

Gossett
Alpharetta, GA

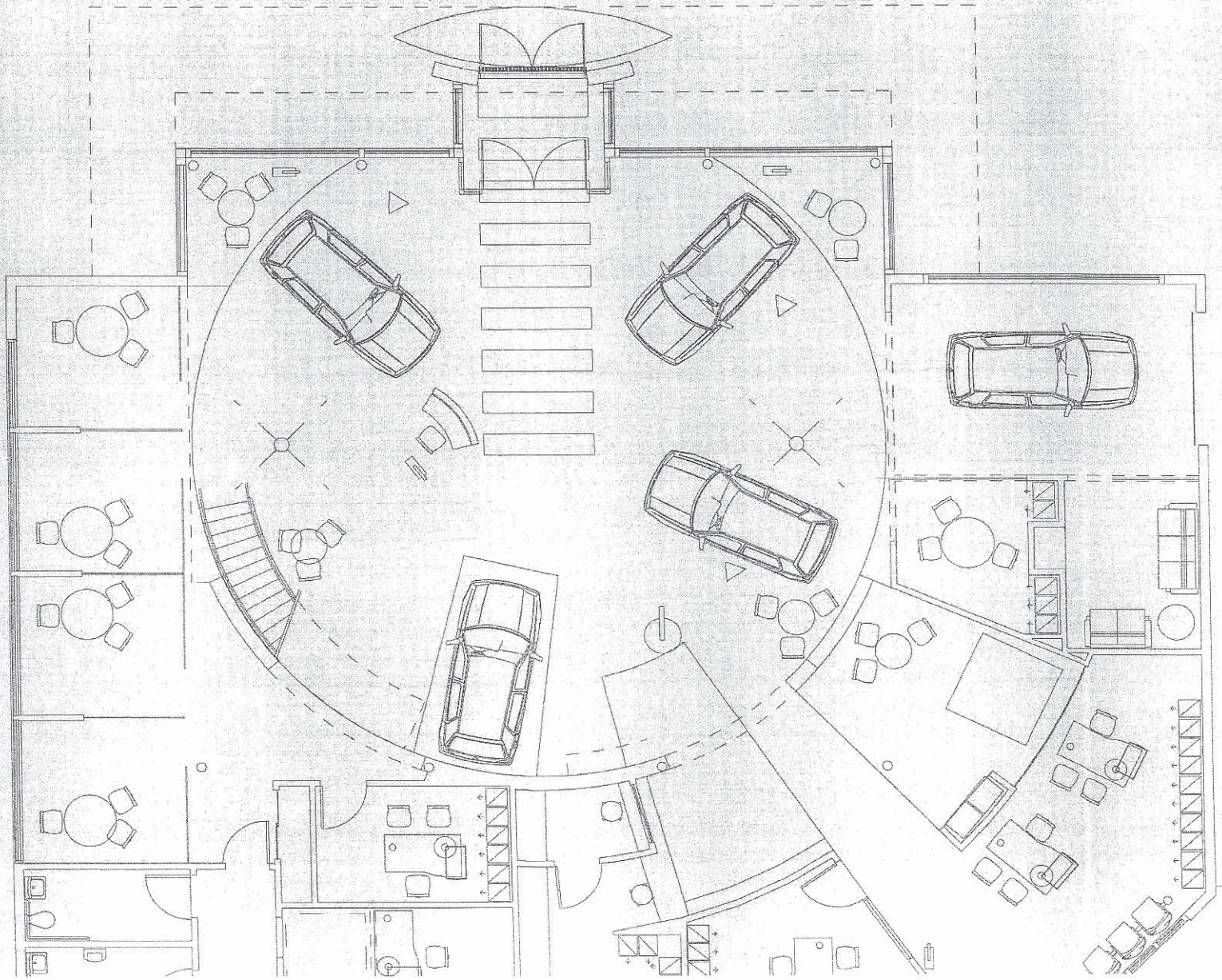
Design Criteria Document
December 22, 1999

Gensler



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Site Specific Interior Rendering

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(N.A.) Not Applicable



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

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	12/22/99			

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Description: Table of Contents

Scale: NA.

Overview

Awareness of brand Volkswagen is growing, fueled by an increasing demand for new models, better product quality, improved customer satisfaction and creative new advertising campaigns. The dealership is where customers experience the brand and its personality: Volkswagen people, cars, lifestyle and information. Volkswagen has made a worldwide commitment to enhancing the experience through implementation of the Volkswagen Marketplace facility design.

This new architecture and showroom concept centers around the creation of an inviting and friendly environment, unique to Volkswagen. Its versatile design allows for site-specific modifications while maintaining a globally consistent identity for the brand. These design intent documents illustrate the global Volkswagen Marketplace Design, adapted to meet our market requirements, and also contain the design's architectural and merchandising guidelines. **Dealers Wanted.**



Purpose and Usage

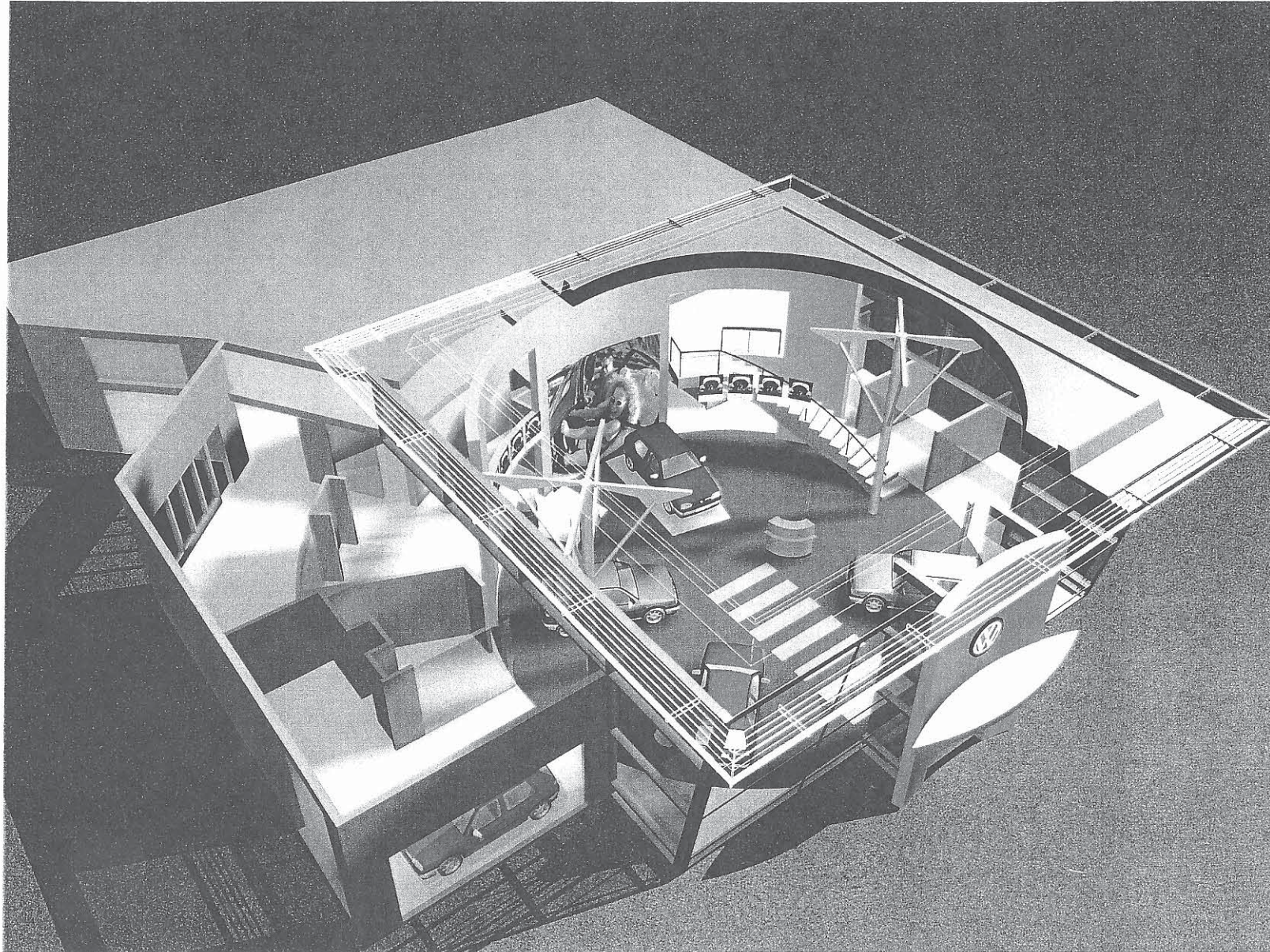
This single-source reference book illustrates the design concept for the Volkswagen Marketplace in North America: a new dealership environment that addresses site, architecture, signage, showroom fixtures and furniture. These design intent documents serve as criteria for the building design, siting, and positioning of components for the Volkswagen Marketplace architecture and showroom.

The Marketplace Design encompasses a system of flexible architectural and graphic components that accommodate a variety of building types. Site specific conditions that require modification of the standard design intent will need special consideration to maintain architectural and graphic consistency with the Volkswagen Marketplace. These design intent documents present an overview of the design and provide reference drawings for the planning of the various building types and the placement of branding elements. Each branding element is designed so that all components operate together.

The Volkswagen Marketplace Design reflects the high standards associated with the brand and ensures that it is immediately recognizable. It creates an environment that is a combination of engineering and emotion
the key to the brand personality of Volkswagen.

These design criteria documents are intended to convey the design intent and finish material specification. Use of these documents for actual construction or to obtain building permits is expressly forbidden. Compliance with all state and local building codes and ordinances, zoning codes, fire regulations, and ADA regulations is the responsibility of the licensed architect and engineer, and is beyond the scope of the design intent documents.



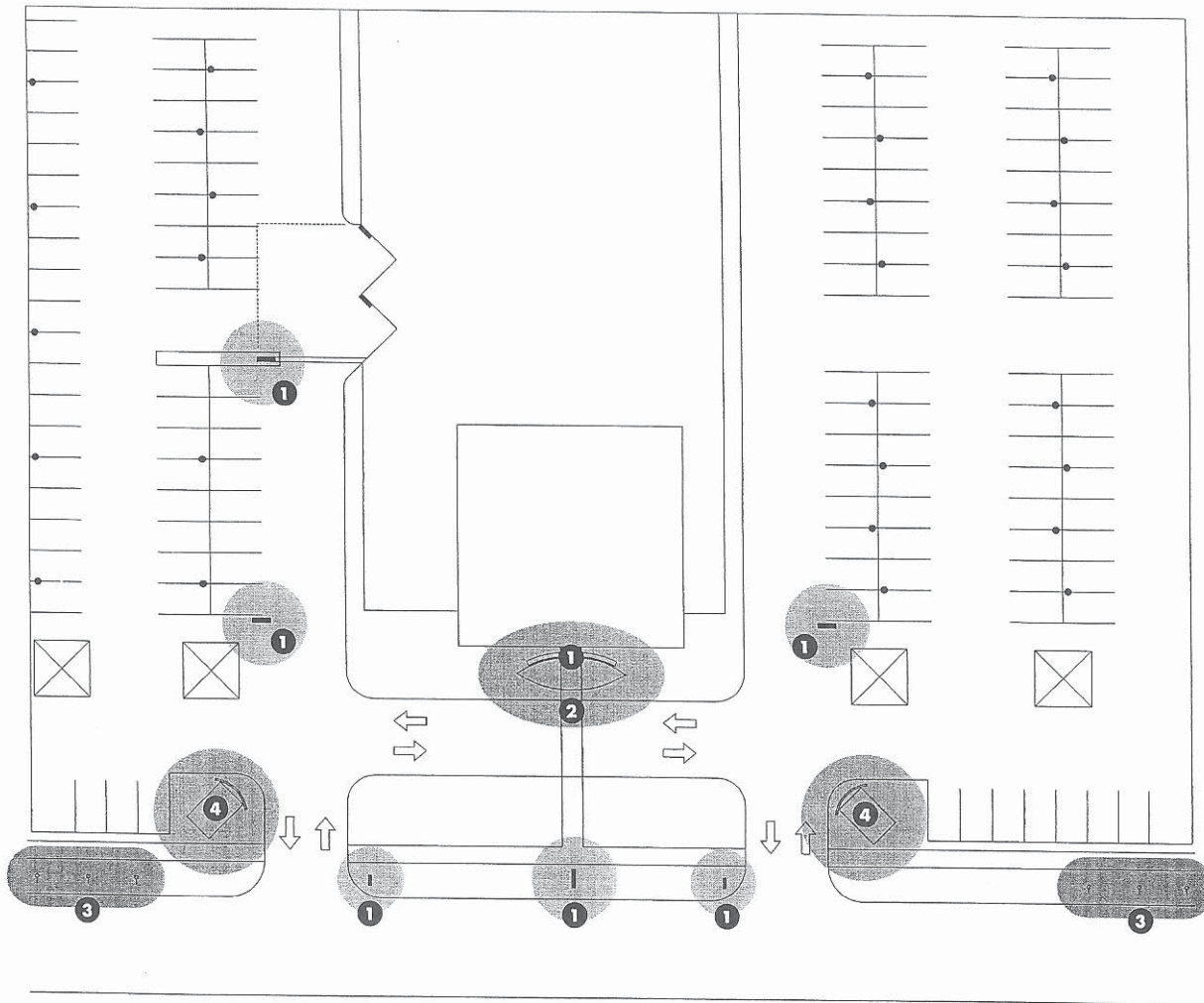


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Cut-Away Axonometric - New Exclusive

Exterior Branding Elements

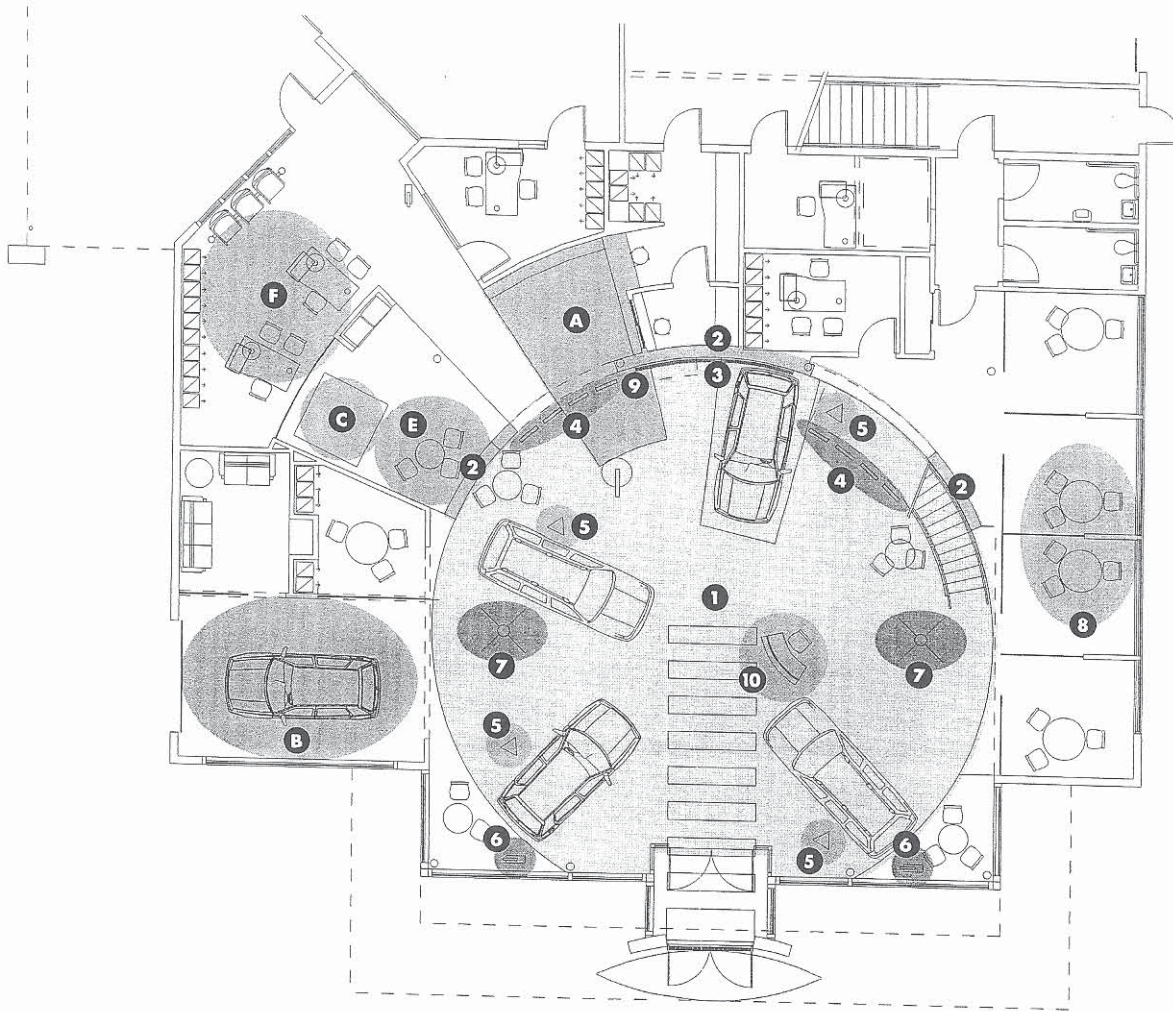
- ① Signage including pylon, VW clip & nameplate)
- ② Entry portal and canopy
 - Exterior color palette
- ③ Outdoor banners
- ④ Lot talker
 - Ten degree sloped glazing



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Exterior Branding Elements

Interior Branding Elements

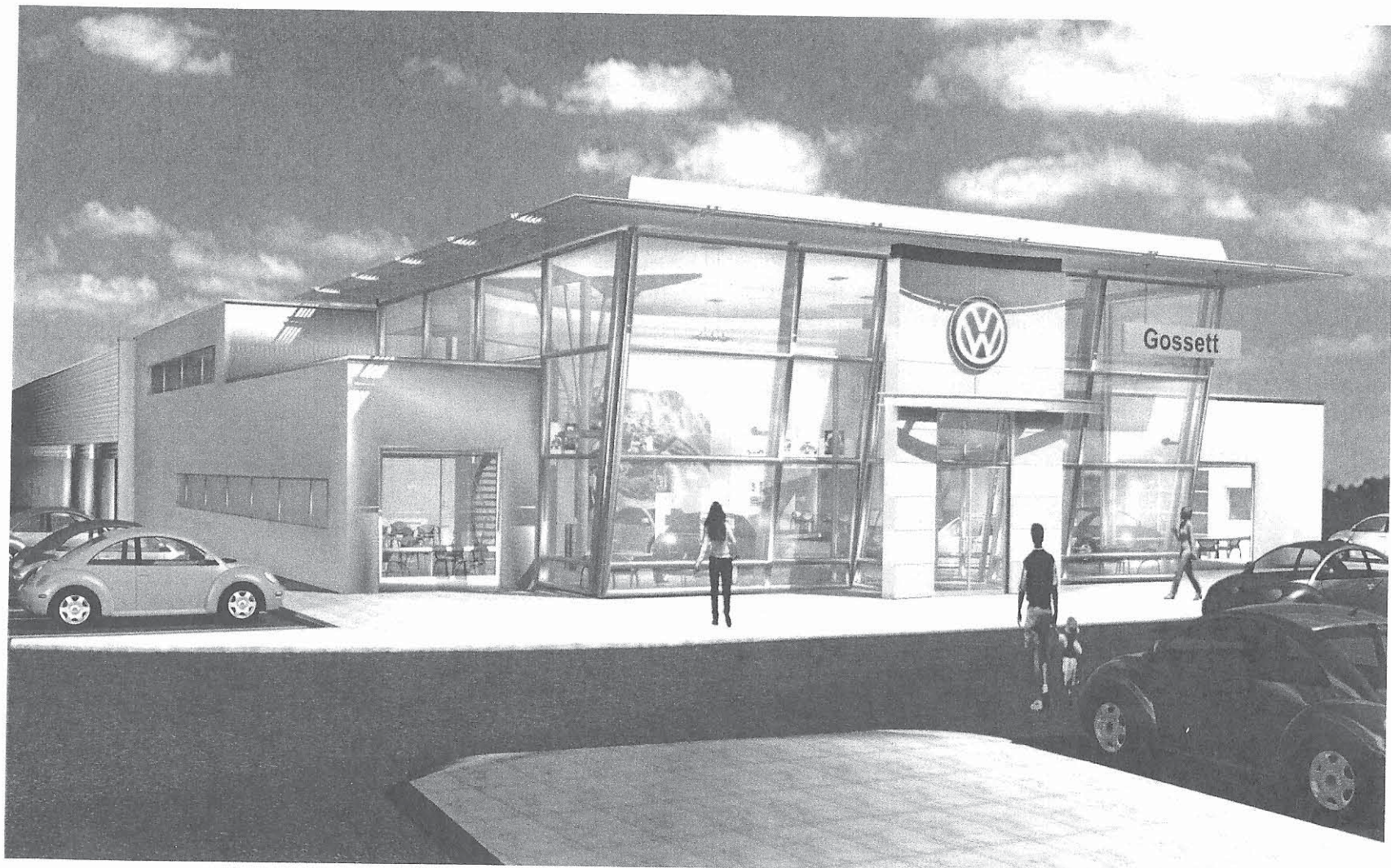


- A** Retail area
- B** New car delivery area
- C** Children's play area
 - Customer business center
- E** Dedicated customer waiting area
- F** Dedicated service incl. write-up & cashier
 - Visibility into service department
 - Interior signage
- 1** Radius floor plan
- 2** Curved back wall
- 3** Focal point large wall graphic
- 4** Historical posters
 - Color & materials palette
- 5** Interior product pylons
- 6** Dealer/promotion poster stand
- 7** Interior "umbrella" columns (new constr. only)
- 8** VW approved furniture
- 9** Computer kiosk with internet access
- 10** Reception desk



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Interior Branding Elements



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Gossett - Site Specific Exterior Rendering



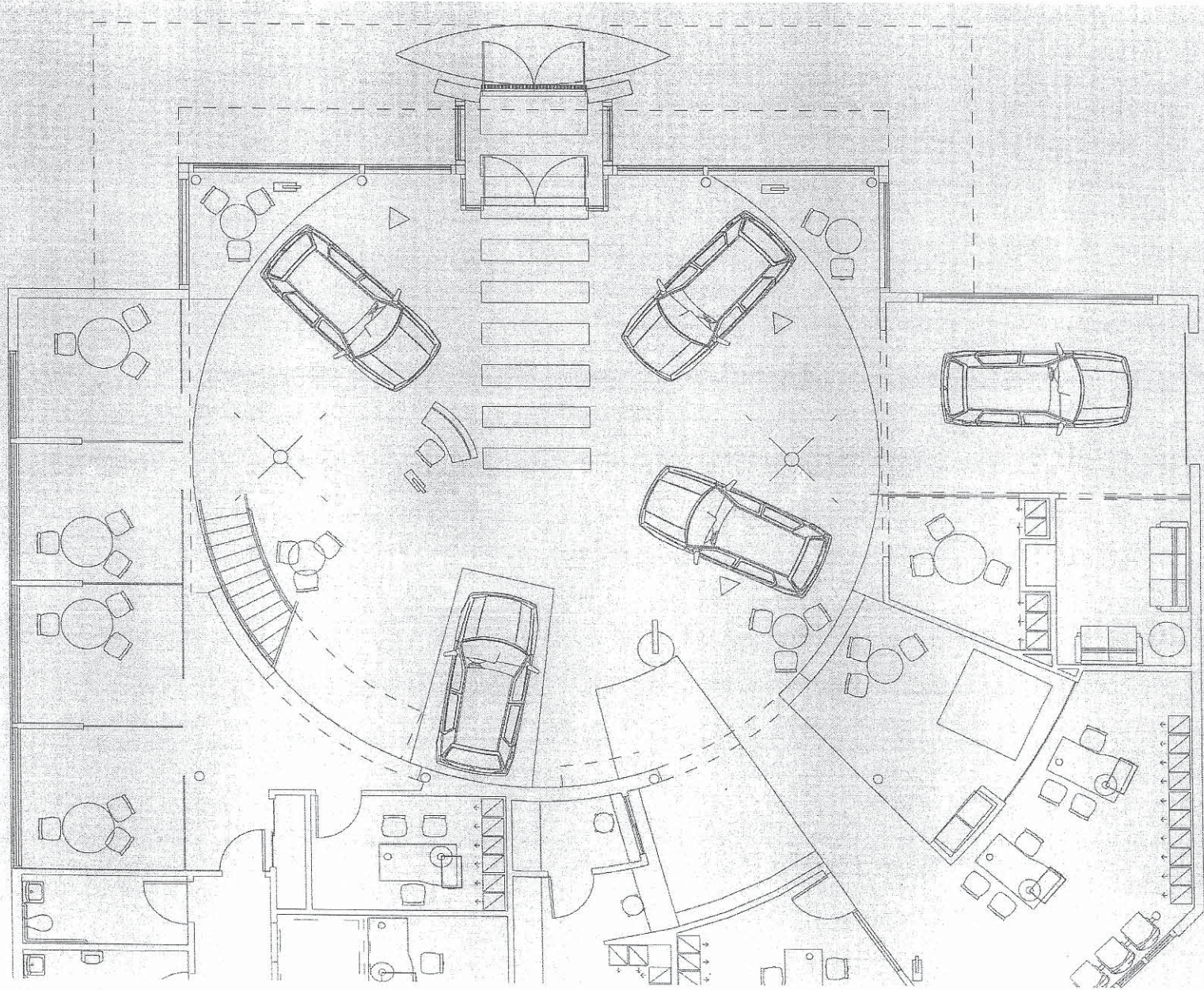
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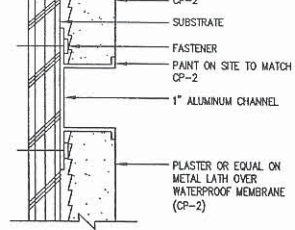
Gossett - Site Specific Interior Rendering



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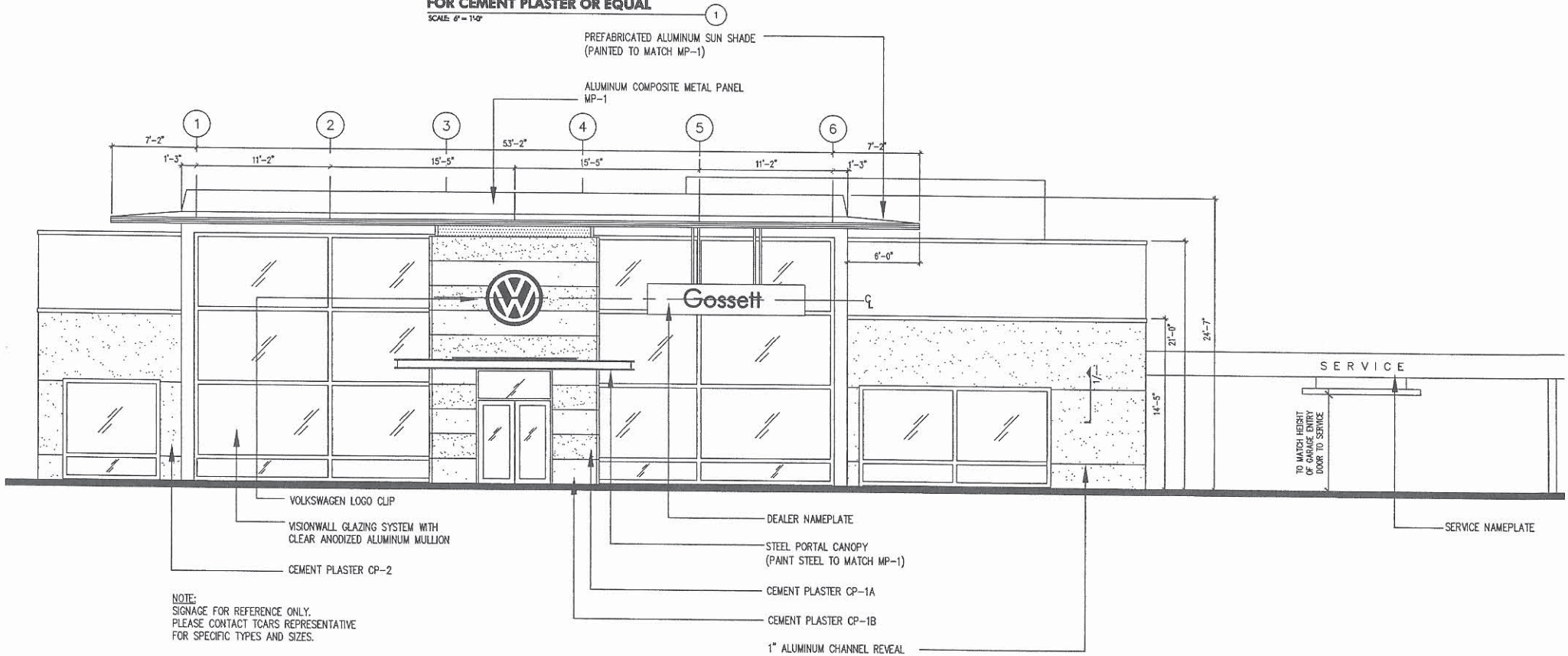
Architecture





**REVEAL @ BUILDING FACADE
FOR CEMENT PLASTER OR EQUAL**

SCALE: 6\"/>



NOTE:
SIGNAGE FOR REFERENCE ONLY.
PLEASE CONTACT TCARS REPRESENTATIVE
FOR SPECIFIC TYPES AND SIZES.



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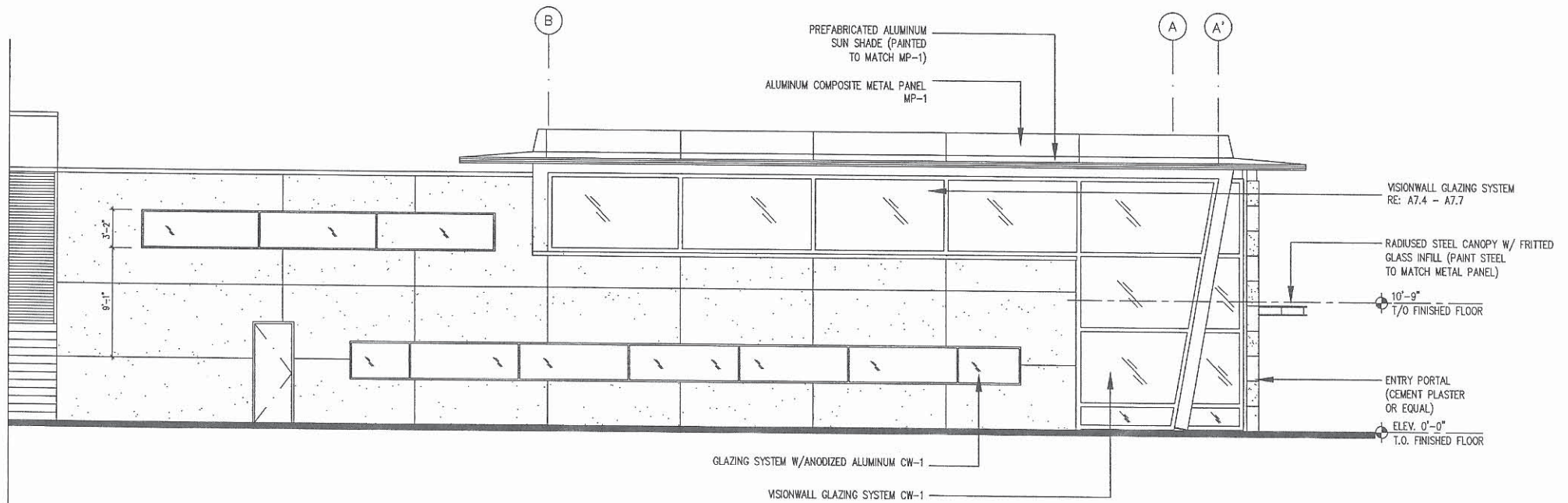
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	12/22/99			

Gossett

Description: Front Elevation

Scale: 1/8\"/>

A 2.1



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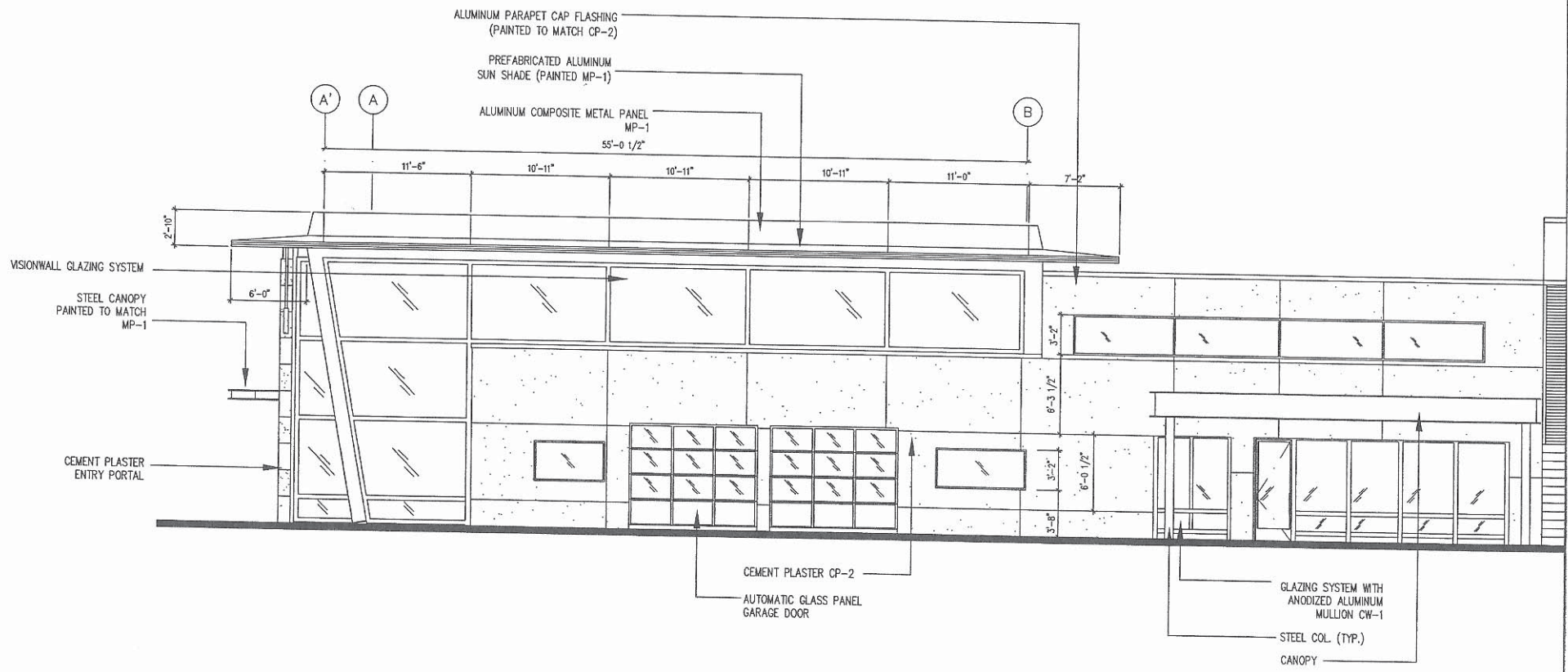
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	12/22/99			

Gossett

Description: Side Elevation

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

A 2.2



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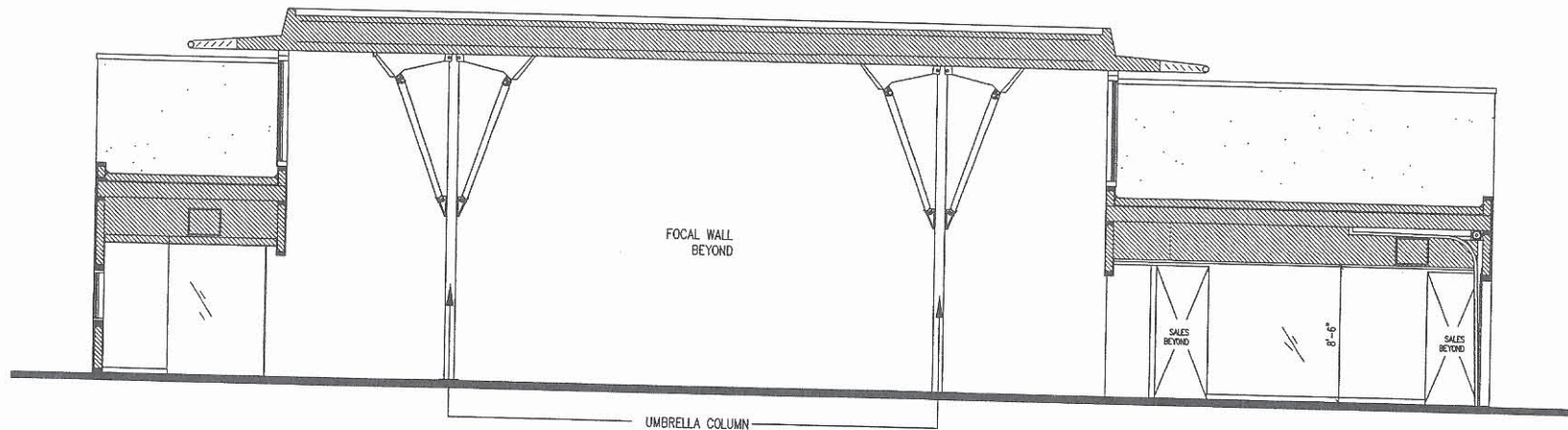
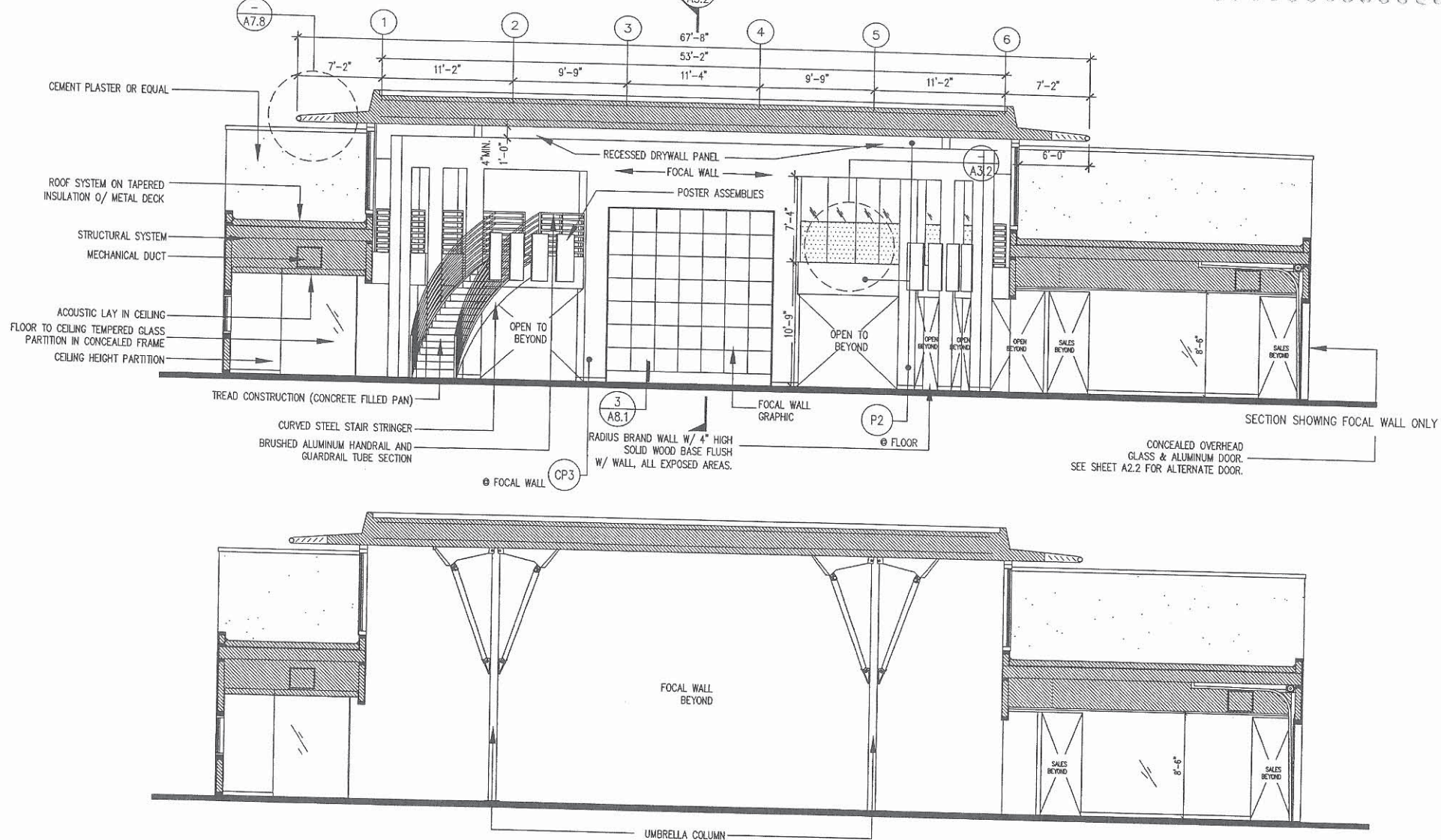
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	12/22/99			

Gossett

Description: Side Elevation

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

A 2.3



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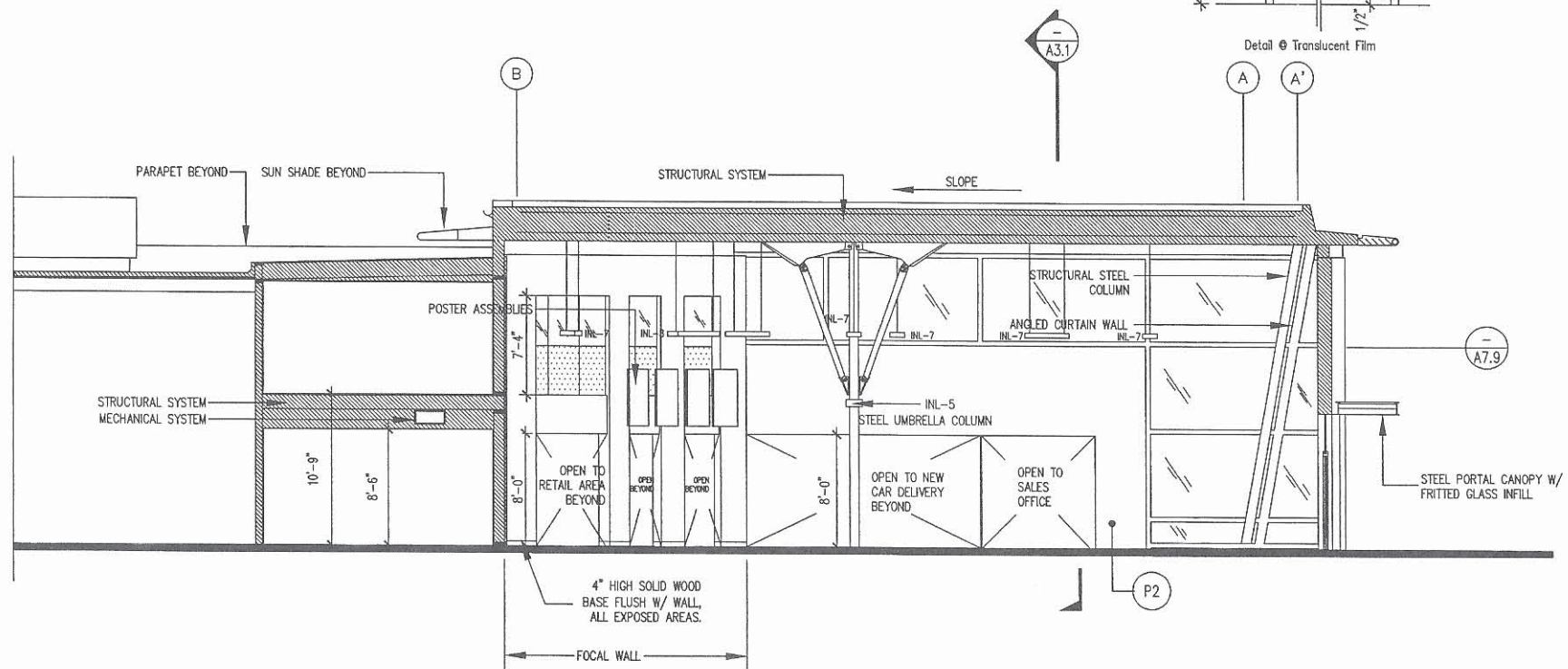
No	Date	Issues and Revisions	By	Check
	12/22/99			

Gossett

Description: Transverse Section

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

A 3.1



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




Gossett

Description: Longitudinal Section









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

A 3.2

INTERIOR LIGHTING LEGEND

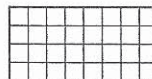
CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-0		(2) PHILIPS #32054-9 F32/TB/SP35	MERCURY #MM-232-RS-ELB-120/277	GENERAL PURPOSE TB STRIP, 2 LAMP, 4' LENGTH, WIREGUARD, ELEC. BALLAST	MOUNTED IN FIRE STAIR
INL-1		(2) PHILIPS #30043-4 PL-L 40W/35	ZUMTobel #RC-12X2 2/40BX	2'x2'LAY-IN FLUORESCENT FIXTURE, DROPPED PERF. SHIELDING W/ UPLIGHT COMPONENT, ELEC. BALLAST	THROUGHOUT DEALERSHIP EXCEPT SHOWROOM, SER. CORRIDOR, TOILET RM. AND RETAIL AREA
INL-2		PHILIPS #34744-3 F32/TB/AP/SP35	PRESCOLITE #CFT632-STF602-WT	6" DIA. COMPACT FLUORESCENT DOWNLIGHT, CLEAR ALZAK REFLECTOR, ELECTRONIC BALLAST	RECESSED THROUGHOUT DEALERSHIP
INL-3		USARO #F002158 50W/MR16/SP/15"	JUNO - TRACI2 #TL196-WHT-T5520 w/8' TRACK-WHITE	LOW VOLTAGE TRACK SYSTEM W/ MR-16 LAMPHOLDER, 8' TRACK, AND 300W REMOTE TRANSFORMER	SURFACE MOUNTED IN RETAIL AREA
INL-4		(1) PHILIPS #33382-3 MH250/T15	SPI ECHO SERIES #ECR-2503 CS PM	250w MH W/ REMOTE BALLAST; MOUNTED TO COLUMN	MOUNTED 12'-0" A.F.F. IN SHOWROOM
INL-5		(4) PHILIPS #33382-3 MH250/T15	SPI ECHO SERIES #ECR-2503 CS PM	MH QUAD CLUSTER W/ (4) 250w LAMPS, REMOTE BALLAST; MOUNTED TO COLUMN	MOUNTED TO COL. 12'-0" A.F.F. IN SHOWROOM
INL-6		(4) PHILIPS #33382-3 MH250/T15	SPI ECHO SERIES #ECR-2503 CS OC	MH QUAD CLUSTER W/ (4) 250w LAMPS, REMOTE BALLAST; PENDANT MOUNTED	PENDANT MOUNTED FROM CEILING 12'-0" A.F.F. IN SHOWROOM
INL-7		(3) PHILIPS #288738 CDW70/PAR38/FL/AK	CHARLES LOOMIS LIGHTING #HP31-PAR38MH-ST-PC	3 LAMP PAR38 METAL HALIDE PENDANT MOUNTED ACCENT LIGHT	PENDANT MOUNTED IN SHOWROOM AT 16'-0" A.F.F.
INL-8		(4) PHILIPS #288738 CDW70/PAR38/FL/AK	CHARLES LOOMIS LIGHTING #HP41-PAR38MH-ST-PC	4 LAMP PAR38 METAL HALIDE PENDANT MOUNTED ACCENT LIGHT	PENDANT MOUNTED IN SHOWROOM AT 16'-0" A.F.F.
INL-9		(4) USHIO # 50W/MR16/SP/15"	CHARLES LOOMIS LIGHTING #HP41-MRC16-ST-PC	4 LAMP MR-16 PENDANT MOUNTED ACCENT LIGHT	PENDANT MOUNTED IN SHOWROOM ALONG GRAPHICS WALL AT 16'-0" A.F.F.
INL-10		(2) PHILIPS #30043-4 PL-L 40W/35	MERCURY #NAE2202B0	2 LAMP, 2'x2' 9 CELL FLUORESCENT PARABOLIC	RECESSED IN COMPUTER ROOM, PARTS STORAGE AREA, AND BREAK ROOM
INL-11		(4) PHILIPS #232215 CDW70/PAR30/FL	CHARLES LOOMIS LIGHTING #RE22-PAR30MH-ST-PC	4 LAMP PAR30 METAL HALIDE RECESSED ACCENT LIGHT	RECESSED IN SHOWROOM CEILING - ONE-STORY SHOWROOMS ONLY

EXTERIOR LIGHTING LEGEND

EXL-1		PHILIPS #28655-9 M5400/NOR	LSI #CTL-C-24-S11-SBC-SINGLE-400W MH	ARM-MOUNTED RECTILINEAR CUTOFF LIGHTING, 15'-25' MOUNTING	PLACED ALONG BUYER'S PATHWAY
EXL-2		PHILIPS #28655-9 M5400/NOR	LSI #CTL-D-24-S22-SBC-0180-400W MH	SAME AS TYPE EXL-1 EXCEPT (2) FIXTURES PER POLE	PLACED ALONG PERIMETER OF PARKING LOT
EXL-3		PHILIPS #33382-3 MH250/T15	LSI #ORM-HF-250MH-F-SMT-JB-250MH FL	NARROW BEAM SPOTLIGHT POLE MOUNTED AT 15'-25' A.F.F.	MOUNTED ON PERIMETER POLE LIGHT TO ACCENT LOT TALKER
EXL-4		PHILIPS #23444-3 CDW100/C/U/M	KIM #AFL100MH-120-WM2-DB-P	WIDE BEAM FLOODLIGHT	MOUNTED AT CANOPY TO ACCENT VEHICLE - MOUNTED 1'-6" ABOVE GRADE TO ACCENT LOT TALKER
EXL-5		PHILIPS #22365-0 CDW35/PAR20/U/SP	KIM #G305-35MH	FLOODLIGHT W/ CLEAR TEMPERED GLASS, BALLAST BOX, GROUND MOUNTED & SURFACE MOUNTED	GROUND MOUNTED AT SECONDARY DIRECTIONAL SIGN AND SURFACE MOUNTED IN CANOPY TO ACCENT BANNER
EXL-6		PHILIPS #22365-0 CDW35/PAR20/U/SP	HYDREL #9420-A-MH35PAR20/120/NFL/34B/TILT10	WELL LIGHT W/ FIXED ASYMMETRICAL, CLEAR, FLUSH TEMPERED GLASS LENS W/10° TILT	MOUNTED IN GRADE 1'-6" FROM PORTAL - AT ENTRY TO ACCENT PORTAL
EXL-7		PHILIPS #23444-3 CDW100/C/U/M	G.E. #SINVB10M1HC	HIGH-ABUSE METAL HALIDE W/ CLEAR POLYCARBONATE LENS	MOUNTED ON THE UNDERSIDE OF SERVICE CANOPY
EXL-8		PHILIPS #22337-0 CDW70/16/630 (G12 BASE)	SPI #EDR 4203 WL GY422 70MH	MH W/ REMOTE BALLAST; WET LOCATION CONSTRUCTION	MOUNTED ON PORTAL CANOPY

To order lighting equipment, please contact Capital Light, the national distributor. Any questions may be directed to Trammell Crow Company.
CAPITOL LIGHT / NATIONAL ACCOUNTS
VOLKSWAGEN ACCOUNT REPRESENTATIVE: GINA LAUZER
PHONE: 800-965-1230 FAX: 860-647-6969

CEILING LEGEND



2X2 ACOUSTICAL LAY-IN CEILING SYSTEM.
SEE SHEETS M2.1 FOR TYPE & COLOR.



GYP. BD. SOFFIT OR CEILING.
SEE SHEETS M2.1 FOR TYPE & PAINT COLOR.



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	11/02/99			

Lighting Legend

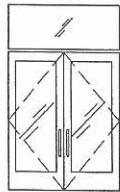
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Scale: N.A.

A 5.1

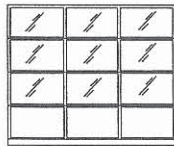
DOOR SCHEDULE

DOOR SCHEDULE																		
NO.	LOCATION	DOOR					HINGES	FRAME					HARDWARE				REMARKS	
		OPENING SIZE	TYPE	THICKNESS (INCHES)	MATERIAL	FINISH	PAIRS OF BUTT HINGES	TYPE	MATERIAL	HEAD	JAMB	SILL	FINISH	FIRE RESISTANCE RATING	LOCKSET KEYED	PASSAGE	CLOSER	
100	FRONT ENTRY	84 X 102	A	2"	GLASS/ALUM		1	1	ALUM.	1,2	5	3	ALUM.					
101	NEW CAR DELIVERY	120 X 96	B	2"	GLASS/ALUM			2	ALUM.				ALUM.					
102	SERVICE WRITE-UP	36 X 84	C	2"	GLASS/ALUM		2	3	ALUM.	2(SIM)	4,5	3	ALUM.					
103	INT. DOOR (TYP.)	36 X 84	D	2"	WOOD	PAINTED		4	METAL				PAINTED					PAINTED OR WHITE LAMINATE TO MATCH BENJAMIN MOORE 844 EGGSHELL

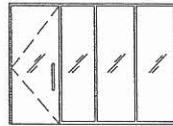
DOOR TYPES



A



B

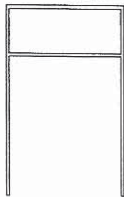


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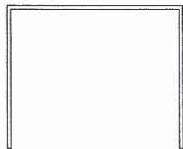


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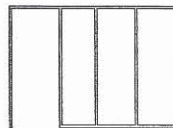
FRAME TYPES



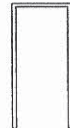
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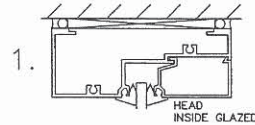
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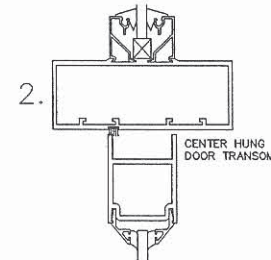
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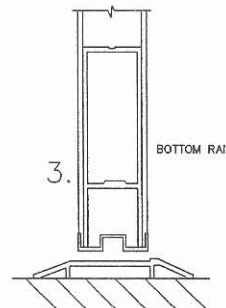
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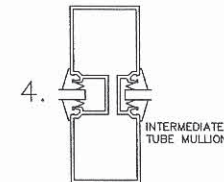
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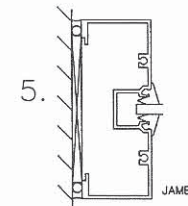
2.



3.



4.



5.



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No	Date	Issues and Revisions	By	Check
	08/20/99			

Door Schedule

Description: Exterior Door Schedule

Scale: None

A 5.2

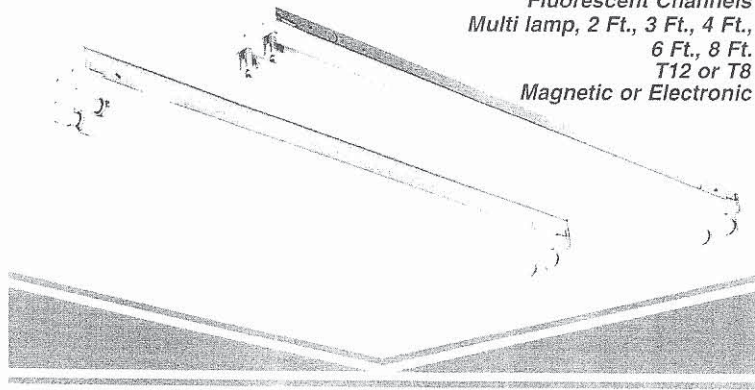
TYPE INL-O
MERCURY
MM-232-OCT-C-ELB
2 LAMP 4' STRIP T8 ELEC

Section D

MM-C, MM-P SERIES

Fluorescent Channels

Multi lamp, 2 Ft., 3 Ft., 4 Ft.,
6 Ft., 8 Ft.
T12 or T8
Magnetic or Electronic



DESCRIPTION:

Mercury Lighting's best selling channel series for all types of installations where an open lamp, non-shielded fluorescent fixture is required. Multiple lamping combinations, ballast choices, and options are available. Optional symmetrical, asymmetrical, and direct-light reflectors are available. A full series of specular aluminum or silver film type reflectors are available to be used with this series. (See appropriate catalog sheets for further information on these and other energy saving products.)

CONSTRUCTION:

The housing is die formed from heavy gauge steel, grade or optional 20GA cold rolled steel. Channel end plates snap into place permanently to close off the housing or can be turned on their sides to serve as joiners forming an uninterrupted wireway when running multiple fixtures in a row. Socket plates lock into the housing in a positive manner. Optional one-piece combination pivot style channel end and socket plate is permanently riveted into the housing. Sockets come pre-assembled and wired on this pivot end, needing only a quick pull out of the housing to permanently lock it into its proper position. Standard on all 20GA units. Wireway covers snap onto the housing and are easily removed without tools. Optional cam lock covers available which attach by way of two quarter turn cam locks. All optional reflectors attach with two cam locks. All 6ft. and 8ft. fixtures use two covers.

ELECTRICAL:

Check ordering data for specific lamp and ballast combinations. All ballasts are magnetic type for either T12 or T8 lamps. Electronic ballasts are available for selected T12 lamps and all T8 lamps and must be specified in catalog number. Electronic ballasts are full electronic type, less than 20% harmonics, and are normal light output. All special ballast criteria such as less than 10% harmonics, high light, or low light output should be specified. Tandem wiring and master/slave wiring is available. Voltage must be specified 120V or 277V or other. Sufficient knockouts are provided for all connections and through wiring. All fixtures meet U.L. standards and bear their label. Union made and labeled.

MOUNTING:

Suitable for individual or continuous run installations, surface mounted or suspended on stems, rods, or chain. Chain lances are provided on the sides of the housing 3-1/2" in from each end. Optional hangers available.

FINISH:

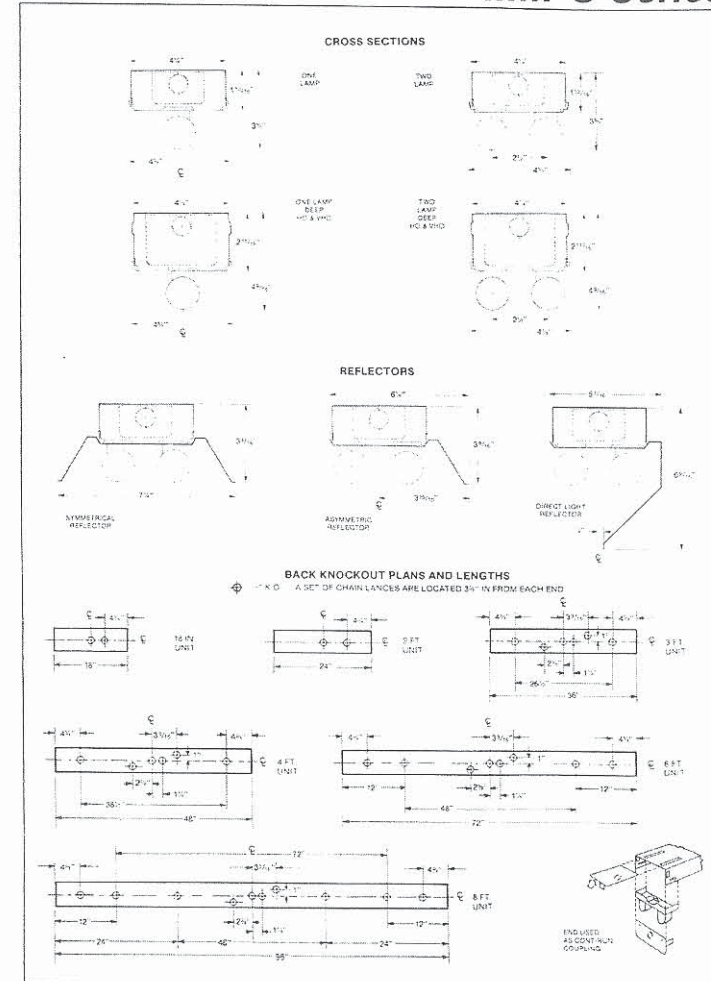
Standard finish is a white enamel baked on at 350°F after a multi-stage cleansing and phosphate coating for maximum paint adherence and rust inhibition. Will provide a reflectivity of 89%.

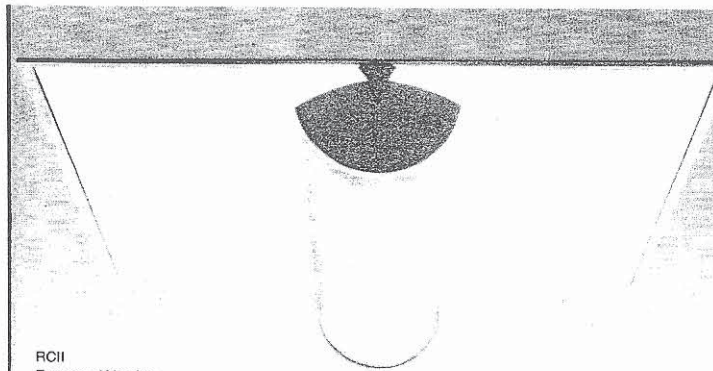
MERCURY
LIGHTING PRODUCTS COMPANY, INC.

20 AUDREY PLACE • FAIRFIELD, NJ 07004 • TEL: 201-244-9444 • FAX: 201-244-9522

Dimensional Data

MM-C Series





RCII **Recessed Version**

Available in 1' x 1', 2' x 2' and 1' x 4' sizes with many lamp combinations (see ordering information for all configurations). An ideal replacement and/or substitution to ordinary recessed lighting solutions.

Housing

The housing, only 3" in depth, is made of 20 gauge cold rolled steel. The corners are welded and ground prior to finishing to present a high quality construction. The finish is an electrostatically applied white powder coating cured at 400° F.

Reflector

The two piece reflector is profiled to a precision curve and finished with a special matte white paint that obscures the reflected lamp image.

Lamp Compartment

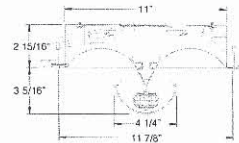
The reflector "basket" consists of a white perforated metal backed with a white opal acrylic lens inlay. The lamp is masked from direct view while the lamp compartment has a self luminance that matches the reflector background.

Electrical and Labels

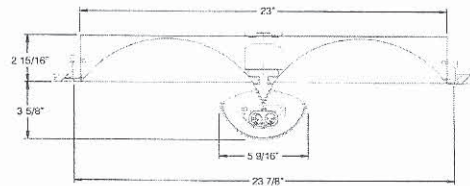
The RCII is supplied with energy saving or electronic ballasts. The RCII is UL listed, IBEW labeled and meets all national and local electrical codes.

Installation Options

The RCII can be installed in most grid (lay-in), concealed spline and slot grid ceiling systems. Adjustable brackets for installation into spline and slot grid ceilings are provided. RCII 1'x4' using two 40 watt compact fluorescent lamps can be installed in continuous runs, further enhancing RCII's functionality and flexibility. When installed in a wall, RCII meets current ADA requirements for wall mounted lighting fixtures.



RCII 1' X 1'



RCII 2' X 2'

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-1		(2) PHILIPS #30043-4 PL-L 40W/55	ZUMTobel-STAFF #RC-112X2 2/40BX	2'x2'LAY-IN FLUORESCENT FIXTURE, DROPPED PERF. SHIELDING W/ UPLIGHT COMPONENT, ELEC. BALLAST	THROUGHOUT DEALERSHIP EXCEPT SHOWROOM, SERVICE CORRIDOR, TOILET RM., AND RETAIL AREA



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check

Interior Lighting

Description: Cut Sheets
Scale: N/A

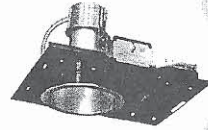
A 6.2

6" Vertical Open and Wall Wash

Features

- Same housing accommodates 26W, 32W, and 42W triple tube lamps
- Intelect™ electronic ballast standard for optimum operating performance
- Irrescence suppressed reflectors
- Self trim (ST) reflectors standard
- Baffled units standard with painted white self-trim (WT)
- J-Box is accessible from below ceiling
- Specular clear, champagne gold, pewter Alzak reflector, or clear Alzak reflector with lower black or white baffle, or black cone
- Diecast aluminum heatsink
- Same housing accommodates downlight and wall wash downlight reflectors
- Optional dimming to 5%
- UL, CSA listed for damp locations and through wiring (Note: Central factory for wet location)

One 26W, 32W, 42W
Triple Tube Lamp



COMPACT FLUORESCENT

Ordering Information Example: CFT632EB-STF602 120V

Intelect Electronic Ballast (Uses 4-pin lamps)

	One 26W Triple	One 32W Triple	One 42W Triple
Clear Alzak	CFT632EB-STF602	CFT632EB-STF602	CFT632EB-STF602
Champagne Gold Alzak	CFT632EB-STF603	CFT632EB-STF603	CFT632EB-STF603
Pewter Alzak	CFT632EB-STF604	CFT632EB-STF604	CFT632EB-STF604
Black Baffle	CFT632EB-WTF605	CFT632EB-WTF605	CFT632EB-WTF605
White Baffle	CFT632EB-WTF606	CFT632EB-WTF606	CFT632EB-WTF606
Black Cone	CFT632EB-WTF607	CFT632EB-WTF607	CFT632EB-WTF607

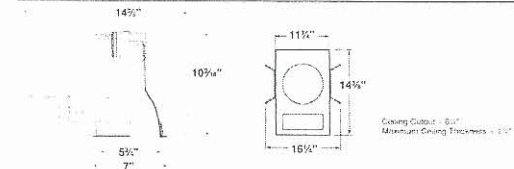
Voltage: Multivolt 120V, 205V, 240V, 277V. Canada: Specify 120V or 247V. 26W, 32W, or 42W
End of Life Protection: Suffix "EOL" and specify 120V or 277V.

Wall Wash: Suffix "WW." Example: CFT632EB-STF602WW. Not available with baffle or cone.

Options Example: CFT632EBDM-WTF602 120V EM

B-24	Set of two (2) 24" bar hangers for T-Bar ceilings	L	Regressed acrylic lens
CP	Chicago Plenum approved	RIF1	Radio interference filter
DM	Dimming, change EB to EBDM	/SCA	Sloped ceiling adaptor (add degree of slope and wet or dry ceiling)
EM	Emergency pack with remote indicator light and switch (26W and 32W only)	SL	Regressed acrylic prismatic spread lens
FSDFA	Fuse kit installed at factory	SS	Semi-specular reflector
FSDFI	Fuse kit for field installation	WT	Painted white self-trim substitute "ST" with "WT"
		WW	Wall wash

Suffix catalog number with desired option.



Presc-lite

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-2	○	PHILIPS #34744-3 F32T8X/4P/SP35	PRESCOLITE #CFT632-STF602-WT	6" DIA. COMPACT FLUORESCENT DOWNLIGHT, CLEAR ALZAK REFLECTOR, 120/277 VOLT, ELEC. BALLAST	RECESSED THROUGHOUT DEALERSHIP



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No	Date	Issues and Revisions	By	Check

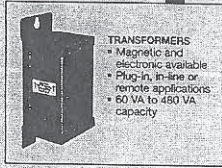
Interior Lighting

Description: Cut Sheets
Scale: N.A.

A 6.3

SYSTEM FEATURES

TRAC 12 is a versatile modular Trac system designed to be simple to use and easy to install. A complete selection of transformers, electrical feeds, connectors and Trac sections can be configured for any lighting application up to 240 watts.



TRANSFORMERS
• Magnetic and electronic available
• Plug-in, in-line or remote applications
• 60 VA to 480 VA capacity

SURFACE TRAC
• Low profile...only 3/8" deep x 3/4" wide
• Polycarbonate extrusion for maximum strength
• No. 12 solid copper conductors
• 20 amp capacity/740 watts
• Trac section supplied with terminal block end feed/connector, cover and dead end
• For straight runs, no additional connectors needed



SURFACE TRAC
Each Trac section contains two solid copper 12 AWG conductors and is supplied with an end-feed connector, dead end and mounting hardware.



TL2	TL4	TL6	TL8
2' Trac Section—actual length including end feed and dead end. WH, BL	4' Trac Section—actual length including end feed and dead end. WH, BL	6' Trac Section—actual length including end feed and dead end. WH, BL	8' Trac Section—actual length including end feed and dead end. WH, BL

Note: When joining Trac sections, overall length is 1/16" shorter than individual Trac section lengths.

ELECTRICAL FEEDS



TL34 Conduit Feed.
For surface wiring or top feed using 1/2" electrical connectors.
WH, BL



TL21 Outlet Box/T-Bar Ceiling Canopy.
For mounting over outlet box or in T-bar ceilings. Includes mounting plate and cover with breakouts to feed up to 4 Trac sections. For T-bar ceilings order one TL373 WH, BL.

JOINER CONNECTORS



TL24 Right Angle Joiner. Joins two Trac sections to make a 90° corner.
WH, BL



TL20 Adjustable Joiner. Electrically joins two Trac sections at variable angles.
WH, BL



TL38 End-Feed Connector/Dead End. For use with field cutoff Trac sections.
WH, BL

MOUNTING ACCESSORIES

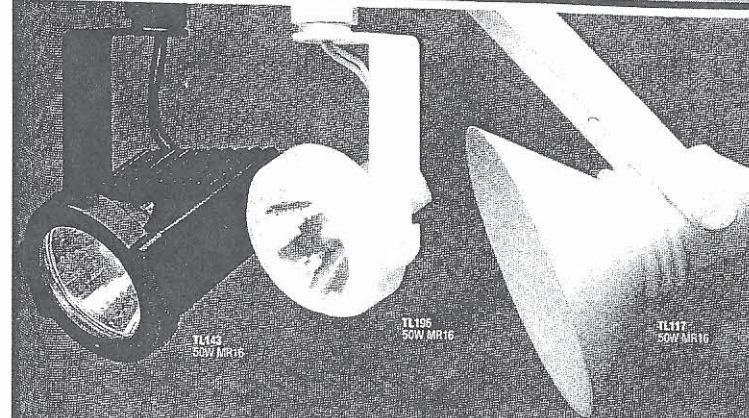


TL37 T-Bar Attachment Clip. To attach Trac to inverted T-Bar ceiling, use one per foot of Trac.



TL4000 Extruded Aluminum Fascia. Conceals Trac and lampholders. 6' length. Field cut size to fit required spacing. 1 3/8" x 1 3/8".
WH, BL

Finish Code
WH—White
BL—Black



MR16 HALOGEN SPOTLIGHTS

Cal. No.	Description	Lamp Data	Dimensions	Finishes	Accessories
TL116	Halogen Spotlight	20-50W MR16		WH, BL, PB	T74BL Black Banddown T558BL Black Eyebrow T558BL Black Snoot T551-5 Color Filters/Lenses T557 Prismatic Spread Lens T559 Linear Spread Lens T550B-16 Dichroic Lenses T5520 Diffuse Spread Lens
TL143	Notch Back	20-50W MR16		WH, BL	T551-5 Color Filters/Lenses T557 Prismatic Spread Lens T559 Linear Spread Lens T550B-16 Dichroic Lenses T5520 Diffuse Spread Lens
TL195	Gimbal Ring	20-50W MR16		WH, BL	T551-5 Color Filters/Lenses T557 Prismatic Spread Lens T559 Linear Spread Lens T550B-16 Dichroic Lenses T5520 Diffuse Spread Lens
TL117	Flyback	20-50W MR16		WH, BL, PB	T551-5 Color Filters/Lenses T557 Prismatic Spread Lens T559 Linear Spread Lens T550B-16 Dichroic Lenses T5520 Diffuse Spread Lens

See page 10 for fixture ordering information

Finish Code
WH—White
BL—Black
PB—Polished Brass

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
NL-3		USHIO #1002168 50W/MR16/SP/15'	JUNO-TRAC12 #TL195-WHT-T5520 w/6' TRACK-WHITE	LOW VOLTAGE TRACK SYSTEM WITH MR16 LAMP HOLDER, 8' TRACK, AND REMOTE 300W TRANSFORMER	SURFACE MOUNTED IN RETAIL AREA



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No	Date	Issues and Revisions	By	Check

Interior Lighting

Description: Cut Sheets
Scale: N/A

A 6.4

ECHO 2 ■ ECR / EDR / EXR - Remote
 Nine-inch diameter housings are available in standard solid
 or perforated steel and new extruded aluminum in two lengths.
 Lamping options range up to 400 watt metal halide or high
 pressure sodium, or a combination of the two.

6 Dual-lamped Echos provide uniform illumination free from glare and shadows, reducing eyestrain



ECR 2403 120 BFT

Housing Construction

- ECR - perforated, 16 gauge roll formed steel
- EDR - solid, 18 gauge roll formed steel
- EXR - extruded .156 aluminum
- Die cast aluminum end caps with rotation stops
- Flush mounted fasteners
- UL Listed, CSA Certified damp location
- Decorative Shapes™ on pp. 24 - 27

Mounting

- Yoke bracket die formed, 14 gauge steel
- Field adjustable housing
- Surface mount over a 4" box
- Cover plate conceals wiring and mounting hardware

Reflector

- 68.9% - 71% efficient / asymmetric
- Maximum candlepower between 25° and 45° above horizontal
- Segmented, 83% reflective, specular clear hammer tone aluminum
- Impact and heat resistant, tempered glass lens

Ballast

- ECB / EDR / EXR - Remote
- Magnetic, 120 / 277 volt operation
- Encased and potted
- CWA-HPF design
- Thermally protected
- 347 and other voltages / frequencies available for international market †
- † Additional information on page 37

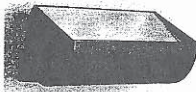
Painted Finish

- Textured black (BFT)
- Outdoor finishes: Textured black (BFT), White (WH) and Bronze (BZ)
- All metal surfaces first thoroughly cleaned and coated with thermoset polyester paint
- Consult Powder Coat Color Finishes catalog page for additional standard painted finishes

MRI Construction - (MRI)

- ECR / EDR - perforated or solid, roll formed aluminum housing
- Die cast aluminum end caps with rotation stops
- Yoke bracket die formed aluminum

- Wet Location Construction - (WL)**
- EXR - extruded aluminum housing only, UL Listed, CSA Certified wet location
 - Die cast aluminum end caps with rotation stops
 - Tamper-resistant fasteners
 - Aluminum lens frame with gasketing
 - Yoke bracket die formed, 14 gauge stainless steel
 - Flexible weatherproof power cord with watertight fittings
 - Consult factory for ground mount
 - Remote ballast kit not wet location listed; consult factory



ECR 2403 120 BFT

LENGTH	FIXTURE	NUMBER	LAMPING	PHOTOMETRY	VOLTAGE	FINISH	ACCESSORIES pp. 18 - 20
16"	• ECR • EDR • EXR	• 2403 • 2503 • 2603 • 2053 • 2063 • 2743	(1) 175 ED17 Med MH (1) 250 T15 Mogul MH (1) 400 T15 Mogul MH (1) 250 E18 Mogul HPS (1) 400 E18 Mogul HPS † (2) 250 T10 Med QTZ	E436-1 E436-1 E436-1 E436-3 E436-3 E436-3	• 120 / 277 • 120 only	• BFT	• CS - Cutoff shield, consult for WL • CM - Ceiling mount ** • PM - Pier mount ** • DC - Double cluster ** • TC - Triple cluster ** • QC - Quad cluster ** • SM - Stem mount ** * Specify stem length on cluster and stem mount fixtures: SM 24
16"	• ECR	• 2723	(1) 900 HIR T3 RSC QTZ *	E436-7	• 240 or 277	• BFT	• HM - Hub mount **
27.5"	• ECR • EDR • EXR	• 5503 • 5603 • 5653 • 5863 • 5723	(2) 250 T15 Mogul MH (2) 400 T15 Mogul MH 400 T15 MH / 250 E18 HPS 400 T15 MH / 400 E18 HPS † (1) 900 HIR T3 RSC QTZ **	E436-2 E436-2 E436-5 E436-5 E436-5	• 120 / 277 • 240 or 277	• BFT	• WL - Wet location construction, EXR only † • RPI - Remote ballast support tray ** † • MRI - Non-magnetic fixture † • F - Fuse option † • O - Stand-by lighting option ** † ** Not available for WL fixture † Technical information, page 37
27.5"	• ECR	• 5733 • 5743	(2) 350 HIR T3 RSC QTZ ** (1) 1000 T6 RSC QTZ ** *		• 120 only		

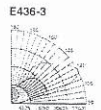
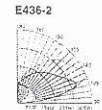
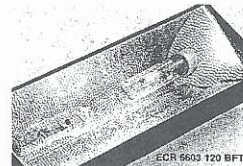
† 400 HPS not available with standard encased and potted ballast; please see page 37 for additional information
 * Indirect orientation only



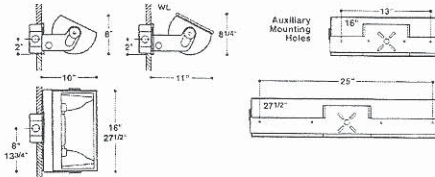
EDR 2603 120 BFT CS BFT

SAMPLE: ECR 5503 120 BFT O

PHOTOMETRICS

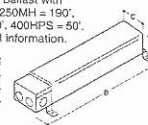


DIMENSIONS



Standard Remote Ballast Kit
 Maximum Distance Lamp to Ballast with
 No. 12 Wire: 175MH = 270', 250MH = 190',
 400MH = 130', 250 HPS = 10', 400HPS = 50'.
 Consult factory for additional information.

SIZE	A	B	C
175 MH	3"	18 1/16"	33 1/16"
250 MH	3"	18 7/16"	33 1/16"
400 MH	3"	20 1/16"	33 1/16"
250 HPS	3"	20 1/16"	33 1/16"
400 HPS Ballast Box Assembly †			



CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-4		(1) PHILIPS #33382-3 MH250/T15	SPI ECHO SERIES JECR-2503 CS PM	MH W/ REMOTE BALLASTS; MOUNTED TO COLUMN	MOUNTED TO COLUMN 12'-0" A.F.F. IN SHOWROOM
INL-5		(4) PHILIPS #33382-3 MH250/T15	SPI ECHO SERIES JECR-2503 CS QC SPECIAL	MH QUAD CLUSTER W/ REMOTE BALLASTS; MOUNTED TO COLUMN	MOUNTED TO COLUMN 12'-0" A.F.F. IN SHOWROOM
INL-6		(4) PHILIPS #33382-3 MH250/T15	SPI ECHO SERIES JECR-2503 CS QC	MH QUAD CLUSTER W/ 250w LAMPS, REMOTE BALLASTS; PENDANT MOUNTED	PENDANT MOUNTED FROM CEILING IN SHOWROOM; 12'-0" A.F.F.



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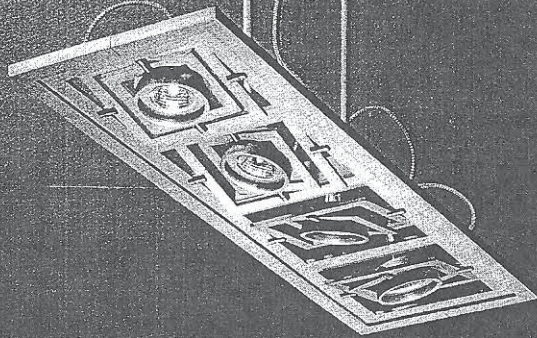
No	Date	Issues and Revisions	By	Check

Interior Lighting

Description: Cut Sheets
 Scale: N.A.

A 6.5

the form is elegant



Horizontal Pendant

Add elegant simplicity to accent lighting applications on tables, counters or floors. Position Horizontal Pendant Lightframes prominently to provide drama and uniqueness to your installation. Individual lamps are adjustable in pan and tilt, and can be locked into position as desired.

Horizontal Pendant Lightframes are available in two sizes: Small (8" x 8"), for use with MR16, PAR20, ALR and AR70 lamps; and Large (12.5" x 12.5"), for use with AR111, PAR30, PAR36 and PAR38 lamps. Choose incandescent, low voltage or metal halide lamps.

Cable gops allow for variable height adjustments. Ballasts or transformers, when required, are concealed within the ceiling canopy.

Lightframes are available with or without border accent frames. Select from a wide range of standard finishes and accessories to create a unique lighting system specifically tailored to your project.

Horizontal Pendant configurations range from two cells wide by one cell high (2x1) to three cells wide by three cells high (3x3). Lightframes are UL listed and arrive ready to install.



CHARLES LOOMIS, INC.

11828 NE 112th Street
Kirkland, WA 98033
Phone: 425-823-4560, 1-800-755-0471
Fax: 425-823-8654

LIGHTFRAMES SPECIFICATION FORM

Quantity	Model	Version	Config.	Lamp Type	Wattage	Transformer/ Ballast	Mounting	Finish	Accessories
Example: 17	LF	AS	11	AR70	50	CA		PC	
Example: 1	LF	HP	41	MRC16	50	CA	48	PC/TT	BF
Example: 35	LF	TM	12	PAR38	150	NR	NK	MS	CU
Order: _____									
LF Lightframes	HP Horizontal Pendant	11	1w x 1h	Small		CA	HP_VP only	MS - Mill silver - standard	BF - Border Accent Frame
		12	1w x 2h	MRC16*	20, 50	in Canopy (Electronic)	48" suspension	PC - Powder Coat	Mounted on HP-41 (A.6.1)
		21	2w x 1h	PAR20	50		72" suspension	TT - Two Tone	CF - Color Filter
		13	1w x 3h	PAR20MH**	39	RE	96" suspension		CU - Cube Cell Louvers
		31	3w x 1h	AR70*	20, 50	Remote (Magnetic max 15')			BD - Barn Doors
	VP Vertical Pendant	14	1w x 4h	ALR56*	15, 50	NR			MP - Monopoint Mount
		41	4w x 1h						
		15	1w x 5h	Large		NR			
	VS Vertical Sconce	51	5w x 1h	AR111*	50	None Required	TM only		
		16	1w x 6h	PAR30	75		NK - NOKIA		
		61	6w x 1h	PAR30MH**	39, 70		LI - Lightolier		
TM Track Mount		22	2w x 2h	PAR36*	50				
		23	2w x 3h	PAR38	90, 150, 250				
		32	3w x 2h	PAR38MH**	90, 100				

See Brochure
for available
configurations

* Transformer Required
** Ballast Required

There are limitations on all
lamp/ballast combinations -
consult factory.

Other track
adapters available
upon request.

10/26/98
LFSPEC.DOC

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-7	□□□□	(3) PHILIPS #288738 CDM70/PAR38/FL/4K	CHARLES LOOMIS LIGHTING #HP31-PAR38MH	3 LAMP PAR38 METAL HALIDE PENDANT MOUNTED ACCENT LIGHT	PENDANT MOUNTED IN SHOWROOM AT 16'-0" A.F.F.
INL-8	□□□□□	(4) PHILIPS #288738 CDM70/PAR38/FL/4K	CHARLES LOOMIS LIGHTING #HP41-PAR38MH	4 LAMP PAR38 METAL HALIDE PENDANT MOUNTED ACCENT LIGHT	PENDANT MOUNTED IN SHOWROOM AT 16'-0" A.F.F.



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No	Date	Issues and Revisions	By	Check

Interior Lighting

Description: Cut Sheets

Scale: N.A.

A 6.6

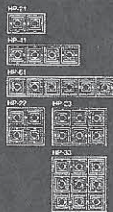
Add elegant simplicity to accent lighting applications on tables, counters or floors. Position Horizontal Pendant Lightframes prominently to provide drama and uniqueness to your installations. Individual lamps are adjustable in pan and tilt, and can be locked into position as desired.

Horizontal Pendant Lightframes are available in two sizes: Small (8" x 8"), for use with MR16, PAR20, ALR and AR70 lamps; and Large (12.5" x 12.5"), for use with ARI11, PAR30, PAR36 and PAR38 lamps. Choose incandescent, low voltage or metal halide lamps.

Cable grips allow for variable height adjustments. Ballasts or transformers, when required, are concealed within the ceiling canopy.

Lightframes are available with or without border accent frames. Select from a wide range of standard finishes and accessories to create a unique lighting system specifically tailored to your project.

Horizontal Pendant configurations range from two cells wide by one cell high (2x1) six cells wide by one cell high (6x1) to three cells wide by three cells high (3x3). Lightframes are UL listed and arrive ready to install.



11828 NE 112th Street
Kirkland, WA 98033
Phone: 425-823-4560, 1-800-755-0471
Fax: 425-823-8654

	Quantity	Model	Version	Config	Lamp Type	Wattage	Transformer/ Ballast	Mounting	Finish	Accessories
Order:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Example:	17	LF	AS	11	AR70	50	CA		PC	
Example:	1	LF	HP	41	MRC16	50	CA	48	PC/TT	BF
Example:	35	LF	TM	12	PAR38	150	CA	NK	MS	CU
Light fixtures	Horizontal Pendant	VP	HP	11 1/4 x 1 1/8	Small MRC16*	20, 50	CA In Canopy (Electronic)	48" suspension	MS - Mill silver - standard	BF - Border Antenna Frame Mounted on HP-1 & 2
			12	2w x 1 1/8	PAR20	50		72" suspension	PC - Pewter Cast	CF - Color Filter
			VP	13 1/4 x 3/8	PAR20MH**	39	RE	56" suspension	TT - Tus Teak	CU - Cube Coil Locomo
			Vertical Pucklet	31 3/4 x 1/8	AR70*	20, 50	Remo (Magnetic mast 15")			BD - Burn Doors
			AS	41 8/16 x 1 1/8	ALR56*	13, 50	NR			MP - Mountpoint Mount
			AS	15 1/4 x 5/8						
	Vertical downcast	VS	AS	51 2w x 1 1/8	AR111*	50	None Required	TM only		
			VS	16 1w x 6/8	PAR30	75		NK - NOKIA		
			TM	61 6w x 1 1/8	PAR30MH**	39, 70		1-L - Lightshelf		
			TM	23 2w x 2 1/8	PAR36*	50				
			TM	23 2w x 3/8	PAR38*	90, 150, 250				
			TM	33 3w x 2 1/8	PAR38MH**	70, 100				


See Brochure
for available
configurations

* Transformer Required
** Ballast Required

There are limitations on MFL lamp/dallas combinations - consult factory

Other truck
adapters available
upon request.

10/26/98
LFSPEC.DOC

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-9		(4) USHIO #1002168 50W/MR16/SP/15'	CHARLES LOOMIS LIGHTING #HP41-MRC16	4 LAMP MR-16 PENDANT MOUNTED ACCENT LIGHT	PENDANT MOUNTED IN SHOWROOM ALONG GRAPHICS WALL AT 16'-0" A.F.F.



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check

Interior Lighting

Description:	Cut Sheets
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Scale: NA

A 6.7

Series 54

High Performance 2x2 Parabolic Troffers

DESCRIPTION

A high performance 2x2 recessed deep cell parabolic troffer designed for maximum fixture efficiency while maintaining high visual comfort probability ratios. High efficiencies and VCP's are created by the unique single parabolic curvature around each lamp or group of lamps combining with the precisely matched contours of the parabolic lower assembly. This uninterrupted transition between the para-contoured fixture housing and the lower assembly creates a totally superior parabolic fixture. Various lamp quantities along with multiple parabolic cell configurations and ballast choices are available to meet all lighting specifications. Standard fixtures are static, air supply and heat removal functions are available as separate options or in combination with each other. A complete line of computer designed optical reflectors in either aluminum or silver are available to further enhance the performance of this Series. See Series 54-ART5RT.

CONSTRUCTION

Completely die-formed from heavy gauge or optional 20 gauge, cold rolled steel. Ends and housing parts are securely riveted into place. Wireway covers are snap-in type requiring no tools or fasteners for attachment or removal. Louvers are die formed from semi-specular anodized aluminum with an anodic oxide coating. Low index-coat finish is standard. Full specular aluminum, champagne gold, and painted white finishes are optional. Accurate parabolic cells are held in place with interlocking construction and feature true milled corners. Die-formed steel hinges allow the louver to swing down from either side of the fixture. Latches are flange-up, actuated, coin action for positive locking. Black reveal surrounding the entire lower hides all of the hardware including the integral mechanical light seal. An easy peel-off protective mylar film is provided to protect the fixture and louver from construction dirt.

ELECTRICAL

Check ordering data for specific lamp combinations. All electrical components are U.L. approved. All T12 rapid start, all T8 Octron, and all T15 Bix ballasts are magnetic type, class "P", H.P.F., energy saving. Optional ballasts include: electronic types, hybrid types, magnetic and electronic dimming types, emergency battery packs, and other commercially available products. Special wiring, tandem wiring, and master-slave wiring is available. Standard voltage is 120V 60HZ AC, or as specified. Sufficient knockouts are provided on the back and ends. All fixtures are supplied with a quick wiring access plate on the back. Factory installed lamps, fixture ships, and modular wiring systems available as specified. All fixtures bear L.B.E.W. and U.L. labels.

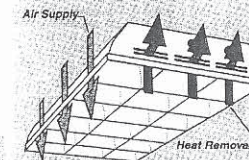
MOUNTING

F units are lay-in type for recessed installation in exposed grid type acoustical ceilings, either 1" or 5/16" grid. Four (4) auxiliary fixture suspension points are provided on the ends. Earthquake clips are recommended but not needed or included. Check local electrical and building codes. May be installed individually, in continuous runs, or side-by-side. C units are flange trim type for recessed installation in either concealed spline or sheet rock ceilings. Four (4) swing-out wing type leveling lugs are provided which are adjustable from beneath the fixture. Flanges are overlapping type with removable end flanges for end-to-end mounting.

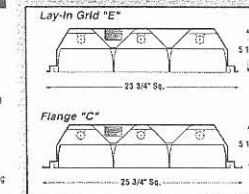
FINISH

All housing parts are finished with a baked-on white enamel after a multi-stage cleansing and phosphate coating for maximum paint adherence and rust inhibition. Will provide a reflectivity of 87%.

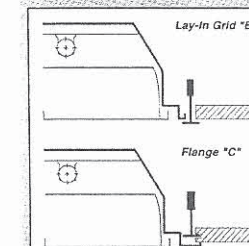
Optional Air Functions



Dimensional Data



Mounting Details



Ordering Data

EX: 54 E - AH - 2 32 - OCT - U - 9 W - ELB - 120V - 20GA

Series	Option Air Function	No. of Lamps	Wattage	Lamp Type	Option Louver Finish	Ballast Type	Voltage	Misc.
54	-E Lay-in	-2 Lamps	-40 40W TTS	-BX BIAx TTS	-W White	-ELB Electronic TTS	-120V 120 Volt	-EMPK Emergency Pack
	-C Flange	-3 Lamps			-G Champagne Gold	-	-277V 277 Volt	-20GA 20 Gauge Construction
	-AH Combination				-FS Felt Specular	-		-L Lamps as Specified Indicate Order EX: L741
	-				-	-		-FLX 6 Ft. Flex
	-				-	-		-MS Master/Slave Wiring as Specified



CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-10		(2) PHILIPS #30043-4 PL-L 40W/35	MERCURY #NAE220280	2 LAMP FLUORESCENT 2'x2' 9" CELL PARABOLIC	RECESSED IN COMPUTER ROOM, PARTS STORAGE, AND BREAK ROOM



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

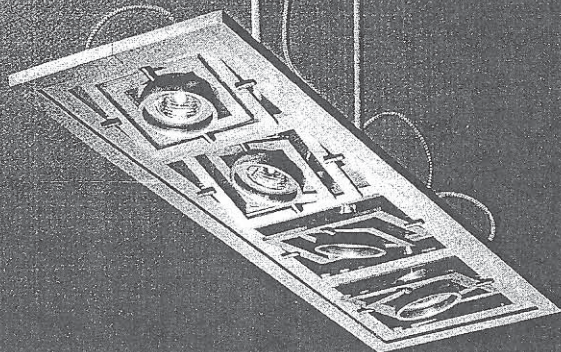
No	Date	Issues and Revisions	By	Check

Interior Lighting

Description: Cut Sheets
Scale: N.A.

A 6.8

the form is elegant



Horizontal Pendant

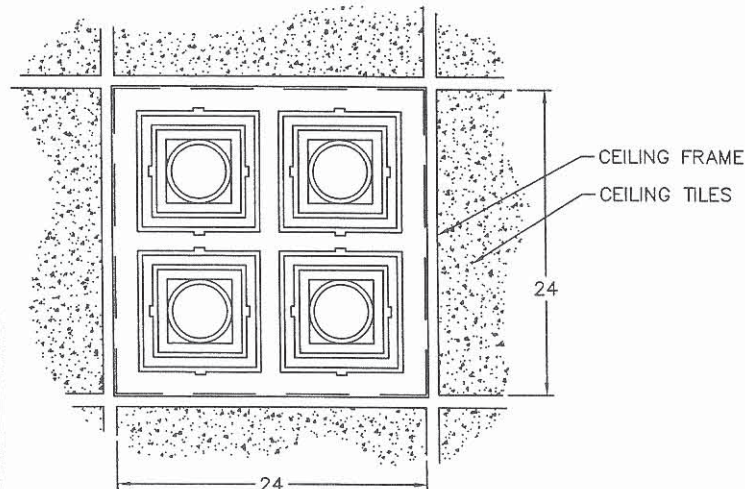
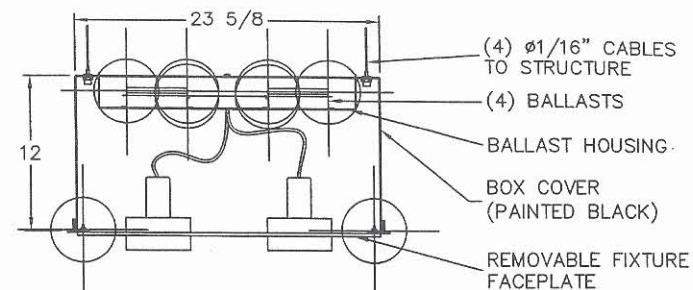
Add elegant simplicity to accent lighting applications on tables, counters or floors. Position Horizontal Pendant Lightframes prominently to provide drama and uniqueness to your installations. Individual lamps are adjustable in pan and tilt, and can be locked into position as desired.


Horizontal Pendant Lightframes are available in two sizes: Small (8" x 8"), for use with MR16, PAR20, ALR and AR70 lamps; and Large (12.5" x 12.5"), for use with AR111, PAR30, PAR36 and PAR38 lamps. Choose incandescent, low voltage or metal halide lamps.


Cable grips allow for variable height adjustments. Ballasts or transformers, when required, are concealed within the ceiling canopy.

Lightframes are available with or without border accent frames. Select from a wide range of standard finishes and accessories to create a unique lighting system specifically tailored to your project.

Horizontal Pendant configurations range from two cells wide by one cell high (2x1) six cells wide by one cell high (6x1) to three cells wide by three cells high (3x3). Lightframes are UL listed and arrive ready to install.



 <p>CHARLES LOOMIS, INC. 11828 N.E. 112th KIRKLAND, WASHINGTON 98033 Tel (425) 823 4560 Fax (425) 823 8654</p>	DESIGN #	JOB #
	TYPE:	
	DATE:	
	SCALE:	
	QUANTITY:	
	FINISH:	
PROJECT:	LAMPING:	
	DRAFTER:	

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
INL-11		(4) PHILIPS #232215 CDM70/PAR30/FL/3K	CHARLES LOOMIS LIGHTING #RE22-PAR30WH-ST-PC	4 LAMP PAR30 METAL HALIDE RECESSED ACCENT LIGHT	RECESSED IN SHOWROOM CEILING - ONE-STORY SHOWROOMS ONLY



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No	Date	Issues and Revisions	By	Check

Interior Lighting

Description: Cut Sheets
Scale: N.A.

A 6.9

CITATION

THE CITATION® SERIES

Distinctive styling combined with excellent lighting control...that is the Citation. Available in three sizes, the clean, strong, and refined Citation enables the achievement of architectural continuity. This is accomplished by combining small, medium, and large fixtures in a harmonious lighting landscape.

SPECIFICATIONS

HOUSING

The Citation's one-piece aluminum housing is available in three sizes: small, medium, and large. Corners are welded and finished to produce a clean, sharp appearance while increasing housing strength and ensuring weather-tight construction. Each fixture is UL listed and CSA certified for wet locations.

LENS/GASKET

Citation's clear float tempered glass lens is sealed to the lens frame with silicone sealant. The lens frame features a continuous, one-piece EPDM gasket for maximum sealing to the housing.

DOOR FASTENERS

The Citation features an extruded aluminum door frame. The Citation features two captive door fasteners to provide secure closure and easy access with no loose hardware.

SOCKETS

Porcelain mogul-base sockets feature spring-reinforced contacts for long life.

LIGHT SOURCES

The Citation is designed to operate with any of the following lamp types: High Pressure Sodium, Super Metal Halide, or Metal Halide with mogul-base sockets.

REFLECTORS/DISTRIBUTION PATTERNS

Three reflector systems and distribution patterns are available with the Citation: Asymmetrical (A), Type III (3), medium distribution pattern for increased pole spacing, and Forward Throw (FT) for perimeter lighting applications to eliminate stray light and produce a sharp backside cutoff. A field-rotatable reflector, which provides flexibility in distribution patterns without moving the fixture, is available with the large 1000 Watt Forward Throw Citation only. All photometric data is certified by an independent testing facility.

FINISHES

Each Citation fixture is finished with DuraGrip®. LSI Lighting Systems' revolutionary superior baked-on polyester-powder finishing process, to give the fixture an exceptionally attractive appearance. Standard finish colors available for the Citation are bronze, black, platinum, cocoa, buff, white, and green. The DuraGrip polyester finish withstands extreme weather changes without cracking or peeling. Finish is guaranteed for five full years.

BALLAST

High-power factor type ballast is mounted to the housing reinforcing plate. The ballast is designed for 20° F operation.

BRACKETS

Bolt-on brackets are shipped standard with Citation fixtures. A 2-1/2" x 6" x 6" aluminum arm mount (bolt-on bracket) is shipped with a small Citation (CTS), and a 2-1/2" x 6" x 12" aluminum arm mount (bolt-on bracket) is shipped with a medium or large Citation (CTM, CTL). (A 6" bracket is available for CTM, CTL, in single and O180° configurations. It must be ordered from the Options column of the ordering chart.) Refer to Poles/Brackets section of catalog for other mounting options, which must be ordered separately.

POLES

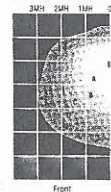
Refer to Poles/Brackets section of catalog for pole information.

 listed for wet locations.

 CSA Certified

PHOTOMETRICS

10000 Metastable (Single)
Type III - Forward Throw



MTG	A	B	C	E
20'	11.25	4.50	2.25	1.13
22'	9.50	3.75	1.88	0.93
24'	8.33	3.33	1.67	0.83
26'	7.69	3.08	1.54	0.77
28'	7.14	2.86	1.43	0.71
30'	6.67	2.67	1.33	0.67
32'	6.25	2.50	1.25	0.63
34'	5.88	2.35	1.18	0.59
36'	5.56	2.22	1.11	0.56
38'	5.26	2.11	1.05	0.53
40'	5.00	2.00	1.00	0.50
42'	4.76	1.90	0.95	0.48
44'	4.55	1.82	0.91	0.46
46'	4.35	1.75	0.87	0.44
48'	4.17	1.68	0.83	0.42
50'	4.00	1.63	0.80	0.40

Lumen Rating: 107,850
Levels shown are in footcandles.

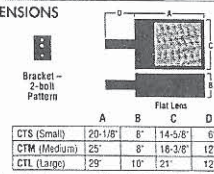


LSI LIGHTING SYSTEMS A Division of LSI Industries Inc.
10000 Alliance Road • P.O. Box 42728 • Cincinnati, Ohio 45242-0728 • (513) 793-3200 • FAX (513) 944-1235



CITATION

DIMENSIONS



Note: A six-inch arm mount (bolt-on bracket) is shipped standard with a small Citation. A twelve-inch arm mount (bolt-on bracket) is shipped standard with a medium or large Citation, unless otherwise specified.

LUMINAIRE EPA CHART

Includes bracket.

	Single	D50°	O180°	190°	TH120°	D90°	Parallel
Small Citation (CTS) 6" Bracket	1.4	2.2	9.8	3.6	3.6	4.4	—
Medium Citation (CTM) 12" Bracket	2.4	4.1	4.8	6.5	6.6	8.2	—
Large Citation (CTL) 12" Bracket	3.2	5.1	6.4	8.3	8.5	10.2	5.4

ORDERING INFORMATION

Select appropriate choice from each column to formulate order code. Refer to example below.

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage**	Luminaire Finish	Options
CTS - Small	A - Asymmetrical 3 - Type III FT - Forward Throw	100 150 175	HPS - High Pressure Sodium 100, 150 Watt SMH - Super Metal Halide 175 Watt MH - Metal Halide 175 Watt	F - Clear Flat Tempered Glass MT - Multi Tap	247V 480V	BRZ - Bronze BLK - Black PLT - Platinum CCL - Cocoa BUP - Buff WHT - White GRN - Green	BRZ - 6" Bracket (CTM or CTL only) PA - Periscope PCR - Photoelectric Control Recessed LL - Lens Lamp CL - Guard Lamp FS120° - Single Fusing FS270° - Single Fusing FS120° - Double Fusing FS270° - Double Fusing FS120° - Double Fusing FS270° - Double Fusing FS120° - Double Fusing FS270° - Double Fusing
CTM - Medium	A - Asymmetrical 3 - Type III FT - Forward Throw	250 400	HPS - High Pressure Sodium 250, 400 Watt SMH - Super Metal Halide 250, 400 Watt MH - Metal Halide 250, 400 Watt				
CTL - Large	A - Asymmetrical 3 - Type III FT - Forward Throw	1000	HPS - High Pressure Sodium 1000 Watt MH - Metal Halide 1000 Watt				

EXAMPLE OF A TYPICAL ORDER

*CTL-FT - Forward Throw reflectors are field-replaceable.
**For international voltages, consult factory.

MT - Multi Tap is shipped standard unless otherwise specified.

Multi Tap consists of 120V, 208V, 240V, and 277V.

*A 6" bracket can only be ordered with single and O180° configurations.

OPTIONAL BRACKET ORDERING INFORMATION

Order Number	Bracket Configuration	Order Number	Bracket Configuration
SKA-400-D180-CLR	D180°	SKA-400-D90-CLR	D90°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°
SKA-400-D90-CLR	D90°	SKA-400-D180-CLR	D180°

Note: CLR - Clear Lens.

ACCESSORY ORDERING INFORMATION

Description	Order Number
CTS HSS - House Side Shield	122519**
CTM HSS - House Side Shield	122520**
CTL HSS - House Side Shield	122521**
CTS PLS - Polycarbonate Shield	122522
CTM PLS - Polycarbonate Shield	122523
CTL PLS - Polycarbonate Shield	122524
RPP - Round Pole Plate	0903901*
PC120V - Photocell	122514
PC208V - Photocell	122515
PC240V - Photocell	122516
PC277V - Photocell	122517
PC480V - Photocell	122518

*Accessories are field installed **Specify Single, **Black only.

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-1		PHILIPS #28655-9 MS400/HOR	LSI #CTL-C-24-S11-SBC-SINGLE-400W MH	ARM-MOUNTED RECTILINEAR CUTOFF LIGHTING, 15'-25' MOUNTING	PLACED ALONG PERIMETER OF LOT
EXL-2		(2) PHILIPS #28655-9 MS400/HOR	LSI #CTL-D-24-S22-SBC-D180-400W MH	SAME AS TYPE EXL-1 EXCEPT (2) FIXTURES PER POLE	PLACED ALONG BUYER'S PATHWAY



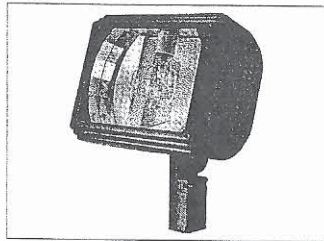
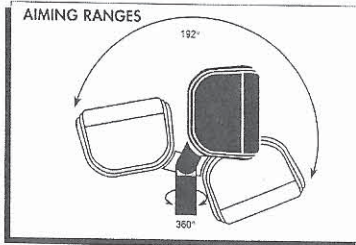
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No	Date	Issues and Revisions	By	Check

Exterior Lighting

Description: Cut Sheets
Scale: N/A

A 6.10



LUMINAIRE ORDERING INFORMATION Select appropriate choice from each column to formulate order code. Refer to example below.							
Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage*	Luminaire Finish	Options
DRM - Doral Medium	HF - Horizontal Flood VF - Vertical Flood MF - Medium Flood SP - Spot	250 400	HPS - High Pressure Sodium 250, 400 Watt MH - Metal Halide 250 Watt MHV - Metal Halide Reduced Envelope Lamp 400 Watt	F - Full Clear Tempered Glass	347V 480V MT - Multi Tap**	BRZ - Bronze BLK - Black PLT - Platinum CDA - Cocoa BUF - Buff WHT - White GRN - Green	PC120V - Button-Type Photocell PC120BV - Button-Type Photocell PC1240V - Button-Type Photocell PC127V - Button-Type Photocell LL - Less Lamp NO - No Options

EXAMPLE OF A TYPICAL ORDER **DRM VF 400 HPS F MT BLK NO**

*For international voltages, consult factory.

**MT - Multi Tap is standard unless otherwise specified. Multi Tap consists of 120V, 208V, 240V, and 277V.

BRACKET ORDERING INFORMATION Select appropriate choice from each column to formulate order code. Refer to example below.					
Bracket Designation	Bracket Type	Bracket Configuration	Length	Bracket Finish	Options
BKA - Bracket Aluminum	DRM - Doral	SMT - Standard Mount Tension PWT - Post-Weld Mount	16' 8'	BRZ - Bronze BLK - Black PLT - Platinum CDA - Cocoa BUF - Buff WHT - White GRN - Green	NO - No Options
		DSM - Double 180 Side Mount HSM - Double 90 Side Mount TSM - Triple 90 Side Mount DSM - Double Side Mount	3' 3' 3' 5'		
		DSM - Double 180 Top Mount TSM - Triple Top Mount DSM - Double Top Mount	25' 24' 25'		
BKS - Bracket Steel	DRM - Doral	FBD - Fixed Bolt-on	5' 18'		

EXAMPLE OF A TYPICAL ORDER **BKA DRM SMT 18 BLK NO**

ACCESSORY* ORDERING INFORMATION	
Description	Order Number
GS - Glass Shield (Specify Finish)	122544
PS - Polycarbonate Shield (Clear Only)	122545
LS - Louver Shield** (Black Only)	122546

*Accessories are field installed.

**Available on medium flood and spot distributions only.

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CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-3	⊙	PHILIPS #33382-3 MH250/115	LSI JDRM-HF-250MH-F-SMT-JB-250MH FL	NARROW BEAM SPOTLIGHT POLE MOUNTED AT 15'-25' A.F.F.	MOUNTED ON PERIMETER POLE LIGHT TO ACCENT 'LOT TALKER'



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No	Date	Issues and Revisions	By	Check

Exterior Lighting

Description: Cut Sheets
Scale: N.A.

A 6.11

Fixture Specifications

Warning: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

Certification: U.L. listed (for 120, 208, 240 and 277 Volt only) and C.S.A. certified (for 120 and 347 Volt only) for wet locations.

Housing: One piece die cast aluminum in a cylindrical shape with integral cooling fins over the entire length, and .125" minimum wall thickness. Concealed integral cast slip hinges with stainless steel pins.

Door Frame: One piece die cast aluminum with integral cooling fins. .125" minimum wall thickness, mates with housing to create a continuous cylindrical shape. Concealed integral cast slip hinges allow removal without tools. Stop-arm provided to limit door frame opening. 3/4" thick clear tempered glass lens is sealed to door frame by a one piece molded silicone gasket. One piece molded silicone gasket between housing and door frame, concealed when fixture is closed. Door frame secures to housing by two stainless steel recessed captive allen-head screws. Four tapped and plugged holes provided for attachment of options.

Standard Swivel: Die cast aluminum with internal locking teeth providing 7.5° adjustment intervals. Stainless steel allen-head locking screws, bearing flange and 1/2" N.P.S.M. nipple.

Heavy Duty Swivel: Cast aluminum with locking teeth providing 5° adjustment intervals. 3/4" stainless steel locking bolt. Two 3/4" stainless steel set point screws secure swivel to any 2" pipe size tenon (2 1/4" O.D. x 3 1/2" min. length).

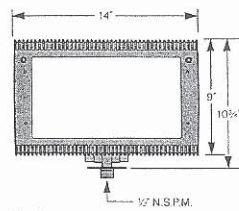
Reflector Assemblies: Interchangeable in all four AFL fixture types. Specular Alzak® aluminum optical components mounted to clear anodized aluminum frame. Reflector assembly snaps into fixture housing with spring clips. HPS and MH medium base sockets are porcelain rated 4KV.

Electrical Components: Factory mounted in housing and prewired with leads extending from swivel. U.L. recognized components with high power factor ballasts rated for 20°F starting. Optional photocell internally mounted with sensor on side of housing.

Finish: Housing, lens frame and swivel are Super TGIC Thermoset Polyester Powder Coat Paint applied over a chromate conversion coating in Black, Dark Bronze, Light Gray or White colors.

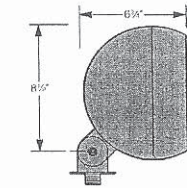
Photometrics: Based on Independent Testing Laboratory (ITL) reports.

AFL 1, 2, 3, & 4
WITH STANDARD SWIVEL

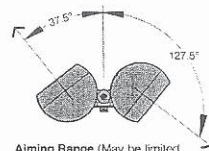


Front

Single Fixture
E.P.A. 0.7 (45° tilt)
1.0 (Face-on)
Weight 24 lbs. maximum

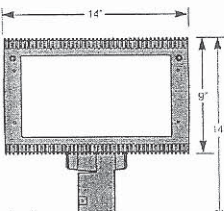


Side



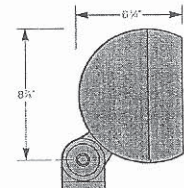
Aiming Range (May be limited by selected mounting option as shown on pages 13-15)

AFL 1, 2, 3, & 4
WITH HEAVY DUTY SWIVEL

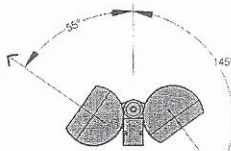


Front

Single Fixture
E.P.A. 0.8 (45° tilt)
1.1 (Face-on)
Weight 25 lbs. maximum



Side



Aiming Range

Kim Lighting 11

Fixture Ordering Information

Fixture and Option Ordering:

Fixture must be ordered by a single catalog number consisting of Fixture Type, Electrical Mode, Fixture Finish, Optional Heavy Duty Swivel, and Optional Photocell.

All additional components must be listed separately from the fixture order number. See pages 13-15 for Standard Swivel Options and pages 16 and 17 for Heavy Duty Swivel Options.

Fixture: AFL1 / 150HPS120 / DB-P / HDS / A-30

All lamps must be rated for "Universal Burning Position."

Clear lamps are recommended for optimum performance.

For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative. See page 11 for U.L. and C.S.A. certification for line voltages listed below.

Fixture Type and Electrical Mode:

Lamp (by others)	Line Volts	Fixture Type and Electrical Mode				Electrical Data	
		AFL1 Horizontal Flood	AFL2 Vertical Flood	AFL3 Horizontal Spot	AFL4 Oval Spot	Line Volts	Maximum Amps
70 Watt Clear	120	70HPS120	70HPS120	70HPS120	70HPS120	84	1.45
High Pressure Sodium	208	70HPS208	70HPS208	70HPS208	70HPS208	88	0.85
E17 Medium Base	240	70HPS240	70HPS240	70HPS240	70HPS240	88	0.80
ANSI S62	277	70HPS277	70HPS277	70HPS277	70HPS277	88	0.75
	347	70HPS347	70HPS347	70HPS347	70HPS347	90	0.65
100 Watt Clear	120	100HPS120	100HPS120	100HPS120	100HPS120	118	2.20
High Pressure Sodium	208	100HPS208	100HPS208	100HPS208	100HPS208	130	1.27
E17 Medium Base	240	100HPS240	100HPS240	100HPS240	100HPS240	130	1.20
ANSI S54	277	100HPS277	100HPS277	100HPS277	100HPS277	130	1.10
	347	100HPS347	100HPS347	100HPS347	100HPS347	130	0.85
150 Watt Clear	120	150HPS120	150HPS120	150HPS120	150HPS120	170	2.80
High Pressure Sodium	208	150HPS208	150HPS208	150HPS208	150HPS208	188	1.80
E17 Medium Base	240	150HPS240	150HPS240	150HPS240	150HPS240	188	1.53
ANSI S55	277	150HPS277	150HPS277	150HPS277	150HPS277	188	1.40
	347	150HPS347	150HPS347	150HPS347	150HPS347	188	1.25
70 Watt Clear	120	70MH120-M	70MH120-M	70MH120-M	70MH120-M	80	1.80
Metal Halide	208	70MH208-M	70MH208-M	70MH208-M	70MH208-M	89	1.00
E17 Medium Base	240	70MH240-M	70MH240-M	70MH240-M	70MH240-M	89	0.90
ANSI M98	277	70MH277-M	70MH277-M	70MH277-M	70MH277-M	89	0.80
	347	70MH347-M	70MH347-M	70MH347-M	70MH347-M	84	0.65
100 Watt Clear	120	100MH120	100MH120	100MH120	100MH120	120	2.60
Metal Halide	208	100MH208	100MH208	100MH208	100MH208	129	1.50
E17 Medium Base	240	100MH240	100MH240	100MH240	100MH240	129	1.30
ANSI M90	277	100MH277	100MH277	100MH277	100MH277	129	1.15
	347	100MH347	100MH347	100MH347	100MH347	129	0.90
150 Watt Clear	120	150MH120-M	150MH120-M	150MH120-M	150MH120-M	185	3.65
Metal Halide	208	150MH208-M	150MH208-M	150MH208-M	150MH208-M	185	2.10
E17 Medium Base	240	150MH240-M	150MH240-M	150MH240-M	150MH240-M	185	1.80
ANSI M102	277	150MH277-M	150MH277-M	150MH277-M	150MH277-M	185	1.50
	347	150MH347-M	150MH347-M	150MH347-M	150MH347-M	185	1.25
175 Watt Clear	120	175MH120	175MH120	175MH120	175MH120	215	1.80
Metal Halide	208	175MH208	175MH208	175MH208	175MH208	215	1.04
E17 Medium Base	240	175MH240	175MH240	175MH240	175MH240	215	0.90
ANSI M57	277	175MH277	175MH277	175MH277	175MH277	215	0.78
	347	175MH347	175MH347	175MH347	175MH347	210	0.65
500 Watt Maximum Quartz T-4 Min-Can	120	500Q120	500Q120	500Q120	500Q120	500	4.17

Fixture Finishes:

Super TGIC thermoset polyester powder coat paint applied over a chromate conversion coating.

Cat. No. Color
BL-P Black
DB-P Dark Bronze

Cat. No. Color
LG-P Light Gray
WH-P White

12 Kim Lighting

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-4	⊙	PHILIPS #23444-3 COMP100/C/U/M	KIM #AFL15/100MH-120-WW2-DB-P	WIDE BEAM FLOODLIGHT	MOUNTED AT CANOPY TO ACCENT VEHICLE - MOUNTED 1'-6" ABOVE GRADE TO ACCENT LOT TALKER



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check

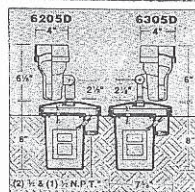
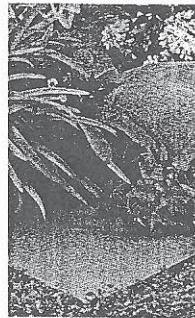
Exterior Lighting

Description: Cut Sheets
Scale: N.A.

A 6.12



6205D
6205R
6305D
6305R



H.I.D. Accent

CAST BRONZE and CAST ALUMINUM



6205RDL mounted on optional J-2 Box

SPECIFICATIONS

Housing, Shield: Die cast aluminum (6205), Cast bronze (6305).
Switch: Die cast aluminum, locking switch, 1/2" N.P.T. (6305), cast bronze, set screw lock, 1/2" N.P.T. (6205), with solid brass locknut for mounting.
Lens: Convex clear tempered glass with silicone gasket.
Socket: Porcelain medium base.
Wiring: No. 18AWG rated 100°C.
Finish: Verde Green-GR, Black-BL and Dark Bronze-DB Super TGIC powder coat paint (6305), Natural as-cast bronze (6205).
Ballast Box: High temperature compression molded featuring long-life fiberglass impregnated heavy wall construction. Wall separates ballast chamber from splice compartments, splice area 32 cubic inches, prewired, (2) anti-siphon clips to and from ballast chamber. Conduit entry: (2) 1/4" N.P.T. for through wiring, (1) 1/2" N.P.T. for remote wiring.
Ballast Cover: Cast bronze, supplied with 1/2" N.P.T. for direct mount, with stainless steel set screw lock. Flat for remote mount.
Ballast: High power factor, 20°F. starting, mounted on tray, 120v standard.

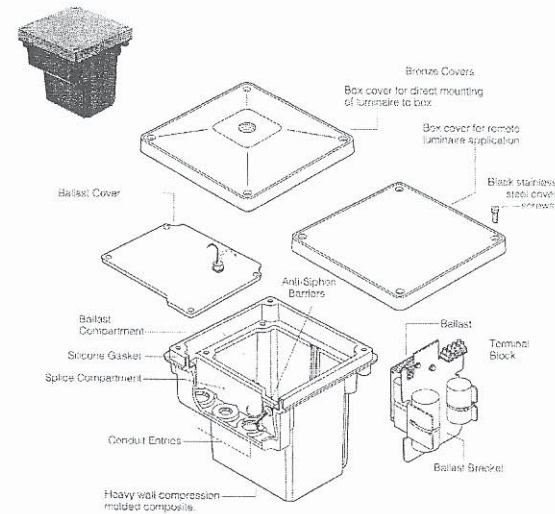
Note: You must specify direct "D" or "R" remote mount in place of "A" symbol.
 Specify 277 volts by replacing "120" in Catalog Number, example: 615D/35MH-277R.

CATALOG NUMBER	VOLTS/AMPS	LAMP	REMOTE MOUNT MAX. DISTANCE	AIMING
6205A/35MH120/GR Die Alum	120/0.93	35w PAR20	50	NU
6205A/35MH120/BL Cast Alum	277/0.40	35w Metal Halide	50	NU
6305A/35MH120 Cast Bronze	120/0.93	35w PAR20	50	NU
	277/0.40	35w Metal Halide	50	NU

Mounting Options: page 46 & 47
 - Below Grade Junction Box
 - Surface Mount
 Installation Guide: page 48 & 49
 Photometric Data: page 60
 Low Voltage Version: page 72
 Incandescent Version: page 26

38
K I M
LIGHTING

H.I.D. Composite Ballast Box



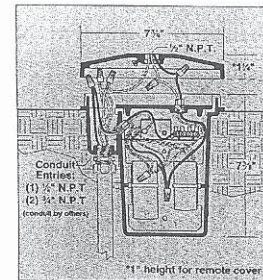
SPECIFICATIONS

Composite Ballast Box: Ballast box is compression molded with (2) 1/2" and (1) 3/4" integrally molded N.P.T. threaded conduit entries, U.L. 16500 to withstand continuous temperature of 100°C, U.L. 94-V0 flammability rating. Color: Black housing with raw cast bronze cover. Molded one piece silicone cover gasket, 1/2" wall thickness.

Specify "D" (direct mount) or "R" (remote mount) when choosing luminaires. Composite ballast box is not sold separately.

Maximum Remote Mounting Distances (from ballast to lamp socket)

Wattage/Type	Volts	Maximum Distance
35 MH	120/277	50'
70 MH	120/277/347	50'
100 MH	120/277/347	50'
175 MH	120/277/347	200'



*1" height for remote cover

38
K I M
LIGHTING

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-5	⊗	PHILIPS #22365-0 CDM35/PAR20/M/SP	KIM #6305-35MH	FLOODLIGHT W/ CLEAR TEMPERED GLASS, BALLAST BOX - GROUND MOUNTED & SURFACE MOUNTED	GROUND MOUNTED AT SECONDARY DIRECTIONAL SIGN AND SURFACE MOUNTED IN CANOPY TO ACCENT BANNER



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No	Date	Issues and Revisions	By	Check

Exterior Lighting

Description: Cut Sheets
 Scale: N/A

A 6.13

**MODEL M9400 SERIES
MODULAR IN-GRADE LUMINAIRE
SINGLE LENS
METAL HALIDE 70 WATT MAX.
230 mm (9 in.) ROUND or SQUARE
BRONZE, ALUMINUM, STAINLESS
STEEL DOOR**

DESCRIPTION:

The M9400 Series Modular In-grade lights are multi-purpose units designed for flush mounting in a variety of substrates or materials. The M9400's are used to uplight architectural and landscape features. The units consist of a factory-sealed, thermally protected Lamp Module. An epoxy encapsulated Power Module is placed in a secured Rough-In Section (RIS) which includes channelled convective cooling, an integral junction box, and door assembly. The RIS provides high strength to meet drive over requirements. This unit features Aim-Lock™ to allow maintenance and relamping without re-aiming. The M9400 has a small, 230mm (9 in.) footprint with a cylinder/vault configuration.

STANDARD SPECIFICATIONS:

DOOR FINISH: Cast aluminum, cast bronze, cast bronze with stainless perforated trim insert or Stainless Steel. Round or square with two stainless steel captive fasteners that lock the Lamp Module into the Rough-In Section.

ROUGH-IN SECTION: Injection molded polymer with integral junction box for branch wiring (410 ccm - 25 in³), U.V. stabilized, impact and corrosion resistant for use in all types of environments. Houses Power Module, Lamp Modules and finishing components. Adjustment ring provides 360° aim rotation with keyed section to receive Lamp Module. Ring locks into position with stainless steel fasteners. RIS has a cylinder/vault configuration.

LAMP MODULE: Stainless steel, sealed and purged of all moisture with silicone gaskets, stainless steel clamp band and single fastener. Electrical connection to Lamp Module is done through submersible connector with gold-plated contacts. **THERMALLY PROTECTED.**

LAMP TYPES:

Type	Envelope	Watts
MH	G-12	35 (Color Corrected)
MH	G-12	70 (Color Corrected)
MH	PAR-30L	35 (Color Corrected)
MH	PAR-30L	70 (Color Corrected)

VOLTAGES: 120V, 208V, 240V, 277V - 60 Hz, 220V, 230V, 240V - 50 Hz

LIGHT DISTRIBUTIONS (Non Reflectorized Lamps):
SPOT
FLOOD

TYPE**MODEL #:**

NOTE: HYDREL RESERVES THE RIGHT TO CHANGE ANY SPECIFICATION WITHOUT NOTICE.

Any dimensions on this sheet are to be assumed as a reference dimensions. *Used for information purposes only. It does not govern manufacturing or inspection requirements. (ANSI Y14.5-1973)

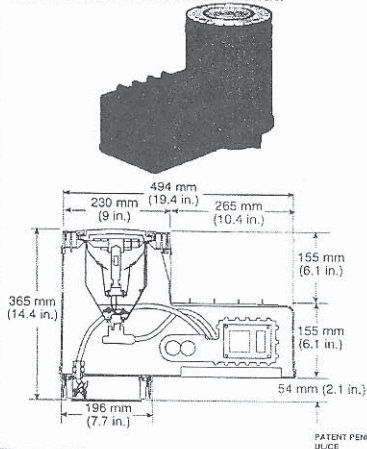
FINISHING SECTION:

Single Lens: Includes 360° Rotolock Module Support Ring and Door Assembly providing maintenance and relamping without re-aiming. Active lenses bend beam for tilted spot distribution (5°, 10° and 20°). Tilt lenses are available with spot distributions (specify tilt). Simple module rotation provides aiming. Spread lenses are provided for flood distributions.

POWER MODULE: Ballast is encapsulated in a custom-heat dissipating epoxy resin to eliminate all moisture intrusion to the ballast. Provided with submersible rated cord/connector for connection to integral junction box and lamp module. Ballasts are magnetic. **THERMALLY PROTECTED.**

ELECTRICAL MAINS ENTRIES/JUNCTION BOX: Two PG 16 or two 3/4" NPT bottom openings, standard. One hole is provided with IP68 cord seal that accepts ø10mm to ø14 mm cable. Second hole plugged. Box suitable for through branch wiring. Splicing volume 410 ccm (25 in³).

ACCESSORIES: Internal Glare Control, Internal Honeycomb Louvers, Rock Guards, Trim Rings. Re-entrant Potting Compound, Lexan Covers, External Glare Shield are available.



12881 BRADLEY AVENUE, SYLMAR, CALIFORNIA 91342 • PHONE: 818/362-9455 • FAX: 818/362-6548

HYDREL STANDARD DATA SHEET S/LTG-94HDSING 7/98

M94 10 A - MH35 / 120-60 / MFL / 34B / GSA

Style:
10 = Single Lens/Round
30 = Single Lens/Square

Door Material:

A = Aluminum
B = Bronze
SS = Stainless Steel (Trim Door)
ASP = Aluminum w/ Stainless Perf.
BBP = Bronze w/ Brass Perf.
BSP = Bronze w/ Stainless Perf.
ABL = Aluminum w/ Black Paint

Voltage: (Specify both voltage and frequency)

60 Hz	50 Hz
120	220
220	230
208	240
240	
277	
347	

*Note: Not all Voltage / Lamp combinations are available. Consult factory for more information

Electrical Entries:

34B = 3/4" NPT Bottom
12B = 1/2" NPT Bottom
16B = PG16 Bottom
1B = 1" NPT Bottom
34S = 3/4" NPT Side
12S = 1/2" NPT Side
16S = PG16 Side

Distribution:

NSP = Narrow Spot (G12, Minican, and Ba15d Base only)
SP = Spot (PAR lamps)
MFL = Medium Flood (G12, Minican, and Ba15d Base only)
FL = Flood (PAR lamps)
Par Lamps are available in NSP, NFL, and FL as allowable by lamp manufacturers.

Accessories:

GSA = Glare Shield (Aluminum)
GSB = Glare Shield (Bronze)
RGA = Rock Guard (Aluminum)
RGB = Rock Guard (Bronze)
IHL-20 = Internal Honeycomb Louver (for PAR20 lamps)
IHL-30 = Internal Honeycomb Louver (for PAR30 lamps)
IHL-94 = Internal Honeycomb Louver (non adjustable)
LPC = Lexan Protective Cover
STR = Stainless Steel Trim Ring
ISS = Internal Source Shield (G12, Minican, Ba15d Base Only)
Tilt10 = 10° Tilt Lens
Tilt20 = 20° Tilt Lens
AS5 = 5° Axial Spread Lens
PAR-21-12 = 20 cu. in. reenterable potting compound

Lamp Type:

Lamp Code	US Base (60 Hz)	European Cap/Base (50 Hz)	Description
MH35	G12	G12	35 watt Metal Halide (Color Corrected)
MH70	G12	G12	70 watt Metal Halide (Color Corrected)
MH35Par20	Medium	E12	35 watt Metal Halide (Color Corrected)
MH35Par30L	Medium	E27	35 watt Metal Halide (Color Corrected)
MH70Par30L	Medium	----	70 watt Metal Halide (Color Corrected)

HYDREL STANDARD DATA SHEETS/LTG-94HDSING PART NUMBER DESCRIPTION 7/98

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-6		PHILIPS #22365-0 COM35/PAR20/H/SP	HYDREL #M9410-A-MH35/120/SP/34B/TILT10	WELL LIGHT W/ FIXED ASYMMETRICAL, CLEAR, FLUSH LENS OF TEMPERED GLASS W/10°TILT, AND 15°SPOT LAMP	MOUNTED IN GRADE 1'-6" FROM PORTAL - AT ENTRY TO ACCENT PORTAL



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No	Date	Issues and Revisions	By	Check

Exterior Lighting

Description: Cut Sheets

Scale: N.A.

A 6.14

SMV-175 LUMINAIRE

LOW BAY VANDAL RESISTANT NEW PRODUCT ENCLOSED

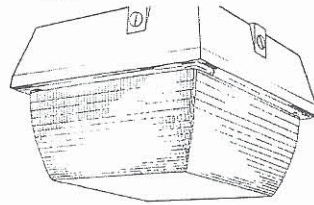
APPLICATIONS

For 8-15 ft (2.5-4.5M) new and retrofit installations in apartment/office complexes, schools, malls, parking garages, motel/hotels

SPECIFICATION FEATURES

- UL 1572 Listed SUITABLE FOR WET LOCATIONS - Ceiling Mount
- UL 1572 Listed SUITABLE FOR DAMP LOCATIONS - Wall Mount
- UL Listed to Canadian National Standards and Codes - Pending. Contact Factory
- Standard construction is IP52
- Max ambient of 25°C
- Architectural bronze paint finish, die-cast aluminum housing
- Vandal resistant, prismatic, polycarbonate refractor
- Tamper-resistant (T-15 center pin torx-head) hardware included
- Medium base lamp included with 150 watt and below
- Shipped as complete luminaire

TYPE EXL-7
GE
SMVB10MIHC
HIGH ABUSE W/CLEAR POLYCARB
LENS



ORDERING NUMBERS

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	TYPE BALLAST	REFRACTOR**
SMVB10SINC	100	HPS	120	NPF	Clear
SMVB10SINC	150	HPS	120	NPF	Clear
SMVB10MIHC	100	MH	120	HPF	Clear
SMVB17MIAC	175	MH*	120	Autoreg	Clear

NOTES: * Mogul base socket. Lamp NOT Included
** To order white refractor change "C" in Ordering Number to "W"

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Clear Refractor Photometric Curve # 35-17----	White Refractor Photometric Curve # 35-17----
100, 150	HPS	5809	9611
100, 175	MH	5810	9612

DATA

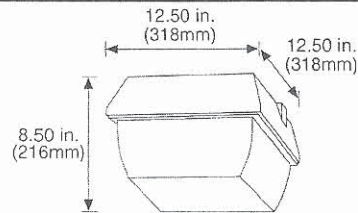
Approximate Net Weight	14 lbs (6.5 kgs)
Suggested Mounting Height	8-15 ft (2.5-4.5 M)

ACCESSORIES

Tamper-proof T-15 center pin torx-head screwdriver C740G989

Photoelectric Control (Field Installed) PEK-120SBW

DIMENSIONS



The listing number, options and model numbers shown on this drawing are UL Listed (special approval listed). Data subject to change without notice.

CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-7	⊕	PHILIPS #23444-3 CDMP100/C/U/M	G.E. #SMVB10MIHC	HIGH-ABUSE MH W/ CLEAR POLYCARBONATE LENS	SURFACE MOUNTED TO THE UNDERSIDE OF SERVICE CANOPY



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No	Date	Issues and Revisions	By	Check

Exterior Lighting

Description: Cut Sheets
Scale: N.A.

A 6.15

ECHO 1.5 ■ ECR / EDR / EXR - Remote

New six-inch diameter housings are available in three styles: solid or perforated steel and all-new extruded aluminum. Lamping options include metal halide and quartz-halogen lamps for exceptional light output and color rendition.

7 Echo provides ambient lighting in this conference room



ECR 4203 120 BFT



EDR 4203 120 BFT

Housing Construction

- ECR - perforated, 18 gauge roll formed steel
- EDR - solid, 18 gauge roll formed steel
- EXR - extruded 125 aluminum
- Die cast aluminum end caps with rotation stops
- Flush mounted fasteners
- UL Listed, CSA Certified damp location
- Decorative Shapes™ on pp. 24 - 27

Mounting

- Yoke bracket die formed, 14 gauge steel
- Field adjustable housing
- Surface mount over a 4" box
- Cover plate conceals wiring and mounting hardware

Reflector

- 65% efficient / asymmetric
- Maximum candlepower between 25° and 45° above horizontal
- Segmented, 83% reflective, specular clear hammer-tone aluminum
- Impact and heat resistant, tempered, textured glass lens

Ballast

- ECR / EDR / EXR - Remote
- Magnetic, 120 / 277 volt operation
- Encased and potted
- CWA-HPF design
- Ultraviolet safety switch, MH only
- Thermally protected
- 347 and other voltages / frequencies available for international market †
- † Additional information on page 37

Painted Finish

- Textured black (BFT)
- Outdoor finishes: Textured black (BFT), White (WH) and Bronze (BZ)
- All metal surfaces first thoroughly cleaned and coated with thermoset polyester paint
- Consult Powder Coat Color Finishes catalog page for additional standard painted finishes

MRI Construction - (MRI)

- ECR / EDR - perforated or solid, roll formed aluminum housing
- Die cast aluminum end caps with rotation stops
- Yoke bracket die formed aluminum

Wet Location Construction - (WL)

- EXR - extruded aluminum housing only, UL Listed, CSA Certified wet location
- Quartz lamping only
- Die cast aluminum end caps with rotation stops
- Tamper-resistant fasteners
- Aluminum lens frame with gasketing
- Yoke bracket die formed, 14 gauge stainless steel
- Flexible weatherproof power cord with watertight fittings
- Consult factory for ground mount

LENGTH	FIXTURE	NUMBER	LAMPING	PHOTOMETRY	VOLTAGE	FINISH	ACCESSORIES pp. 18 - 20
12"	• ECR • EDR • EXR	• 4203 • 4403 • 4723 • 4733 • 4743	(1) 70 T6 RSC MH (1) 150 T6 RSC MH (1) 150 T4 DC BAY QTZ (1) 300 T3 RSC QTZ** (1) 350 HIR T3 RSC QTZ**	E435-3 E435-3 E435-10 E435-10 E435-10	• 120 / 277 • 120	• BFT	<ul style="list-style-type: none"> • CS - Cutoff shield, consult for WL • CM - Ceiling mount ** • PM - Pier mount ** • SM - Stern mount ** Specify stem length: SM 24 • Consult factory for clusters • HM - Hub mount ** • WL - Wet location construction, E435 quartz lamping only † • RPI - Remote ballast support tray ** † • MRI - Non-magnetic fixture † • F - Fuse option, MH only † ** Not available for WL fixture † Technical information, page 37

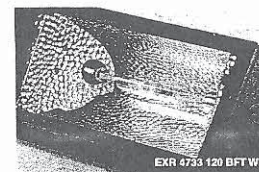
* Indirect orientation only



EDR 4403 120 BFT CS BFT

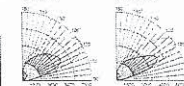
SAMPLE: EXR 4733 120 BFT WL

PHOTOMETRICS

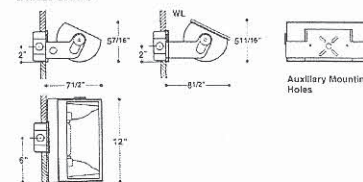


E435-3

E435-10

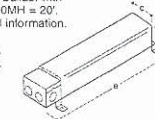


DIMENSIONS



Standard Remote Ballast Kit
Maximum Distance Lamp to Ballast with No. 12 Wire: 70MH = 20', 150MH = 20'. Consult factory for additional information.

SIZE	A	B	C
70 MH	3"	13 3/8"	33 1/8"
150 MH	3"	16 1/8"	33 1/8"



CODE	SYMBOL	LAMP	MANUFACTURER	DESCRIPTION	LOCATION
EXL-8		PHILIPS #22337-0 CDM70/16/830 (G12 BASE)	SPI #EDR 4203 ML GY422 70MH	MH W/ REMOTE BALLASTS; WET LOCATION CONSTRUCTION; 120/277 VOLT	MOUNTED ON PORTAL CANOPY



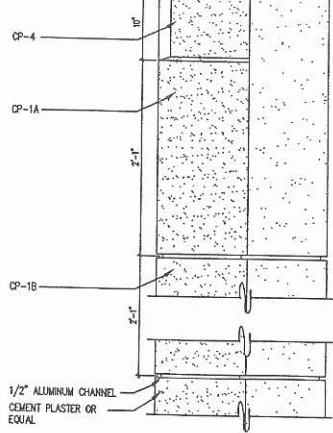
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No	Date	Issues and Revisions	By	Check

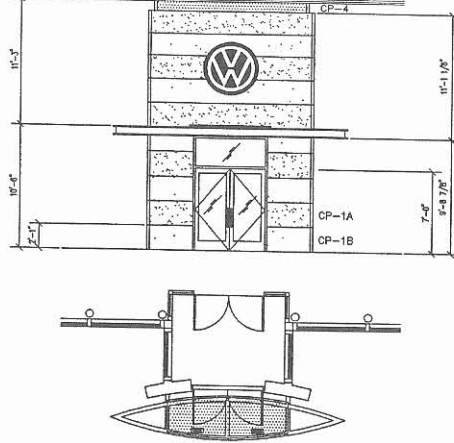
Exterior Lighting

Description: Cut Sheets
Scale: N.A.

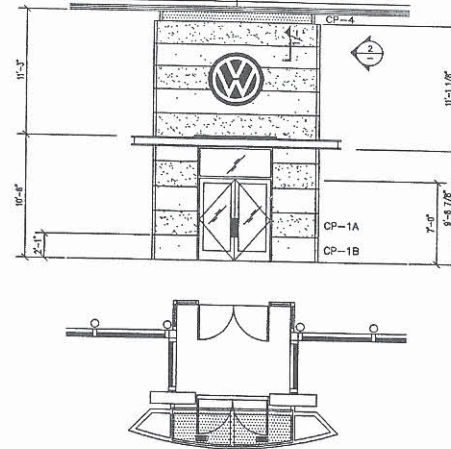
A 6.16



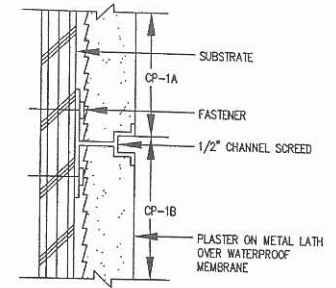
Detail @ Top Reveal
3/4\" = 1'-0"



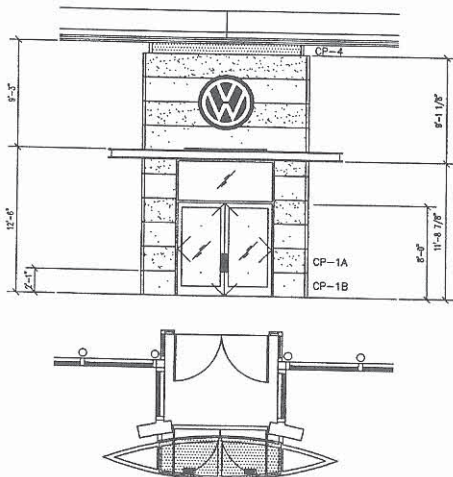
36" Double Doors - 36T



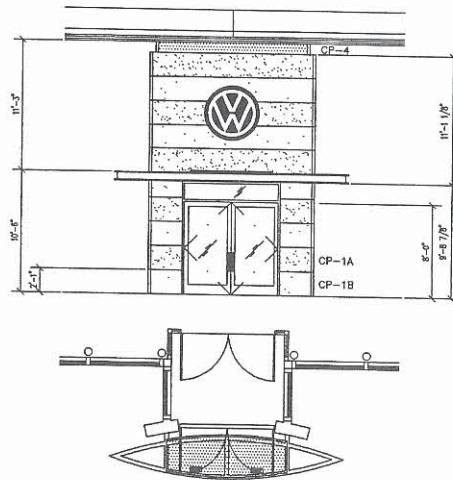
36" Double Doors - 36T-FLAT



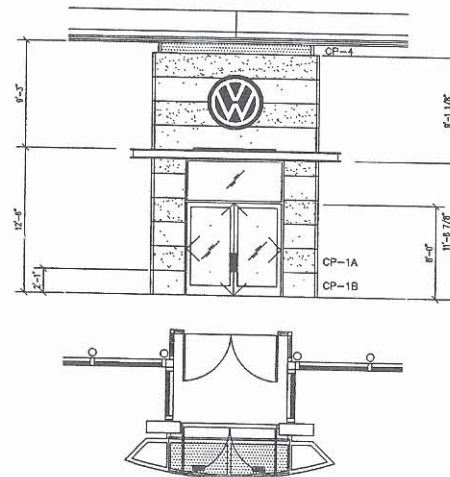
Detail @ Portal Reveal
N.T.S.



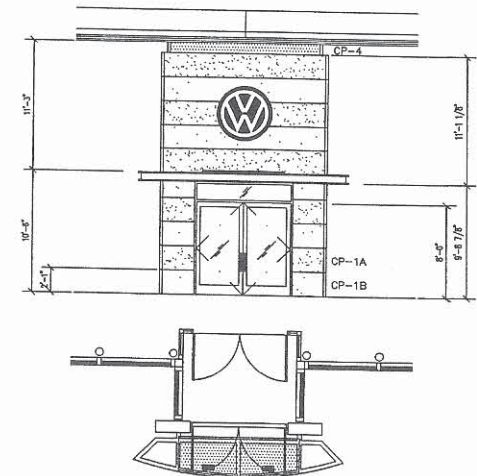
48" Double Doors - 48T



48" Double Doors - 48S



48" Double Doors - 48T-FLAT



48" Double Doors - 48S-FLAT



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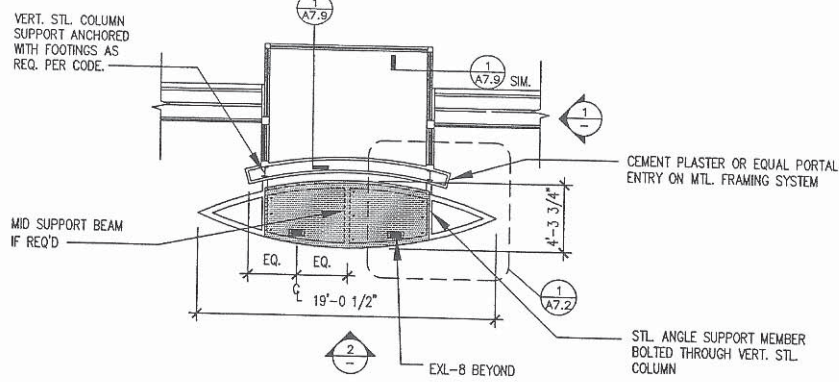
No	Date	Issues and Revisions	By	Check
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Entry Portal Details

Description: 36" & 48" Doors

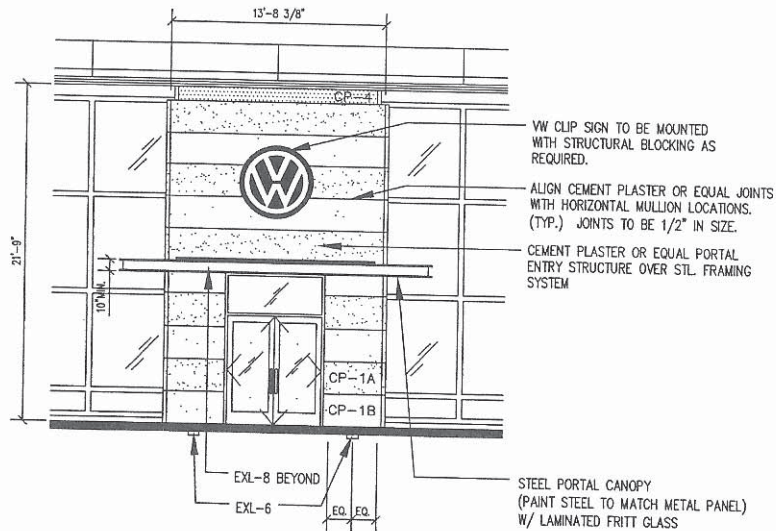
Scale: 3/32" = 1'-0"

A 7.0



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

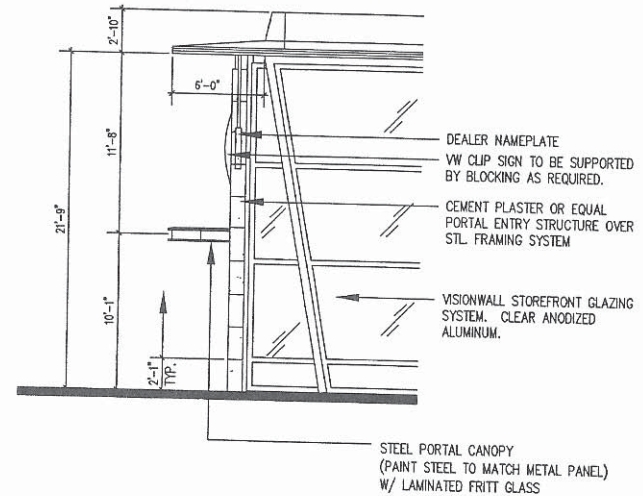
NOTE: PORTAL DIMENSIONS MAY VARY SLIGHTLY BASED ON FACILITY TYPE AND/OR EXIST'G. BLD'G. CONDITIONS



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

General Notes:

1. ALL STEEL DIMENSIONS, CONNECTIONS AND LOCATIONS TO BE VERIFIED BY A PROFESSIONAL ENGINEER.
2. CANOPY TO BE PAINTED TO MATCH ALUMINUM ROOF PANEL SYSTEM.
3. FOOTING DEPTH AND DESIGN FOR SUPPORT COLUMNS TO BE VERIFIED BY LOCAL ARCHITECT.
4. CEMENT PLASTER SYSTEM SHALL BE DESIGNED TO PREVENT OR CONTROL CONDENSATION WITHIN THE ASSEMBLY.
5. FRITTED GLASS PANELS SHALL BE SLIGHTLY PITCHED TO DRAIN.
6. PROFESSIONAL ENGINEER TO VERIFY MTL. STUD GAUGE AND SPACING TO RESIST WIND LOADS.
7. VW CLIP SIGNAGE INSTALLATION SHALL BE COORDINATED WITH CURVED FACE OF THE PORTAL.
8. PROVIDE EXPANSION/CONTROL JOINTS AS REQUIRED.
9. CERAMIC FRIT GLASS TO BE LAMINATED WITH 50% STAGGERED 3/8" DIAMETER WHITE DOTS



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



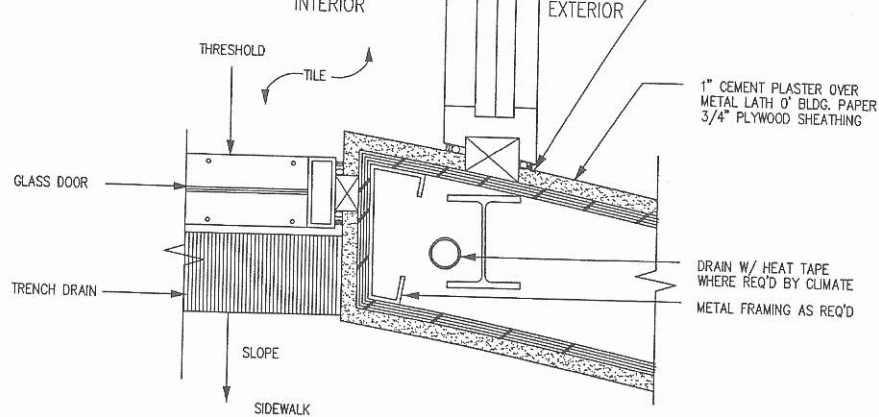
These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check
	10/20/99			

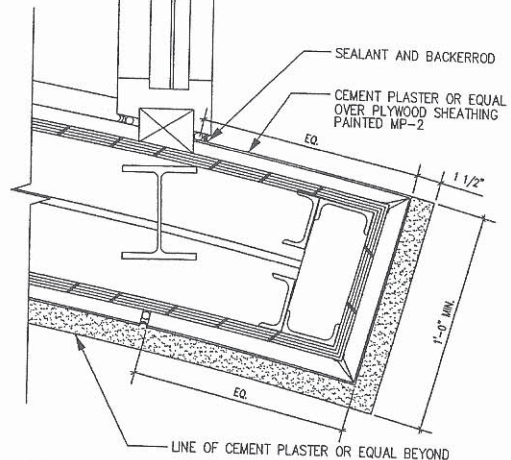
Entry Portal Details

Description: Entry Portal Details
Scale: As Noted

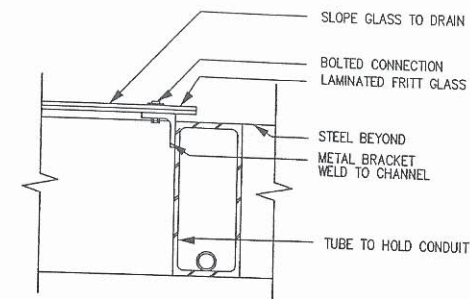
A 7.1



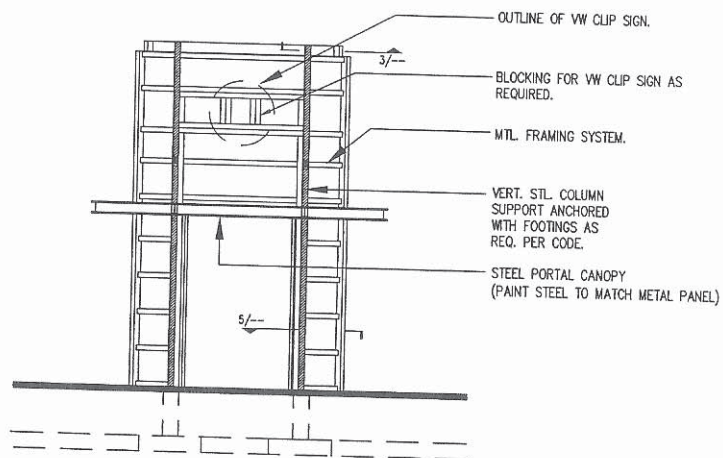
DETAIL @ ENTRY CORNER
SCALE: 1 1/2" = 1'-0"



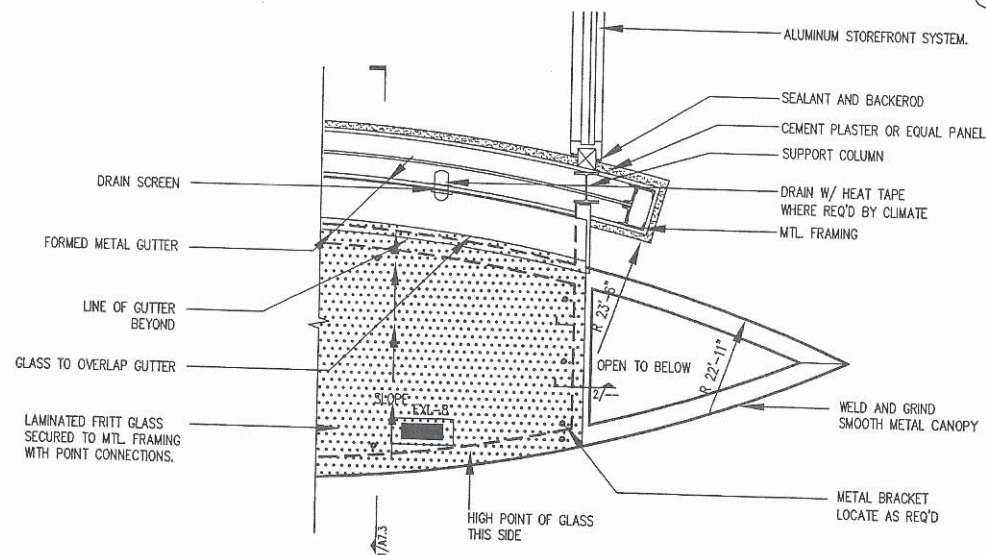
DETAIL @ METAL PANEL BAND OF PORTAL
SCALE: 1 1/2" = 1'-0"



DETAIL @ CANOPY GLASS CONNECTION
SCALE: 1 1/2" = 1'-0"



FRAMING DIAGRAM @ ENTRY PORTAL
SCALE: 1/8" = 1'-0"



ENLARGED PLAN @ CANOPY
SCALE: 1/2" = 1'-0"



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

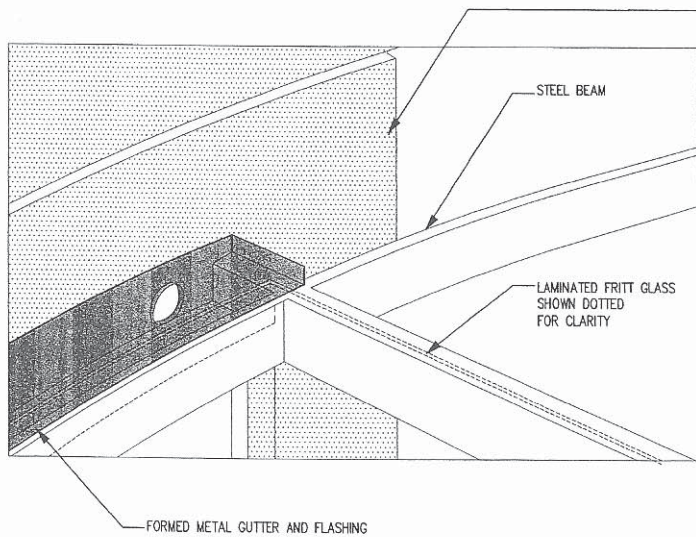
No	Date	Issues and Revisions	By	Check
	08/20/99			

Entry Portal Details

Description: Entry Portal Details

Scale: As Noted

A 7.2



AXON OF FORMED METAL GUTTER

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

2

CEMENT PLASTER O METAL/ LATH
O/ BUILDING PAPER O/ SHEATHING

RADIUS FLASHING

GLASS TO OVERLAP GUTTER

LAMINATED FRIT GLASS
WITH METAL FASTENERS

10"

CURVED STEEL BEAM
SECTION SAME AS W 10X15

ALIGN

STOREFRONT FRAME

DOOR

FORMED METAL GUTTER

METAL FRAMING

INTERNAL DRAIN W/
FASTENING CLAMP

TRANSOM LITE

SECTION @ ENTRY CANOPY DRAINAGE

SCALE: 1" = 1'-0"

1



These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

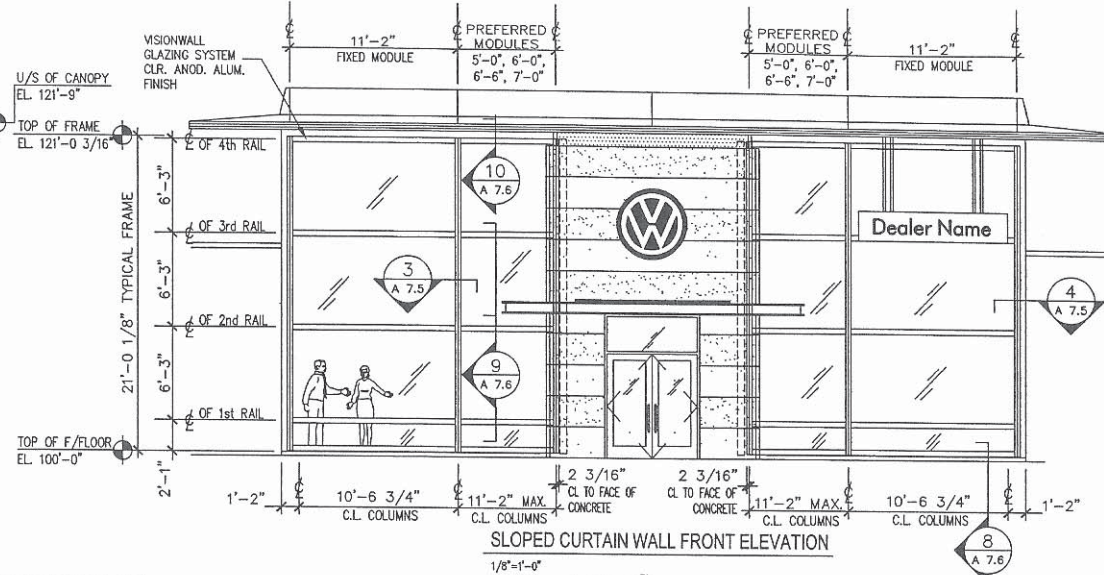
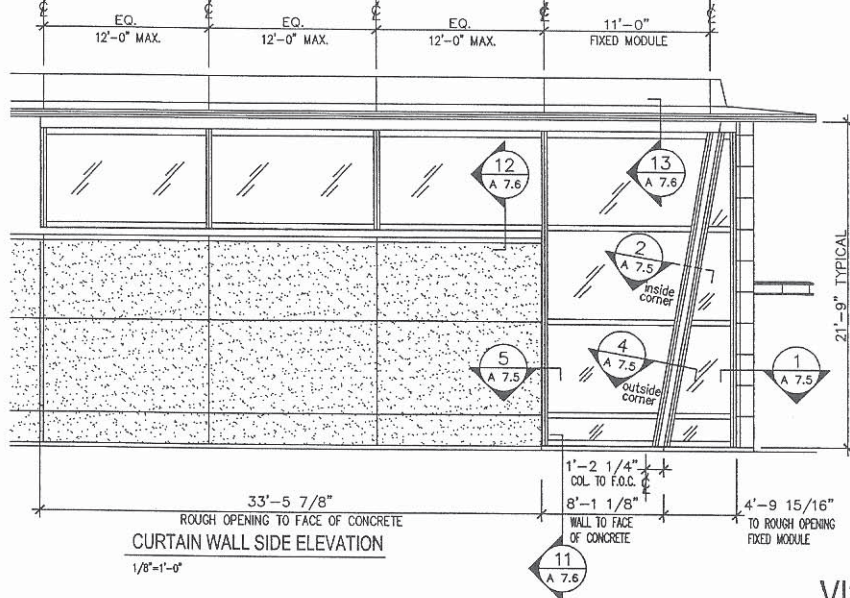
No	Date	Issues and Revisions	By	Check
	1/15/99			

Entry Portal

Description: Details

Scale: AS NOTED

A 7.3



VISIONWALL® High Performance Panelized Factory Glazed Window and Curtain Wall Systems with 3-Element Glazing Unit and M10 Series Frame



Contact the Visionwall Marketing Department to receive a Design Reference Manual
phone: (780) 451-4000 email: marketing@visionwall.com
US Sales Offices: Utah ph: 801-280-7100 email: merthera@visionwall.com
Massachusetts ph: 781-271-0600 email: frohlich@visionwall.com

1. FRAME CONSTRUCTION AND MATERIAL

1.1 Construction:

- thermally broken composite frame with extruded aluminum outer and inner frame members separated by synthetic material webs. Webs mechanically attached to the outer and inner extruded frame members without the use of screws, bolts, rivets or adhesives.
- butt joints secured into screw-ports and sealed with sealant.
- complete system to act as a pressure equalized rain screen so as to drain to exterior any water entering the frame cavity.

1.2 Material:

- Aluminum: Aluminum Association Alloy AA-6063-T6 or T54.
- Webs: Glass fiber reinforced nylon.
- Air Seal Gasket: E.P.D.M. extrusions.
- Compression and Wedge Gaskets: E.P.D.M. extrusions.
- Fasteners & Keys: Aluminum, stainless steel, die cast zinc, cadmium plated steel.
- Exterior Finish: clear anodized
- Interior Finish: clear anodized

2. GLAZING UNIT CONSTRUCTION AND MATERIAL

2.1 Construction:

- three element pressure equalized air filled unit consisting of outer glass pane, one internal optically clear film and an inner glass pane.
- internal film biaxially suspended by a spring suspension system to accommodate thermally induced dimensional changes without imposing undue stress on the films.
- synthetic, low thermal conductivity spacer complete with desiccant.
- perimeter vapour barrier sealed to unit with butyl adhesive.

2.2 Materials:

- Exterior Glass: 6 mm thick low-E coated clear float glass
- Interior Glass: 6 mm thick low-E coated clear float glass
- Setting Blocks: neoprene, 80 durometer
- Perimeter Vapour Barrier: type 304 annealed stainless steel
- Internal Suspended Film: 0.003" thick optically clear P.E.T.
- Glass to be tempered where required by code.

3. WINDOW PERFORMANCE RATINGS

(based on a 48"x72" unit at NFRC/ASHRAE standard weather conditions)

3.1 Thermal Transmission Coefficient: per ASTM

C236-87/AAMA 1503.1-1988; U = 0.22 BTU/hr-ft² °F for overall window (glazing unit plus frame), based on air as fill gas inside of glazing unit.

3.2 Shading Coefficient: SC = 0.34

3.3 Visible Light Transmission: Tvis = 55% (through glazing unit)

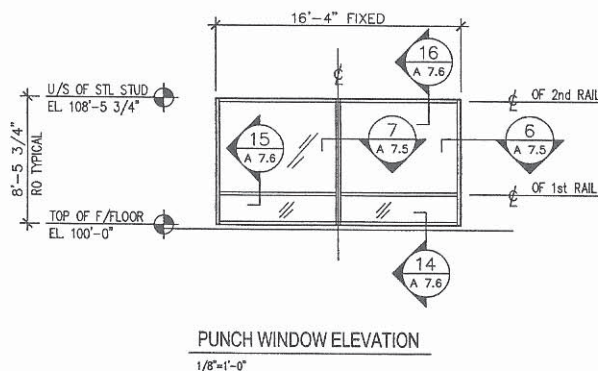
3.4 Sound Transmission Loss Characteristic: per ASTM Std. 90-87; STC = 36

3.5 Air Leakage: per ASTM 283-84 = 0.01 cfm/ft² @ 1.57 psf

3.6 Static and Dynamic Water Penetration (ASTM E331): No water visible on indoor side at a pressure differential of 20% of design load or 6 psf (287 Pa), whichever is greater.

3.7 Ultra Violet (UV) Transmission = 0%

3.8 Exterior Light Reflection = 14%



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No	Date	Issues and Revisions	By	Check
	10/25/99			

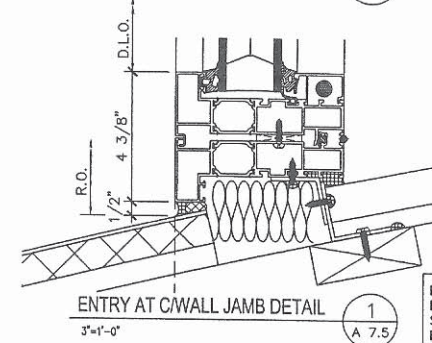
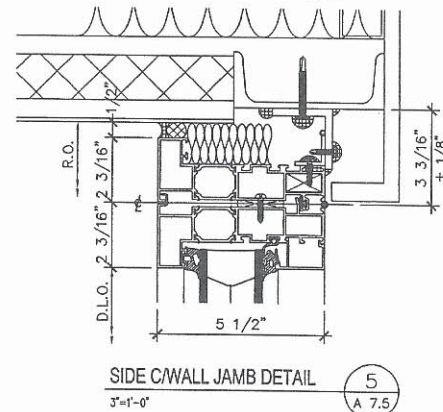
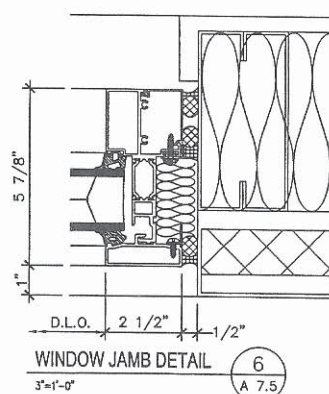
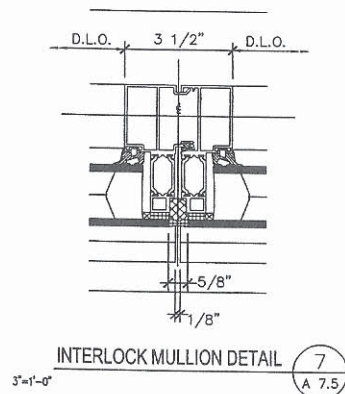
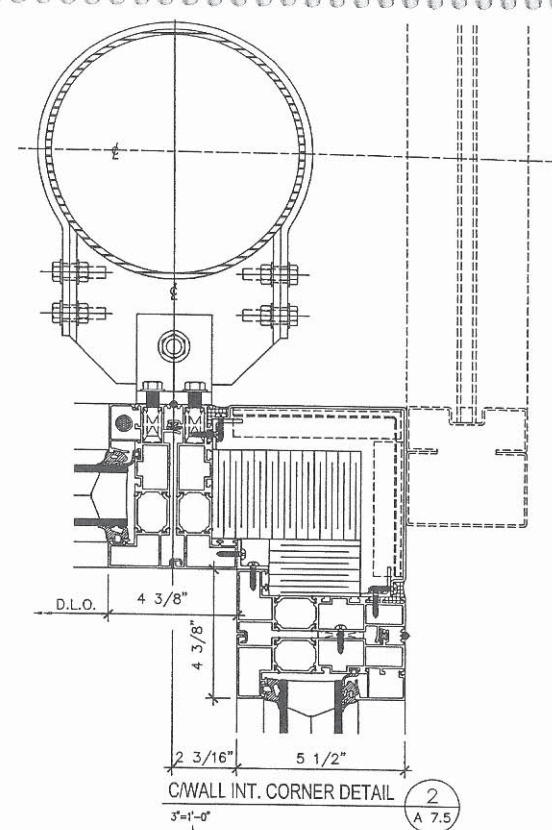
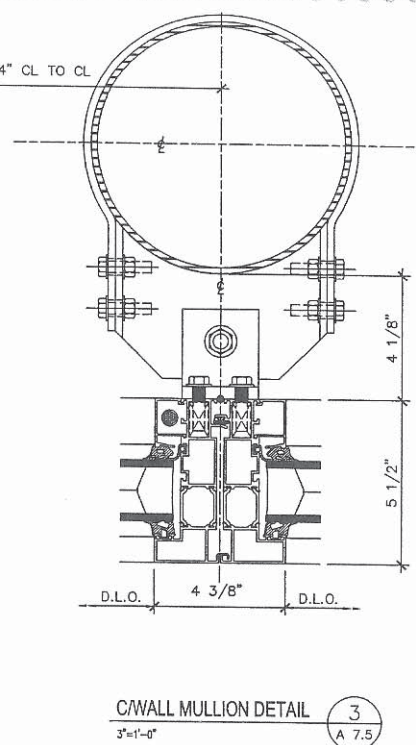
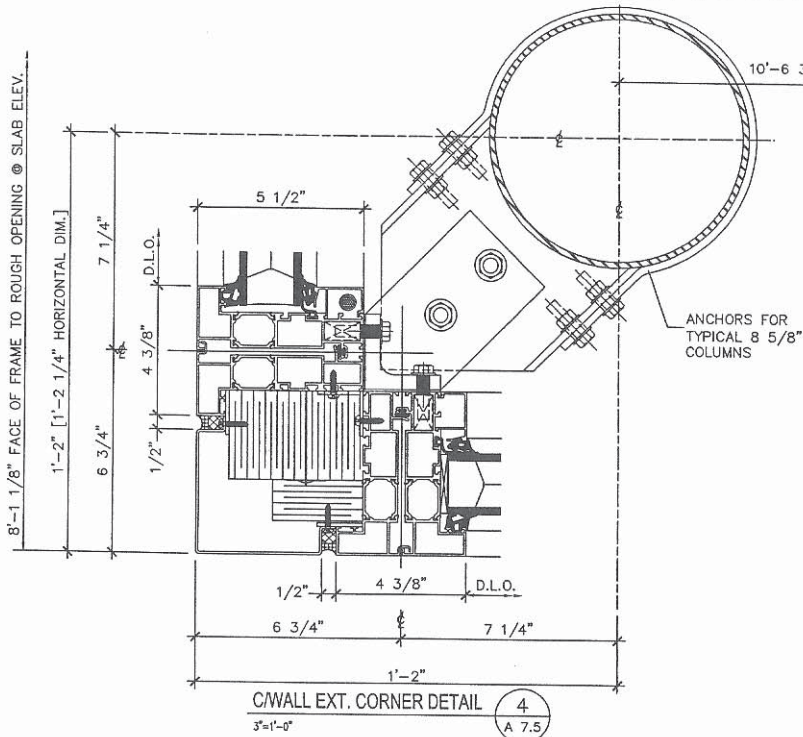
Visionwall Details

Description: Elevations

Scale: AS NOTED

A 7.4

8'-1 1/8" FACE OF FRAME TO ROUGH OPENING @ SLAB ELEV.



NOTE: BUILDING AIR/VAPOUR BARRIER CONNECTIONS ARE NOT SHOWN, DEALERS ARCHITECT OF RECORD TO PROVIDE



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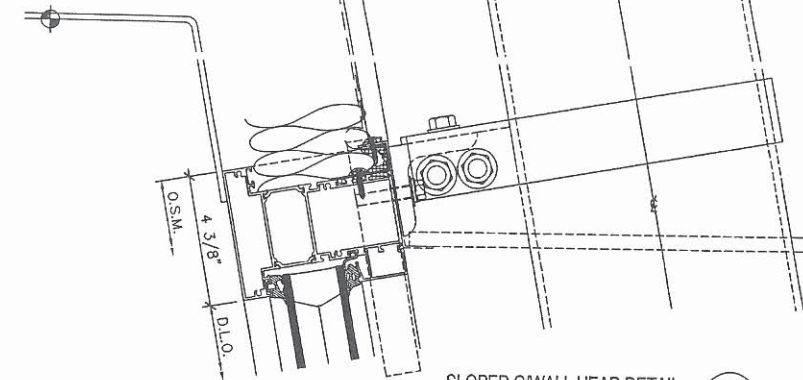
No	Date	Issues and Revisions	By	Check
	10/25/99			

Visionwall Details

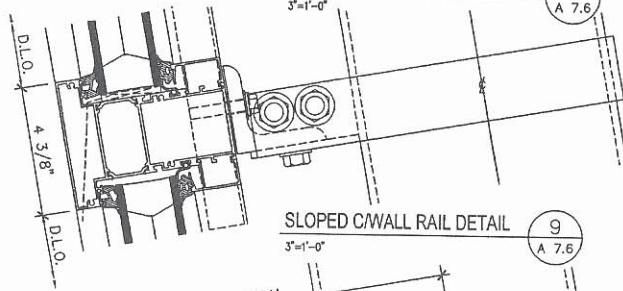
Description: Plan Details

Scale: AS NOTED

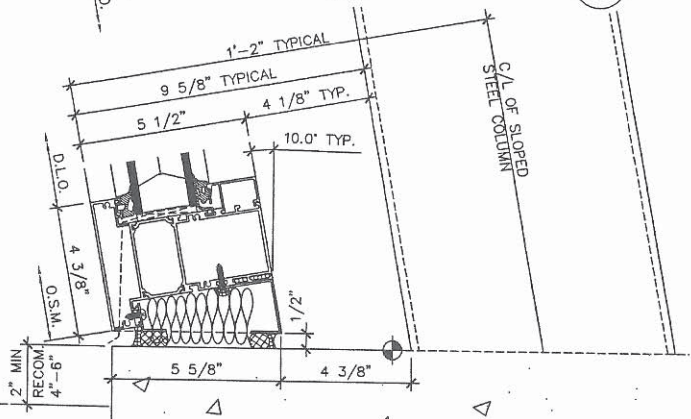
A 7.5



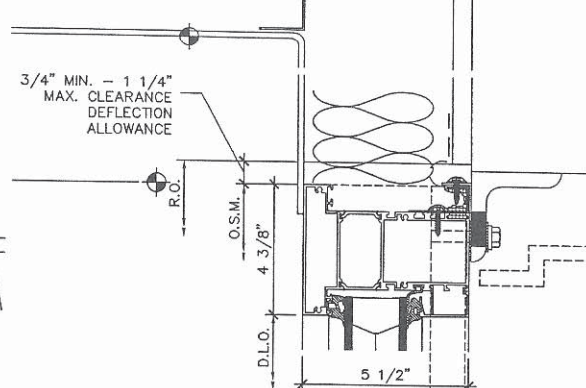
SLOPED C/WALL HEAD DETAIL 10
3'-1'-0" A 7.6



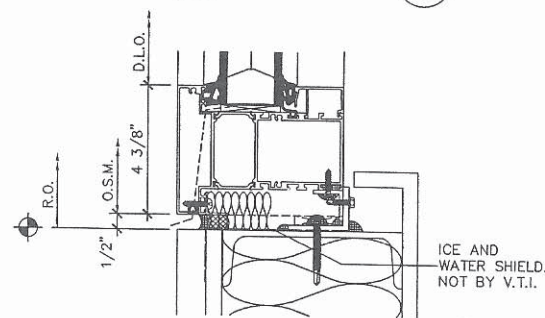
SLOPED C/WALL RAIL DETAIL 9
3'-1'-0" A 7.6



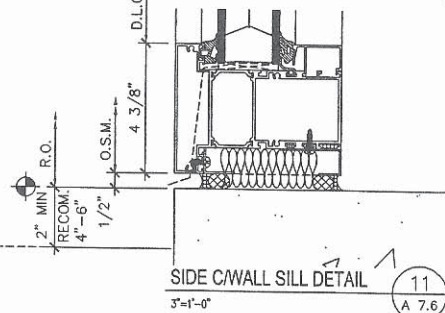
SLOPED C/WALL SILL DETAIL 8
3'-1'-0" A 7.6



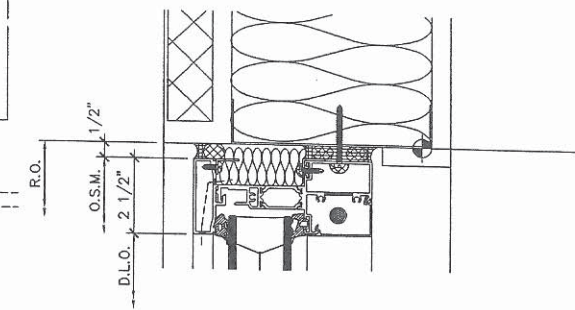
SIDE C/WALL HEAD DETAIL 13
3'-1'-0" A 7.6



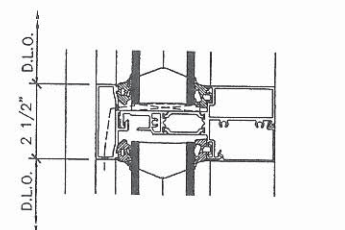
CLERESTORY C/WALL SILL DETAIL 12
3'-1'-0" A 7.6



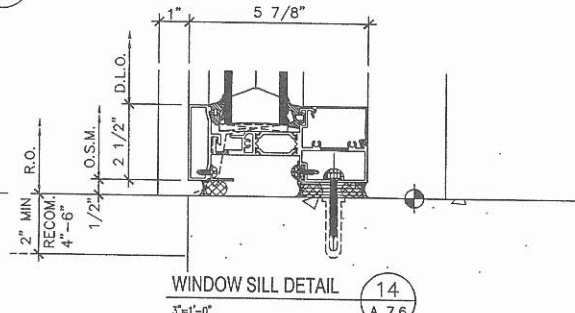
SIDE C/WALL SILL DETAIL 11
3'-1'-0" A 7.6



WINDOW HEAD DETAIL 16
3'-1'-0" A 7.6



INTERMEDIATE RAIL DETAIL 15
3'-1'-0" A 7.6



WINDOW SILL DETAIL 14
3'-1'-0" A 7.6

NOTE: BUILDING AIR/VAPOUR BARRIER CONNECTIONS ARE NOT SHOWN, DEALERS ARCHITECT OF RECORD TO PROVIDE



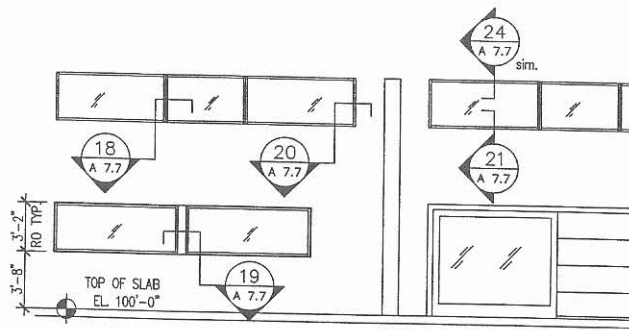
These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check
	10/25/99			

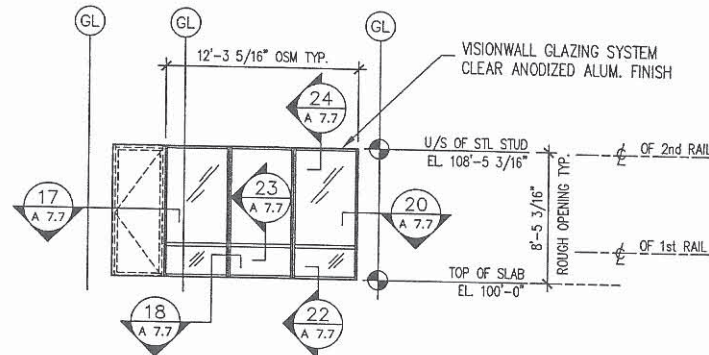
Visionwall Details

Description: Section Details
Scale: AS NOTED

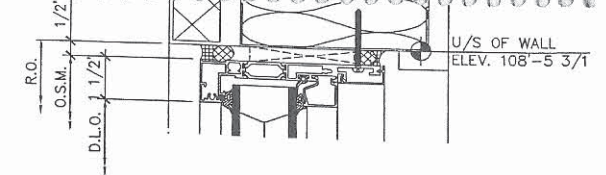
A 7.6



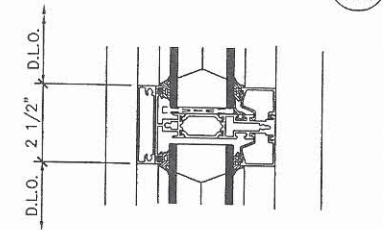
STRIP WINDOWS ELEVATION
1/8"=1'-0"



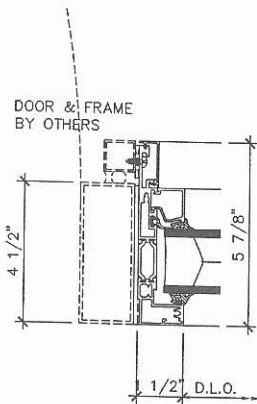
STOREFRONT WINDOW ELEVATION
1/8"=1'-0"



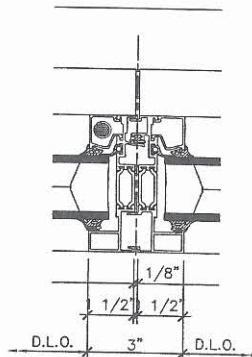
STOREFRONT HEAD DETAIL
3"=1'-0"



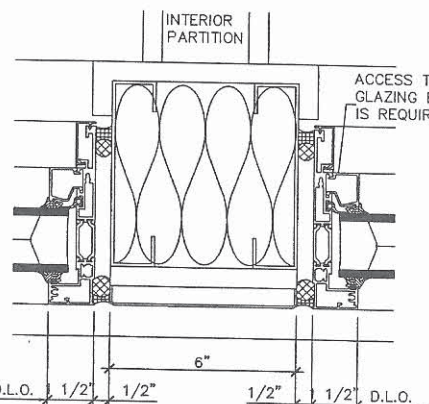
STOREFRONT FACE RAIL DETAIL
3"=1'-0"



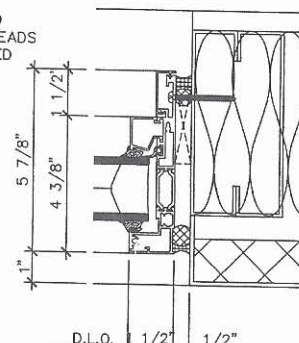
STOREFRONT DOOR JAMB DETAIL
3"=1'-0"



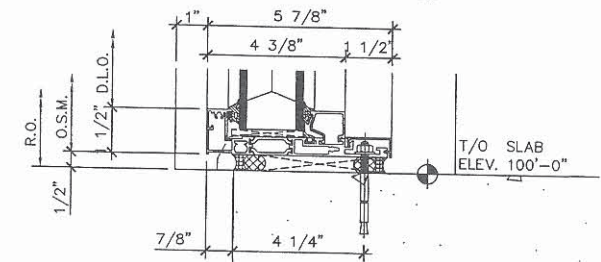
WINDOW MULLION DETAIL
3"=1'-0"



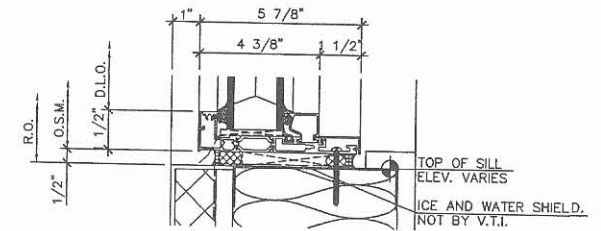
WINDOW PARTITION DETAIL
3"=1'-0"



WINDOW JAMB DETAIL
3"=1'-0"



STOREFRONT SILL DETAIL
3"=1'-0"



STRIP WINDOW SILL DETAIL
3"=1'-0"

NOTE: BUILDING AIR/VAPOUR BARRIER CONNECTIONS ARE NOT SHOWN, DEALERS ARCHITECT OF RECORD TO PROVIDE



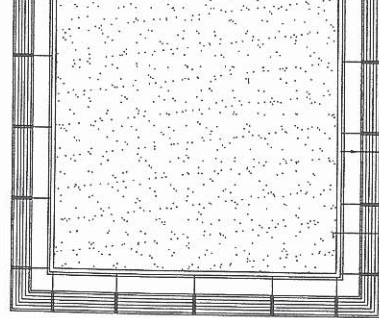
These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check
	10/25/99			

Visionwall Details

Description: Elevations & Details
Scale: AS NOTED

A 7.7

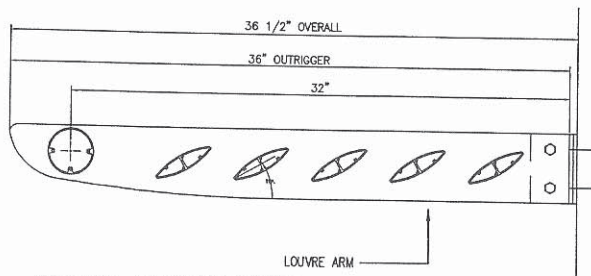


PREFABRICATED ALUMINUM
SUN SHADE. PAINT TO MATCH
METAL PANEL.

1
A-7.8

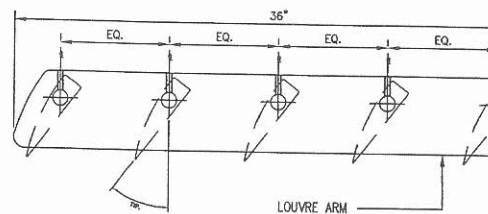
ROOF PLAN

N.T.S.



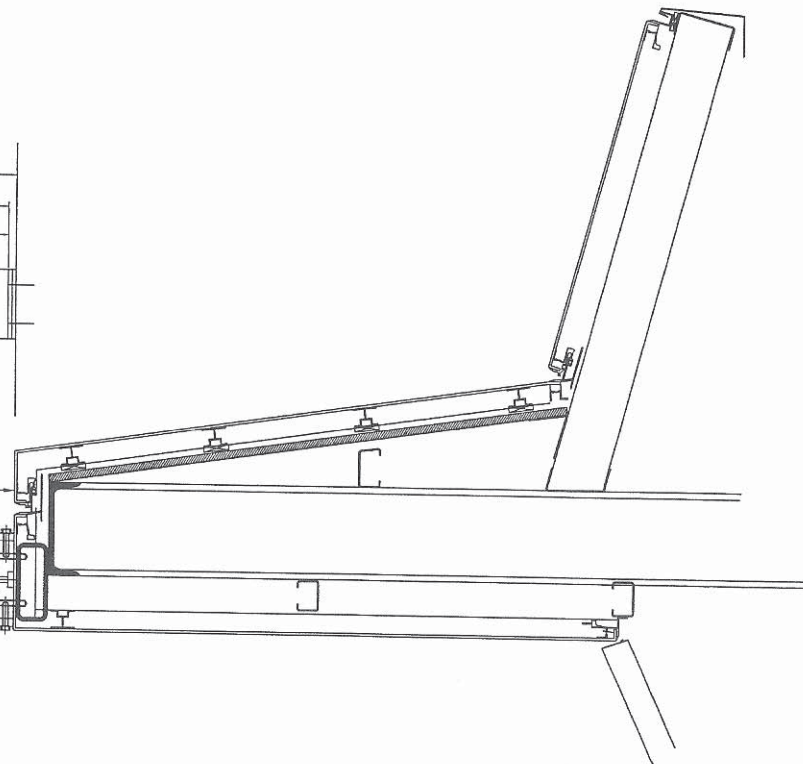
SECTION - LOUVER (AIROLITE)

N.T.S.



SECTION - LOUVER (FORM AND FUNCTION)

N.T.S.



AIROLITE

PO BOX 666
MARIETTA
OHIO 45750-066

Phone:(740)373-7676

FORM AND FUNCTION

PO BOX 31-130
DIAMOND HEIGHTS
SAN FRANCISCO
CALIFORNIA 94131

Phone:(415)285-8740
Fax:(415)285-8786



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No	Date	Issues and Revisions	By	Check
	12/08/99			

Louver Details

Description: Section Detail

Scale: N.T.S.

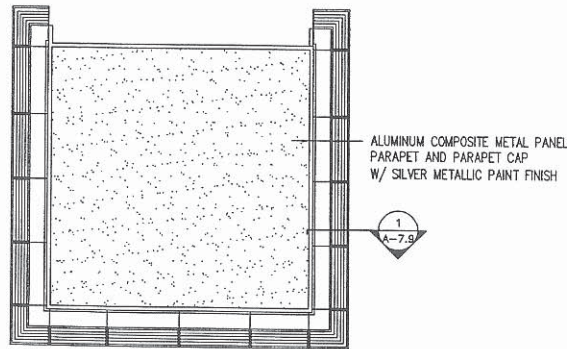
A 7.8

COMPOSITE ALUMINUM PANEL SPECIFICATION

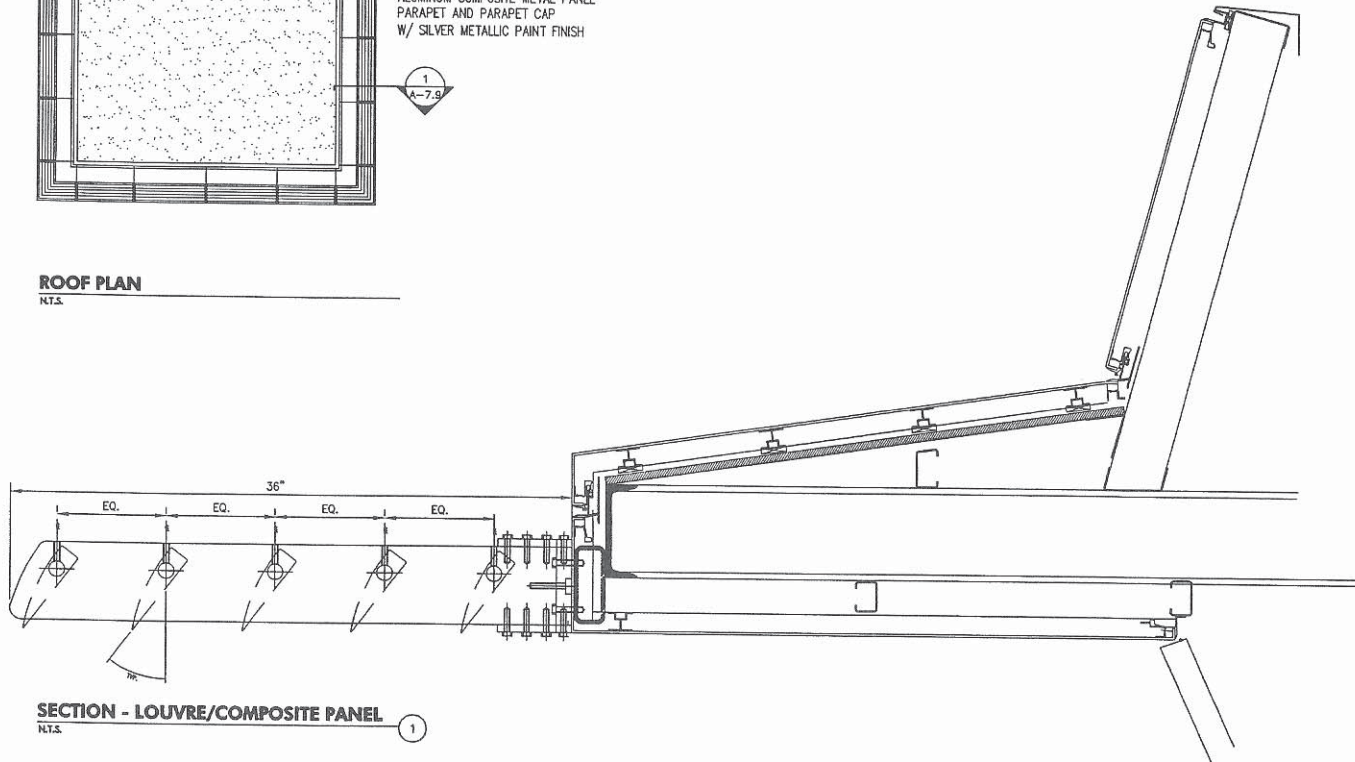
For VOLKSWAGEN SHOWROOMS

Composite Aluminum Panels for wall, roof and soffit areas shall be (no equal) ESC RRD 200 High Performance System manufactured by Elward Systems Corporation, manufactured with materials listed below:

- Aluminum composite sheets shall be 4mm Alucobond produced by Alusuisse Composites Inc., utilizing 0.020-inch aluminum skins bonded to a thermoplastic core without the use of adhesives. The exterior side is to have an Alucobond Alucoat Kynar 500 paint finish with color to be Platinum 1-30-0.
- ESC perimeter extrusions be designed to allow for "free floating" panel installation accommodating thermal movement for an ambient temperature range of +20 deg. F to +180 deg. F. Vertical and horizontal extrusions are to incorporate concealed double weathering gaskets. The horizontal joint extrusions are to have gutter draining provisions, and provide weeping of any water in the gutter to the exterior. Finish of the exposed perimeter extrusions is to be standard black. All panel intermediate extrusions (non-exposed) are to be mill finished. Alucobond edges shall be protected and mechanically fastened in an extruded aluminum pocket.
- Splices are to be made of silicone sheet, shaped as required for condition. Dow #791 silicone sealant is to be used for adhering flexible splice to panel extrusions.
- System performance design is as follows:
 - Air Infiltration Performance - System designed for air infiltration not exceeding .06 cfm per sf of wall area when tested @ 6.24 psf (ASTM E 283-84)
 - Water Infiltration Performance - System designed for no uncontrolled water infiltration when tested at 20psf (ASTM E331-86 static) and (AAMA 501 dynamic)
 - Structural Performance - System is designed to accommodate appropriate building code loading with horizontal supporting member deflection not to exceed L/175 of span. Panels to have been tested to a design load of 45 psf and 67.5 psf (ASTM E330-84)
 - Seismic Performance - System designed to accommodate seismic racking of 2" in both directions and not show any system weathering or structural failure of system deterioration.
 - Composite bond integrity - Must exceed peel strength of 22.5 in lb/in (ASTM D1781-76)
 - Fire Performance - Maximum flame spread = 0 and smoke developed = 0 (ASTM E84-79)
- Fabrication
 - Shop fabricate panels complete, based on CAD generated ESC shop drawings.
 - Bent corner units shall be shop fabricate for easy hand bending in the field.
 - Shop fabricate all mitered corner units to eliminate field cutting and assembly.
 - Provide protective film on Alucobond exterior surface.
- Installation per ESC shop drawings and installation instructions.
- For pricing, details and further information contact ESC, Kirk Smith in Danville, CA at 925-638-5864 (FAX -5866) or ESC in Lakewood, CO at 303-239-8138 (FAX - 8719).



ROOF PLAN
N.T.S.



SECTION - LOUVRE/COMPOSITE PANEL
N.T.S.



ELWARD SYSTEMS CORPORATION

680 HARLAN ST. - LAKEWOOD, COLORADO 80214
Telephone (303) 239-8138 - Fax (303) 239-8719
E-Mail - elward@elward.com - Web Site - <http://www.elward.com>



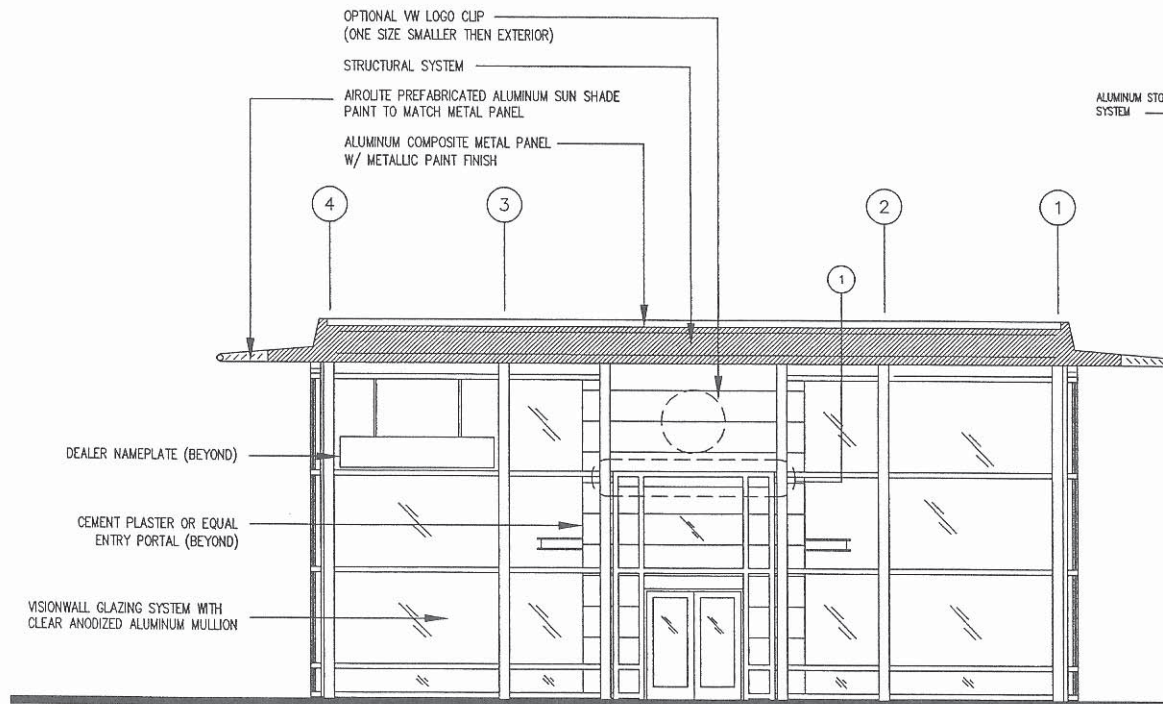
These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check
	11/02/99			

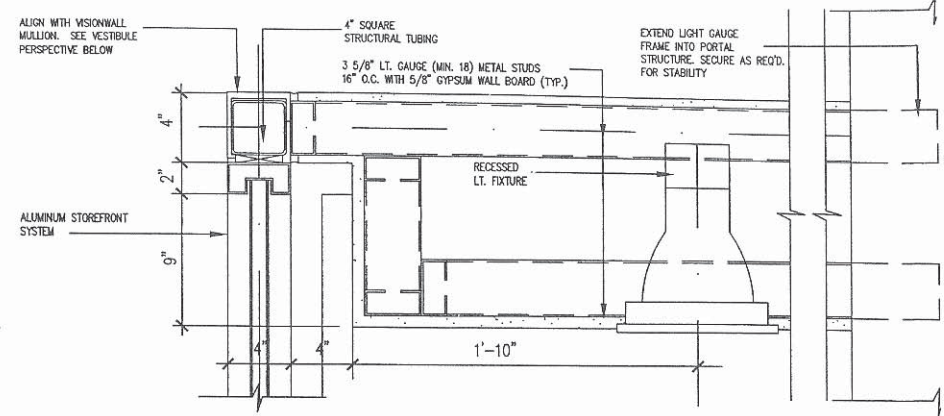
Metal Panel Details

Description: Section Detail
Scale: N.T.S.

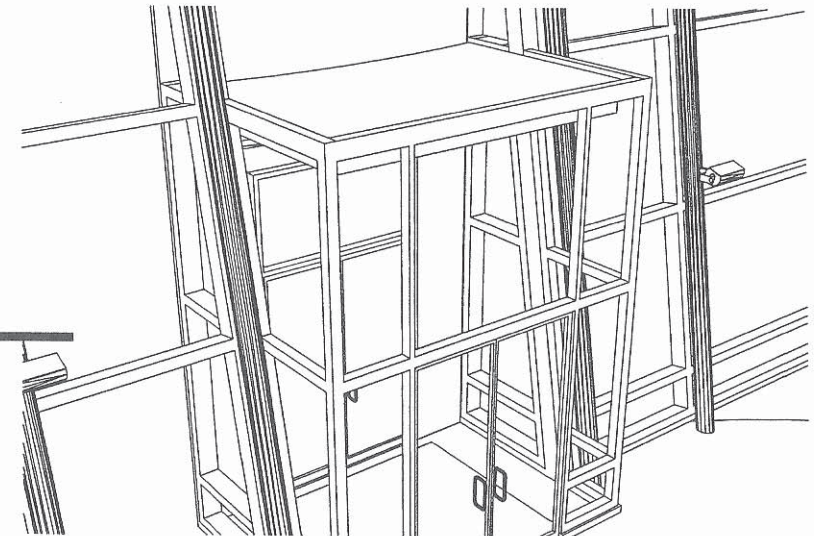
A 7.9



TYPICAL INTERIOR BUILDING SECTION
SCALE: 1/8" = 1'-0"



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



VESTIBULE PERSPECTIVE
NOT TO SCALE



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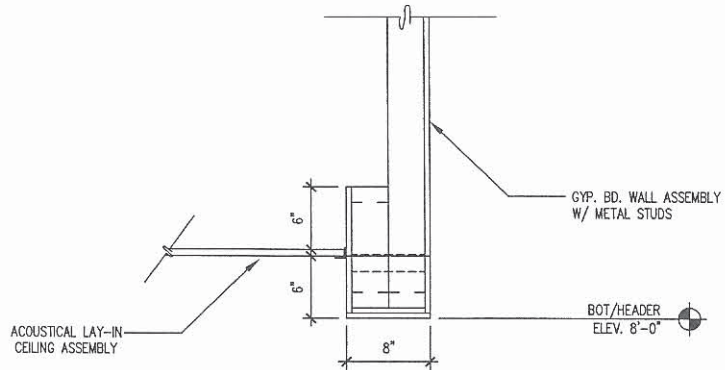
No	Date	Issues and Revisions	By	Check
	08/20/99			

Vestibule Detail

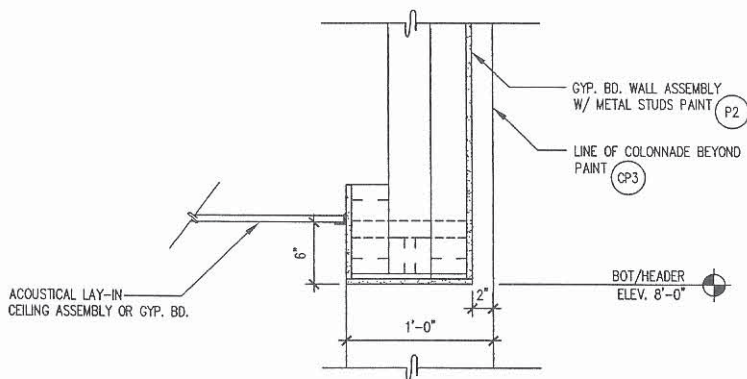
Description: Building Section and Perspective

Scale: As Noted

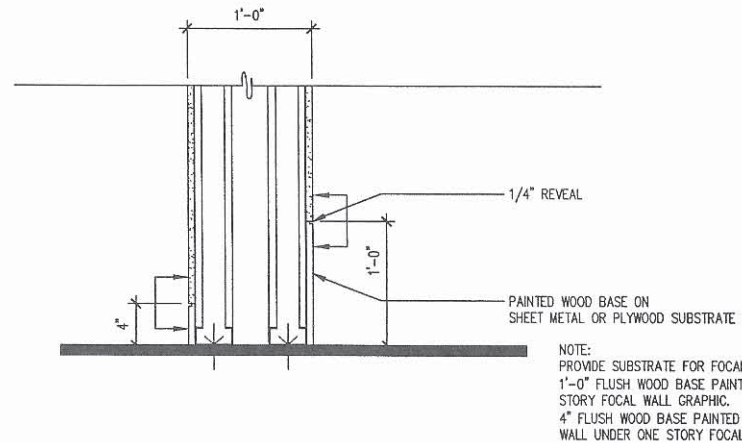
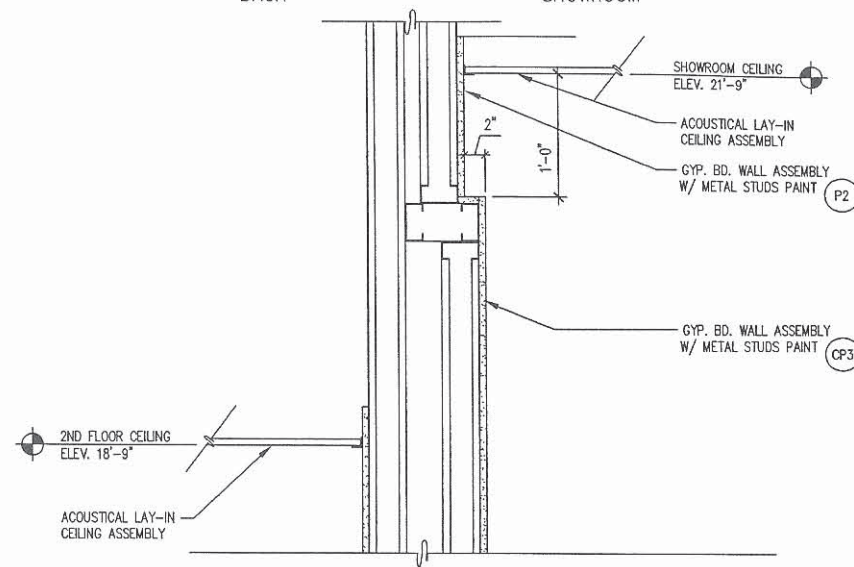
A 7.10



1 SOFFIT DETAIL
SCALE: 1" = 1'-0"



2 HEADER DETAIL AT FOCAL WALL
SCALE: 1" = 1'-0"



NOTE:
PROVIDE SUBSTRATE FOR FOCAL WALL GRAPHIC.
1'-0" FLUSH WOOD BASE PAINTED BLACK UNDER TWO STORY FOCAL WALL GRAPHIC.
4" FLUSH WOOD BASE PAINTED YELLOW TO MATCH FOCAL WALL UNDER ONE STORY FOCAL WALL GRAPHIC.

3 SECTION THROUGH TWO STORY FOCAL WALL
SCALE: 1" = 1'-0"



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No	Date	Issues and Revisions	By	Check
	08/20/99			

Details

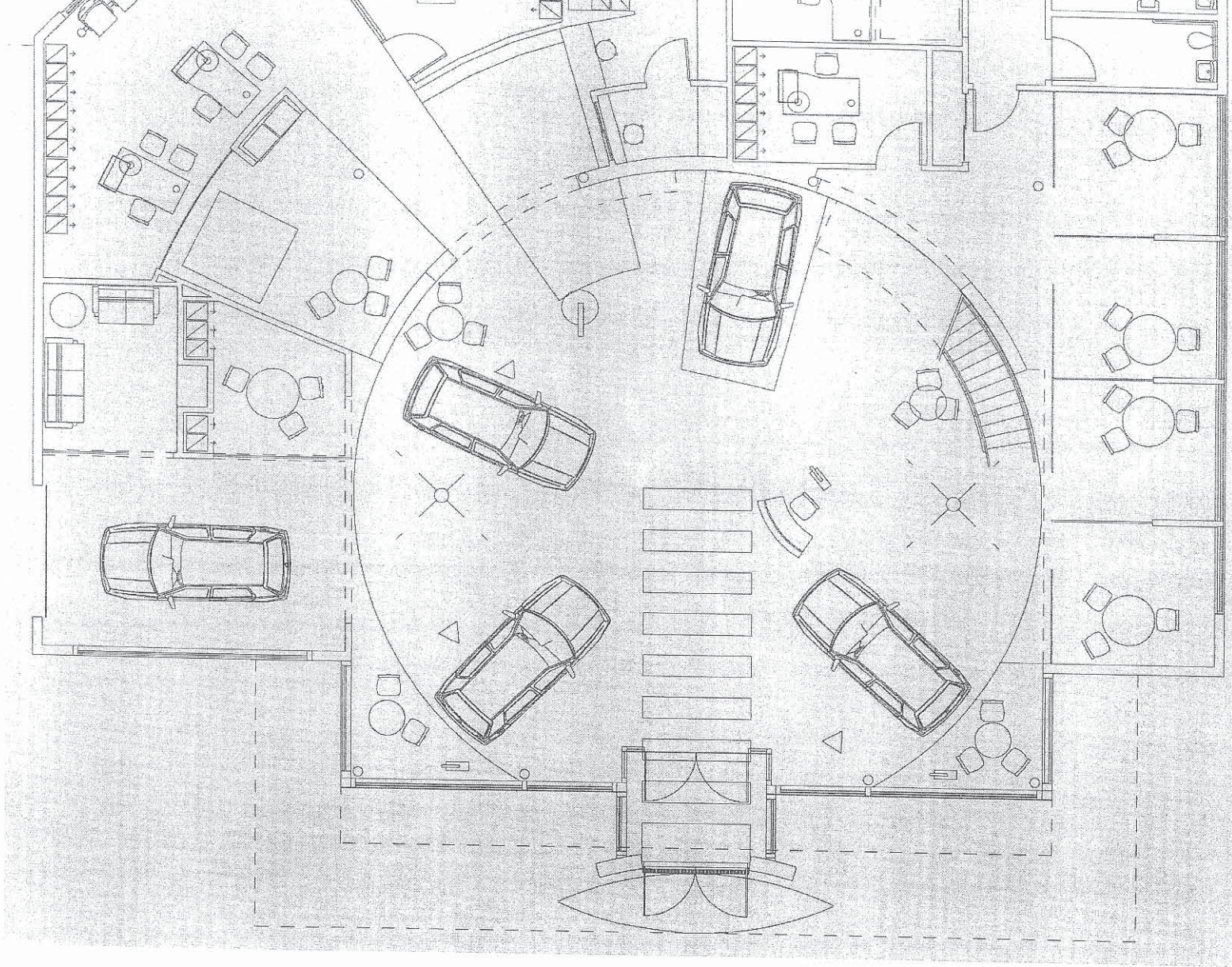
Description:	Details
Scale:	1" = 1'-0"

A 8.1



Materials

Gensler



MATERIALS & FINISH SCHEDULE

		LIGHT COLOR SCHEME			
CODE	MATERIAL	MANUFACTURER	SPECIFICATION		
INTERIORS - GENERAL					
C-1	CARPET (GENERAL)	DUPONT	VW AWP-D (OR ALTERNATE)		
CB-1	VINYL COVE BASE	ROPPE	FUAN		
PT-1	PORCELAIN TILE (EDGE, RETAIL LOUNGE, & NEW CAR DELIVERY)	GRANITI FIANDRE	NAMUR C360		
G-1	GROUT (EDGE, RETAIL LOUNGE, & NEW CAR DELIVERY)	LATICRETE INTERNATIONAL	MOCHA #35		
PT-2	PORCELAIN TILE (PATH)	GRANITI FIANDRE	ROSA MONFORTE R140 SEMI-MATTE		
G-2	GROUT (PATH)	LATICRETE INTERNATIONAL	SAND BEIGE #30		
PT-3	PORCELAIN TILE (SHOWROOM FIELD & SERVICE ENTRY)	GRANITI FIANDRE	JURA C210		
G-3	GROUT (SHOWROOM FIELD & SERVICE ENTRY)	LATICRETE INTERNATIONAL	SMOKE GREY #39		
P-2	PAINT (INTERIOR WALLS)	BENJAMIN MOORE	844 EGGSHELL		
P-3	PAINT SERVICE WALLS (INTERIOR WALLS)	BENJAMIN MOORE	1590		
P-4	PAINT SERVICE WALLS-6" BASE (INTERIOR WALLS)	BENJAMIN MOORE	1599		
P-5	PAINT (COLUMNS)	VANEX COATINGS - BREAK THROUGH SATIN 50 SERIES	TINTED TO MATCH ICI 646 SILVER CLOUD		
AC-1	ACOUSTIC CEILING PANEL (GENERAL)	ARMSTRONG	FINE FISSURED RRM90 BEVELED REGULAR LAY-IN 1734		
PL-2	PLASTIC LAMINATE (COUNTERTOP TOP AND SIDE)	PIONITE	ACADIA BEECH WG101-S (TOP OF COUNTER) CHARCOAL CHROMATIX AEO11-J (SIDE OF COUNTER)		
H-1	HARDWARE	***	BRUSHED ALUMINUM		
CP-3	FOCAL WALL	BENJAMIN MOORE	333 EGGSHELL		
RESTROOMS					
PT-3	PORCELAIN TILE (RESTROOM FLOOR)	GRANITI FIANDRE	JURA C210		
G-3	GROUT (RESTROOM FLOOR)	LATICRETE INTERNATIONAL	SMOKE GREY #39		
CT-1	CERAMIC TILE (RESTROOM WALL)	SUMMITVILLE	ARCTIC WHITE BRIGHT GLAZE NR3		
G-4	GROUT (RESTROOM WALL)	LATICRETE INTERNATIONAL	BRIGHT WHITE #44		
P-1	PAINT (RESTROOM)	BENJAMIN MOORE	844 SEMI GLOSS		
PL-1	PLASTIC LAMINATE (RESTROOM COUNTERTOP)	FORMICA	WHITE 949 MATTE		
F-1	FIXTURES (RESTROOM)		WHITE		
EXTERIOR					
CP-1A	PORTAL ENTRY (CEMENT PLASTER OR EQUAL)	STO	20103/STOCO M FINISH (OR ALTERNATE)		
CP-1B	PORTAL ENTRY (CEMENT PLASTER OR EQUAL)	STO	20105/STOCO M FINISH (OR ALTERNATE)		
CP-2	BUILDING SHELL (CEMENT PLASTER OR EQUAL)	STO	WHITE LINEN 6050/ STOCO LIT .75		
CW-1	CURTAINWALL MULLION	YSONWALL	CLEAR ANODIZED ALUMINUM		
PP-1	PAINT (METAL CANOPY)	PPG	DURANAR UC70476XL SPRAY CODE (OR ALTERNATE)		
MP-1	METAL PANEL SOFFIT	ALUCOBOND	PLATINUM 52M99873 COIL CODE		
CP-4	PORTAL ENTRY (CEMENT PLASTER OR EQUAL)	STO	21612/STOCO M FINISH		

ALTERNATE LIST

CP-1A

MANUFACTURER: TO BE APPROVED BY VOLKSWAGEN OF AMERICA
COLOR: COLOR MATCH (BENJAMIN MOORE - 338)

CP-1B

MANUFACTURER: TO BE APPROVED BY VOLKSWAGEN OF AMERICA
COLOR: COLOR MATCH (BENJAMIN MOORE - 339)

C-1

MANUFACTURER: DUPONT
COLOR: VW AWP-C

PP-1

MANUFACTURER: PPG ARCHITECTURAL FINISHES
COLOR: MEGAFLOX UMS-SERIES
MATCH TO UC70476XL

OPTIONAL ADD

F-1

MANUFACTURER: JM IMAGE GRAPHICS
COLOR: DUSTED CRYSTAL 7725-314
REP: CINDY VOGEL
800 947-5722

MS-1

MANUFACTURER: MECHOSHADE SYSTEMS
COLOR: PEARL GREY 5308
REP: GUY MURNIG
415 641-7272



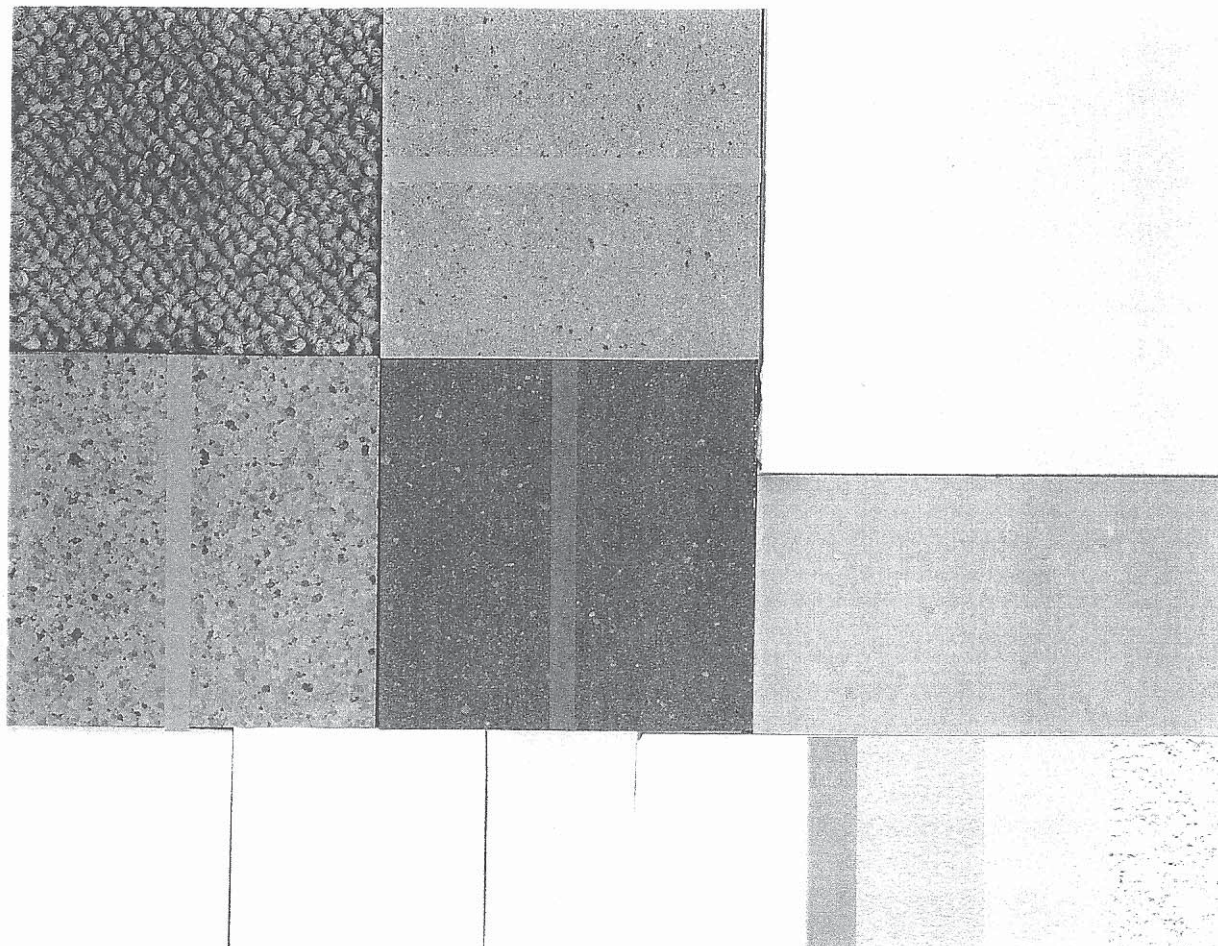
These drawings are for communication of design intent only. These drawings are not suited or intended for construction or fabrication.

No	Date	Issues and Revisions	By	Check
	10/21/99			

Warm Palette

Description: Materials and Finish Schedule
Scale: N.A.

M 2.1



C-1	PT-3/G-3	CP-3					
PT-2/G-2	PT-1/G-1	MP-1/PP-1					
CT-2	PL-1	CB-1	P-1, 2	PP-1	CP-1A	CP-1B	CP-2

- C-1** Carpet General
- PT-3** Porcelain Tile Showroom Field & Service Entry
- G-3** Grout Showroom Field & Service Entry
- PT-2** Porcelain Tile Path
- G-2** Grout Path
- PT-1** Porcelain Tile Retail, Highlight, Front Edge & Delivery
- G-1** Grout Retail, Highlight, Front Edge, & Delivery
- MP-1** Metal Panel Soffit
- MP-2** Metal Panel Portal Cap
- PP-1** Paint Columns, Metal Stairs, Umbrella Columns
- CT-2** Ceramic Tile Restroom Wall
- PL-1** Plastic Laminate Counter-top
- CB-1** Vinyl Cove Base
- P-1** Paint Bathrooms, Underside of Service Bay
- P-2** Paint Interior Walls
- CP-1A** Entry Portal
- CP-1B** Entry Portal
- CP-2** Building Facade
- CP-3** Focal Wall Curved Showroom Wall



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No	Date	Issues and Revisions	By	Check

Warm Palette - Light

Description:

Scale: NONE

M 3.1

FINISHES

Form and Function
5160 Diamond Heights Blvd
Apt. C 208
San Francisco, 94131 415 285-8740
Andrey Kurylo

Alucobond
Elward Systems Corporation
609 St. George Road
Danville, CA 94526-6231
925-838-5864
S. Kirk Smith

Benjamin Moore
1000 Walsh Avenue
Santa Clara, CA 95050
800-832-8222
Connie Burd

Dupont Flooring Systems / Roppe
35801 Mound Road
Sterling Heights, MI 48310
810-795-1800 ext. 126
Mike Grondin

Formica Corporation
3500 Cincinnati Avenue
Sunset Whitney Ranch, CA 95765
916-645-0390
Liesl Heil (415-956-7742)

Graniti Fiandre
CAPCO
1159 West Bryn Mawr
Itasca, IL 60143
800 828-9074
Amy Willard, Maria Connors
For Technical Issues Contact
John Forewell 800 668-1537

Laticrete International Inc.
1 Laticrete Park North
Bethany, CT 06524-3423
800-243-4788

Mechoshade Systems Inc.
1385 Fairfax Ave. Unit A
San Francisco, CA 94124
415-641-7272
Fax: 415-641-7449
Guy Murnig

Pionite
One Pionite Rd.
Auburn, Maine 04210
207-784-9111
Fax: 207-784-0392

PPG Architectural Finishes, Inc.
1 PPG Place
Pittsburg, PA 15272
800-238-8596
For Technical Issues Contact
Glen Fuller 860-274-6701

Sto Exterior Stucco Finish
Customer Service
3800 Camp Creek Parkway
Bldg. 1400
Suite 120
Atlanta, GA 30331
800-786-4430

Summitville Tile
PO Box 73
Summitville, OH 43962
330-223-1511
Peter Johnson

Visionwall Technologies, Inc.
#110, 14904 - 123 Avenue
Edmonton Alberta
Canada t5v 1B4
800-442-4698
Robert Merther

Vanex Coatings
1700 South Shawnee St.
Mt. Vernon, IL 62864
323-263-2500
Bob Poindexter

LIGHTING

Capitol Light
270 Locust Street
Hartford, CT 06141-0179
800-965-1230
Gina Lauzier

FURNITURE

Steelcase International
NBS Contract Group
158 South Main Street
Mt. Clemens, Michigan
1-800-515-3337 ext. 165
810-493 0490
Mike Haldane



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No	Date	Issues and Revisions	By	Check
	11/02/99			

Material / Finish Contacts

Description:

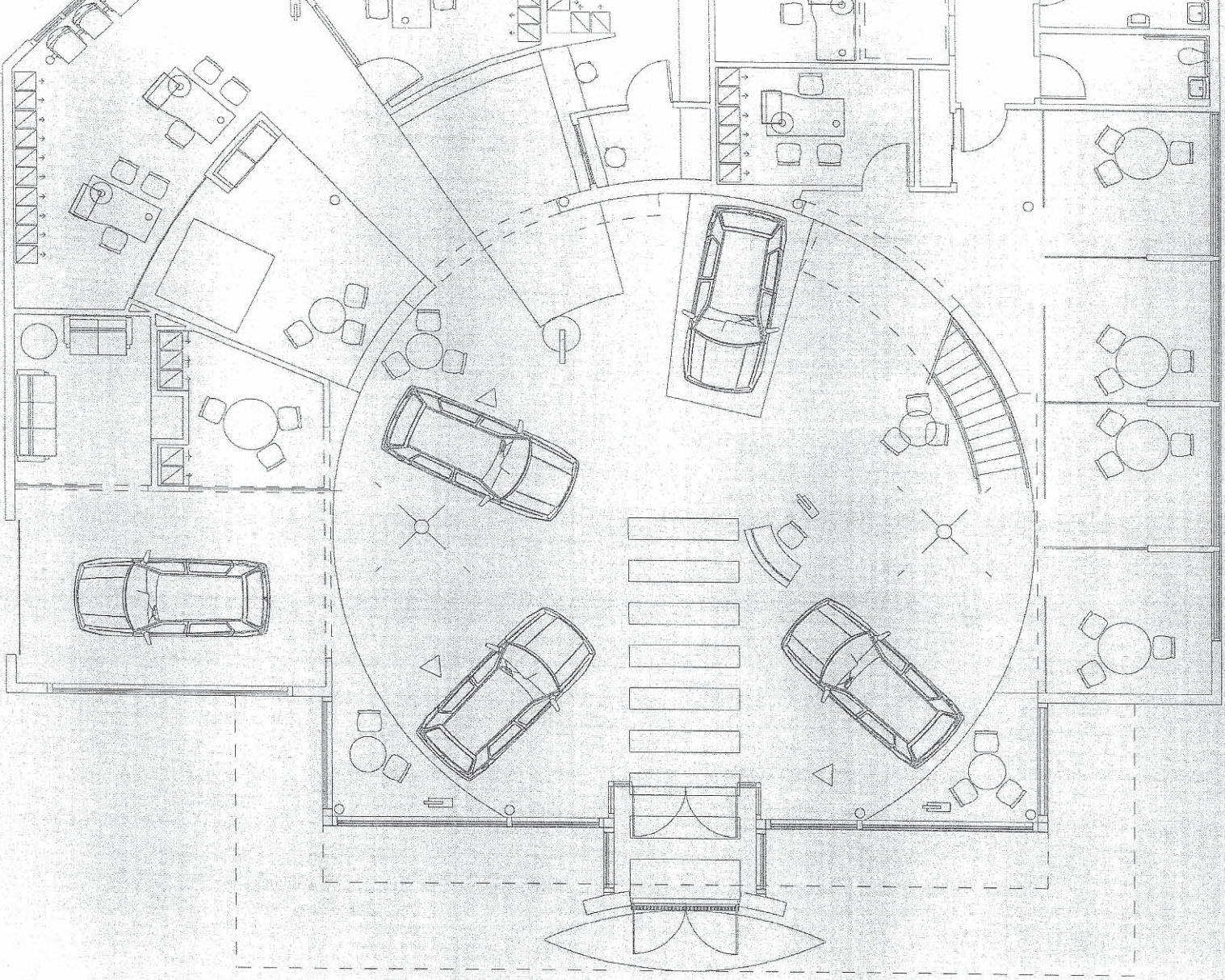
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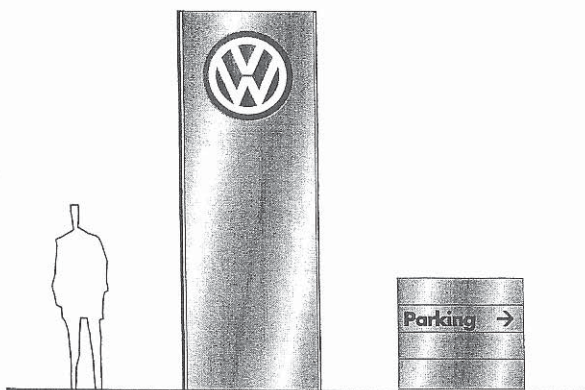
M 4.1



Graphics

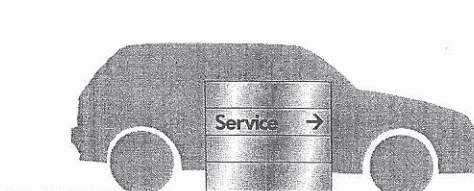
Gensler



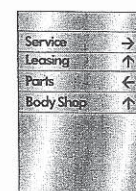


SE-01 Primary Pylon Sign
Primary site identification signage located at primary frontage, height variable contingent on local ordinance, internally-illuminated or non-illuminated, dealer's option

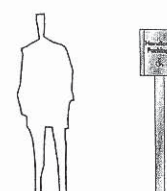
SE-02 Entrance Directional Sign
Directional signage at primary auto entries, internally-illuminated or non-illuminated, dealer's option



SE-03 Service Entrance Directional Sign
(Same as SE-02)
internally-illuminated or non-illuminated, dealer's option



SE-04 Secondary Directional Sign
Directional signage at secondary auto intersections, non-illuminated



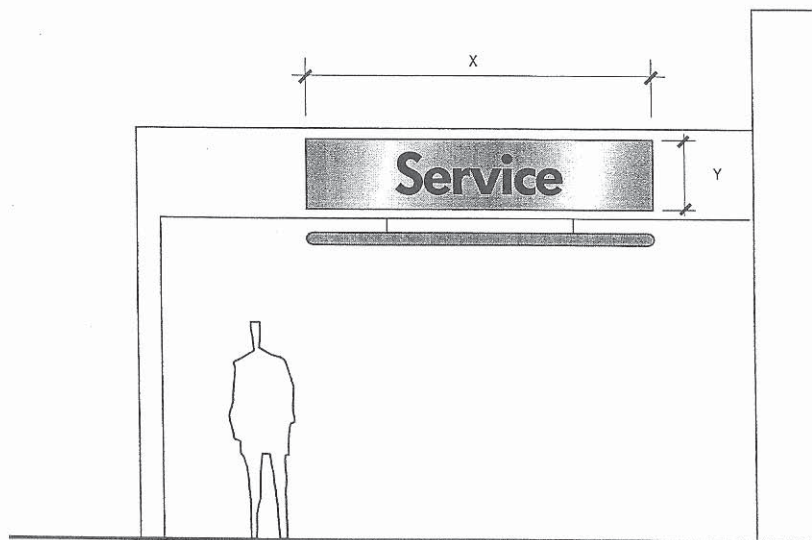
SE-31 Regulatory Sign
Signage for retail property indicates customer zones handicap parking, etc. Dealer may select appropriate copy.



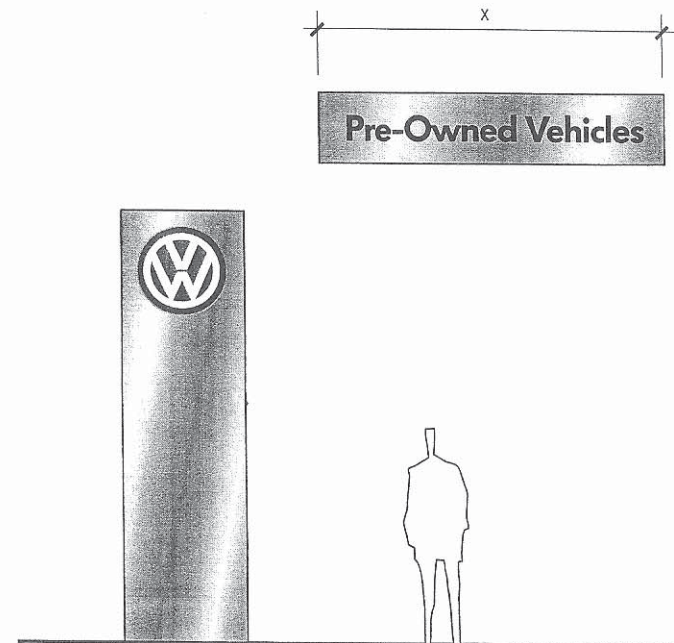
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Exterior Site Identification and Directional Signage

G2.1



SE-11 Service Nameplate #1
Size #1 service identification nameplate mounted to face of service entry canopy



SE-09 Pylon #2
Pylon #2 positioned as required to identify pre-owned vehicles sales office when separate building

SE-12 Pre-Owned Wall Sign #1
Size #1 wall nameplate sign mounted to sales office main entry facade, when separate building



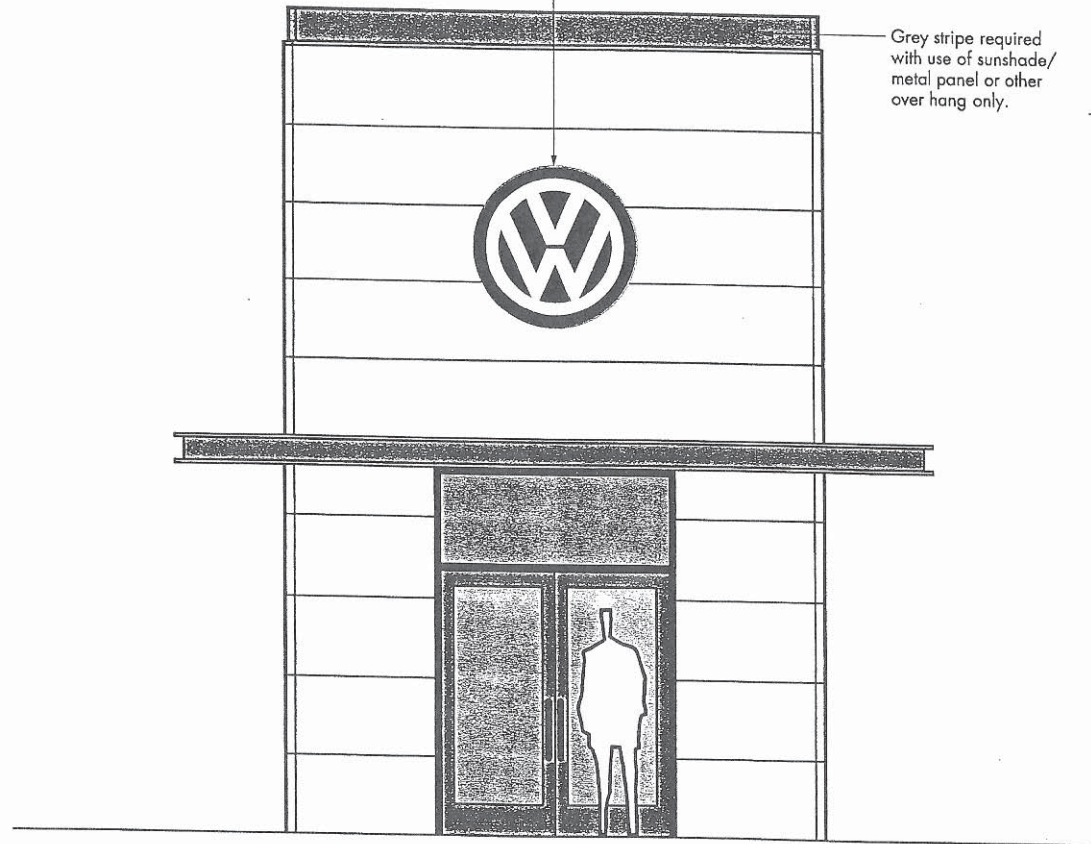
These drawings are for communication of design intent only.
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Service/Pre-Owned Vehicles Nameplates

G2.2

SE-08 #2 or #3 Clip Sign
diameter variable
contingent on portal height
and local ordinance

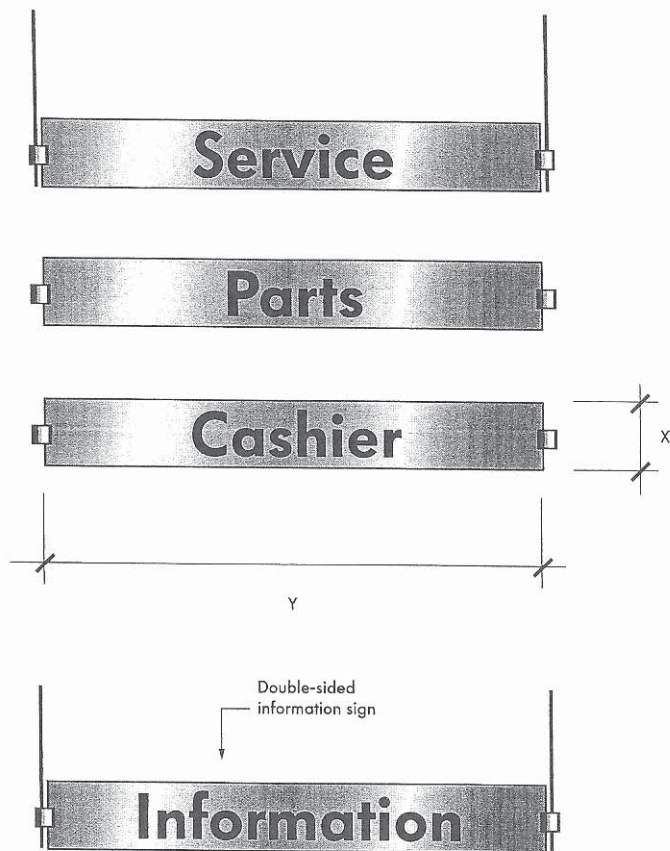
Grey stripe required
with use of sunshade/
metal panel or other
over hang only.



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Generic Portal Entry

G2.3



SUSPENDED DEPT. SIGNS



WALL-MOUNTED DEPT. SIGNS

SE-17 Interior Department ID Sign

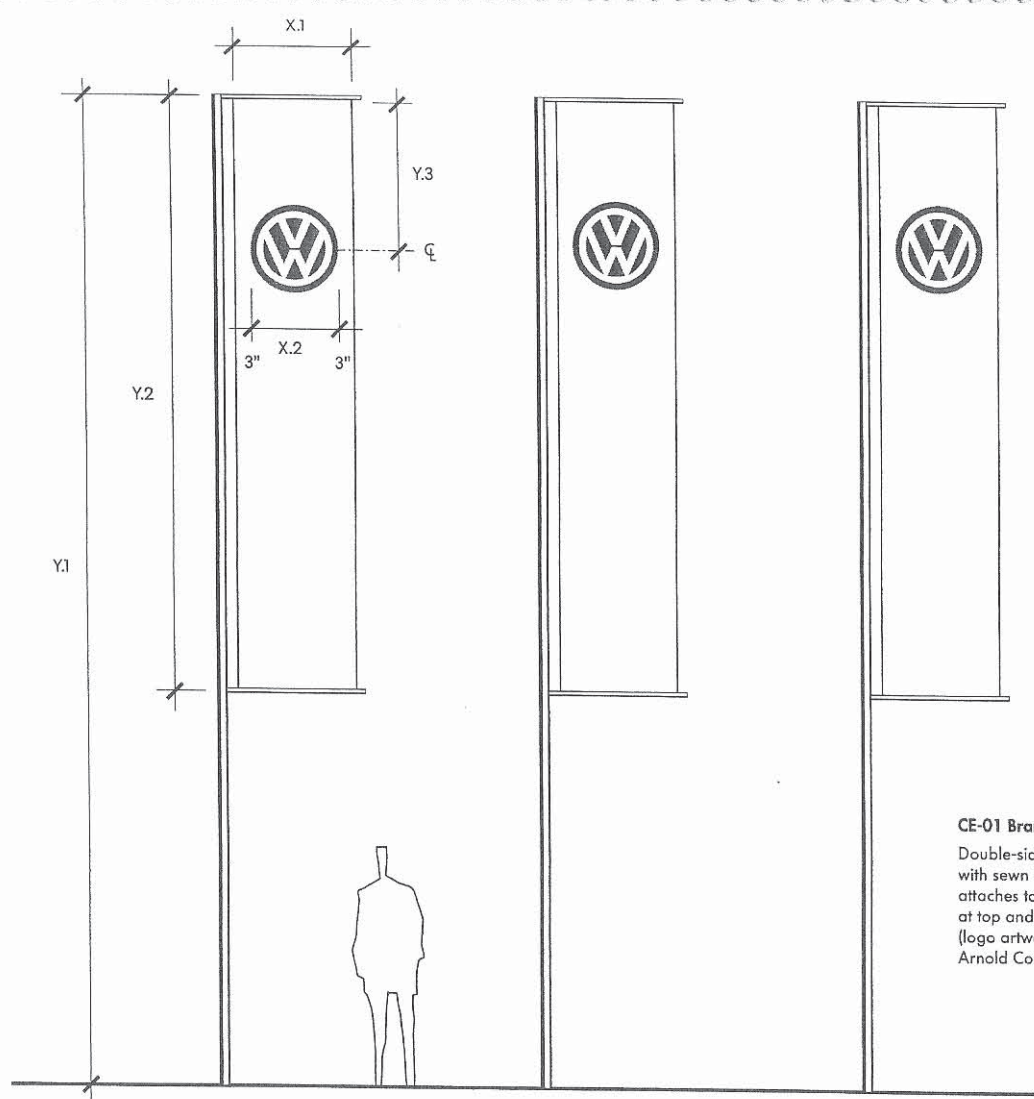
Single/double-sided aluminum sign panels with 4 1/4" cap height vinyl typography, suspended from architecture with mobile cable assembly rods/fittings, or mounted to wall with brackets at end of sign, sign panel stands off wall surface 1/2"; bottom of suspended signs must be at least 80" from finished floor (message artwork provided by Arnold Communications)



These drawings are for communication of design intent only.
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Interior Department Identification

G2.4



CE-01 Brand Banner/Pole

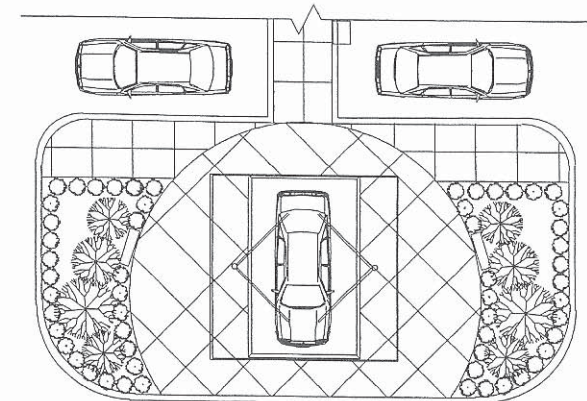
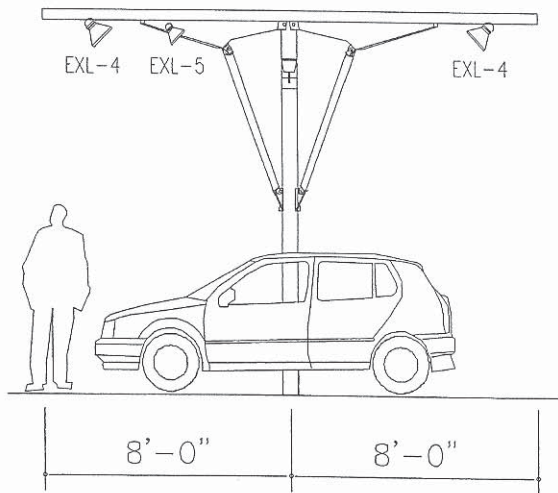
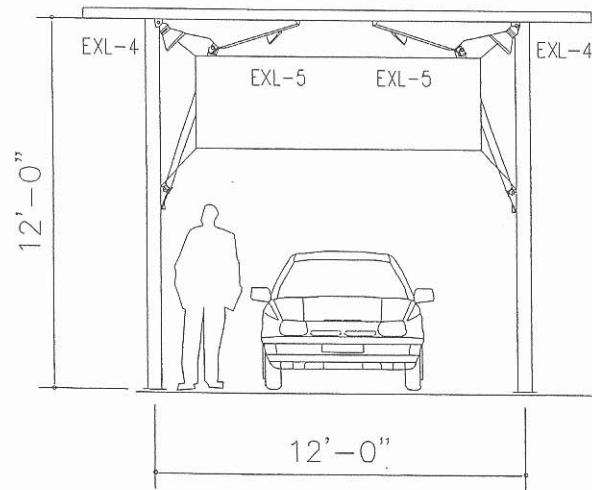
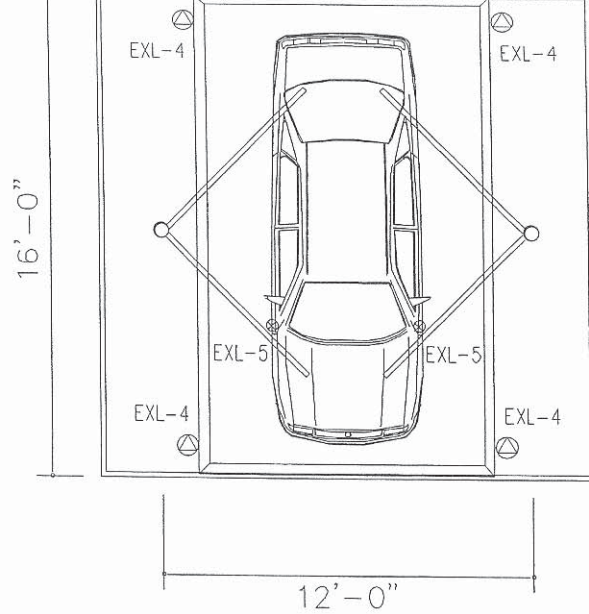
Double-sided white nylon banner
with sewn or screen-printed logo
attaches to pole horizontal bars
at top and bottom of banner
(logo artwork provided by
Arnold Communications)



These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Brand Banners/Poles

G3.1



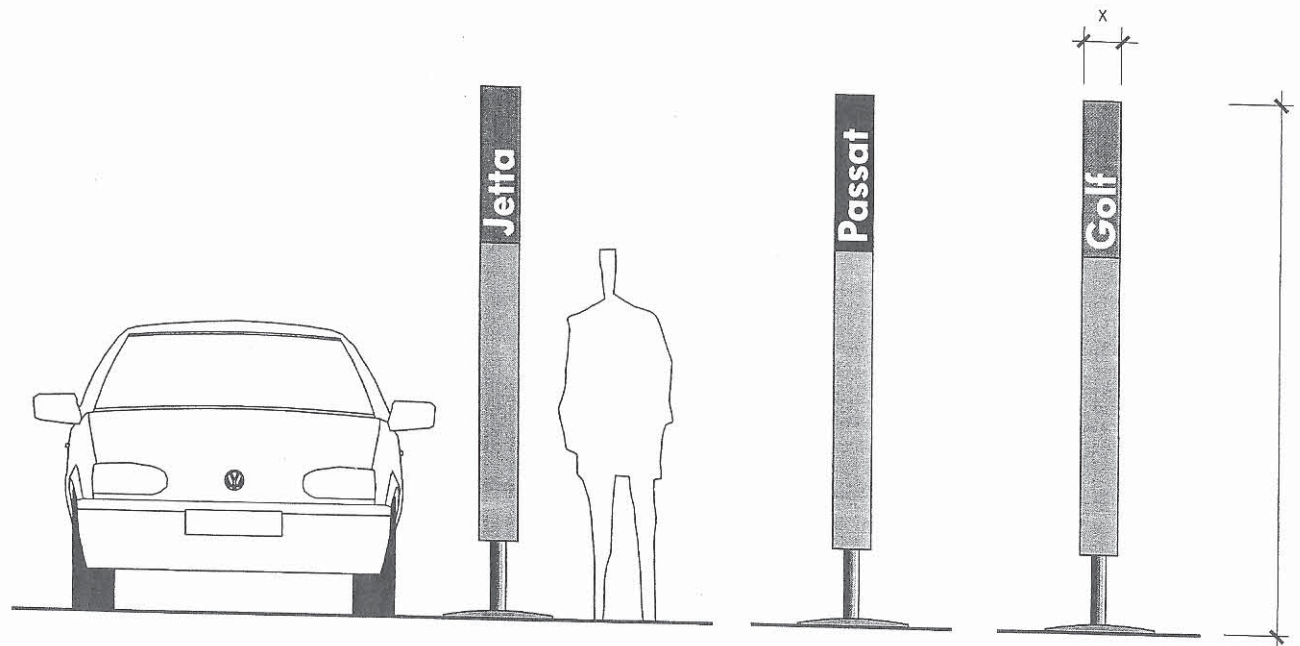
These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Exterior Canopy

G3.2



Plan View



CE-05 Exterior Product Pylons/New Cars
Three-sided fabricated aluminum trilon,
painted and vinyl graphics, painted steel pole
and base (graphics, color and messaging
provided by VW/Arnold Communications)



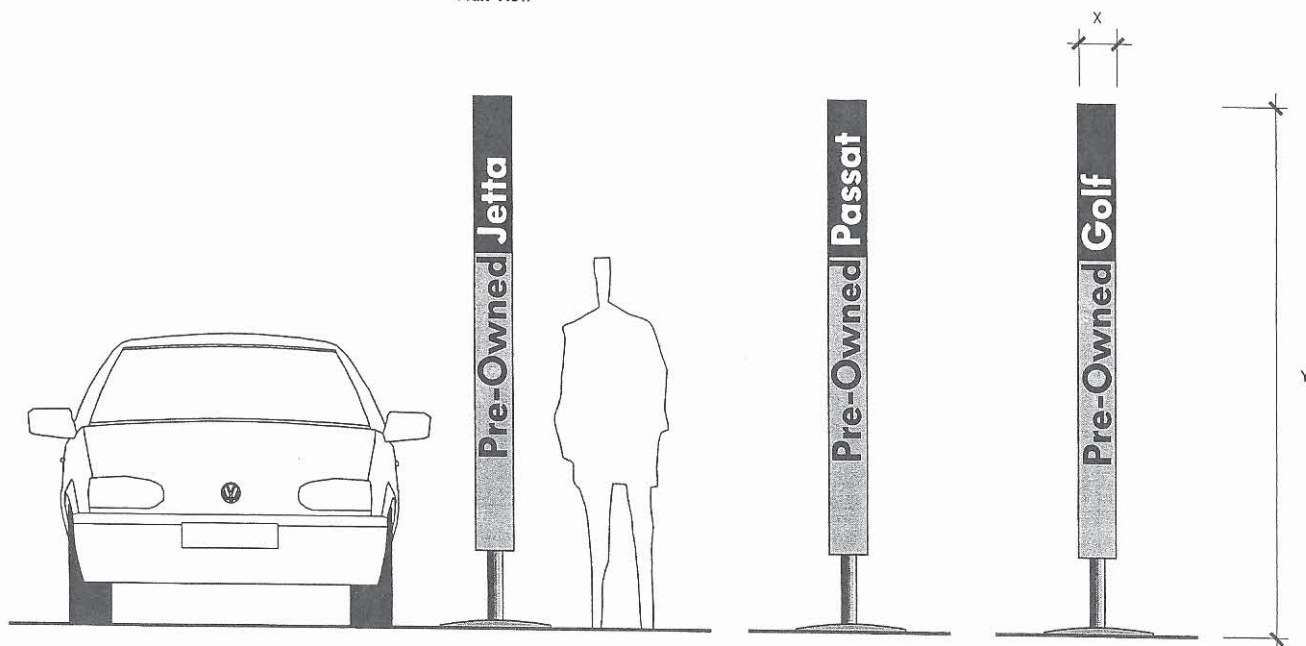
These drawings are for communication of design intent only.
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Exterior Product Pylons/New Cars

G3.3



Plan View



CE-06 Exterior Product Pylons/Pre-Owned Cars

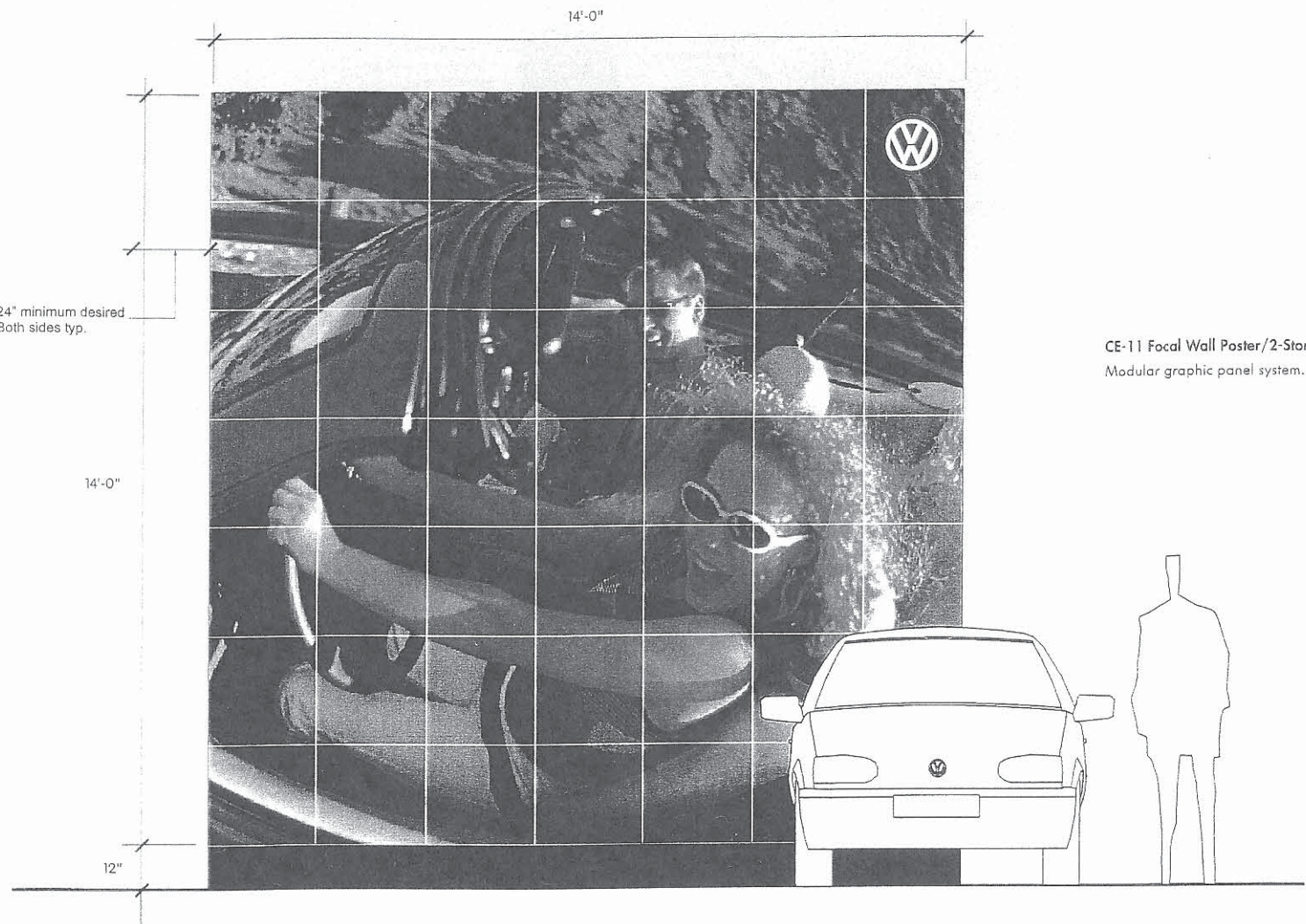
Three-sided fabricated aluminum trilon, painted and vinyl graphics, painted steel pole and base (graphics, color and messaging provided by VW/Arnold Communications)



These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Exterior Product Pylons/Pre-Owned Cars

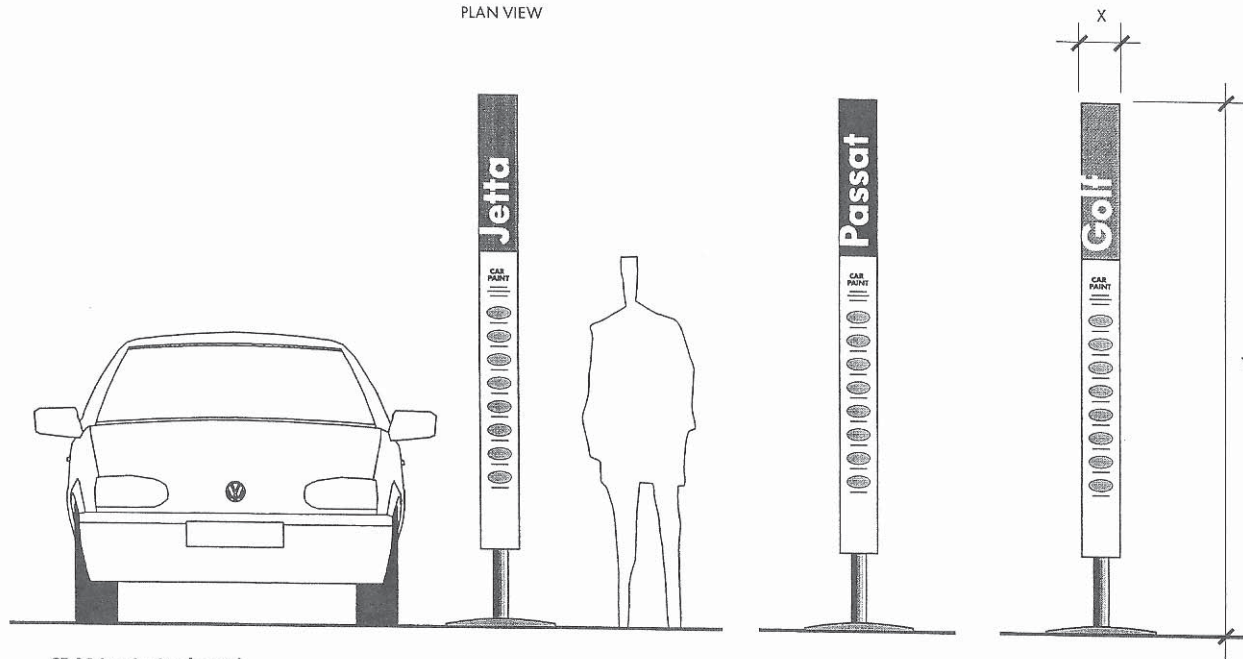
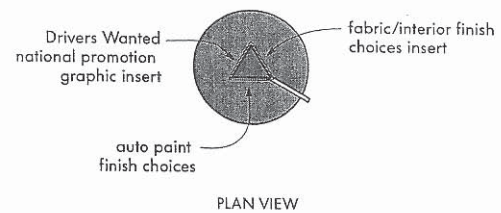
G3.4



These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Focal Wall Poster/2-Story

G3.5



CE-12 Interior Product Pylons

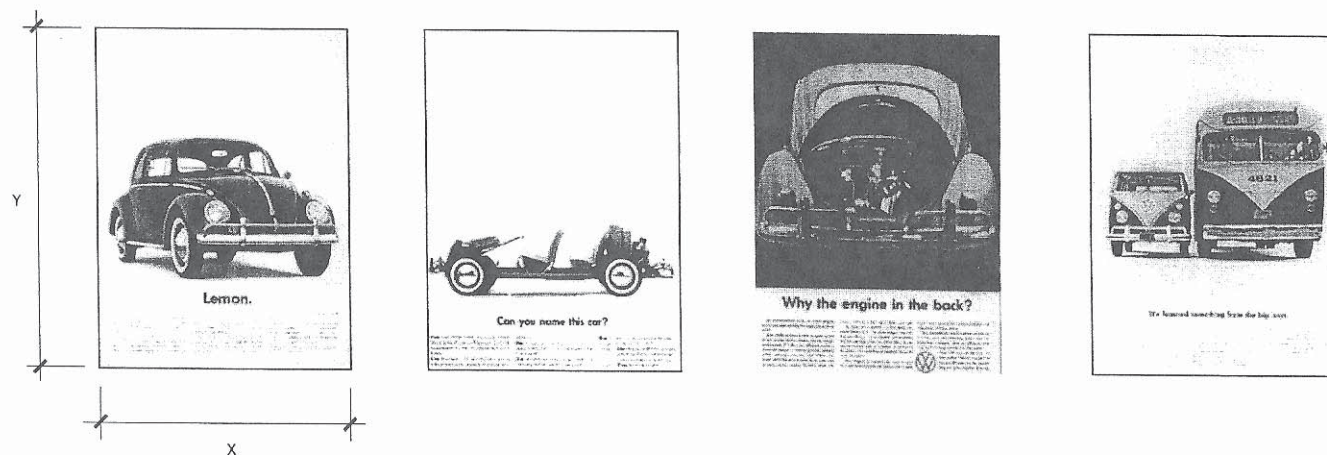
Fabricated, three-sided aluminum trilon with painted header and vinyl sub brand ID typography, painted steel pole and base; channels along vertical edges accept changeable printed car information panels, double-sided clip-on information panel, attaches to one edge of pylon, can be printed card or brochure holder (artwork provided by VW/Arnold Communications)



These drawings are for communication of design intent only.
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Interior Product Pylons

G3.6



CE-07 Poster Assemblies

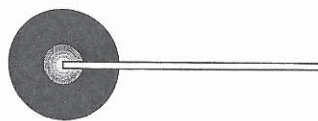
Rigid, single-sided poster panels attach to wall and stair railing with clear anodized aluminum brackets; wall-mounted posters float off wall 3"; four posters per assembly typical (artwork provided by VW/Arnold Communications)



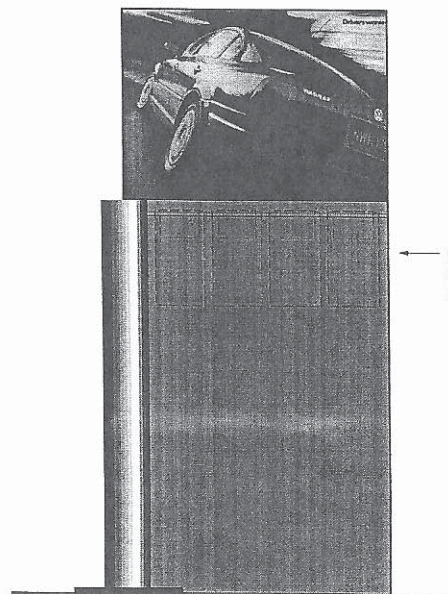
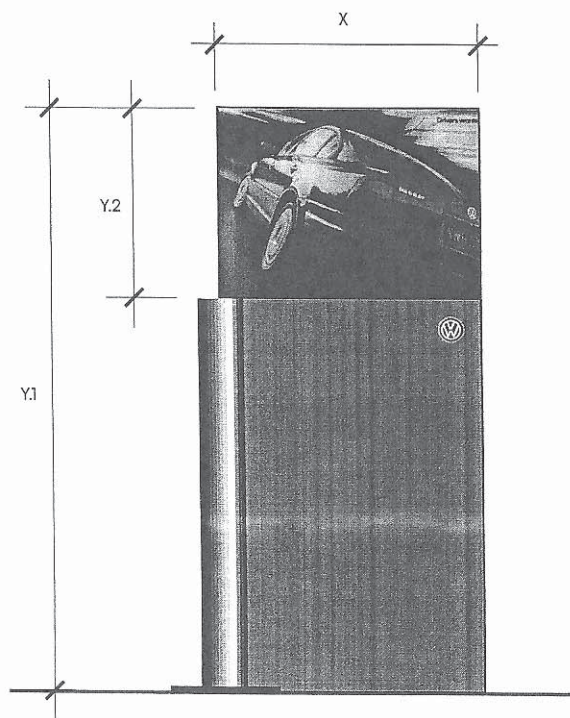
These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Suspended Poster Assemblies

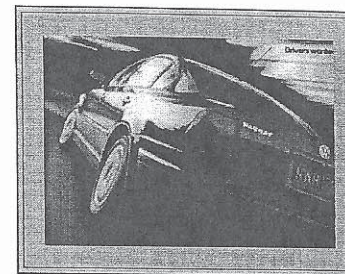
G3.7



PLAN VIEW



Optional clear acrylic brochure holders attach to track flush with surface of poster base



CE-09 Image Poster – Wall Mounted
Standard 26" x 36" satin aluminum frame holds matted 20" x 30" poster

CE-08 Poster Fixture

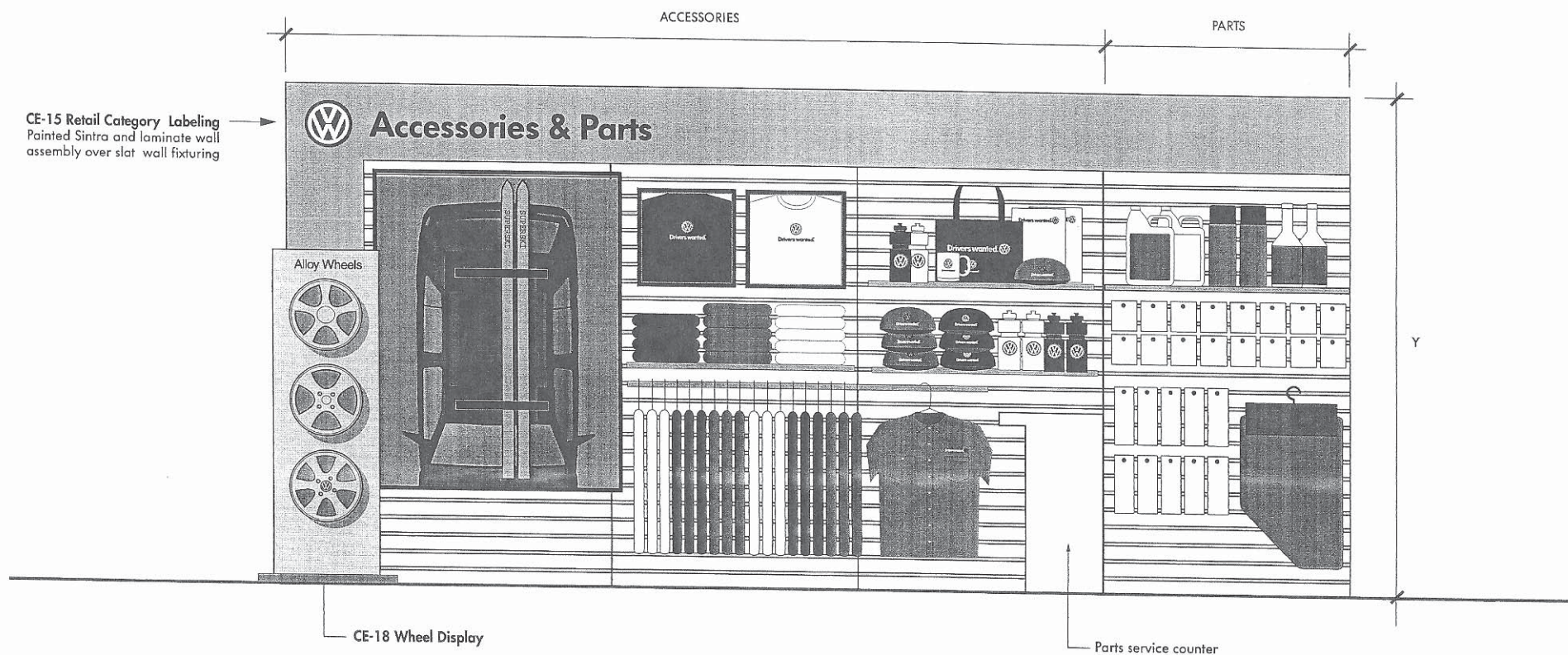
Double-sided poster fixture with clear non-glare acrylic window accepts 30" w x 20" h poster inserts; poster base skinned with satin aluminum with screen-printed or vinyl VW logo or prepared to accept digital output graphic; post and stand base fabricated to simulate Volkswagen VW/Steelcase furniture post system (poster provided by VW/Arnold Communications)



These drawings are for communication of design intent only.
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Poster Fixture

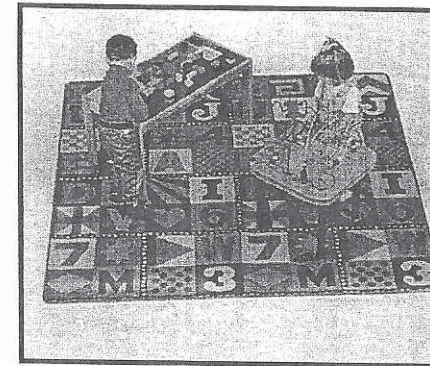
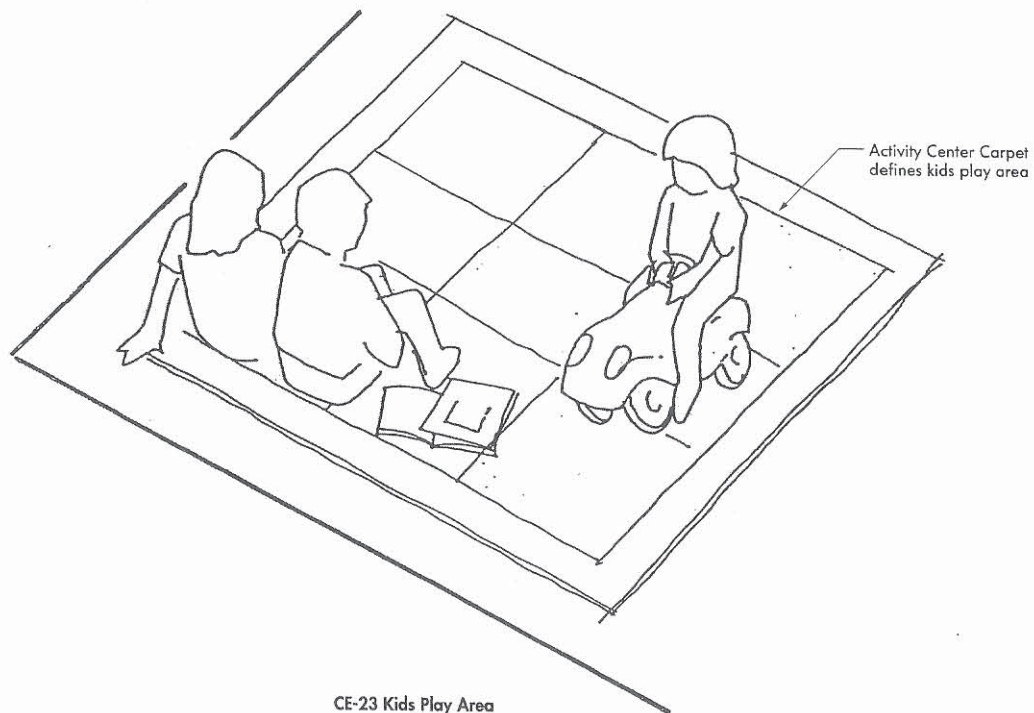
G4.1



These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Retail Display Fixturing and Signage

G4.2



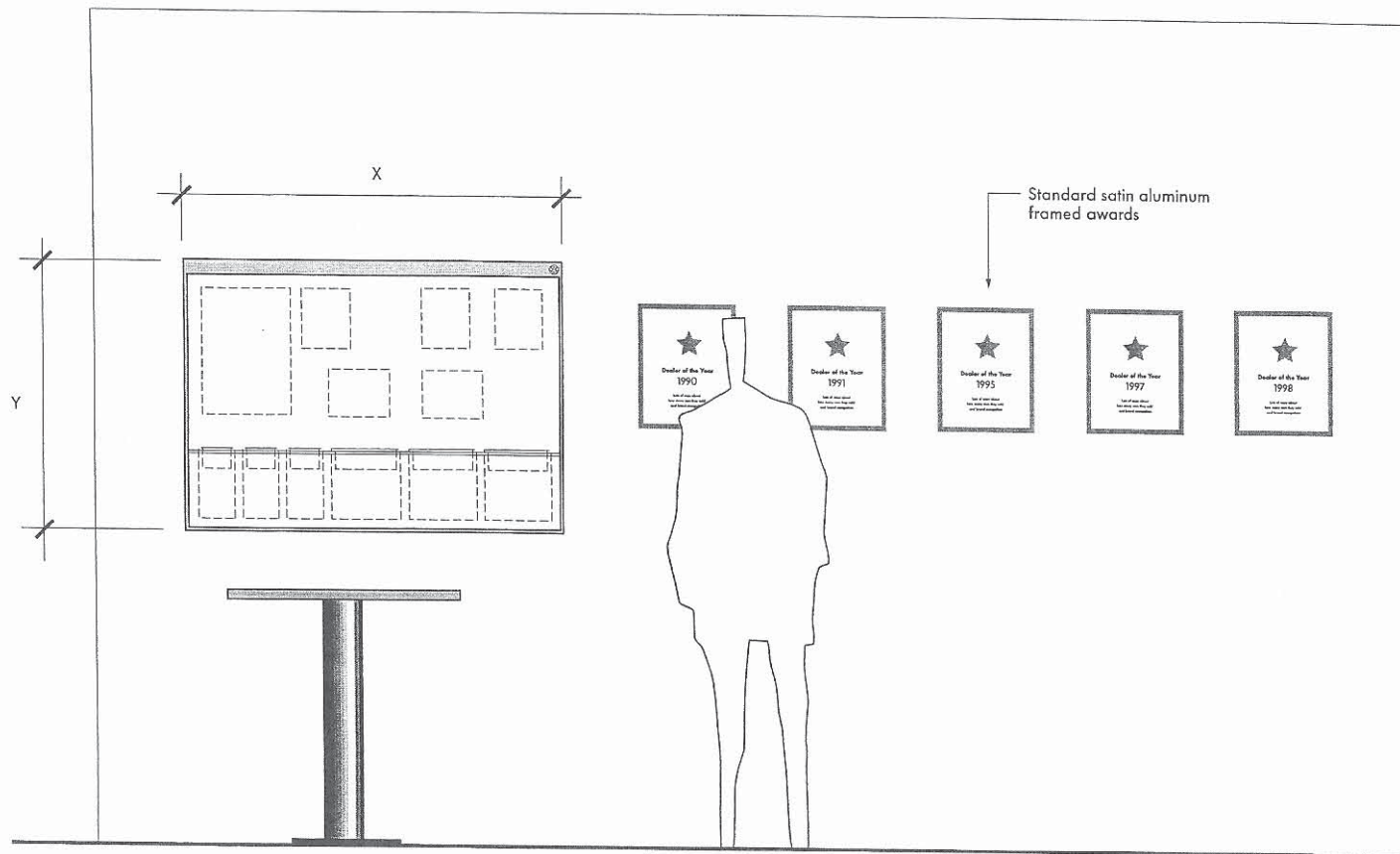
Activity Center Carpet, available in various sizes to fit area (Koala Corporation, Activities Unlimited, contact 800. 897. 5615)



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Kids Play Area

G4.3



CE-14 Legal Notice/Brochure Display Rack

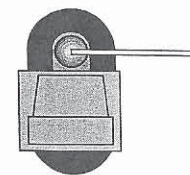
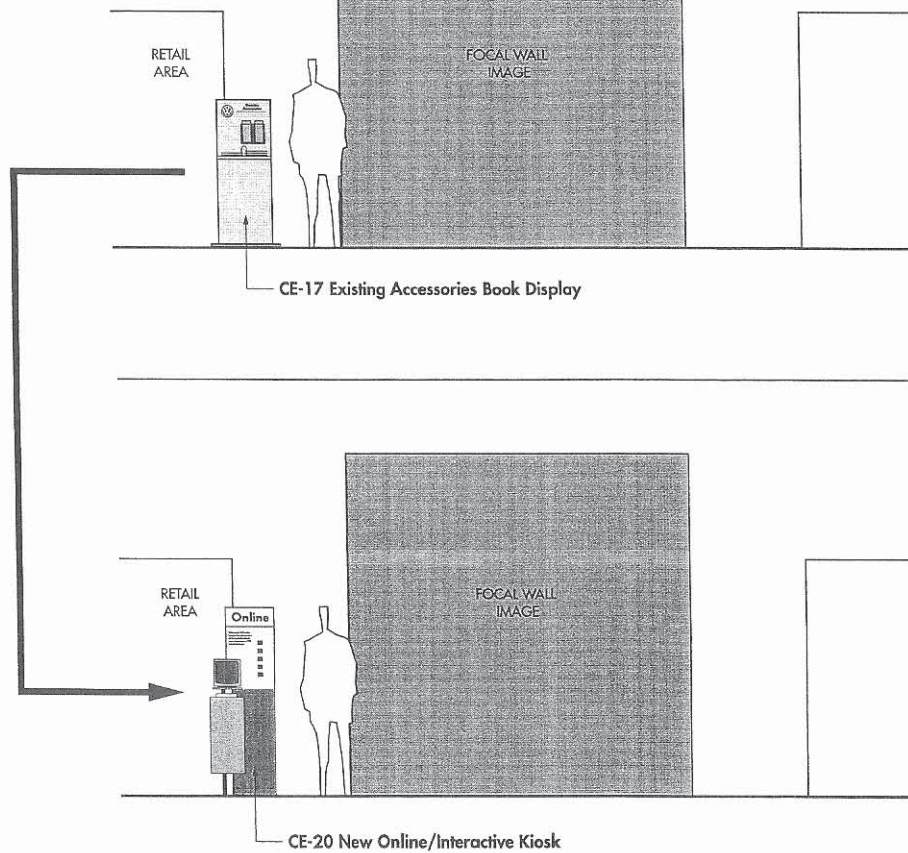
Fabricated satin aluminum framed display system with 2" header, 3/8" wide frame and Forbo #2182 light grey tackable surface has track for acrylic brochure holders, screen-printed or vinyl logo on header, mounts directly to wall with concealed hardware



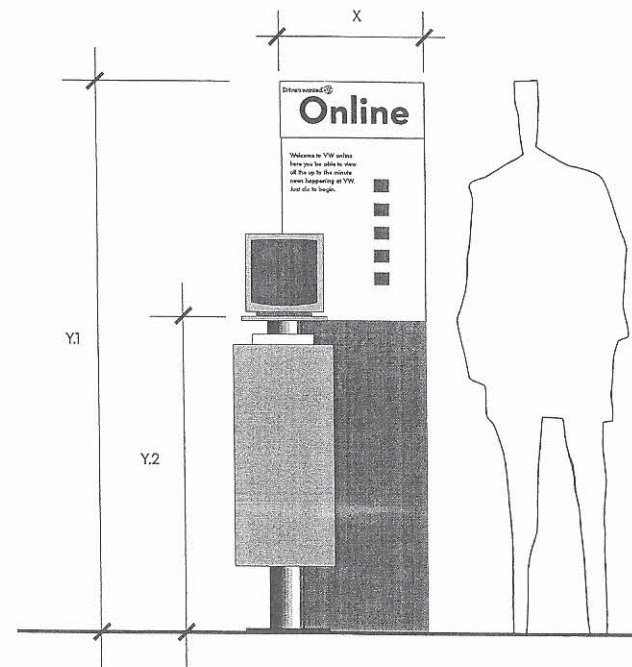
These drawings are for communication of design intent only.
These drawings are not suited or intended for construction or fabrication.

Brochure/Legal Notice Board

G4.4



PLAN VIEW



CE-20 Interactive/On-Line Kiosk

Fabricated kiosk has platform for monitor and mouse and cabinet skinned with perforated satin aluminum which holds CPU, accessible through hinged, locking front panel; attaches to satin aluminum post and acrylic poster holder, accepts changeable poster insert



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Accessories/On Line Kiosk

G4.5