AS-BUILTS

AN AUTOMOTIVE DEALERSHIP FOR

Roger Beasley VOLVO

OF GEORGETOWN

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

OWNER/ PARTNER:
DAVID STEIN

BUILDING CODE DESIGN CRITERIA

BUILDING CODE:	1994 STANDARD, 1994 STANDARD PLUMBING
AMENDMENTS:	
ZONING CLASSIFICATION:	C2A "RESTRICTED COMMERCIAL FIRST HEIGHT
PROJECT LOT SIZE:	15.45 ACRES
FIRE ZONE	
BUILDING PRINCIPLE USE:	AUTOMOBILE SHOWROOM AND AND AUTOMOBILE REPAIR GARAGE/PARTS
BUILDING OCCUPANCY	MIXED
OCCUPANCY TYPE	"B" BUSINESS
	"S-2" LOW HAZARD STORAGE (PARTS STORAGE)
	"S" SPECIAL STORAGE (AUTO REPAIR AREA)
TYPE OF CONSTRUCTION	TYPE IV – UNPROTECTED

		UNSPRINKLERED	SPRINKLERED
MAX. BLDG. HEIGHT (TABLE 503)	'B' BUSINESS	55'-2 STORIES	55'-5 STORIES
	'S' STORAGE	55'-2 STORIES	55'-4. STORIES
	'S' S-2 (LOW HAZARD)	55'-2 STORIES	55'-4. STORIES
MAX. BLDG. AREA (TABLE 503)	'B' BUSINESS	17,000 SQ. FT.	34,000 SQ. FT.
	'S' STORAGE	16,000 SQ. FT.	32,000 SQ. FT.
GENERAL AREA MODIFICATION (I=A/(S1500)/P=0.25))	'B' BUSINESS	34,000 SQ. FT.	51,000 SQ. FT.
	'S' STORAGE	32,000 SQ. FT.	48,000 SQ. FT.
PROPOSED BLDG. HEIGHT:	'B' BUSINESS	2–STORY 34'–6" AT PARAPET	
	'S' STORAGE (REPAIR GARAGE)	1–STORY 24'–8" AT PARAPET	

OCCUPANCY LOAD CALCULATION:

TYPE	AREA	OCC. LOAD
GROUND FLOOR BUSINESS:	8,209 SQ.FT.	82(100 GROSS)
GROUND FLOOR S–2 LOW HAZARD STORAGE: (PARTS)	2,465 SQ.FT.	9 (300 GROSS)
GROUND FLOOR SPECIAL STORAGE (AUTO REPAIR AREA):	13,043 SQ.FT.	44 (100 GROSS)
RECEPTION MEZZANINE	456 SQ.FT.	5 (100 GROSS)
TOTAL GROUND FLOOR USABLE AREA	24,173 SQ.FT.	141 OCCUPANTS
SECOND FLR. BUSINESS:	3,035 SQ.FT.	31 (100 GROSS)
TOTAL BUILDING USABLE SPACE	27,208 SQ.FT.	172 OCCUPANTS

MEAN OF EGRESS:
(EGRESS WIDTH PER PERSON SERVED)

	REQ'D.	MIN. W'DTH.	PROVIDED
GROUND FLOOR BUSINESS:	16.8(IN.)	(2) 36"	(8) 36"
SECOND FLOOR BUSINESS:	5.6(IN.)	(1) 36"	(1) 36"
GROUND FLOOR STORAGE: (PARTS STORAGE)	1.8(IN.)	(2) 36"	(3) 36"
GROUND FLOOR STORAGE (AUTO REPAIR AREA):	8.8(IN.)	(2) 36"	(2) 36"

PLUMBING FIXTURE CALCULATION (TABLE 407)

BUSINESS OCCUPANCY:	W.C.	LAVS.	URINALS	WATER FOUNTAIN
REQUIRED PLUMBING FIXTURES FIRST FLOOR	M–2, F– 3	M–2, F–3	M–0, F–0	1
SECOND FLOOR	M–1 , F– 3	M–1, F–2	M–0, F–0	1
PROVIDED PLUMBING FIXTURES FIRST FLOOR	M–2, F– 3	M–2, F–3	M–1, F–0	1
SECOND FLOOR	M–2, F– 3	M–2, F–2	M–1, F–0	1
STORAGE (AUTO REPAIR AND PARTS)	W.C.	LAVS.	URINALS	WATER FOUNTAIN
REQUIRED PLUMBING FIXTURES	M–1 , F– 1	M–1, F–1	M–0–, F–0	1
PROVIDED PLUMBING FIXTURES	M–2 , F– 1	M–2, F–1	M–1, F–0	1

HANDICAPPED REGULATIONS:	REQUIRED–A.D.A.
STAND PIPES:	NONE
SPRINKLER LOCATIONS:	STORAGE "S–2" (PARTS AREA)
EMERGENCY POWER:	NONE
FIRE ALARM:	NONE
DESIGN LOADS:	RE: STRUCTURAL

FIRE RESISTIVE REQUIREMENTS:
Structural Members:

Columns	NO HRS.
Floor System	NO HRS.
Roof System	NO HRS.
Exterior Walls	NO HRS.

Ext. Wall Opening Protection
NO RATING DUE TO PROXIMITY TO FIRE SEPARATION DISTANCE
Partitions
NO
Vertical Shafts
1 HOUR
Ceilings NON–COMBUSTIBLE

OCCUPANCY SEPARATION:

BUSINESS TO S–2 LOW HAZARD STORAGE:	2 HOUR
BUSINESS TO SPECIAL STORAGE (AUTO REPAIR AREA):	2 HOUR
S–2 LOW HAZARD STORAGE TO SPECIAL STORAGE (AUTO REPAIR AREA):	2 HOUR

ARCHITECT:

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 833 GEORGETOWN, TX 78627
(512) 930-5353 FAX (512) 930-2618
WWW.ELSASSERARCHITECTUREINC.COM

REGISTERED ARCHITECT JAMES A. ELSASSER 5233 STATE OF TEXAS
9/19/02

CIVIL ENGINEERING:

Wenzel Engineering Inc.
7005 KENOSHA PASS
Austin, Texas 78749
512 - 301-7480

STRUCTURAL ENGINEERING:

Conrad Engineering
6448 HWY. 290 EAST BLDG. E, SUITE 113
AUSTIN, TEXAS 78723 - (512) 452-2224 - FAX. (512) 452-2410

M.E.P. ENGINEERING:

MYERS & ASSOCIATES
455 HIGHWAY 195, SUITE B
GEORGETOWN, TEXAS 78628
PHONE: (512) 930-2399 FAX: (512)

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ROGER BEASLEY VOLVO - GEORGETOWN

SITE DEVELOPMENT PLAN
WATER POLLUTION ABATEMENT PLAN

GENERAL NOTES:

1. THIS PROJECT IS LOCATED IN THE FRIDAY CREEK WATERSHED. THIS SITE IS NOT OVER THE EDWARD'S AQUIFER RECHARGE ZONE.
2. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF GEORGETOWN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
3. CONTRACTOR SHALL CALL THE ONE CALL CENTER (472-2822) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
4. FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH. ALL CONSTRUCTION OPERATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN,TEXAS.)
5. THIS SITE IS NOT WITHIN THE BOUNDARIES OF THE 100 YEAR FEMA FLOOD PLAIN. PANEL NO. 48491C0230C , SEPT 27, 1991.
6. THE CONTRACTOR MUST INSURE PROPER PERMITS ARE POSTED ON SITE.

SEQUENCE OF CONSTRUCTION:

1. Install temporary erosion controls.
2. Pre construction meeting with City, Engineer, and Contrator.
3. Rough grade site.
4. Construct utilities, building & base parking
5. Complete landscape and final parking.
6. Remove E/S controls.

AMERICANS W/ DISABILITIES ACT & TEXAS ACCESSIBILITY STANDARDS

The applicant, property owner, and occupant of the premises are responsible with all laws, regulations, and restrictions which may be applicable to the property and its use in regard to the above accessibility regulations.

CONSTRUCTION NOTES:

The contractor shall verify the size and location of all existing utilities prior to utility excavation. Any descepencies with any information shown on the plans shall be reported immediatley to the ENGINEER. Pavement and foundation design shall be performed by others.

TEMPORARY EROSION CONTROL:

The contractor shall install erosion/sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing or excavation).

The placement of erosion/sedimentation controls shall be in accordance with the C.O.A. Environmental Criteria Manual, the approved Erosion and Sedimentation Control Plan, The Village's NPS Pollution Control Permit, Village ordinances, and the Village TCSS Manual.

A pre-construction conference shall be held on-site with the contractor, design engineer/permit applicant and Village Building Official after installation of the erosion/sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The contractor shall notify the Village Building Official, 263-2151 at least 48 hours prior to the meeting date.

Any significant variation in materials or locations of controls or fences from those shown on the approved plans must be approved by the Engineer, VOSC & Village Engineer.

The contractor is required to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.

PERMANANT EROSION CONTROL:

Permanent Erosion Control: All disturbed areas shall be restored as noted below:

(a) A minimum of four inches of topsoil shall be placed in all drainage channels (except rock) and between the curb and right-of-way line.

(b) The seeding for permanent erosion control shall be applied over areas disturbed by construction as follows:

i. From September 15 to March 1, seeding shall be with a combination of 2 pounds per 1000 square feet of unhulled Bermuda and 7 pounds per 1000 feet of Winter rye with a purity of 95% with 90% germination.

ii. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 3 pounds per 1000 square feet with a purity of 95% with 85% germination.

(c) Fertilizer shall be slow release granular or pellet type and shall have an analysis of 15-15-15 and shall be applied at the rate of 23 pounds per acre once at the time of planting and again once during the time of establishment.

(d) The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil, but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at ten-day intervals during the first two months. Rainfall occurrences of 1/2 inch or more shall postpone the watering schedule for one week.

(e) Mulch type used shall be cellulose fiber, applied at a rate of 45 to 80 pounds per 1000 square yard.

(f) Restoration shall be acceptable when the grass has grown at least 1 1/2 inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.

(g) When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual.

The contractor shall dispose of surplus excavated material from the site to a suitable location.

EDWARDS AQUIFER NOTE:

The site is located in the Edwards Aquifer contributing zone and is < 5 acres, therefore no TNRCC Permit is required.

Texas Natural Resource Conservation Commission
Water Pollution Abatement Plan
General Construction Notes

1. Written construction notification must be given to the appropriate TNRCC regional office no later than 48 hours prior to commencement of the regulated activity. Information must include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, and the name of the prime contractor and the name and telephone number of the contact person.

2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan and the TNRCC letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.

3. If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TNRCC regional office must be immediately notified of any sensitive features encountered during construction. The regulated activities near the sensitive feature may not proceed until the TNRCC has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.

4. No temporary aboveground hydrocarbon and hazardous substance storage tank system is installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

5. Prior to commencement of construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturers specifications and good engineering practices. Controls specified in the temporary storm water section of the approved Edwards Aquifer Protection Plan are required during construction. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. The controls must remain in place until disturbed areas are revegetated and the areas have become permanently stabilized.

6. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

7. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 20 % A permanent stake must be provided that can indicate when the sediment occupies 50 % of the basin volume.

8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.

10. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

11. The following records shall be maintained and made available to the TNRCC upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.

12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

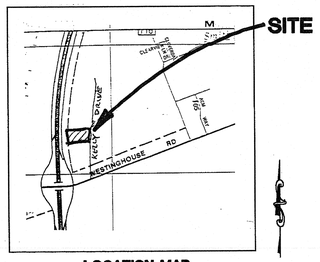
A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;

B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;

C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office
1921 Cedar Bend, Suite 150
Austin, Texas 78758-5336
Phone (512) 339-2929
Fax (512) 339-3795
San Antonio Regional Office
140 Heimer, Suite 360
San Antonio, Texas 78232-5042
Phone (210) 490-3096
Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.



LOCATION MAP

FIRE PROTECTION NOTES:

1. Hydrants must be installed with the center of the four-inch opening at least 18 inches above finished grade. The four-inch opening must face the driveway or street with three to six-foot setbacks from the curblines. No obstruction is allowed within three feet of any hydrant and the four-inch opening must be totally unobstructed from the street.

2. TIMING OF INSTALLATION: When fire protection facilities are installed by the developer, such facilities shall include all surface access roads which shall be installed and made serviceable prior to and during the time of construction. Where alternative methods of protection, as approved by the Fire Chief, are provided, the above may be modified or waived.

3. All pervious/decorative paving shall be engineered and installed for 80,000 lb. live-vehicle loads.

4. Commercial dumpsters and containers with an individual capacity of 1.5 cubic yards or greater shall not be stored or placed within 10 feet of opening, combustible walls, or combustible eave lines.

5. Vertical clearance required for fire apparatus is 13 feet, 6 inches for full width of access drive.

SERVICE NOTE:

WATER & WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF GEORGETOWN.

1. TOTAL SITE AREA: 5.45 AC
2. PROPOSED/EXISTING USE: VACANT
   VEHICLE SALES
3. IMPERVIOUS COVER (FOR DRAINAGE CALCS.)

	EXISTING		PROPOSED		
ROOF/CONC.	0	SF	23,400	SF	(0.5 AC)
ASPHALT	0	SF	140,442	SF	(3.2 AC)
GRAVEL/BASE	0	SF	0	SF	(0.00 AC)
TOTAL	0	SF	163,842	SF	(3.7 AC)

ALLOWABLE IMPERVIOUS COVER (40%)
EXISTING IMPERVIOUS COVER (95%)

4. IMPERVIOUS COVER 70% PROPOSED
5. ZONED: C2A

DEVELOPER INFORMATION

OWNER: BUDGET LEASING PHONE: 512) 452-0266

ADDRESS: 200 E HUTLAND DR., AUSTIN , TX 78752

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATION:

STEVE WENZEL, P.E. PHONE: 301-7480

PERSON OR FIRM RESPONSIBLE FOR EROSION\SEDIMENTATION CONTROL MAINTENANCE:
CONTRACTOR: UNKNOWN AT THIS TIME PHONE:

PERSON OR FIRM RESPONSIBLE FOR TREE\NATURAL AREA PROTECTION MAINTENANCE:
CONTRACTOR: UNKNOWN AT THIS TIME PHONE:

Wenzel Engineering Inc.
7005 Kenosha Pass
Austin, Texas 78749
512 - 301-7480

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SITE ADDRESS:
NOT YET ASSIGNED

LEGAL DESCRIPTION:
LOT 3, BLOCK "A", KELLEY TRUST, PHASES ONE, TWO, & THREE CABINET S, SLIDES 339-341

SUBMITTAL DATE: _____

SUBMITTED BY:
STEVE WENZEL, P.E. — DATE 10.2.02

STATE OF TEXAS — STEVEN KEITH WENZEL — 59082 — REGISTERED PROFESSIONAL ENGINEER

APPROVED BY:
CITY OF GEORGETOWN — DATE

APPROVED BY:
ELECTRIC DEPT. — DATE

APPROVED BY:
CITY OF GEORGETOWN, PLANNER — DATE

APPROVED BY:
FIRE DEPT. — DATE

REVISIONS/CORRECTIONS

NO.	DESCRIPTION	CITY OF GEORGETOWN

ROGER BEASLEY VOLVO
GEORGETOWN
E/S CONTROL PLAN

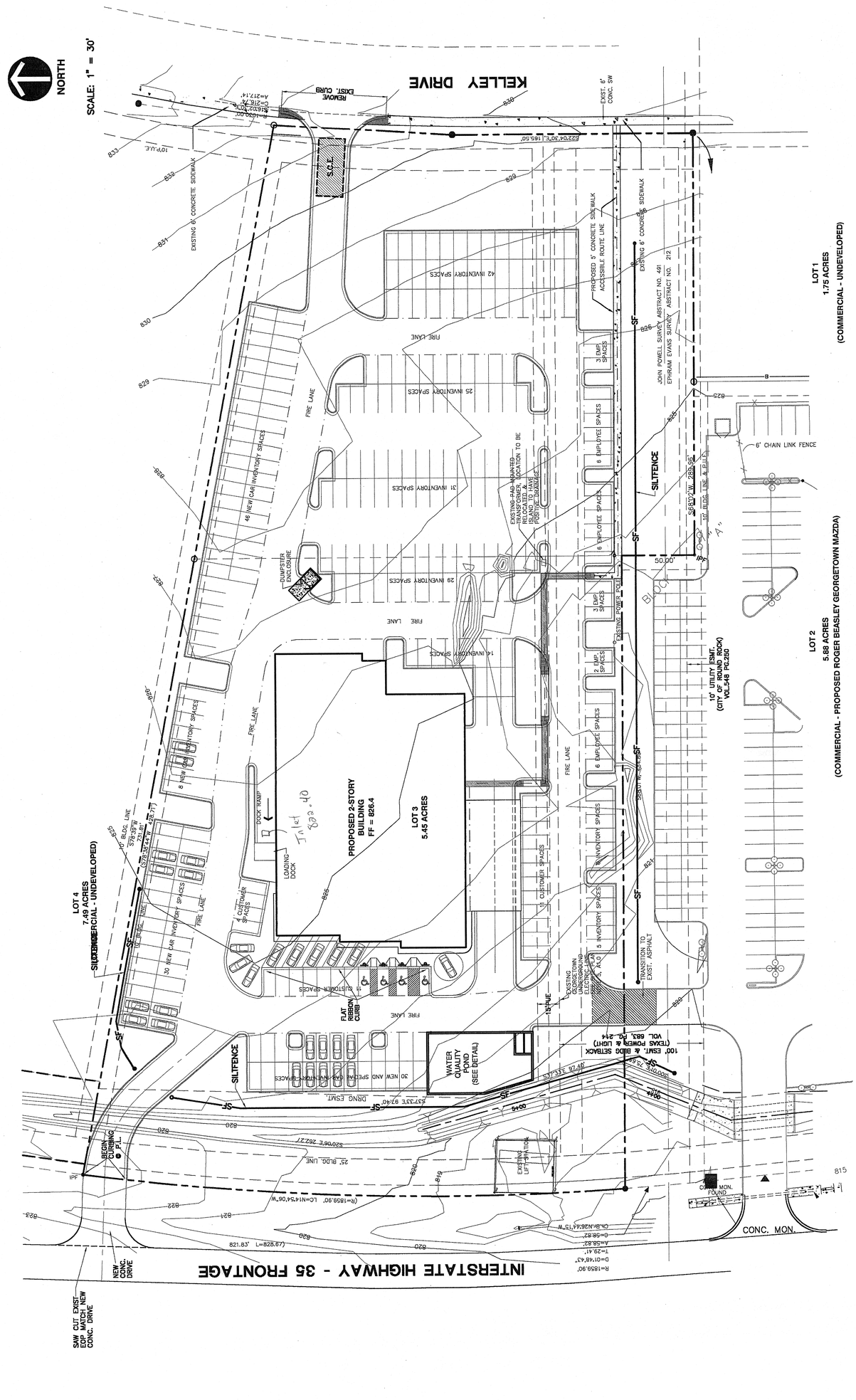
JOB NUMBER:
NAME:
DATE: 02 OCT 2002
PAGE NUMBER: 2 of 9

Wenzel Engineering Inc.
7005 KENOSHA PASS
Austin, Texas 78749
512 - 301-7480

DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

STEVEN KEITH WENZEL
59029
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
10.2.02

REVISIONS:

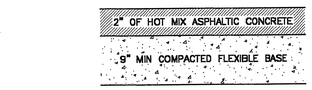


DESIGN BASED ON GEOTECHNICAL ENGINEERING STUDY BY PSI. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL RECOMMENDATIONS RELATING TO PAVEMENT PLACEMENT INCLUDING SITE PREP, EXCAVATION & TESTING.

HOT MIX ASPHALTIC CONCRETE SURFACE COURSE
For both hot laid Type C (Coarse Grade Surface Course) and Type D (Fine Grades Surface Course), the HMAC should be plant mixed and should meet the master specifications requirements in TXDOT Item 340. The mix should be designed for a stability of at least 35 and should be compacted to between 91 and 97 percent of the maximum theoretical density as measured by ASTM D 2041.

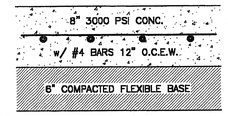
REINFORCED CONCRETE
Concrete should be designed to exhibit a flexural strength (3 point loading) of at least 500 psi at 28 days. The flexural strength (M) may be approximated by the following formula from ACI 330R: M = 2.3 (f), where f is the compressive strength of the concrete. As an option, a 28 day compressive strength requirement of 4,000 psi may be utilized.

CRUSHED LIMESTONE BASE
Base material should be composed of crushed limestone meeting the requirements of TXDOT Item 247, Type A, Grade 1. The base should be compacted to a minimum of 95 percent of the maximum density as determined by the modified moisture/density relation (ASTM D 1557) at -3 to +3 percent of optimum moisture content. (As an option, compaction to at least 100 percent of the TEX 113E maximum dry density may be considered).



M MEDIUM DUTY FLEXIBLE PAVEMENT DETAIL
NTS

L LIGHT DUTY FLEXIBLE PAVEMENT DETAIL
NTS



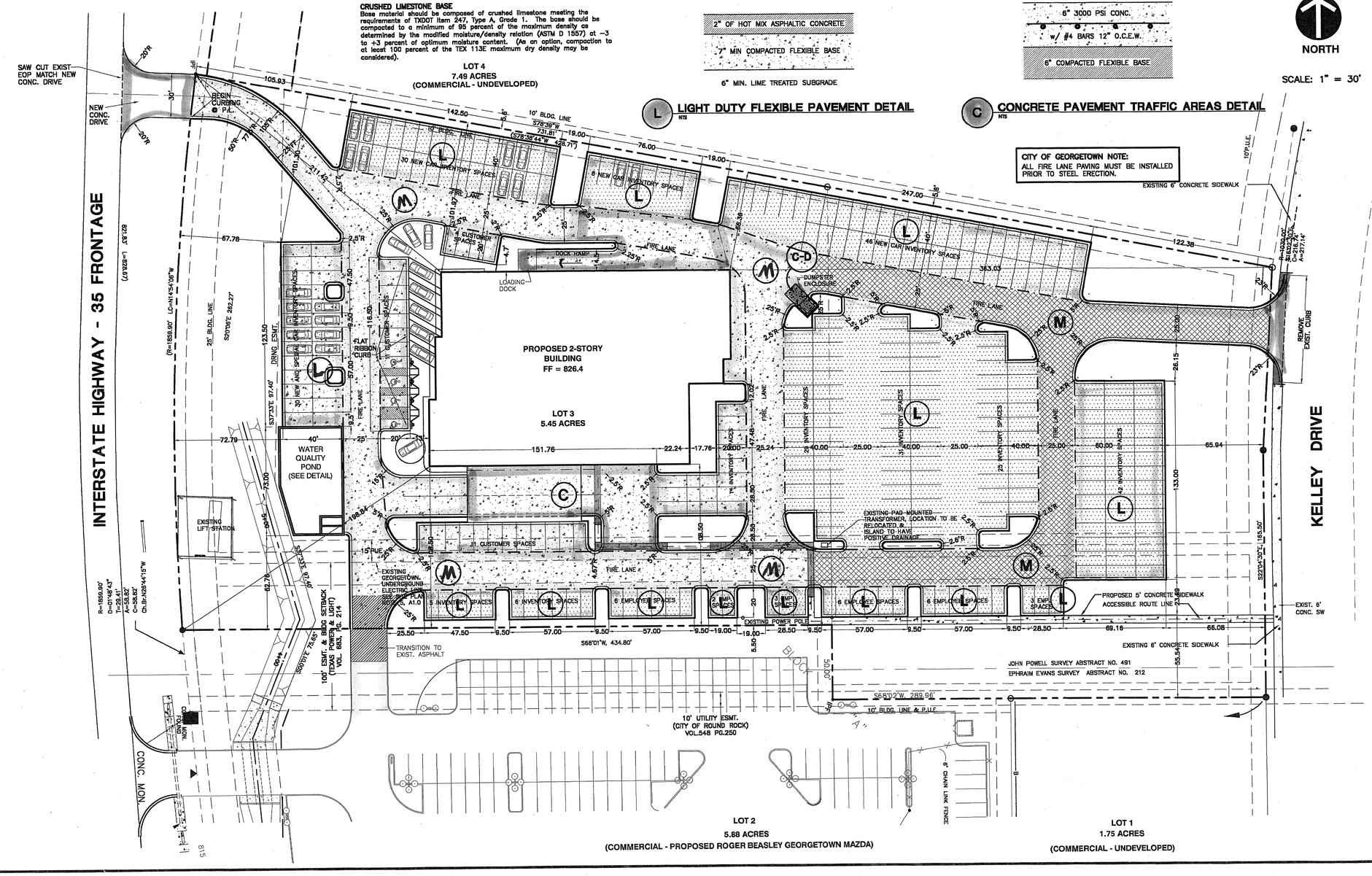
C-D CONCRETE DUMPSTER PAD DETAIL
NTS

C CONCRETE PAVEMENT TRAFFIC AREAS DETAIL
NTS

CITY OF GEORGETOWN NOTE:
ALL FIRE LANE PAVING MUST BE INSTALLED PRIOR TO STEEL ERECTION.

NORTH

SCALE: 1" = 30'



REVISIONS:

DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

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ROGER BEASLEY VOLVO GEORGETOWN

DIMENSION & PAVING PLAN

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ROGER BEASLEY VOLVO
GEORGETOWN
GRADING PLAN

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DRAWN BY: JB
CHECK BY: SKW

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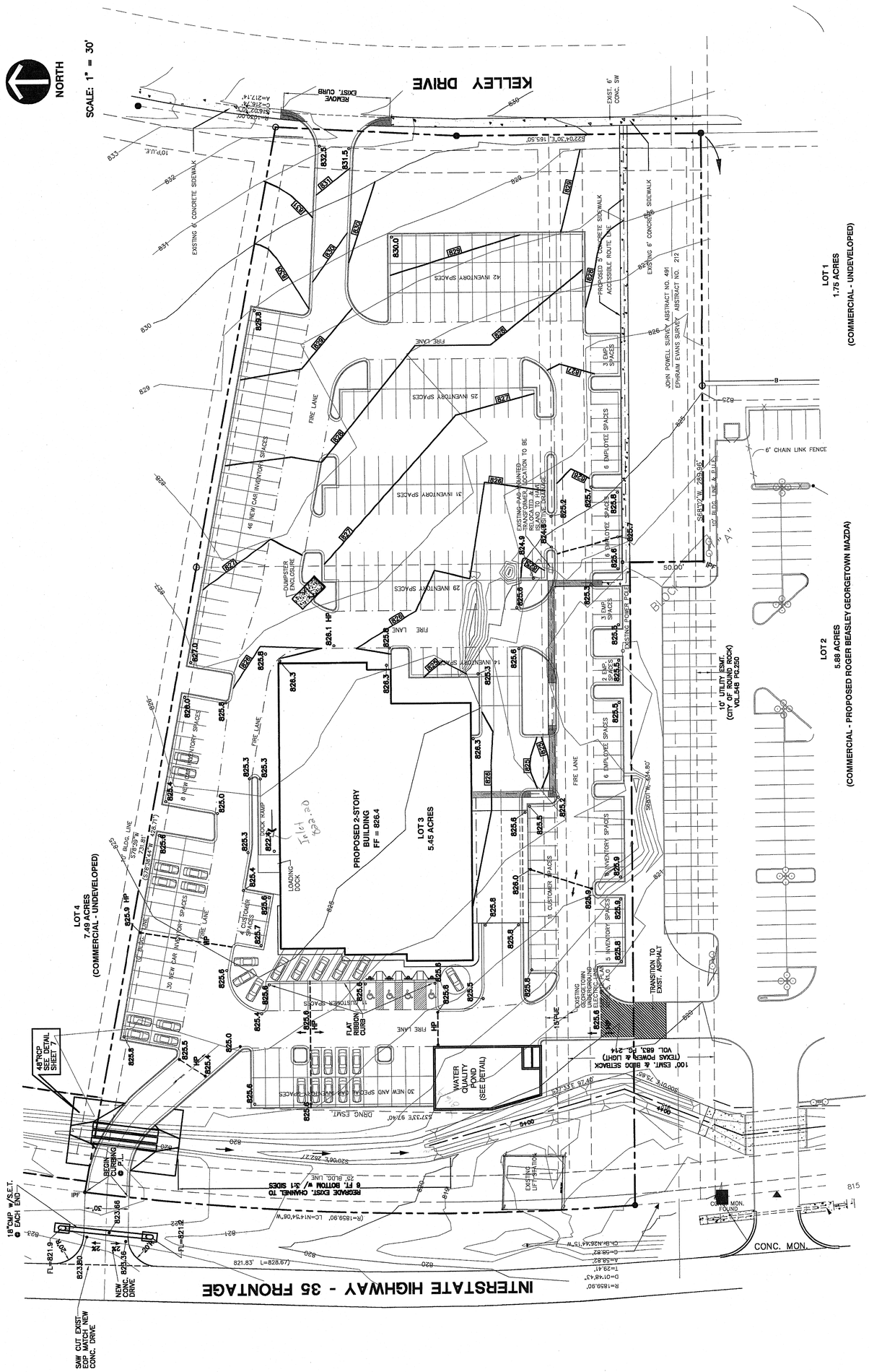

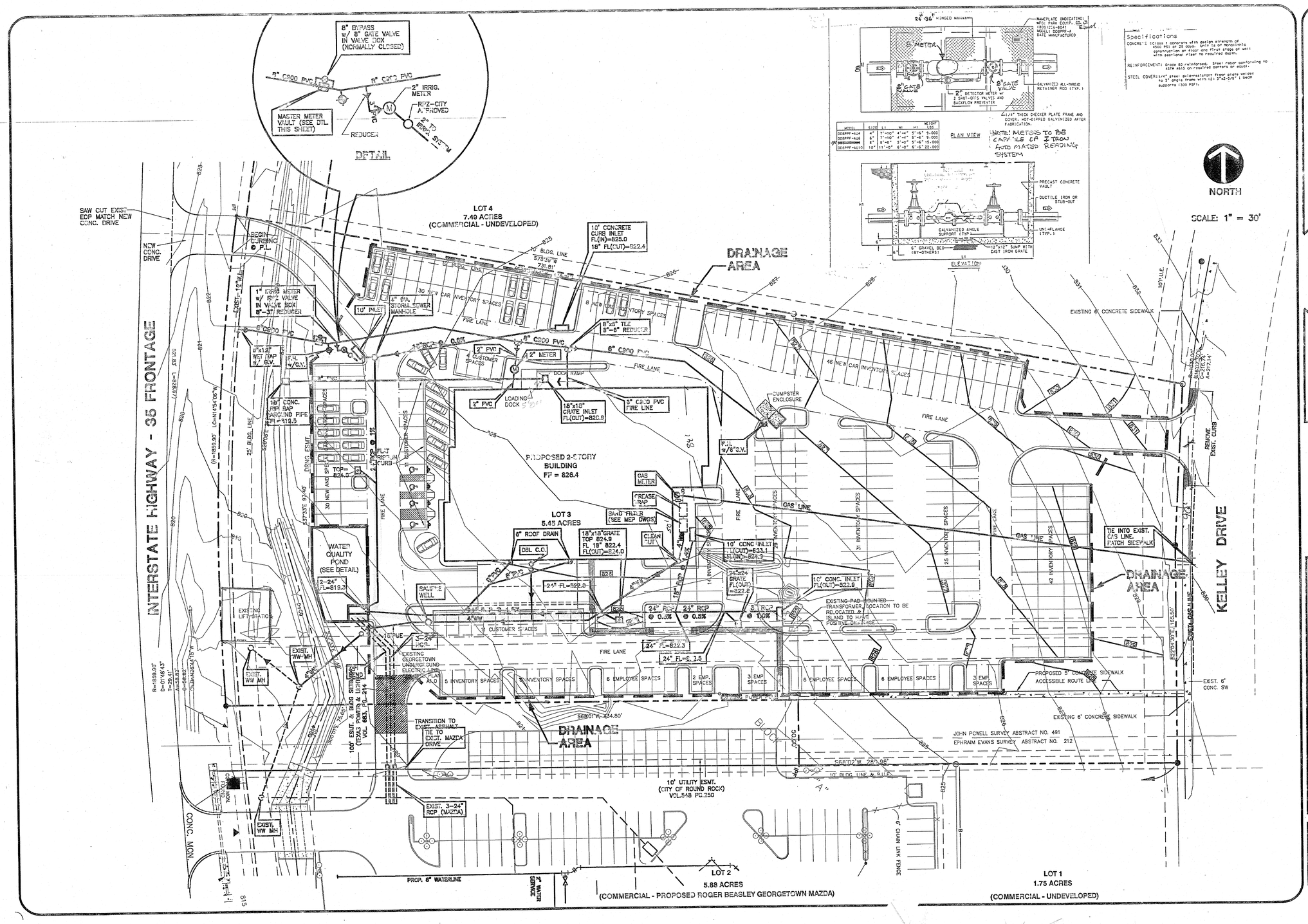

REVISIONS:

DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

Wenzel Engineering Inc.
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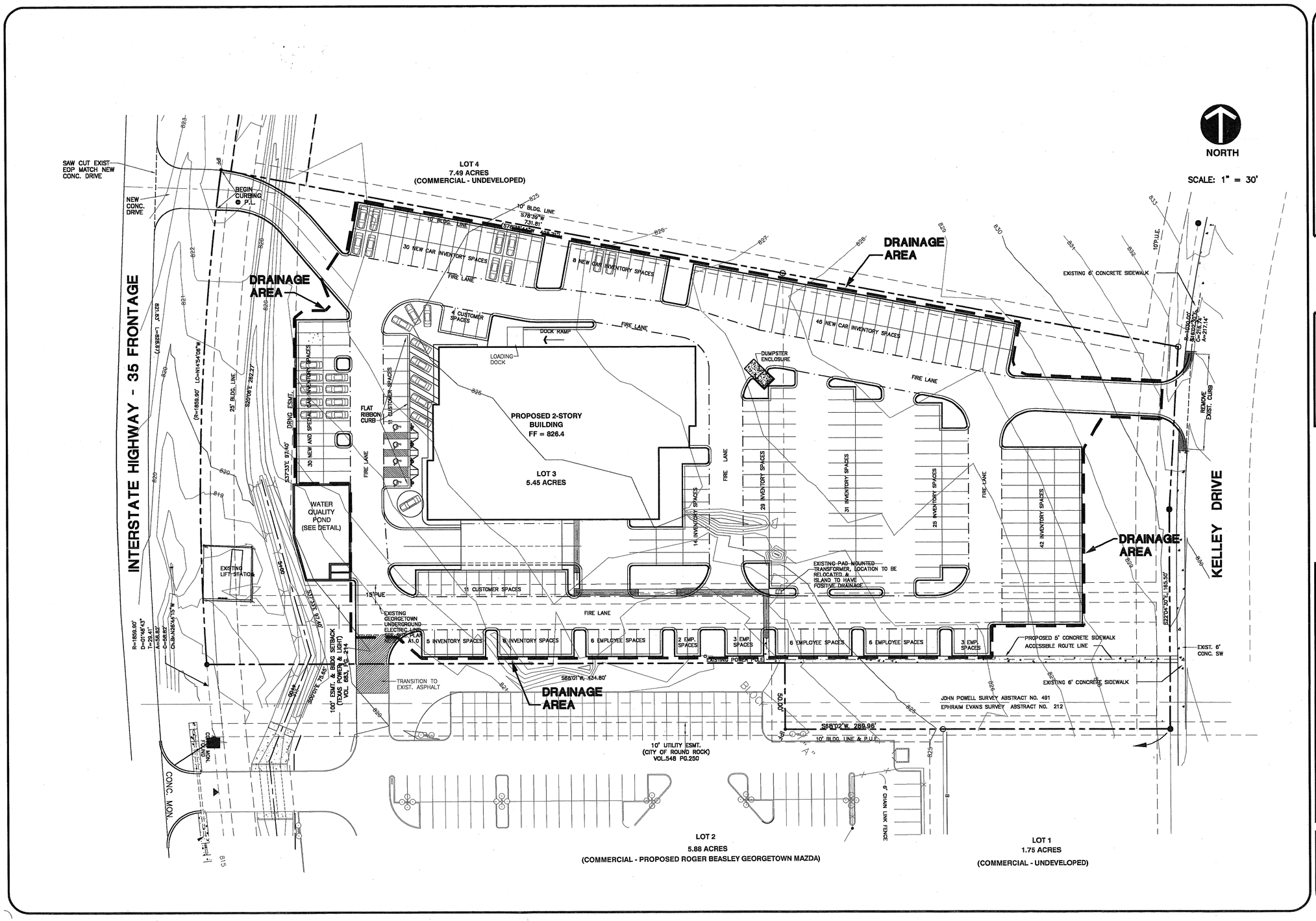
ROGER BEASLEY VOLVO GEORGETOWN

UTILITY PLAN

JOB NUMBER:
NAME:
DATE: 02 OCT 2002



REVISIONS:

DESIGN BY: SKW
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ROGER BEASLEY VOLVO GEORGETOWN

DRAINAGE AREA MAP

JOB NUMBER:
NAME:
DATE: 02 OCT 2002
PAGE NUMBER:
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	Area (ac.)	SF Length	SF "n"	SF Slope	SCF Length	SCF "n"	SCF Slope					
Total	15.00	300	0.20	1.90%	280	0.20	1.90%	17.14	0.42	0.49	7.00	8.08

Q25 existing = 44.10 cfs
Q100 existing = 63.09 cfs

2, 10, 25 AND 100 YEAR DEVELOPED CONDITIONS

Manning's "n" value Calculation

n	Comment
0.05	Channel Flow, some weeds
0.018	Asphalt + Buildings
0.02	Asphalt
0.2	COA standard for 50-90% vegetated, medium brush cover
0.3	100% vegetated ground cover with areas of heavy vegetation, dense undergrowth with medium to heavy tree growth.
0.089	70% IC, n = 0.25*30% + 0.02*70%

Proposed Composite Constant Calculations

C	Comment
0.57	C2 = 0.21*30% + 0.73*70%
0.64	C10 = 0.25*30% + 0.81*70%
0.69	C25 = 0.29*30% + 0.86*70%
0.77	C100 = 0.36*30% + 0.95*70%

PROPOSED

Existing

	Area (Ac)	SF Length (ft)	SF "n"	SF Slope	SCF Length (ft)	SCF "n"	SCF Slope	Chan L (ft)	Chan "n"	Chan Slope	Chan V (fps)	Tc* (min)	Tlag (Hours)
Kelley Drive South	1.92	12	0.20	1.00%	36	0.02	2.00%	550 in gutter	0.05	2.00%	4.89	2.53 + 3.5 minutes in Storm Sewer to detention pond	0.060

Peak Flow Calculation

Area (Ac)	Tc* (min)	C 2	C 10	C 25	C 100	I 2 (in/hr)	I 10 (in/hr)	I 25 (in/hr)	I 100 (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)
1.92	6.03	0.57	0.64	0.69	0.77	6.21	8.32	9.50	11.49	6.80	10.22	12.58	16.98

6.03=2.53+3.5

Lot 1 Tc Calculation

Area (Ac)	SF Length (ft)	SF "n"	SF Slope	SCF Length (ft)	SCF "n"	SCF Slope	Chan L (ft)	Chan "n"	Chan Slope	Chan V (fps)	Tc* (min)	Tlag (Hours)
1.75	250	0.07	1.90%	200	0.07	1.90%	275 storm sewer to detention	0.050	1.90%	4.77	5.95	0.059

Peak Flow Calculation

Area (Ac)	Tc* (min)	C 2	C 10	C 25	C 100	I 2 (in/hr)	I 10 (in/hr)	I 25 (in/hr)	I 100 (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)
1.75	5.95	0.57	0.64	0.69	0.77	6.23	8.34	9.52	11.52	6.22	9.34	11.50	15.52

Lot 2 Tc Calculation

Area (Ac)	SF Length (ft)	SF "n"	SF Slope	SCF Length (ft)	SCF "n"	SCF Slope	Chan L (ft)	Chan "n"	Chan Slope	Chan V (fps)	Tc* (min)	Tlag (Hours)
5.88	300	0.07	1.90%	250	0.07	1.90%	0	0.05	1.90%	4.77	6.07	0.061

Peak Flow Calculation

Area (Ac)	Tc* (min)	C 2	C 10	C 25	C 100	I 2 (in/hr)	I 10 (in/hr)	I 25 (in/hr)	I 100 (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)
5.88	6.07	0.57	0.64	0.69	0.77	6.20	8.30	9.48	11.47	20.79	31.25	38.48	51.94

Lot 3 — MAZDA SITE — Tc Calculation

Area (Ac)	SF Length (ft)	SF "n"	SF Slope	SCF Length (ft)	SCF "n"	SCF Slope	Chan L (ft)	Chan "n"	Chan Slope	Chan V (fps)	Tc* (min)	Tlag (Hours)
5.45	300	0.07	1.82%	375	0.07	1.82%	350 storm sewer to detention	0.050	0.50%	2.45	9.73	0.097

Peak Flow Calculation

Area (Ac)	Tc* (min)	C 2	C 10	C 25	C 100	I 2 (in/hr)	I 10 (in/hr)	I 25 (in/hr)	I 100 (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)
5.45	9.73	0.57	0.64	0.69	0.77	5.42	7.35	8.46	10.29	16.84	25.62	31.82	43.19

* Note: Tc is for Sheet flow + Shallow Concentrated flow + Channel flow

Q25 developed = 94.38 cfs
Q100 developed = 127.63 cfs

Composite C = 0.77
CA proposed = 11.55 = 0.77 * (1.92+1.75+5.88+5.45)
I proposed = 11.52 = longest intensity
Tc proposed = 9.73 = longest Tc

Composite C = 0.69
CA proposed = 10.35 = 0.69 * (1.92+1.75+5.88+5.45)
I proposed = 9.52 = longest intensity
Tc proposed = 9.73 = longest Tc

100 YEAR DETENTION VOLUME CALCULATION

For Td > 30 Minutes:
a = 0.0404
b = 45.5062
c = 0.06874

$$Td = 60\left[\frac{Q(allow) - 2c * (C * A\ prop)}{2ab * (C * A\ prop)}\right]^{1/a-1} = 40.79 \text{ min.}$$

For Td < 30 Minutes:
a = 1.489
b = -9.3372
c = 13.1656

$$Td = 60\left[\frac{Q(allow) - 2c * (C * A\ prop)}{2ab * (C * A\ prop)}\right]^{1/a-1} = 33.36 \text{ min.}$$

25 YEAR DETENTION VOLUME CALCULATION

For Td > 30 Minutes:
a = -0.06401
b = -21.3345
c = 0.084026

$$Td = 60\left[\frac{Q(allow) - 2c * (C * A\ prop)}{2ab * (C * A\ prop)}\right]^{1/a-1} =$$

a = 1.2808
b = -10.734
c = 14.1183

$$Td = 60\left[\frac{Q(allow) - 2c * (C * A\ prop)}{2ab * (C * A\ prop)}\right]^{1/a-1} =$$

* STORMWATER DATA FROM PREVIOUSLY APPROVED GEORGETOWN MAZDA PLANS AND IS SUBMITTED FOR REFERENCE ONLY

VOLVO - GEORGETOWN
DRAINAGE CALCULATIONS
INTO THE MAZDA POND (EXISITING)

EXISTING CONDITIONS

AREA = 4.80 Acres

REACH	FLOW TYPE	SLOPE (%)	LENGTH (ft)	"n"	Tc (min)
1	1	2	300	0.3	15.15
2	2	2	300	0.3	10.6
3	3	2	300	0.3	1.20
				TOTAL Tc	26.96 min.

COMPOSITE "C"

Surface Type	Area (ac)	1 yr	2 yr	10 yr	25 yr	100 yr
Ashpalt	0.00	0.71	0.73	0.81	0.86	0.95
Rooftop/Conc.	0.00	0.73	0.75	0.83	0.88	0.97
Grass	4.80	0.31	0.33	0.38	0.42	0.49
Composite "C"		0.31	0.33	0.38	0.42	0.49

Storm Frequency	"C"	Intensity (in/hr)	Q (cfs)
1 year	0.31	2.78	4.1
2 year	0.33	3.44	5.5
10 year	0.38	3.44	6.3
25 year	0.42	5.75	11.6
100 year	0.49	7.11	16.7

PROPOSED CONDITIONS

AREA = 4.80 Acres

REACH	FLOW TYPE	SLOPE (%)	LENGTH (ft)	"n"	Tc (min)
1	1	2	300	0.15	7.58
2	2	2	300	0.02	0.7
3	3	2	300	0.02	1.00
				TOTAL Tc	9.28 min.

COMPOSITE "C"

Surface Type	Area (ac)	1 yr	2 yr	10 yr	25 yr	100 yr
Ashpalt	3.20	0.71	0.73	0.81	0.86	0.95
Rooftop/Conc.	0.50	0.73	0.75	0.83	0.88	0.97
Grass	1.10	0.31	0.33	0.38	0.42	0.49
Composite "C"		0.62	0.64	0.71	0.76	0.85

Storm Frequency	"C"	Intensity (in/hr)	Q (cfs)	Td (min)	I-Td (in/hr)	SD (cu.ft.)	VOLUME PROVIDED	
1 year	0.62	4.62	13.8	38.97	2.19	9273	MAZDA	CF
2 year	0.64	5.51	16.9	43.56	2.57	12015	MAZDA	CF
10 year	0.71	5.51	18.9	42.44	2.62	13068	MAZDA	CF
25 year	0.76	8.57	31.3	54.98	3.92	24877	MAZDA	CF
100 year	0.85	10.42	42.3	55.68	4.87	33555	MAZDA	CF

WATER QUALITY POND CALCULATIONS

POND WIER CALCULATIONS
Q=CLH(1.5) , C=3, H=1.2, L=?
=3 X 1.2(1.5)/42 CFS
= 10.6 FT (11 FT PROVIDED)

SEDIMENTATION/FILTRATION CALCULATIONS
DNG AREA= 4.8 AC @ 70% I.C.
WQV= 1.0 IN X D. A. = 17,424 C.F. (PROVIDED=16,588 CF)

MINIMUM POND DESIGN CRITERIA:
H= 1.0 Ds= 5.5
As=AdH(1/Ds-1/10)= 1,426 SF (PROVIDED 1,400 SF)
Af = Ad H/10 = 1,742 SF (PROVIDED 1,620 SF)

FILTRATION VOL. =20% MIN OF WQV
= 3485 C.F. (PROVIDED 8,910 CF)

TABLE 1-7
CLAY LINER SPECIFICATIONS

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
PERMEABILITY	ASTM D-2434	Cm/Sec	1×10^{-8}
PLASTICITY INDEX OF CLAY	ASTM D-423 & D-424	%	NOT LESS THAN 15
LIQUID LIMIT OF CLAY	ASTM D-2216	%	NOT LESS THAN 30
CLAY PARTICLES PASSING	ASTM D-422	%	NOT LESS THAN 30
CLAY COMPACTION	ASTM D-2216	%	95% OF STANDARD PROCTOR DENSITY

SOURCE: CITY OF AUSTIN

THE CLAY LINER SHALL HAVE A MINIMUM THICKNESS OF 12 INCHES.

IF A GEOMEMBRANE LINER IS USED IT SHALL HAVE A MINIMUM THICKNESS OF 30 MILS AND BE ULTRAVIOLET RESISTANT.

THE GEOTEXTILE FABRIC (FOR PROTECTION OF GEOMEMBRANE) SHALL MEET THE FOLLOWING SPECIFICATIONS:

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
MATERIAL	NONWOVEN GEOTEXTILE FABRIC		
UNIT WEIGHT		OZ/SQ.YD.	8 (MIN)
FILTRATION RATE		IN/SEC	0.08 (MIN)
PUNCTURE STRENGTH	ASTM D-751 (MODIFIED)	LB.	125 (MIN)
MULLEN BURST STRENGTH	ASTM D-751	PSI	400 (MIN)
TENSILE STRENGTH	ASTM D-1682	LB.	300 (MIN)
EQUIV. OPENING SIZE	US STANDARD SIEVE	NO.	80 (MIN)

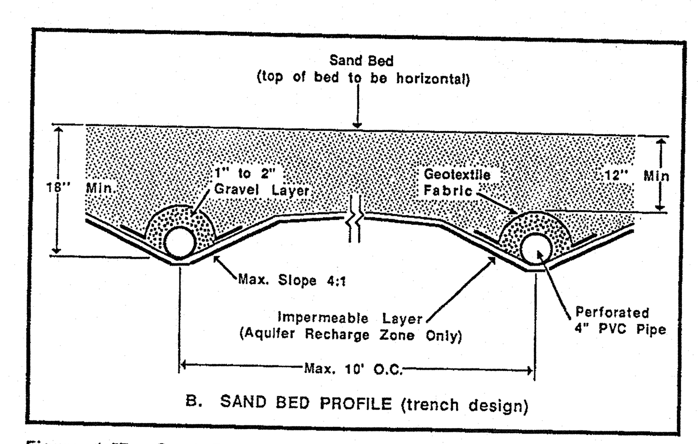
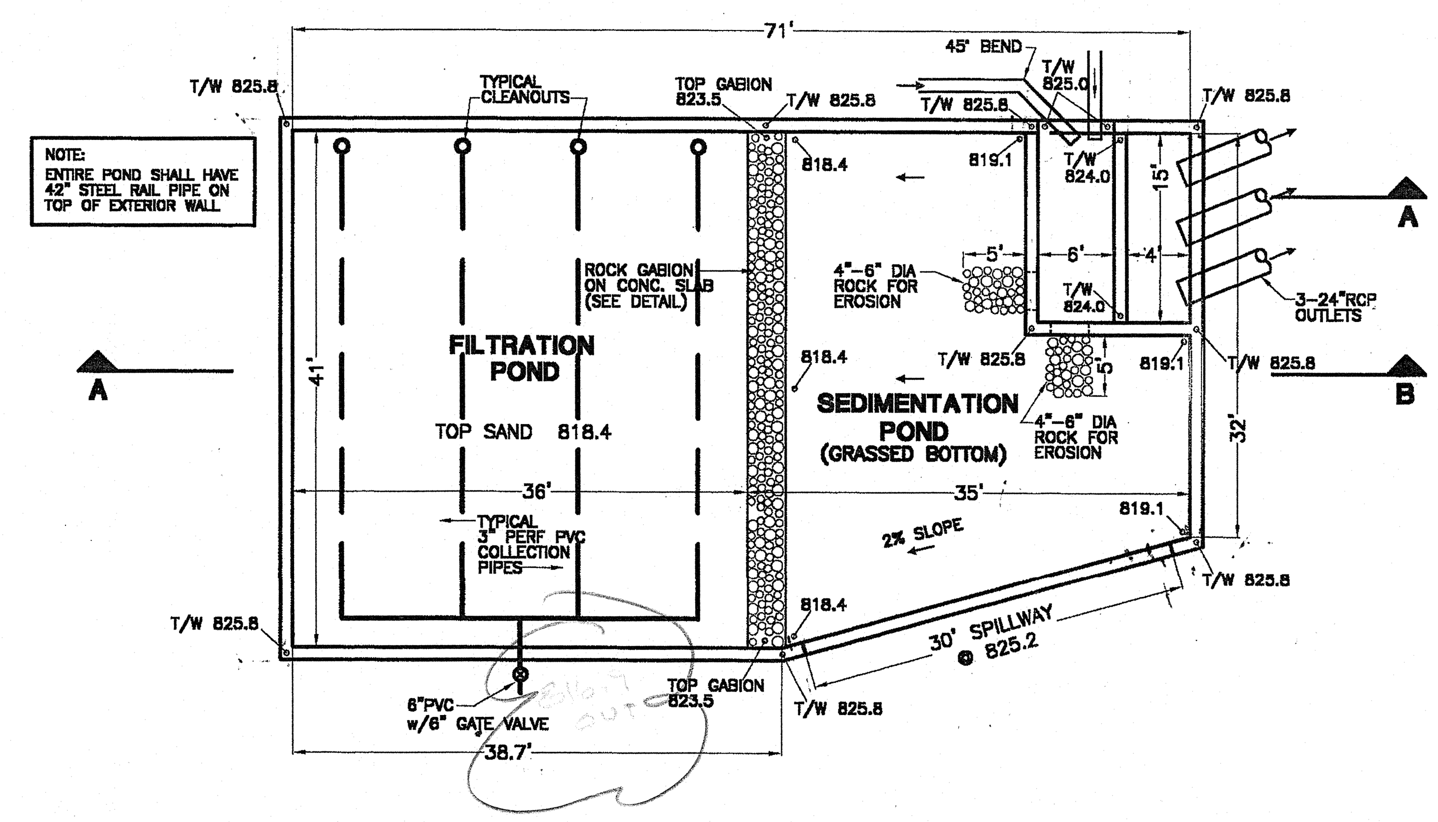


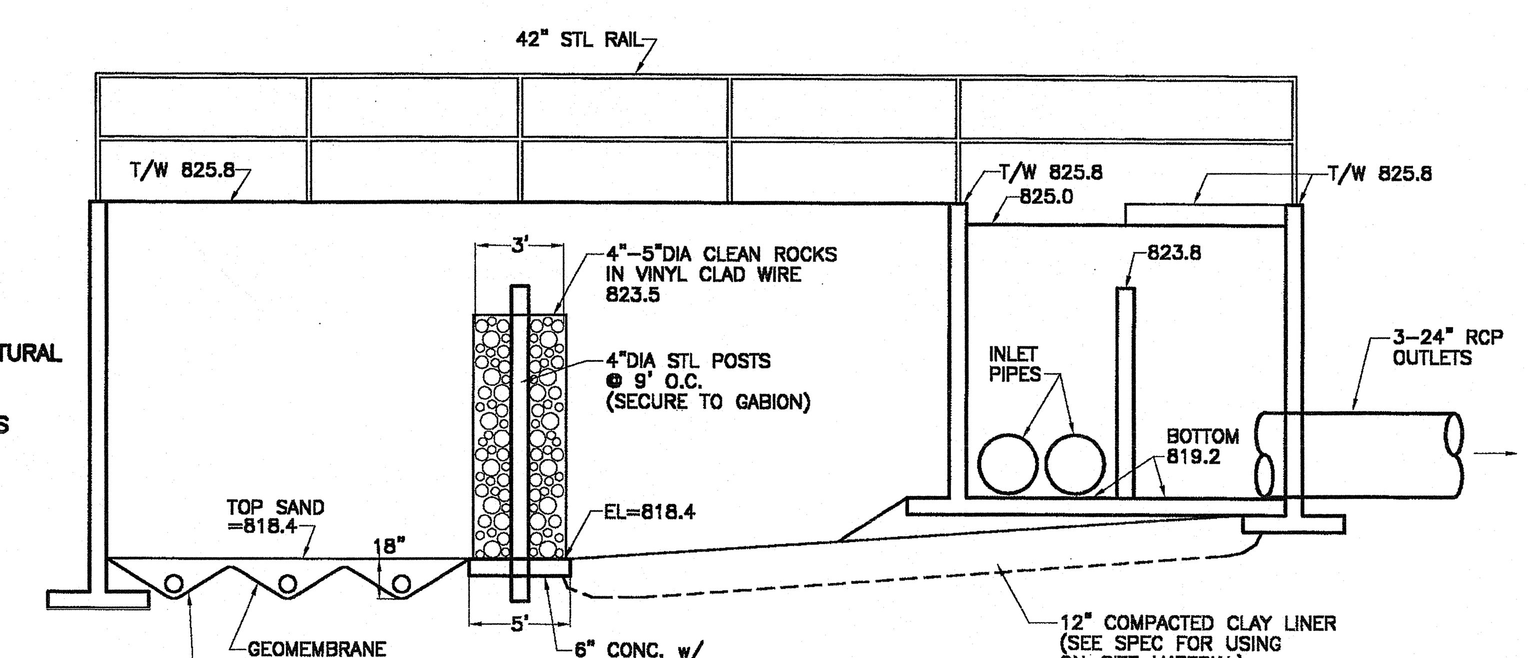
Figure 1-57 Sand Bed Filtration Configurations

DETENTION POND NOTE:
THIS SITE WAS ACCOMMODATED IN THE GEORGETOWN MAZDA DETENTION POND

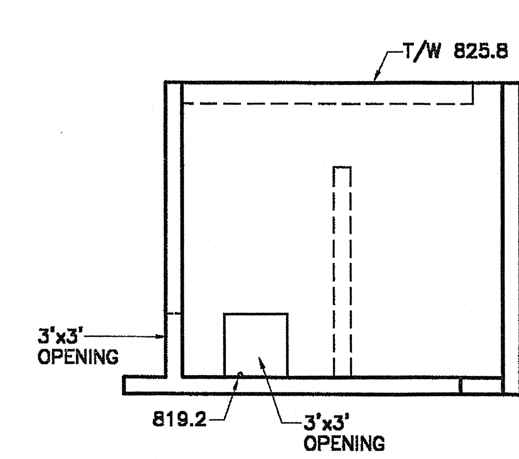


SEDIMENTATION / FILTRATION POND DETAIL
1" = 10'

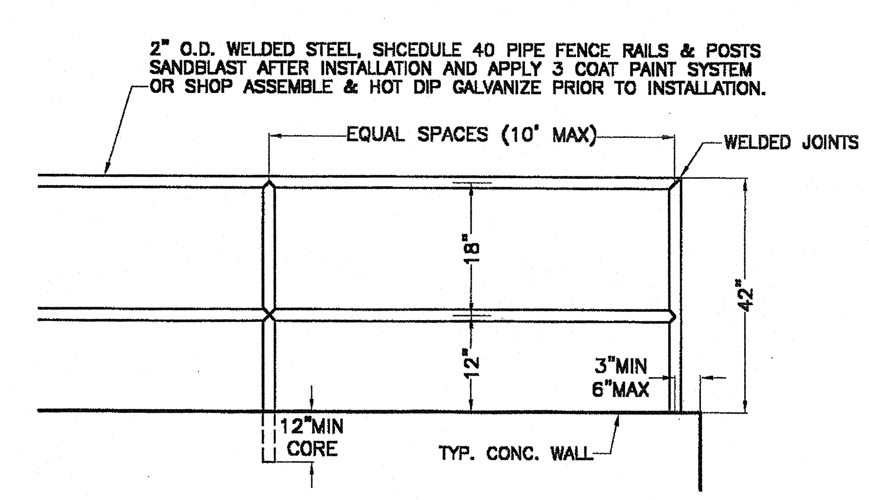
NOTE:
SEE STRUCTURAL PLANS FOR REMAINING WALL SPECS



SECTION A-A
NTS



SECTION B
NTS



NOTE: PIPE RAILING TO EXTEND AROUND THE PERIMETER OF THE POND

TWO RAIL STEEL FENCE
NTS

REVISIONS:

DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

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ROGER BEASLEY VOLVO
GEORGETOWN
WQ & CULVERT DETAILS

JOB NUMBER:
NAME:
DATE: 02 OCT 2002
PAGE NUMBER:
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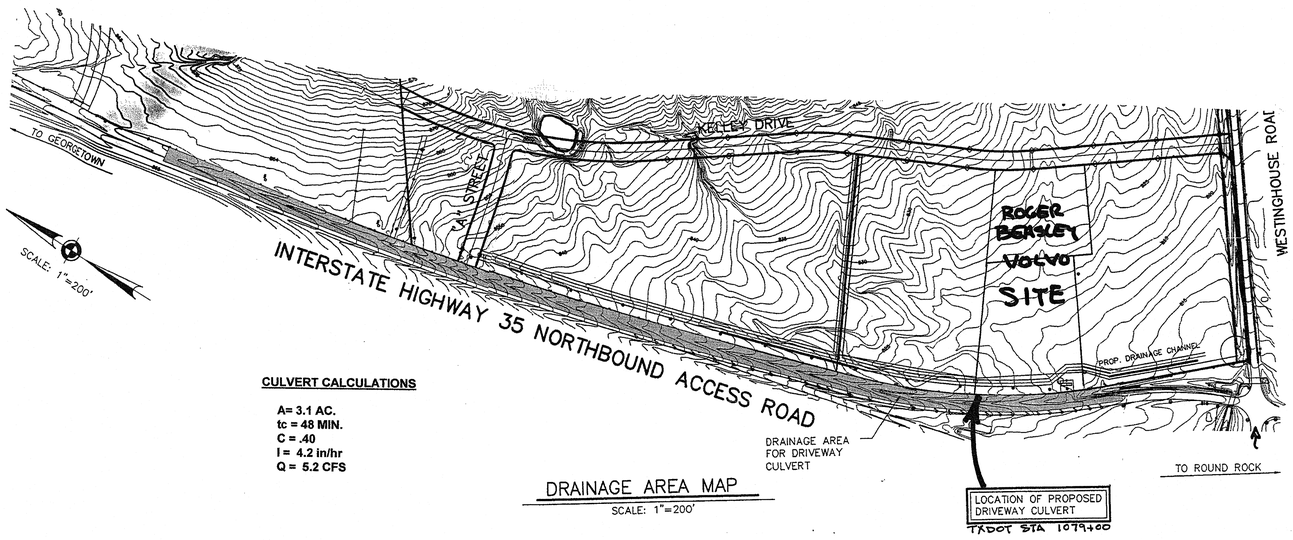
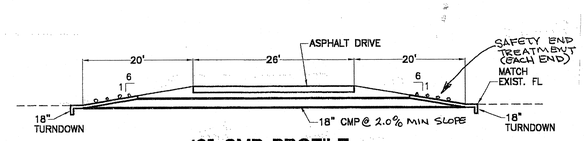


CULVERT CALCULATIONS

A= 3.1 AC.
tc = 48 MIN.
C = .40
I = 4.2 in/hr
Q = 5.2 CFS

DRAINAGE AREA MAP
SCALE: 1"=200'



18" CMP PROFILE
(TxDOT R.O.W.)

REVISIONS:

DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

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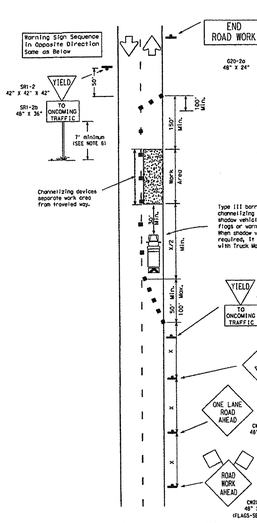
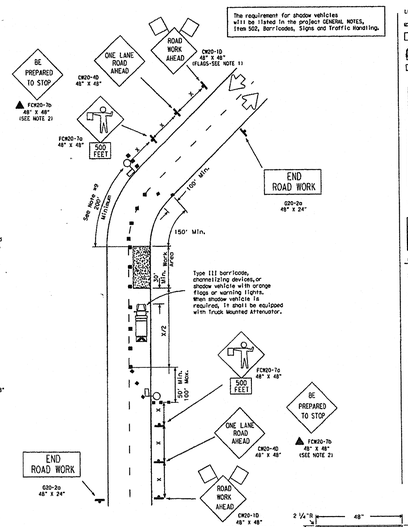
ROGER BEASLEY VOLVO
GEORGETOWN

TxDOT DRIVEWAY DETAILS



TCP (1-2a)

One Lane Closed
Adequate Field of View



TCP (1-2b)

One Lane Closed
Inadequate Field of View

The requirement for shadow vehicles will be listed in the project GENERAL NOTES, Item 502, Barricades, Signs and Traffic Handling.

LEGEND

Type III Barricade; Channelizing Devices; Flag; Heavy Work Vehicle; Truck Mounted Attenuator; Trailer Mounted Flashing Arrow Panel; Portable Changeable Message Sign; Flagger; Sign Post

Posted Speed S	Formula	Minimum Desirable Taper Lengths M ft			Suggested Maximum Spacing of Device		Minimum Sign Spacing Distance
		12' Offset	11' Offset	10' Offset	On a Tangent	On a Tangent	
30	L = S²W / 60	150'	165'	180'	30'	60'-75'	120'
35		205'	225'	245'	35'	70'-90'	160'
40		265'	295'	320'	40'	80'-100'	240'
45		450'	495'	540'	45'	90'-110'	320'
50	L = WS	500'	550'	600'	50'	100'-125'	400'
55		550'	605'	660'	55'	110'-140'	500'
60		600'	660'	720'	60'	120'-150'	* 600'
65		650'	715'	780'	65'	130'-165'	* 700'
70		700'	770'	840'	70'	140'-175'	* 800'

* Conventional Roads Only
NOTE Taper lengths have been rounded off.
L=Length of Taper (ft.) W=Width of Offset (ft.) S=Posted Speed (MPH)

MOBILE	TYPICAL USAGES			
	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES:

1. Flags attached to signs are REQUIRED.
2. All traffic control devices illuminated are REQUIRED, except those covered with an opaque material. Reflectorized devices may be omitted when stated elsewhere in the plans.
3. The BE PREPARED TO STOP sign may be installed after the ONE LANE ROAD AHEAD sign, but proper sign spacing shall be maintained.
4. ROAD WORK AHEAD sign may be repeated if the visibility of the work zone is less than 1500'.

TCP(1-2b):

5. YIELD sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work zones should be no longer than one half city block. In rural areas on roadways with less than 4000 ADT, work areas should be no longer than 400'.
6. YIELD TO ONCOMING TRAFFIC sign shall be placed on a support at a 7' minimum mounting height.

TCP(1-2b):

7. Flaggers should use two-way radios or other methods of communication to control traffic.
8. Length of work area should be based on the ability of flaggers to communicate.
9. Distance along curve of work area should be adequate length for motorists to identify and react to flagger signals.

Only pre-qualified products shall be used. A list of qualified products and their sources may be obtained by writing or faxing:

Standards Engineer
Traffic Operations Division - TE
Texas Department of Transportation
125 East 11th Street
Austin, Texas 78701-2483
Phone (512) 416-3335
Fax (512) 416-3099
E-Mail: SDR-DISTRIBUTION@mail.dot.state.tx.us

SR1-2b
48" x 36"

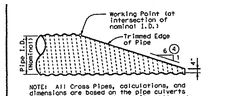
Letters - Black
Background - White
Reflective

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

TRAFFIC CONTROL PLAN

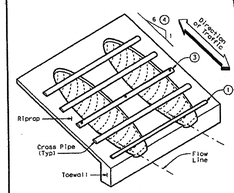
TCP(1-2)-98

©TxDOT December 1995	DN-TP	CK-TP	DW-TP	CK-TP	DN-WZ	CK-WZ
REVISIONS	FEDERAL AID PROJECT					SHEET
4-98						
2-94						
8-95						
4-98	DISTRICT		COUNTY	ROUTE	JOB	HIGHWAY

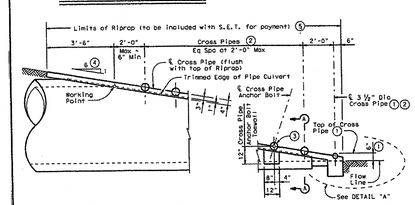


NOTE: All Cross Pipes, calculations, and dimensions are based on the pipe culverts entered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

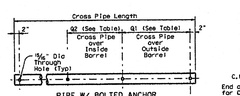
SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER
(Showing Corrugated Metal Pipe Culvert.)
(Details of Concrete Pipe Culvert are similar.)



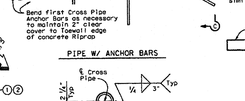
ISOMETRIC VIEW OF TYPICAL INSTALLATION



SIDE ELEVATION OF CAST-IN-PLACE CONCRETE
(Showing Concrete Pipe Culvert.)
(Details of Corrugated Metal Pipe Culvert are similar.)

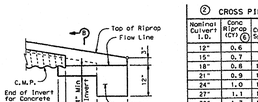


PIPE W/ ANCHOR BARS

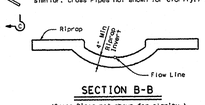


SECTION C-C

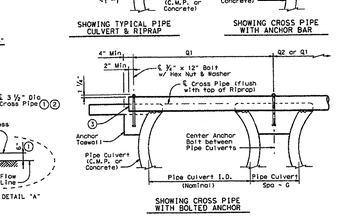
CROSS PIPE DETAILS



DETAIL "A"
(Showing Invert with Corrugated Metal Pipe Culvert. Concrete Pipe Culvert details are similar. Cross Pipes not shown for clarity.)



SECTION B-B
(Cross Pipes not shown for clarity.)



SHOWING TYPICAL PIPE CULVERT & RIPRAP

SHOWING CROSS PIPE WITH ANCHOR BAR

SHOWING CROSS PIPE WITH BOLTED ANCHOR

SECTION A-A

② CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, & RIPRAP QUANTITIES

Nominal Culvert I.D.	Conc Riprap (CY) ⑥	Pipe Culvert Spa ~ G	Single Pipe Culvert ~ Q1	Multi-Pipe Culvert ~ Q1	Q2	Conditions for Use of Cross Pipes	Cross Pipe Size
12"	0.6	9"	N/A	2'-1"	1'-9"	3 or more Pipe Culverts	3" Std (3.500" O.D.)
15"	0.7	11"	N/A	2'-5"	2'-2"		
18"	0.8	1'-2"	N/A	2'-10"	2'-8"		
21"	0.9	1'-4"	N/A	3'-2"	3'-1"		
24"	1.0	1'-7"	N/A	3'-6"	3'-7"		
27"	1.1	1'-8"	N/A	3'-10"	3'-11"	3 or more Pipe Culverts	3 1/2" Std (4.000" O.D.)
30"	1.3	1'-10"	N/A	4'-2"	4'-4"	2 or more Pipe Culverts	
33"	1.4	1'-11"	4'-2"	4'-5"	4'-8"	All Pipe Culverts	
36"	1.5	2'-1"	4'-5"	4'-9"	5'-1"	All Pipe Culverts	4" Std (4.500" O.D.)
42"	1.8	2'-4"	4'-11"	5'-5"	5'-10"		
48"	2.0	2'-7"	5'-5"	6'-0"	6'-7"	All Pipe Culverts	5" Std (5.563" O.D.)
54"	2.3	3'-0"	5'-11"	6'-9"	7'-6"		
60"	2.6	3'-3"	6'-5"	7'-4"	8'-3"		
66"	3.0	3'-3"	6'-11"	7'-10"	8'-9"		
72"	3.3	3'-4"	7'-5"	8'-5"	9'-4"		

① The proper installation of the first Cross Pipe is critical to the vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.

② Size of Cross Pipes, except the first bottom pipe, shall be as shown in the Pipe Size Table. The first bottom pipe shall be 3 1/2" Standard Pipe (4" O.D.).

③ The third Cross Pipe from the bottom of the Culvert shall always be installed using a bolted connection. This shall also be used if the Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access. At the Contractor's option, all other Cross Pipes may also be installed using the bolted connection details.

④ Match Cross Slope as shown elsewhere in the plans. Cross Slope of 6:1 or flatter is required for vehicle safety.

⑤ Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".

⑥ Quantities shown are for one end of one reinforced Concrete Pipe Culvert. For multiple pipe culverts, or for Corrugated Metal Pipe Culverts, these values will need to be adjusted. Riprap quantities are for Contractor's information only.

GENERAL NOTES:

Cross Pipes are designed for a traversing load of 10,000 pounds. At yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Safety End Treatments shown herein are intended for use on roadways with low traffic volume and control vehicles not likely to traverse the opening approximately perpendicular to the Cross Pipes.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap".

Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Cross Pipes shall conform to the requirements of ASTM A760, Type I, Grade B1, ASTM A500 (Grade A), or API 5L X52.

Bolts and nuts shall conform to ASTM A307.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department of Transportation
Bridge Division

SAFETY END TREATMENT
FOR 12" DIA TO 72" DIA
PIPE CULVERTS
TYPE II ~ PARALLEL DRAINAGE

SETP-PD

FILE: SETPPD96.DGN	DN: CAT	CK: CAT	DW:	CK: JBP	CK: CAT	
©TxDOT September 2000	DISTRICT		FEDERAL AID PROJECT			SHEET
REVISIONS						
7-96 REVISED PER AASHTO LTRFD 9-94 GENERAL REVISIONS	COUNTY			CONTROL	SECT	JOB	HIGHWAY

JOB NUMBER:
NAME:
DATE: 02 AUG 2002
PAGE NUMBER:
8of9

VOLVO GEORGETOWN
48" CULVERTS

DRAINAGE AREA
PROPOSED CONDITIONS
AREA 59.00 Acres

REACH	FLOW TYPE	SLOPE (%)	LENGTH (ft)	"n"	Tc (min)
1	1	2	300	0.3	15.2
2	2	3	400	0.3	6.7
3	3*	1	2200	0.3	12.2
*assume 3 fps					
				TOTAL Tc	34.04

Surface Type	Area (ac)	COMPOSITE "C" 2 yr	10 yr	25 yr	100 yr
Ashpalt	19.00	0.73	0.81	0.86	0.95
Rooftop/Conc.	21.00	0.75	0.83	0.88	0.97
Gravel	0.00	0.33	0.38	0.42	0.49
Grass	19.00	0.33	0.38	0.42	0.49
TOTAL	59.00	0.61	0.68	0.73	0.81

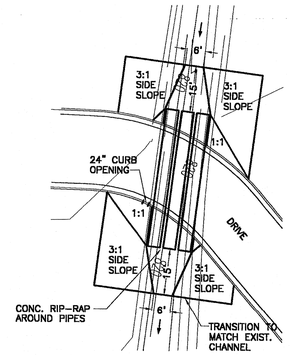
Storm Frequency	"C"	Intensity (in/hr)	Q (cfs)
2 year	0.61	3.01	**107.9**
10 year	0.68	4.32	**173.0**
25 year	0.73	5.12	**219.2**
100 year	0.81	6.35	**303.3**

CULVERT CAPACITY:
hw=5ft
1-48" RCP
Q=CA 2gh , C=.6, h=3, A=12.5
Q=104 CFS
FOR 3 - 48" RCP = 312 CFS
CHECK PIPE SLOPE FOR 1-48":
@1.0% = 150 CFS, OK

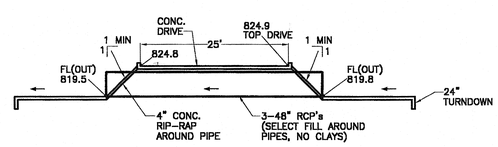
CHANNEL CAPACITY:
TRAPAZOIDAL SECTION W/ 6FT BOTTOM, 3:1 SIDES,
MANNINGS:

Side Slopes

	Section	Ditch Type	Left (z:1)	Right (z:1)	Bottom Width	Manning "n"	Depth (ft.)	Slope %	V (fps)	Q cap. (cfs)
Minimum	Typical	TRAP	3.00	3.00	6.00	0.03	3.00	0.9	**7.0**	**313.1**



3-48" RCP DETAIL



3-48" RCP PROFILE

NOTES:

1. LANE CLOSURES ARE ONLY ALLOWED FROM 9 AM TO 4 PM MONDAY THROUGH FRIDAY. EXCEPT AS SHOWN ON THE DISTRICT DESIGN RESTRICTIONS.

2. LANE CLOSURES ARE NOT ALLOWED IF PAVEMENT IS WET OR ICY.

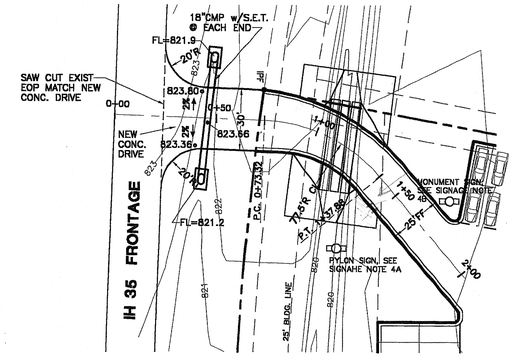
3. CONSTRUCTION WORK WITHIN THE STATE'S RIGHT OF WAY MUST BE SCHEDULED FOR MONDAY THROUGH FRIDAY.

4. THE CONTRACTOR IS TO CONTACT TxDOT AT 930-4700 AT LEAST 48 HOURS PRIDOR TO WORKING IN THE RIGHT OF WAY.

5. THE PRIMARY CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STATE ROADWAY FREE OF MUD, ROCKS AND OTHER DEBRIS. IF THE HIGHWAY BECOMES UNSAFE FOR TRAFFIC BECAUSE OF DEBRIS FROM THE CONSTRUCTION SITE. THE CONTRACTOR MUST CLEAN THE ROADWAY IMMEDIATELY AND SUSPEND WORK IF NECESSARY.

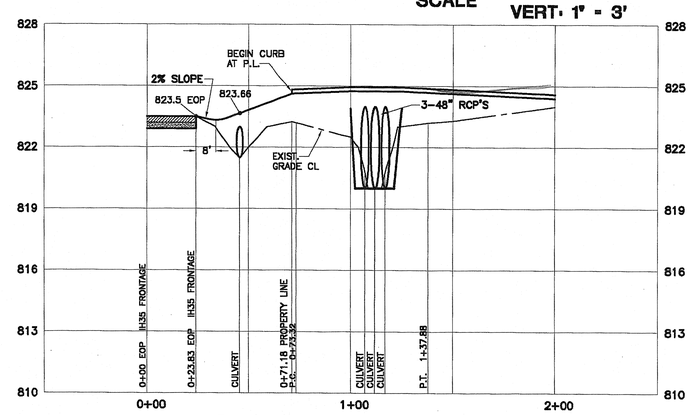
6. THE GENERAL CONTRACTOR MUST PROVIDE ON-SITE PARKING DURING ALL PHASES OF CONSTRUCTION. NO VEHICLES SHALL BE PARKED OR STORED WITHIN TxDOT RIGHT OF WAY.

7. ANY DROP OFF GREATER THAN TWO INCHES LEFT OPEN OVER NIGHT SHALL HAVE A 3:1 SAFETY WEDGE.



DRIVEWAY PLAN VIEW
1" = 30'

SCALE HORIZ: 1" = 30'
VERT: 1" = 3'



DRIVEWAY PROFILE

REVISIONS:

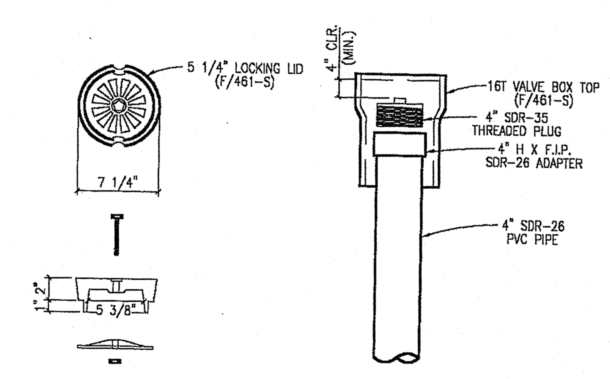
DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

Wenzel Engineering Inc.
7005 KENOSHA PASS
Austin, Texas 78749
512 - 301-7480

ROGER BEASLEY VOLVO
GEORGETOWN

TxDOT DRIVEWAY DETAILS

JOB NUMBER:
NAME:
DATE: 02 OCT 2002
PAGE NUMBER:
8Aof9

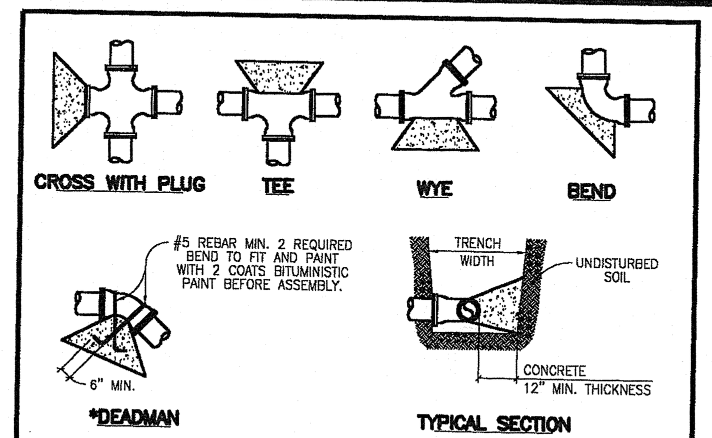


5 1/4" LOCKING LID
(F/461-S)

SEWER CLEAN-OUT
CITY OF GEORGETOWN (RESIDENTIAL SERVICE)

ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # WW-12 — WW12.DWG
SEWER CLEAN-OUT DETAIL
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS



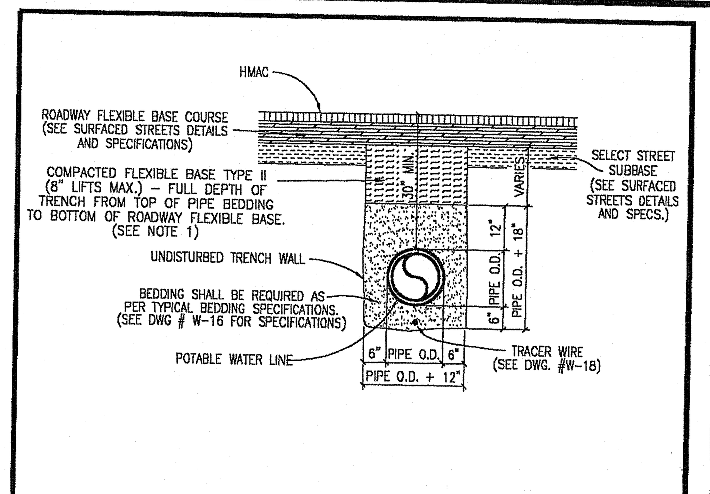
ALL THRUST BLOCKS SHALL BE FORMED. LAID FORMS SHALL BE INSPECTED BY THE CITY OF GEORGETOWN PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY THE CITY OF GEORGETOWN PRIOR TO COVERING. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REACTION (THRUST) BLOCKS, FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER. CONCRETE SHALL HAVE 2500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS. AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH VISQUEEN OR OTHER ACCEPTABLE MATERIAL. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK.

PIPE SIZE	THRUST BLOCK AREA REQUIRED	PIPE SIZE	THRUST BLOCK AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BENDS, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 33% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES, THE AREA REQUIRED IS IN DIRECT PROPORTION.
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

* THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE DEADMAN REQUIRED AS WELL AS ANY INSTALLATION WHICH IS NOT COVERED BY THE ABOVE.

ISSUE DATE: APRIL 2001 | REVISIONS | 6/12/01 DWW MRS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # W-11 — W11.DWG
TYP. THRUST BLOCKS FOR WATER AND FORCE MAINS
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

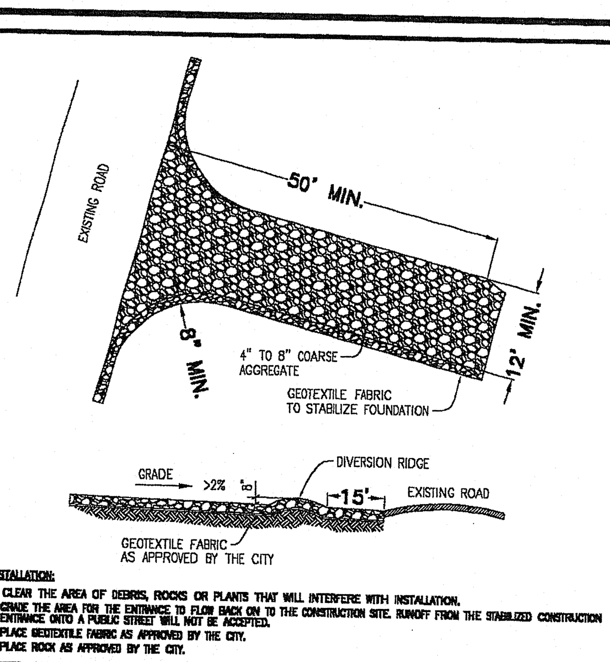


NOTES:

1. A MINIMUM OF ONE DENSITY TEST SHALL BE TAKEN EVERY TWO HUNDRED (200) FEET FOR EACH EIGHT (8) INCH LIFT OF BASE. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY OR THE PERMITTEE'S CONSULTANTS. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AT THE TIME THE PERMIT WAS ISSUED. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO CITY OF GEORGETOWN. BACKFILL COMPACTION SHALL BE A MINIMUM OF 95% MAXIMUM DENSITY PER TxDOT 113E SPECIFICATIONS.
2. THESE SPECIFICATIONS MAY BE SUPERSEDED BY THE GOVERNING AGENCY.
3. CONTRACTOR OR ENGINEER MAY REQUEST FOR USE OF ALTERNATE BACKFILL MATERIAL. ALTERNATE MATERIALS AND TESTING PROTOCOL MUST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.

ISSUE DATE: APRIL 2001 | REVISIONS | 9/24/01 DWW MRS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # W-22 — W22.DWG
TRENCH AND EMBEDMENT DETAIL UNDER PROPOSED ROADWAY
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

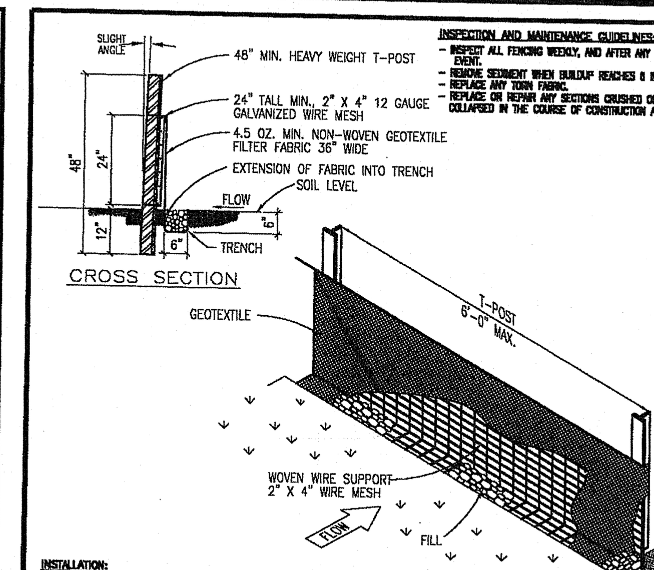


INSTALLATION:
- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE STABILIZED CONSTRUCTION
- ENTRANCE ONTO A PUBLIC STREET WILL NOT BE ACCEPTED.
- PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
- PLACE ROCK AS APPROVED BY THE CITY.

INSPECTIONS AND MAINTENANCE GUIDELINES:
- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

ISSUE DATE: APRIL 2001 | REVISIONS | 11/15/01 MRS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # EC-06 — EC06.DWG
STABILIZED CONSTRUCTION ENTRANCE
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS



INSPECTION AND MAINTENANCE GUIDELINES:
- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL EVENT.
- REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
- REPLACE ANY TORN FABRIC.
- REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY.

INSTALLATION:
- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE PER PLANS.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 11 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 6 TIMES WITH HOG RINGS.
- THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 11" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1".
- ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # EC-02 — EC02.DWG
SILT FENCE DETAIL
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

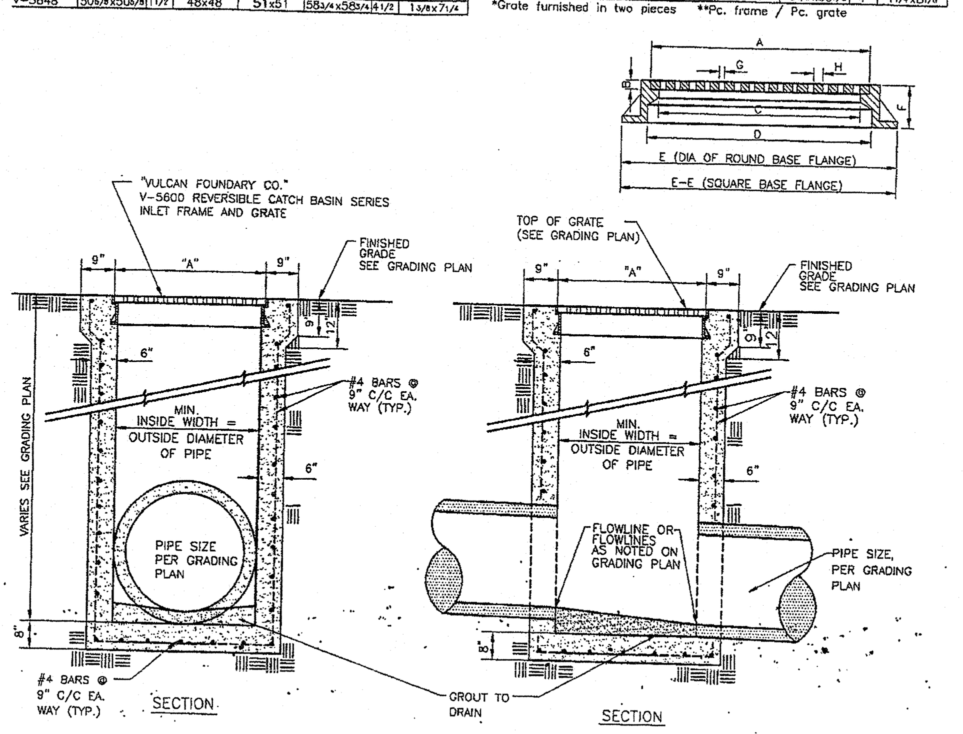
VULCAN SERIES — Square

Part No.	A	B	C	D	E	F	G
V-5613	13 3/8x13 3/8	1 3/8	12x12	13x13	19 5/8x19 5/8	4	1 3/8x4 7/8
V-5620	19 3/4x19 3/4	1 1/2	18x18	20x20	25 1/2x25 1/2	4	1 1/4x8 1/8
V-5622	23 3/4x23 3/4	1 1/2	22x22	24x24	29 1/4x29 1/4	4	1 1/4x6 5/8
V-5624	25 3/4x25 3/4	1 1/2	24x24	26x26	31 1/2x31 1/2	4	1 1/4x7 1/4
V-5626-1	25 3/4x25 3/4	2	24x24	26x26	32x32	5	1 1/2x7 1/4
V-5626-2	25 3/4x25 3/4	2	24x24	26x26	32x32	6	1 1/2x7 1/4
V-5630	31 3/4x31 3/4	1 1/2	30x30	32x32	37 1/2x37 1/2	4	15/16x6 5/8
V-5636	37 3/4x37 3/4	1 1/2	36x36	38x38	43 1/2x43 1/2	4	1 3/8x8 1/8
*V-5642	43 7/8x43 7/8	2	42x42	44x44	50 1/8x50 1/8	5	1 3/8x7 1/2
**V-5648	50 5/8x50 5/8	1 1/2	48x48	51x51	58 3/4x58 3/4	4 1/2	1 3/8x7 1/4

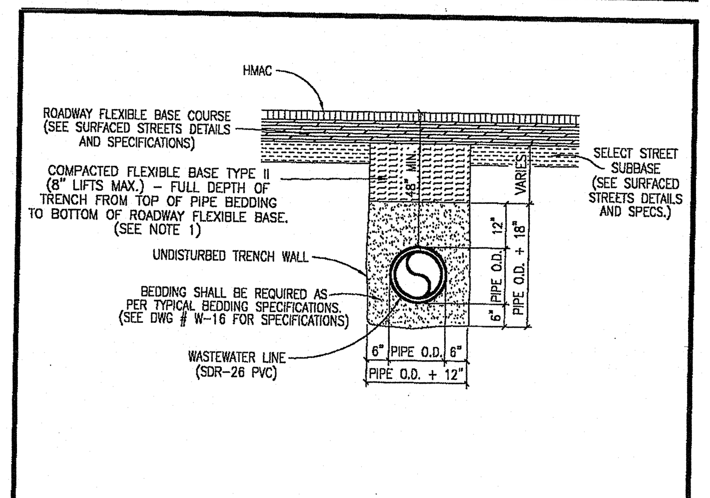
Rectangular

Part No.	A	B	C	D	E	F	G
V-5654	19 3/4x19 3/4	1 3/8	18x24	20x26	25 1/2x31 1/2	4	1 1/4x8 1/8
V-5655	19 3/4x31 3/4	1 1/2	18x30	20x32	25 1/2x37 1/2	4	1 1/4x8 1/8
V-5656	19 3/4x37 3/4	1 1/2	18x36	20x38	25 1/2x43 1/2	4	1 1/2x8 1/8
V-5660	23 3/4x35 3/4	1 1/2	22x34	24x36	29 1/2x41 1/2	4	1 1/4x6 9/16
V-5682	25 3/4x31 3/4	1 1/2	24x30	26x32	31 1/2x37 1/2	4	1 1/4x7 1/4
V-5665	25 3/4x37 3/4	1 1/2	24x36	26x38	31 1/2x43 1/2	4	1 1/4x7 1/4
*V-5667	25 3/4x49 3/4	1 1/2	24x48	26x50	31 1/2x55 1/2	4	1 1/4x7 1/4
V-5668	31 3/4x37 3/4	2	30x36	32x38	38 1/8x44 1/8	5	1 1/4x6 5/8
*V-5669	31 3/4x49 3/4	1 1/2	30x48	32x50	37 1/2x55 1/2	4	1 1/4x6 5/8
**V-5670	37 3/4x49 3/4	1 1/2	36x48	38x50	43 1/2x55 1/2	4	1 1/4x8 1/8

*Grate furnished in two pieces **Pc. frame / Pc. grate



GRATE INLET DETAIL
SCALE: N.T.S.

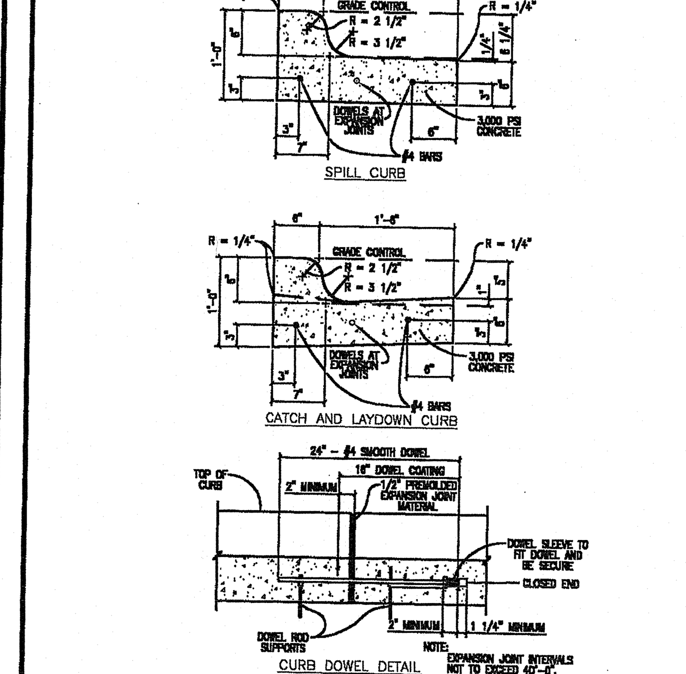


NOTES:

1. A MINIMUM OF ONE DENSITY TEST SHALL BE TAKEN EVERY TWO HUNDRED (200) FEET FOR EACH EIGHT (8) INCH LIFT OF BASE. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY OR THE PERMITTEE'S CONSULTANTS. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AT THE TIME THE PERMIT WAS ISSUED. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO CITY OF GEORGETOWN. BACKFILL COMPACTION SHALL BE A MINIMUM OF 95% MAXIMUM DENSITY PER TxDOT 113E SPECIFICATIONS.
2. THESE SPECIFICATIONS MAY BE SUPERSEDED BY THE GOVERNING AGENCY.
3. CONTRACTOR OR ENGINEER MAY REQUEST FOR USE OF ALTERNATE BACKFILL MATERIAL. ALTERNATE MATERIALS AND TESTING PROTOCOL MUST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.

ISSUE DATE: APRIL 2001 | REVISIONS | 9/24/01 MRS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # WW-19 — WW19.DWG
TRENCH AND EMBEDMENT DETAIL UNDER PROPOSED ROADWAY
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

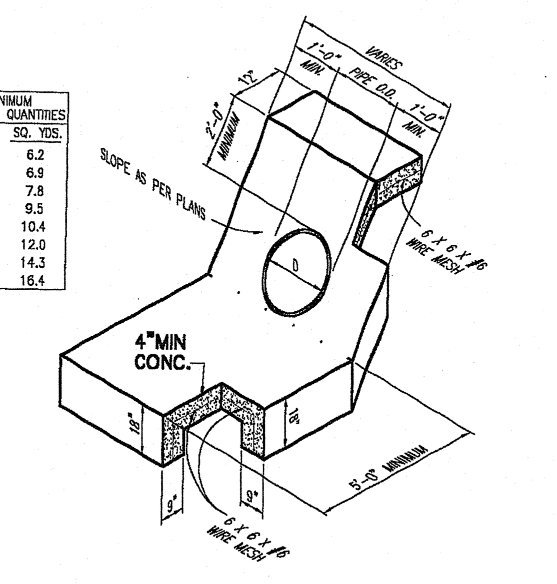


ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. #SD-07 — SD07.DWG
CURB AND GUTTER DETAILS
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

MINIMUM RIP-RAP QUANTITIES

PIPE	SQ. YDS.
18"	6.2
24"	6.9
27"	7.8
30"	9.5
36"	10.4
42"	12.0
48"	14.3
54"	16.4

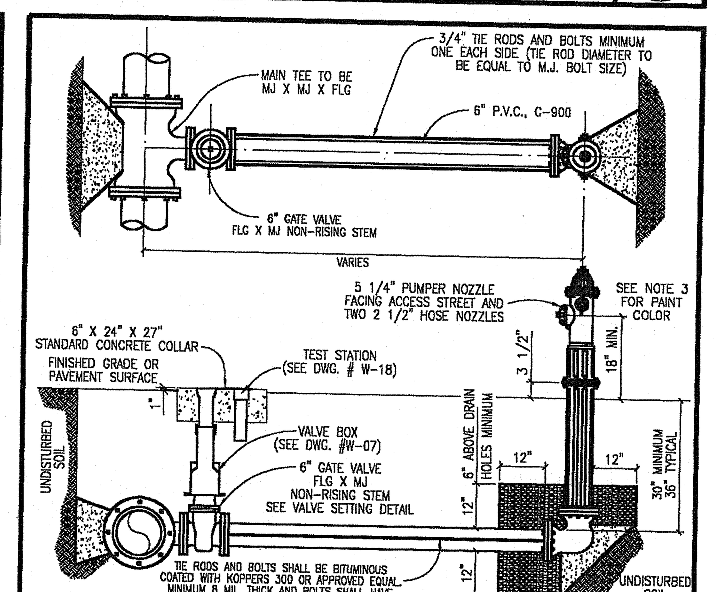


NOTES:

1. WHEN HEADWALLS AND WINGWALLS ARE REQUIRED, THEY SHALL CONFORM TO THE TEXAS HIGHWAY DEPARTMENT STANDARDS, OR AS DIRECTED BY THE CITY.
2. ENERGY DISAPPATORS IF PIPE VELOCITY EXCESSED 5.0 F.P.S. OR AS DIRECTED BY THE CITY.

ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. #SD-20 — SD20.DWG
TYP. CONCRETE RIP-RAP AT PIPE
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

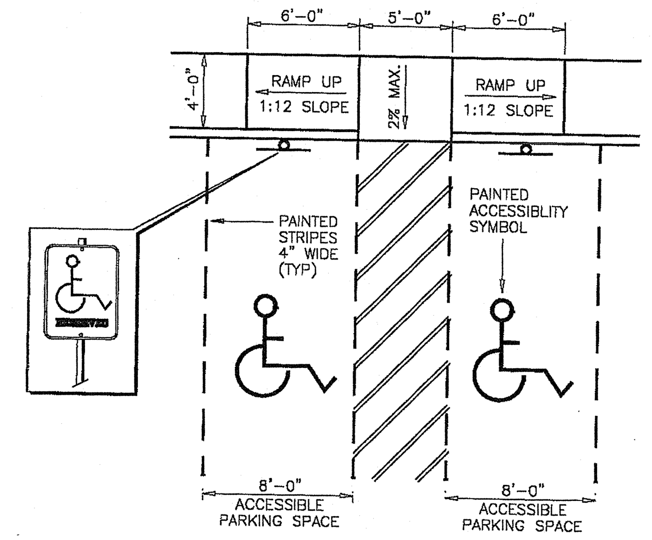


NOTES:

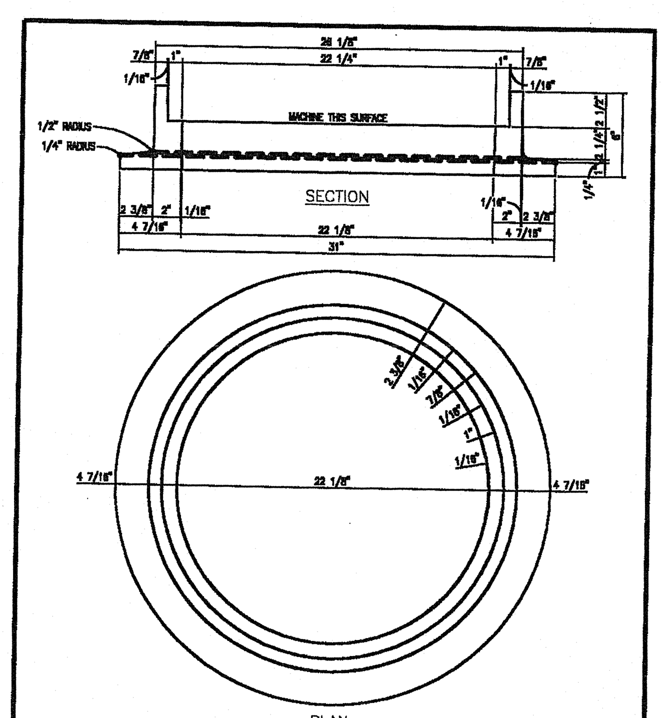
1. FIRE HYDRANT SHALL BE INSTALLED ON SAME SIDE OF ROAD AS WATER MAIN.
2. FIRE HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
3. ALL FIRE HYDRANT EXTERIORS SHALL BE FACTORY PRIMED AND PAINTED SILVER USING A HIGH GRADE ENAMEL.
4. HEEL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
5. THE ONLY FIRE HYDRANTS ACCEPTABLE ARE:
   A. KENNEDY – K81
   B. AMERICAN DARLING – B84B
   C. CLOW MEDALLION
6. DOUBLE BLUE REFLECTOR "HYE-LITES" BRAND, MANUFACTURED BY PAVEMENT MARKERS INC. TO BE INSTALLED AT CENTERLINE OF STREET PERPENDICULAR TO HYDRANT.

ISSUE DATE: APRIL 2001 | REVISIONS | 6/12/01 DWW MRS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. # W-10 — W10.DWG
TYP. FIRE HYDRANT INSTALLATION
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

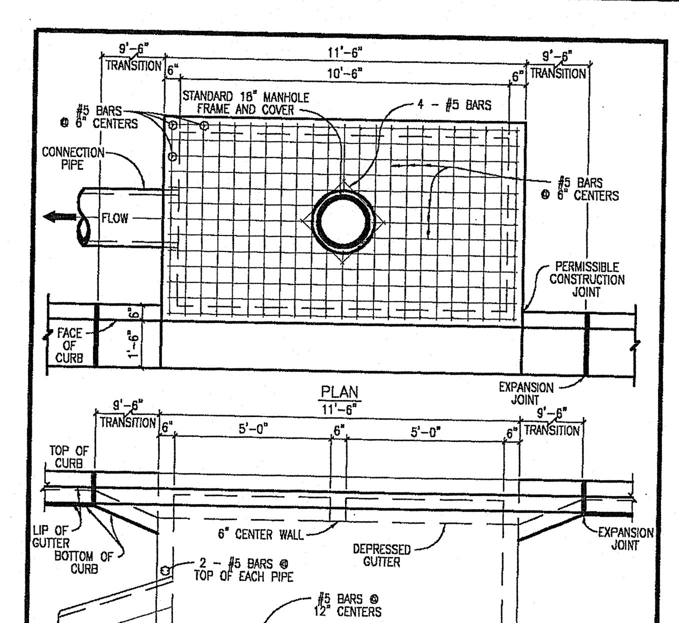


TYPICAL HANDICAP PARKING LAYOUT



ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. #SD-11 — SD11.DWG
STANDARD STORM SEWER MANHOLE FRAME (24")
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

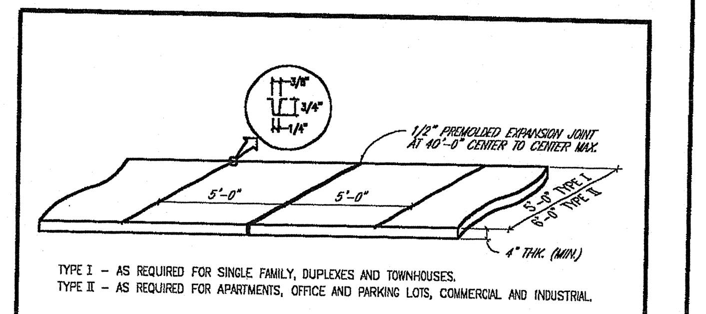


NOTES:

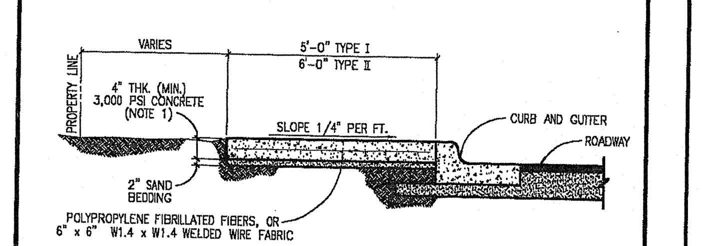
1. ALL CONCRETE SHALL BE MINIMUM 5 SACK CONCRETE WITH A 28 DAY COMPRESSIVE STRENGTH OF 3,000 P.S.I. MINIMUM.
2. STORM SEWER PIPE MATERIAL TO BE R.C.P. (CLASS III) AND H.D.P.E. PIPE (A.D.S. (N-12) OR HANCOR (SURE-LOK)), AS DIRECTED BY THE ENGINEER.

ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. #SD-08 — SD08.DWG
CURB INLET DETAIL
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS



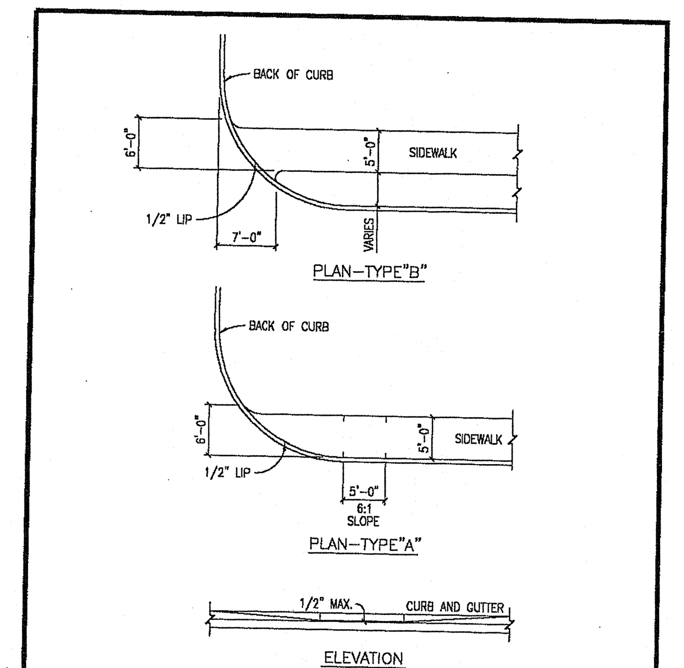
TYPE I – AS REQUIRED FOR SINGLE FAMILY, DUPLEXES AND TOWNHOUSES.
TYPE II – AS REQUIRED FOR APARTMENTS, OFFICE AND PARKING LOTS, COMMERCIAL AND INDUSTRIAL.



1. FOR ROLLER STAMPED SIDEWALK: 4000 P.S.I. CONCRETE WITH 3/8" AGGREGATE.
2. STANDARD LOCATION OF SIDEWALK IS OFF BACK OF CURB. SPECIAL DESIGNS MAY BE APPROVED BY THE CITY ENGINEER, PRIOR TO FINAL DESIGN.

ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. #SD-12 — SD12.DWG
SIDEWALK SECTION AND JOINT DETAIL
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS



NOTE:
1. SIDEWALK LOCATION TO BE APPROVED BY CITY ENGINEER PRIOR TO FINAL DESIGN.

ISSUE DATE: APRIL 2001 | REVISIONS | DATE | APPROVED | DRAWN | SCALE: N.T.S.

CITY OF GEORGETOWN — DWG. #SD-13 — SD13.DWG
SIDEWALK RAMP DETAILS
GEORGETOWN UTILITY SYSTEMS
CONSTRUCTION STANDARDS AND DETAILS

REVISIONS:

STATE OF TEXAS — STEVEN KEITH WENZEL — 59082 — REGISTERED PROFESSIONAL ENGINEER — 10/2/02

DESIGN BY: SKW
DRAWN BY: JB
CHECK BY: SKW

Wenzel Engineering Inc.
7005 KENOSHA PASS
Austin, Texas 78749
512 - 301-7480

ROGER BEASLEY VOLVO
GEORGETOWN
STANDARD DETAIL SHEET

JOB NUMBER:
NAME:
DATE: 02 OCT 2002
PAGE NUMBER:
9of9

ZONING

C2A

UTILITY DEMAND

FIRE FLOW:	1,500 GPM	
DOMESTIC WATER:	11,000 GPD	
WASTE WATER:	5,000 GPD	
ELECTRIC:	1,325 AMP	480/277 VOLT 3 PHASE 4 WIRE

SITE INFORMATION

SITE AREA	5.45 ACRES (237,561 SQ. FT.)
IMPERVIOUS AREA ALLOWED	166,293 SQ. FT. (70%)
PERVIOUS AREA PROPOSED	78,755 SQ. FT. (33.1%)
IMPERVIOUS COVER BY BUILDINGS	27,688 SQ. FT. (11.7%)
IMPERVIOUS COVER BY DRIVES, PARKING & SIDEWALKS	131,134 SQ. FT. (55.2%)
TOTAL IMPERVIOUS PROPOSED	158,827 SQ. FT. (66.9%)

BUILDING INFORMATION

SHOWROOM/SERVICE/PARTS

BUILDING AREA:	23,717 SQ. FT.
BUILDING USE:	OFFICE/ SHOWROOM/ WAREHOUSE
BUILDING HEIGHT:	34'-6"

PARKING TABULATION

PARKING REQUIREMENTS:

OFFICE: 1 SPACE PER 200 SQ. FT.
WAREHOUSE: 1 SPACE PER 1,000 SQ. FT.

EMPLOYEE/CUSTOMER PARKING	52 SPACES
INVENTORY SPACES	260 SPACES
TOTAL VEHICLE SPACES	312 SPACES

LEGAL DESCRIPTION

LOT 3, BLOCK A KELLEY TRUST PHASES ONE, TWO AND THREE A SUBDIVISION OF RECORD IN CABINET "S", SLIDES 334-341 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS

DDP NOTES

1. FEMA FLOOD PLAIN: ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48441 DATED SEPTEMBER 27, 1991, NO PORTION OF THIS PROJECT IS LOCATED WITHIN THE 100 YEAR FLOODPLAIN.
2. ELECTRIC SERVICE: DUAL SERVICE PROVIDER AREA, ELECTRIC SERVICE IS PROVIDED BY THE CITY OF GEORGETOWN. REQUIREMENTS SHALL BE COORDINATED THROUGH THE CITY'S ELECTRIC SYSTEM CONSULTANT, DAVID WITTE, McCORD ENGINEERING AT 819-7641-8556 AND DEVELOPMENT PROCESS TEAM MEMBER, DURING DESIGN AND BEFORE CONSTRUCTION.
3. DUMPSTERS: A SEVEN FOOT ENCLOSURE SHALL BE INCLUDED AROUND ALL DUMPSTERS. TYPE OF DUMPSTER SCREENING WILL BE FENCE ENCLOSURE TYPE, CONSISTENT WITH SECTION 6.303 FIGURE 2 OF THE ZONING ORDINANCE.
4. WATER AND WASTE WATER SERVICE: WATER AND WASTE WATER SERVICE REQUIRED TO ALL PROPOSED PUBLIC BUILDINGS, AND ARE PROVIDED BY THE CITY OF GEORGETOWN.
5. IRRIGATION: IRRIGATION TO BE PROVIDED TO LANDSCAPED AREAS AS INDICATED ON THE LANDSCAPE PLAN.

SITE PLAN NOTES

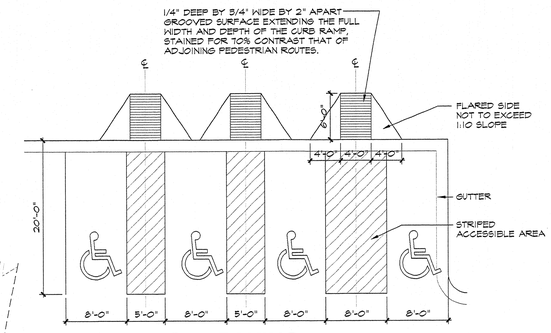
1. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION OF EXISTING WASTE WATER SERVICE.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL CURBS ARE SPILL CURBS UNLESS OTHERWISE NOTED.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY ALL UNDERGROUND UTILITIES.
5. ANY RELOCATION OF THE EXISTING GEORGETOWN UNDERGROUND ELECTRICAL LINE LOCATED WITHIN THE 15' P.U.E. NORTH OF THE T.P.L. TRANSMISSION R.O.W. WILL BE AT THE DEVELOPER'S EXPENSE.

SIGNAGE NOTES & CALCULATIONS (SIGNS AND BASES BY OWNERS SIGN CONSULTANT)

1. MAXIMUM AREA OF A POLE SIGN SHALL BE 225 SQ. FT. PER FACE WITH A MAXIMUM OF TWO FACES. PROPERTIES WITH IH-35 FRONTAGE MAY HAVE ONE POLE SIGN FOR EACH 600 FEET OF FRONTAGE AND SHALL BE SPACED A MINIMUM OF 100 FEET APART. HEIGHT LIMIT SHALL BE A MAXIMUM OF 28 FEET
2. BUILDING SIGNAGE NOT TO EXCEED CITY OF GEORGETOWN REGULATIONS OF ONE (1) SQUARE FOOT OF WALL SIGNAGE PERMITTED FOR EACH LINEAR FOOT OF THE PRIMARY FACADE OF THE BUILDING, EXCLUDING KING WALLS.
3. MAXIMUM BUILDING SIGNAGE ALLOWABLE (1 SQ.FT./ 1 LINEAR FT.) ---- 170 SQ. FT.
4. PROPOSED SITE SIGNAGE:
   A. PYLON SIGN NOT TO EXCEED 28 FEET HIGH AND LIMITED TO 225 SQUARE FEET MAXIMUM. SIGN MUST BE LOCATED WITHIN 50' OF IH-35.
   B. MONUMENT SIGN NOT TO EXCEED 8' IN HEIGHT AND LIMITED TO 64 SQUARE FEET MAXIMUM. SIGN MUST BE LOCATED BEYOND 50' OF IH-35.
   C. MONUMENT SIGN NOT TO EXCEED 8' IN HEIGHT AND LIMITED TO 48 SQUARE FEET MAXIMUM.

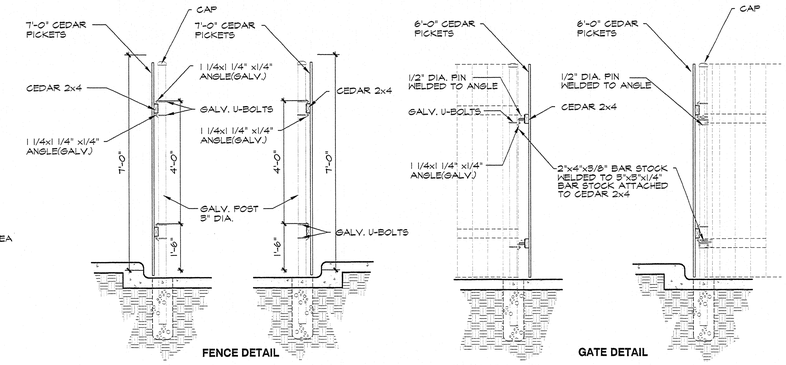
GENERAL ABBREVIATIONS

ABBREVIATION	DEFINITION
A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINUM
BLK'G	BLOCKING
B.O.S.	BOTTOM OF STEEL
BUS.	BUSINESS
℄	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CONV.	CONVENIENCE
DIA.	DIAMETER
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELEV.	ELEVATOR
E.O.S.	EDGE OF SLAB
EQUIP.	EQUIPMENT
EXT.	EXTERIOR
F.G.	FINISH GRADE
FIN.	FINISH
F.O.M.	FACE OF MASONRY
GA.	GAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GYP.	GYPSUM BOARD
HR	HOUR
INT.	INTERIOR
MAX.	MAXIMUM
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O/C	ON CENTER
O.F.	OVERFLOW DRAIN
P.E.B.	PRE-ENGINEERED BUILDING
P.T.	PRESSURE TREATED
R	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
S.S.	STAINLESS STEEL
SQ. FT.	SQUARE FEET
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CONCRETE
T.O.M.L.	TOP OF MASONRY LVG
T.O.S.	TOP OF STEEL
T.O.P.	TOP OF PARAPET
T.S.	TUBE STEEL
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORY
USG	UNITED STATE GYPSUM
O.H.	OVER HANG



HANDICAP PAKING

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



DUMPSTER ENCLOSURE

SCALE: N.T.S.

4" HIGH WHITE STENCELED LETTER (REPEAT WORDING EVERY 15'-0")

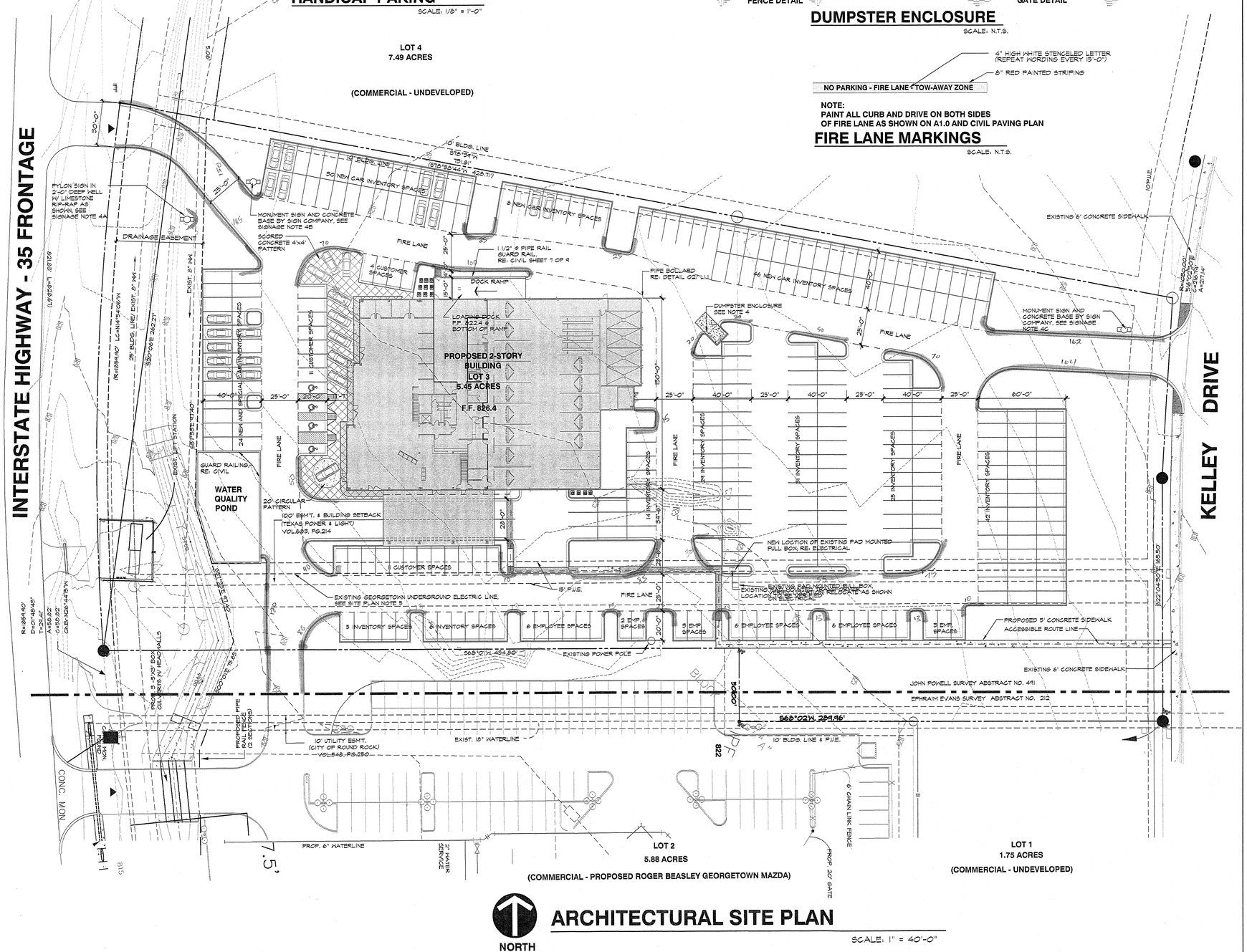
8" RED PAINTED STRIPING

NO PARKING - FIRE LANE - TOW-AWAY ZONE

NOTE:
PAINT ALL CURB AND DRIVE ON BOTH SIDES OF FIRE LANE AS SHOWN ON A1.0 AND CIVIL PAVING PLAN

FIRE LANE MARKINGS

SCALE: N.T.S.



ARCHITECTURAL SITE PLAN

SCALE: 1" = 40'-0"

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

EL-SASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 693 GEORGETOWN, TX 78627
(512) 930-3383 FAX (512) 930-3018 www.ae-k.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT
09/18/02

DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO.

A1.0

LANDSCAPE NOTES

1. A CONVENTIONAL AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED TO ALL LANDSCAPED AREAS.
2. IRRIGATION SYSTEM SHALL BE DESIGNED BY IRRIGATION CONTRACTOR AND PROVIDE CITY WITH SHOP DRAWING LAYOUT.
3. IRRIGATION SYSTEM SHALL HAVE RAIN AND FREEZE SENSORS BUILT INTO SYSTEM.
4. MAINTENANCE. THE CURRENT OWNER AND SUBSEQUENT OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS. SAID AREAS SHALL BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL. IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE CITY OF GEORGETOWN ZONING ORDINANCE.
5. IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SLEEVES UNDER PAVING, CURB & GUTTER AND SIDEWALKS AS REQUIRED FOR IRRIGATION SYSTEM. COORDINATE WITH CONCRETE CONTRACTOR PRIOR TO PLACMENT OF CONCRETE.

LANDSCAPE DATA

BUFFER TYPE (WIDTH) NORTH, EAST AND WEST	"A" (10'-0")
BUFFER TYPE (WIDTH) SOUTH	"A" (15'-0")
BUFFER REQUIREMENTS (NORTH, EAST, WEST)	1 DECIDUOUS SHRUB PER 100'
BUFFER REQUIREMENTS (SOUTH)	2 DECIDUOUS SHRUBS & 1 EVERGREEN PER 100'
REQUIRED LANDSCAPE AREA (15% OF IMPERVIOUS)	23,863 SQ. FT.
REQUIRED LANDSCAPE AREA AFTER EXISTING CANOPY CREDIT	0 SQ. FT.
PARKING LOT TREE REQUIREMENT (1 TREE / 64' OF PARKING SPACE)	55 TREES
PARKING LOT LANDSCAPE REQUIRED (15 SQ. FT. PER SPACE)	4,198 SQ. FT. OR 7 TREES
PARKING LOT SCREEN REQUIRED (6' MIN. OFFSET/ 60' SCREEN)	SHRUBS PROVIDED

BUFFER YARD DATA	TYPE	REQUIRED	PROVIDED
NORTH BUFFER YARD	A	6 SHRUBS	17
SOUTH BUFFER YARD	A	16 SHRUBS	24
		8 EVERGREENS	17

LANDSCAPE CALCULATIONS

IMPERVIOUS COVER 154,084 SQ. FT X 15 % = 23,863 SQ. FT.- 0 TREE CREDIT\600 = 39.77 UNITS X 2 TREES = 80 TREES, AND 39.77 UNITS X 4 SHRUBS = 154 SHRUBS 154 SHRUBS AND 80 TREES\50% = 80 SHRUBS AND 40 TREES LOCATED IN FRONT OF THE BUILDING

PARKING LOT LANDSCAPE CALCULATIONS

25% OF PARKING BETWEEN BUILDING AND STREET = 15 SQ. FT. X 323 PARKING STALLS = 4,198 SQ. FT. X 4 SHRUBS AND 2 TREES TO BE PLANTED IN THE PARKING AREA. A TREE MUST BE PLACED WITHIN 64 FEET OF ALL PARKING SPACES. THIS MAY REQUIRE ADDITIONAL PLANTINGS IN SOME CASES.

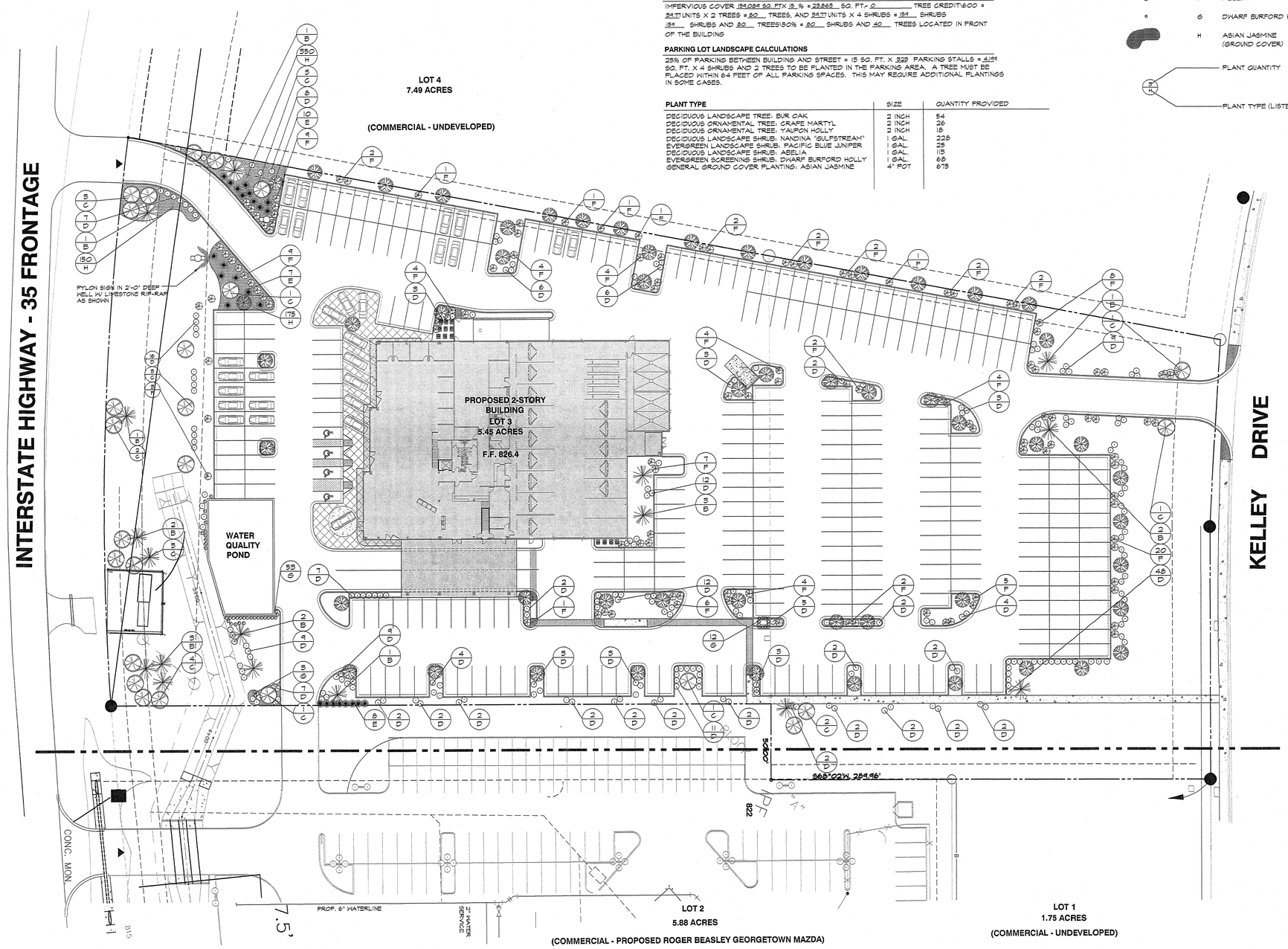
PLANT TYPE	SIZE	QUANTITY PROVIDED
DECIDUOUS LANDSCAPE TREE: BUR OAK	2 INCH	54
DECIDUOUS ORNAMENTAL TREE: CRAPE MARTYL	2 INCH	26
DECIDUOUS ORNAMENTAL TREE: YAUPON HOLLY	2 INCH	18
DECIDUOUS LANDSCAPE SHRUB: NANDINA "GULFSTREAM"	1 GAL.	228
EVERGREEN LANDSCAPE SHRUB: PACIFIC BLUE JUNIPER	1 GAL.	29
DECIDUOUS LANDSCAPE SHRUB: ABELIA	1 GAL.	115
EVERGREEN SCREENING SHRUB: DWARF BURFORD HOLLY	1 GAL.	68
GENERAL GROUND COVER PLANTING: ASIAN JASMINE	4" POT	615

PLANT LIST

PLANT SYMBOL	TYPE	PLANT DESCRIPTION
	A	BUR OAK, 2" CALIPER
	B	YAUPON HOLLY, 2" CALIPER
	C	CRAPE MYRTLE, 2" CALIPER
	D	NANDINA "GULFSTREAM"
	E	PACIFIC BLUE JUNIPER
	F	ABELIA
	G	DWARF BURFORD HOLY
	H	ASIAN JASMINE (GROUND COVER)

PLANT QUANTITY

PLANT TYPE (LISTED ABOVE)



NORTH

LANDSCAPE PLAN

SCALE: 1" = 50'-0"

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 983 GEORGETOWN, TX 78627
(512) 930-3383 FAX (512) 930-2319 www.eai-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT ROBERT L. ELSASSER STATE OF TEXAS

09/18/02

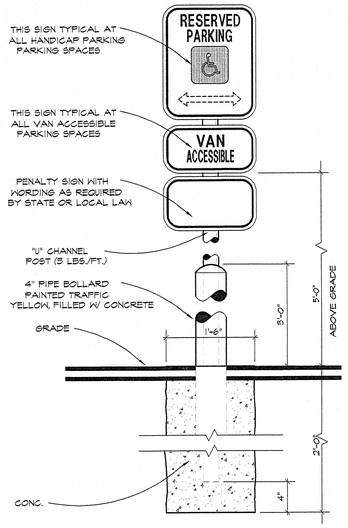
DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO.

L1.0

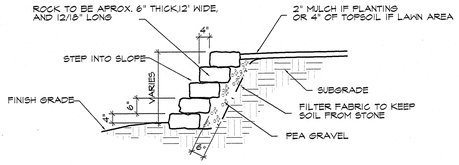


01 L1.1 **HANDICAP PARKING SIGN**

SCALE : N.T.S.

07 L1.1 **NOT USED**

SCALE : N.T.S.



06 L1.1 **TYPICAL DRYSTACK SECTION**

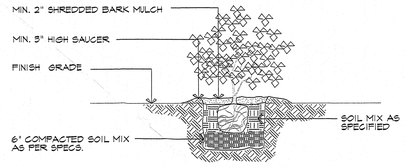
SCALE 1/2"=1'-0"

08 L1.1 **NOT USED**

SCALE 1/2"=1'-0"

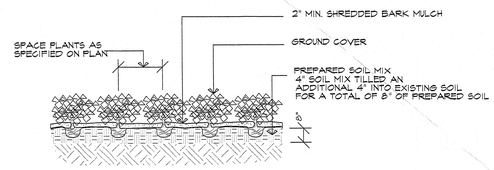
09 L1.1 **NOT USED**

SCALE 1/2"=1'-0"



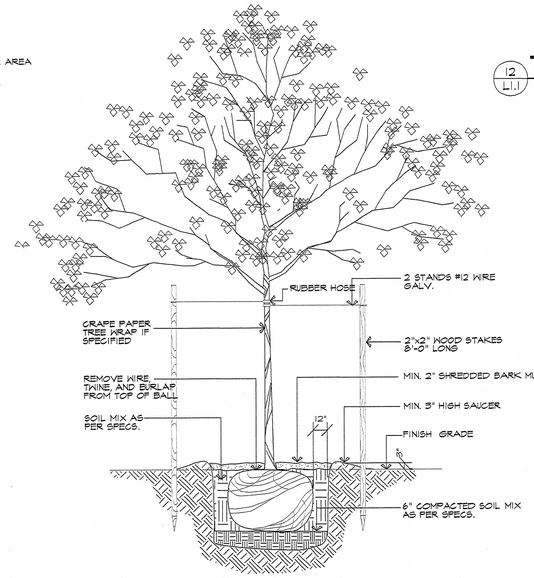
13 L1.1 **TYPICAL SHRUB PLANTING**

NOT TO SCALE



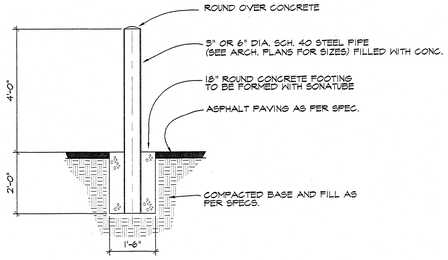
12 L1.1 **TYPICAL GROUND COVER & BED PREPARATION**

NOT TO SCALE



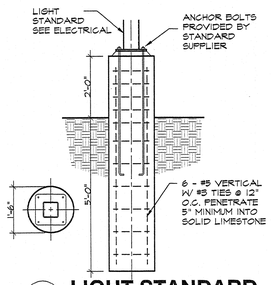
10 L1.1 **TREE PLANTING (3" CAL. & UNDER)**

NOT TO SCALE



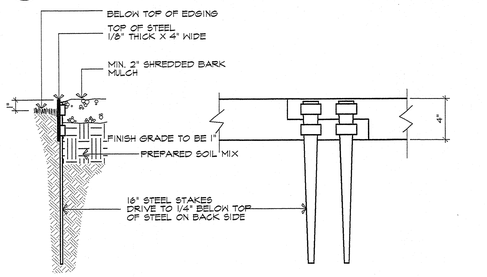
02 L1.1 **BOLLARD DETAIL**

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



05 L1.1 **LIGHT STANDARD**

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



11 L1.1 **RYERSON STEEL EDGE INSTALLATION**

NOT TO SCALE

03 L1.1 **NOT USED**

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

04 L1.1 **NOT USED**

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

GENERAL PLANTING SPECIFICATIONS

1. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND SERVICES REQUIRED FOR THE EXECUTION OF ALL LANDSCAPING AND RELATED WORK AS SHOWN ON THE DRAWINGS AND NOTED HEREIN.

2. APPLICABLE STANDARDS:
A. AMERICAN STANDARD FOR NURSERY STOCK, EDITION APPROVED 1949; AND REVISED APRIL 15, 1956.
B. AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE; 1942 EDITION OF STANDARDIZED PLANT NAMES.

3. GUARANTEE:
A. ALL PLANTS SHALL BE GUARANTEED FOR 12 MONTHS AFTER FINAL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ALL DEAD MATERIALS WITH PLANTS OF THE SAME KIND AND SIZE OF THOSE ORIGINALLY SPECIFIED OR SUBSTITUTIONS AGREED UPON BY OWNER.
B. OWNER AGREES THAT FOR THE GUARANTEE TO BE EFFECTIVE, HE WILL WATER PLANTS DURING DRY PERIODS ON A REGULAR BASIS.
C. THE GUARANTEE SHALL NOT APPLY WHERE PLANTS DIE AFTER ACCEPTANCE DUE TO INJURY BY STORMS, DROWNING, HAIL, FREEZE, INSECTS, DISEASE INJURY BY HUMANS OR MACHINES, OR THEFT.

4. PLANTING SOIL MIX:
PLANTING MIX SHALL BE COMPOSED OF 2 PART TOPSOIL, AND 1 PART SAND, AND 1 PART COMPOST (PEAT MOSS, PINE BARK, MANURE, OR MUSHROOM MULCH) COMMERCIAL MIXED SOIL MIX SUCH AS GARDENEILLE OR APPROVED EQUAL IS ALSO ACCEPTABLE.

5. MULCH:
ALL MUCH FOR TOP DRESSING SHALL BE SHREDDED HARDWOOD, SHREDDED CYPRESS, OR APPROVED EQUAL

6. TOPSOIL FOR LAWN AREAS:
TOPSOIL SHALL CONSIST OF FERTILE, DARK SANDY LOAM FREE OF RUBBLE, STONES, LUMPS, PLANT ROOTS, AND FREE OF WEEDS.

7. STEEL EDGING:
RYERSON "ESTATE", 1/8"X 4"X 20" LENGTH, FACTORY PAINTED DARK GREEN AS MANUFACTURED BY JOSEPH RYERSON CO., INC., HOUSTON, TEXAS (713) 675-6111, OR APPROVED EQUAL.

8. WEED BARRIER:
SHALL BE WARREN'S "TERRABOND" OR APPROVED EQUAL.

9. PLACEMENT OF PLANTING MIX:
EXISTING VEGETATION TO BE STRIPPED BEFORE PLACEMENT OF 4" MIN. SOIL MIX. TILL INTO EXISTING SOIL A MIN. OF 6" DEPTH. OPT TREATMENT OF BEDS WITH EPTAM GRANULES TO BE TILLED IN AT THIS TIME.

10. PLACEMENT OF TOPSOIL FOR LAWNS:
A MIN. OF 4" OF DARK SANDY LOAM SHALL BE SPREAD PRIOR TO PLACEMENT OF SEED OR SOD. SOIL SHALL BE FINE GRADED FREE OF LUMPS, ROCKS, AND DEBRIS. FINISH GRADE TO BE A MIN. OF 1" BELOW TOP OF ALL PAVING AND EDGING. TOPSOIL GRADE TO BE LEFT DOWN TO ALLOW FOR THE THICKNESS OF THE SOD. FINISH GRADE OF SOD TO BE 1" BELOW TOP OF ALL PAVING AND BED EDGING.

11. IRRIGATION SYSTEM:(PLAN PROVIDED BY IRRIGATION CONTRACTOR)
IF SPECIFIED THE IRRIGATION SYSTEM TO BE A COMPLETE AUTOMATIC SYSTEM. GRASS AREAS TO BE CONVENTIONAL AND BED AREAS TO BE DRIP IRRIGATION. SOME OF THE MORE NATIVE AREAS OF THIS YARD WILL HAVE TO BE CONVENTIONAL POP-UP ROTARY

12. SOD PLACEMENT:
SOD TO HAVE TIGHTLY BUTTED JOINTS AND FOLLOW CONTOUR OF SLOPE. SLOPES EXCEEDING 3:1 SLOPE SOD SHALL BE STAKED WITH WOODEN PEGS. SOD TO BE ROLLED WITH A ROLLER WEIGHING A MAX. OF 200 LBS. AND THEN WATERED TO A DEPTH OF 4".

13. DISCREPANCIES:
ALL DISCREPANCIES IN QUANTITIES SHALL BE RESOLVED BY THE CONTRACTOR BEFORE THE START OF INSTALLATION. CONTRACTOR SHALL CHECK MATERIAL QUANTITIES TO INSURE A FINISHED INSTALLATION. IF A MATERIAL LIST IS FURNISHED IT IS TO BE USED AS A GUIDE ONLY. IF THERE IS A DISCREPANCY BETWEEN PLANT MATERIAL LIST AND THE PLANS, THE PLANS WILL RULE.

14. PRUNING AND CLEANING:
EXISTING PLANTINGS TO BE PRUNED AND SHAPED TO RESTORE A FINISHED LOOK. CARE SHALL BE TAKEN TO ONLY ELIMINATE DEADWOOD, GRASS, AND WEEDS IN BED AREAS. CARE SHALL BE TAKEN TO PRESERVE HEALTHY EXISTING VEGETATION. SOME PLANT MATERIAL IS TO BE TRANSPLANTED AS PER PLAN . IT IS UNDERSTOOD THAT ANY OWNERS MATERIAL TRANSPLANTED DOES NOT FALL UNDER THE CONTRACTORS GUARANTEE.

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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ARCHITECTURE AND PLANNING
P.O. BOX 833 GEORGETOWN, TX 78627
(512) 930-0333 FAX (512) 930-3219 www.elsasser.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/18/02

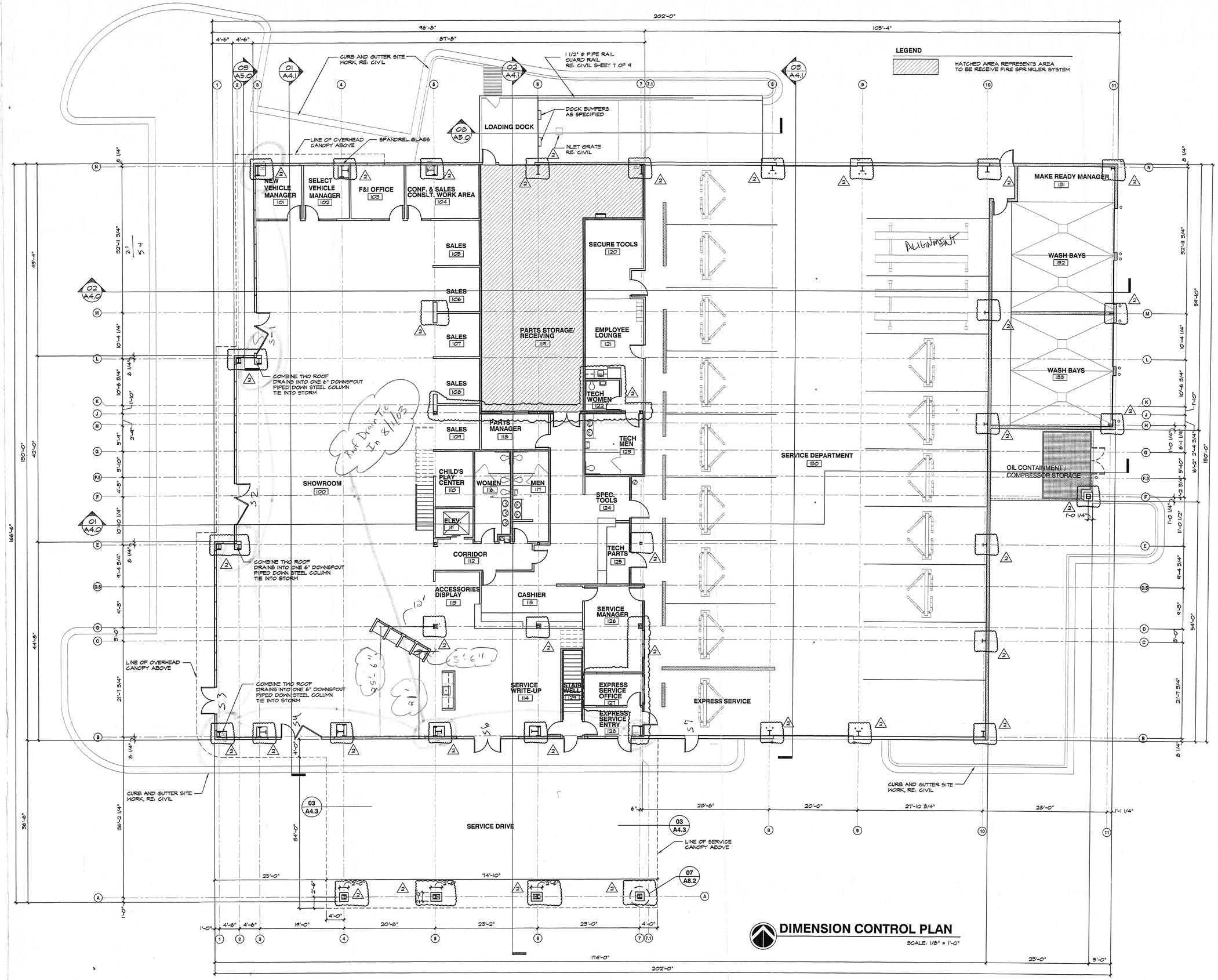
DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO.

L1.1



DIMENSION CONTROL PLAN

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

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(512) 930-3383 FAX (512) 930-3319 www.elsasser-tx.com

REV. #	DESCRIPTION	DATE
2	REVISED COLUMN SIZES AND LOCATIONS RELOCATED CORRESPONDING WALLS AND WINDOWS	04/16/03

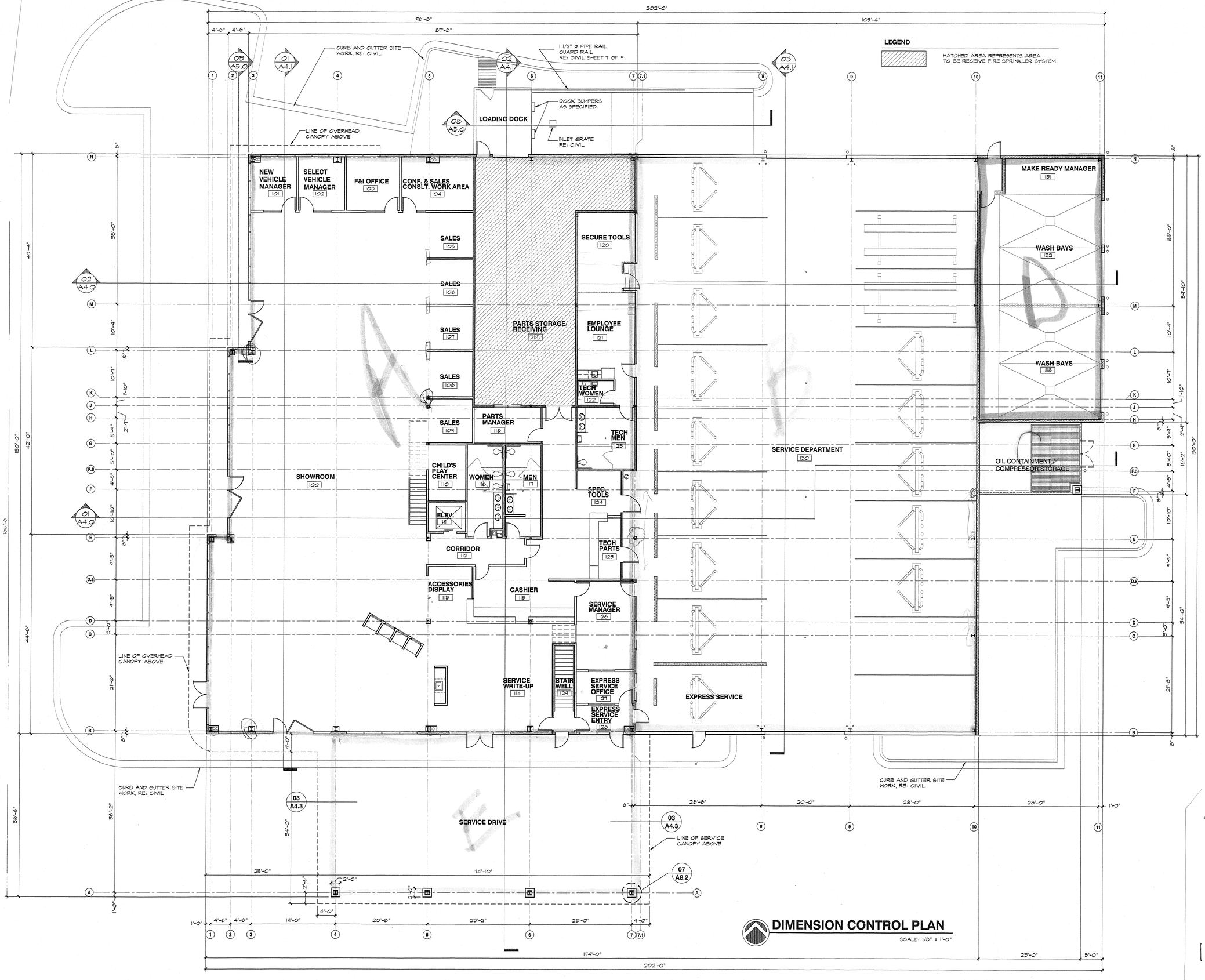
REGISTERED ARCHITECT RICHARD L. ELSASSER 2933 STATE OF TEXAS
04/17/03

DATE: 09/18/02

PROJECT NO. 02008

SHEET NO.

A2.0



DIMENSION CONTROL PLAN

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

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT INFORMATION:

REGISTERED ARCHITECT

SEE REVISED

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

AIA DOCUMENT G710 - ELECTRONIC FORMAT

OWNER	X
ARCHITECT	X
CONSULTANT	
CONTRACTOR	X
FIELD	X
OTHER	

THIS DOCUMENT HAS IMPORTANT LEGAL CONSEQUENCES; CONSULTATION WITH AN ATTORNEY IS ENCOURAGED WITH RESPECT TO ITS COMPLETION OR MODIFICATION. AUTHENTICATION OF THIS ELECTRONICALLY DRAFTED AIA DOCUMENT MAY BE MADE BY USING AIA DOCUMENT Data.

PROJECT: Roger Beasley Volvo, IH35 S. Georgetown
(Name, address)

OWNER: Roger Beasley Volvo

TO: FTWoods Construction
(Contractor)

CONTRACT FOR: General Construction

CONTRACT DATED: May 23, 2002

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO: 01

ARCHITECT: Elsasser Architectural, Inc.

ARCHITECT'S PROJECT NO: 02008

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

Description:

Item #1: Relocate metal stud framing at Hi-Lo water cooler in the showroom between the Mens and Womens restrooms, as indicated on the enclosed partial plan sheet titled HI/LO WATER COOLER and dated 08/25/03.

Item #2: Relocate door into Tech Mens Restroom to accommodate column base plate. Also relocate the wall containing the door into Tech. Womens Restroom to provide the required 1'-0" clear floor space to the push side of the strike jamb of the door into Tech Mens Restroom. The break room counter shall be reduced to 4'-10" in length. See enclosed partial plan sheet titled TECH. WOMENS RESTROOM dated 08/25/03.

Attachments:
(Here insert listing of documents that support description.)

Partial Plan Sheets:
HI/LO WATER COOLER - dated 08/25/03
TECH. WOMENS RESTROOM - dated 08/25/03

ISSUED BY:

Richard Elsasser 08/27/03
Architect

REGISTERED ARCHITECT RICHARD L. ELSASSER 5998 STATE OF TEXAS
8/27/03

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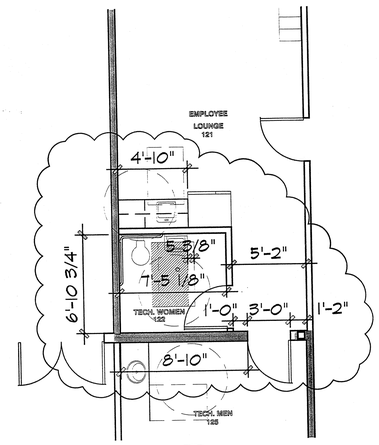

REGISTERED ARCHITECT RICHARD L. ELSASSER 5998 STATE OF TEXAS
8/27/03

08/25/03
TECH. WOMENS RESTROOM
SCALE 1/4" = 1'-0"

ELSASSER ARCHITECTURAL INC.
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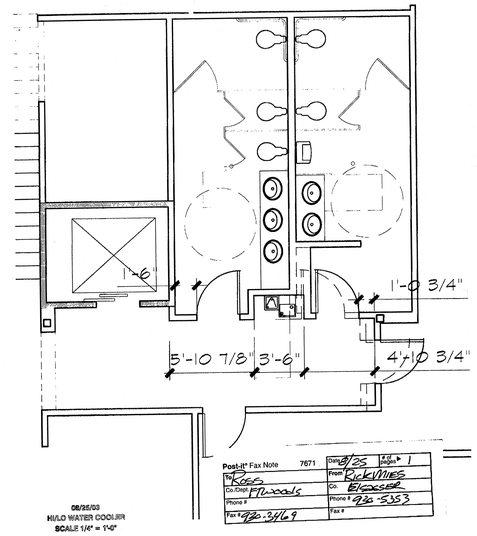
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS



Post-it® Fax Note 7671	Date 8/25 # of pages ▶ 1
To Roger	From Rick Miles
Co./Dept. FTWoods	Co. Elsasser
Phone #	Phone # 930-5353
Fax # 930-3469	Fax #

08/25/03
HI/LO WATER COOLER
SCALE 1/4" = 1'-0"

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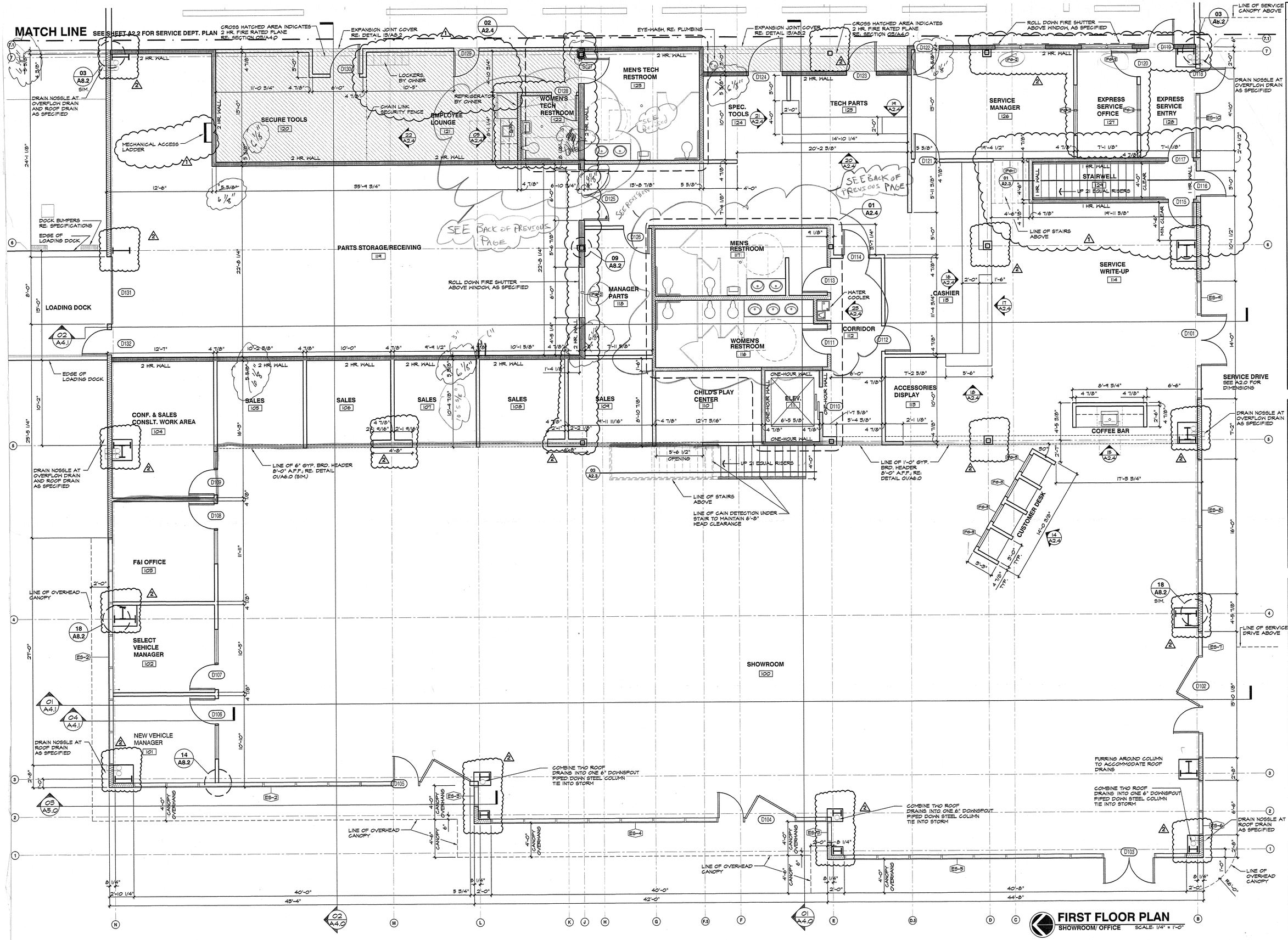
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS



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GEORGETOWN, TEXAS

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(512) 930-3383 FAX (512) 930-2818 www.eaix.com

REV. #	DESCRIPTION	DATE
1	ADJUSTED STAIR WELL TO MEET A.D.A. COMMENTS, RELOCATED DOOR D124, ADDED MECHANICAL ACCESS LADDER	11/18/02
2	REVISED COLUMN SIZES AND LOCATIONS, RELOCATED CORRESPONDING WALLS AND WINDOWS	04/16/03

REGISTERED ARCHITECT
04/17/03

DATE: 09/18/02

PROJECT NO. 02008

SHEET NO.

A2.1

MATCH LINE SEE SHEET A2.2 FOR SERVICE DEPT. PLAN

SECURE TOOLS 120
EMPLOYEE LOUNGE 121
WOMEN'S TECH RESTROOM 122
MEN'S TECH RESTROOM 123
SPEC. TOOLS 124
TECH PARTS 125
SERVICE MANAGER 126
EXPRESS SERVICE OFFICE 127
EXPRESS SERVICE ENTRY 128
STAIRWELL 129
PARTS STORAGE/RECEIVING 114
LOADING DOCK
MANAGER PARTS 118
MEN'S RESTROOM 117
WOMEN'S RESTROOM 116
CORRIDOR 112
CASHIER 119
SERVICE WRITE-UP 114
CONF. & SALES CONSLT. WORK AREA 104
SALES 105
SALES 106
SALES 107
SALES 108
SALES 109
CHILD'S PLAY CENTER 110
ELEV. 111
ACCESSORIES DISPLAY 115
COFFEE BAR
CUSTOMER DESK
F&I OFFICE 103
SELECT VEHICLE MANAGER 102
NEW VEHICLE MANAGER 101
SHOWROOM 100

SERVICE DRIVE SEE A2.0 FOR DIMENSIONS

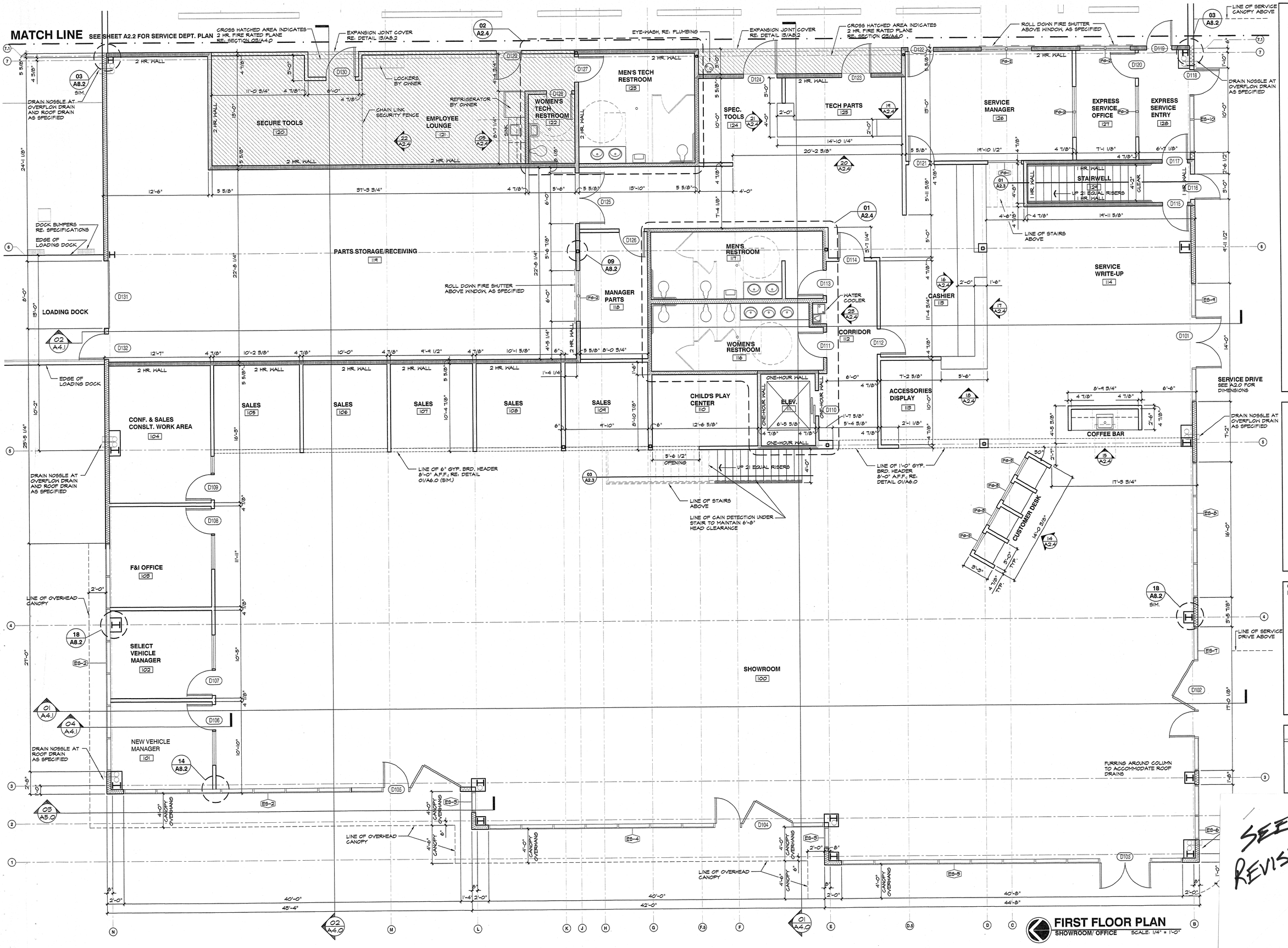
FIRST FLOOR PLAN
SHOWROOM/ OFFICE SCALE: 1/4" = 1'-0"

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 853 GEORGETOWN, TX 78627
(512)863-5000 FAX (512) 863-5001 www.elsa-tx.com

REV. #	DESCRIPTION	DATE
1	ADJUSTED STAIR WELL TO MEET A.D.A. COMMENTS, RELOCATED DOOR D124	11/15/02

SEE REVISED



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INTERSTATE HIGHWAY 35 SOUTH
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CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
8/19/02

SEE REVISED

MAKE READY MANAGER
151

WASH BAYS
152

WASH BAYS
153

CMU WALL 12'-0" A.F.F.

WASH BAY FLOOR SLOPED TO DRAIN, RE: STRUCTURAL

CHAIN LINK GATE

OIL CONTAINMENT

HEAVY STEEL GRATE AS SPECIFIED

AIR COMPRESSOR STORAGE

9' CHAIN LINK FENCE ENCLOSURE

CURB AND GUTTER SITE WORK, RE: CIVIL

VEHICLE LIFTS BY OWNER (TYP.)

3" CONCRETE FILED PIPE BOLLARD

6" CONCRETE FILED PIPE BOLLARD

3" FLOOR DRAIN REFER TO PLUMBING SHEETS

SERVICE DEPARTMENT
150

BEGIN SLOPE TO TRUCK RAMP

PAINTED SERVICE BAY STRIPING

EXPRESS SERVICE
1

SLOPED TRUCK RAMP TO LOADING DOCK RE: DETAIL 01/A4.5

CMU WALL 4'-0" A.F.F.

CROSS HATCHED AREA INDICATES 2 HR. FIRE RATED PLANE

EXPANSION JOINT COVER RE: DETAIL 15/A8.2

2 HR. WALL

ROLL DOWN FIRE SHUTTER ABOVE WINDOW, AS SPECIFIED

MATCH LINE SEE SHEET A2.1 FOR SHOWROOM PLAN

FIRST FLOOR PLAN

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

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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REV. #	DESCRIPTION	DATE
1	SHORTENED CMU WALL, RELOCATED DOOR D141	11/18/02
2	REVISED COLUMN SIZES AND LOCATIONS RELOCATED CORRESPONDING WALLS AND WINDOWS	04/16/03

REGISTERED ARCHITECT RICHARD C. ELSASSER 4225 STATE OF TEXAS
04/17/03

DATE: 09/18/02

PROJECT NO. 02008

SHEET NO.

A2.2

MAKE READY MANAGER 131

WASH BAYS 132

WASH BAYS 133

CMU WALL 12'-0" A.F.F.

WASH BAY FLOOR SLOPED TO DRAIN, RE: STRUCTURAL

CHAIN LINK GATE

OIL CONTAINMENT

HEAVY STEEL GRATE AS SPECIFIED

9' CHAIN LINK FENCE ENCLOSURE

AIR COMPRESSOR STORAGE

CURB AND GUTTER SITE WORK, RE: CIVIL

VEHICLE LIFTS BY OWNER (TYP.)

3" CONCRETE FILED PIPE BOLLARD

6" CONCRETE FILED PIPE BOLLARD

3" FLOOR DRAIN REFER TO PLUMBING SHEETS

SERVICE DEPARTMENT 150

BEGIN SLOPE TO TRUCK RAMP

PAINTED SERVICE BAY STRIPING

SLOPED TRUCK RAMP TO LOADING DOCK, RE: DETAIL 01/A4.5

EXPRESS SERVICE 1

CMU WALL 4'-0" A.F.F.

CROSS HATCHED AREA INDICATES 2 HR. FIRE RATED PLANE

EXPANSION JOINT COVER RE: DETAIL 15/A5.2

2 HR. WALL

ROLL DOWN FIRE SHUTTER ABOVE WINDOW, AS SPECIFIED

MATCH LINE SEE SHEET A2.1 FOR SHOWROOM PLAN

FIRST FLOOR PLAN

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

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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REV. #	DESCRIPTION	DATE
1	SHORTENED CMU WALL, RELOCATED DOOR D141	11/18/02

SEE REVISED

MAKE READY MANAGER
151

WASH BAYS
152

WASH BAYS
153

CMU WALL 12'-0" A.F.F.

WASH BAY FLOOR SLOPED TO DRAIN, RE: STRUCTURAL

CHAIN LINK GATE

OIL CONTAINMENT
HEAVY STEEL GRATE AS SPECIFIED

9' CHAIN LINK FENCE ENCLOSURE

AIR COMPRESSOR STORAGE

CURB AND GUTTER SITE WORK, RE: CIVIL

07 A8.2

16 A8.2

06 A8.2

05 A4.1

VEHICLE LIFTS BY OWNER (TYP.)

3" CONCRETE FILED PIPE BOLLARD

6" CONCRETE FILED PIPE BOLLARD

3" FLOOR DRAIN REFER TO PLUMBING SHEETS

SERVICE DEPARTMENT
150

BEGIN SLOPE TO TRUCK RAMP

PAINTED SERVICE BAY STRIPING

SLOPED TRUCK RAMP TO LOADING DOCK, RE: DETAIL 01/A4.5

EXPRESS SERVICE

CMU WALL 4'-0" A.F.F.

CROSS HATCHED AREA INDICATES 2 HR. FIRE RATED PLANE

EXPANSION JOINT COVER RE: DETAIL 15/A8.2

ROLL DOWN FIRE SHUTTER ABOVE WINDOW, AS SPECIFIED

2 HR. WALL

MATCH LINE SEE SHEET A2.1 FOR SHOWROOM PLAN

02 A4.0

01 A4.0

FIRST FLOOR PLAN

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

AN AUTOMOTIVE DEALERSHIP

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INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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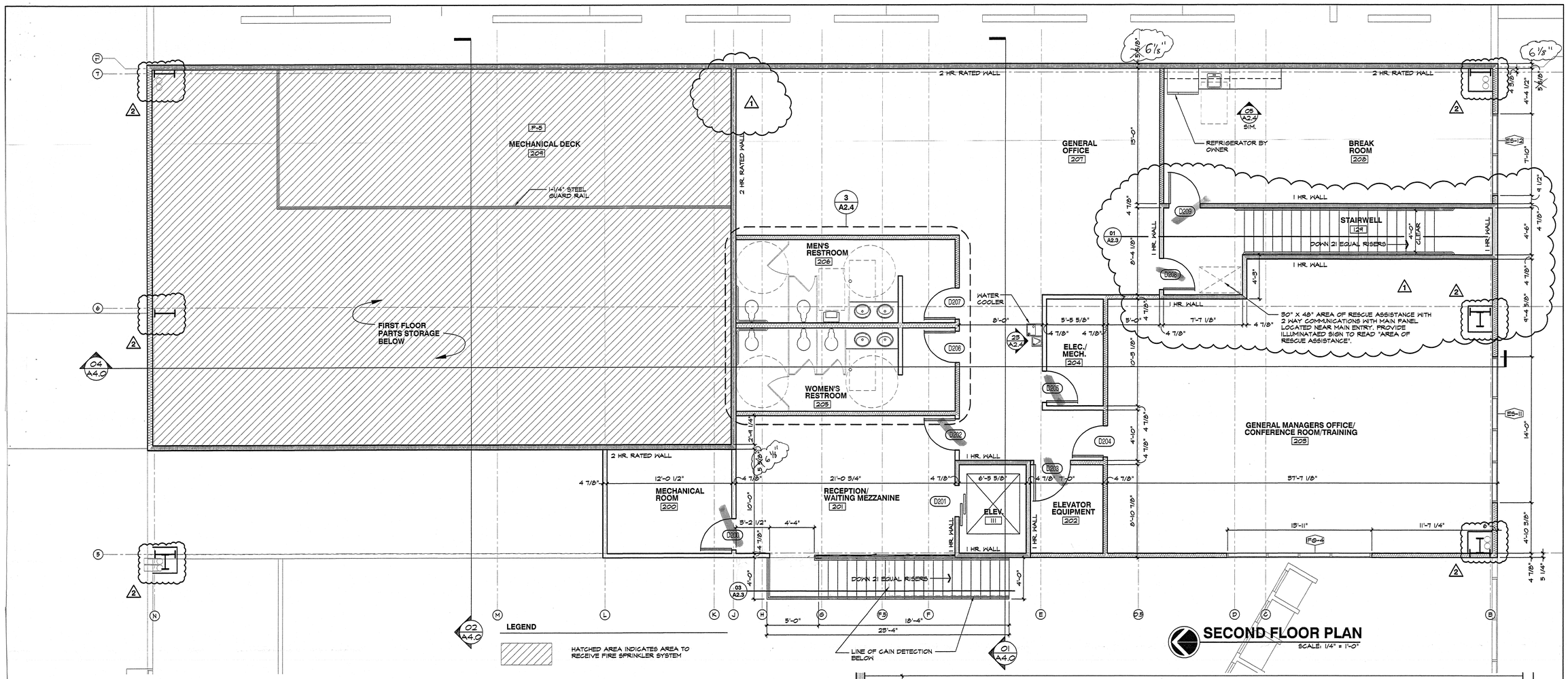
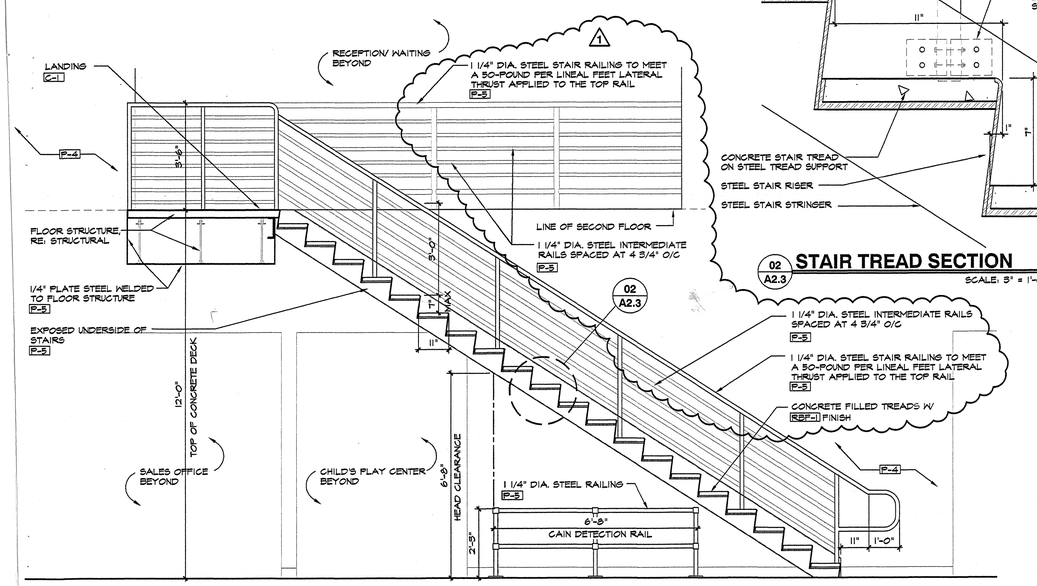
CONSULTANT INFORMATION:

See Revised



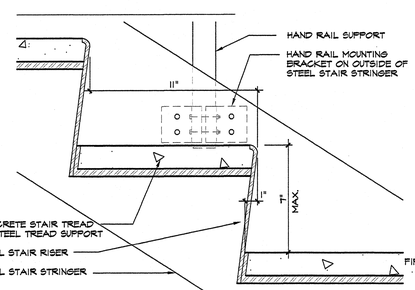
SECOND FLOOR PLAN

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



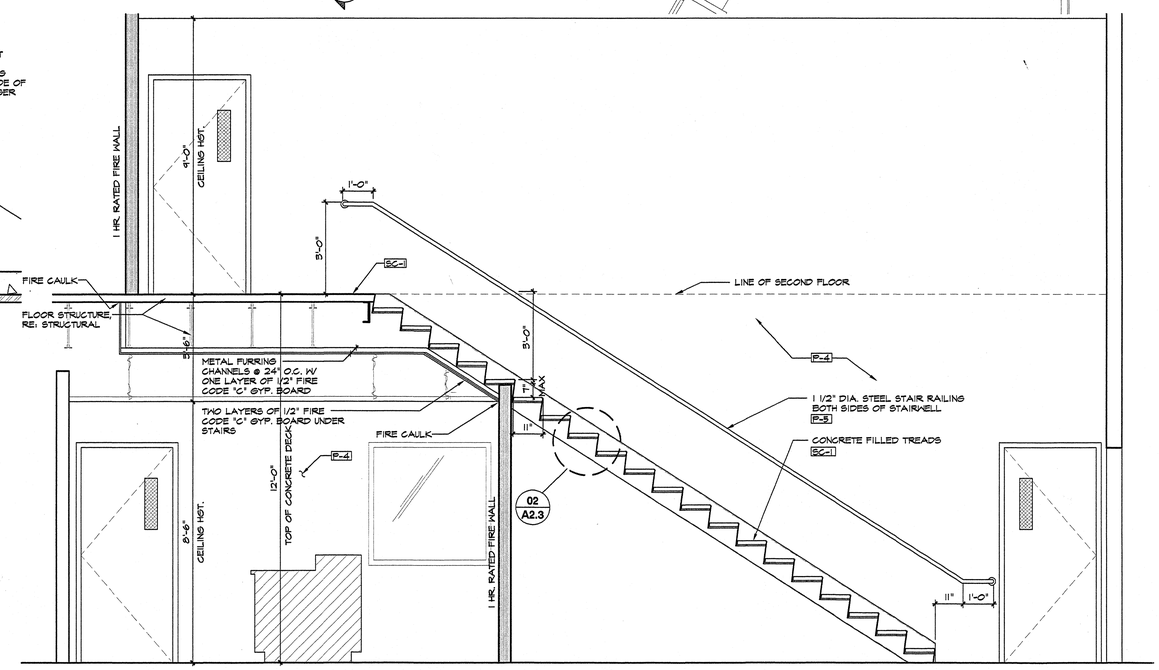
03 A2.3 STAIR SECTION @ SHOWROOM

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



02 A2.3 STAIR TREAD SECTION

SCALE: 3" = 1'-0"



01 A2.3 STAIR SECTION

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

LEGEND:

P-4 — INDICATES FINISH TYPE, REFER TO SHEET A8.3 FOR SPECIFICATIONS

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
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(512) 930-3353 FAX (512) 930-2818 www.ea-tx.com

REV. #	DESCRIPTION	DATE
1	ADJUSTED STAIR RELL TO MEET ADA CONMENTS, REVISED FLOOR PLAN, ADDED NEW NOTES, REVISED AREA OF RESCUE ASSISTANCE NOTE	11/18/02
2	REVISED COLUMN SIZES AND LOCATIONS, RELOCATED CORRESPONDING WALLS AND WINDOWS	04/16/03

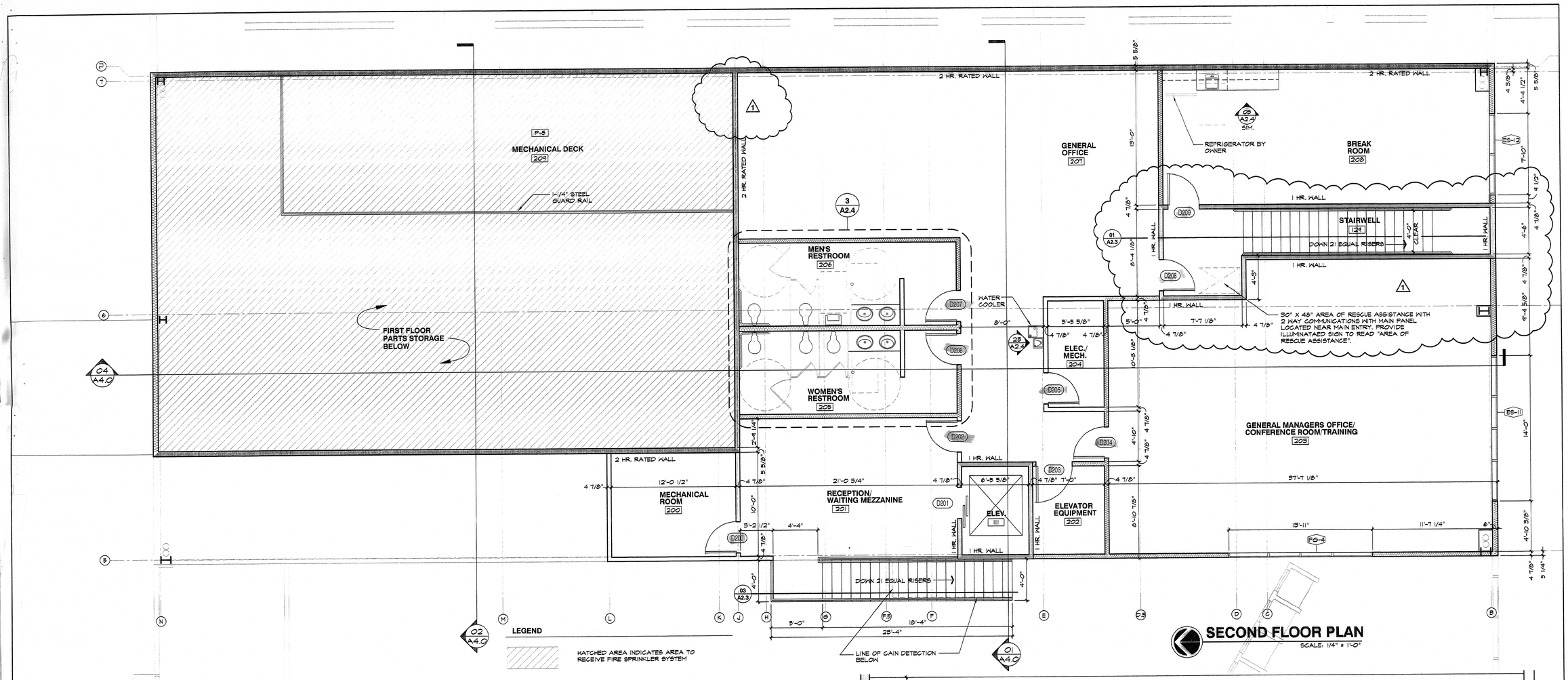
REGISTERED ARCHITECT
STATE OF TEXAS
04/17/03

DATE: 09/18/02

PROJECT NO. 02008

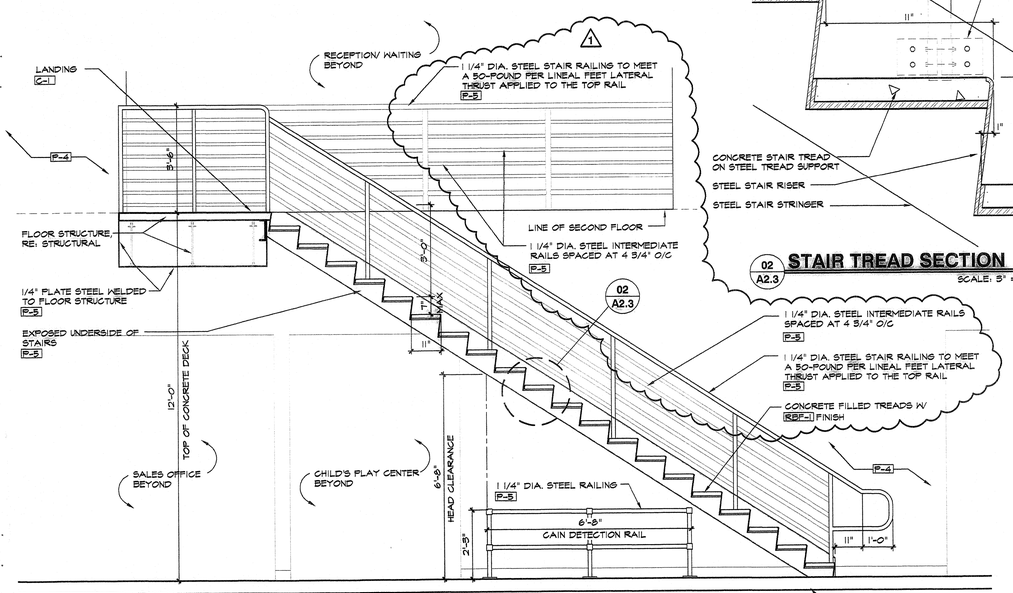
SHEET NO.

A2.3



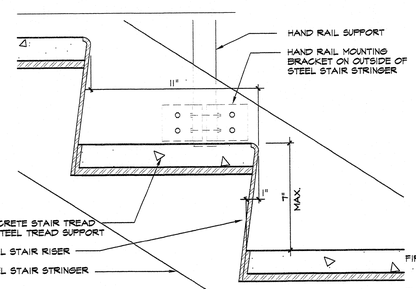
SECOND FLOOR PLAN

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



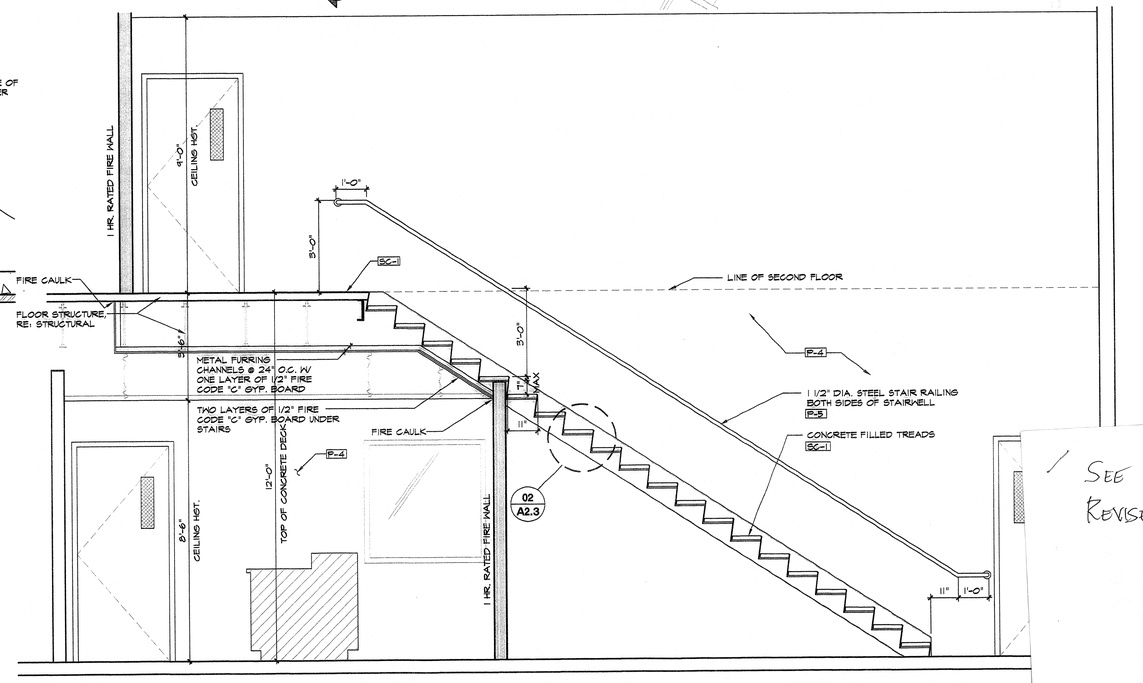
03 A2.3 STAIR SECTION @ SHOWROOM

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



02 A2.3 STAIR TREAD SECTION

SCALE: 3" = 1'-0"



01 A2.3 STAIR SECTION

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

LEGEND:

P-4 — INDICATES FINISH TYPE, REFER TO SHEET A8 SPECIFICATIONS

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

EL-SASSER ARCHITECTURAL INC.
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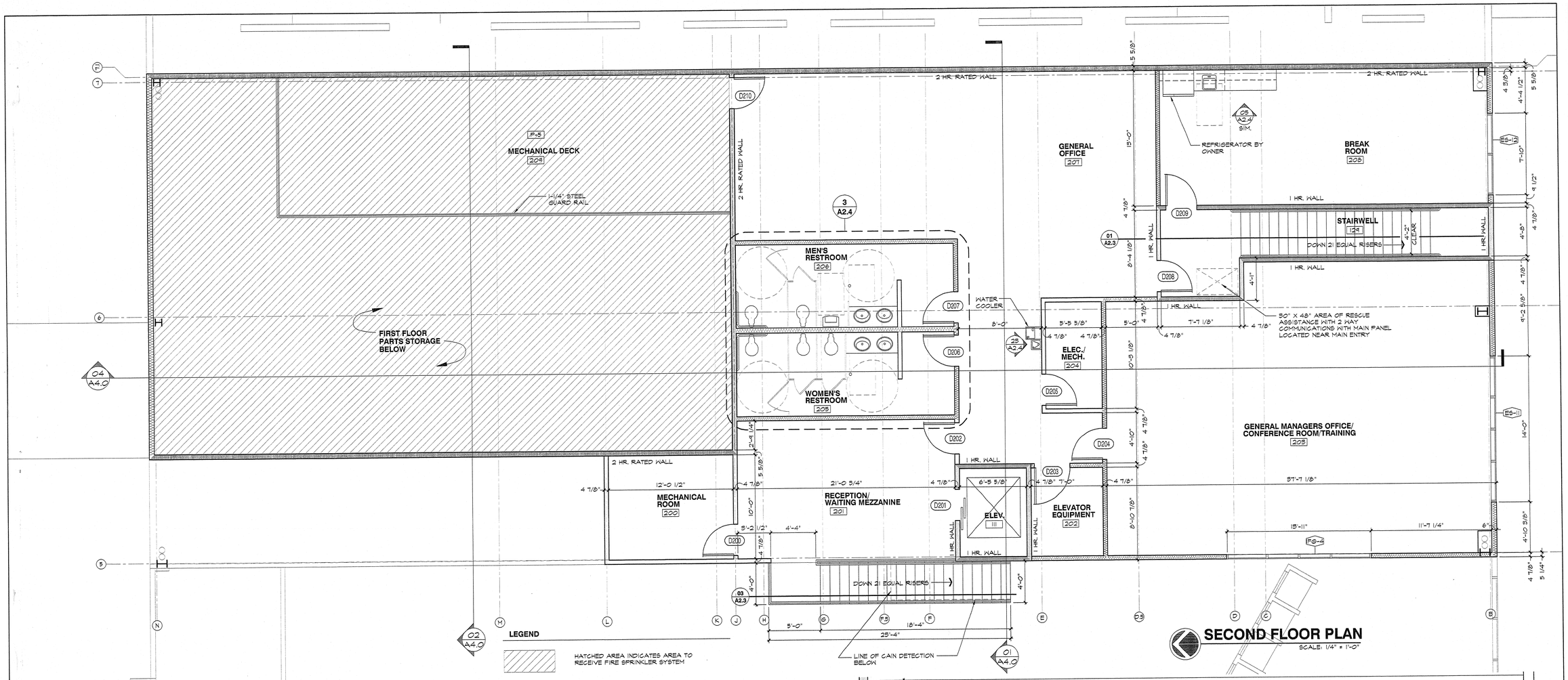
P.O. BOX 1833 GEORGETOWN, TX 78627
(512) 930-3353 FAX (512) 930-3819 www.ras-ai.com

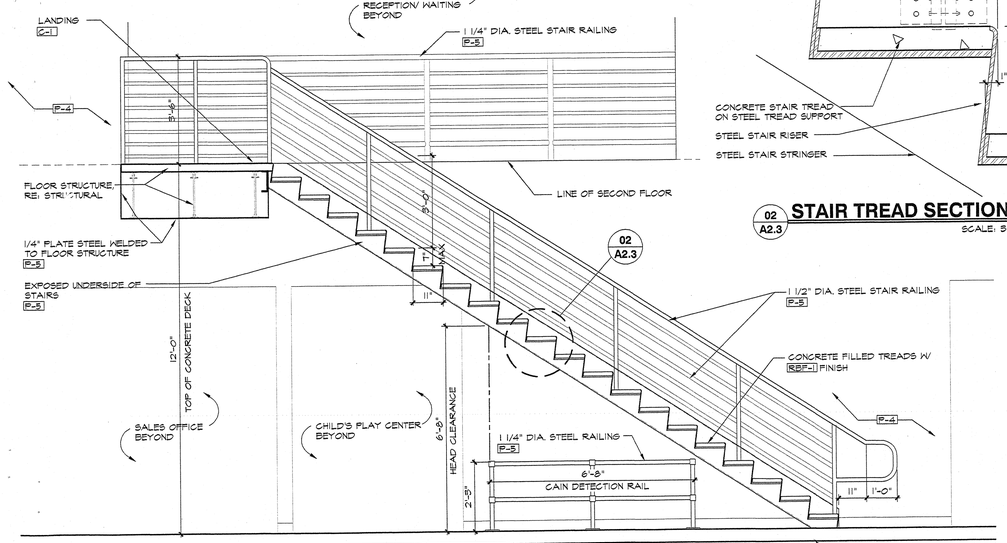
REV. #	DESCRIPTION	DATE
1	ADJUSTED STAIR HEIGHTS TO MEET CODE & CORRECTED RISER/TREAD DIMENSIONS. ADDED NOTES, REVISED AREA OF RESCUE ASSISTANCE NOTE	11/18/03

SEE REVISED



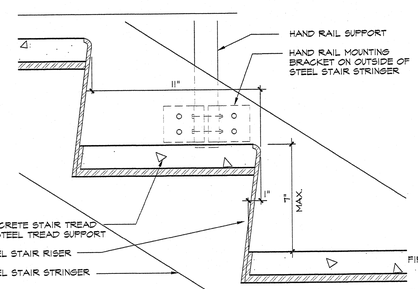
SECOND FLOOR PLAN

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



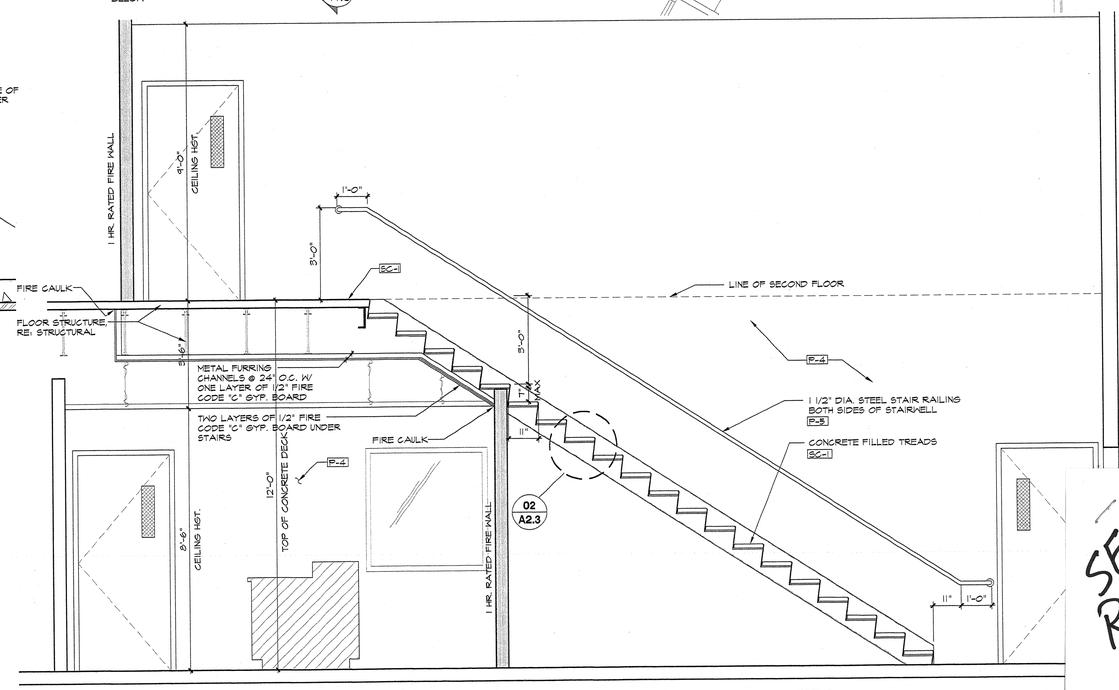
03 A2.3 STAIR SECTION @ SHOWROOM

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



02 A2.3 STAIR TREAD SECTION

SCALE: 3" = 1'-0"



01 A2.3 STAIR SECTION

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

LEGEND:

P-4 — INDICATES FINISH TYPE, REFER TO SHEET A8.5 FOR SPECIFICATIONS

ROGER BEASLEY VOLVO

AN AUTOMOTIVE DEALERSHIP

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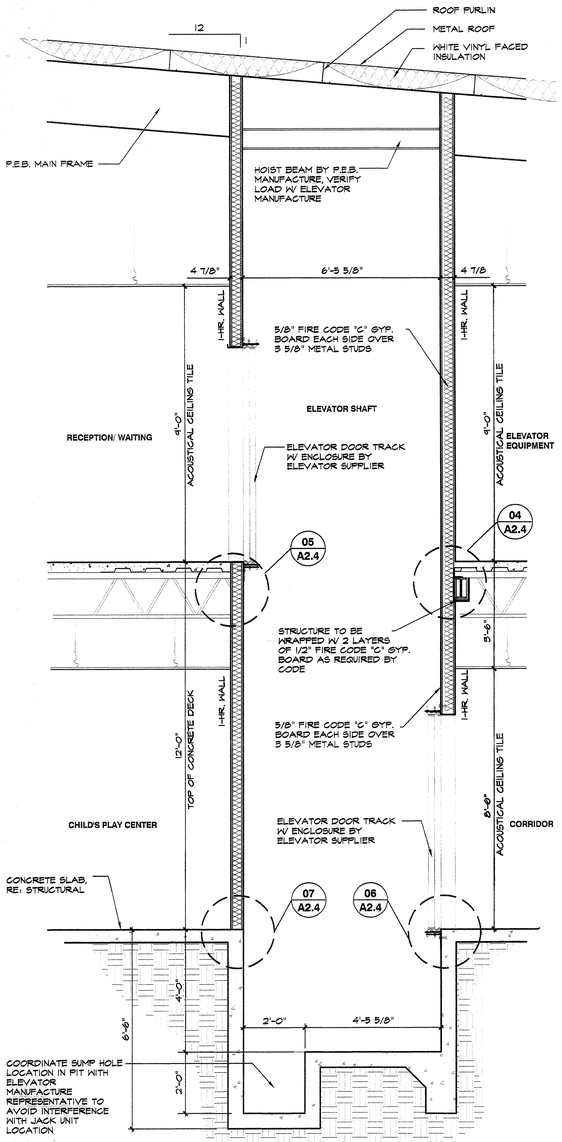
ARCHITECTURE AND PLANNING
P.O. BOX 863 GEORGETOWN, TX 78627
(512) 930-3653 FAX (512) 930-3618 www.eai-tx.com

CONSULTANT INFORMATION:

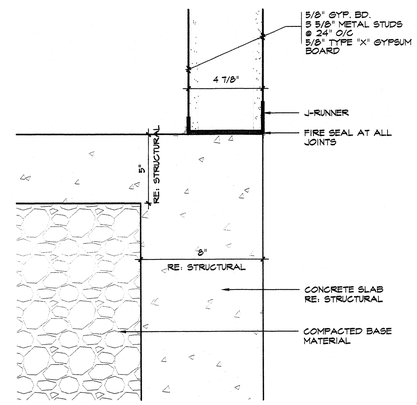
REGISTERED ARCHITECT
STATE OF TEXAS

SEE REVISED



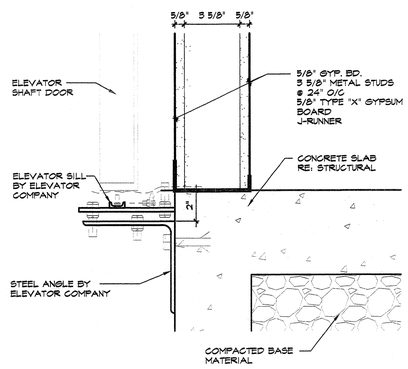
08 A2.4 **SILL @ SECOND FLOOR**

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



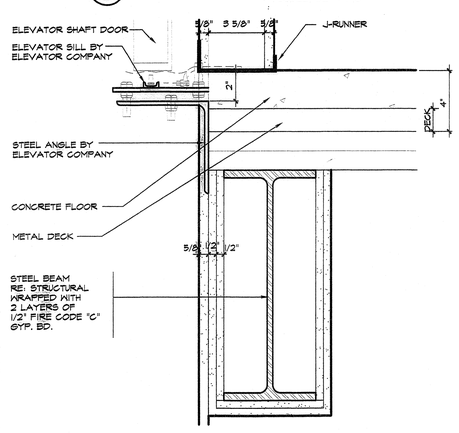
07 A2.4 **SILL @ ELEVATOR SHAFT**

SCALE: 3" = 1'-0"



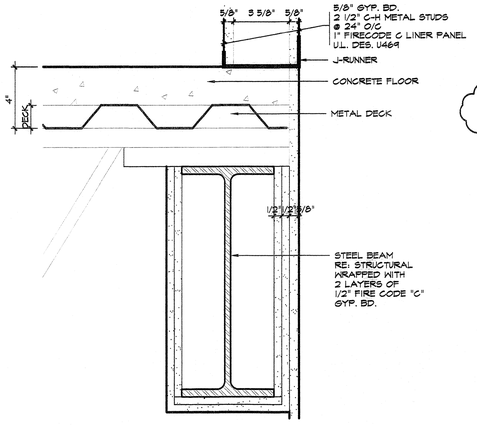
06 A2.4 **SILL @ ELEVATOR SHAFT**

SCALE: 3" = 1'-0"



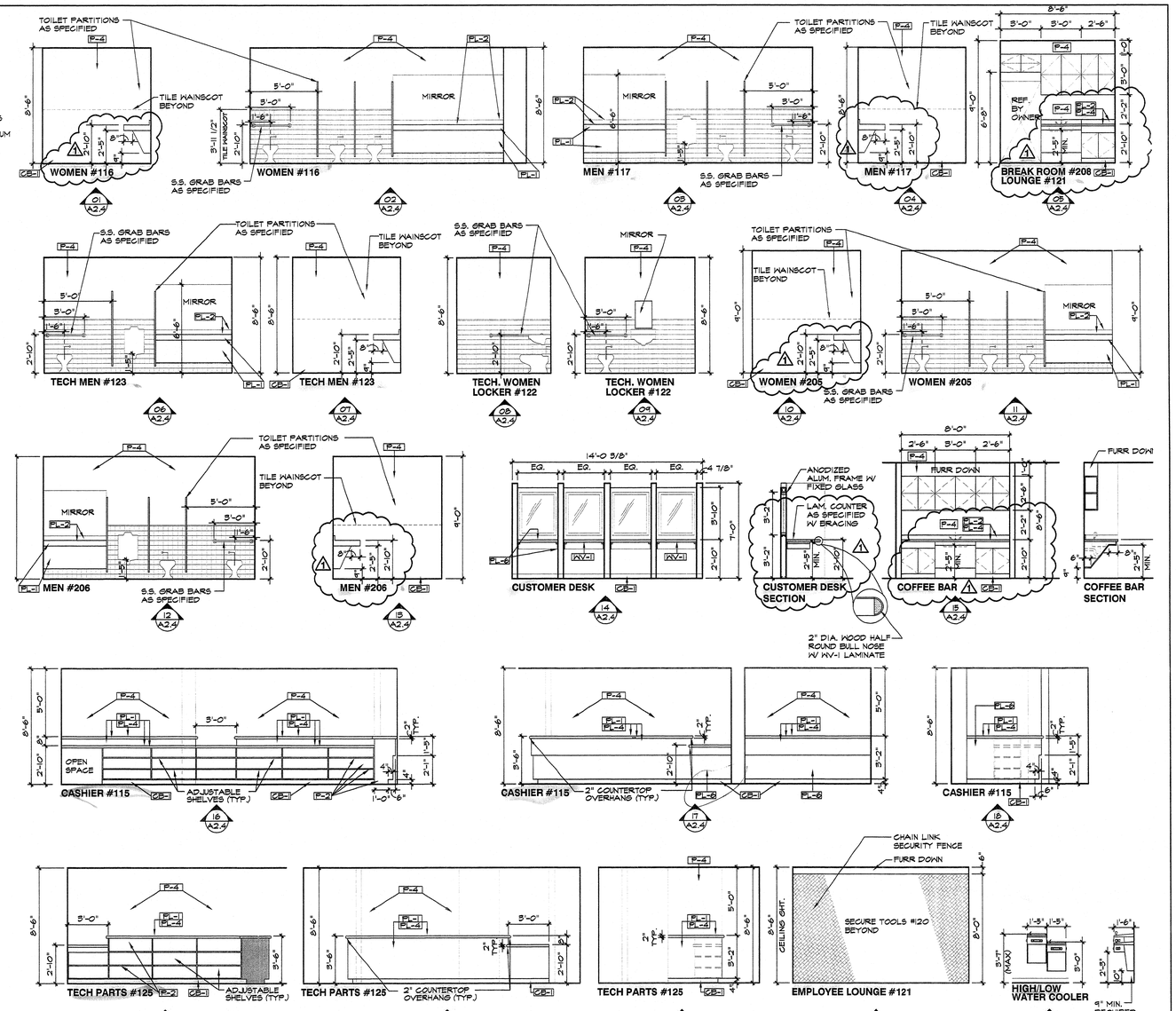
05 A2.4 **SILL @ SECOND FLOOR**

SCALE: 3" = 1'-0"



04 A2.4 **FLOOR @ ELEVATOR SHAFT**

SCALE: 3" = 1'-0"

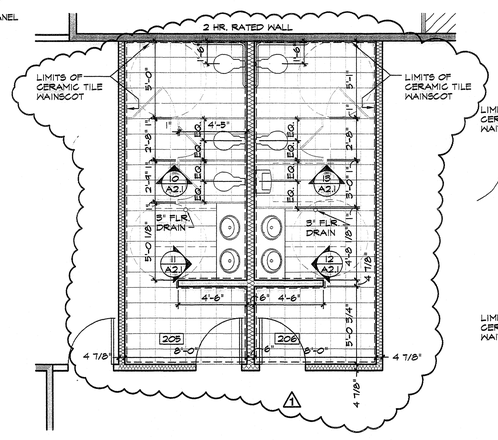


INTERIOR ELEVATIONS

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

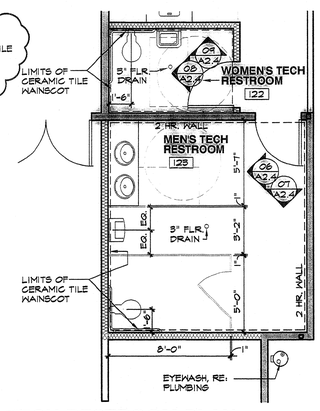
NOTES:

1. CONTRACTOR TO VERIFY ALL FINISHES WITH OWNER PRIOR TO PURCHASE AND INSTALLATION.
2. ALL CASEWORK BY CONTRACTOR.



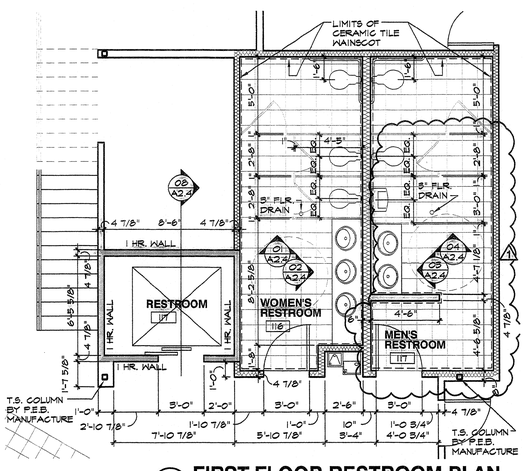
03 A2.4 **SECOND FLOOR RESTROOM PLAN**

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



02 A2.4 **TECH RESTROOM PLAN**

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



01 A2.4 **FIRST FLOOR RESTROOM PLAN**

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

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ELSAASSER ARCHITECTURAL INC.
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REV. #	DESCRIPTION	DATE
1	ADDRESSED A.D.A. COMMENTS	11/8/02

REGISTERED ARCHITECT STATE OF TEXAS

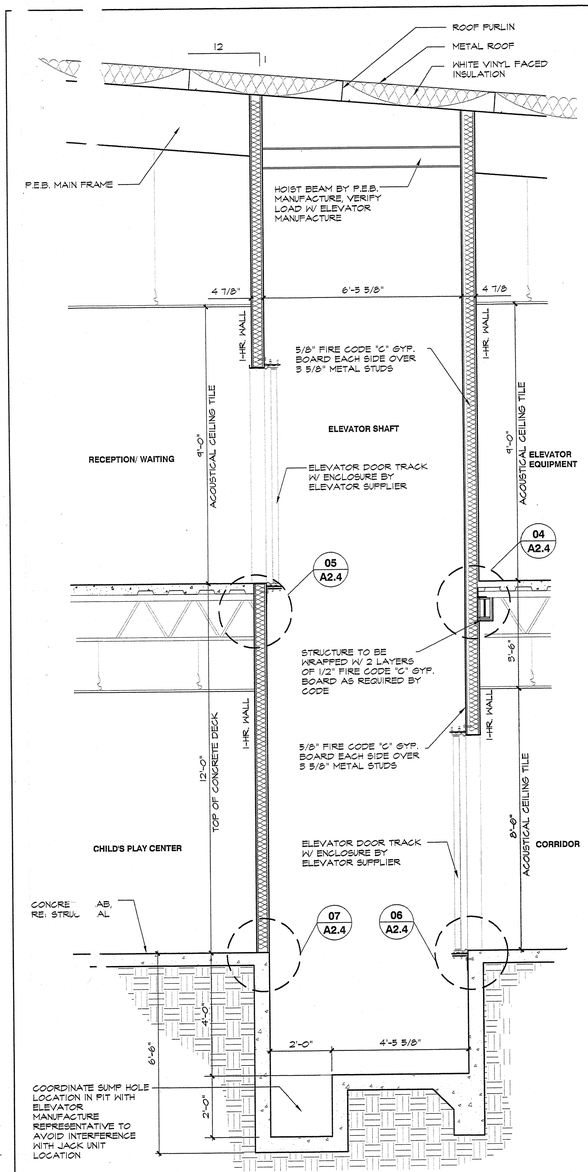
12/09/02

DATE: 09/18/02

PROJECT NO. 02008

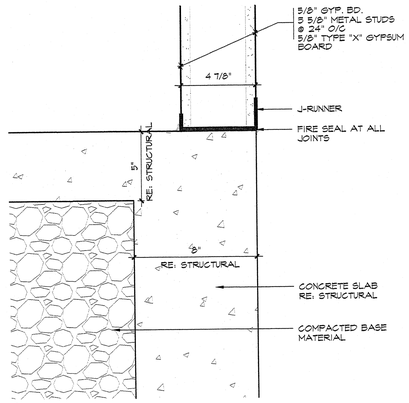
SHEET NO.

A2.4



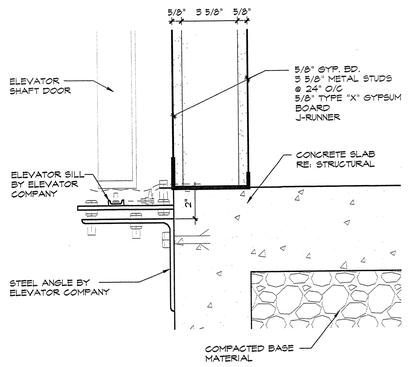
08 A2.4 **SILL @ SECOND FLOOR**

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



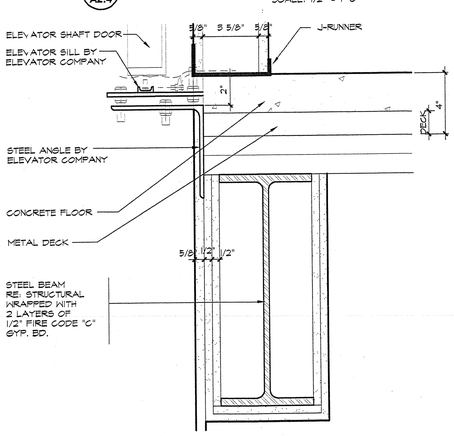
07 A2.4 **SILL @ ELEVATOR SHAFT**

SCALE: 3" = 1'-0"



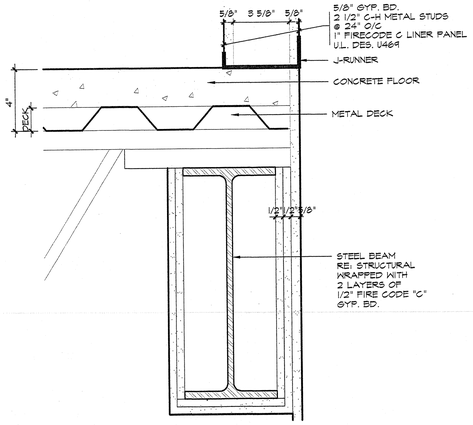
06 A2.4 **SILL @ ELEVATOR SHAFT**

SCALE: 3" = 1'-0"



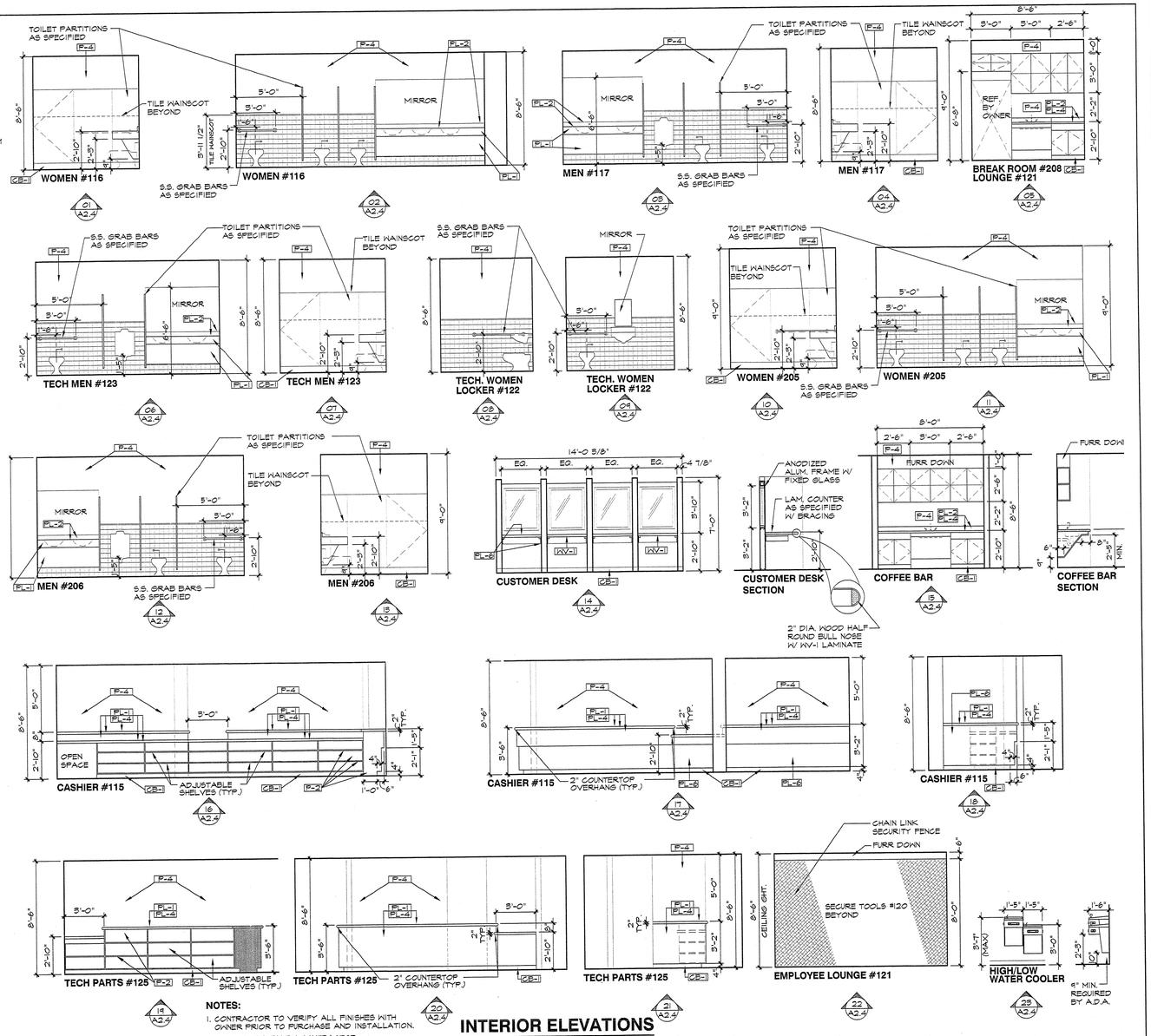
05 A2.4 **SILL @ SECOND FLOOR**

SCALE: 3" = 1'-0"



04 A2.4 **FLOOR @ ELEVATOR SHAFT**

SCALE: 3" = 1'-0"

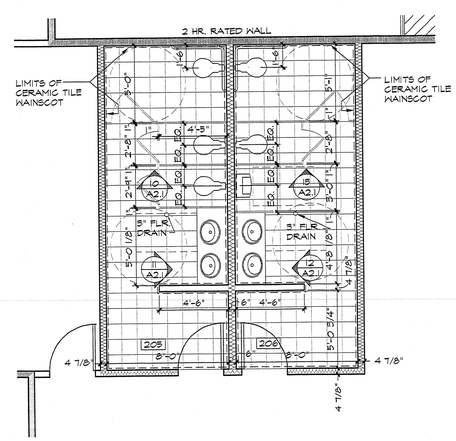


NOTES:

1. CONTRACTOR TO VERIFY ALL FINISHES WITH OWNER PRIOR TO PURCHASE AND INSTALLATION.
2. ALL CASEWORK BY CONTRACTOR.

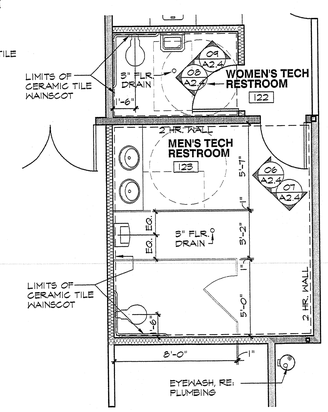
INTERIOR ELEVATIONS

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



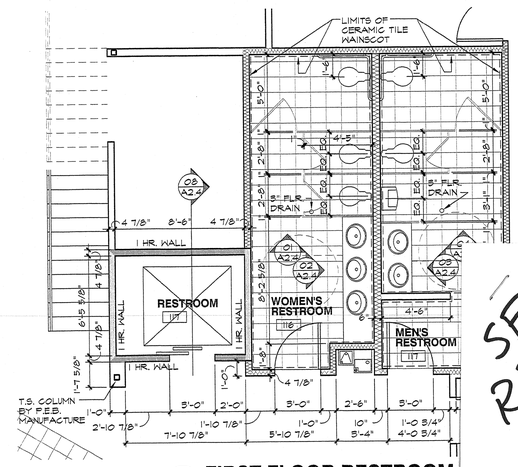
03 A2.4 **SECOND FLOOR RESTROOM PLAN**

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



02 A2.4 **TECH RESTROOM PLAN**

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



01 A2.4 **FIRST FLOOR RESTROOM**

SCALE:

SEE REVISED

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

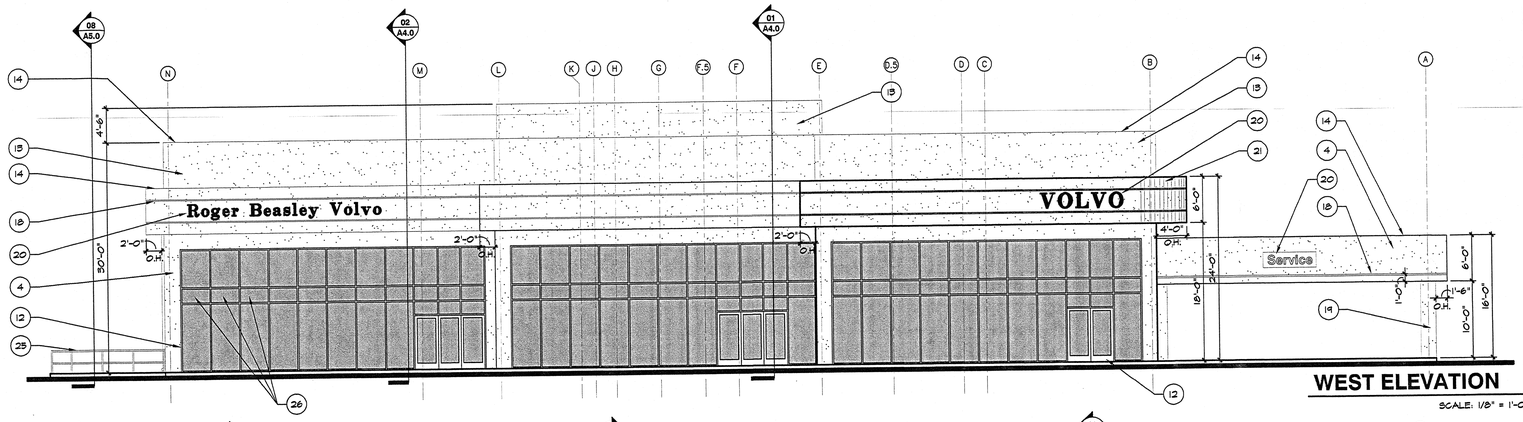
ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
GEORGETOWN, TX 78627
P.O. BOX 1833 GEORGETOWN, TX 78627
FAX (512) 930-3539 www.eai-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS

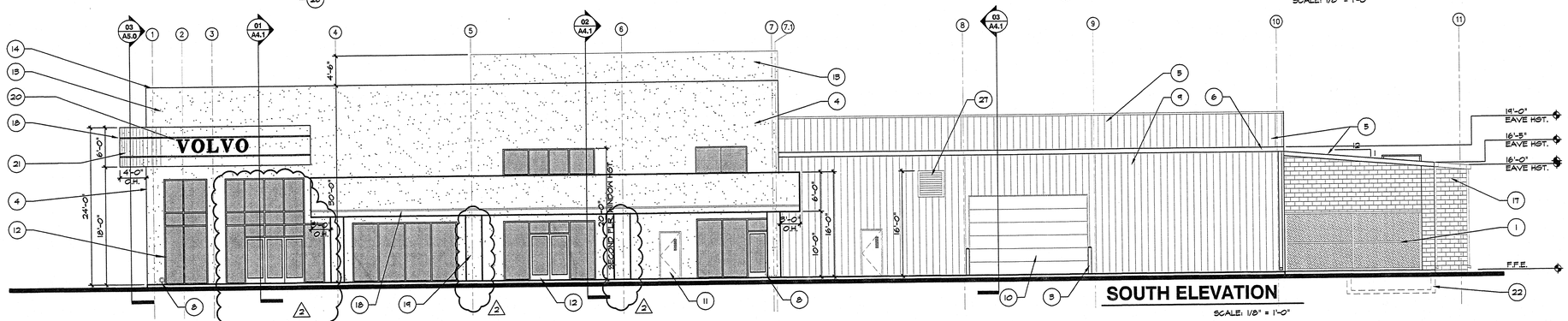
ELEVATION NOTES (ALL NOTES MAY NOT APPLY)

1. 9'-0" HIGH CHAIN LINK FENCING.
2. 4" DIA. GALV. STEEL POST SET IN CONCRETE.
3. 6" CONCRETE FILLED PIPE BOLLARD, (P-10).
4. EIFS WALL SYSTEM AS SPECIFIED
5. METAL PANEL ROOF AS SPECIFIED.
6. METAL GUTTER AND DOWN SPOUT WITH SPLASH BLOCK BELOW
7. INTERNAL METAL GUTTER (ALL SEAMS TO BE SOLDERED AT 30'-0" SECTIONS AND ALL JOINTS TO BE SOLDERED AND SEALED)
8. DOWNSPOUT NOZZLE AS SPECIFIED, REFER TO FLOOR PLANS FOR LOCATIONS
9. METAL BUILDING WALL PANEL AS SPECIFIED
10. STEEL OVERHEAD DOOR AS SPECIFIED, (P-10)
11. INSULATED HOLLOW METAL MAN DOOR AS SCHEDULED, (P-10)
12. ALUMINUM STOREFRONT GLAZING SYSTEM W/ CLEAR ANODIZED FRAMES AND 1" INSULATED GLAZING AS SPECIFIED, SEE SHEET A8.0
13. PARAPET WALL BEYOND.
14. PRE-FINISHED BREAK METAL PARAPET CAP W/ DRIP EDGE BOTH SIDES, (P-9)
15. EIFS OVER METAL FRAMING RE: DETAIL 07/A8.2
17. C.M.U. VENEER
18. ACCENT CHAMFER RE: DETAIL 19/A8.2, (P-1)
19. EIFS COLUMN COVER RE:DETAIL 06/A8.2
20. DEALER SIGNAGE, BY OWNER
21. CURVED OVERHEAD CANOPY
22. BELOW GRADE CONCRETE OIL CONTAINMENT
23. BELOW GRADE TRUCK RAMP
24. LOADING DOCK
25. METAL HAND RAIL 3'-0" A.F.F.
26. SPANDREL GLASS
27. PRE-FINISHED METAL LOUVER AND EXHAUST FAN; RE: MECHANICAL



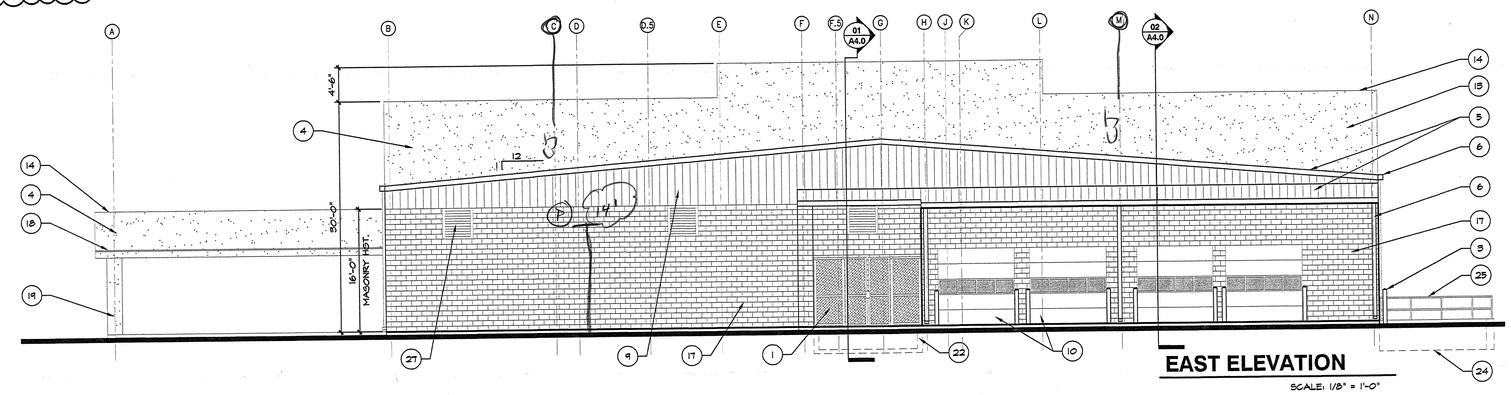
WEST ELEVATION

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



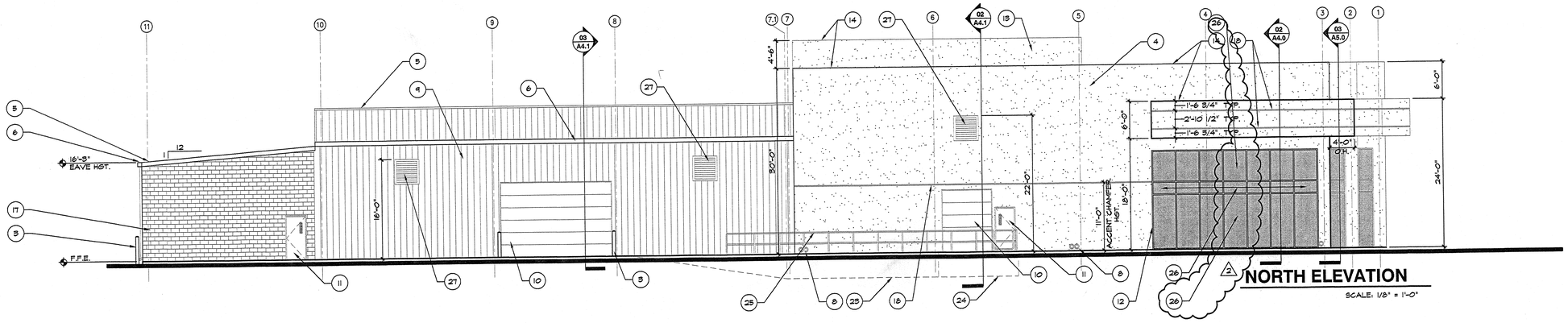
SOUTH ELEVATION

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



EAST ELEVATION

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



NORTH ELEVATION

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

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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ARCHITECTURE AND PLANNING
P.O. BOX 933 GEORGETOWN, TX 78627
(512) 930-3383 FAX: (512) 930-3819 www.ea-tx.com

REV. #	DESCRIPTION	DATE
2	REVISED WINDOW AND COLUMN SIZES TO ACCOMMODATE PEB STEEL STRUCTURE	04/16/03

REGISTERED ARCHITECT
STATE OF TEXAS
04/17/03

DATE:
09/18/02

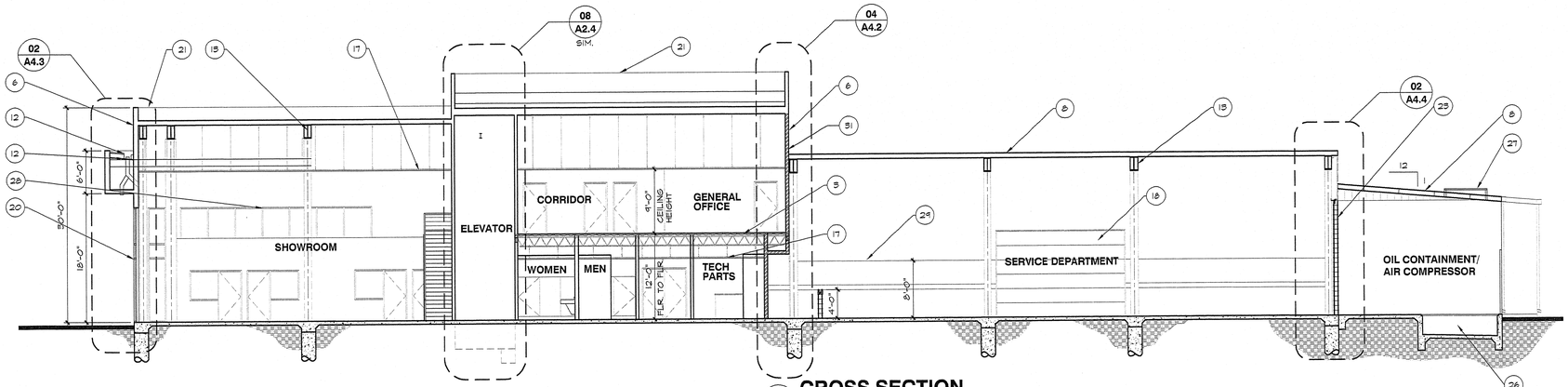
PROJECT NO.
02008

SHEET NO.

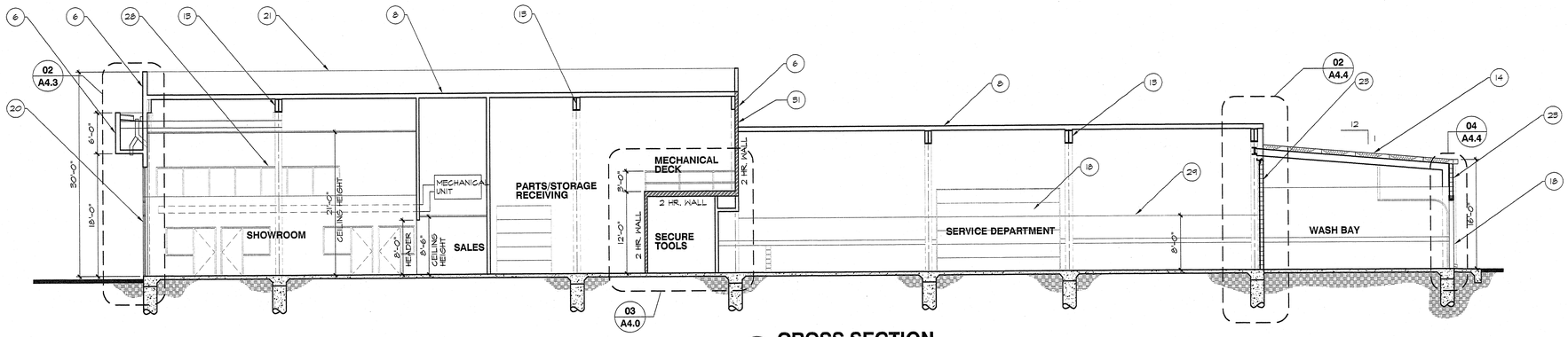
A3.0

NOTES (ALL NOTES MAY NOT APPLY)

1. CONCRETE FOUNDATION SLAB; RE: STRUCTURAL.
2. CONCRETE FILLED PIPE BOLLARD.
3. CONCRETE FLOOR DECK ON METAL DECKING; RE: STRUCTURAL.
4. CONCRETE RETAINING WALL AT LOADING DOCK
5. CONCRETE LOADING DOCK
6. EIFS WALL SYSTEM AS SPECIFIED
7. EIFS COLUMNS
8. METAL PANEL ROOF AS SPECIFIED.
9. METAL BUILDING PANEL
10. METAL U PANEL
11. METAL GUTTER AND DOWN SPOUT WITH SPLASH BLOCK BELOW
12. INTERNAL METAL GUTTER (ALL SEAMS TO BE SOLDERED AT 30'-0"
13. P.E.B. FRAME BY METAL BUILDING MANUFACTURER.
14. WHITE VINYL-FACED R19 BATT INSULATION BETWEEN ROOF PERLIN AND P.E.B. FRAME.
15. STEEL BEAM; PROVIDED BY METAL BUILDING MANUFACTURER
16. STRUCTURAL STEEL COLUMN; PROVIDED BY METAL BUILDING MANUFACTURER
17. SUSPENDED CEILING AS SPECIFIED
18. INSULATED STEEL OVERHEAD DOOR W/ INSULATED GLAZING PANEL WHERE INDICATED AND AS SPECIFIED.
19. INSULATED HOLLOW METAL MAN DOOR PAINTED AS SCHEDULED.
20. ALUMINUM STOREFRONT GLAZING SYSTEM W/ CLEAR ANODIZED FRAMES AND 1" INSULATED GLAZING AS SPECIFIED.
21. PARAPET WALL BEYOND.
22. INTERNAL DOWNSPOUT
23. C.M.U.
24. METAL HAND RAIL
25. ROLL DOWN FIRE SHUTTER AS SPECIFIED
26. OIL CONTAINMENT, RE: STRUCTURAL
27. SATELLITE SUPPORT DECK, RE: A7.0 FOR LOCATION & A8.0 FOR DETAILS
28. STOREFRONT FRAME WINDOW BEYOND
29. METAL WAINSCOT PANEL ON NORTH AND SOUTH WALLS OF SERVICE DEPART. RE: DETAIL 06/A8.2, CONTINUE PAINTED STRIPE FROM ADJACENT CMU WALL.
30. 8" PAINTED ACCENT STRIPE 4'-0" A.F.F., P-1

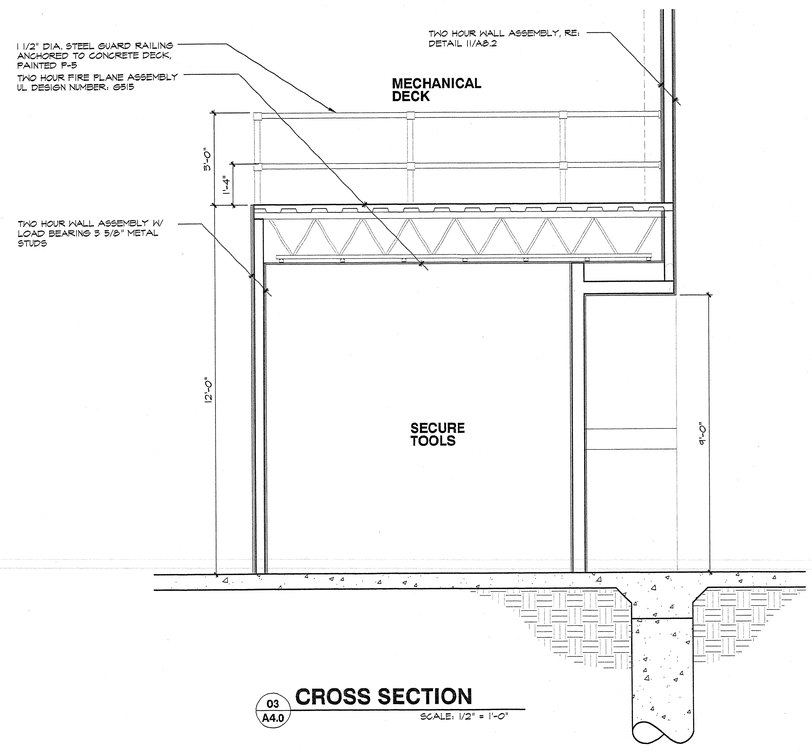


01 A4.0 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



03 A4.0

02 A4.0 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



03 A4.0 **CROSS SECTION**
SCALE: 1/2" = 1'-0"

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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(512) 930-5353 FAX (512) 930-2818 www.ea-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT JAMES L. ELSASSER 8833 STATE OF TEXAS
09/18/02

DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

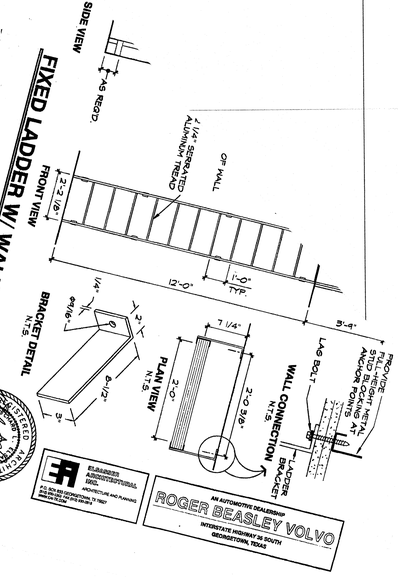
SHEET NO.

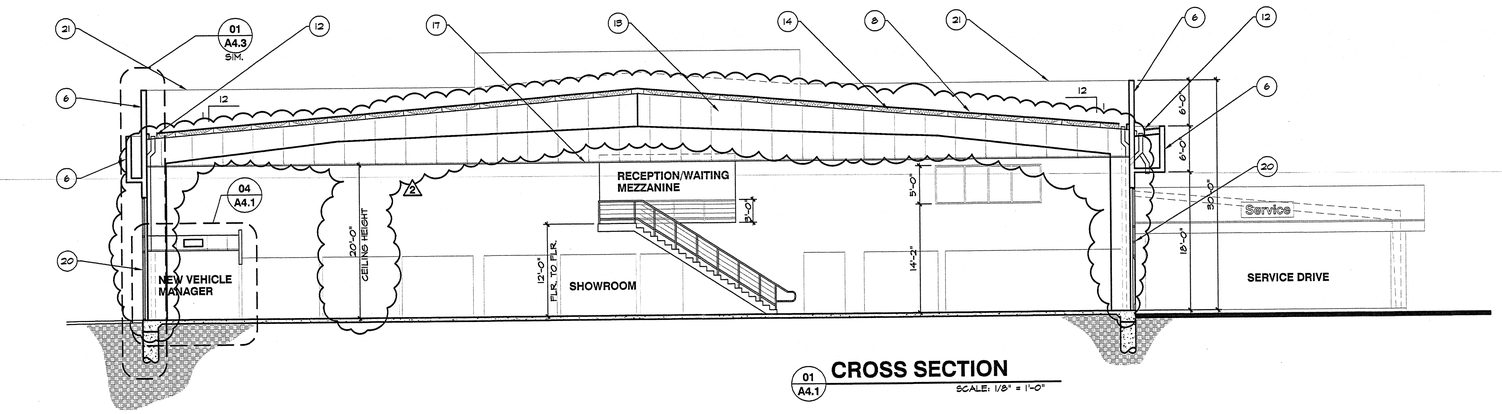
A4.0

NOTES (ALL NOTES MAY NOT APPLY)

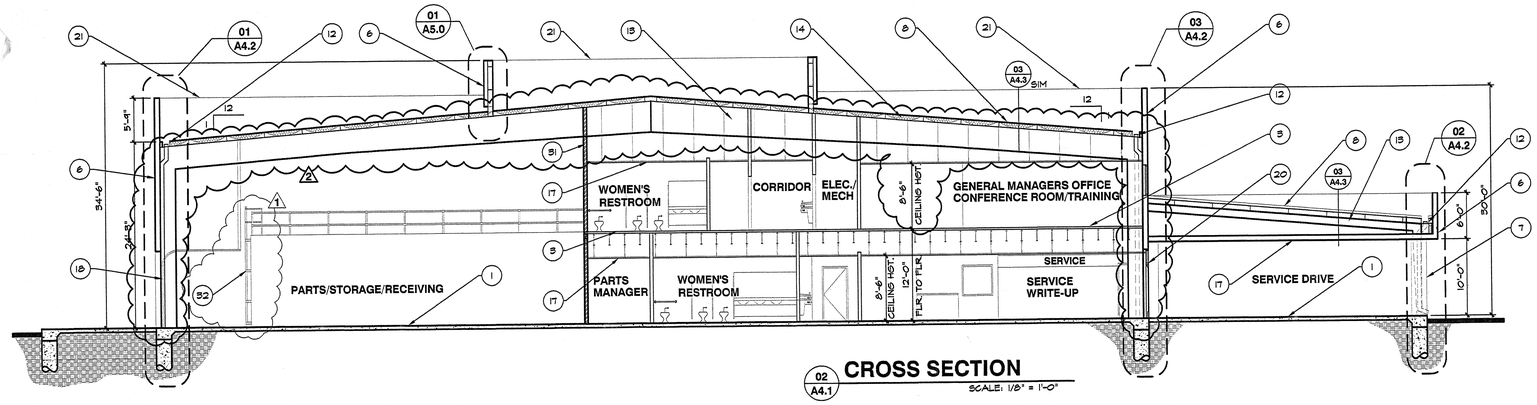
1. CONCRETE FOUNDATION SLAB, RE: STR
2. CONCRETE FILLED PIPE BOLLARD.
3. CONCRETE FLOOR DECK ON METAL DE
4. CONCRETE RETAINING WALL AT LOADIN
5. CONCRETE LOADING DOCK
6. EIFS WALL SYSTEM AS SPECIFIED
7. EIFS COLUMNS
8. METAL PANEL ROOF AS SPECIFIED.
9. METAL BUILDING PANEL
10. METAL U PANEL
11. METAL GUTTER AND DOWN SPOUT WI
12. INTERNAL METAL GUTTER (ALL SEAN
13. P.E.B. FRAME BY METAL BUILDINGS
14. WHITE VINYL-FACED R19 BATT INSU AND P.E.B. FRAME.
15. STEEL BEAM, PROVIDED BY META
16. STRUCTURAL STEEL COLUMN; FRO
17. SUSPENDED CEILING AS SPECIFI
18. INSULATED STEEL OVERHEAD D WHERE INDICATED AND AS SPE
19. INSULATED HOLLOW METAL MA
20. ALUMINUM STOREFRONT GLAZ AND 1" INSULATED GLAZING
21. PARAPET WALL BEYOND.
22. INTERNAL DOWNSPOUT
23. C.M.U.
24. METAL HAND RAIL
25. ROLL DOWN FIRE SHUTTER
26. OIL CONTAINMENT, RE: ST
27. SATELLITE SUPPORT DEC
28. STOREFRONT FRAME WI
29. METAL WAINSCOT PANE SOUTH WALLS OF SERV DETAIL C6/A9.2, CONT STRIPE FROM ADJACI
30. 8" PAINTED ACCENT P-1
31. 2-HOUR RATED WAL
32. MECHANICAL ACCE

KEYED NOTE #32 ON SHEET A4.1 5/6/03

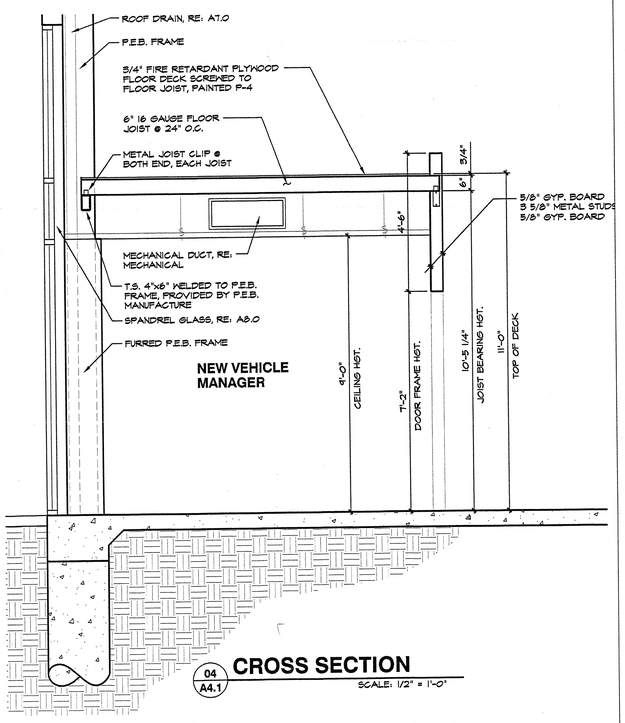




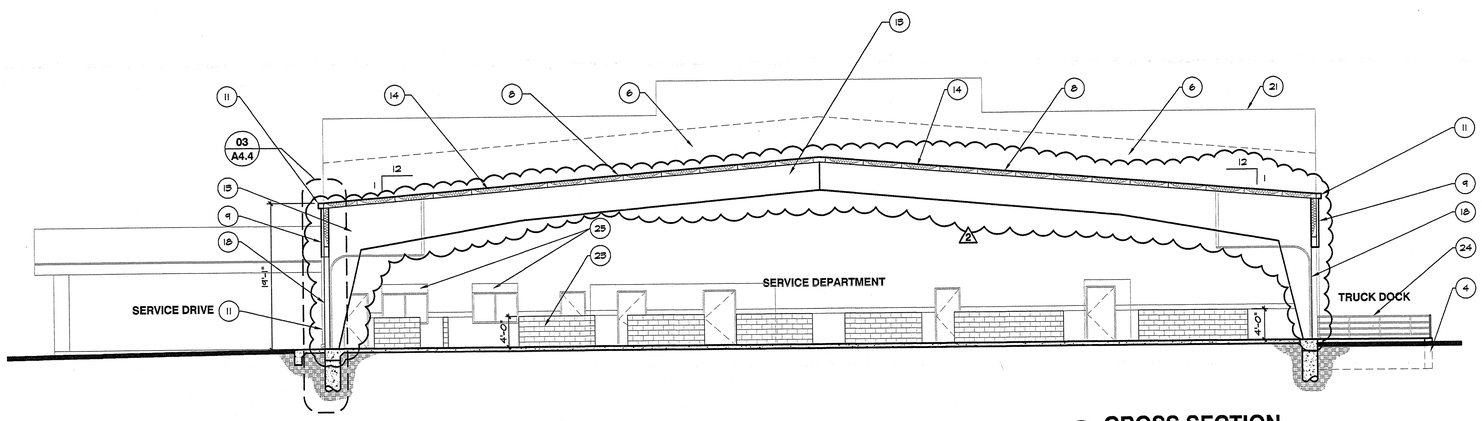
01 A4.1 CROSS SECTION
SCALE: 1/8" = 1'-0"



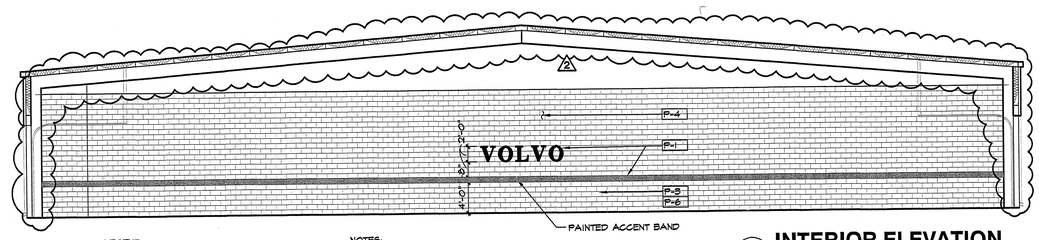
02 A4.1 CROSS SECTION
SCALE: 1/8" = 1'-0"



04 A4.1 CROSS SECTION
SCALE: 1/2" = 1'-0"



03 A4.1 CROSS SECTION
SCALE: 1/8" = 1'-0"



LEGEND:
P-5 FINISH KEY, RE: A8.3 FOR SPECIFICATIONS

NOTES:
1. SERVICE REPAIR AREA AND WASH BAY AREA WALL GRAPHICS TO CONSIST OF LOGO AND COLOR BAND PAINTED DIRECTLY ON WALL SURFACE.
2. POSITION LOGO CENTERED LEFT TO RIGHT ON WALL SURFACE

05 A4.1 INTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 933 GEORGETOWN, TX 78627
(512) 930-3563 FAX (512) 930-3918 www.es-tx.com

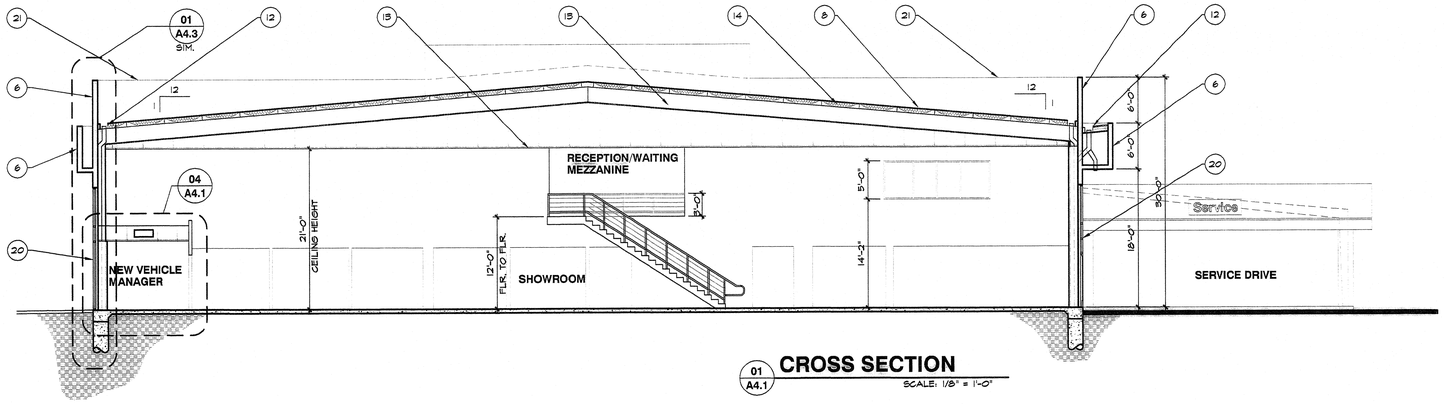
REV. #	DESCRIPTION	DATE
1	ADDED MECHANICAL DECK ACCESS LADDER	11/26/02
2	REVISED COLUMN SIZES AND CEILING HEIGHTS	4/16/03

REGISTERED ARCHITECT RICHARD L. ELSASSER STATE OF TEXAS
04/17/03

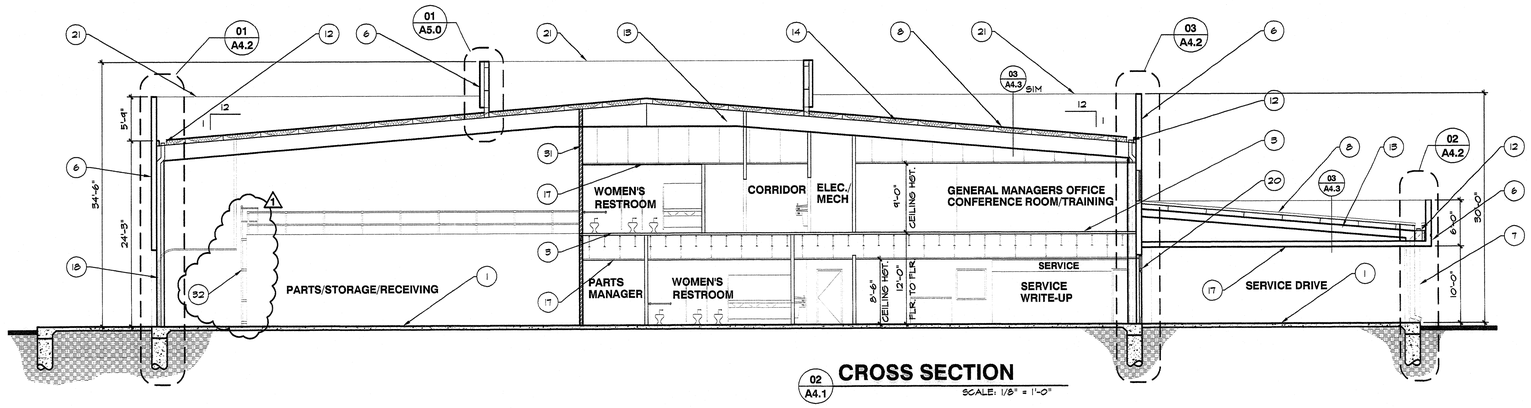
DATE: 09/18/02
PROJECT NO. 02008
SHEET NO.
A4.1

NOTES (ALL NOTES MAY NOT APPLY)

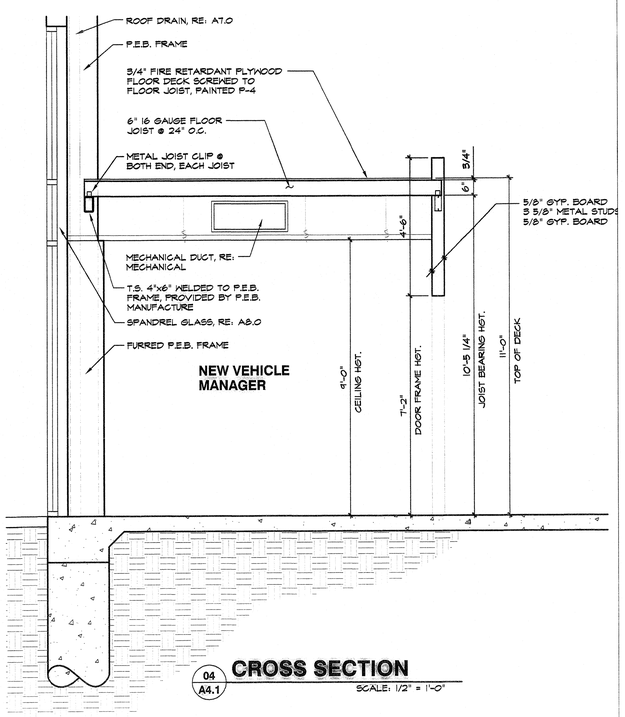
1. CONCRETE FOUNDATION SLAB; RE: STRUCTURAL.
2. CONCRETE FILLED PIPE BOLLARD.
3. CONCRETE FLOOR DECK ON METAL DECKING; RE: STRUCTURAL.
4. CONCRETE RETAINING WALL AT LOADING DOCK
5. CONCRETE LOADING DOCK
6. EIFS WALL SYSTEM AS SPECIFIED
7. EIFS COLUMNS
8. METAL PANEL ROOF AS SPECIFIED.
9. METAL BUILDING PANEL
10. METAL U PANEL
11. METAL GUTTER AND DOWN SPOUT WITH SPLASH BLOCK BELOW
12. INTERNAL METAL GUTTER (ALL SEAMS TO BE SOLDERED AT 50'-0")
13. P.E.B. FRAME BY METAL BUILDING MANUFACTURER.
14. WHITE VINYL-FACED R19 BATT INSULATION BETWEEN ROOF PERLIN AND P.E.B. FRAME.
15. STEEL BEAM; PROVIDED BY METAL BUILDING MANUFACTURER
16. STRUCTURAL STEEL COLUMN; PROVIDED BY METAL BUILDING MANUFACTURER
17. SUSPENDED CEILING AS SPECIFIED
18. INSULATED STEEL OVERHEAD DOOR W/ INSULATED GLAZING PANEL WHERE INDICATED AND AS SPECIFIED.
19. INSULATED HOLLOW METAL MAN DOOR PAINTED AS SCHEDULED.
20. ALUMINUM STOREFRONT GLAZING SYSTEM W/ CLEAR ANODIZED FRAMES AND 1" INSULATED GLAZING AS SPECIFIED, SEE SHEET A8.0
21. PARAPET WALL BEYOND.
22. INTERNAL DOWNSPOUT
23. C.M.U.
24. METAL HAND RAIL
25. ROLL DOWN FIRE SHUTTER AS SPECIFIED
26. OIL CONTAINMENT, RE: STRUCTURAL.
27. SATELLITE SUPPORT DECK, RE: A7.0 FOR LOCATION & A5.0 FOR DETAILS
28. STOREFRONT FRAME WINDOW BEYOND
29. METAL WAINSCOT PANEL ON NORTH AND SOUTH WALLS OF SERVICE DEPART. RE: DETAIL D6/A8.2. CONTINUE PAINTED STRIPE FROM ADJACENT CMU WALL.
30. 8" PAINTED ACCENT STRIPE 4'-0" A.F.F., P-1
31. 2-HOUR RATED WALL RE: A2.0
32. MECHANICAL ACCESS LADDER



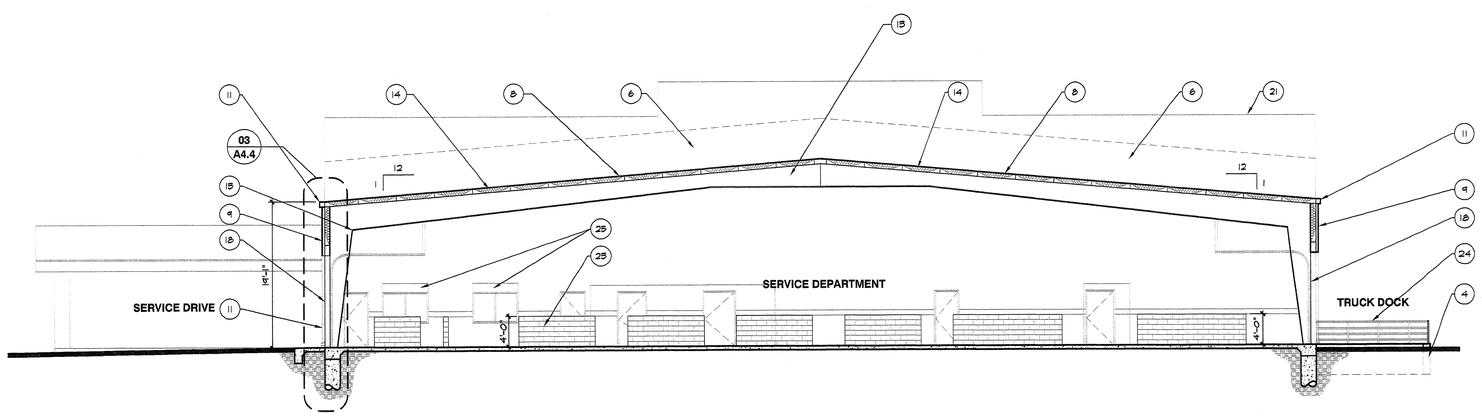
01 A4.1 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



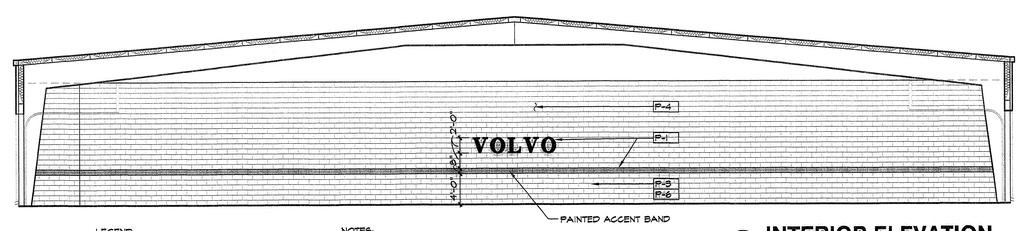
02 A4.1 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



04 A4.1 **CROSS SECTION**
SCALE: 1/2" = 1'-0"



03 A4.1 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



LEGEND:

P-6 FINISH KEY, RE: A8.3 FOR SPECIFICATIONS

NOTES:

1. SERVICE REPAIR AREA AND WASH BAY AREA WALL GRAPHICS TO CONSIST OF LOGO AND COLOR BAND PAINTED DIRECTLY ON WALL SURFACE.
2. POSITION LOGO CENTERED LEFT TO RIGHT ON WALL SURFACE

05 A4.1 **INTERIOR ELEVATION**
SCALE: 1/8" = 1'-0"

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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(512) 930-3353 FAX (512) 930-2818 www.ea-tx.com

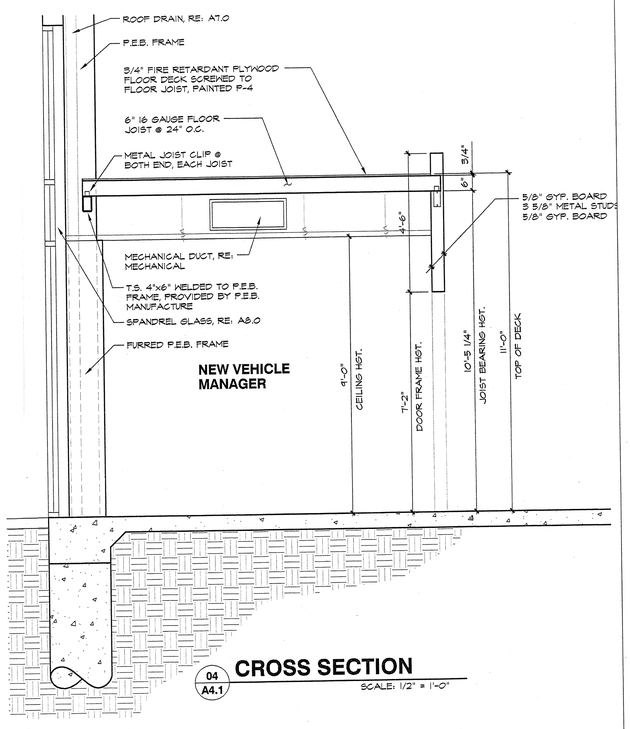
REV. #	DESCRIPTION	DATE
1	ADDED MECHANICAL DECK ACCESS LADDER	11/8/02

REGISTERED ARCHITECT

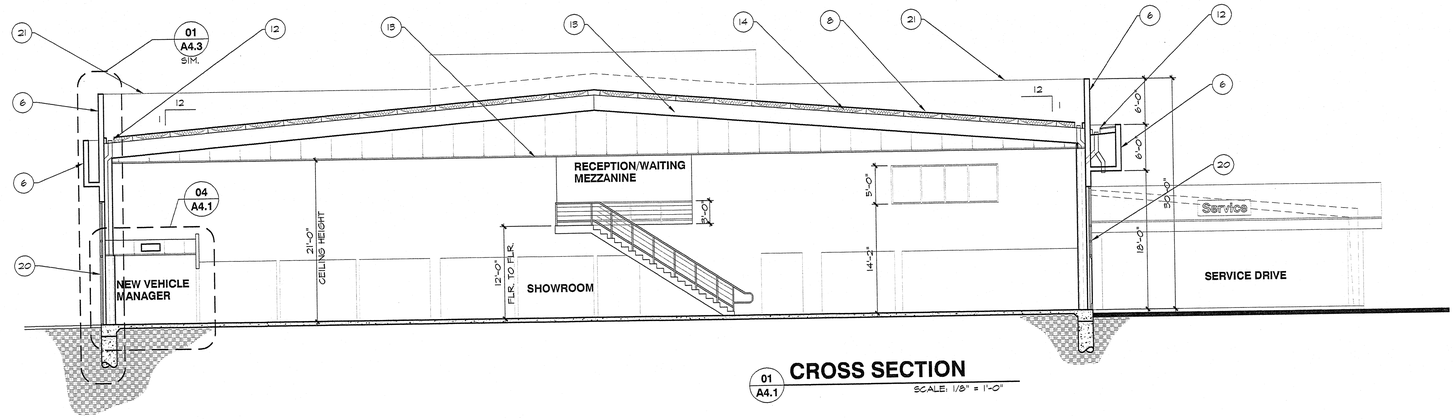
SEE REVISED

NOTES (ALL NOTES MAY NOT APPLY)

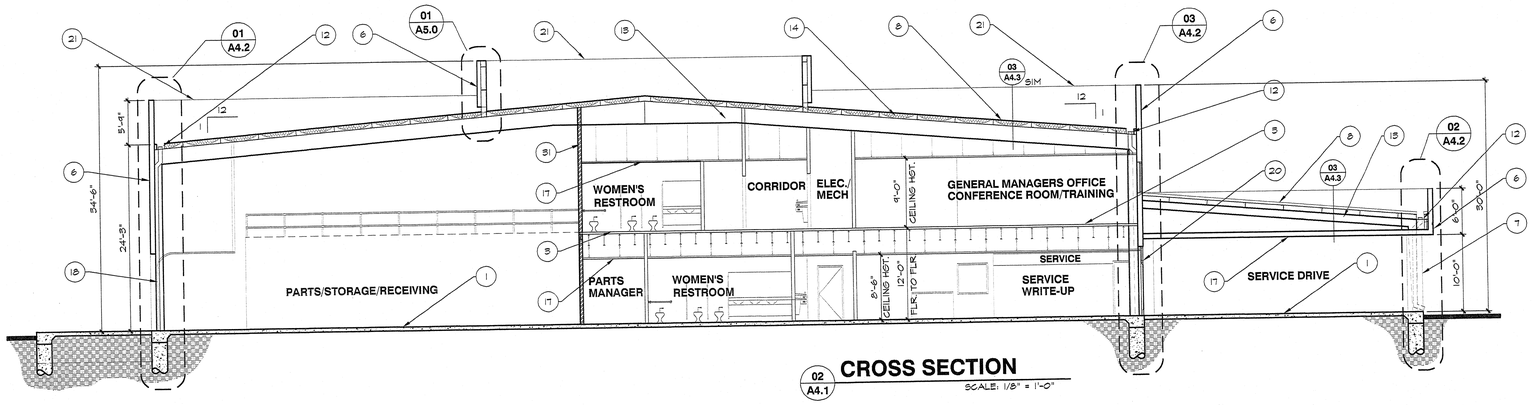
1. CONCRETE FOUNDATION SLAB; RE: STRUCTURAL.
2. CONCRETE FILLED PIPE BOLLARD.
3. CONCRETE FLOOR DECK ON METAL DECKING; RE: STRUCTURAL.
4. CONCRETE RETAINING WALL AT LOADING DOCK
5. CONCRETE LOADING DOCK
6. EIFS WALL SYSTEM AS SPECIFIED
7. EIFS COLUMNS
8. METAL PANEL ROOF AS SPECIFIED.
9. METAL BUILDING PANEL
10. METAL U PANEL
11. METAL GUTTER AND DOWN SPOUT WITH SPLASH BLOCK BELOW
12. INTERNAL METAL GUTTER (ALL SEAMS TO BE SOLDERED AT 50'-0")
13. F.E.B. FRAME BY METAL BUILDING MANUFACTURER.
14. WHITE VINYL-FACED R19 BATT INSULATION BETWEEN ROOF PERLIN AND P.E.B. FRAME.
15. STEEL BEAM; PROVIDED BY METAL BUILDING MANUFACTURER
16. STRUCTURAL STEEL COLUMN; PROVIDED BY METAL BUILDING MANUFACTURER
17. SUSPENDED CEILING AS SPECIFIED
18. INSULATED STEEL OVERHEAD DOOR W/ INSULATED GLAZING PANEL WHERE INDICATED AND AS SPECIFIED.
19. INSULATED HOLLOW METAL MAN DOOR PAINTED AS SCHEDULED.
20. ALUMINUM STOREFRONT GLAZING SYSTEM W/ CLEAR ANODIZED FRAMES AND 1" INSULATED GLAZING AS SPECIFIED, SEE SHEET A5.0
21. PARAPET WALL BEYOND.
22. INTERNAL DOWNSPOUT
23. C.M.U.
24. METAL HAND RAIL
25. ROLL DOWN FIRE SHUTTER AS SPECIFIED
26. OIL CONTAINMENT, RE: STRUCTURAL
27. SATELLITE SUPPORT DECK, RE: A7.0 FOR LOCATION & A5.0 FOR DETAILS
28. STOREFRONT FRAME WINDOW BEYOND
29. METAL WAINSCOT PANEL ON NORTH AND SOUTH WALLS OF SERVICE DEPART. RE: DETAIL 06/A8.2. CONTINUE PAINTED STRIPE FROM ADJACENT CMU WALL.
30. 8" PAINTED ACCENT STRIPE 4'-0" A.F.F., P-1
31. 2 HOUR RATED WALL RE: A2.0



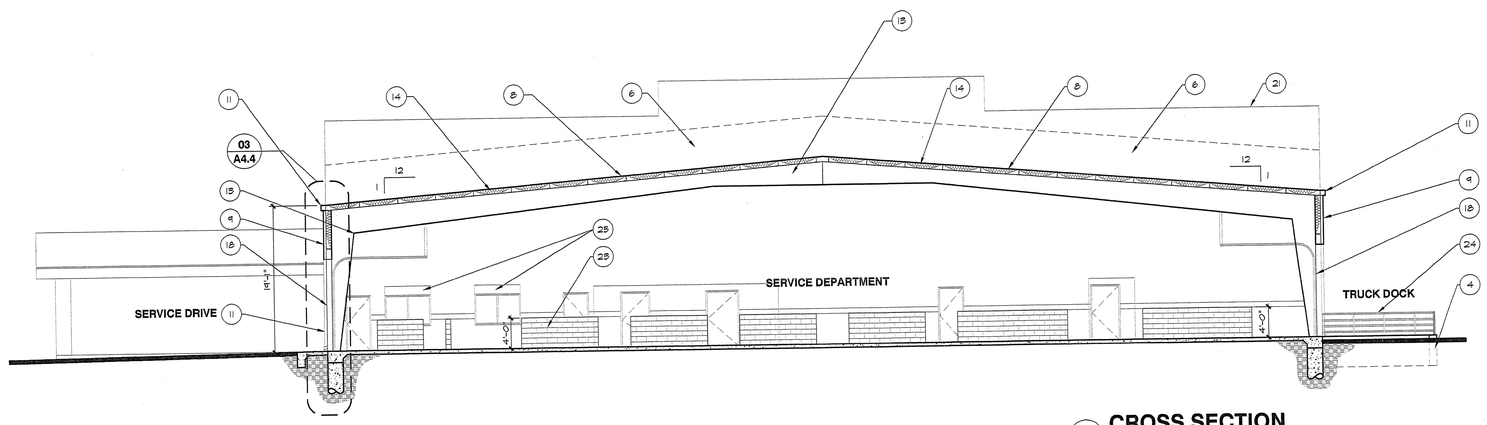
04 A4.1 **CROSS SECTION**
SCALE: 1/2" = 1'-0"



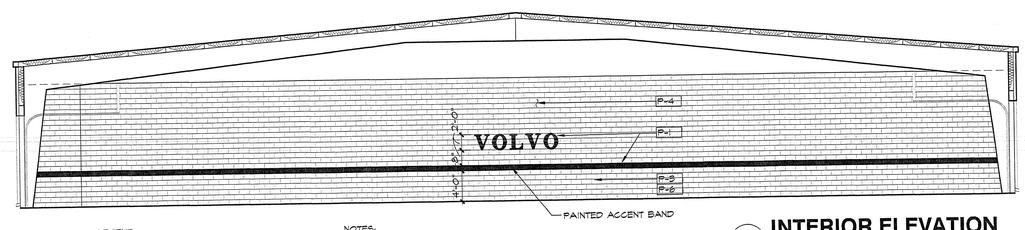
01 A4.1 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



02 A4.1 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



03 A4.1 **CROSS SECTION**
SCALE: 1/8" = 1'-0"



05 A4.1 **INTERIOR ELEVATION**
SCALE: 1/8" = 1'-0"

LEGEND:

P-6 FINISH KEY, RE: A8.3 FOR SPECIFICATIONS

NOTES:

1. SERVICE REPAIR AREA AND WASH BAY AREA WALL GRAPHICS TO CONSIST OF LOGO AND COLOR BAND PAINTED DIRECTLY ON WALL SURFACE.
2. POSITION LOGO CENTERED LEFT TO RIGHT ON WALL SURFACE

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(512) 930-5363 FAX (512) 930-2818 www.ea-tx.com

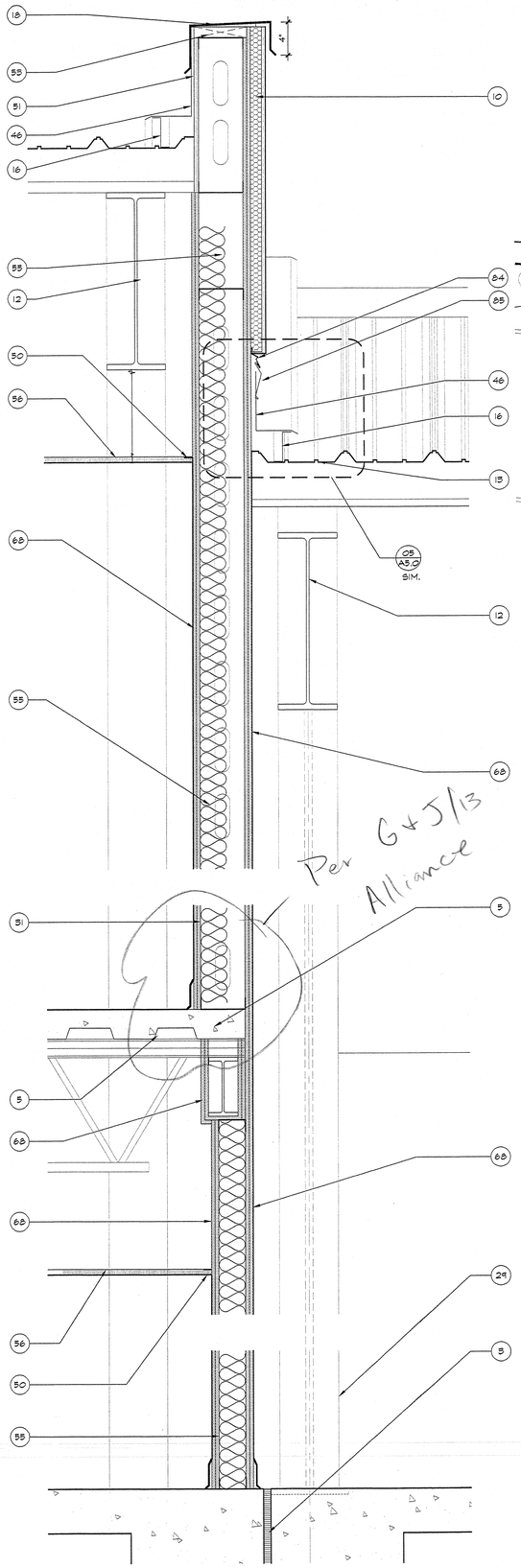
CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/19/02

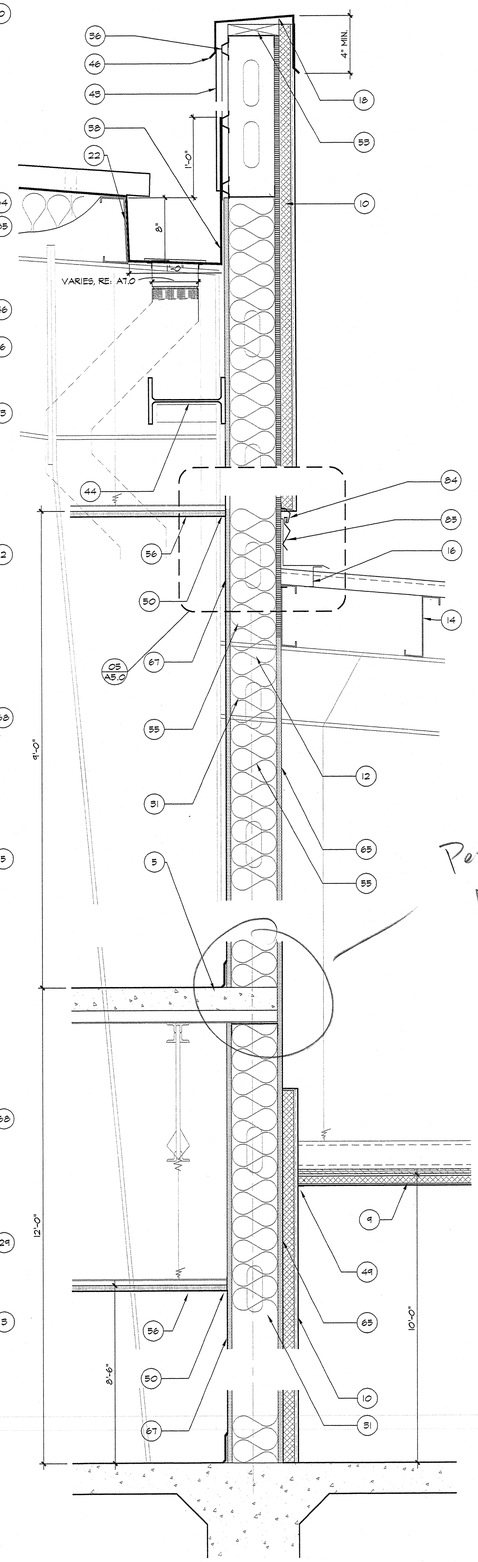
SEE REVISED

NOTES (ALL NOTES MAY NOT APPLY)

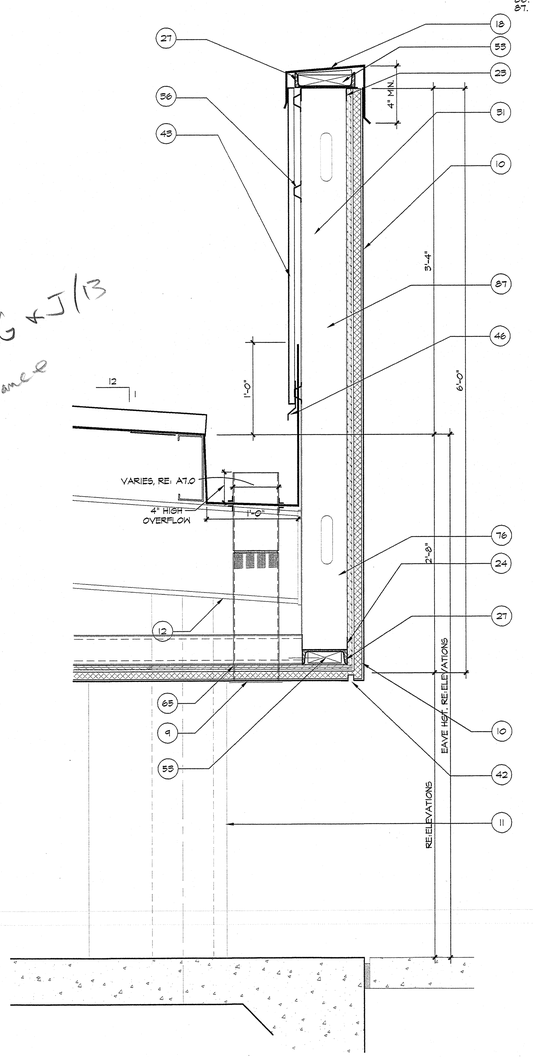
1. CONCRETE FOUNDATION SLAB; RE: STRUCTURAL.
2. CONCRETE FILLED PIPE BOLLARD.
3. EXPANSION JOINT FILLER AS SPECIFIED
4. FLUSH SIDEWALK AT DOOR THRESHOLD ONLY W/ 1/8" PER FOOT SLOPED AWAY FROM BUILDING IN ALL DIR.
5. CONCRETE FLOOR DECK ON METAL DECKING; RE: STRUCTURAL.
6. CONCRETE FILLED TREAD
7. CONCRETE RETAINING WALL AT LOADING DOCK
8. CONCRETE LOADING DOCK
9. EIFS SOFFIT AS SPECIFIED
10. EIFS WALL SYSTEM AS SPECIFIED
11. EIFS COLUMNS
12. P.E.B. FRAME BY METAL BUILDING MANUFACTURER.
13. METAL PANEL ROOF AS SPECIFIED.
14. "Z" PERLIN BY METAL BUILDING MANUFACTURER.
15. WHITE VINYL-FACED R19 BATT INSULATION BETWEEN ROOF PERLIN AND P.E.B. FRAME.
16. PRE-FINISHED METAL CLOSURE.
17. PRE-FINISHED METAL EAVE CLOSURE TRIM.
18. PRE-FINISHED BREAK METAL PARAPET CAP W/ DRIP EDGE BOTH SIDES.
19. NOT USED
20. PRE-FINISHED METAL BASE TRIM
21. PRE-FINISHED METAL HEADER TRIM
22. COLD ROLLED CHANNEL BY METAL BUILDING MANUFACTURER
23. COLD-FORMED TOP TRACK TO MATCH STUDS.
24. COLD-FORMED BOTTOM RUNNER TO MATCH STUDS.
25. STEEL BEAM; PROVIDED BY METAL BUILDING MANUFACTURER
26. STEEL ANGLE; PROVIDED BY METAL BUILDING MANUFACTURER
27. STEEL CHANNEL STRINGER (BY P.E.B.)
28. STEEL PLATE TREAD PANS AND RISERS
29. STRUCTURAL STEEL COLUMN; PROVIDED BY METAL BUILDING MANUFACTURER
30. 18 GA, 6" COLD ROLLED METAL JOISTS @ 16" O/C
31. 6" METAL STUD @ 24" O/C (18 GA. MIN.)
32. 3 5/8" METAL STUD @ 24" O/C (18 GA. MIN.)
33. 1 1/2" COLD-FORMED METAL CHANNEL MIN. 24" O/C.
34. 1 1/4" DIA STEEL STAIR RAILING
35. METAL COUNTER FLASH TO RUN OVER ROOF BASE FLASHING.
36. HAT CHANNELS
37. METAL GUTTER AND DOWN SPOUT WITH SPLASH BLOCK BELOW
38. INTERNAL METAL GUTTER (ALL SEAMS TO BE SOLDERED AT 30'-0" SECTIONS AND ALL JOINTS TO BE SOLDERED AND SEALED)
39. FASTENER
40. RAKE TRIM
41. GABLE ANGLE
42. DRIP MOULD
43. METAL BUILDING PANEL (BY P.E.B.)
44. GIRT PROVIDED BY METAL BUILDING MANUFACTURER
45. EAVE STRUT
46. METAL FLASHING AS SPECIFIED.
47. METAL U PANEL
48. METAL CLAD BRANDED ELEMENT BY SIGN MANUFACTURER.
49. J-MOULD TRIM AS SPECIFIED.
50. CEILING ANGLE TRIM AT WALL.
51. 5/8" EXT. GRADE FIRE RETARDANT PLYWOOD
52. RUBBER TREAD AND LANDING COVERS
53. 2x BLOCKING (FIRE RETARDANT)
54. FLEXIBLE FLASHING AS SPECIFIED.
55. FIBERGLASS BATT INSULATION (R11 IN 3 5/8" WALLS AND R19 IN 6" WALLS, W/ 4 MIL POLYETHYLENE VAPOR BARRIER BENEATH INTERIOR GYPSUM BOARD
56. NOT USED
57. SUSPENDED GYPSUM BOARD CEILING AS SCHEDULED.
58. SUSPENDED ACOUSTICAL CEILING AS SCHEDULED
59. SEALANT AS SPECIFIED.
60. CAULK AS SPECIFIED.
61. INSULATED STEEL OVERHEAD DOOR W/ INSULATED GLAZING PANEL WHERE INDICATED AND AS SPECIFIED.
62. INSULATED HOLLOW METAL MAN DOOR PAINTED AS SCHEDULED.
63. DOOR TRACK BY OVERHEAD DOOR. INSTALLER TO MATCH APPLICATION.
64. ALUMINUM STOREFRONT GLAZING SYSTEM W/ CLEAR ANODIZED FRAMES AND 1" INSULATED GLAZING AS SPECIFIED.
65. 5/8" EXTERIOR GYPSUM BOARD SHEATHING
66. 5/8" EXTERIOR GYPSUM SHEATHING W/ JOINTS TAPED.
67. 5/8" INTERIOR GYPSUM BOARD W/ JOINT TREATMENT AND FINISH AS SCHEDULED.
68. DOUBLE LAYER OF 1/2" FIRE CODE "G" GYPSUM BOARD W/ FIRE TAPE AND CAULK
69. ACCENT CHAMFER, RE DETAIL 19/A8.2
70. 5/8" FIRE CODE "G" GYPSUM BOARD W/ FIRE TAPE AND CAULK.
71. VINYL FACED R-11 INSULATION BETWEEN GIRTS
72. FIBERGLASS BATT ACOUSTICAL INSULATION AT RESTROOM, CONFERENCE ROOM WALLS AND WHERE SPECIFIED.
73. PARAPET WALL BEYOND.
74. INTERNAL DOWNSPOUT
75. STEEL BEAM WELDED TO EACH VERTICAL TS
76. 8" COLD ROLLED METAL STUDS @ 24' O/C, INFILLED BETWEEN T.S. BY P.E.B.
77. CMU WALL WITH INSULATION FILL AS INDICATED
78. GROUT FILLED BOND BEAM WITH REINFORCING, RE:STRUCTURAL
79. 1 1/2" MASONRY LUG IN FOUNDATION, RE:STRUCTURAL
80. CMU KNEE WALL WITH SOLID CAP
81. WEEP HOLES AT 2'-0" O/C
82. MASONRY CAVITY VENT AS SPECIFIED
83. MASTIC
84. METAL REGLET
85. SPRINGLOK FLASHING
86. SATELLITE SUPPORT DECK, RE: DETAILS ON SHEET A4.5
87. P.E.B. MANUFACTURER TO PROVIDE T.S. 8x4x1/4 @ 48" O/C FOR LIGHT GAUGE STEEL STUD SUPPORT



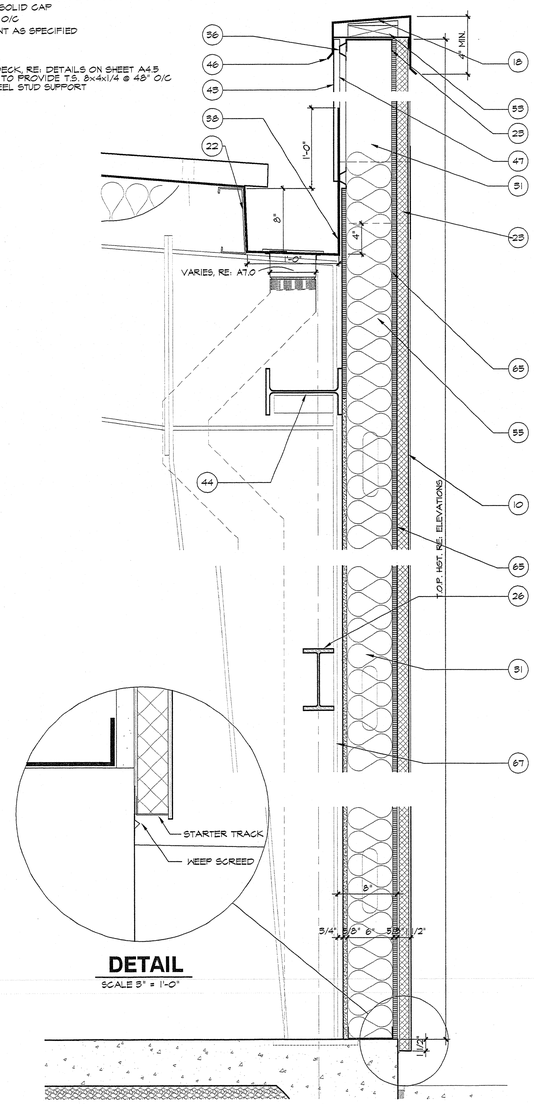
04 A4.2 **WALL SECTION @ EXPANSION**
SCALE 1 1/2" = 1'-0"



03 A4.2 **WALL SECTION @ TWO STORY OFFICE**
SCALE 1 1/2" = 1'-0"



02 A4.2 **WALL SECTION @ DRIVE CANOPY**
SCALE 1 1/2" = 1'-0"



DETAIL
SCALE 3" = 1'-0"

01 A4.2 **WALL SECTION @ SHOWROOM/SERVICE**
SCALE 1 1/2" = 1'-0"

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
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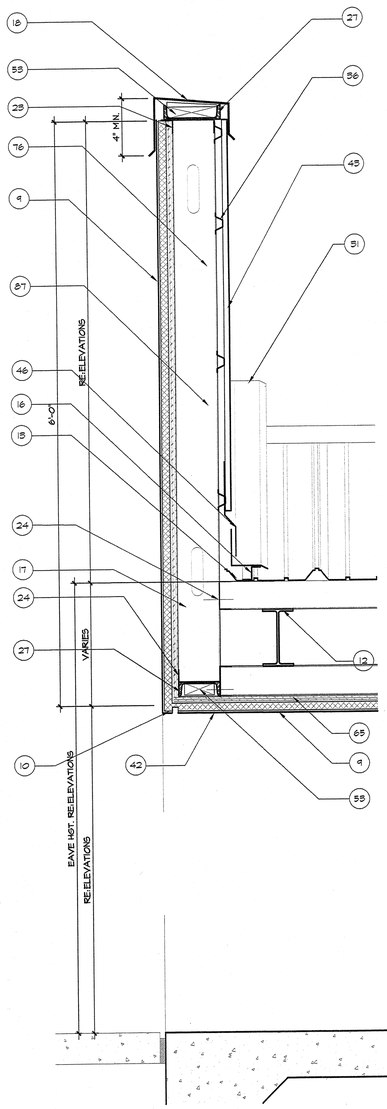
CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/18/02

DATE: 09/18/02
REVISION DATE:
PROJECT NO. 02008
SHEET NO.
A4.2

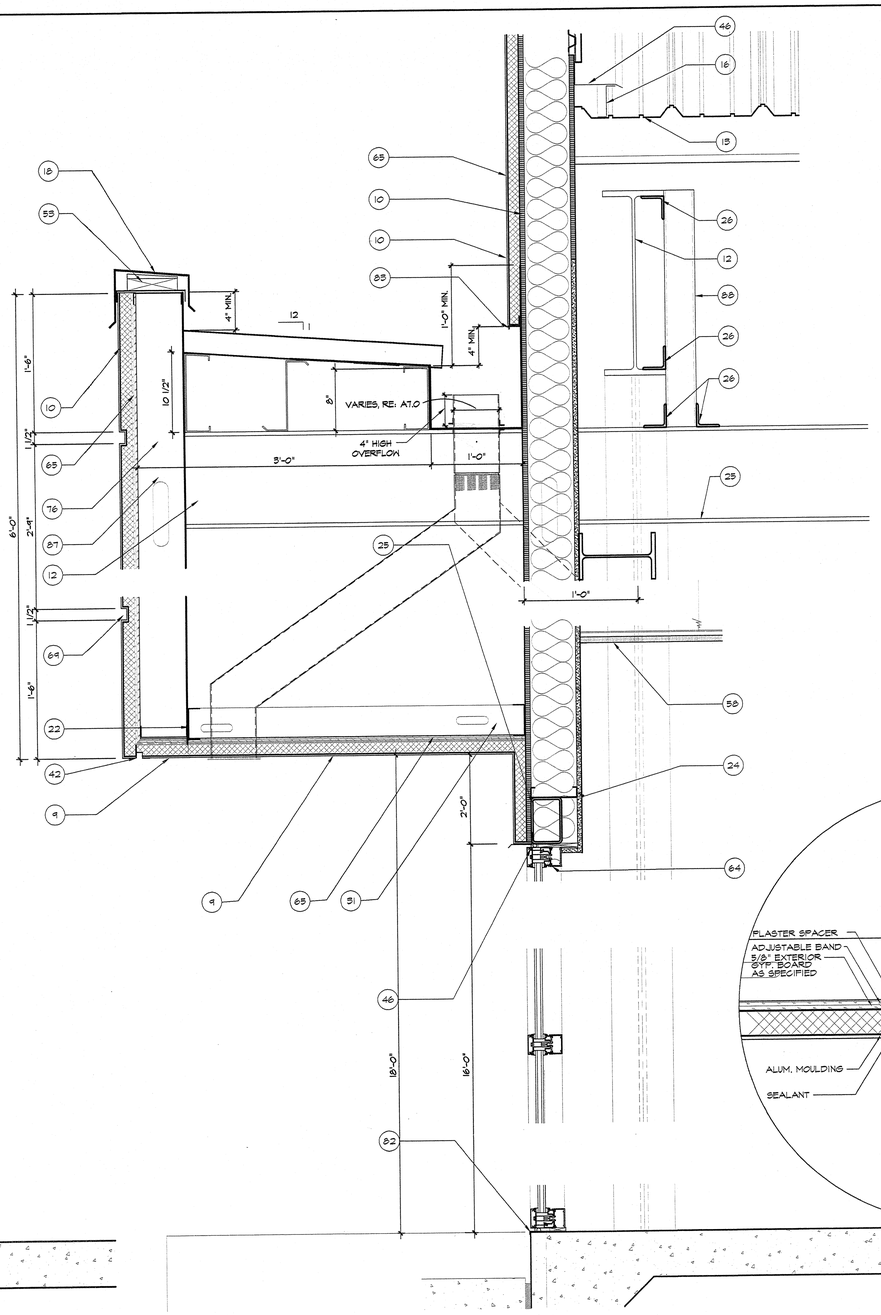
GENERAL NOTES

T.O.P. - TOP OF PARAPET HEIGHT THIS DIMENSION IS TO THE TOP OF STUD. BLOCKING AND PRE-FINISHED METAL PARAPET CAP ARE NOT INCLUDED IN THIS DIMENSION.



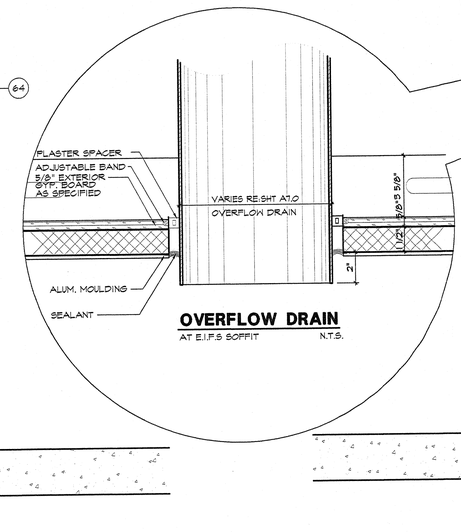
03 A4.3 WALL SECTION @ SHOWROOM CANOPY

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



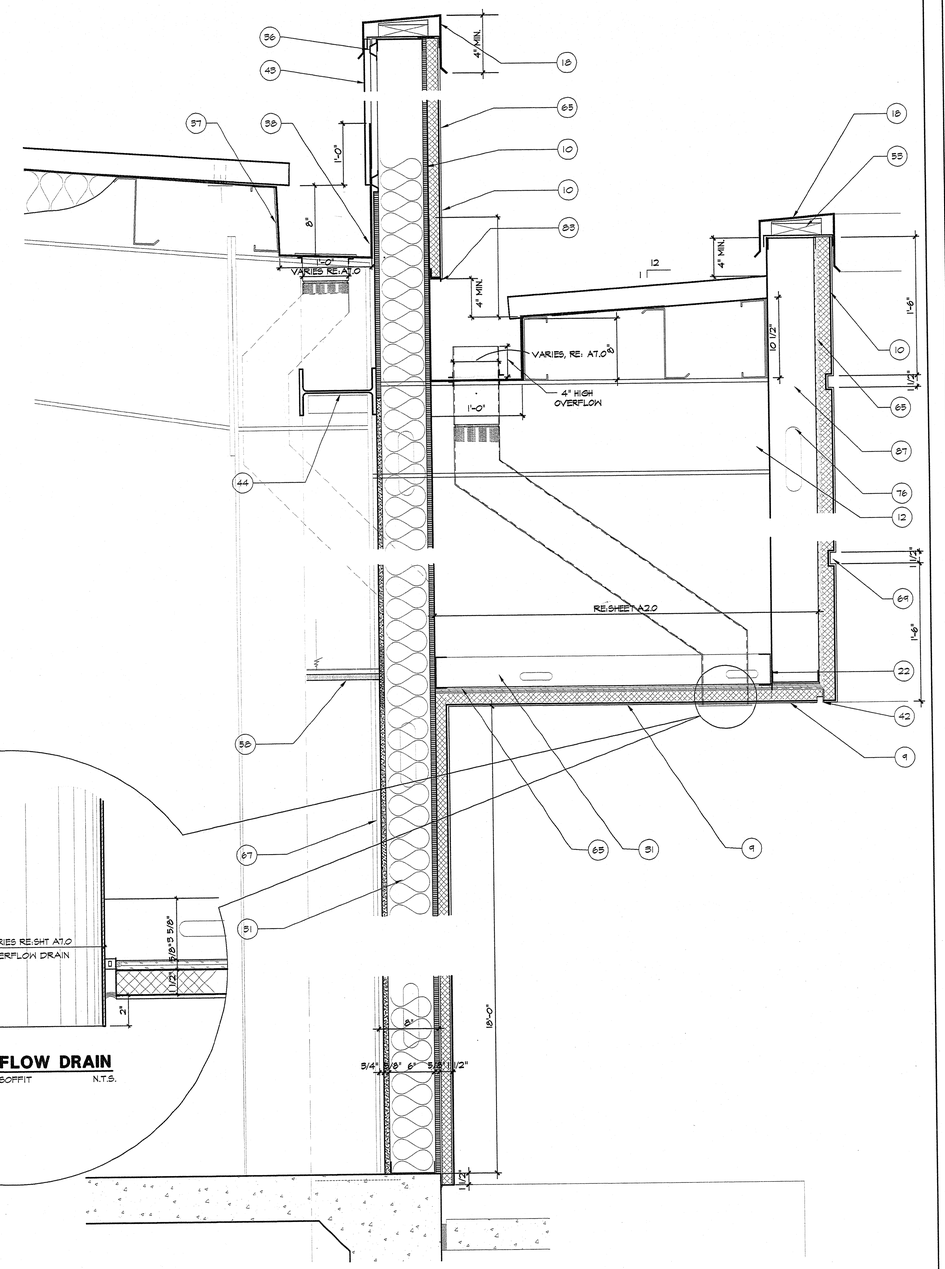
02 A4.3 WALL SECTION @ SHOWROOM CANOPY

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



OVERFLOW DRAIN

AT E.I.F.S SOFFIT N.T.S.



01 A4.3 WALL SECTION @ SHOWROOM CANOPY

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

NOTES (ALL NOTES MAY NOT APPLY)

1. CONCRETE FOUNDATION SLAB; RE: STRUCTURAL.
2. CONCRETE FILLED PIPE BOLLARD.
3. EXPANSION JOINT FILLER AS SPECIFIED
4. FLUSH SIDEWALK AT DOOR THRESHOLD ONLY W/ 1/8" PER FOOT SLOPED AWAY FROM BUILDING IN ALL DIR.
5. CONCRETE FLOOR DECK ON METAL DECKING; RE: STRUCTURAL.
6. CONCRETE FILLED TREAD
7. CONCRETE RETAINING WALL AT LOADING DOCK
8. CONCRETE LOADING DOCK
9. EIFS SOFFIT AS SPECIFIED
10. EIFS WALL SYSTEM AS SPECIFIED
11. EIFS COLUMNS
12. P.E.B. FRAME BY METAL BUILDING MANUFACTURER.
13. METAL PANEL ROOF AS SPECIFIED.
14. "Z" PERLIN BY METAL BUILDING MANUFACTURER.
15. WHITE VINYL-FACED R19 BATT INSULATION BETWEEN ROOF PERLIN AND P.E.B. FRAME.
16. PRE-FINISHED METAL CLOSURE.
17. PRE-FINISHED METAL EAVE CLOSURE TRIM.
18. PRE-FINISHED BREAK METAL PARAPET CAP W/ DRIP EDGE BOTH SIDES.
19. NOT USED
20. PRE-FINISHED METAL BASE TRIM
21. PRE-FINISHED METAL HEADER TRIM
22. COLD ROLLED CHANNEL BY METAL BUILDING MANUFACTURER
23. COLD-FORMED TOP TRACK TO MATCH STUDS.
24. COLD-FORMED BOTTOM RUNNER TO MATCH STUDS.
25. STEEL BEAM; PROVIDED BY METAL BUILDING MANUFACTURER
26. STEEL ANGLE; PROVIDED BY METAL BUILDING MANUFACTURER
27. STEEL CHANNEL STRINGER (BY P.E.B.)
28. STEEL PLATE TREAD PANS AND RISERS
29. STRUCTURAL STEEL COLUMN; PROVIDED BY METAL BUILDING MANUFACTURER
30. 18 GA., 6" COLD ROLLED METAL JOISTS @ 16" O/C
31. 6" METAL STUD @ 24" O/C (18 GA. MIN.)
32. 3 5/8" METAL STUD @ 24" O/C (18 GA. MIN.)
33. 1 1/2" COLD-FORMED METAL CHANNEL MIN. 24" O/C.
34. 1 1/4" DIA. STEEL STAIR RAILING
35. METAL GUTTER FLASH TO RUN OVER ROOF BASE FLASHING.
36. HAT CHANNELS
37. METAL GUTTER AND DOWN SPOUT WITH SPLASH BLOCK BELOW
38. INTERNAL METAL GUTTER (ALL SEAMS TO BE SOLDERED AT 30'-0" SECTIONS AND ALL JOINTS TO BE SOLDERED AND SEALED)
39. FASTENER
40. RAKE TRIM
41. GABLE ANGLE
42. DRIP MOULD
43. METAL BUILDING PANEL (BY P.E.B.)
44. GIRT PROVIDED BY METAL BUILDING MANUFACTURER
45. EAVE STRUT
46. METAL FLASHING AS SPECIFIED.
47. METAL U PANEL
48. METAL CLAD BRANDED ELEMENT BY SIGN MANUFACTURER.
49. J-MOULD TRIM AS SPECIFIED.
50. CEILING ANGLE TRIM AT WALL
51. 5/8" EXT. GRADE FIRE RETARDANT PLYWOOD
52. RUBBER TREAD AND LANDING COVERS
53. 2x BLOCKING (FIRE RETARDANT)
54. FLEXIBLE FLASHING AS SPECIFIED.
55. FIBERGLASS BATT INSULATION (R11 IN 3 5/8" WALLS AND R19 IN 6" WALLS, W/ 4 MIL POLYETHYLENE VAPOR BARRIER BENEATH INTERIOR GYPSUM BOARD
56. NOT USED
57. SUSPENDED GYPSUM BOARD CEILING AS SCHEDULED.
58. SUSPENDED ACOUSTICAL CEILING AS SCHEDULED
59. SEALANT AS SPECIFIED.
60. CAULK AS SPECIFIED.
61. INSULATED STEEL OVERHEAD DOOR W/ INSULATED GLAZING PANEL WHERE INDICATED AND AS SPECIFIED.
62. INSULATED HOLLOW METAL MAN DOOR PAINTED AS SCHEDULED.
63. DOOR TRACK BY OVERHEAD DOOR INSTALLER TO MATCH APPLICATION.
64. ALUMINUM STOREFRONT GLAZING SYSTEM W/ CLEAR ANODIZED FRAMES AND 1" INSULATED GLAZING AS SPECIFIED.
65. 5/8" EXTERIOR GYPSUM BOARD SHEATHING
66. 5/8" EXTERIOR GYPSUM SHEATHING W/ JOINTS TAPED.
67. 5/8" INTERIOR GYPSUM BOARD W/ JOINT TREATMENT AND FINISH AS SCHEDULED.
68. DOUBLE LAYER OF 1/2" FIRE CODE "C" GYPSUM BOARD W/ FIRE TAPE AND CAULK
69. ACCENT CHAMFER, RE DETAIL 19/A8.2
70. 5/8" FIRE CODE "C" GYPSUM BOARD W/ FIRE TAPE AND CAULK.
71. VINYL FACED R-11 INSULATION BETWEEN GIRTS
72. FIBERGLASS BATT ACOUSTICAL INSULATION AT RESTROOM, CONFERENCE ROOM WALLS AND WHERE SPECIFIED.
73. PARAPET WALL BEYOND.
74. INTERNAL DOWNSPOUT
75. STEEL BEAM WELDED TO EACH VERTICAL TS
76. 8" COLD ROLLED METAL STUDS @ 24" O/C, INFILLED BETWEEN T.S. BY P.E.B.
77. CMU WALL WITH INSULATION FILL AS INDICATED
78. GROUT FILLED BOND BEAM WITH REINFORCING, RE:STRUCTURAL
79. 1 1/2" MASONRY LUG IN FOUNDATION, RE:STRUCTURAL
80. CMU KNEE WALL WITH SOLID CAP
81. WEEP HOLES AT 2'-0" O/C
82. MASONRY CAVITY VENT AS SPECIFIED
83. MASTIC
84. METAL REGLET
85. SPRINGLOK FLASHING
86. SATELLITE SUPPORT DECK, RE: DETAILS ON SHEET A4.3
87. P.E.B. MANUFACTURER TO PROVIDE T.S. 8x4x1/4 @ 48" O/C FOR LIGHT GAUGE STEEL STUD SUPPORT
88. T.S. SUPPORTS FOR STEEL BEAM

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 933 GEORGETOWN, TX 78627
(512) 930-3353 FAX (512) 930-2818 www.eai-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/19/02

DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO. A4.3

NOTES (ALL NOTES MAY NOT APPLY)

1. CONCRETE FOUNDATION SLAB; RE: STRUCTURAL.
2. CONCRETE FILLED PIPE BOLLARD.
3. EXPANSION JOINT FILLER AS SPECIFIED
4. FLUSH SIDEWALK AT DOOR THRESHOLD ONLY W/ 1/8" PER FOOT SLOPED AWAY FROM BUILDING IN ALL DIR.
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33. 1 1/2" COLD-FORMED METAL CHANNEL MIN. 24" O/C.
34. 1 1/4" DIA. STEEL STAIR RAILING
35. METAL COUNTER FLASH TO RUN OVER ROOF BASE FLASHING.
36. HAT CHANNELS
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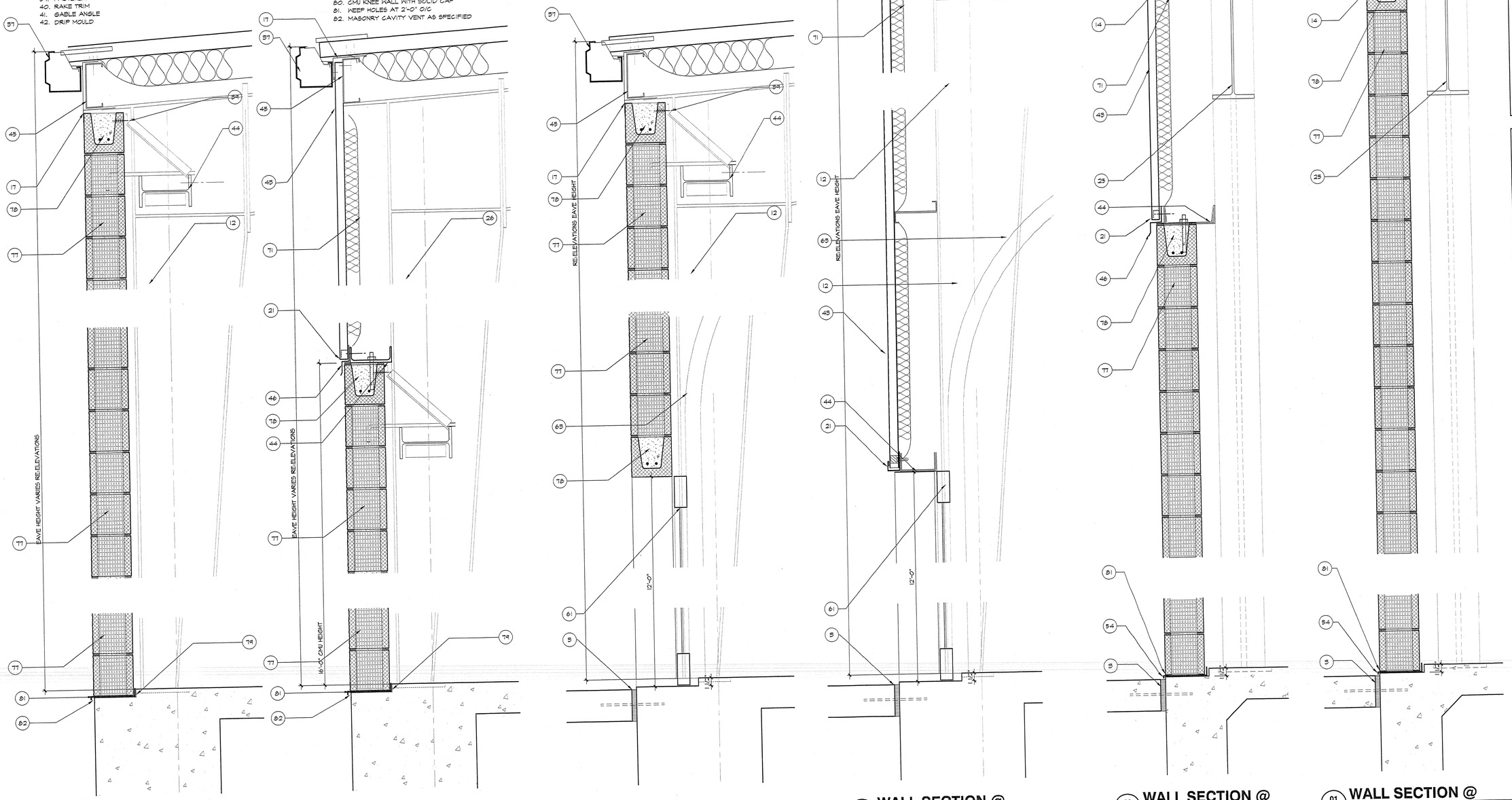
83. MASTIC
84. METAL REGLET
85. SPRINGLOK FLASHING
86. SATELLITE SUPPORT DECK, RE: DETAILS ON SHEET A4.5
87. P.E.B. MANUFACTURER TO PROVIDE T.S. 8x4x1/4 @ 48" O/C FOR LIGHT GAUGE STEEL STUD SUPPORT



06 A4.4 WALL SECTION @ WASH BAY SCALE 1 1/2" = 1'-0"

05 A4.4 WALL SECTION @ WASH BAY SCALE 1 1/2" = 1'-0"

04 A4.4 WALL SECTION @ SERVICE AREA SCALE 1 1/2" = 1'-0"

03 A4.4 WALL SECTION @ SERVICE AREA SCALE 1 1/2" = 1'-0"

02 A4.4 WALL SECTION @ SERVICE AREA SCALE 1 1/2" = 1'-0"

01 A4.4 WALL SECTION @ SERVICE AREA SCALE 1 1/2" = 1'-0"

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ELSASSER ARCHITECTURAL INC.
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(512) 930-3353 FAX (512) 930-3818 www.eai-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT STEVEN M. ELSASSER 3338 STATE OF TEXAS
09/18/02

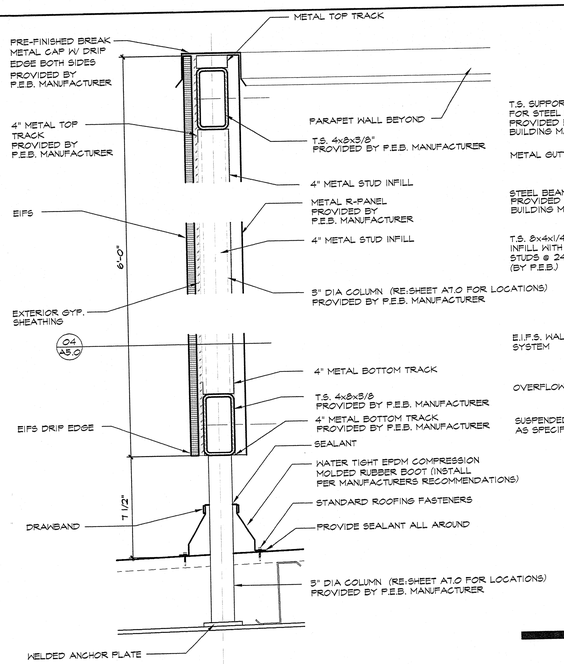
DATE: 09/18/02

REVISION DATE:

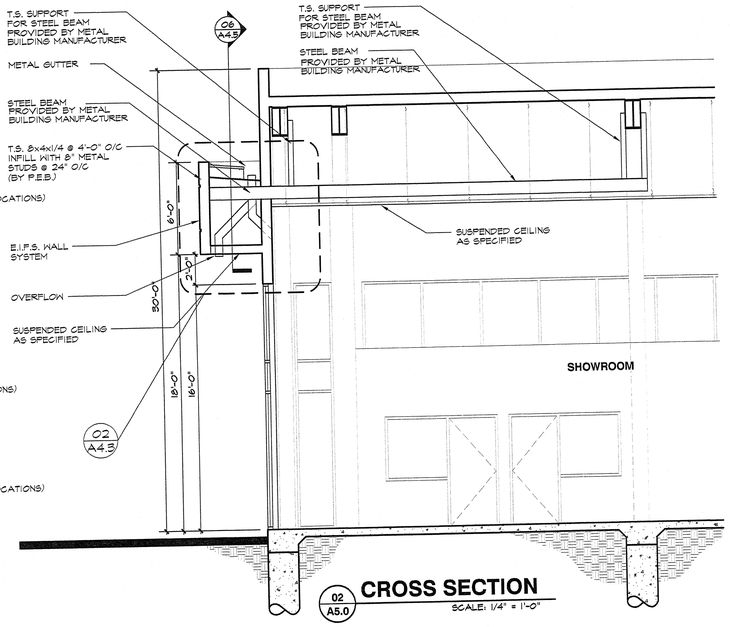
PROJECT NO. 02008

SHEET NO.

A4.4



01 A5.0 **PARAPET WALL DETAIL**
SCALE: 3" = 1'-0"



02 A5.0 **CROSS SECTION**
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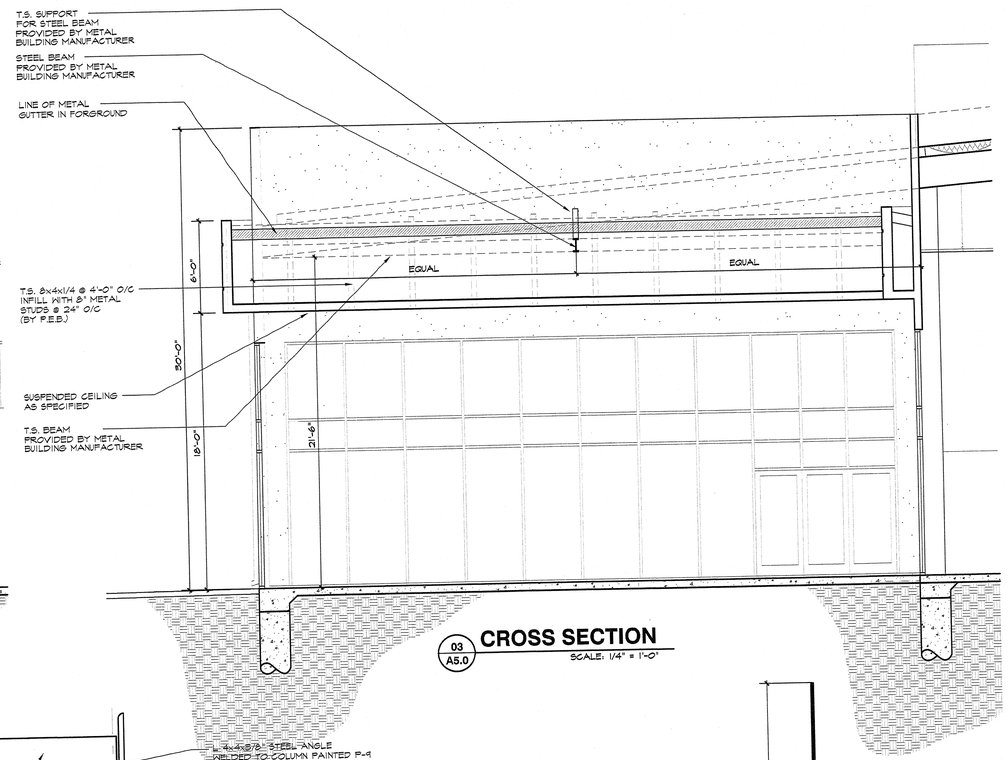
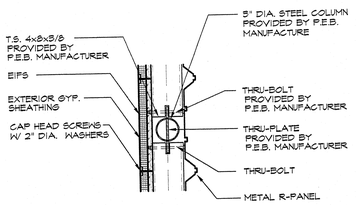
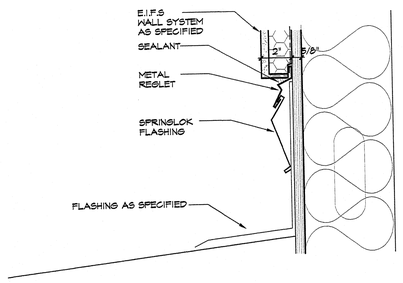


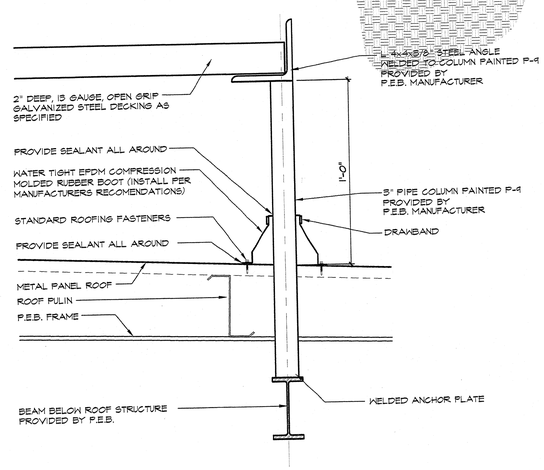
03 A5.0 **CROSS SECTION**
SCALE: 1/4" = 1'-0"



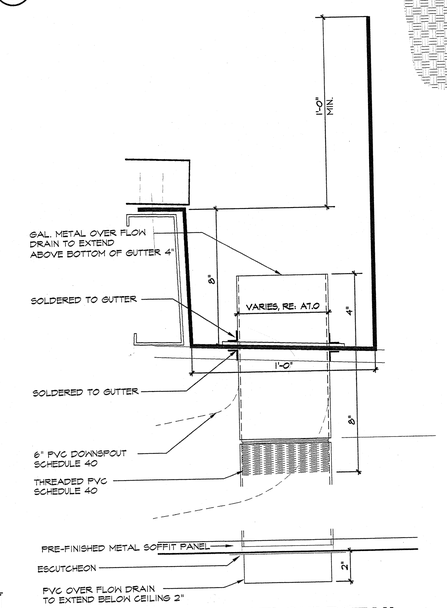
04 A5.0 **PLAN VIEW**
SCALE: 3" = 1'-0"



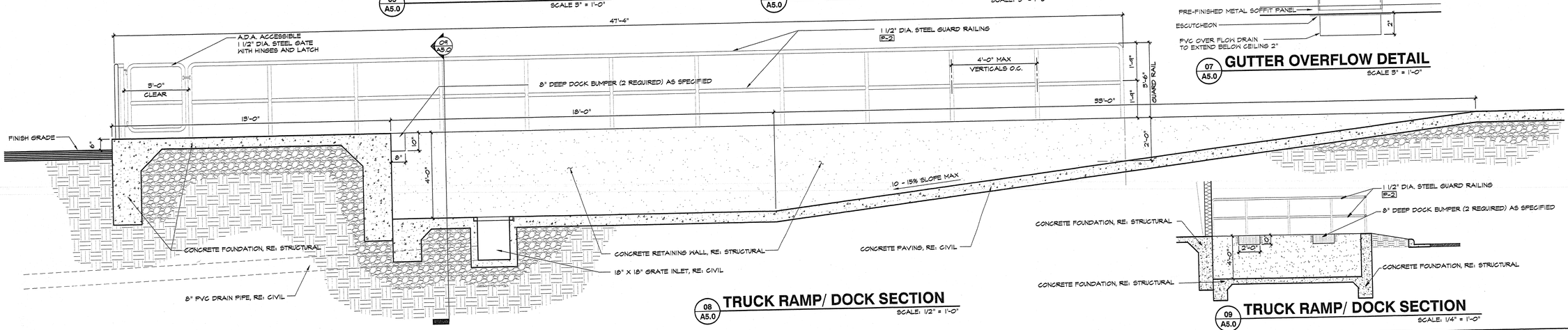
05 A5.0 **E.I.F.S. FLASHING AT ROOF**
SCALE 3" = 1'-0"



06 A5.0 **SATLELITE SUPPORT DECK DETAIL**
SCALE: 3" = 1'-0"



07 A5.0 **GUTTER OVERFLOW DETAIL**
SCALE 3" = 1'-0"



08 A5.0 **TRUCK RAMP/ DOCK SECTION**
SCALE: 1/2" = 1'-0"

09 A5.0 **TRUCK RAMP/ DOCK SECTION**
SCALE: 1/4" = 1'-0"

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INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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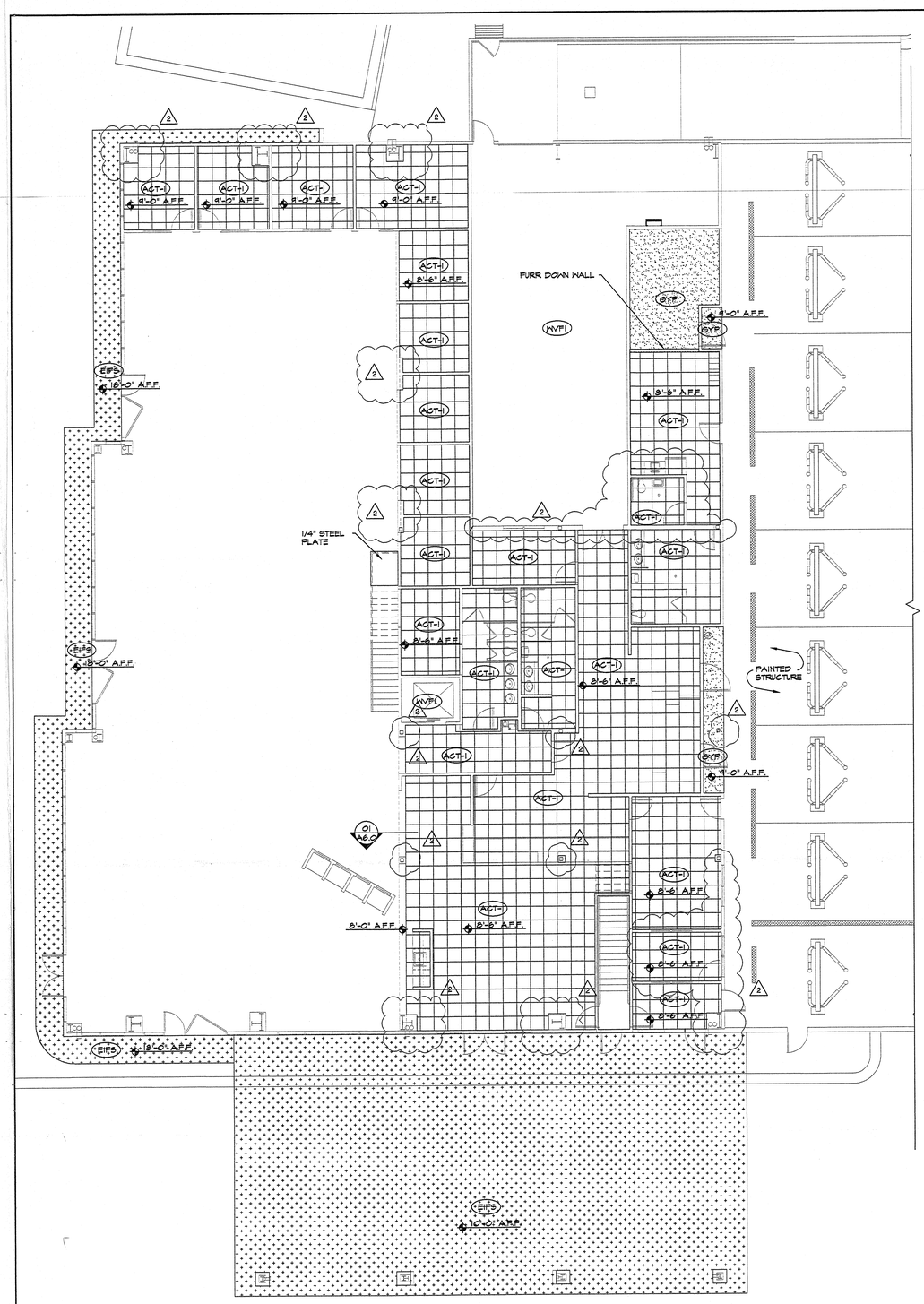
P.O. BOX 983 GEORGETOWN, TX 78627
(512) 930-3800 FAX: (512) 930-3818 www.eaiinc.com

CONSULTANT INFORMATION:

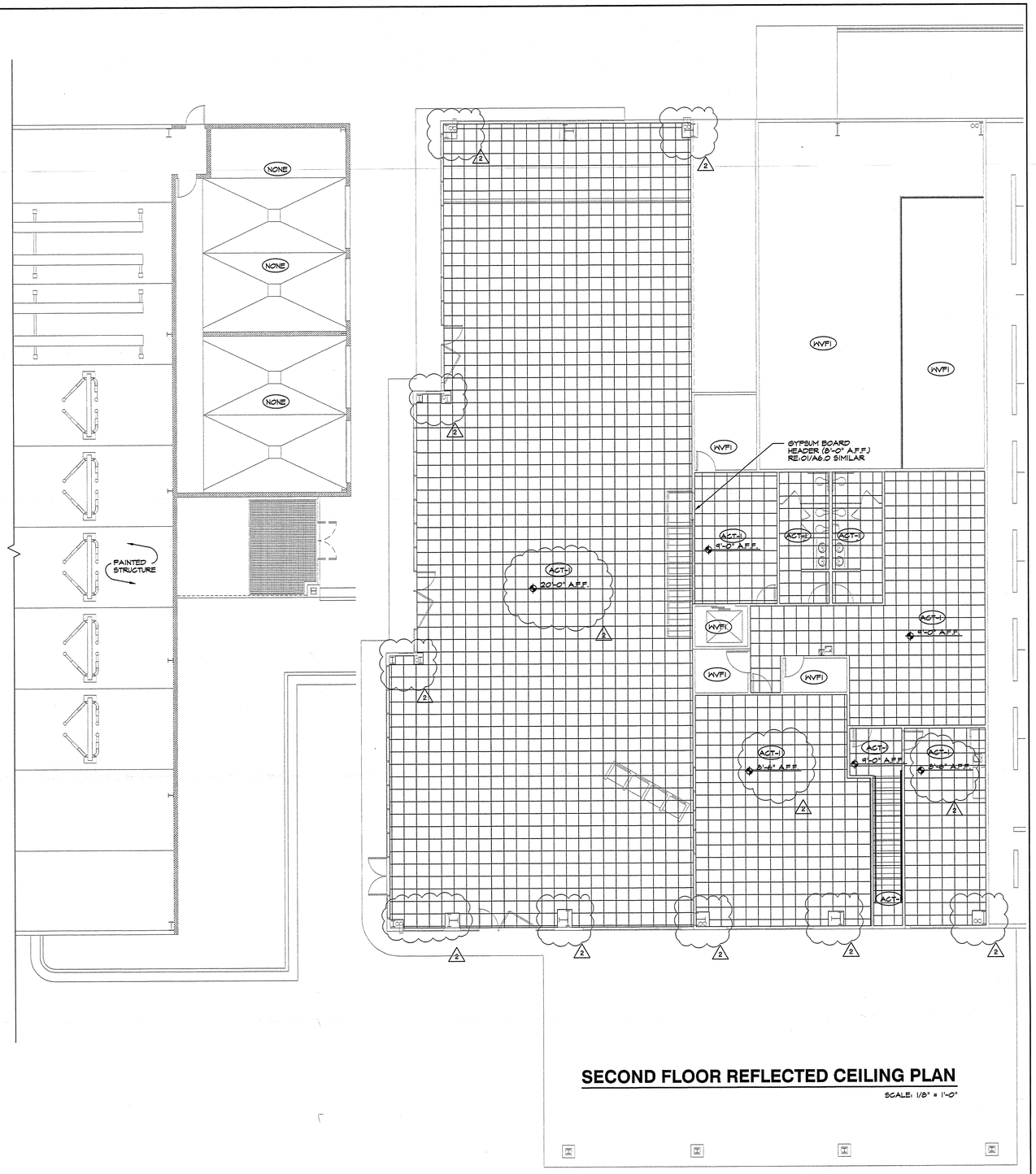
REGISTERED ARCHITECT
09/19/02

DATE: 09/18/02
REVISION DATE:
PROJECT NO. 02008
SHEET NO. A5.0



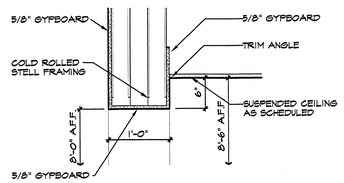
FIRST FLOOR REFLECTED CEILING PLAN

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



SECOND FLOOR REFLECTED CEILING PLAN

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



01 A6.0 **FURRDOWN SECTION**

SCALE: 1" = 1'-0"

LEGEND		
MARK	SYMBOL	DESCRIPTION
ACT-I		ACT-I ACOUSTICAL CEILING (2'x2') AS SPECIFIED
MVFI		WHITE VINYL FACED INSULATION (TO LAY BETWEEN "Z" PURLIN AND ROOF PANEL
GYP		PAINTED GYPSUM BOARD CEILING (FINISH AS SCHEDULED)
EIFS		E.I.F.S. SOFFIT (FINISHED AS SPECIFIED)
NONE		NO CEILING (LEAVE CEILING EXPOSED TO DECK ABOVE)

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
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P.O. BOX 3333 GEORGETOWN, TX 78627
(512) 930-3333 FAX (512) 930-3318 www.esai-tx.com

REV. #	DESCRIPTION	DATE
2	REVISED CEILING HEIGHTS AND GRID LAYOUT TO ACCOMODATE FEB STEEL STRUCTURE	04/16/03

REGISTERED ARCHITECT — STATE OF TEXAS

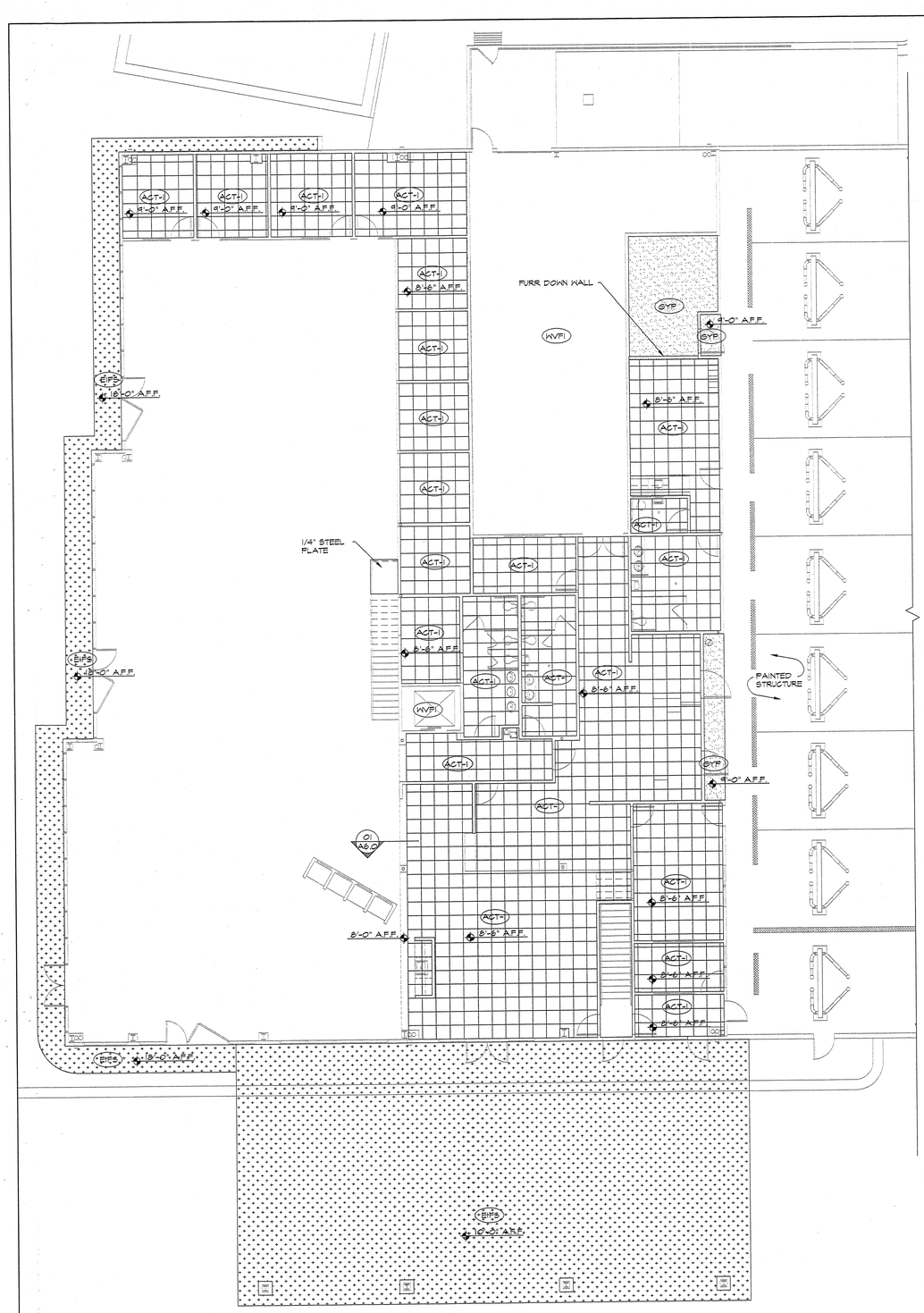
04/17/03

DATE: 09/18/02

PROJECT NO. 02008

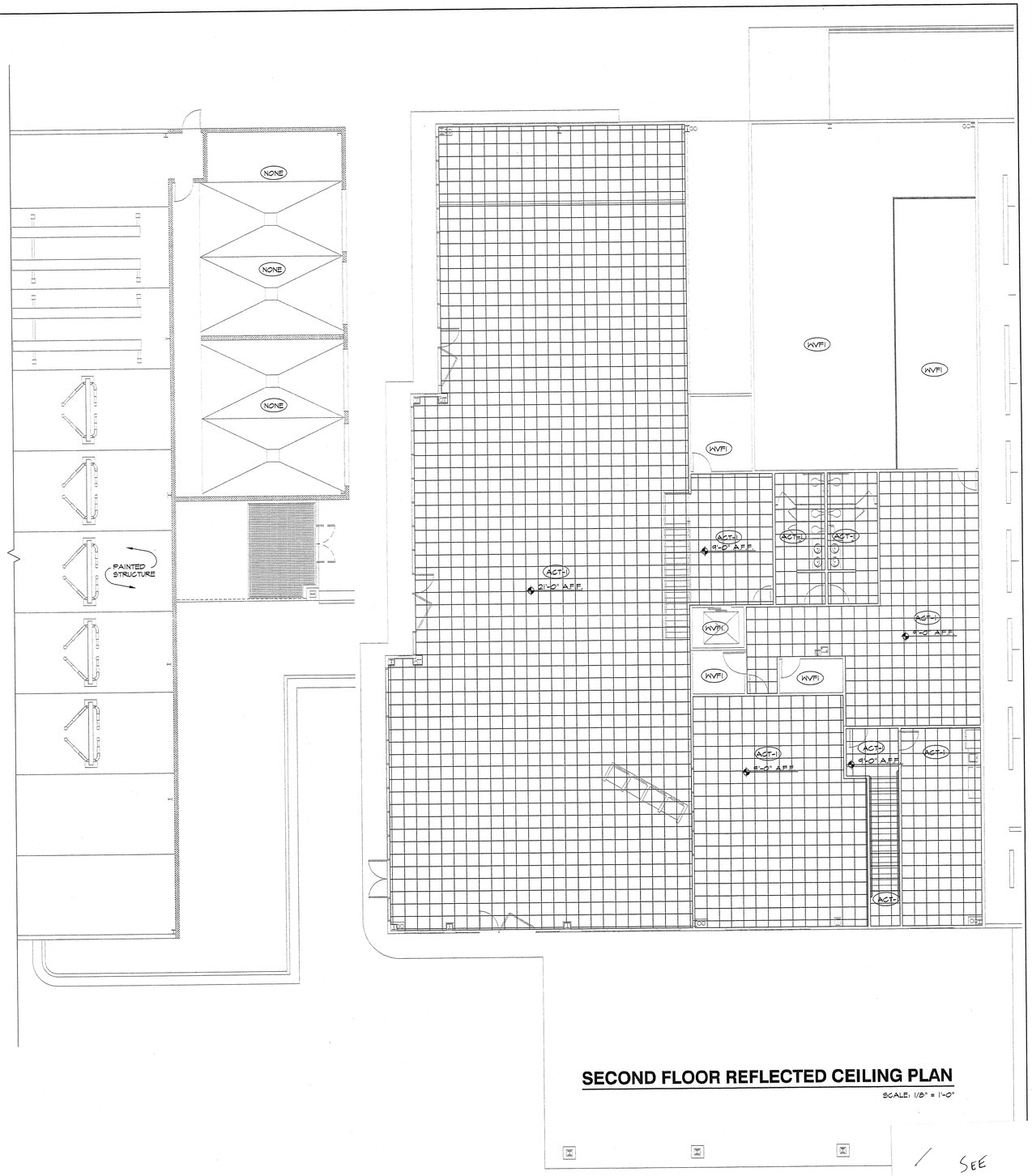
SHEET NO.

A6.0



FIRST FLOOR REFLECTED CEILING PLAN

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



SECOND FLOOR REFLECTED CEILING PLAN

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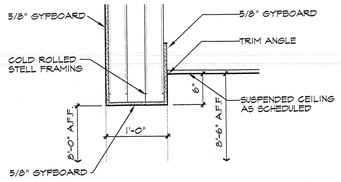


01 A6.0 FURRDOWN SECTION

SCALE: 1" = 1'-0"

LEGEND		
MARK	SYMBOL	DESCRIPTION
ACT-1		ACT-1 ACOUSTICAL CEILING (2'x2') AS SPECIFIED
KVFI		WHITE VINYL FACED INSULA (TO LAY BETWEEN "Z" FURL
GYP		PAINTED GYPSUM BOARD C (FINISH AS SCHEDULED)
EIFS		E.I.F.S. SOFFIT (FINISHED AS SPECIFIED)
NONE		NO CEILING (LEAVE CEILING EXPOSED T

SEE REVISED

ROGER BEASLEY VOLVO

AN AUTOMOTIVE DEALERSHIP

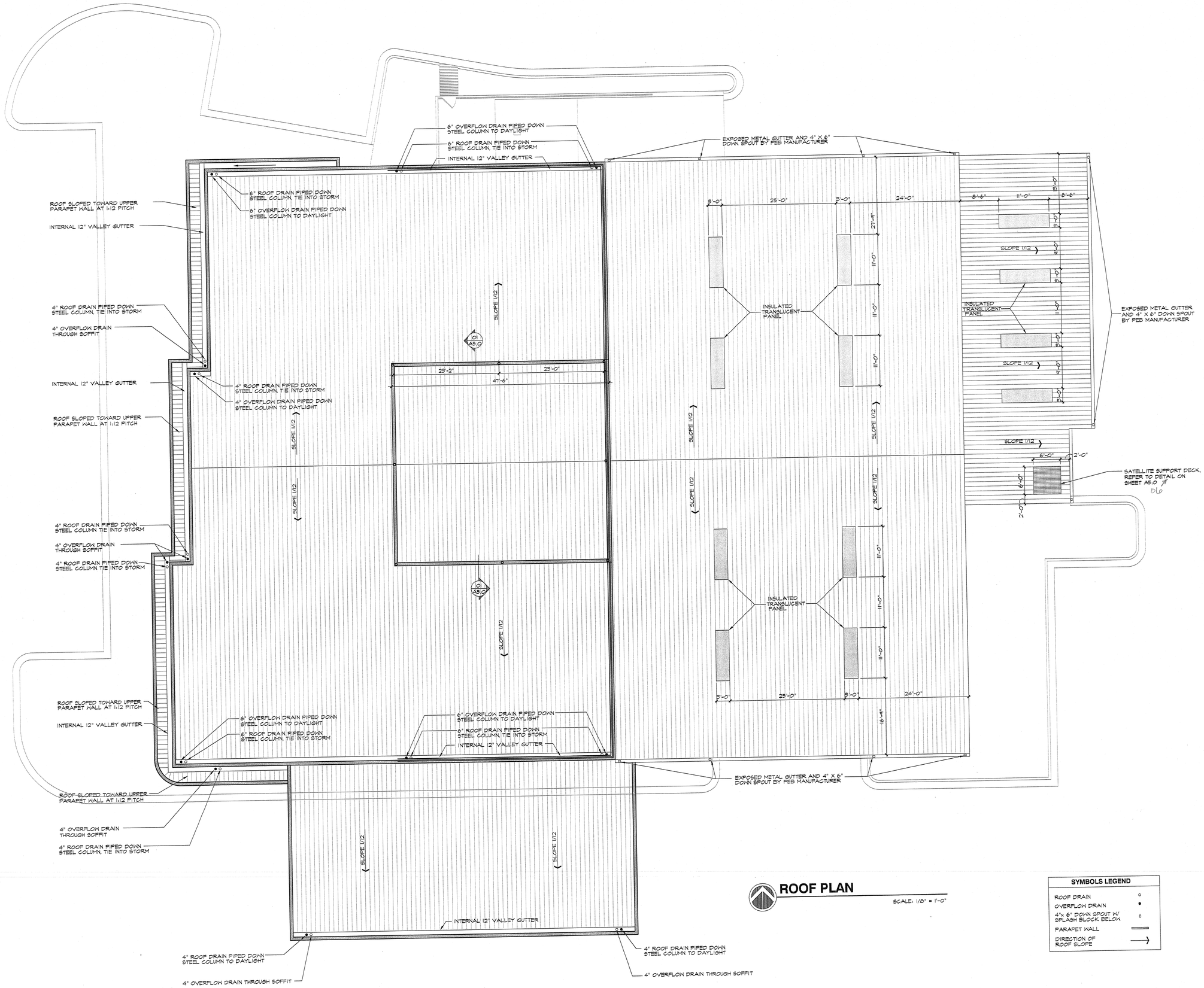
INTERSTATE HIGHWAY 35 SOUTH

GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 933 GEORGETOWN, TX 78627
(512) 930-3353 FAX (512) 930-3019 www.eai-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT



ROOF PLAN

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

SYMBOLS LEGEND

ROOF DRAIN	○
OVERFLOW DRAIN	●
4"x 6" DOWN SPOUT W/ SPLASH BLOCK BELOW	▯
PARAPET WALL	═══
DIRECTION OF ROOF SLOPE	⟶

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

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(512) 930-5353 FAX (512) 930-2618 www.ea-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/18/02

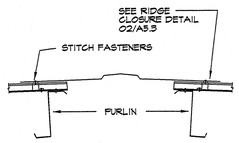
DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

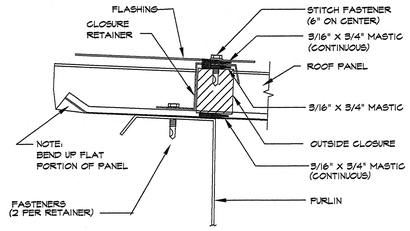
SHEET NO.

A7.0



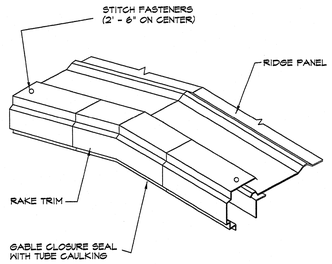
PEAK DETAIL

SCALE: N.T.S.



RIDGE CLOSURE DETAIL

SCALE: N.T.S.



RAKE TRIM DETAIL

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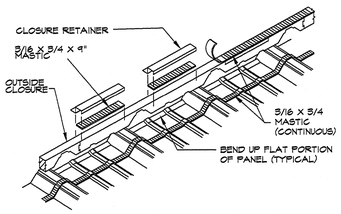
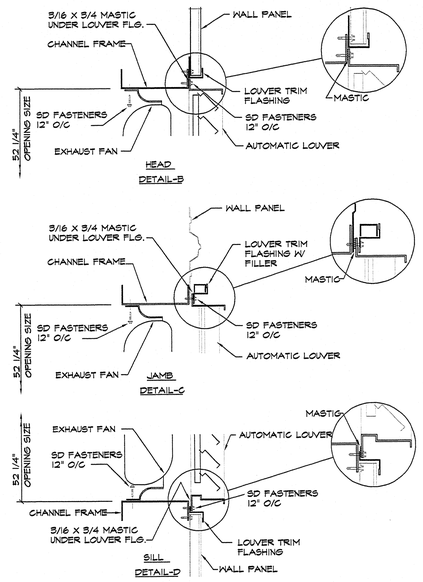


CLOSURE INSTALLATION

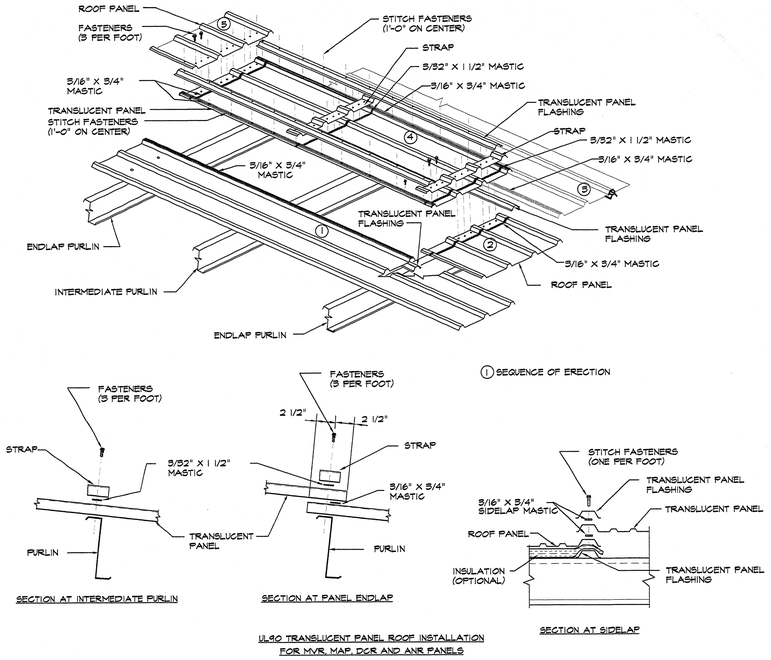
SCALE: N.T.S.



EXHAUST FAN AND AUTOMATIC LOUVER

INSTALLATION DETAILS

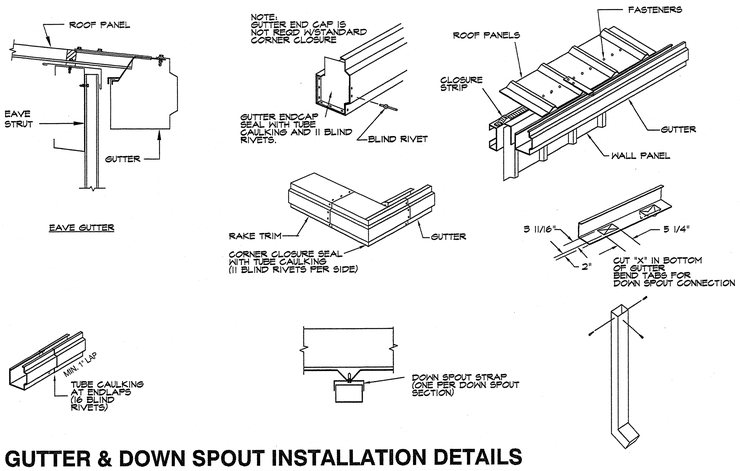
SCALE: N.T.S.



UL90 TRANSLUCENT PANEL ROOF INSTALLATION FOR MVR, MAP, DGR AND ANR PANELS

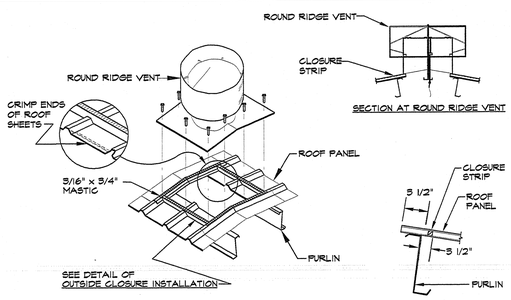
SKYLIGHT PANEL DETAILS

SCALE: N.T.S.



GUTTER & DOWN SPOUT INSTALLATION DETAILS

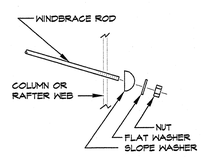
SCALE: N.T.S.



ROUND VENT INSTALLATION DETAIL

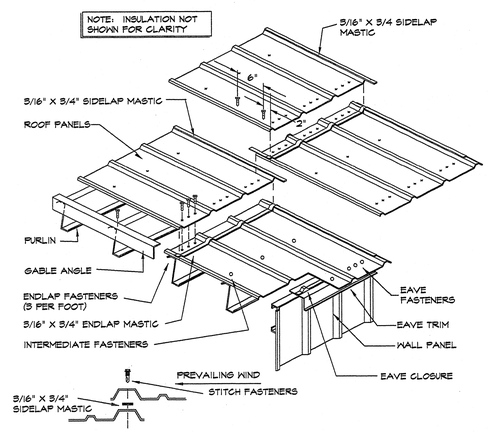
CHIMNEY PIPE VENT SIM.

SCALE: N.T.S.



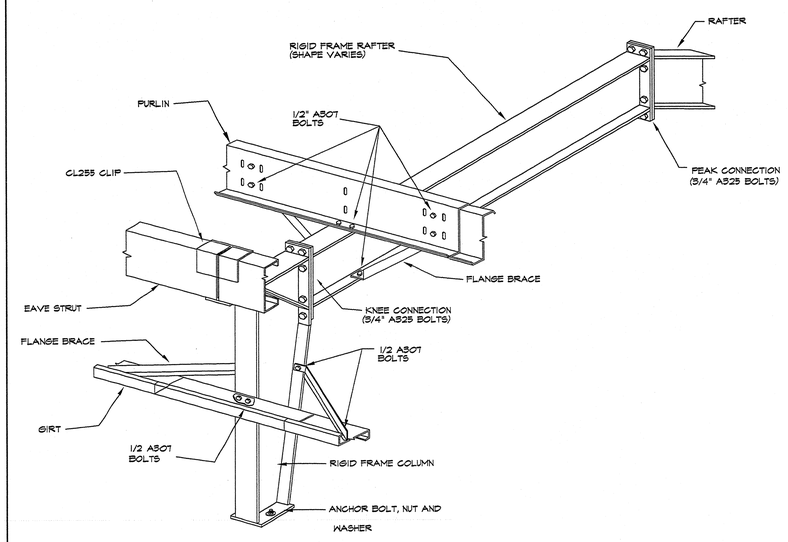
ROD BRACING

SCALE 3" = 1'-0"



PANEL ROOF INSTALLATION DETAIL

SCALE: N.T.S.



RIGID FRAME DETAIL

SCALE: N.T.S.

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CONSULTANT INFORMATION:

REGISTERED ARCHITECT

09/19/02

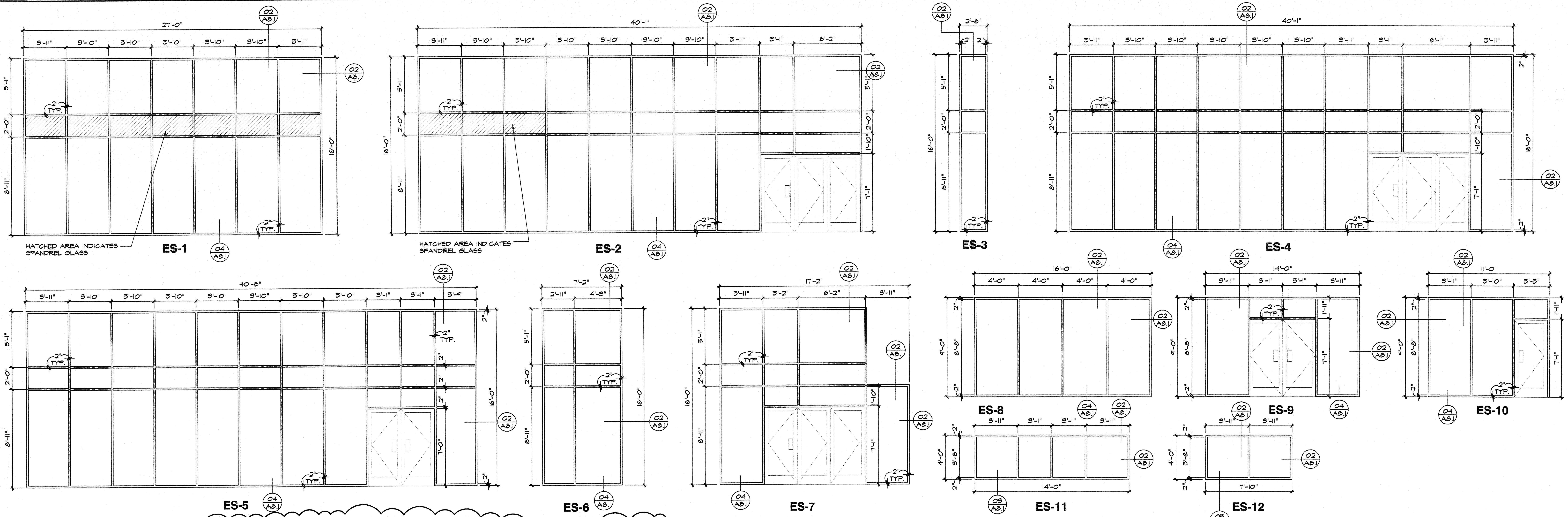
DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO.

A7.1



EXTERIOR STOREFRONT ELEVATIONS

SCALE 1/4" = 1'-0"

DOOR SCHEDULE - FIRST FLOOR

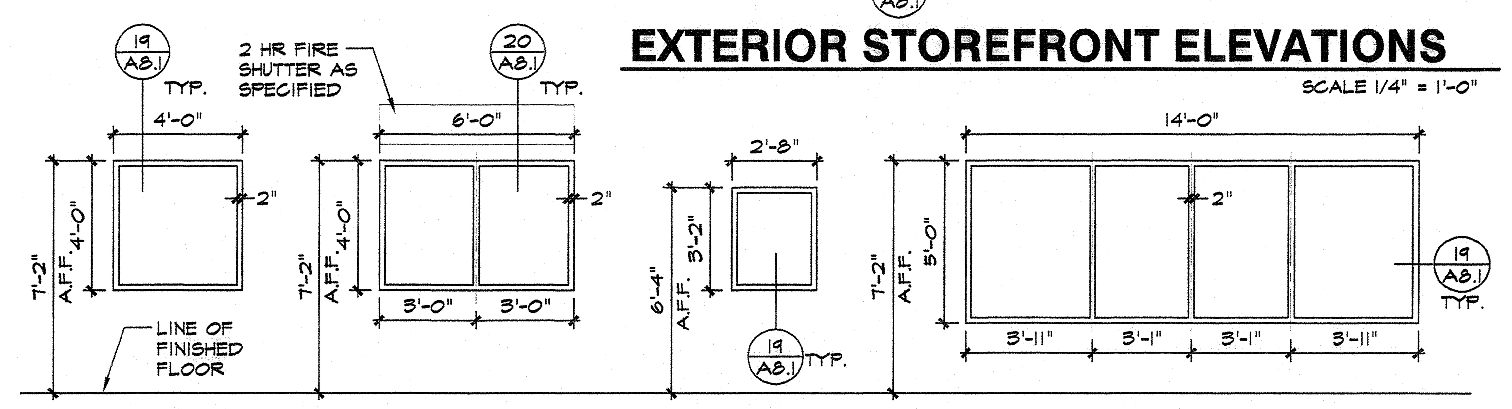
NUMBER	SIZE	DOOR TYPE	MATL	THICK	FINISH	RATING	FRAME TYPE	FRAME MATL	FRAME FINISH	JAMB DETAIL	HEAD DETAIL	SILL DETAIL	NOTES
D101	(2)3070	E	ALUMIN	1 3/4"	AS SPECIFIED	N/A	2	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D102	3070/6070	D	ALUMIN	1 3/4"	AS SPECIFIED	N/A	1	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D103	(2)3070	E	ALUMIN	1 3/4"	AS SPECIFIED	N/A	2	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D104	3070/6070	D	ALUMIN	1 3/4"	AS SPECIFIED	N/A	1	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D105	3070/6070	D	ALUMIN	1 3/4"	AS SPECIFIED	N/A	1	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D106	3070	J	S.W.	1 3/4"	P-2	N/A	6	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D107	3070	J	S.W.	1 3/4"	P-2	N/A	7	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D108	3070	J	S.W.	1 3/4"	P-2	N/A	6	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D109	3070	J	S.W.	1 3/4"	P-2	N/A	8	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D110	3070	N/A	STL	1 3/4"	P-2	.75 HR "C" LABEL	N/A	STL.	P-2	N/A	N/A	N/A	-
D111	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D112	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	011/A8.1	15/A8.1	-
D113	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D114	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D115	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D116	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	07/A8.1	07/A8.1	09/A8.1	-
D117	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D118	3070	F	ALUMIN	1 3/4"	AS SPECIFIED	N/A	3	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D119	3070	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D120	3070	F	ALUMIN	1 3/4"	AS SPECIFIED	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D121	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D122	3070	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D123	3670	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	10	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D124	4070	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	11	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D125	(2)3070	L	HM	1 3/4"	P-2	1.5 HR "B" LABEL	12	HM	P-2	11/A8.1	11/A8.1	14/A8.1	-
D126	3070	K	HM	1 3/4"	P-2	N/A	9	HM	P-2	11/A8.1	11/A8.1	15/A8.1	-
D127	3070	J	S.W.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D128	3070	J	S.W.	1 3/4"	AS SPECIFIED	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D129	3070	H	H.M.	1 3/4"	AS SPECIFIED	N/A	9	H.M.	P-2	11/A8.1	11/A8.1	14/A8.1	-
D130	3670	G	H.M.	1 3/4"	P-2	N/A	10	H.M.	P-2	11/A8.1	11/A8.1	14/A8.1	-
D131	8'X10'	C	STL.	1 3/4"	P-2	N/A	N/A	STL.	P-2	24/A8.1	24/A8.1	18/A8.1	-
D132	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	07/A8.1	07/A8.1	09/A8.1	-
D133	18'X12'	A	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	16/A8.1	16/A8.1	18/A8.1	-
D134	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	06/A8.1	06/A8.1	09/A8.1	-
D135	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	06/A8.1	06/A8.1	14/A8.1	-
D136	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D137	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D138	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D139	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D140	18'x12'	A	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	16/A8.1	16/A8.1	18/A8.1	-
D141	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	08/A8.1	08/A8.1	09/A8.1	-

DOOR SCHEDULE - SECOND FLOOR

NUMBER	SIZE	DOOR TYPE	MATL	THICK	FINISH	RATING	FRAME TYPE	FRAME MATL	FRAME FINISH	JAMB DETAIL	HEAD DETAIL	SILL DETAIL	NOTES
D200	3070	J	H.M.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D201	3070	N/A	STL.	1 3/4"	P-2	.75 HR "C" LABEL	N/A	N/A	AS SPECIFIED	N/A	N/A	N/A	-
D202	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	14/A8.1	-
D203	3670	J	S.W.	1 3/4"	P-2	N/A	4	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D204	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D205	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	02/A8.1	01/A8.1	03/A8.1	-
D206	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D207	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D208	3070	H	H.M	1 3/4"	P-2	1 HR "B" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D209	3070	H	H.M.	1 3/4"	P-2	1 HR "B" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-

KEY

- H.M. — HOLLOW METAL
- S.W. — SOLID WOOD
- G.L. — GLASS
- STL. — STEEL
- ALUMIN. — ALUMINUM
- GM. — GALVANIZED METAL

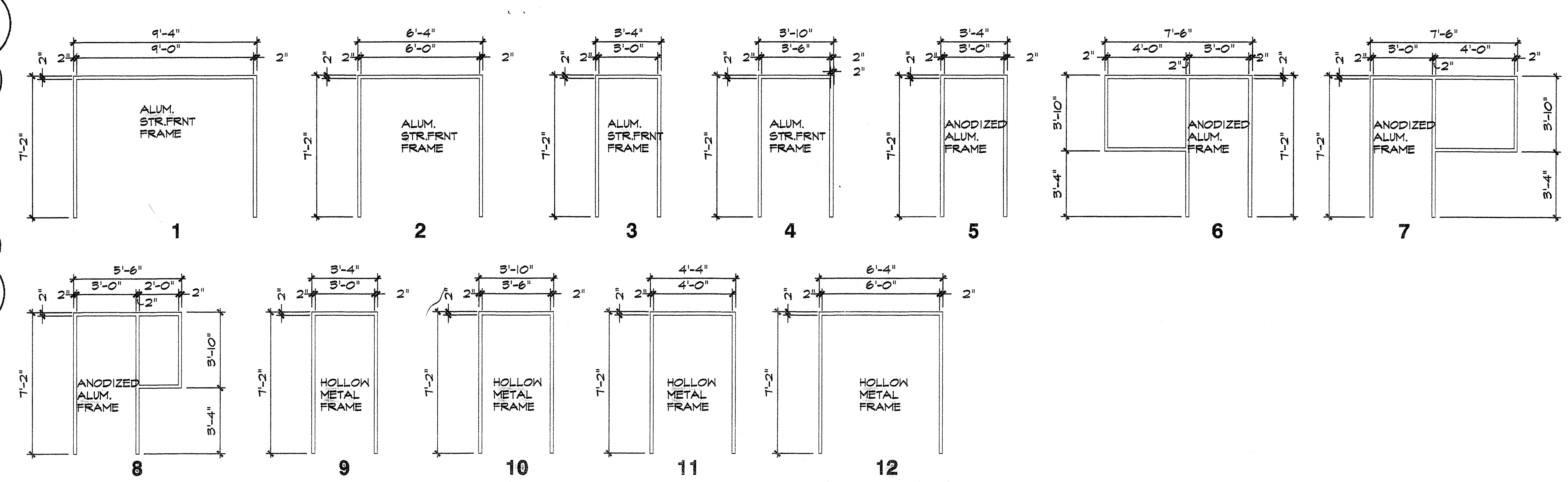


INTERIOR FIXED GLASS

ANODIZED ALUMINUM FRAMES SCALE 1/4" = 1'-0"

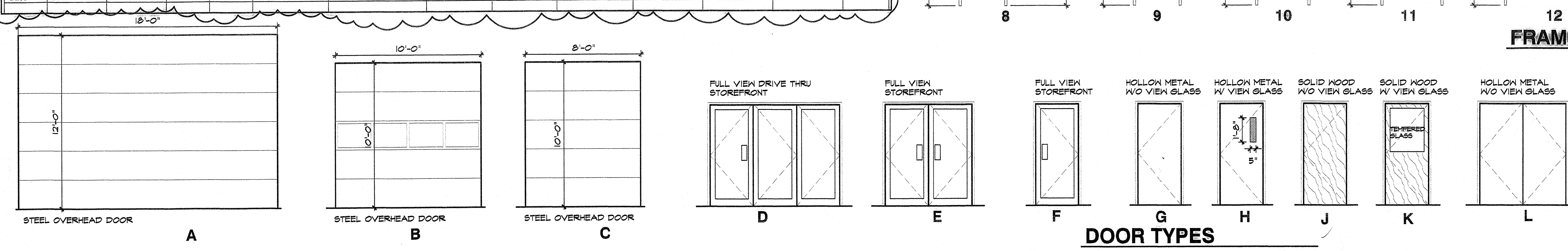
NOTE:

PROVIDE TEMPERED GLASS AS REQUIRED BY SAFETY GLASS CODES TO ALL WINDOWS AND DOORS CONTAINING GLASS.



FRAME TYPES

SCALE 1/4" = 1'-0"



DOOR TYPES

SCALE 1/4" = 1'-0"

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

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(512) 930-5353 FAX (512) 930-2618 www.eai-tx.com

REV. #	DESCRIPTION	DATE
1	REMOVED DOOR D210, REVISED DOORS D208 & D209	11/18/02

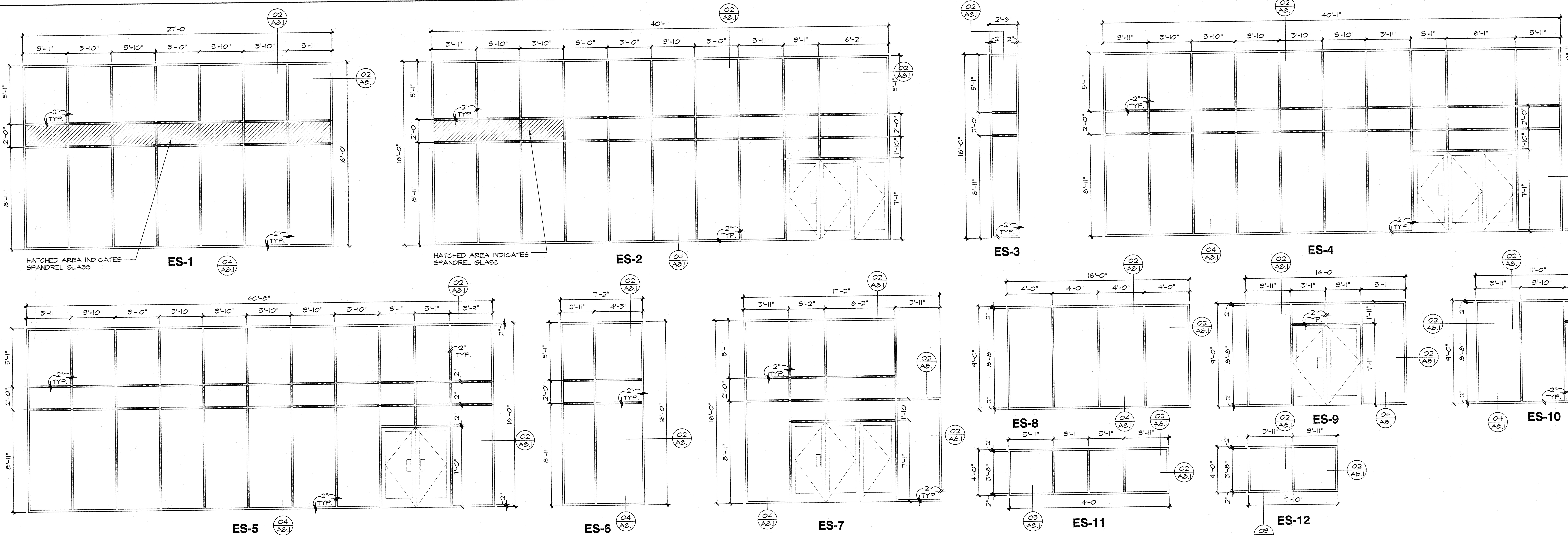
REGISTERED ARCHITECT RICHARD L. ELSASSER 9998 STATE OF TEXAS
12/09/02

DATE: 09/18/02

PROJECT NO. 02008

SHEET NO.

A8.0



EXTERIOR STOREFRONT ELEVATIONS

SCALE 1/4" = 1'-0"

DOOR SCHEDULE - FIRST FLOOR

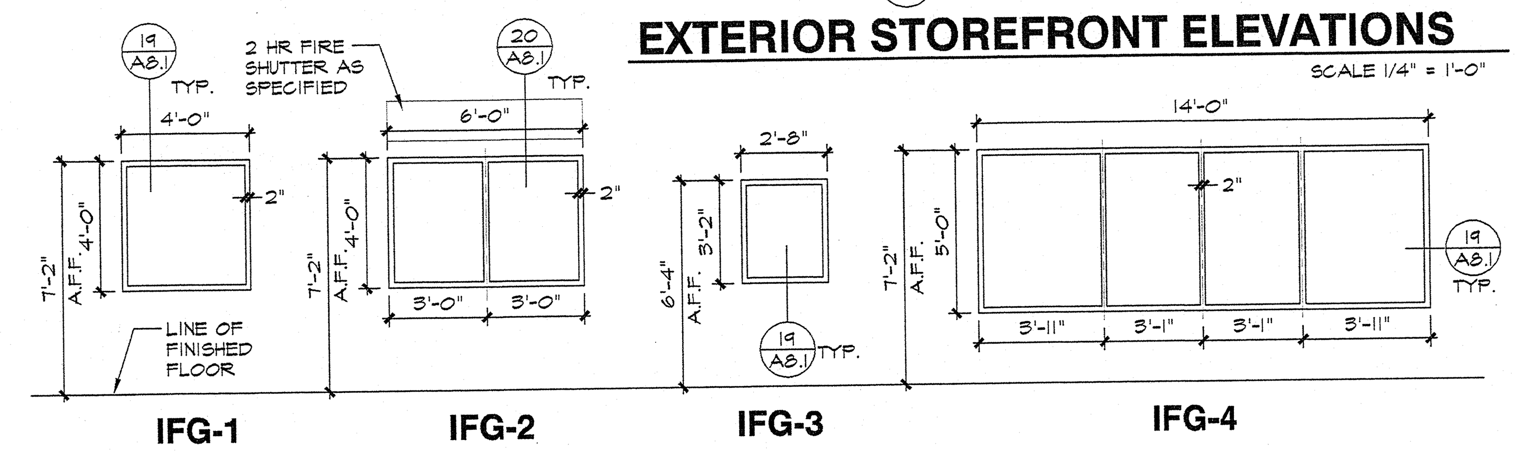
NUMBER	SIZE	DOOR TYPE	MATL	THICK	FINISH	RATING	FRAME TYPE	FRAME MATL	FRAME FINISH	JAMB DETAIL	HEAD DETAIL	SILL DETAIL	NOTES
D101	(2)3070	E	ALUMIN	1 3/4"	AS SPECIFIED	N/A	2	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D102	3070/6070	D	ALUMIN	1 3/4"	AS SPECIFIED	N/A	1	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D103	(2)3070	E	ALUMIN	1 3/4"	AS SPECIFIED	N/A	2	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D104	3070/6070	D	ALUMIN	1 3/4"	AS SPECIFIED	N/A	1	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D105	3070/6070	D	ALUMIN	1 3/4"	AS SPECIFIED	N/A	1	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D106	3070	J	S.W.	1 3/4"	P-2	N/A	6	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D107	3070	J	S.W.	1 3/4"	P-2	N/A	7	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D108	3070	J	S.W.	1 3/4"	P-2	N/A	6	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D109	3070	J	S.W.	1 3/4"	P-2	N/A	8	ALUMINUM	AS SPECIFIED	25/A8.1	11/A8.1	15/A8.1	-
D110	3070	N/A	STL	1 3/4"	P-2	.75 HR "C" LABEL	N/A	STL.	P-2	N/A	N/A	N/A	-
D111	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D112	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	011/A8.1	15/A8.1	-
D113	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D114	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D115	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D116	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	07/A8.1	07/A8.1	09/A8.1	-
D117	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D118	3070	F	ALUMIN	1 3/4"	AS SPECIFIED	N/A	3	ALUMINUM	AS SPECIFIED	22/A8.1	21/A8.1	10/A8.1	-
D119	3070	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D120	3070	F	ALUMIN	1 3/4"	AS SPECIFIED	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D121	3070	J	S.W.	1 3/4"	P-2	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D122	3070	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D123	3670	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	10	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D124	4070	H	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	11	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D125	(2)3070	L	HM	1 3/4"	P-2	1.5 HR "B" LABEL	12	HM	P-2	11/A8.1	11/A8.1	14/A8.1	-
D126	3070	K	HM	1 3/4"	P-2	N/A	9	HM	P-2	11/A8.1	11/A8.1	15/A8.1	-
D127	3070	J	S.W.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-
D128	3070	J	S.W.	1 3/4"	AS SPECIFIED	N/A	5	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D129	3070	H	H.M.	1 3/4"	AS SPECIFIED	N/A	9	H.M.	P-2	11/A8.1	11/A8.1	14/A8.1	-
D130	3670	G	H.M.	1 3/4"	P-2	N/A	10	H.M.	P-2	11/A8.1	11/A8.1	14/A8.1	-
D131	8'X10'	C	STL.	1 3/4"	P-2	N/A	N/A	STL.	P-2	24/A8.1	24/A8.1	18/A8.1	-
D132	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	07/A8.1	07/A8.1	09/A8.1	-
D133	18'X12'	A	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	16/A8.1	16/A8.1	18/A8.1	-
D134	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	06/A8.1	06/A8.1	09/A8.1	-
D135	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	06/A8.1	06/A8.1	14/A8.1	-
D136	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D137	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D138	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D139	10'X10'	B	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	17/A8.1	17/A8.1	18/A8.1	-
D140	18'x12'	A	STL.	1 3/4"	P-2	N/A	N/A	N/A	P-2	16/A8.1	16/A8.1	18/A8.1	-
D141	3070	H	H.M.	1 3/4"	P-2	N/A	9	H.M.	P-2	08/A8.1	08/A8.1	09/A8.1	-

DOOR SCHEDULE - SECOND FLOOR

NUMBER	SIZE	DOOR TYPE	MATL	THICK	FINISH	RATING	FRAME TYPE	FRAME MATL	FRAME FINISH	JAMB DETAIL	HEAD DETAIL	SILL DETAIL	NOTES
D200	3070	J	H.M.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D201	3070	N/A	STL.	1 3/4"	P-2	.75 HR "C" LABEL	N/A	N/A	AS SPECIFIED	N/A	N/A	N/A	-
D202	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	14/A8.1	-
D203	3670	J	S.W.	1 3/4"	P-2	N/A	4	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D204	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D205	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	02/A8.1	01/A8.1	03/A8.1	-
D206	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D207	3070	J	S.W.	1 3/4"	P-2	N/A	3	ALUMINUM	AS SPECIFIED	11/A8.1	11/A8.1	15/A8.1	-
D208	3070	H	H.M	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D209	3070	H	H.M.	1 3/4"	P-2	.75 HR "C" LABEL	9	H.M.	P-2	12/A8.1	12/A8.1	14/A8.1	-
D210	3070	G	H.M.	1 3/4"	P-2	1.5 HR "B" LABEL	9	H.M.	P-2	13/A8.1	13/A8.1	14/A8.1	-

KEY

H.M. — HOLLOW METAL
S.W. — SOLID WOOD
G.L. — GLASS
STL. — STEEL
ALUMIN. — ALUMINUM
GM. — GALVANIZED METAL

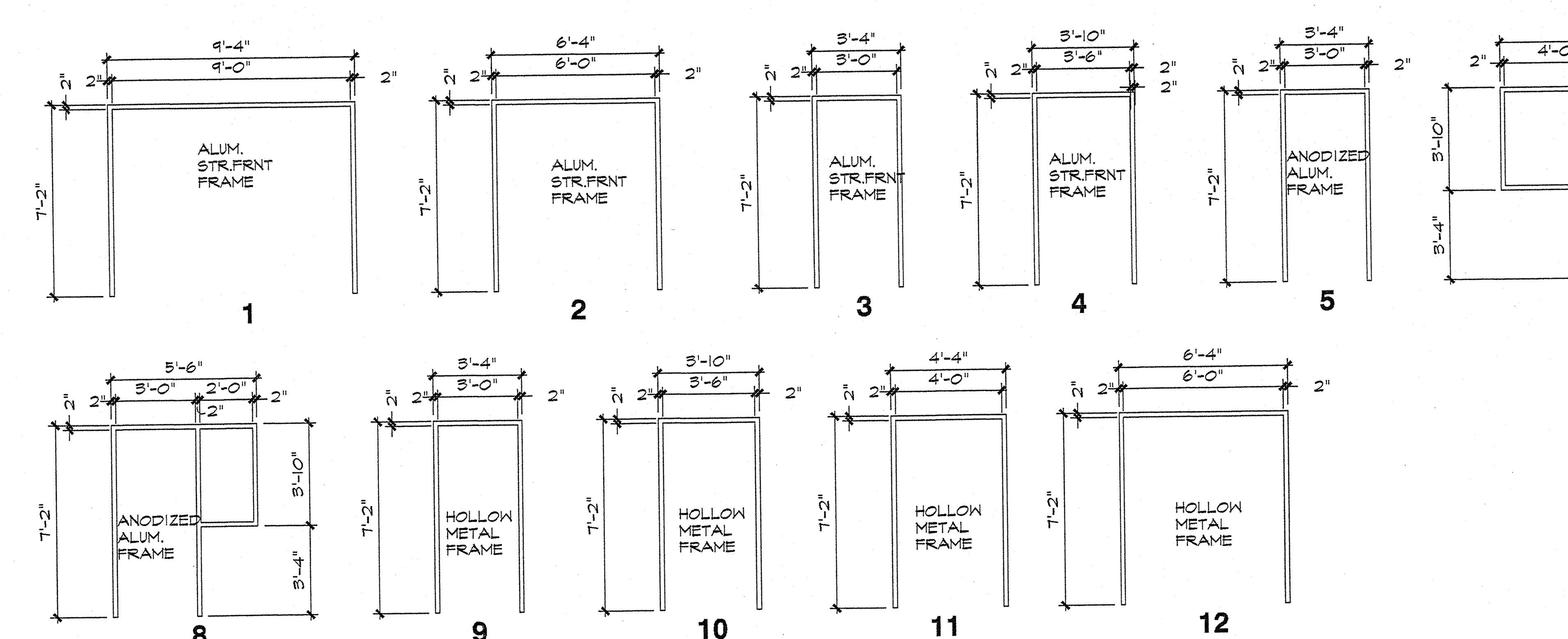


INTERIOR FIXED GLASS

ANODIZED ALUMINUM FRAMES SCALE 1/4" = 1'-0"

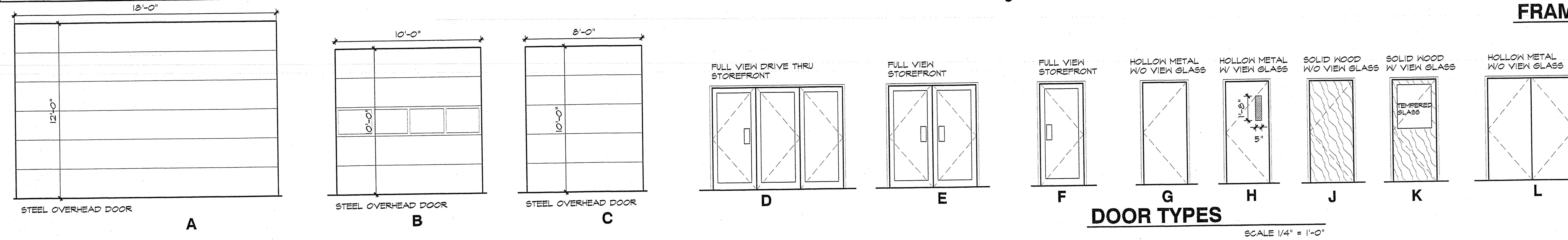
NOTE:

PROVIDE TEMPERED GLASS AS REQUIRED BY SAFETY GLASS CODES TO ALL WINDOWS AND DOORS CONTAINING GLASS.



FRAME TYPES

SCALE 1/4" = 1'-0"



DOOR TYPES

SCALE 1/4" = 1'-0"

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

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GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
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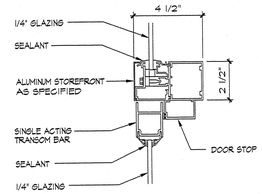
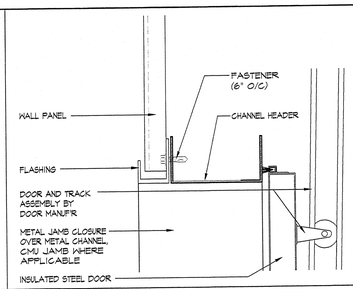
CONSULTANT INFORMATION:

REGISTERED ARCHITECT RICHARD L. ELSASSER 9998 STATE OF TEXAS
09/18/02

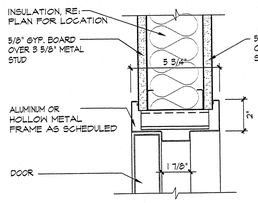
SEE REVISED



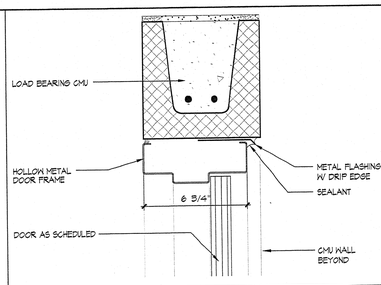
21 STOREFRONT HEAD @ TRANSOM
SCALE: 3" = 1'-0"



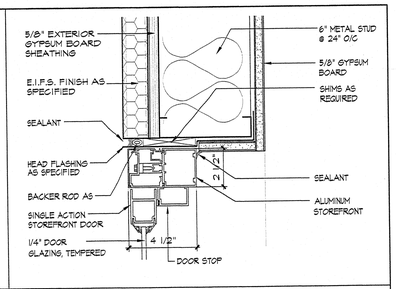
16 OVERHEAD DOOR @ METAL BLDG
SCALE: 3" = 1'-0"
HEAD, JAMB SIMILAR



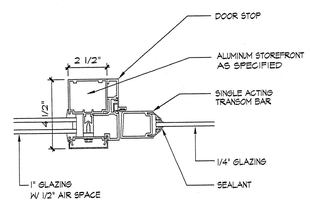
11 HEAD(JAMB SIMILAR)
SCALE: 3" = 1'-0"



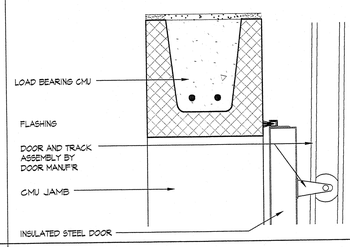
06 HEAD/JAMB SIM.(CMU BLOCK)
SCALE: 3" = 1'-0"



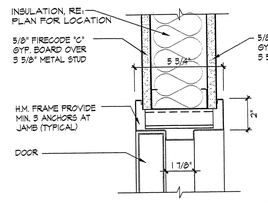
01 HEAD @ STOREFRONT DOOR
SCALE: 3" = 1'-0"
JAMB SIMILAR



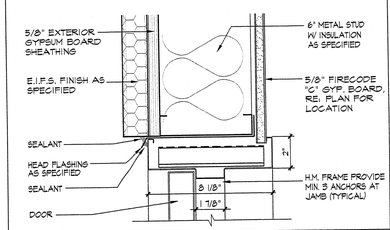
22 STOREFRONT DOOR JAMB
SCALE: 3" = 1'-0"



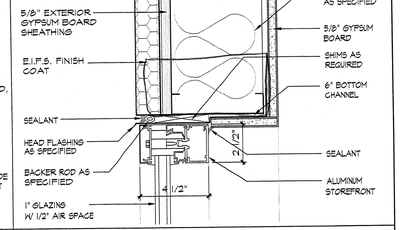
17 OVERHEAD DOOR @ CMU BLOCK
SCALE: 3" = 1'-0"
HEAD, JAMB SIMILAR



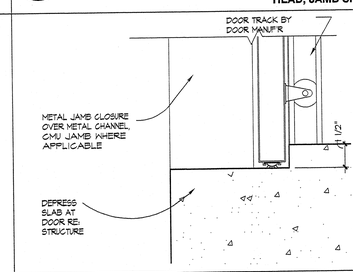
12 HEAD(JAMB SIMILAR) 1HR. WALL
SCALE: 3" = 1'-0"

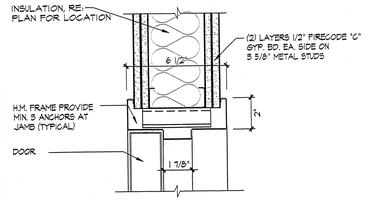


07 HEAD/JAMB SIM.(E.I.F.S.)
SCALE: 3" = 1'-0"

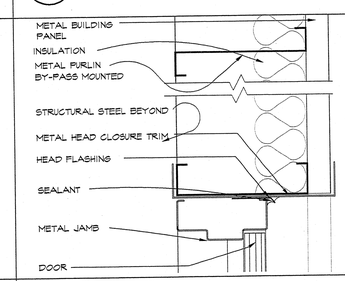


02 HEAD @ STOREFRONT WINDOW
SCALE: 3" = 1'-0"
JAMB SIMILAR

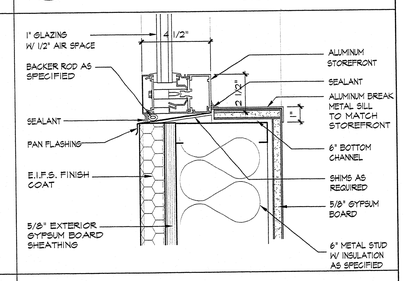




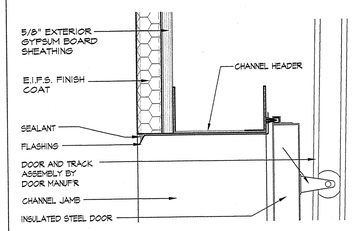
13 HEAD (JAMB SIM.) 2 HR. WALL
SCALE: 3" = 1'-0"



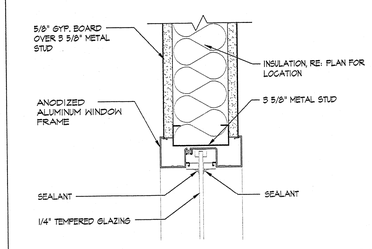
08 HEAD/JAMB SIM.(METAL BLDG)
SCALE: 3" = 1'-0"



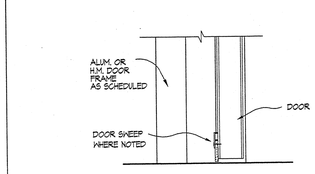
03 SILL @ STOREFRONT WINDOW
SCALE: 3" = 1'-0"



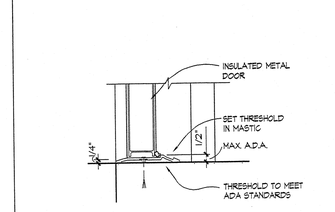
24 OVERHEAD DOOR @ EIFS
SCALE: 3" = 1'-0"
HEAD, JAMB SIMILAR



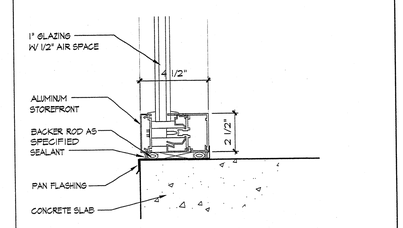
19 TYP. INTERIOR WINDOW
SCALE: 3" = 1'-0"
HEAD, JAMB, SILL SIMILAR



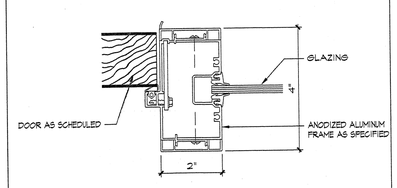
14 SILL W/ DOOR SWEEP
SCALE: 3" = 1'-0"



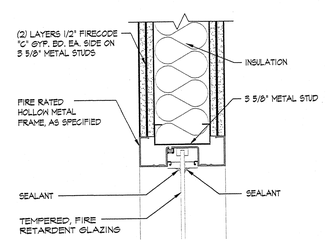
09 EXTERIOR SILL (H.M. DOOR)
SCALE: 3" = 1'-0"



04 SILL @ STOREFRONT WINDOW
SCALE: 3" = 1'-0"

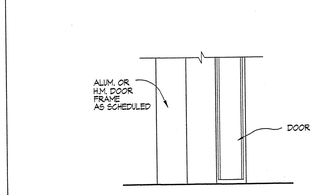


25 INTERIOR DOOR @ WINDOW
SCALE: N.T.S.
JAMB DETAIL

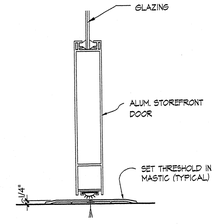


UL DESIGN # U412 (USG - SA-800421)

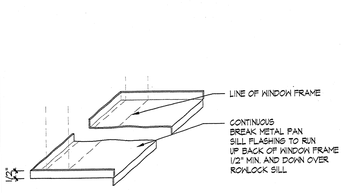
20 2 HR. RATED INTERIOR WINDOW
SCALE: 3" = 1'-0"
HEAD, JAMB, SILL SIMILAR



15 SILL W/ NO SWEEP
SCALE: 3" = 1'-0"



10 SILL @ STOREFRONT
SCALE: 3" = 1'-0"



05 SILL FLASHING:
SCALE: N.T.S
@ 2ND FLR. EXTERIOR WINDOW SILL/E.I.F.S

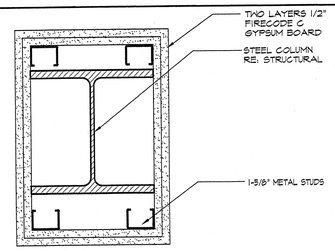
AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 553 GEORGETOWN, TX 78627
(512) 930-3333 FAX (512) 930-2818 www.esa-tx.com

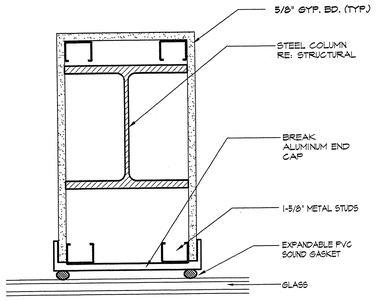
CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/18/02

DATE: 09/18/02
REVISION DATE:
PROJECT NO. 02008
SHEET NO.
A8.1

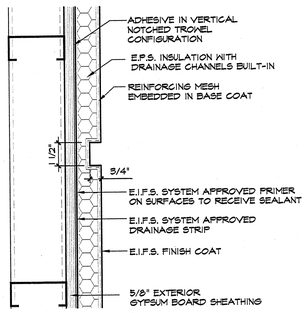


17 SURROUND @ 1 HR. RATED COLUMN
SCALE: 3" = 1'-0"

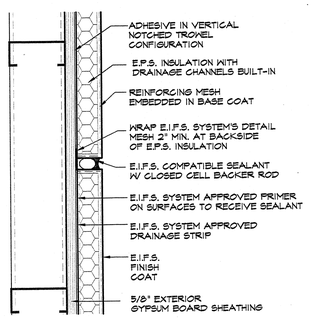


NOTE: PROVIDE COLUMN SURROUND TO ACCOMMODATE ROOF DRAIN DOWN SPOUTS AT REQUIRED LOCATIONS.

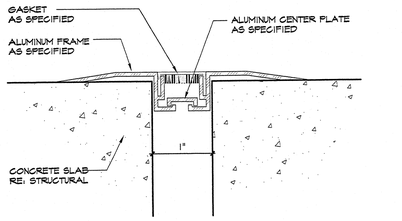
18 SURROUND @ COLUMN
SCALE: 3" = 1'-0"



19 EIFS ACCENT CHAMFER
SCALE: 3" = 1'-0"

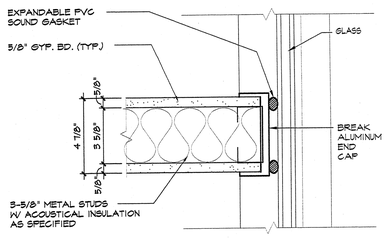


20 VERTICAL EIFS EXPANSION JOINT
SCALE: 3" = 1'-0"

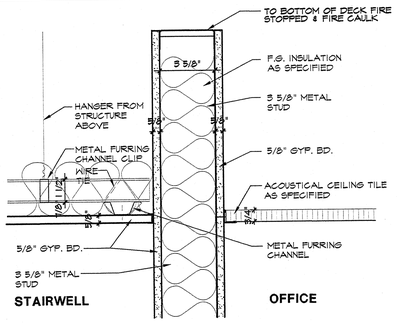


NOTE: INSTALL PER MANUFACTURER INSTRUCTION

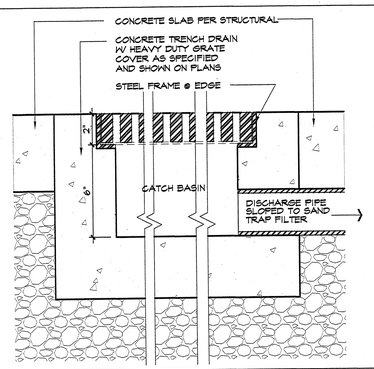
13 EXPANSION JOINT COVER
SCALE: N.T.S.



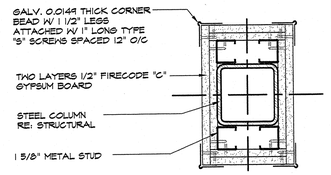
14 GYP. BD. PARTITION @ GLASS
SCALE: 3" = 1'-0"



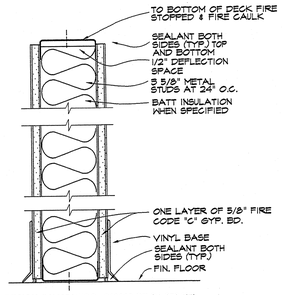
15 CEILING DETAIL @ STAIRWELL
SCALE: 3" = 1'-0"



16 FLOOR DRAIN GRATE
SCALE: 3" = 1'-0"

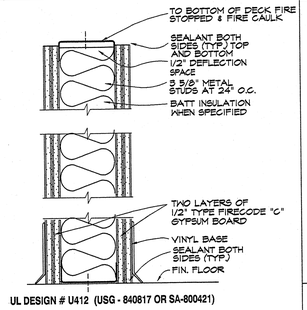


09 STRUCTURAL FIRE PROOFING
SCALE: 3" = 1'-0"



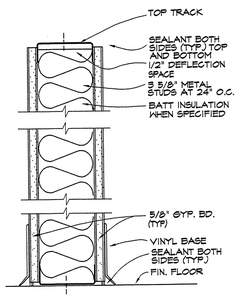
UL DESIGN # U465 (USG - 860808 OR SA-870717)

10 1 HOUR PARTITION
SCALE: 3" = 1'-0"

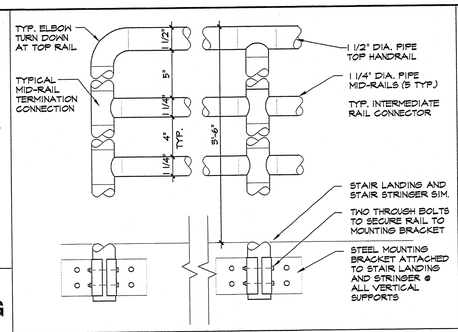


UL DESIGN # U412 (USG - 840817 OR SA-800421)

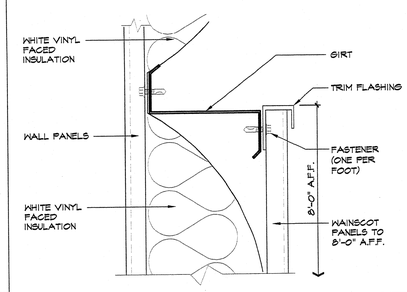
11 2 HOUR PARTITION
SCALE: 3" = 1'-0"



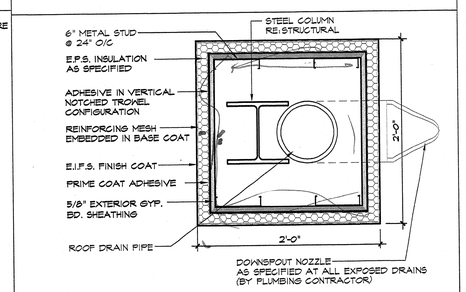
12 GYP. BD. PARTITION
SCALE: 3" = 1'-0"



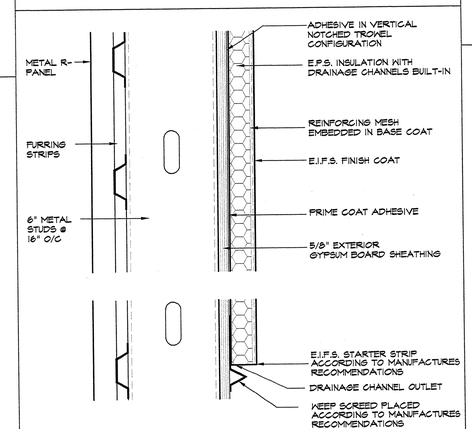
05 STAIR RAIL DETAIL
SCALE: 3" = 1'-0"



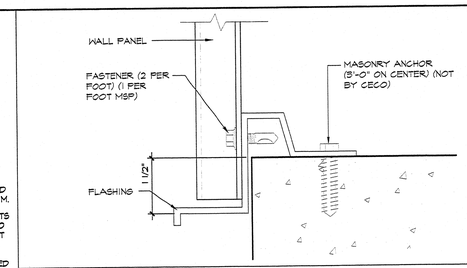
06 WAINSCOT @ SERVICE DEPT.
SCALE: N.T.S. (NORTH AND SOUTH WALLS)



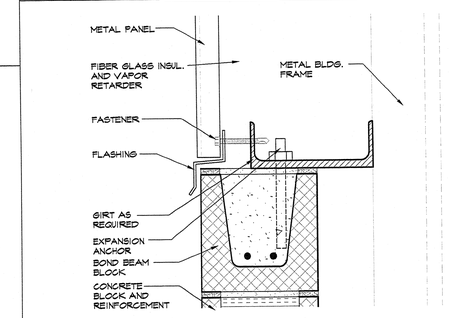
07 EXTERIOR COLUMN DETAIL
SCALE: 1 1/2" = 1'-0"



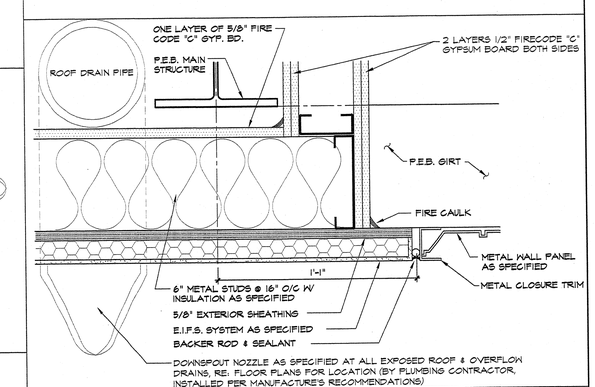
08 EIFS PARAPET WALL SECTION
SCALE: 3" = 1'-0"



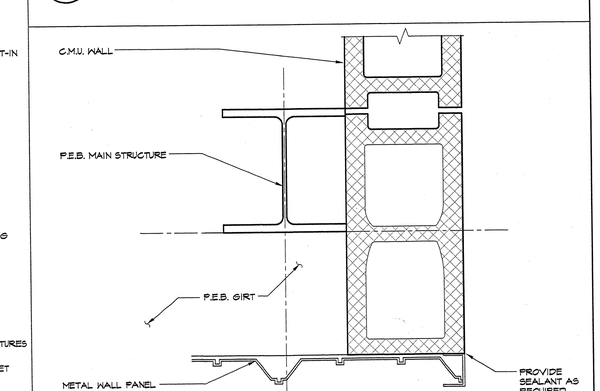
01 METAL PANEL BASE DETAIL
SCALE: N.T.S.



02 CMU/ METAL PANEL TRANS.
SCALE: 3" = 1'-0"



03 TRANSITION FROM E.I.F.S. TO METAL BLDG.
SCALE: 3" = 1'-0"
CMU TO METAL BUILDING SIMILAR



04 TRANSITION FROM METAL BLDG. TO CMU
SCALE: 3" = 1'-0"

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

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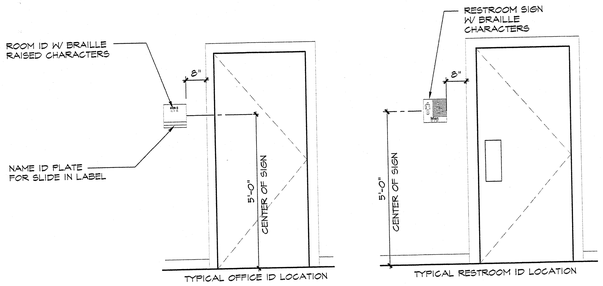
P.O. BOX 833 GEORGETOWN, TX 78627
(512) 930-3555 FAX (512) 930-2618 www.eai-tx.com

CONSULTANT INFORMATION:

REGISTERED ARCHITECT STATE OF TEXAS
09/18/02

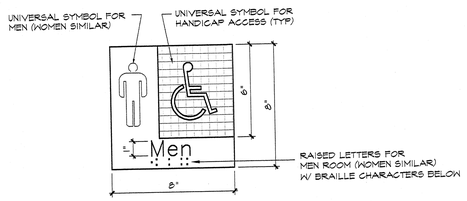
DATE: 09/18/02
REVISION DATE:
PROJECT NO. 02008
SHEET NO.

A8.2



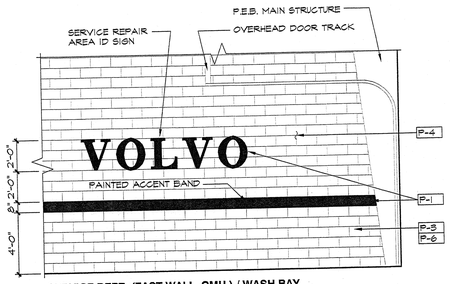
SIGN LOCATION DETAIL

SCALE 1/2" = 1'-0"



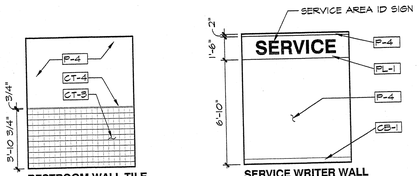
RESTROOM SIGN DETAIL

SCALE 3" = 1'-0"



SERVICE DEPT. (EAST WALL, CMU) / WASH BAY

REPEAT PAINT SCHEME FOR NORTH, SOUTH & WEST WALLS, COORDINATE AREA ID SIGNS W/ OWNER.



RESTROOM WALL TILE
ROOM #116, 117, 203, 206

APPLY TO ALL WALL SURFACES THESE ROOMS

SERVICE WRITER WALL
ROOM #114

NOTES:

1. SERVICE REPAIR AREA AND WASH BAY AREA WALL GRAPHICS TO CONSIST OF LOGO AND COLOR BAND PAINTED DIRECTLY ON WALL SURFACE.
2. POSITION LOGO CENTERED LEFT TO RIGHT ON WALL SURFACE

SPECIAL FINISHES

SCALE 1/4" = 1'-0"

CERAMIC TILE
CT-1; MANUFACTURER - CERIM-FLOOR GRES
SERIES - CHROMTECH
COLOR - ROC ARGENT, TRAVERTINO FINISH
SIZE - 12" X 12"
CT-2; MANUFACTURER - CERIM FLOOR GRES
SERIES - CHROMTECH
COLOR - CHARBON TRAVERTINO FINISH
SIZE - 12" X 12"
CT-3; MANUFACTURER - DAL TILE
COLOR - MATTE, #0725 DOVE
SIZE - 4-1/4" x 4-1/4"
CT-4; MANUFACTURER - DAL-TILE
COLOR - LINER N/A
SIZE - N/A
CT-5; MANUFACTURER - DAL-TILE
COLOR - DESIGNER COLOURS, #DC05 ICE GREY
SIZE - 12" X 12"
ACOUSTICAL CEILING TILE
ACT-1; MANUFACTURER - USG INTERIORS INC.
SIZE - 2' X 2' X 5/8"
SERIES - #2110 RADAR
COLOR - WHITE, SQUARE EDGE
GRID - 15/16" DONN DX GRID, BRUSHED ALUMINUM FINISH
CEILING
WHITE VINYL FINISH INSULATION
GYPSUM BOARD
NONE
EXTERNAL INSULATION FINISH SYSTEMS (E.I.F.S.)
E.I.F.S. MANUFACTURER -DRYVIT SYSTEMS.
FINISH - SANDBLAST
COLOR - #103 NATURAL WHITE T3F6454
COVE BASE
CB-1; MANUFACTURER - FLEXCO
SERIES - VINYL
COLOR - # 01 BLACK DAHLIA
PLASTIC LAMINATE
PL-1; MANUFACTURER - NEVAMAR
COLOR - #5-5-16T, REGIMENTAL BLUE
FINISH - TEXTURED FINISH
PL-2; MANUFACTURER - NEVAMAR
COLOR - #5-6-20T, GUN METAL
FINISH - TEXTURED FINISH
PL-3; MANUFACTURER - NEVAMAR
COLOR - #5-2-5T, CHAMPAGNE
FINISH - TEXTURED FINISH
PL-4; MANUFACTURER - FORMICA
SERIES - COLOR CORE
COLOR - #909-58 BLACK
FINISH - MATTE FINISH
PL-5; MANUFACTURER - NEVAMAR
COLOR - #5-7-56T, PRECISION WHITE
FINISH - TEXTURED FINISH
PL-6; MANUFACTURER - FORMICA
COLOR - #1595-58 TASSILI
FINISH - MATTE FINISH

PAINT
P-1; MANUFACTURER - BENJAMIN MOORE
SERIES - AQUA GLO #333
COLOR - #812(BLUE), SEMI GLOSS
P-2; MANUFACTURER - BENJAMIN MOORE
SERIES - MOORGLO #096 (EXTERIOR) AQUA GLO (INTERIOR)
COLOR - #1608 (GRAY)
P-3; MANUFACTURER - BENJAMIN MOORE
SERIES - AQUA GLO #333
COLOR - RICHMON BISQUE, SEMI GLOSS FINISH
P-4; MANUFACTURER - BENJAMIN MOORE
SERIES - AQUA VELVET #319
COLOR - DECORATOR'S WHITE, EGGSHELL FINISH
P-5; MANUFACTURER - BENJAMIN MOORE
SERIES - SATIN IMPERVO ENAMEL
COLOR - BLACK, LON LUSTER FINISH
P-6; MANUFACTURER - BENJAMIN MOORE
SERIES - AQUA GLO #333
COLOR - # 1600 (LIGHT GREY) SEMI GLOSS FINISH
P-7; MANUFACTURER - PRO-COTE
SERIES - EPOXY FLOOR PAINT
COLOR - SLATE GREY
P-8; MANUFACTURER - PRO-COTE
SERIES - EPOXY FLOOR PAINT
COLOR - NAVY GREY
P-9; MANUFACTURER - BENJAMIN MOORE
SERIES - MOORGLO #096
COLOR - BRILLIANT WHITE , SEMI-GLOSS
P-10; MANUFACTURER - BENJAMIN MOORE
SERIES - MOORGLO #096
COLOR - # 812(BLUE) SEMI-GLOSS
LOCATION - EXTERIOR BOLLARDS
VINYL COMPOSITION TILE (12" X 12")
VCT-1; MANUFACTURER - TARKETT
SERIES - EXPRESSIONS
COLOR - 2028 (BLACK)
VCT-2; MANUFACTURER - TARKETT
SERIES - EXPRESSIONS
COLOR - 2018 (GRAY)
SEALED CONCRETE: EPOXY COAT
CARPET
C-1; MANUFACTURER - MOHAWK COMMERCIAL
SERIES - MULTIPLE CHOICE
COLOR - #MCH 717, NEVER "A" AND "C"
C-2; MANUFACTURER - PRINCE STREET
SERIES - FEATURE FILM
COLOR - #FFM 4027, HAIR AND MAKE-UP
WOOD VENEER
WV-1; - MANUFACTURER - VANTEC
WV-1 - SERIES - # STP-069, TULIP
SEALED CONCRETE
SC-1; CLEAR EPOXY CONCRETE SEALER
RUBBER FLOORING
RBF-1 ; - MANUFACTURER - FLEXCO
COLOR - TO BE SELECTED BY OWNER
FROM MANUFACTURER STANDARDS

NOTE:

CONTRACTOR TO VERIFY SELECTED FINISHES WITH OWNER PRIOR TO PURCHASE AND INSTALLATION OF PRODUCT. CONTRACTOR SHALL PROVIDE OWNER WITH SAMPLE MATERIAL AND COLORS OF FINISHES TO BE APPLIED.

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	WALLS										FLOOR												CEILING					TRIM	REMARKS
		P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10	GT-1	GT-2	GT-3	GT-4	GT-5	GT-6	C-1	C-2	VCT-1	VCT-2	SC-1	P-8	RBF-1	ACT-1	E.I.F.S.	WVF1	GYP	NONE	CB-1	
100	SHOWROOM				D																				O					O	
101	NEW VEHICLE MANGER				O							O													O					O	
102	SELECT VEHICLE MANAGER				O							O													O					O	
103	F & I OFFICE				O							O													O					O	
104	CONF. & SALES CONSLT. WORK AREA				O							O													O					O	
105	SALES				O							O													O					O	
106	SALES				O							O													O					O	
107	SALES				O							O													O					O	
108	SALES				O							O													O					O	
109	SALES				O							O													O					O	
110	CHILD'S PLAY CENTER				O														O										O		
111	ELEVATOR																								O					O	
112	CORRIDOR				O							O													O					O	
113	ACCESSORIES DISPLAY				O							O	O												O					O	
114	SERVICE WRITE-UP				O							O	O												O					O	Rubber Floor
115	CASHIER				O												O								O					O	CT-3 - WAINSCOT, SEE A2.4
116	WOMEN'S RESTROOM				O												O								O					O	CT-3 - WAINSCOT, SEE A2.4
117	MEN'S RESTROOM				O																		O		O					O	Rubber Floor
118	PARTS MANAGER				O																		O				O				
119	PARTS STORAGE/RECEIVING			O																			O						O	O	
120	SECURE TOOLS			O																			O		O					O	
121	EMPLOYEE LOUNGE				O															O					O					O	CT-3 - WAINSCOT, SEE A2.4
122	WOMEN'S TECH RESTROOM				O															O					O					O	CT-3 - WAINSCOT, SEE A2.4
123	MEN'S TECH RESTROOM				O																		O		O					O	Rubber Floor
124	SPEC. TOOLS				O																		O		O					O	Rubber Floor
125	TECH PARTS			O																			O		O					O	Rubber Floor
126	SERVICE MANAGER				O																		O		O					O	Rubber Floor
127	EXPRESS SERVICE PARTS			O																			O		O					O	Rubber Floor
128	EXPRESS SERVICE ENTRY			O																		O			O			O		O	
129	STAIRWELL				O																		O				O				
130	SERVICE DEPARTMENT	O			O		O															O							O		
131	MAKE READY MANAGER	O			O		O															O							O		
132	WASH BAYS	O			O		O															O							O		
133	WASH BAYS	O			O		O															O					O				
200	MECHANICAL ROOM				D													O							O					O	
201	RECEPTION/ WAITING MEZZANINE				O																	O							O		
202	ELEVATOR EQUIPMENT				O																				O					O	
203	GENERAL MANAGERS/CONF./TRAINING				O													O				O									
204	ELECTRICAL/MECHANICAL				O																				O					O	CT-3 - WAINSCOT, SEE A2.4
205	WOMEN'S RESTROOM				O											O									O					O	CT-3 - WAINSCOT, SEE A2.4
206	MEN'S RESTROOM				O											O									O					O	
207	GENERAL OFFICE				O													O							O					O	
208	BREAK ROOM				O															O					O					O	
209	MECHANICAL DECK				O																						O				
	SERVICE DRIVE CANOPY																									O					CT-1 - LANDING
	SHOWROOM STAIR																														

ROOM FINISH SCHEDULE

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT INFORMATION:

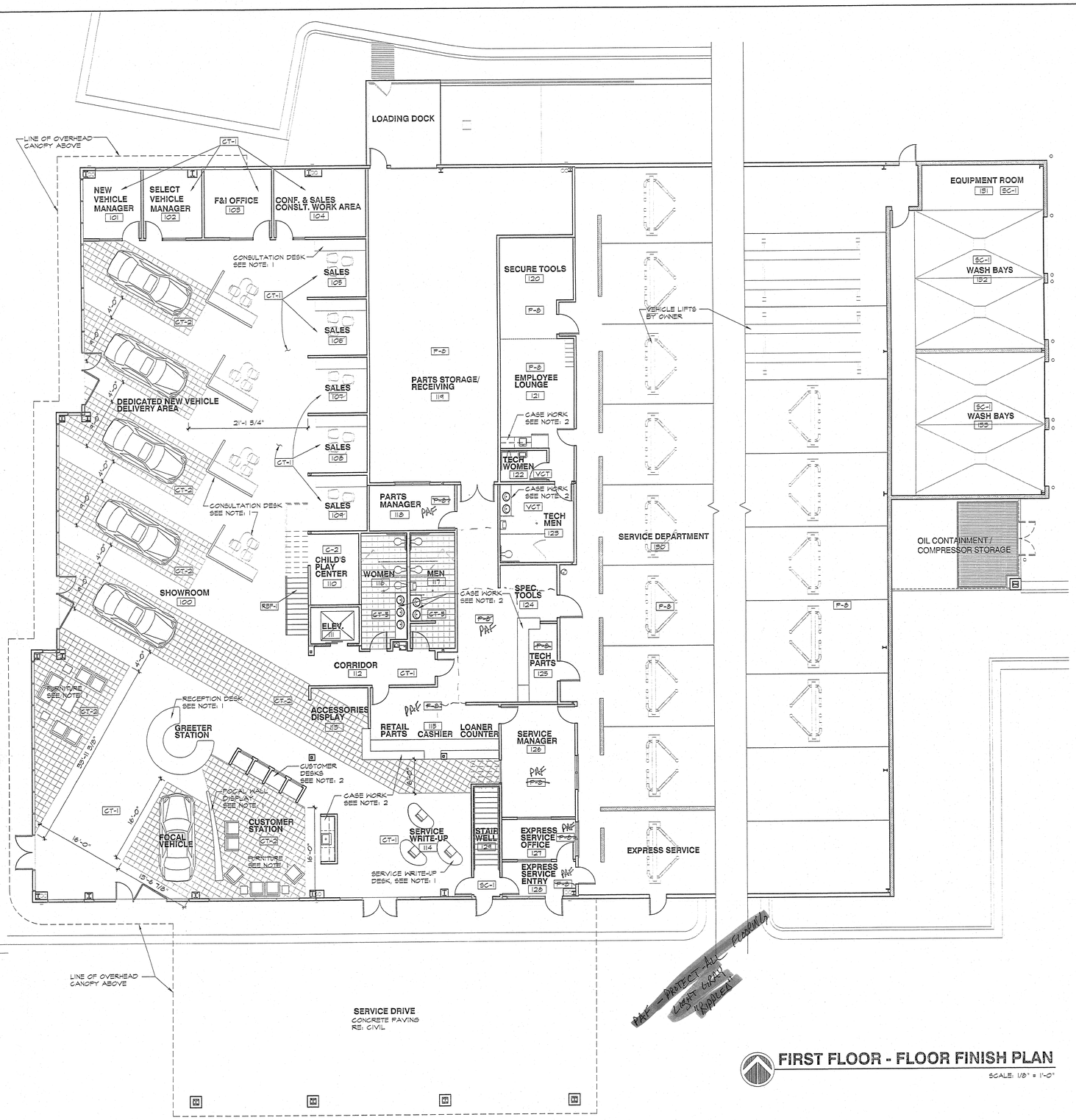
DATE:
09/18/02

REVISION DATE:

PROJECT NO.
02006

SHEET NO.

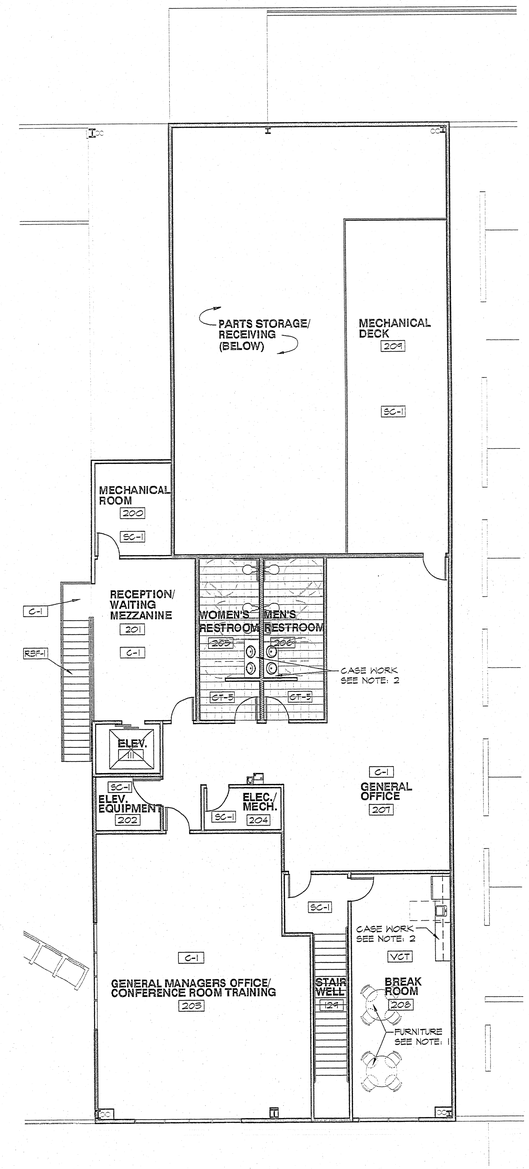
A8.3



PAF - PROTECT ALL FLOORING LEAVE CLEAN UNDAMAGED

FIRST FLOOR - FLOOR FINISH PLAN

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



SECOND FLOOR - FLOOR FINISH PLAN

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

NOTES:

1. OWNER TO FURNISH ALL REQUIRED FURNITURE AND DISPLAY MATERIAL AS NOTED IN THE PROJECT MANUAL.
2. CUSTOM CASE WORK TO BE IN CONTRACTORS BID.

LEGEND:

CT-1 FLOOR FINISH TYPE, REFER TO A8.5 FOR SPECIFICATIONS

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT INFORMATION:

REGISTERED ARCHITECT STEPHEN M. ELSASSER 8333 STATE OF TEXAS
09/18/02

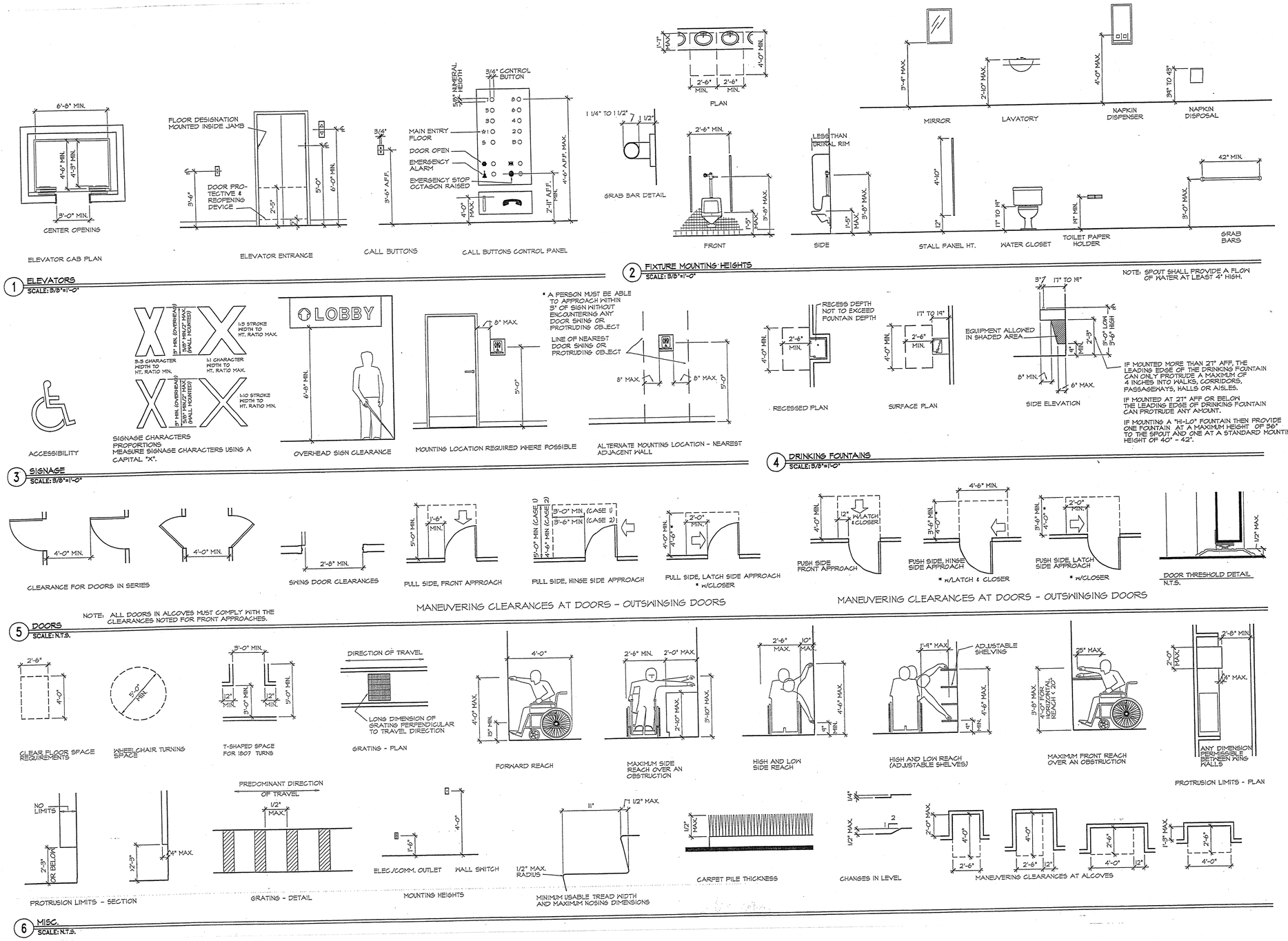
DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO.

A9.0



A.D.A REQUIREMENTS

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT INFORMATION:

REGISTERED ARCHITECT
STATE OF TEXAS
09/18/02

DATE: 09/18/02

REVISION DATE:

PROJECT NO. 02008

SHEET NO.

A9.1

GENERAL REQUIREMENTS:

1. ALL CODES AND STANDARDS REFERENCED HEREIN SHALL BE THE LATEST EDITION. THE REQUIREMENTS OF THE STANDARD BUILDING CODE AS PUBLISHED BY THE SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL, INC. SHALL GOVERN THE DESIGN AND CONSTRUCTION OF THIS WORK.
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AT THE JOBSITE AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
3. PRINCIPLE OPENINGS THROUGH THE STRUCTURAL SYSTEM ARE INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR REQUIRED OPENINGS AND SHALL COORDINATE WITH THE STRUCTURAL ENGINEER ON ANY DISCREPANCIES. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL SUBCONTRACTOR.
4. ANY CHANGES TO THE STRUCTURAL DRAWINGS REQUIRED DUE TO THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
5. FLOOR SLOPES, LOCATIONS AND DEPTHS OF FLOOR DEPRESSIONS, FLOOR FINISHES, TOPPING SLABS, ETC. ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL SLAB RECESSES AS SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
6. JOB SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. DO NOT SCALE THESE DRAWINGS.
8. IMPORTANT BIDDING NOTE: CONTRACTOR SHALL REVISE THE CONTRACT AMOUNT BASED ON ANY CHANGES THAT MAY BE REQUIRED WHEN PRE-ENGINEERED BUILDING FRAME REACTIONS AND DRAWINGS ARE AVAILABLE.

DESIGN LOADS:

THE FOLLOWING LOADS WERE USED TO PROPORTION THE STRUCTURAL MEMBERS AND CONNECTIONS FOR THESE DRAWINGS:

1. LIVE LOADS

ROOF	20 PSF
FLOOR	50 PSF
SECOND FLOOR OFFICE	50 PSF
SECOND FLOOR STORAGE	125 PSF

2. WIND LOADS (BASIC WIND SPEED OF 70 MILES PER HOUR, EXPOSURE C)
3. DEAD LOADS

ROOF/CEILING	20 PSF

4. FINAL PIER SIZES AND LOCATIONS MUST BE BASED ON LOADS AND DRAWINGS PROVIDED BY P.E.B. MANUFACTURER (NOT AVAILABLE AT THE TIME THESE DRAWINGS WERE ISSUED).

GEOTECHNICAL NOTES:

1. THIS DESIGN IS BASED ON A GEOTECHNICAL INVESTIGATION AND REPORT PREPARED BY P.S.I., INC. COPIES MAY BE OBTAINED AT THE OFFICE OF THE ARCHITECT.
2. IF EXCAVATION REVEALS CONDITIONS DIFFERENT FROM THOSE INDICATED IN THE REPORT, STOP THE WORK AND CONTACT THE ENGINEER FOR RECOMMENDATIONS.

FOUNDATION NOTES:

1. STRAIGHT SHAFT DRILLED PIERS SHALL BE FOUNDED 20 FEET BELOW EXISTING GRADE (SEE GEOTECHNICAL REPORT). DESIGN BEARING VALUES ARE AS FOLLOWS:

END BEARING	15,000 PSF

2. ALL PIER SHAFTS SHALL BE CAREFULLY CLEANED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. EACH PIER SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
3. CONCRETE SHALL BE PLACED IN THE DRILLED SHAFTS AS SOON AS POSSIBLE AFTER APPROVAL OF THE SHAFT BY THE GEOTECHNICAL ENGINEER. IN NO CASE SHOULD A SHAFT BE LEFT OPEN LONGER THAN EIGHT (8) HOURS WITHOUT BEING FILLED WITH CONCRETE.
4. CONTRACTOR SHALL INCLUDE IN HIS BID ALLOWANCES FOR INCREASES OR DECREASES IN PIER DEPTHS FROM THOSE INDICATED ON THE DRAWINGS.
5. SHOULD SLOUGHING AND/OR GROUNDWATER SEEPAGE OCCUR DURING PIER CONSTRUCTION PROVIDE TEMPORARY STEEL CASING AS REQUIRED.

PREPARATION OF THE BUILDING PAD:

1. REMOVE ALL TRASH, BRUSH OR OTHER DEBRIS FROM THE SURFACE OF THE BUILDING SITE AND HAUL WAY.
2. PREPARE THE SUBGRADE IN ONE OF TWO METHODS (A OR B) (AS DESCRIBED IN THE GEOTECHNICAL REPORT) :
   A. REMOVE 90", 5 FEET PAST BUILDING LINE AND REPLACE WITH SELECT FILL AS DESCRIBED IN THE GEOTECHNICAL REPORT.
   B. REMOVE 90" OF EXISTING FILL MATERIAL (ONLY) 5 FEET PAST THE BUILDING LINE. REMOVE ALL DELETERIOUS MATERIALS AND PARTICLES LARGER THAN 1 INCH IN DIAMETER FROM THE EXCAVATED MATERIAL. RESTORE PROCESSED FILL MATERIAL TO EXCAVATION ACCORDING TO THE GEOTECHNICAL REPORT. IF THE GRADES IN THE BUILDING PAD AREAS CANNOT BE RESTORED WITH THE VOLUME OF MATERIALS EXCAVATED, THE REMAINING PORTION OF THE EXCAVATION SHOULD BE FILLED WITH CRUSHED LIMESTONE SELECT FILL ACCORDING TO THE GEOTECHNICAL REPORT. CHEMICALLY INJECT ENGINEERED FILL SOILS ACCORDING TO THE GEOTECHNICAL REPORT.
3. CONDUCT IN-PLACE DENSITY TESTS FOR EACH LIFT TO VERIFY THE COMPACTION OF THE SUBGRADE. EACH LIFT SHALL BE INSPECTED PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.
4. PREVENT EXCESSIVE LOSS OF SUBGRADE MOISTURE DURING CONSTRUCTION PRIOR TO PLACING THE INTERIOR SLAB.
5. COMPACT BACKFILL FOR UTILITY LINES TO THE DENSITY REQUIREMENTS FOR SELECT FILL SPECIFICATIONS IN THE GEOTECHNICAL REPORT.

CONCRETE NOTES:

1. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318.
2. PROPORTIONING OF CONCRETE SHALL BE INACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE," ACI 301.
3. DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL BARS SHALL COMPLY WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
4. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

DRILLED SHAFT FOUNDATIONS	3000 PSI
SLAB-ON-GRADE	3000 PSI
PIER CAPS	3000 PSI
BEAMS	3000 PSI

5. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

	MAX	MIN
DRILLED SHAFTS	7"	5"
SLAB-ON-GRADE	5"	3"
PIER CAPS	5"	3"
BEAMS	5"	3"

6. MAXIMUM AGGREGATE SIZE SHALL BE AS FOLLOWS:

DRILLED SHAFTS	1 1/2 INCH
SLAB-ON-GRADE	1 1/2 INCH
PIER CAPS	1 1/2 INCH
BEAMS	1 1/2 INCH

7. DEFORMED STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 40 FOR #3 BARS, GRADE 60 FOR ALL OTHERS..
8. LAP ALL CONTINUOUS REINFORCING BARS 30 BAR DIAMETERS UNLESS NOTED OTHERWISE. LAP BOTTOM BARS AT SUPPORTS AND TOP BARS AT MIDSPAN BETWEEN SUPPORTS UNLESS NOTED OTHERWISE.
9. SEE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS FOR ALL EXPOSED CONCRETE.
10. CONSTRUCTION JOINTS SHALL BE DETAILED AND LOCATED AS SHOWN ON THE DRAWINGS. NO OTHER CONSTRUCTION JOINTS SHALL BE PLACED WITHOUT THE APPROVAL OF THE ENGINEER.
11. SUBMIT DESIGN MIX AND TEST DATA ON THE PROPOSED DESIGN MIX FOR EACH TYPE AND STRENGTH OF CONCRETE IN THE PROJECT TO THE OWNER, ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL SEVEN DAYS PRIOR TO PLACEMENT.
12. TESTING AND SUBMITTALS
    A. SHOP DRAWINGS SHOWING REINFORCEMENT FABRICATION, BAR PLACEMENT LOCATION, SPLICES, SPACING AND BAR DESIGNATION, BAR TYPE, LENGTH, SIZE, BENDING, NUMBER OF BARS, DIMENSIONS AND ANY OTHER PERTINENT INFORMATION. SHOP DRAWINGS SHALL CONTAIN SUFFICIENT DETAIL TO PERMIT PLACEMENT OF REINFORCING WITHOUT THE USE OF THE DESIGN DRAWINGS. DO NOT BEGIN FABRICATION OF REINFORCING STEEL UNTIL AFTER SHOP DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.
    B. THE OWNER SHALL SECURE THE SERVICES OF A COMMERCIAL TESTING LABORATORY TO PERFORM THE FOLLOWING QUALITY ASSURANCE FUNCTIONS:
       I. OBTAIN SAMPLES FROM EVERY 100 CUBIC YARDS OF CONCRETE (OR PORTION THEREOF)
       II. MOLD THREE CYLINDERS FROM EACH SAMPLE AND CURE PER ASTM C31. TEST ONE SPECIMIN AT 7 DAYS AND TWO AT 28 DAYS. FORWARD TEST REPORTS TO THE ENGINEER FOR REVIEW. PREPARE ONE ADDITIONAL CYLINDER DURING HOT OR COLD WEATHER CONCRETING TO BE CURED ON THE JOB SITE UNDER THE SAME CONDITIONS AS THE CONCRETE IT REPRESENTS.
       III. PERFORM ONE SLUMP TEST FOR EACH SET OF CYLINDERS TAKEN.
       IV. PERFORM ONE TEST FOR AIR ENTRAINMENT IN CONCRETE AT LEAST ONCE DURING EACH DAY IN WHICH CONCRETE IS PLACED.
13. NORMAL WEIGHT CONCRETE SHALL WEIGH NO MORE THAN 150 POUNDS PER CUBIC FOOT. LIGHTWEIGHT CONCRETE SHALL WEIGH NO MORE THAN 110 POUNDS PER CUBIC FOOT.
14. MAKE CONSTRUCTION JOINTS ONLY AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS, THE REVIEWED SHOP DRAWINGS OR AS DIRECTED OR APPROVED BY THE ENGINEER. ANY ADDITIONAL CONSTRUCTION JOINTS OR RELOCATION OF CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS, PROPOSED BY THE CONTRACTOR, MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.

PRE-ENGINEERED BUILDING NOTES:

1. PRE-ENGINEERED BUILDING SHALL BE DESIGNED, FABRICATED AND ERECTED BY A MANUFACTURERWITH A MINIMUM OF 5 YEARS EXPERIENCE WITH PROJECTS THE SIZE AND COMPLEXITY OF THIS PROJECT.
2. THE BUILDING MANUFACTURER SHALL SUPPLY ERECTION DRAWINGS SEALED BY AN ENGINEER CURRENTLY REGISTERED IN THE STATE OF TEXAS.
3. THE BUILDING MANUFACTURER SHALL SUPPLY FRAME REACTIONS TO CONRAD ENGINEERING FOR USE IN THE DESIGN OF THE BUILDING FOUNDATION.
4. CONRAD ENGINEERING IS THE STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING FOUNDATION ONLY. CONRAD ENGINEERING IS NOT THE ENGINEER OF RECORD FOR THE DESIGN, FABRICATION OR ERECTION OF THE PRE-ENGINEERED BUILDING. RESPONSIBILITY FOR THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED BUILDING FRAME AND THE COMPONENTS SHALL BE THE SOLE RESPONSIBILITY OF THE ENGINEER WHOSE SEAL APPEARS ON THE PRE-ENGINEERED BUILDING DRAWINGS.
5. ANCHOR BOLTS SHALL BE PROVIDED BY THE PRE-ENGINEERED BUILDING MANUFACTURER FOR INSTALLATION BY THE GENERAL CONTRACTOR.
6. WHERE PRE-ENGINEERED BUILDING FRAMES SUPPORT MASONRY WALLS, MANUFACATURER SHALL LIMIT DEFLECTION DUE TO WIND TO L/480 OF THE EAVE HEIGHT OR ONE INCH, WHICHEVER IS LESS.

CONCRETE MASONRY UNIT NOTES

1. CONCRETE MASONRY UNIT CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE UNIFORM BUILDING CODE.
2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, STANDARD SPECIFICATION FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS, GRADE N.
3. CONCRETE MASONRY UNITS SHALL BE "NORMAL WEIGHT" WITH A MAXIMUM DENSITY OF 125 POUNDS PER CUBIC FOOT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH ON THE AVERAGE GROSS AREA OF 1,000 PSI
4. DESIGN OF CONRETE MASONRY UNIT WALLS IS BASED ON THE FOLLOWING:

SPECIAL INSPECTION REQUIRED	NO
1/3 STRESS INCREASE FOR WIND LOAD	YES
ULTIMATE COMPRESSIVE STRENGTH	1500 PSI
ALLOWABLE AXIAL COMPRESSION	150 PSI
ALLOWABLE FLEXUAL COMPRESSION	250 PSI
ALLOWABLE SHEAR STRESS	25 PSI
MODULUS OF ELASTICITY	750,000 PSI
MODULAR RATIO	40

5. DEFORMED STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
6. JOINT REINFORCING SHALL BE TRUSS TYPE AND SHALL BE MANUFACTURED FROM 9 GAGE WIRE CONFORMING TO ASTM A82 FOR COLD DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT. MINIMUM EFFECTIVE STEEL AREA FOR AN 8 INCH WALL SHALL BE 0.048 SQUARE INCHES AND SPACING SHALL BE AS NOTED ON THE DRAWINGS. (DUR-O-WALL NO. 8 OR APPROVED EQUAL)
7. GROUT FOR REINFORCED CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C476, GRADE PM AND SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 POUNDS PER SQUARE INCH AT 28 DAYS.
8. ALL GROUTING OF REINFORCED CELLS SHALL BE BY THE LOW-LIFT METHOD UNLESS NOTED OTHERWISE ON THE DRAWINGS. CENTER REINFORCING BARS IN CELL. PROVIDE MINIMUM 40 DIAMETER LAP AT ALL SPLICES.
9. PROVIDE REINFORCING IN CMU ACCORDING TO THE DRAWINGS.

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS ARE USED ON THE STRUCTURAL DRAWINGS:

ABBREVIATION	MEANING
A.F.F.	ABOVE FINISHED FLOOR
B.O.	BOTTOM OF
CMU	CONCRETE MASONRY UNIT
DIAM	DIAMETER
EL	ELEVATION
GA	GAUGE
GL	GLUE LAMINATED
HORIZ	HORIZONTAL
I.S.F.	INSIDE FACE
MFR	MANUFACTURER
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.H.	OPPOSITE HAND
O.S.F.	OUTSIDE FACE
RCP	REINFORCED CONCRETE PIPE
SIM	SIMILAR
STD	STANDARD
T.O.	TOP OF
TS	TUBULAR STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDE FLANGE
WWF	WELDED WIRE FABRIC

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STATE OF TEXAS
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REGISTERED PROFESSIONAL ENGINEER

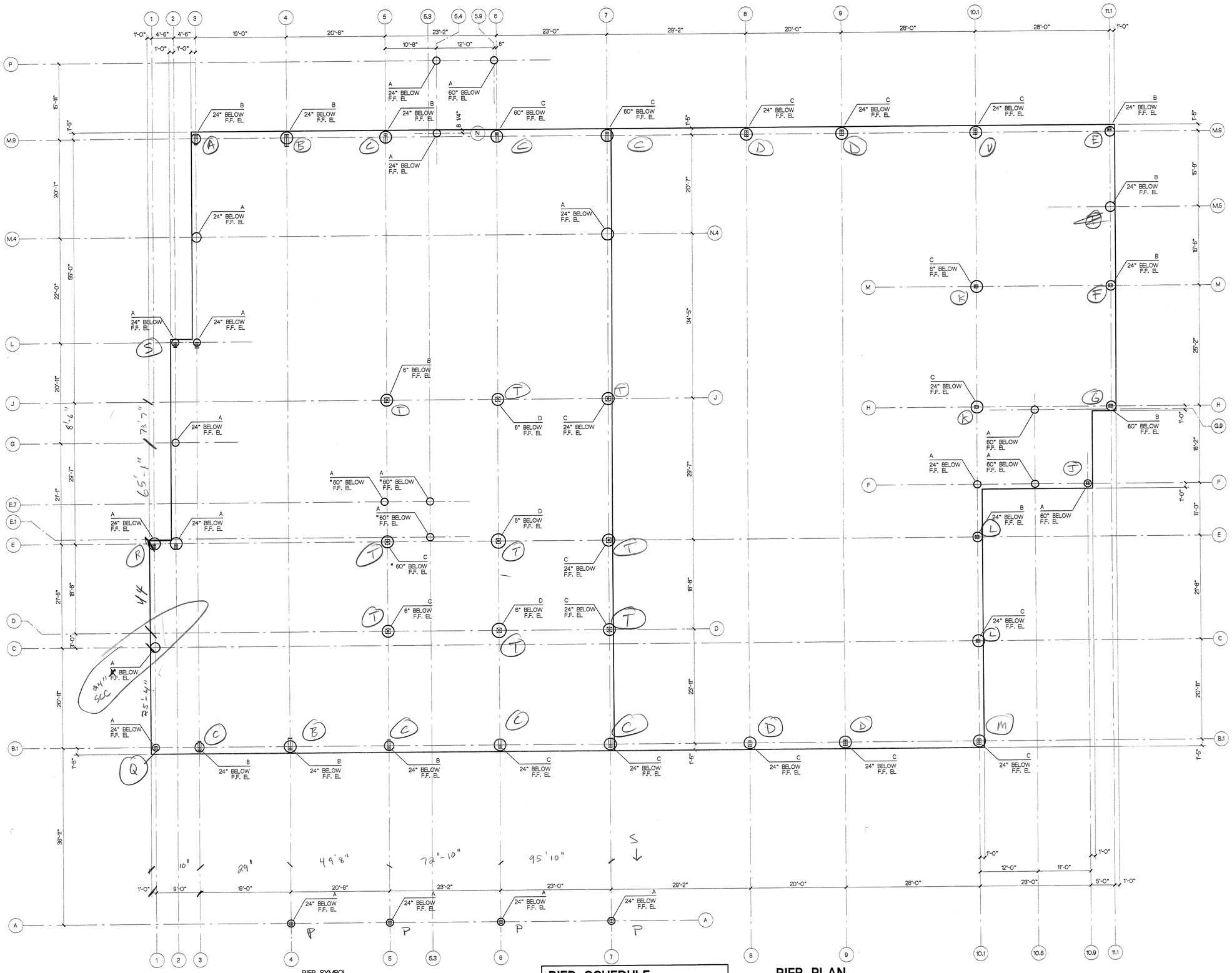
SEPTEMBER 23, 2002

DATE:
09/23/2002

REVISION DATE:

PROJECT NO.
02008

SHEET NO.
S1.0



PIER SYMBOL

PIER SHAFT

A ← PIER MARK (SEE SCHEDULE)

759.33' ← TOP OF PIER ELEVATION

Pier Concr 20' Depth

A	1.30 C.y. - .065 C.y. to 1.F
B	2.32 C.y. - .116 c.y. to 1.F
C	3.63 c.y. - .181 C.y. to 1.F.
D	5.25 c.y. - .261 C.y. to 1.F

PIER SCHEDULE

MARK	PIER/PIER BELL DIAMETER	PIER REINFORCING VERTICAL	PIER REINFORCING TIES	
A	18"	6 - #5	#3 @ 10" O.C.	23 THUS
B	24"	6 - #6	#3 @ 12" O.C.	12 THUS
C	30"	6 - #7	#3 @ 12" O.C.	18 THUS
D	36"	9 - #7	#3 @ 14" O.C.	3 THUS
			Total	56

PIER PLAN

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

PLAN NOTES

1. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
2. FINAL PIER SIZES AND LOCATIONS MUST BE BASED ON LOADS AND DRAWINGS PROVIDED BY PRE-ENGINEERED BUILDING MANUFACTURER. PRE-ENGINEERED BUILDING DRAWINGS NOT AVAILABLE AT THE TIME THESE DRAWINGS WERE ISSUED.
3. * - T.O. PIER ELEVATION MAY CHANGE DEPENDING ON SUMP LOCATION. VERIFY SUMP LOCATION BEFORE PLACING PIER.

REVISIONS

NUMBER	DATE	DESCRIPTION
1	March 20, 2003	REVISED PIER LOCATIONS

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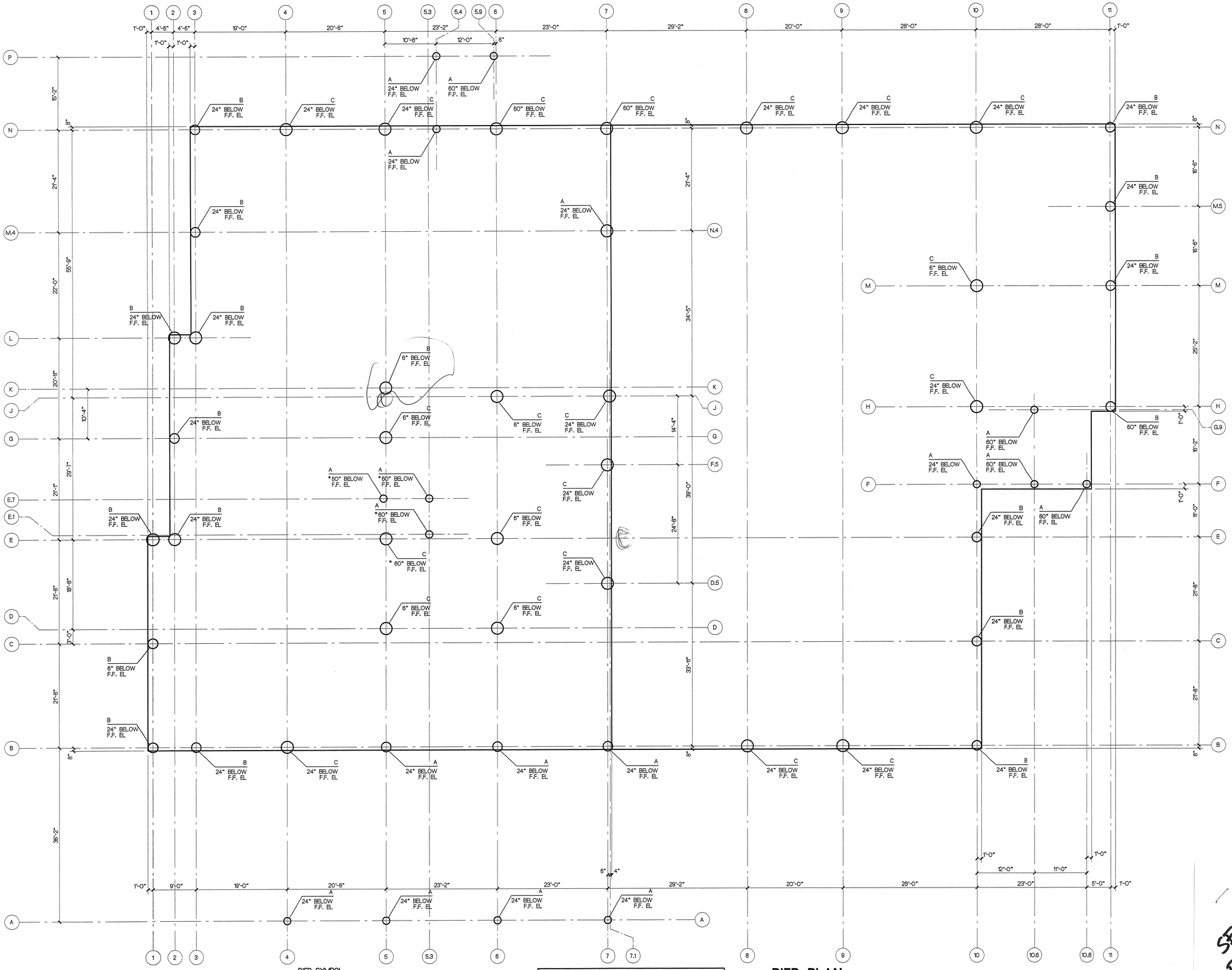
DATE: 09/23/2002

REVISION DATE: 1 03/20/2003

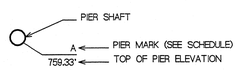
PROJECT NO. 02008

SHEET NO. S2.0

PIER PLAN



PIER SYMBOL



PIER SCHEDULE

MRK	PIER/PIER BELL DIAMETER	PIER REINFORCING	
		VERTICAL	TIES
A	18"	6 - #5	#3 @ 10" O.C.
B	24"	6 - #6	#3 @ 12" O.C.
C	30"	6 - #7	#3 @ 12" O.C.

PIER PLAN

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

PLAN NOTES

1. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
2. FINAL PIER SIZES AND LOCATIONS MUST BE BASED ON LOADS AND DRAWINGS PROVIDED BY PRE-ENGINEERED BUILDING MANUFACTURER. PRE-ENGINEERED BUILDING DRAWINGS NOT AVAILABLE AT THE TIME THESE DRAWINGS WERE ISSUED.
3. * - T.O. PIER ELEVATION MAY CHANGE DEPENDING ON SUMP LOCATION. VERIFY SUMP LOCATION BEFORE PLACING PIER.

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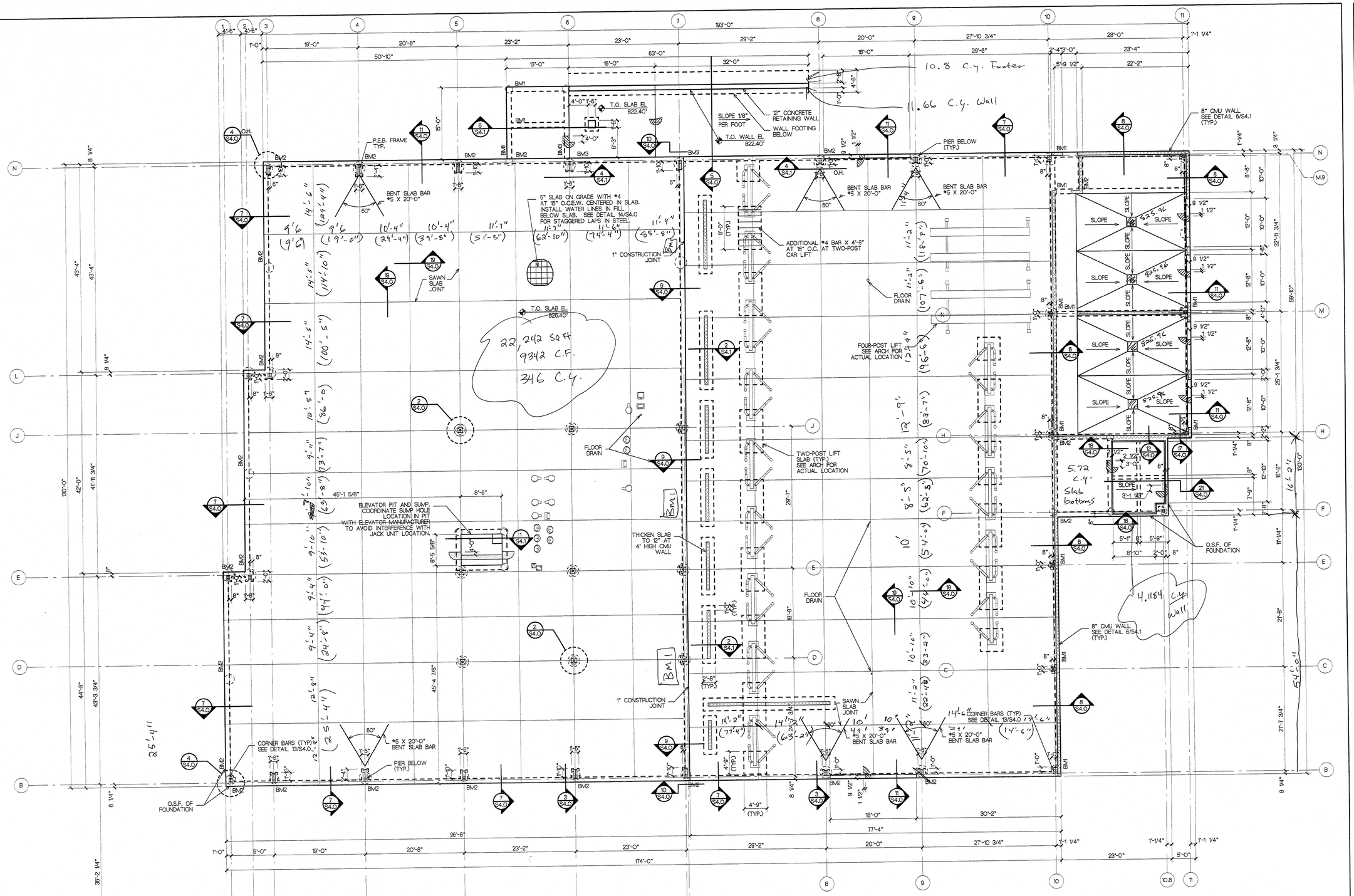
SEPTEMBER 23, 2002

SEE REVISION



FOUNDATION PLAN

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

BEAM SCHEDULE

CONCRETE			REINFORCEMENT			STIRRUPS	
NUMBER	W	H	NO.	SIZE	LOC.	SIZE	SPACING
BM1	12"	24"	3 3	#6 #6	T B	#3	10" O.C.
BM2	12"	24"	2 2	#6 #6	T B	#3	10" O.C.
BM3	12"	60"	2 2	#6 #6	T B	#3	24" O.C.

31 ea. 1'-6" x 2'-0" x 2'-0" Caps

.074 c.y. to Running ft
396 L.F. - 31 c.y.
.074 c.y. to running ft.
141 LF - 39 c.y.
.185 cy ft. l.f.
52 L.F. - 11 c.y.
.022 cy ea.
6.88 c.y.

PLAN NOTES

1. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
2. SHADING INDICATES SLAB AREAS LOWER THAN T.O. SLAB. NOT ALL SHADED AREAS HAVE EQUAL ELEVATIONS.
3. PROVIDE #3 DOWELS @ 24" O.C. FOR FLATWORK ALONG FOUNDATION PERIMETER AS REQUIRED BY ARCHITECT.
4. SEE SECTION 18/S4.0 AND 17/S4.0 FOR PLUMBING PENETRATIONS.
5. ▨ - INDICATES CMU WALL.
6. SEE ARCH FOR PLUMBING FIXTURE LOCATIONS.
7. PROVIDE 8" X 1 1/2" DEEP BLOCK-OUT FOR CMU WALL.

REVISIONS

NUMBER	DATE	DESCRIPTION
1	March 20, 2003	REVISED FRAME LOCATIONS AND PIER CAPS

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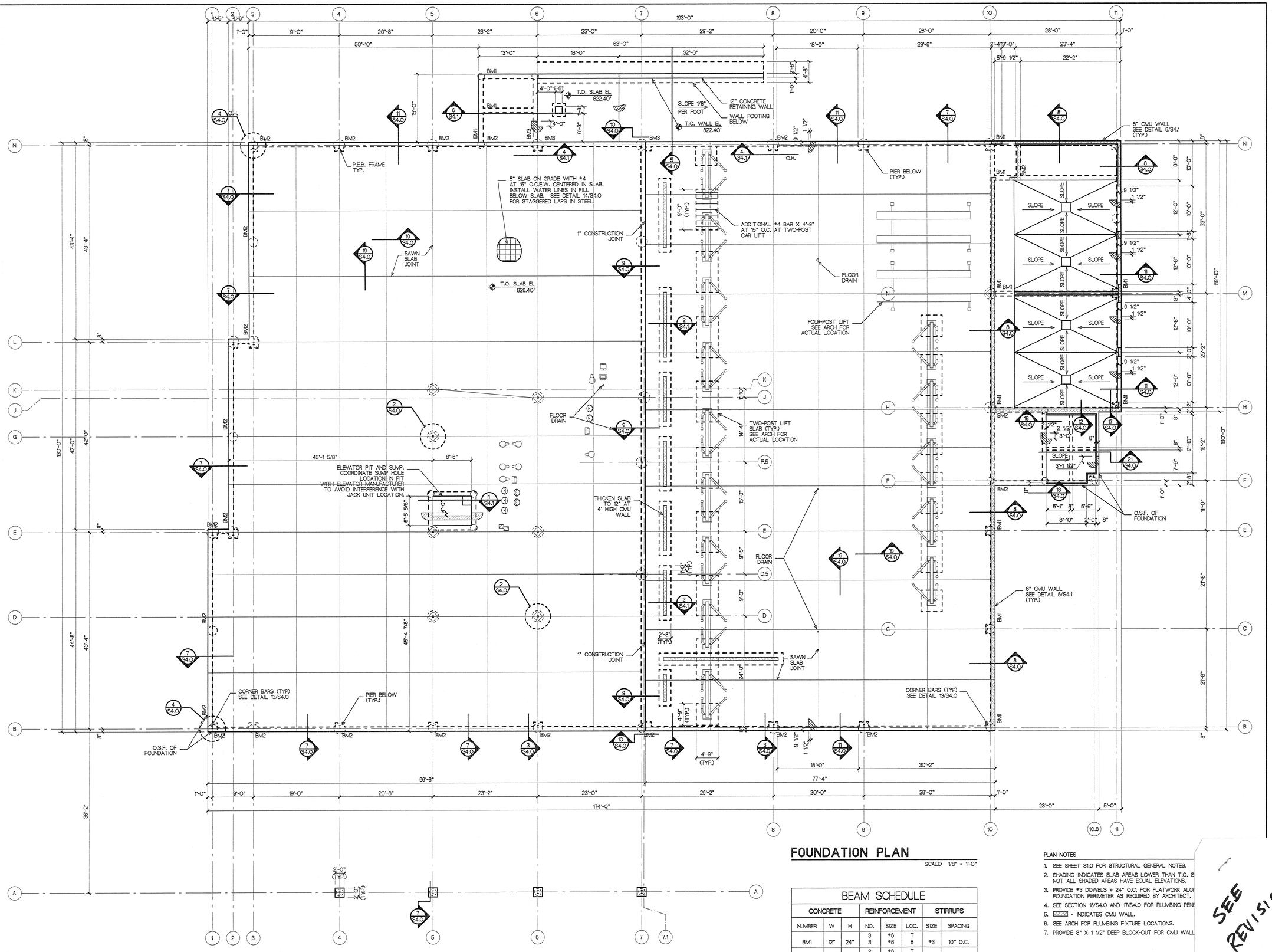
REVISION DATE: 1 03/20/2003

PROJECT NO. 02008

SHEET NO. S3.0

FOUNDATION PLAN



FOUNDATION PLAN

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

BEAM SCHEDULE							
CONCRETE			REINFORCEMENT			STIRRUPS	
NUMBER	W	H	NO.	SIZE	LOC.	SIZE	SPACING
BM1	12"	24"	3 3	#6 #6	T B	#3	10" O.C.
BM2	12"	24"	2 2	#6 #6	T B	#3	10" O.C.
BM3	12"	60"	2 2	#6 #6	T B	#3	24" O.C.

PLAN NOTES

1. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
2. SHADING INDICATES SLAB AREAS LOWER THAN T.O. S NOT ALL SHADED AREAS HAVE EQUAL ELEVATIONS.
3. PROVIDE #3 DOWELS @ 24" O.C. FOR FLATWORK ALON FOUNDATION PERIMETER AS REQUIRED BY ARCHITECT.
4. SEE SECTION 16/S4.0 AND 17/S4.0 FOR PLUMBING PENE
5. ▨ - INDICATES CMU WALL.
6. SEE ARCH FOR PLUMBING FIXTURE LOCATIONS.
7. PROVIDE 8" X 1 1/2" DEEP BLOCK-OUT FOR CMU WALL

SEE REVISION

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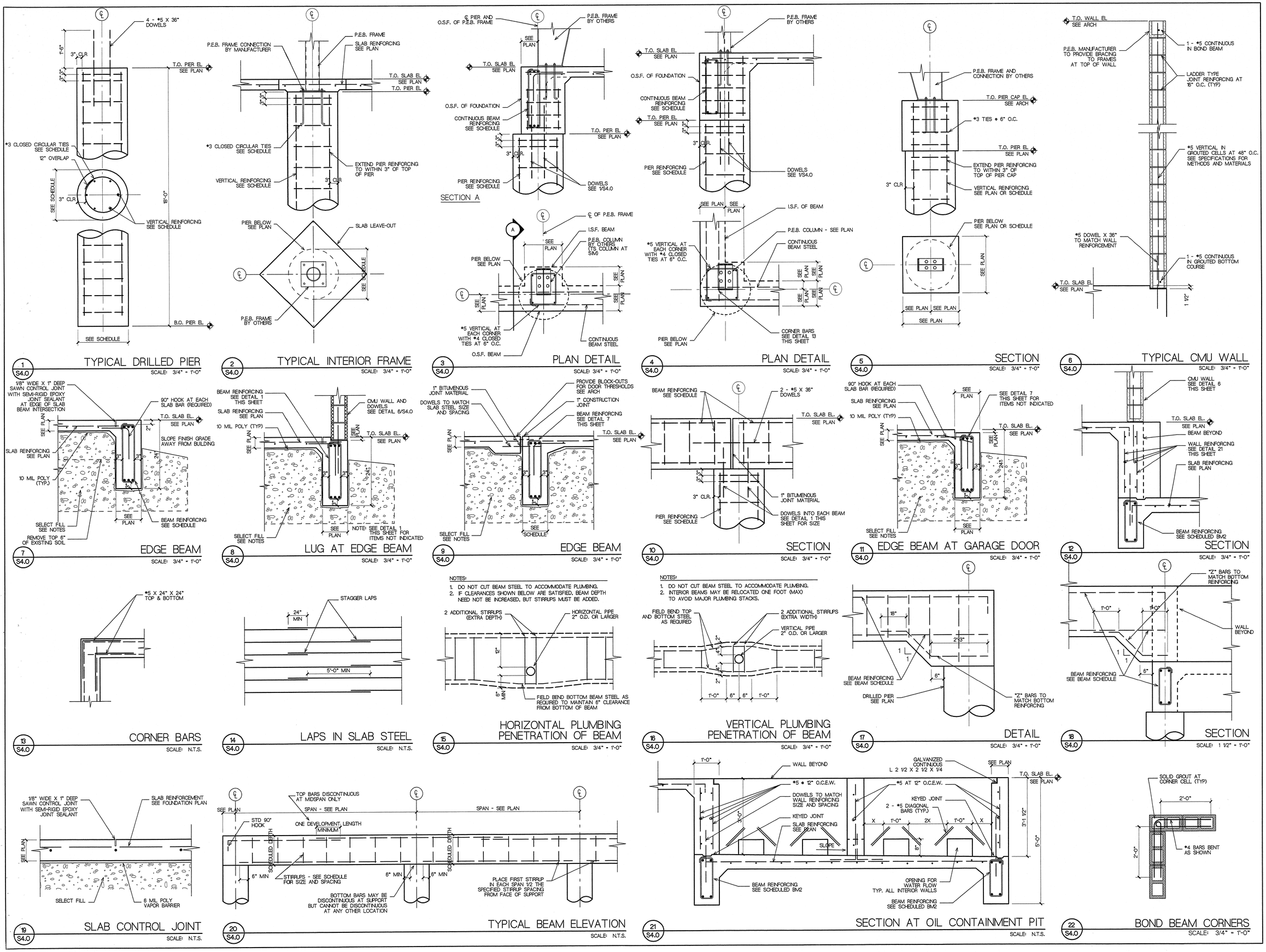

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CONSULTANT SEAL:

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SEPTEMBER 23, 2002

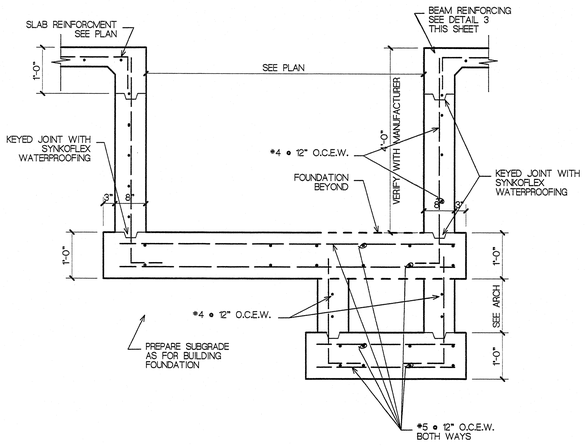
DATE: 09/23/02

REVISION DATE:

PROJECT NO. 02008

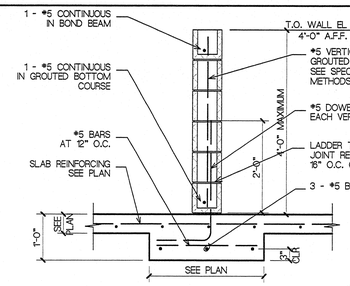
SHEET NO. S4.0

FOUNDATION DETAILS



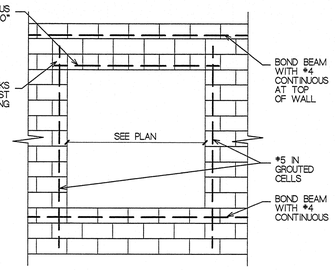
1 S4.1 PIT AND SUMP DETAIL

N.T.S.



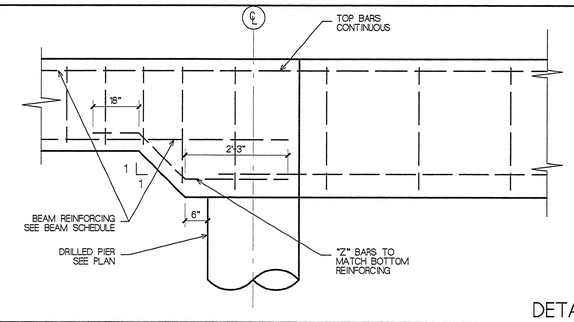
2 S4.1 CMU WALL WITH FOOTING

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



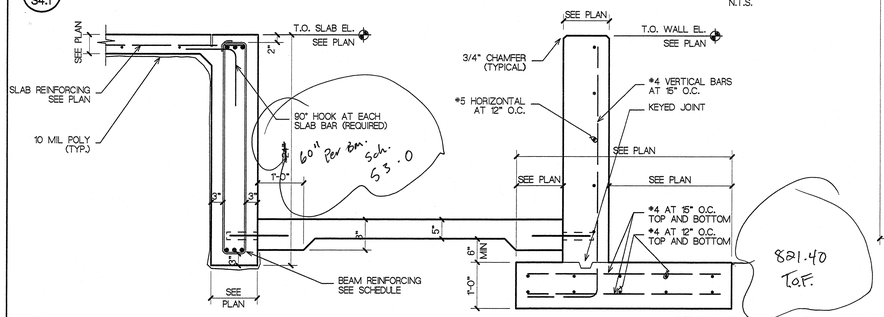
3 S4.1 OPENING IN CMU WALL

SCALE: N.T.S.



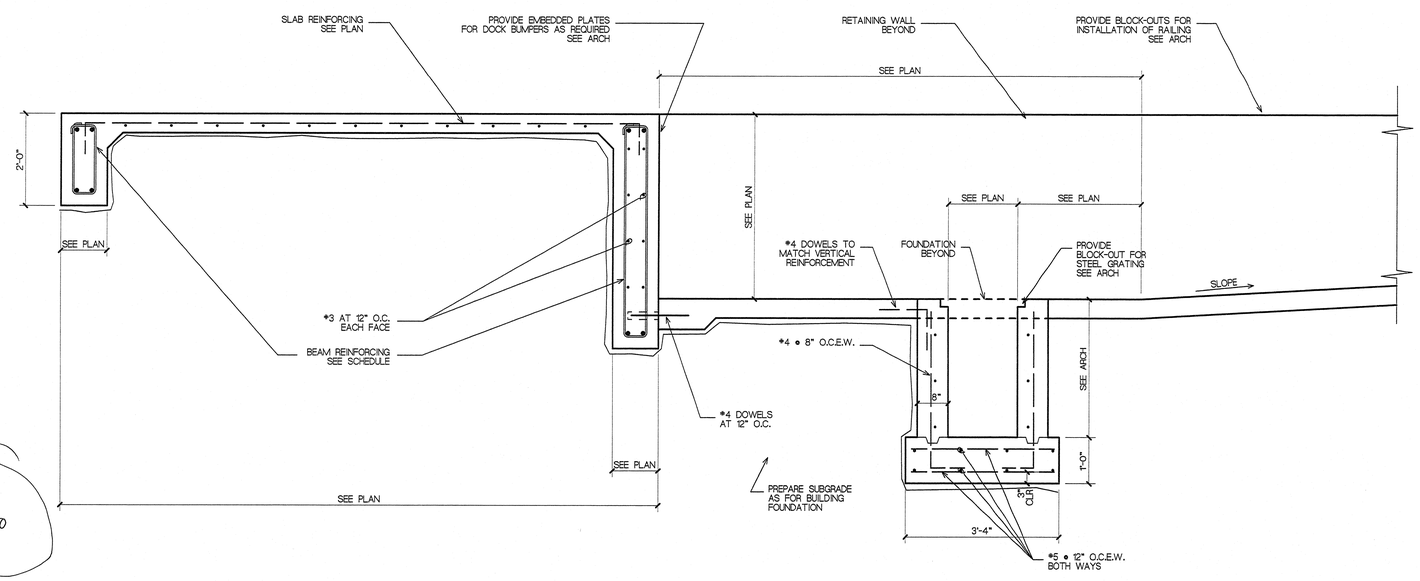
4 S4.1 DETAIL

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



5 S4.1 SECTION

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



6 S4.1 DOCK SECTION

N.T.S.

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REGISTERED PROFESSIONAL ENGINEER

SEPTEMBER 23, 2002

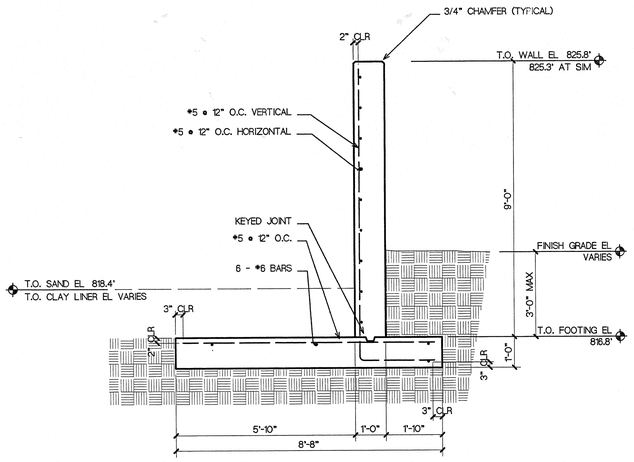
DATE: 09/23/02

REVISION DATE:

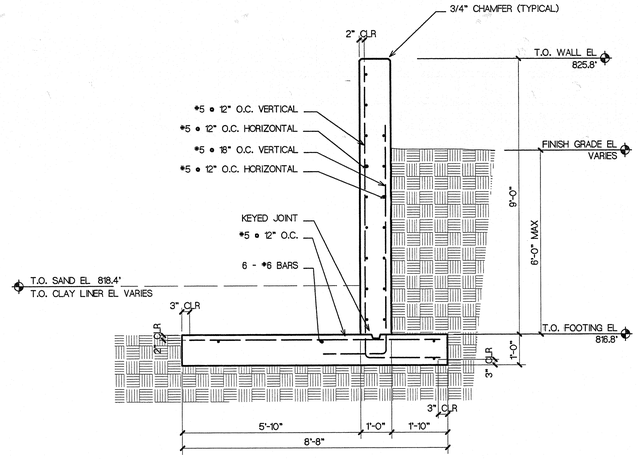
PROJECT NO. 02008

SHEET NO. S4.1

FOUNDATION DETAILS



1 S5.0 SECTION
SCALE: 3/4" = 1'-0"



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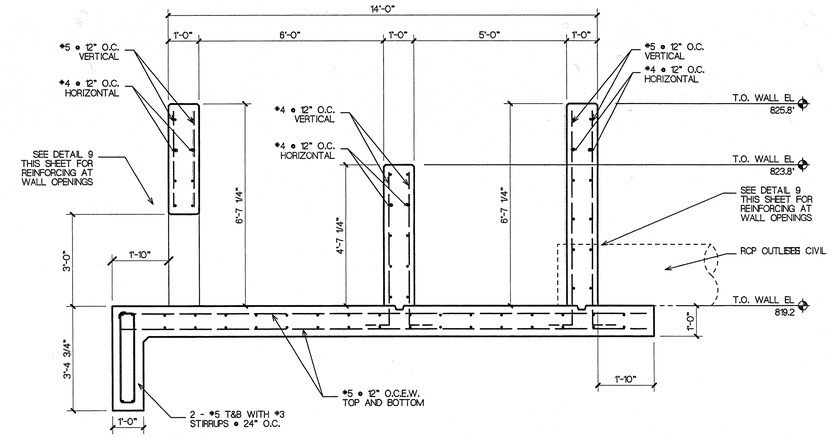

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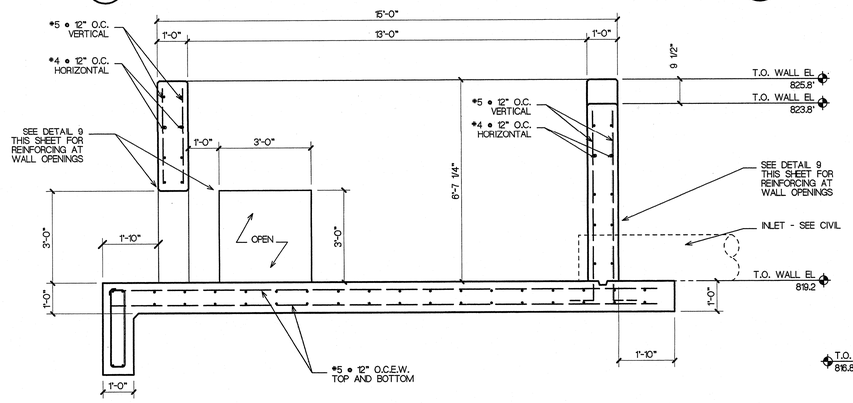

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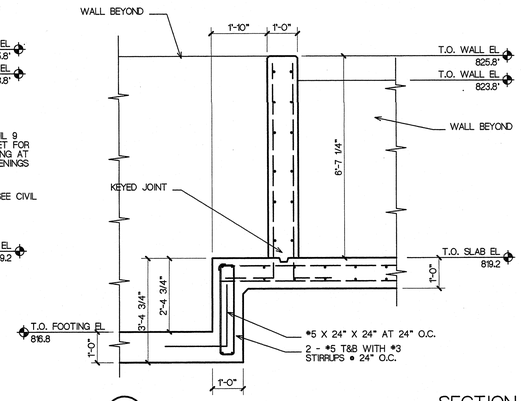

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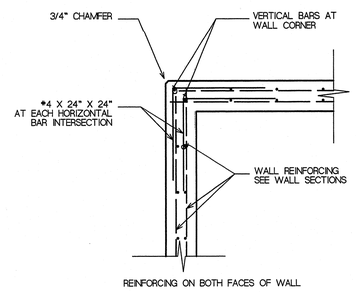
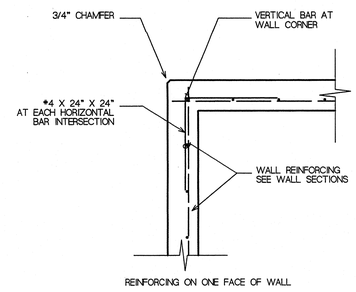
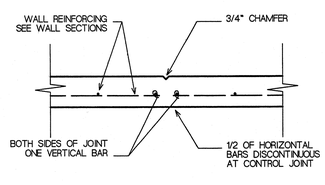


6 S5.0 PLAN DETAIL AT WALL CORNER
SCALE: 3/4" = 1'-0"

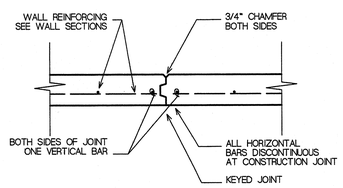


7 S5.0 PLAN DETAIL AT WALL CORNER
SCALE: 3/4" = 1'-0"



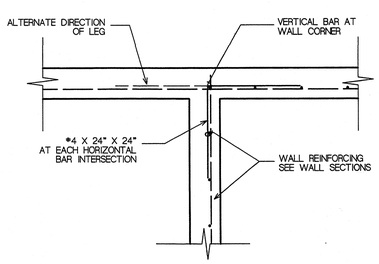
NOTE: SPACE CONTROL JOINTS 12' O.C. MAX

8 S5.0 CONTROL JOINT
SCALE: 3/4" = 1'-0"

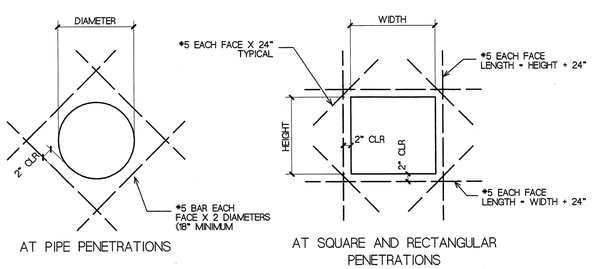


NOTE: SPACE CONSTRUCTION JOINTS 36' O.C. MAX

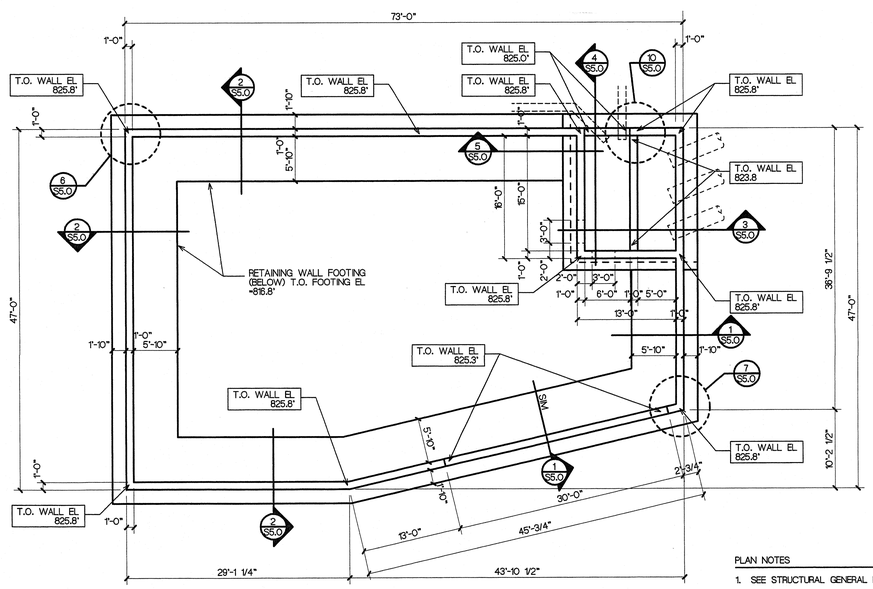
9 S5.0 CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



10 S5.0 PLAN DETAIL AT WALL INTERSECTION
SCALE: 3/4" = 1'-0"



11 S5.0 TYPICAL DETAILS AT WALL PENETRATIONS
SCALE: 3/4" = 1'-0"



SEDIMENTATION/FILTRATION POND PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES

1. SEE STRUCTURAL GENERAL NOTES SHEET S1.0
2. FOR DESIGN PURPOSES, MAXIMUM WATER ELEVATION = 825.8'
3. PROVIDE CONTROL JOINTS IN WALLS AT A MAXIMUM OF 12 FEET SEE DETAIL 8 THIS SHEET
4. WHERE WALL CONSTRUCTION JOINTS ARE NEEDED, SEE DETAIL 9 THIS SHEET

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STATE OF TEXAS
STEVEN MICHAEL CONRAD
87745
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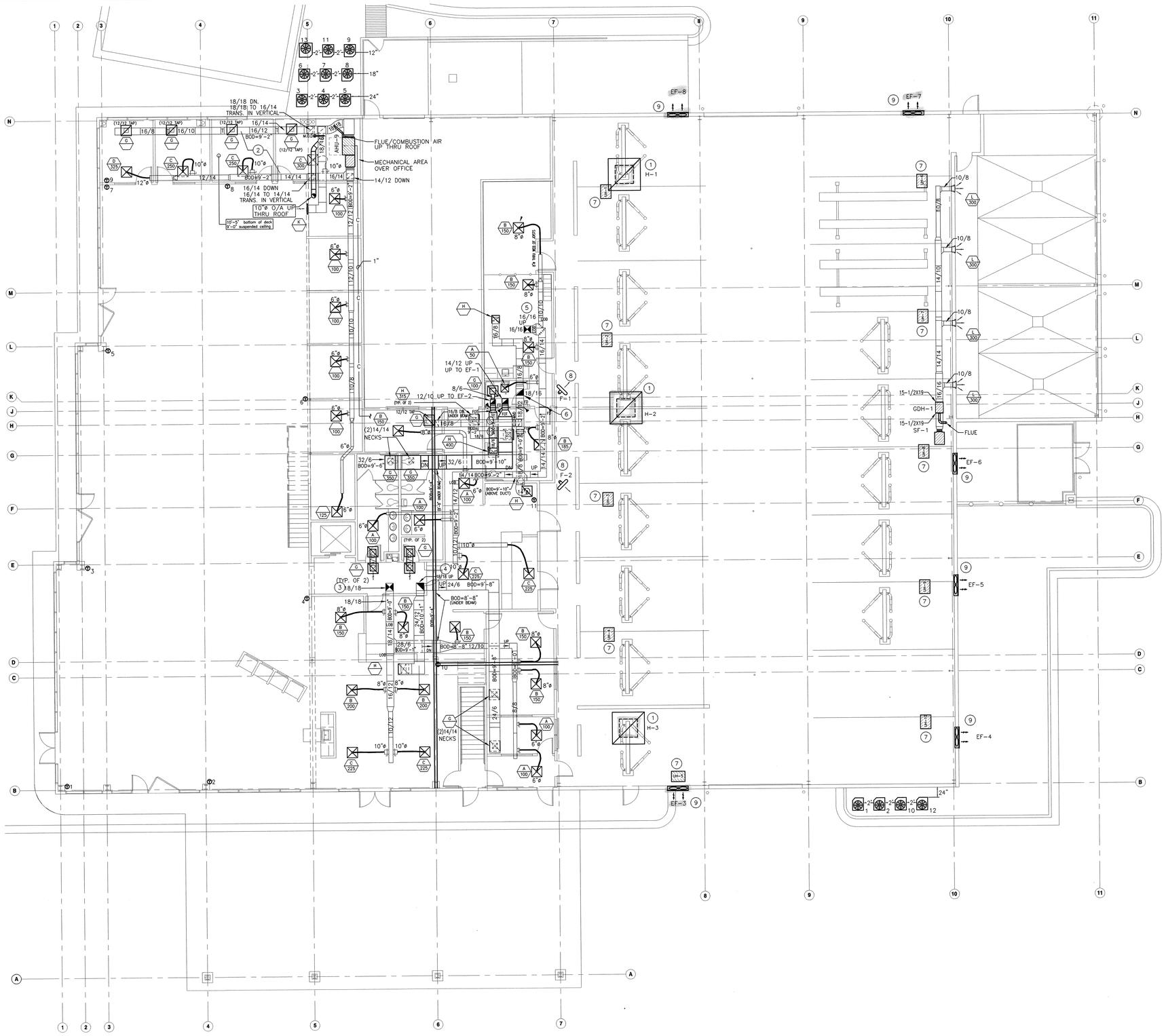
OCTOBER 4, 2002

DATE: 10/04/2002

REVISION DATE:

PROJECT NO. 02008

SHEET NO. S5.0



KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. AIR INTAKE HOODS (H-1 THRU H-3) 12,000 CFM EA @ 0.1" WC. GREENHECK "FABRA-HOOD," OR EQUAL.
2. ROUTE DUCT IN PLENUM SPACE ABOVE OFFICE SUSPENDED CEILING.
3. SUPPLY AIR DUCT UP TO AHU-10 ON SECOND FLOOR.
4. RETURN AIR DUCT UP TO AHU-10 ON SECOND FLOOR.
5. SUPPLY AIR DUCT UP TO AHU-11 ON SECOND FLOOR MECHANICAL DECK.
6. RETURN AIR DUCT UP TO AHU-11 ON SECOND FLOOR MECHANICAL DECK.
7. MOUNT INFRARED HEATERS BETWEEN JOISTS SO THAT HEAT IS NOT DIRECTED ON CAR HOODS. MOUNT AT MANUFACTURER'S RECOMMENDATIONS ON HEIGHT.
8. MOUNT F-1 AND F-2 EIGHT (8) FT. ABOVE FINISHED FLOOR.
9. MOUNT FAN IN WALL AS HIGH AS POSSIBLE.

01 FIRST FLOOR – H.V.A.C. PLAN

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

SHOP OUTSIDE AIR

FLOOR AREA: 10,000 FT2

AVG HT: 20FT

VOLUME: 200,000 FT3

AC/H: 10 MINIMUM

EF-3 THRU EF-8: 36,000 CFM TOTAL

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CONSULTANT SEAL:

MECHANICAL TECHNICAL SERVICES, L.P.
COMFORT SYSTEMS USA
A Comfort Systems USA Company

DATE: 28, July 2003

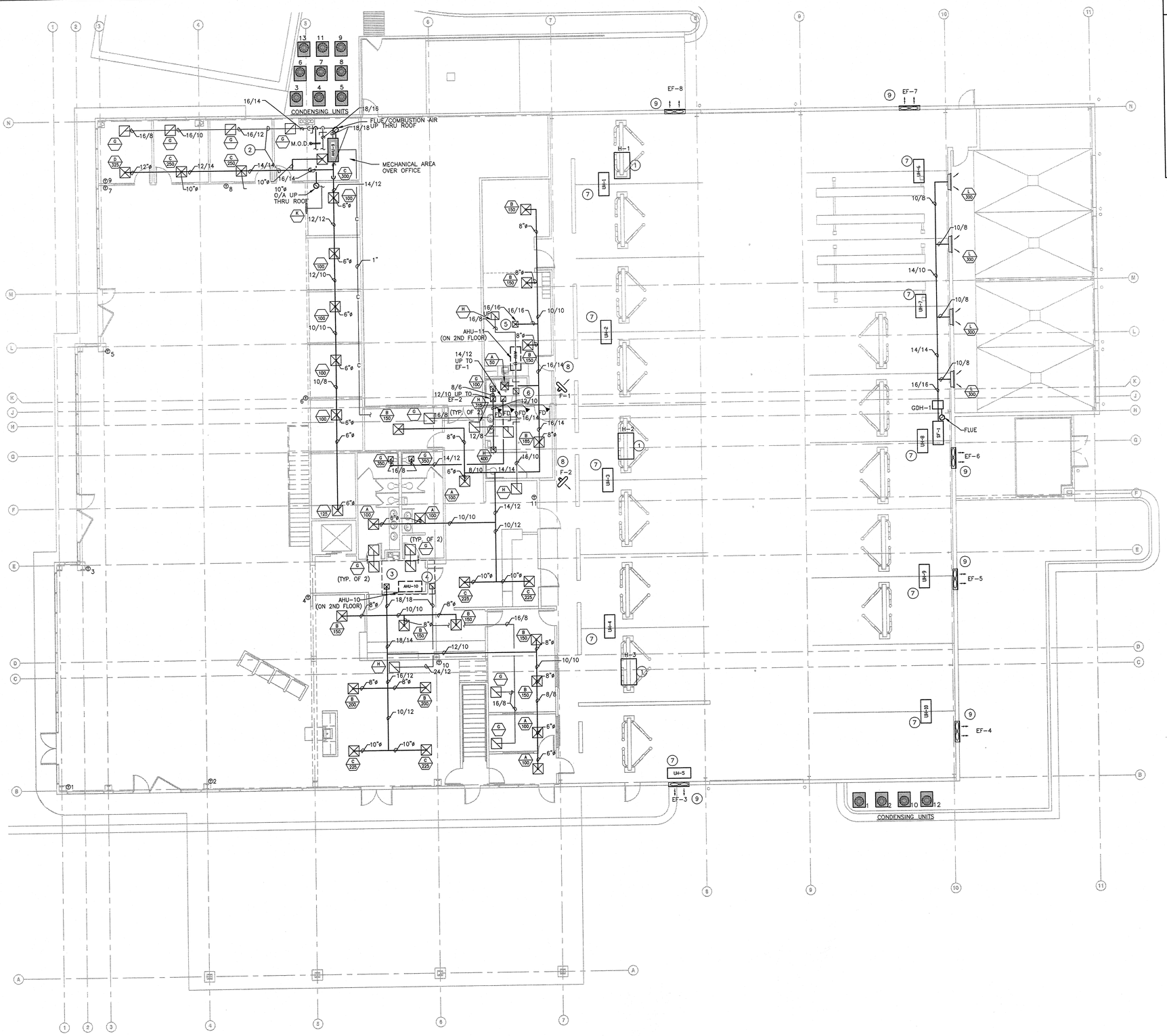
Preliminary Plan
Not For Construction

REVISION DATE:

SHOP DRAWINGS

PROJECT NO.
M-Tech #2406

SHEET NO.
M1.0



01 FIRST FLOOR - H.V.A.C. PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES

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1. AIR INTAKE HOODS (H-1 THRU H-3) 12,000 CFM EA @ 0.1" WC. GREENHECK "FABRA-HOOD," OR EQUAL.
2. ROUTE DUCT IN PLENUM SPACE ABOVE OFFICE SUSPENDED CEILING.
3. SUPPLY AIR DUCT UP TO AHU-10 ON SECOND FLOOR.
4. RETURN AIR DUCT UP TO AHU-10 ON SECOND FLOOR.
5. SUPPLY AIR DUCT UP TO AHU-12 ON SECOND FLOOR MECHANICAL DECK.
6. RETURN AIR DUCT UP TO AHU-12 ON SECOND FLOOR MECHANICAL DECK.
7. MOUNT INFRARED HEATERS BETWEEN JOISTS SO THAT HEAT IS NOT DIRECTED ON CAR HOODS. MOUNT AT MANUFACTURER'S RECOMMENDATIONS ON HEIGHT.
8. MOUNT F-1 AND F-2 EIGHT (8) FT. ABOVE FINISHED FLOOR.
9. MOUNT FAN IN WALL AS HIGH AS POSSIBLE.

SHOP OUTSIDE AIR

FLOOR AREA: 10,000 FT2

AVG HT: 20FT

VOLUME: 200,000 FT3

AC/H: 10 MINIMUM

EF-3 THRU EF-8: 36,000 CFM TOTAL

AN AUTOMOTIVE DEALERSHIP

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PROFESSIONAL ENGINEER

9/20/02

DATE: 04/20/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. M1.0

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M & A job no.: 01-016

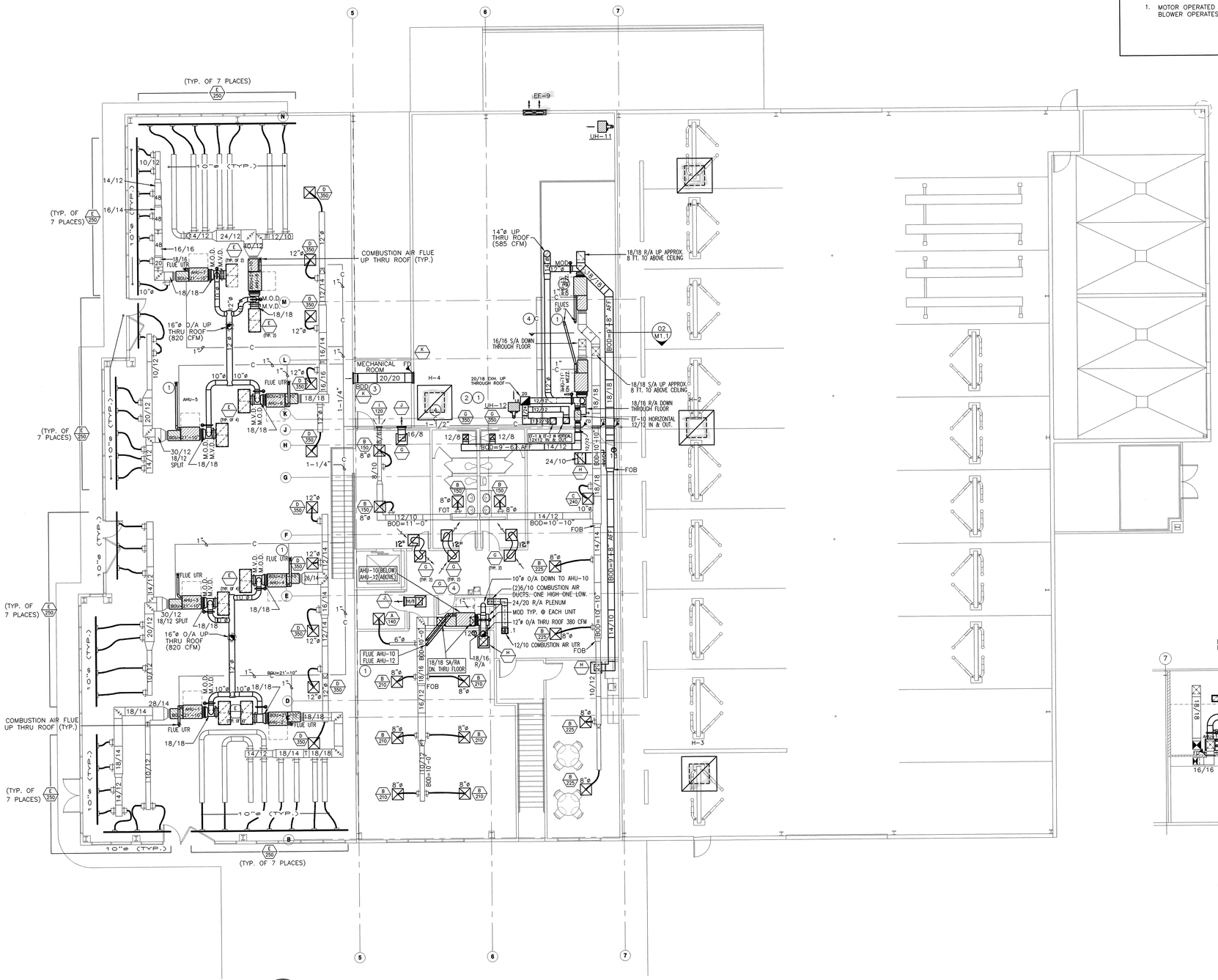
KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

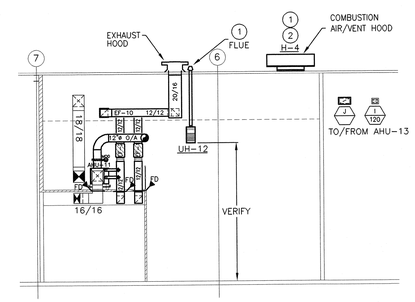
1. FLUES TO BE 10'-0" MINIMUM FROM OUTSIDE AIR INTAKE.
2. AIR INTAKE/COMBUSTION AIR HOOD, 10,000 CFM @ 0.1" WC. GREENHECK "FABRA HOOD" OR EQUAL.
3. INSTALL BACKDRAFT DAMPER IN RELIEF DUCT. SET COUNTER BALANCE @ 0.1" WC.
4. ROUTE CONDENSATE DRAIN TO INDIRECT WASTE RECEPTOR.

SEQUENCE OF OPERATIONS

1. MOTOR OPERATED DAMPERS IN OUTSIDE AIR DUCT OPEN WHEN AIR HANDLER SUPPLY BLOWER OPERATES, CLOSES WHEN AHU BLOWER OFF.



01 SECOND FLOOR – H.V.A.C. PLAN
SCALE: 1/8" = 1'-0"



02 SECTION
SCALE: N.T.S.

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CONSULTANT SEAL:

MECHANICAL TECHNICAL SERVICES, L.P.
COMFORT SYSTEMS USA
A Comfort Systems USA Company

DATE: 28, July 2003

Preliminary Plan
Not For Construction

REVISION DATE:
1 11/19/02

SHOP DRAWINGS

PROJECT NO.
M-Tech #2406

SHEET NO.
M1.1

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. FLUES TO BE 10'-0" MINIMUM FROM OUTSIDE AIR INTAKE.
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SEQUENCE OF OPERATIONS

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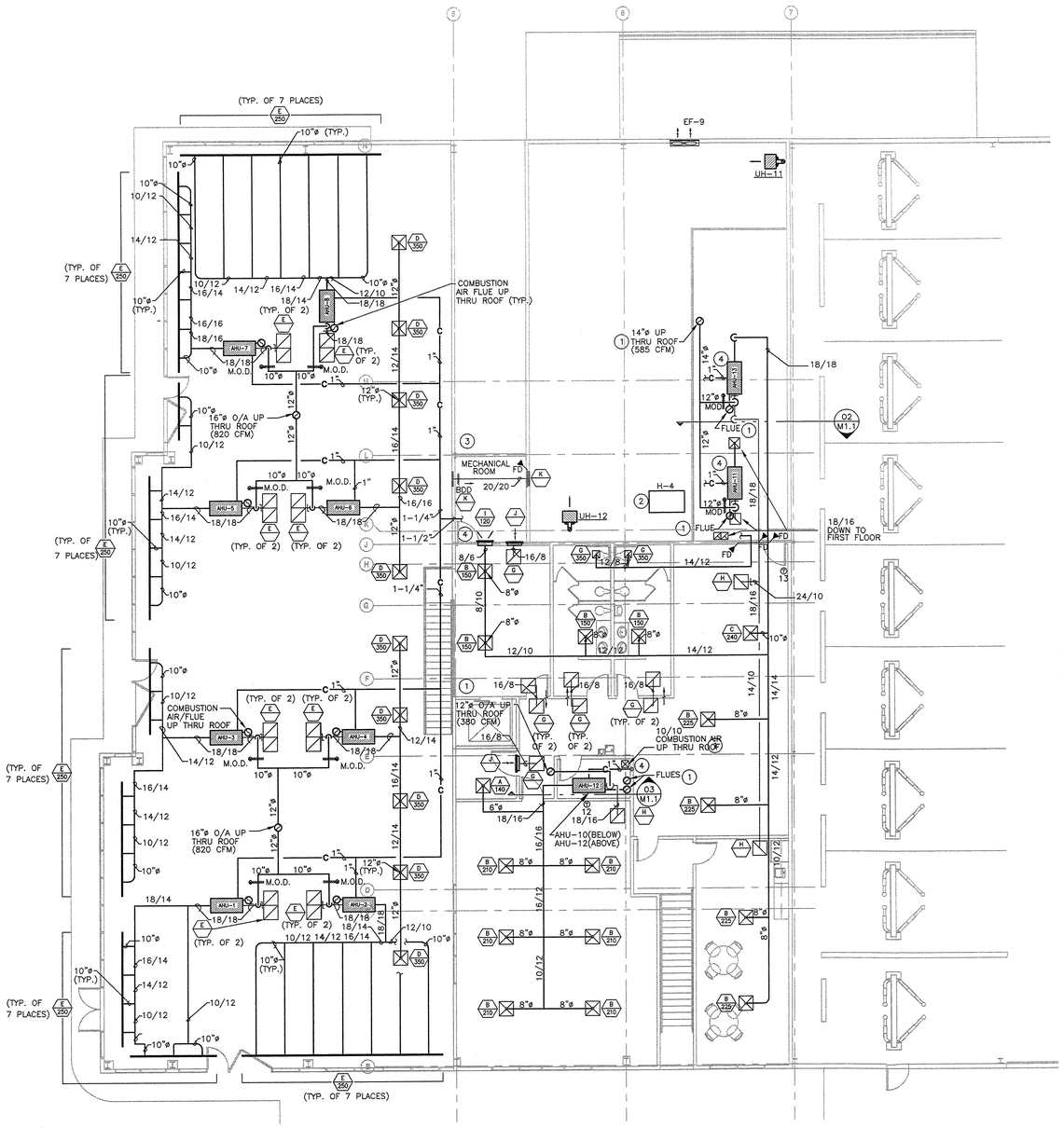
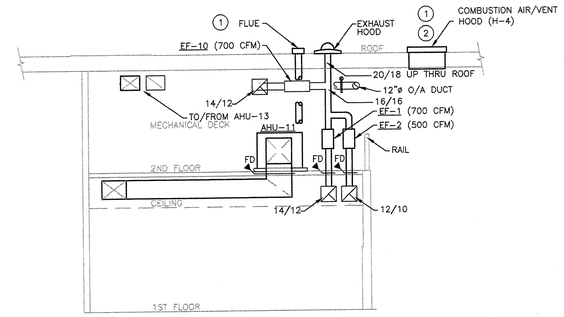


01 SECOND FLOOR - H.V.A.C. PLAN
SCALE: 1/8" = 1'-0"



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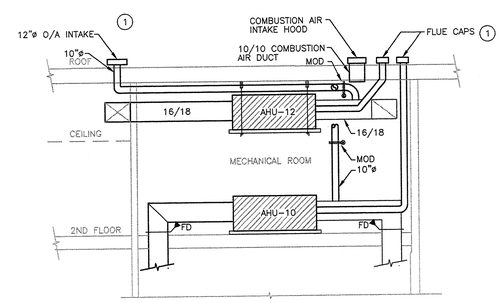

03 AHU-10/12-SECTION
SCALE: N.T.S.

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9/20/02

DATE: 04/20/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. M1.1

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M & A job no.: 01-016

AIR HANDLING UNIT SCHEDULE (GAS FURNACE)

MARK	MANUFACTURER AND MODEL NUMBER	SERVICE	TYPE	OUTSIDE AIR (CFM)	SUPPLY FAN PERFORMANCE CFM	ESP	MAX FAN RPM	BHP	HP	ELEC. SVC.	FURNACE FUEL TYPE	INPUT / CFH	OUTPUT/ BTUH	COOLING COIL EADB/EAWB	LADB/LAWB	TOTAL MBH	SENS. MBH	MCA	MOCP	WEIGHT	REMARKS
AHU-1	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-2	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-3	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-4	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-5	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-6	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-7	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-8	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-9	TRANE TUX120C960D-TXC049C4HPD	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-10	TRANE TUD140C960K-TXC060C5HPC	SERVICE (1ST FLR)	HORIZ./SPLIT	240	1800	1.00			1.50	208V/1ø	NAT. GAS	160	130,000	78.9 / 64.5	55.0 / 54.4	41,600	35,600	15.0	20.0	250	2,3,4,7
AHU-11	TRANE TUD140C960K-TXC049C4HPD	PARTS/BREAK (1ST FLR)	HORIZ./SPLIT	265	1400	1.00			1.50	208V/1ø	NAT. GAS	160	130,000	80.1 / 66.0	56.0 / 55.5	33,400	27,200	9.0	20.0	130	2,3,4,7
AHU-12	TRANE TUX080C960D-TXC036C4HPC	G. MGR / CONF (2ND FLR)	HORIZ./SPLIT	140	1000	0.60			0.75	115V/1ø	NAT. GAS	80	75,000	78.6 / 64.6	55.0 / 54.4	25,000	21,000	9.0	20.0	130	2,3,4,5,7
AHU-13	TRANE TUD140C960K-TXC060C5HPC	OFF / RR (2ND FLR)	HORIZ./SPLIT	320	1860	1.00			1.50	208V/1ø	NAT. GAS	160	130,000	79.5 / 65.2	55.0 / 54.3	51,800	42,800	15.0	20.0	250	2,3,4,7

REMARKS:

1. PROVIDE WITHOUT FILTER.
2. PROVIDE HORIZONTAL CONFIGURATION.
3. PROVIDE WITH VIBRATION ISOLATORS.
4. PROVIDE FLAT FILTER
5. PROVIDE 2-SPEED BLOWER.
6. PROVIDE SMOKE DETECTORS IN SUPPLY DUCT. TIE TO FIRE ALARM SYSTEM.
7. PROVIDE LIQUID LINE SOLENOID VALVE AT AHU THAT OPENS WHEN COMPRESSOR STARTS.

CONDENSING UNIT SCHEDULE- AIR CONDITIONING

MARK	SERVICE	COOLING CAPACITY MBH	MINIMUM SEER	AMBIENT TEMP. °F	COMPRESSOR DATA (V/PH/Hz)	LRA	RLA	FAN DATA (V/PH/Hz)	FLA	MCA	MOCP	REFRIG.	MANUFACTURER MODEL NUMBER	REMARKS
CU-1	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-2	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-3	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-4	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-5	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-6	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-7	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-8	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-9	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	R-22	TRANE 2TTB0048A100	1
CU-10	SERVICE (1ST FLR)	57.5	12.0	105	208/1ø	169	28.8		1.3	37.4	60	R-22	TRANE 2TTB0048A100	
CU-11	PARTS/BREAK (1ST FLR)	42.5	12.0	105	208/1ø	115	19.9		0.7	26.2	45	R-22	TRANE 2TTB0042A100	
CU-12	G. MGR / CONF (2ND FLR)	29.4	11.0	105	208/1ø	65	11.7		0.5	15.3	25	R-22	TRANE 2TTB0030A100	1
CU-13	OFF / RR (2ND FLR)	57.5	12.0	105	208/1ø	169	28.8		1.3	37.4	60	R-22	TRANE 2TTB0060A100	

NOTES:

1. PROVIDE 2-SPEED COMPRESSOR.

GAS UNIT HEATER SCHEDULE

MARK	TYPE	INPUT (CFH)	OUTPUT (BTUH)	UNIT VOLTAGE	FAN DATA CFM	HP	VOLTAGE	MANUFACTURER MODEL NO.	REMARKS
UH-1	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-2	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-3	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-4	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-5	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-6	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-7	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-8	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-9	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-10	INFRARED	30	30,000	115V/1ø	N/A			STERLING SHR35	2
UH-11	PROPELLER	45	36,450	115V/1ø	380	1/50	115/1	STERLING OVF045	1
UH-12	PROPELLER	45	36,450	115V/1ø	380	1/50	115/1	STERLING OVF045	1

1. PROVIDE THERMOSTAT MOUNTS ON UNIT.
2. PROVIDE WALL SWITCH TO TURN UNIT ON-OFF.

AIR DEVICE SCHEDULE

MARK	NECK SIZE	FRAME SIZE	FRAME TYPE	VOLUME DAMPER	SUPPLY	RETURN	EXHAUST	REMARKS	FLEX.
A	6"ø	24 X 24	LAY-IN	●	●			TITUS TDC	
B	8"ø	24 X 24	LAY-IN	●	●			TITUS TDC	
C	10"ø	24 X 24	LAY-IN	●	●			TITUS TDC	
D	12"ø	24 X 24	LAY-IN	●	●			TITUS TDC	
E	10"ø	3-3/4"	SLOT	●	●			TITUS ML-38 MPI-38 INSUL. PLENUM	
F	22 X 22	24 X 24	LAY-IN			●		TITUS 50FF	
G	14 X 14	24 X 24	LAY-IN			●		TITUS 50F	
H	22 X 22	24 X 24	LAY-IN			●		TITUS 50F	
I	8 X 6	10 X 8	SIDEWALL	●	●			TITUS 300RS	
J	8 X 16	10 X 18	SIDEWALL			●		TITUS 50F	
K	18 X 16	20 X 18	SIDEWALL			●		TITUS 50F	
L	10 X 6	12 X 8	SIDEWALL	●	●			TITUS 50F	

NOTES:

1. COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. ALL SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE.
3. ALL FLEX SHALL BE SIZED AS SCHEDULED UNLESS NOTED OTHERWISE.
4. ALL DIFFUSERS SHALL BE OFF-WHITE UNLESS NOTED OTHERWISE.
5. VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE OF AIR DEVICES.
6. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.

FAN SCHEDULE

MARK	PERFORMANCE SERVICE	TYPE	LOCATION	CFM	ESP	RPM	ELECTRICAL BHP	MOTOR HP	RPM	SERVICE	WEIGHT	MANUFACTURER AND MODEL NUMBER	REMARKS
EF-1	SHOWROOM R/R	CENTRIFUGAL	INLINE	700	1.00	2,376	0.36	1/2	3450	115V/1ø	125	COOK #80SQN-B	1,3,5
EF-2	SERVICE R/R	CENTRIFUGAL	INLINE	500	1.00	2,040	0.24	1/2	3450	115V/1ø	125	COOK #70SQN-B	1,3,5
EF-3	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-4	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-5	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-6	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-7	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-8	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-9	PARTS STORAGE	PROPELLER	WALL	10,000	0.25	454		3/4		115V/1ø		COOK #42XMW	3,4
F-1,F-2	SERVICE BAY	PROPELLER	COLUMN	6,900	0.00	1140	0.28	1/3	1140	115V/1ø	240	Redd-i, Inc. MCD30 - 1/3	2,6
SF-1	WASH BAYS	CENTRIFUGAL	CABINET	1,200	0.75	1430	0.32	1/2		115V/1ø	80	COOK #SDB-120	3,5
EF-10	2ND FLR. R/R	CENTRIFUGAL	INLINE	700	1.00	2376	0.36	1/2	3450	115V/1ø	125	COOK #80SQN-B	1,3,5

REMARKS:

1. FURNISH WITH BACKDRAFT DAMPERS.
2. DIRECT DRIVE
3. BELT DRIVE
4. PROVIDE WITH GRAVITY SHUTTER, MOUNTING FRAME FOR FLUSH MOUNT ON EXTERIOR AND GUARD.
5. PROVIDE RUBBER-IN-SHEAR VIBRATION ISOLATORS
6. FURNISH WITH STEEL COLUMN SWIVEL MOUNT.

GAS DUCT HEATER SCHEDULE

MARK	TYPE	SERVICE	CFM	DUCT SIZE	S.P.	FUEL TYPE	TEMP. RISE	INPUT (BTUH)	OUTPUT (BTUH)	FLUE SIZE	MANUFACTURER MODEL NO.	REMARKS
GDH-1	DUCT FURNACE	WASH BAYS	1200	15-1/2 X 19	0.3	NAT. GAS	60°F	100,000	80,000	4"	STERLING OVED100A2N2AA100	

REMARKS:

OUTSIDE AIR CALCULATION

AREA SERVED	ZONE	SQUARE FEET	CFM/FT2	REQ'D O/A	ACTUAL O/A
SHOWROOM/VEH. MGR	1 & 4	6047	0.30	1818	1845
SERVICE	2	1695	0.14	240	240
PARTS/BREAK	3	1880	0.14	265	265
GEN. MGR/CONFERENCE	5	1026	0.14	140	140
OFFICE	6	2288	0.14	320	320

EXHAUST AIR CALCULATION

AREA SERVED	SQUARE FEET	CFM/FT2	REQ'D EXH. CFM	SUPPLIED EXH. CFM
1ST FL. RESTROOM	336	2.0	672	700
2ND FL. RESTROOM	336	2.0	672	700
SHOP MENS RESTROOM	182	2.0	364	400
SHOP WOMENS RESTROOM	40	2.0	80	100

GENERAL NOTES

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B. ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE, & FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, UNIFORM BUILDING CODE, UNIFORM MECHANICAL CODE, UNIFORM PLUMBING CODE, NATIONAL ELECTRICAL CODE, AGA AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE STATUTES GOVERN.

C. ALL CONTRACTORS SHALL COORDINATE THROUGH THE PROJECT CONSTRUCTION MANAGER.

D. PROVIDE P-TRAP AT EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS. ROUTE NEW CONDENSATE DRAIN LINE FROM EACH UNIT TO THE NEAREST DEEP SEAL TRAP ABOVE CEILING OR NEAREST CODE APPROVED POINT OF DISCHARGE. MECHANICAL AND PLUMBING CONTRACTORS ARE TO COORDINATE LOCATION. CONDENSATE PIPING IS TO BE TYPE "M" COPPER WITH WROUGHT COPPER FITTINGS AND INSULATED WITH 3/4" ARMAFLEX TYPE AP. GLUE ALL JOINTS. PROVIDE CLEANOUT PLUG AT END OF EACH MAIN RUN. SLOPE ALL PIPING TO DRAIN AT MINIMUM 1/8" PER FOOT. DRAINS SHALL BE SIZED IN ACCORDANCE WITH EQUIP. CAPACITIES. RE: SPECIFICATIONS. *MINIMUM SIZE OF DRAIN SHALL NOT BE SMALLER THAN DRAIN OUTLET SIZE FOR UNIT

E. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

F. TRANSITION FROM DUCT SIZE SHOWN TO EQUIPMENT. ALLOW FOR CLEARANCE BETWEEN STRUCTURAL JOISTS.

G. PROVIDE FLEXIBLE CONNECTIONS AT ALL SUPPLY AND RETURN DUCTS FROM UNITS.

H. TRANSITION FROM EXHAUST DUCT SIZE TO ROOF OPENING SIZE FOR HOODS AND EXHAUST FANS.

I. PROVIDE HEAVY DUTY LOCKABLE PLASTIC THERMOSTAT COVERS.

J. CONFIRM LOCATION & MOUNTING HEIGHT OF EACH THERMOSTAT WITH OWNER PRIOR TO INSTALLATION.

K. COORDINATE PLACEMENT AND SUPPORTS FOR ALL EQUIPMENT WITH STRUCTURAL ENGINEER DURING STRUCTURAL SHOP DRAWING PHASE.

L. BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS. COORDINATE ALL UTILITY TIE-INS WITH OWNER.

M. COORDINATE LOCATION OF ALL EQUIPMENT, AIR DEVICES, ECT... WITH ALL OTHER TRADES.

N. FIRE SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH FIRE WALLS, CEILINGS AND TUNNELS. RE: SPECIFICATIONS.

O. INSTALL CLEAN SET OF FILTERS THROUGHOUT AT COMPLETION OF PROJECT.

P. MAINTAIN A MINIMUM OF 30" CLEAR ON ACCESS SIDE OF ALL UNITS.

R. THE CONTRACTORS SHALL COORDINATE DUCT, PIPING, CONDUIT AND EQUIPMENT SUPPORTS WITH RATED CEILING INSTALLATION PRIOR TO INSTALLATION ON BOTTOM OF STRUCTURE. SEAL ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE ASSEMBLY.

S. PROVIDE ENGRAVED LABELS FOR ALL EQUIPMENT. LABEL ALL THERMOSTATS TO CORRESPONDING EQUIPMENT NUMBER.

T. THE MECHANICAL CONTRACTOR IS TO COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION.

U. THE CONTRACTOR IS TO DEMONSTRATE OPERATION OF A/C UNITS, EXHAUST FANS, AND ALL OTHER MECHANICAL EQUIPMENT AND SYSTEMS TO MAINTENANCE PERSONNEL UPON COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SPARE PARTS LISTS, MANUALS AND OPERATING PROCEDURES FOR ALL EQUIPMENT TO PERSONNEL AT THE TIME OF DEMONSTRATION. PROVIDE OWNER WITH A TYPED LIST OF ALL NEW AND EXISTING EQUIPMENT, INDICATING MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, PHASE, EVAPORATOR HP, CONDENSATE FAN HP, ETC.

V. PROVIDE RIGID ROUND SHEETMETAL DUCTWORK FOR DIFFUSER RUN-OUTS GREATER THAN 5 FEET. ALL RIGID ROUND DUCTWORK IS TO BE EXTERNALLY INSULATED. PROVIDE ATCO SERIES 36 OR APPROVED EQUAL FLEXIBLE DUCTWORK.

W. FIELD LOCATE AND ROUTE ALL EXHAUST FANS AND EXHAUST DUCTS THAT ARE NOT CLEARLY SHOWN IN THE DRAWINGS.

X. ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH 2" EXTERNAL BLANKET WRAP INSULATION.

Y. WHERE A BRANCH DUCT IS SHOWN TO CONNECT TO A TRUNK DUCT OF EQUAL DEPTH OR SMALLER, THE BRANCH DUCT SHALL CONNECT TO THE TOP OR BOTTOM OF THE TRUNK DUCT OR A RECTANGULAR TAP WITH EXTRACTOR AND V.D. OF EQUAL CROSS SECTIONAL AREA SHALL BE MADE WITH A TRANSITION. AT CONTRACTORS OPTION, THE TRUNK DUCT MAY BE REVISED IF REVIEWED AND APPROVED BY THE ENGINEER.

Z. COMFORT BALANCE ALL HVAC SYSTEMS TO OBTAIN +/- 2 DEG.F. VARIATION THROUGHOUT THE SPACE BALANCE IN ACCORDANCE WITH NEBB. CALIBRATE ALL THERMOSTATS.

AA. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT INSTALL OR FABRICATE ANY WORK SHOWN UNTIL ALL SUCH WORK IS FULLY COORDINATED. NOT ALL OFFSETS AND FITTINGS ARE SHOWN. PROVIDE OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS AT NO ADDITIONAL COSTS TO THE OWNER.

BB. GUARANTEE WORK FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS WORKMANSHIP.

CC. SYMBOLS SHOWN ARE ILLUSTRATIVE IN NATURE AND ARE PROVIDED ONLY FOR USE AS REFERENCE.

DD. CONTRACTOR TO VERIFY ALL REQUIRED FLOOR/CEILING AND WALL PENETRATIONS. COORDINATE ALL PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.

EE. CONTRACTOR TO FIELD COORDINATE ALL DUCT SIZES AND LOCATIONS. CONTRACTOR TO INSTALL EQUIVALENT SIZES AND ALTERNATE ROUTINGS WHERE NECESSARY FOR PROPER FIT AND FUNCTION.

AN AUTOMOTIVE DEALERSHIP
ROGER BEASLEY VOLVO
INTERSTATE HIGHWAY 35 SOUTH
GEORGETOWN, TEXAS

ELSASSER ARCHITECTURAL INC.
ARCHITECTURE AND PLANNING
P.O. BOX 833 GEORGETOWN, TX 78627
(512) 930-5353 FAX (512) 930-2618 www.ela-tx.com

CONSULTANT SEAL:

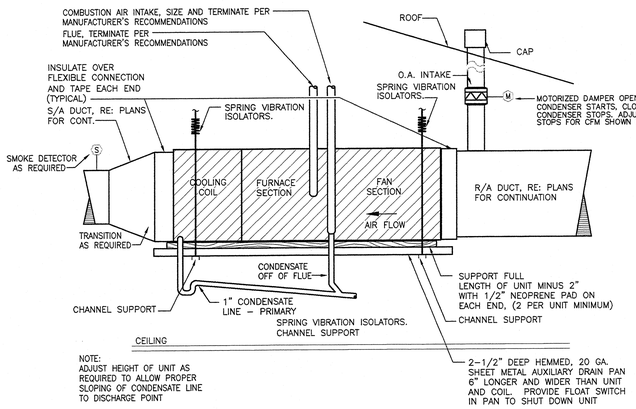
MECHANICAL TECHNICAL SERVICES, L.P.
COMFORT SYSTEMS USA
A Comfort Systems USA Company

DATE: 28, July 2003

REVISION DATE:
SHOP DRAWING

PROJECT NO.
M-Tech #2406

SHEET NO.
M2.0



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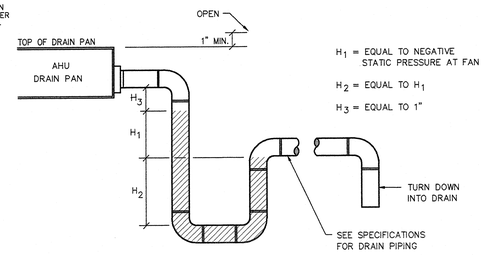

02 DRAW-THRU COND. DRAIN DETAIL
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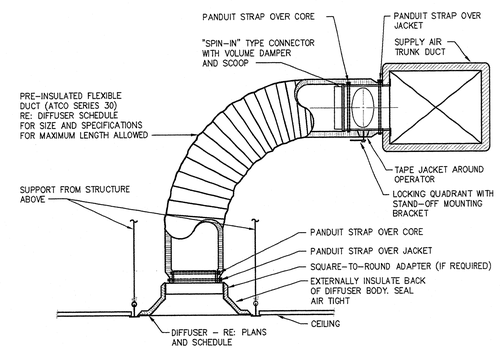

03 CEILING DIFFUSER DETAIL
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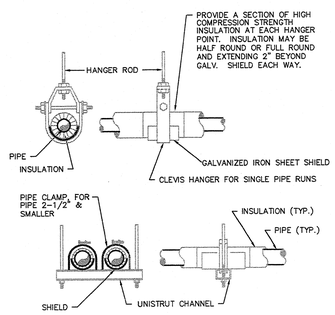

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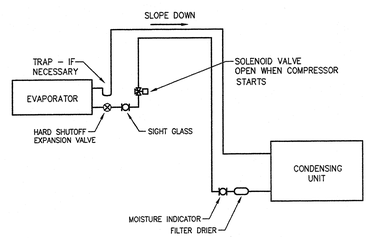

05 REFRIGERANT PIPING DETAIL
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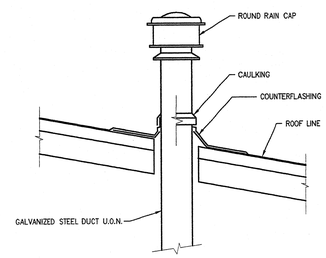

06 EXHAUST VENT/O.A. INTAKE DETAIL
SCALE: N.T.S.

AN AUTOMOTIVE DEALERSHIP
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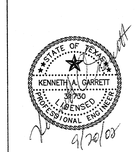
CONSULTANT SEAL:



DATE: 04/20/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. M2.0

MYERS & ASSOCIATES

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M & A job no.: 01-016

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S. PROVIDE ENGRAVED LABELS FOR ALL EQUIPMENT. LABEL ALL THERMOSTATS TO CORRESPONDING EQUIPMENT NUMBER.

T. THE MECHANICAL CONTRACTOR IS TO COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION.

U. THE CONTRACTOR IS TO DEMONSTRATE OPERATION OF A/C UNITS, EXHAUST FANS, AND ALL OTHER MECHANICAL EQUIPMENT AND SYSTEMS TO MAINTENANCE PERSONNEL UPON COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SPARE PARTS LISTS, MANUALS AND OPERATING PROCEDURES FOR ALL EQUIPMENT TO PERSONNEL AT THE TIME OF DEMONSTRATION. PROVIDE OWNER WITH A TYPED LIST OF ALL NEW AND EXISTING EQUIPMENT, INDICATING MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, PHASE, EVAPORATOR HP, CONDENSATE FAN HP, ETC.

V. PROVIDE RIGID ROUND SHEETMETAL DUCTWORK FOR DIFFUSER RUN-OUTS GREATER THAN 5 FEET. ALL RIGID ROUND DUCTWORK IS TO BE EXTERNALLY INSULATED. PROVIDE ATCO SERIES 36 OR APPROVED EQUAL FLEXIBLE DUCTWORK.

W. FIELD LOCATE AND ROUTE ALL EXHAUST FANS AND EXHAUST DUCTS THAT ARE NOT CLEARLY SHOWN IN THE DRAWINGS.

X. ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH 2" EXTERNAL BLANKET WRAP INSULATION.

Y. WHERE A BRANCH DUCT IS SHOWN TO CONNECT TO A TRUNK DUCT OF EQUAL DEPTH OR SMALLER, THE BRANCH DUCT SHALL CONNECT TO THE TOP OR BOTTOM OF THE TRUNK DUCT OR A RECTANGULAR TAP WITH EXTRACTOR AND V.D. OF EQUAL CROSS SECTIONAL AREA SHALL BE MADE WITH A TRANSITION. AT CONTRACTORS OPTION, THE TRUNK DUCT MAY BE REVISED IF REVIEWED AND APPROVED BY THE ENGINEER.

Z. COMFORT BALANCE ALL HVAC SYSTEMS TO OBTAIN +/- 2 DEG.F. VARIATION THROUGHOUT THE SPACE BALANCE IN ACCORDANCE WITH NEBB. CALIBRATE ALL THERMOSTATS.

AA. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT INSTALL OR FABRICATE ANY WORK SHOWN UNTIL ALL SUCH WORK IS FULLY COORDINATED. NOT ALL OFFSETS AND FITTINGS ARE SHOWN. PROVIDE OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS AT NO ADDITIONAL COSTS TO THE OWNER.

BB. GUARANTEE WORK FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS WORKMANSHIP.

CC. SYMBOLS SHOWN ARE ILLUSTRATIVE IN NATURE AND ARE PROVIDED ONLY FOR USE AS REFERENCE.

DD. CONTRACTOR TO VERIFY ALL REQUIRED FLOOR/CEILING AND WALL PENETRATIONS. COORDINATE ALL PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.

EE. CONTRACTOR TO FIELD COORDINATE ALL DUCT SIZES AND LOCATIONS. CONTRACTOR TO INSTALL EQUIVALENT SIZES AND ALTERNATE ROUTINGS WHERE NECESSARY FOR PROPER FIT AND FUNCTION.

OUTSIDE AIR CALCULATION

AREA SERVED	ZONE	SQUARE FEET	CFM/FT2	REQ'D O/A	ACTUAL O/A
SHOWROOM/VEH. MGR	1 & 4	6047	0.30	1818	1845
SERVICE	2	1695	0.14	240	240
PARTS/BREAK	3	1880	0.14	265	265
GEN. MGR/CONFERENCE	5	1026	0.14	140	140
OFFICE	6	2288	0.14	320	320

AIR DEVICE SCHEDULE

MARK	NECK SIZE	FRAME SIZE	FRAME TYPE	VOLUME DAMPER	SUPPLY	RETURN	EXHAUST	REMARKS	FLEX.
A	6"ø	24 X 24	LAY-IN	●	●			METALAIRE SERIES 5000-S4	·
B	8"ø	24 X 24	LAY-IN	●	●			METALAIRE SERIES 5000-S4	
C	10"ø	24 X 24	LAY-IN	●	●			METALAIRE SERIES 5000-S4	
D	12"ø	24 X 24	LAY-IN	●	●			METALAIRE MODEL 5000-S4	
E	10"ø	3-3/4"	SLOT	●	●			METALAIRE MODEL 6000TB WITH BPI BOOT	
F	22 X 22	24 X 24	LAY-IN			●		METALAIRE MODEL CC5TBFB	
G	14 X 14	24 X 24	LAY-IN			●		METALAIRE MODEL CC5TB	
H	22 X 22	24 X 24	LAY-IN			●		METALAIRE MODEL CC5TB	
I	8 X 6	10 X 8	SIDEWALL	●	●			METALAIRE MODEL V4004	
J	8 X 16	10 X 18	SIDEWALL			●		METALAIRE MODEL CC5	
K	18 X 16	20 X 18	SIDEWALL			●		METALAIRE MODEL CC5	
L	10 X 6	12 X 8	SIDEWALL	●	●			METALAIRE MODEL CC5	

NOTES:

1. COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. ALL SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE.
3. ALL FLEX SHALL BE SIZED AS SCHEDULED UNLESS NOTED OTHERWISE.
4. ALL DIFFUSERS SHALL BE OFF-WHITE UNLESS NOTED OTHERWISE.
5. VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE OF AIR DEVICES.
6. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.

HVAC LEGEND

SYMBOL	ABB.	DESCRIPTION
T	TSTAT	THERMOSTAT/CONTROL DEVICE 48" AFF
TS		REMOTE TEMPERATURE SENSOR
H		HUMIDISTAT 48" AFF
F		FIRESTAT
SD		SMOKE DETECTOR
$SD		SMOKE DETECTOR TEST SWITCH
VS		VENTILATION SWITCH 48" AFF
— C —		CONDENSATE DRAIN
— AD —		AUXILIARY DRAIN
— RS —		REFRIGERANT SUCTION
— RL —		REFRIGERANT LIQUID
— HG —		REFRIGERANT HOT GAS
— CHS —		CHILLED WATER SUPPLY
— CHR —		CHILLED WATER RETURN
— CWS —		CONDENSER WATER SUPPLY
— CWR —		CONDENSER WATER RETURN
— HWS —		HOT WATER SUPPLY
— HWR —		HOT WATER RETURN
— S5 —		STEAM 5 PSIG
— SC —		STEAM CONDENSATE
— PSC —		PUMPED STEAM CONDENSATE
— R —		RELIEF
— D —		DRAIN
— V —		VENT
— A 100 —		COMPRESSED AIR 100 PSIG
		BLOCK VALVE
		BALANCING VALVE
		CHECK VALVE
		RELIEF VALVE
		RELIEF VALVE
		HOSE BIBB

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M & A job no.: 01-016

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09/20/02

DATE: 09/20/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. M2.1

AIR HANDLING UNIT SCHEDULE (GAS FURNACE)

MARK	MANUFACTURER AND MODEL NUMBER	SERVICE	TYPE	OUTSIDE AIR (CFM)	SUPPLY FAN PERFORMANCE						FURNACE			COOLING COIL							REMARKS
					CFM	ESP	MAX FAN RPM	BHP	HP	ELEC. SVC.	FUEL TYPE	INPUT / CFH	OUTPUT/ BTUH	EADB/EAWB	LADB/LAWB	TOTAL MBH	SENS. MBH	MCA	MOCP	WEIGHT	
AHU-1	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-2	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-3	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-4	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-5	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-6	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-7	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-8	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-9	YORK P1XDD20V11201	SHOWROOM	HORIZ./SPLIT	205	1750	0.75			1.00	115V/1ø	NAT. GAS	120	112,000	79.0 / 64.5	55.0 / 54.9	39,900	36,000	14.5	20.0	200	1,2,3,5,6,7
AHU-10	YORK PHUE30N13006	SERVICE (1ST FLR)	HORIZ./SPLIT	240	1800	1.00			1.50	208V/1ø	NAT. GAS	160	130,000	78.9 / 64.5	55.0 / 54.4	41,600	35,600	15.0	20.0	250	2,3,4,7
AHU-11	YORK PHUE30N13006	PARTS/BREAK (1ST FLR)	HORIZ./SPLIT	265	1400	1.00			1.50	208V/1ø	NAT. GAS	160	130,000	80.1 / 66.0	56.0 / 55.5	33,400	27,200	9.0	20.0	130	2,3,4,7
AHU-12	YORK P1XDB12V0751	G. MGR / CONF (2ND FLR)	HORIZ./SPLIT	140	1000	0.60			0.75	115V/1ø	NAT. GAS	80	75,000	78.6 / 64.6	55.0 / 54.4	25,000	21,000	9.0	20.0	130	2,3,4,5,7
AHU-13	YORK PHUE30N13006	OFF / RR (2ND FLR)	HORIZ./SPLIT	320	1860	1.00			1.50	208V/1ø	NAT. GAS	~~160~~ 1640 a	130,000 1,473,000	79.5 / 65.2	55.0 / 54.3	51,800	42,800	15.0	20.0	250	2,3,4,7

REMARKS:

1. PROVIDE WITHOUT FILTER.
2. PROVIDE HORIZONTAL CONFIGURATION.
3. PROVIDE WITH VIBRATION ISOLATORS.
4. PROVIDE FLAT FILTER
5. PROVIDE 2-SPEED BLOWER.
6. PROVIDE SMOKE DETECTORS IN SUPPLY DUCT. TIE TO FIRE ALARM SYSTEM.
7. PROVIDE LIQUID LINE SOLENOID VALVE AT AHU THAT OPENS WHEN COMPRESSOR STARTS.

CONDENSING UNIT SCHEDULE- AIR CONDITIONING

MARK	SERVICE	COOLING CAPACITY MBH	MINIMUM SEER	AMBIENT TEMP. °F	COMPRESSOR DATA			FAN DATA		MCA	MOCP	MANUFACTURER MODEL NUMBER	REMARKS
					(V/PH/Hz)	LRA	RLA	(V/PH/Hz)	FLA				
CU-1	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-2	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-3	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-4	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-5	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-6	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-7	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-8	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-9	SHOWROOM	46.6	10.8	105	208/1ø	135	25.7		0.7	32.8	50	YORK HTS048 / GFD 048	1
CU-10	SERVICE (1ST FLR)	57.5	12.0	105	208/1ø	169	28.8		1.3	37.4	60	YORK HRC060 / GFD 060	
CU-11	PARTS/BREAK (1ST FLR)	42.5	12.0	105	208/1ø	115	19.9		0.7	26.2	45	YORK HRC042 / GFD 048	
CU-12	G. MGR / CONF (2ND FLR)	29.4	11.0	105	208/1ø	65	11.7		0.5	15.3	25	YORK HTS030 / GFD 036	1
CU-13	OFF / RR (2ND FLR)	57.5	12.0	105	208/1ø	169	28.8		1.3	37.4	60	YORK HRC060 / GFD 061	

NOTES:

1. PROVIDE 2-SPEED COMPRESSOR.

FAN SCHEDULE

MARK	PERFORMANCE						ELECTRICAL				WEIGHT	MANUFACTURER AND MODEL NUMBER	REMARKS
	SERVICE	TYPE	LOCATION	CFM	ESP	RPM	BHP	MOTOR HP	RPM	SERVICE			
EF-1	SHOWROOM R/R	CENTRIFUGAL	INLINE	700	1.00	2,376	0.36	1/2	3450	115V/1ø	125	COOK #SQN-B80	1,3,5
EF-2	SERVICE R/R	CENTRIFUGAL	INLINE	500	1.00	2,040	0.24	1/2	3450	115V/1ø	125	COOK #SQN-B80	1,3,5
EF-3	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-4	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-5	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-6	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-7	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-8	SERVICE BAY	PROPELLER	WALL	6,000	0.25	732		1/2		115V/1ø		COOK #30XMW	3,4
EF-9	PARTS STORAGE	PROPELLER	WALL	10,000	0.25	454		3/4		115V/1ø		COOK #42XMW	3,4
F-1,F-2	SERVICE BAY	PROPELLER	COLUMN	6,300	0.00	1140	0.28	1/4	1140	115V/1ø	240	GREENHECK MCY-30-206-B4	2,6
SF-1	WASH BAYS	CENTRIFUGAL	CABINET	1,200	0.75	1430	0.32	1/2		115V/1ø	80	COOK #SDB-120	3,5
EF-10	2ND FLR. R/R	CENTRIFUGAL	INLINE	700	1.00	2376	0.36	1/2	3450	115V/1ø	125	COOK #SQN-B80	1,3,5

REMARKS:

1. FURNISH WITH BACKDRAFT DAMPERS.
2. DIRECT DRIVE
3. BELT DRIVE
4. PROVIDE WITH GRAVITY SHUTTER, MOUNTING FRAME FOR FLUSH MOUNT ON EXTERIOR AND GUARD.
5. PROVIDE RUBBER-IN-SHEAR VIBRATION ISOLATORS
6. FURNISH WITH STEEL COLUMN SWIVEL MOUNT.

GAS UNIT HEATER SCHEDULE

MARK	TYPE	INPUT (CFH)	OUTPUT (BTUH)	UNIT VOLTAGE	FAN DATA			MANUFACTURER / MODEL NO.	REMARKS
					CFM	HP	VOLTAGE		
UH-1	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-2	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-3	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-4	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-5	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-6	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-7	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-8	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-9	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-10	INFRARED	30	30,000	115V/1ø	N/A			REZNOR RIHN 30	2
UH-11	PROPELLER	50	~~40,000~~ 420	115V/1ø	380	1/50	115/1	REZNOR F50	1
UH-12	PROPELLER	50	40,000 580,000	115V/1ø	380	1/50	115/1	REZNOR F50	1

1. PROVIDE THERMOSTAT MOUNTS ON UNIT.
2. PROVIDE WALL SWITCH TO TURN UNIT ON-OFF.

GAS DUCT HEATER SCHEDULE

MARK	TYPE	SERVICE	CFM	DUCT SIZE	S.P.	FUEL TYPE	TEMP. RISE	INPUT (BTUH)	OUTPUT (BTUH)	FLUE SIZE	MANUFACTURER MODEL NO.	REMARKS
GDH-1	DUCT FURNACE	WASH BAYS	1200	14 x 18	0.3	NAT. GAS	60°F	100,000	80,000	4"	REZNOR EEDU100	

REMARKS:

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M & A job no.: 01-016

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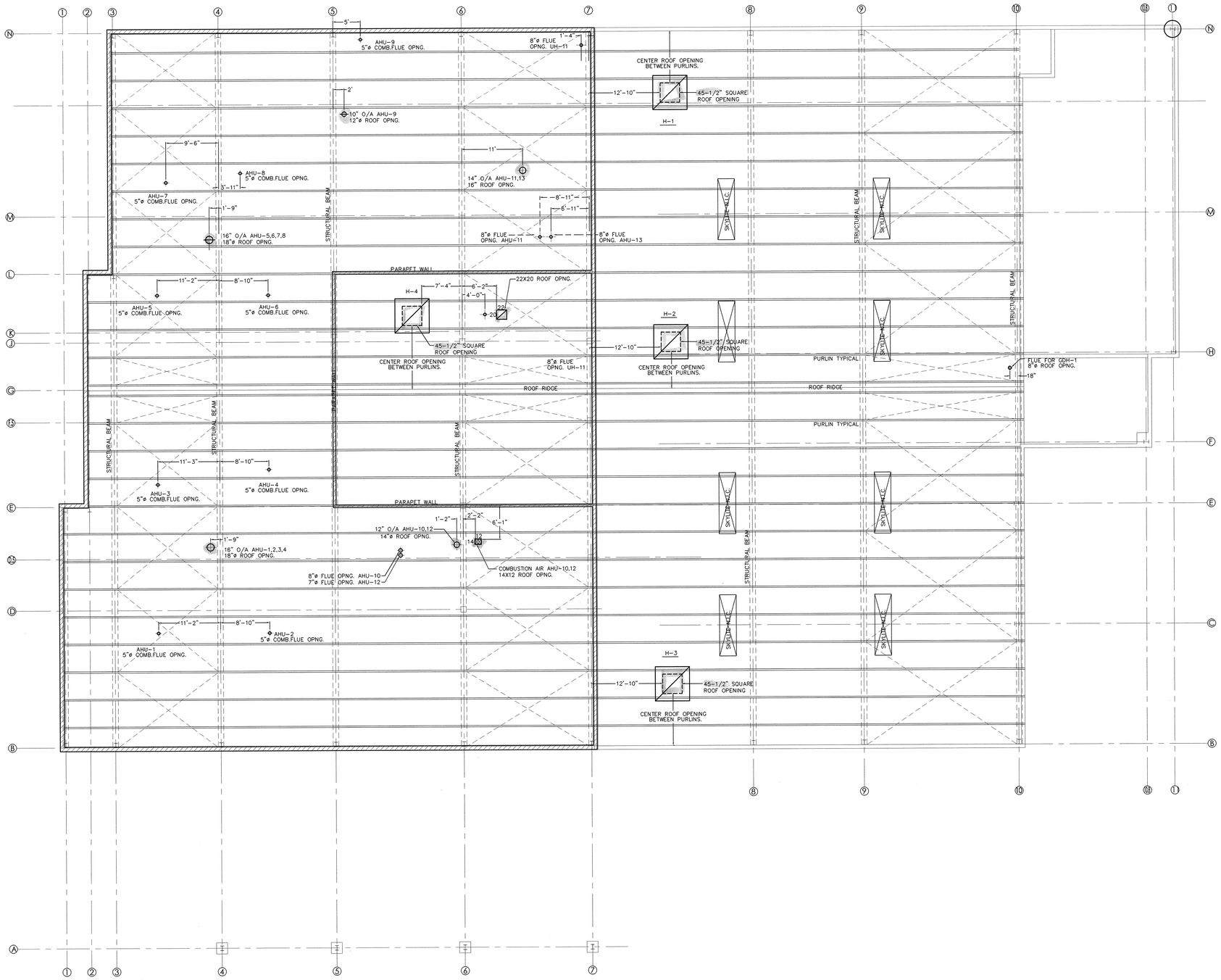
REVISION DATE:

PROJECT NO. 020008

SHEET NO. M2.2



NOTE: ALL FLUES TO BE A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES

DIMENSIONS ARE FROM ℄ OF STEEL. VERIFY DISTANCES WITH RESPECT TO ROOFING MATERIAL ADJUST ACCORDINGLY ON SITE.

ALL ROOF OPENINGS MUST FALL BETWEEN ROOF PURLINS

MAINTAIN AT LEAST 5 FEET DISTANCE BETWEEN PARAPET WALL AND ANY ROOF PENETRATIONS.

HVAC Roof Plan

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

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COMFORT SYSTEMS USA
A Comfort Systems USA Company

DATE: 28, July 2003

Preliminary Plan
Not For Construction

REVISION DATE:
SHOP DRAWINGS

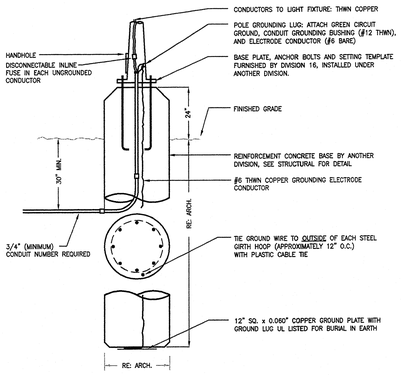
PROJECT NO.
M-Tech #2406

SHEET NO.
M3.0

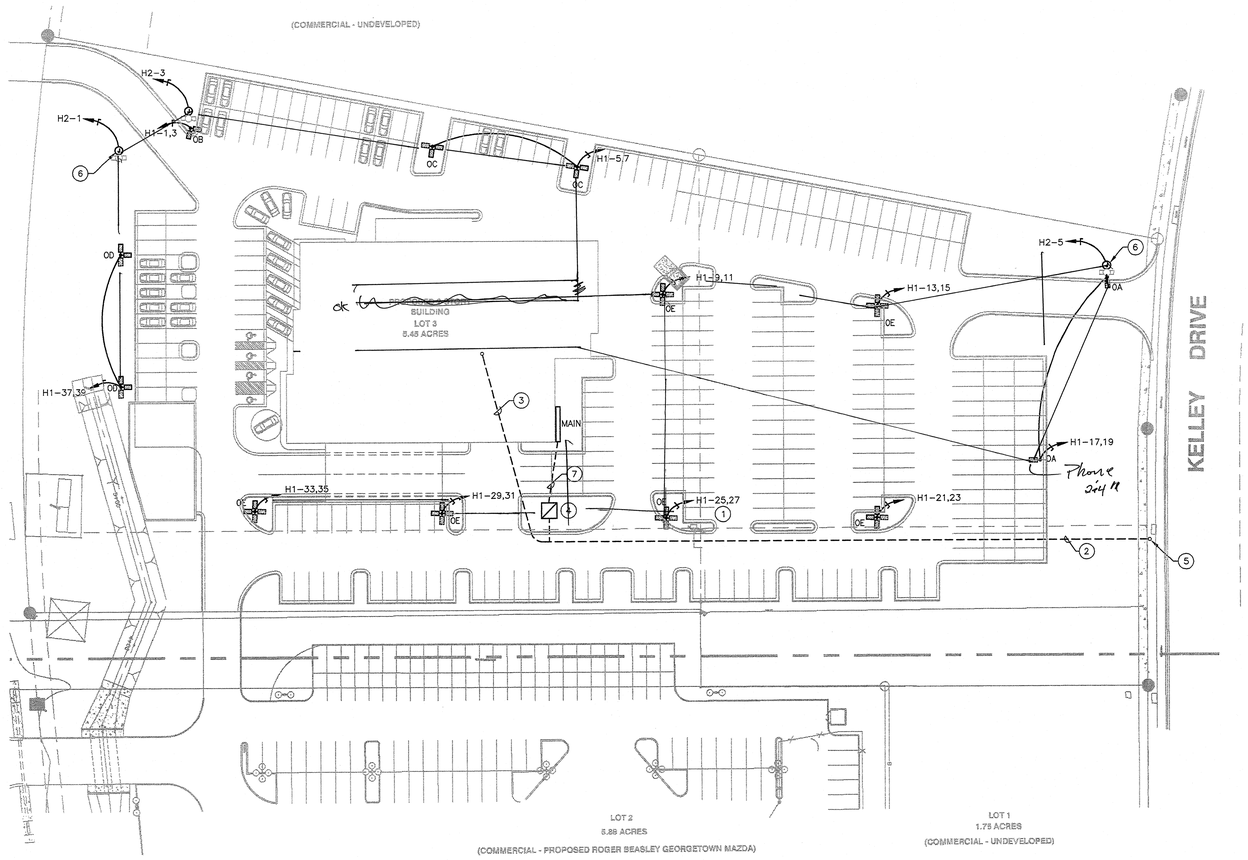
KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. EXISTING PULL BOX FOR LIFT STATION POWER. RELOCATE AS REQUIRED. COORDINATE SITE CONDITIONS WITH CHRIS SKIDMORE WITH McCORD ENGINEERING AT (979) 764-8356.
2. JOINT TRENCH FOR ELECTRIC PRIMARY AND TELECOMMUNICATIONS WIRING. PROVIDE (3) 2" CONDUITS FOR ELECTRIC AND (2) 4" EMPTY CONDUITS FOR TELECOMMUNICATIONS. COORDINATE WITH CHRIS SKIDMORE FOR ELECTRIC UTILITY REQUIREMENTS, VERIZON FOR TELECOMMUNICATIONS AND TIME WARNER FOR CABLE REQUIREMENTS.
3. (2) 4" CONDUITS TO SECOND FLOOR TELECOMMUNICATIONS ROOM. PROVIDE WITH LONG SWEEP ELBOWS.
4. PAD MOUNT TRANSFORMER BY COMMUNITY OWNED UTILITIES.
5. EXISTING COMMUNITY OWNED UTILITIES JUNCTION BOX.
6. MONUMENT SIGN. COORDINATE WITH OWNER FOR EXACT REQUIREMENTS.
7. ELECTRICAL SECONDARYS. REFER TO SWITCHBOARD "MSB" SCHEDULE FOR SIZING.



02 LIGHT POLE FOOTING - ELEC.
SCALE: NOT TO SCALE



01 SITE PLAN - ELECTRICAL
SCALE: 1" = 40'

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SHEET NO. E1.0

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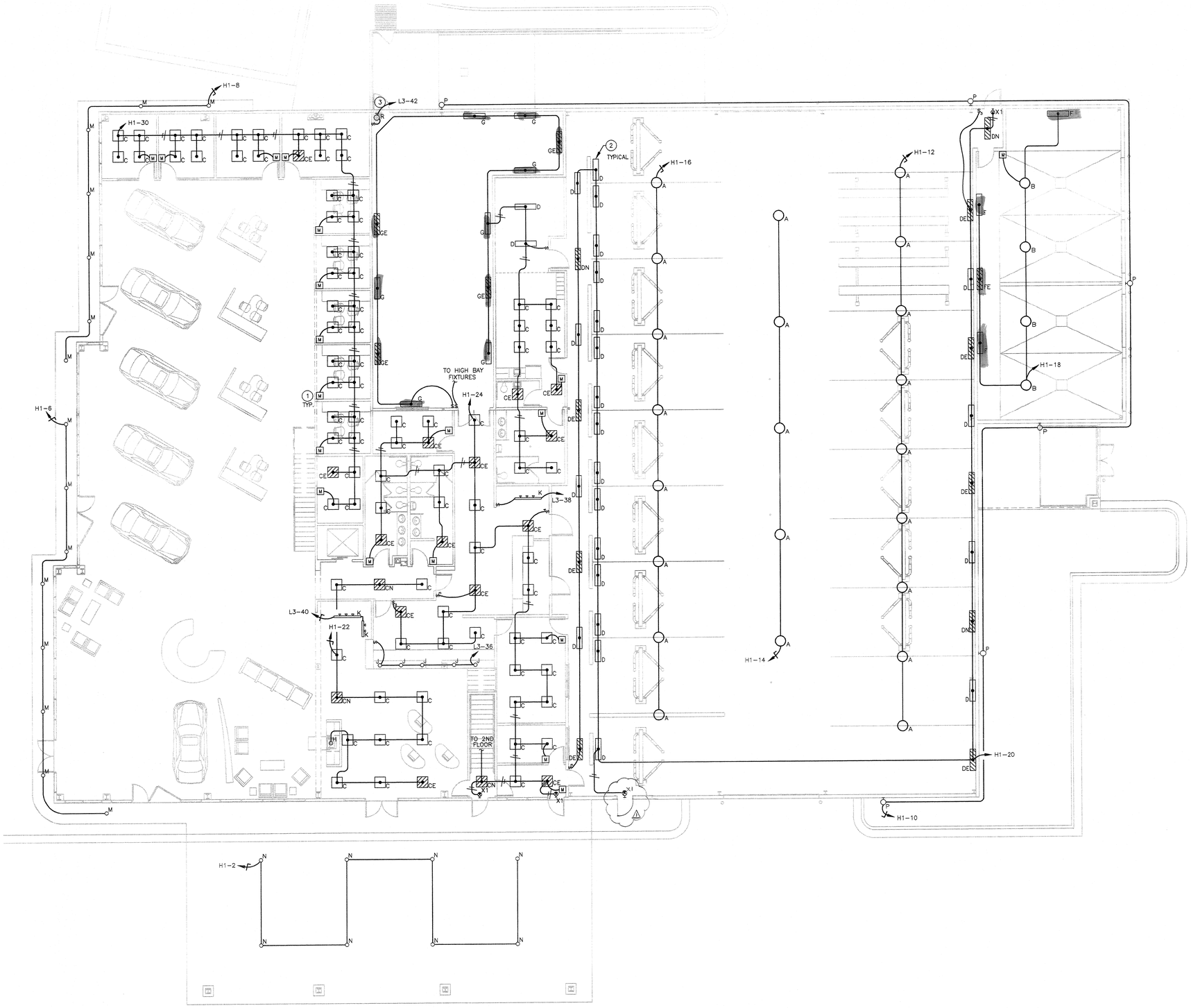
M & A Job no.: 01-016

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. PROVIDE WATTSTOPPER #WI-300-WH MOTION SENSOR. TYPICAL FOR ALL MOTION SENSORS.
2. STRIP FLUORESCENT FIXTURES TO BE HUNG ABOVE WORK BENCH. COORDINATE INSTALLATION WITH EQUIPMENT LOCATIONS.
3. VERIFY EXACT MOUNTING LOCATION FOR DOCK LIGHT WITH OWNER PRIOR TO ROUGH-IN.



01 FIRST FLOOR - LIGHTING PLAN

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

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M & A job no.: 01-016

AN AUTOMOTIVE DEALERSHIP

ROGER BEASLEY VOLVO

INTERSTATE HIGHWAY 35 SOUTH
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ELSASSER ARCHITECTURAL INC.
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CONSULTANT SEAL:

STATE OF TEXAS
L. L. MYERS, JR.
No. 33310
REGISTERED ARCHITECT

09-30-02

REVISIONS

NO.	DESCRIPTION
1	REVISE HALL DOOR

DATE: 09/30/02

REVISION DATE:
1 12-09-02

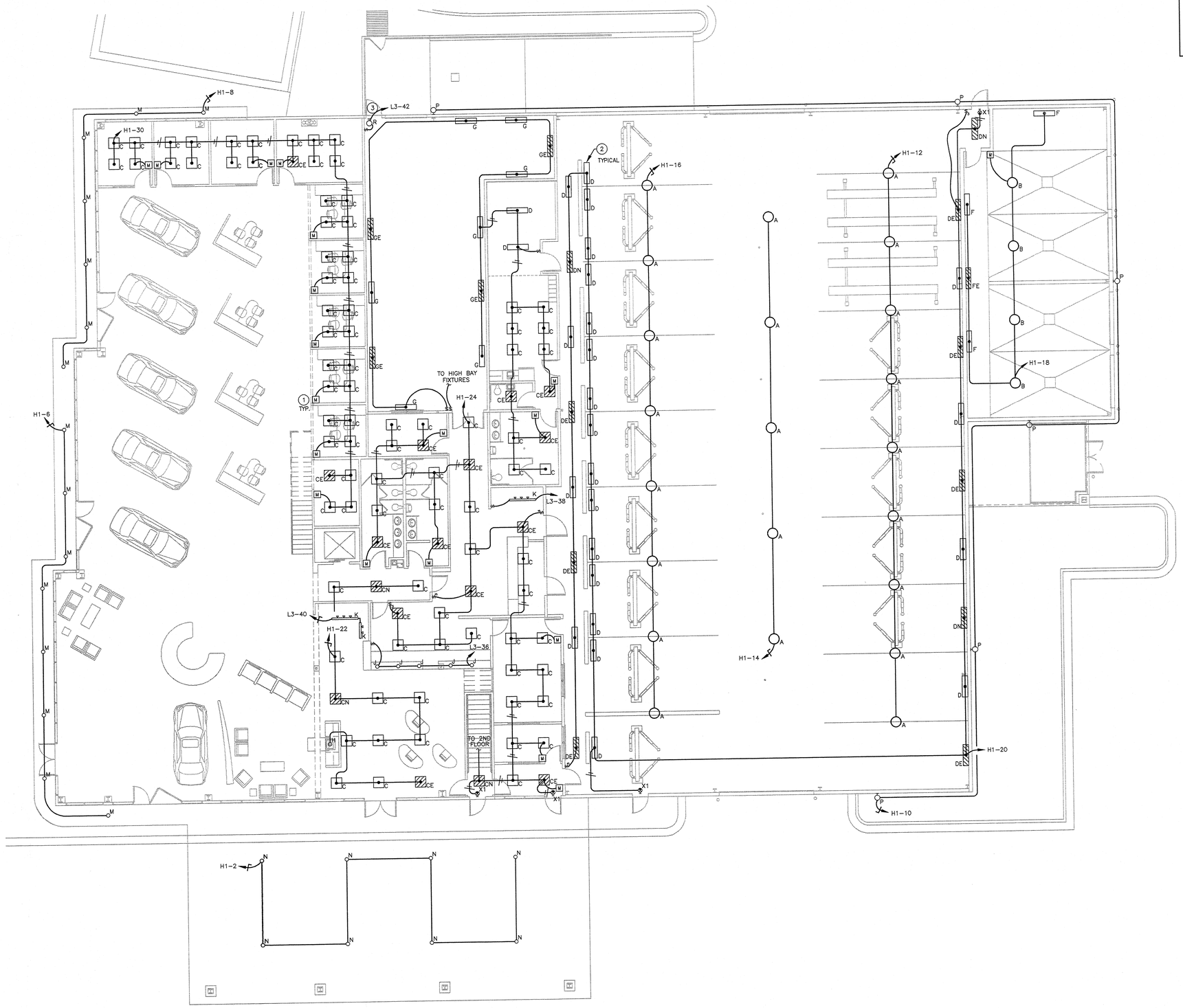
PROJECT NO.
020008

SHEET NO.
E2.0

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. PROVIDE WATTSTOPPER #WI-300-WH MOTION SENSOR. TYPICAL FOR ALL MOTION SENSORS.
2. STRIP FLUORESCENT FIXTURES TO BE HUNG ABOVE WORK BENCH. COORDINATE INSTALLATION WITH EQUIPMENT LOCATIONS.
3. VERIFY EXACT MOUNTING LOCATION FOR DOCK LIGHT WITH OWNER PRIOR TO ROUGH-IN.



01 FIRST FLOOR - LIGHTING PLAN

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

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT SEAL:

STATE OF TEXAS
L. L. MYERS, JR.
03310
REGISTERED
PROFESSIONAL ENGINEER

04-30-02

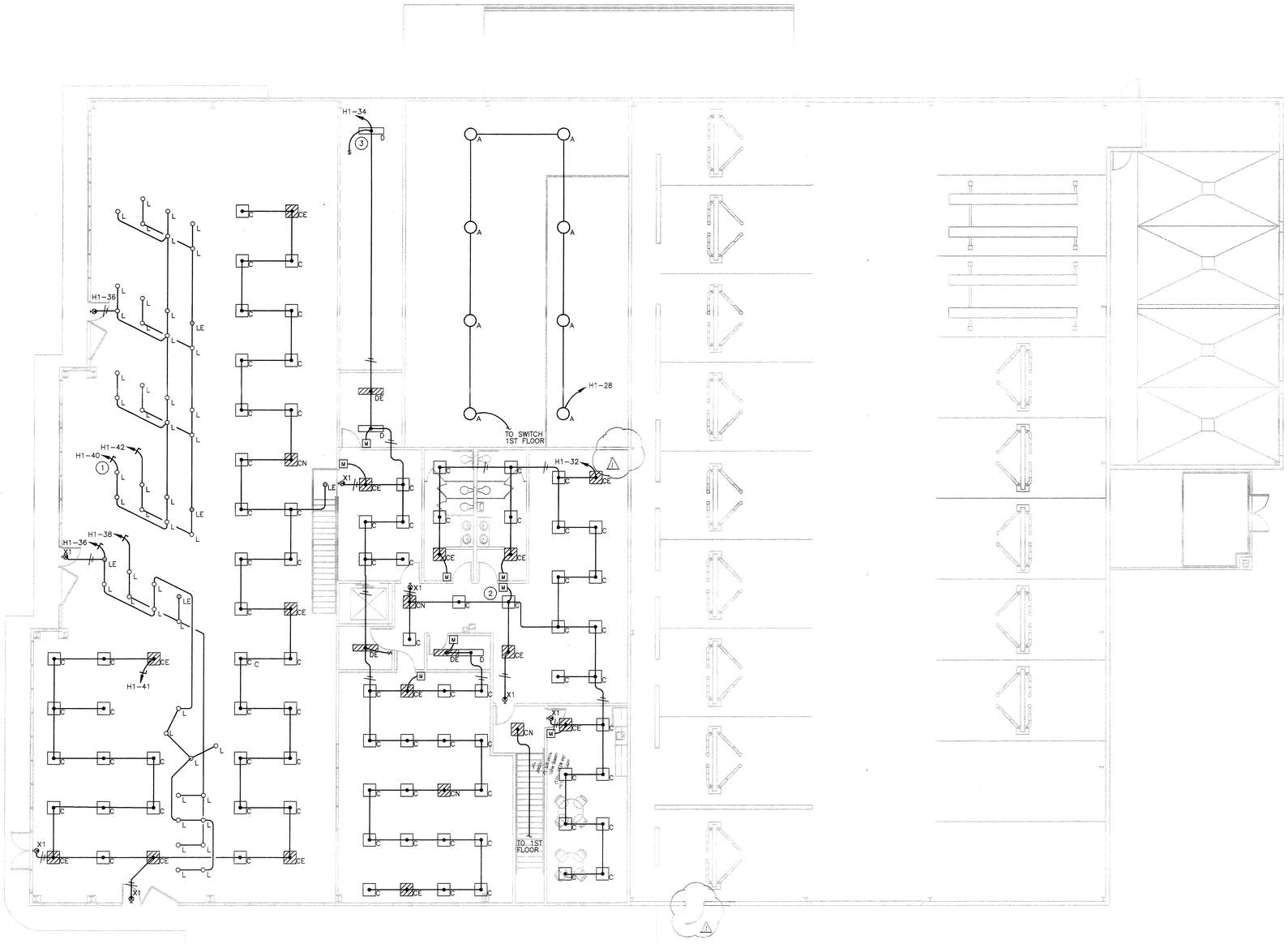
DATE: 04/30/02

SEE REVISED

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. PROVIDE MANUAL ON/OFF SWITCH ADJACENT TO LIGHTING TIMECLOCK TO MANUALLY OVERRIDE CONTROLS FOR SHOWROOM DOWNLIGHTS.
2. COORDINATE LOCATION OF MOTION SENSOR WITH OWNER AND FURNITURE DESIGNER PRIOR TO INSTALLATION.
3. MOUNT LIGHT FIXTURE ABOVE AHU-7 MECHANICAL SPACE. MOUNT SWITCH ADJACENT TO ACCESS PANEL.



01 SECOND FLOOR - LIGHTING PLAN

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

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CONSULTANT SEAL:

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33310
REGISTERED
PROFESSIONAL ENGINEER

09-20-02

REVISIONS:

NO.	DESCRIPTION
1	REV. PLANS TO DRWG.
1	REDRAWN, LOWR.

DATE: 09/20/02

REVISION DATE:

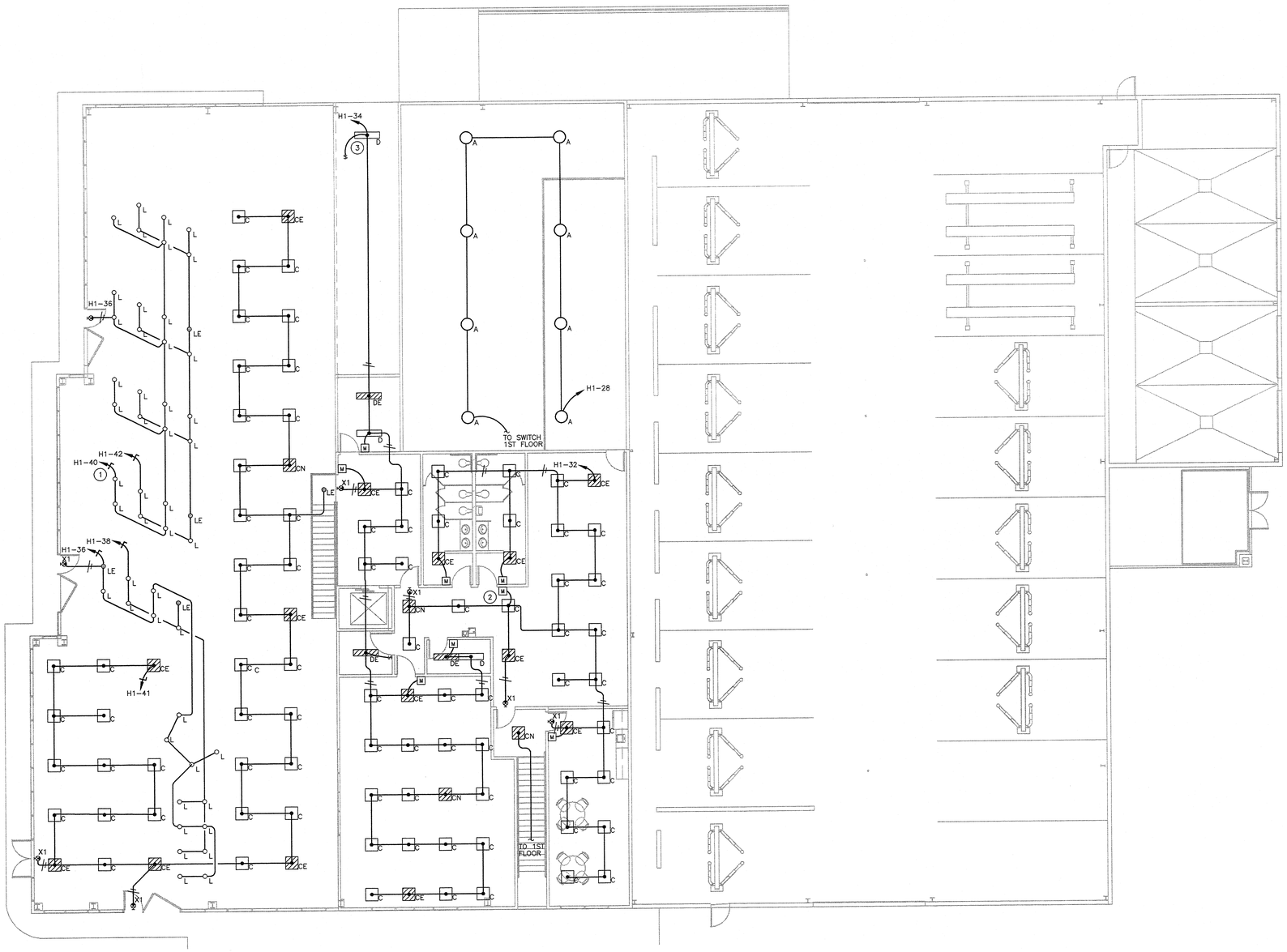
PROJECT NO. 020008

SHEET NO. E2.1

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. PROVIDE MANUAL ON/OFF SWITCH ADJACENT TO LIGHTING TIMECLOCK TO MANUALLY OVERRIDE CONTROLS FOR SHOWROOM DOWNLIGHTS.
2. COORDINATE LOCATION OF MOTION SENSOR WITH OWNER AND FURNITURE DESIGNER PRIOR TO INSTALLATION.
3. MOUNT LIGHT FIXTURE ABOVE AHU-7 MECHANICAL SPACE. MOUNT SWITCH ADJACENT TO ACCESS PANEL.



01 SECOND FLOOR - LIGHTING PLAN

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

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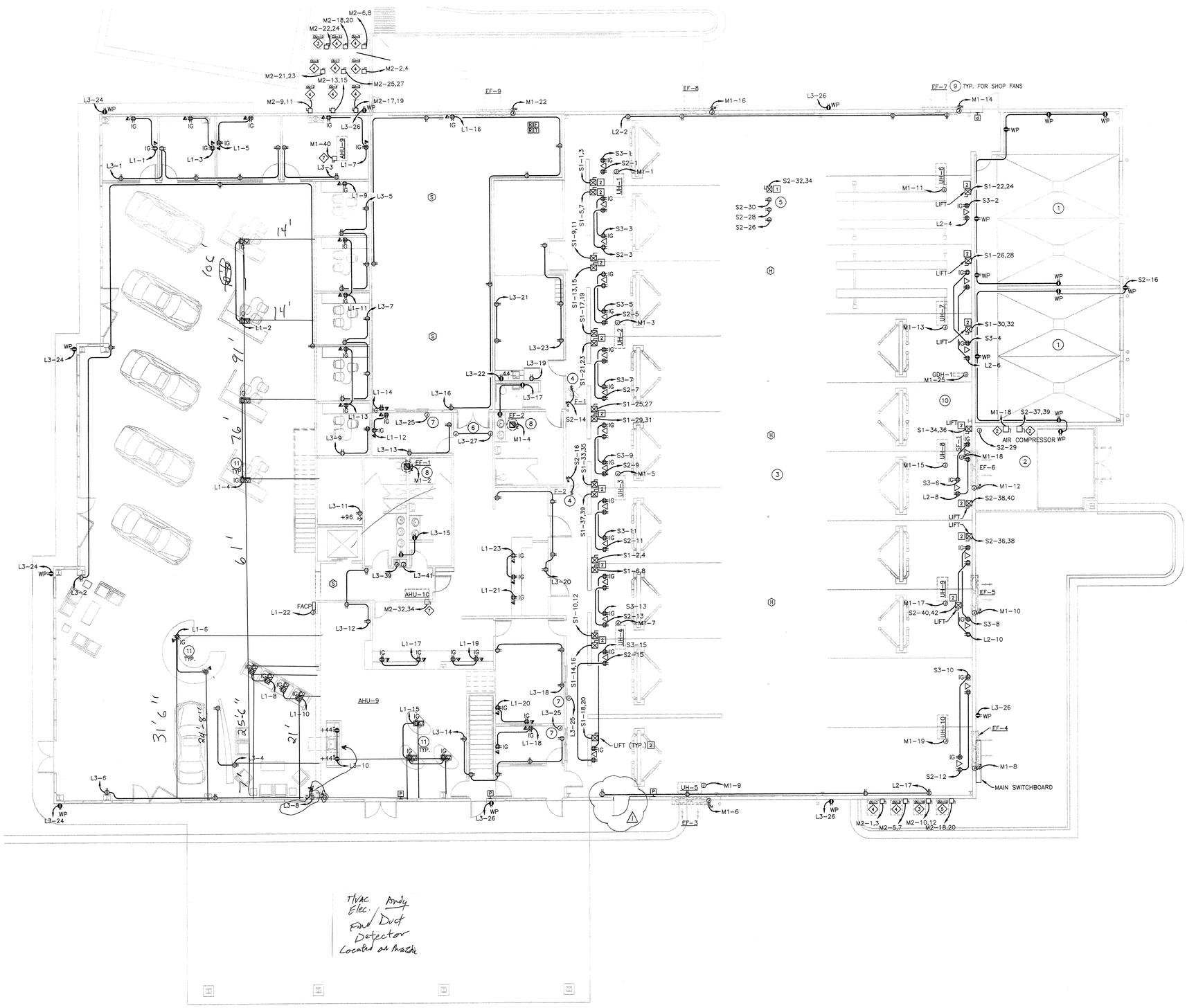
PROFESSIONAL ENGINEER

09-18-02

SEE REVISION



TIVAC Elec. Andy
Find Duct Detector
Located on Master

01 FIRST FLOOR - POWER PLAN

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

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. OWNER PROVIDED WASH BAY EQUIPMENT. VERIFY EXACT ELECTRICAL REQUIREMENTS PRIOR TO ANY WORK.
2. OWNER PROVIDED AIR COMPRESSOR AND AIR DRYER. VERIFY EXACT REQUIREMENTS PRIOR TO ANY WORK.
3. ALL SERVICE BAY SERVICE EQUIPMENT TO BE OWNER PROVIDED. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO ANY WORK. ALL RECEPTACLES AND TELECOMMUNICATIONS DEVICES TO BE MOUNTED AT 42" AFF. PROVIDE CONDUIT WITH PULLSTRING FROM EACH TELECOMMUNICATIONS DEVICE TO TELEPHONE EQUIPMENT ROOM ON SECOND FLOOR.
4. COORDINATE WITH OWNER FOR LOCATION OF "ON/OFF" SWITCH TO FAN.
5. PROVIDE CONNECTION FOR TIRE MAINTENANCE EQUIPMENT TO BE PROVIDED BY OWNER. EQUIPMENT TO INCLUDE BUT NOT LIMITED TO TIRE CHANGER, WHEEL BALANCER, ALIGNMENT MACHINE, AND LASER ALIGNMENT MACHINE. COORDINATE WITH OWNER FOR EXACT EQUIPMENT REQUIREMENTS AND LOCATION. SHOWN IN THIS LOCATION FOR CLARITY ONLY.
6. PROVIDE CONNECTION TO AUTOMATIC DOOR CLOSERS. COORDINATE WITH GENERAL CONTRACTOR AND FIRE ALARM CONTRACTOR FOR EXACT REQUIREMENTS.
7. PROVIDE CONNECTION TO AUTOMATIC ROLL DOWN FIRE SHUTTERS. COORDINATE WITH GENERAL CONTRACTOR AND FIRE ALARM CONTRACTOR FOR EXACT REQUIREMENTS.
8. CIRCUIT EXHAUST FANS EF-1 AND EF-2 THROUGH LIGHTING TIMECLOCK AND PROGRAM TO RUN DURING BUILDING OPERATIONAL HOURS.
9. PROVIDE ON/OFF SWITCH FOR ALL EXHAUST FANS IN SHOP.
10. PROVIDE ON/OFF SWITCH FOR SUPPLY FAN.
11. PROVIDE 3/4" CONDUIT WITH PULLSTRING TO EACH FLOOR MOUNTED DATA/COMMUNICATIONS JUNCTION BOX. (TYPICAL)

FIRE ALARM NOTES

FIRE ALARM EQUIPMENT SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR TO PROVIDE COMPLETE SYSTEM DESIGNED BY A STATE LICENSED DESIGN PROFESSIONAL.

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT SEAL:

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REGISTERED PROFESSIONAL ENGINEER
09-20-02

REVISIONS		
NO.	DESCRIPTION	
1	RELOC MELD DOOR	

DATE: 09/20/02

REVISION DATE:
1 12-04-02

PROJECT NO.
020008

SHEET NO.
E3.0

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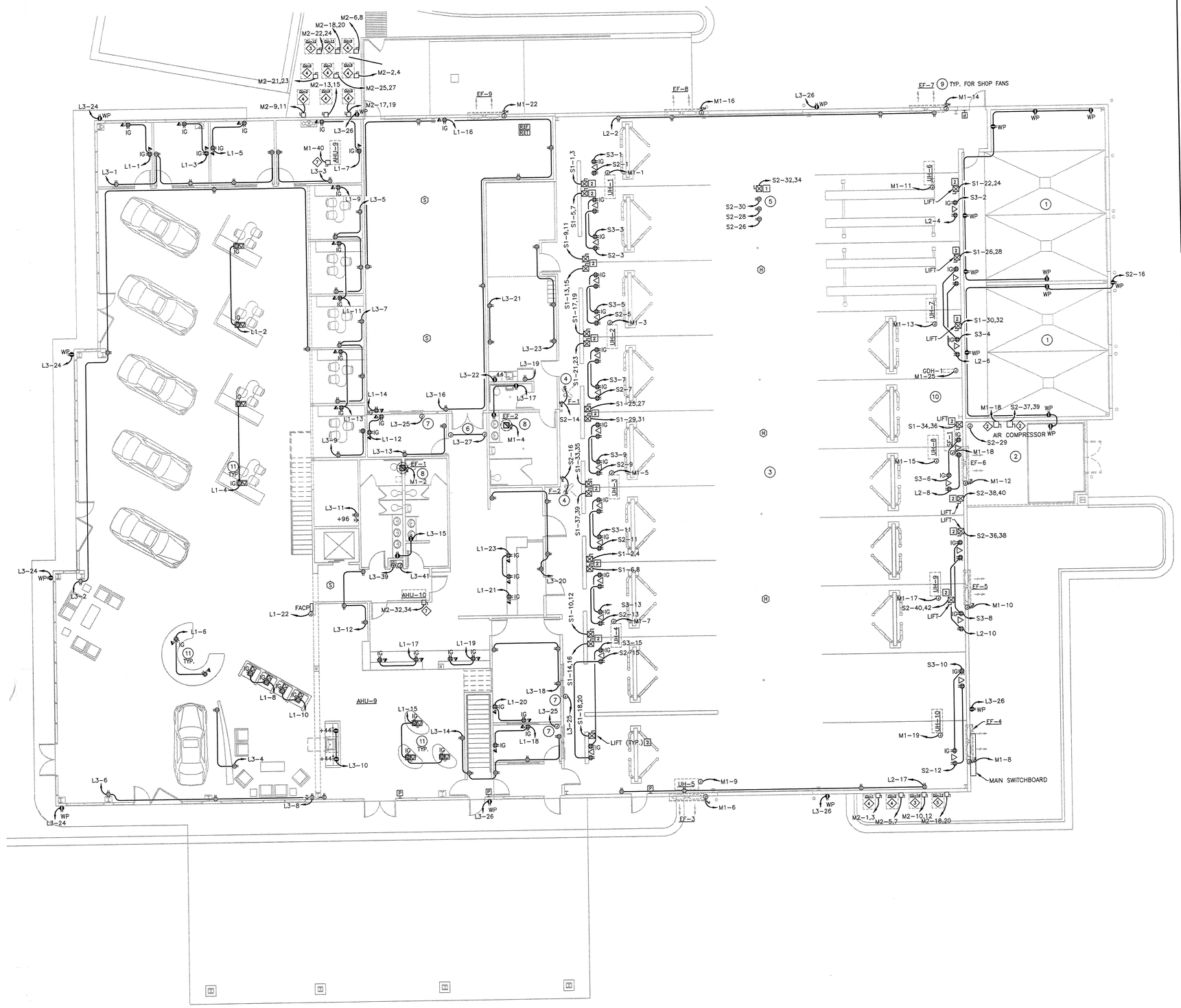
M & A Job no.: 01-016



01 FIRST FLOOR - POWER PLAN

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

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. OWNER PROVIDED WASH BAY EQUIPMENT. VERIFY EXACT ELECTRICAL REQUIREMENTS PRIOR TO ANY WORK.
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4. COORDINATE WITH OWNER FOR LOCATION OF "ON/OFF" SWITCH TO FAN.
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11. PROVIDE 3/4" CONDUIT WITH PULLSTRING TO EACH FLOOR MOUNTED DATA/COMMUNICATIONS JUNCTION BOX. (TYPICAL)

FIRE ALARM NOTES

FIRE ALARM EQUIPMENT SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR TO PROVIDE COMPLETE SYSTEM DESIGNED BY A STATE LICENSED DESIGN PROFESSIONAL.

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT SEAL:

STATE OF TEXAS
L. MYERS, JR.
33310
REGISTERED PROFESSIONAL ENGINEER

04-25-02

SEE REVISION

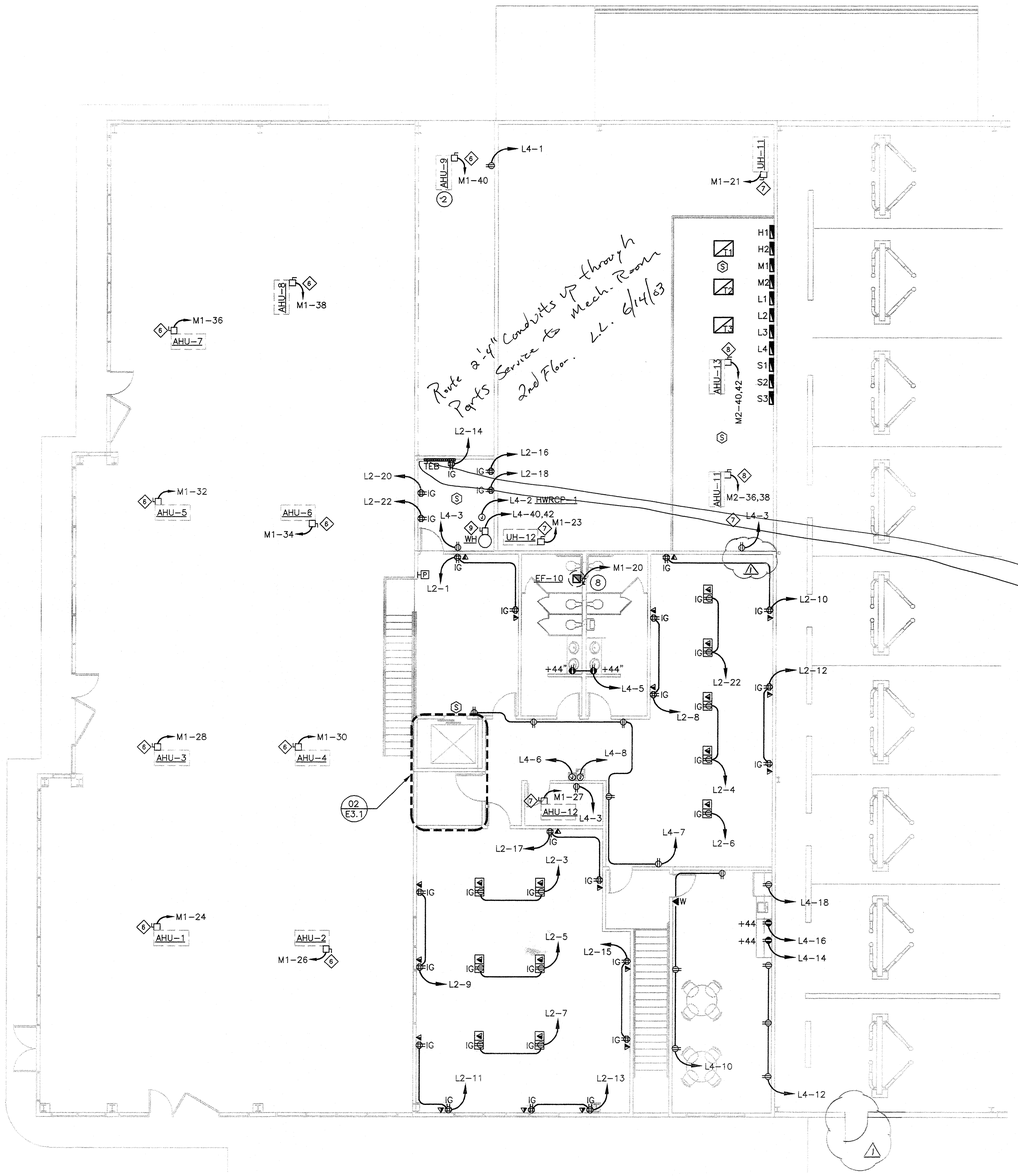
KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

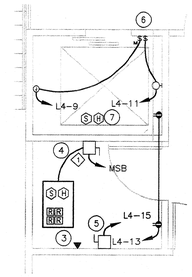
1. WALL MOUNTED PHONE. VERIFY EXACT LOCATION WITH OWNER.
2. AHU-9 MOUNTED ABOVE CEILING. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. MOUNT RECEPTACLE AND DISCONNECT IN PLAIN SIGHT FROM ACCESS PANEL.
3. FOR CONNECTION TO ELEVATOR COMMUNICATIONS SYSTEM.
4. COORDINATE EXACT DISCONNECT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
5. PROVIDE LOCKABLE, ENCLOSED CIRCUIT BREAKER, SQUARE D #QO2TR WITH ONE (1) QO120 CIRCUIT BREAKER FOR CONNECTION TO ELEVATOR CAB LIGHTS AND VENTILATION FAN.
6. THE MANUAL SWITCH FOR THE SUMP PUMP SHALL BE LOCATED ABOVE THE HOSE BIBB AND MARKED "SUMP PUMP". VERIFY EXACT LOCATION WITH ELEVATOR MANUFACTURER AND PLUMBING CONTRACTOR PRIOR TO ANY WORK.
7. MOUNT SMOKE AND HEAT DETECTORS AT TOP OF ELEVATOR SHAFT.
8. CIRCUIT EF-10 THROUGH LIGHTING TIMECLOCK AND PROGRAM TO RUN DURING BUILDING OPERATIONAL HOURS.

FIRE ALARM NOTES

FIRE ALARM EQUIPMENT SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR TO PROVIDE COMPLETE SYSTEM DESIGNED BY A STATE LICENSED DESIGN PROFESSIONAL.



01 SECOND FLOOR - POWER PLAN
SCALE: 1/8" = 1'-0"



02 ENLARGED PLAN ELEVATOR/EQ. ROOMS
SCALE: 1/4" = 1'-0"

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT SEAL:

STATE OF TEXAS
L. L. MYERS, JR.
33310
REGISTERED PROFESSIONAL ENGINEER
09-20-02

REVISIONS		
NO.	DESCRIPTION	
1	RELOCATED DOOR.	
	REMOVED DOOR.	

DATE: 09/20/02

REVISION DATE:
1 12-04-02

PROJECT NO.
020008

SHEET NO.
E3.1

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M & A job no.: 01-016

KEYED NOTES

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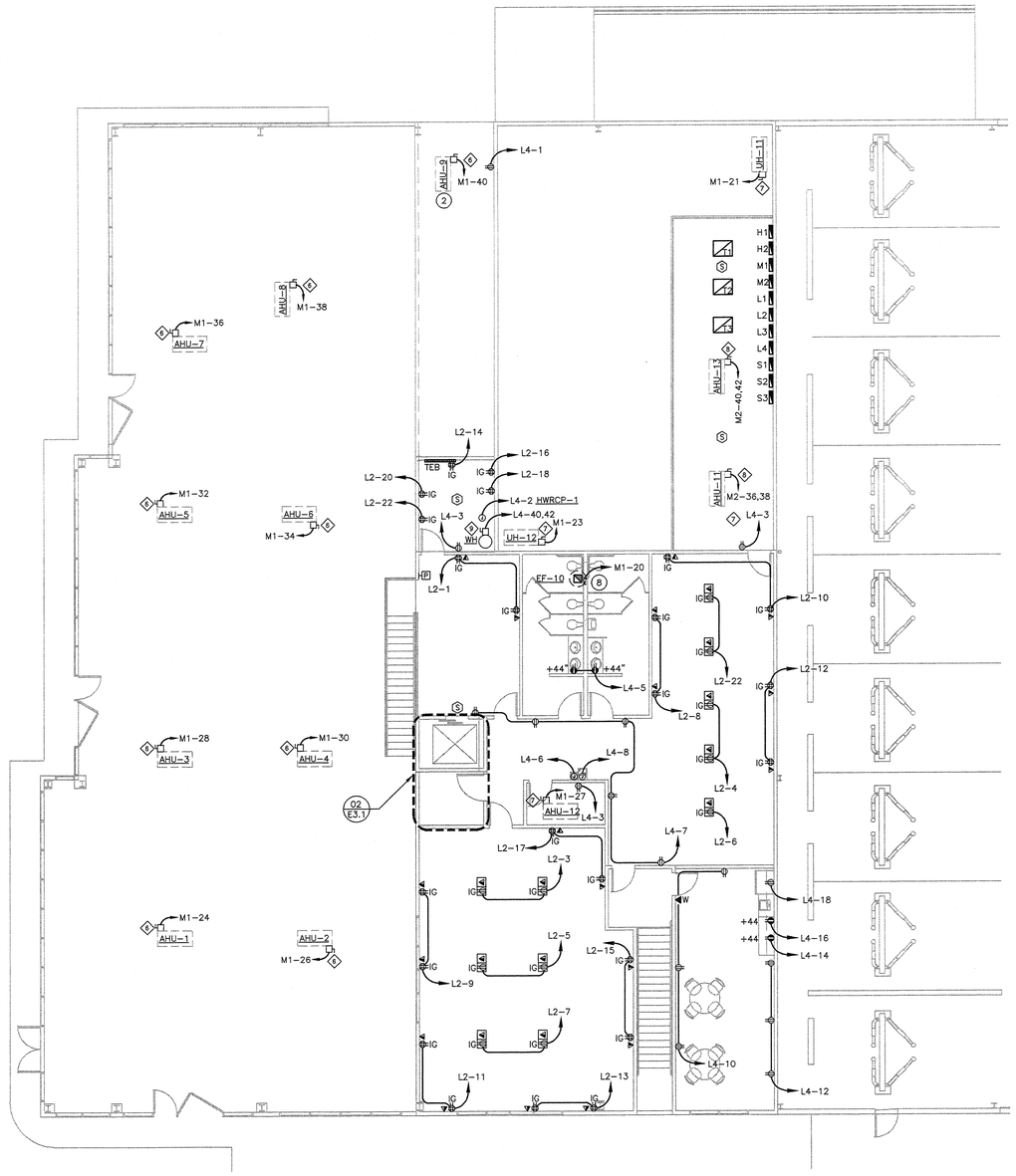
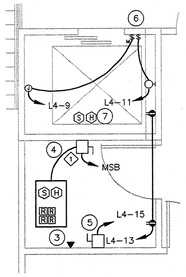
7. MOUNT SMOKE AND HEAT DETECTORS AT TOP OF ELEVATOR SHAFT.
8. CIRCUIT EF-10 THROUGH LIGHTING TIMECLOCK AND PROGRAM TO RUN DURING BUILDING OPERATIONAL HOURS.

FIRE ALARM NOTES

FIRE ALARM EQUIPMENT SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR TO PROVIDE COMPLETE SYSTEM DESIGNED BY A STATE LICENSED DESIGN PROFESSIONAL.



01 SECOND FLOOR - POWER PLAN
SCALE: 1/8" = 1'-0"



02 ENLARGED PLAN
ELEVATOR/EQ. ROOMS
SCALE: 1/4" = 1'-0"

AN AUTOMOTIVE DEALERSHIP

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CONSULTANT SEAL:

STATE OF TEXAS
L. L. MYERS, JR.
33310
REGISTERED PROFESSIONAL ENGINEER

04-30-02

SEE REVISION

GENERAL NOTES

A. ALL ELECTRICAL WORK SHALL COMPLY WITH N.E.C. AND ALL LOCAL CODES.

B. ALL GROUNDING SHALL BE PER N.E.C. AND LOCAL CODES.

C. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO AVOID CONFLICT AT THE SITE.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT PROVIDED AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO MAKING CONNECTION.

E. HOMERUNS SHALL BE COORDINATED WITH PANELBOARD SCHEDULES. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS.

F. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY N.E.C.

G. MINIMUM WIRE/CONDUIT SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT.

H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE JOB.

I. CONFIRM THE EXACT LOCATION AND MOUNTING OF LIGHTING FIXTURES WITH ARCHITECT BEFORE ROUGH-IN.

J. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN FIELD PRIOR TO SUBMITTING BID.

K. LABEL ALL CIRCUITS PROPERLY ON PANELBOARD INDEX.

L. THE CONTRACTOR IS TO LAY OUT SERVICE ENTRANCE AND PANELS TO SCALE WITH ACTUAL GEAR TO BE INSTALLED TO ENSURE PROPER FIT AND CLEARANCES BEFORE INSTALLATION. NOTIFY ARCHITECT/ENGINEERS OF ANY DIMENSIONAL PROBLEMS.

M. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED AT A HEIGHT SO AS NOT TO BE VISIBLE AFTER INSTALLATION OF EWC. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING PROVIDED.

N. ALL CONDUIT AND OR CONDUCTORS RUN EXPOSED AT STRUCTURE ABOVE SHALL BE ROUTED AS HIGH AS POSSIBLE NEAR DECK.

O. ALL EXTERIOR LIGHTING SHALL BE HOODED OR SHIELDED FROM THE VIEW OF ADJACENT PROPERTY.

FIRE ALARM LEGEND

NOTE:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

SYMBOL	DESCRIPTION	REMARKS
FACP	FIRE ALARM CONTROL PANEL	
SCP	SMOKE CONTROL PANEL	
VESDA	VESDA DETECTOR(S)	
FAA	FIRE ALARM ANNUNCIATOR	
F	FIREMAN'S TELEPHONE JACK, 48" AFF UON	
S	SMOKE DETECTOR	
D	DUCT SMOKE DETECTOR	
F	FLOW SWITCH	
H	HEAT DETECTOR	
I	SUPRESSION SYSTEM MONITOR	
T	TAMPER SWITCH	
V	VESDA PORT	
S	CEILING SPEAKER	
R	SHUT DOWN RELAY	
	DOOR HOLDER	
	STROBE ONLY ALARM, 80" AFF UON	
P	FIRE ALARM MANUAL PULL STATION, 48" AFF UON	
	HORN/STROBE ALARM, 80" AFF UON	
M	MINI-HORN/STROBE ALARM, 80" AFF UON	
	HORN (HIGH AMBIENT NOISE AREAS), 144" AFF UON	
WP	WEATHERPROOF HORN ONLY ALARM, 144" AFF UON	

TELECOMMUNICATION/DATA LEGEND

NOTE:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET, 16"AFF, JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING, UON
	TELEPHONE OUTLET, FLOOR MOUNTED FLUSH WITH 3/4" CONDUIT ROUTED TO NEAREST WALL, UON
P	PUBLIC PAY TELEPHONE OUTLET, 48"AFF, JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING, UON
	COMBINATION TELEPHONE/DATA OUTLET, 16"AFF, JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING, UON
	COMBINATION TELEPHONE/DATA OUTLET, FLOOR MOUNTED FLUSH WITH 3/4" CONDUIT ROUTED TO NEAREST WALL, UON
	DATA OUTLET, 16" AFF UON, JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING, UON
	DATA OUTLET, FLOOR MOUNTED FLUSH WITH 3/4" CONDUIT ROUTED TO NEAREST WALL, UON
TEB	TELEPHONE EQUIPMENT BOARD, 3/4" PAINTED PLYWOOD, 4'X8', UON

DEVICE LEGEND

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS
B. ALL DEVICE PART NUMBERS ARE HUBBELL UNLESS OTHERWISE NOTED.

SYMBOL	DESCRIPTION	REMARKS
	SINGLE RECEPTACLE 20A/120V 16" AFF UON	5361-I
	DUPLEX RECEPTACLE 20A/120V 16"AFF UON	CR20-I
	DUPLEX RECEPTACLE 20A/120V 16" AFF UON WITH GROUND FAULT INTERRUPTER	GF5352-I
IG	DUPLEX RECEPTACLE 20A/120V 16" AFF UON WITH ISOLATED/INSULATED GROUND	IG5362-I
	FOURPLEX RECEPTACLE 20A/120V 16" AFF UON	(2) CR20-I
C	CLOCK RECEPTACLE 120V 96" AFF UON	5235-I
	SPECIAL PURPOSE RECEPTACLE 16" AFF SEE PLANS FOR DETAILS	
WP	WEATHER-PROOF DUPLEX RECEPTACLE 20A/120V 18"AFF UON W/GFI	GF5352-I / WP26
T	DUPLEX RECEPTACLE 20A/120V 16" AFF UON TAMPER RESISTANT	TR83I
	DUPLEX RECEPTACLE, FLOOR MOUNTED	CR20-I, SC3091
	FOURPLEX RECEPTACLE, FLOOR MOUNTED	(2) CR15-I, SC3091
$	SINGLE POLE SWITCH 20A, 48"AFF UON	CS120-I
$³	THREE-WAY SWITCH 20A, 48"AFF UON	CS320-I
$⁴	FOUR-WAY SWITCH 20A, 48"AFF UON	1224-I
$ᴷ	SINGLE POLE KEY OPERATED SWITCH 20A, 48"AFF UON	ARROW HART 1191/1187
$ᴰ	DIMMER SWITCH, 48"AFF UON, SEE PLANS FOR DETAILS	
$ᴾ	SWITCH WITH PILOT LIGHT, 48"AFF UON	1297-I
$ᵀ	TIMER SWITCH, 48"AFF UON	INTERMATIC FF60MH
$ᶠ	FAN SWITCH, 48"AFF UON	RF51
$ᴹ	MANUAL STARTER WITH THERMAL TRIP	
P	PHOTOCELL	
J	JUNCTION BOX	
J	JUNCTION BOX, FLOOR MOUNTED	
J	JUNCTION BOX, WALL MOUNTED	
	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
	POWER CABLE PULL-BOX	
	RELAY	WATT STOPPER #S-120/277/347-E
M	MOTION SENSOR, SEE PLANS FOR DETAILS	
M	EQUIPMENT MOTOR	
VFD	VARIABLE SPEED DRIVE	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO SCHEDULES	
	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	
	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
	CIRCUIT ROUTED THRU CONTACTOR OR RELAY	
—UE—	UNDERGROUND ELECTRIC	
—UT—	UNDERGROUND TELEPHONE	
—OE—	OVERHEAD ELECTRIC	
—OT—	OVERHEAD TELEPHONE	
	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCHLEG)	

BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

NOTE: USING THHN, EMT
C – CONDUIT G – GROUND IG – ISOLATED GROUND L – LINE OR PHASE N – NEUTRAL

MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM
1	1#12, 1#10, 1#12 G., 1#12IG., 1/2"C.	LNGIG	29	2#4, 3/4" C.	LN	57	2#1/0, 1 1/4" C.	LN
2	2#12, 1#12G., 1/2" C.	LNG	30	2#4, 1#8G., 1" C.	LNG	58	2#1/0, 1#6G., 1 1/4" C.	LNG
3	2#12, 1#12G., 1/2" C.	LLG	31	2#4, 1#8G., 1"C.	LLG	59	2#1/0, 1#6G., 1 1/4"C.	LLG
4	3#12, 1/2" C.	LLL	32	3#4, 1" C.	LLL	60	3#1/0, 1 1/4" C.	LLL
5	3#12, 1#12G., 1/2" C.	LLNG	33	3#4, 1#8G., 1 1/4" C.	LLNG	61	3#1/0, 1#6G., 1 1/2"C.	LLNG
6	3#12, 1#12G., 1/2" C.	LLLG	34	3#4, 1#8G., 1 1/4" C.	LLLG	62	3#1/0, 1#6G., 1 1/2"C.	LLLG
7	4#12, 1#12G., 1/2" C.	LLLNG	35	4#4, 1#8G., 1 1/4" C.	LLLNG	63	4#1/0, 1#6G., 2" C.	LLLNG
8	2#10, 3/4"C.	LN	36	2#3, 1" C.	LN	64	2#2/0, 1 1/2" C.	LN
9	2#10, 1#10G., 3/4" C.	LNG	37	2#3, 1#8G., 1"C.	LNG	65	2#2/0, 1#6G., 1 1/2"C.	LNG
10	2#10, 1#10G., 3/4" C.	LLG	38	2#3, 1#8G., 1" C.	LLG	66	2#2/0, 1#6G., 1 1/2"C.	LLG
11	3#10, 3/4" C.	LLL	39	3#3, 1" C.	LLL	67	3#2/0, 1 1/2" C.	LLL
12	3#10, 1#10G., 3/4" C.	LLNG	40	3#3, 1#8G., 1 1/4" C.	LLNG	68	3#2/0, 1#6G., 2" C.	LLNG
13	3#10, 1#10G., 3/4" C.	LLLG	41	3#3, 1#8G., 1 1/4" C.	LLLG	69	3#2/0, 1#6G., 2" C.	LLLG
14	4#10, 1#10G., 3/4" C.	LLLNG	42	4#3, 1#8G., 1 1/4" C.	LLLNG	70	4#2/0, 1#6G., 2" C.	LLLNG
15	2#8, 3/4" C.	LN	43	2#2, 1"C.	LN	71	2#3/0, 1 1/2" C.	LN
16	2#8, 1#10G., 3/4" C.	LNG	44	2#2, 1#8G., 1" C.	LNG	72	2#3/0, 1#6G., 2" C.	LNG
17	2#8, 1#10G., 3/4" C.	LLG	45	2#2, 1#8G., 1" C.	LLG	73	2#3/0, 1#6G., 2" C.	LLG
18	3#8, 3/4" C.	LLL	46	3#2, 1 1/4" C.	LLL	74	3#3/0, 2" C.	LLL
19	3#8, 1#10G., 3/4" C.	LLNG	47	3#2, 1#8G., 1 1/4" C.	LLNG	75	3#3/0, 1#6G., 2" C.	LLNG
20	3#8, 1#10G., 3/4" C.	LLLG	48	3#2, 1#8G., 1 1/4" C.	LLLG	76	3#3/0, 1#6G., 2" C.	LLLG
21	4#8, 1#10G., 1" C.	LLLNG	49	4#2, 1#8G., 1 1/4" C.	LLLNG	77	4#3/0, 1#6G., 2" C.	LLLNG
22	2#6, 3/4" C.	LN	50	2#1, 1 1/4" C.	LN	78	2#4/0, 2" C.	LN
23	2#6, 1#10G., 3/4" C.	LNG	51	2#1, 1#6G., 1 1/4" C.	LNG	79	2#4/0, 1#4G., 2" C.	LNG
24	2#6, 1#10G., 3/4" C.	LLG	52	2#1, 1#6G., 1 1/4" C.	LLG	80	2#4/0, 1#4G., 2" C.	LLG
25	3#6, 1"C.	LLL	53	3#1, 1 1/4" C.	LLL	81	3#4/0, 2" C.	LLL
26	3#6, 1#10G., 1" C.	LLNG	54	3#1, 1#6G., 1 1/2" C.	LLNG	82	3#4/0, 1#4G., 2" C.	LLNG
27	3#6, 1#10G., 1" C.	LLLG	55	3#1, 1#6G., 1 1/2" C.	LLLG	83	3#4/0, 1#4G., 2" C.	LLLG
28	4#6, 1#10G., 1" C.	LLLNG	56	4#1, 1#6G., 2" C.	LLLNG	84	4#4/0, 1#4G., 2 1/2" C.	LLLNG

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE.

B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.

D. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.

E. 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT (BODINE B90 OR EQUAL). LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED.

F. 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE UNSWITCHED TO OPERATE 24 HOURS DAILY.

MARK	MANUFACTURER'S CATALOG NUMBER	LAMPS NO./TYPE/WATTS	FIXTURE VOLTS/WATTS	DESCRIPTION AND COMMENTS
A	HUBBELL BL-400H8-BI-WH	1/MH 400W/U	277/450	14" INDUSTRIAL HIGH-BAY WITH SPUN ALUMINUM REFLECTOR WITH UP-LIGHT COMPONANT. WHITE FINISHED HOUSING.
B	HUBBELL BL-400H8-LM-WH	1/MH 400W/U	277/450	28" INDUSTRIAL LOW-BAY FIXTURE WITH SPUN ALUMINUM REFLECTOR AND ACRYLIC REFRACTOR. WHITE FINISH HOUSING AND REFLECTOR.
C	HE WILLIAMS U3G-D22-232U-33S-EB2-277V	2/F32T8USPX35	277/65	2'X2' PARABOLIC LAY-IN FIXTURE WITH 9-CELLS, AND ELECTRONIC BALLAST. SILVER FINISHED LOUVER. WHITE HOUSING FINISH.
D	HE WILLIAMS 80-4-232-WG11-EB2-277V	2/F32T8SPX35	277/65	4' INDUSTRIAL FLUORESCENT FIXTURE WITH ELECTRONIC BALLAST AND WIRE GUARD. WHITE FINISHED REFLECTOR, HOUSING AND WIRE GUARD.
F	HE WILLIAMS 92-4-232-A-EB2-277V	2/F32T8SPX35	277/65	4' VAPORTITE INDUSTRIAL FLUORESCENT FIXTURE WITH 2-LAMPS, ELECTRONIC BALLAST AND FIBERGLASS HOUSING. WET LOCATION LISTED.
G	HE WILLIAMS 29-4-232-A-CT-EB2-277V	2/F32T8SPX35	277/65	4' WALL MOUNT FLUORESCENT FIXTURE WITH SOLID TOP, .125" ACRYLIC LENS AND ELECTRONIC BALLAST. WHITE FINISH.
H	INFINITY PV60-132T-EB-SG	1/CF32TTTSPX35	277/35	6" COMPACT FLUORESCENT DOWNLIGHT WITH SATIN-GLOW REFLECTOR AND ELECTRONIC BALLAST.
J	INFINITY DR45-SG	1/50W MR16/NFL	120/50	4.5" LOW-VOLTAGE DOWNLIGHT WITH INTEGRAL TRANSFORMER AND SATIN-GLOW, SELF-FLANGED REFLECTOR.
K	PRESCOLITE (1)TS8-WH, (1)TS10-WH, (6)TV104-WH	6/250W PAR38	120/1500	8' SINGLE CIRCUIT TRACK WITH (6) FLAT BACK CYLINDER TYPE FIXTURE. WHITE FINISH. VERIFY EXACT MOUNTING CONFIGURATION PRIOR TO ORDER. PROVIDE PENDANTS AND ADDITIONAL LENGTH TRACK AND FIXTURES AS REQUIRED.
L	INFINITY MH10-175-SG	1/175W MH/ED28/MOG	277/210	10" RECESSED DOWNLIGHT WITH SATIN-GLOW FINISHED REFLECTOR, CLEAR TEMPERED GLASS SHIELD AND DUAL-TAP BALLAST.
M	INFINITY MH13-250-SG	1/250W MH/ED28/MOG	277/300	13" RESESSED DOWNLIGHT WITH SATIN-GLOW FINISHED REFLECTOR, CLEAR TEMPERED GLASS SHIELD AND DUAL-TAP BALLAST.
N	LUMARK MH13-400-SG	1/400W MH/ED28/MOG	277/450	13" RESESSED DOWNLIGHT WITH SATIN-GLOW FINISHED REFLECTOR, CLEAR TEMPERED GLASS SHIELD AND DUAL-TAP BALLAST.
P	KIM WD18D3/250MH277/WH-P	1/250W MH/ED28/MOG	277/300	WALL MOUNTED AREA LIGHT WITH CAST ALUMINUM HOUSING, TYPE III DISTRIBUTION AND FULL CUT-OFF DOWNLIGHT. WHITE FINISH.
R	PHOENIX DL-INC-LH/DL-42-ARM	1/300W PAR38	120/300	WALL MOUNT DOCK LIGHT WITH 42" ARM AND INCANDESCENT LIGHT HEAD.
X1	DUAL LITE LXURW	INCLUDED	120/10	UNIVERSAL MOUNT EXIT SIGN WITH RED LED LETTERS, NICKEL CADMIUM BACK-UP BATTERY, AND WHITE POLYCARBONATE HOUSING.
OA	SPAULDING CVM-PM-M400-II-480-DBZ 20-SQS-407-SGL-DBZ	1/MH 400W/U	480/450	SINGLE MOUNT 400W METAL HALIDE SHOEBOX FIXTURE WITH TYPE II DISTRIBUTION. ARM MOUNTED ON A 20' STRAIGHT SQUARE STEEL POLE. DARK BRONZE FINISH.
OB	SPAULDING (2)CVM-PM-M400-IV-480-DBZ 20-SQS-407-DBL-90-DBZ	2/MH 400W/U	480/900	DUAL MOUNT 400W METAL HALIDE SHOEBOX FIXTURES WITH TYPE IV DISTRIBUTION. ARM MOUNTED ON A 20' STRAIGHT SQUARE STEEL POLE. DARK BRONZE FINISH.
OC	SPAULDING (3)CVM-PM-M400-III-480-DBZ 20-SQS-407-TPL-DBZ	3/MH 400W/U	480/1350	TRIPLE MOUNT 400W METAL HALIDE SHOEBOX FIXTURES WITH TYPE III DISTRIBUTION. ARM MOUNTED ON A 20' STRAIGHT SQUARE STEEL POLE. DARK BRONZE FINISH.
OD	SPAULDING (3)CVM-PM-M400-IV-480-DBZ 20-SQS-407-TPL-DBZ	3/MH 400W/U	480/1350	TRIPLE MOUNT 400W METAL HALIDE SHOEBOX FIXTURES WITH TYPE IV DISTRIBUTION. ARM MOUNTED ON A 20' STRAIGHT SQUARE STEEL POLE. DARK BRONZE FINISH.
OE	SPAULDING (4)CVM-PM-M400-IV-480-DBZ 20-SQS-407-QUAD-DBZ	4/MH 400W/U	480/1800	QUAD MOUNT 400W METAL HALIDE SHOEBOX FIXTURES WITH TYPE IV DISTRIBUTION. ARM MOUNTED ON A 20' STRAIGHT SQUARE STEEL POLE. DARK BRONZE FINISH.

MISCELLANEOUS LEGEND

NOTE:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

SYMBOL	DESCRIPTION	REMARKS
	CABLE OR MASTER ANTENNA TELEVISION OUTLET, 16" AFF UON	
	DOOR BELL BUTTON, 48" AFF UON	
	DOOR BELL, 84" AFF UON	
	DOOR BELL TRANSFORMER	
	DOOR BUZZER OR CHIME, 84" AFF UON	
T	THERMOSTAT, 48" AFF UON	

MYERS & ASSOCIATES

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M & A job no.: 01-016

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09-30-02

DATE: 09/30/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO.

E4.0

PANEL "H1" LOCATION: ELECTRIC MEZZ. BUS 225 AMPS 277/480 VOLTS, 3 PHASE 4 WIRES
22 K RMS SYM AMPERES MLO 225 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 70.7 x 1.25 = 88.4 + RECEPT. LOAD: 0.0
+' POWER LOAD: 0.0 EQUAL TOTAL CONNECTED LOAD OF: 88.4 KW
DIVIDED BY 0.9 P.F. = 98.1 KVA DIVIDED BY (480 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 118 AMPS
FEEDER SIZE: 4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	LIGHTING-PARKING	10	0.9			20/2	20/1	3.6			2	LIGHTING-CANOPY	2
3	"	–	–			"	20/1					SPARE	4
5	LIGHTING-PARKING	10	2.7			20/2	20/1	2.2			2	LIGHTING-FAÇADE FR.	6
7	"	–	–			"	20/1	2.2			2	LIGHTING-FAÇADE NO.	8
9	LIGHTING-PARKING	10	1.8			20/2	20/1	1.9			2	LIGHTING-EXT. WALLS	10
11	"	–	–			"	20/1	4.0			2	LIGHTING-SHOP	12
13	LIGHTING-PARKING	10	1.8			20/2	20/1	2.3			2	LIGHTING-SHOP	14
15	"	–	–			"	20/1	3.6			2	LIGHTING-SHOP	16
17	LIGHTING-PARKING	10	0.9			20/2	20/1	2.0			2	LIGHTING-WASH BAYS	18
19	"	–	–			"	20/1	2.2			2	LIGHTING-SHOP	20
21	LIGHTING-PARKING	10	1.8			20/2	20/1	0.9			2	LIGHTING-SERVICE	22
23	"	–	–			"	20/1	2.3			2	LIGHTING-PARTS DESK	24
25	LIGHTING-PARKING	10	1.8			20/2	20/1	1.6			2	LIGHTING-BREAK ROOM	26
27	"	–	–			"	20/1	3.6			2	LIGHTING-PARTS STOR.	28
29	LIGHTING-PARKING	10	1.8			20/2	20/1	2.7			2	LIGHTING-OFFICES	30
31	"	–	–			"	20/1	1.9			2	LIGHTING-2ND FL. OFF	32
33	LIGHTING-PARKING	10	1.8			20/2	20/1	2.0			2	LIGHTING-2ND FL. CONF.	34
35	"	–	–			"	20/1	2.5			2	LIGHTING-SHOWROOM	36
37	LIGHTING-PARKING	10	2.7			20/2	20/1	1.7			2	LIGHTING-SHOWROOM	38
39	"	–	–			"	20/1	3.2			2	LIGHTING-SHOWROOM	40
41	LIGHTING-SHOWROOM	2	2.9			20/1	20/1	3.4			2	LIGHTING-SHOWROOM	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "S1" LOCATION: ELECTRIC MEZZ. BUS 225 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 225 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 0.0
+' POWER LOAD: 50.0 EQUAL TOTAL CONNECTED LOAD OF: 50 KW
DIVIDED BY 0.9 P.F. = 56 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 154 AMPS
FEEDER SIZE: 4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	2
3	"	–			–	"	"			–	–	"	4
5	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	6
7	"	–			–	"	"			–	–	"	8
9	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	10
11	"	–			–	"	"			–	–	"	12
13	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	14
15	"	–			–	"	"			–	–	"	16
17	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	18
19	"	–			–	"	"			–	–	"	20
21	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	4-POST LIFT	22
23	"	–			–	"	"			–	–	"	24
25	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	4-POST LIFT	26
27	"	–			–	"	"			–	–	"	28
29	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	30
31	"	–			–	"	"			–	–	"	32
33	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	34
35	"	–			–	"	"			–	–	"	36
37	2-POST LIFT	10			2.5	30/2	30/2			2.5	10	2-POST LIFT	38
39	"	–			–	"	"			–	–	"	40
41	SPARE					20/1	20/1					SPARE	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "L2" LOCATION: ELECTRIC MEZZ. BUS 100 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 100 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 9.7
+' POWER LOAD: 1.0 EQUAL TOTAL CONNECTED LOAD OF: 11 KW
DIVIDED BY 0.9 P.F. = 12 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 33 AMPS
FEEDER SIZE: 4#1, 1#8 GND. & 1#8 ISO. GND. IN 2" CONDUIT
REMARKS: ****PROVIDE WITH ISOLATED GROUND BUS

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	RECEPT.-RECEPTION	1		0.7		20/1	20/1		0.4		1	RECEPT.-GEN. OFFICE	2
3	RECEPT.-GEN. MNGR	1		0.4		20/1	20/1		0.4		1	RECEPT.-GEN. OFFICE	4
5	RECEPT.-GEN. MNGR	1		0.4		20/1	20/1		0.2		1	RECEPT.-GEN. OFFICE	6
7	RECEPT.-GEN. MNGR	1		0.4		20/1	20/1		0.7		1	RECEPT.-GEN. OFFICE	8
9	RECEPT.-GEN. MNGR	1		0.7		20/1	20/1		0.7		1	RECEPT.-GEN. OFFICE	10
11	RECEPT.-GEN. MNGR	1		0.7		20/1	20/1		0.7		1	RECEPT.-GEN. OFFICE	12
13	RECEPT.-GEN. MNGR	1		0.7		20/1	20/1			1.0	1	PHONE BOARD	14
15	RECEPT.-GEN. MNGR	1		0.7		20/1	20/1		0.4		1	RECEPT.-DATA ROOM	16
17	RECEPT.-GEN. MNGR	1		0.7		20/1	20/1		0.4		1	RECEPT.-DATA ROOM	18
19	SPARE					20/1	20/1		0.4		1	RECEPT.-DATA ROOM	20
21	SPARE					20/1	20/1					SPARE	22
23	SPARE					20/1	20/1					SPARE	24
25	SPARE					20/1	20/1					SPARE	26
27	SPARE					20/1	20/1					SPARE	28
29	SPARE					20/1	20/1					SPARE	30
31	SPARE					20/1	20/1					SPARE	32
33	SPARE					20/1	20/1					SPARE	34
35	SPARE					20/1	20/1					SPARE	36
37	SPARE					20/1	20/1					SPARE	38
39	SPARE					20/1	20/1					SPARE	40
41	SPARE					20/1	20/1					SPARE	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "H2" LOCATION: ELECTRIC MEZZ. BUS 225 AMPS 277/480 VOLTS, 3 PHASE 4 WIRES
22 K RMS SYM AMPERES MLO 225 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 4.5 x 1.25 = 5.6 + RECEPT. LOAD: 0.0
+' POWER LOAD: 0.0 EQUAL TOTAL CONNECTED LOAD OF: 5.6 KW
DIVIDED BY 0.9 P.F. = 6.2 KVA DIVIDED BY (480 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 8 AMPS
FEEDER SIZE: 4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	MONUMENT SIGN	2	1.5			20/1	20/1						2
3	MONUMENT SIGN	2	1.5			20/1	20/1						4
5	MONUMENT SIGN	2	1.5			20/1	20/1						6
7						20/1	20/1						8
9						20/1	20/1						10
11						20/1	20/1						12
13						20/1	20/1						14
15						20/1	20/1						16
17						20/1	20/1						18
19						20/1	20/1						20
21						20/1	20/1						22
23						20/1	20/1						24
25						20/1	20/1						26
27						20/1	20/1						28
29						20/1	20/1						30
31						20/1	20/1						32
33						20/1	20/1						34
35						20/1	20/1						36
37						20/1	20/1						38
39						20/1	20/1						40
41						20/1	20/1						42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "S2" LOCATION: ELECTRIC MEZZ. BUS 225 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 225 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 11.9
+' POWER LOAD: 23.8 EQUAL TOTAL CONNECTED LOAD OF: 36 KW
DIVIDED BY 0.9 P.F. = 40 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 110 AMPS
FEEDER SIZE: 4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	RECEPT.-SHOP	2		0.4		20/1	20/1		0.7		2	RECEPT.-SHOP	2
3	RECEPT.-SHOP	2		0.7		20/1	20/1		0.4		2	RECEPT.-SHOP	4
5	RECEPT.-SHOP	2		0.7		20/1	20/1		0.7		2	RECEPT.-SHOP	6
7	RECEPT.-SHOP	2		0.7		20/1	20/1		0.7		2	RECEPT.-SHOP	8
9	RECEPT.-SHOP	2		0.7		20/1	20/1		0.7		2	RECEPT.-SHOP	10
11	RECEPT.-SHOP	2		0.7		20/1	20/1		0.7		2	RECEPT.-SHOP	12
13	RECEPT.-SHOP	2		0.7		20/1	20/1		1.1		2	RECEPT.-WASH BAY	14
15	RECEPT.-SHOP	2		0.7		20/1	20/1		0.9		2	RECEPT.-WASH BAY	16
17	RECEPT.-SHOP	2		0.7		20/1	20/1					SPARE	18
19	SPARE					20/1	20/1					SPARE	20
21	SPARE					20/1	20/1					SPARE	22
23	SPARE					20/1	20/1					SPARE	24
25	SPARE					20/1	20/1			1.0	2	TIRE CHANGING MACHINE	26
27	SPARE					20/1	20/1			1.0	2	ALIGNMENT MACHINE	28
29	AIR DRYER	2			1.6	20/1	20/1			1.0	2	WHEEL BALANCER	30
31	AIR COMPRESSOR	13			6.1	30/3	20/2			2.0	3	ALIGNMENT MACHINE	32
33	"	–			–	"	"			–	–	"	34
35	"	–			–	"	30/2			2.5	10	2-POST LIFT	36
37	AIR COMPRESSOR	13			6.1	30/3	"			–	–	"	38
39	"	–			–	"	30/2			2.5	10	2-POST LIFT	40
41	"	–			–	"	"			–	–	"	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "L3" LOCATION: ELECTRIC MEZZ. BUS 100 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 100 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 3.8 x 1.25 = 4.8 + RECEPT. LOAD: 14.5
+' POWER LOAD: 6.5 EQUAL TOTAL CONNECTED LOAD OF: 26 KW
DIVIDED BY 0.9 P.F. = 29 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 79 AMPS
FEEDER SIZE: 4#1 & 1#8 GND. IN 2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	RECEPT.-OFFICE	2		0.9		20/1	20/1		0.7		2	RECEPT.-SHOW ROOM	2
3	RECEPT.-CONFERENCE	2		0.4		20/1	20/1		0.4		2	RECEPT.-SHOW ROOM	4
5	RECEPT.-SALES	2		0.7		20/1	20/1		0.5		2	RECEPT.-SHOW ROOM	6
7	RECEPT.-SALES	2		0.7		20/1	20/1		1.0		2	TV-SHOWROOM	8
9	RECEPT.-SALES	2		0.4		20/1	20/1		0.4		2	RECEPT.-COFFEE BAR	10
11	TV-CHILDREN'S ROOM	2		1.0		20/1	20/1		0.5		2	RECEPT.-HALLWAY	12
13	RECEPT.-PARTS MGR.	2		0.4		20/1	20/1		0.9		2	RECEPT.-STAIRS	14
15	RECEPT.-RESTROOMS	2		0.4		20/1	20/1		0.9		2	RECEPT.-PARTS	16
17	RECEPT.-RESTROOMS	2		0.4		20/1	20/1		0.5		2	RECEPT.-SVC. MGR.	18
19	REFRIGERATOR	2			1.5	20/1	20/1		0.7		2	RECEPT.-TOOLS	20
21	RECEPT.-BREAK ROOM	2		0.4		20/1	20/1		0.2		2	RECEPT.-BREAK RM. CTR.	22
23	RECEPT.-BREAK ROOM	2		0.5		20/1	20/1		0.7		2	RECEPT.-EXTERIOR	24
25	FIRE WINDOW SCREEN	2			1.5	20/1	20/1		0.9		2	RECEPT.-EXTERIOR	26
27	FIRE DOOR CLOSERS	2			0.5	20/1	20/1					SPARE	28
29	SPARE					20/1	20/1					SPARE	30
31	SPARE					20/1	20/1					SPARE	32
33	SPARE					20/1	20/1					SPARE	34
35	SPARE					20/1	20/1	0.3			2	COUNTER LIGHTING	36
37	SPARE					20/1	20/1	1.6			2	TRACK LIGHT	38
39	EWC	2			1.5	20/1	20/1	1.6			2	TRACK LIGHT	40
41	EWC	2			1.5	20/1	20/1	0.3			2	DOCK LIGHT	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "M1" LOCATION: ELECTRIC MEZZ. BUS 225 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 225 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 0.0
+' POWER LOAD: 38.9 EQUAL TOTAL CONNECTED LOAD OF: 39 KW
DIVIDED BY 0.9 P.F. = 43 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 120 AMPS
FEEDER SIZE: 4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	UH-1	2			0.8	20/1	20/1			1.2	2	EF-1	2
3	UH-2	2			0.8	20/1	20/1			1.2	2	EF-2	4
5	UH-3	2			0.8	20/1	20/1			1.2	2	EF-3	6
7	UH-4	2			0.8	20/1	20/1			1.2	2	EF-4	8
9	UH-5	2			0.8	20/1	20/1			1.2	2	EF-5	10
11	UH-6	2			0.8	20/1	20/1			1.2	2	EF-6	12
13	UH-7	2			0.8	20/1	20/1			1.2	2	EF-7	14
15	UH-8	2			0.8	20/1	20/1			1.2	2	EF-8	16
17	UH-9	2			0.8	20/1	20/1			1.2	2	SF-1	18
19	UH-10	2			0.8	20/1	20/1			1.2	2	EF-10	20
21	UH-11	2			0.3	20/1	30/1			1.7	9	EF-9	22
23	UH-12	2			0.3	20/1	30/1			1.7	9	AHU-1	24
25	GDH-1	2			0.3	20/1	30/1			1.7	9	AHU-2	26
27	AHU-12	2			1.0	20/1	30/1			1.7	9	AHU-3	28
29	SPARE					20/1	30/1			1.7	9	AHU-4	30
31	SPARE					20/1	30/1			1.7	9	AHU-5	32
33	SPARE					20/1	30/1			1.7	9	AHU-6	34
35	SPARE					20/1	30/1			1.7	9	AHU-7	36
37	SPARE					20/1	30/1			1.7	9	AHU-8	38
39	SPARE					20/1	30/1			1.7	9	AHU-9	40
41	SPARE					20/1	30/1					SPARE	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "S3" LOCATION: ELECTRIC MEZZ. BUS 100 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 100 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 8.5
+' POWER LOAD: 0.0 EQUAL TOTAL CONNECTED LOAD OF: 9 KW
DIVIDED BY 0.9 P.F. = 9 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 26 AMPS
FEEDER SIZE: 4#1, 1#8 GND. & 1#8 ISO. GND. IN 2" CONDUIT
REMARKS: ****PROVIDE WITH ISOLATED GROUND BUS

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	RECEPT.-SHOP	1		0.4		20/1	20/1		0.4		1	RECEPT.-SHOP	2
3	RECEPT.-SHOP	1		0.7		20/1	20/1		0.7		1	RECEPT.-SHOP	4
5	RECEPT.-SHOP	1		0.7		20/1	20/1		0.7		1	RECEPT.-SHOP	6
7	RECEPT.-SHOP	1		0.7		20/1	20/1		0.7		1	RECEPT.-SHOP	8
9	RECEPT.-SHOP	1		0.7		20/1	20/1		0.7		1	RECEPT.-SHOP	10
11	RECEPT.-SHOP	1		0.7		20/1	20/1					SPARE	12
13	RECEPT.-SHOP	1		0.7		20/1	20/1					SPARE	14
15	RECEPT.-SHOP	1		0.7		20/1	20/1					SPARE	16
17	SPARE					20/1	20/1					SPARE	18
19	SPARE					20/1	20/1					SPARE	20
21	SPARE					20/1	20/1					SPARE	22
23	SPARE					20/1	20/1					SPARE	24
25	SPARE					20/1	20/1					SPARE	26
27	SPARE					20/1	20/1					SPARE	28
29	SPARE					20/1	20/1					SPARE	30
31	SPARE					20/1	20/1					SPARE	32
33	SPARE					20/1	20/1					SPARE	34
35	SPARE					20/1	20/1					SPARE	36
37	SPARE					20/1	20/1					SPARE	38
39	SPARE					20/1	20/1					SPARE	40
41	SPARE					20/1	20/1					SPARE	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "L4" LOCATION: ELECTRIC MEZZ. BUS 100 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 100 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.3 x 1.25 = 0.4 + RECEPT. LOAD: 3.8
+' POWER LOAD: 15.2 EQUAL TOTAL CONNECTED LOAD OF: 19 KW
DIVIDED BY 0.9 P.F. = 22 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 60 AMPS
FEEDER SIZE: 4#1 & 1#8 GND. IN 2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	RECEPT.-AHU-7 SPACE	2		0.2		20/1	20/1			1.5	2	HWRCP-1	2
3	RECEPT.-MECH ROOMS	2		0.5		20/1	20/1					SPARE	4
5	RECEPT.-RESTROOMS	2		0.4		20/1	20/1			1.5	2	EWC	6
7	RECEPT.-HALLWAY	2		0.9		20/1	20/1			1.5	2	EWC	8
9	SUMP PUMP	2			1.2	20/1	20/1		0.5		2	RECEPT.-BREAK ROOM	10
11	ELEV. PIT LIGHT	2	0.3			20/1	20/1		0.5		2	RECEPT.-BREAK ROOM	12
13	RECEPT.-ELEVATOR RM.	2		0.4		20/1	20/1		0.2		2	RECEPT.-BREAK ROOM	14
15	ELEV. CAB FAN/LIGHT	2			1.5	20/1	20/1		0.2		2	RECEPT.-BREAK ROOM	16
17	LIGHTING TIMECLOCK	2			1.0	20/1	20/1			1.5	2	REFRIGERATOR	18
19	LIGHTING TIMECLOCK	2			1.0	20/1	20/1					SPARE	20
21	SPARE					20/1	20/1					SPARE	22
23	SPARE					20/1	20/1					SPARE	24
25	SPARE					20/1	20/1					SPARE	26
27	SPARE					20/1	20/1					SPARE	28
29	SPARE					20/1	20/1					SPARE	30
31	SPARE					20/1	20/1					SPARE	32
33	SPARE					20/1	20/1					SPARE	34
35	SPARE					20/1	20/1					SPARE	36
37	SPARE					20/1	20/1					SPARE	38
39	SPARE					20/1	30/2			4.5	10	WH-1	40
41	SPARE					20/1	"			–	–	"	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "M2" LOCATION: ELECTRIC MEZZ. BUS 400 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 400 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 0.0
+' POWER LOAD: 93.6 EQUAL TOTAL CONNECTED LOAD OF: 94 KW
DIVIDED BY 0.9 P.F. = 104 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 289 AMPS
FEEDER SIZE: 4#500 KCMIL & 1#3 GND. IN 3 1/2" CONDUIT
REMARKS:

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	CU-1	17			6.8	50/2	50/2			6.8	17	CU-8	2
3	"	–			–	"	"			–	–	"	4
5	CU-2	17			6.8	50/2	50/2			6.8	17	CU-9	6
7	"	–			–	"	"			–	–	"	8
9	CU-3	17			6.8	50/2	60/2			7.8	24	CU-10	10
11	"	–			–	"	"			–	–	"	12
13	CU-4	17			6.8	50/2	50/2			5.5	17	CU-11	14
15	"	–			–	"	"			–	–	"	16
17	CU-5	17			6.8	50/2	30/2			3.2	10	CU-12	18
19	"	–			–	"	"			–	–	"	20
21	CU-6	17			6.8	50/2	60/2			7.8	24	CU-13	22
23	"	–			–	"	"			–	–	"	24
25	CU-7	17			6.8	50/2	20/1					SPARE	26
27	"	–			–	"	20/1					SPARE	28
29	SPARE					20/2	20/1					SPARE	30
31	"					"	20/2			3.1	3	AHU-10	32
33	SPARE					20/2	"			–	–	"	34
35	"					"	20/2			1.9	3	AHU-11	36
37	SPARE					20/1	"			–	–	"	38
39	SPARE					20/1	20/2			3.1	3	AHU-13	40
41	SPARE					20/1	"			–	–	"	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

PANEL "L1" LOCATION: ELECTRIC MEZZ. BUS 100 AMPS 120/208 VOLTS, 3 PHASE 4 WIRES
10 K RMS SYM AMPERES MCB 100 AMPS SURFACE MOUNTED NEMA 1 ENCLOSURE
LIGHTING LOAD: 0.0 x 1.25 = 0.0 + RECEPT. LOAD: 12.1
+' POWER LOAD: 1.0 EQUAL TOTAL CONNECTED LOAD OF: 13 KW
DIVIDED BY 0.9 P.F. = 15 KVA DIVIDED BY (208 VOLTS x 1.73) x 1000 =
TOTAL AMPS: 40 AMPS
FEEDER SIZE: 4#1, 1#8 GND. & 1#8 ISO. GND. IN 2" CONDUIT
REMARKS: ****PROVIDE WITH ISOLATED GROUND BUS

CKT	LOAD DESCRIPTION	WIRE/ CONDUIT*	POWER LOAD LTG	RECP	PWR	C/B	C/B	POWER LOAD LTG	RECP	PWR	WIRE/ CONDUIT*	LOAD DESCRIPTION	CKT
1	RECEPT.-OFFICE	1		0.7		20/1	20/1		0.4		1	RECEPT.-SHOW RM. FLOOR	2
3	RECEPT.-OFFICE	1		0.7		20/1	20/1		0.4		1	RECEPT.-SHOW RM. FLOOR	4
5	RECEPT.-OFFICE	1		0.7		20/1	20/1		0.7		1	RECEPT.-RECEPTION	6
7	RECEPT.-CONFERENCE	1		0.7		20/1	20/1		0.4		1	RECEPT.-CUST. BOOTHS	8
9	RECEPT.-SALES	1		0.4		20/1	20/1		0.4		1	RECEPT.-CUST. BOOTHS	10
11	RECEPT.-SALES	1		0.7		20/1	20/1		0.4		1	RECEPT.-PARTS MNGR.	12
13	RECEPT.-SALES	1		0.7		20/1	20/1		0.2		1	RECEPT.-PARTS	14
15	RECEPT.-SVC. ADVISOR	1		0.5		20/1	20/1		0.2		1	RECEPT.-PARTS	16
17	RECEPT.-SVC. DESK	1		0.7		20/1	20/1		0.7		1	RECEPT.-EXPRESS SVC.	18
19	RECEPT.-SVC. DESK	1		0.7		20/1	20/1		0.7		1	RECEPT.-SVC. MNGR.	20
21	RECEPT.-TOOLS DESK	1		0.4		20/1	20/1			1.0	1	FACP	22
23	RECEPT.-TOOLS DESK	1		0.7		20/1	20/1					SPARE	24
25	SPARE					20/1	20/1					SPARE	26
27	SPARE					20/1	20/1					SPARE	28
29	SPARE					20/1	20/1					SPARE	30
31	SPARE					20/1	20/1					SPARE	32
33	SPARE					20/1	20/1					SPARE	34
35	SPARE					20/1	20/1					SPARE	36
37	SPARE					20/1	20/1					SPARE	38
39	SPARE					20/1	20/1					SPARE	40
41	SPARE					20/1	20/1					SPARE	42

* REFER TO BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZING.

SWITCHBOARD "MSB" LOCATION: EXTERIOR WALL BUS 800 AMPS 277/480 VOLTS 3 PHASE 4 WIRES
65 K RMS SYM AMPERES MAIN SWITCH 800 AMPS NEMA 3R ENCLOSURE
TOTAL LOAD 547.6 kW
DIVIDED BY 0.9 P.F. = 608 kVA
DIVIDE BY (480 VOLTS x 1.73) x 1000=
TOTAL AMPS: 732
FEEDER SIZE: 4 SETS (4#350 KCMIL & 1#1 GND. IN 4" CONDUIT)
REMARKS:

CKT	LOAD DESCRIPTION	LOAD kW	SWITCH SIZE	FUSE SIZE/TYPE	POLES	FEEDER SIZE
1	ELEVATOR	22.5	100A	60A/RK5	3	3#6 & 1#10 GND. IN 1" CONDUIT
2	PANEL "H1"	122.8	225A	225A/RK1	3	4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
3	PANEL "H2" (FUTURE LOAD)	114.4	225A	225A/RK1	3	4#4/0 & 1#4 GND. IN 2 1/2" CONDUIT
4	PANEL "M1" (TRANS. T2)	38.9	125A	125A/RK1	3	3#1/0 & 1#6 GND. IN 1 1/2" CONDUIT
5	PANEL "M2" (TRANS. T3)	93.6	200A	200A/RK1	3	3#2/0 & 1 #6 GND. IN 2" CONDUIT
6	PANEL "S1" (TRANS. T2)	50	125A	125A/RK1	3	3#1/0 & 1#6 GND. IN 1 1/2" CONDUIT
7	PANEL "S2" (TRANS. T2)	35.7	125A	125A/RK1	3	3#1/0 & 1#6 GND. IN 1 1/2" CONDUIT
8	PANEL "S3" (TRANS. T1)	8.5	100A	50A/RK1	3	3#6 & 1#10 GND. IN 1" CONDUIT
9	PANEL "L1" (TRANS. T1)	12.1	100A	50A/RK1	3	3#6 & 1#10 GND. IN 1" CONDUIT
10	PANEL "L2" (TRANS. T1)	10.7	100A	50A/RK1	3	3#6 & 1#10 GND. IN 1" CONDUIT
11	PANEL "L3" (TRANS. T1)	19	100A	50A/RK1	3	3#6 & 1#10 GND. IN 1" CONDUIT
12	PANEL "L4" (TRANS. T1)	19.4	100A	50A/RK1	3	3#6 & 1#10 GND. IN 1" CONDUIT
13	SPARE		100A	100A/RK1	3	
14	SPARE		100A	100A/RK1	3	

MYERS & ASSOCIATES

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M & A job no.: 01–016

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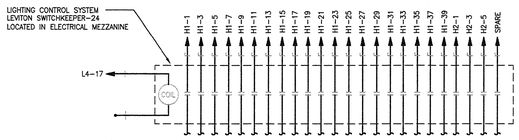
REGISTERED PROFESSIONAL ENGINEER
09-30-02

DATE: 09/30/02

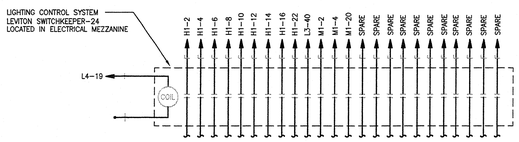
REVISION DATE:

PROJECT NO. 020008

SHEET NO.
E4.1



01 PARKING LIGHTING CONTROL DIAGRAM
NOT TO SCALE



02 BUILDING LIGHTING CONTROL DIAGRAM
NOT TO SCALE

DISCONNECT SWITCH SCHEDULE

REMARKS:

COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED

MARK	VOLTAGE 120	240	277	480	1 PHASE	3 PHASE	AMPERES RATING 30	60	100	200	400	600	800	1200	1600	2000	2500	3000	POLES 1	2	3	S/N	ENCL. NEMA 1	NEMA 3R	FUSES NON-FUSED	FUSE SIZE	FUSE CLASS	REMARKS
1				X		X			X												X		X			60A	RK5	ELEVATOR
2		X				X	X														X			X		30A	RK5	AIR COMPRESSOR
3		X			X			X												X				X		60A	RK5	CU-10 & 13
4		X			X			X												X				X		50A	RK5	CU-1,2,3,4,5,6,7,8,9 & 11
5		X			X		X													X				X		30A	RK5	CU-12
6	X				X		X												X				X			30A	RK5	AHU-1,2,3,4,5,6,7,8 &9
7	X				X		X												X				X			20A	RK5	AHU-12
8		X			X		X													X			X			20A	RK5	AHU-10,11 & 13
9		X			X		X													X			X			30A	RK5	WH-1

TRANSFORMER SCHEDULE

REMARKS:

A. COORDINATE WALL HUNG AND/OR TRAPEZE HUNG TRANSFORMERS WITH STRUCTURAL ENGINEER AND ARCHITECT FOR BLOCKING AND STRUCTURAL SUPPORT.

B. PLACE ON 3 1/2" HOUSEKEEPING PAD, COORDINATE WITH CONCRETE WORK.

MARK	PRIMARY VOLTAGE 240	480	1 PHASE	3 PHASE	KVA RATING 15	30	45	75	112.5	150	225	300	500	SECONDARY VOLTAGE 120 / 240	120 / 208	1 PHASE	3 PHASE	ENCL. NEMA 1	NEMA 3R	MOUNTING	REMARKS
T1		X		X		X								X			X	X		SUSPENDED	PANELS-L1,L2,L3,L4,S3
T2		X		X				X						X			X	X		FLOOR	PANELS-M1,S1,S2
T3		X		X					X					X			X	X		FLOOR	PANEL-M2

ELECTRICAL LOAD ANALYSIS

NOTES:

	KW
1. LIGHTING LOAD:	
A. LIGHTING LOAD: 101.7 KW x 1.25	= 127.1
2. RECEPTACLE LOAD:	
A. 60.5 KW – 10 KW= 50.5 KW x 50% = 25.3 KW + 10 KW	= 35.3
3. EQUIPMENT LOAD:	
A. A/C	= 123.6
B. HEAT	= 8.9
C. SHOP EQUIPMENT	= 73.8
D. ELEVATOR	= 22.5
E. MISCELLANEOUS	= 15.0
4. KITCHEN LOAD:	
A. KW x 100 % DEMAND FACTOR (NEC 220-20)	= 0.0
5. 25% OF LARGEST MOTOR:	= 5.6
6. TOTAL CONNECTED LOAD (KW):	= 411.8 KW
7. TOTAL CONNECTED LOAD: 411.8 KW DIVIDE BY .9 PF = 457.5 KVA	
8. FUTURE LOAD: 114.4 KVA + TOTAL CONNECTED LOAD: 457.5 KVA	= 571.9 KVA
9. TOTAL AMP LOAD OF: 689 AMPS AT 480 VOLT, 3 PHASE, 4 WIRE	

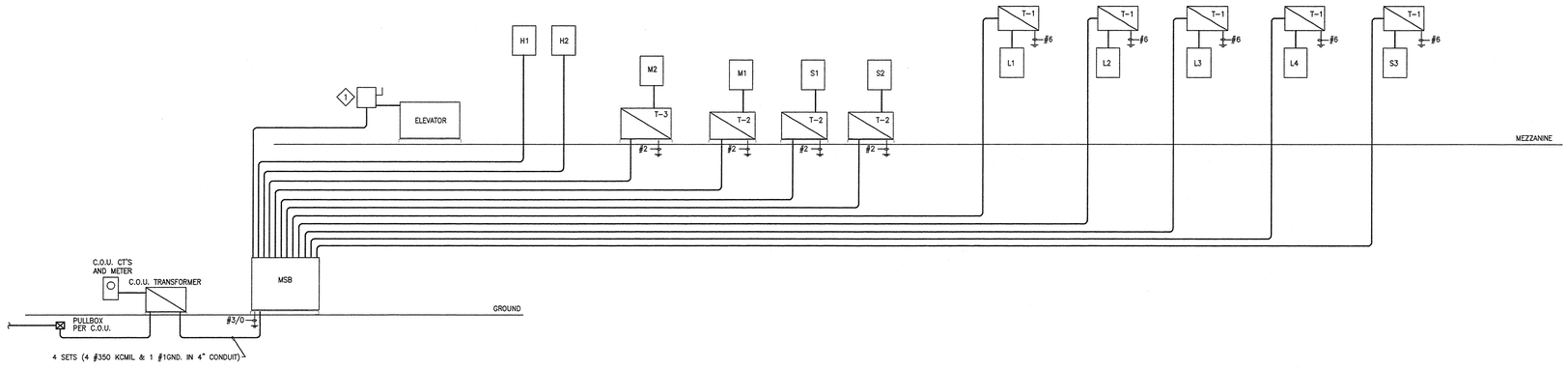
REMARKS: 800 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE SERVICE

COMBINATION STARTER/DISCONNECT SWITCH SCHEDULE

REMARKS:

COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED

MARK	VOLTAGE 120	240	277	480	1 PHASE	3 PHASE	AMPERES RATING 30	60	100	200	400	600	800	NEMA SIZE 1	2	3	4	5	POLES 1	2	3	S/N	ENCL. NEMA 1	NEMA 3R	FUSES NON-FUSED	FUSE SIZE	FUSE CLASS	REMARKS
1		X			X		X							X						X			X			20A	RK5	ALIGNMENT MACHINE
2		X			X		X							X						X			X			30A	RK5	CAR LIFTS



03 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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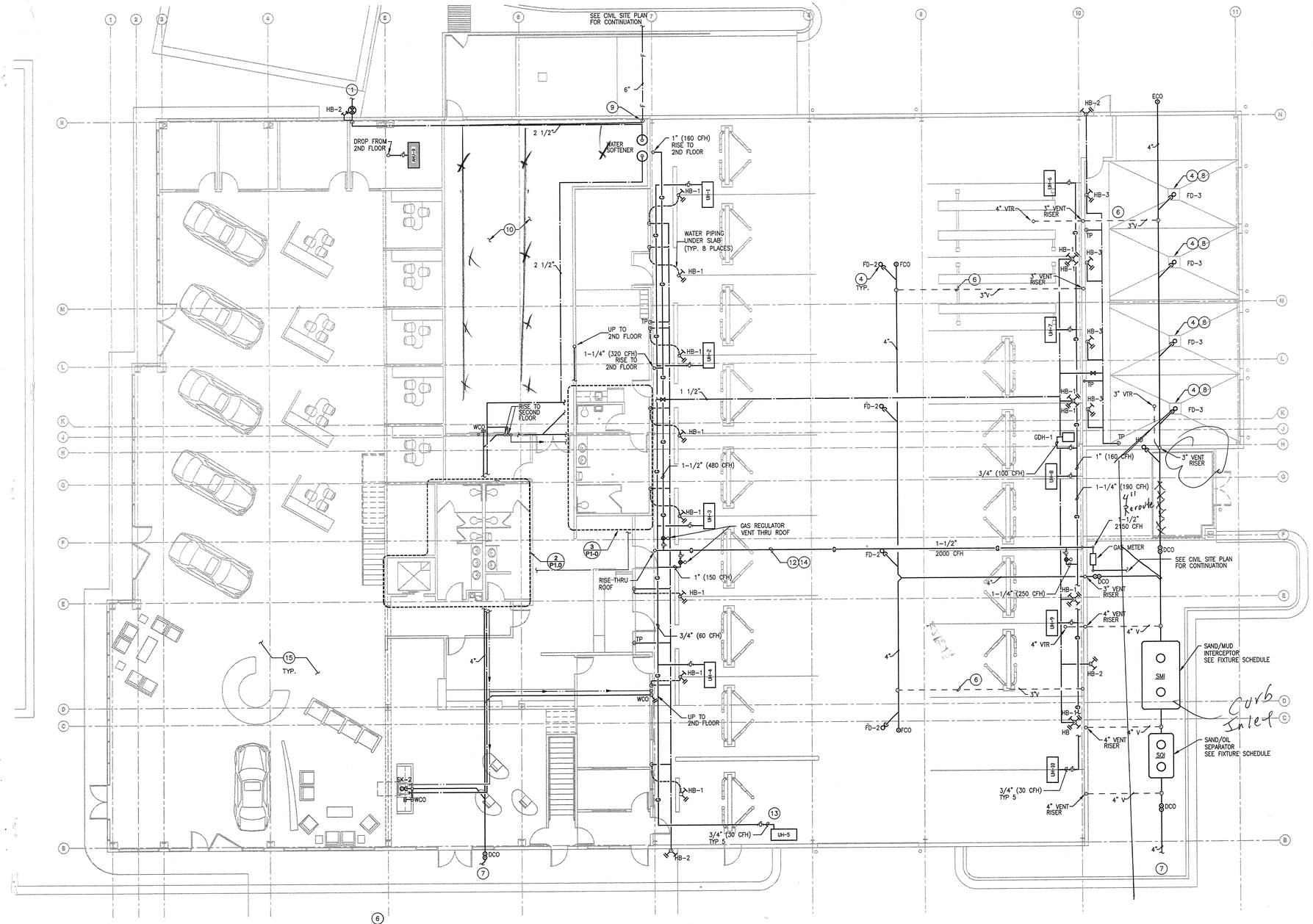
09-20-02

DATE: 09/20/02

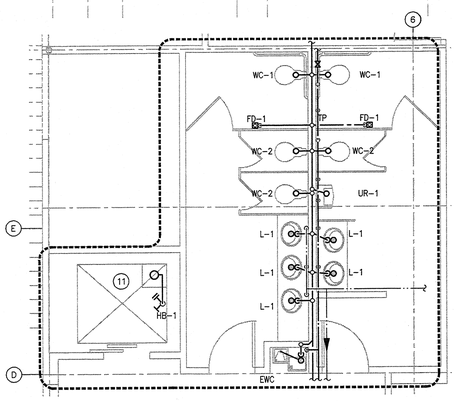
REVISION DATE:

PROJECT NO. 020008

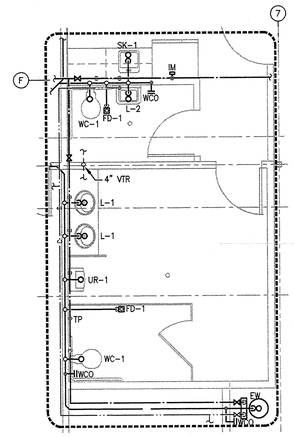
SHEET NO. E4.2



01 FIRST FLOOR - PLUMBING PLAN
SCALE: 1/8" = 1'-0"



02 FIRST FLOOR - ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"



03 FIRST FLOOR - ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL PLUMBING FIXTURES AS SCHEDULED.
2. COORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE MINIMUM 10' HORIZONTAL CLEARANCE BETWEEN VENTS, EXHAUST OUTLETS, AND OUTSIDE AIR INTAKES.
3. COORDINATE WITH ROOFING CONTRACTOR TO PROVIDE AND INSTALL FLASHING FOR VENT PIPING IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND ROOF MANUFACTURER'S RECOMMENDATIONS.
4. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PLANS TO AVOID INTERFERENCE OF WASTE AND VENT PIPING WITH STRUCTURAL COLUMNS AND FOOTINGS.
5. REFER TO FIXTURE SCHEDULE, SHEET P2.3 AND PLUMBING DETAILS, SHEET P2.2 FOR MORE INFORMATION.

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. EXTEND NEW WATER LINE INTO BUILDING FROM STUB PROVIDED BY CIVIL SITE UTILITY CONTRACTOR. PROVIDE GATE VALVE IN VALVE BOX. ROUTE WATER PIPING VERTICALLY INSIDE OF EXTERIOR WALL AND THEN HORIZONTALLY IN OVERHEAD STRUCTURE AS HIGH AS POSSIBLE. COORDINATE WITH CIVIL SITE UTILITY CONTRACTOR FOR EXACT LOCATION OF NEW WATER SERVICE ENTRANCE.
2. ROUTE HOT AND COLD WATER LINES ABOVE CEILING AND DROP TO ALL FIXTURES. INSULATE ALL HOT AND COLD WATER LINES. COORDINATE WITH STRUCTURAL AND MECHANICAL CONTRACTORS TO AVOID INTERFERENCE.
3. CONNECT WASTE WATER PIPING TO SANITARY SEWER STUB PROVIDED BY CIVIL SITE UTILITY CONTRACTOR. REFER TO CIVIL SITE UTILITY PLAN FOR EXACT LOCATION OF CONNECTION POINT.
4. PROVIDE TRAP PRIMER AND 1/2" TRAP PRIMER LINE TO ALL FLOOR DRAINS AND HUB DRAINS.
5. PROVIDE PLUMBING ROUGH-IN, WALL BOX, AND MAKE FINAL CONNECTIONS TO ICE MAKER OF REFRIGERATOR PROVIDED BY OWNER.
6. HORIZONTAL VENT BELOW SLAB.
7. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
8. CATCH BASIN WITH TRAFFIC RATED GRATE (BY OTHERS).
9. LOCATION OF 6" FIRE SPRINKLER RISER. REFER TO DETAIL 10, SHEET P2-2.
10. INSTALL FIRE SPRINKLER SYSTEM IN PARTS STORAGE AREA PER NFPA13. CONFIRM ALL REQUIREMENTS WITH CITY OF GEORGETOWN.
11. PROVIDE SUMP PUMP IN ELEVATOR PIT. REFER TO FIXTURE SCHEDULE AND DETAIL 02, SHEET P1.0. VERIFY PUMP LOCATION AND PIPE ROUTING WITH ELEVATOR EQUIPMENT INSTALLER.
12. HIGH PRESSURE (5PSI) GAS LINE SIZED PER STANDARD PLUMBING CODE BASED ON 400' FROM METER TO FURTHEST LOW PRESSURE REGULATOR.
13. LOW PRESSURE (7 IN MC) GAS LINE SIZED PER STANDARD PLUMBING CODE BASED ON 100' FROM LOW PRESSURE REGULATOR TO FURTHEST GAS APPLIANCE.
14. ROUTE GAS LINE AS HIGH AS POSSIBLE.
15. REFER TO ARCHITECTURAL FOR ALL ROOF DRAIN PIPING. ALL PIPING TO BE BY PLUMBER.

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9/30/08

DATE: 04/30/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. P1.0

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M & A Job no.: 01-016

GENERAL NOTES

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4. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PLANS TO AVOID INTERFERENCE OF WASTE AND VENT PIPING WITH STRUCTURAL COLUMNS AND FOOTINGS.
5. REFER TO PLUMBING FIXTURES SCHEDULE SHEET P2.3 AND PLUMBING DETAILS SHEET P2.2 FOR MORE INFORMATION.

KEYED NOTES

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1. ROUTE HOT AND COLD WATER LINES ABOVE CEILING AND DROP TO ALL FIXTURES. INSULATE ALL HOT AND COLD WATER LINES. COORDINATE WITH STRUCTURAL AND MECHANICAL CONTRACTORS TO AVOID INTERFERENCE.
2. PROVIDE TRAP PRIMER AND 1/2" TRAP PRIMER LINE TO ALL FLOOR DRAINS AND HUB DRAINS.
3. PROVIDE WATER HEATER ON 4" CONCRETE HOUSE KEEPING PAD IN MECHANICAL ROOM.
4. HIGH PRESSURE (5PSI) GAS LINE SIZED PER STANDARD PLUMBING CODE BASED ON 400' FROM METER TO FURTHEST LOW PRESSURE REGULATOR.
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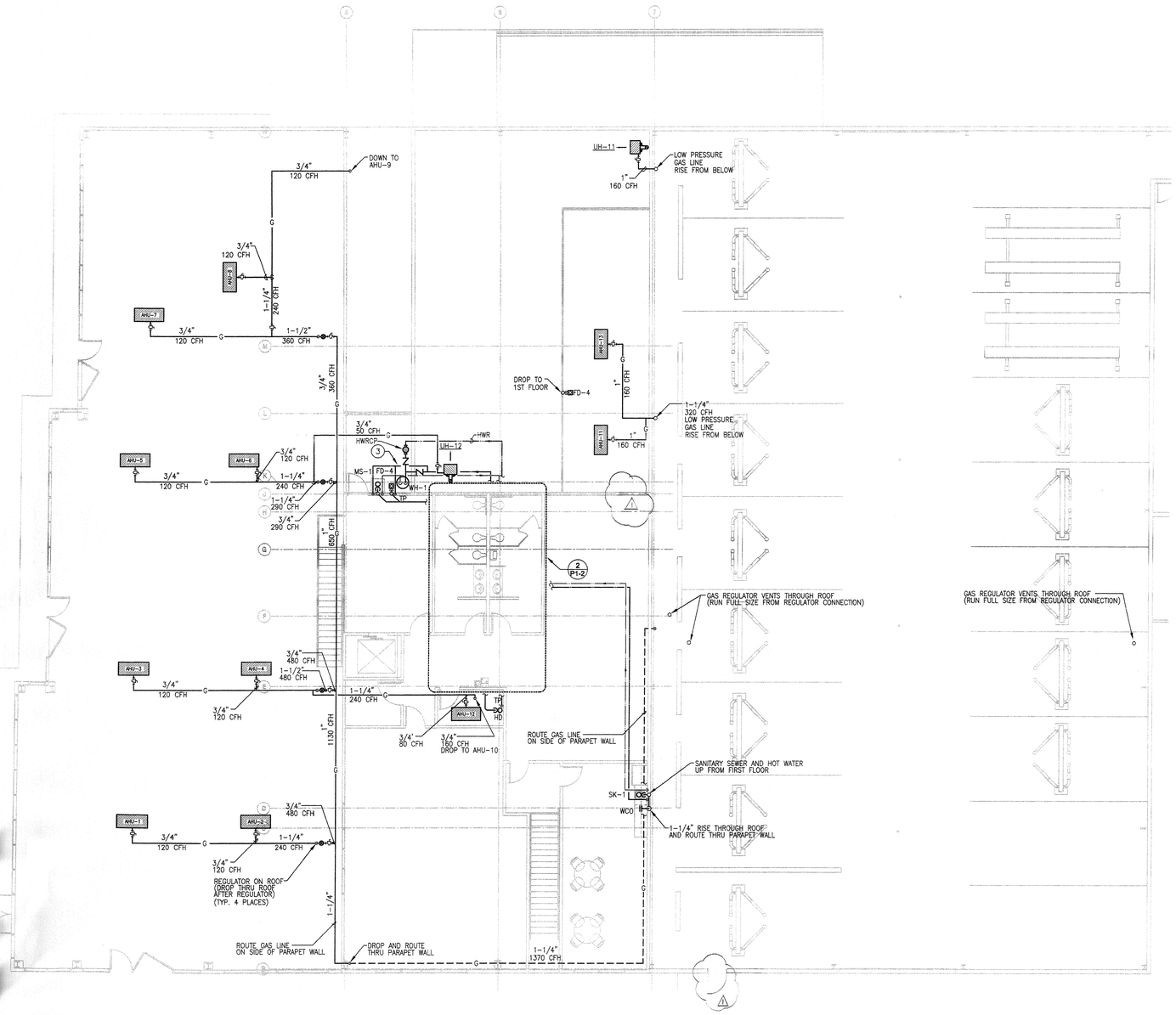
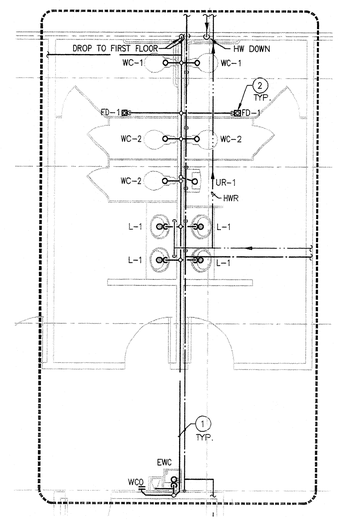


01 SECOND FLOOR - PLUMBING PLAN

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



02 SECOND FLOOR - ENLARGED PLUMBING PLAN

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

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9/20/02

REVISIONS:

NO.	DESCRIPTION
1	RELOCATED DROP
2	REVISED DOOR

DATE: 09/20/02

REVISION DATE:
1 12-04-02

PROJECT NO.
020008

SHEET NO.
P1.1

GENERAL NOTES

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KEYED NOTES

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1. ROUTE HOT AND COLD WATER LINES ABOVE CEILING AND DROP TO ALL FIXTURES. INSULATE ALL HOT AND COLD WATER LINES. COORDINATE WITH STRUCTURAL AND MECHANICAL CONTRACTORS TO AVOID INTERFERENCE.
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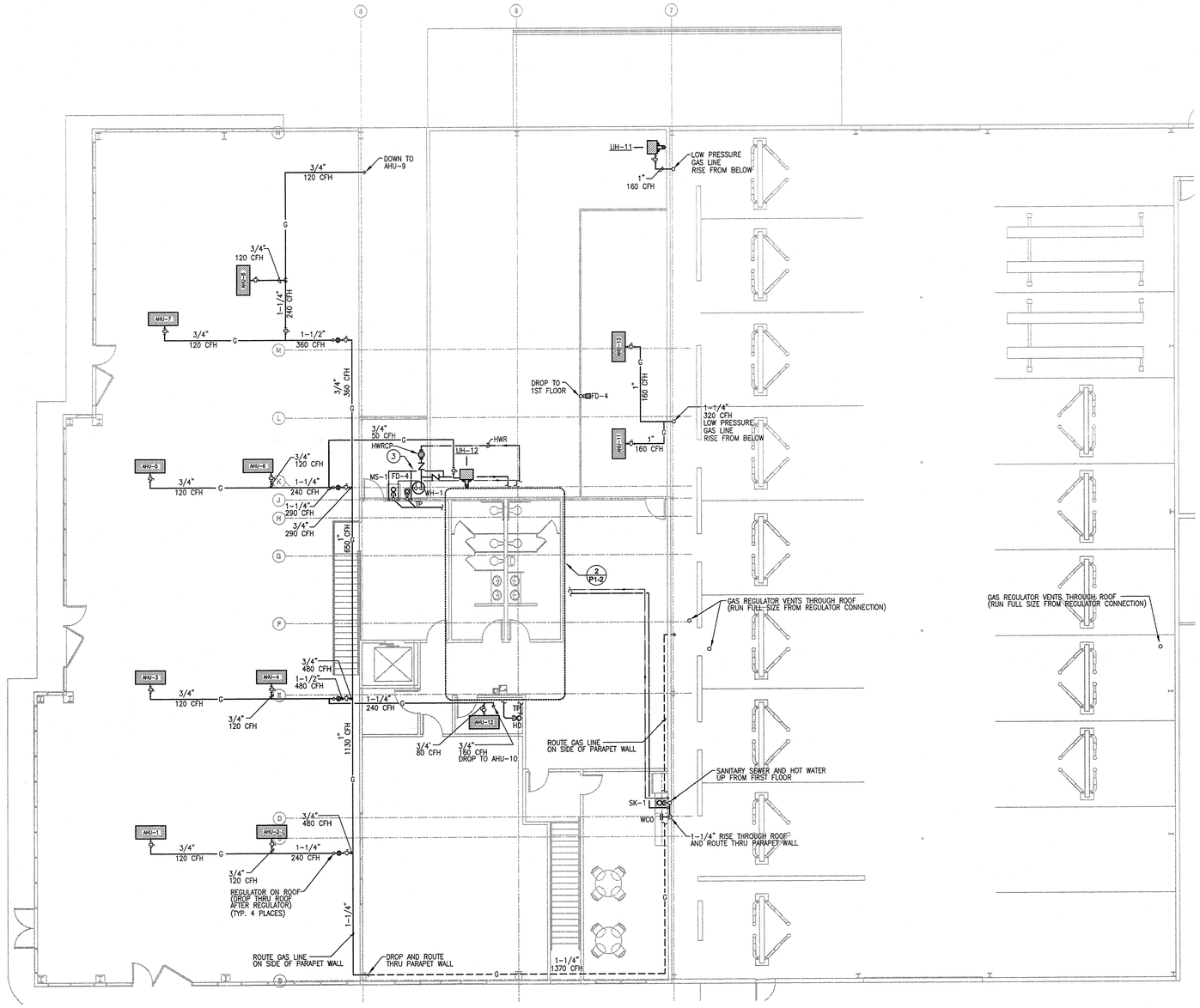
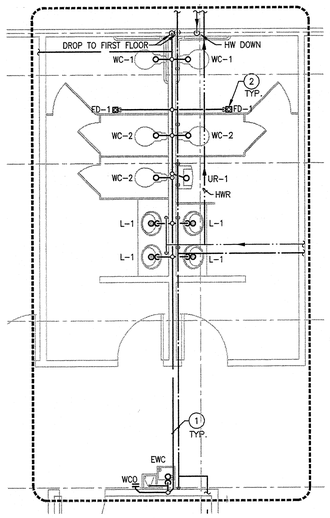


01 SECOND FLOOR - PLUMBING PLAN
SCALE: 1/8" = 1'-0"



02 SECOND FLOOR - ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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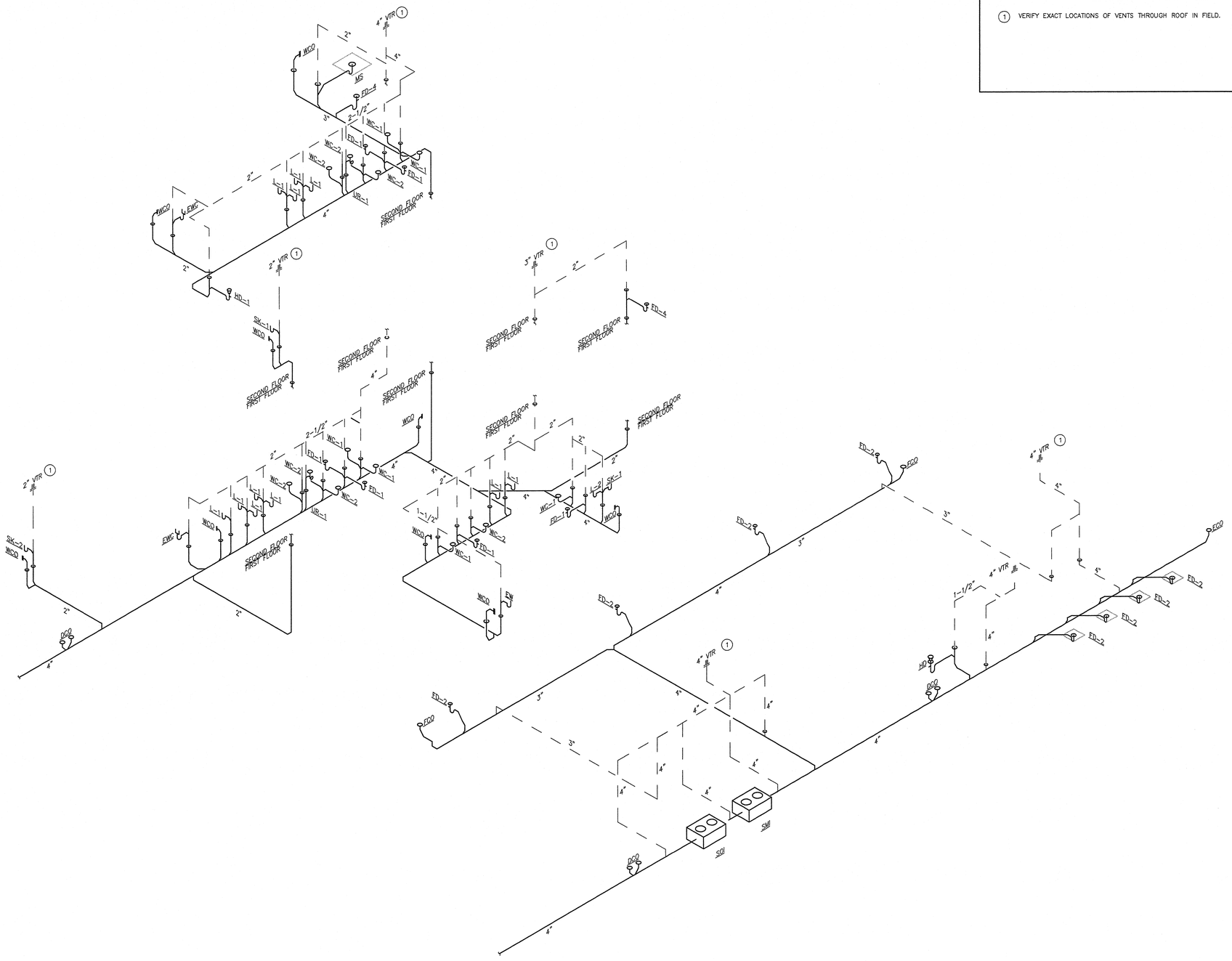
4/20/08

SEE REVISION

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

1. VERIFY EXACT LOCATIONS OF VENTS THROUGH ROOF IN FIELD.



01 WASTE WATER ISOMETRIC

SCALE: NOT TO SCALE

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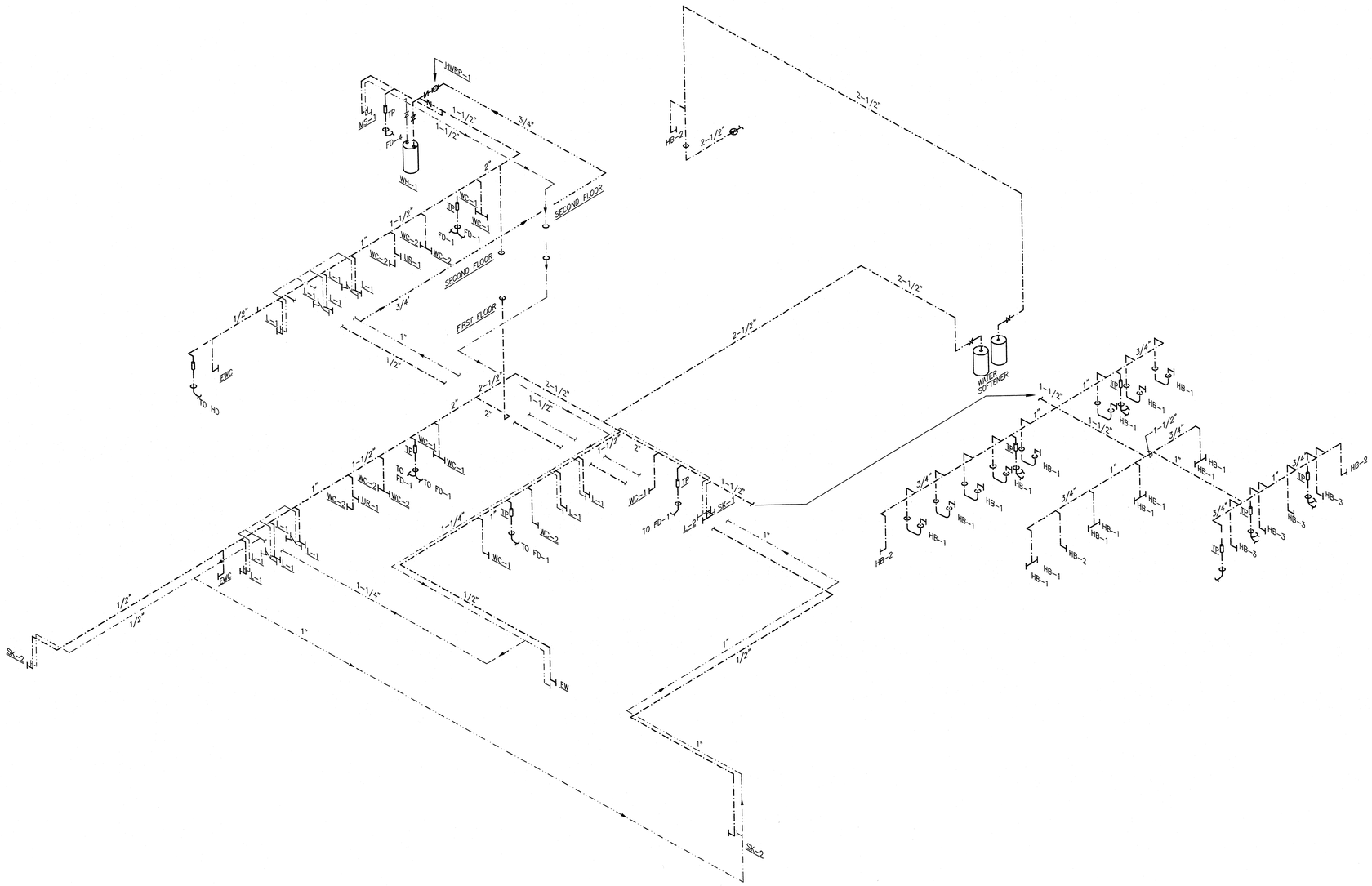
REVISION DATE:

PROJECT NO. 020008

SHEET NO. P2.0



01 HOT AND COLD WATER ISOMETRIC

SCALE: NOT TO SCALE

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DATE: 09/20/02

REVISION DATE:

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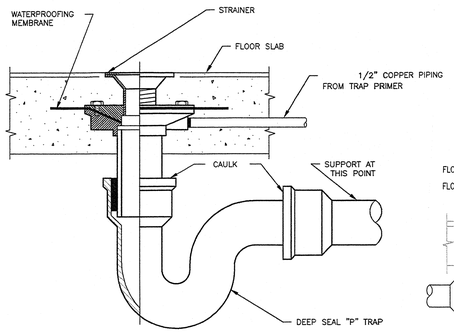
SHEET NO. P2.1



01 FLOOR DRAIN DETAIL
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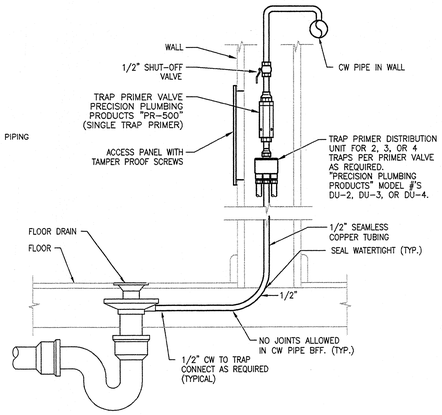

02 MULTIPLE TRAP - PRIMER DETAIL
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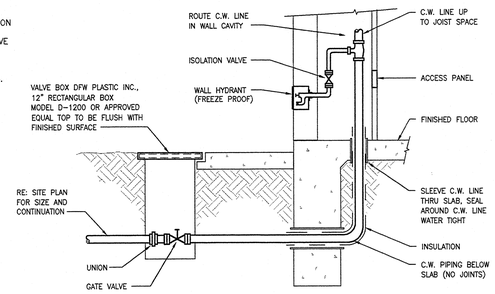

03 C.W. BUILDING ENTRY DETAIL
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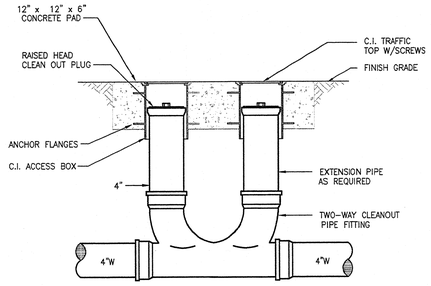
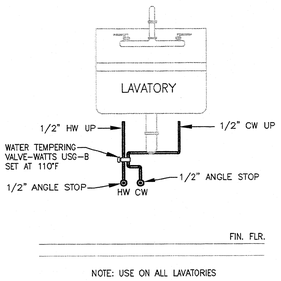


04 DOUBLE CLEAN OUT DETAIL
SCALE: NOT TO SCALE



11 WATER TEMPERING DETAIL
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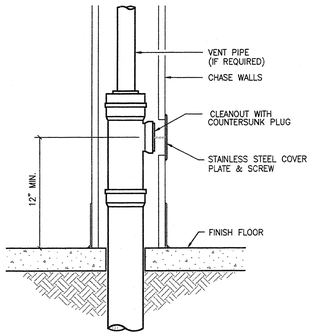

05 WALL CLEANOUT DETAIL
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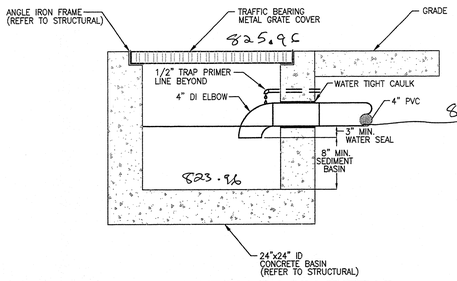

06 WASHBAY CATCH BASIN DETAIL
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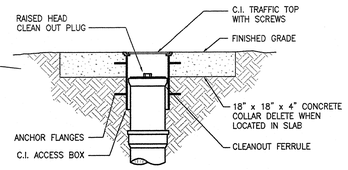
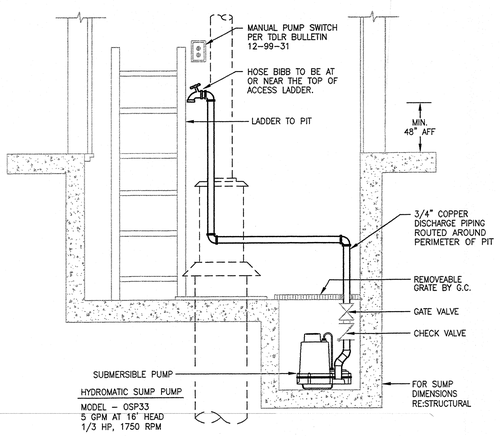
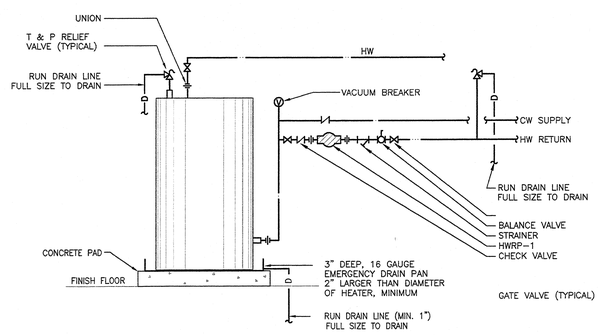


07 EXTERIOR CLEANOUT DETAIL
SCALE: NOT TO SCALE



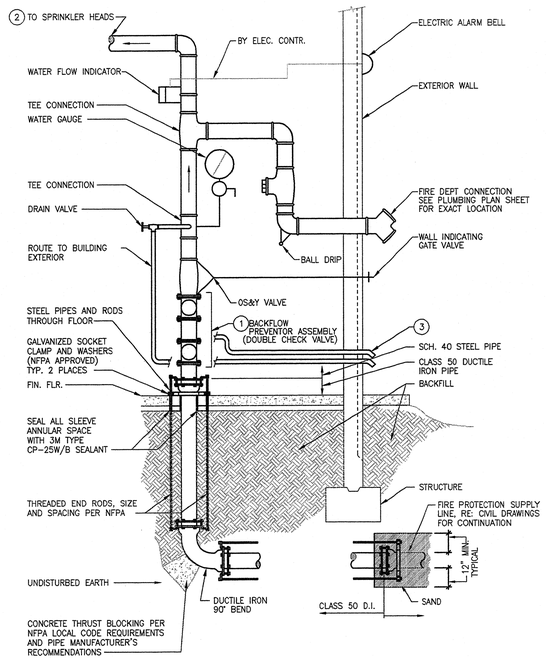
NOTE: SUMP PUMP INSTALLATION PER TDLR BULLETIN 12-99-31.

08 ELEVATOR SUMP PUMP DETAIL
SCALE: NOT TO SCALE



NOTE: INSTALL HOTWATER RECIRCULATION PUMP AND STRAINER IN LOCATION ACCESSIBLE FOR MAINTENANCE.

09 WATER HEATER DETAIL
N.T.S.



KEYED NOTES:

1. BACKFLOW PREVENTER ASSEMBLY SHALL:
   - A.) HAVE FULL UNIVERSITY OF SOUTHERN CALIFORNIA'S FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH APPROVAL.
   - B.) BE OPERATIONALLY TESTED BY A BACKFLOW TESTER REGISTERED BY THE CITY OF AUSTIN WATER AND WASTE WATER DEPARTMENT.
2. REFER TO FIRE SPRINKLER SHOP DRAWINGS FOR EXACT INSTALLATION REQUIREMENTS.
3. ROUTE FIRE SPRINKLER DRAIN AND BACKFLOW PREVENTER DISCHARGE THROUGH WALL TO BUILDING EXTERIOR. TERMINATE AT 45° ELBOW TURN DOWN AT 12" ABOVE PAVING.

GENERAL NOTE:
COAT ALL METAL PARTS WITH FOSTER 60-26 MASTIC, (UNDERGROUND ONLY)

10 FIRE RISER SUPPORT DETAIL
SCALE: NOT TO SCALE

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9/20/02

DATE: 09/20/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. P2.2

FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE / EQUIPMENT	MODEL NO.	SIZE / CAPACITY	TRIM / ACCESSORIES	REMARKS
WC-1	WATER CLOSET	AMERICAN STANDARD 3043.102 MADERA 17" H EL	FLUSH VALVE TOP SPUD	WHITE, CHURCH 9500C SEAT, WITH SLOAN ROYAL 111 FLUSH VALVE	ADA COMPLIANT 1.6 GPF, 10" ROUGH-IN
WC-2	WATER CLOSET	AMERICAN STANDARD 2234.015 MADERA EL	FLUSH VALVE TOP SPUD	WHITE, CHURCH 9500C SEAT, WITH SLOAN ROYAL 111 FLUSH VALVE	1.6 GPF, 10" ROUGH-IN
UR-1 UR-2	URINAL	AMERICAN STANDARD 6501.010 WASHBROOK	FLUSH VALVE TOP SPUD	WHITE, WITH SLOAN ROYAL 186.1 FLUSH VALVE, AND SS STRAINER	ADA COMPLIANT 1.0 GPF MOUNT UR-1 AT ADA HEIGHT
L-1	COUNTER MOUNT LAVATORY	AMERICAN STANDARD 0476.028 AQUALYN	20.5" X 17" OVAL	WHITE, WITH 2385.403 FAUCET, SUPPLIES WITH STOPS, WALL HANGER, CHROME PLATED P-TRAP, STRAINER DRAIN & SUPPLY INSUL. PER A.D.A. REQUIREMENTS	ADA COMPLIANT
L-2	WALL MOUNT LAVATORY	AMERICAN STANDARD 0321.026 DECLYN	19" X 17"	WHITE, WITH 2385.403 FAUCET, SUPPLIES WITH STOPS, WALL HANGER, CHROME PLATED P-TRAP, STRAINER DRAIN & SUPPLY INSUL. PER A.D.A. REQUIREMENTS	ADA COMPLIANT
SK-1	SINGLE COMP. KITCHEN SINK STAINLESS STEEL	ELKAY GECR-2521L	25" X 21"	LK-4100F FAUCET, LK-35-L DRAIN	ADA COMPLIANT THREE FAUCET HOLES
SK-2	BAR SINK STAINLESS STEEL	ELKAY BLRAD1516-55	15" X 15"	LK-2432 FAUCET, LK-35-L DRAIN	ADA COMPLIANT TWO FAUCET HOLES
MS-1	FLOOR MOUNT SERVICE SINK	FIAT MSB-2424	24" X 24'	WITH 830-AA FAUCET, 832-AA HOSE/ BRACKET, E-77-AA VINYL BUMPER GUARD, MSG-2424 SS WALL GUARD, DRAIN AND P-TRAP	
EWC	DUAL HEIGHT DRINKING FOUNTAIN	ELKAY EZSTL8C	.	WITH ELKAY LKAPREZL APRON, 8.0 GPH, 120V/1P, 3.7 AMPS, 325 WATTS	A.D.A. COMPLIANT
EW	EMERGENCY EYE/FACE WASH	HAWS 7000BT	.	PROVIDE WITH THERMOSTATIC MIXING VALVE	A.D.A. COMPLIANT
WH-1	WATER HEATER	A.O. SMITH DEN-52	50 GALLON (2) 4500 WATT ELEMENTS	208 V., 1-PH. ELECTRICAL SERVICE WIRED FOR NON-SIMULTANEOUS OPERATION	23 GPH @ 80°F RISE
FD-1	FLOOR DRAIN	ZURN ZN-415	3" PIPE SIZE	WITH 6" DIA. TYPE B STRAINER, P-TRAP WITH TRAP PRIMER CONNECTION	POLISHED NICKEL BRONZE FINISH
FD-2	FLOOR DRAIN	ZURN ZN-415	3" PIPE SIZE	WITH 6" DIA TYPE H TRAFFIC RATED STRAINER, P-TRAP WITH TRAP PRIMER CONNECTION	POLISHED NICKEL BRONZE FINISH
FD-3	CATCH BASIN	.	4" PIPE SIZE	FABRICATED CATCH BASIN PROVIDE TRAP PRIMER CONNECTION	REFER TO DETAIL
FD-4	FLOOR DRAIN	ZURN ZN-415	3" PIPE SIZE	WITH 6" DIA. TYPE B STRAINER, ZN-328 (6") FUNNEL, P-TRAP WITH TRAP PRIMER CONNECTION	POLISHED NICKEL BRONZE FINISH
HD	HUB DRAIN	ZURN Z-326	2" PIPE SIZE	INDIRECT WASTE DRAIN (6" FUNNEL), P-TRAP WITH TRAP PRIMER CONNECTION	
SA	SHOCK ARRESTOR	ZURN SHOKTROL	2" PIPE SIZE	BELLOWS TYPE	
TP	TRAP PRIMER	PRECISION PLUMBING PR-500	.	1/2" COPPER FITTINGS	
WCO	WALL CLEANOUT	ZURN Z-1441-BP	.	COATED CAST IRON BODY W/ THREADED BRONZE PLUG, ROUND SS COVER	
FCO	FLOOR CLEANOUT	ZURN ZN-1400-K-BP	.	COATED CAST IRON BODY W/POL. NICKEL-BRONZE TOP, THREADED BRONZE PLUG, ANCHOR FLANGE	
ECO/DCO	EXTERIOR CLEANOUT	ZURN ZN-1400-HD-K-BP	.	COATED CAST IRON BODY W/ HEAVY DUTY TOP, THREADED BRONZE PLUG, ANCHOR FLANGE	
IM	REFRIGERATOR/ICEMAKER WALL BOX	OATEY 38680	.	HIGH IMPACT POLYSTYRENE RECESSED BOX WITH FACEPLATE, 1/4 TURN COMPRESSION VALVE, 1/2" CPVC TUBING	
HWRCP	HOT WATER RECIRCULATION PUMP	GRUNDFOS UPS 15-42F	3 GPM @ 7 FT HEAD 120 V., 0.40 A, 45 W 1/25 HP MOTOR	IN-LINE SINGLE STAGE WET ROTOR TYPE WITH MOTOR MOUNTED DIRECTLY TO THE PUMP VOLUTE. PROVIDE THERMOSTAT TIMER ASSEMBLY.	3 SPEED (SET AT SPEED 1)
HB-1	HOSE BIBB	WOODFORD #26C SERIES	1/2"	ANTI-SIPHON WALL HYDRANT 1/2" COPPER SWEAT INLET, UNPOLISHED BRASS FINISH	FURNISH WITH METAL HANDLE
HB-2	HOSE BIBB	WOODFORD #867C SERIES	1/2"	FREEZELESS, ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT W/ FLUSH BOX, 1/2" COPPER SWEAT INLET, UNPOLISHED BRASS FINISH	FURNISH WITH LOOSE KEY FOR DOOR AND FAUCET
HB-3	HOSE BIBB	WOODFORD #17C SERIES	1/2"	FREEZELESS, ANTI-SIPHON WALL HYDRANT, 1/2" COPPER SWEAT INLET, UNPOLISHED BRASS FINISH	FURNISH WITH METAL HANDLE
SMI	SAND/MUD INTERCEPTOR	HILL COUNTRY CONCRETE PRODUCTS	1500 GAL	2 COMPARTMENT CONCRETE BASIN WITH (2) 24" DIA MANHOLE LIDS	
SOI	SAND/OIL INTERCEPTOR	PARK EQUIPMENT SOCMP-750	750 GAL	2 COMPARTMENT CONCRETE BASIN WITH (2) 24" DIA MANHOLE LIDS AND COELESCING MEDIA PACK	
	WATER SOFTENER SYSTEM			SIZE FOR 100 GPM DOMESTIC WATER DEMAND	

EQUIPMENT SCHEDULE NOTES

- SPEEDWAY STR-1715A OR STCR-1915A STOPS AND 17 GAUGE CHROME PLATED BRASS FIXTURE P-TRAPS FOR ALL ES, AND DRINKING FOUNTAINS UNLESS NOTED OTHERWISE.
- ER PIPING WITH TRAP PRIMERS ACCESSIBLE BEHIND ACCESS PANEL AND DOOR.
- N WATER PIPING SYSTEM.
- PROVED MANUFACTURER'S LIST.
- ULATION FOR A.D.A. COMPLIANCE; "LAV GUARD", BY TRUEBRO, INC.

GENERAL PLUMBING NOTES

A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, STANDARD BUILDING CODE, STANDARD MECHANICAL CODE, STANDARD PLUMBING CODE, NATIONAL ELECTRIC CODE, AGA AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE STATUTES GOVERN.

C. ALL CONTRACTORS SHALL COORDINATE THROUGH THE PROJECT CONSTRUCTION MANAGER.

D. ALL PIPING DIMENSIONS ARE NOMINAL PIPE SIZES, PER ASTM AND ANSI STANDARDS.

E. ALL EQUIPMENT CLEARANCE DIMENSIONS ARE TO NEAREST OBJECTS OR STRUCTURES SHOWN.

F. TRANSITION FROM PIPE SIZE SHOWN TO EQUIPMENT. ALLOW FOR CLEARANCE BETWEEN STRUCTURAL JOISTS.

G. CONFIRM LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING EQUIPMENT WITH OWNER AND CONSTRUCTION MANAGER AND OTHER TRADES PRIOR TO INSTALLATION.

H. COORDINATE PLACEMENT AND SUPPORTS FOR ALL EQUIPMENT WITH STRUCTURAL ENGINEER DURING STRUCTURAL SHOP DRAWING PHASE.

I. BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS. COORDINATE ALL UTILITY TIE-INS WITH OWNER.

J. FIRE SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH FIRE WALLS, CEILINGS AND TUNNELS.

K. MAINTAIN MINIMUM CLEARANCES AROUND EQUIPMENT ACCESS AREAS PER MANUFACTURER'S RECOMMENDATIONS.

L. PROVIDE ENGRAVED LABELS FOR ALL EQUIPMENT AND ASSOCIATED SUPPORT EQUIPMENT.

M. THE PLUMBING CONTRACTOR IS TO COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION.

N. THE CONTRACTOR IS TO DEMONSTRATE OPERATION OF PLUMBING EQUIPMENT AND RELATED SYSTEMS TO MAINTENANCE PERSONNEL UPON COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SPARE PARTS LISTS, MANUALS AND OPERATING PROCEDURES FOR ALL EQUIPMENT TO PERSONNEL AT THE TIME OF DEMONSTRATION. PROVIDE OWNER WITH A TYPED LIST OF ALL NEW AND EXISTING EQUIPMENT, INDICATING MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, PHASE, HORSEPOWER RATING, ETC.

O. FIELD LOCATE AND ROUTE ALL REQUIRED PIPING THAT IS NOT CLEARLY SHOWN IN THE DRAWINGS.

P. ALL HOT AND COLD WATER PIPING TO BE ENTIRELY INSULATED PER THE PROJECT SPECIFICATIONS.

Q. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT INSTALL OR FABRICATE ANY WORK SHOWN UNTIL ALL SUCH WORK IS FULLY COORDINATED. NOT ALL OFFSETS AND FITTINGS ARE SHOWN. PROVIDE OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS AT NO ADDITIONAL COSTS TO THE OWNER.

R. GUARANTEE WORK FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP.

S. SYMBOLS ARE ILLUSTRATIVE IN NATURE AND ARE PROVIDED ONLY FOR USE OF REFERENCE.

T. PLUMBING CONTRACTOR SHALL PROVIDE ALL INCIDENTAL PARTS AND FITTINGS TO MAKE FOR A COMPLETE INSTALLATION OF ALL PLUMBING EQUIPMENT AND FIXTURES.

U. AFTER WASTEWATER PIPING IS TESTED PER CODE, CONTACT OWNER FOR OBSERVATION OF FLOOR DRAINS TO CHECK FOR PROPER DRAINAGE.

PLUMBING LEGEND

SYMBOL	ABB.	DESCRIPTION
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	WW	WASTE WATER
	V	VENT PIPING
— T —	TW	TEMPERED WATER
— G —	G	LOW PRESSURE GAS PIPING
— MPG —	MPG	MEDIUM PRESSURE GAS PIPING
— F —	F	FIRE
— GT —	GT	GREASE TRAP PIPING
— A —	A	COMPRESSED AIR PIPING
— AD —	AD	AUXILIARY DRAIN PIPING
— D —	D	DRAIN PIPING
— R —	R	RELIEF PIPING
— SD —	SD	STORM DRAIN
— RD —	RD	ROOF DRAINAGE PIPING
— OD —	OD	OVERFLOW DRAINAGE PIPING
		BLOCK VALVE
	HB	HOSE BIBB/WALL HYDRANT
		UNION
	FD/FS	FLOOR DRAIN/FLOOR SINK
	HD	HUB DRAIN
	CO	CLEAN OUT
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
		GAS COCK
		BALANCE VALVE
		CHECK VALVE
		DOUBLE CLEAN OUT
		POINT OF CONNECTION
		GAS REGULATOR
		PRESSURE REGULATOR
	VB	VACUUM BREAKER

PLUMBING ABBREVIATION

AFF	ABOVE FINISHED FLOOR	IWH	INSTANTANEOUS WATER HEATER
BFP	BACKFLOW PREVENTOR	LAV	LAVATORY
BFF	BELOW FINISHED FLOOR	MECH	MECHANICAL
CLD	CLOTHES DRYER	NTS	NOT TO SCALE
CLW	CLOTHES WASHER	NO.	NUMBER
CO	CLEANOUT	PH	PHASE
CW	COLD WATER	PLBG	PLUMBING
DIA	DIAMETER	RPZ	REDUCED PRESSURE ZONE
DCO	DOUBLE CLEAN OUT	SI	SOLIDS INTERCEPTOR
DN	DOWN	SK	SINK
DWG	DRAWING	TP	TRAP PRIMER
ECO	EXTERIOR CLEAN OUT	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	UR	URINAL
EWH	ELECTRIC WATER HEATER	UNO	UNLESS NOTED OTHERWISE
FCO	FLOOR CLEAN OUT	V	VENT (PLUMBING)
FD	FLOOR DRAIN	VTR	VENT THROUGH ROOF
GW	GREASE WASTE	W/	WITH
GWH	GAS WATER HEATER	WC	WATER CLOSET
HD	HUB DRAIN	WCO	WALL CLEANOUT
HP	HORSEPOWER	WH	WATER HEATER
HT	HEIGHT	WHA	WATER HAMMER ARRESTOR
HW	HOT WATER	WCB	WASHER CONNECTION BOX
HWR	HOT WATER RETURN		

FIXTURE CONNECTION SCHEDULE

MARK	CW	HW	WASTE	VENT
WATER CLOSET (FLUSH VALVE)	1"	–	4"	2"
URINAL	3/4"	–	2"	2"
LAVATORY *	1/2"	1/2"	2"	1-1/2"
SINK	1/2"	1/2"	2"	1-1/2"
SERVICE SINK	3/4"	3/4"	3"	2"
EWC	1/2"	–	2"	1-1/2"

* HOT AND COLD WATER REQUIRED UNLESS NOTED OTHERWISE ON PLUMBING FIXTURE SCHEDULE.

PLUMBING CALCULATIONS

FIXTURE	QUANTITY		WATER F.U.		SEWER F.U.	
	NEW	EXISTING	EACH	TOTAL	EACH	TOTAL
WC	12		10	120	6	72
UR	3		5	15	4	12
LAV	13		2	26	1	13
SINK (GENERAL)	3		2	6	2	6
SINK (SERVICE)	1		3	3	3	3
EWC	2		0.25	0.5	0.5	1
CATCH BASIN	4				8	32
C.W. TOTAL GPM			171 FU	83 GPM		
S. S. TOTAL GPM						139 FU

1997 SPC TABLE E102:

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DATE: 09/20/02

REVISION DATE:

PROJECT NO. 020008

SHEET NO. P2.3

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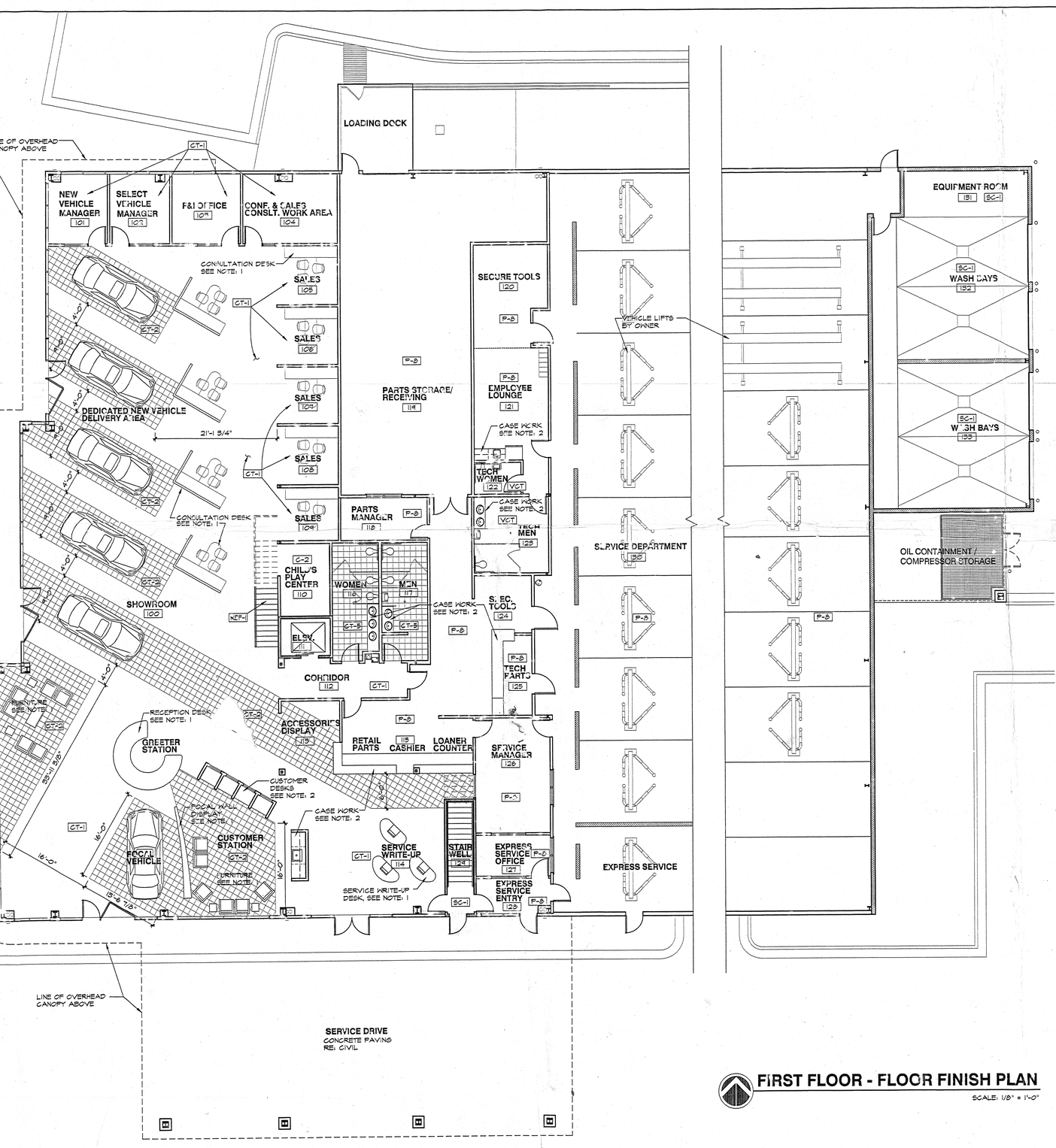
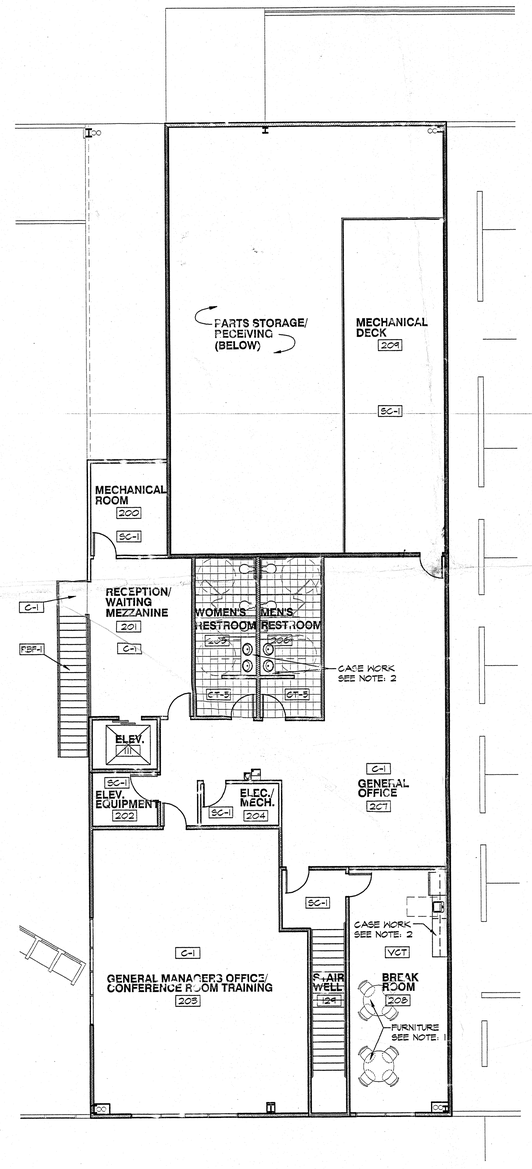


FIRST FLOOR - FLOOR FINISH PLAN

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



SECOND FLOOR - FLOOR FINISH PLAN

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

NOTES:

1. OWNER TO FURNISH ALL REQUIRED FURNITURE AND DISPLAY MATERIAL AS NOTED IN THE PROJECT MANUAL.
2. CUSTOM CASE WORK TO BE IN CONTRACTORS BID.

LEGEND:

CT-1 FLOOR FINISH TYPE, REFER TO A8.3 FOR SPECIFICATIONS

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REVISION DATE:

PROJECT NO. 02008

SHEET NO.

A9.0