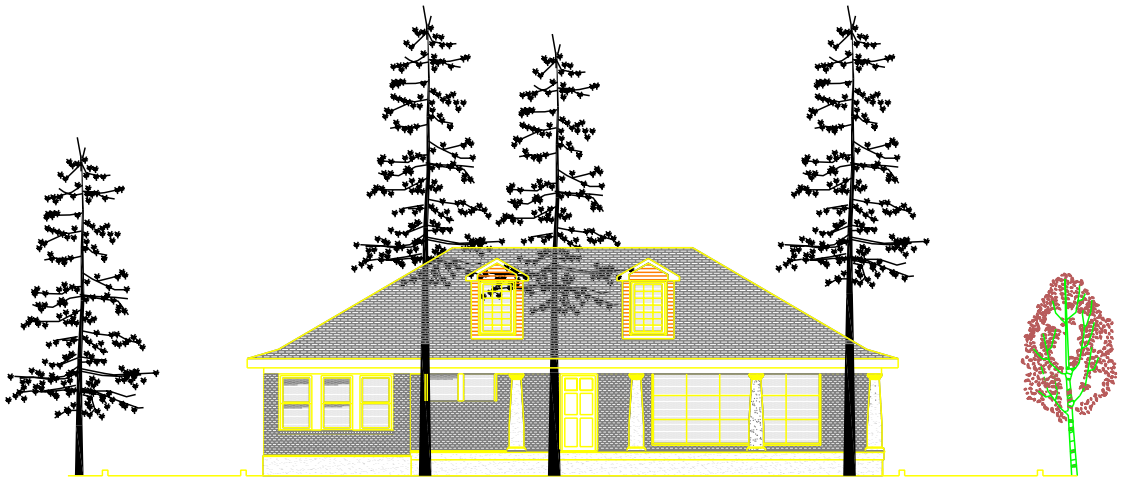


DENTAL OFFICE
735 ASBURY DRIVE

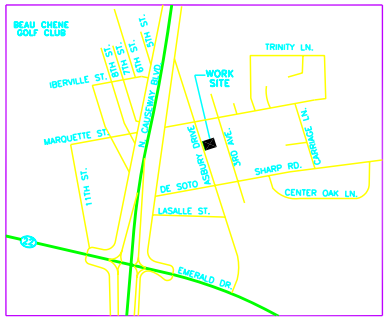
INTERNATIONAL BUILDING CODE

OCCUPANCY: B–NONSEPARATED USE
BUILDING AREA: 2,159 SQ. FT.
BUILDING HEIGHT: 20'–7 1/4"
CONSTRUCTION TYPE V B

(TABLE 503) ALLOWABLE 9,000 SQ. FT. TWO STORIES
(TABLE 601) FIRE RESISTANCE RATING:
STRUCTURAL FRAME–0 HRS.
BEARING WALLS (INTERIOR & EXTERIOR)–0 HRS.
FLOOR CONSTRUCTION–0 HRS.
ROOF CONSTRUCTION–0 HRS.
(TABLE 602) FIRE RESISTANCE RATING FOR EXTERIOR WALLS–
0 HRS.–ALL EXTERIOR WALLS
(TABLE 704.8) MAX AREA OF WALL OPENINGS
UNLIMITED UNPROTECTED OPENINGS
ALLOWED THROUGHOUT.
(IBC 1603.1.4) THIS BUILDING SHALL BE DESIGNED IN ACCORDANCE
WITH IBC SECTION 1609 AS A PARTIALLY ENCLOSED
BUILDING USING THE FOLLOWING INFORMATION:
(IBC FIG. 1609) – BASIC WIND SPEED (3 SECOND GUSTS)–130 MPH
(TABLE 1604.5) – CATEGORY I BUILDING, IW=1
(IBC 1609.4) – EXPOSURE B
– DETERMINATION OF WIND LOADS SHALL BE IN
ACCORDANCE WITH IBC 1609.6

DRAWING INDEX

C–1	SITE PLAN	A–4	EQUIPMENT LAYOUT
C–2	DRAINAGE PLAN	E–1	LIGHTING PLAN
C–3	SILT FENCE DETIALS	E–2	POWER PLAN
S–1	FOUNDATION PLAN	M–1	MECHANICAL PLAN
A–1	FLOOR PLAN	P–1	PLUMBING PLAN
A–2	SECTIONS	H–1	HANDICAP DETAILS
A–3	ELEVATIONS	H–2	HANDICAP DETAILS
A–4	ELEVATIONS		



VICINITY MAP
N.T.S.

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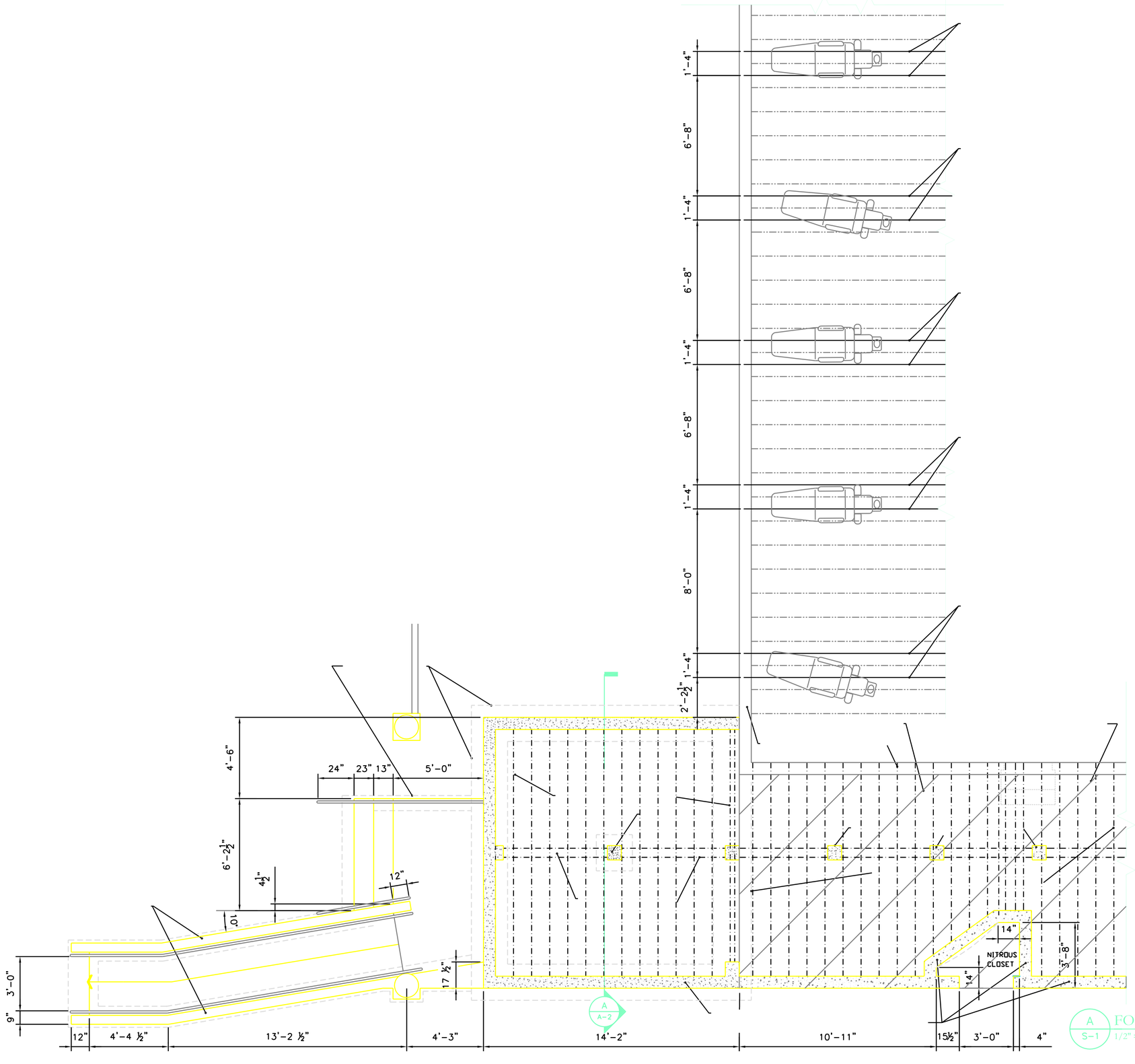
DR. LISA LANDESMAN
LOTS: 5-7 & 34-36, SQUARE: 22
735 ASBURY DRIVE
MANDEVILLE, LOUISIANA

DATE: 10-20-04
JOB NO.



A S-1 FOUNDATION AND FRAMING FOR ADDITION
1/2" = 1'-0"

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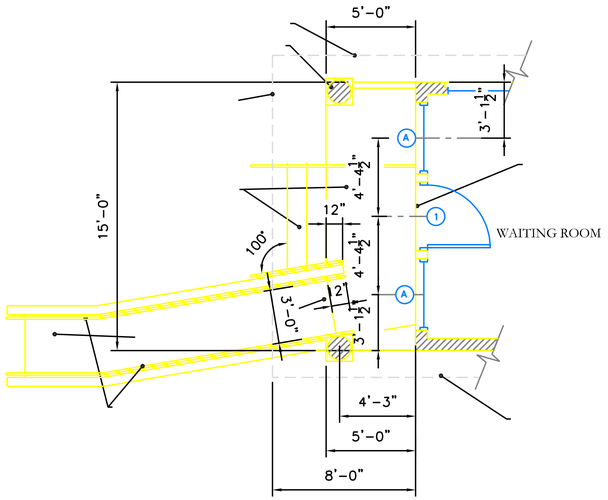
FOUNDATION

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

SCALE:1/2"
FILE:
JOB NO.
DATE:10-04-04
SHEET
S-1

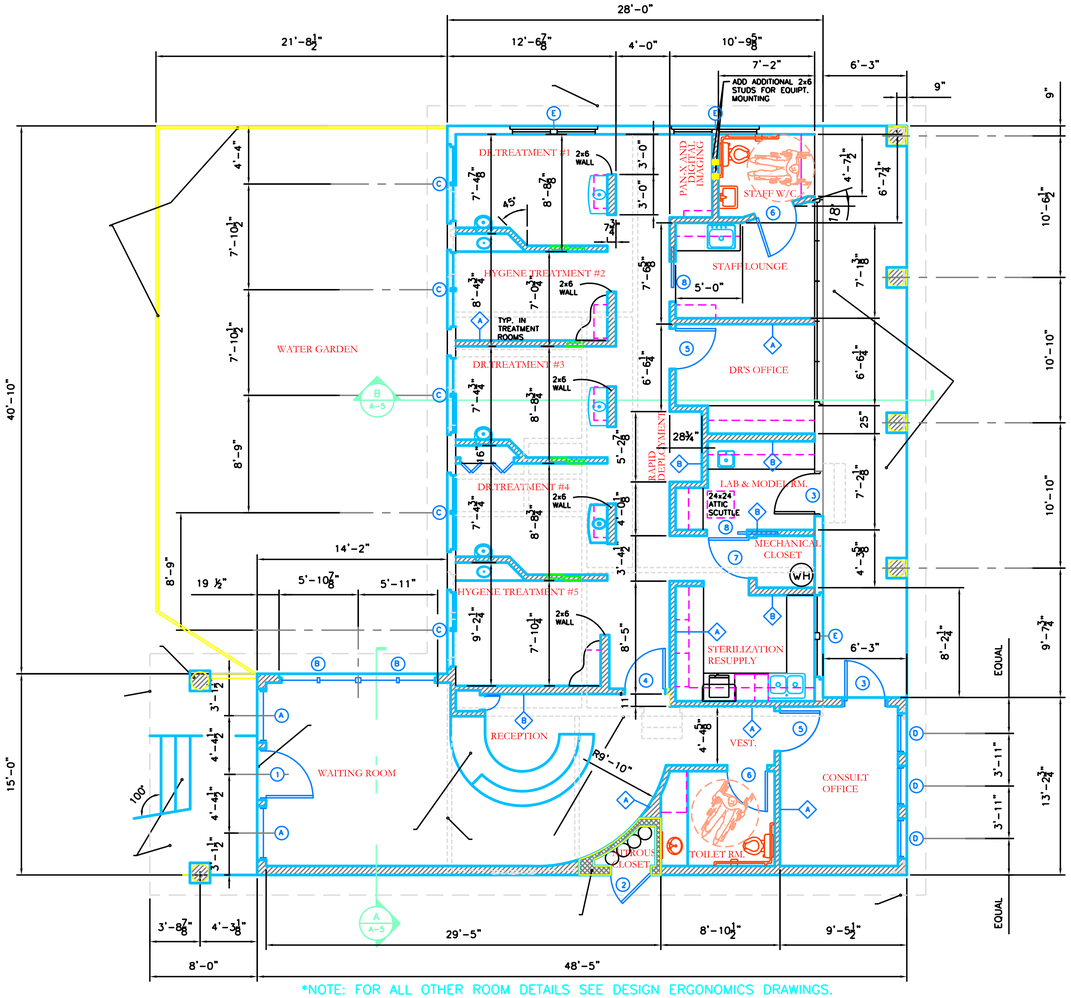


REAR PORCH PLAN

1/4"=1'-0"

GENERAL NOTES

1. HANDICAP UNITS – TOILETS SHALL CONFORM TO THE FOLLOWING.
   A. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON, AND SHALL HAVE CLEARANCE BELOW FOR HANDICAP KNEE AND TOE. RIM OF LAVATORY SHALL BE NOT MORE THAN 34" HIGH.
   B. HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR COVERED.
   C. FAUCETS SHALL BE HANDLE ACTIVATED.
   D. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NOT MORE THAN 40" FROM THE FLOOR.
   E. HANDRAILS & GRAB BARS SHALL COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT.
      1. GRAB BARS AT TOILET – REAR 36", 33"–36" ABOVE FLOOR, SIDE 42" 33"–36" ABOVE FLOOR.
   F. WATER CLOSETS SHALL BE LOCATED WITH CENTER LINE 18" FROM SIDE WALL WITH BARS.
2. INSULATION AND INSULATION ASSEMBLES SHALL MEET THE REQUIREMENTS OF SECTION 718, INTERNATIONAL BUILDING CODE, 2000
   A. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 & A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450.
   B. FACING SHALL COMPLY WITH IBC 718.2.1
3. PROVIDE 5'X5' LANDINGS OUTSIDE EXTERIOR DOORS LEVEL WITH THE FLOOR. THRESHOLDS SHALL BE NOT MORE THAN 1/2" IN HEIGHT AND SHALL BE BEVELED IF MORE THAN 1/4". ALL GROUND AND FLOOR SURFACES SHALL BE NON SLIP.
4. DIMENSIONS ARE TO CENTER LINE OR FACE OF STUDS, CENTER LINES OF COLUMNS OR FACE OF VINYL.
5. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND BUILDING LOCATION PRIOR TO CONSTRUCTION & VERIFY ALL DIMENSIONS.
6. MATERIALS SHALL BE NEW AND U.L. LISTED.
7. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
8. CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE AND LOCAL CODES.
9. CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR.
10. CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
11. EXTERIOR CAULKING SHALL BE THIOKAL CAULK.
12. PAINT GRADE TO BE SHERWIN WILLIAMS OR EQUIVALENT. ALL WORK TO RECEIVE 3 COATS. COLOR SELECTION BY OWNER.
13. PROVIDE CLEAN–UP ON A REGULAR BASIS. NO TRASH STORED IN BUILDING.
14. ALL BATT INSULATION SHALL HAVE A CLASS "A" (0–25) FLAME SPREAD IN COMPLIANCE WITH APPLICABLE CODE.
15. USE 6" STUDS AT ALL PLUMBING WALLS.
16. PROVIDE GAL. METAL PAN WITH DRAIN AT WATER HEATER LOCATION.
17. ALL CORNERS SHALL BE PROPERLY BRACED FOR WIND LOADS. A 48" SHEATING SHALL BE PROVIDED EVERY 20 FEET OF WALL LENGTH.
18. FLOORING SHALL BE NON–SLIP.
19. LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY (INTERIOR SIDE). SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.



*NOTE: FOR ALL OTHER ROOM DETAILS SEE DESIGN ERGONOMICS DRAWINGS.

FLOOR PLAN

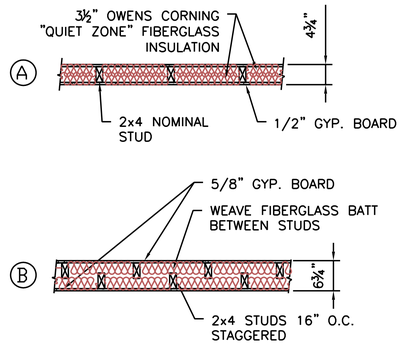
3/16"=1'-0"

CONTRACTOR NOTE!

EACH CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTIONOF A MAIN WIND–FORCE –RESISTING COMPONENT OF THIS BUILDING AND SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF THE WORK ON THAT COMPONENT. (IBC 1706.3)

1858 SQ. FT.--LIVING AREA
301 SQ. FT.--PORCHES
2159 TOTAL SQUARE FEET

20. INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0–200 EXCEPT IN CORRIDORS WHICH SHALL HAVE A FLAME SPREAD OF 0–75 AND A SMOKE DEVELOPMENT RATING OF 0–450.
21. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL STATE AND NATIONAL CODES THAT COVER THE SECTION OF WORK BEING PERFORMED.
22. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. SEE APPENDIX "E" OF NFPA 10 FOR DISTRIBUTION OF EXTINGUISHERS.
23. ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF SHEATING & SEALED WITH APPROVED FIRE CAULK.
24. ALL ELECTRICAL, MECHANICAL & PLUMBING PENTRATING 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.)



NOTE: ALL WALL TO BE 2x4 FRAMED w/⅝" GYP. BOARD UNLESS NOTED OTHERWISE

WALL TYPES

N.T.S.

DETAILED BUILDING REQUIREMENTS
(MAIN WIND FORCE RESISTING COMPONENTS)

- THIS BUILDING IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIRMENTS SET FORTH IN IBC CHAPTER 23 MANUAL FOR ONE–AND TWO–FAMILY DWELLINGS
- ROOF COVERING HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIRMENTS SET FORTH IN IBC SECTION 1507
- MASONRY VENEER HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN IBC CHAPTER 21
- VINYL SIDING SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3679 (IBC 1404.9)
- 1609.1.4 PROTECTION OF OPENINGS
- 7/16" THICK STRUCTURAL WOOD PANELS AND ATTACHMENT HARDWARE SHALL BE PROVIDED FOR BUILDING OCCUPANCY THE PANELS SHALL BE NUMBERED FOR EACH GLAZED OPENING AND SHALL BE STORED ON SITE PERMANENTLY (IBC 1609.1.4, EXCEPTION)

FLOOR PLAN

DENTAL OFFICE
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SCALE:3/16"

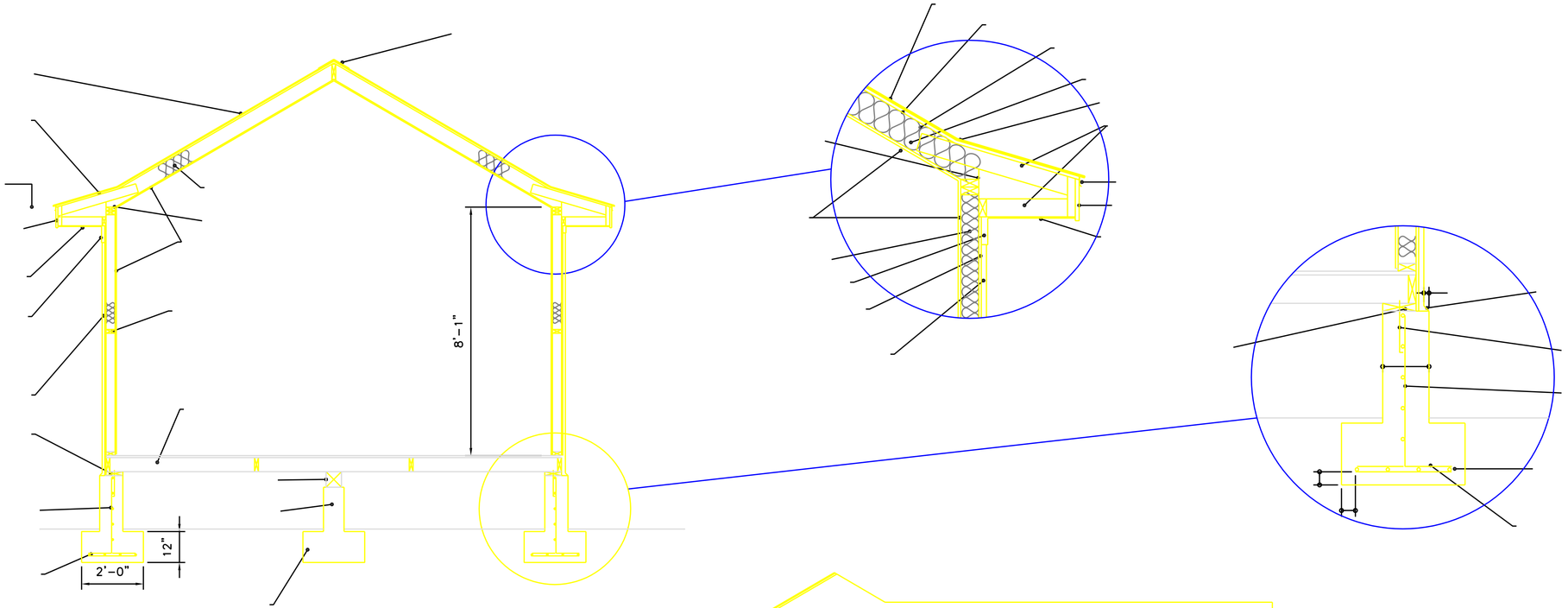
FILE:

JOB NO. 1623

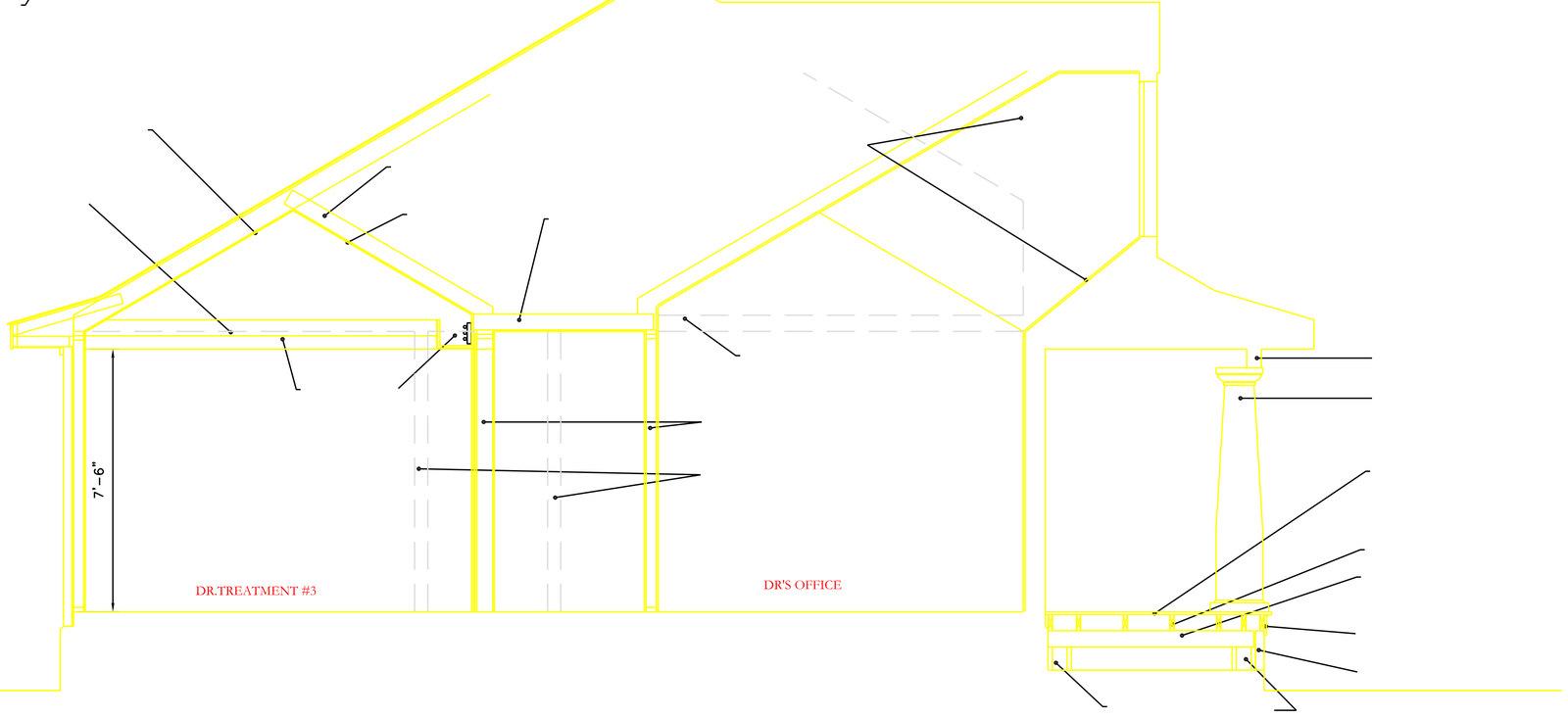
DATE:10–04–04

SHEET

A–1



A S-1 SECTION AT RECEPTION
1/2" = 1'-0"



B S-1 CROSS-SECTION
1/2" = 1'-0"

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SECTIONS

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

SCALE:1/2"
FILE:
JOB NO.
DATE:10-04-04
SHEET
A-2

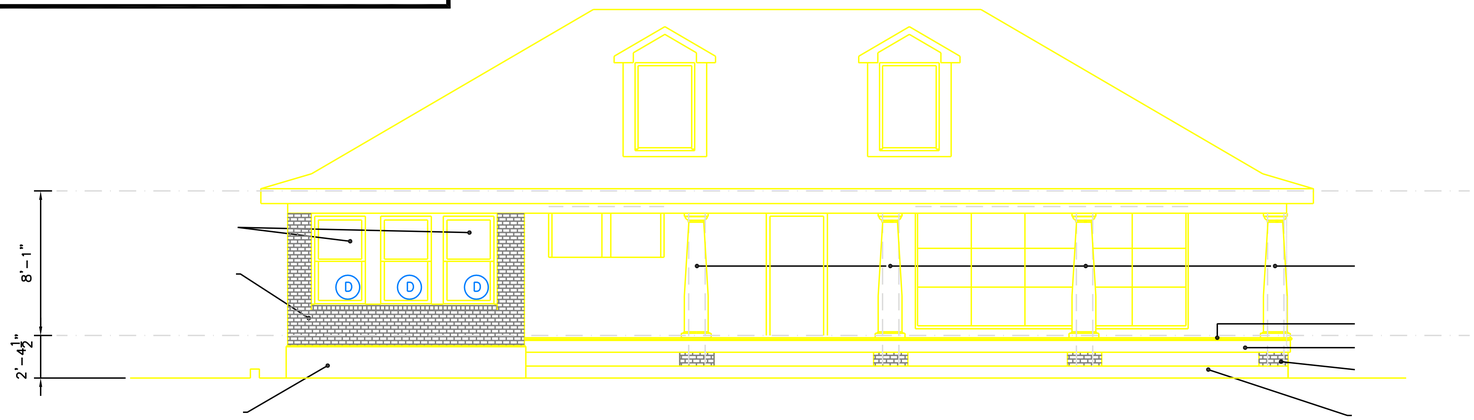
GENERAL NOTES:

PAINT EXPOSED EXTERIOR WOOD, i.e. FASCIA, DORMERS, WINDOW TRIM, ETC. BEING REUSED OR LEFT IN PLACE.

VERIFY CONDITION OF ROOFING AND SUBMIT ALTERNATE PRICE FOR REPLACING EXISTING ROOFING ALONG WITH THE FURNISHING AND INSTALLATION OF NEW ROOFING.

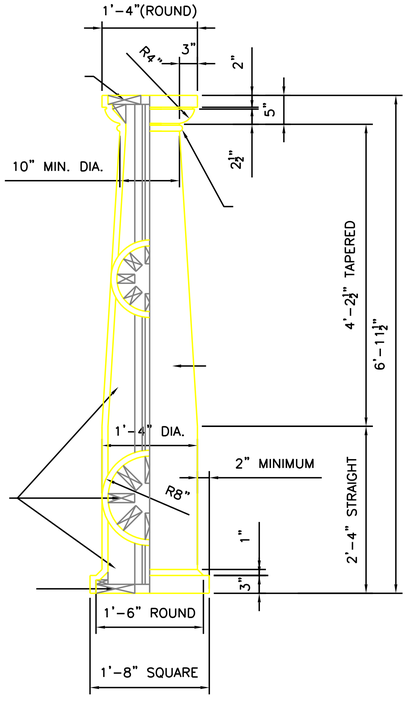
EXTERIOR FINISHES SHALL MATCH EXISTING IN MATERIAL QUALITY AND WORK-MANSHIP WHENEVER POSSIBLE. IF NEW FINISHES CANNOT MATCH EXISTING, THEN CONTACT ARCHITECT FOR ALTERNATIVES.

PLATE HEIGHTS AT ADDITION MAY HAVE TO BE ALTERED TO ACCOMODATE ROOF AND FASCIA ALIGNMENT.



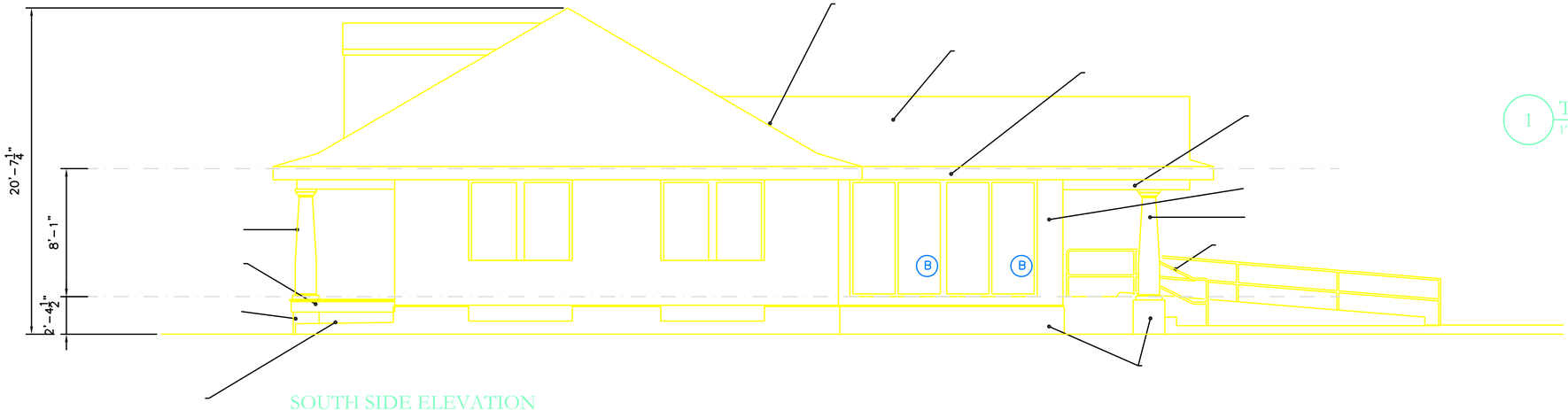
FRONT (ASBURY) ELEVATION

1/4" = 1'-0"



1 TYPICAL STUCCO COLUMN

1" = 1'-0"



SOUTH SIDE ELEVATION

1/4" = 1'-0"

ELEVATIONS

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SCALE:1/4"

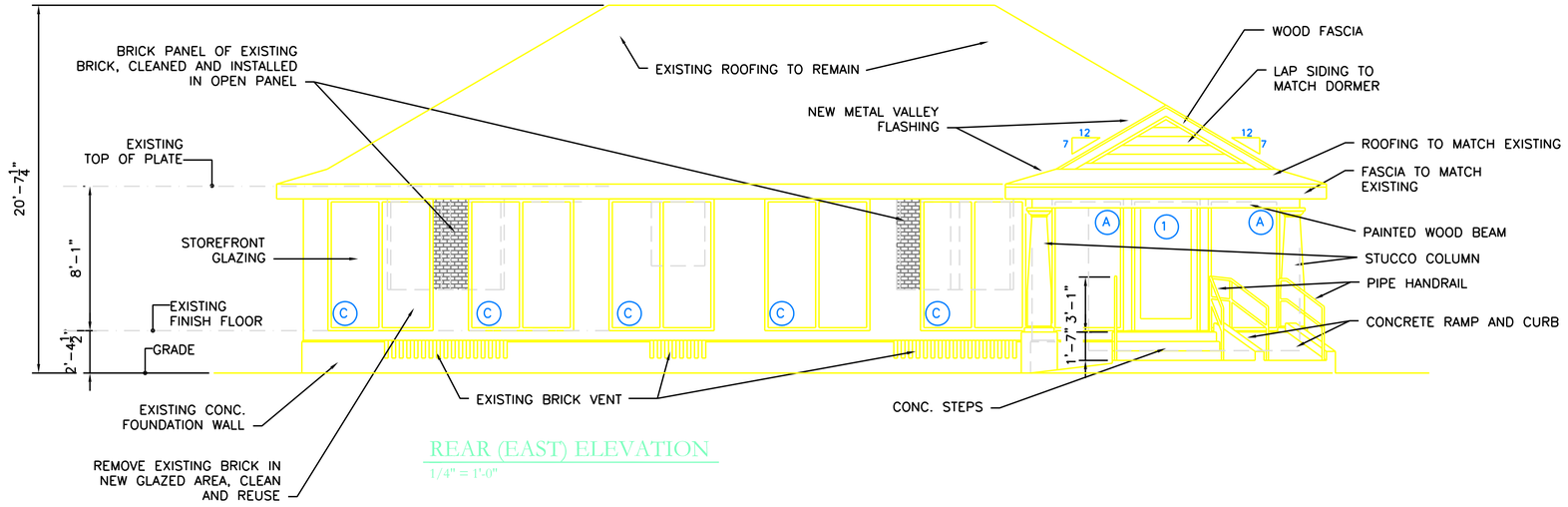
FILE:

JOB NO.

DATE:10-04-04

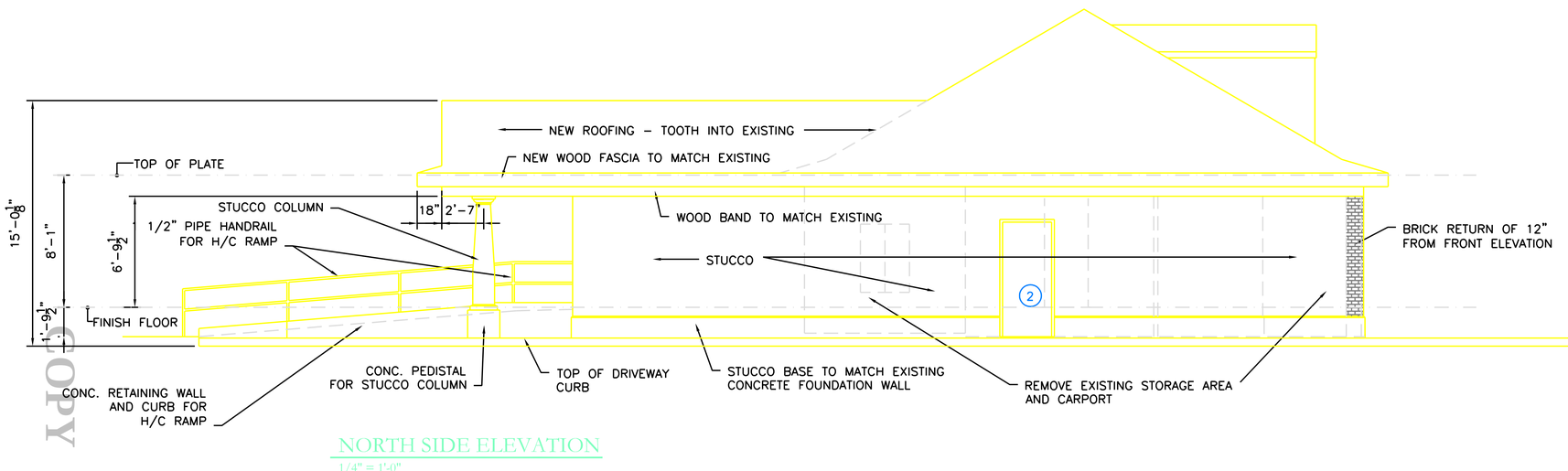
SHEET

A-3



REAR (EAST) ELEVATION

1/4" = 1'-0"



COPY

NORTH SIDE ELEVATION

1/4" = 1'-0"

ELEVATIONS

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SCALE:1/4"

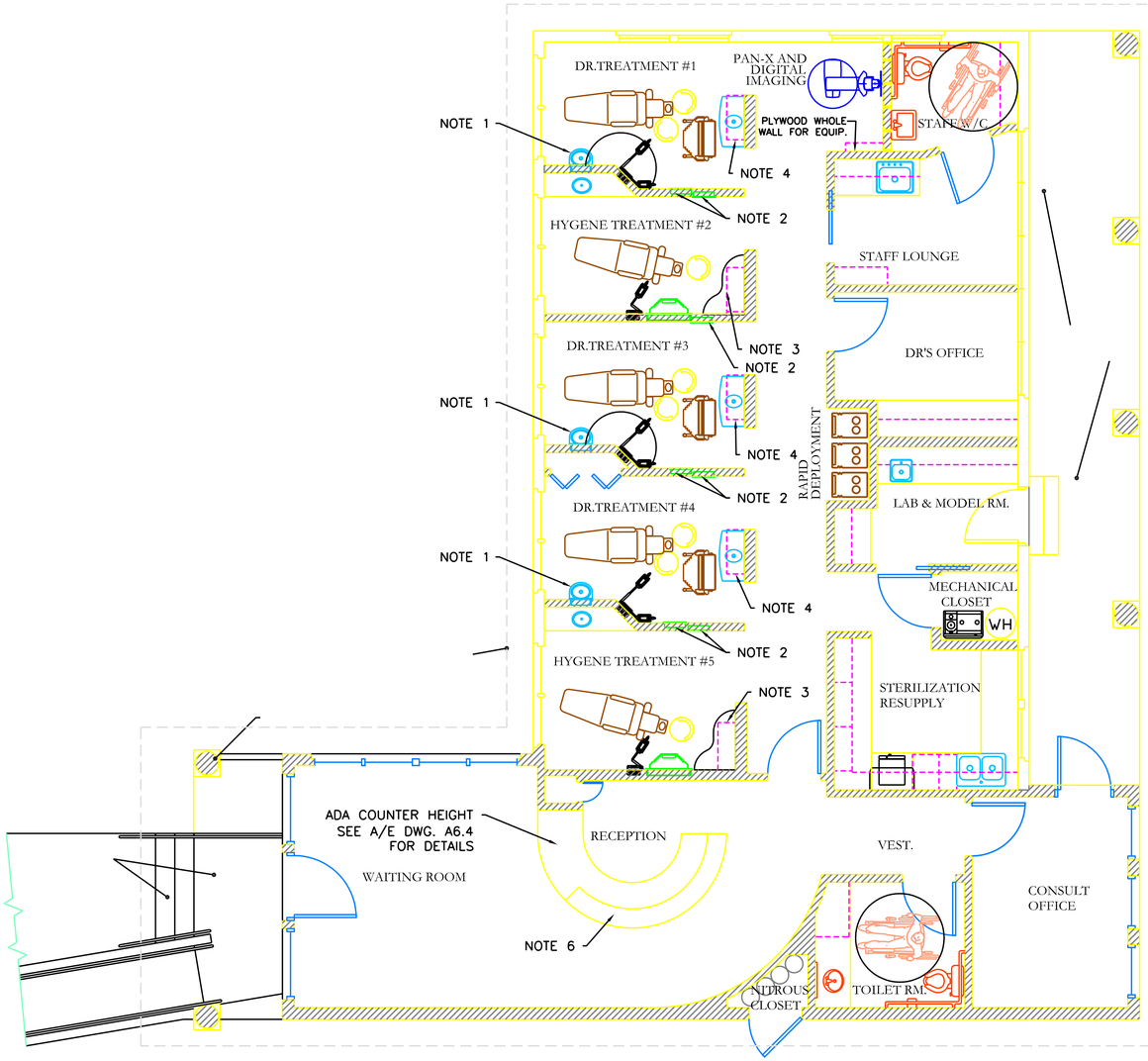
FILE:

JOB NO.

DATE:10-04-04

SHEET

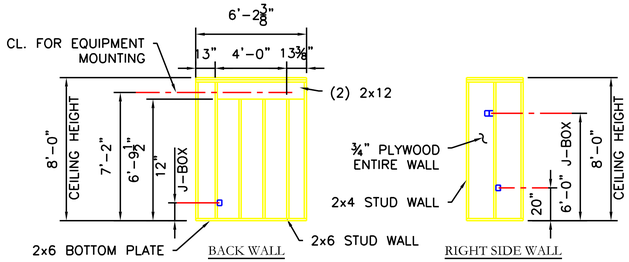
A-4



NOTE: SEE DESIGN ERGONOMICS DRAWINGS FOR EQUIPMENT AND ROOM ELEVATIONS. (DRAWING A6.0 THRU A6.5)

FINISH SCHEDULE

ROOM	FLOOR: CARPET	FLOOR: PERGO (LAM. WOOD)	FLOOR: CONCRETE	FLOOR: CERAMIC TILE	FLOOR: SHEET VINYL	BASE: VINYL	BASE: 4" WOOD	BASE: CERAMIC TILE	BASE: NONE	WALLS: BRD. BATTON PLYWOOD	WALLS: GYP BOARD	WALLS: CMU	WALLS: RESTORE EXIST.	CEILING: BEADED PLYWOOD	CEILING: GYP BOARD	CEILING: RESTORED EXIST.	CLG HT	REMARKS
WAITING ROOM				●			●				●				●		VAULT	
RECEPTION				●			●				●				●		VAULT	
VEST.				●			●				●				●		8'-0"	
TOILET ROOM				●				●			●				●		VAULT	
CONSULT OFFICE				●			●				●					●	VAULT	
MECH. CLOSET		●				●					●		●		●		8'-0"	
NITROUS CLOS.			●						●	●				●			8'-0"	
STERILIZATION					●		●				●		●			●	8'-0"	ARMSTRONG TIMBERLINE
LAB AND MODEL					●		●				●		●			●	8'-0"	ARMSTRONG TIMBERLINE
DR. OFFICE				●			●				●		●		●		VAULT	
STAFF LOUNGE					●		●				●		●			●	8'-0"	ARMSTRONG TIMBERLINE
STAFF W/C					●		●				●		●			●	8'-0"	ARMSTRONG TIMBERLINE
CORRIDOR					●		●				●				●		8'-0"	ARMSTRONG TIMBERLINE
TREATMENT #1					●		●				●				●		VAULT	ARMSTRONG TIMBERLINE
TREATMENT #2					●		●				●				●		VAULT	ARMSTRONG TIMBERLINE
TREATMENT #3					●		●				●				●		VAULT	ARMSTRONG TIMBERLINE
TREATMENT #4					●		●				●				●		VAULT	ARMSTRONG TIMBERLINE
TREATMENT #5					●		●				●				●		VAULT	ARMSTRONG TIMBERLINE
																		ARMSTRONG TIMBERLINE



PAN X-RAY WALL FRAME DETAIL

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

NOTE: SEE DESIGN ERGONOMICS DRAWINGS FOR ALL OTHER WALL DEATILS. (DRAWING A6.0 THRU A6.5)

DOOR & HARDWARE SCHEDULE

DOOR		TYPE: SOLID WOOD	TYPE: HOLLOW METAL	TYPE: WOOD 6 PANEL	TYPE: WOOD PANEL	TYPE: WOOD POCKET	TYPE: STORE FRONT	TYPE: WOOD w/GLASS	FRAME: STEEL	FRAME: ALUMINUM	FRAME: WOOD	FRAME: CASING	HINGE: DBL SWING	HINGE: BUTT	HINGE: POCKET TRACK	HINGE: BURGLERPRF	LOCK: PASSAGE	LOCK: PRIVACY	LOCK: DEADBOLT	LOCK: KEYED HANDLE	LOCK: PUSH PULL	LOCK: PANIC	ACCESSORIES: THRESHOLD	ACCESSORIES: WEATHERSTRIP	ACCESSORIES: DOOR STOP	ACCESSORIES: ALARM	ACCESSORIES: VIEW GLASS	ACCESSORIES: CLOSER	REMARKS
1	3/6x7/4x1 3/4"							●			●			●				●				●	●		●		●	
2	3/0x6/8x1 3/4"		●								●			●				●	●			●	●					MATCH EXISTING FRONT DOOR
3	3/0x6/8x1 3/4"			●							●			●				●	●			●	●		●		●	45 MIN. RATED
4	3/0x6/8x1 3/4"							●			●			●														
5	3/0x6/8x1 3/4"			●							●			●					●									
6	3/0x6/8x1 3/4"	●									●			●			●											
7	3/0x6/8x1 3/4"		●								●			●														
8	3/0x6/8x1 3/4"						●					●			●													
9	(4)1/0x6/8x1 3/4"											●																BY-FOLD

EQUIPMENT LAYOUT

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

NOTES:
1. FOR INWALL COUNTER STATION DETAISL REFER TO DESIGN ERGONOMICS DRAWING SI-5.
2. FOR ASSISTANT INWALL CABINET DETAILS REFER TO DESIGN ERGONOMICS DRAWING SI-2.
3. FOR RE-SUPPLY CABINET DETAILS REFER TO DESIGN ERGONOMINCS DRAWING SI-10.
4. FOR UNIVERSAL WALL WORK STATION CENTER DETAILS REFER TO DESIGN ERGONOMICS DRAWING SI-9.
5. FOR COMPUTER STORAGE CABINET DETAILS REFER TO DESIGN ERGONOMICS DRAWING SI-8.
6. FOR SECTION AND ELEVATIONS OF RECEPTION DESK REFRE TO DESIGN ERGONOMICS DRAWING A6.4.

WINDOW SCHEDULE

WINDOW		TYPE: FIXED	TYPE: VERTICAL SLIDE	TYPE: HORIZ SLIDE	TYPE: DBL. HUNG	FRAME: STEEL	FRAME: ALUMINUM	FRAME: PAINTED WOOD	FRAME: EXISTING	GLASS: REFLECTIVE	GLASS: TINTED	GLASS: PLAIN	GLASS: GLAZED	GLASS: WIREGLASS	LITES: NONE	LITES: 3/3	LITES: 4/4	LITES: 6/6	LITES: 8/8	ACCESSORIES: ALARM	ACCESSORIES: SCREEN	ACCESSORIES: SHUTTER	ACCESSORIES: NONE	ACCESSORIES: 7/16" WOOD PNLS	REMARKS
A	3/6x7/4	●					●					●	●		●										STOREFRONT
B	5/11x7/4	●					●			●			●		●										STOREFRONT
C	5/11x7/4	●					●			●			●		●										STOREFRONT
D	2/10x4/6				●			●	●						●					●					EXISTING RELOCATE
E	3/0x4/6				●															●					EXISTING

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EQUIPMENT LAYOUT

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

1/4"

FILE:

JOB NO.

DATE:10-04-04

SHEET
A-5

4.6 PARKING AND PASSENGER LOADING ZONES.

4.7 CURB RAMPS.

4.8 RAMPS.

4.9 STAIRS.

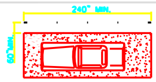

FIG. 10

ACCESS AISLE AT PASSENGER LOADING ZONES

N.T.S.

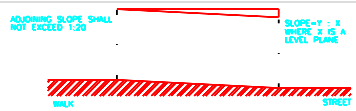

FIG. 11

MEASUREMENT OF CURB RAMP SLOPES

N.T.S.

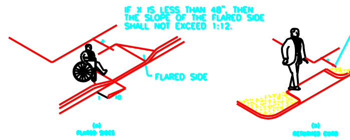

FIG. 12

SIDES OF CURB RAMPS

N.T.S.

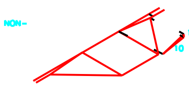

FIG. 13

BUILT-UP CURB RAMP

N.T.S.

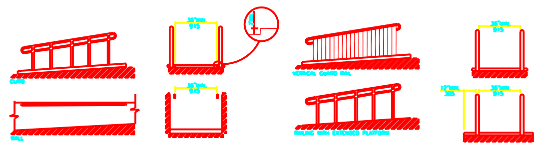

FIG. 17

EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS

N.T.S.

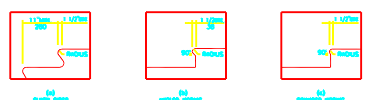

FIG. 18

USEABLE TREAD WIDTH AND EXAMPLES OF ACCEPTABLE NOSINGS

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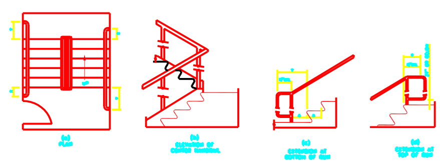

FIG. 19

STAIR HANDRAILS

N.T.S.

4.10 ELEVATORS.

$$T=D/(1.5'/S) \text{ OR } T=D/(445mm/S)$$

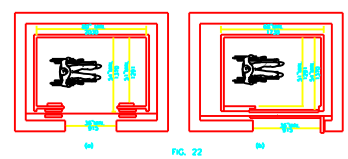

FIG. 22

MINIMUM DIMENSION OF ELEVATOR CARS

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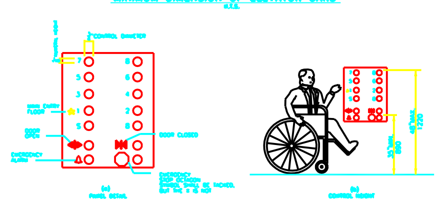

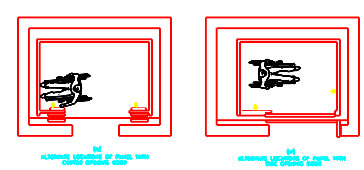

FIG. 23

CAR CONTROLS

N.T.S.

4.11 PLATFORM LIFTS (WHEELCHAIR LIFTS).

4.12 WINDOWS.

4.13 DOORS.

4.14 ENTRANCES.

4.15 DRINKING FOUNTAINS AND WATER COOLERS.

HANDICAP DETAILS

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SCALE: AS NOTED

FILE:

JOB NO.

DATE: 10-20-04

SHEET

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OF

4.16 WATER CLOSETS.

4.16.1 GENERAL. ACCESSIBLE WATER CLOSETS SHALL COMPLY WITH 4.16.

4.16.2 CLEAR FLOOR SPACE. CLEAR FLOOR SPACE FOR WATER CLOSETS NOT IN STALLS SHALL COMPLY WITH 4.16. CLEAR FLOOR SPACE MAY BE ARRANGED TO ALLOW EITHER A LEFT-HANDED OR RIGHT-HANDED APPROACH.

4.16.3* HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" (430mm TO 485mm), MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION (SEE FIG. 31).

4.16.4* GRAB BARS. GRAB BARS FOR WATER CLOSETS NOT LOCATED IN STALL SHALL COMPLY WITH 4.26 AND FIG. 31. THE GRAB BAR BEHIND THE WATER CLOSET SHALL BE 36" (915mm) MINIMUM.

4.16.5* FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH 4.27.4. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44" (1120mm) ABOVE THE FLOOR.

4.16.6 DISPENSERS. TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN REACH, AS SHOWN IN FIG. 31. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW, SHALL NOT BE USED.

4.17 TOILET STALLS.

4.17.1 LOCATION. ACCESSIBLE TOILET STALLS SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL MEET THE REQUIREMENTS OF 4.17.

4.17.2 WATER CLOSETS. WATER CLOSETS IN ACCESSIBLE STALLS SHALL COMPLY WITH 4.16.

4.17.3* SIZE AND ARRANGEMENT. THE SIZE AND ARRANGEMENT OF THE STANDARD TOILET STALL SHALL COMPLY WITH 4.17. STANDARD TOILET STALLS WITH A MINIMUM DEPTH OF 56" (1420mm) SHALL HAVE WALL-MOUNTED WATER CLOSETS. IF THE DEPTH OF A STANDARD TOILET STALL IS INCREASED AT LEAST 3" (75mm), THEN A FLOOR-MOUNTED WATER CLOSET MAY BE USED. ARRANGEMENTS SHOWN FOR STANDARD TOILET STALLS MAY BE REVERSED TO ALLOW EITHER A LEFT-OR RIGHT-HAND APPROACH. ADDITIONAL STALL SHALL BE PROVIDED IN CONFORMANCE WITH 4.22.4.
EXCEPTION: IN INSTANCES OF ALTERATION WORK WHERE PROVISION OF A STANDARD STALL IS TECHNICALLY INFEASIBLE OR WHERE PLUMBING CODE REQUIREMENTS PREVENT COMBINING EXISTING STALLS TO PROVIDE SPACE, OTHER ALTERNATE STALL, MAY BE PROVIDED IN LIEU OF THE STANDARD STALL.

4.17.4 TOE CLEARANCES. IN STANDARD STALLS, THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF AT LEAST 9" (230mm) ABOVE THE FLOOR. IF THE DEPTH OF THE STALL IS GREATER THAN 60" (1525mm), THEN THE TOE CLEARANCE IS NOT REQUIRED.

4.17.5* DOORS. TOILET STALL DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 4.13. IF TOILET STALL APPROACH IS FROM THE LATCH SIDE OF THE STALL DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION MAY BE REDUCED TO A MINIMUM OF 42" (1065mm).

4.17.6 GRAB BARS. GRAB BARS MAY BE MOUNTED WITH ANY DESIRED METHOD AS LONG AS THEY HAVE A GRIPPING SURFACE AT THE LOCATIONS SHOWN IN FIG. 31 AND DO NOT OBSTRUCT THE REQUIRED CLEAR FLOOR AREA. GRAB BARS SHALL COMPLY WITH 4.26.

4.18 URINALS.

4.18.1 GENERAL. ACCESSIBLE URINALS SHALL COMPLY WITH 4.18.

4.18.2 HEIGHT. URINALS SHALL BE STALL-TYPE OR WALL-HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" (430mm) ABOVE THE FINISH FLOOR.

4.18.3 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE 30" BY 48" (760mm BY 1220mm) SHALL BE PROVIDED IN FRONT OF URINALS TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.2.4. URINAL SHIELDS THAT DO NOT EXTEND BEYOND THE FRONT EDGE OF THE URINAL RIM MAY BE PROVIDED WITH 29" (735mm) CLEARANCE BETWEEN THEM.

4.18.4 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC, AND SHALL COMPLY WITH 4.27.4, AND SHALL BE MOUNTED NO MORE THAN 44" (1120mm) ABOVE THE FINISH FLOOR.

4.19 LAVATORIES & MIRRORS.

4.19.1 GENERAL. THE REQUIREMENTS OF 4.19 SHALL APPLY TO LAVATORY FIXTURES, VANITIES, AND BUILT-IN LAVATORIES.

4.19.2 HEIGHT & CLEARANCES. LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" (865mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" (735mm) ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON (SEE FIG. 31).

4.19.3 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE 30" BY 48" (760mm BY 1220mm) COMPLYING WITH 4.2.4 SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MINIMUM OF 19" (485mm) UNDERNEATH THE LAVATORY.

4.19.4 EXPOSED PIPES & SURFACES. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

4.19.5 FAUCETS. FAUCETS SHALL COMPLY WITH 4.27.4. LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.

4.19.6* MIRRORS. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40" (1015mm) ABOVE THE FINISH FLOOR (SEE FIG. 31).

4.20 BATHTUBS.

4.20.1 GENERAL. ACCESSIBLE BATHTUBS SHALL COMPLY WITH 4.20.

4.20.2 FLOOR SPACE. CLEAR FLOOR SPACE IN FRONT OF BATHTUBS SHALL COMPLY WITH 4.20.

4.20.3 SEAT. AN IN-TUB SEAT OR A SEAT AT THE HEAD END OF THE TUB SHALL BE PROVIDED AS SHOWN IN FIG. 34. THE STRUCTURAL STRENGTH OF SEATS AND THEIR ATTACHMENTS SHALL COMPLY WITH 4.26.3. SEATS SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.

4.20.4 GRAB BARS. GRAB BARS COMPLYING WITH 4.26 SHALL BE PROVIDED AS SHOWN IN FIG. 34.

4.20.5 CONTROLS. FAUCETS AND OTHER CONTROLS COMPLYING WITH 4.27.4 SHALL BE LOCATED AS SHOWN IN FIG. 34.

4.20.6 SHOWER UNIT. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" (1525mm) LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED.

4.20.7 BATHTUB ENCLOSURES. IF PROVIDED, ENCLOSURES FOR BATHTUBS SHALL NOT OBSTRUCT CONTROLS OR TRANSFER FROM WHEELCHAIRS ONTO BATHTUB SEATS OR INTO TUBS. ENCLOSURES ON BATHTUBS SHALL NOT HAVE TRACKS MOUNTED ON THEIR RIMS.

4.21 SHOWER STALLS.

4.21.1* GENERAL. ACCESSIBLE SHOWER STALLS SHALL COMPLY WITH 4.21.

4.21.2 SIZE & CLEARANCES. EXCEPT AS SPECIFIED IN 9.1.2, SHOWER STALL SIZE AND CLEAR FLOOR SPACE SHALL COMPLY WITH FIG. 34(a) OR (b). THE SHOWER STALL IN FIG. 34(a) SHALL BE 36" BY 36" (915mm BY 915mm). THE SHOWER STALL IN FIG. 34(b) WILL FIT INTO THE SPACE REQUIRED FOR A BATHTUB.

4.21.3 SEAT. A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36" BY 36" (915mm BY 915mm). THE SEAT SHALL BE MOUNTED 17" TO 19" (430mm TO 485mm) FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. IN A 36" BY 36" SHOWER STALL, THE SEAT SHALL BE ON THE WALL OPPOSITE THE CONTROLS. WHERE A FIXED SEAT IS PROVIDED IN A 30" BY 60" MINIMUM SHOWER STALL, IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. THE STRUCTURAL STRENGTH OF SEATS AND THEIR ATTACHMENTS SHALL COMPLY WITH 4.26.3.

4.21.4 GRAB BARS. GRAB BARS COMPLYING WITH 4.26 SHALL BE PROVIDED AS SHOWN IN FIG. 34.

4.21.5 CONTROLS. FAUCETS AND OTHER CONTROLS COMPLYING WITH 4.27.4 SHALL BE LOCATED AS SHOWN IN FIG. 34 IN SHOWER STALLS 36" BY 36" (915mm BY 915mm) ALL CONTROLS, FAUCETS, AND THE SHOWER UNIT SHALL BE MOUNTED ON THE SIDE WALL OPPOSITE THE SEAT.

4.21.6 SHOWER UNIT. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" (1525mm) LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER SHALL BE PROVIDED.

EXCEPTION: IN UNMONITORED FACILITIES WHERE VANDALISM IS A CONSIDERATION, A FIXED SHOWER HEAD MOUNTED AT 48" (1220mm) ABOVE THE SHOWER FLOOR MAY BE USED IN LIEU OF A HAND HELD SHOWER HEAD.

4.21.7 CURBS. IF PROVIDED, CURBS IN SHOWER STALLS 36" BY 36" (915mm BY 915mm) SHALL BE NO HIGHER THAN 1/2" (13mm). SHOWER STALLS THAT ARE 30" BY 60" (760mm BY 1525mm) SHALL NOT HAVE CURBS.

4.21.8 SHOWER ENCLOSURES. IF PROVIDED, ENCLOSURES FOR SHOWER STALLS SHALL NOT OBSTRUCT CONTROLS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

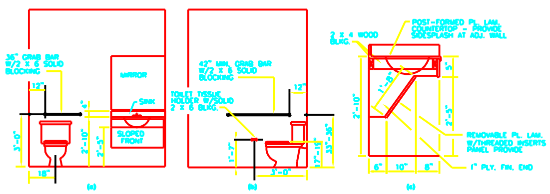

FIG. 31

LAVATORY & WATER CLOSET CLEARANCES

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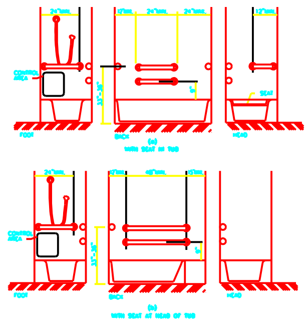


FIG. 34

GRAB BARS AT BATHTUBS

N.T.S.

4.22 TOILET ROOMS.

4.22.1 MINIMUM NUMBER. TOILET FACILITIES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.22. ACCESSIBLE TOILET ROOMS SHALL BE ON AN ACCESSIBLE ROUTE.

4.22.2 DOORS. ALL DOORS TO ACCESSIBLE TOILET ROOMS SHALL COMPLY WITH 4.13. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED FOR ANY FIXTURE.

4.22.3 CLEAR FLOOR SPACE. THE ACCESSIBLE FIXTURES AND CONTROLS REQUIRED IN 4.22.4, 4.22.5, 4.22.6, AND 4.22.7 SHALL BE ON AN ACCESSIBLE ROUTE. AN UNOBSTRUCTED TURNING SPACE COMPLYING WITH 4.2.3 SHALL BE PROVIDED WITHIN AN ACCESSIBLE TOILET ROOM. THE CLEAR FLOOR SPACE AT FIXTURES AND CONTROLS, THE ACCESSIBLE ROUTE, AND THE TURNING SPACE MAY OVERLAP.

EXCEPTION: IN TOILET ROOMS WITH ONLY ONE WATER CLOSET AND ONE LAVATORY, A CLEAR FLOOR SPACE OF 30" BY 60" (815mm BY 1525mm) MAY BE USED IN LIEU OF THE UNOBSTRUCTED TURNING SPACE.

4.22.4 WATER CLOSETS. IF TOILET STALLS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.17 ITS WATER CLOSET SHALL COMPLY WITH 4.16. IF WATER CLOSETS ARE NOT IN STALLS, THEN AT LEAST ONE SHALL COMPLY WITH 4.16.

4.22.5 URINALS. IF URINALS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.18.

4.22.6 LAVATORIES AND MIRRORS. IF LAVATORIES AND MIRRORS ARE PROVIDED, THEN AT LEAST ONE OF EACH SHALL COMPLY WITH 4.19.

4.22.7 CONTROLS AND DISPENSERS. IF CONTROLS, DISPENSERS, RECEPTACLES, OR OTHER EQUIPMENT IS PROVIDED, THEN AT LEAST ONE OF EACH SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.27.

4.23 BATHROOM, BATHING FACILITIES, AND SHOWER ROOMS.

4.23.1 MINIMUM NUMBER. BATHROOMS, BATHING FACILITIES, OR SHOWER ROOMS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.23 AND SHALL BE ON AN ACCESSIBLE ROUTE. FOR ADAPTABLE BATHROOMS IN ACCESSIBLE DWELLING UNITS, SEE 4.34.5.

4.23.2 DOORS. DOORS TO ACCESSIBLE BATHROOMS SHALL COMPLY WITH 4.13. DOORS SHALL NOT SWING INTO THE FLOOR SPACE REQUIRED FOR ANY FIXTURE.

4.23.3 CLEAR FLOOR SPACE. THE ACCESSIBLE FIXTURES AND CONTROLS REQUIRED IN 4.23.4, 4.23.5, 4.23.6, 4.23.7, 4.23.8, AND 4.23.9 SHALL BE ON AN ACCESSIBLE ROUTE. AN UNOBSTRUCTED TURNING SPACE COMPLYING WITH 4.2.3 SHALL BE PROVIDED WITHIN AN ACCESSIBLE BATHROOM. THE CLEAR FLOOR SPACES AT FIXTURES AND CONTROLS, THE ACCESSIBLE ROUTE AND THE TURNING SPACE MAY OVERLAP.

EXCEPTION: IN BATHROOMS WITH ONLY ONE WATER CLOSET, ONE LAVATORY, AND ONE BATHTUB OR SHOWER A CLEAR FLOOR SPACE OF 30" BY 60" (760mm BY 1525mm) MAY BE USED IN LIEU OF THE UNOBSTRUCTED TURNING SPACE.

4.23.4 WATER CLOSETS. IF TOILET STALLS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.17 ITS WATER CLOSET SHALL COMPLY WITH 4.16. IF WATER CLOSETS ARE NOT IN STALLS, THEN AT LEAST ONE SHALL COMPLY WITH 4.6.

4.23.5 URINALS. IF URINALS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.18.

4.23.6 LAVATORIES AND MIRRORS. IF LAVATORIES AND MIRRORS ARE PROVIDED, THEN AT LEAST ONE OF EACH SHALL COMPLY WITH 4.19.

4.23.7 CONTROLS AND DISPENSERS. IF CONTROLS, DISPENSERS, RECEPTACLES, OR OTHER EQUIPMENT IS PROVIDED, THEN AT LEAST ONE OF EACH SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.27.

4.23.8 BATHING AND SHOWER FACILITIES. IF TUBS, OR SHOWERS ARE PROVIDED, THEN AT LEAST ONE ACCESSIBLE TUB THAT COMPLIES WITH 4.20 OR AT LEAST ONE ACCESSIBLE SHOWER THAT COMPLIES WITH 4.21 SHALL BE PROVIDED.

4.23.9* MEDICINE CABINETS. IF MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44" (1120mm) ABOVE THE FLOOR SPACE. THE FLOOR SPACE SHALL COMPLY WITH 4.2.4.

4.24 SINKS.

4.24.1 GENERAL. SINKS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.24. SINKS IN KITCHENS OF ACCESSIBLE DWELLING UNITS SHALL COMPLY WITH 4.34.6.5.

4.24.2 HEIGHT. SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34" (865mm) FROM THE FINISHED FLOOR (SEE FIG. 31).

4.24.3 KNEE CLEARANCE. KNEE CLEARANCE THAT IS AT LEAST 27" (685mm) HIGH, 30" (760mm) WIDE, AND 19" (485mm) DEEP SHALL BE PROVIDED UNDERNEATH SINKS.

4.24.4 DEPTH. EACH SINK SHALL BE A MINIMUM OF 6-1/2" (165mm) DEEP.

4.24.5 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) COMPLYING WITH 4.2.4 SHALL BE PROVIDED IN FRONT OF A SINK TO ALLOW FORWARD APPROACH. THE CLEAR FLOOR SPACE SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL EXTEND A MINIMUM OF 19" (485mm) UNDERNEATH THE SINK.

4.24.6 EXPOSED PIPES AND SURFACES. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.

4.24.7 FAUCETS. FAUCETS SHALL COMPLY WITH 4.27.4. LEVER-OPERATED, PUSH-TYPE, TOUCH-TYPE, OR ELECTRONICAL CONTROLLED MECHANISMS ARE ACCEPTABLE DESIGNS.

4.25 STORAGE.

4.25.1 GENERAL. FIXED STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.25.

4.25.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) COMPLYING WITH 4.2.4 THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT ACCESSIBLE STORAGE FACILITIES.

4.25.3 HEIGHT. ACCESSIBLE STORAGE SPACES SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN 4.2.5 AND 4.2.6. CLOTHES RODS SHALL BE A MAXIMUM OF 54" (1370mm) FROM THE FLOOR.

4.25.4 HARDWARE. HARDWARE FOR ACCESSIBLE STORAGE FACILITIES SHALL COMPLY WITH 4.27.4 TOUCH LATCHES AND U-SHAPED PULLS ARE ACCEPTABLE.

4.26 HANDRAILS, GRAB BARS, AND TUB AND SHOWER SEATS.

4.26.1 GENERAL. ALL HANDRAILS, GRAB BARS, AND TUB AND SHOWER SEATS REQUIRED TO BE ACCESSIBLE BY 4.1, 4.8, OR 4.9 SHALL COMPLY WITH 4.26.

4.26.2* SIZE AND SPACING OF GRAB BARS AND HANDRAILS. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1 1/4" TO 1 1/2" (32mm TO 38mm) OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF HANDRAILS OR GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2" (38mm). HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" (75mm) DEEP AND EXTENDS AT LEAST 18" (455mm) ABOVE THE TOP OF THE RAIL.

4.26.3 STRUCTURAL STRENGTH. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:

(1) BENDING STRESS IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250LBF. (1112N) SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

(2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250LBF. (1112N) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.

(3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250LBF (1112N) SHALL BE NO LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

(4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250LBF. (1112N) PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250LBF. (1112N) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL AND THE SUPPORTING STRUCTURE.

(5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

4.26.4 ELIMINATING HAZARDS. A HANDRAIL OR GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8" (32mm).

4.27 CONTROLS AND OPERATING MECHANISMS.

4.27.1 GENERAL. CONTROLS AND OPERATING MECHANISMS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.27.

4.27.2 CLEAR FLOOR SPACE. CLEAR FLOOR SPACE COMPLYING WITH 4.2.4 THAT ALLOWS A FORWARD OR A PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT.

4.27.3* HEIGHT. THE HIGHEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN 4.2.5 AND 4.2.6. EXCEPT WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" (380mm) ABOVE THE FLOOR.

4.27.4 OPERATION. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2N).

4.28 ALARMS.

4.28.1 GENERAL. ALARM SYSTEMS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.28.

4.28.2 AUDIBLE ALARMS. IF PROVIDED, AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A SOUND THAT EXCEEDS THE PREVAILING EQUIVALENT SOUND LEVEL IN THE ROOM OR SPACE BY AT LEAST 15 DECIBELS OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 30 SECONDS BY 5 DECIBELS, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 DECIBELS.

4.28.3 VISUAL ALARMS. IF PROVIDED, ELECTRICALLY POWERED INTERNALLY ILLUMINATED EMERGENCY EXIT SIGNS SHALL FLASH AS A VISUAL EMERGENCY ALARM IN CONJUNCTION WITH AUDIBLE EMERGENCY ALARMS. THE FLASHING FREQUENCY OF VISUAL ALARM DEVICES SHALL BE LESS THAN 5HZ. IF SUCH ALARMS USE ELECTRICITY FROM THE BUILDING AS A POWER SOURCE THEN THEY SHALL BE INSTALLED ON THE SAME SYSTEM AS THE AUDIBLE EMERGENCY ALARMS.

EXCEPTIONS:

(1) VISUAL ALARM DEVICES THAT ARE MOUNTED ADJACENT TO EMERGENCY EXIT SIGNS MAY BE USED IN LIEU OF FLASHING EXIT SIGNS.

(2) SPECIALIZED SYSTEMS UTILIZING ADVANCED TECHNOLOGY MAY BE SUBSTITUTED FOR THE VISUAL SYSTEMS SPECIFIED ABOVE IF EQUIVALENT PROTECTION IS AFFORDED HANDICAPPED USERS OF THE BUILDING OR FACILITY.

4.28.4 AUXILIARY ALARMS. ACCESSIBLE SLEEPING ACCOMMODATIONS SHALL HAVE A VISUAL ALARM CONNECTED TO THE BUILDING EMERGENCY ALARM SYSTEM OR SHALL HAVE A STANDARD 110-VOLT ELECTRICAL RECEPTACLE INTO WHICH SUCH AN ALARM COULD BE CONNECTED. INSTRUCTIONS FOR USE OF THE AUXILIARY ALARM OR CONNECTION SHALL BE PROVIDED.

4.29 TACTILE WARNINGS.

4.29.1 GENERAL. TACTILE WARNINGS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.29.

4.29.2* TACTILE WARNINGS ON WALKING SURFACES. (RESERVED).

4.29.3* TACTILE WARNINGS ON DOORS TO HAZARDOUS AREAS. (RESERVED)

4.29.4 TACTILE WARNINGS AT STAIRS. (RESERVED)

4.29.5* TACTILE WARNINGS AT HAZARDOUS VEHICULAR AREAS. (RESERVED)

4.29.6* TACTILE WARNINGS AT REFLECTING POOLS. (RESERVED)

4.29.7* STANDARDIZATION. TEXTURED SURFACES FOR TACTILE DOOR WARNINGS SHALL BE STANDARD WITHIN A BUILDING, FACILITY, SITE, OR COMPLEX OF BUILDINGS.

4.30 SIGNAGE.

4.30.1 GENERAL. SIGNAGE REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.30.

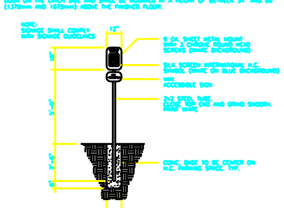
4.30.2 CHARACTER PROPORTION. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.

4.30.3* COLOR CONTRAST. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND-EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

4.30.4* RAISED OR INDENTED CHARACTERS OR SYMBOLS. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF CHARACTERS. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8" (16mm) HIGH, BUT NO HIGHER THAN 2" (50mm). INDENTED CHARACTERS OR SYMBOLS SHALL HAVE A STROKE WIDTH OF AT LEAST 1/4" (6mm). SYMBOLS OR PICTOGRAMS ON SIGNS SHALL BE RAISED OR INDENTED 1/32" MINIMUM.

4.30.5 SYMBOLS OF ACCESSIBILITY. ACCESSIBLE FACILITIES REQUIRED TO BE IDENTIFIED BY 4.1 SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SYMBOL SHALL BE DISPLAYED AS SHOWN IN FIG. 43.

4.30.6 MOUNTING LOCATION AND HEIGHT. INTERIOR SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT A HEIGHT OF BETWEEN 54" AND 66" (1370mm AND 1675mm) ABOVE THE FINISHED FLOOR.



EXTERIOR HANDICAP SIGN

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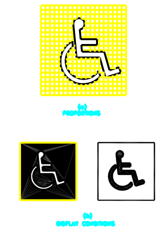


FIG. 43

INTERNATIONAL SYMBOL OF ACCESSIBILITY

N.T.S.

4.31 TELEPHONES.

4.31.1 GENERAL. PUBLIC TELEPHONES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.31.

4.31.2 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT TELEPHONES. THE CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 4.2.4. BASES, ENCLOSURES, AND FIXED SEATS SHALL NOT IMPEDE APPROACHES TO TELEPHONES BY PEOPLE WHO USE WHEELCHAIRS.

4.31.3* MOUNTING HEIGHT. THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE WITHIN THE REACH RANGES SPECIFIED IN 4.2.5 OR 4.2.6.

4.31.4 PROTRUDING OBJECTS. TELEPHONES SHALL COMPLY WITH 4.4.

4.31.5* EQUIPMENT FOR HEARING IMPAIRED PEOPLE. TELEPHONES SHALL BE EQUIPPED WITH A RECEIVER THAT GENERATES A MAGNETIC FIELD IN THE AREA OF THE RECEIVER CAP. VOLUME CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH 4.1.2.

4.31.6 CONTROLS. TELEPHONES SHALL HAVE PUSHBUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IS AVAILABLE.

4.31.7 TELEPHONE BOOKS. TELEPHONE BOOKS, IF PROVIDED, SHALL BE LOCATED IN A POSITION THAT COMPLIES WITH THE REACH RANGES SPECIFIED IN 4.2.5 AND 4.2.6.

4.31.8 CORD LENGTH. THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29".

4.32 SEATING, TABLES, AND WORK SURFACES.

4.32.1 MINIMUM NUMBER. FIXED OR BUILT IN SEATING, TABLES, OR WORK SURFACES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.32.

4.32.2 SEATING. IF SEATING SPACES FOR PEOPLE IN WHEELCHAIRS ARE PROVIDED AT TABLES, COUNTERS, OR WORK SURFACES, CLEAR FLOOR SPACE COMPLYING WITH 4.2.4 SHALL BE PROVIDED. SUCH CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 19" (485mm).

4.32.3 KNEE CLEARANCES. IF SEATING FOR PEOPLE IN WHEELCHAIRS IS PROVIDED AT TABLES, COUNTERS, AND WORK SURFACES, KNEE SPACES AT LEAST 27" (685mm) HIGH 30" (760mm) WIDE AND 19" (485mm) DEEP SHALL BE PROVIDED.

4.32.4* HEIGHT OF WORK SURFACES. THE TOPS OF TABLES AND WORK SURFACES SHALL BE FROM 28" TO 34" (710mm TO 865mm) FROM THE FLOOR OR GROUND.

4.33 ASSEMBLY AREAS.

4.33.1 MINIMUM NUMBER. ASSEMBLY AND ASSOCIATED AREAS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.33.

4.33.2* SIZE OF WHEELCHAIR LOCATIONS. EACH WHEELCHAIR LOCATION SHALL PROVIDE MINIMUM CLEAR GROUND OR FLOOR SPACES AS SHOWN IN FIG. 46.

4.33.3* PLACEMENT OF WHEELCHAIR LOCATIONS. WHEELCHAIR AREAS SHALL BE AN INTEGRAL PART OF ANY FIXED SEATING PLAN AND SHALL BE DISPERSED THROUGHOUT THE SEATING AREA. THEY SHALL ADJOIN AN ACCESSIBLE ROUTE THAT ALSO SERVES AS A MEANS OF EGRESS IN CASE OF EMERGENCY AND SHALL BE LOCATED TO PROVIDE LINES OF SIGHT COMPARABLE TO THOSE FOR ALL VIEWING AREAS.

EXCEPTION: ACCESSIBLE VIEWING POSITIONS MAY BE CLUSTERED FOR BLEACHERS, BALCONIES, AND OTHER AREAS HAVING SIGHT LINES THAT REQUIRE SLOPES OF GREATER THAN 5 PERCENT. EQUIVALENT ACCESSIBLE VIEWING POSITIONS MAY BE LOCATED ON LEVELS HAVING ACCESSIBLE EGRESS.

4.33.4 SURFACES. THE GROUND OR FLOOR AT WHEELCHAIR LOCATIONS SHALL BE LEVEL AND COMPLY WITH 4.5.

4.33.5 ACCESS TO PERFORMING AREAS. AN ACCESSIBLE ROUTE SHALL CONNECT WHEELCHAIR SEATING LOCATIONS WITH PERFORMING AREAS, INCLUDING STAGES, ARENA FLOORS, DRESSING ROOMS, LOCKER ROOMS, AND OTHER SPACES USED BY PERFORMERS.

4.33.6* PLACEMENT OF LISTENING SYSTEMS. IF THE LISTENING SYSTEM PROVIDED SERVES INDIVIDUAL FIXED SEATS, THEN SUCH SEATS SHALL BE LOCATED WITHIN A 50' (15M) VIEWING DISTANCE STAGE OR PLAYING AREA AND SHALL HAVE A COMPLETE VIEW OF THE STAGE OR PLAYING AREA.

4.33.7* TYPES OF LISTENING SYSTEMS. AUDIO LOOPS AND RADIO FREQUENCY SYSTEMS ARE TWO ACCEPTABLE TYPES OF LISTENING SYSTEMS.

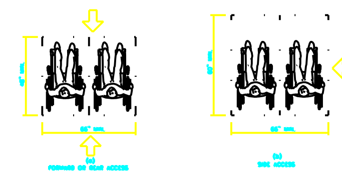
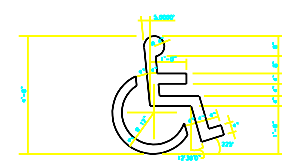


FIG. 46

SPACE REQUIREMENTS FOR WHEELCHAIR SEATING SPACES IN SERIES

N.T.S.



HANDICAP SIGN DETAIL

N.T.S.

HANDICAP DETAILS

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

DR. LISA LANDESMAN D.D.S.

DAMMON ENGINEERING, INC.
ARCHITECTS — ENGINEERS

SCALE:AS NOT

FILE:

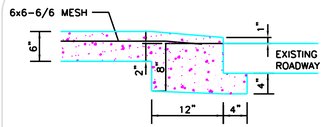
JOB NO.

DATE:10-20-0

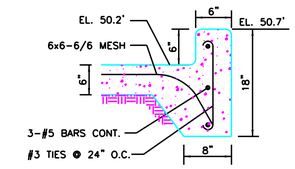
SHEET

H-2

OF



DRIVEWAY DETAIL
N.T.S.



CURB DETAIL
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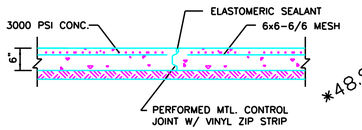

CONTROL JOINT DETAIL
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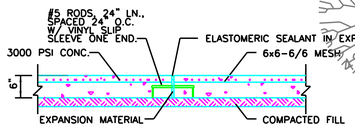

EXPANSION JOINT DETAIL
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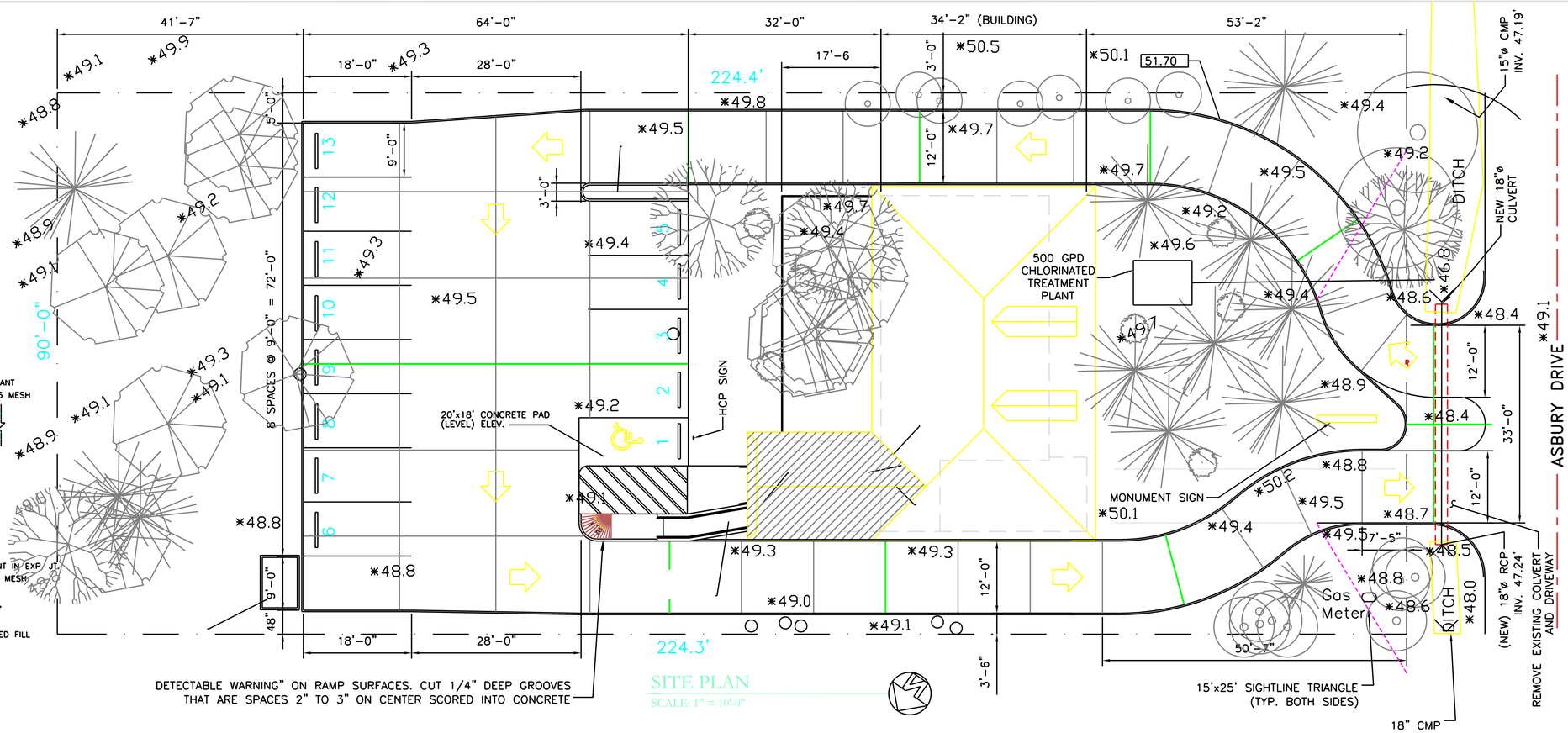

SITE PLAN
SCALE: 1" = 10'-0"

SIDEWALKS

1. ALL SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE WITH A COMPRESSIVE STRENGTH OF 2,500 P.S.I. IN TWENTY-EIGHT DAYS AND A MIN. THICKNESS OF FIVE INCHES.
2. ALL SIDEWALKS TO HAVE A WIDTH OF FIVE FEET AND AND SHALL BE CONSTRUCTED AS PER THE LOCATION SHOWN ON THIS PLAN.
3. ALL SIDEWALKS SHALL BE SCORED TO A DEPTH OF 3/4" AT FOUR FOOT INTERVALS WITH EXPANSION JOINTS PLACED AT TWENTY FOOT INTERVALS.
4. EXPANSION JOINTS SHALL BE CONSTRUCTED OF 1/2" THICK PRE-MOLDED EXPANSION MATERIAL WITH ALL CORNERS TO BE FORMED BY EXPANSION JOINTS.
5. ANY SIDEWALK OR ACCESSIBLE ROUTE THAT IS NOT AT A LEVEL ELEVATION AT IT'S INTERSECTION WITH A DRIVEWAY OR STREET WILL BE REQUIRED TO INSTALL A CURB RAMP AT A MAX. SLOPE OF 1:12 WITH A MAX. RISE OF 30" AND A MIN. LEVEL STRAIGHT CURB SEGMENT OF 48".
6. THE TEXTURE OF THE DRIVEWAY AND INTERSECTION HANDICAP RAMPS SHALL BE CONSTRUCTED OF A NON-SLIP SURFACE. ACCOMPLISHED BY "BROOMING" THE RAMP SURFACE AND GROOVING ONE INCH SPACING AT RIGHT ANGLE DIRECTIONS. GROOVES TO BE APPROXIMATELY 1/4" x 1/8" INCH WIDE.
7. SIDEWALK SHALL BE SLOPED 1" TOWARDS THE STREET.
8. CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING PRIOR TO ANY WORK DONE WITHIN THE PARISH OR CITY RIGHT OF WAY OR SERVITUDE.

DRIVEWAYS

1. ALL DRIVEWAYS BETWEEN STREET AND PROPERTY LINE SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE WITH A COMPRESSIVE STRENGTH OF 4,000 P.S.I. IN TWENTY-EIGHT DAYS AND A MIN. THICKNESS OF SIX INCHES.
2. ALL DRIVEWAYS BETWEEN STREET AND PROPERTY LINE CONNECTING WITH AN EXISTING ROADWAY TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL AS SHOWN ON THIS PLAN.
3. EXACT LOCATIONS OF ROADWAY AND DRIVEWAY CURBING WILL BE DETERMINED IN THE FIELD BY A REPERSENTATIVE OF THE DEPARTMENT OF ENGINEERING.
4. CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING PRIOR TO THE FORMING OF THE DRIVEWAYS CONNECTING TO THE ROADWAY.

PARKING LOT

5. PARKING STALLS MUST BE STRIPED WITH A FOUR INCH CONTRASTING STRIPE (YELLOW ON CONCRETE AND YELLOW OR WHITE ON ASPHALT PARKING LOT).
6. HANDICAP PARKING SPACE TO BE DESIGNATED BY BLUE STRIPING & EITHER A BLUE SYMBOL ON A WHITE BACKGROUND OR A WHITE SYMBOL ON A-BLUE BACKGROUND. HANDICAP PARKING STALL REQUIRES THE INSTALLATION OF THE PROPER SIGNAGE.
7. ALL WHEEL STOPS AND CONCRETE CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS PLAN.
8. ALL PARKING SPACES TO BE LAID OUT AS SHOWN ON THIS PLAN UNLESS OTHERWISE INDICATED.

DRAINAGE

1. CONCRETE STRENGTH TO BE 4,000 P.S.I. (MIN.) @ 28 DAYS.
2. WHEN BOX IS 7'-0" OR LESS IN HEIGHT USE ONE LAYER OF BRICK. WHEN BOX IS 7'-0" BUT LESS THAN 12'-0" USE TWO LAYERS OF BRICK.
3. ALL MASONRY TO BE LAID WITH RUNNING BOND AND HEADER COURSE (EVERY FOURTH LAYER).
4. ALL WALLS TO BE PLASTERED 1/2" THICK INSIDE AND OUTSIDE.
5. 12" THICK LIMESTONE BEDDING FOUNDATION SHALL BE REQUIRED UNDER ALL MANHOLES AND BASINS.
6. WHEN THE DEPTH OF BOX OR MANHOLE IS FOUR FOOT OR GREATER THE INSTALLATION OF STEPS WILL BE REQUIRED IN ACCORDANCE WITH PUBLIC WORKS STANDARDS.
7. THE MIN. DRAIN SIZE ACCEPTABLE FOR ANY INSTALLATION ON PUBLIC RIGHT-OF-WAY SHALL BE 24" INCHES IN DIAMETER.
8. CONTRACTOR WILL CONTACT THE DEPARTMANT OF ENGINEERING PRIOR TO ANY WORK DONE WITHIN THE PARISH OR CITY RIGHT OF WAY OR SERVITUDE.

TRAFFIC CONTROLS

ANY WORK IN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR NOTIFICATION TO THE PARISH OR CITY TRAFFIC ENGINEERING DIVISION AND COMFORMITY TO THE REQUIREMENTS OF THE UNIFORM MANUAL ON TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/ OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

LEGEND:

- ——— – PROPERTY LINE
- — — — – SETBACK LINE
- - - - - - – SIGHTLINE TRIANGLE
- ——— – NEW BUILDING
- —W— – NEW WATER LINE
- —S— – NEW SEWER LINE
- —E— – NEW POWER LINE

SITE PLAN

DENTAL OFFICE
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SCALE: 1"=10'-0"
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DATE: 10-08-04
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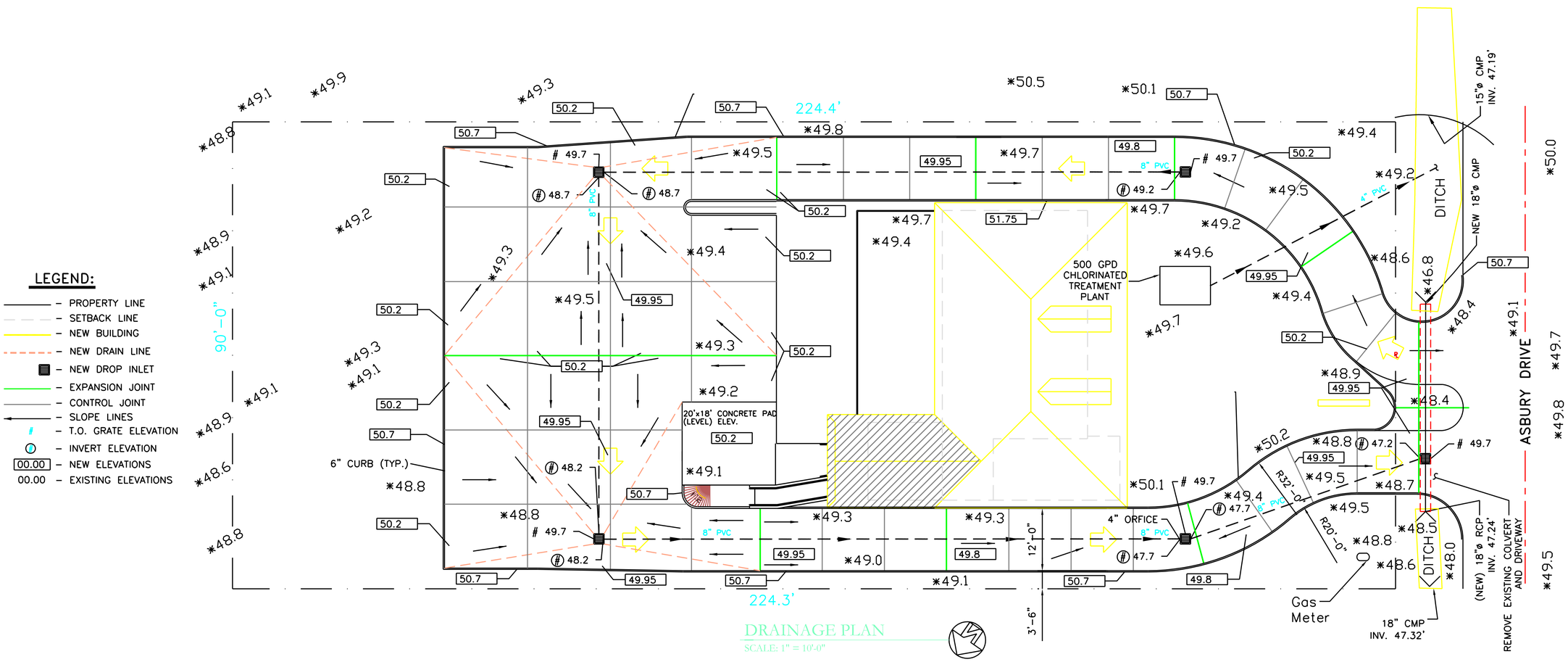
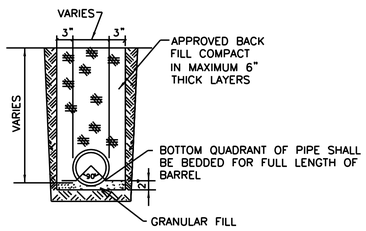


DRAINAGE PLAN

SCALE: 1" = 10'-0"



DRAIN PIPE BEDDING

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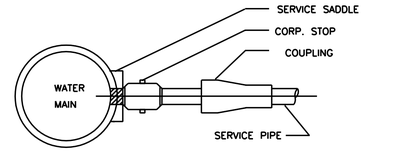
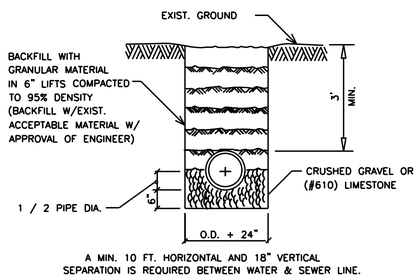


SERVICE CONNECTION FOR TAPS TO MAINS

N.T.S.

NOTES:
1) DRAIN PIPE & FITTINGS SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC. PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
2) ELEVATIONS SHOWN ARE M.S.L.



PIPE BEDDING DETAIL FOR SEWER & WATER LINE

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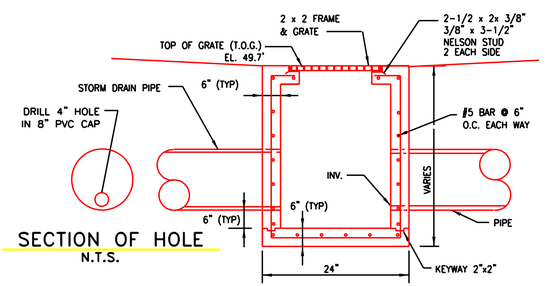

SECTION OF HOLE

N.T.S.

TYPICAL DROP INLET

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DRAINAGE PLAN

DENTAL OFFICE
735 ASBURY DRIVE
MANDEVILLE, LOUISIANA

SCALE:1"=10'-0"

FILE:

JOB NO.

DATE:10-08-04

SHEET

C-2

ASTM D6462

Designation: D6462 – 03

Standard Practice for
Silt Fence Installation

This standard is issued under the fixed designation D 6462; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This practice covers common installation requirements for temporary silt fence applications. This practice is based on AASHTO M288.
1.2 This practice is applicable to the use of silt fence as a vertical permeable interceptor designed to remove suspended soil from overland, nonconcentrated water flow. The function of a temporary silt fence is to trap and allow settlement of soil particles from sediment laden water. The purpose is to greatly limit the transport of eroded soil from a construction site by water runoff.
1.3 The practices presented herein are intended to ensure good workmanship and quality and are not necessarily adequate for all purposes in view of the wide variety of possible sediments and performance objectives.
1.4 The values stated in SI units are to be regarded as the standard. The values in inch-pound units are provided for information only.
1.5 This practice offers an organized collection of information or a series of options and does not recommend a specific course of action. This document cannot replace education or experience and should be used in conjunction with professional judgment. Not all aspects of this guide may be applicable in all circumstances. This ASTM standard is not intended to represent or replace the standard of care by which the adequacy of a given professional service must be judged, nor should this document be applied without consideration of a project's many unique aspects. The word "Standard" in the title of this document means only that the document has been approved through the ASTM consensus process.
1.6 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:
D 653 Terminology Relating to Soil, Rock and Contained Fluids
D 3740 Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
D 4632 Test Method for Grab Breaking Load and Elongation of Geotextiles
D 6461 Specification For Silt Fence Materials
2.2 AASHTO Standard:
M288–96 Standard Specification for Geotextile Specification for Highway Applications

3. Terminology

3.1 For definitions of terms used in this practice, see Terminology D 653.

4. Significance and Use

4.1 Proper installation is critical to effective performance of silt fence. This practice presents procedures for installing silt fence that have been shown to result in the silt fence installations that effectively redirect and impound surface runoff and, thereby, provide effective sediment control.

5. Controlling Material Specifications

5.1 All materials used for temporary silt fence shall conform with the specification requirements of ASTM Specification D 6461 unless otherwise specified in the controlling project specifications.

6. Certification

6.1 The contractor shall provide to the engineer all certifications required by the controlling material specification.

7. Sampling, Testing, and Acceptance

7.1 Silt fence materials shall be subject to sampling and testing in accordance with and to verify conformance with the controlling material specification.

8. Silt Fence Installation

8.1 Materials – Silt fence materials shall conform to the requirements of Section 5. Unless otherwise specified, the silt fence installation shall conform to the following:
8.1.1 The geotextile used for temporary silt fence may not be supported between posts with wire or polymeric mesh.
8.1.2 The minimum height above ground for the silt fence shall be 600 mm (2.0 ft). Minimum embedment depth shall be 150 mm (0.5 ft).
8.1.3 Maximum post spacing shall be based on the fabric support or, if unsupported, on elongation as measured in accordance with Test Method D4632. Supported silt fence shall have a maximum post spacing of 1.2 m (4 ft). Unsupported silt fence with elongation > 50% shall also have a maximum post spacing of 1.2 m (4 ft). Unsupported silt fence with elongation < 50% shall have a maximum post spacing of 2 m (6.5 ft).
8.1.4 Wood, steel, or synthetic support posts having a minimum length of 1 m (3.3 ft) plus the burial depth may be used. They shall be of sufficient strength to resist damage during installation
and to the support applied loads due to material build up behind the silt fence.

NOTE 1 – It has been found that hardwood posts having dimensions of at least 30 X 30 mm (1.2 X 1.2 in.), No. 2 Southern Pipe at least 65 X 65 mm (2.5 X 2.5 in.) or steel posts of UTL of C shape, weighing 600 g per 300 mm (1.3 lb/ft) have performed satisfactorily.

8.1.5 Wire or polymer support fence shall be at least 750 mm (2.5 ft) high and strong enough to support applied loads. Polymer support fences shall meet the same ultraviolet degradation requirements as the geotextile.

NOTE 2 – Wire support fence having at least 6 horizontal wires, and being at least 14-gage wire have performed satisfactorily. Vertical wires should be a maximum of 150 mm (0.5 ft) apart.

8.2 Construction:
8.2.1 Trench Construction – The bottom of the silt fence geotextile shall be buried in a "J" configuration to a minimum depth of 150 mm (6 in.) in a trench so that no flow can pass under the silt fence. Backfil the trench and compact the soil over the geotextile so that the compacted soil completely fills the trench.
8.2.2 Soil Slicing Construction – Insert the geotextile in a slit in the soil 0.2 to 0.3 m (8 to 12 in.) deep so that no flow can pass under the silt fence. Create the slit such that a horizontal chisel point (approx. 76 mm/3 in. wide) at the base of a soil slicing blade (approx. 18 mm/0.75 in. wide) slightly disrupts soil upward as the blade slices through the soil. This upward disruption minimizes horizontal compaction and creates an optimal soil condition for mechanical compaction against the geotextile. Mechanically insert the geotextile directly behind the soil slicing blade in a simultaneous operation, achieving consistent placement and depth.
8.2.3 Splice the geotextile together only at support posts. Two sections of fence may be overlapped or alternatively spliced as long as there are no gaps, voids, or other loss of integrity of the barrier.
8.2.4 Place the posts at spacing as shown on the project plans. Drive posts or place a minimum of 500 mm (1.65 ft) into the ground. Increase depth to 600 mm (2 ft) if fence is placed on a slope of 3H:1V or greater.
NOTE 3 – Where 500 mm (1.65 ft) depth is impossible to attain, the posts should be adequately secured to prevent overturning of the fence due to sediment loading.

8.2.5 Fasten the support fence securely to the upslope side of the fence post. The support fence shall extend from the ground surface to the top of the geotextile.
8.2.6 When self-supporting fence is used, securely fasten the geotextile to the fence posts.
8.2.7 Silt fences should be continuous and transverse to the flow. the silt fence should follow the contours of the site as closely as possible. Place the fence such that the water cannot runoff around the end of the fence.

NOTE 4 – Commonly, silt fence is limited to handle an area equivalent to 90 m2/3 m (1000 ft2/10 ft) of fence. Caution is used where the site slope is greater than 1H: 1V, and water flow rates exceed 3 L/s/3 m (50 gal/min/10 ft) of fence.

8.2.8 Compaction–When assembling silt fence on-site, compaction prior to installing posts is recommended. Compact the backfill soil immediately
next to the silt fence geotextile. Compact the upstream side
first, and then the downstream side. When installing pre-assembled silt fence, care shall be taken to sufficiently compact soil adjacent to the installed geotextile and posts. The soil adjacent to the buried silt fence geotextile shall be compacted to achieve no less than 50 % of its original insitu strength when measured using a suitably calibrated hand-held penetrometer or shear vane, unless a more appropriate compaction measurement technique and associated compaction criteria is directed by the engineer.

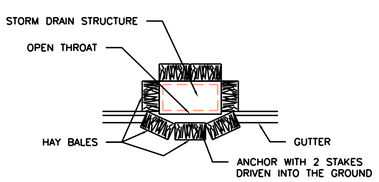
NOTE 5–Installed posts may interfere with compaction by large equipment adjacent to the silt fence. Compaction is commonly accomplished with the front wheel of a tractor, skid steer, roller or other device, as well as with manual tamping or other manual means.1 mean

8.3 Maintenance
8.3.1 The contractor shall inspect all temporary silt fences immediately after each rainfall, and at least daily during prolonged rainfall. Any deficiencies shall be immediately corrected by the contractor.
8.3.1.1 The contractor shall also make a daily review of the location of silt fences in areas where construction activities have altered the natural contour and drainage runoff to ensure that the silt fences are properly located for effectiveness. Where deficiencies exist as determined by the engineer, additional silt fence shall be installed as directed by the engineer.
8.3.1.2 Repair damaged or otherwise ineffective silt fences or replace promptly.
8.3.2 Either remove sediment deposits when the deposit reaches half the height of the fence, or install a second silt fence as directed by the engineer.
8.3.3 The silt fence shall remain in place until the engineer directs it to be removed. Upon removal the contractor shall remove and dispose of any excess sediment accumulations, dress the area to give it a pleasing appearance, and vegetate all bare areas in accordance with contract requirements.
8.3.1 Removed silt fence may be used at other locations provided the geotextile and other material requirements continue to be met to the satisfaction of the engineer.

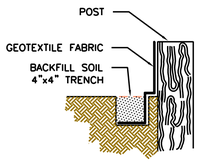
9. Keywords

9.1 geotextile; silt fence; sediment control

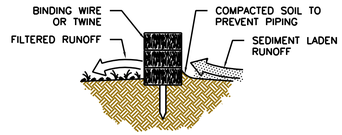
ASTM D6462–03



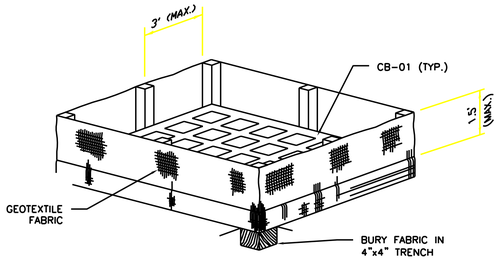
PLAN SHOWING HAY BALES



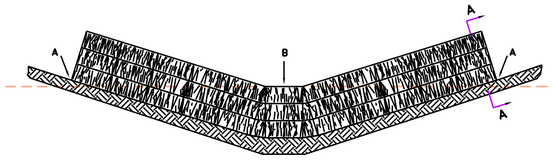
SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



SECTION A–A



ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC
(BACKFILL SOIL NOT SHOWN)



POINTS A SHOULD BE HIGHER THAN POINT B

ELEVATION

TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED IN SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO SECTION 1019 (TYPE G) OF THE LA DOTD STANDARD SPECIFICATIONS.
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE _____ LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH ½" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND MAKE SURE EACH STAKE IS FIRMLY IN THE GROUND.

NOTES:

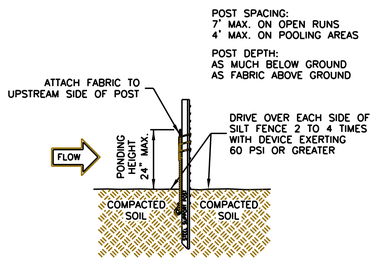
A HAY BALE IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALE SHALL BE IN THE ACCORDANCE WITH LA DOTD STANDARD SPECIFICATIONS, SECTION 204. A FEW BASIC DESIGN GUIDELINES FORE THE USE OF A HAY BALE BARRIER ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION:
2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES:
3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT.

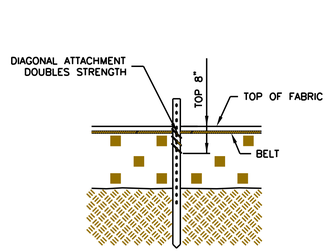
METHOD FOR SILT FENCE INSTALLATION

1. The base of both end posts must be at least 2–4" above the top of the silt fence fabric on the middle posts for ditch checks to drain properly. Use a hand level or string level, if necessary, to mark base points before installation.
2. Install posts 3–4 feet apart in critical water retention areas and 6–7 feet apart on standard applications.
3. Install posts 24 inches deep on the downstream side of the silt fence, and as close as possible to the fabric, enabling posts to support the fabric from upstream water pressure.
4. Install posts with the nipples facing away from the silt fence fabric.
5. Attach the fabric to each post with three ties, all spaced within the top 8" of the fabric. Attach each tie diagonally 45 degrees through the fabric, with each puncture at least 1" vertically apart. Also, each tie should be positioned to hang on a post nipple when tightened to prevent sagging.
6. Wrap approximately 6 inches of fabric around the end posts and secure with 3 ties.
7. No more than 24" of a 36" fabric is allowed above ground level.
8. The installation should be checked and corrected for any deviations before compaction. Use a flat-bladed shovel to tuck fabric deeper into the slit if necessary.
9. Compacting is vitally important for effective results. Compact the soil immediately next to the silt fence fabric with the front wheel of the tractor, skid steer, or roller exerting at least 60 pounds per sq.inch. Compact the upstream side first, and then each side twice for a total of four trips.

SUGGESTED INSTALLATION SPECIFICATIONS FOR STATIC SLICING

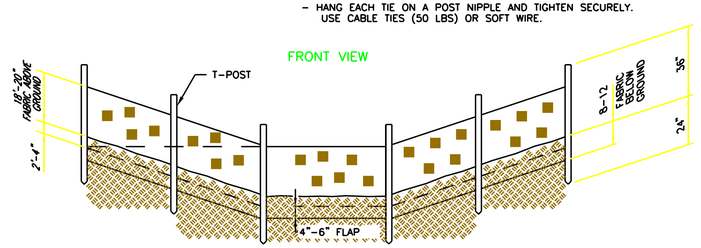


NO MORE THAN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND



ATTACHMENT DETAILS:
- GATHER FABRIC AT POSTS, IF NEEDED.
- UTILIZE THREE TIES PER POST, ALL WITHIN TOP 8" OF FABRIC.
- POSITION EACH TIE DIAGONALLY, PUNCTURING HOLES VERTICALLY AT A MINIMUM OF 1" APART.
- HANG EACH TIE ON A POST NIPPLE AND TIGHTEN SECURELY. USE CABLE TIES (50 LBS) OR SOFT WIRE.

FRONT VIEW



THE BASE OF BOTH END POSTS MUST BE 2–4" ABOVE THE FABRIC ON THE MIDDLE POSTS FOR ALL THE SILT FENCE TO PROPERLY DRAIN. USE STRING LEVEL WHEN NECESSARY.

DAMMON ENGINEERING, INC.
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SILT DETAILS

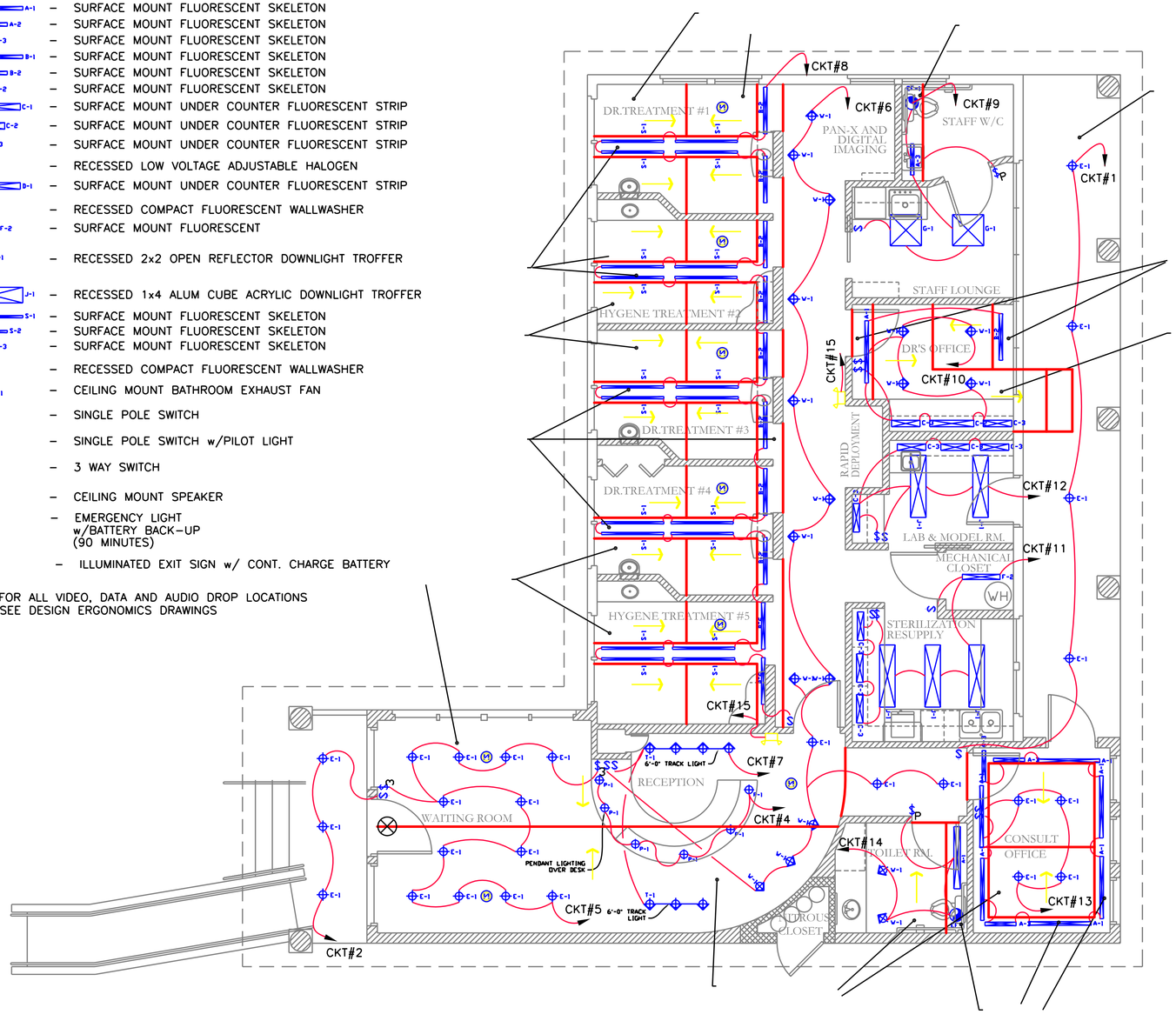
DENTAL OFFICE
735 ASBURY DRIVE
MANDEVILLE, LOUISIANA

SCALE: N.T.S.
FILE:
JOB NO.
10-18-04
SHEET
C – 3

LEGEND

- A-1 – SURFACE MOUNT FLUORESCENT SKELETON
- A-2 – SURFACE MOUNT FLUORESCENT SKELETON
- A-3 – SURFACE MOUNT FLUORESCENT SKELETON
- B-1 – SURFACE MOUNT FLUORESCENT SKELETON
- B-2 – SURFACE MOUNT FLUORESCENT SKELETON
- B-2 – SURFACE MOUNT FLUORESCENT SKELETON
- C-1 – SURFACE MOUNT UNDER COUNTER FLUORESCENT STRIP
- C-2 – SURFACE MOUNT UNDER COUNTER FLUORESCENT STRIP
- C-3 – SURFACE MOUNT UNDER COUNTER FLUORESCENT STRIP
- CC-1 – RECESSED LOW VOLTAGE ADJUSTABLE HALOGEN
- D-1 – SURFACE MOUNT UNDER COUNTER FLUORESCENT STRIP
- E-1 – RECESSED COMPACT FLUORESCENT WALLWASHER
- F-2 – SURFACE MOUNT FLUORESCENT
- G-1 – RECESSED 2x2 OPEN REFLECTOR DOWNLIGHT TROFFER
- J-1 – RECESSED 1x4 ALUM CUBE ACRYLIC DOWNLIGHT TROFFER
- S-1 – SURFACE MOUNT FLUORESCENT SKELETON
- S-2 – SURFACE MOUNT FLUORESCENT SKELETON
- S-3 – SURFACE MOUNT FLUORESCENT SKELETON
- V-1 – RECESSED COMPACT FLUORESCENT WALLWASHER
- EF-1 – CEILING MOUNT BATHROOM EXHAUST FAN
- S – SINGLE POLE SWITCH
- $_P – SINGLE POLE SWITCH w/PILOT LIGHT
- $_3 – 3 WAY SWITCH
- (S) – CEILING MOUNT SPEAKER
- – EMERGENCY LIGHT w/BATTERY BACK-UP (90 MINUTES)
- (⊗) – ILLUMINATED EXIT SIGN w/ CONT. CHARGE BATTERY

* NOTE: FOR ALL VIDEO, DATA AND AUDIO DROP LOCATIONS SEE DESIGN ERGONOMICS DRAWINGS



ELECTRICAL LIGHTING PLAN

1/4" = 1'-0"

NOTES:

1. CONTRACTOR / OWNER TO VERIFY EQUIP. HEIGHTS, SIZES, UTILITY REQUIREMENTS AND TIE-INS WITH MFR. RECOMMENDATIONS-COAXIAL CABLE BY OTHERS
2. CONTRACTOR / OWNER TO VERIFY COVE LIGHTS AND LIGHT BEAMS PRIOR TO CONSTRUCTION. SEE DESIGN ERGONOMIC'S DRAWINGS DATED 6/29/04 FOR DETAILS.
3. CONTRACTOR / OWNER TO VERIFY ALL EQUIPMENT & OUTLET CONNECTIONS PRIOR TO CONSTRUCTION. SEE DESIGN ERGONOMIC'S DRAWINGS DATED 6/29/04 FOR DETAILS.

ALARM SYSTEM NOTES:

1. CONTRACTOR / OWNER TO VERIFY EQUIP. LOCATION AS WELL AS ALARM PACKAGE DESIRED. ALARM SYSTEM SHALL CONSIST OF: 6-ZONE CONTROL PANEL, DIGITAL KEY PAD, MOTION DETECTION SYSTEM w/GLASS BREAKAGE SENSERS, DOOR & WINDOW CONTACT SWITCH SENSERS, INDOOR SIREN, BATTERY BACKUP SUPPLY, & A.C. POWER TRANSFORMER.

PANEL: PL-1
LOCATION: STERILIZATION ROOM
FEEDER SOURCE: CLECO

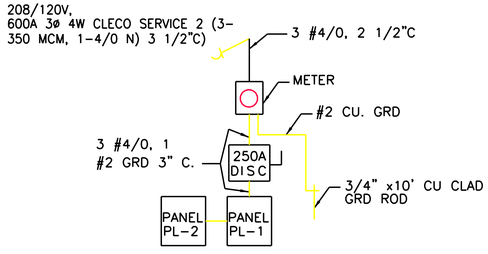
VOLTAGE: 120/208V, 3ø, 4W 250A MAINS, 250A, 3 POLE M.B.
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR
SQUARE D TYPE QO LOAD CENTER

CKT. NO.	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	Aø Bø Cø	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	CKT. NO.
1	FRONT PORCH LIGHTS	20	1	-		-	1	20	REAR PORCH LIGHTS	2
3	ALARM SYSTEM	20	1	-		-	1	20	RECEPTION AREA LIGHTS	4
5	WAITING ROOM LIGHTS	20	1	-		-	1	20	HALLWAY LIGHTS	6
7	TRACK LIGHTING (WAITING RM.)	20	1	-		-	1	20	TREATMENT ROOM LIGHTS	8
9	LOUNGE/ W/C LIGHTS	20	1	-		-	1	20	DR. OFFICE LIGHTS	10
11	MECHANICAL & STERIL. RM. LTS.	20	1	-		-	1	20	LAB LIGHTS	12
13	CONSULT OFFICE LIGHTS	20	1	-		-	1	20	TOILET ROOM LIGHTS	14
15	EMERGENCY LIGHTS	20	1	-		-	1	20	SPARE	16
17	SPARE	20	1	-		-	1	20	SPARE	18
19	SPARE	20	1	-		-	1	20	SPARE	20
21	SPARE	20	1	-		-	1	20	SPARE	22
23	SPARE	20	1	-		-	1	20	SPARE	24
25	SPARE	20	1	-		-	1	20	SPARE	26
27	SPARE	20	1	-		-	1	20	SPARE	28
29	SPARE	20	1	-		-	1	20	SPARE	30
31	SPARE	20	1	-		-	1	20	SPARE	32
33	SPARE	20	1	-		-	1	20	SPARE	34
35	SPARE	20	1	-		-	1	20	SPARE	36
37	SPARE	20	1	-		-	1	20	SPARE	38
39	SPARE	20	1	-		-	1	20	SPARE	40
41	SPARE	20	1	-		-	1	20	SPARE	42

SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (VA)
Aø | Bø | Cø

GROUND BUS
GROUND WIRE (G)



ELECTRICAL RISER DIAGRAM

N.T.S.

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DAMMONENGINEERING.COM

LIGHTING PLAN

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

SCALE:1/4"

FILE:

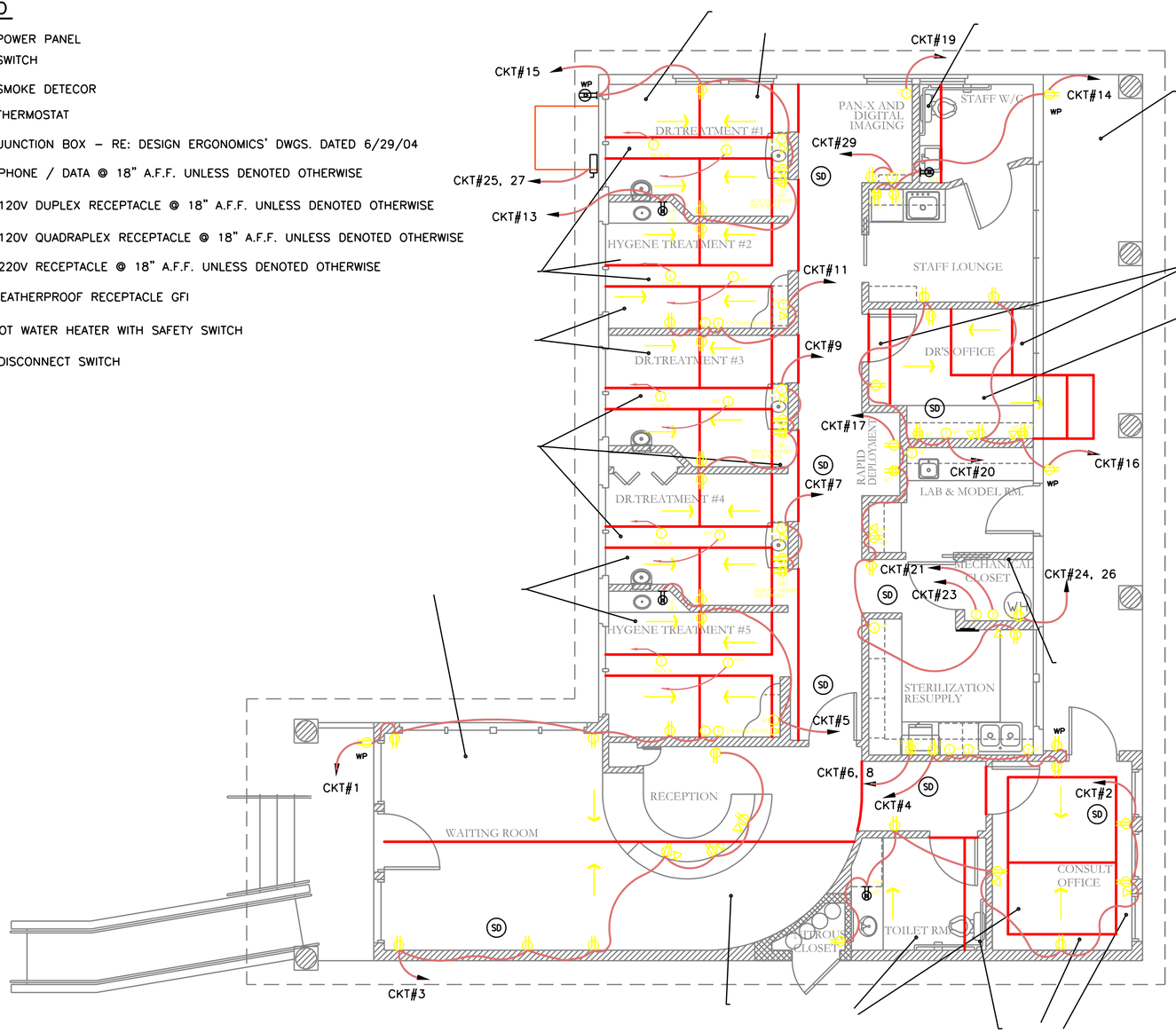
JOB NO.

DATE:10-04-04

SHEET
E-1

LEGEND

- — – POWER PANEL
- $ – SWITCH
- (SD) – SMOKE DETECOR
- (T) – THERMOSTAT
- – JUNCTION BOX – RE: DESIGN ERGONOMICS' DWGS. DATED 6/29/04
- – PHONE / DATA @ 18" A.F.F. UNLESS DENOTED OTHERWISE
- – 120V DUPLEX RECEPTACLE @ 18" A.F.F. UNLESS DENOTED OTHERWISE
- – 120V QUADRAPLEX RECEPTACLE @ 18" A.F.F. UNLESS DENOTED OTHERWISE
- – 220V RECEPTACLE @ 18" A.F.F. UNLESS DENOTED OTHERWISE
- WP GFI – WEATHERPROOF RECEPTACLE GFI
- (HWH) – HOT WATER HEATER WITH SAFETY SWITCH
- – DISCONNECT SWITCH



PANEL: PL-2
LOCATION: STERILIZATION ROOM
FEEDER SOURCE: CLECO

VOLTAGE: 120/208V, 3ø, 4W 250A MAINS, 250A, 3 POLE M.B.
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR
SQUARE D TYPE QO LOAD CENTER

CKT. NO.	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	Aø Bø Cø	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	CKT. NO.
1	WAITING ROOM OUTLETS	20	1	–		–	1	20	CONSULT ROOM OUTLETS	2
3	RECEPT./WAITING RM. OUTLETS	20	1	–		–	1	20	STERILIZATION ROOM OUTLETS	4
5	TREATMENT ROOM #5 OUTLETS	20	1	–		–	2	40	AUTOCLAVE UNIT	6
7	TREATMENT ROOM #4 OUTLETS	20	1	–						8
9	TREATMENT ROOM #3 OUTLETS	20	1	–		–	1	20	FLOOR OUTLETS	10
11	TREATMENT RM. # 3, 2 OUTLETS	20	1	–		–	1	20	LIGHT COVE J-BOXES	12
13	TREATMENT ROOM #2 OUTLETS	20	1	–		–	1	20	STAFF LOUNGE/ W/C OUTLETS	14
15	TREATMENT ROOM #1 OUTLETS	20	1	–		–	1	20	STAFF LOUNGE OUTLETS	16
17	RAPID DEVELOPMENT / LAB STERILIZATION ROOM OUTLETS	20	1	–		–	1	20	DR. OFFICE OUTLETS	18
19	PAN X-RAY UNIT	20	1	–		–	1	20	DR. OFFICE OUTLETS	20
21	AIR COMPRESSOR J-BOX	20	1	–		–	1	20	SMOKE DETECTORS	22
23	VACUUM J-BOX	20	1	–		–	2	40	WATER HEATER	24
25	A/C UNIT #1	40	2	–						26
27						–	1	20	SPARE	28
29	TREATMENT PLANT	20	1	–		–	1	20	SPARE	30
31	SPARE	20	1	–		–	1	20	SPARE	32
33	SPARE	20	1	–		–	1	20	SPARE	34
35	SPARE	20	1	–		–	1	20	SPARE	36
37	SPARE	20	1	–		–	1	20	SPARE	38
39	SPARE	20	1	–		–	1	20	SPARE	40
41	SPARE	20	1	–		–	1	20	SPARE	42

SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (VA)
Aø Bø Cø

GROUND BUS
GROUND WIRE (G)

** NOTE: SEE DESIGN ERGONOMICS DRAWINGS FOR FINAL LOCATIONS OF J-BOXES.

ELECTRICAL NOTES

1. 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.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD, UNLESS NOTED OTHERWISE.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. 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.
10. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. 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 & 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.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WEATHERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71, & 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
17. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
18. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION & ALARM COMPANY TO DESIGN & INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.
19. 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 ABUTTING PROPERTY LINE.
20. ALL ELECTRICAL, MECHANICAL & 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.)

NOTES:

1. CONTRACTOR / OWNER TO VERIFY EQUIP. HEIGHTS, SIZES, UTILITY REQUIREMENTS AND TIE-INS WITH MFR. RECOMMENDATIONS-COAXIAL CABLE BY OTHERS
2. CONTRACTOR / OWNER TO VERIFY COVE LIGHTS AND LIGHT BEAMS PRIOR TO CONSTRUCTION. SEE DESIGN ERGONOMIC'S DRAWINGS DATED 6/29/04 FOR DETAILS.
3. CONTRACTOR / OWNER TO VERIFY ALL EQUIPMENT & OUTLET CONNECTIONS PRIOR TO CONSTRUCTION. SEE DESIGN ERGONOMIC'S DRAWINGS DATED 6/29/04 FOR DETAILS.

ELECTRICAL POWER PLAN
1/4" = 1'-0"

ALARM SYSTEM NOTES:

1. CONTRACTOR / OWNER TO VERIFY EQUIP. LOCATION AS WELL AS ALARM PACKAGE DESIRED. ALARM SYSTEM SHALL CONSIST OF: 6-ZONE CONTROL PANEL, DIGITAL KEY PAD, MOTION DETECTION SYSTEM w/GLASS BREAKAGE SENSERS, DOOR & WINDOW CONTACT SWITCH SENSERS, INDOOR SIREN, BATTERY BACKUP SUPPLY, & A.C. POWER TRANSFORMER.

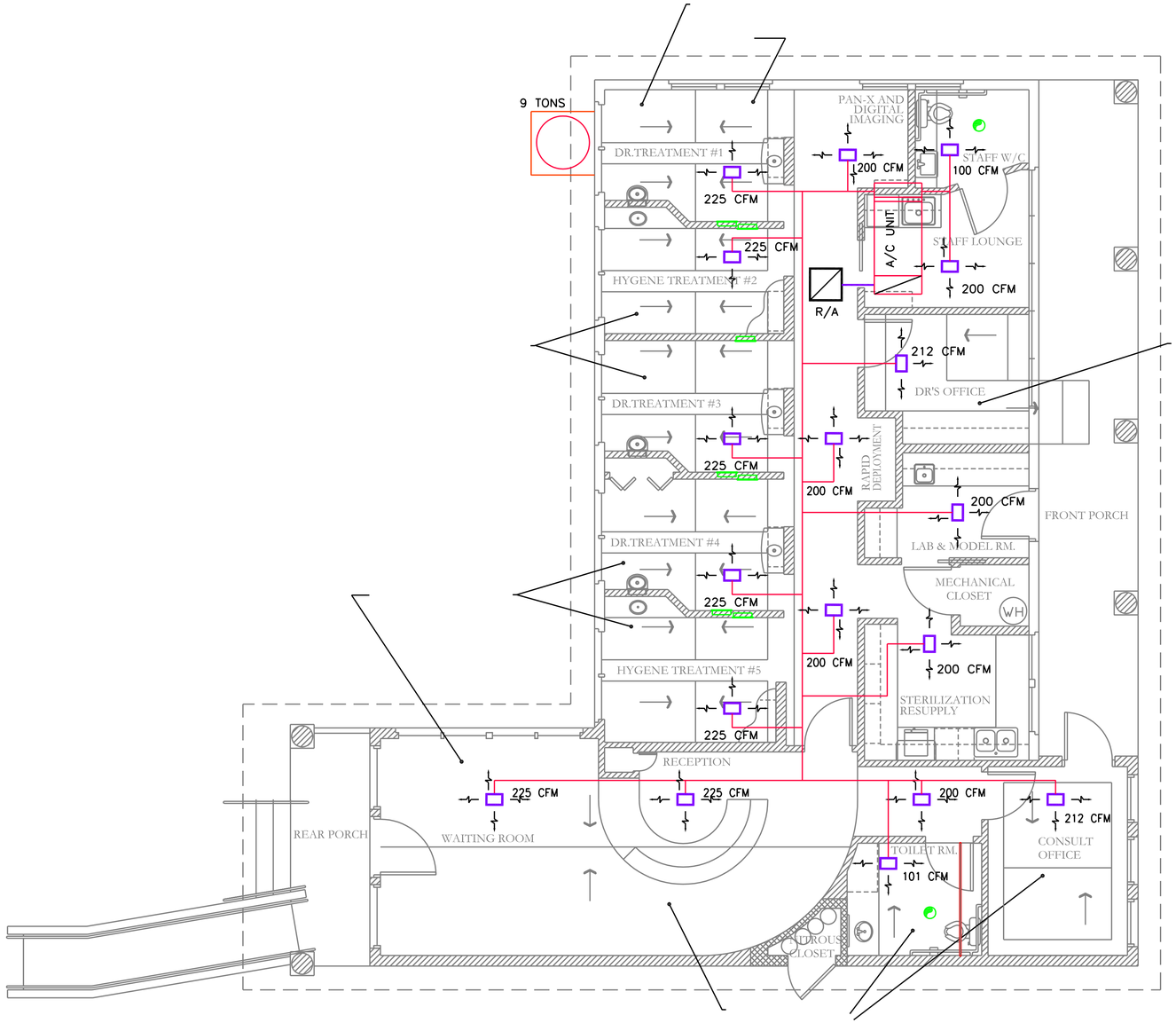
POWER PLAN

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

DR. LISA LANDESMAN D.D.S.

DAMMON ENGINEERING, INC.
1095 FLORIDA AVENUE 985-649-5832 SLIDELL, LA. 70458
DAMMONENGINEERING.COM

SCALE:1/4"
FILE:
JOB NO.
DATE:10-04-04
SHEET
E-2



MECHANICAL PLAN

1/4" = 1'-0"

MECHANICAL NOTES:

1. CONCEALED DUCTWORK TO BE UL-181, CLASS I, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1,000 CFM AND SECONDARY DUCTS TO 600 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACNA STANDARDS. LINE WITH NEOPRENE COATED 1.0", 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS I, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2,000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS, TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE U.L. LISTED 125 F FIRESHOT IN RETURN AIR OF EACH SYSTEM UNDER 2,000 CFM TO SHUT DOWN FAN IN THE EVENT OF FIRE.
7. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY SWITCH ON WALL AT LIGHT SWITCH. PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT ON ROOF FOR TOILET EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTRIL DAMPERS.
14. LOCATION OF OUTDOOR UNITS SHALL BE AS SHOWN ON PLAN. MECHANICAL CONTRACTOR SHALL PROVIDE A 4" CONCRETE REINFORCED PAD FOR EACH CONDENSING UNIT.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH ROOF TOP DUCT SUPPLIED WITH A CONTROL DAMPER.
17. INSTALL FIRE DAMPER WHERE S.A. AND R.A. DUCTS PENETRATE 1 HR. CEILING.
18. ALL ELECTRICAL, MECHANICAL AND PLUMBING 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.)

LEGEND

- SUPPLY AIR
- R/A – RETURN AIR
- EXHAUST FAN
- SUPPLY AIR LINE

EXHAUST FAN SCHEDULE

LOC	CFM	VOLTAGE	TYPE	MANF.
TOILETS	100	120	VENT/LIGHT	BROAN

A/C UNIT SCHEDULE

NO.	TOTAL BTU	CFM	O.A.	HEAT (KW)	ELECTRICAL			COMMENTS
					VOLTAGE	MCA	CKT BRKR	
1	108,000 9 TON	3,600	360	10	208V,3ø	–	–	CARRIER

MECHANICAL PLAN

DENTAL OFFICE
735 ASBURY
MANDEVILLE, LOUISIANA

DR. LISA LANDESMAN D.D.S.

DAMMON ENGINEERING, INC.
1095 FLORIDA AVENUE 985-649-5832 SLIDELL, LA. 70458
DAMMONENGINEERING.COM

SCALE:1/4"

FILE:

JOB NO.

DATE:10-04-04

SHEET

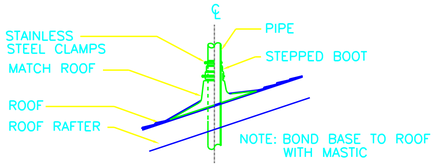
M-1

PLUMBING FIXTURE SCHEDULE

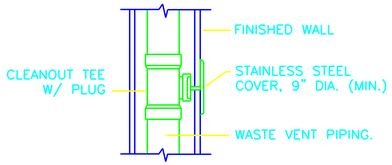
MARK	DESCRIPTION	TYPE	ROUGH-IN-SIZES				NOTES
			WASTE	VENT	CW	H.W.	
WC	H.C. WATER CLOSET	VALVE	4"	4"	1"	–	3
LAV	H.C. LAVATORY	WALL HUNG	2"	2"	1/2"	1/2"	1, 2, 3
FD	FLOOR DRAIN	–	2"	2"	–	–	4
SINK	SINK	–	2"	2"	1/2"	1/2"	–

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.



VENT THRU ROOF DETAIL
N.T.S.



WALL CLEANOUT DETAIL
N.T.S.

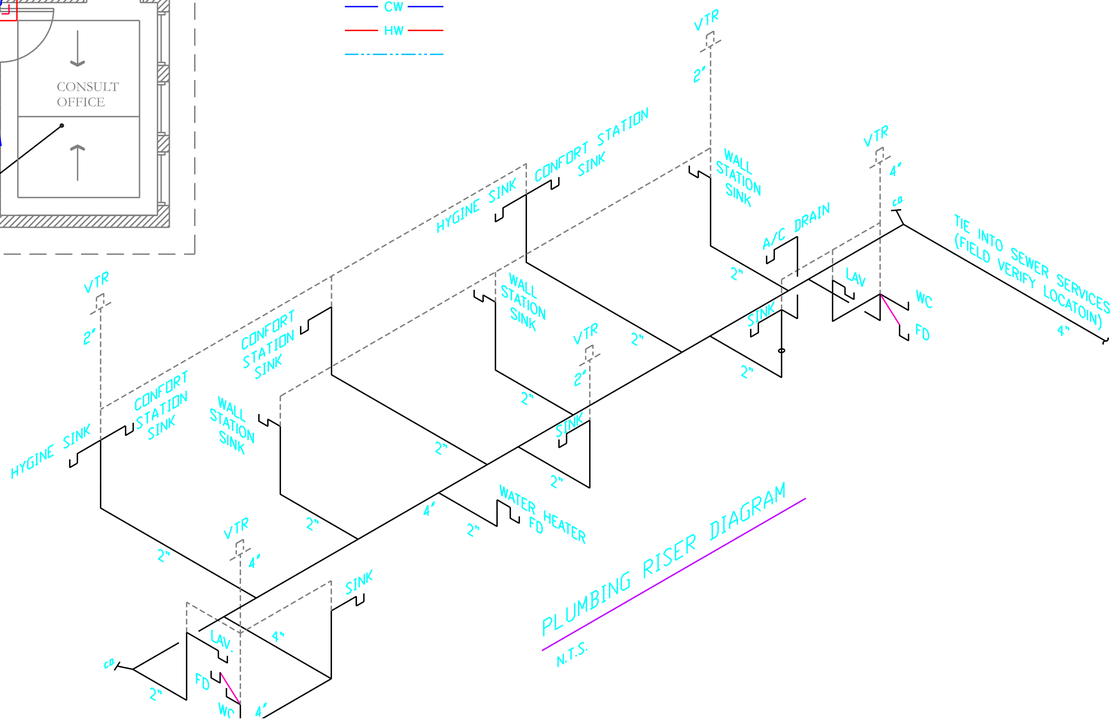
PLUMBING PLAN
1/4" = 1'-0"

PLUMBING NOTES:

1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME. CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
2. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST 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 ¼" PER FOOT AND LINES 4-INCH AND LARGER SHALL SLOPE ⅛" 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 TO BE FIELD VERIFIED.
10. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
11. DOMESTIC WATER PIPING 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 ½" 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 GASSES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

LEGEND

CW
HW



PLUMBING RISER DIAGRAM
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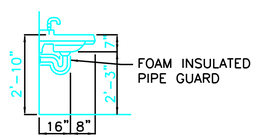

TYPICAL HDCP VANITY
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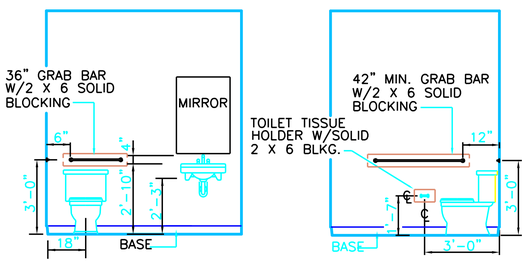

TYPICAL HDCP BATHROOM
N.T.S.

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