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NATIONAL EVALUATION REPORT

Report No. **NER-243**

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Reissued

3M FIRE BARRIER THROUGH-PENETRATION PROTECTION SYSTEMS

3M COMPANY, INC.
3M FIRE PROTECTION PRODUCTS
BUILDING 225-4N-07
3M CENTER
ST. PAUL, MINNESOTA 55144-1000
www.3M.com/firestop

1.0 SUBJECT

3M Fire Protection Products:

3M Brand Fire Barrier Premium Latex CP 25 WB+ Caulk, 3M Brand Fire Barrier FS-195+ Wrap/Strip, 3M Brand Fire Barrier RC-1 Restricting Collar, 3M Brand Fire Barrier CS-195+ Composite Sheet, 3M Brand Fire Barrier Fire Dam 150 Caulk, 3M Brand Fire Barrier MP Moldable Putty+, 3M Brand Fire Barrier PSS 7900 Series Penetration Sealing Systems.

2.0 PROPERTIES FOR WHICH EVALUATION IS SOUGHT

- 2.1 F & T ratings of through-penetration firestop systems.
- 2.2 Annular space protection for noncombustible penetrations.

3.0 DESCRIPTION AND USE

3.1 GENERAL

3M Fire Protection Products are used to maintain the integrity of fire resistive construction that has been penetrated by building services such as plumbing, electrical, communications and heating, ventilation and air conditioning (HVAC).

3M Fire Protection Products are intumescent or endothermic based technologies used to achieve necessary fire resistive ratings. Intumescence is the ability to expand and form a high-strength fire resistive char, when exposed to temperatures in excess of 250° (121°C). Endothermic is the ability to block fire spread by chemically absorbing heat energy of a fire.

3.2 3M FIRE PROTECTION PRODUCTS

3M Brand Fire Barrier Premium Latex CP 25 WB+ Caulk: A one-part intumescent synthetic elastomeric water-based latex caulking compound designed for use as a through-penetration firestop system. See Figure 1 and Table 1 of this report.

3M Brand Fire Barrier Fire Dam 150 Caulk: A one-part water-based endothermic latex-based caulk designed for use as a through-penetration firestop system. See Figure 1 and Table 1 of this report.

3M Brand Fire Barrier MP Moldable Putty+: A one-part intumescent synthetic elastomeric hand formable putty and pad form, designed for use as a through-penetration firestop system. See Figure 1 and Table 1 of this report.

3M Brand Fire Barrier FS-195+ Wrap/Strip: A fire resistive strip that is wrapped around the penetrating item and secured in place. See Figure 2 and Table 1 of this report.

3M Brand Fire Barrier RC-1 Restricting Collar: A specially fabricated 28 gage metal collar designed for use with the FS-195 Wrap/Strip in combustible through-penetrations firestop. See Figure 2 and Table 1 of this report.

3M Brand Fire Barrier CS-195+ Composite Sheet: A fire resistive composite board comprised of an intumescent synthetic layer reinforced with a hexagonal mesh retaining wire and covered with aluminum foil on one side. The opposite side is bonded to a 28 gage sheet metal backing forming a fire resistive composite sheet. See Figure 3 and Table 1 of this report.

3M Brand Fire Barrier PSS 7900 Series Penetration Sealing Systems: A pre-cut intumescent synthetic elastomeric sheet coated with aluminum foil and packaged into through-penetration firestop kits for round openings with diameters of 4 to 10 inches (102 to 254 mm) and rectangular openings up to 8 x 16 inches (203 x 406 mm). See Figure 4 and Table 1 of this report.

4.0 INSTALLATION

4.1 GENERAL

The penetration opening and all related surfaces shall be free of frost, oil, grease, dirt and other contaminants prior to installation. The expiration date for the caulking compounds shall not exceed one year from the date of manufacture shown on the container. The caulking compounds shall not be installed when either the ambient or surface temperature is below 32°F (0°C). Latex CP 25 WB+ Caulk shall be protected from freezing before and during application.

The manufacturer's published installation instructions noted in Table 2 and this report shall be adhered to and a copy of those instructions shall be available at the job site during installation.

In the event there are any conflicts between the manufacturer's instructions and this report, the instructions within this report shall govern.

This report is limited to the specific product and data and test reports submitted by the applicant in its application requesting this report. No independent tests were performed by the National Evaluation Service, Inc. (NES), and NES specifically does not make any warranty, either expressed or implied, as to any finding or other matter in this report or as to any product covered by this report. This disclaimer includes, but is not limited to, merchantability. This report is also subject to the limitation listed herein.

4.2 THROUGH-PENETRATION FIRESTOP SYSTEMS

The through-penetration firestop systems shall be installed as shown in Figures 1 through 4 and Table 1 of this report.

4.3 ANNULAR SPACE PROTECTION OF NONCOMBUSTIBLE PENETRATIONS

3M Fire Protection Products listed in this report are permitted for use as noncombustible through-penetration annular space protection. The products are capable of preventing the passage of flames and hot gases sufficient to ignite cotton waste when subjected to the time-temperature curve of ASTM E814 and ASTM E119.

5.0 IDENTIFICATION

Each package of 3M Fire Protection Products listed in this report shall bear a label with the manufacturer's name and/or trademark and address, product name, storage information and this report number for field identification.

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature.

6.2 Report of tests in accordance with ASTM E814 for Type CP 25 Fill, Void and Cavity Material in System No. 33 and Type PSS 7904 Wall Opening Protective, Multiple-Cable Device, by Underwriters Laboratories Inc., File R9269-1, -2 and R9700, Project 81NK4314 and 81NK7951, dated December 18, 1981.

6.3 Report of tests in accordance with ASTM E814 for Type 303 putty, Type CP 25 Caulk, Type FS 195 Wrap, Type SP-515 compressible sheet and Type CS 195 intumescent sheet fill materials in Systems No.91 through 105, by Underwriters Laboratories Inc., File R9269-3, Project 83NK13140, dated June 18, 1984.

6.4 Report of tests in accordance with ASTM E814 for cable tray protection using a Type PSS79014 device with Type CP 25 caulk, by Underwriters Laboratories Inc., File R9269, Project 83NK5980, dated July 29, 1983.

6.5 Letter reports from Underwriters Laboratories Inc, signed by C. J. Johnson, Richard N. Walke and K. D. Rhodes, regarding testing performed in accordance with ASTM E814:

6.5.1 dated October 11, 1989, for MP Moldable Putty as an alternate to CP 25 N/S and S/L for UL Systems No. 64 and 148.

6.5.2 dated July 15, 1988, documenting 0.01 inch water column positive furnace pressure for all through-penetration fire tests.

6.5.3 dated July 12, 1989, documenting test parameters for nonmetallic pipes in through-penetration firestop systems.

6.5.4 dated August 5, 1988, documenting name change of CP 25 caulk to CP 25 S/L Caulk and similarity of CP 25 N/S with CP 25 S/L.

6.5.5 dated September 22, 1986, Project 85NK21862, documenting CP 25 N/S Caulk for use in UL Systems No. 61, 62, 63, 64, 65, 90, 92, 93, 95, 96, 98, 99, 100, 101, 102, 103, 136, 137, 148, and 154.

6.5.6 dated May 31, 1988, Project 86NK17418, documenting CP 25 N/S for use in UL System No. 49.

6.5.7 dated April 24, 1990, Project 89NK7615, documenting CP 25 N/S for use in UL System No. 147.

6.5.8 dated June 3, 1988, Project 87NK5289, documenting FS 195 Wrap/Strip and CP 25 N/S Caulk for use in UL System No. 64.

6.5.9 dated April 23, 1990, Project 89NK7615, documenting FS 195 Wrap/Strip and Type MP Putty for use in UL System No. 280.

6.5.10 dated October 11, 1989, documenting substitution of Type MP fill material for CP 25 S/L and N/S for use in UL Systems No. 64 and 148.

6.5.11 dated April 19, 1990, documenting Type FS 195 Wrap/Strip and Type CP 25 N/S Caulk for use in UL Systems No. 91, 49, 319, 320, and 318.

6.5.12 dated April 4, 1990, Project 89NK7615, documenting CP 25 WB Caulk for use in UL Systems No. 321 and 322.

6.5.13 dated April 20, 1990, Project 88NK6447, documenting Type MP Putty for use in UL Systems No. 202, 203 and 204.

6.5.14 dated September 20, 1988, documenting UL Systems No. 233 and 234.

6.5.15 dated February 4, 1988, Project 87NK437, documenting FireDam 150 Caulk for use in UL System No. 161.

6.5.16 dated May 4, 1990, Project 88NK6447, documenting Type CP 25 N/S Caulk for use in UL Design System No. J900C.

6.5.17 dated August 16, 1991, for CP 25 W/B caulk as an alternate to CP 25 N/S and S/L for UL System No. 319 and 91.

6.5.18 dated September 2, 1992, for CP 25 W/B caulk as an alternate to CP 25 N/S and S/L for UL Systems No. 91, 318, 319, 320, 487 and 560.

6.6 Letter report from Underwriters Laboratories Inc., signed by C. J. Johnson and Richard N. Walke, documenting annular space fire protection for noncombustible through-penetrations.

7.0 CONDITIONS OF USE

The National Evaluation Service Committee finds that the 3M Company Inc.'s 3M Fire Protection Products as described in this report, comply with the *BOCA National Building Code/1999*, *1999 Standard Building Code*, *1997 Uniform Building Code*, the *2000 International Building Code*, and the *2000 International Residential Code*, subject to the following conditions:

7.1 The through-penetration firestop systems shall be installed in accordance with the manufacturer's installation instructions noted in Table 2, subject to the conditions of this report.

7.2 The F ratings of the through-penetration firestop systems installed in fire resistance rated wall assemblies shall not be less than the required fire resistance rating of the assembly being penetrated.

7.3 The F and T ratings of the through-penetration firestop systems installed in fire resistance rated floor/ceiling assemblies shall not be less than the required fire resistance rating of the assembly being penetrated.

EXCEPTIONS:

7.3.1 The T rating is not required for floor penetrations that are contained or located within the cavity of a wall.

7.3.2 In jurisdictions enforcing the BOCA *National Building Code/1999*, the T rating is not required for penetrations of floors by a pipe, tube and conduit that is not in direct contact with combustible material.

7.4 Protection of penetrations in fire resistance rated assemblies shall not be concealed from view until inspected and approved by the code official.

7.5 3M Fire Protection Products listed in this report are permitted for use as annular space protection of non-combustible penetrations of fire resistive rated assemblies.

7.6 This report is subject to periodic re-examination. For information on the current status contact the NES.

**Table 1
3M Fire Barrier Products Applications Guide**

Penetrating Item	3M Brand Fire Barrier Product Options	Range of Application			Concrete Wall and Assemblies		Gypsum Wall Assemblies	
		Penetrating Items	Annular Space	Maximum Opening Size	F Ratings (Hrs)	T Ratings (Hrs)	F Ratings (Hrs)	T Ratings (Hrs)
1. Plastic Pipe/ Conduit & Cast-in Coupling	FS-95+ Wrap Strip with CP 25WB+ Caulk or MP Moldable Putty+	PVC: 8 in. Nominal Diameter 4 Wraps/Application	0.2 in.	9 in. Diameter	2	2	2	1-1/2
		PVC: 4 in. Nominal Diameter 3 Wraps/Application	0.75 in.	6 in. Diameter	3	2	2	2
		ABS: 4 in. Nominal Diameter 3 Wraps/Application	0.75 in.	6 in. Diameter	2	2	1-1/2	1-1/2
	PSS 7904 - 10 Penetration Sealing System with CP 25WB+ Caulk	PVC: 4 in. Nominal Diameter	3.0 in.	10 in. Diameter	3	1/2	--	--
		ABS: 4 in. Nominal Diameter	3.0 in.	10 in. Diameter	3 (in wall) 1 (in floor)	3 (in wall) 0 (in floor)	--	--
		PB: 2 in. Nominal Diameter	3.0 in.	8 in. Diameter	1/2	--	--	--
2. Metal Pipe and Conduit	CP 25WB+ Caulk	1 in. Depth of Caulk: 20 in. Diameter	2.5 in.	22.5 in. Diameter	3	0	2	0
	FS-195+ Wrap Strip, CP 25WB+ Caulk or MP Moldable Putty+	4 in. Nominal Diameter Metal Pipe	1.75 in.	8 in. Diameter	2	0	2	0
	CS-195+ Composite Sheet with FS-195+ Wrap Strip and CP 25WB+ Caulk or MP Moldable Putty+	4 in. Nominal Diameter Metal Pipe (multiple pipes)	45.0 in. *	30 x 50 in.	4 (both sides) 3 (one side)	3/4 0	--	--
	PSS 7902 Penetration Sealing System CP 25WB+ Caulk or MP Moldable Putty+	10 in. Nominal Diameter Pipe and 8 x16 in. Rectangular Cover Plate if fill is less than 10%	9.0 in.	10 x 20 in.	3	0	--	--
	CP 25WB+ Caulk	1/2 in. Depth of CP-25WB 12 in. Nominal Diameter Pipe	1.2 in.	14 in. Diameter	3	0	--	--
	FD 150 FireDam Caulk	2 in. Depth of FireDam 150 Caulk 6 in. Nominal Diameter Pipe	2.0 in.	8-1/4 in. Diameter	3	0	--	--
	MP Moldable Putty+	1 in. Depth of Putty 10 in. Nominal Diameter Pipe	0.75 in.	12-1/4 in. Diameter	2 (1/2 in. depth) 3 (1 in. depth)	0	--	--
3. Fiberglass Insulated Metal Pipe	CP 25WB+ Caulk	1 in. depth of Caulk per 1 in. Thickness of Insulation 12 in. Nominal Diameter Pipe	1.0 in.	16-1/2 in. Diameter	3 (1 in. insulation) 2 (2 in. insulation) with 2 in. depth of caulk)	3/4 1-1/2	--	--
	FS-195+ Wrap Strip with CP 25WB+ Caulk	1/2 in. Depth of Caulk; 4 FS-195 Wrap Strips 3 in. Thickness of Insulation 20 in. Nominal Diameter Pipe	1.0 in.	28 in. Diameter	3	1	--	--
	CS-195 Composite Sheet with FS-195+ Wrap Strip and CP 25WB+ Caulk	4 in. Nominal Diameter Pipe with 1 in. Thickness of Insulation 1 Wrap FS-195 and 1/4 in. Bead CP-25N/S Caulk	43.0 in. *	30 x 50 in.	4	3/4	--	--

**Table 1
3M Fire Barrier Products Applications Guide**

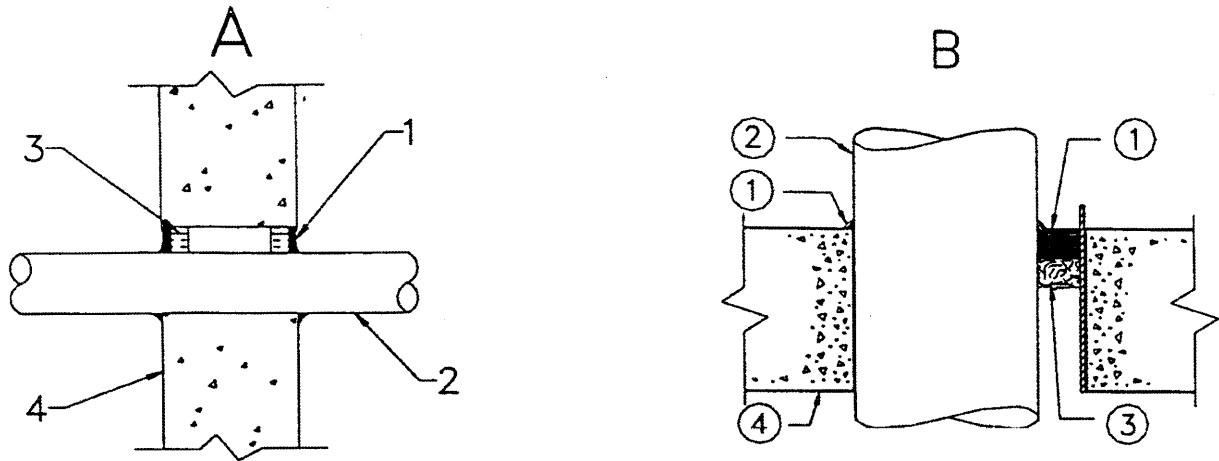
Penetrating Item	3M Brand Fire Barrier Product Options	Range of Application			Concrete Wall and Assemblies		Gypsum Wall Assemblies	
		Penetrating Items	Annular Space	Maximum Opening Size	F Ratings (Hrs)	T Ratings (Hrs)	F Ratings (Hrs)	T Ratings (Hrs)
4. Insulated Electrical and Communications Cable	CP 25WB+ Caulk	1 in. Depth of Caulk; 43% of Area Filled, 350 MCM Cable and 100 Pair Telephone Cable	0.75 in.	6 in. Diameter	3	0	2	1-1/2
		1 in. Depth of Caulk; 37% of Area Filled, 3/0 350 MCM Cable and 100 Pair Telephone Cable	0.75 in.					
		2-1/2 in. Depth of Caulk; 59% of Area Filled, 7C/12 AWG Cable, 100 Pair Telephone Cable	0.75 in.					
	FS-195+ Wrap Strip with CP 25WB+ Caulk or MP Moldable Putty+	4 in. Depth of Caulk with FS-195 Wrap; 59% Area Filled, 350 MCM Cable	0.75 in.	6 in. Diameter	2	0	--	--
	CS-195 Composite Sheet with FS-195+ Wrap Strip and CP 25WB+ Caulk or MP Moldable Putty+	Multiconductor 12 AWG Cable, 100 Pair PVC Telephone, Cable Bundle 3 in. Diameter	47.0 in.*	30 x 50 in.	4	1	--	--
	PSS 7904 Penetration Sealing System with CP 25WB+ Caulk	350 MCM Cable; 30% of Area Filled. Cover Plate required if fill is less than 10%	11.0 in.	8 x 16 in.	3	1/2	--	--
	MP Moldable Putty+	Telephone Cable; 100 Pair, 40% of Area Filled	0.75 in.	6-1/4 in. Diameter	2	0	--	--
5. Cable Tray	CS-195+ Composite Sheet with CP 25WB+ Caulk	Nominal Size Cable Tray 4 x 24 in.; 39% Area Filled in Tray; Cable Size: 300 MCM 4 in. Depth of Caulk	14.64 in.	12 x 24 in.	3	0	--	--
	PSS 7904-R Penetration Sealing System with CP 25WB+ Caulk	Nominal Size Cable Tray 4 x 18 in.; 52% Area Filled in Tray; 25 Pair No. 22 AWG Telephone Cable	9.0 in.	10 x 20 in.	3	3/4	--	--
6. Glass Pipe	FS-195+ Wrap Strip with CP 25WB+ Caulk	6 in. Nominal Diameter Pipe	1.0 in.	8 in. Diameter	3	0	--	--
	PSS 7904 Penetration Sealing System with CP 25WB+ Caulk	6 in. Nominal Diameter Pipe	1.0 in.	6 x 8 in. 8 in. Diameter	3	0	--	--
7. Blank Openings and Construction Joints and Expansion Trenches	CP 25WB+ Caulk	1/2 to 1 in. Depth	--	Joint Width	3	3	--	--
		2 in. Depth. Cover Plate required when joint width exceeds 2 in.	--	4 in. Diameter Opening 4 in. Joint Width	3	2	--	--
	MP Moldable Putty+	1 in. Depth	--	1 in. Joint Width	2	2	--	--
	PSS 7904 Penetration Sealing System with CP 25 WB+ Caulk	4 in. Depth of Kit . Cover Plate required	--	8 x 16 in.	3	1	--	--

* Distance measured from the outer edge of the penetrant to the furthest edge of the opening.

Table 2 — INSTALLATION GUIDES

3M Brand Fire Barrier Product	Installation Guide (Publication Code)
3M Brand Fire Barrier Premium Latex CP 25WB+ Caulk	98-0400-2214-1
3M Brand Fire Barrier FS-195+ Wrap/Strip 3M Brand Fire Barrier RC-1 Restricting Collar	98-0400-2327-1
3M Brand Fire Barrier CS-195+ Composite Sheet	98-0400-2360-2
3M Brand Fire Barrier MP Moldable Putty+	98-0400-4869-0
3M Brand Fire Barrier PSS 7900 Series Penetration Sealing Systems	98-0701-2680 4(118.71)R1RP1

Figure 1*
3M Brand Fire Barrier Caulks and Moldable Putties
Noncombustible and Combustible Penetrants



DESCRIPTIONS
 (see Table 1 for additional requirements)

1. **3M BRAND:** Fire Barrier CP-25WB+ or Fire Barrier Fire Dam 150 Caulk and Fire Barrier Moldable Putty.
2. **PENETRATING ITEM:** Metal pipe or conduit, insulated metal pipe, electrical cable, or blank opening/construction joint.
3. **DAMMING MATERIAL:** Mineral wool, Fiberglass insulation or backer rod.
4. **FIRE RESISTANCE RATED ASSEMBLY:** Concrete block wall (solid or open), concrete floor assembly or gypsum wall board assembly.

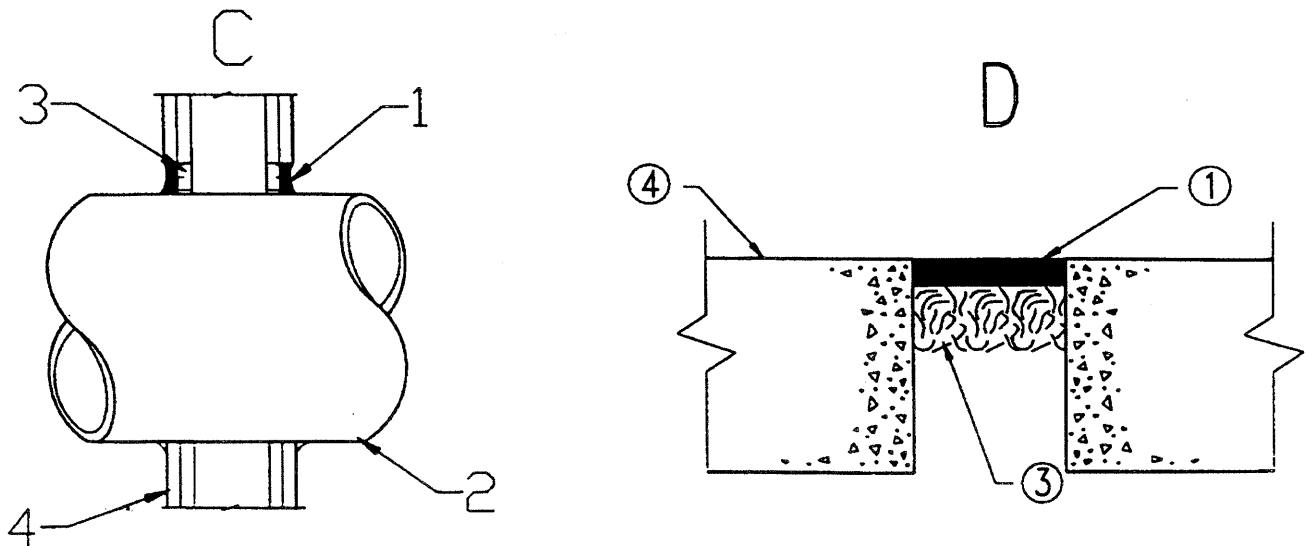
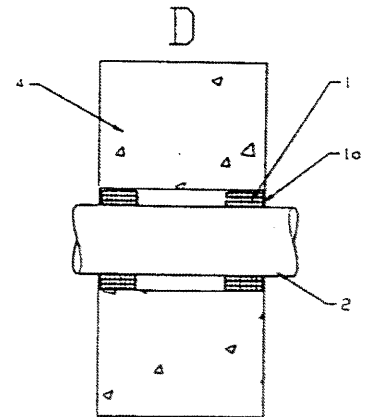
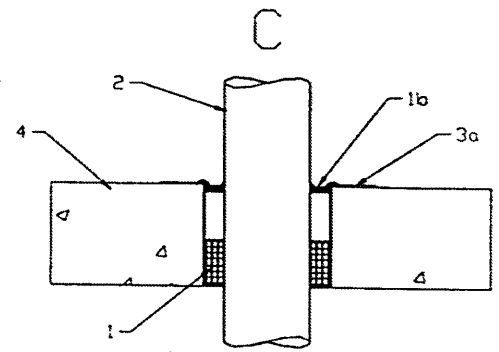
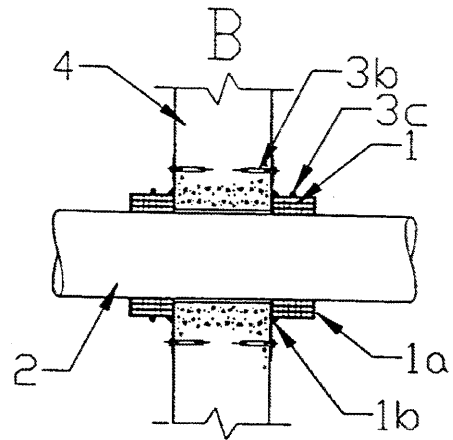
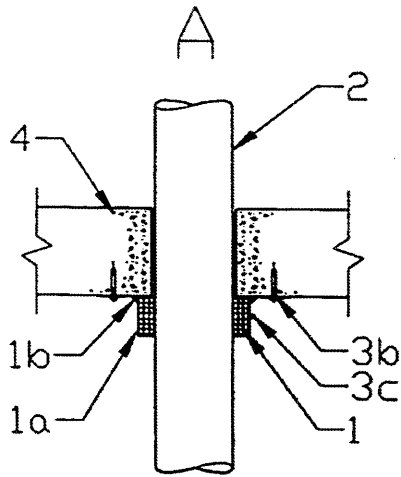


Figure 2*
3M Brand Fire Barrier FS-195+ Wrap/Strip



- DESCRIPTIONS**
 (see **Table 1** for additional requirements)
1. **3M BRAND:** Fire Barrier FS-195+ Wrap/Strip.
 - 1a. **3M BRAND:** Fire Barrier RC-1 Restricting Collar.
 - 1b. **3M BRAND:** Fire Barrier CP-25WB+.
 2. **PENETRATING ITEM:** Plastic pipe or conduit.
 3. **ACCESSORIES:**
 - 3a. Metal support clips.
 - 3b. Fastening anchors.
 - 3c. Steel hose clamps.
 4. **FIRE RESISTANCE RATED ASSEMBLY:** Concrete block wall (solid or open), concrete floor assembly or gypsum wall board assembly.

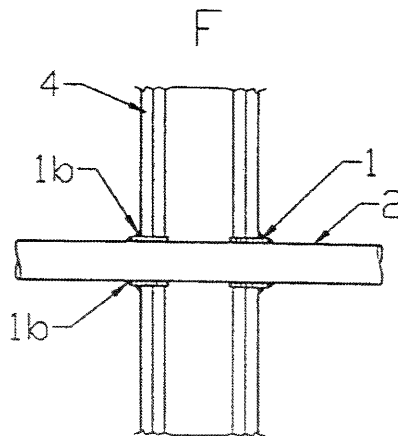
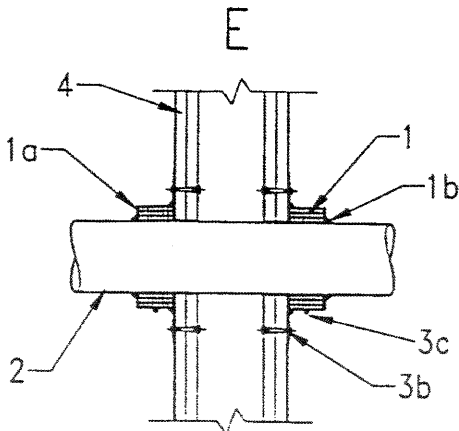
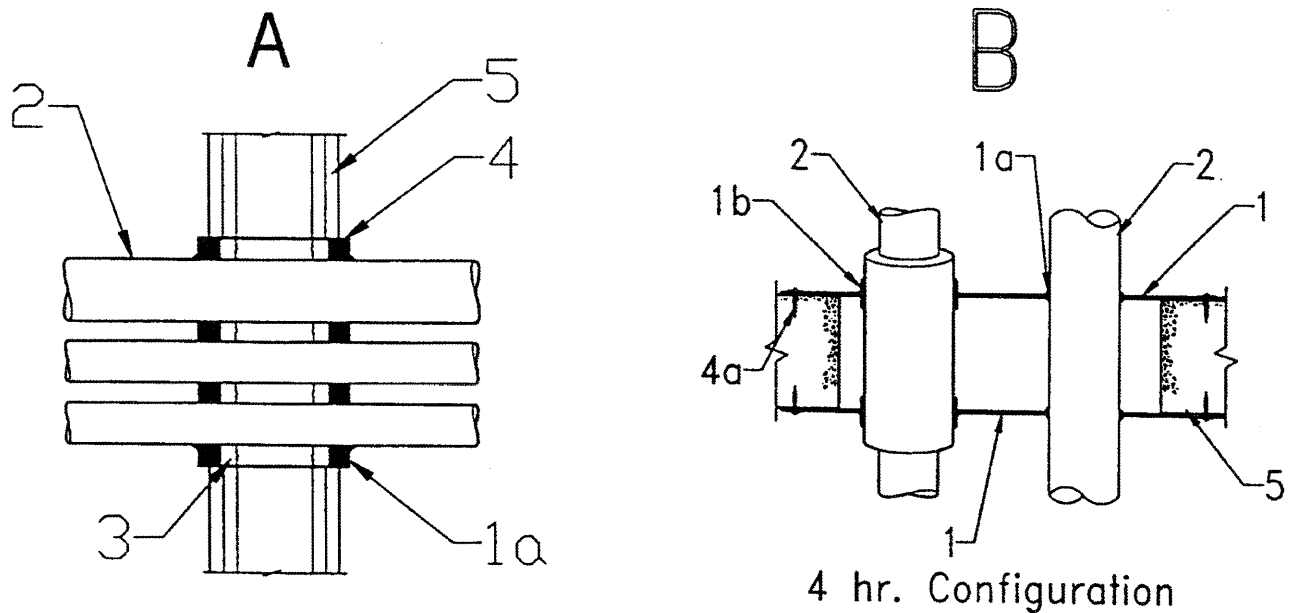


Figure 3*
3M Brand Fire Barrier CS-195+ Composite Sheet
Large Openings, Multiple Penetrants and 4-Hour System



DESCRIPTIONS

(see Table 1 for additional requirements)

1. **3M BRAND:** Fire Barrier CS-195+ Composite Sheet. The bottom CS-195+ Composite Sheet is required for the 4-hour system only.
 - 1a. **3M BRAND:** Fire Barrier CP 25WB+ Caulk.
 - 1b. **3M BRAND:** Fire Barrier FS-195+ Wrap/Strip.
2. **PENETRATING ITEM:** Metal pipe, conduit, insulated metal pipe or backer cables.
3. **DAMMING MATERIAL:** Mineral wool, Fiberglass insulation or backer rod.
4. **STEEL SLEEVE:**
 - 4a. Masonry fasteners.
 - 4b. Stainless steel tie wire.
 - 4c. Steel cover strip.
5. **FIRE RESISTANCE RATED ASSEMBLY:** Concrete block wall (solid or open), concrete floor assembly or gypsum wall board assembly.

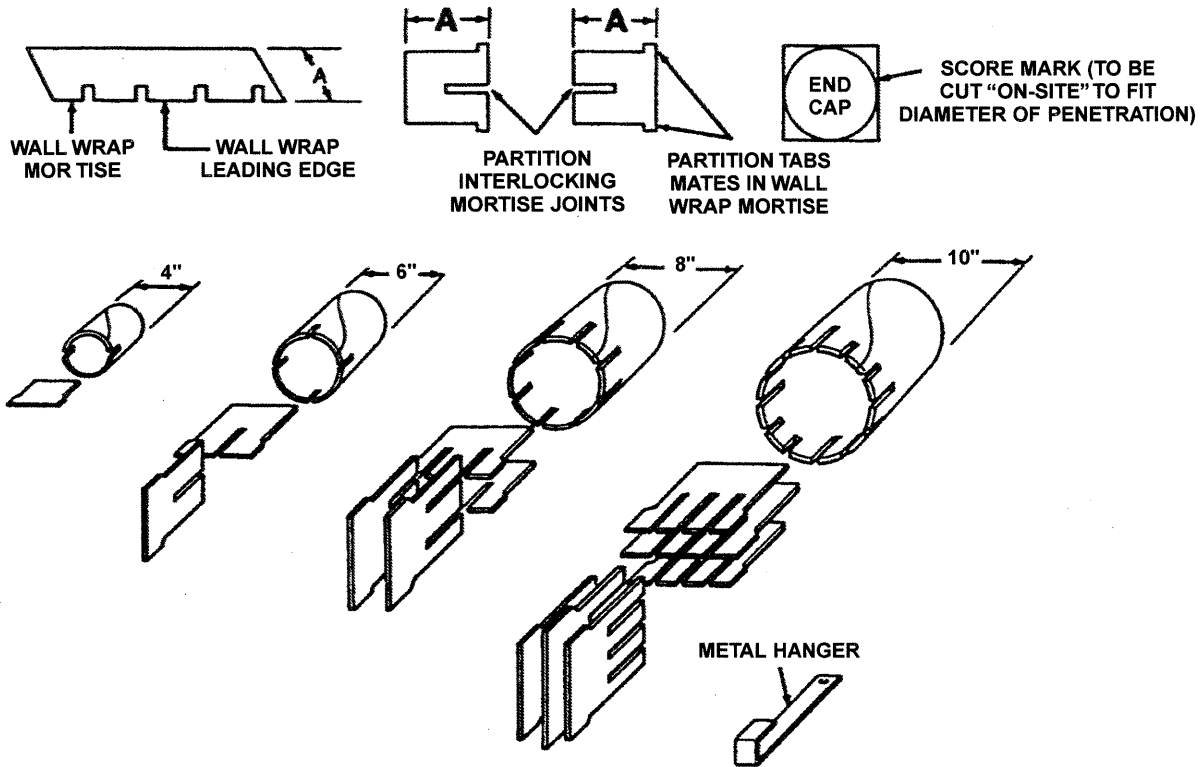
Figure 4* 3M Brand Fire Barrier Kits Penetration Sealing Systems

A Typical Dimensions

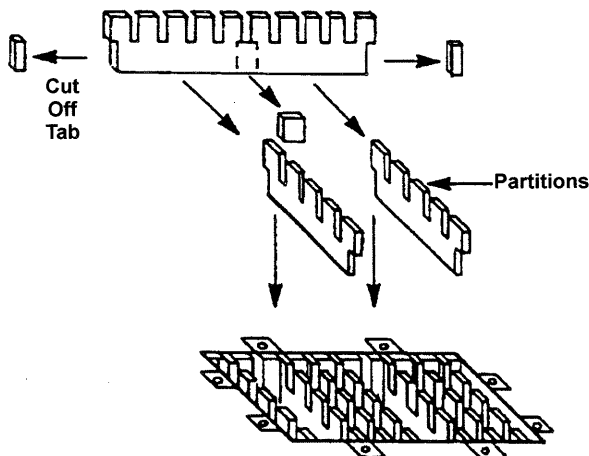
7902 Series; 7904 Series

A = 2" (51 mm) FOR 7902 SERIES

A = 4" (102 mm) FOR 7904 SERIES



B 7902-R and 7904-R



DESCRIPTIONS
(see Table 1 for additional requirements)
1. 3M Brand: Fire Barrier 7902 and 7904 Series; 7902-R and 7904-R.
2. PENETRATING ITEM: Metal pipe or conduit, insulated metal pipe, electrical cable, or blank opening/construction joint.
3. FIRE RESISTIVE ASSEMBLY: Concrete block wall (solid or open), concrete floor assembly or gypsum wall board assembly.

*THESE DRAWINGS ARE FOR ILLUSTRATION PURPOSE ONLY. THEY ARE NOT INTENDED FOR USE AS CONSTRUCTION DOCUMENTS FOR THE PURPOSE OF DESIGN, FABRICATION OR ERECTION.

CITY OF SANTA ANA

BUILDING PERMIT WORKSHEET

10/74361

PLEASE PRINT

1/14/09: forms/Bldg.App.Worksheet

PROJECT ADDRESS: <u>3 Hutton 8th Floor</u>	SUITE:	SAPIN #
USE OF BUILDING: RESIDENTIAL <u>COMMERCIAL</u> INDUSTRIAL OTHER	MASTER ID#	
NATURE OF WORK: NEW ADD <u>ALTER/T.I.</u> DEMO REROOF REPAIR SIGN MISC		
NEW/ADDITION/ALTERATION:		
1ST FL. _____ SF	BASEMENT: YES/NO _____ SF	NO. OF STORIES: _____
2ND FL. _____ SF	PATIO/ENCL. PATIO: _____ SF	BLDG. HEIGHT: _____
TOTAL OF OTHER FLS: _____ SF	RES. REMODEL: _____ SF	PROPOSED USE: _____
GARAGE/CARPORT: _____ SF	ALTER/T.I.: <u>1,500</u> SF	
JOB DESCRIPTION (non-residential projects see reverse side of this application): <u>UPGRADES TO PUBLIC CORRIDOR, ELEVATOR LOBBY & RESTROOMS LIGHTING & AOA</u>		

BUILDING OWNER'S NAME: <u>CBRE</u>	PHONE NO: <u>949.757.6996</u>
ADDRESS: <u>3 Hutton #850</u>	CITY: <u>SANTA ANA</u> STATE: <u>CA</u> ZIP: <u>92707</u>
TENANT'S NAME (Comm/Ind): <u>NA.</u>	PHONE NO:
CONTRACTOR'S NAME:	STATE CONTR. #: LICENSE CLASS: PHONE NO:
ADDRESS:	CITY: STATE: ZIP:
WORKERS COMP. POLICY#: EXP. DATE:	INSURANCE COMPANY: SANTA ANA BUS. LIC. #:
ARCHITECT/ENGINEER: <u>O3 DESIGN</u>	STATE LICENSE #: PHONE NO: <u>949.757.6996</u>
ADDRESS: <u>2070 BUSINESS CENTER DR #220 RUISE CA</u>	CITY: STATE: ZIP: <u>92612</u>
CONTACT NAME: <u>SHEILA ANDELIU</u>	PHONE NO: <u>949.757.6996</u>
E-MAIL ADDRESS: <u>O3DESIGN@aol.com</u>	FAX NO:

OFFICE USE ONLY: ACC OR SPQ (CIRCLE ONE) _____ HRS PER KA BLDG. FEE \$ _____

OCC. GROUP: _____ RECEIPT #: 58771 P/C FEE PD \$ 450

TYPE OF CONSTR: _____ VALUATION: \$ 54,000 SUBMITTAL DATE: 2/9/12

FIRE SPKR: YES / NO A/C: YES / NO FLOOD ZONE: _____ PROCESSED: [Signature]

RES. DEV. FEE: YES / NO PRIOR DWELLING UNIT: YES / NO COMMENTS: _____

PLANNING OK TO CHECK & DATE _____ BLDG. DEPT. APPROVAL & DATE _____

PLNG CONDITIONS: _____

PLEASE CHECK ALL THAT APPLY TO YOUR PROJECT

JOB DESCRIPTION CHECKLIST:

- | | |
|--|---|
| <input type="checkbox"/> Additional square footage | <input type="checkbox"/> Partition walls |
| <input type="checkbox"/> Awnings | <input type="checkbox"/> Rated corridors |
| <input type="checkbox"/> Canopy | <input type="checkbox"/> Rated shafts |
| <input type="checkbox"/> Ceiling work | <input type="checkbox"/> Roof mounted equipment |
| <input type="checkbox"/> Change of occupancy (use) | <input type="checkbox"/> Security bars |
| <input type="checkbox"/> Disabled accessible (H/C) restrooms | <input type="checkbox"/> Screening for equipment |
| <input type="checkbox"/> Dust collector | <input type="checkbox"/> Skylights |
| <input type="checkbox"/> Elevator shaft | <input type="checkbox"/> Stairs |
| <input type="checkbox"/> Exterior doors or windows | <input type="checkbox"/> Storefront/facade improvements |
| <input type="checkbox"/> Equipment pads | <input type="checkbox"/> Storage racks or shelving over 5'-9" |
| <input type="checkbox"/> Interior demo | <input type="checkbox"/> Walk-in coolers |
| <input type="checkbox"/> Kitchen equipment | |

ITEMS REQUIRING SEPARATE BUILDING PERMIT APPLICATIONS:

- Block wall
- Card readers
- Complete demo
- Fence
- Fire signaling system
- Fire sprinklers
- Flagpole
- Lawn sprinkler system
- Light Standards
- Parking lot repaving
- Parking lot restriping
- Pedestrian protection
- Pool/Spa
- Signs
- Spray booth
- Temporary power pole
- Trash enclosure

FEE CHECKLIST WORKSHEET

Received by: _____

SAPIN #: 1077436d

<u>FEE TYPE</u>	<u>REQUIRED</u>	
	Yes	No
Plan Check Fee	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Disability Fee	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SMIP Fee	<input type="checkbox"/>	<input type="checkbox"/>
Res. Dev. Fee	<input type="checkbox"/>	<input type="checkbox"/>
Fire Facility Fee	<input type="checkbox"/>	<input type="checkbox"/>
School Distr. Fee	<input type="checkbox"/>	<input type="checkbox"/>
Microfilm	<input type="checkbox"/>	<input type="checkbox"/>
FCWP Surcharge	<input type="checkbox"/>	<input type="checkbox"/>

CALCULATION AREA

COST/SQ FT X TOTAL SQ FT = VALUATION

$$35.90 (1,500\text{ sq ft}) =$$

Counter computations/valuation \$

53,850

Plan checker computation/final valuation \$ _____

**CITY OF SANTA ANA
PLAN CHECK - CHECKLIST**

JOB ADDRESS: 3 E Hutton 800

TRACKING #: 1074361

DATE: 2/9/12

FOR PLANCHECK STATUS CALL (714) 647-5800

PLEASE INITIAL EACH ITEM BELOW

- 1 1. I agree to pay a plancheck fee established for this project with the understanding that this payment is not a guarantee that a permit will be issued and that this fee is not refundable once a plancheck has commenced.
- 2 2. I understand that I may request an "Accelerated Plancheck" at an additional cost to me. This plancheck will be performed by an in-house plan checker with the intention of reducing plancheck time for the Building & Safety Division.
- 3 3. I understand that the project valuation (from which plancheck and permit fees are calculated) will be reviewed during the plancheck process and that said valuation shall be adjusted up or down in accordance with established fee computation regulations.
- 4 4. I understand that I shall submit separate plans, applications and plancheck fees for the following when plan check is required:
 - a. Electrical Plans - 2 complete sets
 - b. Plumbing Plans - 3 complete sets
 - c. Mechanical Plans - 2 complete sets
 - d. Grading Plans - 3 complete sets
- 5 5. I understand that I shall visit the Public Works Department to verify whether a field inspection of the property is required. I understand that prior to the issuance of the Building permit I am required to obtain Public Works Agency approval if my project valuation exceeds \$30,000 or has added plumbing fixtures, or added bedrooms, or exceeds 500 sq.ft.

AGREED TO BY APPLICANT OR AGENT

Applicant's Signature [Signature]

Print Name Shelva Adams

Address 2070 BUSINESS CENTER DR

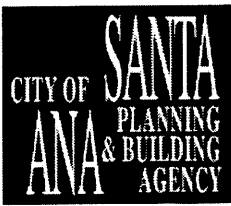
Telephone Number 949 757 6996

Fax 4170 812VINE, CA

FOR OFFICE USE ONLY: "Checklist of items discussed" APPROVALS & FEES REQUIRED: Y/N

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> 1. Planning Department | <input checked="" type="checkbox"/> 7. Title 24 (Energy) | <input checked="" type="checkbox"/> 14. Constr. Act. Req. |
| <input checked="" type="checkbox"/> 2. Public Works Agency | <input checked="" type="checkbox"/> 8. Title 24 (Disabled Access) | <input checked="" type="checkbox"/> 15. Res. Dev. Fees |
| <input checked="" type="checkbox"/> 3. Fire Department | <input checked="" type="checkbox"/> 9. Roof Mounted Equip. | <input checked="" type="checkbox"/> 16. SMIP |
| <input checked="" type="checkbox"/> 4. Police Department | <input checked="" type="checkbox"/> 10. List of Subcontr. | <input checked="" type="checkbox"/> 17. Microfilming |
| <input type="checkbox"/> 5. School District | <input checked="" type="checkbox"/> 11. Bldg. Pmt. Info. | <input type="checkbox"/> 18. Const. Debris Recyc. |
| <input type="checkbox"/> 6. Health Department | <input checked="" type="checkbox"/> 12. Summary of Appr. Req. | <input type="checkbox"/> 19. FCWP Surcharge |
| | <input checked="" type="checkbox"/> 13. FY Information | <input type="checkbox"/> 20. LOA/Owner-Builder Ver. |

PERMIT TECHNICIAN [Signature]



Planning & Building Agency
20 Civic Center Plaza Ross Annex

P.O. Box 1988 (M-19)
Santa Ana, CA 92702
(714) 647-5800

ADDENDUM TO:
TITLE 24 ELECTRICAL ENERGY PLAN
LTG-1 and ASSOCIATED DOCUMENTS

Updated 2/8/2010

This form must be completed by a Qualified Energy Consultant
NOT BY THE ELECTRICAL DESIGNER or DOCUMENTATION AUTHOR
(SEE ELECTRICAL PLANCHECK COMMENT BELOW)

Tracking Number: _____

Project Address: 3 HUTTON CENTER DRIVE

I have reviewed the both the LTG electrical calculations and the electrical construction drawings for the above project and find both to be in compliance with the Energy Efficiency Standards and Administrative Requirements of the California Code of Regulations, Title 24, Parts 1 and 6. I understand that my review was performed as a representative for the enforcement agency, the City of Santa Ana Building Safety Division.

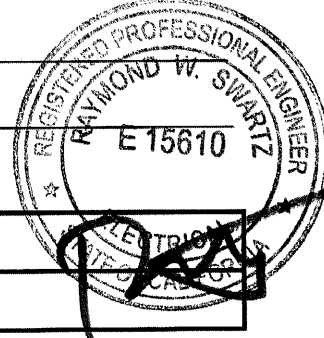
Signature: [Handwritten Signature] eMail: RSWARTZ@konsortium1.com

Print Name: RAYMOND SWARTZ Date: 02.08.2012

Company Name: KONSORTIUM 1 Phone: (714) 668 4200

Company Address: 1532 E. WARNER AVE.
Santa Ana, CA 92705

One of these numbers is required ↘



Architect or Engineer License Number	<u>E15610</u>
Energy Analyst Certification Number	

ELECTRICAL PLANCHECK COMMENT (WEBLINKS LAST VERIFIED 2/8/10)

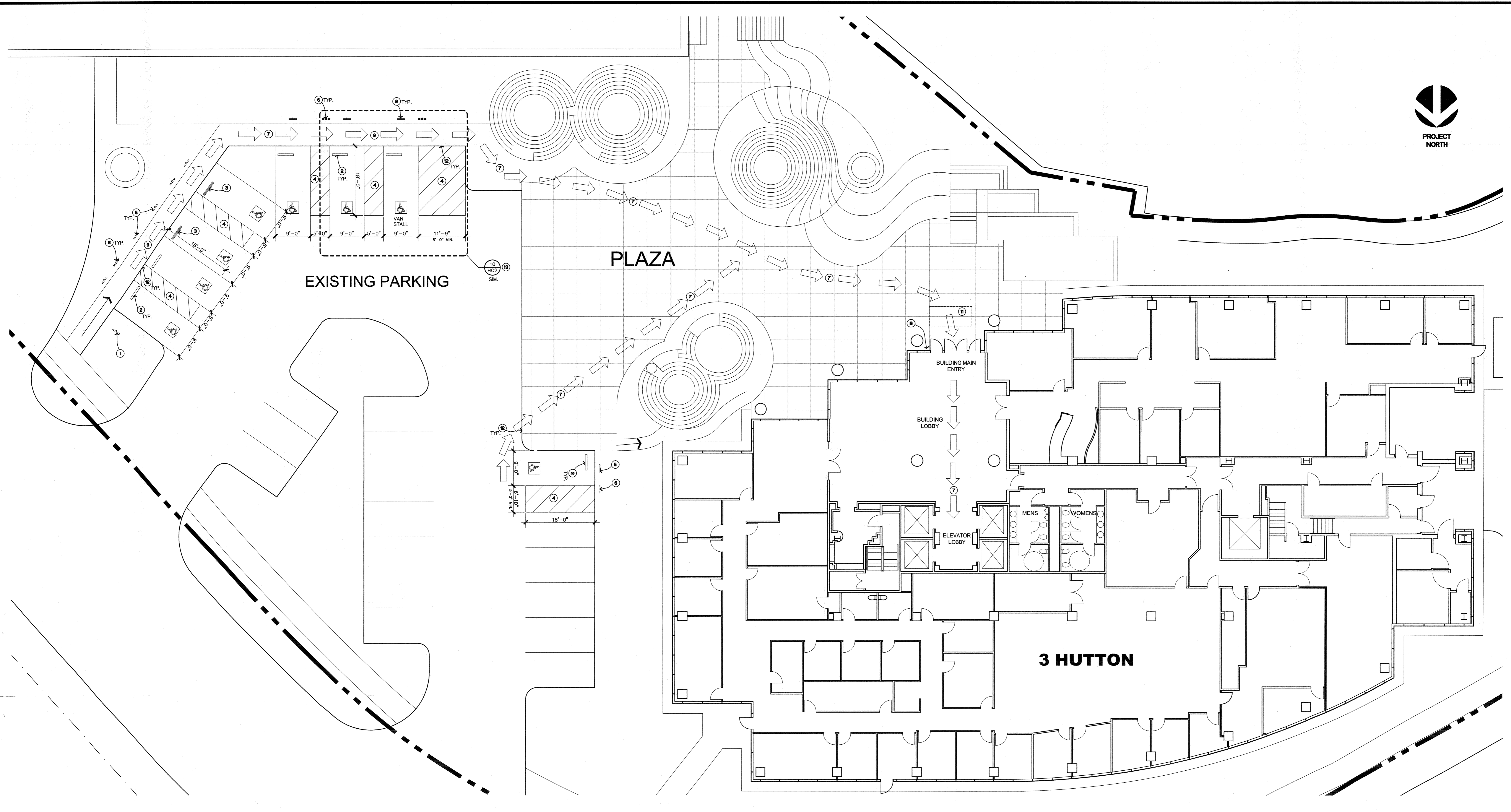
Provided Title 24 LTG-1 and associated 3rd generation forms must have all required signatures and information blocks completed, **including this form – signed by an unbiased 3rd party enforcement agent.**

A Certified Energy Plans Examiner, a licensed Engineer, or Architect — who is not directly involved in the design, documentation, or financial outcome of the project — is an appropriate 3rd party enforcement agent for this document.

Energy Analysts and Plans Examiners lists are at: <http://www.cabec.org/ceperosterall.php>
Engineers lists are at: http://www.pels.ca.gov/consumers/lic_lookup.shtml
Architect verification is at: http://www.cab.ca.gov/consumers/license_verification.shtml

Energy Commission website index is at: <http://www.energy.ca.gov/html/directory.html#E>

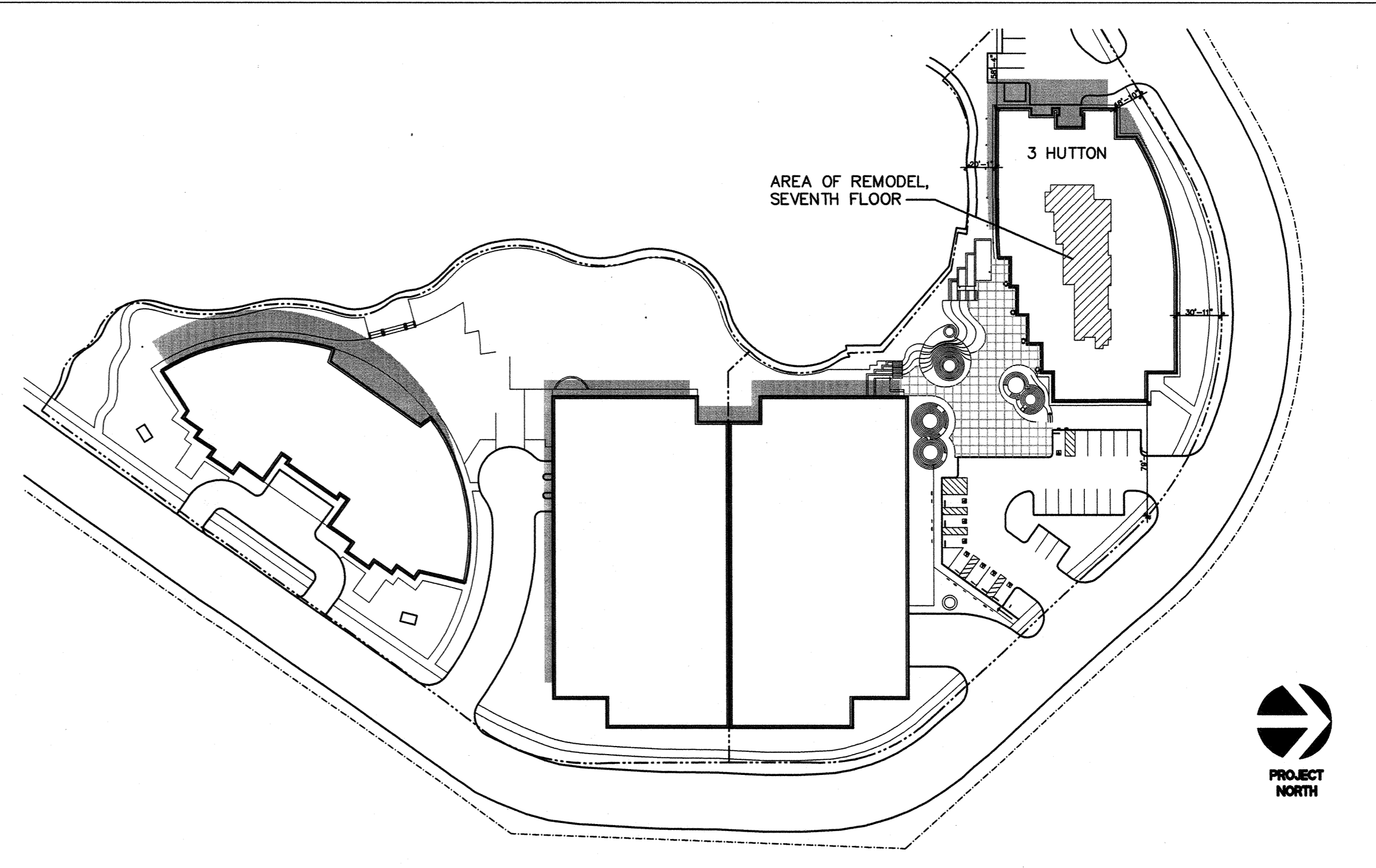
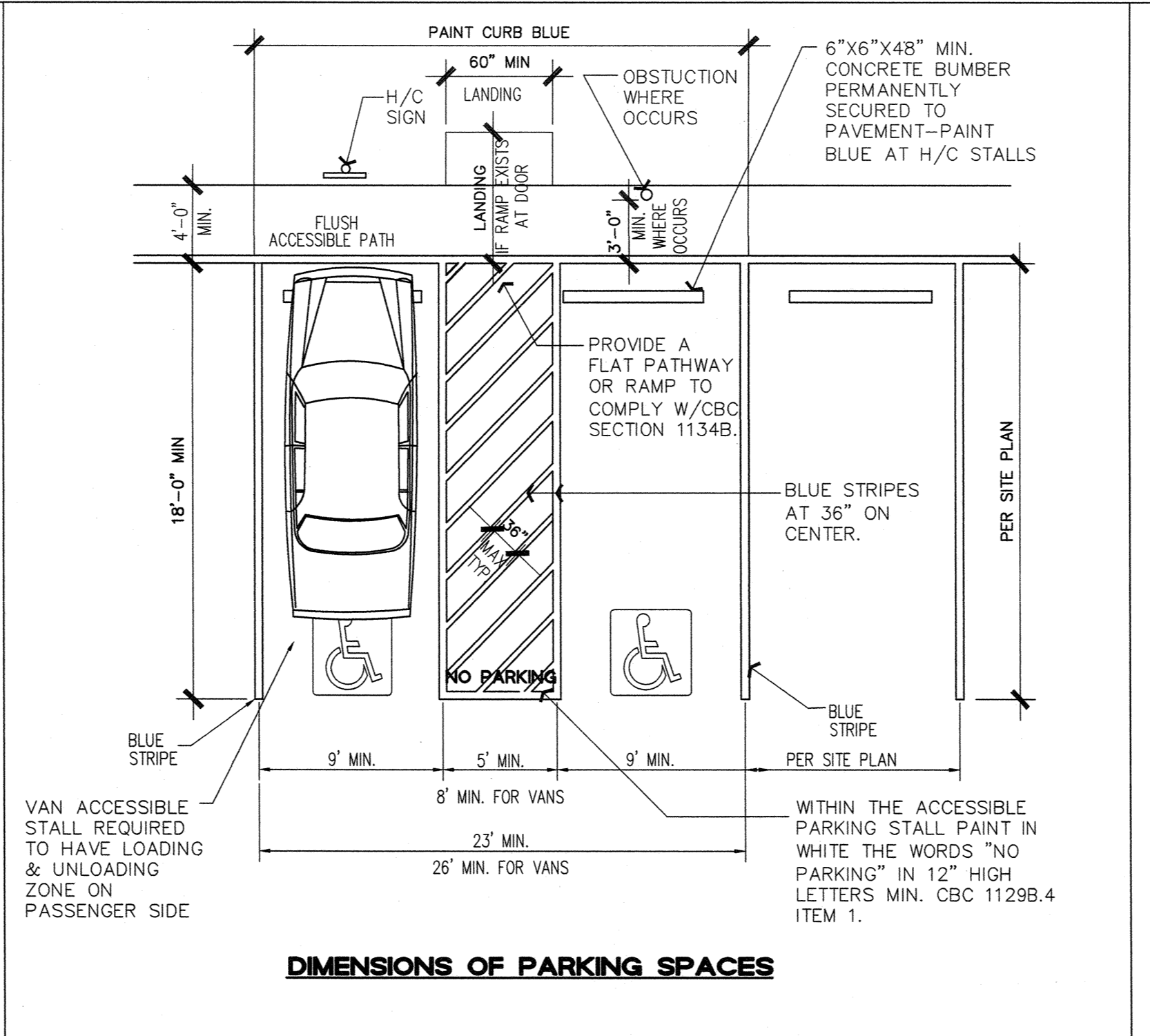
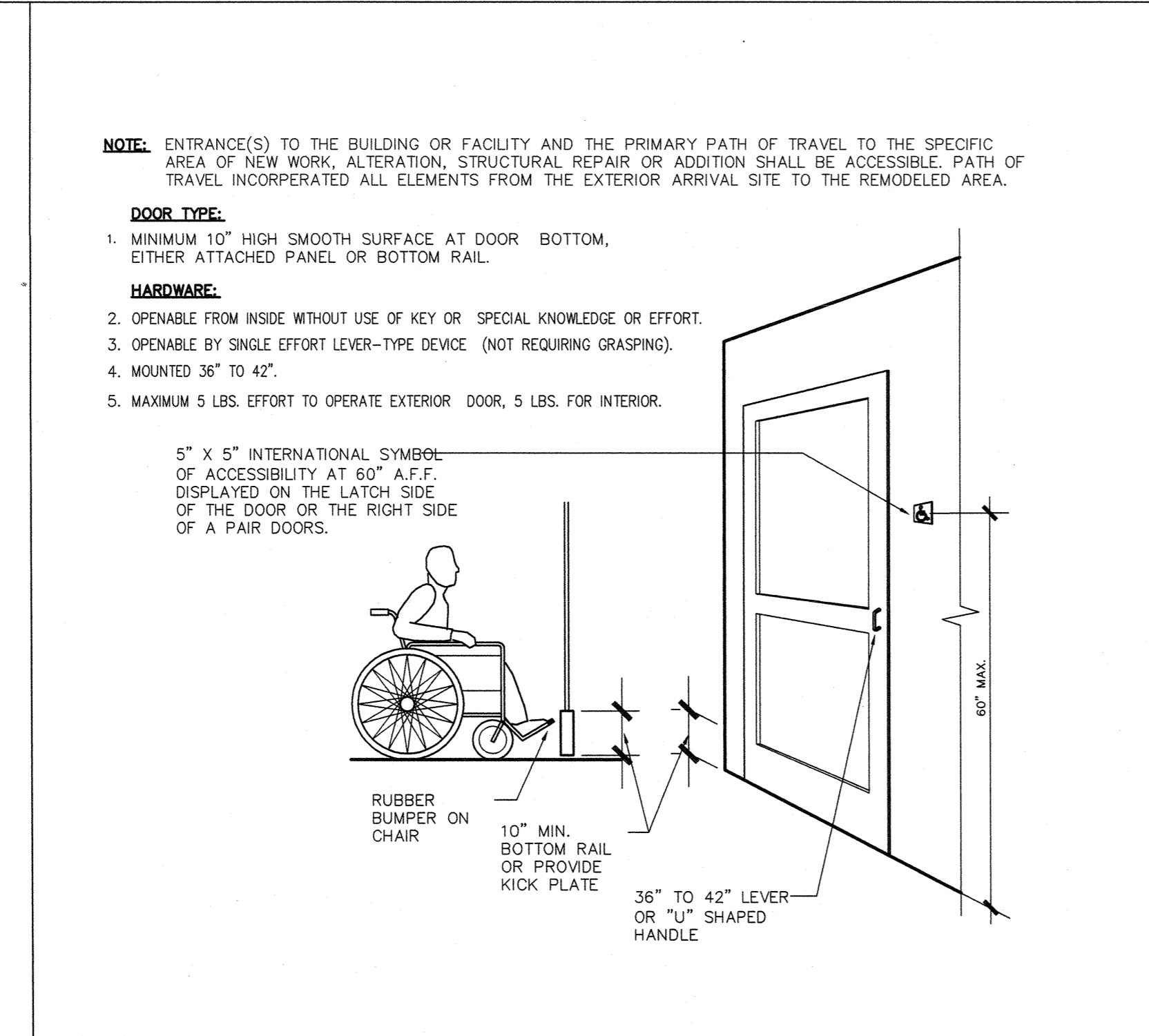
Address



ENLARGED HANDICAP PARKING AND PATH OF TRAVEL FOR 3 HUTTON (REFERENCE ONLY)

ALL WORK COMPLETED
CONSTRUCTION KEY NOTES

- EXISTING WARNING SIGNAGE ABOUT UNAUTHORIZED USE TO REMAIN, SEE DETAIL 4/HC2.
- PAINT EXISTING WHEEL STOPS BLUE AT H/C PARKING STALLS, TYPICAL.
- PROVIDE NEW MATCHING WHEEL STOPS PAINTED BLUE AT H/C PARKING STALLS WHERE MISSING - SEE SHADED WHEEL STOPS, SEE DETAIL 8/HC2.
- PROVIDE NEW PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS THE WORDS "NO PARKING" AT ALL H/C LOADING AND UNLOADING ACCESS AISLES. SEE SECTION 1129.4, ITEM 4.
- PROVIDE NEW ACCESSIBLE H/C PARKING SIGNAGE, SEE DETAIL 3/HC2.
- REMOVE NON-COMPLIANT H/C PARKING SIGNAGE - ALSO IN WRONG LOCATION.
- PATH OF TRAVEL WHERE THE SHORTEST DISTANCE TO MAIN ENTRANCE TO PARKING IS AVAILABLE W/ LESS THAN A 2% SLOPE IN ANY DIRECTION.
- EXISTING VAN H/C PARKING STALL SIGNAGE TO REMAIN.
- CONTRACTOR TO REMOVE ANY ROUGH OR RAISED EXPANSION JOINTS OR CRACKS AT OR ALONG PATH OF TRAVEL BY GRINDING OR DEMO & REPAIR TO ACHIEVE A SMOOTH BROOM NON-SLIP SURFACE (MATCHING SURFACE). JOINTS NOT TO EXCEED 1/2" IN VERTICAL HT. & A 1/4" SLOPE.
- NEW OR RELOCATED INTERNATIONAL SIGN OF ACCESSIBILITY TO BE AT 60" A.F.F., SEE DETAIL 16/HC2.
- IF CARPET/ PAD OR CARPET TILE IS USED ON THE GROUND OR FLOOR SURFACE, THEN IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD; AND HAVE A LEVEL, LOOP, TEXTURED LOOP, LEVEL-CUT PILE, OR LEVEL-CUT/INOUT PILE TEXTURE. THE MAX. PILE HEIGHT SHALL BE 1/2" INCH. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH THE REQUIREMENTS FOR CHANGES IN LEVEL, CSC 11248.3.
- CURB/ CONCRETE WALK IS FLUSH WITH ASPHALT H/C PARKING AREA; NO CURB RAMPS REQUIRED, TYPICAL AT ALL H/C LOADING AND UNLOADING AREAS & TO PATH OF TRAVEL.
- SEE ENLARGED PLAN FOR ADDITIONAL REQUIREMENTS & DIMENSIONS.



NOTES FOR PATH OF TRAVEL

TYPICAL ACCESSIBLE ENTRY REQUIREMENTS

TYPICAL H/C PARKING DETAILS

SITE PLAN/ KEY PLAN

SCALE: N.T.S. **B** SCALE: N.T.S. **A**

CBRE
 CB RICHARD ELLIS
 CBRE PROJECT MANAGEMENT GROUP
 3501 JAMBOREE, SUITE #100, NEWPORT BEACH, CA 92660
 PHONE: 949-725-8588 FAX: 949-725-8589

CONSULTANTS:
O3 DESIGN
 2070 BUSINESS CTR DR.
 SUITE 220
 IRVINE, CA 92612
 949-757-8888 PHONE
 949-225-4400 FAX

OWNER:
3 HUTTON CENTER

TENANT/ADDRESS:
EIGHTH FLOOR
3 HUTTON CENTER DR
SANTA ANA, CA 92707

DRAWINGS:
CORRIDOR AND RESTROOMS
COMMON AREA UPGRADE

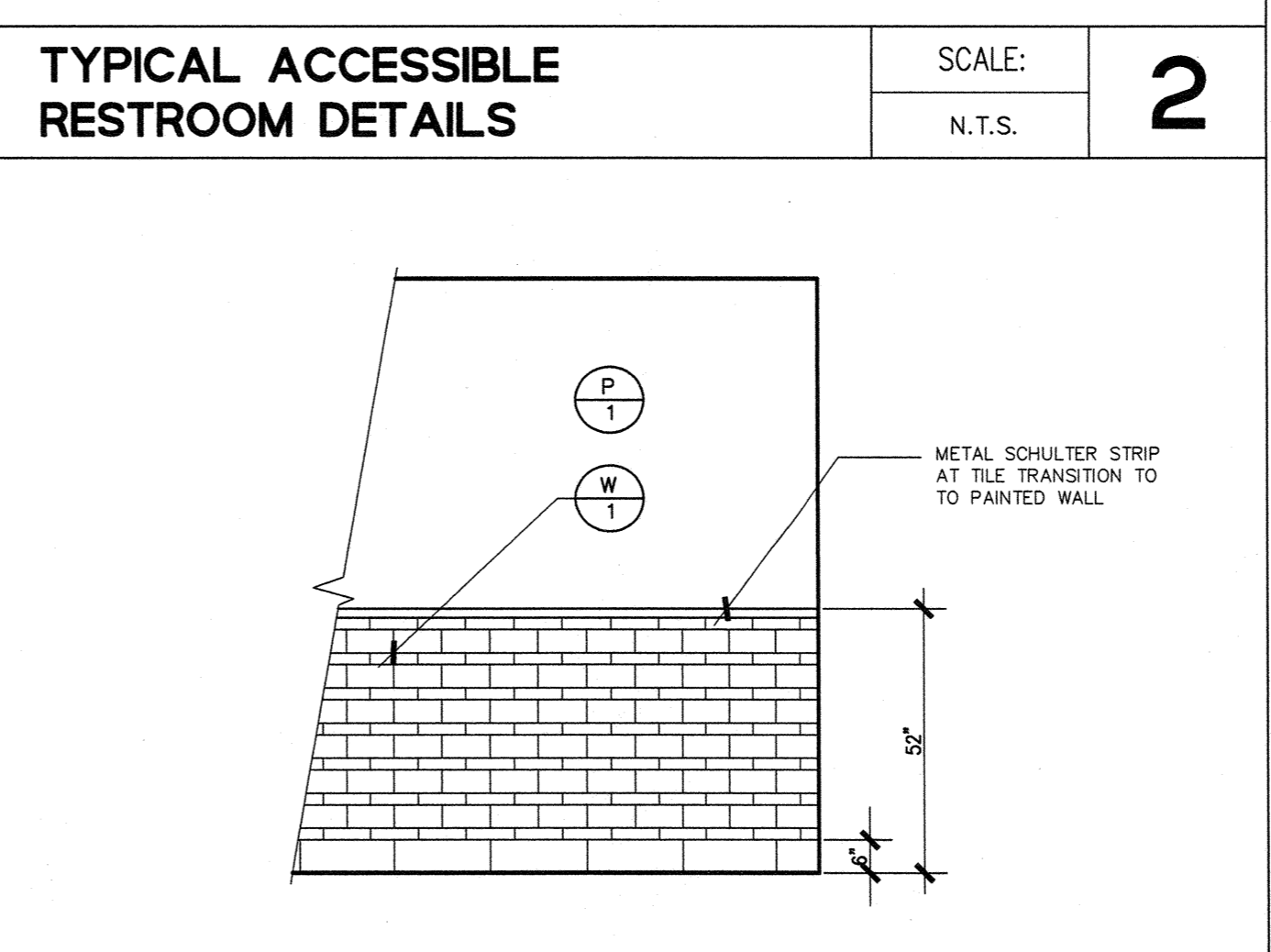
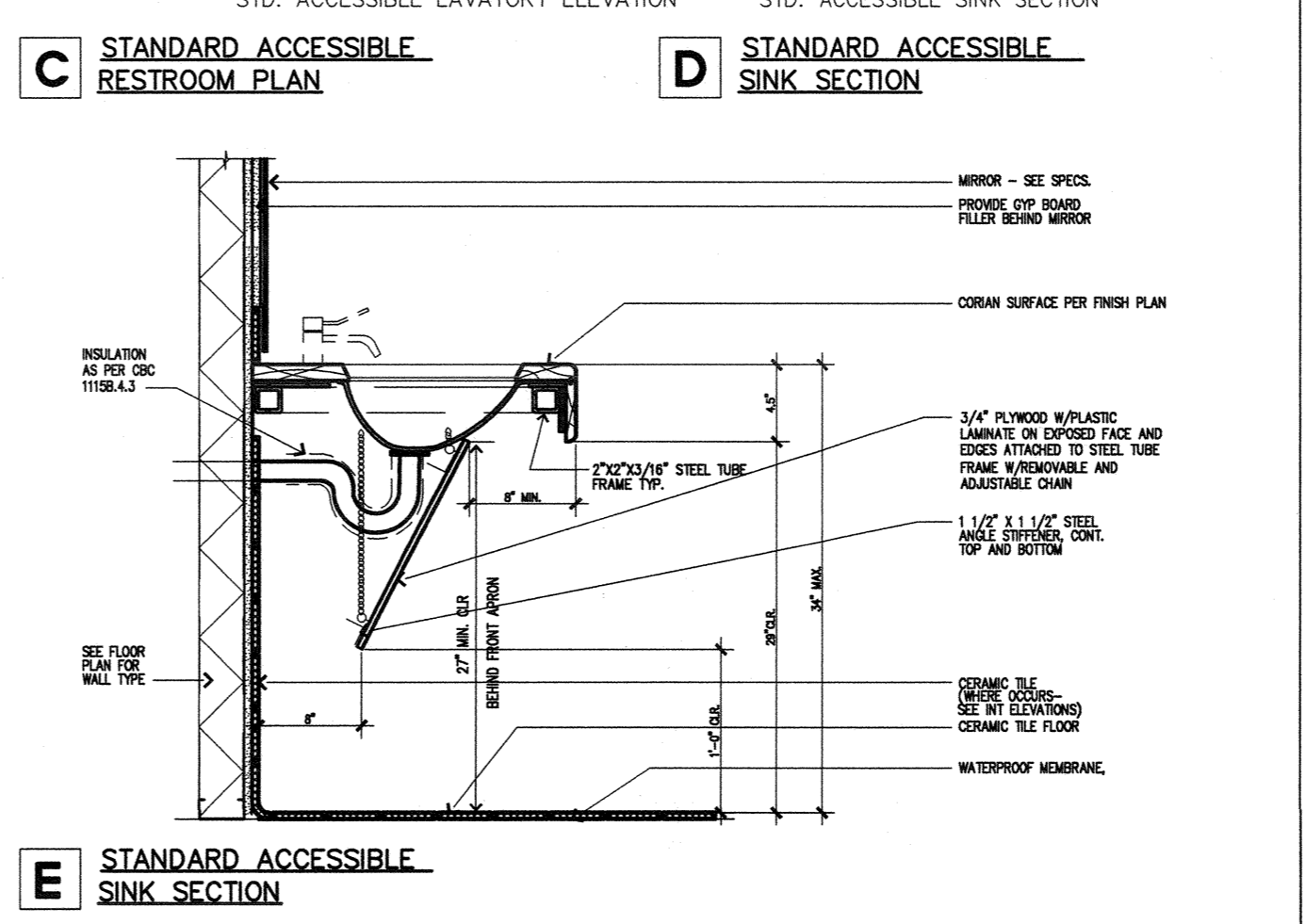
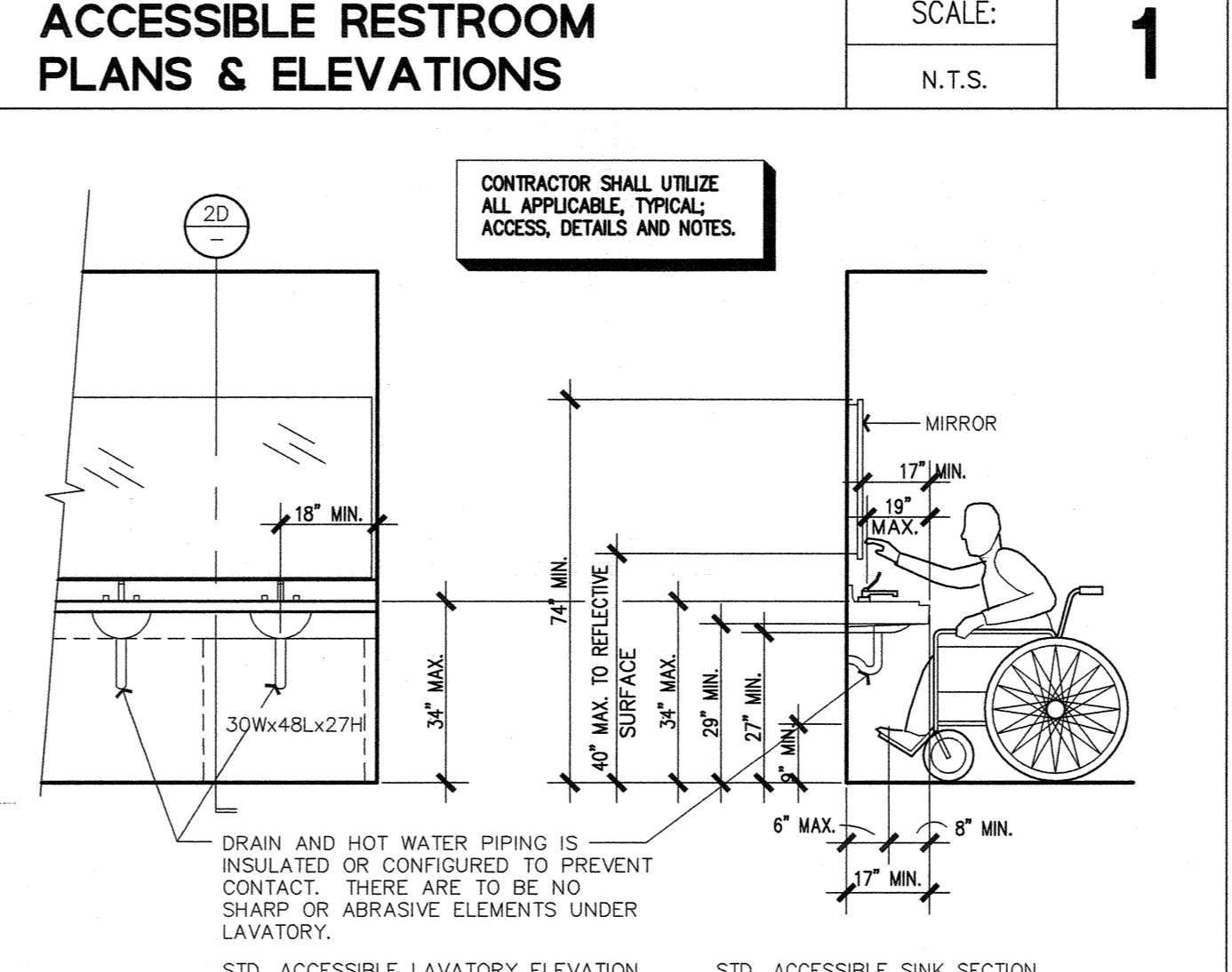
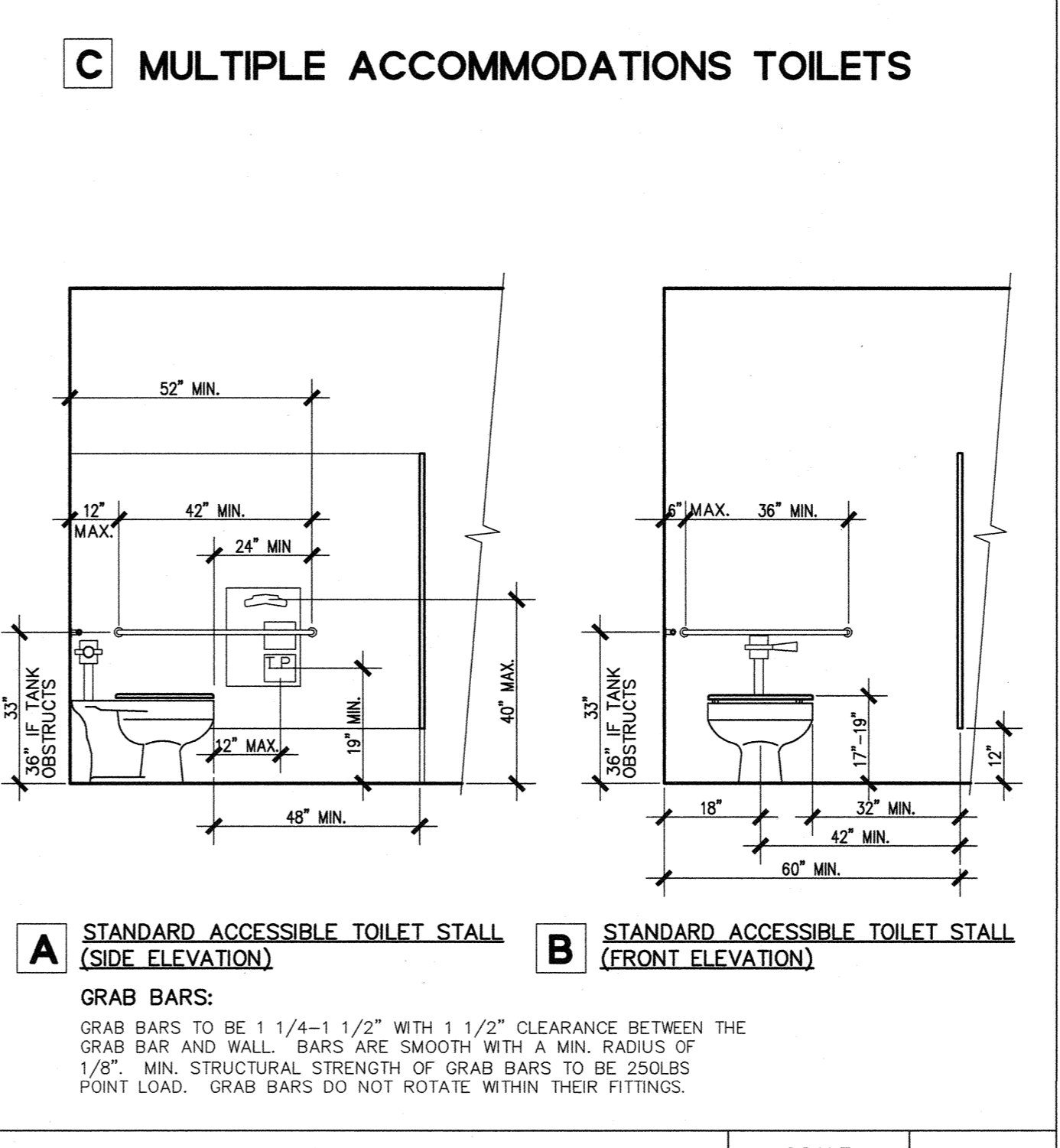
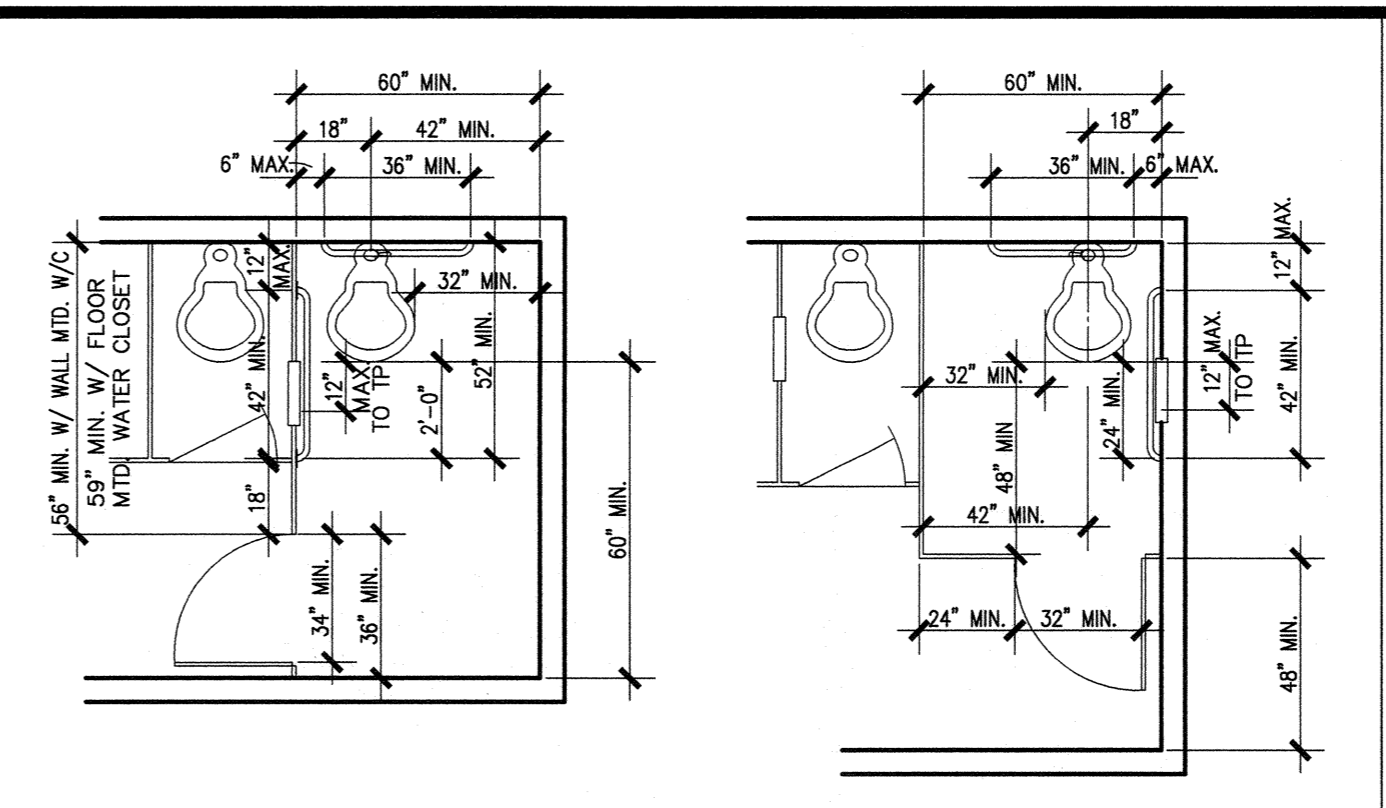
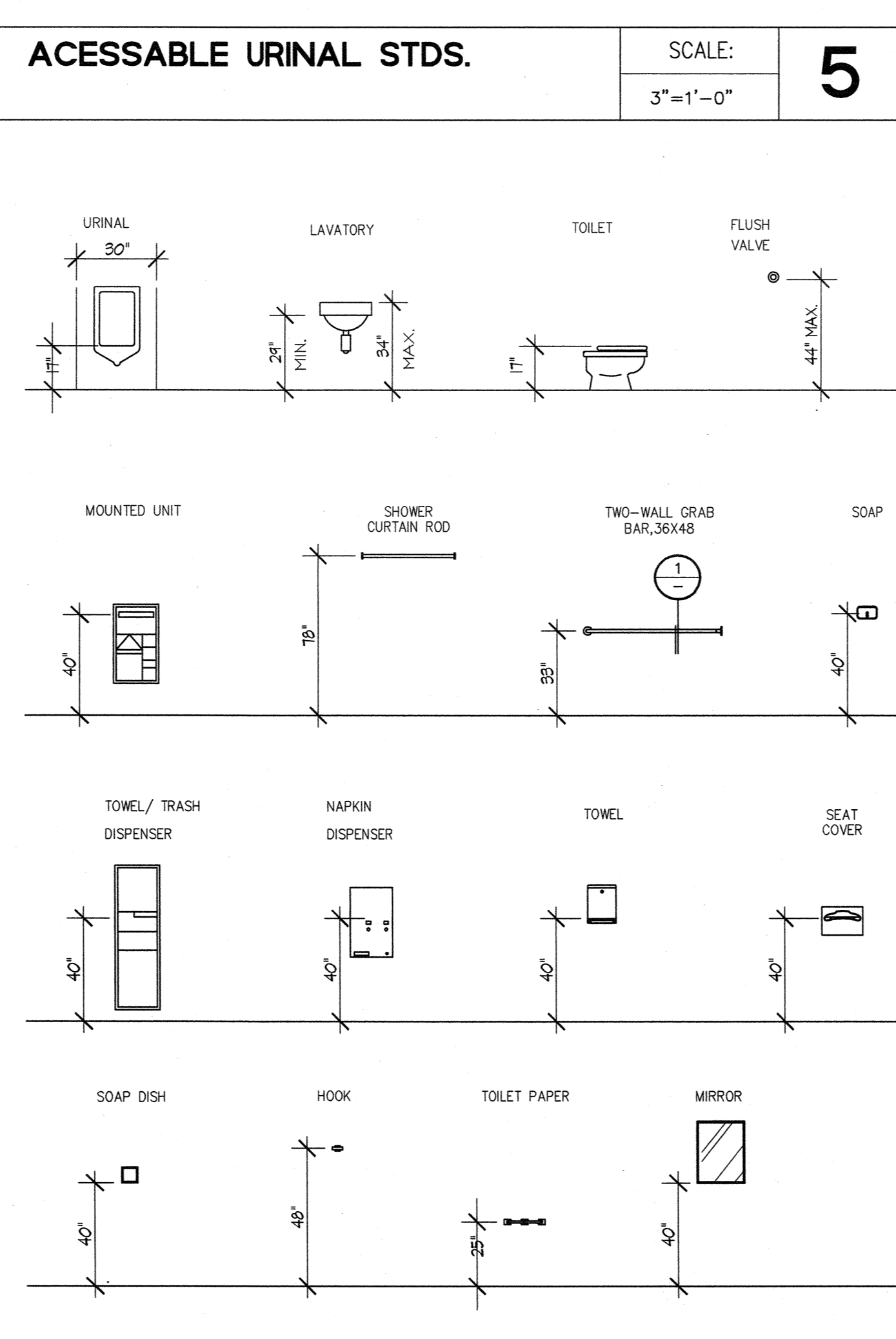
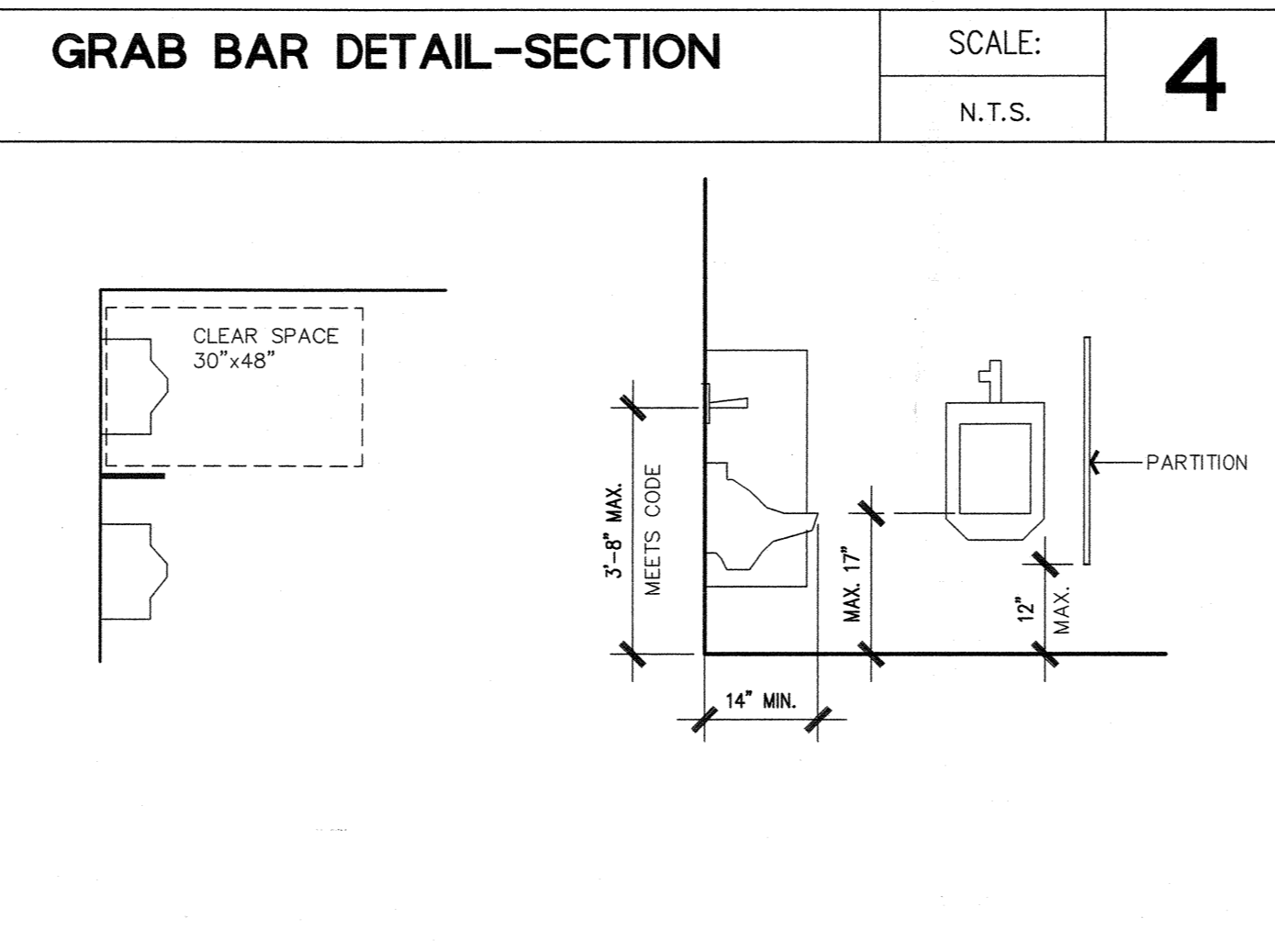
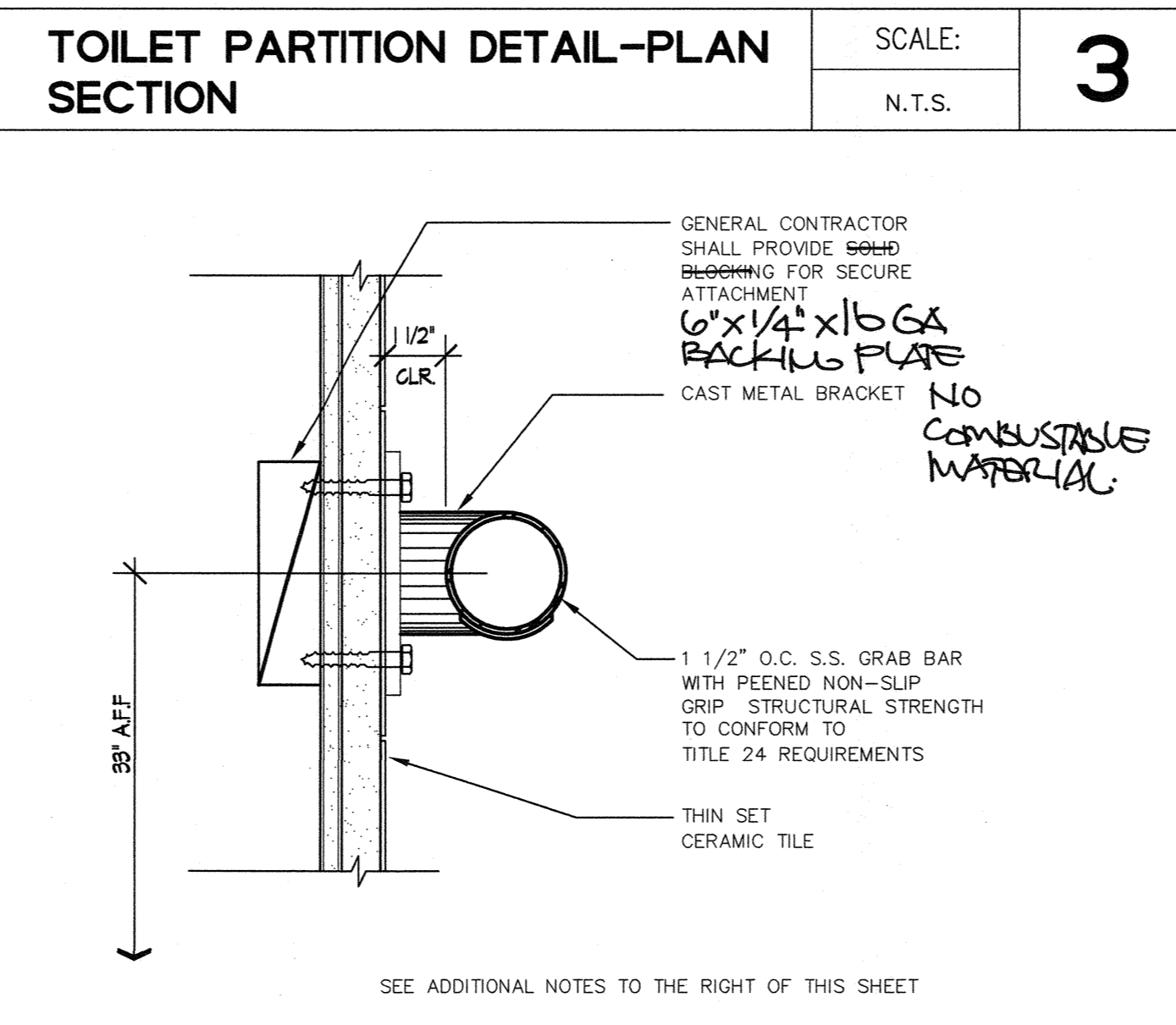
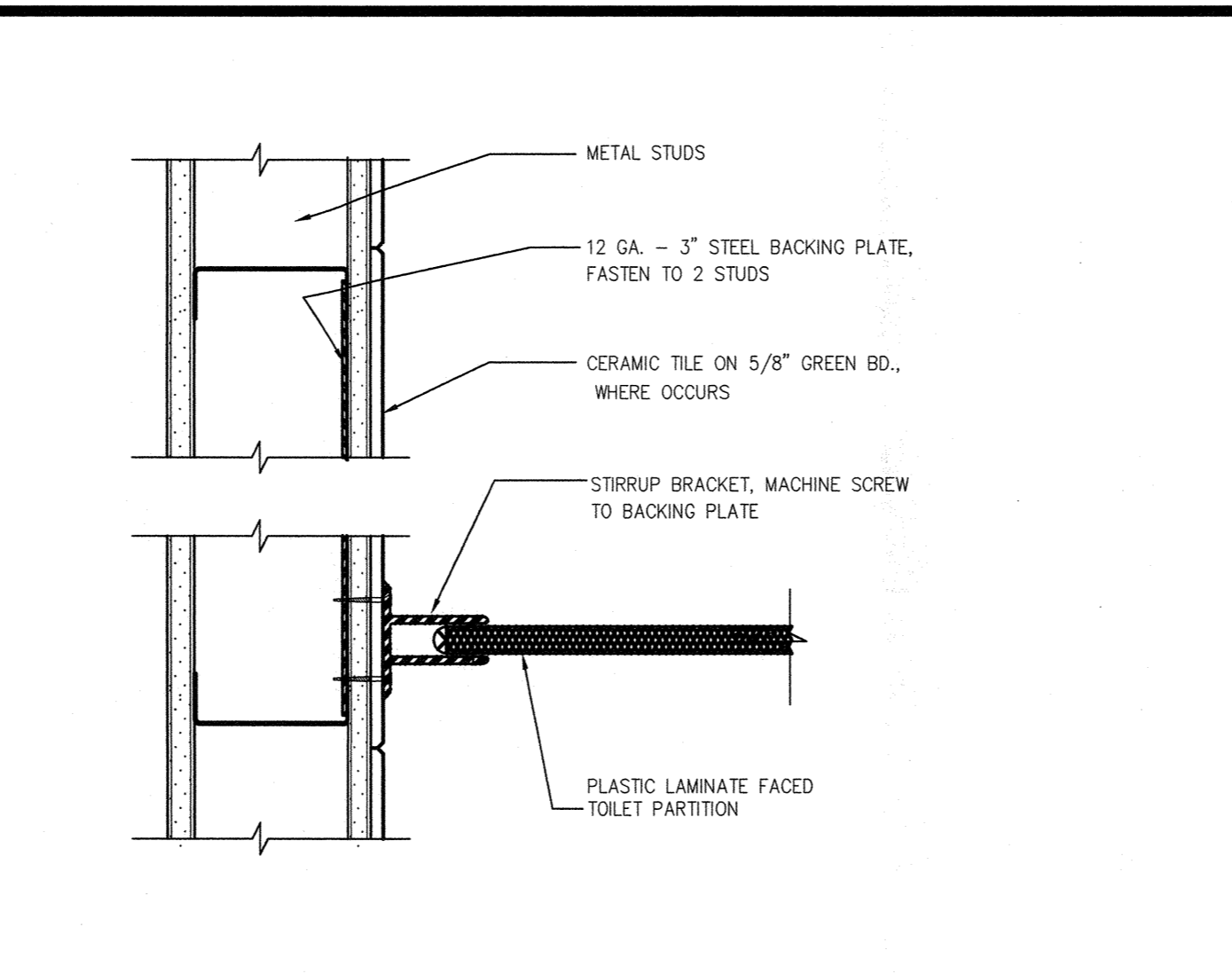
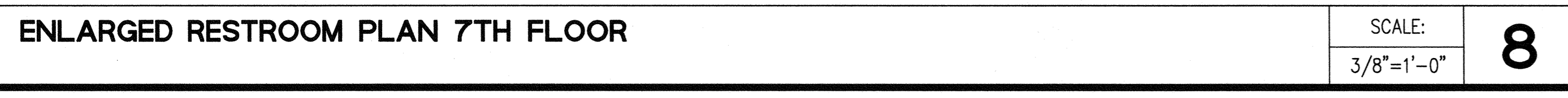
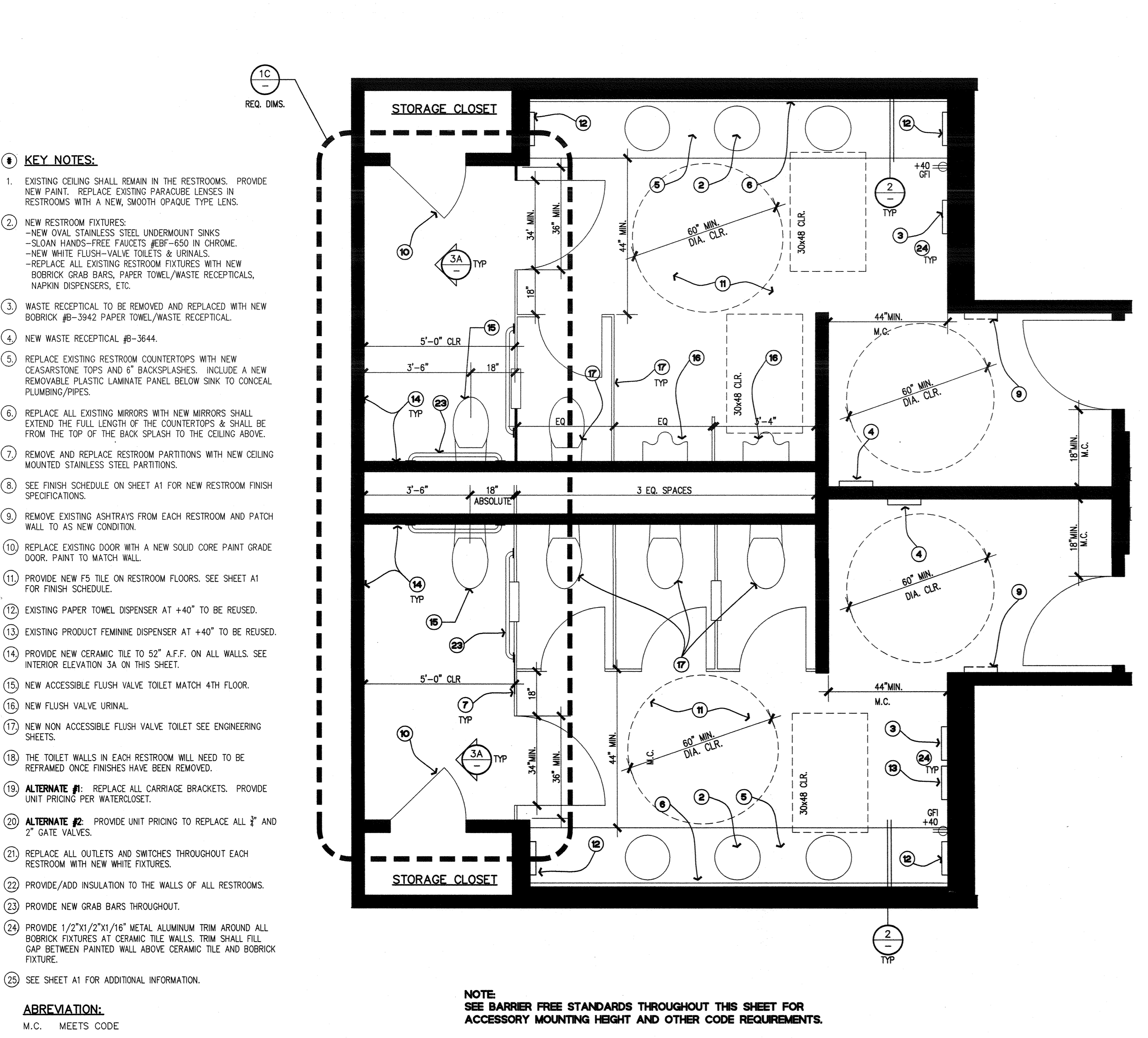
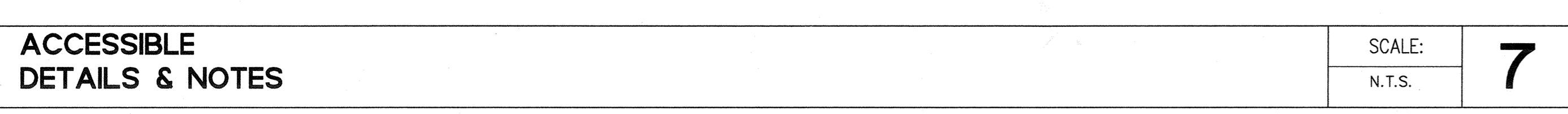
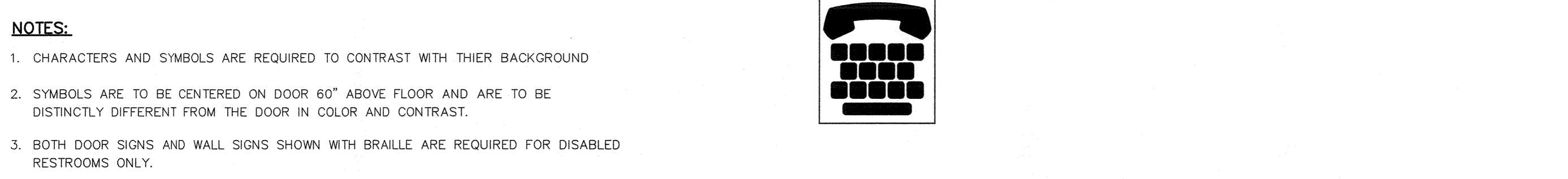
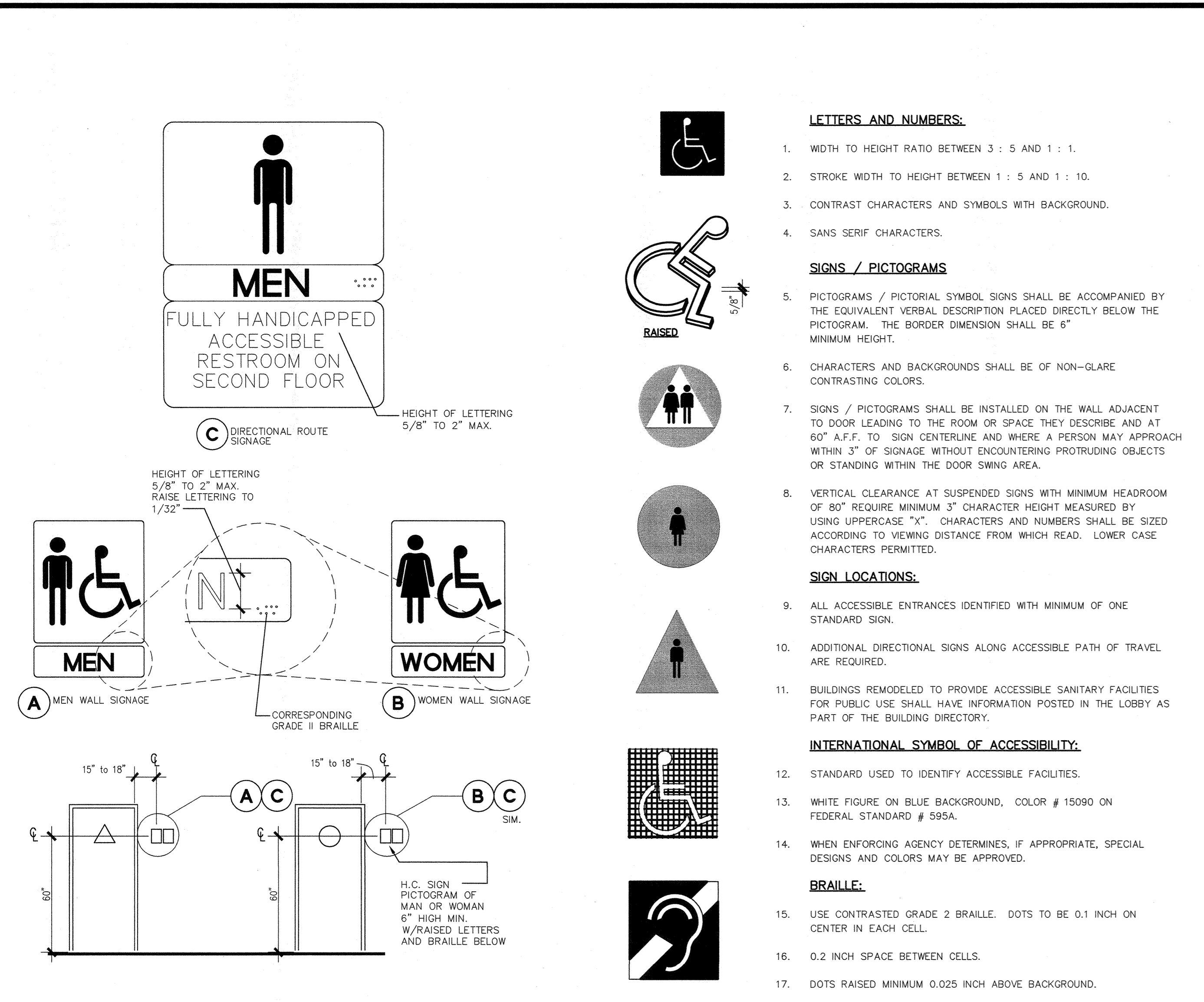
DRAWINGS:
SITE / PATH OF TRAVEL
(REFERENCE ONLY)

STAMP
 CALIFORNIA COUNCIL FOR
CCIDC
 SHEILA T. ANDELIN
 CERTIFIED INTERIOR DESIGNER
 5978 EXPRES 7-23-13
 CALIFORNIA COUNCIL FOR
 MULTIDISCIPLINED INTERIOR DESIGN

REVISIONS:

DISCLAIMER/COPY RIGHTS:
 THIS DRAWING AND ALL THE ACCOMPANYING INFORMATION IS THE PROPERTY OF O3 DESIGN AND SHALL BE KEPT IN CONFIDENCE AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF O3 DESIGN. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

DATE: 02/06/2011
 JOB NO: -
 DRAWN BY: H.N.
 CHECKED BY: S.A.
 SCALE: AS NOTED
 SHEET NO:
HC1



ACCESSIBILITY NOTES:

- SANITARY FACILITIES THAT SERVE BUILDINGS, FACILITIES OR PORTIONS OF BUILDINGS OR FACILITIES THAT ARE REQUIRED TO BE ACCESSIBLE TO PERSONS WITH DISABILITIES ARE REQUIRED TO BE ACCESSIBLE.
- WHERE SEPARATE FACILITIES ARE PROVIDED FOR NON-DISABLED PERSONS OF EACH SEX, SEPARATE FACILITIES SHALL BE PROVIDED FOR PERSONS WITH DISABILITIES OF EACH SEX ALSO. WHERE UNSEX FACILITIES ARE PROVIDED FOR NON-DISABLED PERSONS, SUCH UNSEX FACILITIES OR PORTIONS OF FACILITIES SHALL BE PROVIDED FOR PERSONS WITH DISABILITIES.
- EMPLOYEES WORK STATIONS SHALL BE LOCATED ON ACCESSIBLE LEVELS AND SHALL BE SIZED AND ARRANGED TO PROVIDE ACCESS TO EMPLOYEES WITH DISABILITIES.
- A CLEAR FLOOR SPACE AT LEAST 60" WIDE AND EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT ACCESSIBLE STORAGE FACILITIES.

RESTROOM FINISH NOTE:

FINISHES: PROVIDE A 48" HIGH CERAMIC TILE WAINSCOT THROUGHOUT (SEE FINISH PLAN) RESTROOMS OVER MOISTURE RESISTANT DRYWALL OR GREEN BOARD TO A MIN. HT. OF 48" WITH 6" MIN. WATERPROOF COVER BASE. WALLS AND CEILING ABOVE WAINSCOT TO BE A CLEANABLE SURFACE SUCH AS A GLOSS OR SEMI-GLOSS WASHABLE PAINT FINISH. REFER TO FINISH PLAN FOR SPECIFICATIONS.

SANITARY FACILITIES NOTES:

- ALL RESTROOM FIXTURES AND ACCESSORIES SHALL COMPLY WITH ADA CODES.
- ON DOORWAYS LEADING TO MEN'S SANITARY FACILITIES, AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD SHALL BE PROVIDED AND ON DOORWAYS LEADING TO WOMEN'S SANITARY FACILITIES A CIRCLE 1/4" THICK AND 12" IN DIAMETER SHALL BE PROVIDED. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" TO CENTER AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
- TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING OR PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. WATER CLOSETS: SEAT HEIGHT IS TO BE MINIMUM 17" ABOVE FINISHED FLOOR HEIGHT, BUT NO GREATER THAN 19".
- LAVATORY: PROVIDE AT LEAST ONE LAVATORY COMPLYING WITH THE FOLLOWING CRITERIA: MINIMUM 28" CLEARANCE FROM THE FLOOR TO THE BOTTOM OF THE APRON AND KNEE CLEARANCE UNDER THE FRONT UP 27" TALL AND 30" WIDE AND WITH 8" MINIMUM DEPTH AT THE TOP TOE CLEARANCE AT THE BOTTOM AND MEASURED FROM THE FRONT OF THE LAVATORY 9" HIGH, 30" WIDE AND 17" DEEP. THE HEIGHT OF THE LAVATORY SHALL BE 34" ALL HANDICAPPED WATER CLOSET COMPARTMENT DOORS SHALL BE SELF-CLOSING. ALL MANUALLY OPERATED SWITCHES AND CONTROLS SHALL BE LOCATED BETWEEN 36" AND 48" A.F.F.
- CONVENIENCE OUTLETS SHALL BE LOCATED A MINIMUM OF 15" FROM THE FLOOR.
- WHERE URINALS ARE PROVIDED, AT LEAST ONE WITH A RIM PROTECTING A MINIMUM OF 14" FROM THE WALL AND AT:
- FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS PER FOOT.
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN AT LEAST 10 SECONDS.
- CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. SEC 5-1502.
- ALL TOILET TISSUE DISPENSERS SHALL BE INSTALLED 12" OF THE FRONT EDGE OF THE TOILET SEAT AND A MAXIMUM 19" ABOVE THE FLOOR SHALL BE PROVIDED. APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST:
- TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALL WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED AND 48" AND 48" MINIMUM DEPTH FOR STRUCTURAL ELEMENTS. THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.
- WHEN STANDARD COMPARTMENT DOORS ARE USED, WITH A MINIMUM 9" CLEARANCE FOR FOOTRESTS UNDERNEATH AND A SELF-CLOSING DEVICE CLEARANCE AT THE STRIKE EDGE, AS SPECIFIED IN SECTION 3304(1.1)2C, IS NOT REQUIRED.
- THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE HATCH. THE LATCH SHALL BE FLOW-OVER TYPE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
- TOILET ROOMS SHALL BE PROVIDED WITH VERTICAL DUCT NOT LESS THAN 100 SQUARE INCHES IN AREA FOR THE FIRST WATER CLOSET PLUS 50 ADDITIONAL SQUARE INCHES FOR EACH ADDITIONAL WATER CLOSET, OR A MECHANICALLY OPERATED EXHAUST SYSTEM OF PROVED TYPE AND COMPLETE CHANGE OF AIR EVERY 15 MINUTES. SUCH MECHANICALLY OPERATED EXHAUST SYSTEMS SHALL BE CONNECTED DIRECTLY TO THE OUTSIDE, AND THE POINT OF DISCHARGE SHALL BE AT LEAST 3 FEET FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING. CBC SECTION 1202.2.1. (SECOND PARAGRAPH).
- PLUMBING FACILITIES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 4 OF THE UNIFORM PLUMBING CODE.
- SANITATION FACILITY TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES. WALLS WITHIN 2 FEET OF THE FRONT AND SIDES OF URINALS AND WATER CLOSETS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 4 FEET. REFER TO CBC SECTION 807 FOR ADDITIONAL REQUIREMENTS.
- PER SECTION 1202.2.1, THE MECHANICALLY OPERATED EXHAUST SYSTEM SHALL BE CAPABLE OF PROVIDING A COMPLETE CHANGE OF AIR EVERY 15 MINUTES, SHALL BE CONNECTED DIRECTLY TO THE OUTSIDE, AND THE POINTS OF DISCHARGE SHALL BE AT LEAST 3 FEET (914 mm) FROM ANY OPENING WHICH ALLOWS AIR ENTRY TO OCCUPIED PORTIONS OF THE BUILDING.
- WHEN CORRIDOR WALLS ARE REQUIRED TO BE OF ONE-HOUR FIRE-RESISTIVE CONSTRUCTION BY SECTION 1008.7, EXTERIOR INTERIOR DOOR OPENING SHALL BE PROTECTED BY TIGHT-FITTING SMOKE-AND-DRAFT-CONTROL ASSEMBLY HAVING A FIRE-PROTECTION RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE WITH U.S.C. STANDARD NO. 7-2. SAID DOORS SHALL NOT HAVE LOUVERS. THE DOOR AND FRAME SHALL BEAR AN APPROVAL LABEL OR OTHER IDENTIFICATION SHOWING THE RATING THEREOF. THE SAME OF THE MANUFACTURER AND THE IDENTIFICATION SHOWING THE RATING THEREOF, THE SAME OF THE MANUFACTURER AND THE IDENTIFICATION OF THE SERVICE CONDUCTING THE INSPECTION OF MATERIALS AND WORKMANSHIP AT THE FACTORY DURING FABRICATION AND ASSEMBLY. DOORS SHALL BE MAINTAINED SELF-CLOSING OR SHALL BE AUTOMATIC CLOSING BY ACTUATION A SMOKE DETECTOR IN ACCORDANCE WITH SECTION 715.2. SMOKE-AND-DRAFT-CONTROL DOOR ASSEMBLIES SHALL BE PROVIDED WITH A GASKET SO INSTALLED AS TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP. CBC SECTION 1008.8.1.
- BATHROOM ACCESSORIES, SUCH AS GRAB BARS, TOWEL BARS, SOAP DISHES, ETC., ON OR WITHIN WALLS SHALL BE SEALED AGAINST MOISTURE. UBS SECTION 807.1.2.
- FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL NOT EXCEED 5 POUNDS (22.2N). LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISM ARE ACCEPTABLE. SPECIFY ON PLANS. CBC SECTION 1504.3.
- MAXIMUM FLUSH VOLUMES AND FLOW RATES:
 - WATER CLOSETS: 1.6 GALLONS PER FLUSH (BLOWOUT TYPE EXCEPT)
 - URINALS: 1.0 GALLONS PER FLUSH
 - SHOWERHEADS: 2.5 GALLONS PER MINUTE
 - FAUCETS: 2.2 GALLONS PER MINUTE (SINKS AND LAVS)
- FITTINGS MANUFACTURED ON OR AFTER MARCH 20, 1992, SHALL BE MARKED WITH THESE FLOW RATINGS AND CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION. (STATE OF CALIFORNIA).

GRAB BARS

- GRAB BARS AT THE SIDE SHALL BE AT LEAST 42" LONG WITH THE FRONT END POSITIONED 24" IN FRONT OF THE WATER CLOSET STOOL, AND GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG.
- THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
- IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2".
- A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
- EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8"
- THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250-LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
 - SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250-LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESS SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
 - SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250-LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER HAS THE SMALLER ALLOWABLE LOAD.
 - TENSION FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250-LB. POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250-LB. POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.
 - GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

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CORRIDOR AND RESTROOMS COMMON AREA UPGRADE
DRAWINGS:
STANDARD ACCESSIBLE RESTROOM DETAILS

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SHEILA P. ANDELIN
CERTIFIED INTERIOR DESIGNER
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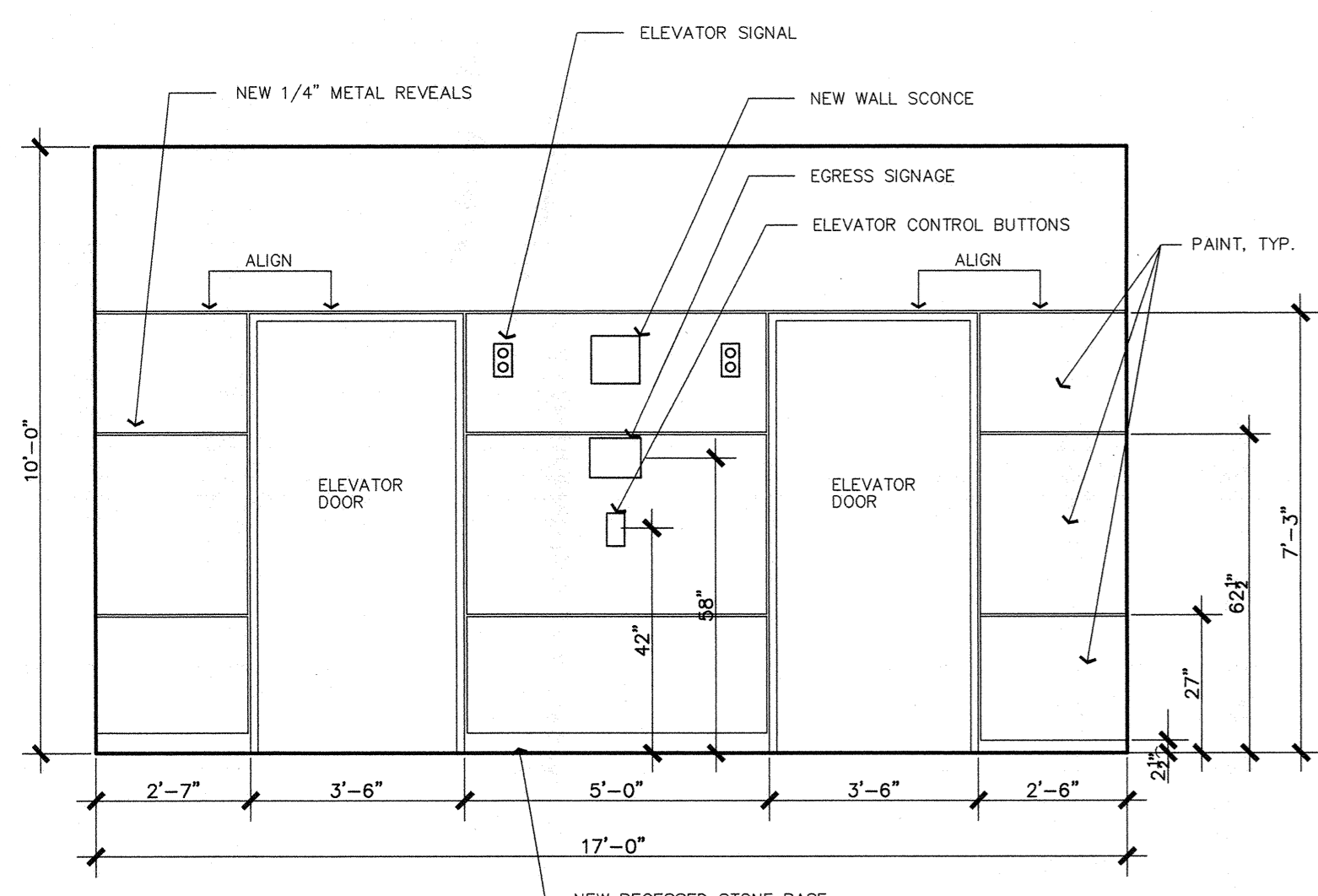
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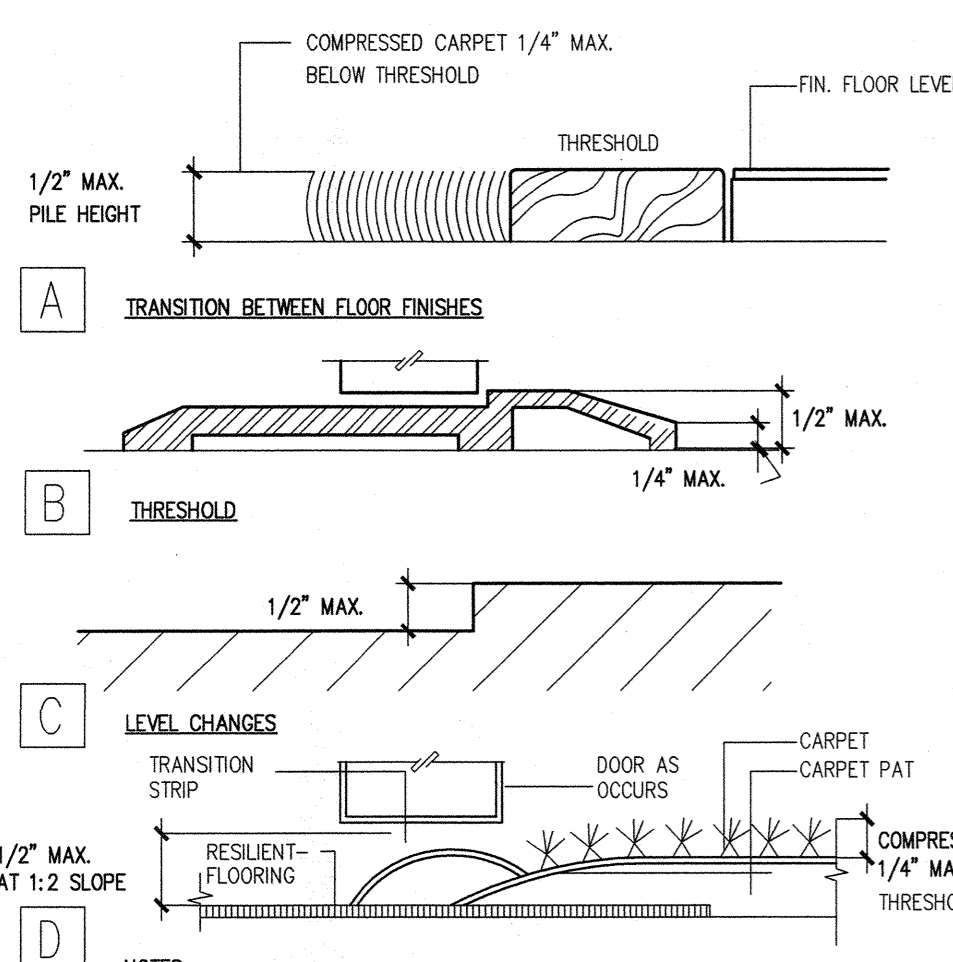
HC2



B TYPICAL ELEVATOR LOBBY REVEAL DETAIL

INTERIOR ELEVATIONS

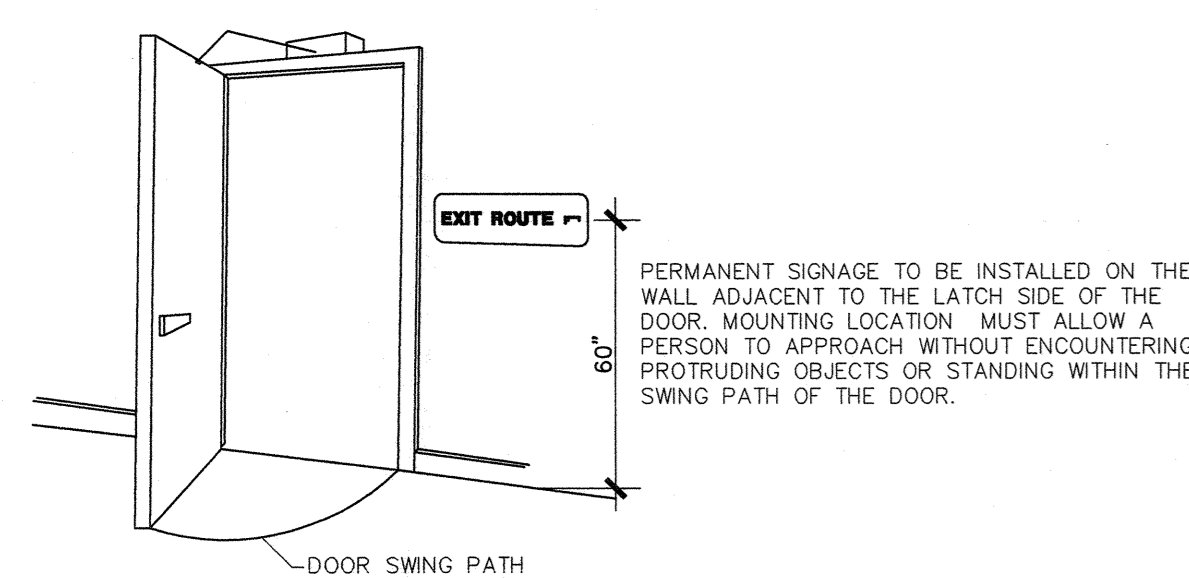
SCALE: 3/8"=1'-0" **2**



- NOTES:**
- 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.
 - 1 : 2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL LEVEL CHANGE.
 - 1/4" MAXIMUM VERTICAL LEVEL CHANGE.

TYPICAL THRESHOLD REQ.

SCALE: 3"=1'-0" **3**



EXIT ROUTE

- LETTERS AND NUMERALS SHALL BE RAISED 1/32" UPPER CASE, SANS SERIF TYPE AND SHALL BE ACCOMPANIED WITH "GRADE II BRAILLE, RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2".
- CORRESPONDING GRADE II BRAILLE STANDARD DIMENSIONS:
- DOT DIAMETER .059 INCHES
 - INTER-ROW SPACING .090 INCHES
 - HORIZONTAL SEPARATION BETWEEN CELLS .241 INCHES
 - VERTICAL SEPARATION BETWEEN CELLS .395 INCHES

EXIT

A GRADE LEVEL EXTERIOR EXIT DOOR: EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD, "EXIT" PER 2007 CBC 1011.3

EXIT STAIRS DOWN

B STAIR OR RAMP EXIT: EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE EXIT SIGN THAT STATES "EXIT STAIR DOWN", "EXIT RAMP DOWN", "EXIT STAIR UP" OR "EXIT RAMP UP", AS APPROPRIATE, PER 2007 CBC 1011.3

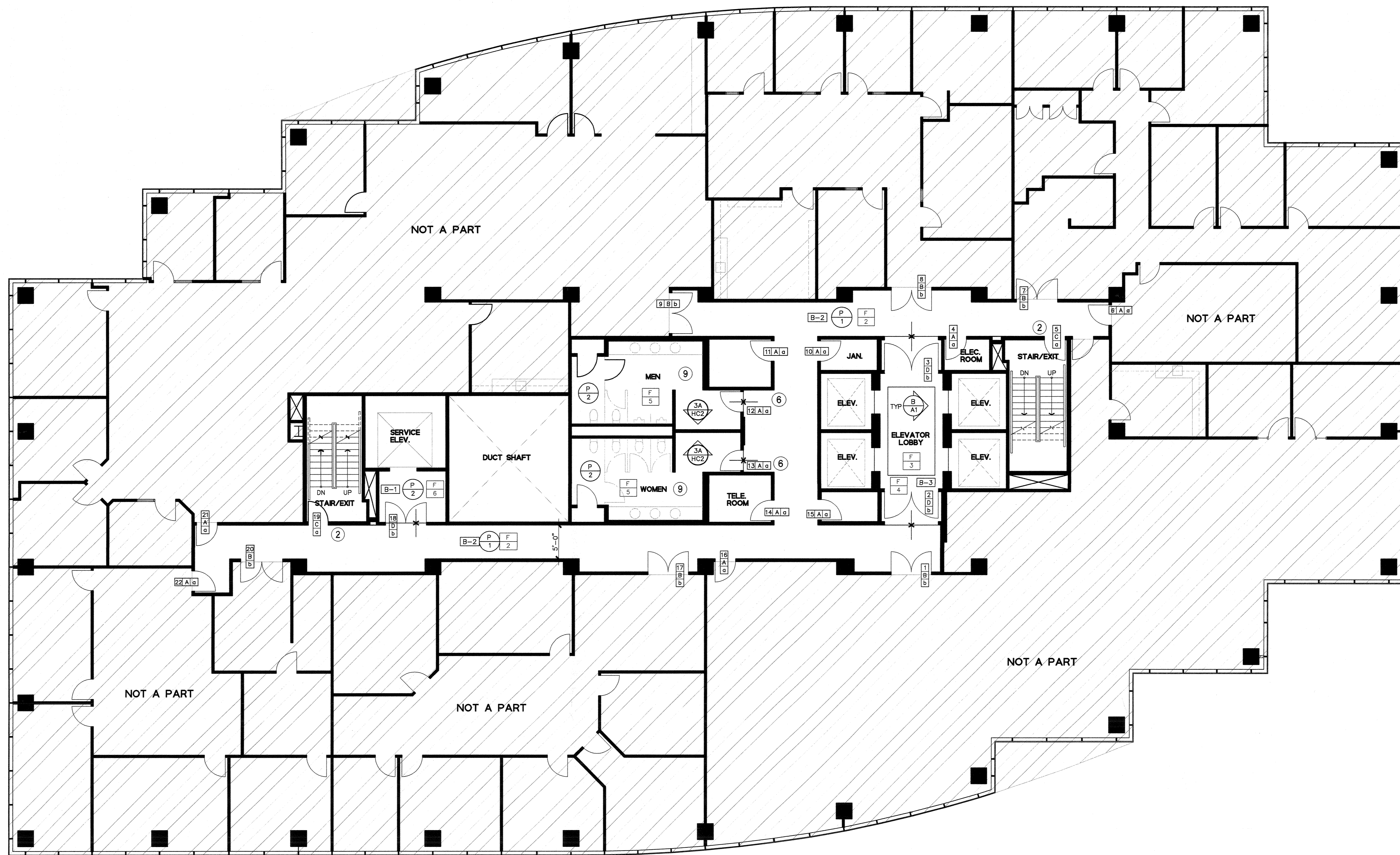
EXIT ROUTE

C CORRIDOR EXIT DOOR: EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR ARE TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE" PER 2007 CBC 1011.3

C D HORIZONTAL EXIT: EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT" PER 2007 CBC 1011.3

TYPICAL TACTILE EXIT ROUTE SIGNAGE W/ BRAILLE

SCALE: N.T.S. **4**



CONSTRUCTION / FINISH PLAN

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

CONSTRUCTION / FINISH NOTES

1. ALL INTERIOR WALLS & DOORS INDICATED ON THE PLAN ARE EXISTING UNLESS NOTED OTHERWISE, SEE LEGEND.
2. EXISTING EXIT SIGN(S) AS REQUIRED AT STAIR EXIT DOORS. CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT FOR ALL NEW SIGNAGE. SEE DETAIL #4, THIS SHEET.
3. PROVIDE FIRE EXTINGUISHERS THROUGHOUT AT MAX. 75' APART AS REQUIRED. 2A10BC TYPE FIRE EXTINGUISHER / 5 LB. BOTTLE / AMEREX 500, OR EQUAL.
4. CONTRACTOR SHALL PROVIDE ANY REQUIRED FIRE/LIFE SAFETY UPGRADES. ALL STROBE LIGHTS SHALL BE WHITE THROUGHOUT THE FLOOR. REPLACE AS REQUIRED.
5. PATCH ANY HOLES IN EXISTING DRYWALL TO AS NEW CONDITION.
6. EXISTING RESTROOM SIGNAGE TO REMAIN. SEE DETAIL 7/HC2.
7. PREP EXISTING CONCRETE SLAB AS REQUIRED TO A SMOOTH AND LEVEL SURFACE PRIOR TO INSTALLATION OF NEW FLOOR FINISH.
8. MAXIMUM FLAME SPREAD CLASSIFICATION TO COMPLY WITH CBC 2007 TABLE 8-A & 8-B FLAME-SPREAD INDEX = CLASS 3 (76-200) FOR ROOMS OR AREAS.
9. CONTRACTOR SHALL PROVIDE RESTROOM UPGRADES PER NOTES BELOW. SEE ENLARGED PLAN ON SHEET HC2.
 - A. EXISTING CEILING SHALL REMAIN IN THE RESTROOMS. PROVIDE NEW PAINT. REPLACE EXISTING PARABOLIC LENSES IN RESTROOMS AND AREA OUTSIDE RESTROOMS WITH NEW A NEW, SMOOTH TYPE GLASS.
 - B. NEW RESTROOM FIXTURES:
 - NEW OVAL STAINLESS STEEL UNDERMOUNT SINKS (MATCH 4TH FLOOR RESTROOMS).
 - SLOAN HANDS-FREE FAUCETS #EFP-650 IN CHROME.
 - NEW FLUSH-VALVE TOILETS & URINALS: SLOAN EBV-89-AM OPERATOR.
 - REPLACE EXISTING BOBBICK FIXTURES.
 - REPLACE ALL EXISTING RESTROOM FIXTURES WITH NEW BOBBICK GRAB BARS, PAPER TOWEL/WASTE RECEPTICALS, NAPKIN DISPENSERS, ETC.
 - C. PROVIDE AN ADDITIONAL PAPER TOWEL/WASTE RECEPTICAL IN EACH RESTROOM.
 - D. PROVIDE NEW CERAMIC TILE ON ALL WALLS. SEE ELEVATION ON 3A, SHEET HC2.
 - E. REPLACE EXISTING RESTROOM COUNTERTOPS WITH NEW CEASARSTONE TOPS AND 6" BACKSPLASHES. INCLUDE A REMOVABLE PLASTIC LAMINATE PANEL BELOW SINK TO CONCEAL PLUMBING/PIPES.
 - F. REPLACE ALL EXISTING MIRRORS WITH NEW.
 - G. REPLACE RESTROOM PARTITIONS WITH NEW STAINLESS STEEL PARTITIONS.
 - H. SEE FINISH SCHEDULE FOR NEW RESTROOM FINISH SPECIFICATIONS.
 - I. REMOVE EXISTING ASHTRAYS FROM EACH RESTROOM AND PATCH WALL TO AS NEW CONDITION.
 - J. PROVIDE NEW F1 TILE ON RESTROOM FLOORS.
10. CLEAN SPACE AND TOUCH-UP ALL EXISTING RESTROOM DOORS. TOUCH-UP ALL EXISTING FRAMES WITH BLACK PAINT.
11. ALL OUTLETS THROUGHOUT THE CORRIDOR SHALL BE WHITE. REPLACE AS REQUIRED.

FINISH SCHEDULE

- F1 DELETED.
- F2 CORRIDOR CARPET: SHAW DETAIL #54084-84756 RICE PAPER.
- F3 ELEVATOR LOBBY CARPET: MONTEREY BEST SELLER #56067-00191 BLOOMINGDALES.
- F4 STONE BORDER: DALTLIE JURASTONE, GREY BLUE HONED. MATCH FIFTH FLOOR.
- F5 RESTROOM FLOOR: CROSSVILLE 14" X 14" #V77 PARISHAN WHITE UNPOLISHED PORCELAIN TILE WITH 6" X 14" COVE BASE.
- F6 SERVICE ELEVATOR LOBBY FLOOR: ALLSTATE BRASILIA RUBBER FLOORING (SHEET GOODS) COLOR #12. ALLSTATE PHONE NUMBER: 718-526-7890.
- B1 BASE: BURKE 4" RUBBER BASE #508 TWEED.
- B2 BASE: 2" F2 CARPET BASE WITH A SEAMED EDGE.
- B3 BASE: ELEVATOR LOBBY BASE. NEW 4" RECESSED STONE BASE TO MATCH STONE FLOOR.
- P1 PAINT: ELEVATOR LOBBY, CORRIDOR WALLS AND FIRE EXTINGUISHER CABINET DOORS: FRAZEE ENVIRONKOTE EGGSHELL FINISH TO MATCH SHERWIN WILLIAMS #6155 RICE GRAIN.
- P2 PAINT: RESTROOM & SERVICE ELEVATOR LOBBY WALL PAINT (ABOVE TILE): FRAZEE ENVIRONKOTE EGGSHELL FINISH TO MATCH SHERWIN WILLIAMS #6141 SOFTER TAN.
- P3 PAINT: LOBBY CEILING AND SOFFIT / RESTROOM CEILING: FRAZEE ENVIRONKOTE EGGSHELL FINISH TO MATCH SHERWIN WILLIAMS #6155 RICE GRAIN.
- W1 RESTROOM WALLS: DALTLIE MATTE MATTE BISQUIT #K775. 4 3/4" X 8 3/4" FIELD TILE. 2 1/8" X 8 3/4" FIELD TILE. TILE TO EXTEND +52" A.F.F. WITH P2 PAINT ABOVE.
- C1 RESTROOM COUNTERTOP & 6" BACKSPLASH: CEASAR STONE #2200 DESERT LIMESTONE.

WALL LEGEND

EXISTING PARTITION TO REMAIN

DOOR AND HARDWARE SCHEDULE

- DOOR SCHEDULE**
- A EXISTING 20 MINUTE RATED 3'-0" X 9'-0" SINGLE DOOR AND FRAME ASSEMBLY TO REMAIN.
 - B EXISTING 20 MINUTE RATED 3'-0" X 9'-0" DOOR PAIR AND FRAME ASSEMBLY TO REMAIN.
 - C EXISTING 60 MINUTE RATED 3'-0" X 9'-0" SINGLE DOOR AND FRAME ASSEMBLY TO REMAIN.
 - D EXISTING 60 MINUTE RATED 4'-0" X 9'-0" DOOR PAIR AND FRAME ASSEMBLY TO REMAIN.
- HARDWARE SCHEDULE**
- 1 EXISTING RATED HARDWARE ASSEMBLY TO REMAIN: LEVER LOCKSET, HINGES, WALLSTOP, CLOSER, SMOKESEAL, ETC.
 - 2 EXISTING RATED HARDWARE ASSEMBLY TO REMAIN: LEVER LOCKSET, HINGES, WALLSTOP, CLOSER, SMOKESEAL, ASTRAGAL, COORDINATOR.

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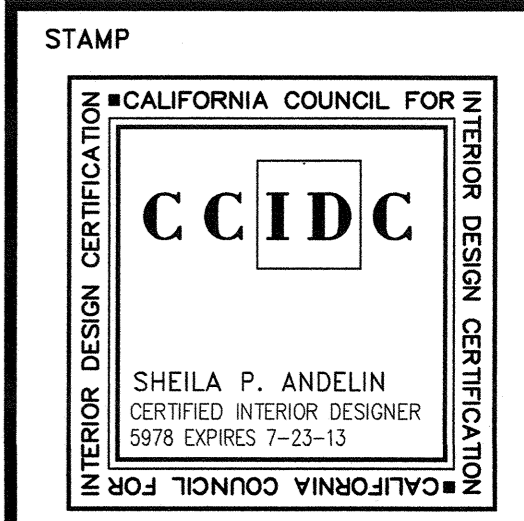
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DRAWINGS:
**CORRIDOR AND RESTROOMS
COMMON AREA UPGRADE**

DRAWINGS:
**CONSTRUCTION, FINISH PLAN
AND DETAILS**



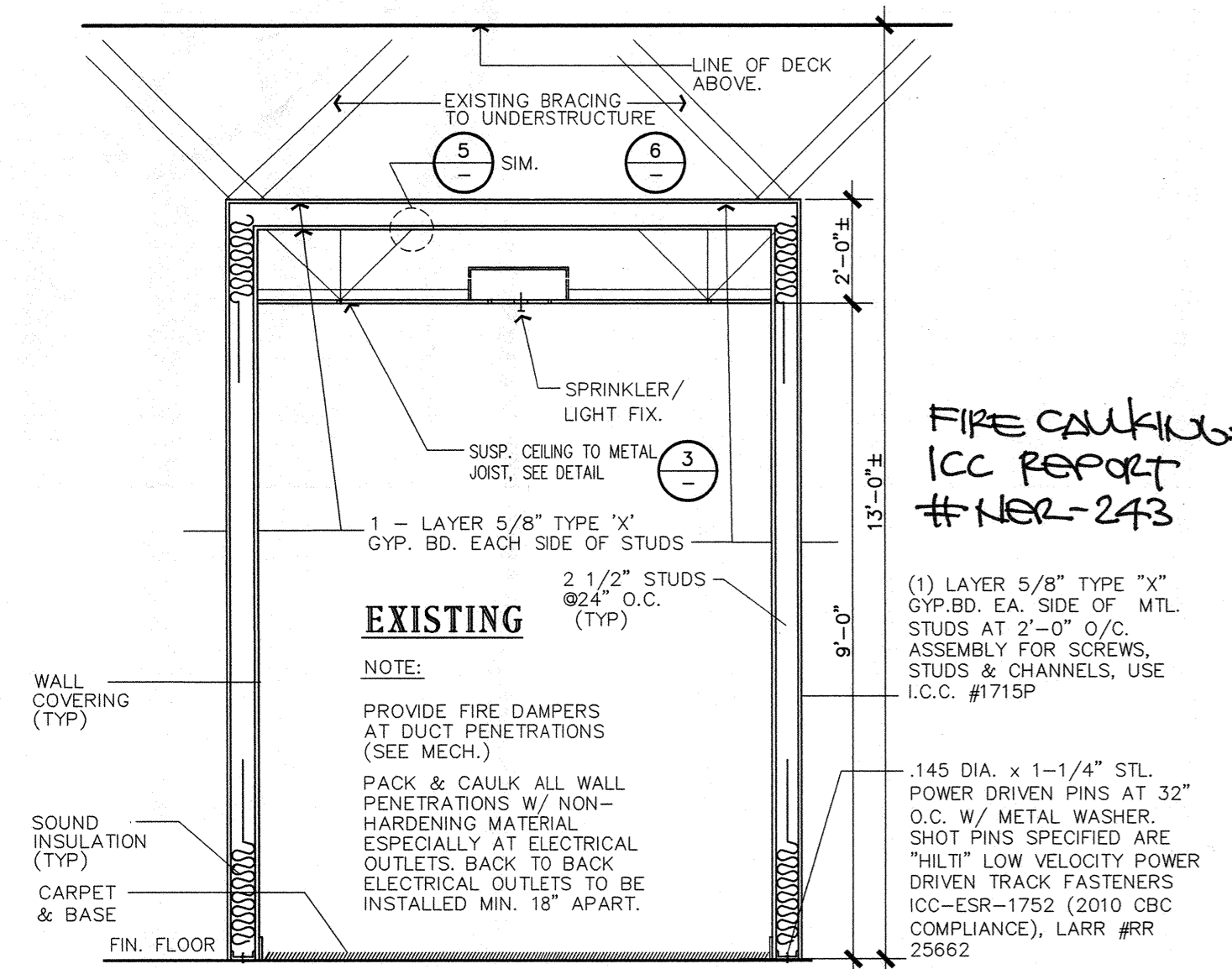
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A1



FIRE CAULKING
ICC REPORT
NSR-243

(1) LAYER 5/8" TYPE "X" GYP. BD. EA. SIDE OF MTL. STUDS AT 2'-0" O.C. ASSEMBLY FOR SCREWS, STUDS & CHANNELS, USE I.C.C. #715P

(2) LAYER 5/8" TYPE "X" GYP. BD. EA. SIDE OF MTL. STUDS AT 2'-0" O.C. ASSEMBLY FOR SCREWS, STUDS & CHANNELS, USE I.C.C. #715P

NOTE: PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS (SEE MECH.) PACK & CAULK ALL WALL PENETRATIONS W/ NON-HARDENING MATERIAL ESPECIALLY AT ELECTRICAL OUTLETS. BACK TO BACK ELECTRICAL OUTLETS TO BE INSTALLED MIN. 18" APART.

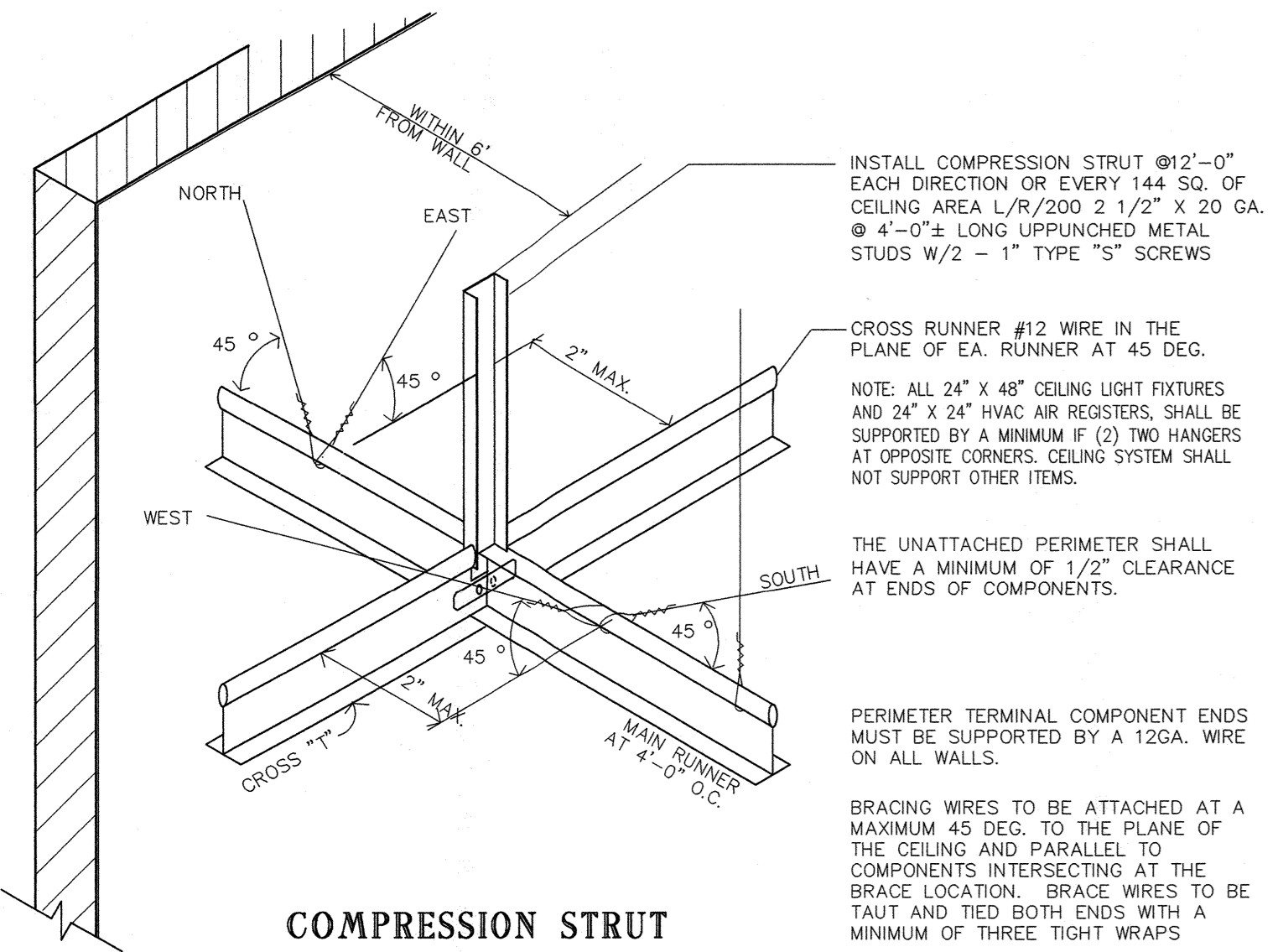
NOTE: 1-1/2" DIA. x 1-1/4" STL. POWER DRIVEN PINS AT 32" O.C. W/ METAL WASHER. SHOT PINS SPECIFIED ARE "MILIT" LOW VELOCITY POWER DRIVEN TRACK FASTENERS (ICC-ESR-1752 (2010 CBC COMPLIANCE), LARR #RR 25662)

SEE PARTITION ASSEMBLY SCHEDULE ON THIS SHEET FOR STUD SIZE REQ. AND I.C.C. NUMBERS.

EXISTING 1 HR ENVELOPE CORRIDOR WITH NEW DROPPED SUSPENDED CEILING

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

2



COMPRESSION STRUT

INSTALL COMPRESSION STRUT #12-0" EACH DIRECTION OR EVERY 144 SQ. OF CEILING AREA L/R/200 2 1/2" X 20 GA. @ 4'-0" LONG UNFINISHED METAL STUDS W/2 - 1" TYPE "S" SCREWS

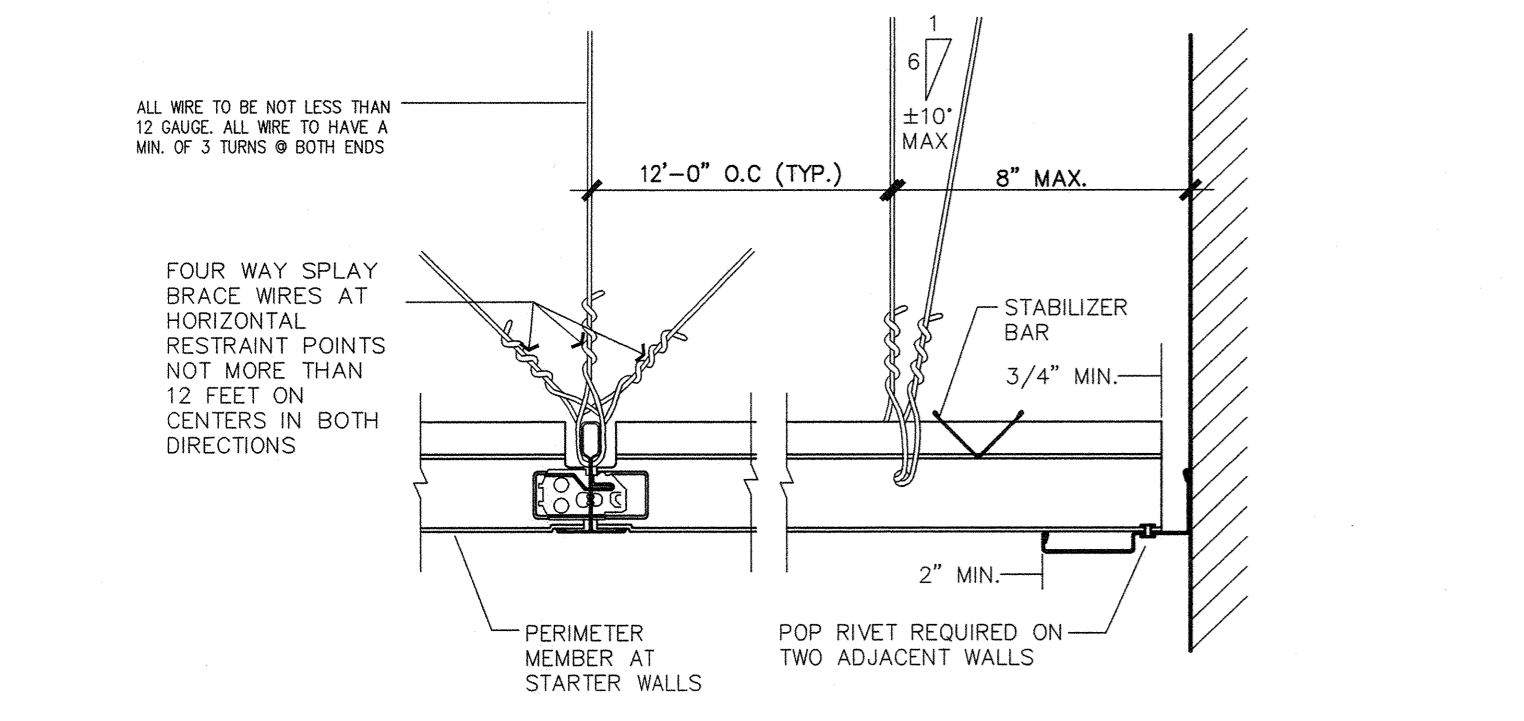
CROSS RUNNER #12 WIRE IN THE PLANE OF EA. RUNNER AT 45 DEG.

NOTE: ALL 24" X 48" CEILING LIGHT FIXTURES AND 24" X 24" HVAC AIR REGISTERS SHALL BE SUPPORTED BY A MINIMUM OF (2) TWO HANGERS AT OPPOSITE CORNERS. CEILING SYSTEM SHALL NOT SUPPORT OTHER ITEMS.

THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2" CLEARANCE AT ENDS OF COMPONENTS.

PERIMETER TERMINAL COMPONENT ENDS MUST BE SUPPORTED BY A TSOA. WIRE ON ALL WALLS.

BRACING WIRES TO BE ATTACHED AT A MAXIMUM 45 DEG. TO THE PLANE OF THE CEILING AND PARALLEL TO COMPONENTS INTERSECTING AT THE BRACE LOCATION. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH A MINIMUM OF THREE TIGHT WRAPS



SECTION

NOTE: THE REFLECTED CEILING PLAN AND DETAILS MUST SHOW COMPLIANCE WITH HEAVY DUTY T-BAR SYSTEM PER 2010 CBC SECTION 2508.2.1. #ER-1905, LARR #24299.

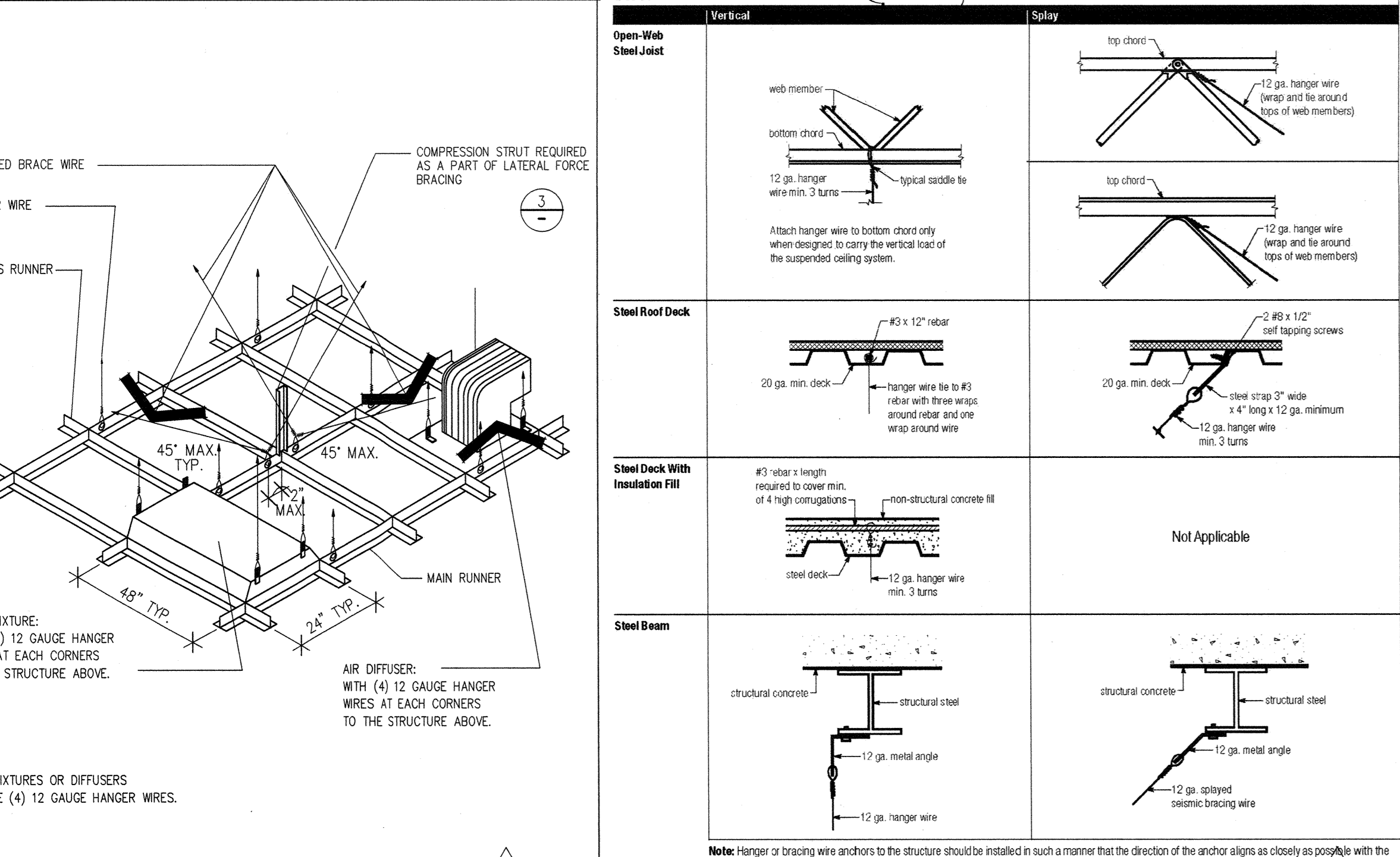
2 INCH MINIMUM SUPPORTING CLOSURE ANGLE WITH EACH ORTHOGONAL DIRECTION HAVING ONE END CONNECTED TO THE CLOSURE ANGLE WITH THE OPPOSITE END HAVING 3/4 INCH FREE MOVEMENT.

NOTE: REFER TO REFLECTED CEILING PLAN FOR ALTERNATE SPECIFICATION FOR 7/8" APPROVED T-BAR GRID SYSTEM. USE APPROVED "ARMSTRONG" SEISMIC RX SUSPENSION SYSTEM ICC-ESR-1308. #ES-1208

TYPICAL CEILING SUSPENSION DETAILS

SCALE: N.T.S.

3



FIXTURE BRACING

SCALE: N.T.S.

4

TIE WIRE CONNECTION

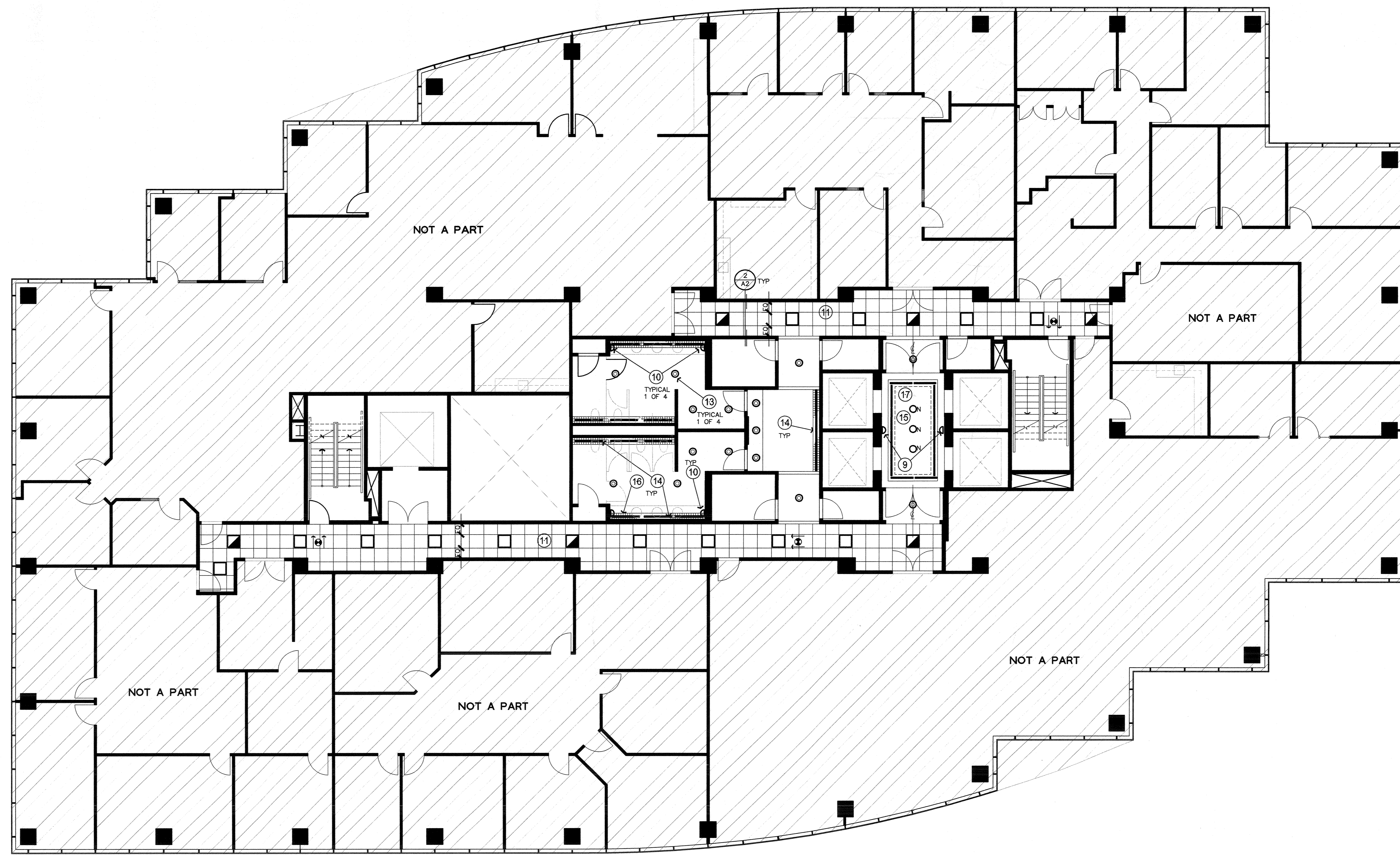
SCALE: N.T.S.

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REFLECTED CEILING PLAN

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

1



REFLECTED CEILING PLAN NOTES

- ALL NEW CEILINGS SHALL INCLUDE ICC-ES COMPLIANT ARMSTRONG SEISMIC RX SUSPENSION SYSTEM.
- REWORK EXISTING HVAC SYSTEM AS REQUIRED PER NEW PLAN.
- MODIFY EXISTING SPRINKLER SYSTEM AS NEEDED. ALL SPRINKLERS ARE TO BE LOCATED IN CENTER OF CEILING TILE.
- CLEAN ALL AIR GRILLES THROUGHOUT TO "AS NEW" CONDITION AND REUSE. REPLACE ANY DAMAGED AIR GRILLES WITH NEW.
- A NEW ACCESS PANEL WILL BE REQUIRED IN THE CEILING ABOVE THE HANDICAP STALLS IN BOTH THE MEN'S AND THE WOMEN'S RESTROOMS.
- PROVIDE NEW EXIT SIGNS AS SHOWN ON PLAN.
- ALL UNUSED SWITCHES, TIMERS, ETC. THAT OCCUR IN THE CORRIDOR SHALL BE REMOVED AND THE WALLS PATCHED AND FINISHED TO "AS NEW" CONDITION.
- THE ELEVATOR LOBBY CEILING SHALL REMAIN. INCREASE THE WATTAGE OF THE INDIRECT LIGHTING (IF POSSIBLE) TO PROVIDE MORE LIGHT.
- REPLACE EXISTING WALL SCONCES WITH (2) NEW LITHONIA AVANTE AVSP WALL SCONCES WHERE SHOWN IN THE ELEVATOR LOBBY SHALL REMAIN.
- PROVIDE (2) LITOTOLIER FORCAST #5465-36 SATIN NICKLE WALL SCONCES WITH #5165NV CAPITOLA WHITE GLASS WITH VERTICAL LINE SHADES WHERE SHOWN IN EACH RESTROOM.
- PROVIDE NEW FINE LINE CEILING GRID IN CORRIDOR. PROVIDE NEW ARMSTRONG CURRUS TILES AND NEW LITHONIA 2' X 2' "AVANTE" SYMMETRICAL MOR LIGHT FIXTURES THROUGHOUT THE CORRIDOR.
- REMOVE THE SURFACE MOUNTED POWER AT THE MOTION SENSORS IN EACH RESTROOM AND CUT THE POWER INTO THE CEILING. PATCH TO AS NEW CONDITION.
- PROVIDE NEW DOWNLIGHTS WITH MOTION SENSORS IN EACH RESTROOM.
- REPLACE EXISTING PARACUBE LENSES IN RESTROOMS AND AREA OUTSIDE RESTROOMS WITH NEW A NEW.
- REPLACE (2) EXISTING DOWNLIGHTS AND ADD A THIRD NEW DOWNLIGHT IN DRYWALL CEILING OF ELEVATOR LOBBY. MATCH SEVENTH FLOOR LOBBY FIXTURES.
- ABANDON THE RETURN AIR GRILLES LOCATED INSIDE THE LIGHTCOVES IN EACH RESTROOM. PROVIDE A NEW RETURN AIR GRILLE IN EACH RESTROOM.
- INDIRECT FLUORESCENT LIGHTING IN ELEVATOR LOBBY SHALL REMAIN.

REFLECTED CEILING LEGEND

SYM.	DESCRIPTION
(Symbol: Grid)	NEW 2 X 2 SUSPENDED TEGULAR CEILING GRID & TILES. USE ARMSTRONG HD SEISMIC GRID RX SUSPENDED WITH CEILING TO COMPLY WITH CBC SECTIONS 711.3.1, 803.9, 1813, AND 1705 (SPECIAL INSPECTIONS) AND ASTM C635 AND ASTM C636.
(Symbol: Light Fixture)	NEW 2 X 2 LIGHT FIXTURE. SEE ENGINEERING SHEETS.
(Symbol: Down Light)	NEW DOWN LIGHT FIXTURE.
(Symbol: Strip Light)	EXISTING RECESSED STRIP LIGHT FIXTURE TO REMAIN. REPLACE LENS WITH NEW SMOOTH OPAQUE LENS.
(Symbol: Exit Sign)	NEW ILLUMINATED EXIT SIGN: LITHONIA #LQ-S-W-3-G-120/277-EL N. THE TWO SOURCES REQUIRED FOR THE EXIT SIGN WILL COME FROM THE BUILDING EMERGENCY POWER AND FIXTURE BUILT-IN EMERGENCY BATTERY BACK-UP. EXIT ILLUMINATION AND EXIT SIGN REQUIREMENTS IN ACCORDANCE WITH CBC SECTION 1011 SHALL BE SHOWN ON DRAWINGS.
(Symbol: Wall Sconce)	NEW WALL SCONCE.
(Symbol: Strip Light)	EXISTING FLUORESCENT STRIP LIGHT. UPGRADE WATTAGE IF POSSIBLE.
(Symbol: Light Fixture)	EXISTING LIGHT FIXTURE.
(Symbol: Emergency Light)	NEW 2 X 2 FLUORESCENT EMERGENCY LIGHT FIXTURES (WITH EM-SUBSCRIPT) WITHIN THE CORRIDOR AND LOBBY AREA TO SERVE AS EMERGENCY EGRESS LIGHTING. THESE FIXTURES WILL PROVIDE THE MINIMUM REQUIRED 1.0 FOOTCANDLE ILLUMINATION LEVEL FOR THE EGRESS PATH DURING EMERGENCY POWER OPERATION CONSIDERING THE QUANTITY AND SPACING OF THE EMERGENCY LIGHT FIXTURES. FURTHERMORE, THEY WILL OPERATE AT FULL LIGHT LEVEL OUTPUT DURING EMERGENCY OPERATION SINCE THE EMERGENCY POWER IS SUPPLIED FROM A LIFE SAFETY GENERATOR AND NOT WITH BUILT-IN EMERGENCY BATTERY PACKS.

(E) PARTITION BRACING TO UNDERSTRUCTURE

SCALE: N.T.S.

6

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DRAWINGS:
**CORRIDOR AND RESTROOMS
COMMON AREA UPGRADE**
DRAWINGS:
REFLECTED CEILING PLAN

STAMP
CALIFORNIA COUNCIL FOR
CCIDC
SHEILA P. ANDELIN
CERTIFIED INTERIOR DESIGNER
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MULTIPLICATED NUMBER

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