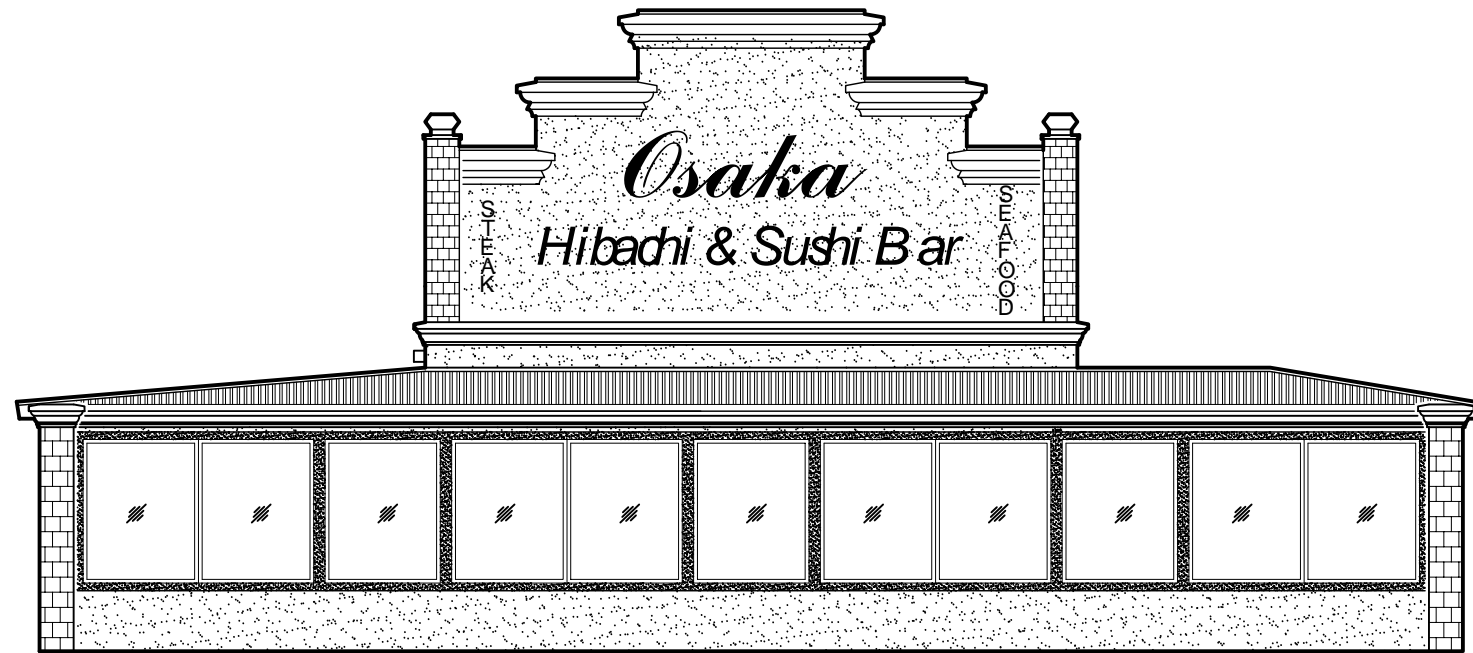


RESTAURANT RENOVATION



OSAKA RESTAURANT 287 S. MORRISON BLVD. HAMMOND, LA

ZONED C-3

TOTAL BUILDING = 5,542 s.f.

EXISTING BUILDING = 2,010 s.f.
ADDITION = 3,532 s.f.

DESIGN CRITERIA:

THE CONSTRUCTION FOR SAID RESIDENCE, WHERE BASIC WIND SPEED IS 110 MILES PER HOUR, IS DESIGNED IN ACCORDANCE WITH: AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WOOD FRAME CONSTRUCTION MANUAL 2001 EDITION AND THE INTERNATIONAL BUILDING CODE (IBC) 2006 EDITION.

BUILDING USE DESCRIPTION:

THIS BUILDING SHALL BE USED FOR NORMAL BUSINESS USE.

INTERNATIONAL BUILDING CODE 2006 REQUIREMENTS

OCCUPANCY CLASSIFICATION:
ASSEMBLY, GROUP A-2 (SEC 303)

OCCUPANT LOAD: (TBL 1004.1.1)
ASSEMBLY = 15 NET / OCCUPANT
3,843 s.f. ASSEMBLY = 256 OCCUPANTS
5,542 s.f. GROSS BUILDING
TOTAL OF 256 OCCUPANTS

EXIT ACCESS REQUIREMENTS: (SEC 1015/1016)
1 EXIT REQUIRED FOR LESS THAN 49 OCCUPANTS IN ASSEMBLY OCCUPANCY (TBL 1015.1) (4 EXITS PROVIDED)
EXIT ACCESS TRAVEL DISTANCE = 200' UNSPRINKLED
EXIT ACCESS TRAVEL DISTANCE = 250' SPRINKLED

ALLOWABLE HEIGHT AND BLDG. AREA: (TBL 503)
ASSEMBLY = 9,500 s.f. 72' STORY ALLOWED, THIS PROJECT 1 STORY 5,542 s.f.

CONSTRUCTION CLASSIFICATION: (SEC 602.2)
TYPE II B

FIRE RESISTANCE RATING REQUIREMENTS FOR BLDG. ELEMENTS: (TBL 601)
STRUCTURAL FRAME = 0 HRS.
BEARING WALLS (INTERIOR AND EXTERIOR) = 0 HRS.
NON-BEARING WALLS = 0 HRS.
FLOOR CONSTRUCTION = 0 HRS.
ROOF CONSTRUCTION = 0 HRS.

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS: (TBL 602)
10 $X \le 30$, $X = 0$ HR.

FIRE ALARM SYSTEM REQUIREMENTS: (SEC 907)
THIS BLDG. DOES NOT REQUIRE A FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 907.2.1, OCCUPANT LOAD LESS THAN 300.

FIRE PROTECTION SYSTEM REQUIREMENTS: (SEC 903)
THIS BLDG. DOES REQUIRE A FIRE PROTECTION SYSTEM IN ACCORDANCE WITH SECTION 903.2.1.2 GROUP A-2

CONSTRUCTION DOCUMENTS: (SEC 1603)
THIS BLDG. SHALL BE DESIGNED IN ACCORDANCE WITH IBC SECTION 1609 AS A FULLY ENCLOSED BLDG. USING THE FOLLOWING INFORMATION:
BASIC WIND SPEED (3 SECOND GUSTS) = 110 MPH (FIG 1609)
IMPORTANCE FACTOR: CATEGORY III BLDG., $IE = 1.00$, $IS = 1.0$, $IW = 1.00$ (TBL 1604.5)
EXPOSURE B, DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.4
MINIMUM LIVE LOADS SHALL BE DETERMINED IN ACCORDANCE WITH TBL 1607.1
GROUND SNOW LOADS = 5 PSF (FIG. 1608.2)

BASED ON THE SURVEY OF THIS PROPERTY PROVIDED BY THE OWNER.
BUILDING IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA. IT IS LOCATED IN FLOOD ZONE X



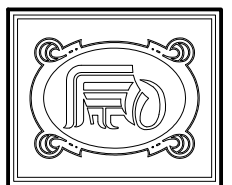
VICINITY MAP
N.T.S.

DWG#	DRAWING NAME	REVISED
C-1	SITE PLAN / LANDSCAPING PLAN	
C-2	UTILITY PLAN	
S-1	FOUNDATION PLAN	
S-2	FOUNDATION NOTES, DETAILS AND SECTIONS	
A-1	DEMO. FLOOR PLAN	
A-2	NEW FLOOR PLAN	
A-3	DETAILS, NOTES & SCHEDULES	
A-4	CROSS SECTION	
A-5	BUILDING ELEVATIONS	
A-6	BUILDING ELEVATIONS	
A-7	ROOF PLAN	
A-8	REFLECTED CEILING PLAN	
A-9	BUILDING DETAILS	
H-1	HANDICAP DETAILS	
H-2	HANDICAP DETAILS	
M-1	MECHANICAL PLAN	
E-1	POWER PLAN	
E-2	LIGHTING PLAN	
E-3	ELECT. NOTES, DETAILS & ELECT. PANELS	
P-1	PLUMBING PLAN	
P-2	PLUMBING DETAILS, SCHEDULES & ONE LINE DIAGRAM	

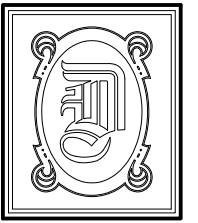
RESTAURANT RENOVATION
OSAKA RESTAURANT
287 S. MORRISON BLVD
HAMMOND, LA

DATE: 7-25-08
JOB NO. 1943

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SHEET 1
OF 22



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RENOVATION

OSAKA
287 S. MORRISON BLVD
HAMMOND, LA

UTILITIES
PLAN

REV:

SCALE: AS NOTED

JOB#: 1943

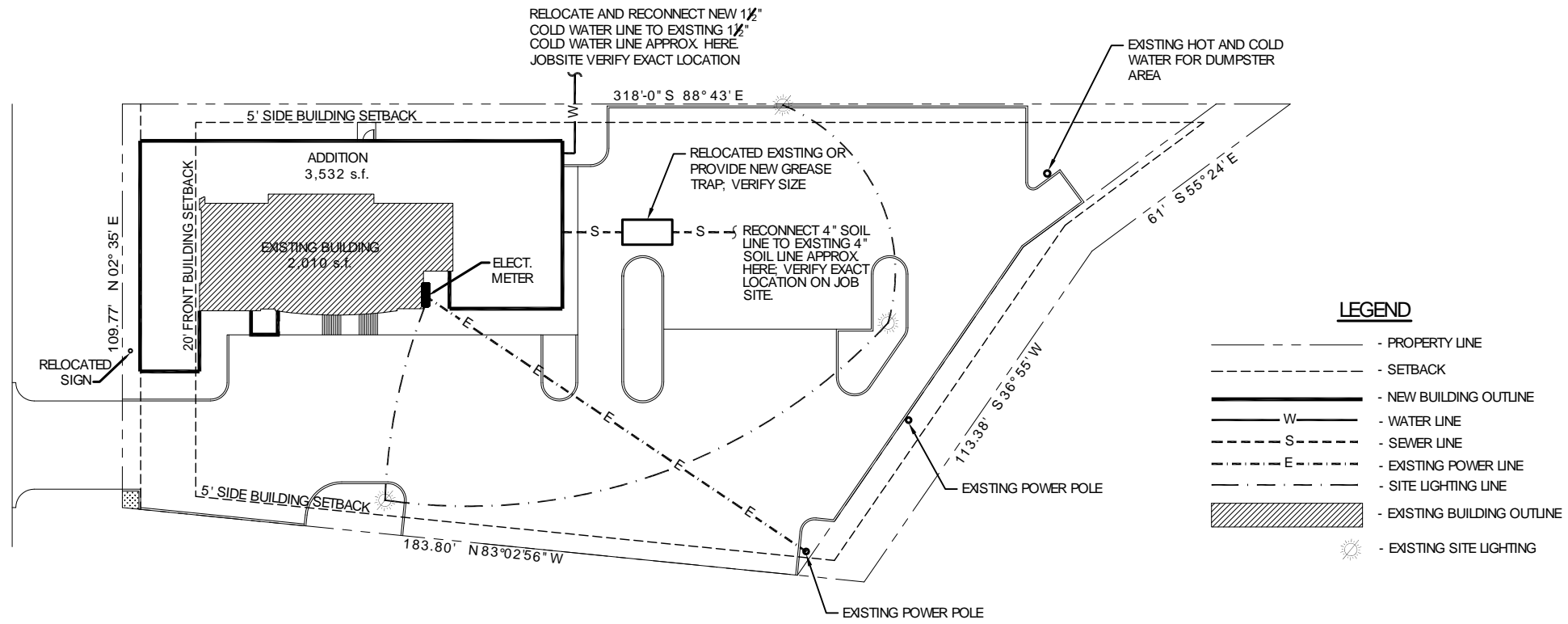
DATE: 7-25-08

SHEET 3

C-2

OF 22

SOUTH MORRISON BLVD.



LEGEND

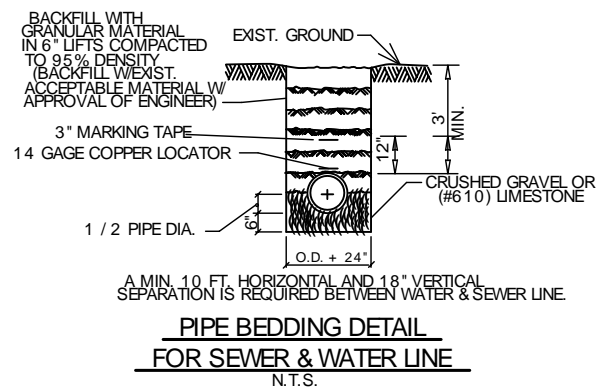
- - - - - PROPERTY LINE
- - - - - SETBACK
- - - - - NEW BUILDING OUTLINE
- W — WATER LINE
- - - - S - SEWER LINE
- - - - E - EXISTING POWER LINE
- - - - - SITE LIGHTING LINE
- ▨ - EXISTING BUILDING OUTLINE
- ☼ - EXISTING SITE LIGHTING

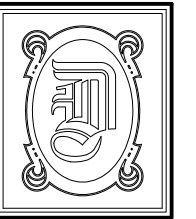
UTILITIES PLAN
SCALE: 1"=20'-0"

ZONED C-3



VICINITY MAP
N.T.S.





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RESTAURANT RENOVATION

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DEMO FLOOR PLAN

REV:

SCALE: AS NOTED

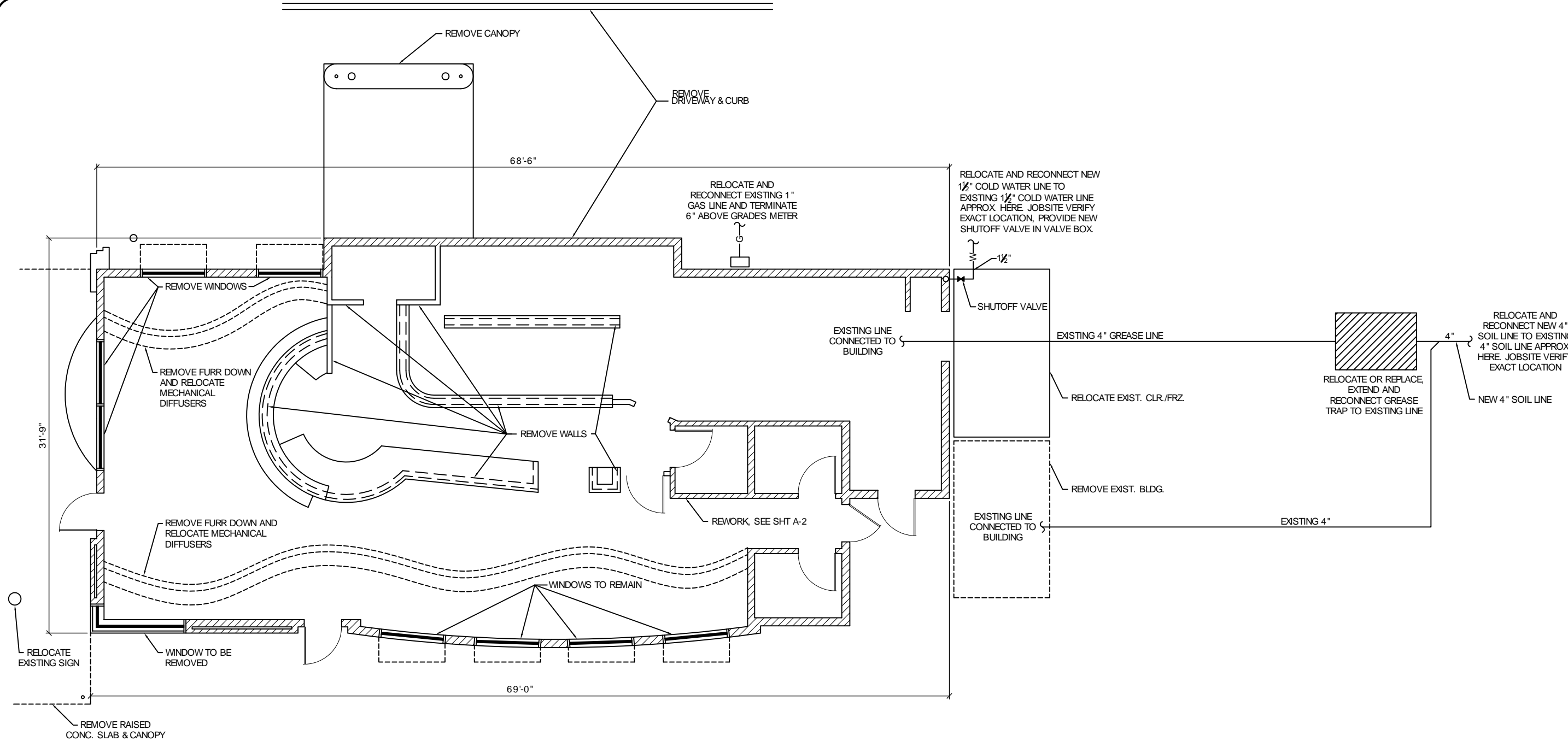
JOB#: 1943

DATE: 7-25-08

SHEET 6

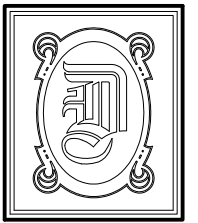
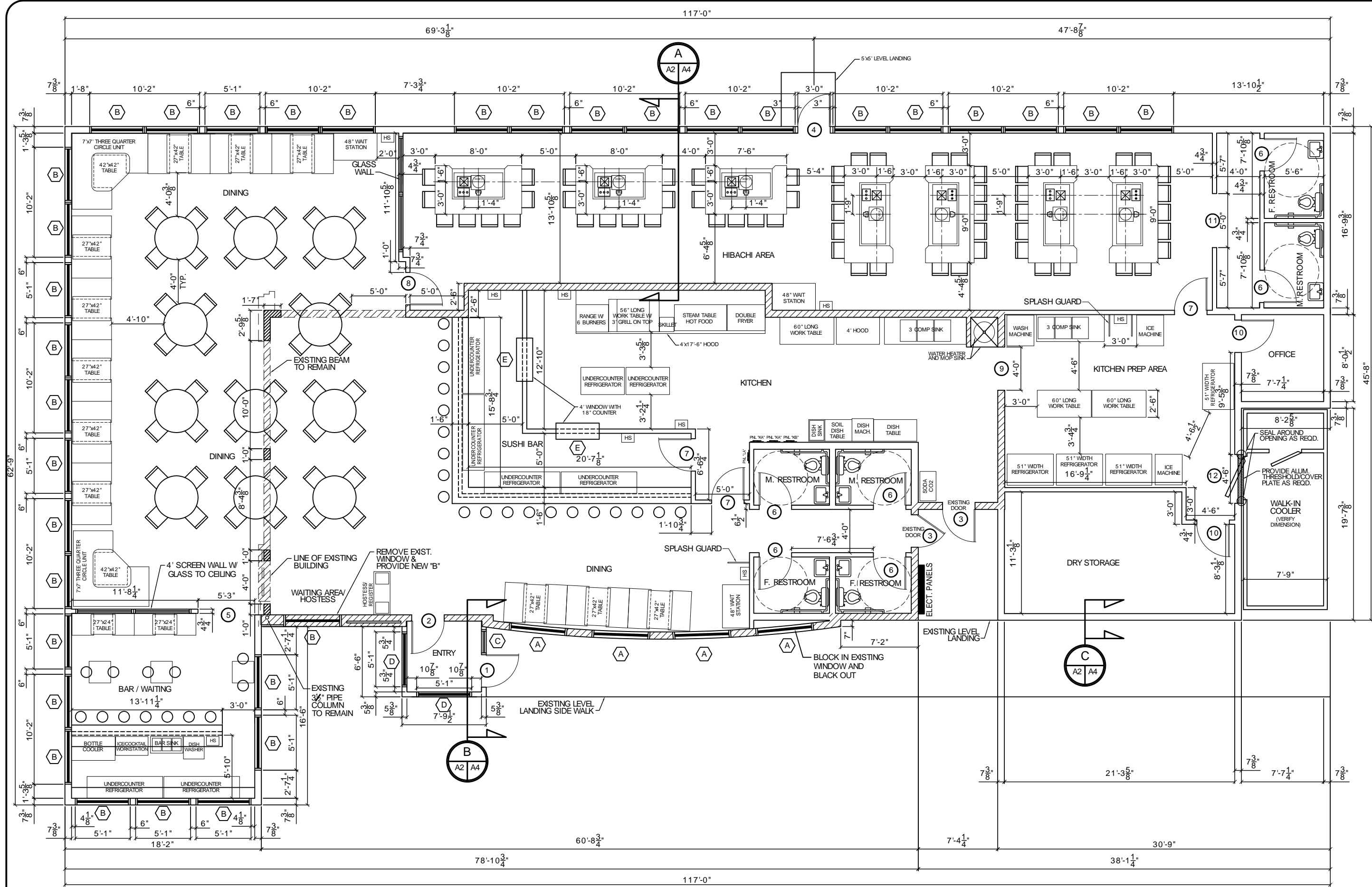
A-1

OF 22



DEMO FLOOR PLAN
SCALE: 1/4" = 1'-0"

EXISTING WALLS TO REMAIN



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NEW FLOOR PLAN

REV:

SCALE: AS NOTED

JOB#: 1943

DATE: 7-25-08

SHEET 7

A-2

OF 22

NEW FLOOR PLAN
SCALE 1/4" = 1'-0"



NOTE
FOR GENERAL NOTES AND FINISH,
WINDOW AND DOOR SCHEDULES
SEE SHEET A-3.

EXISTING WALLS TO REMAIN

GENERAL NOTES

1. INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF SECTION 719.
- A. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-25 AND SMOKE DEVELOPED INDEX OF 0-450. EXCEPT THAT IN COMBUSTIBLE (WOOD FRAME) CONSTRUCTION.
- B. FACING SHALL COMPLY WITH IBC 2006.
2. PROVIDE 5/8" LANDINGS, LEVEL WITH FINISHED FLOOR, OUTSIDE EXTERIOR DOORS. THRESHOLDS SHALL BE NOT MORE THAN 1/2" IN HEIGHT AND SHALL BE BEVELED IF MORE THAN 1/4".
3. DIMENSIONS ARE TO CENTERLINE, FACE OF STUDS, CENTER OF COLUMNS, OR FACE OF VENEER.
4. CONTRACTOR TO VERIFY ALL SITE CONDITIONS, BUILDING LOCATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION.
5. MATERIALS SHALL BE NEW AND U.L. LISTED.
6. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
7. CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE, AND LOCAL CODES.
8. CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR.
9. CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
10. EXTERIOR CAULK SHALL BE DOW CORNING 790 SILICONE, INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. COORDINATE WITH ARCHITECT/OWNER AS TO COLOR. INTERIOR CAULKING TO BE EQUAL TO DAP PAINTABLE LATEX WITH SILICONE.
11. PAINT GRADE TO SHALL BE SHERWIN WILLIAMS OR EQUIVALENT. ALL WORK TO RECEIVE 3 COATS. COLOR SELECTION BY OWNER.
12. PROVIDE CLEANUP ON A REGULAR BASIS. NO TRASH STORED IN BUILDING.
13. ALL BATT INSULATION SHALL HAVE A CLASS "A" (0-25) FLAME SPREAD IN COMPLIANCE WITH APPLICABLE CODE.
14. USE 6" STUDS, OR 4" STAGGERED STUDS AT ALL PLUMBING WALLS.
15. PROVIDE GALVANIZED METAL PAN WITH DRAIN AT WATER HEATER LOCATION.
16. ALL CORNERS SHALL BE PROPERLY BRACED FOR WIND LOADS. A 48" SHEATHING SHALL BE PROVIDED EVERY 20 FEET OF WALL LENGTH.
17. FLOORING SHALL BE NON-SLIP.
18. INTERIOR LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL DEVICE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.
19. INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450.
20. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES COVERING THE TYPE OF WORK BEING PERFORMED.
21. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 101. SEE APPENDIX "E" OF NFPA 101 FOR DISTRIBUTION OF EXTINGUISHERS.
22. ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF SHEATHING, AND BE SEALED WITH AN APPROVED FIRE CAULK.
23. ALL ELECTRICAL, MECHANICAL, AND PLUMBING MATERIALS PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
24. SERVICE COUNTER SHALL HAVE A HCP ACCESSIBLE WRITING SURFACE, MAX. 36" FROM F.F. (ADAAG MANUAL 1998, PG 135)

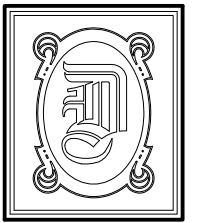
WINDOW SCHEDULE												
WINDOW	TYPE	FRAME	GLASS	UTES	ACCESSORIES	REMARKS						
A 5/0x5/0	S. HUNG	ALUMINUM	CASED OPENING			EXISTING						
B 5/0x6/0	D. HUNG	ALUMINUM	TINTED LOW E									
C 2/0x6/0	PLAIN	ALUMINUM	TEMPERED									
D 5/0x5/0	INSUL. LOW E	ALUMINUM	INSUL. LOW E									
E 4/0x4/0						W/ 18" COUNTER						

FINISH SCHEDULE					
NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
OFFICES	CARPET	CONCRETE	GYPSUM BOARD	TRP	
BATHROOMS	2"x2" PORCELAIN TILE	QUARRY TILE	GYPSUM BOARD	2"x2" LAY-IN PANELS	CHAIR RAIL @ W.S.
KITCHEN	CERAMIC TILE	CERAMIC TILE	GYPSUM BOARD	GYPSUM BOARD	MATCH & ADD AS REQD.
DINING/HIBACHI AREA	CERAMIC TILE	RUBBER WALL BASE	WOOD BASE	WYNILE WALL FAB. W.S.	
ENTRY/BAR/WAITING	CERAMIC TILE	WOOD BASE	WOOD BASE	GYPSUM BOARD	

- OWNER TO SELECT STYLE, COLOR, AND BRAND
- PROVIDE MOISTURE RESISTANT TYPE GYP. BD. IN ALL DAMP AREAS.
 - REMOVE EXISTING VCT AS REQD.

DOOR & HARDWARE SCHEDULE										
DOOR - EXTERIOR	TYPE	FRAME	HINGE	LOCK	ACCESSORIES	REMARKS				
1 3/0x8/0	SOLID WOOD	ALUMINUM	DBL SWING	KEYED HANDLE	WEATHERSTRIP	W/ 12" TRANSOM ABOVE				
2 3/0x7/0	HOLLOW METAL	ALUMINUM	DBL SWING	KEYED HANDLE	WEATHERSTRIP	EXISTING, UPDATE AS REQD.				
3 3/0x6/8	SLIDING	ALUMINUM	DBL SWING	KEYED HANDLE	WEATHERSTRIP					
4 3/0x6/8	STOREFRONT	ALUMINUM	DBL SWING	KEYED HANDLE	WEATHERSTRIP					
DOOR - INTERIOR										
5 5/6										
6 3/0x6/8						REPLACE EXIST. 2/10x6/8 W/ NEW 3/0x6/8 DOOR				
7 3/0x6/8										
8 3/0x6/8										
9 4/0						EXISTING CASED OPENING				
10 3/0x6/8										
11 5/0						CASED OPENING				
12 4/6						VERIFY SIZE, CASED OPENING, SEE NOTES ON PLAN				

- DOOR & HARDWARE NOTES:
1. ALL GLAZING TO BE LAMINATED SAFETY GLASS.
 2. DOOR HINGES TO BE STANLEY FULL MORTISE STANDARD WEIGHT, BALL BEARING HINGES, STAINLESS STEEL WITH DARK BRONZE FINISH @ EXTERIOR & MATCHING DARK BRONZE FINISH ON STANDARD STEEL @ INTERIOR.
 3. PROVIDE LEVER HANDLE ADA APPROVED LOCKSETS WITH MATCHING DARK BRONZE FINISH, TO BE SELECTED BY OWNER.
 4. COORDINATE KEYING SCHEDULE WITH OWNER.
 5. DOOR STOPS TO BE EQUAL TO IVES No. 436 OR 437, AS REQUIRED IN MATCHING DARK BRONZE FINISH.
 6. WEATHER-STRIP & THRESHOLD FINISH TO COMPLEMENT OTHER HARDWARE.



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RESTAURANT RENOVATION

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HAMMOND, LA

DETAILS, NOTES AND SCHEDULES

REV:

SCALE: AS NOTED

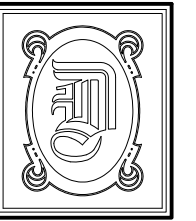
JOB#: 1943

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SHEET 8

A-3

OF 22



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RESTAURANT RENOVATION

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CROSS SECTION

REV:

SCALE: AS NOTED

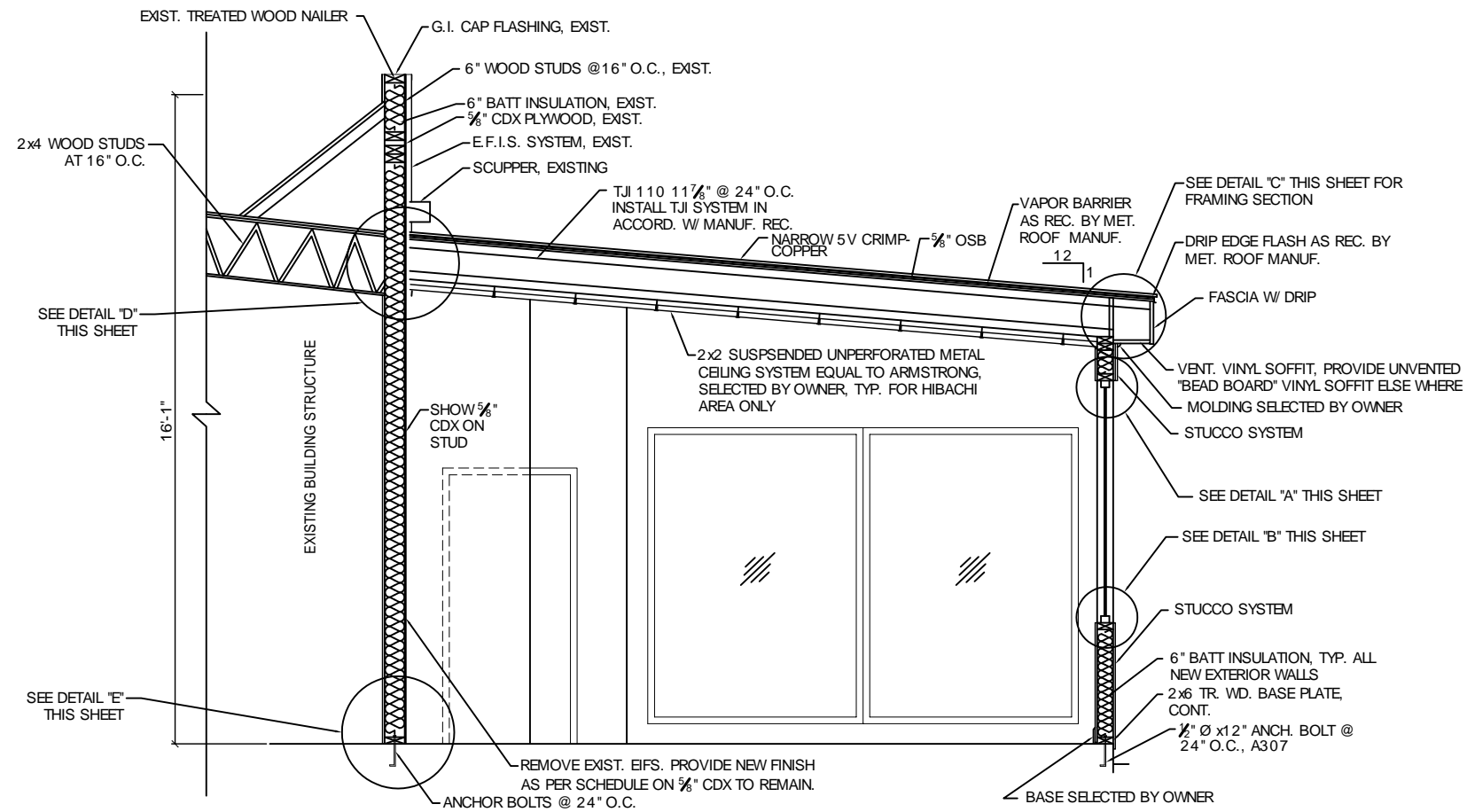
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DATE: 7-25-08

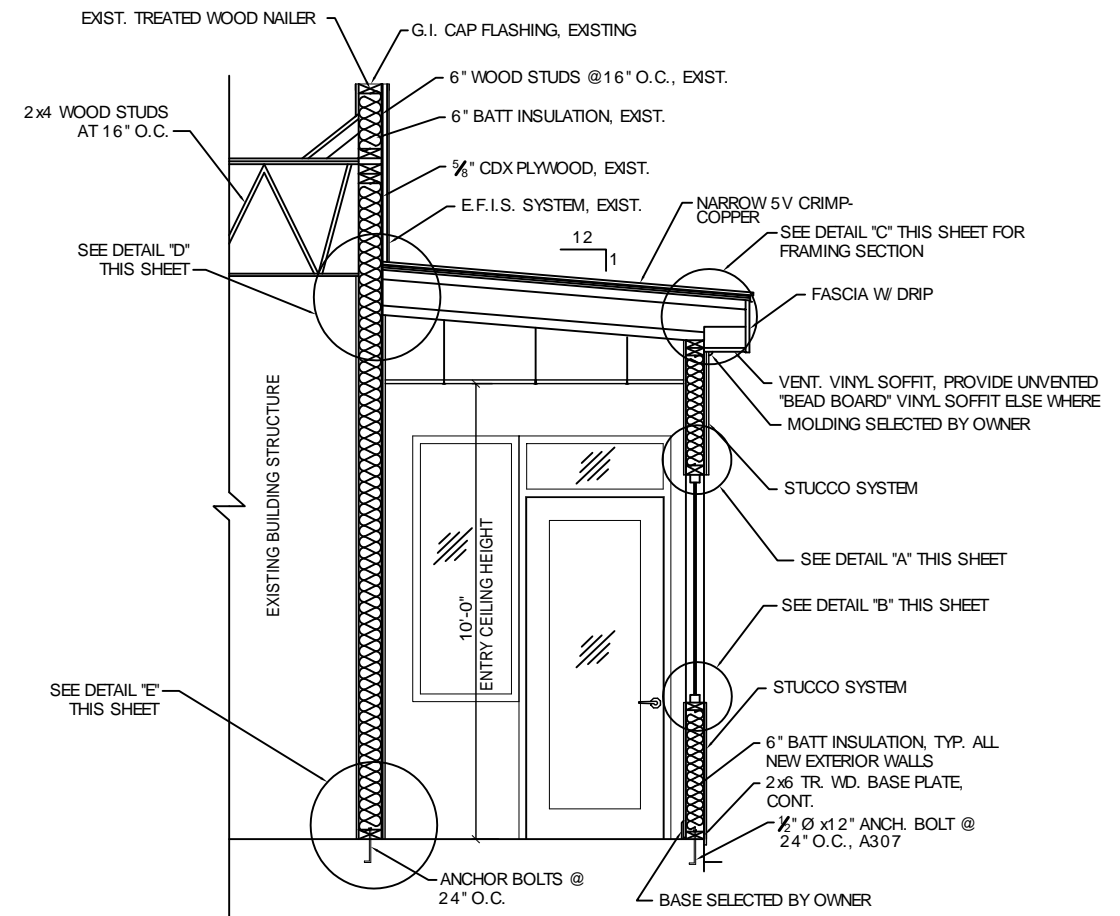
SHEET 9

A-4

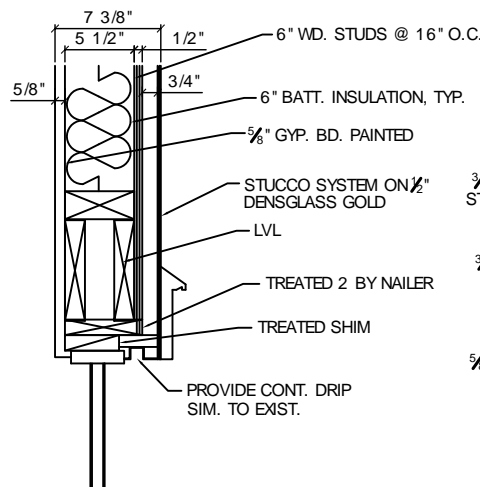
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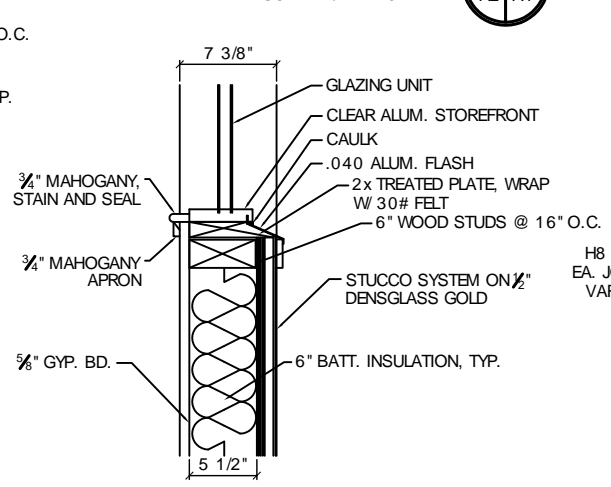
CROSS SECTION A
SCALE: 1/2" = 1'-0"



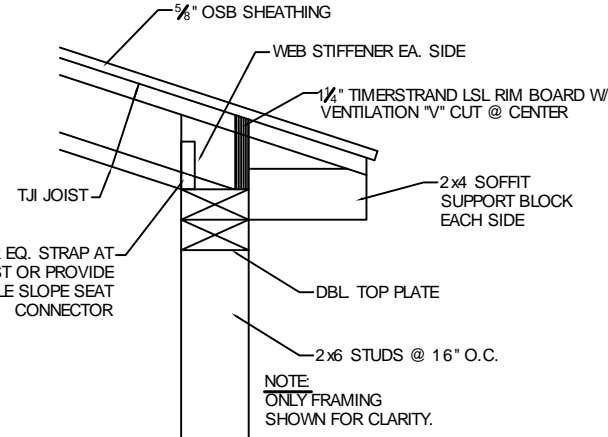
CROSS SECTION B
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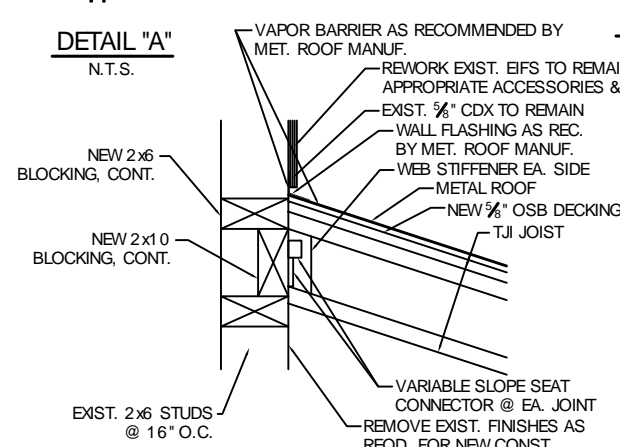
DETAIL "A"
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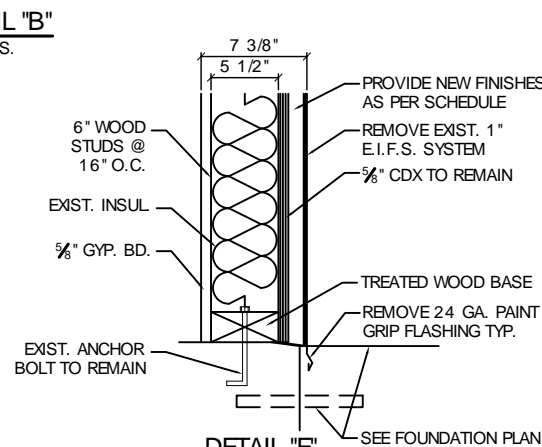
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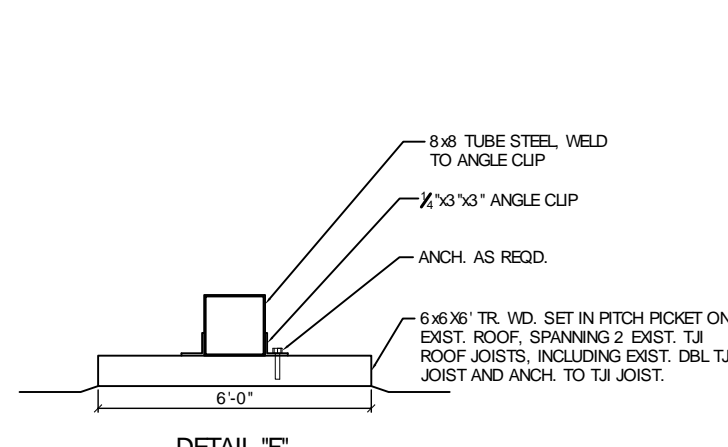
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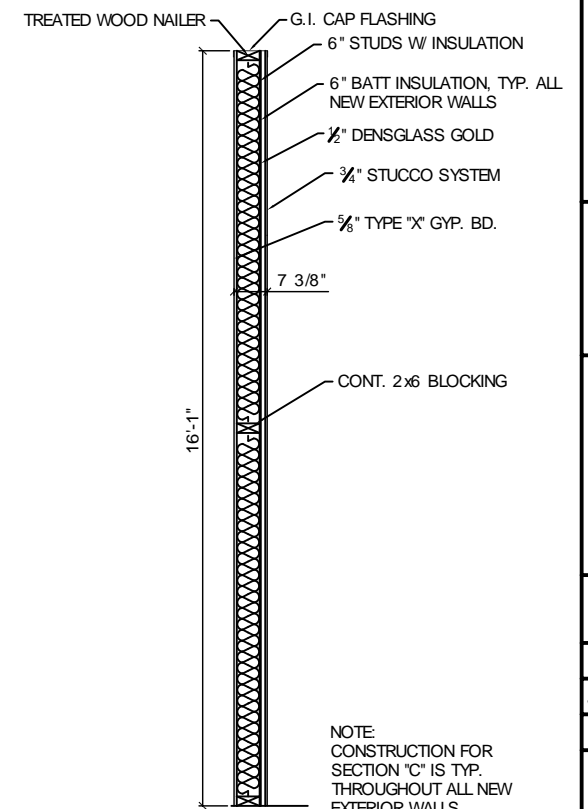
DETAIL "D"
N.T.S.



DETAIL "E"
N.T.S.

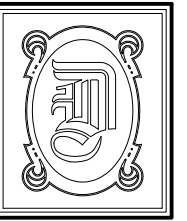


DETAIL "F"
N.T.S.



CROSS SECTION C
SCALE: 1/2" = 1'-0"

NOTE:
CONSTRUCTION FOR SECTION "C" IS TYP. THROUGHOUT ALL NEW EXTERIOR WALLS.



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**BUILDING
ELEVATIONS**

REV:

SCALE: AS NOTED

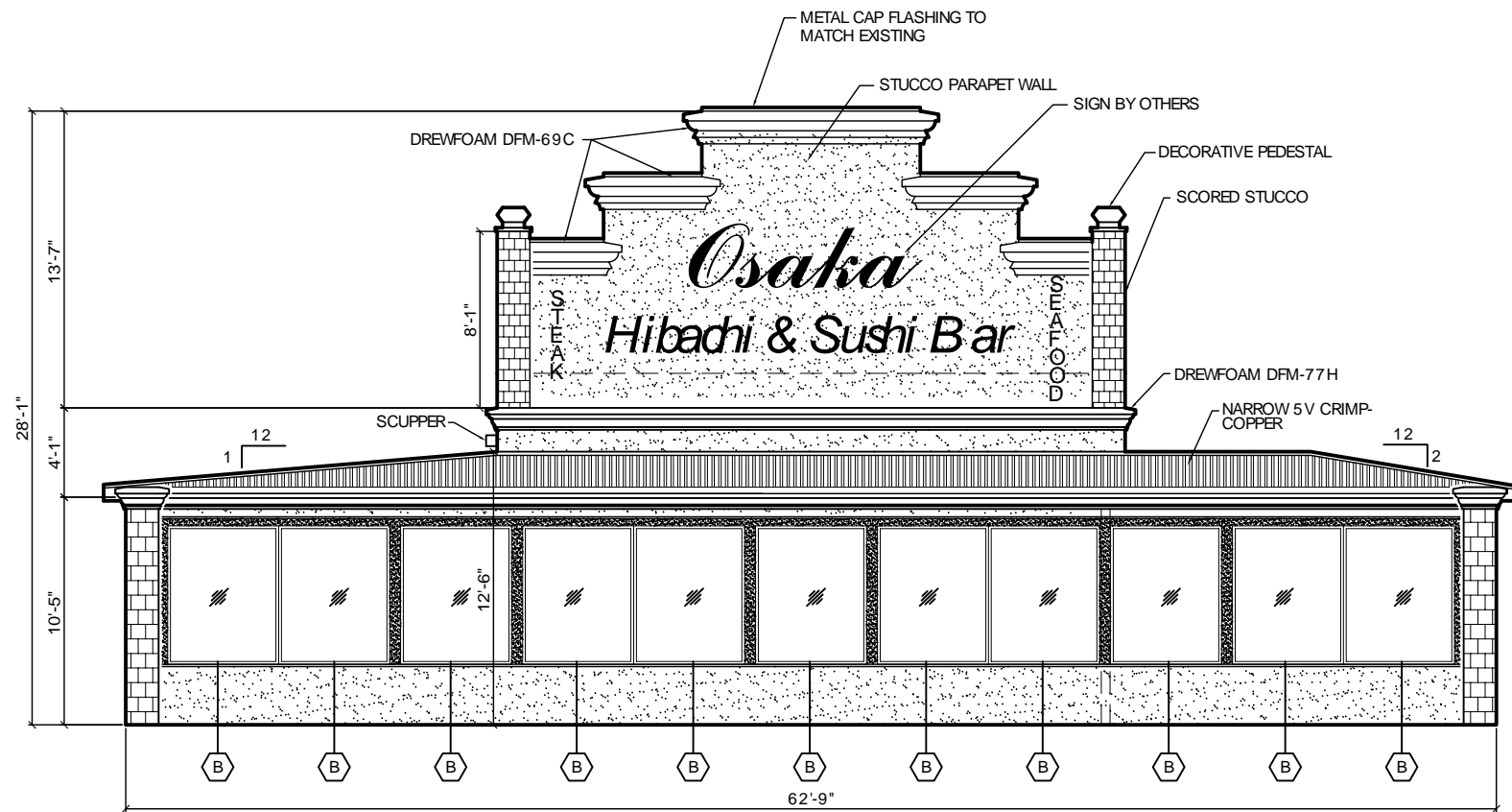
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DATE: 7-25-08

SHEET 10

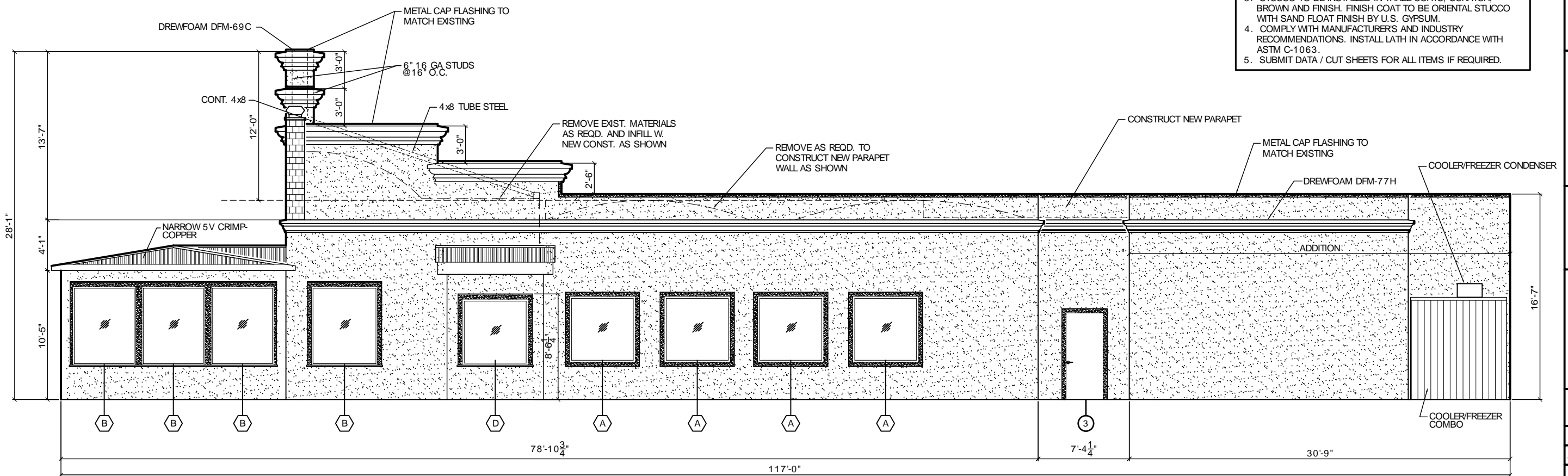
A-5

OF 22

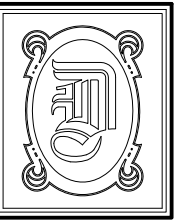


FRONT ELEVATION
SCALE: 1/4" = 1'-0"

- EXTERIOR STUCCO SPECIFICATIONS:**
1. COMPLY WITH ASTM C-841 AND C-842. PROVIDE 3/4" OVERALL THICKNESS ON SELF-FURRING DIAMOND MESH GALVANIZED METAL LATH, 3.4 LB. PER SQUARE YARD, ON "TYVEK" STUCCO WRAP. ATTACH LATH AT "DIMPLES" ONLY, WITH NON-CORROSIVE SCREWS.
 2. METAL LATH AND ALL ACCESSORIES TO BE EQUAL TO "AMICO", TO INCLUDE CORNER BEADS, CASING BEADS, BASE SCREEDS AND CONTROL JOINTS, ALL INSTALLED WITH NON-CORROSIVE SCREWS. ALL ACCESSORIES TO BE ZINC. ALL CORNERS TO BE MITERED.
 3. STUCCO TO BE INSTALLED IN THREE COATS: SCRATCH, BROWN AND FINISH. FINISH COAT TO BE ORIENTAL STUCCO WITH SAND FLOAT FINISH BY U.S. GYPSUM.
 4. COMPLY WITH MANUFACTURER'S AND INDUSTRY RECOMMENDATIONS. INSTALL LATH IN ACCORDANCE WITH ASTM C-1063.
 5. SUBMIT DATA / CUT SHEETS FOR ALL ITEMS IF REQUIRED.



RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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OSAKA
287 S. MORRISON BLVD
HAMMOND, LA

**BUILDING
ELEVATIONS**

REV:

SCALE: AS NOTED

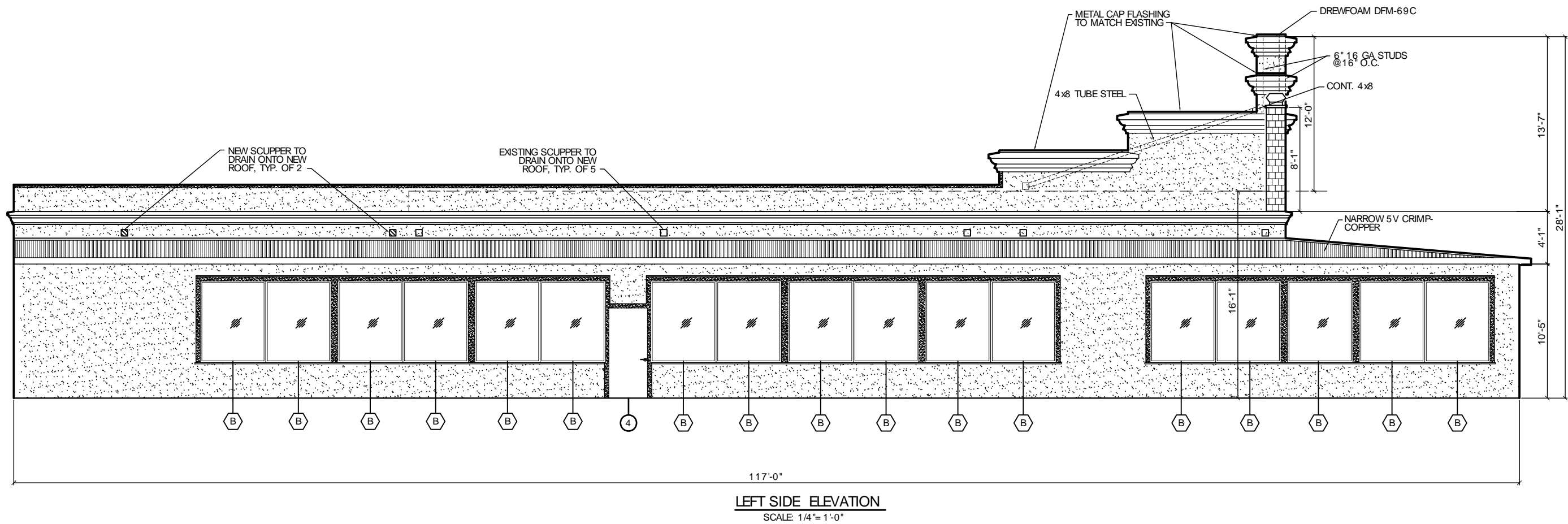
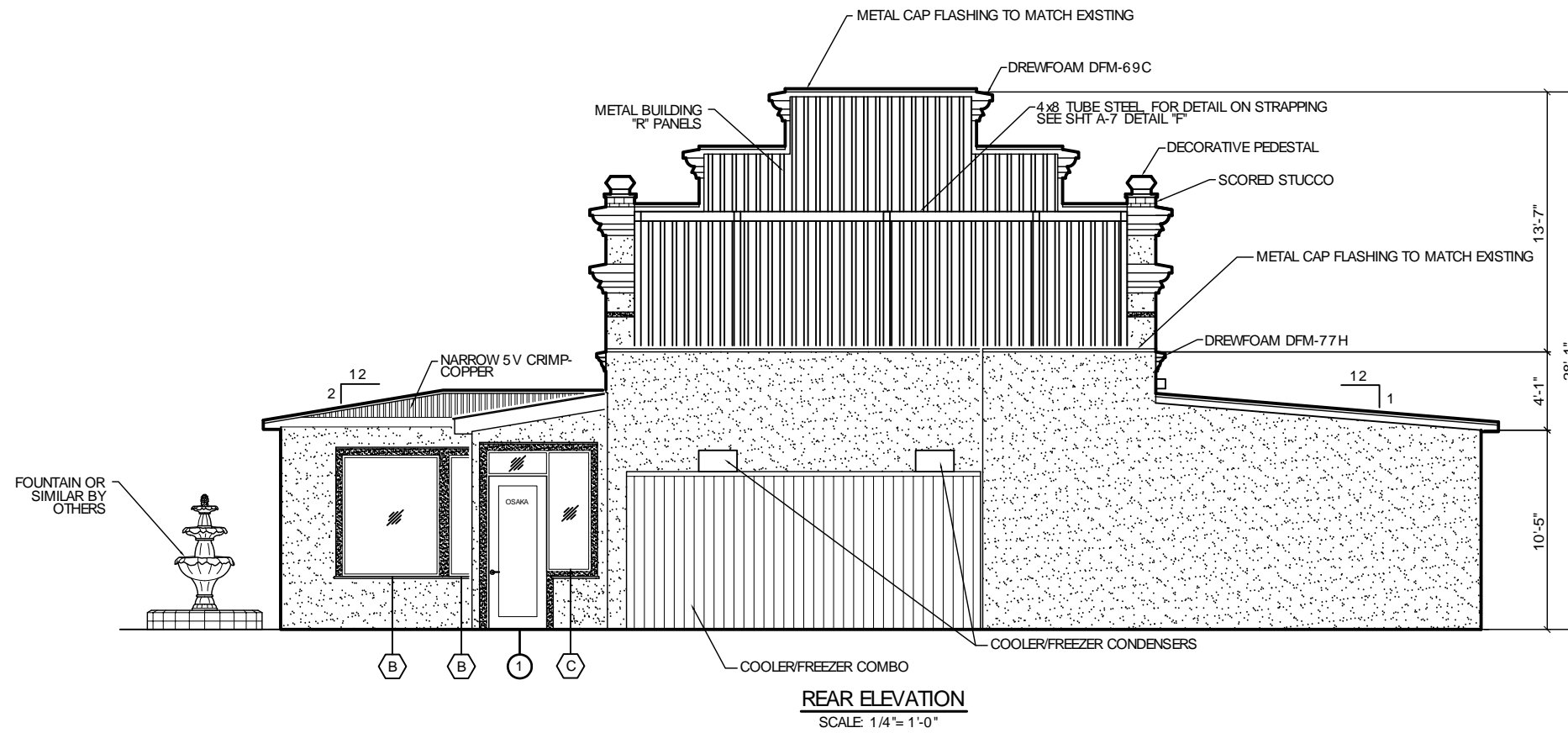
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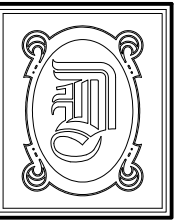
DATE: 7-25-08

SHEET 11

A-6

OF 22





DAMMON ENGINEERING, INC.

CHIEF ENGINEER
EMMETT
DAMMON, P.E.

CHIEF ARCHITECT
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- ARCHITECTURE
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- EXPERT WITNESS

RESTAURANT RENOVATION

OSAKA
287 S. MORRISON BLVD
HAMMOND, LA

ROOF PLAN

REV:

SCALE: AS NOTED

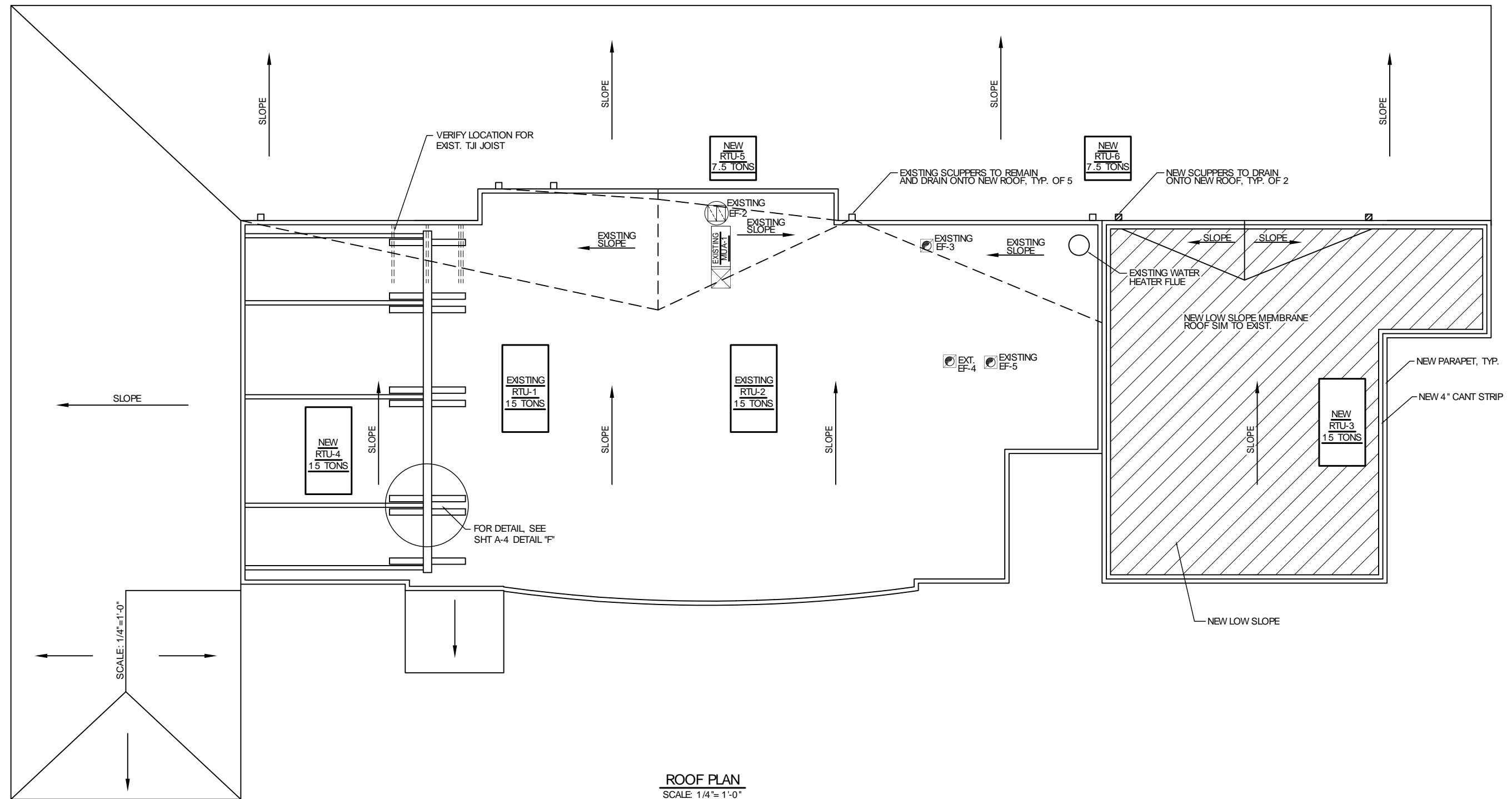
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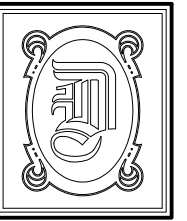
SHEET 12

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OF 22



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



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**RESTAURANT
RENOVATION**

OSAKA
287 S. MORRISON BLVD
HAMMOND, LA

**REFLECTED
CEILING PLAN**

REV:

SCALE: AS NOTED

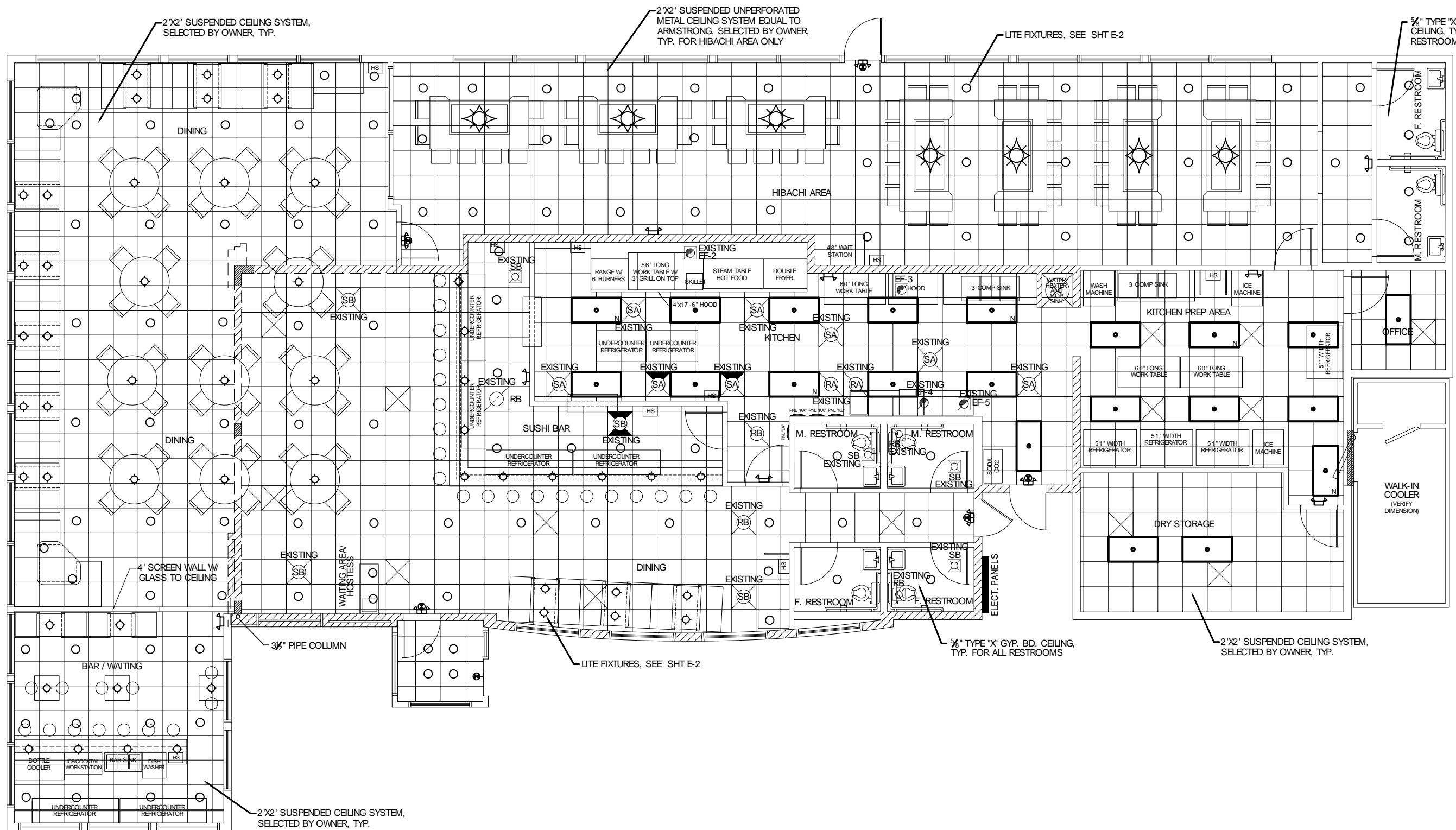
JOB#: 1943

DATE: 7-25-08

SHEET 13

A-8

OF 22



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



NOTE:
SEE SYMBOL
SCHEDULE SHEET M-1

EXISTING WALLS TO REMAIN

HEADER SPANS-FOR INT. LOADBEARING WALLS				
HEADER SUPPORTING	SIZE	BLDG. WIDTH (ft.)		
		12	24	36
ONE FLOOR (CENTER BEARING)	2x12 S	4'-4"	3'-1"	2'-6"
	2x12 S	8'-5"	4'-6"	3'-8"
	2x12 S	8'-1"	5'-9"	4'-8"
	2x10 S	9'-11"	7'-0"	5'-9"
	2x12 S	11'-6"	8'-1"	6'-7"
	2x12 S	10'-2"	7'-2"	5'-10"
	2x10 S	12'-5"	8'-9"	7'-2"
	2x12 S	14'-4"	10'-2"	8'-3"
	2x12 S	11'-6"	8'-3"	6'-9"
	2x10 S	14'-4"	10'-1"	8'-3"
2 FLOORS ONLY (CENTER BEARING)	2x12 S	4'-4"	3'-1"	2'-6"
	2x12 S	8'-5"	4'-6"	3'-8"
	2x12 S	8'-1"	5'-9"	4'-8"
	2x10 S	9'-11"	7'-0"	5'-9"
	2x12 S	11'-6"	8'-1"	6'-7"
	2x12 S	10'-2"	7'-2"	5'-10"
	2x10 S	12'-5"	8'-9"	7'-2"
	2x12 S	14'-4"	10'-2"	8'-3"
	2x12 S	11'-6"	8'-3"	6'-9"
	2x10 S	14'-4"	10'-1"	8'-3"

* MAX. SPAN EXCEEDS 16' (SPANS LIM. TO 16')

NOTE:
ALL HEADERS SHALL HAVE SOLID BLOCKING

HEADER SPANS-EXPOSURE B FOR EXTERIOR LOADBEARING WALLS			
HEADER SIZE	SPAN	NO. FULL HGT. STUDS REQ. AT EA. END	
2x12 S	4'-7"	2	
2x12 S	5'-6"	2	
2x12 S	6'-1"	3	
2x10 S	6'-8"	3	
2x12 S	7'-1"	3	
2x12 S	7'-5"	3	
2x10 S	8'-3"	3	
2x12 S	8'-8"	3	
2x12 S	8'-7"	3	
2x10 S	9'-6"	3	
2x12 S	10'-0"	4	

130 MPH WINDS-EXPOSURE "B" (TYP.) EACH W/ 1/2" PLYM. SPACER BETWEEN

NOTE:
BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE SHOWN, SPANS ARE PERMITTED TO BE INTERPOLATED.

NOTE:
ALL HEADERS SHALL HAVE SOLID BLOCKING

HEADER NAILING SCHEDULE			
DESCRIPTION	NUM. OF COM. NAILS	NUM. OF BOX NAILS	SPACING
HEAD. TO HEAD. (FACE-NAILED)	8d	10d	6" O.C. EDGES/ 12" O.C. FIELD

NOTE:
ALL HEADERS SHALL HAVE SOLID BLOCKING

WALL SHEATH. OR CLAD. REQ. FOR WIND LOAD-EXP. B			
SHEATHING LOCATION	STUD SPAC.	E F	
		MAX. NAIL SPAC. FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	
INTERIOR ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12

130 MPH WINDS-EXPOSURE "B" (TYP.)

SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING UPLIFT LOADS-130MPH WINDS EXP. "B"			
BOTTOM PLATE TO FND. ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in.)	
		8' END ZONES	INTERIOR ZONES
UPLIFT LOADS	1-3 STORES	28	33

SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING SHEAR LOADS-130MPH WINDS EXP. "B"			
BOTTOM PLATE TO FND. ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in.)	
		1/2" ANC. BOLTS	5/8" ANC. BOLTS
SHEAR LOADS	1-3 STORES	30	45

JACK STUD REQUIREMENTS-FOR INTERIOR LOADBEARING WALLS												
HEADER SUPPORTING	HEADER SPAN (ft.)	ROOF SPAN (ft.)										
		12 FEET				24 FEET				36 FEET		
		3"	4.5"	5"	6.5"	3"	4.5"	5"	6.5"	3"	4.5"	5"
NO. JACK STUDS REQ.												
ROOF AND CEILING	2	1	1	1	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1	1	1	1
	6	1	1	1	1	1	1	1	1	1	1	1
	8	1	1	1	1	2	1	1	1	2	2	2
	10	1	1	1	1	2	2	1	1	3	2	2
	12	1	1	1	1	2	2	2	1	3	2	2
	14	2	1	1	1	3	2	2	2	4	3	3
	16	2	1	1	1	3	2	2	2	4	3	3
	2	1	1	1	1	1	1	1	1	2	1	1
	4	1	1	1	1	2	1	1	1	3	2	2
ROOF, CEILING, AND 1 CENTER BEARING FLR.	6	2	1	1	1	3	2	2	2	4	3	3
	8	2	2	1	1	3	2	2	5	3	3	
	10	2	2	2	1	4	3	3	2	6	4	4
	12	3	2	2	2	5	3	3	3	7	5	4
	14	3	2	2	2	5	4	3	3	8	5	4
	16	4	3	2	2	6	4	4	3	9	6	5

HEADER WIDTH-3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH W/ 1/2" PLYM. SPACER BETWEEN

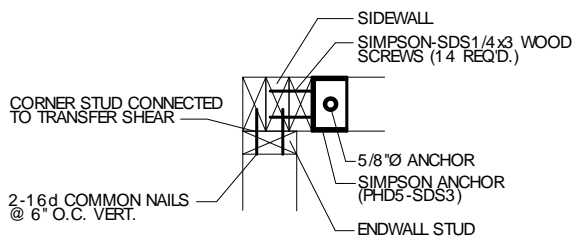
JACK STUD REQ.-EXP. B FOR EXT. LOADBEARING WALLS					
HEADER SUPPORTING	HEADER SPAN (ft.)	HEADER WIDTH			
		3"	4.5"	5"	6.5"
ROOF AND CEILING	2	1	1	1	1
	4	1	1	1	1
	6	2	1	2	2
	8	2	2	2	2
	10	3	2	2	2
	12	3	2	2	2
	14	4	3	2	2
	16	4	3	3	2
	2	1	1	1	1
	4	2	1	1	1
ROOF, CEILING, AND 1 CENTER BEARING FLR.	6	2	2	2	1
	8	3	2	2	3
	10	4	3	2	2
	12	4	3	3	2
	14	5	3	3	3
	16	5	4	3	3

HEADER WIDTH-3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH W/ 1/2" PLYM. SPACER BETWEEN

DESIGN CRITERIA:
THE CONSTRUCTION FOR SAID RESIDENCE WHERE BASIC WIND SPEED IS 130 MILES PER HOUR, IS DESIGNED IN ACCORDANCE WITH AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (WFCM) 2001 EDITION AND THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2006 EDITION.

ROOF SHEATH. OR CLAD. REQ. FOR WIND LOAD-EXP. B			
SHEATHING LOCATION	RAFTER/TRUSS SPAC.	E F	
		MAX. NAIL SPAC. FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	
INTERIOR ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12

130 MPH WINDS-EXPOSURE "B" (TYP.)



CORNER HOLDDOWN DETAIL
N.T.S.

HOLDDOWNS ARE REQUIRED AT THE END OF EACH SEGMENTED SHEARWALL SEGMENT OR AT THE EACH END OF A PERFORATED SHEARWALL. WHEN FULL HEIGHT SHEARWALL SEGMENTS MEET AT A CORNER, A SINGLE HOLDDOWN SHALL BE PERMITTED TO BE USED TO RESIST THE OVERTURNING FORCES IN BOTH DIRECTIONS WHEN THE CORNER FRAMING IN THE ADJOINING WALLS IS FASTENED TOGETHER TO TRANSFER THE UPLIFT LOAD. SEE TYP. HOLDDOWN DETAIL 5.

UPLIFT CONNECTIONS-130MPH WINDS EXP. "B"

CONNECTION	FRAMING SPACING (in.)	ROOF SPAN (ft.)	U	L	S	NUM. OF 8d COM. NAILS OR 10d BOX NAILS IN EA. END OF 1-1/4"x20 GA. STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R	4
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R	4
WALL ASSEMBLY TO FOUNDATION	16" O.C.	17	170	185	436	4

THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)					
MAX. GLAZING U-FACTOR	MINIMUM INSULATION R-VALUE				
	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R-26	R-13	R-11	R-5	R-5

UPLIFT CONNECTIONS

ROOF ASSEMBLY TO WALL ASSEMBLY:
UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD. WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

WALL ASSEMBLY TO WALL ASSEMBLY:

STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD. WHEN UPPER STORY WALL STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

WALL ASSEMBLY TO FOUNDATION:

FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL PLATE, OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" x 20 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES IN CONCRETE FOUNDATIONS AND SLABS-ON-GRADE, 15 INCHES IN MASONRY BLOCK FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE, 3 INCH SQUARE WASHERS SHALL BE USED ON THE ANCHOR BOLTS AND ANCHOR BOLT SPACINGS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH SLAB-ON-GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT-DIPPED GALV. AFTER FABRICATION, OR MANUF. FROM G185 OR Z450 GALV. STL. CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

ROOF UNDERLAMENT APPLICATION

FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZ (33-PERCENT SLOPE), UNDERLAMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:

APPLY A 19 INCH STRIP OF UNDERLAMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36 INCH WIDE SHEETS OF UNDERLAMENT, OVERLAPPING SUCCESSIVE SHEETS 19 INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.

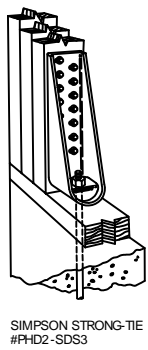
FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:

UNDERLAMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

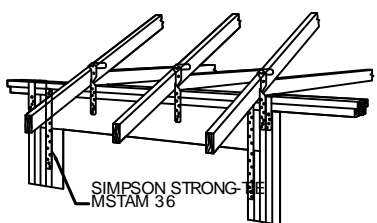
SHINGLE APPLICATION/FASTENING

ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:

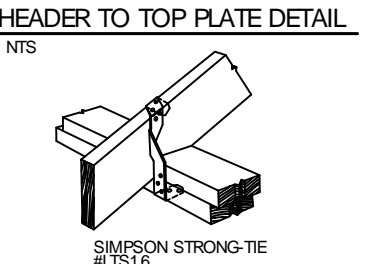
- THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
- THE BASIC WIND SPEED IS 120 MPH OR GREATER.
- SPECIAL WIND ZONES.



SIMPSON STRONG-TIE #PHD2-SDS3



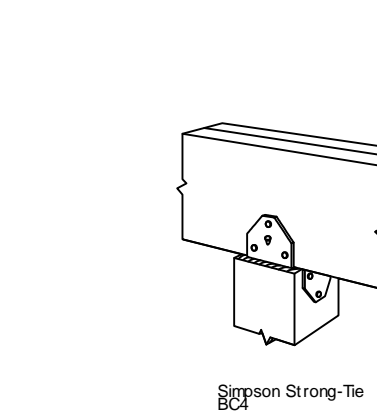
HEADER TO TOP PLATE DETAIL
NTS



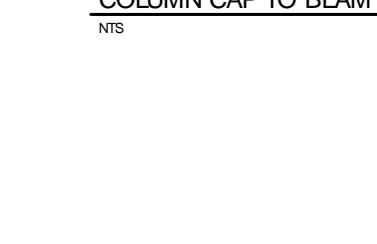
TOP PLATE TO RAFTER DETAIL
NTS



COLUMN CAP TO BEAM DETAIL
NTS



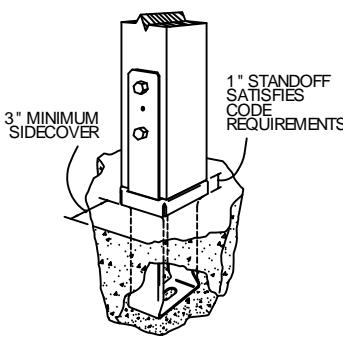
STUD TO TOP PLATE DETAIL
NTS



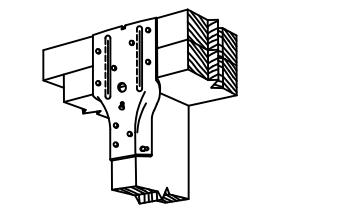
STUD TO SOLE PLATE DETAIL
NTS

WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS			
FASTENER TYPE	FASTENER SPACING		
	PANEL SPAN < 4 FOOT	4 FOOT PANEL SPAN < 6 FOOT	6 FOOT PANEL SPAN < 8 FOOT
2-1/2" #6 WOOD SCREWS	16"	12"	9"
2-1/2" #8 WOOD SCREWS	16"	16"	12"

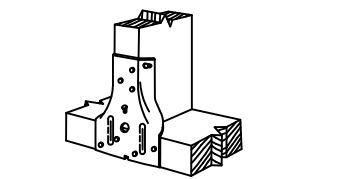
WINDOWS IN BUILDINGS LOCATED IN WIND BORNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WINDBORNE DEBRIS. WOOD STRUCTURAL PANELS WITH A MIN. THICKNESS OF 7/16" AND A MAX. SPAN OF 8 FEET SHALL BE PERMITTED FOR OPENING PROTECTION IN ONE AND TWO STORY BUILDINGS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED.



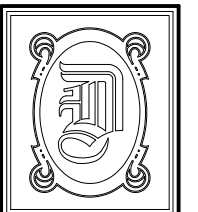
COLUMN TO FOUNDATION DETAIL
NTS



STUD TO TOP PLATE DETAIL
NTS



STUD TO SOLE PLATE DETAIL
NTS



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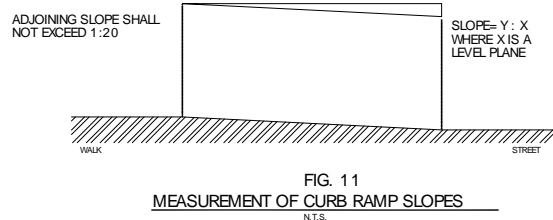
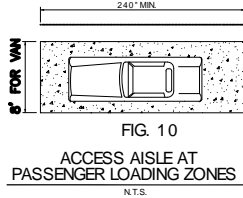
SHEET 14

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OF 22

4.6 PARKING AND PASSENGER LOADING ZONES.

- 4.6.1 MINIMUM NUMBER. PARKING SPACES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.2 THROUGH 4.4. PASSENGER LOADING ZONES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.5 AND 4.6.5.
- 4.6.2 LOCATION. ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE ENTRANCE SHALL BE THE SHORTEST ACCESSIBLE ROUTE. ADJACENT PARKING WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES.
- 4.6.3 PARKING SPACES. PARKING SPACES FOR DISABLED PEOPLE SHALL BE AT LEAST 9'6" (2.93m) WIDE AND SHALL HAVE AN ADJACENT ACCESS AISLE AT LEAST 5'0" (1.52m) WIDE MINIMUM. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE AND SHALL COMPLY WITH 4.1.3. ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.



EXCEPTION: IF ACCESSIBLE PARKING SPACES FOR VANS DESIGNED FOR HANDICAPPED PERSONS ARE PROVIDED, EACH SHOULD HAVE AN ADJACENT ACCESS AISLE AT LEAST 9'6" (2.93m) WIDE COMPLYING WITH 4.5. GROUND AND FLOOR SURFACES.

4.6.4 SIGNAGE. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR THE DISABLED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY (SEE 4.30.5). SUCH SIGNS SHALL NOT BE OBLSCURED BY A VEHICLE PARKED IN THE SPACE.

4.6.5 PASSENGER LOADING ZONES. PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESS AISLE AT LEAST 6'0" (1.83m) WIDE AND 2'0" (610mm) LONG ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE (SEE FIG. 10). IF THERE ARE CURBS BETWEEN THE ACCESS AISLE AND THE VEHICLE PULL-UP SPACE, THEN A CURB RAMP COMPLYING WITH 4.7 SHALL BE PROVIDED. VEHICLE STANDING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

4.6.6 VERTICAL CLEARANCE. PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESS AISLE AT LEAST 6'0" (1.83m) WIDE AND 2'0" (610mm) LONG ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE (SEE FIG. 10). IF THERE ARE CURBS BETWEEN THE ACCESS AISLE AND THE VEHICLE PULL-UP SPACE, THEN A CURB RAMP COMPLYING WITH 4.7 SHALL BE PROVIDED. VEHICLE STANDING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

4.7 CURB RAMPS.

- 4.7.1 LOCATION. CURB RAMPS COMPLYING WITH 4.7 SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
- 4.7.2 SLOPE. SLOPES OF CURB RAMPS SHALL COMPLY WITH 4.8.2. THE SLOPE SHALL BE MEASURED AS SHOWN IN FIG. 11. TRANSITIONS FROM RAMPS TO WALKS, CUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF OBSTACLES. MAXIMUM SLOPES OF ADJOINING CUTTERS ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
- 4.7.3 WIDTH. THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36" OF FLARED SIDES.
- 4.7.4 SURFACE. SURFACES OF CURB RAMPS SHALL COMPLY WITH 4.5.
- 4.7.5 SIDES OF CURB RAMPS. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR FENCES, THEN IT SHALL HAVE FLARED SIDES. THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 (SEE FIG. 12)(b)). CURB RAMPS WITH FLARED SIDES MAY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP (SEE FIG. 12)(b)).
- 4.7.6 BUILT-UP CURB RAMPS. BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES (SEE FIG. 13).
- 4.7.7 WARNING TACTILES. (REMOVED AND RESERVED).
- 4.7.8 OBSTRUCTIONS. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
- 4.7.9 LOCATION AT MARKED CROSSINGS. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
- 4.7.10 DIAGONAL CURB RAMPS. IF DIAGONAL (OR CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS. THE 48" (1220mm) CLEAR SPACE SHALL BE WITHIN THE PARALLEL. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE FLARED SIDES. THE 48" (1220mm) CLEAR SPACE OF STRAIGHT CURBS LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.
- 4.7.11 ISLANDS. ANY RAISED ISLANDS IN CROSSING SHALL BE CUT THROUGH-LENGTH WITH THE STREET OR WALKWAY CURB RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 48" (1220mm) LONG IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS.
- 4.7.12 UNCURBED INTERSECTIONS. (REMOVED AND RESERVED).

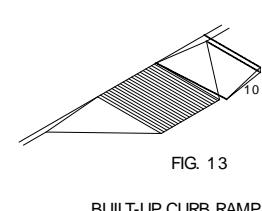
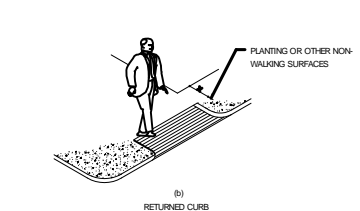
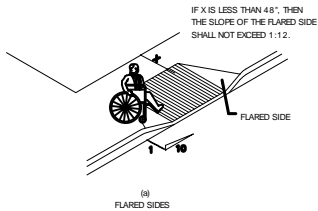


FIG. 12 SIDES OF CURB RAMPS. N.T.S.

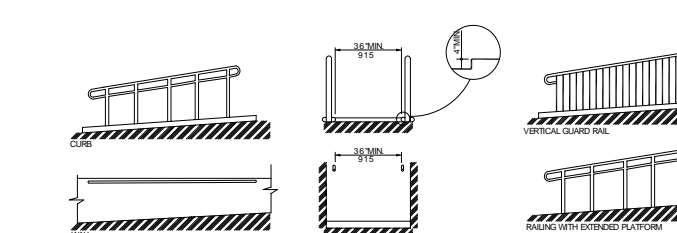


FIG. 17 EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS. N.T.S.

4.8 RAMPS.

- 4.8.1 GENERAL. ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH 4.8.
- 4.8.2 SLOPE & RISE. THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE LESS THAN 1:20. ANY RAMP SHALL BE 50" (1270mm) WIDE. CURB RAMPS AND RAMPS TO BE CONSTRUCTED ON EXISTING SITES OR IN EXISTING BUILDINGS OR FACILITIES MAY HAVE SLOPES AND RISE AS SHOWN IN TABLE 2. IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS (SEE 4.1.6).
- 4.8.3 CLEAR WIDTHS. THE MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 36" (915mm).
- 4.8.4 LANDINGS. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
 - (1) THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP LEADING TO IT.
 - (2) THE LANDING LENGTH SHALL BE A MINIMUM OF 6'0" (1.83m) CLEAR.
 - (3) IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 6'0" BY 6'0" (1.83m BY 1.83m).
 - (4) IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6.

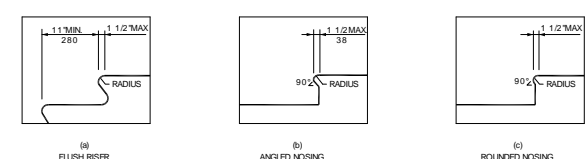


FIG. 18 USEABLE TREAD WIDTH AND EXAMPLES OF ACCEPTABLE NOSINGS. N.T.S.

- 4.8.5 HANDRAILS. IF A RAMP RUN HAS A RISE GREATER THAN 6" (152mm) OR A HORIZONTAL PROJECTION GREATER THAN 12" (305mm), IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL COMPLY WITH 4.8.5 AND SHALL HAVE THE FOLLOWING FEATURES:
 - (1) HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
 - (2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305mm) BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
 - (3) THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1-1/2" (38mm).
 - (4) GRIPPING SURFACES SHALL BE CONTINUOUS.
 - (5) TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 30" & 34" (760mm & 863mm) ABOVE RAMP SURFACES.
 - (6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
 - (7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 4.8.6 CROSS SLOPE & SURFACES. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50. RAMP SURFACES SHALL COMPLY WITH 4.5.
- 4.8.7 EDGE PROTECTION. RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, NOSINGS, OR PROTECTIVE SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2" (50mm) HIGH (SEE FIG. 17).
- 4.8.8 OUTDOOR CONDITIONS. OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

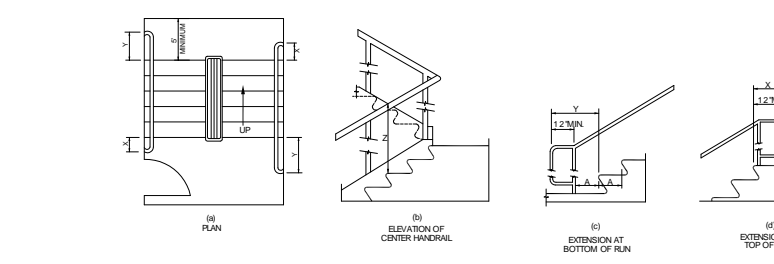


FIG. 19 STAIR HANDRAILS. N.T.S.

- 4.8.5 HANDRAILS. IF A RAMP RUN HAS A RISE GREATER THAN 6" (152mm) OR A HORIZONTAL PROJECTION GREATER THAN 12" (305mm), IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL COMPLY WITH 4.8.5 AND SHALL HAVE THE FOLLOWING FEATURES:
 - (1) HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
 - (2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305mm) BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
 - (3) THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1-1/2" (38mm).
 - (4) GRIPPING SURFACES SHALL BE CONTINUOUS.
 - (5) TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 30" & 34" (760mm & 863mm) ABOVE RAMP SURFACES.
 - (6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
 - (7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 4.8.6 CROSS SLOPE & SURFACES. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50. RAMP SURFACES SHALL COMPLY WITH 4.5.
- 4.8.7 EDGE PROTECTION. RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, NOSINGS, OR PROTECTIVE SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2" (50mm) HIGH (SEE FIG. 17).
- 4.8.8 OUTDOOR CONDITIONS. OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

4.9 STAIRS.

- 4.9.1 MINIMUM NUMBER. STAIRS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.9.
- 4.9.2 TREADS & RISERS. ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS. STAIR TREADS SHALL BE LESS THAN 11" (280mm) WIDE, MEASURED FROM RISER TO RISER (SEE FIG. 18)(b)). OPEN RISERS ARE NOT PERMITTED ON ACCESSIBLE ROUTES.
- 4.9.3 NOSINGS. THE UNDERSIDES OF NOSINGS SHALL NOT BE ABRUPT. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF TREADS SHALL BE NO GREATER THAN 1/2" (12.7mm). THE LEADING EDGE OF TREADS SHALL BE LEVEL TO THE SURFACE OF THE TREAD AND SHALL NOT BE LESS THAN 60 DEGREES FROM THE HORIZONTAL. NOSINGS SHALL PROJECT NO MORE THAN 1-1/2" (38mm) (SEE FIG. 18).
- 4.9.4 HANDRAILS. STAIRWAYS SHALL HAVE HANDRAILS AT BOTH SIDES OF ALL STAIRS. HANDRAILS SHALL COMPLY WITH 4.8.5 AND SHALL HAVE THE FOLLOWING FEATURES:
 - (1) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES OF STAIRS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG STAIRS SHALL ALWAYS BE CONTINUOUS (SEE FIG. 19)(a) & (b)).
 - (2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305mm) PLUS THE WIDTH OF ONE TREAD BEYOND THE BOTTOM RISER. AT THE TOP, THE EXTENSION SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE. AT THE BOTTOM, THE HANDRAIL SHALL CONTINUE TO SLOPE FOR A DISTANCE OF THE WIDTH OF ONE TREAD FROM THE BOTTOM RISER. THE REMAINDER OF THE EXTENSION SHALL BE HORIZONTAL (SEE FIG. 19)(c) & (d)). HANDRAIL EXTENSIONS SHALL COMPLY WITH 4.8.
 - (3) THE CLEAR SPACE BETWEEN HANDRAILS AND WALLS SHALL BE 1-1/2" (38mm).
 - (4) GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NYLON POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.
 - (5) TOP OF HANDRAIL GRIPPING SURFACE SHALL BE MOUNTED BETWEEN 30" & 34" (760mm & 863mm) ABOVE STAIR NOSINGS.
 - (6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
 - (7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 4.9.5 TACTILE WARNINGS AT STAIRS. (REMOVED & RESERVED).
- 4.9.6 OUTDOOR CONDITIONS. OUTDOOR STAIRS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

4.10 ELEVATORS.

- 4.10.1 GENERAL. ACCESSIBLE ELEVATORS SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.10 AND WITH THE ASME A17.1-1990, SAFETY CODE FOR ELEVATORS AND ESCALATORS. FREIGHT ELEVATORS SHALL NOT BE CONSIDERED AS MEETING THE REQUIREMENTS OF THIS SECTION UNLESS THE ONLY ELEVATORS PROVIDED ARE USED AS COMBINATION PASSENGER AND FREIGHT ELEVATORS FOR THE PUBLIC AND EMPLOYEES.
- 4.10.2 AUTOMATIC OPERATION. ELEVATOR OPERATION SHALL BE AUTOMATIC. EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING THE CAR TO FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2" (12.7mm) UNDER WATER LOADING ZERO TO LOADING CONDITIONS. THIS SELF-LEVELING FEATURE SHALL BE AUTOMATIC AND INDEPENDENT OF THE OPERATING DEVICE AND SHALL CORRECT THE OVERTRAVEL OR UNDERTRAVEL.
- 4.10.3 HALL CALL BUTTONS. CALL BUTTONS IN ELEVATOR LOBBIES AND HALLS SHALL BE CENTERED AT 42" (1067mm) ABOVE THE FLOOR. SUCH CALL BUTTONS SHALL HAVE VISUAL SIGNALS TO INDICATE WHEN EACH CALL IS REGISTERED AND WHEN EACH CALL IS ANSWERED. CALL BUTTONS SHALL BE A MINIMUM OF 14" (355mm) IN THE SMALLEST DIMENSION. THE BUTTON DESIGNATING THE UP DIRECTION SHALL BE ON TOP. BUTTONS SHALL BE RAISED OR FLUSH. OBSTACLES MOUNTED BETWEEN HALL CALL BUTTONS SHALL NOT PROJECT INTO THE ELEVATOR LOBBY MORE THAN 4" (100mm).
- 4.10.4 HALL LANTERNS. A VISIBLE AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE TO INDICATE WHICH CAR IS ANSWERING A CALL. AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION OR SHALL HAVE VERBAL ANNUNCIATORS THAT SAY "UP" OR "DOWN". VISIBLE SIGNALS SHALL HAVE THE FOLLOWING FEATURES:
 - (1) HALL LANTERN FIGURES SHALL BE MOUNTED SO THAT THEIR CENTERLINE IS AT LEAST 12" (305mm) IN THE SMALLEST DIMENSION.
 - (2) SIGNAL ELEMENTS SHALL BE AT LEAST 2-1/2" (64mm) IN THE SMALLEST DIMENSION.
 - (3) SIGNALS SHALL BE VISIBLE FROM THE VICINITY OF THE HALL CALL BUTTON. IN-CAR LANTERNS LOCATED IN CARS, VISIBLE FROM THE VICINITY OF HALL CALL BUTTONS, AND CONFORMING TO THE ABOVE REQUIREMENTS, SHALL BE ACCEPTABLE.

STAIR TREADS. N.T.S.

- 4.10.5 RAISED & BRILLE CHARACTERS ON HOISTWAY ENTRANCES. ALL ELEVATOR HOISTWAY ENTRANCES SHALL HAVE RAISED & BRILLE FLOOR DESIGNATIONS PROVIDED ON BOTH JAMBS. THE CENTERLINE OF THE CHARACTERS SHALL BE 1" (25.4mm) ABOVE FINISH FLOOR. SUCH CHARACTERS SHALL BE 2" (50mm) HIGH AND SHALL COMPLY WITH 4.30.4. PERMANENTLY APPLIED PLATES ARE ACCEPTABLE IF THEY ARE PERMANENTLY FIXED TO THE JAMBS.
- 4.10.6 DOOR PROTECTIVE REOPENING DEVICE. ELEVATOR DOORS SHALL OPEN AND CLOSE AUTOMATICALLY. THEY SHALL BE PROVIDED WITH A REOPENING DEVICE THAT SHALL STOP AND REOPEN A CAR DOOR AND HOISTWAY DOOR AUTOMATICALLY IF THE DOOR BECOMES OBSTRUCTED BY AN OBJECT OR PERSON. THE DEVICE SHALL BE CAPABLE OF COMPLETING THESE OPERATIONS WITHOUT REQUIRING CONTACT FOR AN OBSTRUCTION PASSING THROUGH THE OPENING AT HEIGHTS OF 5' & 29" (1.52m & 735mm) ABOVE FINISH FLOOR. DOOR REOPENING DEVICES SHALL REMAIN EFFECTIVE FOR AT LEAST 20 SECONDS. AFTER SUCH AN INTERVAL, DOORS MAY CLOSE IN ACCORDANCE WITH THE REQUIREMENTS OF ASME A17.1-1990.
- 4.10.7 DOOR & SIGNAL TIMING FOR HALL CALLS. THE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING A CALL UNTIL THE DOORS OF THAT CAR START TO CLOSE SHALL BE CALCULATED FROM THE FOLLOWING EQUATION:

$$T = D/(1.5/S) \text{ OR } T = D/(445mm/S)$$

WHERE T TOTAL TIME IN SECONDS AND D DISTANCE IN FEET OR MILLIMETERS FROM A POINT IN THE LOBBY OR CORRIDOR 60" (1525mm) DIRECTLY IN FRONT OF THE FAREST CALL BUTTON CONTROLLING THAT CAR TO THE CENTERLINE OF THE HOISTWAY DOOR. FOR CARS WITH BROW LANTERNS, T BEGINS WHEN THE LANTERN IS VISIBLE FROM THE VICINITY OF HALL CALL BUTTONS AND AUDIBLE SIGNAL IS SOUNDED. THE MINIMUM ACCEPTABLE NOTIFICATION TIME SHALL BE 5 SECONDS.

- 4.10.8 DOOR DELAY FOR CAR CALLS. THE MINIMUM TIME FOR ELEVATOR DOORS TO REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL SHALL BE 3 SECONDS.
- 4.10.9 FLOOR PLAN OF ELEVATOR CARS. THE FLOOR AREA OF ELEVATOR CARS SHALL PROVIDE SPACE FOR WHEELCHAIR USERS TO ENTER THE CAR, MANEUVER WITHIN REACH OF CONTROLS, AND EXIT FROM THE CAR. ACCEPTABLE DOOR OPENING AND INSIDE DIMENSIONS SHALL BE AS SHOWN IN FIG. 22. THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND THE EDGE OF ANY HOISTWAY LANDING SHALL BE NO GREATER THAN 1-1/4" (31.75mm).
- 4.10.10 ILLUMINATION LEVELS. THE LEVEL OF ILLUMINATION AT THE CENTER OF CONTROL PLATFORM AND CAR TRESHOLD AND LANDING SILL SHALL BE AT LEAST 5 FOOT-CANDELES (53.3 LUX).
- 4.10.12 CAR CONTROLS. ELEVATOR CONTROL PANELS SHALL HAVE THE FOLLOWING FEATURES:
 - (1) BUTTONS. ALL CONTROL BUTTONS SHALL BE AT LEAST 3/4" (19mm) IN THEIR SMALLEST DIMENSION. THEY SHALL BE RAISED OR FLUSH.
 - (2) TACTILE, BRILLE, AND VISUAL CONTROL INDICATORS. ALL CONTROL BUTTONS SHALL BE DESIGNATED BY BRILLE AND BY RAISED STANDARD ALPHABET CHARACTERS FOR LETTERS. RAISED CHARACTERS FOR NUMERALS, OR STANDARD SYMBOLS AS SHOWN IN FIG. 23(a) AND AS REQUIRED IN ASME A17.1-1990, RAISED & BRILLE CHARACTERS AND SYMBOLS SHALL BE AT LEAST 1/8" (3.175mm) HIGH. ALL RAISED DESIGNATIONS FOR CONTROL BUTTONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE BUTTON TO WHICH THEY APPLY. APPLIED PLATES, PERMANENTLY ATTACHED, ARE AN ACCEPTABLE MEANS TO PROVIDE RAISED CONTROL DESIGNATIONS. FLOOR BUTTONS SHALL BE PROVIDED WITH VISUAL INDICATORS TO SHOW WHEN EACH CALL IS REGISTERED. THE VISUAL INDICATORS SHALL BE ESTABLISHED WHEN EACH CALL IS ANSWERED.
 - (3) HEIGHT. ALL FLOOR BUTTONS SHALL BE NO HIGHER THAN 54" (1370mm) ABOVE THE FINISH FLOOR FOR SIDE APPROACH AND 48" (1220mm) FOR FRONT APPROACH. EMERGENCY CONTROLS, INCLUDING THE EMERGENCY ALARM AND EMERGENCY STOP, SHALL BE GROUNDED AT THE BOTTOM OF THE PANEL AND SHALL HAVE THEIR CENTERLINE NO LESS THAN 67" (890mm) ABOVE THE FINISH FLOOR (SEE FIG. 23)(a) & (b)).
 - (4) LOCATION. CONTROLS SHALL BE LOCATED ON A FRONT WALL IF CARS HAVE CENTER OPERATING DOORS, AND AT THE SIDE WALL OR AT THE FRONT WALL NEXT TO THE DOOR IF CARS HAVE SIDE OPERATING DOORS (SEE FIG. 23)(c) & (d)).
- 4.10.13 CAR POSITION INDICATORS. IN ELEVATOR CARS, A VISUAL CAR POSITION INDICATOR SHALL BE PROVIDED ABOVE THE CAR CONTROL PANEL OR OVER THE DOOR TO SHOW THE POSITION OF THE ELEVATOR IN THE HOISTWAY. AS THE CAR PASSES OR STOPS AT A FLOOR, THE INDICATOR SHALL BE ILLUMINATED. NUMERALS SHALL BE A MINIMUM OF 1/2" (12.7mm) HIGH. A FLUSH SIGNAL SHALL BE NO LESS THAN 20 DECIBELS WITH A FREQUENCY NO HIGHER THAN 1500 HZ. THE FLOOR NUMBER AT WHICH A CAR STOPS OR WHICH A CAR PASSES MAY BE SUBSTITUTED FOR AN AUTOMATIC VERBAL ANNOUNCEMENT THE AUDIBLE SIGNAL.
- 4.10.14 EMERGENCY COMMUNICATIONS. IF PROVIDED, EMERGENCY TWO-WAY COMMUNICATION SYSTEMS BETWEEN THE ELEVATOR AND A POINT OUTSIDE THE HOISTWAY SHALL COMPLY WITH ASME A17.1-1990. THE HIGHEST OPERABLE PART OF A TWO-WAY COMMUNICATION SYSTEM SHALL BE A MAXIMUM OF 48" (1220mm) FROM THE FLOOR OF THE CAR. IT SHALL BE IDENTIFIED BY A RAISED SYMBOL AND LETTERING CORRELATING WITH 4.30 AND LOCATED ADJACENT TO THE DEVICE. IF THE SYSTEM USES HANDSET THEN THE LENGTH OF THE CORD FROM THE PANEL TO THE HANDBOOK SHALL BE AT LEAST 20" (508mm). IF THE SYSTEM IS LOCATED IN A CLOSED COMPARTMENT, THE COMPARTMENT DOOR HARDWARE SHALL CONFORM TO 4.27. CONTROLS AND OPERATING MECHANISMS, THE EMERGENCY INTERCOMUNICATION SYSTEM SHALL NOT REQUIRE VISIBLE COMMUNICATION.

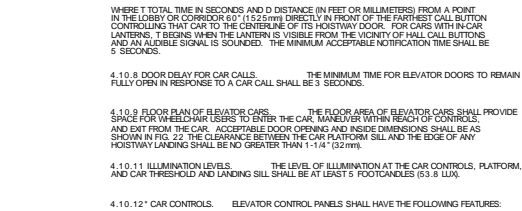


FIG. 22 MINIMUM DIMENSION OF ELEVATOR CARS. N.T.S.

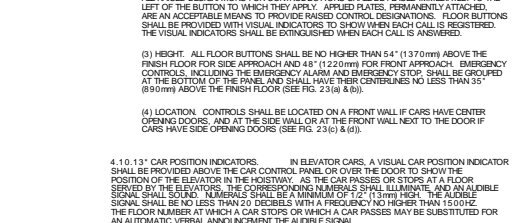


FIG. 23 CAR CONTROLS. N.T.S.

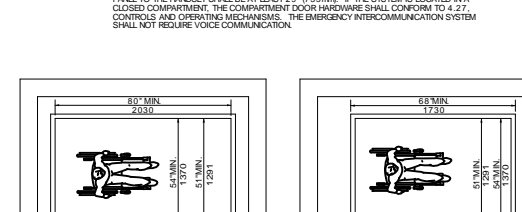


FIG. 23 ALTERNATE LOCATIONS OF PANEL WITH CENTER OPENING DOOR AND ALTERNATE LOCATIONS OF PANEL WITH SIDE OPENING DOOR. N.T.S.

4.11 PLATFORM LIFTS (WHEELCHAIR LIFTS).

- 4.11.1 LOCATION. PLATFORM LIFTS (WHEELCHAIR LIFTS) PERMITTED BY 4.1 SHALL COMPLY WITH THE REQUIREMENTS OF 4.11.
- 4.11.2 OTHER REQUIREMENTS. IF PLATFORM LIFTS (WHEELCHAIR LIFTS) ARE USED, THEY SHALL COMPLY WITH 4.2, 4.4, 4.5, 4.27, & ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX.1990.
- 4.11.3 ENTRANCE. IF PLATFORM LIFTS ARE USED THEN THEY SHALL FACILITATE UNASSISTED ENTRY, OPERATION, AND EXIT FROM THE LIFT IN COMPLIANCE WITH 4.11.2.
- 4.12 WINDOWS. (RESERVED).
- 4.12.1 GENERAL. (RESERVED).
- 4.12.2 WINDOW HARDWARE. (RESERVED).

4.13 DOORS.

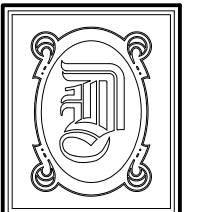
- 4.13.1 GENERAL. DOORS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH THE REQUIREMENTS OF 4.13.
- 4.13.2 REVOLVING DOORS & TURNSTILES. REVOLVING DOORS OR TURNSTILES SHALL NOT BE THE ONLY MEANS OF PASSAGE ON AN ACCESSIBLE ROUTE. AN ACCESSIBLE GATE OR DOOR SHALL BE PROVIDED ADJACENT TO THE TURNSTILE OR REVOLVING DOOR AND SHALL BE SO DESIGNED AS TO FACILITATE THE SAME USE PATTERN.
- 4.13.3 GATES. GATES, INCLUDING TICKET GATES, SHALL MEET ALL APPLICABLE SPECIFICATIONS OF 4.13.
- 4.13.4 DOUBLE-LEAF DOORWAYS. IF DOORWAYS HAVE TWO INDEPENDENTLY OPERATED DOOR LEAVES, THEN AT LEAST ONE LEAF SHALL MEET THE SPECIFICATIONS IN 4.13.5.4.1, 4.13.6, THAT LEAF SHALL BE AN ACTIVE LEAF.
- 4.13.5 CLEAR WIDTH. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" (813mm) WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP, OPENING MORE THAN 24" (610mm) IN DEPTH SHALL COMPLY WITH 4.1.4.5.3. EXCEPTION: DOORS NOT REQUIRING FULL USER PASSAGE, SUCH AS SHALLOW CLOSETS, MAY HAVE THE CLEAR OPENING REDUCED TO 20" (508mm) MINIMUM.
- 4.13.6 MANEUVERING CLEARANCES AT DOORS. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND FLAT. EXCEPTION: ENTRY DOORS TO ACUTE CARE HOSPITAL BEDROOMS FOR IN-PATIENTS SHALL BE EXEMPTED FROM THE REQUIREMENT FOR SPACE AT THE LATCH SIDE OF THE DOOR IF THE DOOR IS AT LEAST 44" (1120mm) WIDE.
- 4.13.7 TWO DOORS IN SERIES. THE MINIMUM SPACE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 48" (1220mm) PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE. DOORS IN SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.
- 4.13.8 THRESHOLDS AT DOORWAYS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4" (19mm) IN HEIGHT FOR EXTERIOR DOORWAYS OR 1/2" (12.7mm) FOR OTHER DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELLED WITH A SLOPE NO GREATER THAN 1:2 (SEE 4.2.2).
- 4.13.9 DOOR HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE HANDLES, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR POWER-ASSISTED DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" (1220mm) ABOVE FINISH FLOOR.
- 4.13.10 DOOR CLOSERS. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" (75mm) FROM THE LATCH SIDE OF THE LEADING EDGE OF THE DOOR.
- 4.13.11 DOOR OPENING FORCE. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
 - (1) FREE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
 - (2) OTHER DOORS:
 - (a) EXTERIOR HINGED DOORS: (RESERVED).
 - (b) INTERIOR HINGED DOORS: 5 LBF (22.2N)
 - (c) SLIDING OR FOLDING DOORS: 5 LBF (22.2N)

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISengage OTHER FUNCTION.

- 4.13.12 AUTOMATIC DOORS AND POWER-ASSISTED DOORS. IF AN AUTOMATIC DOOR IS USED, THEN IT SHALL COMPLY WITH ANSI/HI A156.10-1995. SLOWLY OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL COMPLY WITH ANSI A156.15-1994. SUCH DOORS SHALL NOT OPEN TO BACKCHECK OR REVERSE MORE THAN 24" (610mm) FROM THE POINT OF TRIP. SUCH DOORS SHALL ALSO BE MOVEMENT. IF A POWER-ASSISTED DOOR IS USED, ITS DOOR-OPENING FORCE SHALL COMPLY WITH 4.13.11, AND ITS CLOSING SHALL CONFORM TO THE REQUIREMENTS IN ANSI A156.15-1994.

4.14 ENTRANCES.

- 4.14.1 MINIMUM NUMBER. ENTRANCES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL BE PART OF AN ACCESSIBLE ROUTE COMPLYING WITH 4.3. SUCH ENTRANCES SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE TO PUBLIC TRANSPORTATION STOPS, TO ACCESSIBLE PARKING AND PASSENGER LOADING ZONES, AND TO PUBLIC STREETS OR SIDEWALKS IF AVAILABLE (SEE 4.3.2)(1)). THEY SHALL ALSO BE CONNECTED BY AN ACCESSIBLE ROUTE TO ALL ACCESSIBLE SPACES OR EMBLEMMENTS WITHIN THE BUILDING OR FACILITY.
- 4.14.2 SERVICE ENTRANCES. A SERVICE ENTRANCE SHALL NOT BE THE SOLE ACCESSIBLE ENTRANCE UNLESS IT IS THE ONLY ENTRANCE TO A BUILDING OR FACILITY (FOR EXAMPLE, IN A FACTORY OR GARAGE).
- 4.15 DRINKING FOUNTAINS AND WATER COOLERS.
 - 4.15.1 MINIMUM NUMBER. DRINKING FOUNTAINS AND WATER COOLERS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.15.
 - 4.15.2 SPOUT HEIGHT. SPOUTS SHALL BE NO HIGHER THAN 36" (915mm), MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.
 - 4.15.3 SPOUT LOCATION. THE SPOUTS OF DRINKING FOUNTAINS AND WATER COOLERS SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" (100mm) HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER ON AN ACCESSIBLE DRINKING FOUNTAIN WITH A ROUNDED OR OVAL SPOUT. THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3" (75mm) OF THE FRONT EDGE OF THE FOUNTAIN.
 - 4.15.4 CONTROLS. CONTROLS SHALL COMPLY WITH 4.27.4. UNIT CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE.
 - 4.15.5 CLEARANCES.
 - (1) WALL- AND POST-MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27" (686mm) HIGH, 30" (760mm) WIDE, AND 17" TO 19" (430mm TO 485mm) DEEP. SUCH UNITS SHALL ALSO HAVE A MINIMUM CLEAR FLOOR SPACE 30" BY 48" (760mm BY 1220mm) TO ALLOW A PERSON IN A WHEELCHAIR TO APPROACH THE UNIT FROM FORWARD.
 - (2) FREE-STANDING OR BUILT-IN UNITS NOT HAVING A CLEAR SPACE UNDER THEM SHALL HAVE A CLEAR FLOOR SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) THAT ALLOWS A PERSON IN A WHEELCHAIR TO MAKE A PARALLEL APPROACH TO THE UNIT. THIS CLEAR FLOOR SPACE SHALL ALSO HAVE A MINIMUM CLEAR FLOOR SPACE 30" BY 48" (760mm BY 1220mm) TO ALLOW A FLOOR THAT SHALL COMPLY WITH 4.2.4.



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HAMMOND, LA

HANDICAP
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JOB#: 1943

DATE: 7-25-08

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OF 22

ELECTRICAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
- ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
- WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT. AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS. M-2 MC MAY BE USED FOR LIGHTING WHIPS.
- PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
- ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
- MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COPPER, FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS/ INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES.
- CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
- INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
- BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPA 250-23, 250-71 & 250-72.
- GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
- FUSES SHALL BE ITC CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
- PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.
- EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ADJUTING PROPERTY LINE.
- ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

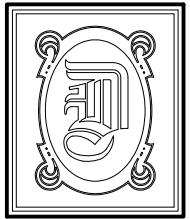
ELECTRICAL LOAD SUMMARY - 800A SERVICE

LOAD SOURCE	3Ø-KVA	Ø-KVA	OR 1Ø-KW	3Ø-KW
BUILDING LIGHTING	18.3k			
ELECTRIC WATER HEATING	2.6k			
HEAT PUMP				
SUPPLEMENTAL HEAT SYSTEM	211.2k			
AIR CONDITIONING				
ELECTRIC HEATING (CIRCLE - PRIMARY/SECONDARY)				
COOKING				
REFRIGERATION	3.3k			
RECEPTACLES (STANDARD)	109.1k			
RECEPTACLES (COMPUTER)				
TOTAL MOTORS (EXCLUDE HVAC)				
PARKING LOT / EXTERIOR LIGHTING	3.3k			
MISCELLANEOUS				
OTHER (SPECIFY)				
TOTAL	357.8k			

PANEL: MP
LOCATION: EXTERIOR WALL EXITING FROM KITCHEN AREA
FEEDER SOURCE: PANEL MP

VOLTAGE: 120/208V, 200A, 3Ø, 4W, 1Ø-D
ENCLOSURE: SURFACE MOUNTED, V/EQUIPMENT AND DNR

NO.	LOAD DESCRIPTION	AMPS	POLE	PHASE	WIRE	CONDUIT	TERMINALS	NO.	LOAD DESCRIPTION	AMPS	POLE	PHASE	WIRE	CONDUIT	TERMINALS
1	EXISTING HOOD #1	100	3		12	1.5"	12	2	EXISTING HOOD #2	100	3		12	1.5"	12
3	NEW HOOD #1 (S.P. #1)	100	3		12	1.5"	12	4	NEW HOOD #2 (S.P. #2)	100	3		12	1.5"	12
5	NEW HOOD #3 (S.P. #3)	100	3		12	1.5"	12	6	NEW HOOD #4 (S.P. #4)	100	3		12	1.5"	12
7	NEW HOOD #5 (S.P. #5)	100	3		12	1.5"	12	8	NEW HOOD #6 (S.P. #6)	100	3		12	1.5"	12
9	NEW HOOD #7 (S.P. #7)	100	3		12	1.5"	12	10	NEW HOOD #8 (S.P. #8)	100	3		12	1.5"	12
11	NEW HOOD #9 (S.P. #9)	100	3		12	1.5"	12	12	NEW HOOD #10 (S.P. #10)	100	3		12	1.5"	12
13	NEW HOOD #11 (S.P. #11)	100	3		12	1.5"	12	14	NEW HOOD #12 (S.P. #12)	100	3		12	1.5"	12
15	NEW HOOD #13 (S.P. #13)	100	3		12	1.5"	12	16	NEW HOOD #14 (S.P. #14)	100	3		12	1.5"	12
17	NEW HOOD #15 (S.P. #15)	100	3		12	1.5"	12	18	NEW HOOD #16 (S.P. #16)	100	3		12	1.5"	12
19	NEW HOOD #17 (S.P. #17)	100	3		12	1.5"	12	20	NEW HOOD #18 (S.P. #18)	100	3		12	1.5"	12
21	NEW HOOD #19 (S.P. #19)	100	3		12	1.5"	12	22	NEW HOOD #20 (S.P. #20)	100	3		12	1.5"	12
23	NEW HOOD #21 (S.P. #21)	100	3		12	1.5"	12	24	NEW HOOD #22 (S.P. #22)	100	3		12	1.5"	12
25	NEW HOOD #23 (S.P. #23)	100	3		12	1.5"	12	26	NEW HOOD #24 (S.P. #24)	100	3		12	1.5"	12
27	NEW HOOD #25 (S.P. #25)	100	3		12	1.5"	12	28	NEW HOOD #26 (S.P. #26)	100	3		12	1.5"	12
29	NEW HOOD #27 (S.P. #27)	100	3		12	1.5"	12	30	NEW HOOD #28 (S.P. #28)	100	3		12	1.5"	12
31	NEW HOOD #29 (S.P. #29)	100	3		12	1.5"	12	32	NEW HOOD #30 (S.P. #30)	100	3		12	1.5"	12
33	NEW HOOD #31 (S.P. #31)	100	3		12	1.5"	12	34	NEW HOOD #32 (S.P. #32)	100	3		12	1.5"	12
35	NEW HOOD #33 (S.P. #33)	100	3		12	1.5"	12	36	NEW HOOD #34 (S.P. #34)	100	3		12	1.5"	12
37	NEW HOOD #35 (S.P. #35)	100	3		12	1.5"	12	38	NEW HOOD #36 (S.P. #36)	100	3		12	1.5"	12
39	NEW HOOD #37 (S.P. #37)	100	3		12	1.5"	12	40	NEW HOOD #38 (S.P. #38)	100	3		12	1.5"	12
41	NEW HOOD #39 (S.P. #39)	100	3		12	1.5"	12	42	NEW HOOD #40 (S.P. #40)	100	3		12	1.5"	12
43	NEW HOOD #41 (S.P. #41)	100	3		12	1.5"	12	44	NEW HOOD #42 (S.P. #42)	100	3		12	1.5"	12
45	NEW HOOD #43 (S.P. #43)	100	3		12	1.5"	12	46	NEW HOOD #44 (S.P. #44)	100	3		12	1.5"	12
47	NEW HOOD #45 (S.P. #45)	100	3		12	1.5"	12	48	NEW HOOD #46 (S.P. #46)	100	3		12	1.5"	12
49	NEW HOOD #47 (S.P. #47)	100	3		12	1.5"	12	50	NEW HOOD #48 (S.P. #48)	100	3		12	1.5"	12
51	NEW HOOD #49 (S.P. #49)	100	3		12	1.5"	12	52	NEW HOOD #50 (S.P. #50)	100	3		12	1.5"	12
53	NEW HOOD #51 (S.P. #51)	100	3		12	1.5"	12	54	NEW HOOD #52 (S.P. #52)	100	3		12	1.5"	12
55	NEW HOOD #53 (S.P. #53)	100	3		12	1.5"	12	56	NEW HOOD #54 (S.P. #54)	100	3		12	1.5"	12
57	NEW HOOD #55 (S.P. #55)	100	3		12	1.5"	12	58	NEW HOOD #56 (S.P. #56)	100	3		12	1.5"	12
59	NEW HOOD #57 (S.P. #57)	100	3		12	1.5"	12	60	NEW HOOD #58 (S.P. #58)	100	3		12	1.5"	12
61	NEW HOOD #59 (S.P. #59)	100	3		12	1.5"	12	62	NEW HOOD #60 (S.P. #60)	100	3		12	1.5"	12
63	NEW HOOD #61 (S.P. #61)	100	3		12	1.5"	12	64	NEW HOOD #62 (S.P. #62)	100	3		12	1.5"	12
65	NEW HOOD #63 (S.P. #63)	100	3		12	1.5"	12	66	NEW HOOD #64 (S.P. #64)	100	3		12	1.5"	12
67	NEW HOOD #65 (S.P. #65)	100	3		12	1.5"	12	68	NEW HOOD #66 (S.P. #66)	100	3		12	1.5"	12
69	NEW HOOD #67 (S.P. #67)	100	3		12	1.5"	12	70	NEW HOOD #68 (S.P. #68)	100	3		12	1.5"	12
71	NEW HOOD #69 (S.P. #69)	100	3		12	1.5"	12	72	NEW HOOD #70 (S.P. #70)	100	3		12	1.5"	12
73	NEW HOOD #71 (S.P. #71)	100	3		12	1.5"	12	74	NEW HOOD #72 (S.P. #72)	100	3		12	1.5"	12
75	NEW HOOD #73 (S.P. #73)	100	3		12	1.5"	12	76	NEW HOOD #74 (S.P. #74)	100	3		12	1.5"	12
77	NEW HOOD #75 (S.P. #75)	100	3		12	1.5"	12	78	NEW HOOD #76 (S.P. #76)	100	3		12	1.5"	12
79	NEW HOOD #77 (S.P. #77)	100	3		12	1.5"	12	80	NEW HOOD #78 (S.P. #78)	100	3		12	1.5"	12
81	NEW HOOD #79 (S.P. #79)	100	3		12	1.5"	12	82	NEW HOOD #80 (S.P. #80)	100	3		12	1.5"	12
83	NEW HOOD #81 (S.P. #81)	100	3		12	1.5"	12	84	NEW HOOD #82 (S.P. #82)	100	3		12	1.5"	12
85	NEW HOOD #83 (S.P. #83)	100	3		12	1.5"	12	86	NEW HOOD #84 (S.P. #84)	100	3		12	1.5"	12
87	NEW HOOD #85 (S.P. #85)	100	3		12	1.5"	12	88	NEW HOOD #86 (S.P. #86)	100	3		12	1.5"	12
89	NEW HOOD #87 (S.P. #87)	100	3		12	1.5"	12	90	NEW HOOD #88 (S.P. #88)	100	3		12	1.5"	12
91	NEW HOOD #89 (S.P. #89)	100	3		12	1.5"	12	92	NEW HOOD #90 (S.P. #90)	100	3		12	1.5"	12
93	NEW HOOD #91 (S.P. #91)	100	3		12	1.5"	12	94	NEW HOOD #92 (S.P. #92)	100	3		12	1.5"	12
95	NEW HOOD #93 (S.P. #93)	100	3		12	1.5"	12	96	NEW HOOD #94 (S.P. #94)	100	3		12	1.5"	12
97	NEW HOOD #95 (S.P. #95)	100	3		12	1.5"	12	98	NEW HOOD #96 (S.P. #96)	100	3		12	1.5"	12
99	NEW HOOD #97 (S.P. #97)	100	3		12	1.5"	12	100	NEW HOOD #98 (S.P. #98)	100	3		12	1.5"	12
101	NEW HOOD #99 (S.P. #99)	100	3		12	1.5"	12	102	NEW HOOD #100 (S.P. #100)	100	3		12	1.5"	12
103	NEW HOOD #101 (S.P. #101)	100	3		12	1.5"	12	104	NEW HOOD #102 (S.P. #102)	100	3		12	1.5"	12
105	NEW HOOD #103 (S.P. #103)	100	3		12	1.5"	12	106	NEW HOOD #104 (S.P. #104)	100	3		12	1.5"	12
107	NEW HOOD #105 (S.P. #105)	100	3		12	1.5"	12	108	NEW HOOD #106 (S.P. #106)	100	3		12	1.5"	12
109	NEW HOOD #107 (S.P. #107)	100	3		12	1.5"	12	110	NEW HOOD #108 (S.P. #108)	100	3		12	1.5"	12
111	NEW HOOD #109 (S.P. #109)	100	3		12	1.5"	12	112	NEW HOOD #110 (S.P. #110)	100	3		12	1.5"	12
113	NEW HOOD #111 (S.P. #111)	100	3		12	1.5"	12	114	NEW HOOD #112 (S.P. #112)	100	3		12	1.5"	12
115	NEW HOOD #113 (S.P. #113)	100	3		12	1.5"	12	116	NEW HOOD #114 (S.P. #114)	100	3		12	1.5"	12
117	NEW HOOD #115 (S.P. #115)	100	3		12	1.5"	12	118	NEW HOOD #116 (S.P. #116)	100	3		12	1.5"	12
119	NEW HOOD #117 (S.P. #117)	100	3		12	1.5"	12	120	NEW HOOD #118 (S.P. #118)	100	3		12	1.5"	12
121	NEW HOOD #119 (S.P. #119)	100	3		12	1.5"	12	122	NEW HOOD #120 (S.P. #120)	100	3		12	1.5"	12
123	NEW HOOD #121 (S.P. #121)	100	3		12	1.5"	12	124	NEW HOOD #122 (S.P. #122)	100	3		12	1.5"	12
125	NEW HOOD #123 (S.P. #123)	100	3		12	1.5"	12	126	NEW HOOD #124 (S.P. #124)	100	3		12	1.5"	12
127	NEW HOOD #125 (S.P. #125)	100	3		12	1.5"	12	128	NEW HOOD #126 (S.P. #126)	100	3		12	1.5"	12
129	NEW HOOD #127 (S.P. #127)	100	3		12	1.5"	12	130	NEW HOOD #128 (S.P. #128)	100	3		12	1.5"	12
131	NEW HOOD #129 (S.P. #129)	100	3		12	1.5"	12	132	NEW HOOD #130 (S.P. #130)	100	3		12	1.5"	12
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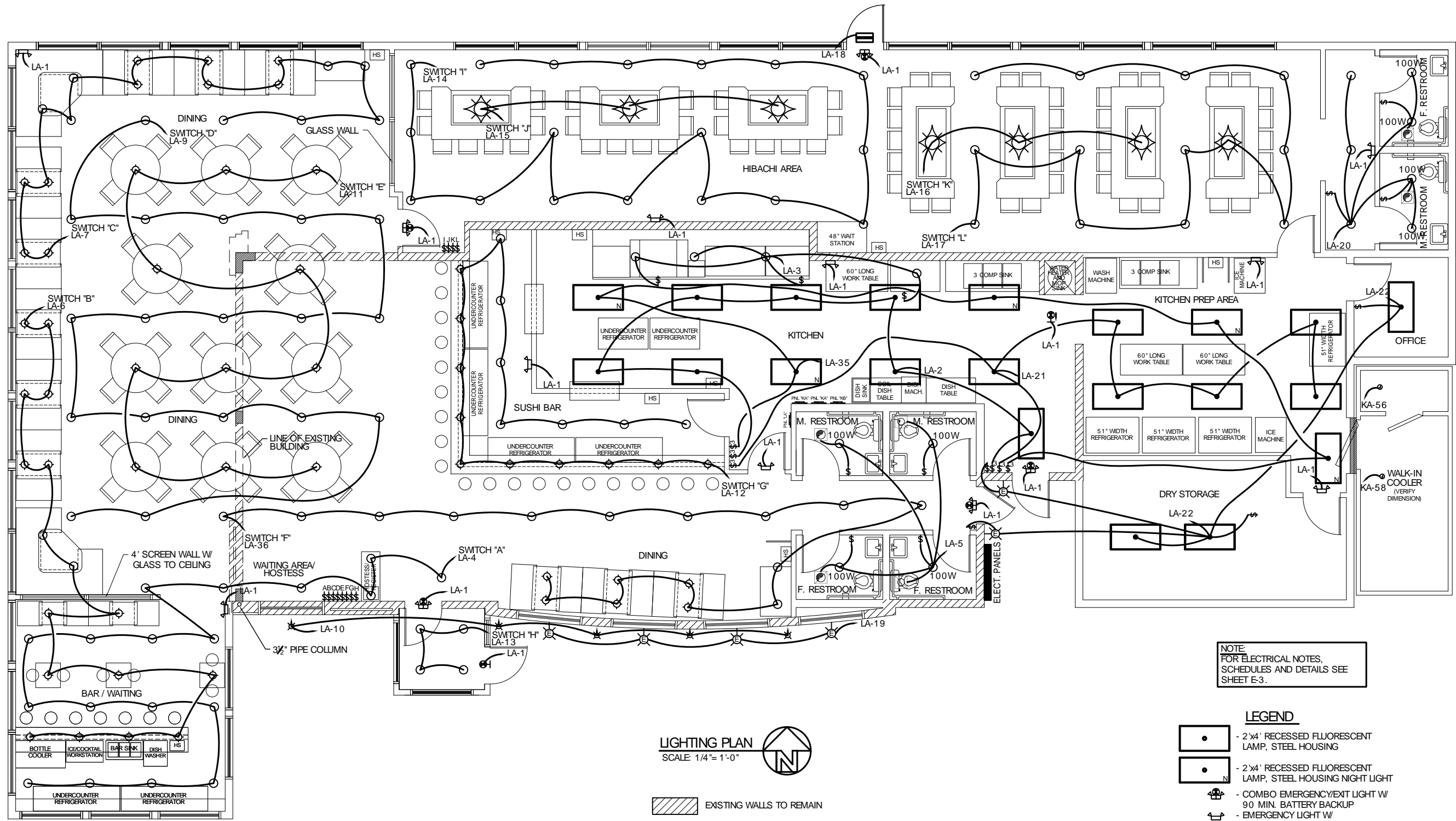
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LIGHTING PLAN



NOTE:
FOR ELECTRICAL NOTES,
SCHEDULES AND DETAILS SEE
SHEET E-3.

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

EXISTING WALLS TO REMAIN

- LEGEND**
- 2'x4' RECESSED FLUORESCENT LAMP, STEEL HOUSING
 - 2'x4' RECESSED FLUORESCENT LAMP, STEEL HOUSING NIGHT LIGHT
 - COMBO EMERGENCY/EXIT LIGHT W/ 90 MIN. BATTERY BACKUP
 - EMERGENCY LIGHT W/ 90 MIN. BATTERY BACKUP
 - EXIT LIGHT W/ 90 MIN. BATTERY BACKUP
 - PULL CHAIN LIGHT, 60W, SELECTED BY OWNER
 - RECESSED CAN LIGHT, 60W, UNLESS OTHERWISE NOTED, SELECTED BY OWNER
 - PENDANT STYLE LIGHTING, 60W, SELECTED BY OWNER
 - WALL MOUNTED LIGHT, SELECTED BY OWNER
 - EXISTING EXTERIOR WALL MOUNTED LIGHT TO REMAIN
 - SWITCH
 - 3-WAY SWITCH
 - POWER PANEL
 - HIBACHI LIGHT, SELECTED BY OWNER
 - EXISTING UP LIGHTING TO REMAIN
 - J-BOX 220V
 - WALL PACK, SELECTED BY OWNER
 - EXHAUST FAN

REV:

SCALE: AS NOTED

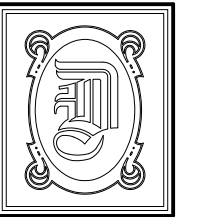
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OF 22



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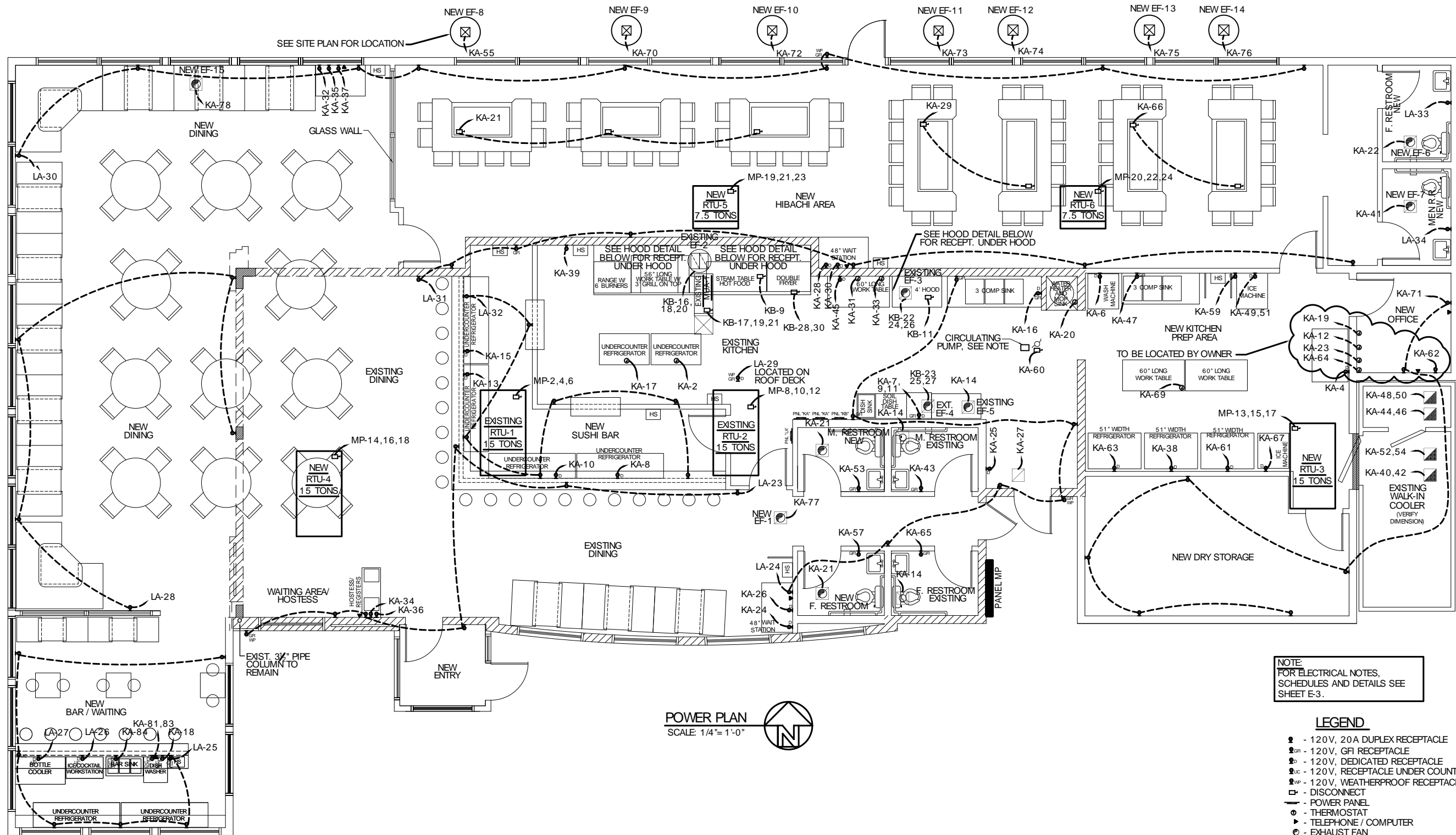
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ARCHITECTURE
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RESTAURANT RENOVATION

OSAKA
287 S. MORRISON BLVD.
HAMMOND, LA

POWER PLAN



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

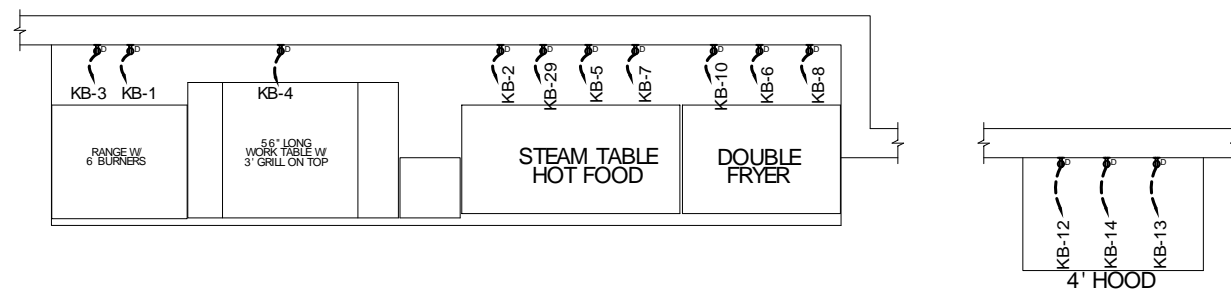
NOTE:
FOR ELECTRICAL NOTES,
SCHEDULES AND DETAILS SEE
SHEET E-3.

LEGEND

- ⊕ - 120V, 20A DUPLEX RECEPTACLE
- ⊕GFI - 120V, GFI RECEPTACLE
- ⊕D - 120V, DEDICATED RECEPTACLE
- ⊕UC - 120V, RECEPTACLE UNDER COUNTER
- ⊕WP - 120V, WEATHERPROOF RECEPTACLE
- ⊠ - DISCONNECT
- ⊠ - POWER PANEL
- ⊙ - THERMOSTAT
- ⊠ - TELEPHONE / COMPUTER
- ⊙ - EXHAUST FAN
- ⊙ - WATER HEATER
- ⊙ - J-BOX 220V
- ⊠ - 208/240, 1Ø JUNCTION BOX

EXISTING WALLS TO REMAIN

NOTE:
HOT WATER CIRCULATING PUMP -
ARMSTRONG S-25, 1/12 HP 115V, 1
PHASE PROVIDE PROGRAMMABLE TIMER
FOR PUMP.



HOOD DETAIL
N.T.S.

REV:

SCALE: AS NOTED

JOB#: 1943

DATE: 7-25-08

SHEET 18

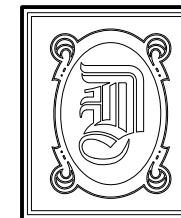
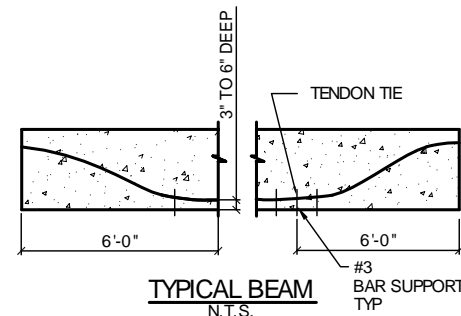
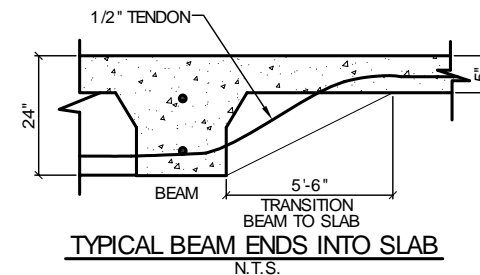
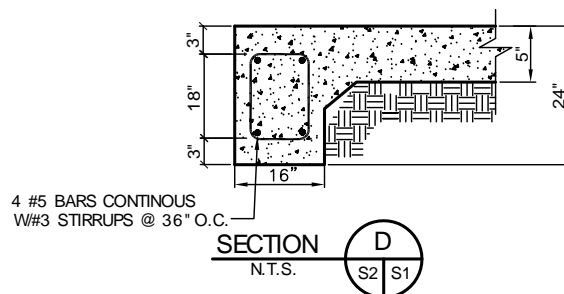
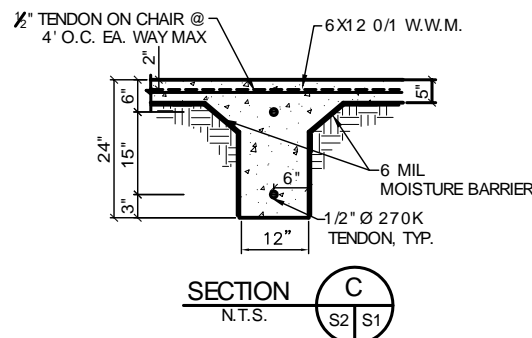
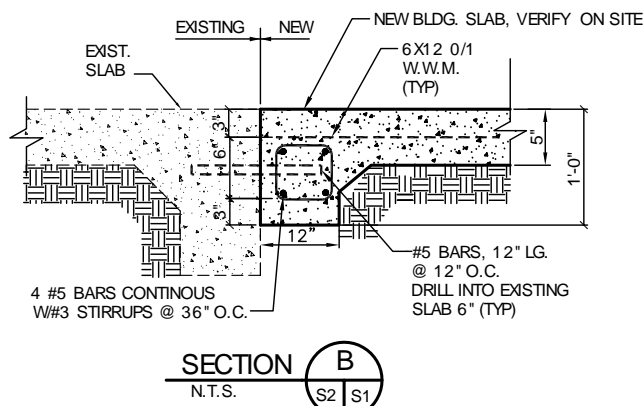
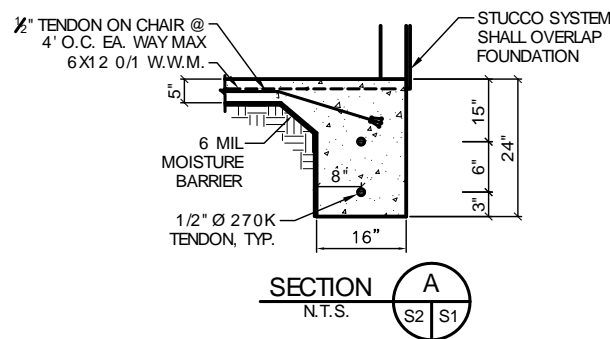
E-1

OF 22

FOUNDATION GENERAL NOTES:

1. THE INTENT OF THIS PLAN IS TO PROVIDE INFORMATION FOR PLACEMENT OF POST TENSION SYSTEM TENDONS AND (WHERE SHOWN) PILING. ONLY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, BRICK LEDGES, BLOCK OUTS, OFFSETS, ETC., SHOWN ON THESE PLANS. TO ASSURE AGREEMENT WITH ARCHITECTURAL PLANS.
2. FILL, AS A MINIMUM QUALITY, SHALL BE 40% CLAY AND 60% SANDY MIXTURE, PLACED IN 6" LIFTS AND COMPACTED TO MINIMUM 95% STANDARD PROCTOR. FOOTINGS ARE DESIGNED TO USE WITH SOIL PRESSURE OF 2000 LBS. PER SQUARE FOOT OR MORE. PRIOR TO PILE DRIVING (WHERE PILES ARE REQUIRED) IT IS RECOMMENDED THAT OWNER VERIFY PILE SIZE AND CAPACITY BY CONTRACTING THE SERVICES OF A SOILS ENGINEERING COMPANY, OR AS AN ALTERNATIVE, VERIFY PILE CAPACITY WITH A PILE LOAD TEST. IF NO SOILS ANALYSIS FOR THE PROPERTY HAS BEEN PROVIDED TO ENGINEER, CONTRACTOR MUST ADVISE OWNER THAT PILE LOAD CAPACITIES USED ARE BASED ON LOCAL CODES AND HISTORICAL INFORMATION WHERE AVAILABLE, AND THAT THE SOILS DATA FOR THE SPECIFIC PROJECT AREA MAY NOT BE COMMENSURATE WITH THESE DATA. CONTRACTOR SHALL ARRANGE TO HAVE A VERIFIED COPY OF THE BLOW COUNT FOR DRIVING EACH PILE. ALL WATER (RAIN, RISING WATER, ETC.) SHALL BE DIRECTED AWAY FROM THE SLAB DURING PREPARATION, PLACING AND CURING OF SAME. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES.
3. BEAM SIZES AND LOCATION AND NUMBER OF PILES SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE ENGINEER. EXCEPT THAT BEAM DEPTH MAY BE EXTENDED TO REACH UNDISTURBED SOIL. SPECIAL LOADS NOT INDICATED ON DRAWING I.E., BRICK FIREPLACES, AND OR CHIMNEYS, HOT TUBS ETC., REQUIRE ADDITIONAL REINFORCEMENT.
4. IT IS RECOMMENDED THAT A CURING COMPOUND BE USED TO CONTROL SHRINKAGE.
5. AS A MINIMUM, INSTALLATION OF RIGID FLOOR TILES, BRICK, ETC. SHALL BE OVER AN ELASTIC BOND BREAKER. ANY CRACKS IN CONCRETE FLOOR SHALL BE TREATED PRIOR TO INSTALLATION OF TILES. ELASTOMERIC ADHESIVE IS RECOMMENDED FOR CERAMIC FLOOR TILES. WHERE DECORATIVE CONCRETE IS USED, ADDITIONAL REINFORCEMENT WILL BE REQUIRED.
6. WHERE ADDITIONAL REINFORCEMENT WITH REBAR IS USED IN FOOTINGS, IT SHALL CONFORM TO ASTM A615. WOVEN WIRE FABRICS SHALL CONFORM TO ASTM A185.
7. TENDONS AND BARS SHALL BE SECURELY SUPPORTED TO BE PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACING OF CONCRETE.
8. ALLOW 8" CENTERED CLEARANCE ON TENDON AXIS BY 36" LENGTH FOR STRESSING EQUIPMENT CLEARANCE.
9. CONCRETE SHALL BE WELL CONSOLIDATED ESPECIALLY IN THE VICINITY OF TENDON ANCHORAGES.
10. CONCRETE DESIGN IS BASED UPON A CONCRETE MIX HAVING A MINIMUM OF 5.3 SACKS OF CEMENT PER CUBIC YARD AND A MAXIMUM OF 30 GALLONS OF FREE AND ADDED WATER PER CUBIC YARD. SUCH A MIX SHOULD GIVE A MINIMUM COMPRESSION STRENGTH OF 3,000 P.S.I. AT 28 DAYS. CONCRETE DESIGN MIX SHALL BE IN ACCORDANCE WITH THE A.C.I. BUILDING CODE REQUIREMENTS.
11. CONCRETE TO HAVE A MINIMUM COMPRESSION STRENGTH OF 1500 P.S.I. AT THE TIME OF STRESSING.
12. ALL CONVENTIONAL REINFORCING STEEL SHALL BE ASTM DESIGNATION A-615 (GRADE 60) REINFORCING AND SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
13. ALL PRESTRESSING STEEL SHALL CONSIST OF SEVEN-WIRE STRESS RELIEVED STRAND CONFORMING TO ASTM A-416. MINIMUM ULTIMATE TENSILE STRENGTH SHALL BE 270,000 P.S.I.. STRANDS SHALL BE COATED WITH A PERMANENT RUST PREVENTIVE LUBRICANT AND A PLASTIC SHEATH.
14. REINFORCEMENT SHALL HAVE 3" COVER IN GRADE BEAM BOTTOMS, 2" COVER IN BEAM SIDES AND TOPS, 1 1/2" COVER IN SLAB TOPS AND BOTTOMS, UNLESS OTHERWISE SHOWN.
15. COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS, INSERTS AND ANY OTHER RELATED ITEMS.
16. PLANS FOR PIPES, CONDUITS, THIMBLES, ETC. TO PASS THROUGH CONCRETE SLAB OR BEAM, MUST NOT CONFLICT WITH REINFORCING. WHERE A CONFLICT OCCURS, PIPES, CONDUIT, ETC. ARE TO TAKE PRECEDENCE.
17. PROVIDE A SINGLE LAYER OF VAPOR BARRIER UNDER CONCRETE SLAB.
18. THE TENDON LOCATION AT THE END OF GRADE BEAM IS TO BE A MINIMUM OF 6" FROM THE TOP OF SLAB TO CENTER OF GRAVITY OF TENDONS.
19. TENDONS TO BE STRESSED NO EARLIER THAN 7 DAYS AND NOT LATER THAN 14 DAYS AFTER PLACEMENT OF CONCRETE.
20. FORMS TO BE STRIPPED NO LATER THAN 6 DAYS AFTER PLACEMENT OF CONCRETE.
21. STRESSING:
 1. 1/2" TENDON SHALL BE ANCHORED AT 28.9K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 33.0K PER STRAND.
 2. 3/8" TENDON SHALL BE ANCHORED AT 16.1K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 18.4K PER STRAND.
22. LOADING OF SLAB PRIOR TO TENSIONING SHALL NOT BE DONE WITHOUT THE APPROVAL AND DIRECTION OF THE SUPERVISING ENGINEER.

PRIOR TO PILE DRIVING (WHERE PILES ARE REQUIRED) AND PROJECTS WHERE THE EXISTING FOUNDATION IS BEING MODIFIED TO USE SPREAD FOOTINGS OR SCREW PILES TO SUPPORT NEW LOADS, IT IS RECOMMENDED THAT THE CONTRACTOR OR OWNER VERIFY ALLOWABLE SOIL PRESSURES BY CONTRACTING THE SERVICES OF A SOILS ENGINEERING COMPANY, TO VERIFY SOIL CAPACITIES AND/OR PILE CAPACITIES. LOAD CAPACITIES ARE BASED ON LOCAL CODES AND HISTORICAL INFORMATION WHERE AVAILABLE, AND THE SOILS INFORMATION AVAILABLE FOR GENERAL AREAS MAY NOT BE COMMENSURATE WITH THIS PARTICULAR PROJECT.



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CHIEF ARCHITECT
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RESTAURANT RENOVATION

OSAKA
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FOUNDATION NOTES, DETAILS, AND SECTIONS

REV:

SCALE: AS NOTED

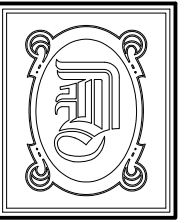
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DATE: 7-25-08

SHEET 5

S-2

OF 22



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FOUNDATION
PLAN

REV:

SCALE: AS NOTED

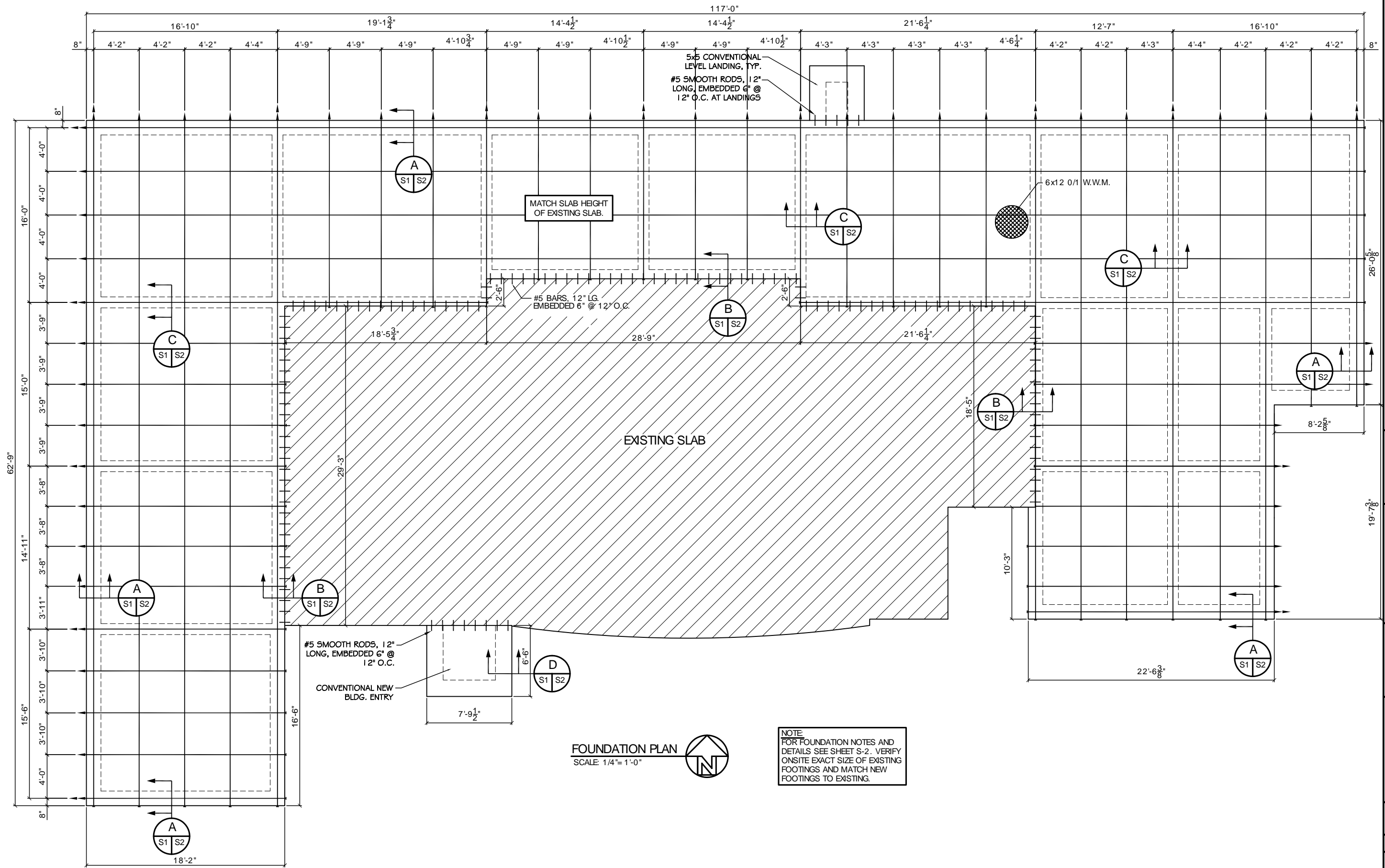
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DATE: 7-25-08

SHEET 4

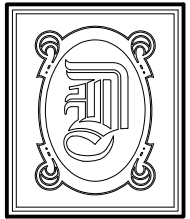
S-1

OF 22



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

NOTE
FOR FOUNDATION NOTES AND
DETAILS SEE SHEET S-2. VERIFY
ONSITE EXACT SIZE OF EXISTING
FOOTINGS AND MATCH NEW
FOOTINGS TO EXISTING.



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PLUMBING DETAILS, SCHEDULES AND ONE LINE DIAGRAM

REV:

SCALE: AS NOTED

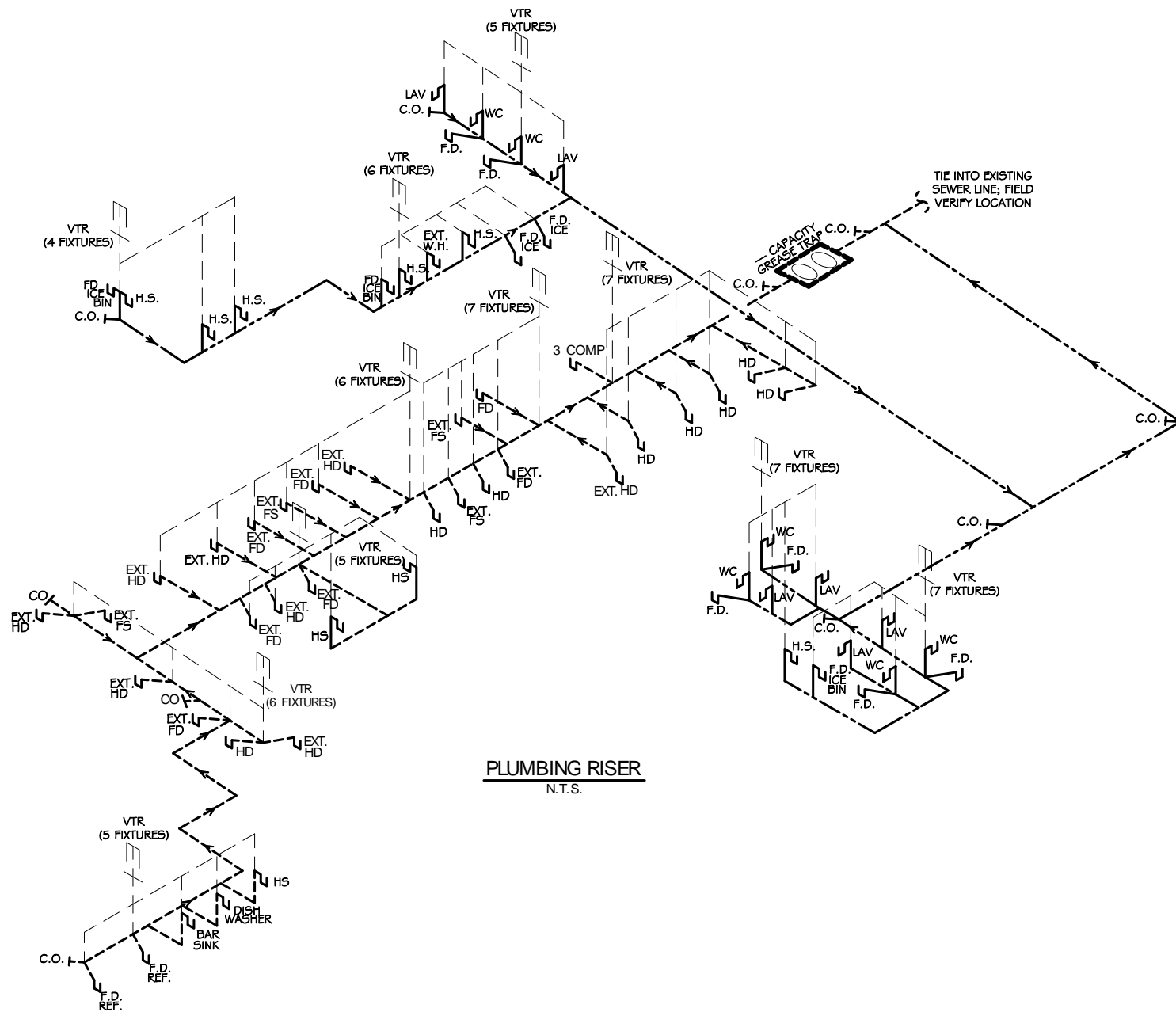
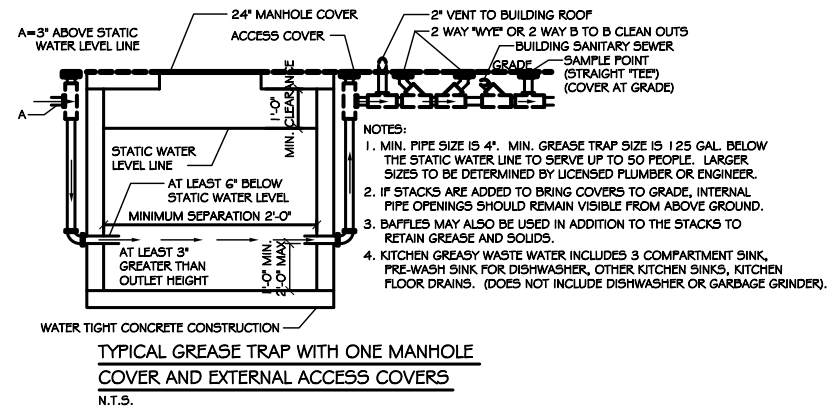
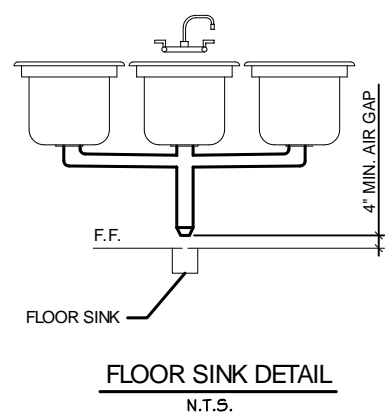
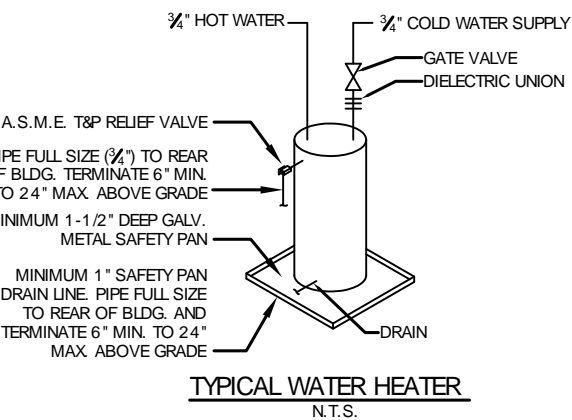
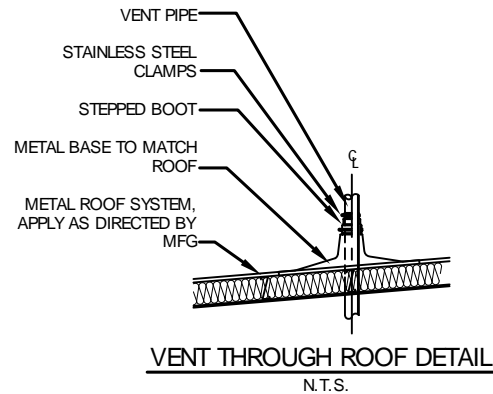
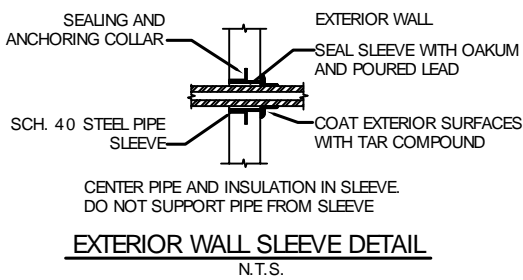
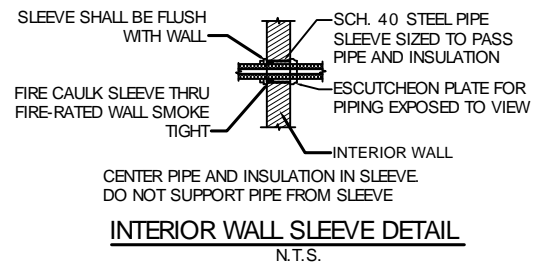
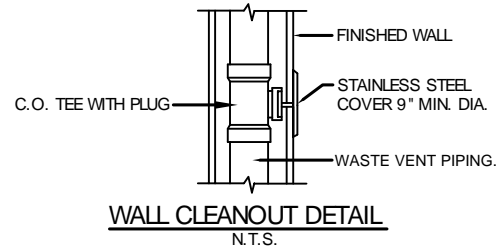
JOB#: 1943

DATE: 7-25-08

SHEET 22

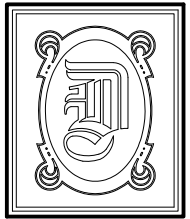
P-2

OF 22



PLUMBING FIXTURE SCHEDULE					
MARK	DESCRIPTION	TYPE	ROUGH-IN-SIZES		NOTES
			WASTE	VENT CW H.W.	
WC	WATER CLOSET	VALVE	4"	4" 1"	3
LAV	LAVATORY	-	2"	2" 1/2" 1/2"	1, 2, 3
FD	FLOOR DRAIN	-	2"	2"	4, 5
WH	WATER HEATER	-	3/4"	2" 1/2" 1/2"	

- NOTES:
 1. INSULATE PIPING FOR HANDICAP FIXTURE.
 2. PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURE.
 3. H.C. - HANDICAP FIXTURE
 4. INSTALL CONTINUOUS DRIP VALVE ON ALL FLOOR DRAINS.
 5. INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS.



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RESTAURANT RENOVATION

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HAMMOND, LA

PLUMBING PLAN

REV:

SCALE: AS NOTED

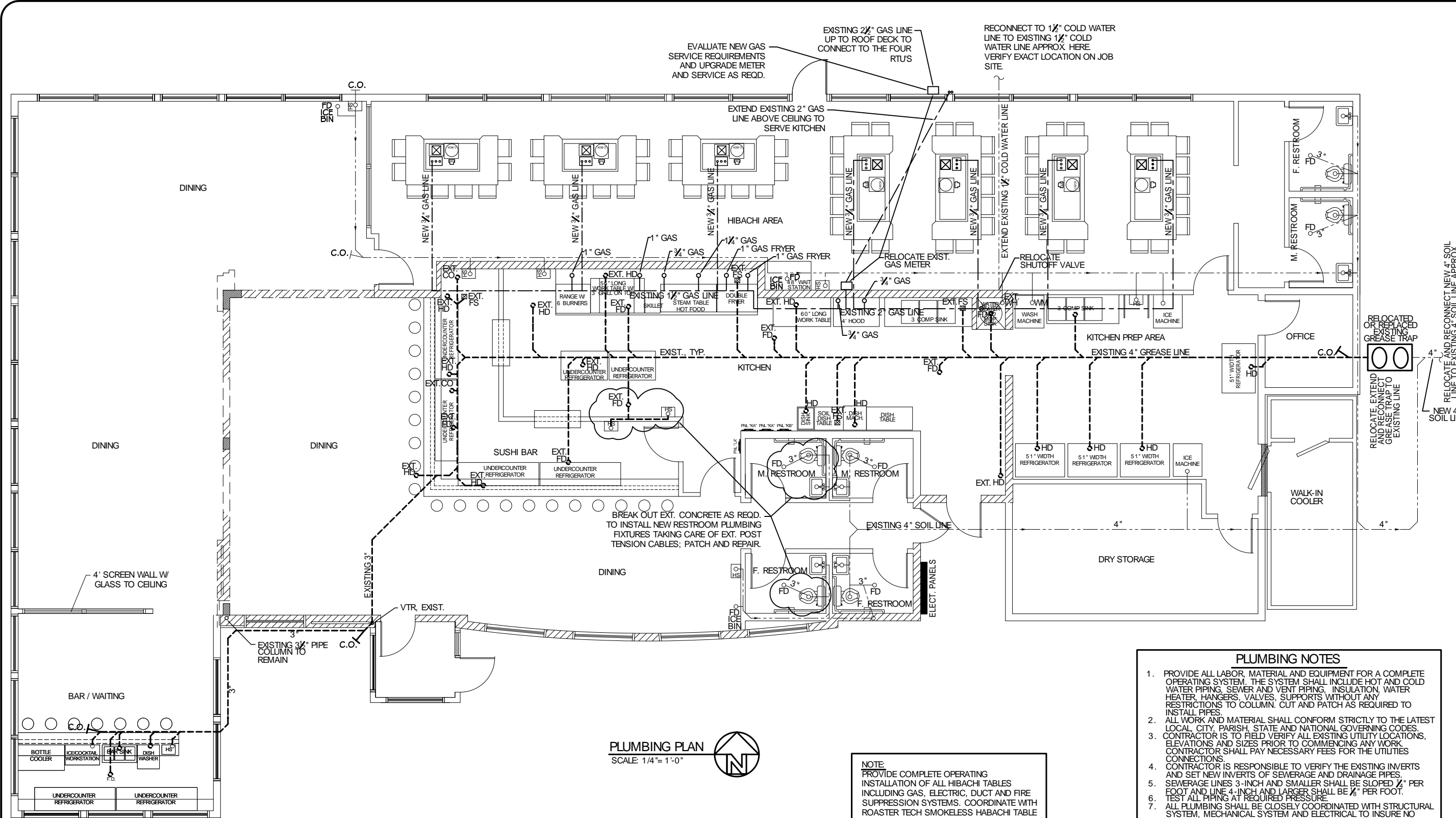
JOB#: 1943

DATE: 7-25-08

SHEET 21

P-1

OF 22



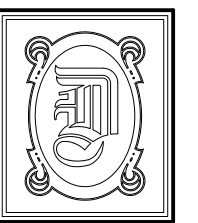
PLUMBING PLAN
SCALE: 1/4" = 1'-0"

NOTE:
FOR PLUMBING SCHEDULE, ONE
LINE DIAGRAM AND DETAILS SEE
SHEET P-2.

EXISTING WALLS TO REMAIN

NOTE:
PROVIDE COMPLETE OPERATING
INSTALLATION OF ALL HIBACHI TABLES
INCLUDING GAS, ELECTRIC, DUCT AND FIRE
SUPPRESSION SYSTEMS. COORDINATE WITH
ROASTER TECH SMOKELESS HIBACHI TABLE
MODEL TGU-08 AND TGU-010. PROVIDE
COMPLETE OPERATING FIRE SUPPRESSION
SYSTEM EQUAL TO KIDDE WET CHEMICAL
SYSTEM WHDR-260 TO INCLUDE ALL FIRE
MARSHALL REVIEW DOCUMENTS.

- PLUMBING NOTES**
1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO COLUMN. CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
 2. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL, CITY, PARISH, STATE AND NATIONAL GOVERNING CODES.
 3. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
 4. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
 5. SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/8" PER FOOT AND LINE 4-INCH AND LARGER SHALL BE 1/4" PER FOOT.
 6. TEST ALL PIPING AT REQUIRED PRESSURE.
 7. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEM, MECHANICAL SYSTEM AND ELECTRICAL TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
 8. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
 9. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
 10. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K SOFT ANNEAL. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
 11. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE L, HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPING USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER.
 12. SOIL, WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHEDULE 40 OR ABS DWV PIPES AND FITTINGS WHERE PERMITTED BY CODE.
 13. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION AND JACKET.
 14. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
 15. ALL PLUMBING LINES SHOWN ARE DIAGRAMMATIC.



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RESTAURANT RENOVATION

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MECHANICAL PLAN

REV:

SCALE: AS NOTED

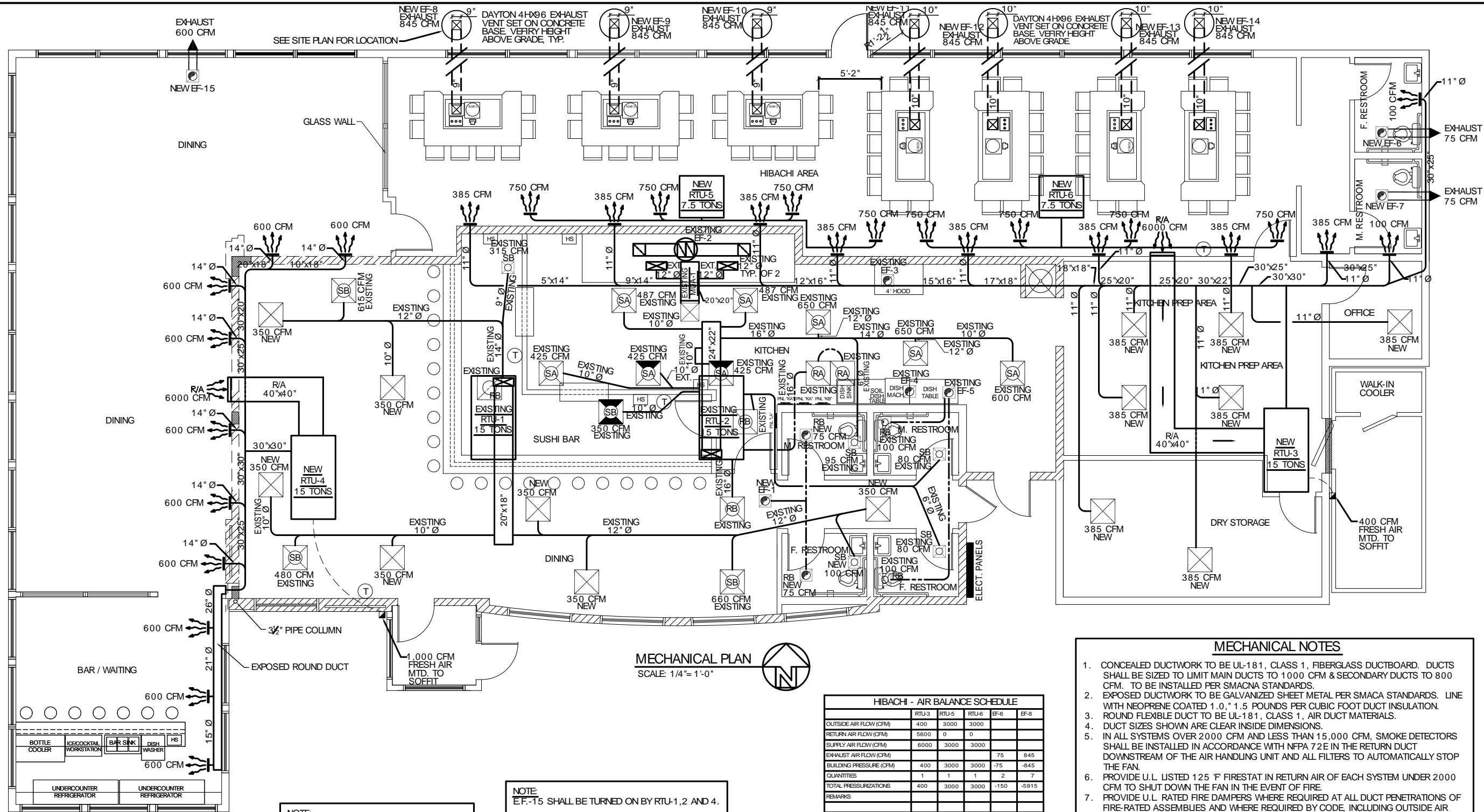
JOB#: 1943

DATE: 7-25-08

SHEET 17

M-1

OF 22



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

HIBACHI - AIR BALANCE SCHEDULE

	RTU-3	RTU-5	RTU-6	EF-6	EF-8
OUTSIDE AIR FLOW (CFM)	400	3000	3000		
RETURN AIR FLOW (CFM)	5600	0	0		
SUPPLY AIR FLOW (CFM)	6000	3000	3000		
EXHAUST AIR FLOW (CFM)				75	845
BUILDING PRESSURE (CFM)	-400	3000	3000	-75	-845
QUANTITIES	1	1	1	2	7
TOTAL PRESSURIZATIONS	400	3000	3000	-150	-5915
REMARKS					
RESULTING BUILDING PRESSURIZATION (CFM)	+ 335				

RESTAURANT - AIR BALANCE SCHEDULE

	RTU-1	RTU-4	EF-1	EF-2	EF-3	EF-4	EF-5	EF-15
OUTSIDE AIR FLOW (CFM)	1110	1000		2880				
RETURN AIR FLOW (CFM)	4890	5000						
SUPPLY AIR FLOW (CFM)	6000	6000						
EXHAUST AIR FLOW (CFM)			150	3840	750	450	200	600
BUILDING PRESSURE (CFM)	1110	1000	-150	-960	-750	-450	-200	-600
QUANTITIES	2	1	1	1	1	1	1	1
TOTAL PRESSURIZATIONS	2220	1000	-150	-960	-750	-450	-200	-600
REMARKS								
RESULTING BUILDING PRESSURIZATION (CFM)	+ 110							

KITCHEN HOOD SYSTEM NOTES

- SUBCONTRACTOR TO SUBMIT SHOP DRAWINGS AND REVIEW PACKAGE SUITABLE FOR FIRE MARSHAL KITCHEN HOOD REVIEW.
- SUBCONTRACTOR TO SUBMIT SHOP DRAWINGS AND REVIEW PACKAGE SUITABLE FOR FIRE MARSHAL KITCHEN HOOD CHEMICAL FIRE SUPPRESSION SYSTEM REVIEW.
- PROVIDE GAS SHUTOFF VALVE FOR ALL EQUIPMENT UNDER HOOD CONNECTED TO HOOD EXHAUST SYSTEM.
- PROVIDE SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER HOOD CONNECTED TO HOOD EXHAUST SYSTEM.

HVAC UNIT SCHEDULE

NO.	COOLING CAPACITY BTU/HR	CFM	O.A.	HEAT ELEC.	ELECTRICAL			COMMENTS
					VOLTAGE	MICA	CKT BRKR	
1	180,000	6,000	1110	15 KW	208V,3Ø	37.4	MP-2,4,6	EXISTING RTU 15 TONS
2	180,000	6,000	1110	15 KW	208V,3Ø	37.4	MP-8,10,12	EXISTING RTU 15 TONS
3	180,000	6,000	400	15 KW	208V,3Ø	37.4	MP-13,15,17	NEW RTU 15 TONS
4	180,000	6,000	1000	15 KW	208V,3Ø	37.4	MP-14,16,18	NEW RTU 15 TONS
5	90,000	3,000	3000	15 KW	208V,3Ø	88.3	MP-19,21,23	NEW RTU 7.5 TONS, INTERCON. W/ EF-8 THRU 11
6	90,000	3,000	3000	15 KW	208V,3Ø	88.3	MP-20,22,24	NEW RTU 7.5 TONS, INTERCON. W/ EF-12 THRU 14

EXHAUST FAN SCHEDULE

LOC	CFM	VOLTAGE	TYPE	MANF.
TOILETS	SEE DWG	120	VENT/LIGHT	-
EF-1	150	120	VENT	GREENHECK
EF-2	3840	120	HOOD	EXIST.
EF-3	750	120	HOOD	EXIST.
EF-4	450	120	HOOD	EXIST.
EF-5	200	120	VENT	GREENHECK
EF-6	150	120	VENT	GREENHECK
EF-7	150	120	VENT	GREENHECK
EF-8	845	120	HIBACHI TBL	ROASTER TEC
EF-9	845	120	HIBACHI TBL	ROASTER TEC
EF-10	845	120	HIBACHI TBL	ROASTER TEC
EF-11	845	120	HIBACHI TBL	ROASTER TEC
EF-12	845	120	HIBACHI TBL	ROASTER TEC
EF-13	845	120	HIBACHI TBL	ROASTER TEC
EF-14	845	120	HIBACHI TBL	ROASTER TEC
EF-15	600	120	VENT	GREENHECK

NOTE:
FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING. ALL THERMOSTATS MUST BE PROGRAMMABLE. SEE SECTIONS 502.4.4 OR 503.2.4.3 2006 INTERNATIONAL ENERGY CODE.

NOTE:
EF-15 SHALL BE TURNED ON BY RTU-1,2 AND 4.

- LEGEND**
- EXISTING WALLS TO REMAIN
 - WALL MTD. A/C DIFFUSER
 - RETURN AIR
 - THERMOSTAT
 - CEILING DIFFUSER (LAY-IN); EXISTING
 - CEILING RETURN (LAY-IN); EXISTING
 - CEILING EXHAUST (SURFACE - MOUNT); EXISTING
 - CEILING DIFFUSER (LAY-IN); EXISTING
 - CEILING DIFFUSER (LAY-IN); EXISTING