

WITH:

COUNTY:

## STANDARD ABBREVIATIONS

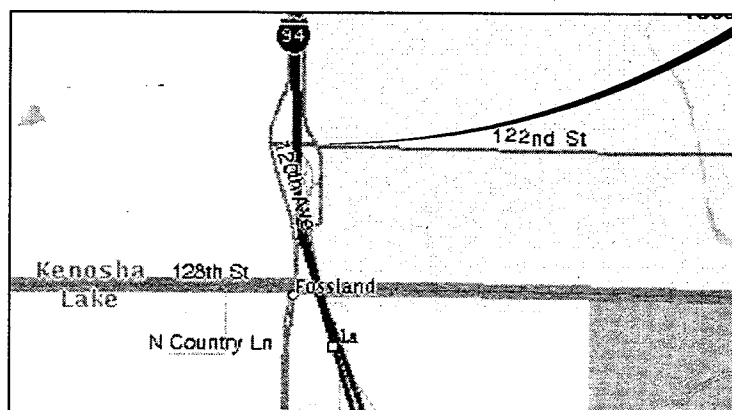
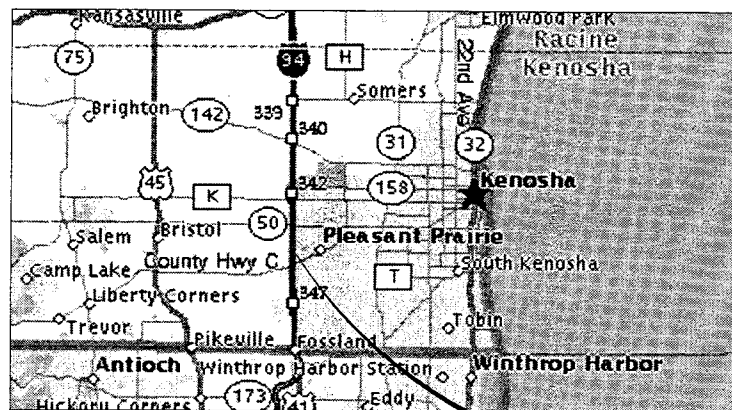
AB ANCHOR BOLT	MANUF MANUFACTURED
A/C AIR CONDITIONING	MAX MAXIMUM
AFT ABOVE FINISHED FLOOR	MB MOP BASIN
ALUM ALUMINUM	MECH MECHANICAL
ALT ALTERNATE	MEMB MEMBRANE
AP ACCESS PANEL	MFR MANUFACTURER
ASPH ASPHALT	MVN MINIMUM
BD BOARD	MISC MISCELLANEOUS
BLDG BUILDING	MJ MOVEMENT JOINT
BLKS BLOCKING	MO MASONRY OPENING
BM BENCH MARK	MTL METAL
BO BY OTHERS	NYC NOT IN CONTRACT
BRC BEARING	NO NUMBER
BS BOTH SIDES	NOM NOMINAL
BTM BOTTOM	NTS NOT TO SCALE
CF CUBIC FEET	OC ON CENTER
CJ CONSTRUCTION JOINT	OD OUTSIDE DIAMETER
CLG CEILING	OH OVERHEAD, OVERHANG
CLJ CONTROL JOINT	OPNG OPENING
CLK CALKING	PART PARTITION
CMU CONCRETE MASONRY UNIT	PCF POUNDS PER CUBIC FOOT
CO CLEANOUT	PKT POCKET
COL COLUMN	PLAS PLASTIC
CONC CONCRETE	PLBG PLUMBING
CONT CONTINUE, CONTINUOUS	PLF POUNDS PER LINEAL FOOT
CONTR CONTRACT(OR)	PNL PANEL
OPT CARPET(ED)	POLY POLYETHYLENE
CT CERAMIC TILE	PROJ PROJECT, PROJECTED
CY CUBIC YARD	PROP PROPERTY
DBL DOUBLE	PSF POUNDS PER SQUARE FOOT
DF DRINKING FOUNTAIN	PSI POUNDS PER SQUARE INCH
DIA DIAMETER	PT PRESSURE TREATED
DM DIMENSION	PTD PAINT(ED)
DN DOWN	PVC POLYVINYL CHLORIDE
DR DOOR, DRAIN	PWT PAVEMENT
DS DOWN SPOUT	PWD PLYWOOD
DTL DETAIL	QT QUARRY TILE
DW DRAINWASHER	R RADIUS, RISER
DWG DRAWING	RA RETURN AIR
E EXTINGUISHER	RD ROOF DRAIN
EA EACH	REF REFRIGERATOR
EFS EXTERIOR FINISH INSULATION SYSTEM	REIN REINFORCING
EL ELEVATION	REDO REQUIRED
ELEC ELECTRIC(AL)	REV REUSE, REVISION
ELEV ELEVATOR	RM ROOM
EPDM ETHYLENE, PROPYLENE, DIENE TERPOLYMER	RO ROUGH OPENING
EPI EXTRUDED POLYSTYRENE INSULATION	SA SUPPLY AIR
EQUP EQUIPMENT	SC SOLID CORE
EW EACH WAY	SF SQUARE FOOT
EWG ELECTRIC WATER COOLER	SH SHELF, SHELVING, SHOWER
EXH EXHAUST	SHT SHEET
EXIST EXISTING	SM SIMILAR
EXP EXPOSED, EXPANSION	SPKR SPEAKER
EXT EXTERIOR	SQ SQUARE
FEC FIRE EXTINGUISHER CABINET	SS STAINLESS STEEL
FD FLOOR DRAIN	STC SOUND TRANSMISSION COEFFICIENT
FE FIRE EXTINGUISHER	STD STANDARD
FIN FINISH	STL STEEL
FLR FLOOR	SUS SUSPENDED
FLUR FLUORESCENT	SY SQUARE YARD
FNDN FOUNDATION	T TREAD
FT FOOT	TELE TELEPHONE
FTG FOOTING, FITTING	T/G TONGUE AND GROOVE
G GAS	THK THICKNESS
GA GAUGE	TOF TOP OF FOOTING
GALV GALVANIZED	TOS TOP OF STEEL
GB GRAB BAR	TOW TOP OF WALL
GC GENERAL CONTRACT(OR)	TYP TYPICAL
GL GLASS, GLAZING	UH UNIT HEATER
GYP GYPSUM	VB VAPOR BARRIER
HO HOSE BIB	VCT VINYL COMPOSITION TILE
HC HOLLOW CORE	VERT VERTICAL
HDWR HARDWARE	VT VINYL TILE
HGT HEIGHT	W WATER
HM HOLLOW METAL	W/ WITH
HORIZ HORIZONTAL	W/O WITHOUT
HTG HEATING	WP WATERPROOF(ING)
HVAC HEATING/VENTILATING/AIR CONDITIONING	WSCT WANSNOT
HW HOT WATER	WIF WELDED WIRE FABRIC
HYD HYDRANT	
ID INSIDE DIAMETER	
I E INVERT ELEVATION	
IN INCH	
INCL INCLUDE(D), INCLUDING	
INSUL INSULATE(D), INSULATION	
INT INTERIOR	
JST JOIST	
JT JOINT	
LAV LAVATORY	
LF LINEAL FOOT	
LL LINE LOAD	

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

## SAFETY & WEIGHT FACILITY NO. 21 INTERSTATE 94 AT ML KENOSHA COUNTY

STATE PROJECT NUMBER  
1032-08-70 (c)



1 LOCATION MAP  
Not to Scale

STATE PROJECT

FEDERAL PROJECT

PROJECT

CONTRACT

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PROJECT LOCATION  
SAFETY & WEIGHT FACILITY NO.21  
I-94 at ML  
KENOSHA, WI

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor \_\_\_\_\_  
Designer \_\_\_\_\_  
District Examiner \_\_\_\_\_  
District Supervisor \_\_\_\_\_  
Proj. Dev. Engineer \_\_\_\_\_  
C.O. Examiner \_\_\_\_\_

APPROVED FOR DISTRICT OFFICE

DATE: \_\_\_\_\_ (Signature)

FINAL P, S, & E

AUTHORIZED FOR BUREAU OF HIGHWAY DEVELOPMENT

DATE: \_\_\_\_\_ (Signature)

DATE: 1/1/02

SHEET NO: 126 OF

DWG. G101

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

TITLE, LOCATION MAPS, DRAWING INDEX

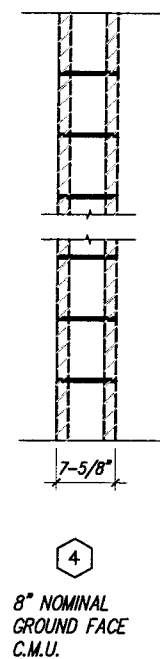
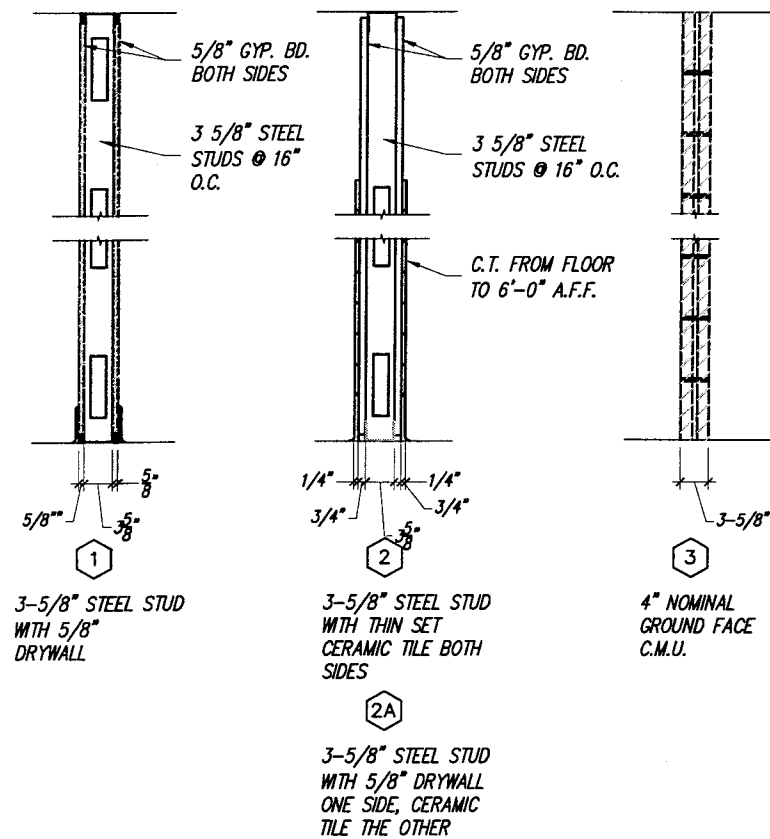
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET



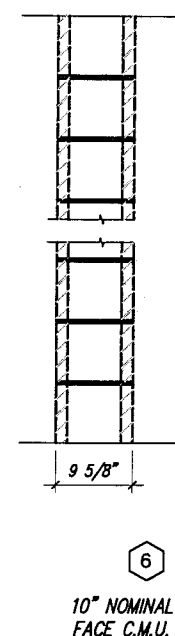
NOTE: TOP OF INTERIOR PARTITIONS AT 110'-0" ELEV. (TYP.).  
DIAGONAL BRACING BACK TO STRUCTURE AT 4'-0" O.C. REFER TO STRUCTURAL.

AT ROOMS WITHOUT SUSPENDED CEILING (OPEN TO STRUCTURE),  
RUN PARTITIONS FULL HEIGHT TO UNDERSIDE OF STRUCTURE.  
REFER TO ROOM FINISH SCHEDULE.



NOT USED

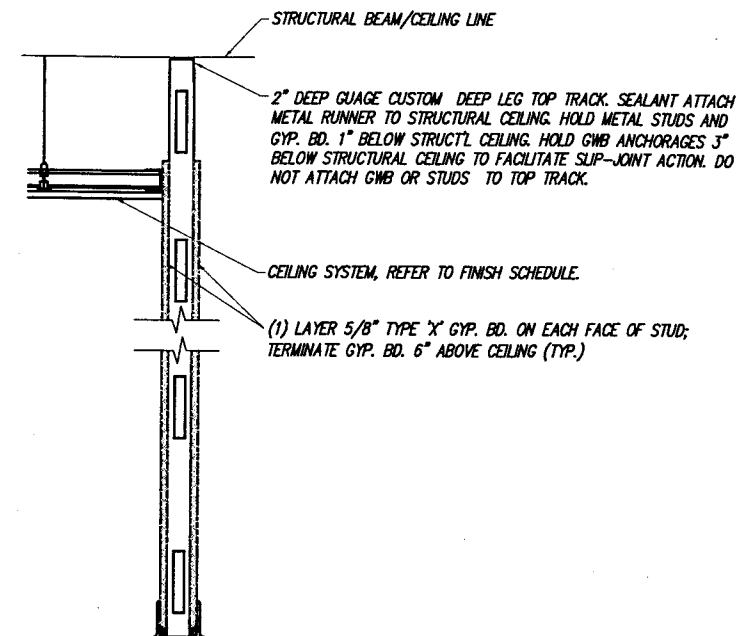
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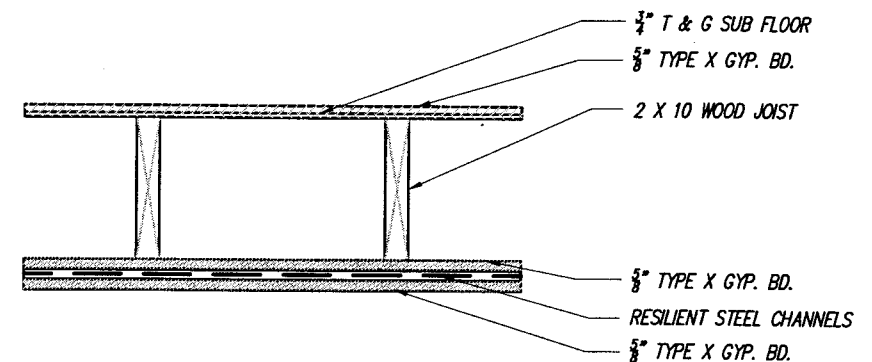
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6A  
10" NOMINAL GROUND FACE C.M.U. 3 HOUR RATED

4B  
8" NOMINAL GROUND FACE C.M.U. W/ THIN SET C.T. ON ONE SIDE



### 3 STANDARD WALL APPLICATION (ALL STEEL STUD TYPES)



WOOD FLOOR, WOOD JOISTS, GYPSUM WALLBOARD, RESILIENT CHANNELS

BASE LAYER 5/8" PROPRIETARY TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO 2 X 10 WOOD JOISTS 16" O.C. WITH 8D NAILS, 2 1/2" LONG, 0.113" SHANK, 19/64" HEADS, 7" O.C. RESILIENT FURRING CHANNELS 24" O.C. APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH ONE 8D NAIL, 2 1/2" LONG, 0.113" SHANK, 19/64" HEAD, AT EACH JOIST.

FACE LAYER 5/8" PROPRIETARY TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO RESILIENT FURRING CHANNELS WITH 1" TYPE S DRYWALL SCREWS 12" O.C. DOUBLE CHANNEL INSTALLED AT FACE LAYER END JOINTS. WOOD JOISTS SUPPORTING 1" NOMINAL T & G WOOD SUBTLE AND 1" NOMINAL WOOD FINISH FLOOR OR 19/32" PLYWOOD FINISHED FLOOR WITH LONG EDGES T & G AND 15/32" INTERIOR PLYWOOD WITH EXTERIOR GLUE SUBTLE PERPENDICULAR TO JOISTS WITH JOINTS STAGGERED.

### 2 2 HOUR RATED CEILING (GA FC 5710 PROPRIETARY UL DESIGN L511)

### 1 PARTITION TYPES NOT TO SCALE

REFER TO DETAIL 3/G102 FOR  
ADDITIONAL INFORMATION

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

PARTITION TYPES / RATED ASSEMBLIES

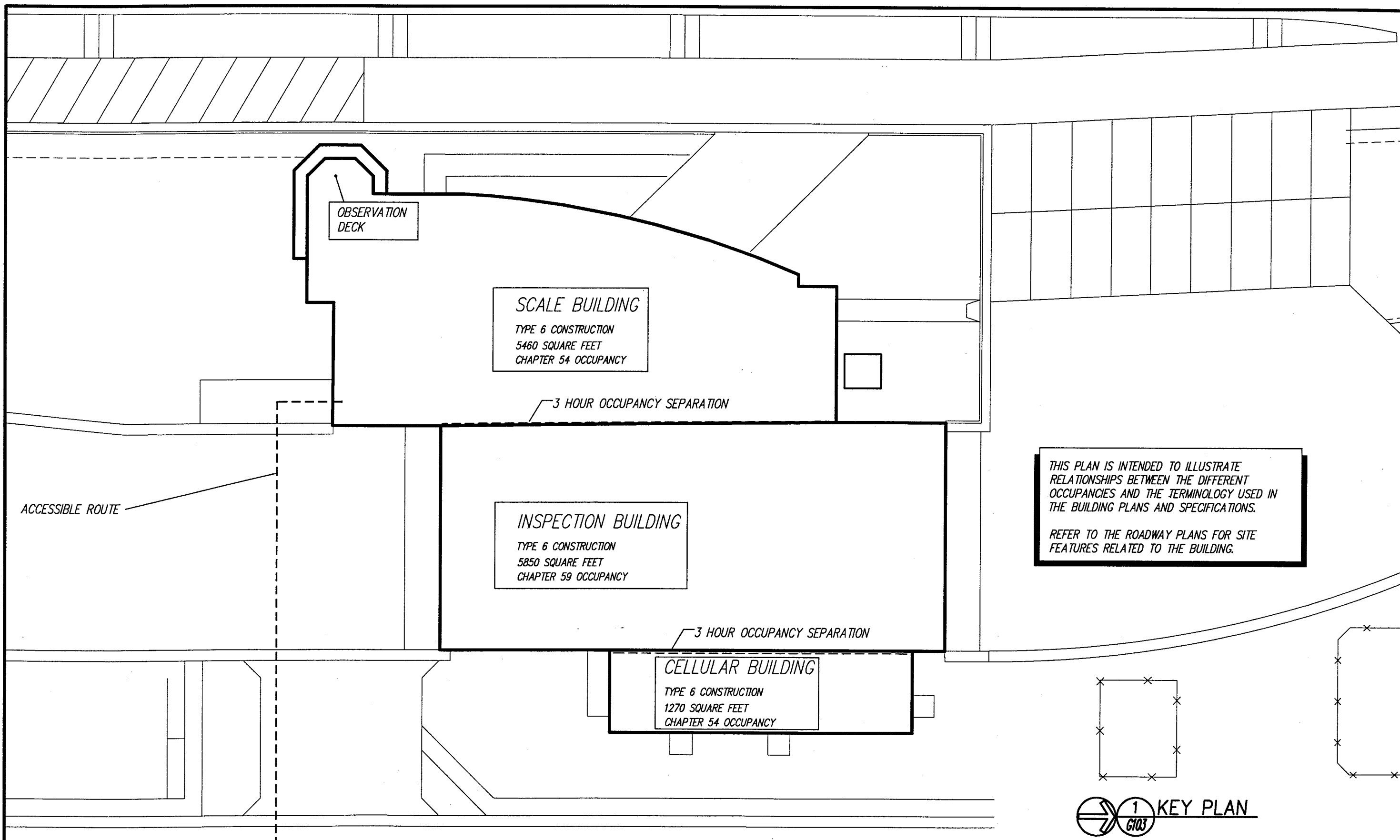
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

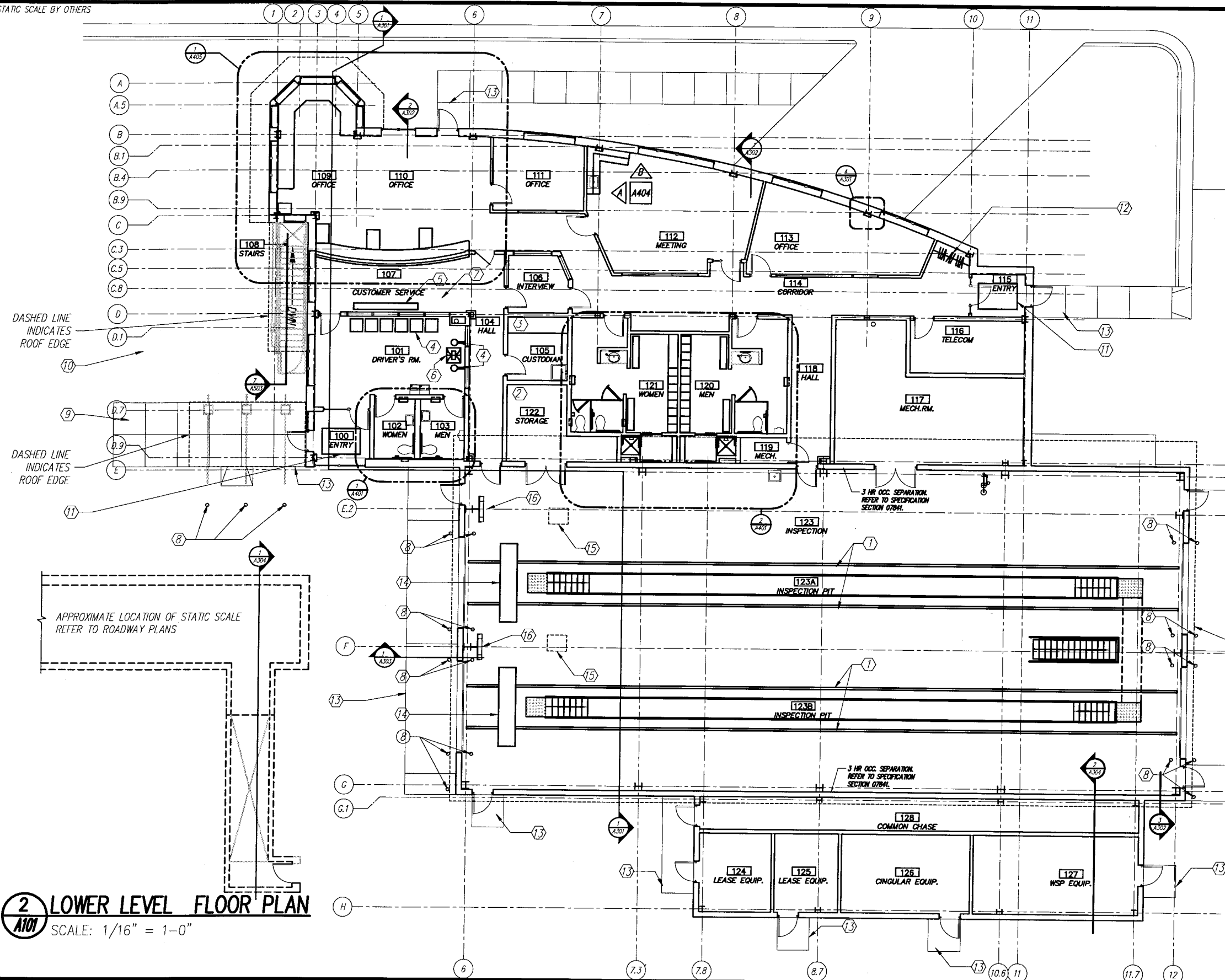
DATE: 1/1/02

SHEET NO: 127 OF

DWG. G102



STATIC SCALE BY OTHERS



# KEY NOTES

- ① PAINTED TRAFFIC STRIPE, REFER TO SECTION 09900 SPECIFICATIONS
- ② 2 HOUR RATED CEILING THIS ROOM. REFER TO 2/ G102.
- ③ SHELVING. REFER TO 2/A507.
- ④ FIXED AUDIENCE SEATING. REFER TO SECTION 12610 SPECIFICATIONS.
- ⑤ FLOOR MOUNTED BENCH. REFER TO SECTION 10505 SPECIFICATIONS.
- ⑥ FLOOR MOUNTED TELEPHONE ENCLOSURES. REFER TO SPECIFICATIONS AND 4/A506.
- ⑦ CEILING MOUNTED TV BRACKET. MINIMUM CLEAR HEIGHT 80" A.F.F. REFER TO SECTION 11132 SPECIFICATIONS
- ⑧ PIPE BOLLARD (TYPICAL). REFER TO 1/A509.
- ⑨ FLAGPOLE BY OTHERS.
- ⑩ WELL BY OTHERS.
- ⑪ RECESSED ENTRY MAT 4'-0" X 6'-0" REFER TO 2/A104.
- ⑫ COAT RACK. REFER TO SPECIFICATION SECTION 10914.
- ⑬ CONCRETE STOOPS AND APRONS BY GENERAL BUILDING CONTRACTOR, REFER TO BUILDING LANDSCAPING/WELL/SEPTIC PLAN IN ROADWAY DRAWINGS, REFER TO 4/A507 FOR CLEARANCE REQUIREMENTS.
- ⑭ BRAKE TEST EQUIPMENT PIT- REFER TO STRUCTURAL, ELECTRICAL AND PLUMBING.
- ⑮ BRAKE TESTING COMPUTER / PRINTER SUPPLIED BY OTHERS. INSTALLATION BY OTHERS. REFER TO ELECTRICAL.
- ⑯ BRAKE TESTING DISPLAY AND CONTROL PANEL & BRACKETS SUPPLIED BY OTHERS, INSTALLED BY GENERAL BUILDING CONTRACTOR.

DASHED LINE INDICATES ROOF EDGE

NOTE: REFER TO DIMENSION PLAN, A106 FOR STRUCTURAL GRID AND BUILDING DIMENSIONS.

NOTE: REFER TO SHEET A105 & G102 FOR PARTITION TYPES

**2 LOWER LEVEL FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

**1 GROUND FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

## FLOOR PLAN

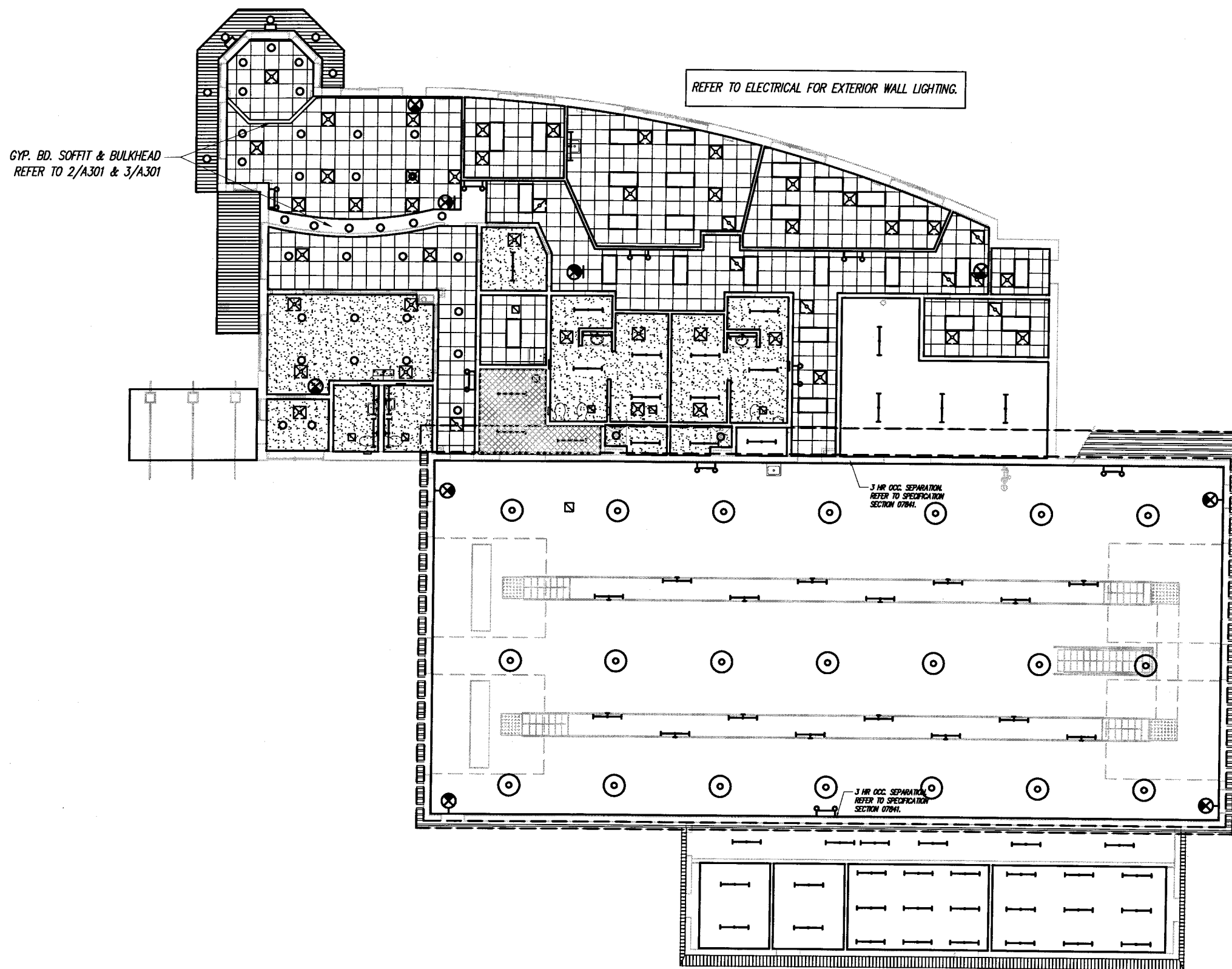
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET 0 8 16

DATE: 1/1/02

SHEET NO: 129 OF 16

DWG. A101



REFLECTED CEILING PLAN SYMBOL/MATERIAL KEY  
SYMBOL: DESCRIPTION:

- 2' X 4' LAY-IN FLUORESCENT LIGHT FIXTURE REFER TO "E" DRAWINGS.
- 1' X 4' SURFACE MTD. FLUORESCENT LIGHT FIXTURE REFER TO "E" DRAWINGS.
- RECESSED FIXTURE - REFER TO "E" DRAWINGS
- CEILING MOUNTED EXIT FIXTURE REFER TO "E" DRAWINGS.
- CEILING SUPPLY-AIR DIFFUSER - REFER TO "H" DRAWINGS FOR SIZES.
- CEILING RETURN-AIR DIFFUSER - REFER TO "H" DRAWINGS FOR SIZES.
- LAY-IN CEILING DIFFUSER - REFER TO "H" DRAWINGS FOR SIZES.
- CEILING ACCESS PANEL, SIZE INDICATED.
- EXPOSED STRUCTURE / SURFACE, REFER TO ROOM FINISH SCHEDULE.
- GYPSUM BOARD, REFER TO ROOM FINISH SCHEDULE.
- SUSPENDED ACOUSTICAL TILE, REFER TO ROOM FINISH SCHEDULE.
- METAL SOFFIT PANEL
- BATTERY POWERED EMERGENCY LIGHTING
- FLUSH MOUNT FLORESCENT FIXTURE
- SODIUM LIGHTING
- 2 HOUR RATED CEILING. REFER TO 2/G102

1 REFLECTED CEILING PLAN  
A102 SCALE: 1/16" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

REFLECTED CEILING PLAN

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

SHEET NO: 130 OF

DWG. A102

EPDM ROOF MEMBRANE AT  
OVERHANG REFER TO DETAIL 1/A507

SCUPPER (TYP.)

NOTE: REFER TO PLUMBING, HVAC, AND  
ELECTRICAL DRAWINGS TO COORDINATE  
FINAL LOCATIONS OF ALL ROOF  
PENETRATIONS.

SLOPED STEEL ROOF  
STRUCTURE, REFER TO  
STRUCTURAL

TAPERED  
INSULATION

ROOF DRAIN

ROOF DRAIN

BALLASTED EPDM  
MEMBRANE ROOFING

FURNACE EXHAUST, REFER  
TO HVAC PLANS

BOILER FLUE REFER TO  
HVAC PLANS

ROOF PAVER PROTECTION  
10' WIDE

DOWNSPOUT  
GUTTER AND  
DOWNSPOUT, REFER  
TO ELEVATIONS AND  
1/A502

STANDING SEAM  
METAL ROOFING

PLUMBING VENTS, REFER  
TO PLUMBING PLANS.

SNOW GUARDS, REFER TO  
SPECIFICATIONS

GUTTER AND  
DOWNSPOUT, REFER  
TO ELEVATIONS AND  
1/A502

DOWNSPOUT

GUTTER AND  
DOWNSPOUT, REFER  
TO ELEVATIONS AND  
1/A502

PLUMBING VENT, REFER TO  
PLUMBING PLANS.

DOWNSPOUT

3 HR OCCUPANCY SEPERATION  
COMMON WALL BETWEEN SCALE  
& INSPECTION BUILDING  
REGLET FLASHING W/ COUNTER  
FLASHING

PAVER UNITS  
10'-0"

SEAM SEALANT AT ROOF LAP PER ROOFING  
MANUFACTURERS APPROVED DETAIL  
BALLASTED EPDM ROOFING MEMBRANE

2ND LAYER EPDM  
MEMBRANE BENEATH  
PAVERS

**2 ROOF SECTION AT PAVERS**  
SCALE: 1/4" = 1'-0"

SAWCUT REGLET & COUNTER  
FLASHING. PROVIDE SLIP JOINT  
AT EACH MOVEMENT JOINT.

FASTEN EVERY 12"

FLASHING MEMBRANE  
LAP SPLICE  
BLOCKING  
SEAM EDGE TREATMENT  
MEMBRANE

INSULATION

CANT STRIP

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

ROOF PLAN LEGEND

- ⊗ EXHAUST FAN- REFER TO MECHANICAL
- ⊠ ROOF DRAIN- REFER TO PLUMBING
- DIRECTION OF ROOF SLOPE

**1 ROOF PLAN**  
SCALE: 1/16" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

ROOF PLAN

DATE: 1/1/02

STATE PROJECT NUMBER: 1032-08-70 (c)

HWY: INTERSTATE 94 AT ML

COUNTY: KENOSHA

SAFETY & WEIGHT FACILITY NO. 21

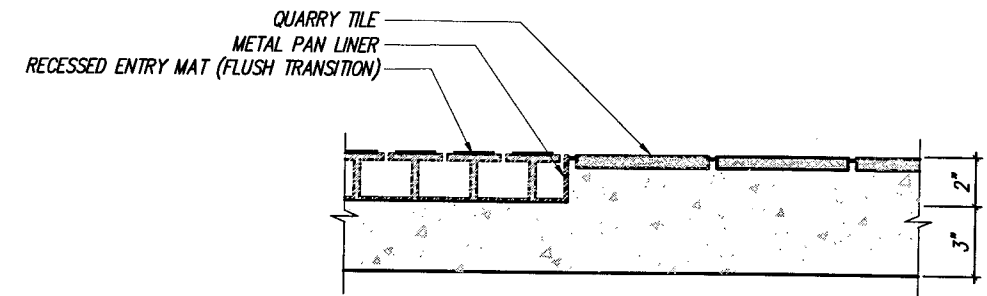
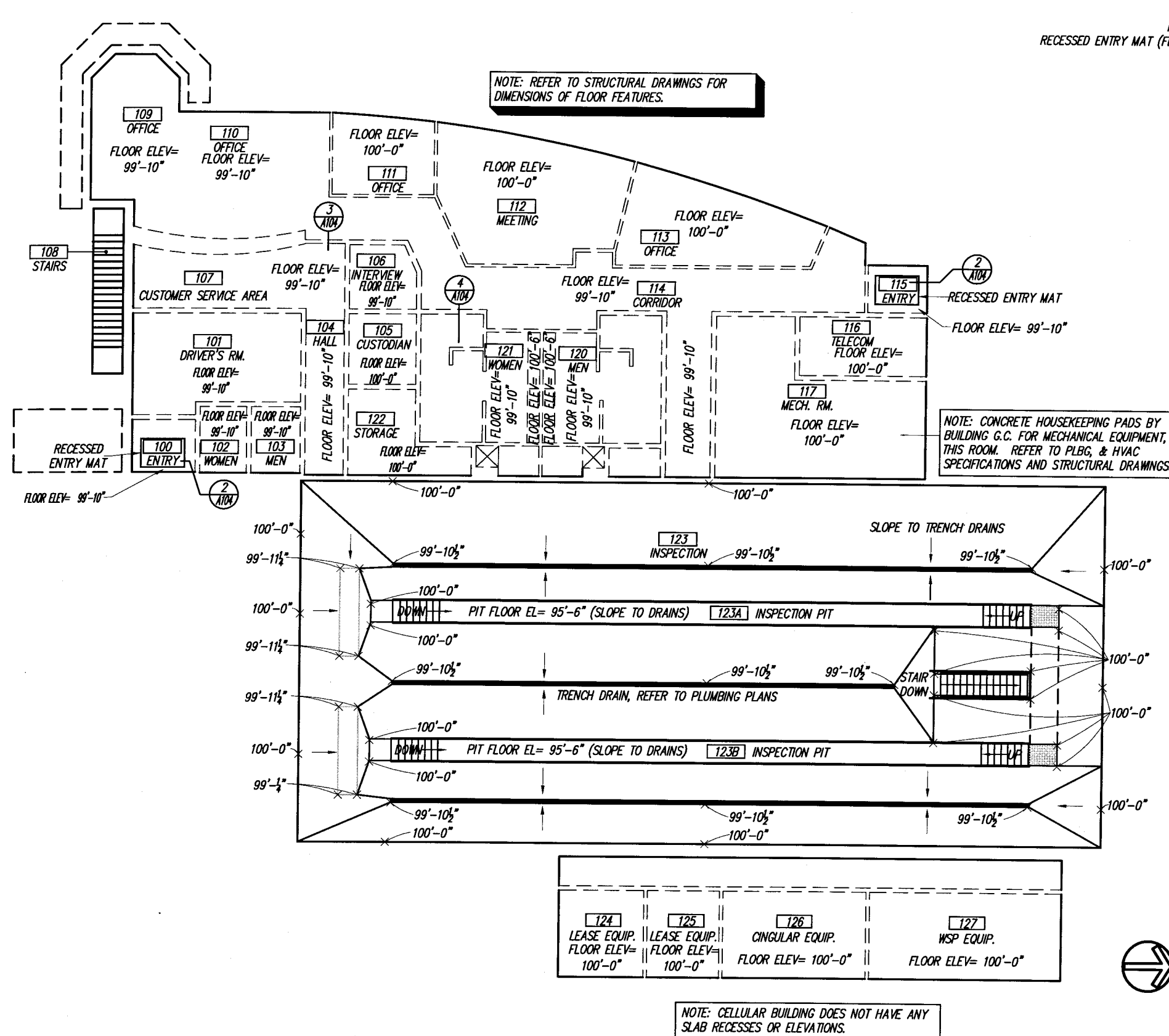
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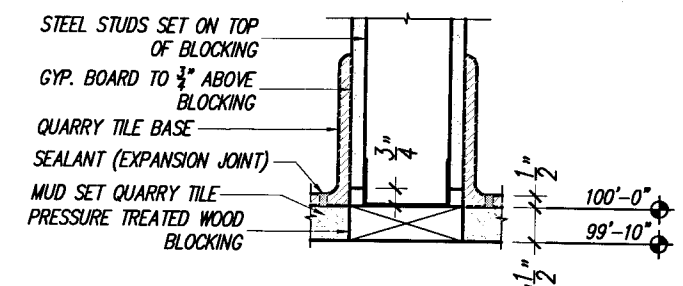
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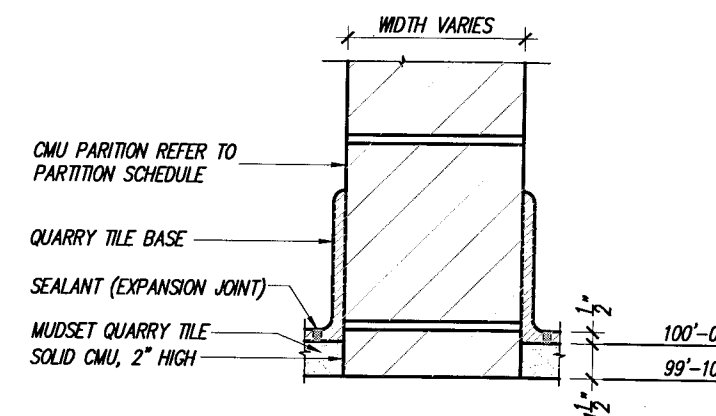
A103



**SECTION- ENTRY MAT**  
SCALE: 1 1/2" = 1'-0"



**SECTION- COVE BASE AT STUD WALL**  
SCALE: 1 1/2" = 1'-0"



**SECTION- COVE BASE AT BLOCK WALL**  
SCALE: 1 1/2" = 1'-0"

**1 FLOOR SLAB PLAN**  
A104 SCALE: 1/16" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

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# FLOOR SLAB PLAN

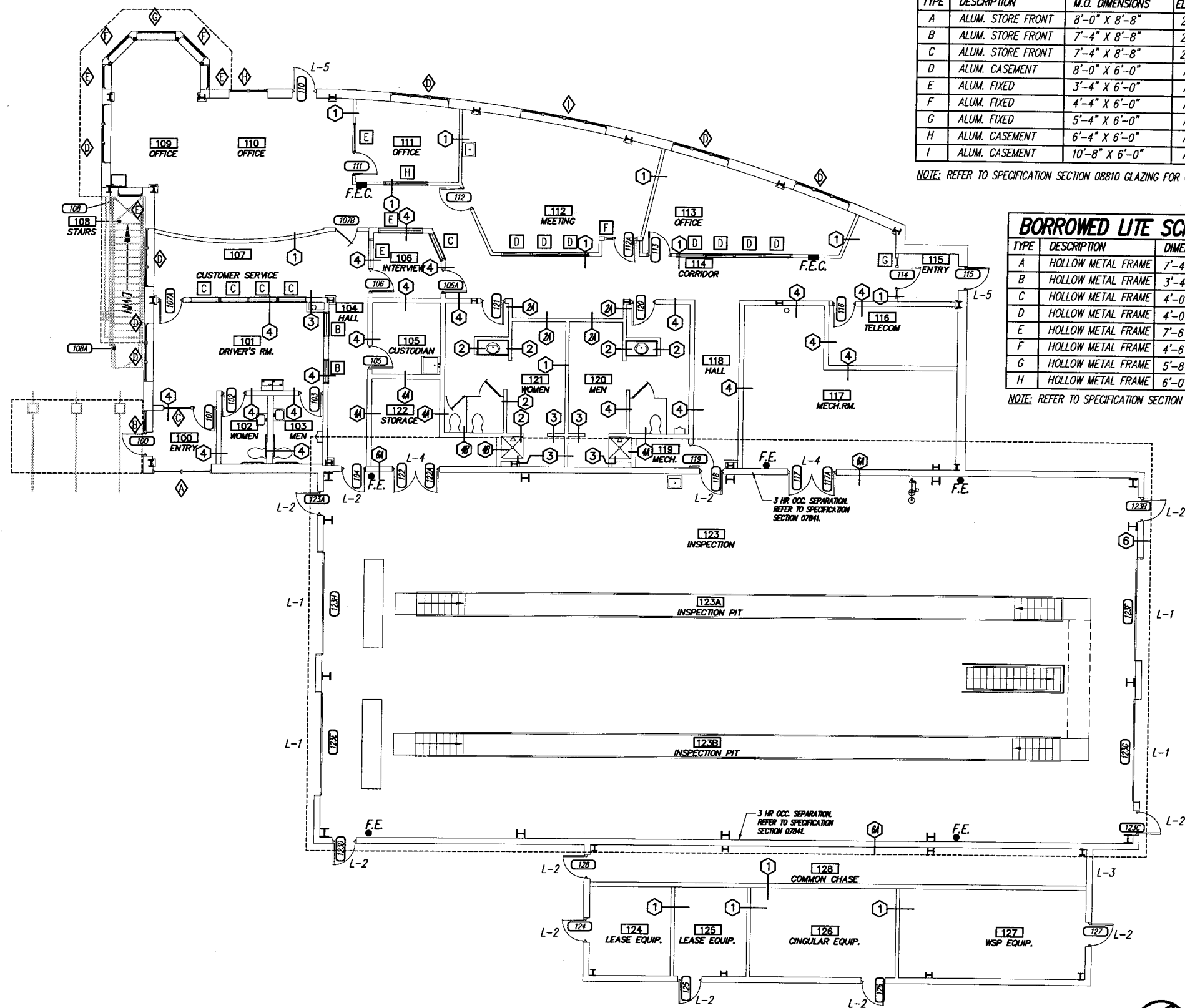
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

SHEET NO: 132 x OF

DWG. A104



# WINDOW AND LINTEL SCHEDULE

TYPE	DESCRIPTION	M.O. DIMENSIONS	ELEV. REF.	LINTEL	REMARKS
A	ALUM. STORE FRONT	8'-0" X 8'-8"	2/A504	∠ 7 X 4 X 1/2	
B	ALUM. STORE FRONT	7'-4" X 8'-8"	2/A504	∠ 7 X 4 X 3/8	
C	ALUM. STORE FRONT	7'-4" X 8'-8"	2/A504	∠ 7 X 4 X 3/8	
D	ALUM. CASEMENT	8'-0" X 6'-0"	A201	∠ 7 X 4 X 3/8	ROLLER SHADE OFFICE 109; MINIBLIND OFFICE 111 & OFFICE 113. SEE SPECIFICATION SECTIONS 12491 & 12494.
E	ALUM. FIXED	3'-4" X 6'-0"	A201	∠ 7 X 4 X 3/8	ROLLER SHADE OFFICE 109. SEE SPECIFICATION SECTION 12494.
F	ALUM. FIXED	4'-4" X 6'-0"	A201	∠ 7 X 4 X 3/8	ROLLER SHADE THIS WINDOW TYPE IN OFFICE 109 ONLY. SEE SPECIFICATION SECTION 12494.
G	ALUM. FIXED	5'-4" X 6'-0"	A201	∠ 7 X 4 X 3/8	ROLLER SHADE THIS WINDOW TYPE IN OFFICE 109 ONLY. SEE SPECIFICATION SECTION 12494.
H	ALUM. CASEMENT	6'-4" X 6'-0"	A201	∠ 7 X 4 X 3/8	ROLLER SHADE THIS WINDOW TYPE IN OFFICE 110 ONLY. SEE SPECIFICATION SECTION 12494.
I	ALUM. CASEMENT	10'-8" X 6'-0"	A201	∠ 7 X 4 X 1/2	MINIBLIND IN MEETING 112 ONLY. SEE SPECIFICATION SECTION 12491.

NOTE: REFER TO SPECIFICATION SECTION 08810 GLAZING FOR GLASS TYPES.

# BORROWED LITE SCHEDULE

TYPE	DESCRIPTION	DIMENSIONS	ELEV. REF.	REMARKS
A	HOLLOW METAL FRAME	7'-4" X 3'-4"	1/A504	
B	HOLLOW METAL FRAME	3'-4" X 5'-0"	1/A504	
C	HOLLOW METAL FRAME	4'-0" X 5'-0"	1/A504	MINIBLIND INTERVIEW 106 ONLY. REFER TO SPECIFICATION SECTION 12491.
D	HOLLOW METAL FRAME	4'-0" X 5'-10"	1/A504	MINIBLIND MEETING 112 & OFFICE 113 ONLY. REFER TO SPECIFICATION SECTION 12491.
E	HOLLOW METAL FRAME	7'-6" X 7'-2"	1/A504	MINIBLIND OFFICE 111 & INTERVIEW 106 ONLY. REFER TO SPECIFICATION SECTION 12491.
F	HOLLOW METAL FRAME	4'-6" X 7'-2"	1/A504	
G	HOLLOW METAL FRAME	5'-8" X 7'-2"	1/A504	
H	HOLLOW METAL FRAME	6'-0" X 5'-0"	1/A504	MINIBLIND OFFICE 111 ONLY. REFER TO SPECIFICATION SECTION 12491.

NOTE: REFER TO SPECIFICATION SECTION 08810 GLAZING AND A504 FOR GLASS TYPES.

# LINTEL SCHEDULE

TYPE	DESCRIPTION	M.O. DIMENSIONS	DETAIL REF.	LINTEL	REMARKS
L-1	OVERHEAD DOOR	14'-0" X 16'-0"	1/A508	WT 8 X 18	INSPECTION BUILDING
L-2	SINGLE WALK DOOR	3'-4" X 7'-4"	E/A508	(1) NO. 4 CONT.	BOND BEAM, GROUT 1 COURSE ABOVE
L-3	KNOCK OUT PANEL	3'-4" X 1'-4"	1/A202	WT 8 X 18	CELLULAR BUILDING
L-4	DOUBLE WALK DOOR	6'-8" X 7'-4"	E/A508	(1) NO. 4 CONT.	BOND BEAM, GROUT 2 COURSES ABOVE
L-5	WALK DOOR	3'-4" X 7'-4"	-	∠ 4 X 4 X 3/8	SCALE BUILDING

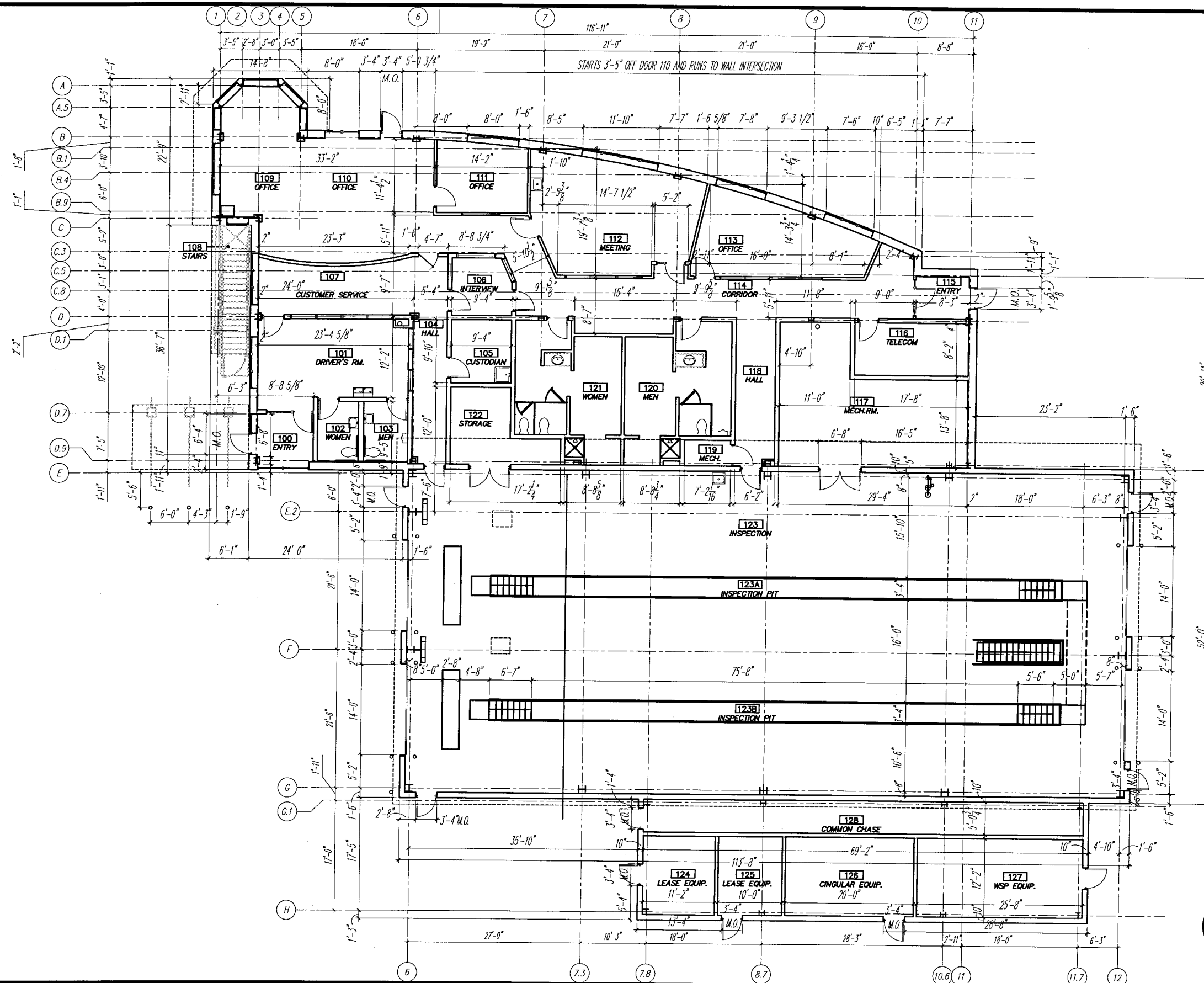
NOTE: REFER TO WINDOW SCHEDULE FOR WINDOW LINTELS.

# LEGEND

- WINDOW
- DOOR
- BORROWED LITE (HOLLOW METAL FRAME), REFER TO A504
- PARTITION TYPE, REFER TO PARTITION KEY G102
- F.E. - FIRE EXTINGUISHER ON WALL MOUNTED BRACKET, REFER TO SPECIFICATIONS
- F.E.C. - FIRE EXTINGUISHER CABINET, REFER TO SPECIFICATIONS

DOOR/WINDOW/BORR. LITES/PARTITION TYPES  
SCALE: 1/16" = 1'-0"





NOTE: ALL DIMENSIONS ARE FINISHED  
FACE TO FINISHED FACE

NOTE: REFER TO SHEET A105 &  
G102 FOR PARTITION TYPES

**1**  
**A106** **GROUND FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

**DIMENSION PLAN - GROUND FLOOR**

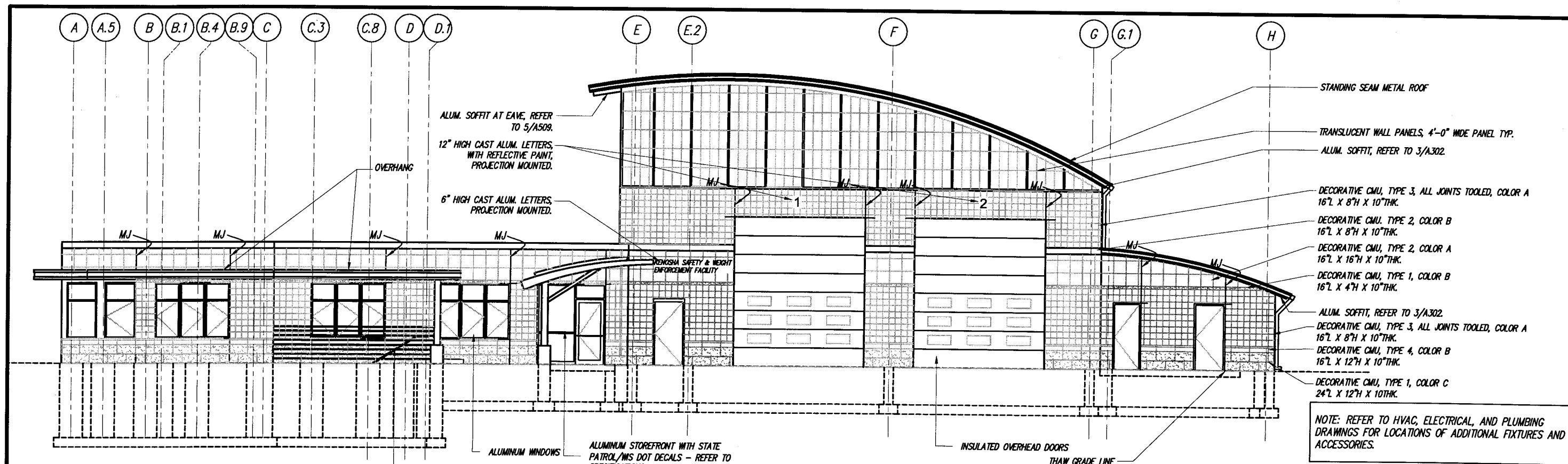
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

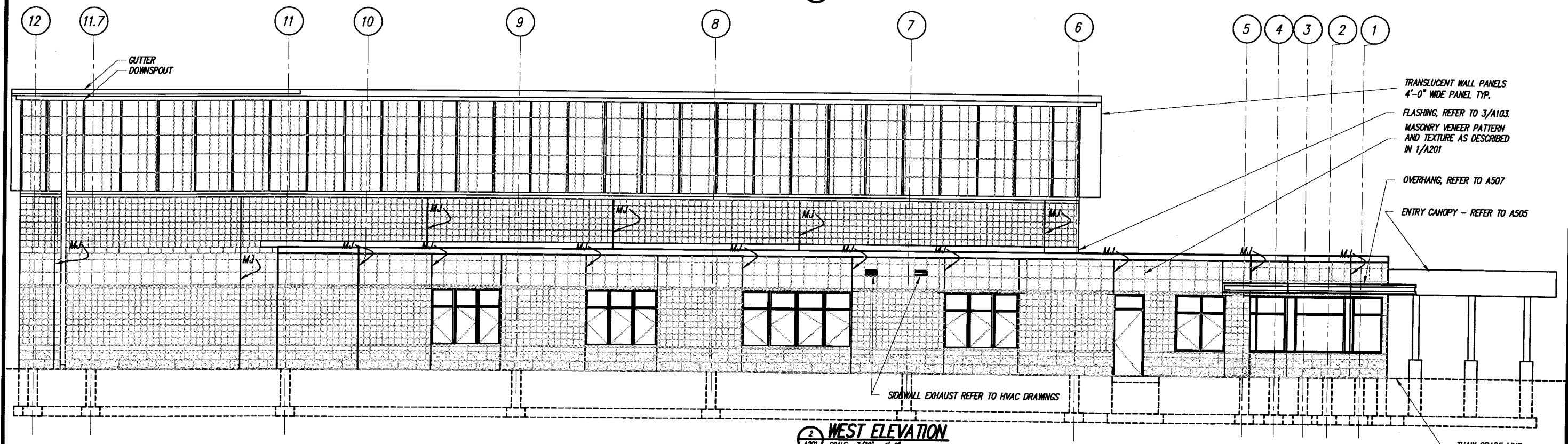
DATE: 1/1/02

SHEET NO: 134 OF


DWG. **A106**

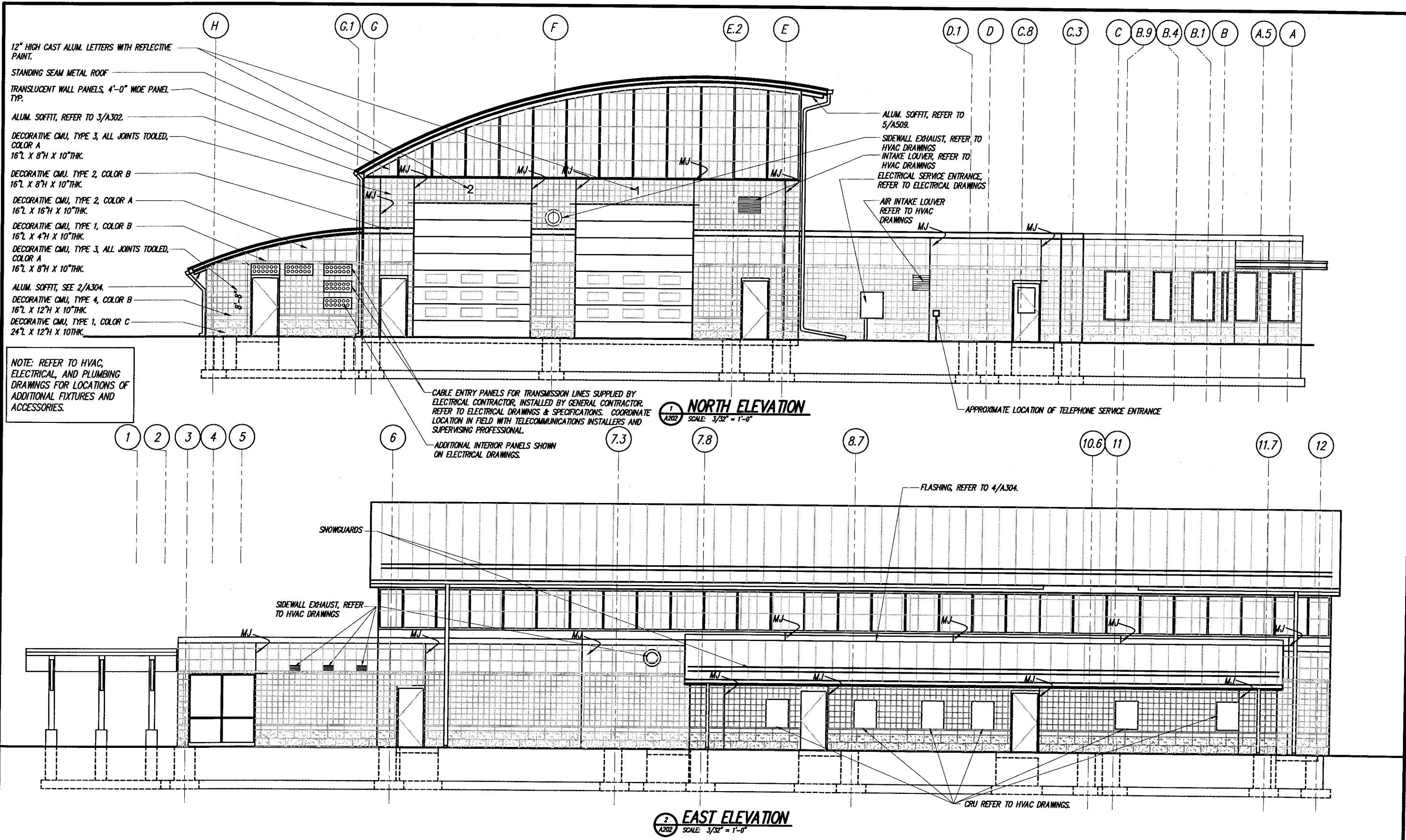


**1 SOUTH ELEVATION**  
SCALE: 3/32" = 1'-0"

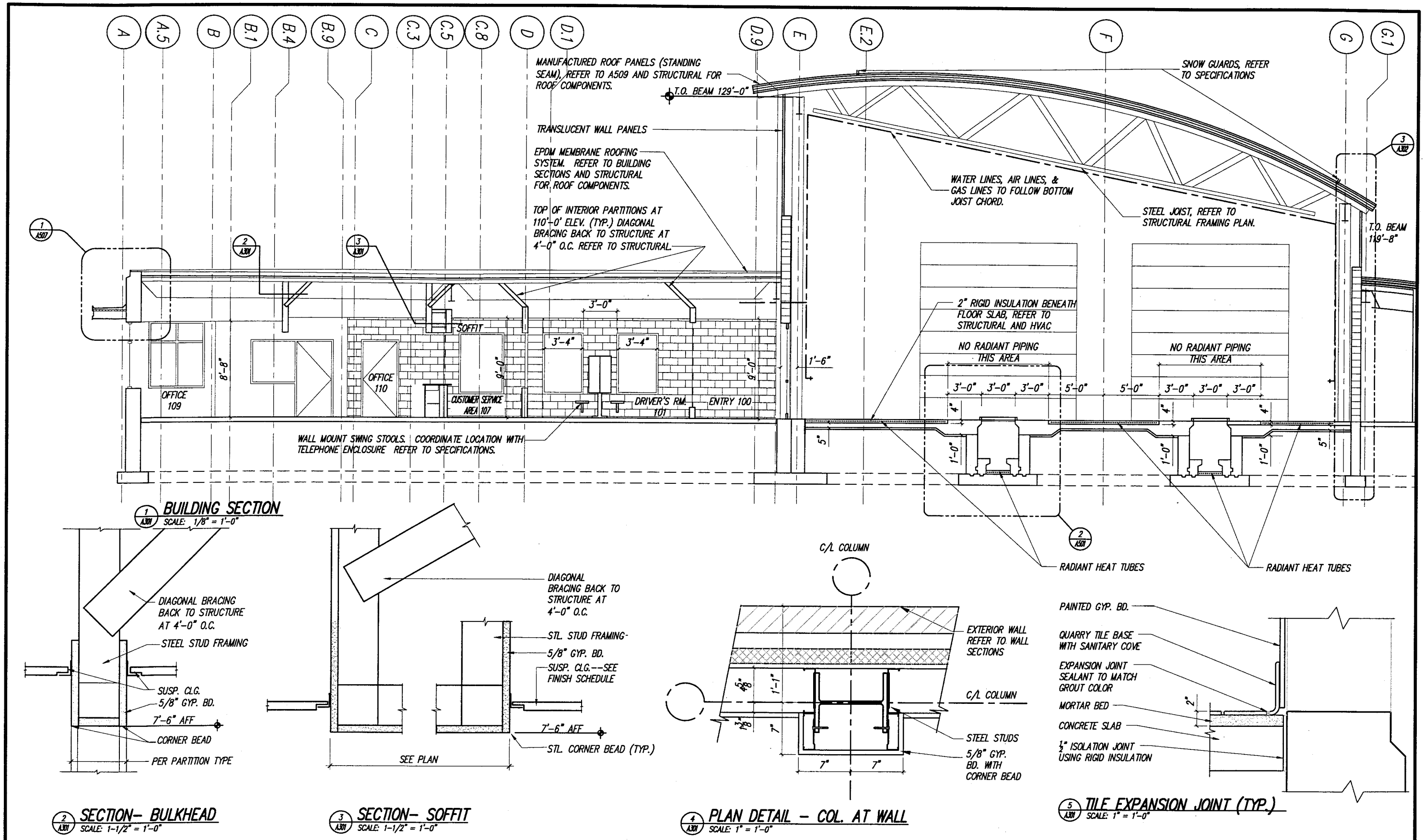


**2 WEST ELEVATION**  
SCALE: 3/32" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI				BUILDING ELEVATIONS – SOUTH & WEST			DATE: 1/1/02						
STATE PROJECT NUMBER: 1032-08-70 (c)		HWY: INTERSTATE 94 AT ML		COUNTY: KENOSHA		SAFETY & WEIGHT FACILITY NO. 21		SCALE, FEET 		SHEET NO: 135 OF		DWG. A201	



PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI				<b>BUILDING ELEVATIONS – NORTH &amp; EAST</b>		DATE: 1/1/02
STATE PROJECT NUMBER: 1032-08-70 (c)	HWY: INTERSTATE 94 AT ML	COUNTY: KENOSHA		SAFETY & WEIGHT FACILITY NO. 21	SCALE, FEET	SHEET NO: 136 OF
						DWG. <b>A202</b>



PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

# **BUILDING SECTIONS**

SAFETY & WEIGHT FACILITY NO. 21

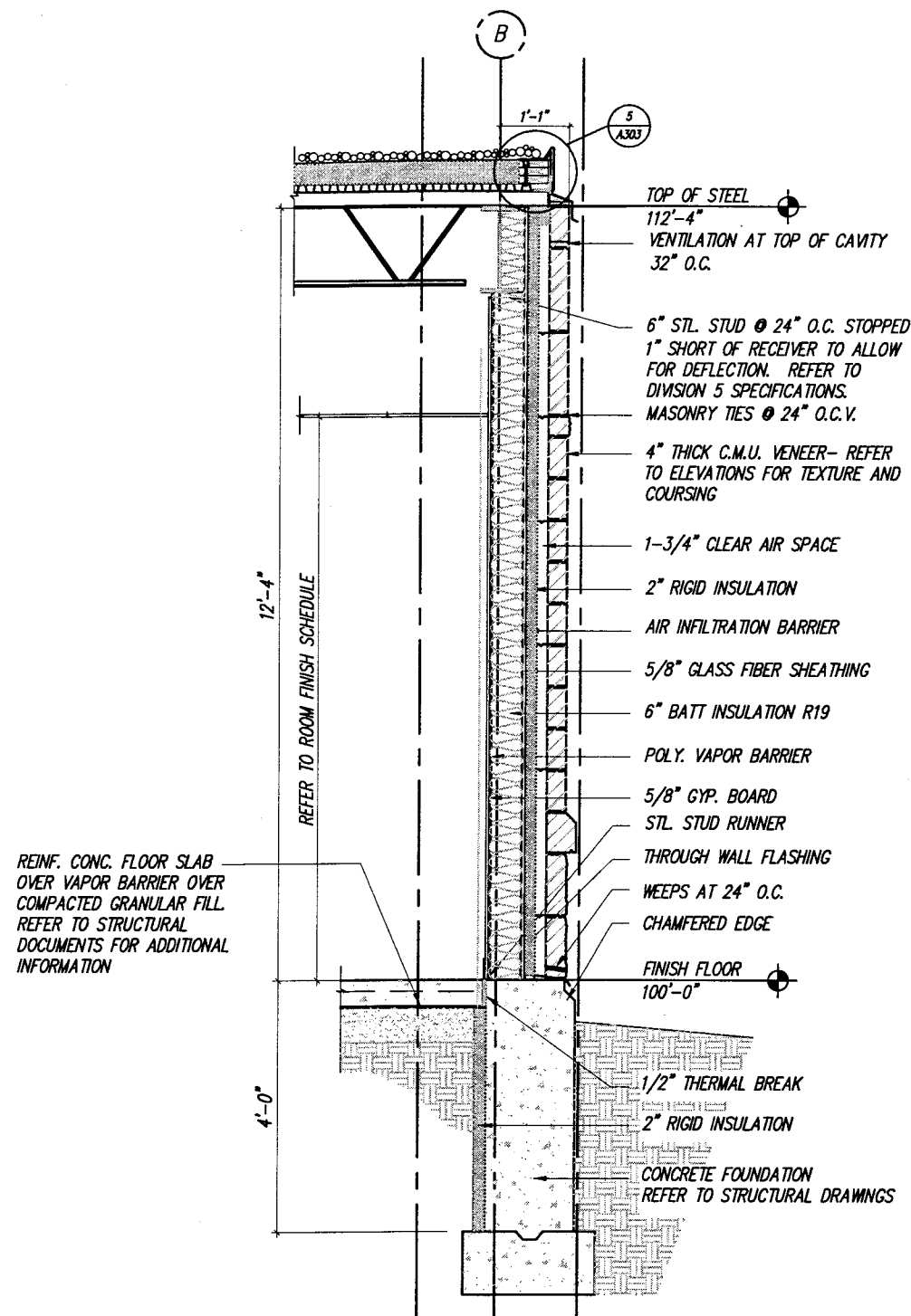
SCALE, FEET

0

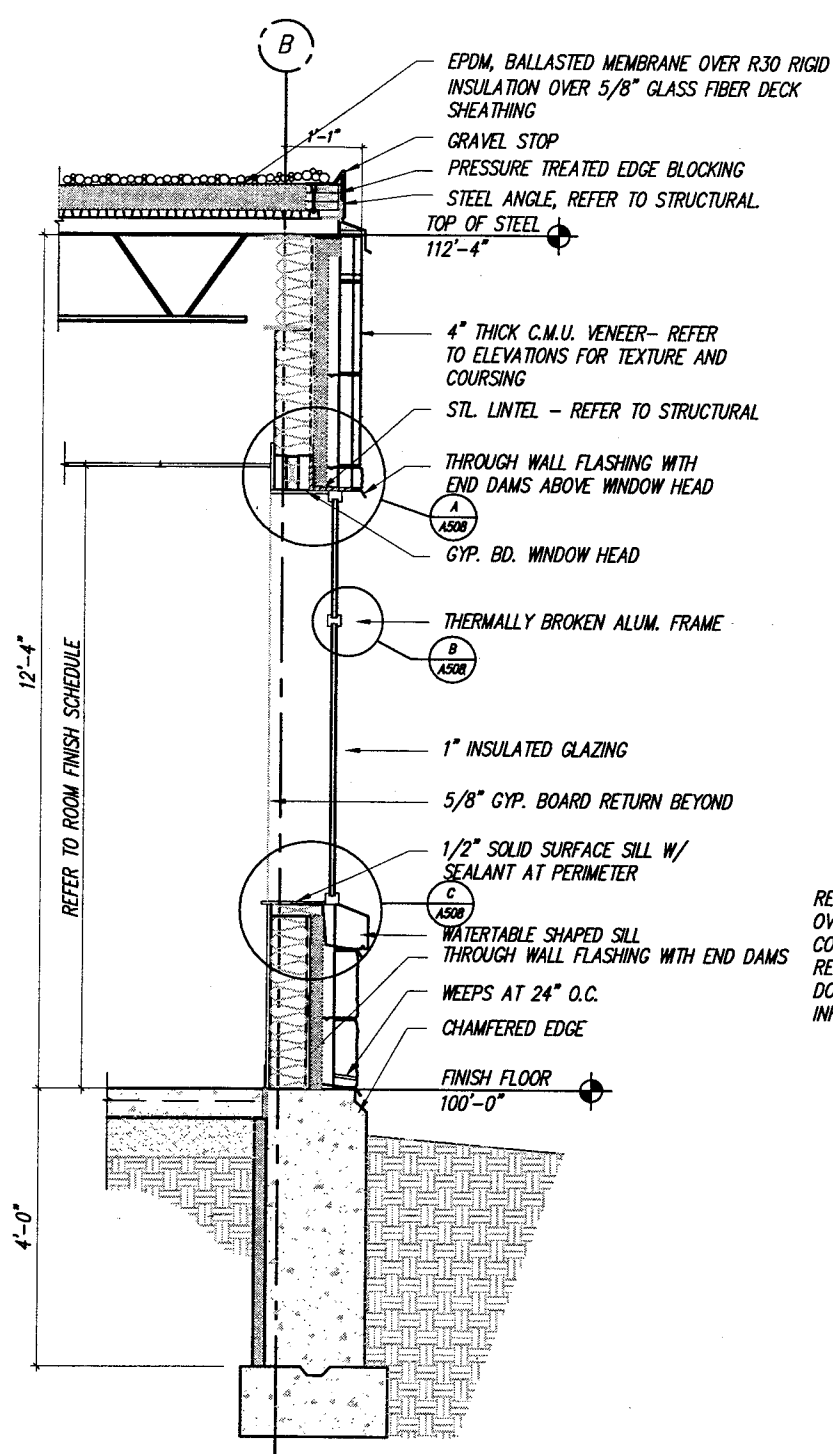
DATE: 1/1/02

SHEET NO: 137 OF

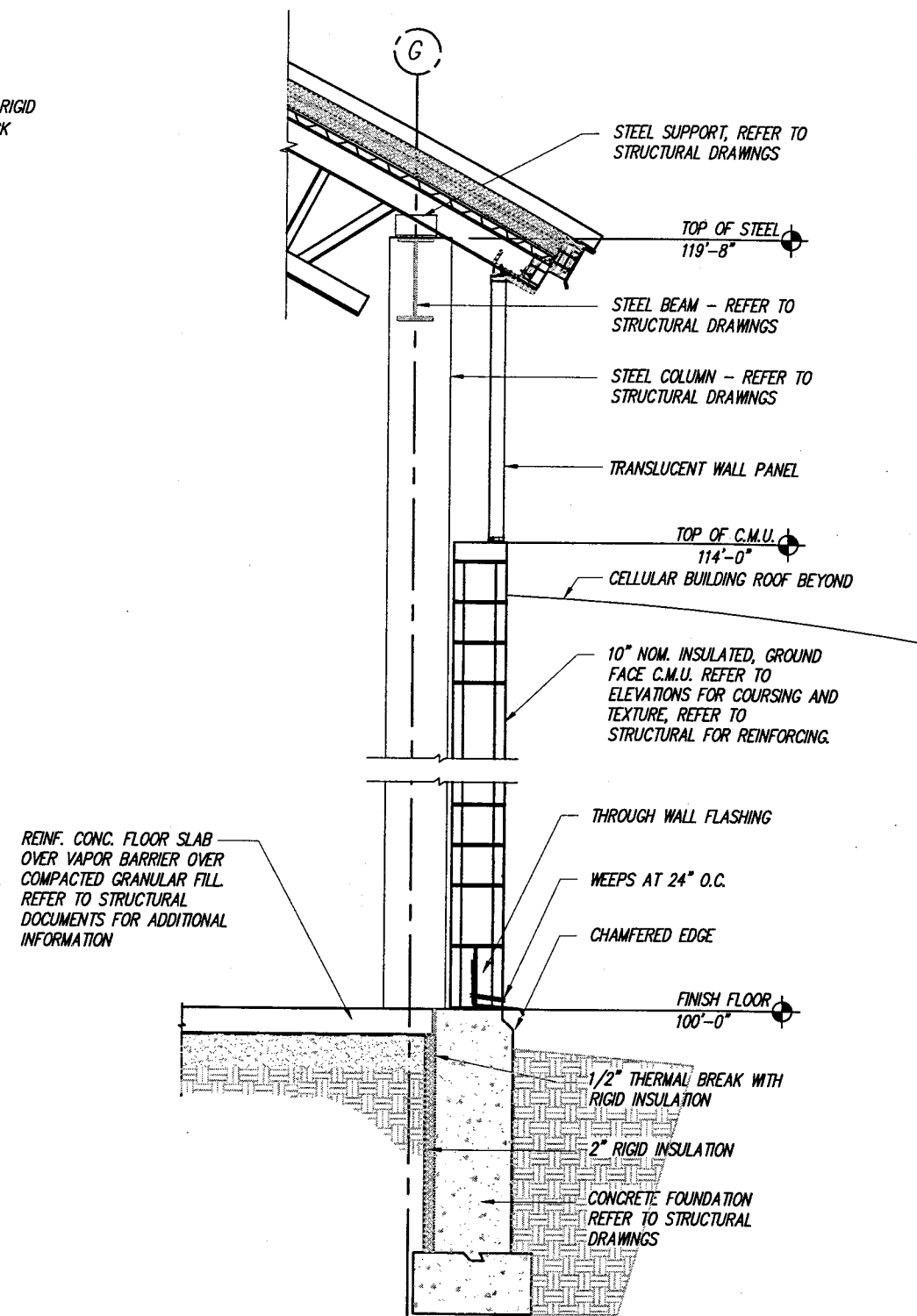
DWG. A301



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



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



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

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

### WALL SECTIONS

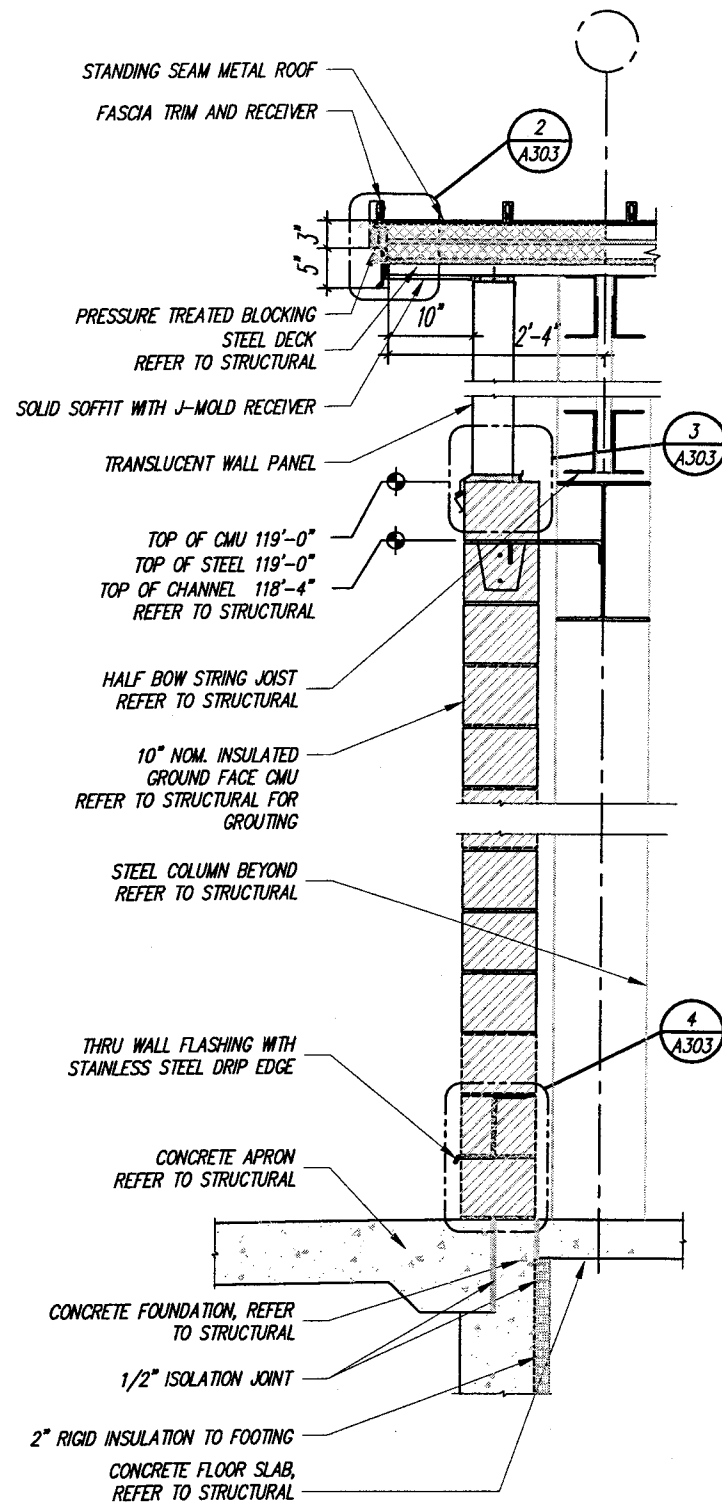
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

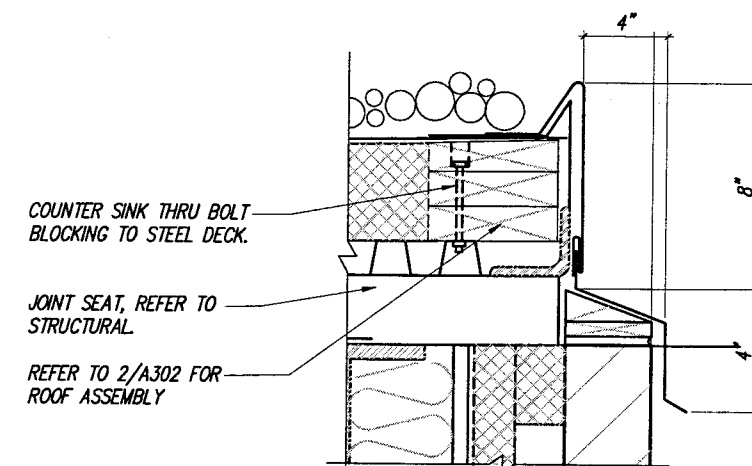
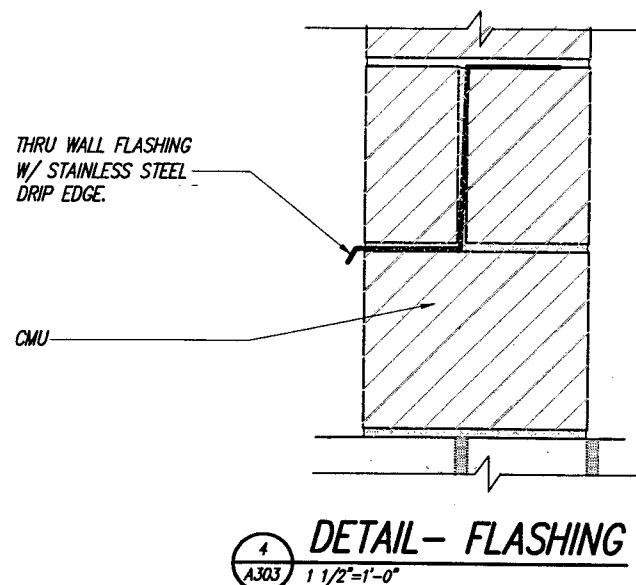
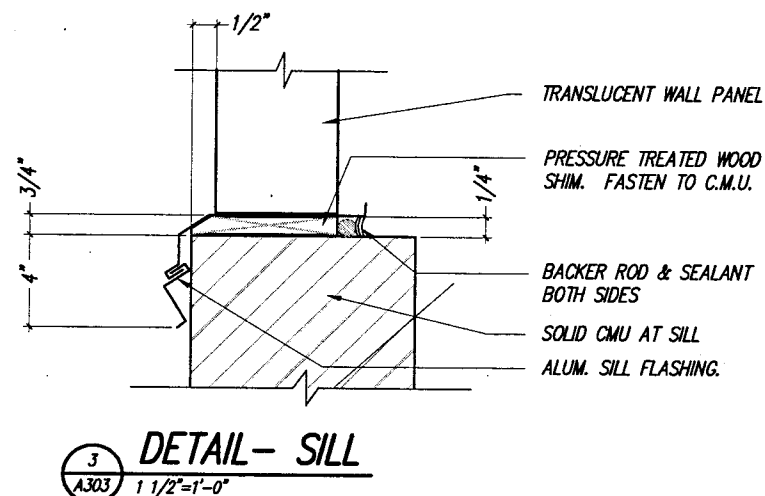
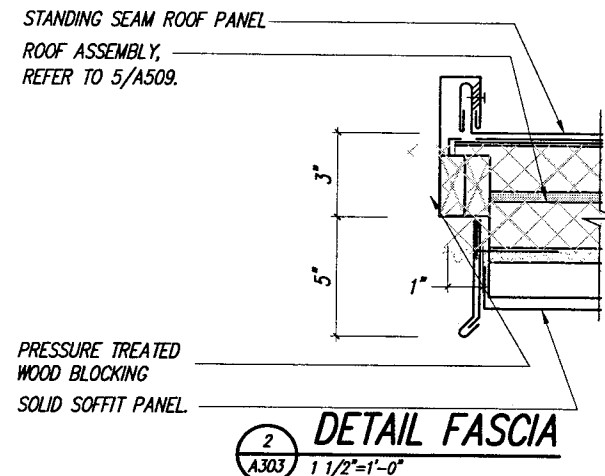
SHEET NO: 138 OF

DWG. A302



1  
A303 1/2"=1'-0"

**SECTION- INSPECTION WALL**



PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

**WALL SECTIONS & DETAILS**

SAFETY & WEIGHT FACILITY NO. 21

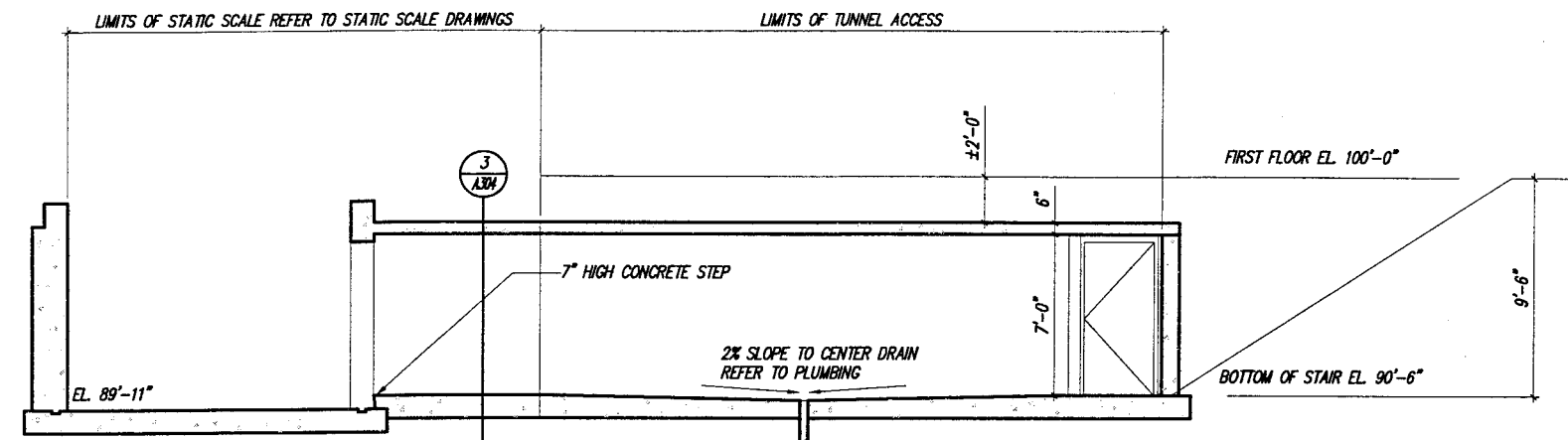
SCALE, FEET 0

DATE: 1/1/02

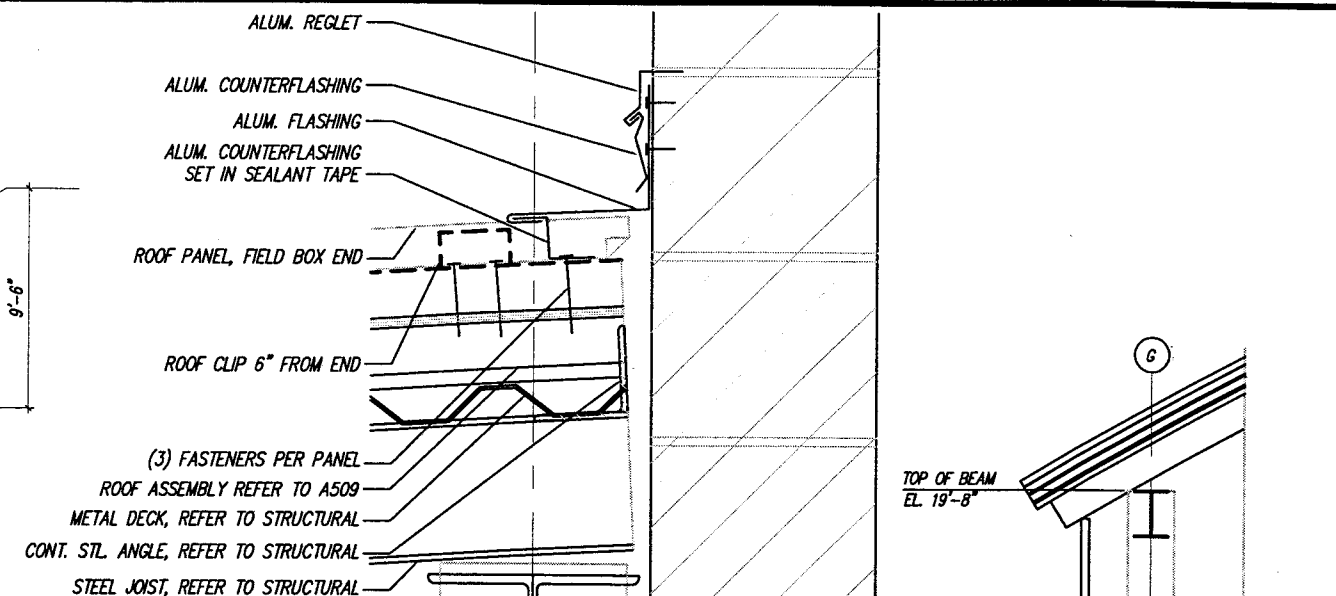
SHEET NO: 139 OF

DWG. A303

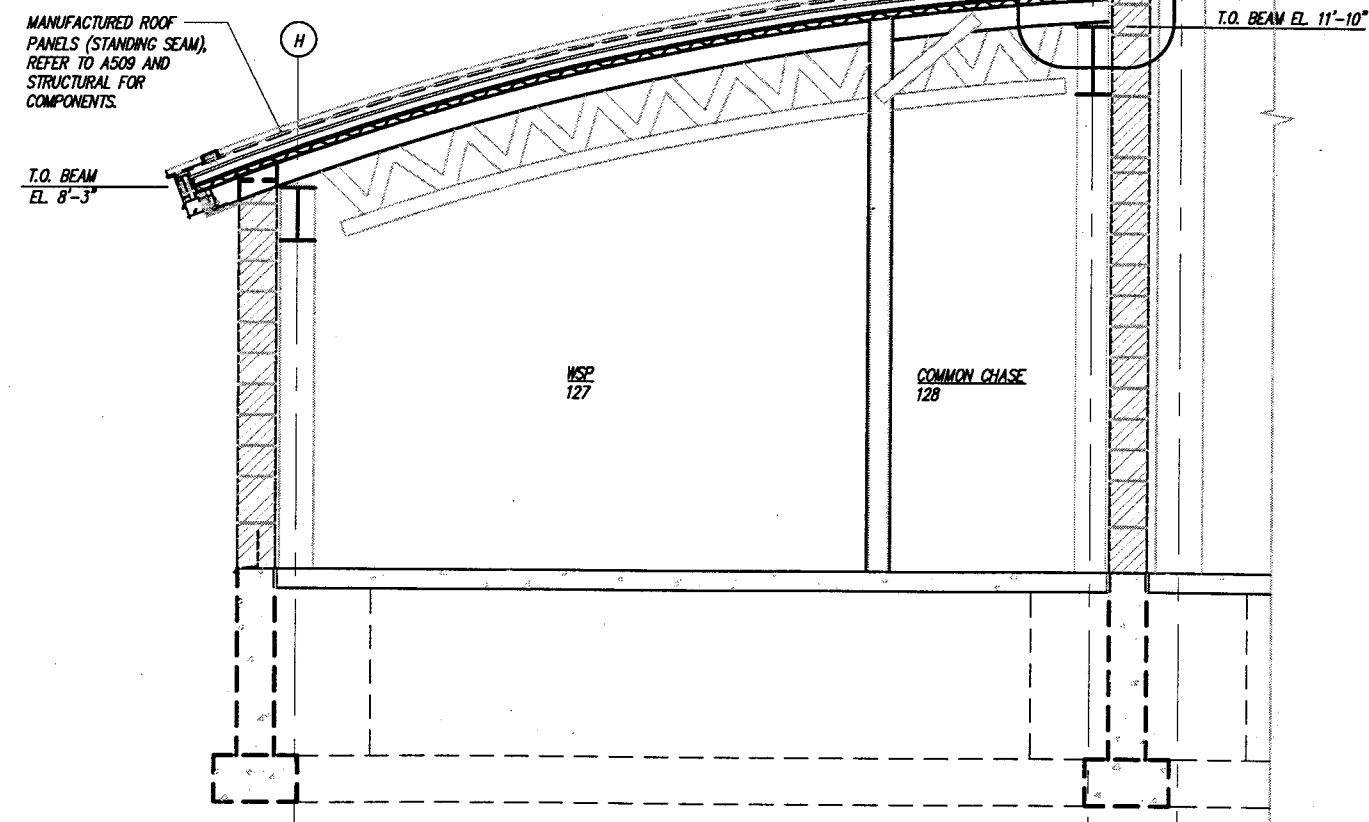




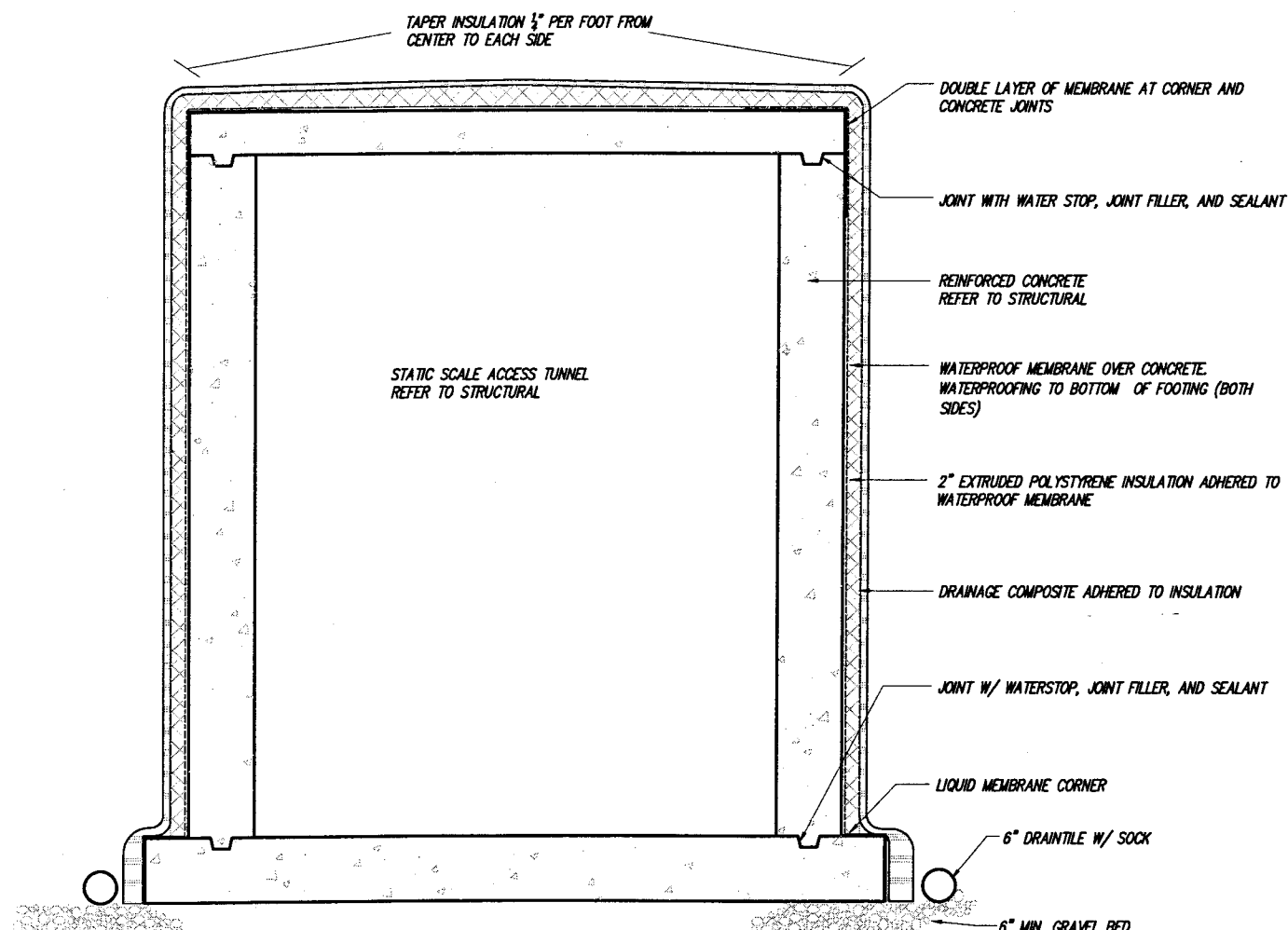
**SECTION- STATIC SCALE TUNNEL**  
1/8"=1'-0"



**SECTION- FLASHING**  
1-1/2"=1'-0"



**SECTION- CELLULAR BUILDING**  
1/4"=1'-0"



**SECTION- STATIC SCALE TUNNEL WATERPROOFING**  
1/2"=1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

**SECTIONS**

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

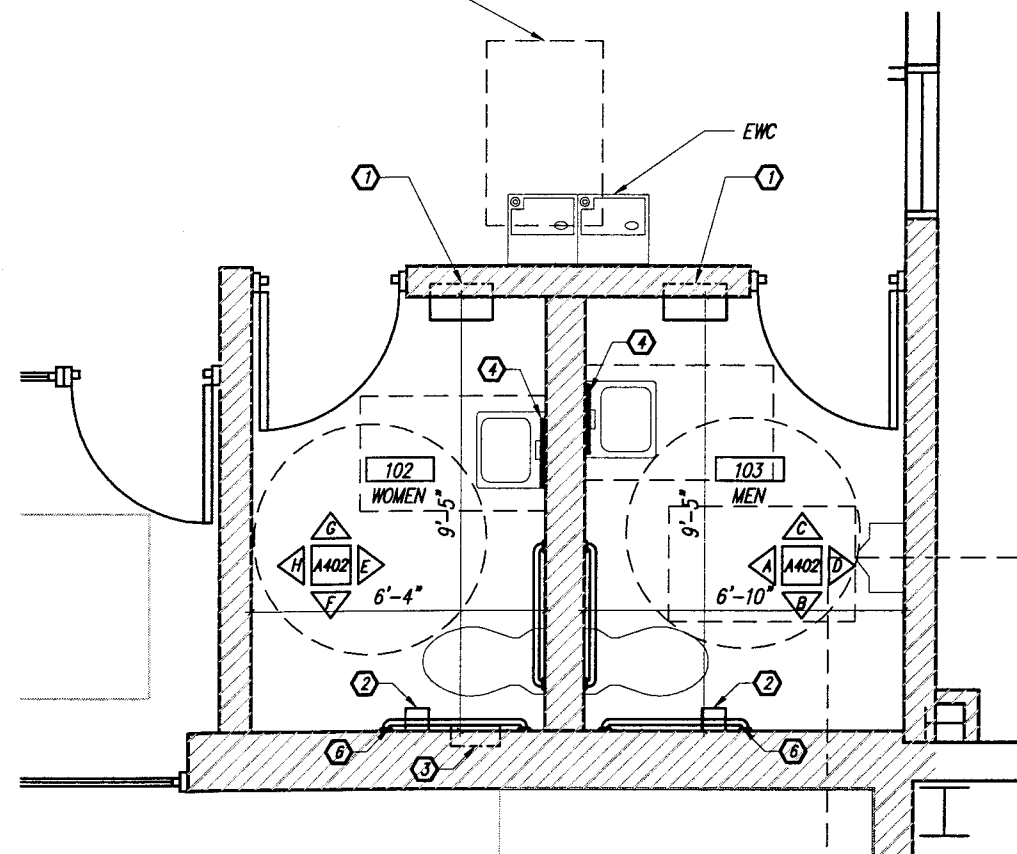
DATE: 1/1/02

SHEET NO: 140 OF

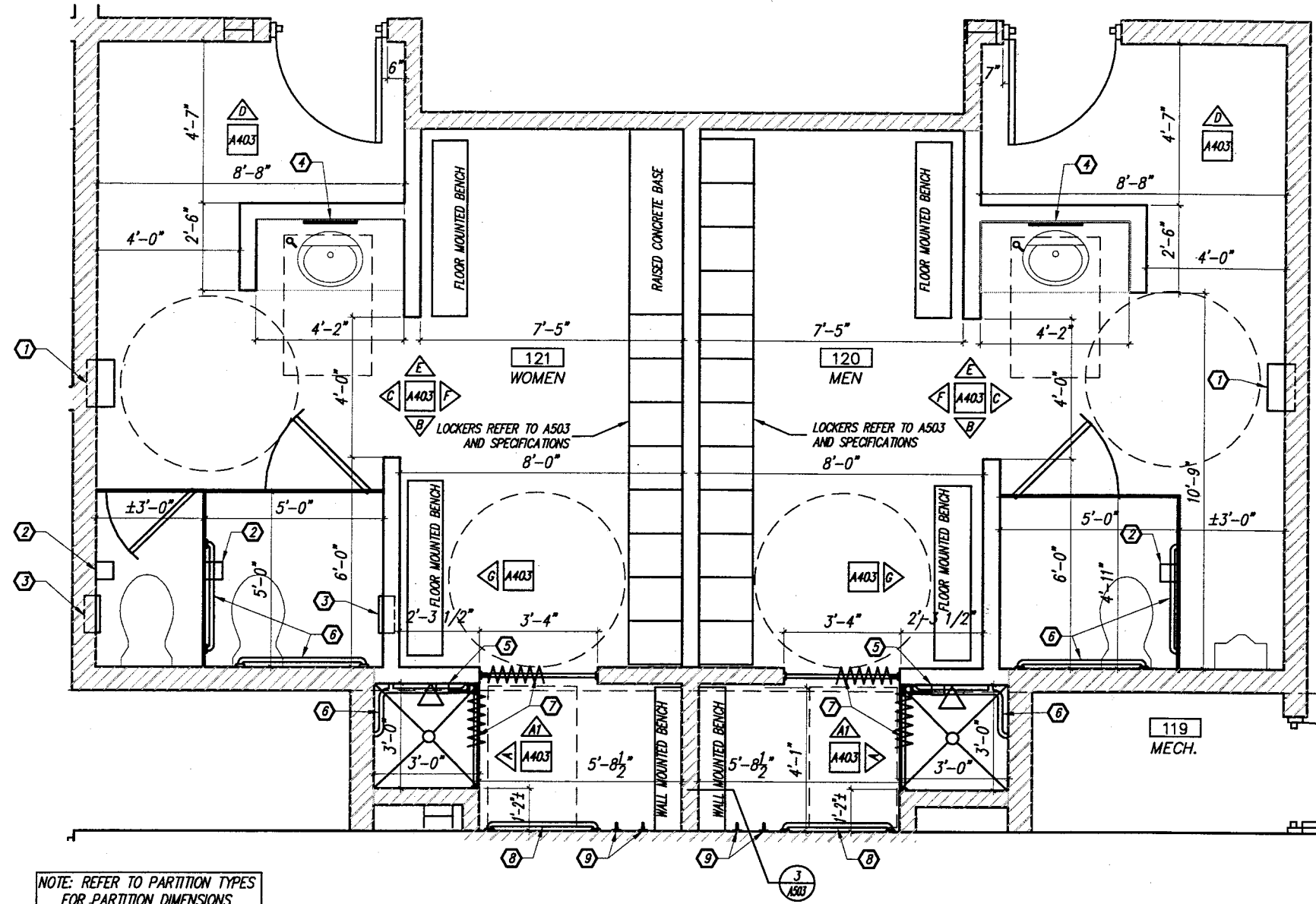
DWG. A304

- ① SEMI RECESSED PAPER TOWEL / TRASH. REFER TO SPECIFICATION SECTION 10800.
- ② SURFACE MOUNTED TOILET PAPER DISPENSER. REFER TO SPECIFICATIONS.
- ③ RECESSED SANITARY NAPKIN DISPOSAL. REFER TO SPECIFICATIONS.
- ④ SURFACE MOUNTED MIRROR. REFER TO SPECIFICATIONS.
- ⑤ SURFACE MOUNTED SOAP DISH & BAR. REFER TO SPECIFICATIONS.
- ⑥ SURFACE MOUNTED GRAB BAR. REFER TO SPECIFICATIONS.
- ⑦ SHOWER CURTAIN ROD. REFER TO SPECIFICATIONS.
- ⑧ SURFACE MOUNTED TOWEL BAR. REFER TO SPECIFICATIONS.
- ⑨ SURFACE MOUNTED CLOTHES HOOK. REFER TO SPECIFICATIONS.

DASHED LINES INDICATE ADA  
REQUIRED CLEARANCES



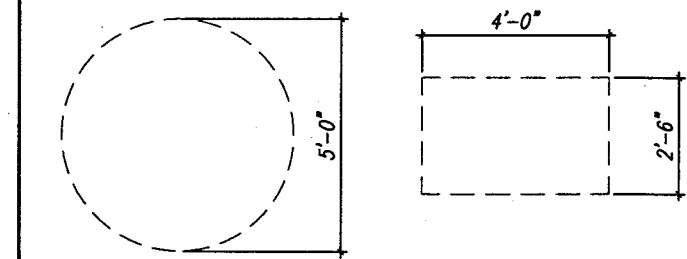
1 ENLARGED PLAN - TOILET ROOMS 102 & 103  
A401 1/4" = 1'-0"



2 ENLARGED PLAN - LOCKER ROOMS  
A401 1/4" = 1'-0"

# LEGEND

CLEAR FLOOR SPACE REQUIRED BY ADA



PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

ENLARGED PLANS - LOCKER / TOILET ROOMS

SAFETY & WEIGHT FACILITY NO. 21

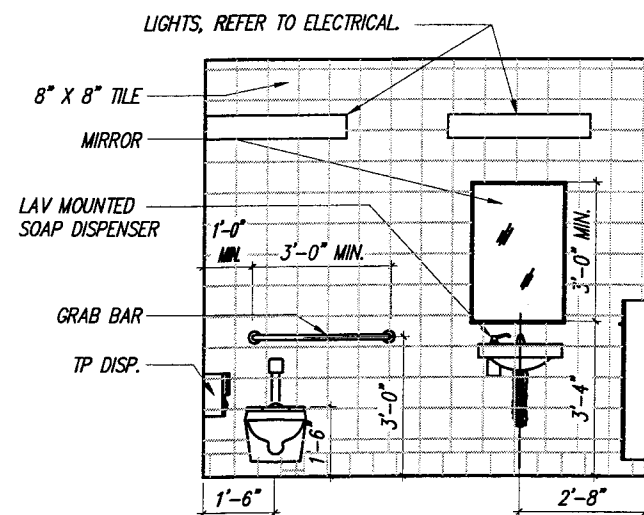
SCALE, FEET

DATE: 1/1/02

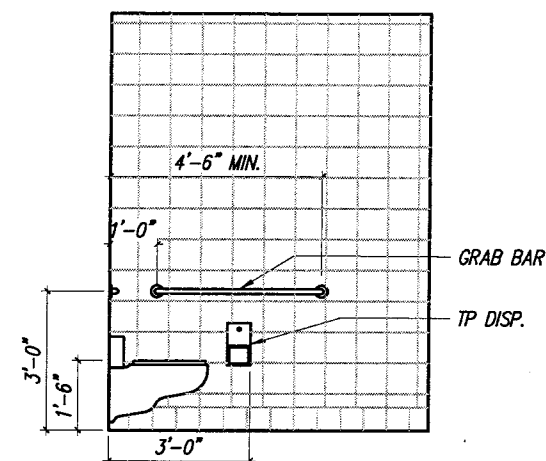
SHEET NO: 141 OF

DWG. A401

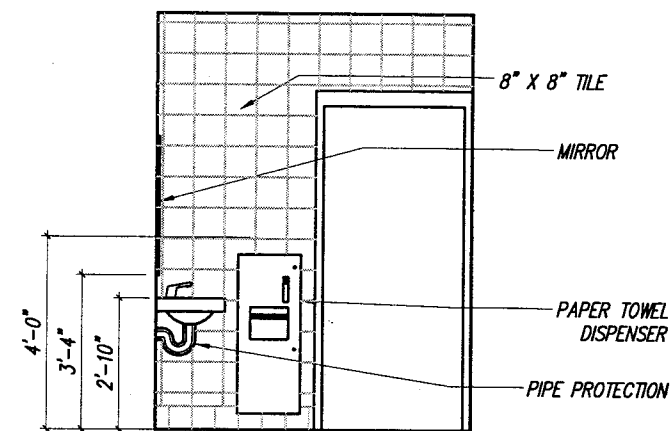




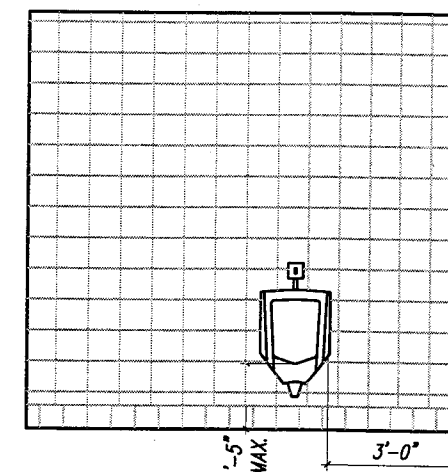
**A INT. ELEV.- MEN 103**  
SCALE: 1/4" = 1'-0"



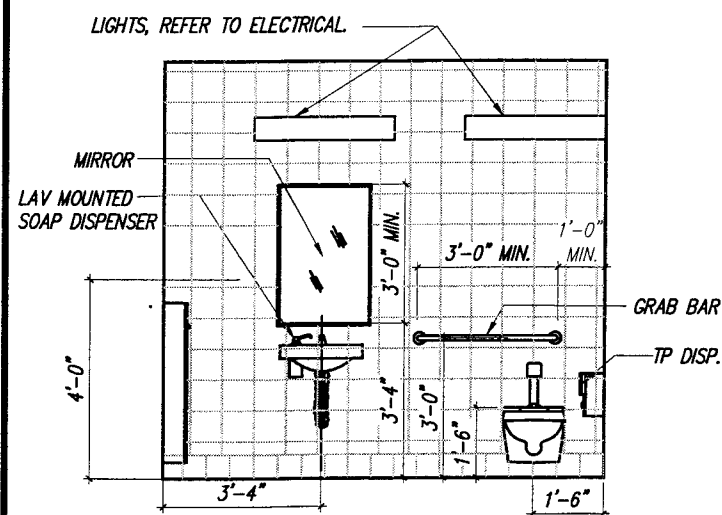
**B INT. ELEV.- MEN 103**  
SCALE: 1/4" = 1'-0"



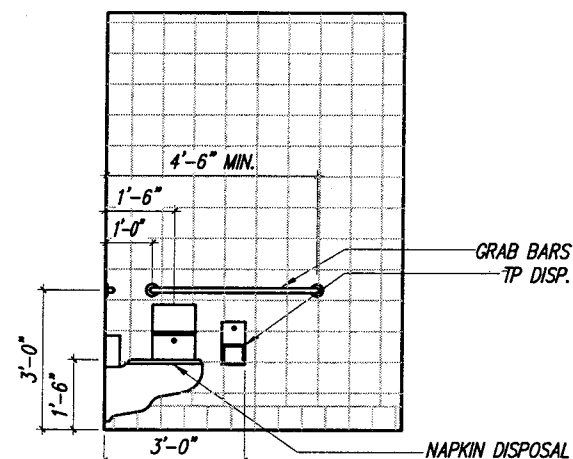
**C INT. ELEV.- MEN 103**  
SCALE: 1/4" = 1'-0"



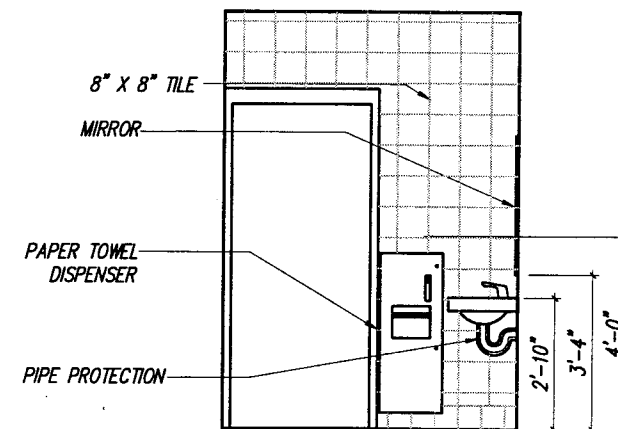
**D INT. ELEV.- MEN 103**  
SCALE: 1/4" = 1'-0"



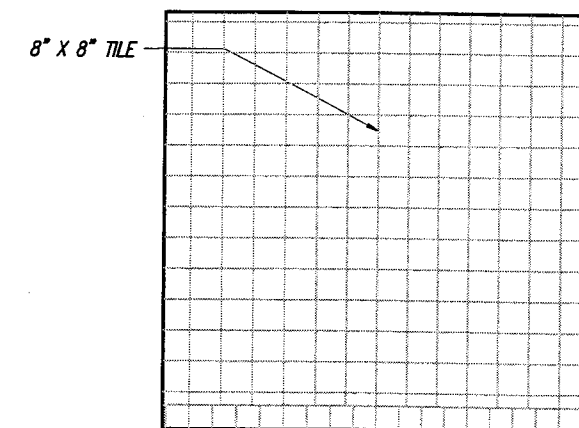
**E INT. ELEV.- WOMEN 102**  
SCALE: 1/4" = 1'-0"



**F INT. ELEV.- WOMEN 102**  
SCALE: 1/4" = 1'-0"



**G INT. ELEV.- WOMEN 102**  
SCALE: 1/4" = 1'-0"



**H INT. ELEV.- WOMEN 102**  
SCALE: 1/4" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c)

HWY: INTERSTATE 94 AT ML

COUNTY: KENOSHA

**INTERIOR ELEVATIONS**

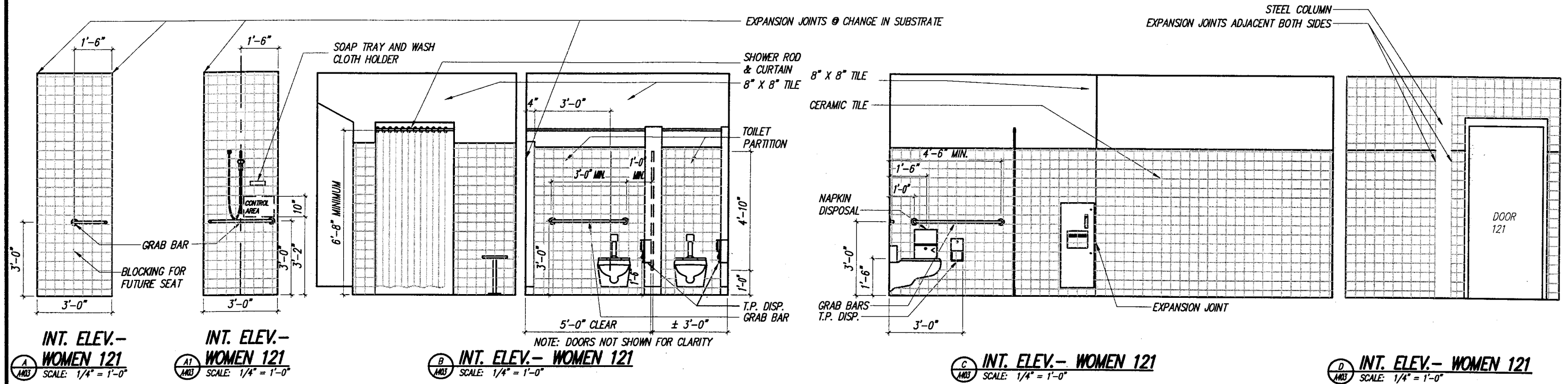
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

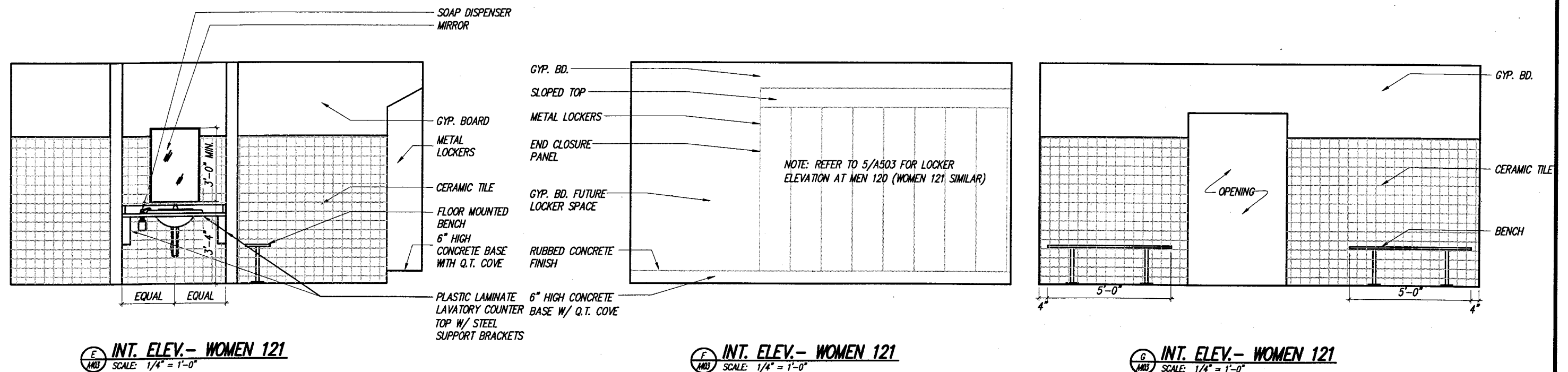
DATE: 1/1/02

SHEET NO: 142 OF

DWG. A402



NOTE: MEN 120 SIMILAR



PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

INTERIOR ELEVATIONS

DATE: 1/1/02

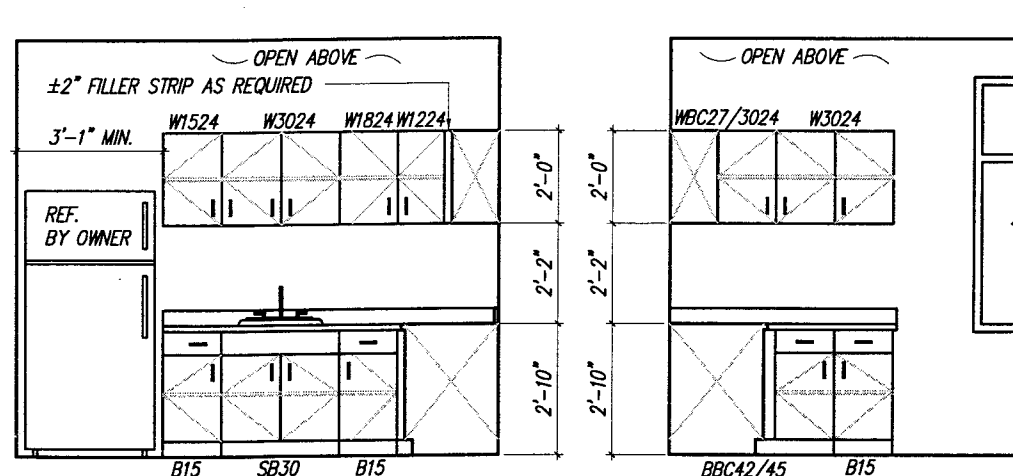
STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

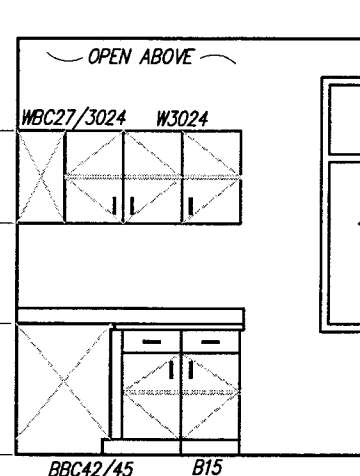
SHEET NO: 143 OF

DWG. A403



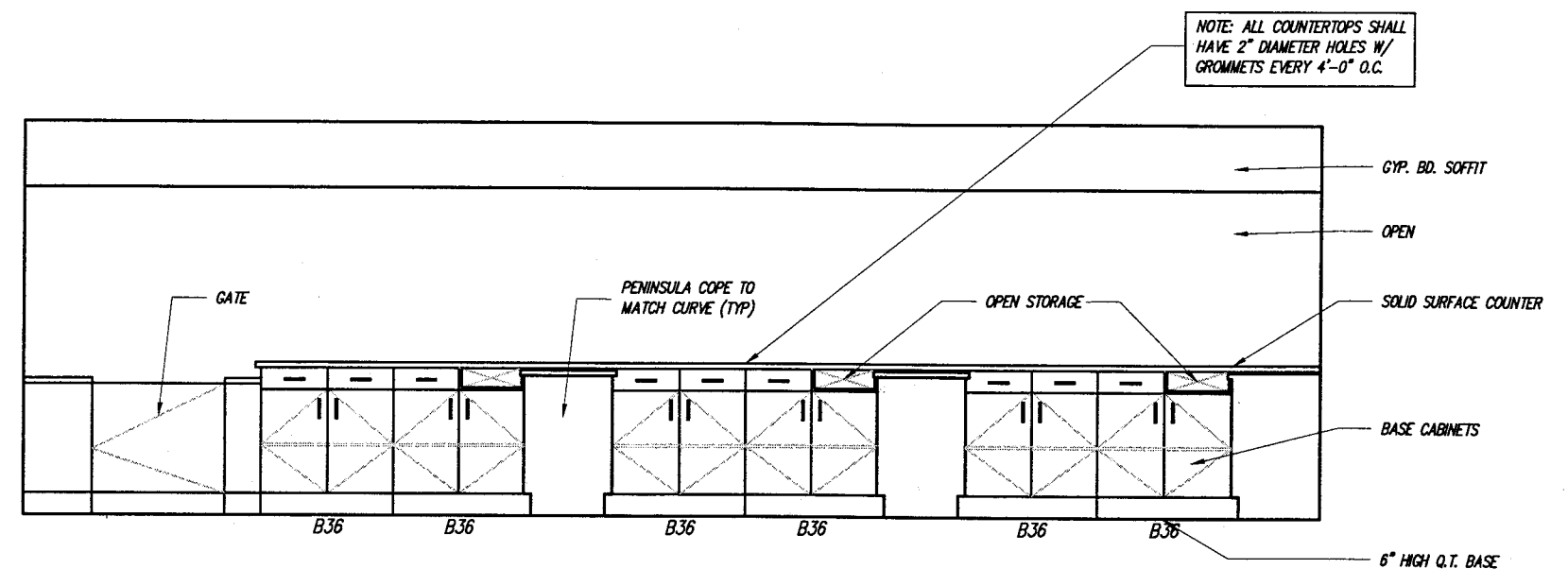
NOTE: PROVIDE FINISHED END PANELS, BACKSPLASH, AND SIDE SPLASHES AS REQUIRED FOR FINISHED APPEARANCE (TYP. ALL CASEWORK).

**A INT. ELEV.- MEETING 112**  
SCALE: 1/4" = 1'-0"

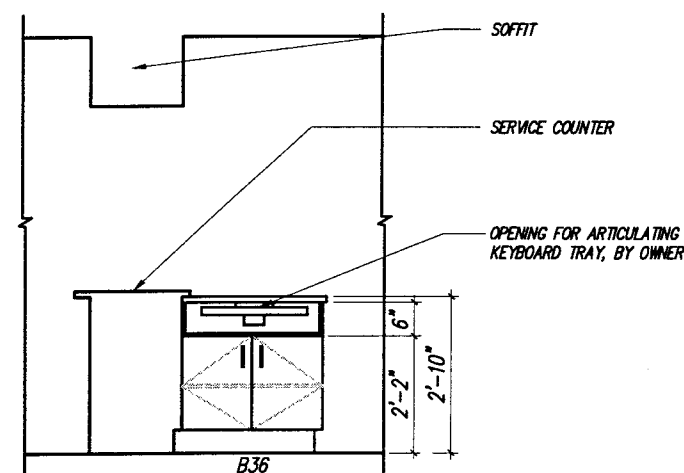


NOTE: PROVIDE FINISHED END PANELS, BACKSPLASH, AND SIDE SPLASHES AS REQUIRED FOR FINISHED APPEARANCE (TYP. ALL CASEWORK).

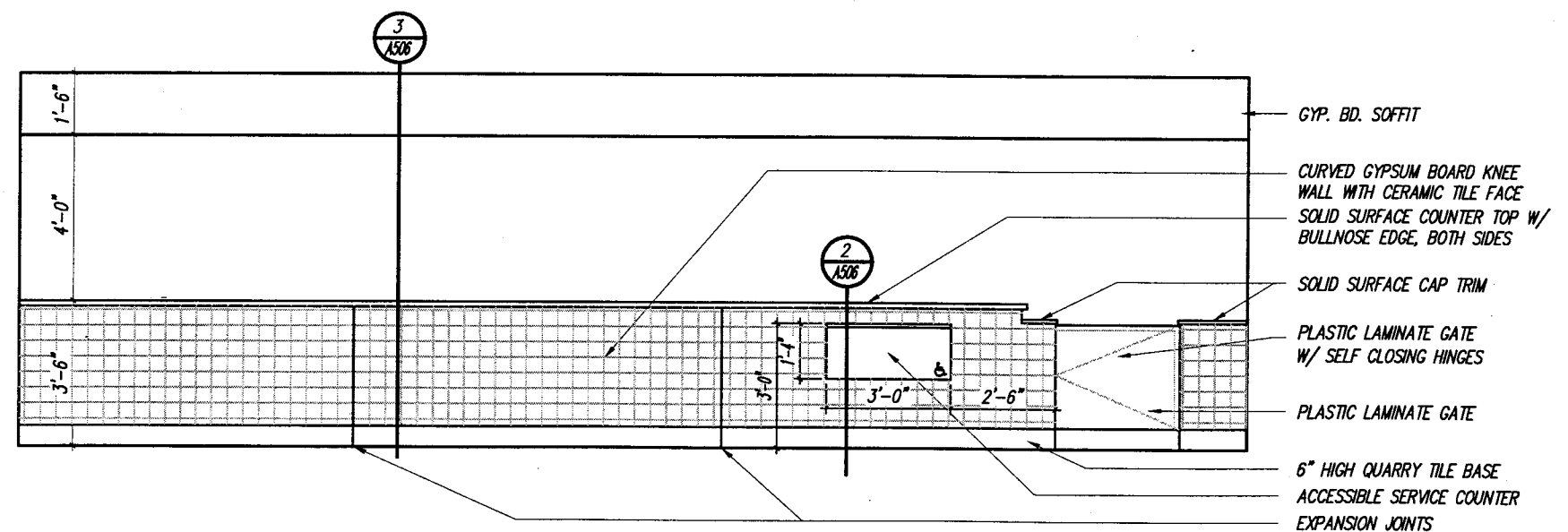
**B INT. ELEV.- MEETING 112**  
SCALE: 1/4" = 1'-0"



**C INT. ELEV.- OFFICE 110**  
SCALE: 1/4" = 1'-0"



**D INT. ELEV.- OFFICE 110**  
SCALE: 1/4" = 1'-0"



**E INT. ELEV.- CUSTOMER SERVICE 107**  
SCALE: 1/4" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

**INTERIOR ELEVATIONS**

SAFETY & WEIGHT FACILITY NO. 21

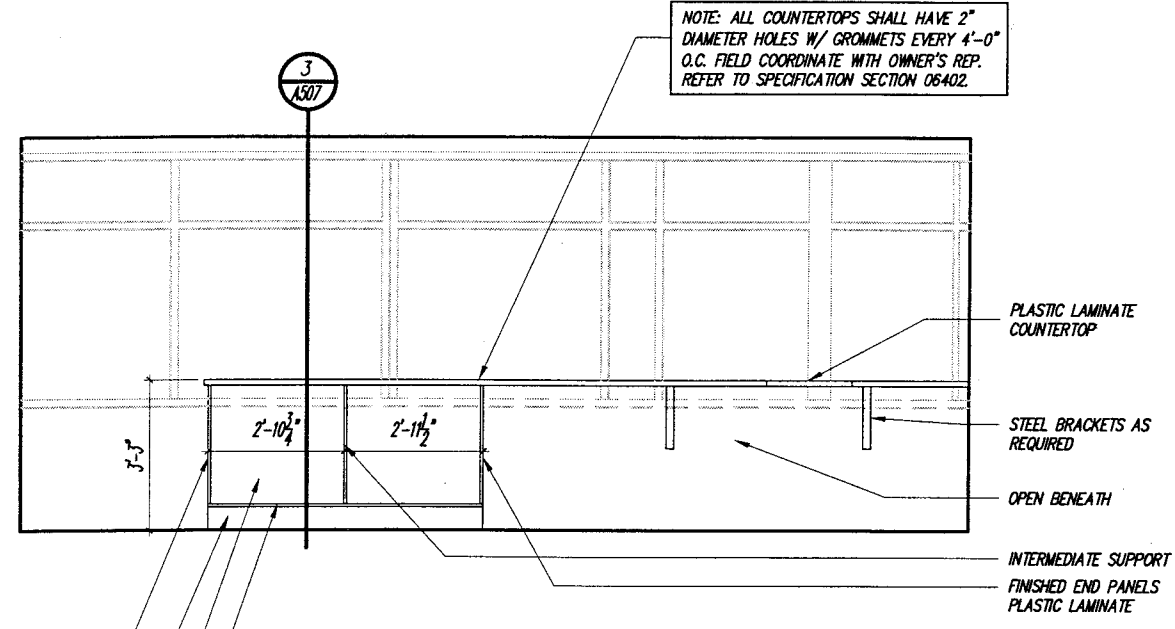
SCALE, FEET



DATE: 1/1/02

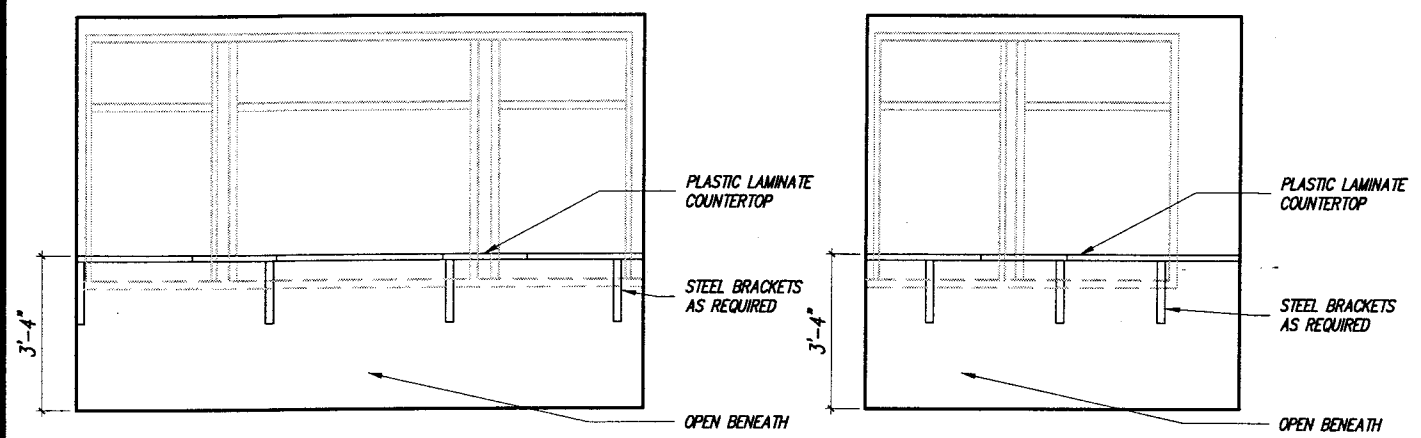
SHEET NO: 144 OF

DWG. A404



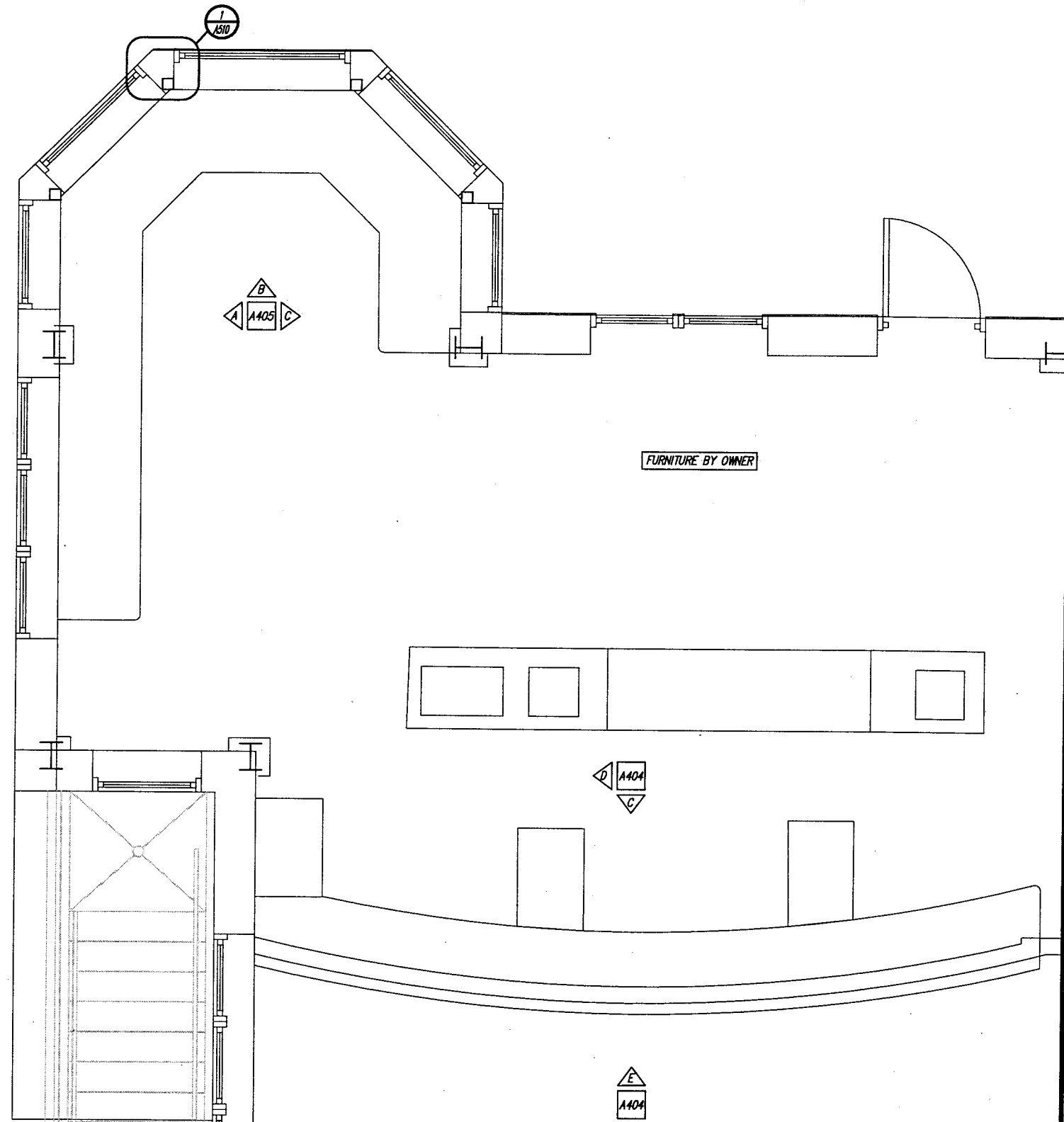
**INT. ELEV.- OFFICE 109**  
SCALE: 1/4" = 1'-0"

RAISED PLYWOOD PLATFORM FOR  
FILE CABINETS  
OPEN  
FINISHED QUARRY TILE BASE  
FINISHED END PANELS PLASTIC  
LAMINATE

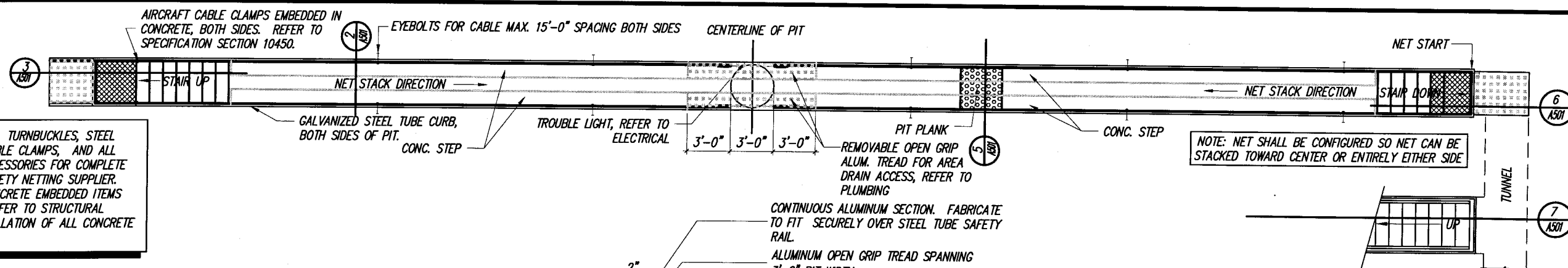


**INT. ELEV.- OFFICE 109**  
SCALE: 1/4" = 1'-0"

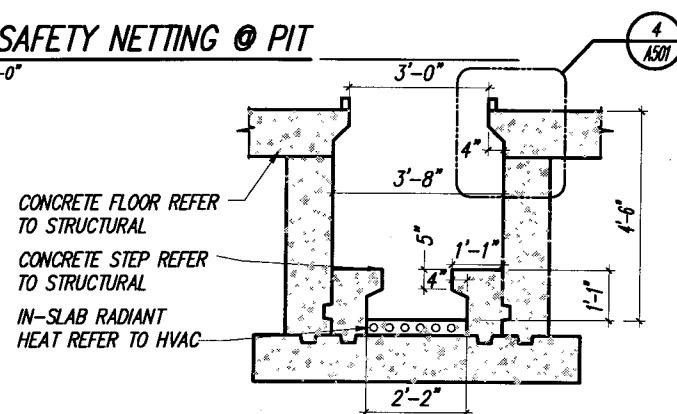
**INT. ELEV.- OFFICE 109**  
SCALE: 1/4" = 1'-0"



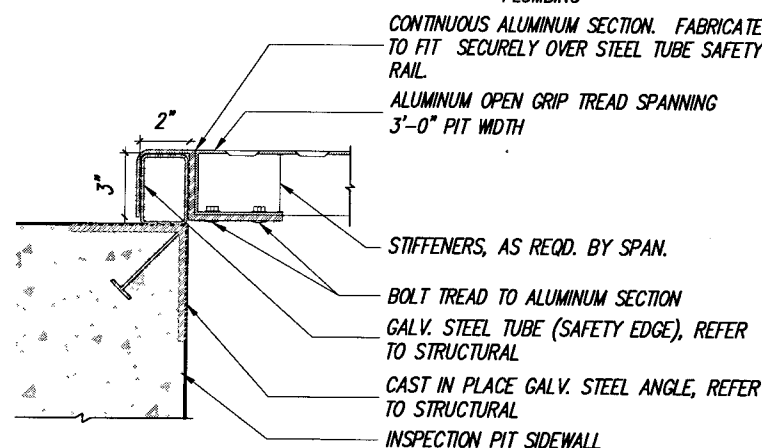
**ENLARGED PLAN- 107, 109, 110**  
SCALE: 1/4" = 1'-0"



1 PLAN - SAFETY NETTING @ PIT  
A501 SCALE: 1/8" = 1'-0"

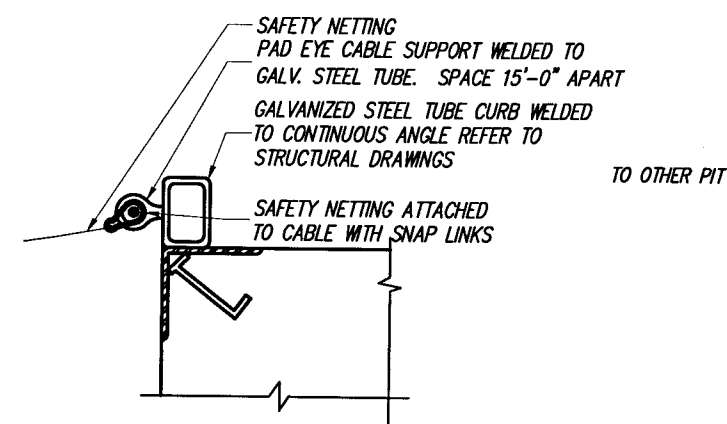


2 SECTION - PIT  
A501 SCALE: 1/4" = 1'-0"

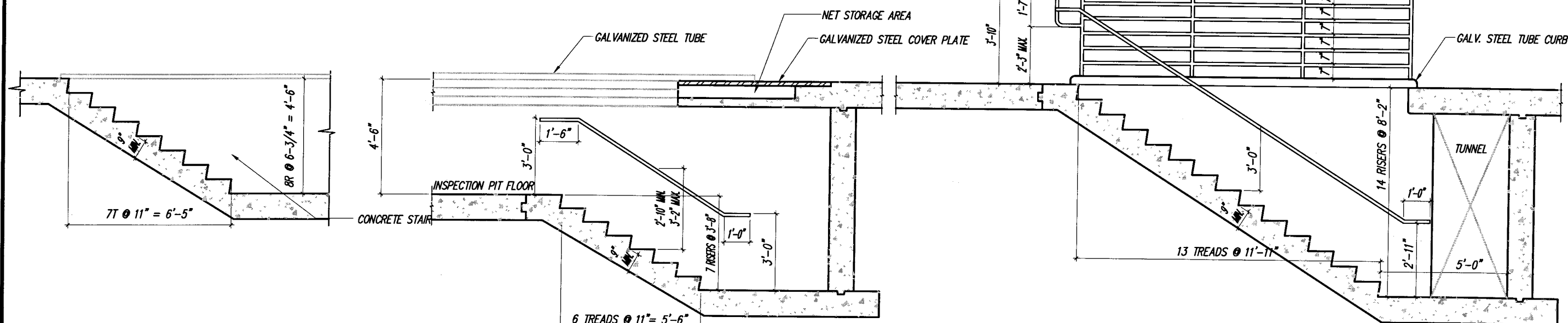


NOTE: PROVIDE ONE PIT PLANK FOR EACH INSPECTION PIT.

5 DETAIL - MOVEABLE PIT PLANK  
A501 SCALE: 1 1/2" = 1'-0"



4 DETAIL - NET ATTACHMENT  
A501 SCALE: 1 1/2" = 1'-0"



3 SECTION - PIT STAIRS  
A501 SCALE: 1/4" = 1'-0"

6 SECTION - TUNNEL ACCESS  
A501 SCALE: 1/4" = 1'-0"

7 SECTION - PIT ACCESS  
A501 SCALE: 1/4" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

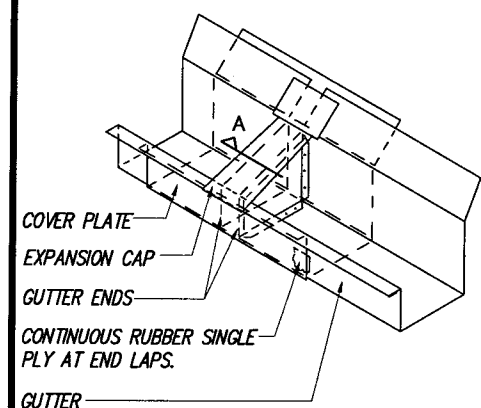
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

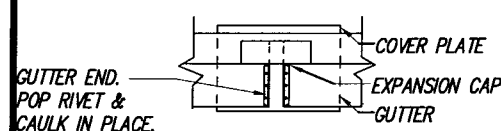
DATE: 1/1/02

SHEET NO: 146 OF

DWG. A501



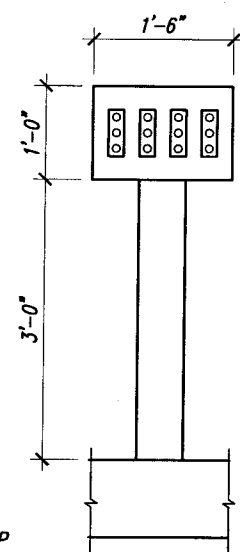
ISOMETRIC VIEW



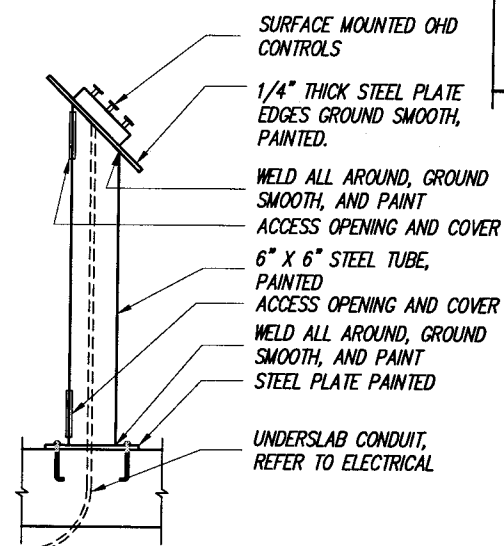
SECTION A

1 GUTTER EXPANSION JOINT  
SCALE: 1/2" = 1'-0"

NOTE: COORDINATE INSTALLATION OF ELECTRICAL CONDUIT & CUT OUTS FOR OVERHEAD DOOR OPENING DEVICES W/ OVERHEAD DOOR CONTRACTOR AND ELECTRICAL CONTRACTOR



2 DETAIL- OVERHEAD DOOR CONTROL CONSOLE  
SCALE: 1/2" = 1'-0"



SURFACE MOUNTED OHD CONTROLS  
1/4" THICK STEEL PLATE EDGES GROUND SMOOTH, PAINTED.  
WELD ALL AROUND, GROUND SMOOTH, AND PAINT  
ACCESS OPENING AND COVER  
6" X 6" STEEL TUBE, PAINTED  
ACCESS OPENING AND COVER  
WELD ALL AROUND, GROUND SMOOTH, AND PAINT  
STEEL PLATE PAINTED  
UNDERSLAB CONDUIT, REFER TO ELECTRICAL

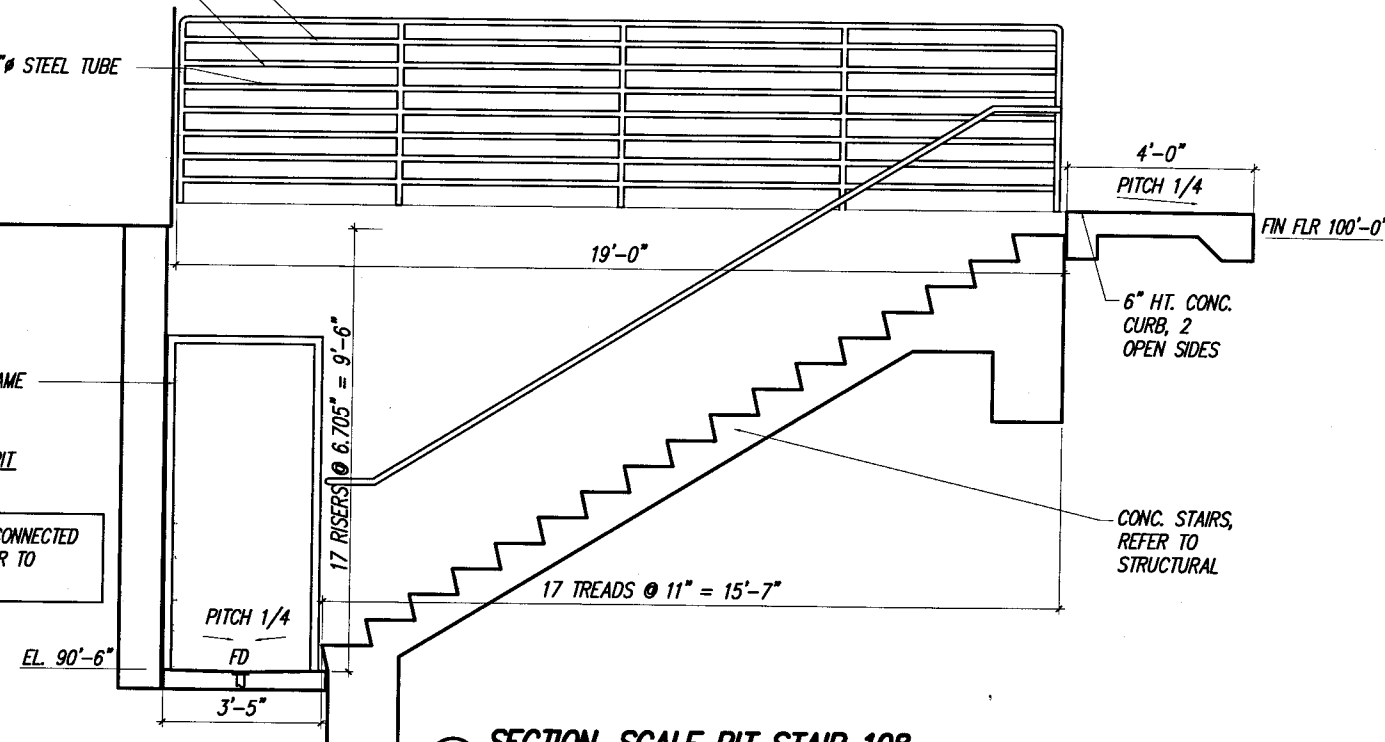
1-1/2" DIA. STL. TUBE GUARDRAIL, 42" HT.  
INTERMEDIATE RAILS OF MARINE CABLE SPACED 5" O.C.V. MAX.

INTERMEDIATE RAILS OF 1 1/2" STEEL TUBE SPACED 6" O.C.

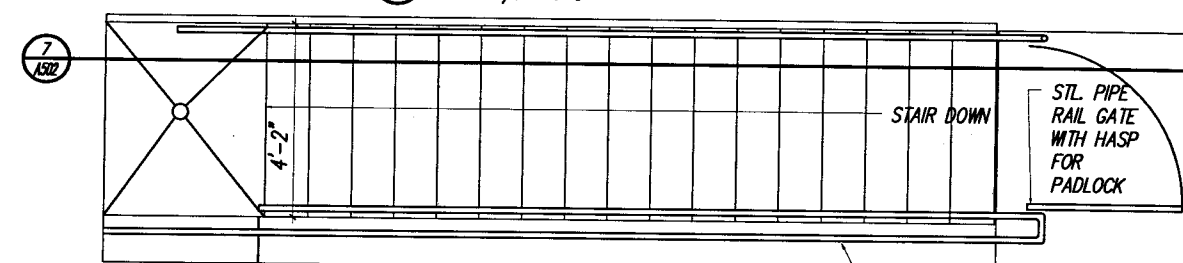
H.M. DOOR AND FRAME

TUNNEL TO SCALE PIT

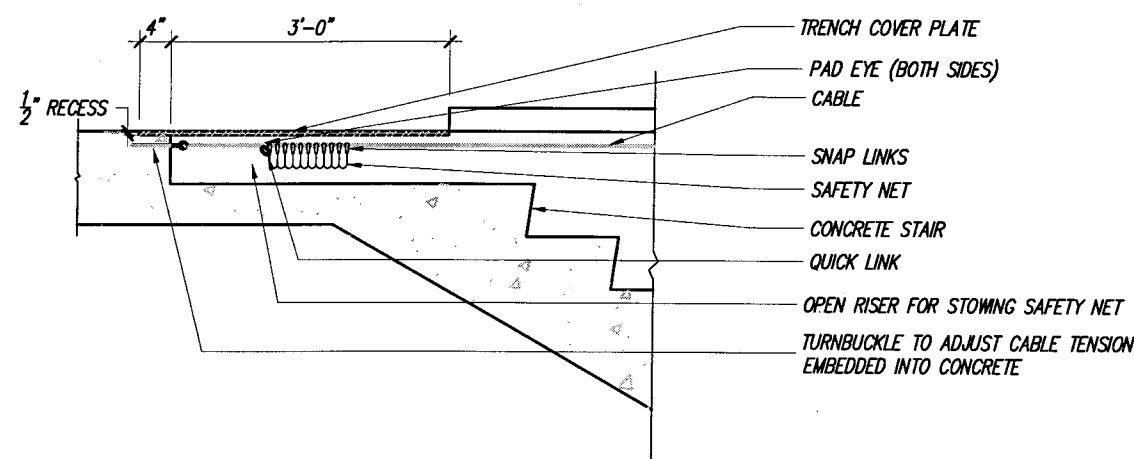
FD = FLOOR DRAINS CONNECTED TO SUMP PUMP- REFER TO PLUMBING



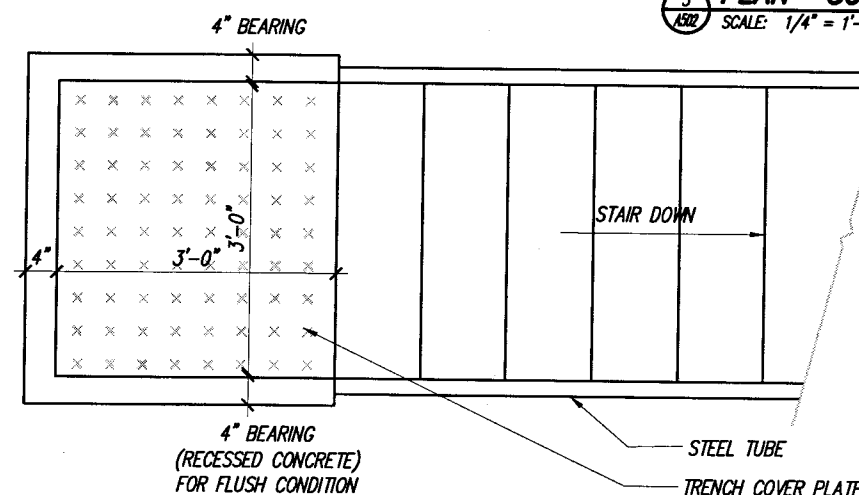
7 SECTION-SCALE PIT STAIR 108  
SCALE: 1/4" = 1'-0"



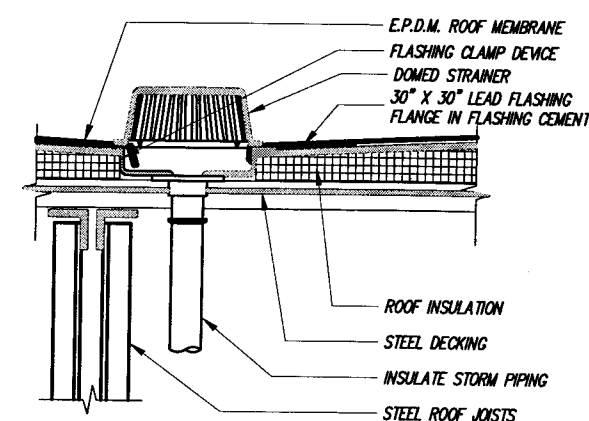
3 PLAN- SCALE PIT STAIR 108  
SCALE: 1/4" = 1'-0"



4 SECTION- PIT COVER  
SCALE: 1/2" = 1'-0"



5 PLAN VIEW- SOUTH PIT PLANK  
SCALE: 1/2" = 1'-0"



6 ROOF DRAIN SECTION  
SCALE: 1/2" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

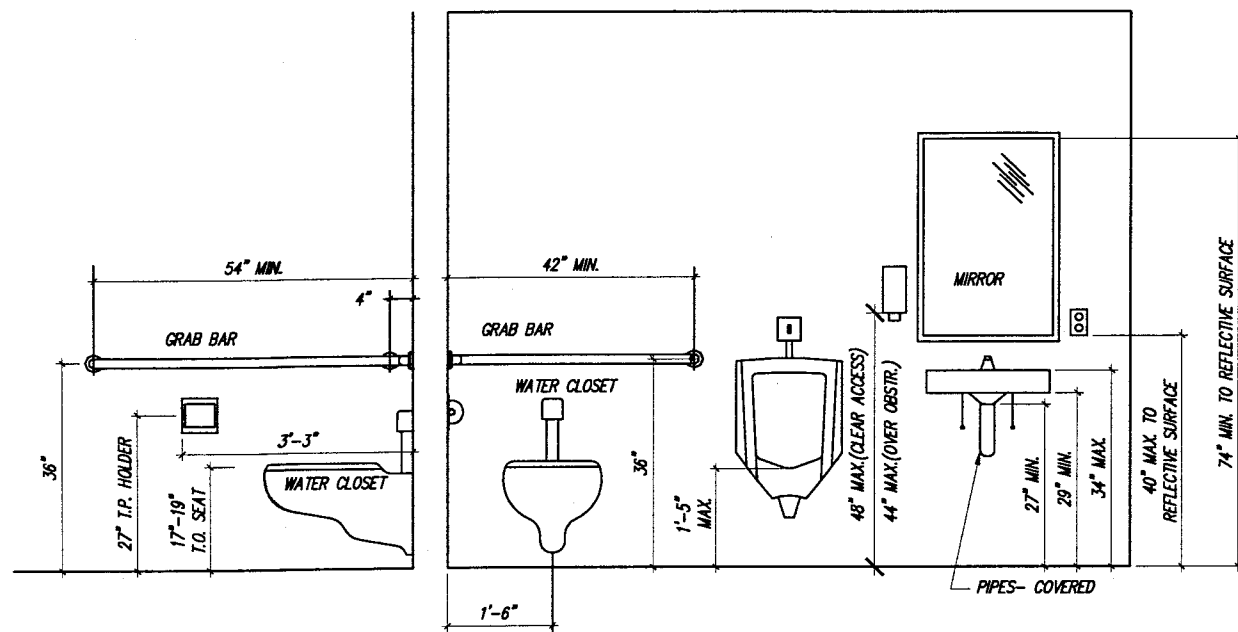
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

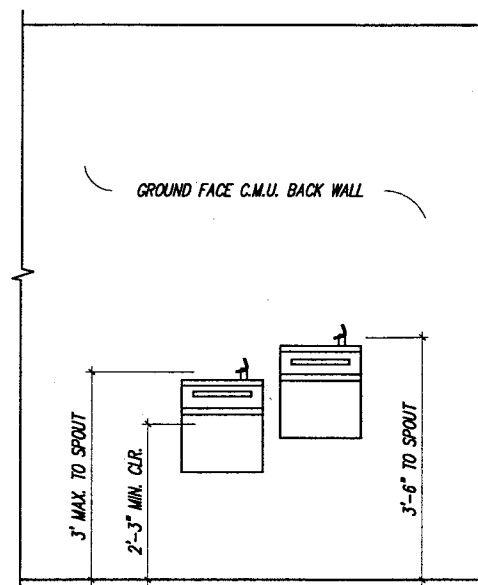
SHEET NO: 147 OF

DWG. A502

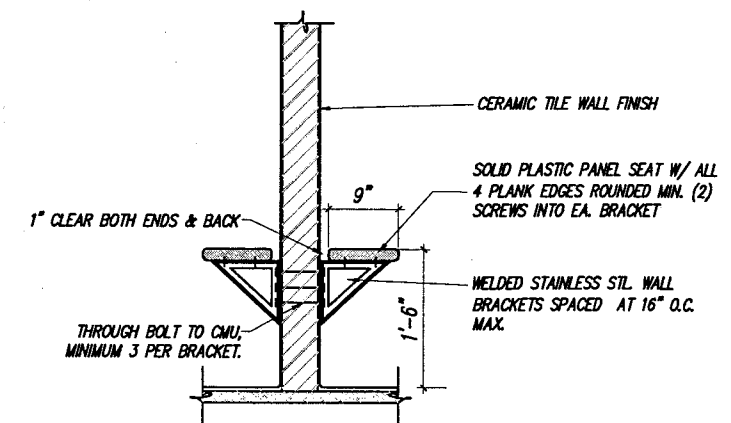


1 **TYPICAL TOILET ACCESSORY MOUNTING DIMENSIONS**  
SCALE: 3/8" = 1'-0"

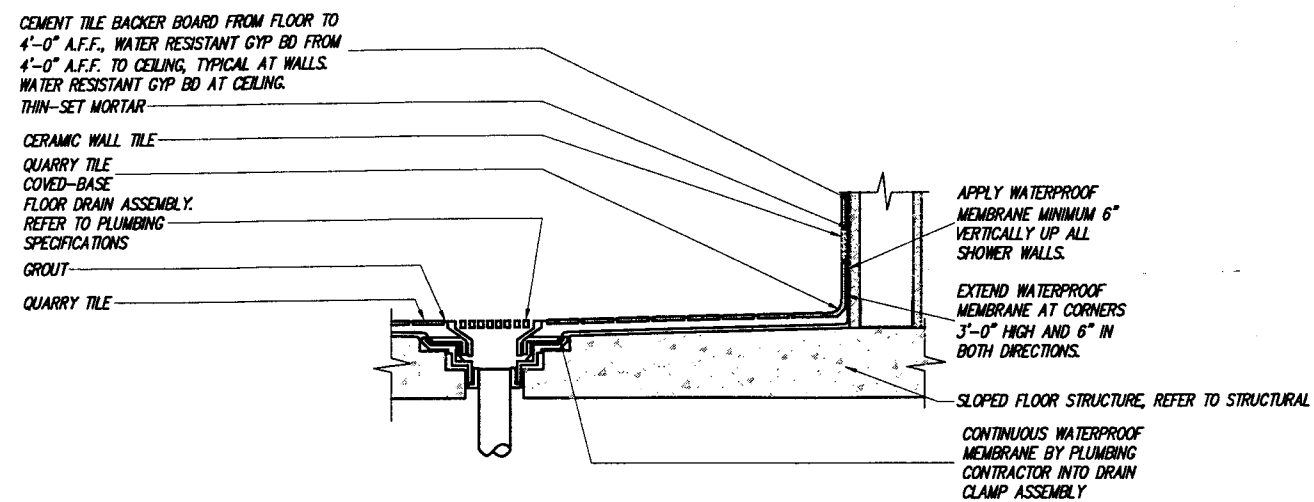
NOTE: REFER TO INTERIOR ELEVATIONS FOR ACCESSORY LOCATIONS



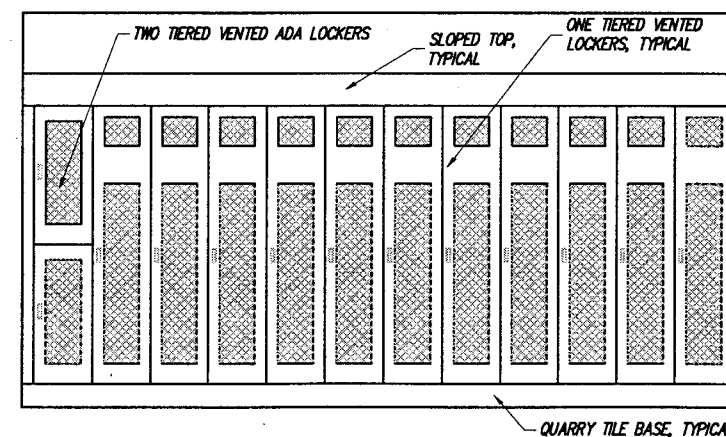
2 **ELEVATION - ELECTRIC WATER COOLER**  
SCALE: 3/8" = 1'-0"



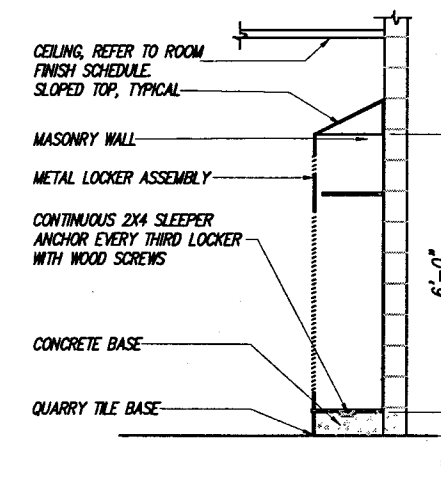
3 **SECTION - WALL MOUNTED BENCH AT SHOWER**  
SCALE: 1/2" = 1'-0"



4 **SECTION - SHOWER PAN**  
SCALE: 1/2" = 1'-0"



5 **ELEVATION - LOCKERS**  
SCALE: 1/8" = 1'-0"



6 **SECTION - LOCKER**  
SCALE: 1/8" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

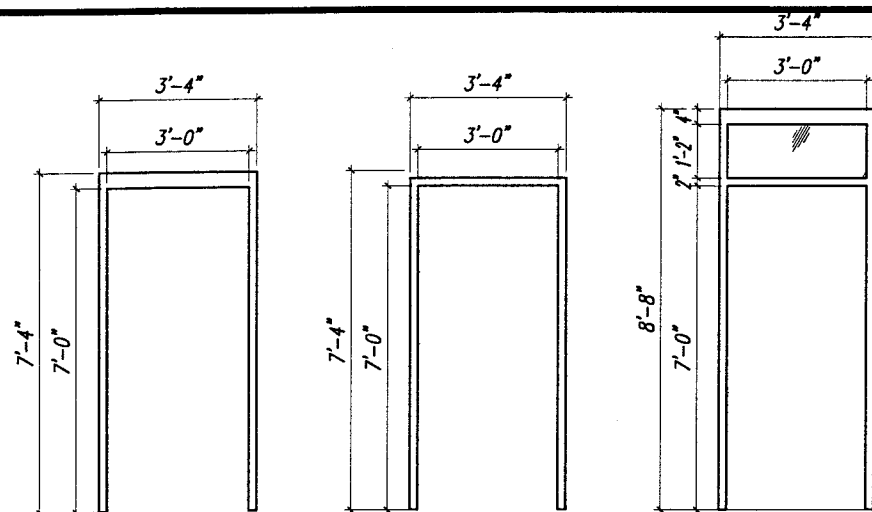
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

SHEET NO: 148 OF

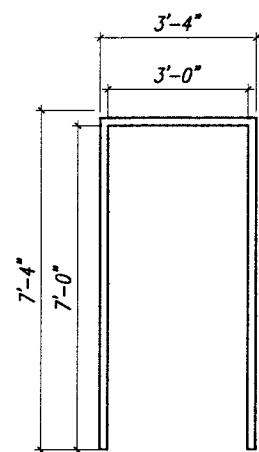
DWG. A503



**TYPE A**

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

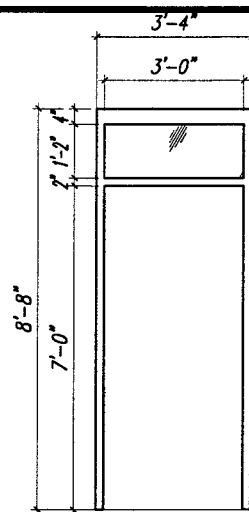
HOLLOW METAL DOOR  
FRAME FOR MASONRY (TYP.)



**TYPE A1**

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

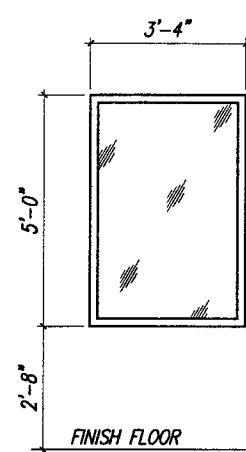
HOLLOW METAL DOOR  
FRAME FOR GYP. BD. (TYP.)



**TYPE A2**

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

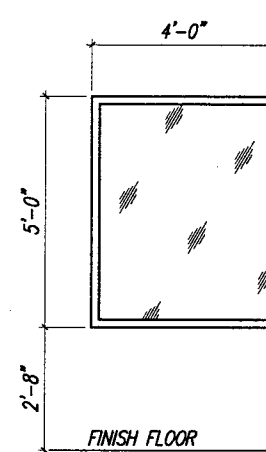
HOLLOW METAL DOOR  
FRAME FOR GYP. BD. (TYP.)



**TYPE B**

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

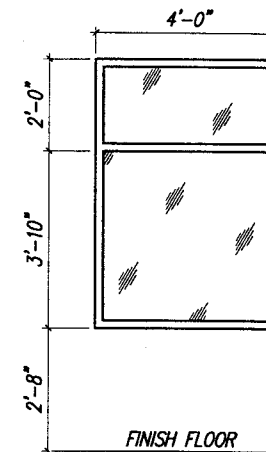
HOLLOW METAL FRAME  
BORROWED LITE ASSEMBLY,  
SUBSTRATE VARIES



**TYPE C**

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

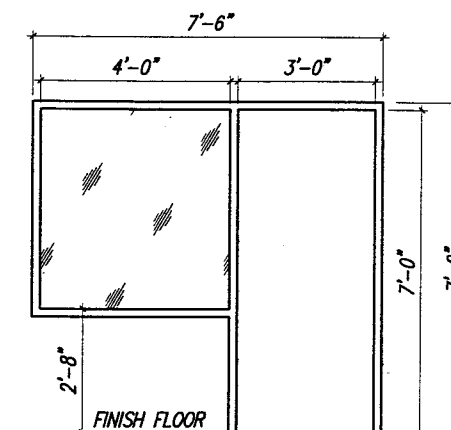
HOLLOW METAL FRAME  
BORROWED LITE ASSEMBLY,  
SUBSTRATE VARIES



**TYPE D**

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

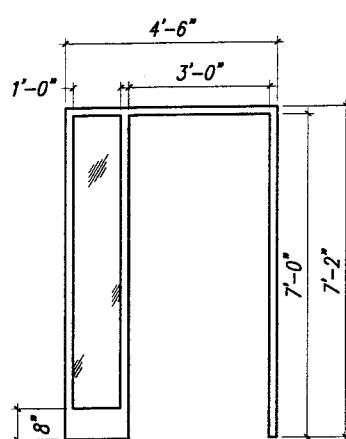
HOLLOW METAL FRAME  
BORROWED LITE ASSEMBLY,  
GYP. BD. FRAME



**TYPE E**

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

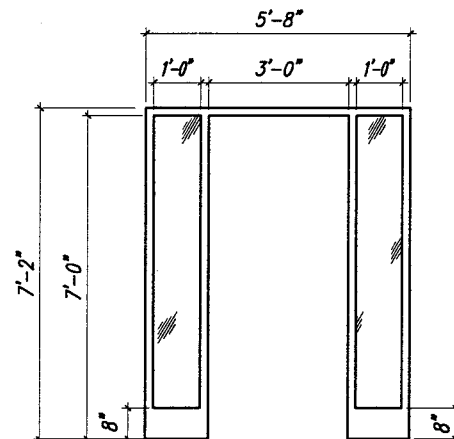
HOLLOW METAL FRAME  
DOOR ASSEMBLY  
SUBSTRATE VARIES



**TYPE F**

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

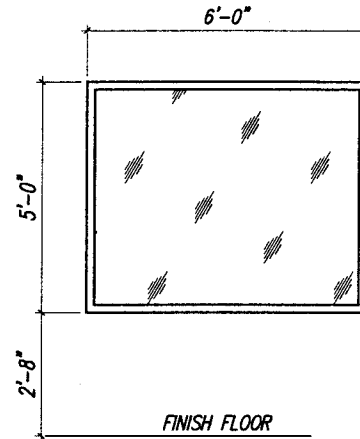
HOLLOW METAL DOOR  
FRAME WITH SIDELIGHT,  
SUBSTRATE VARIES



**TYPE G**

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

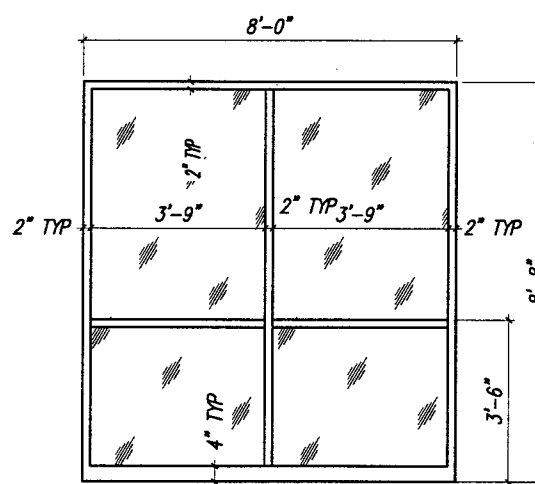
HOLLOW METAL FRAME  
BORROWED LITE ASSEMBLY,  
SUBSTRATE VARIES



**TYPE H**

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

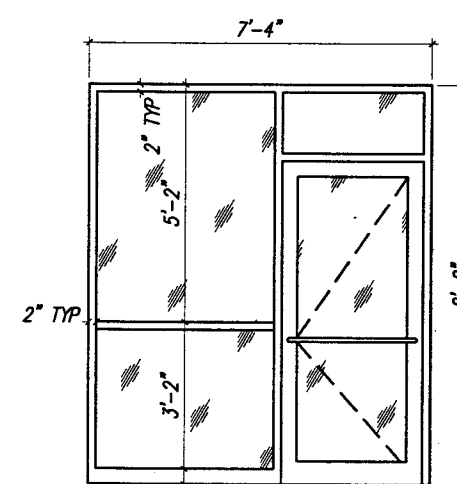
HOLLOW METAL FRAME  
BORROWED LITE ASSEMBLY,  
SUBSTRATE VARIES



**TYPE A** - GLASS TYPE 3, REFER TO  
SPEC. SECTION 08810.

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

ALUMINUM STORE FRONT  
DOOR FRAME WITH  
SIDELIGHT ASSEMBLY,  
SUBSTRATE VARIES



**TYPE B** - GLASS TYPE 3, REFER TO  
SPEC. SECTION 08810.

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

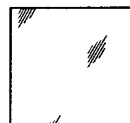
ALUMINUM STORE FRONT  
DOOR FRAME WITH  
SIDELIGHT ASSEMBLY,  
SUBSTRATE VARIES

**TYPE C** - GLASS TYPE 1, REFER  
TO SPEC. SECTION 08810.

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

ALUMINUM STORE FRONT,  
SIMILAR, WITH DOOR HINGED  
ON OPPOSITE SIDE.

**1 H.M. FRAME TYPES**



INDICATES GLAZING

NOTE: GLASS TYPE 1. REFER TO  
SPECIFICATION SECTION 08810.

**2 ALUMINUM STORE FRONT FRAME TYPES**

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

**DETAILS**

SAFETY & WEIGHT FACILITY NO. 21

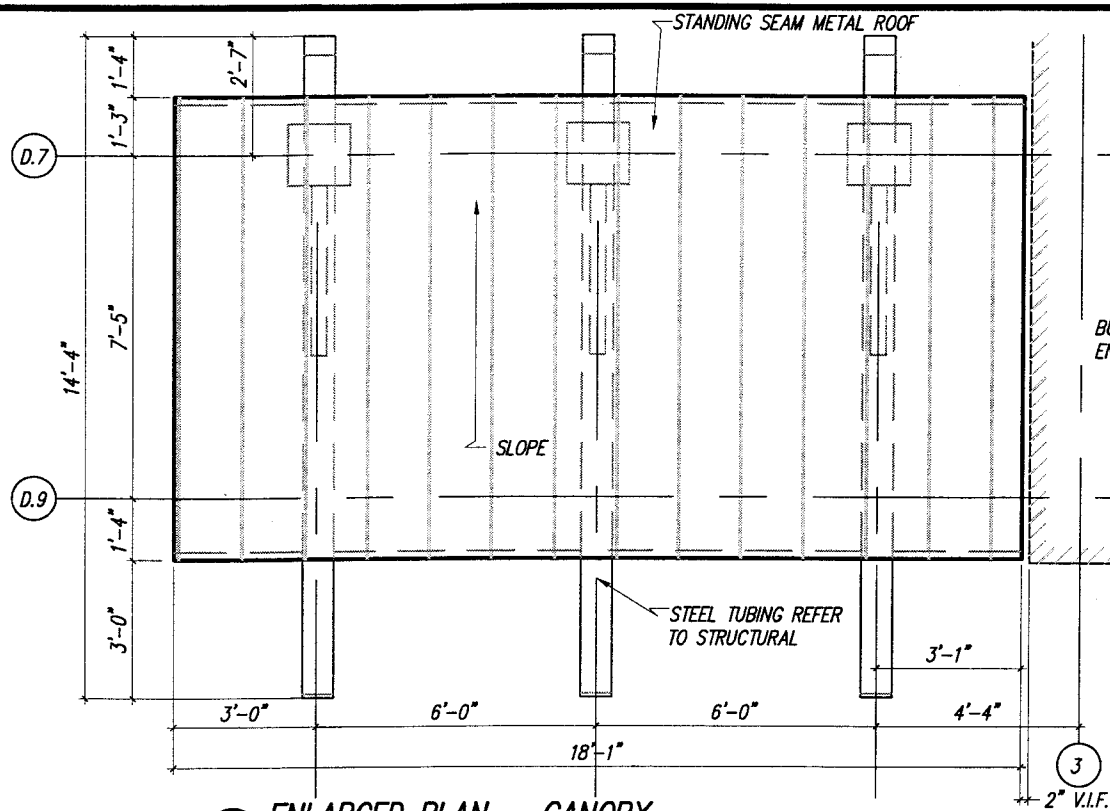
SCALE, FEET

DATE: 1/1/02

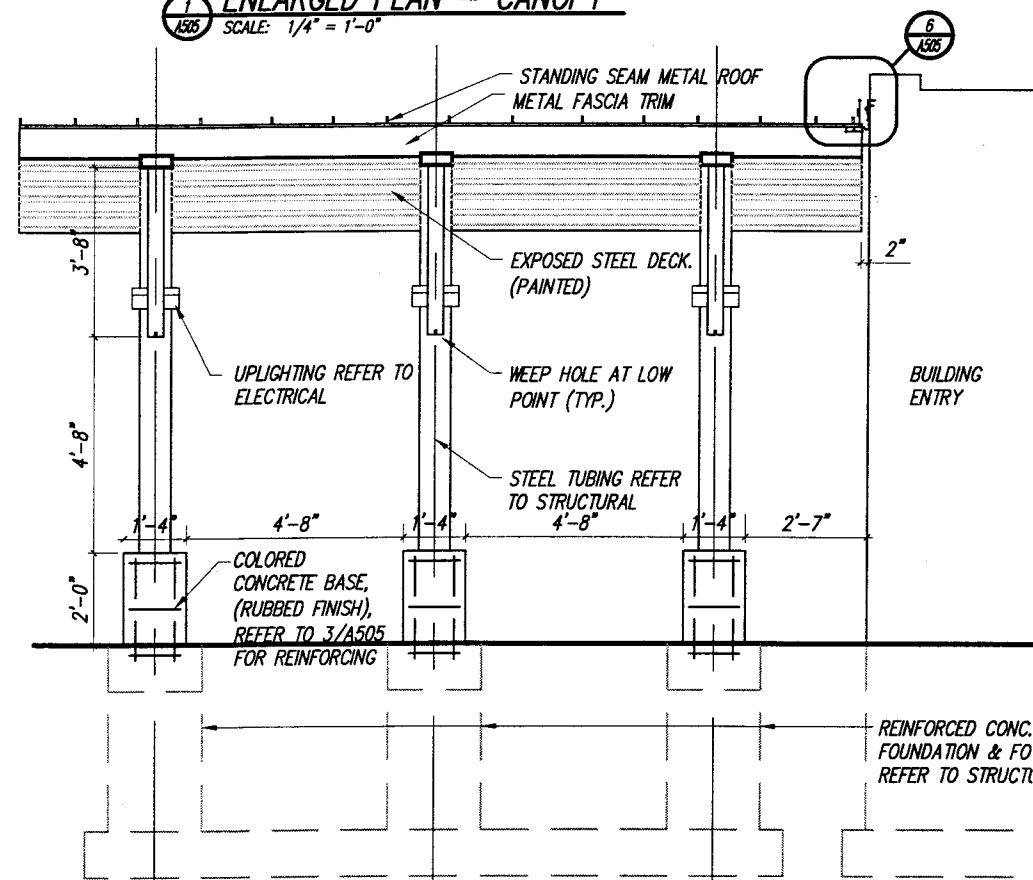
SHEET NO: 149 OF

DWG. A504

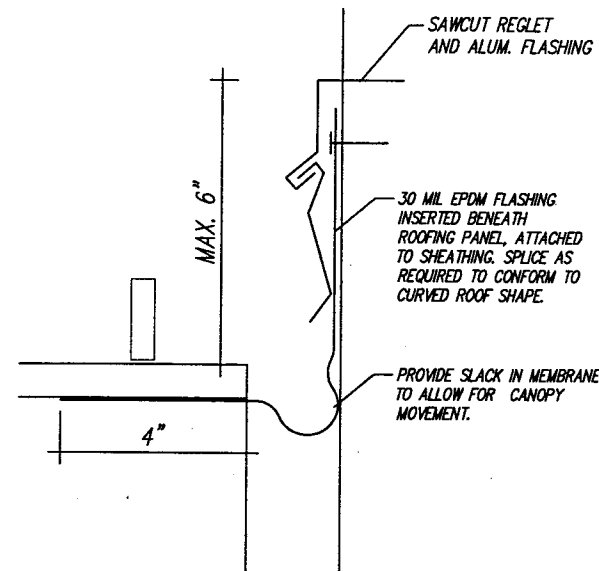




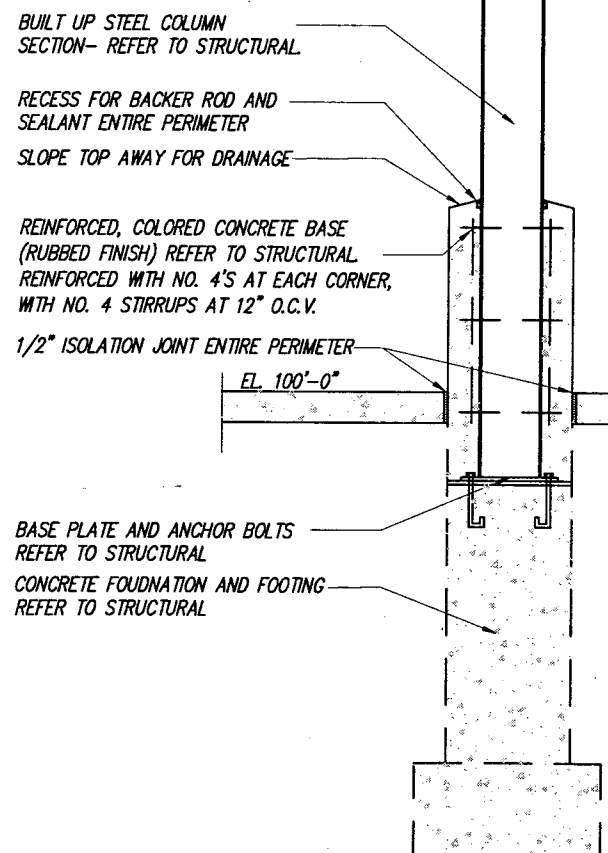
1 ENLARGED PLAN - CANOPY  
SCALE: 1/4" = 1'-0"



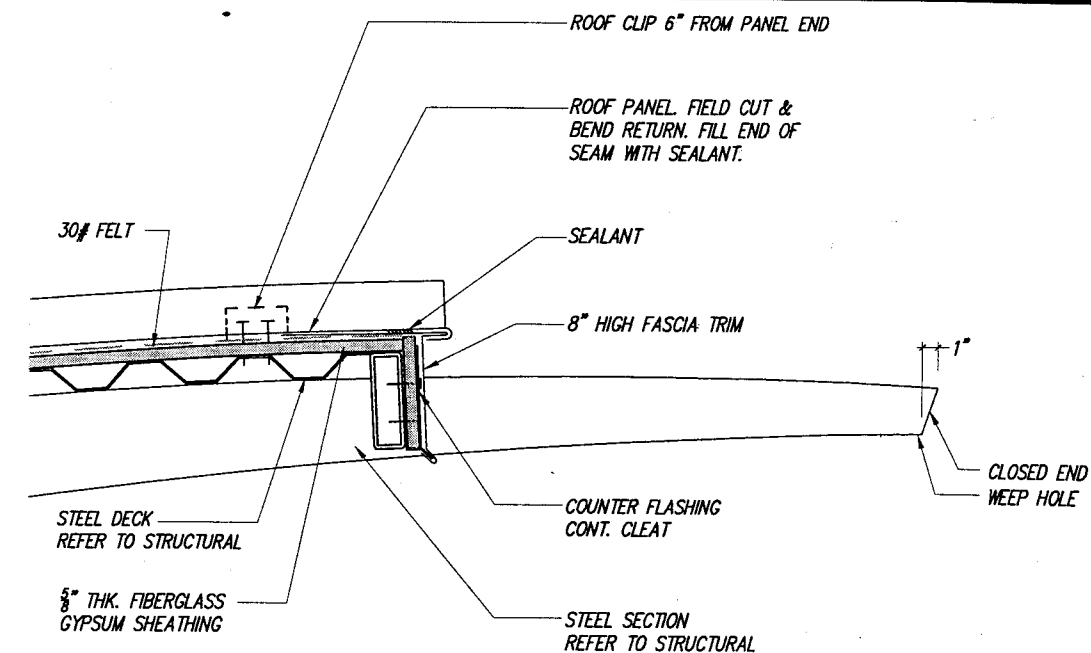
2 ENLARGED ELEVATION - CANOPY  
SCALE: 1/4" = 1'-0"



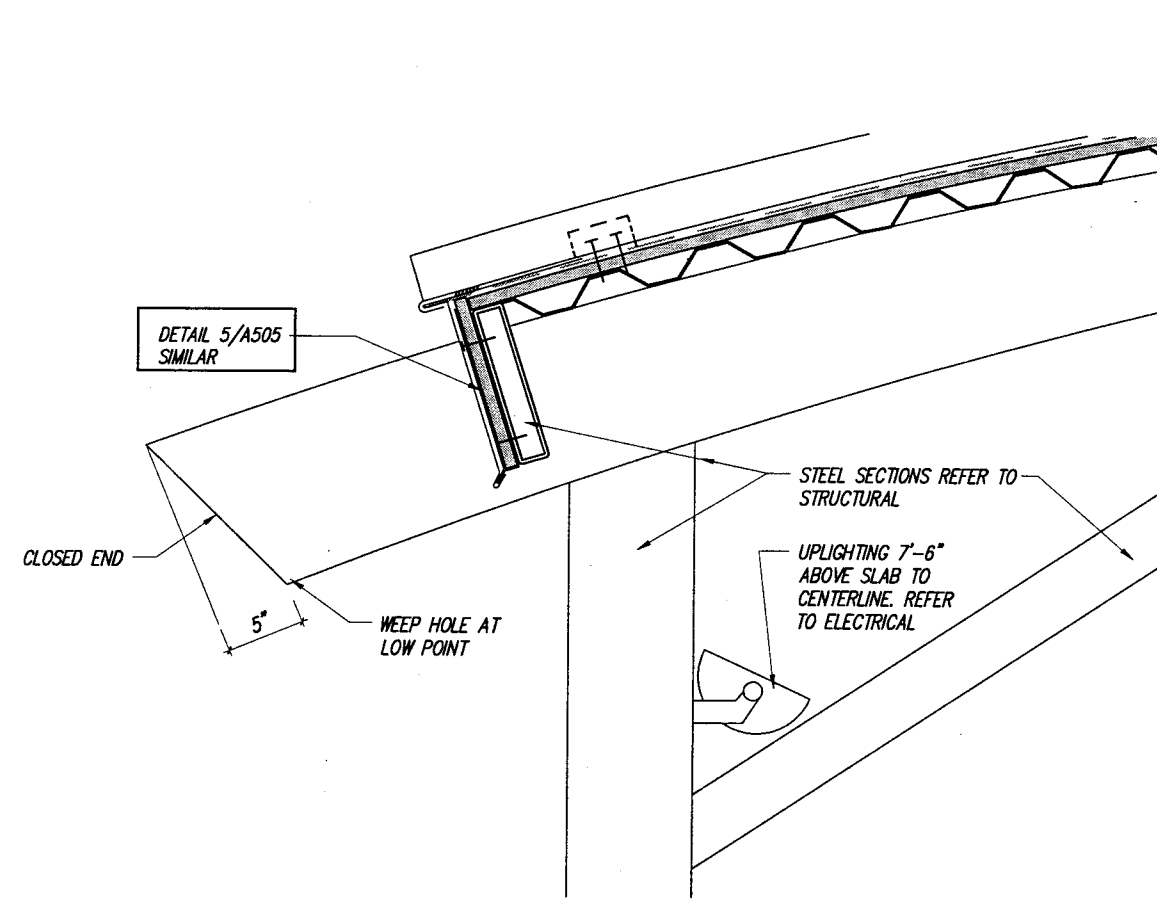
6 DETAIL - FLASHING AT BUILDING  
SCALE: 3" = 1'-0"



3 SECTION - CANOPY BASE  
SCALE: 1/2" = 1'-0"



5 SECTION - CANOPY ROOF  
SCALE: 1" = 1'-0"



4 SECTION - CANOPY ROOF  
SCALE: 1" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

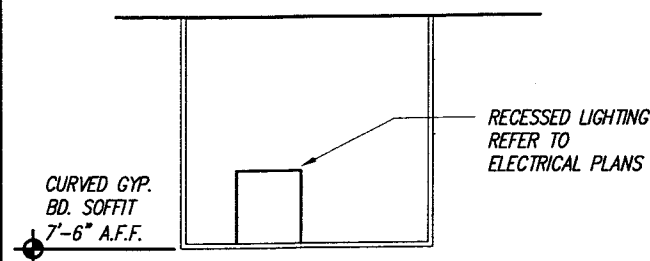
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

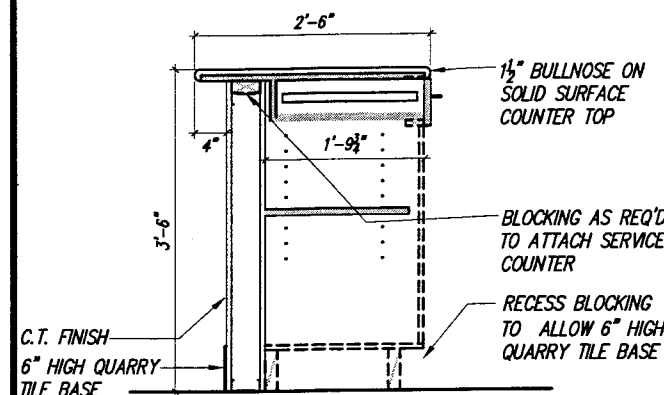
SHEET NO: 150 OF

DWG. A505

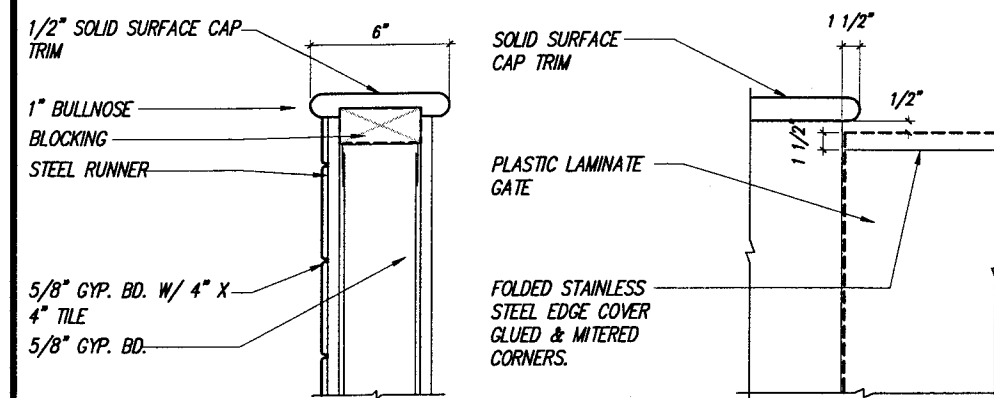


CUSTOMER SERVICE 107

OFFICE 110

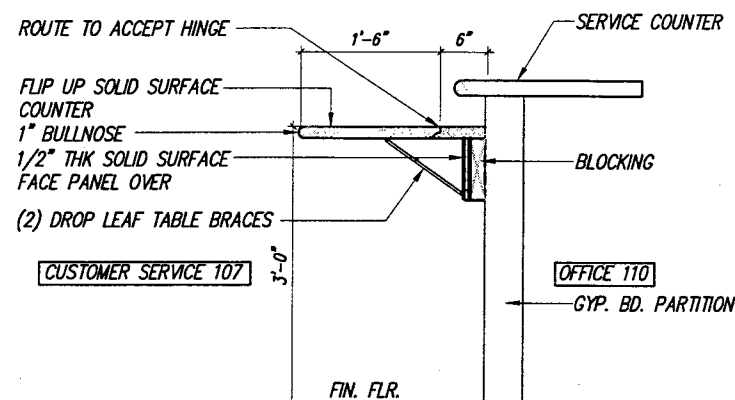


SECTION- SERVICE COUNTER  
SCALE: 1/4" = 1'-0"

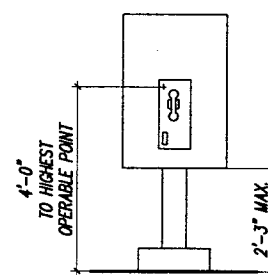


SECTION- CAP TRIM  
SCALE: 1 1/2" = 1'-0"

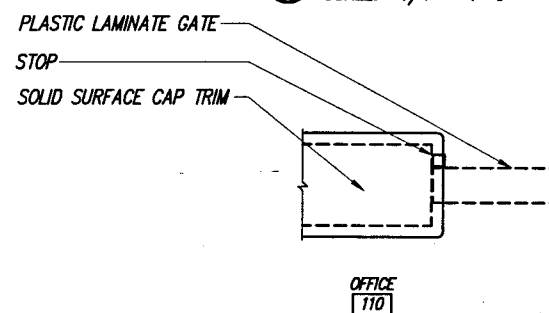
ELEVATION- CAP TRIM TO GATE  
SCALE: 1 1/2" = 1'-0"



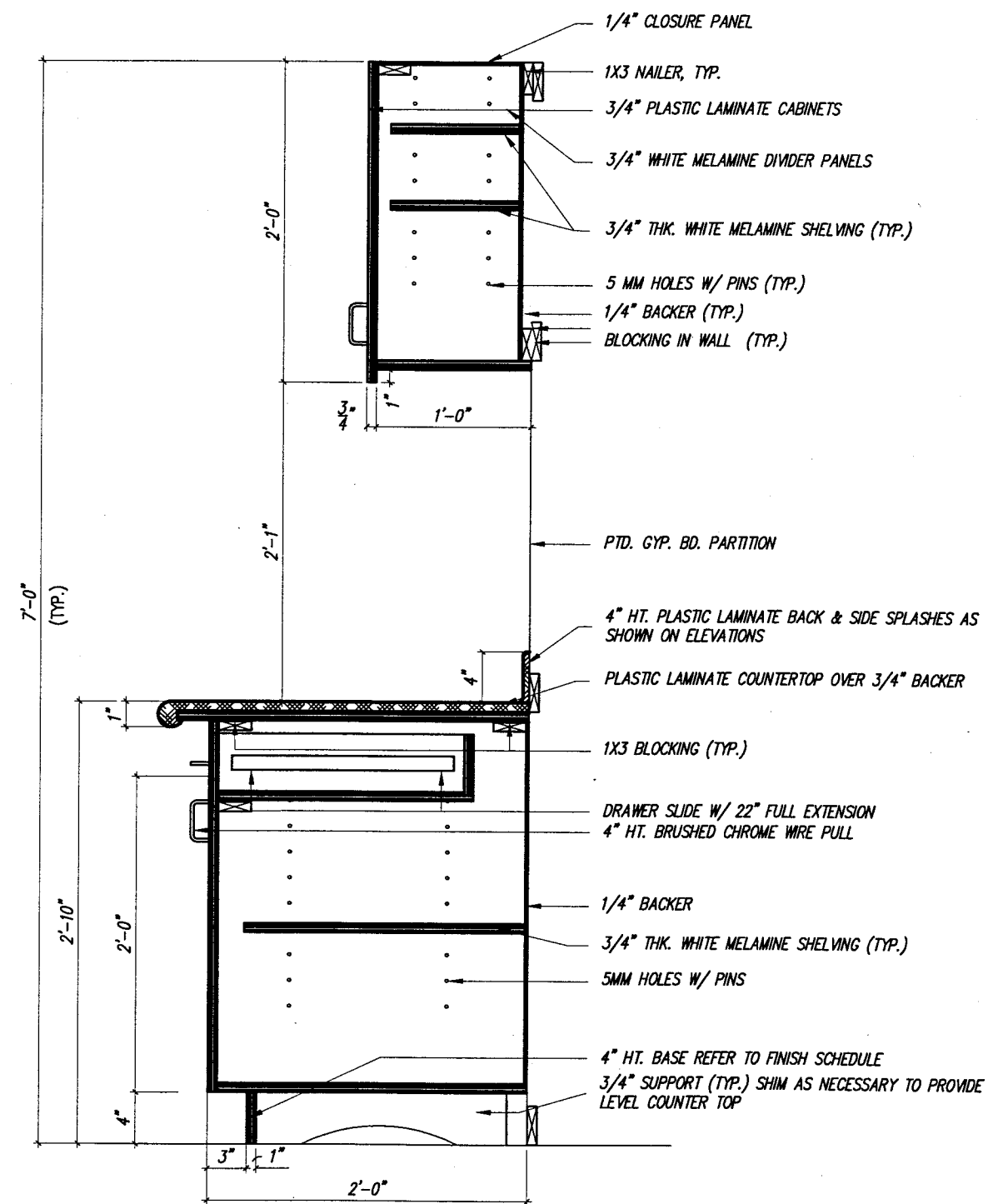
SECTION ACCESSIBLE COUNTER  
SCALE: 1/2" = 1'-0"



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



PLAN-GATE STOP  
SCALE: 1 1/2" = 1'-0"



SECTION- CABINET (TYP)  
SCALE: 1" = 1'-0"

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DETAILS

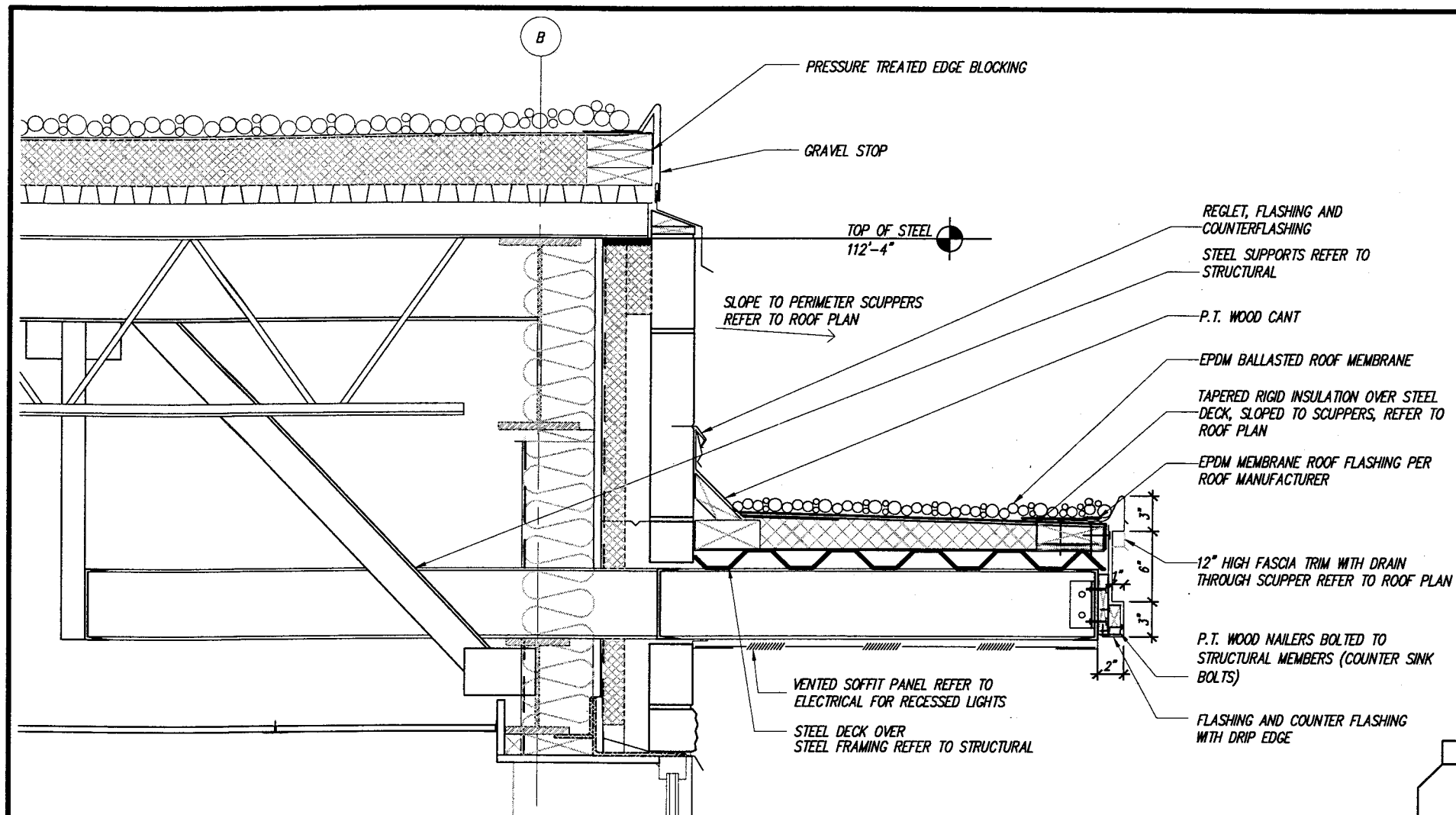
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

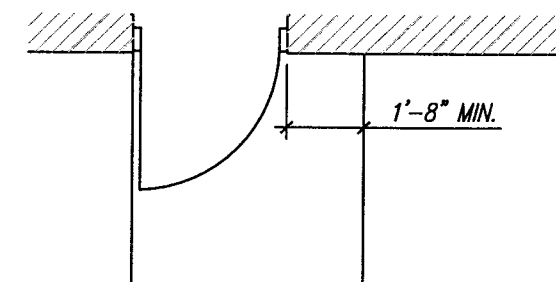
DATE: 1/1/02

SHEET NO: 151 OF

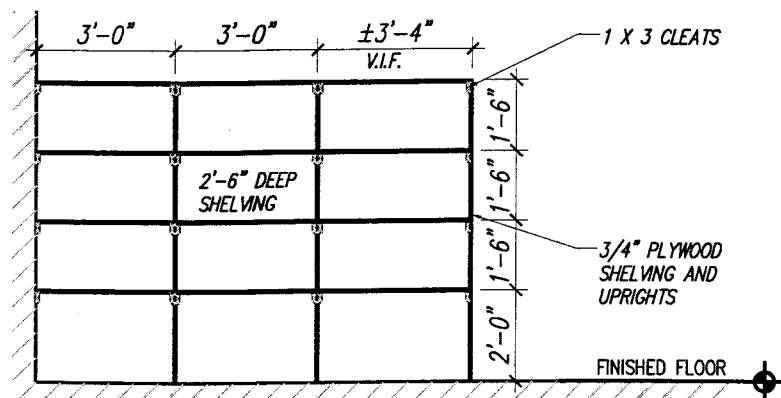
DWG. A506



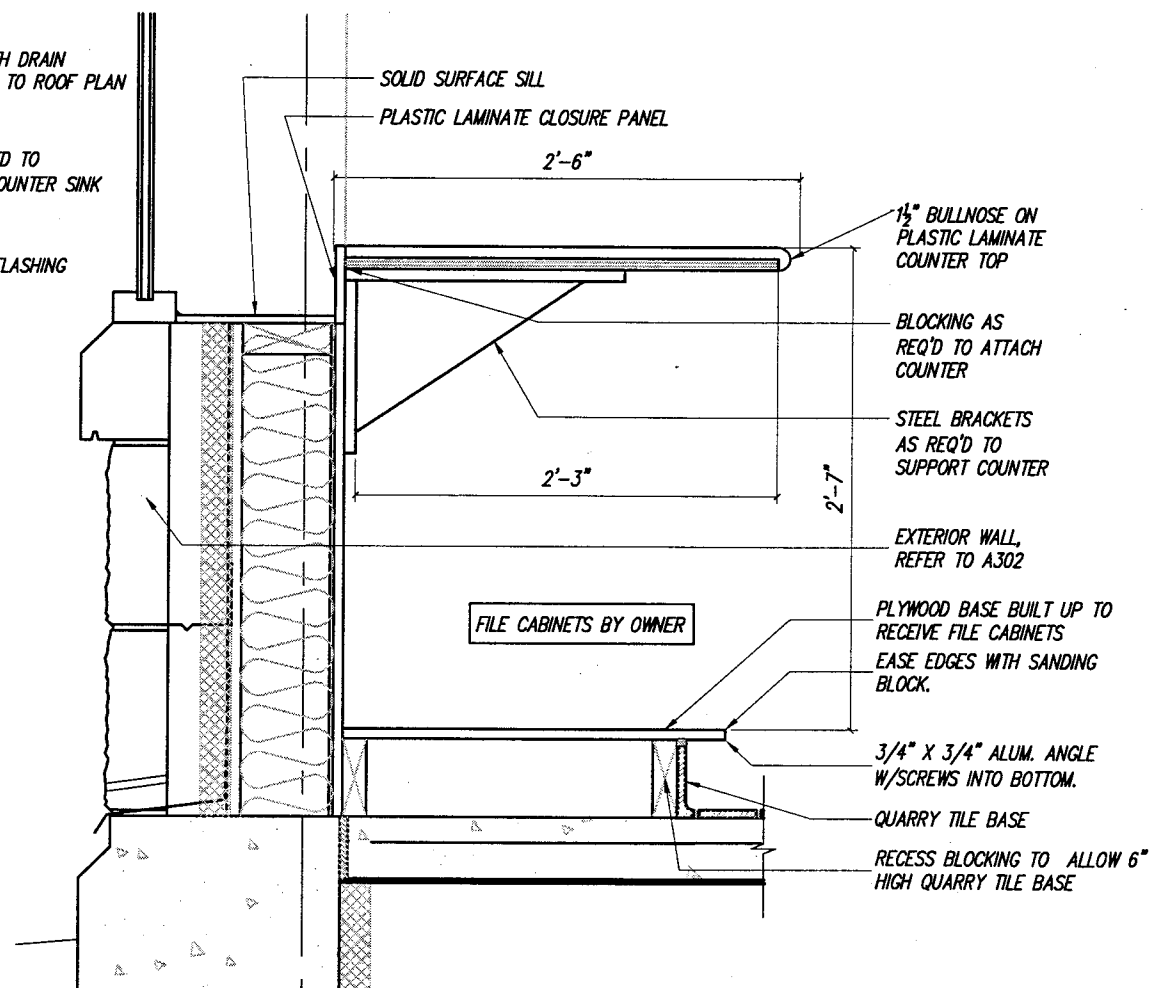
4 PLAN - CLEARANCE AT CONC. STOOP (TYP.)  
SCALE: 1/4" = 1'-0"



1 SECTION - OBSERVATION CANOPY  
SCALE: 1" = 1'-0"



2 SHELVING- CUSTODIAL 105  
SCALE: 1/4" = 1'-0"



3 SECTION- COUNTER AT OFFICE 109  
SCALE: 1" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

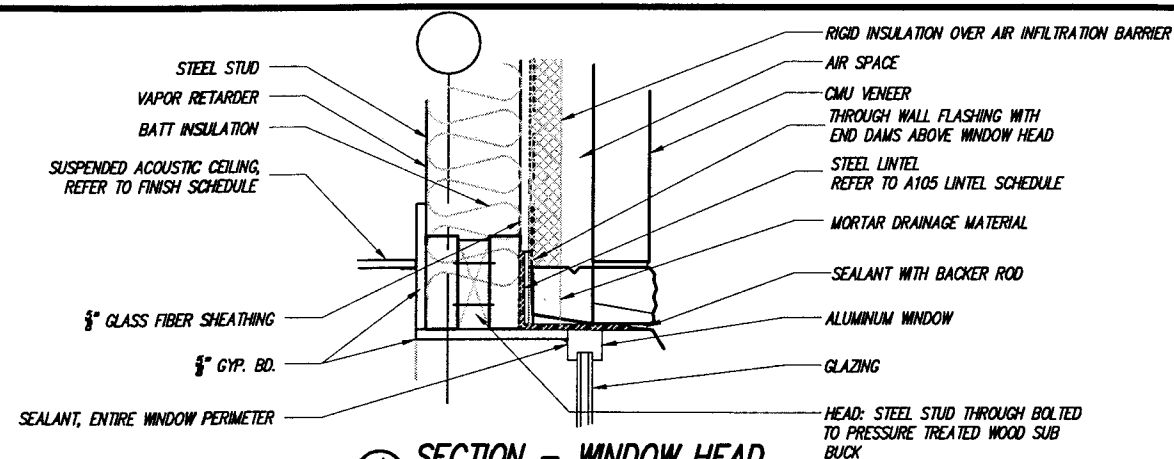
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

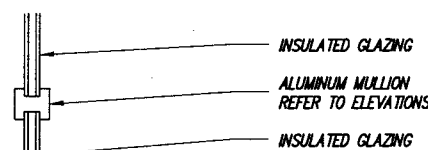
DATE: 1/1/02

SHEET NO: 152 OF

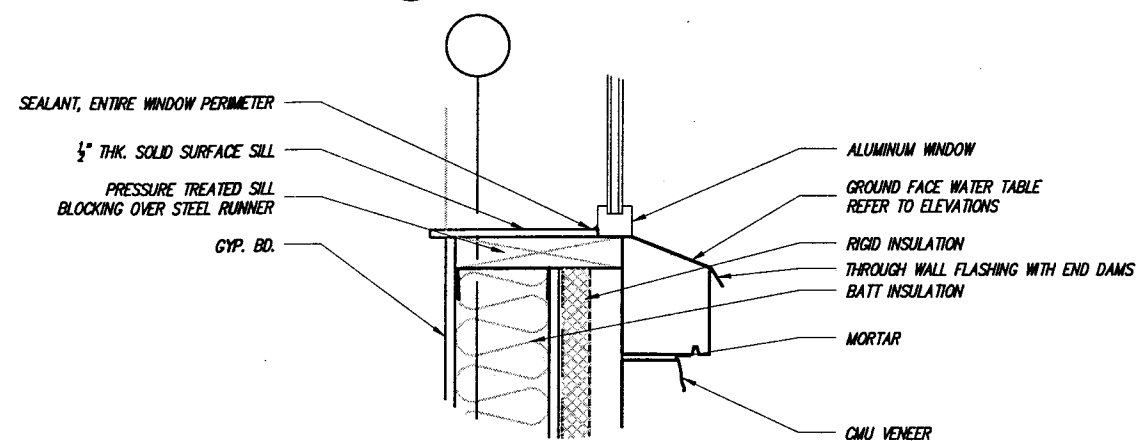
DWG. A507



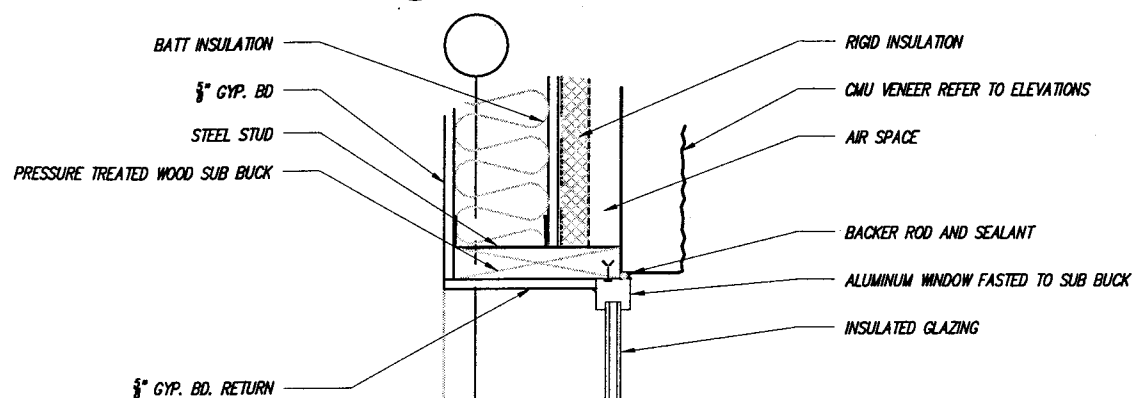
**SECTION - WINDOW HEAD**  
SCALE: 1" = 1'-0"



**SECTION - WINDOW MULLION**  
SCALE: 1" = 1'-0"

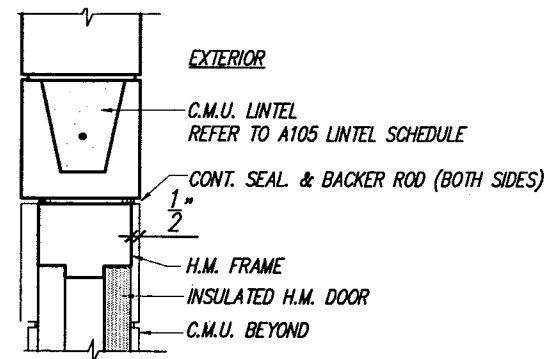


**SECTION - WINDOW SILL**  
SCALE: 1" = 1'-0"

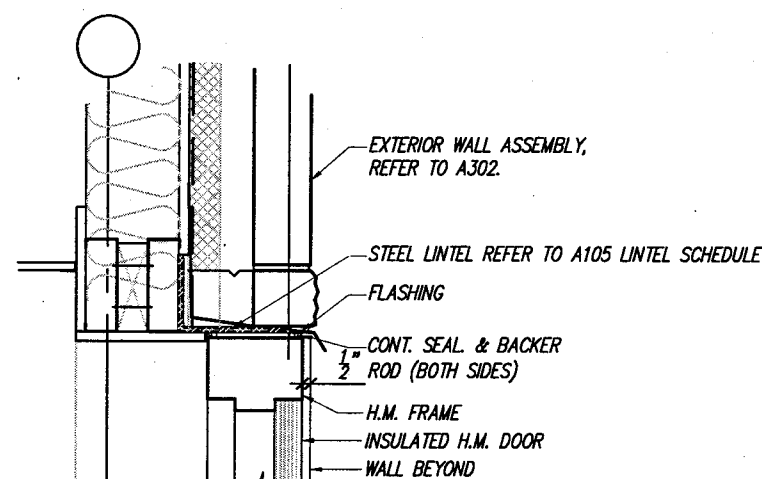


**SECTION - WINDOW JAMB**  
SCALE: 1" = 1'-0"

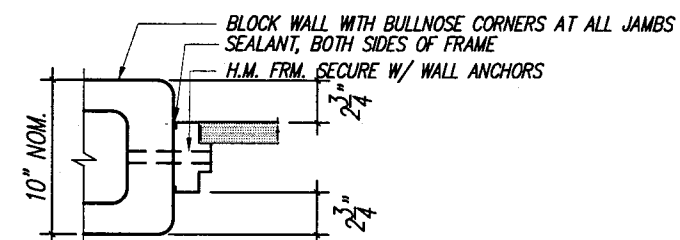
INTERIOR



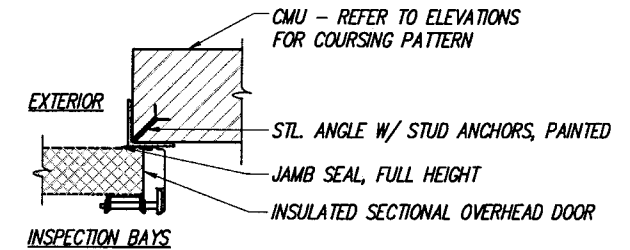
**DETAIL - EXTERIOR DOOR HEAD (INSPECTION)**  
SCALE: 1" = 1'-0"



**DETAIL - EXTERIOR DOOR HEAD (SCALE)**  
SCALE: 1" = 1'-0"

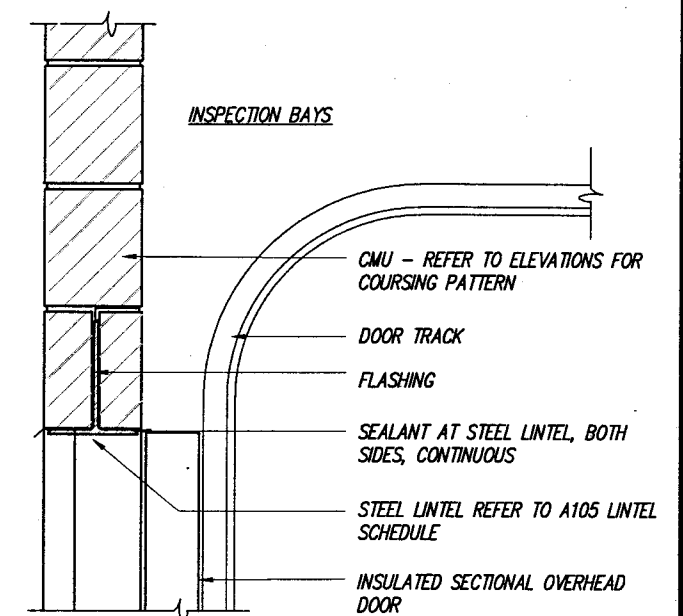


**DETAIL - INTERIOR DOOR JAMB (TYP.)**  
SCALE: 1" = 1'-0"



**DETAIL - JAMB @ O.H. DOOR**  
SCALE: 1" = 1'-0"

EXTERIOR



**DETAIL - HEAD AT OVERHEAD DOOR**  
SCALE: 1" = 1'-0"

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

SAFETY & WEIGHT FACILITY NO. 21

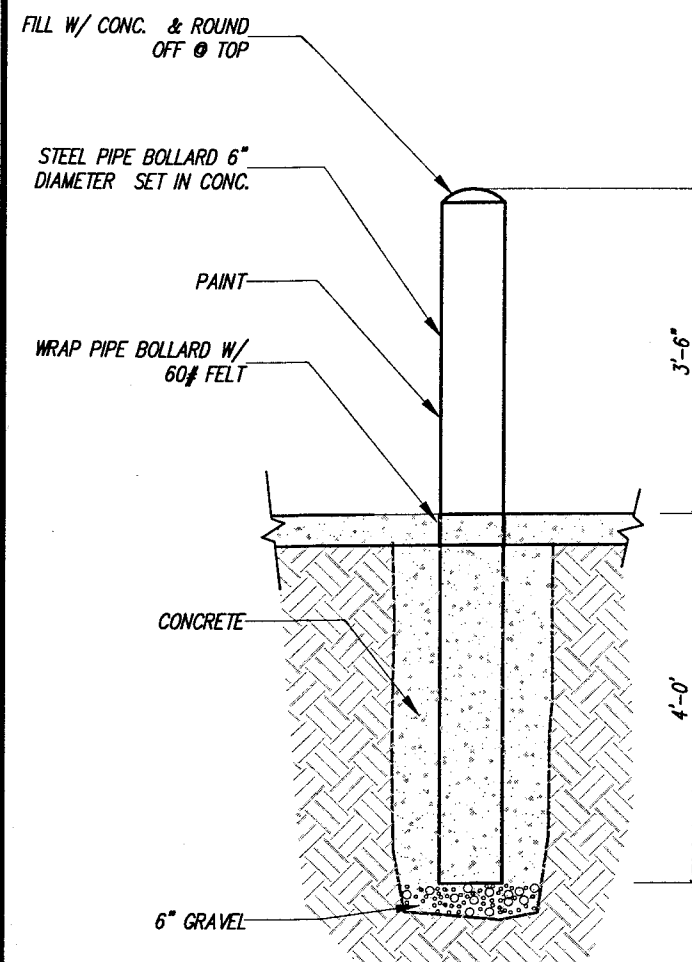
SCALE, FEET



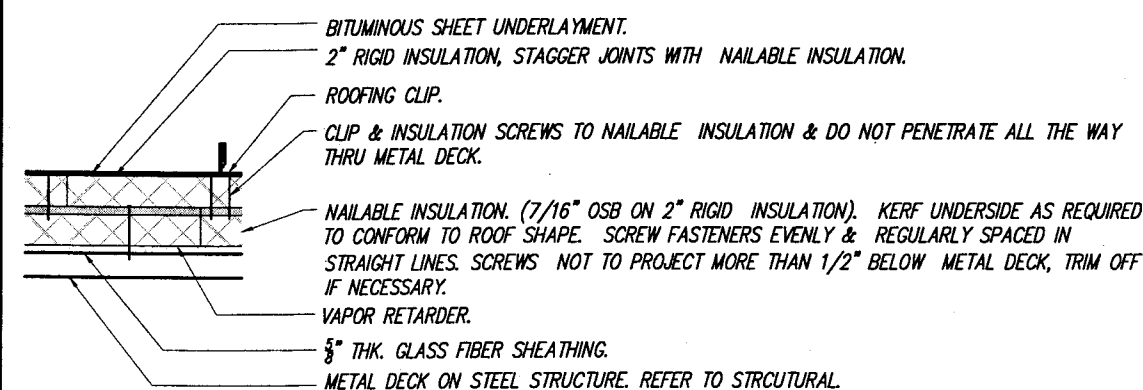
DATE: 1/1/02

SHEET NO: 153 OF

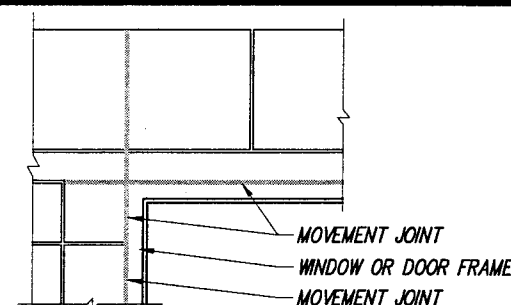
DWG. A508



1 SECTION-BOLLARD  
A509 SCALE: 1/2" = 1'-0"

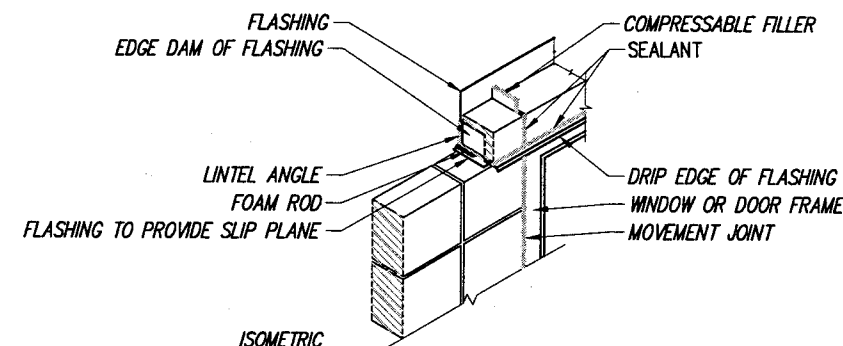


2 SECTION-ROOF  
A509 SCALE: 1/2" = 1'-0"

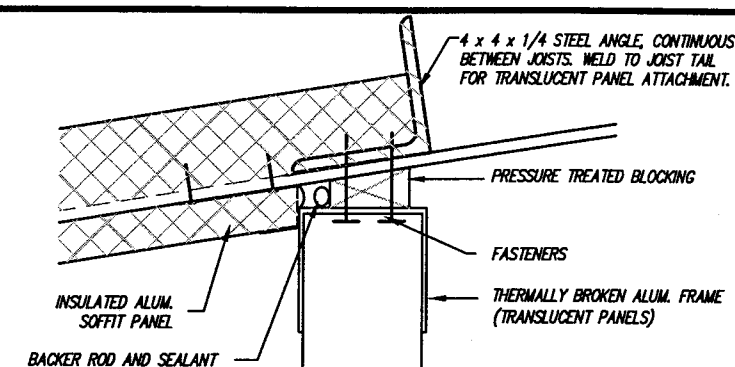


ELEVATION

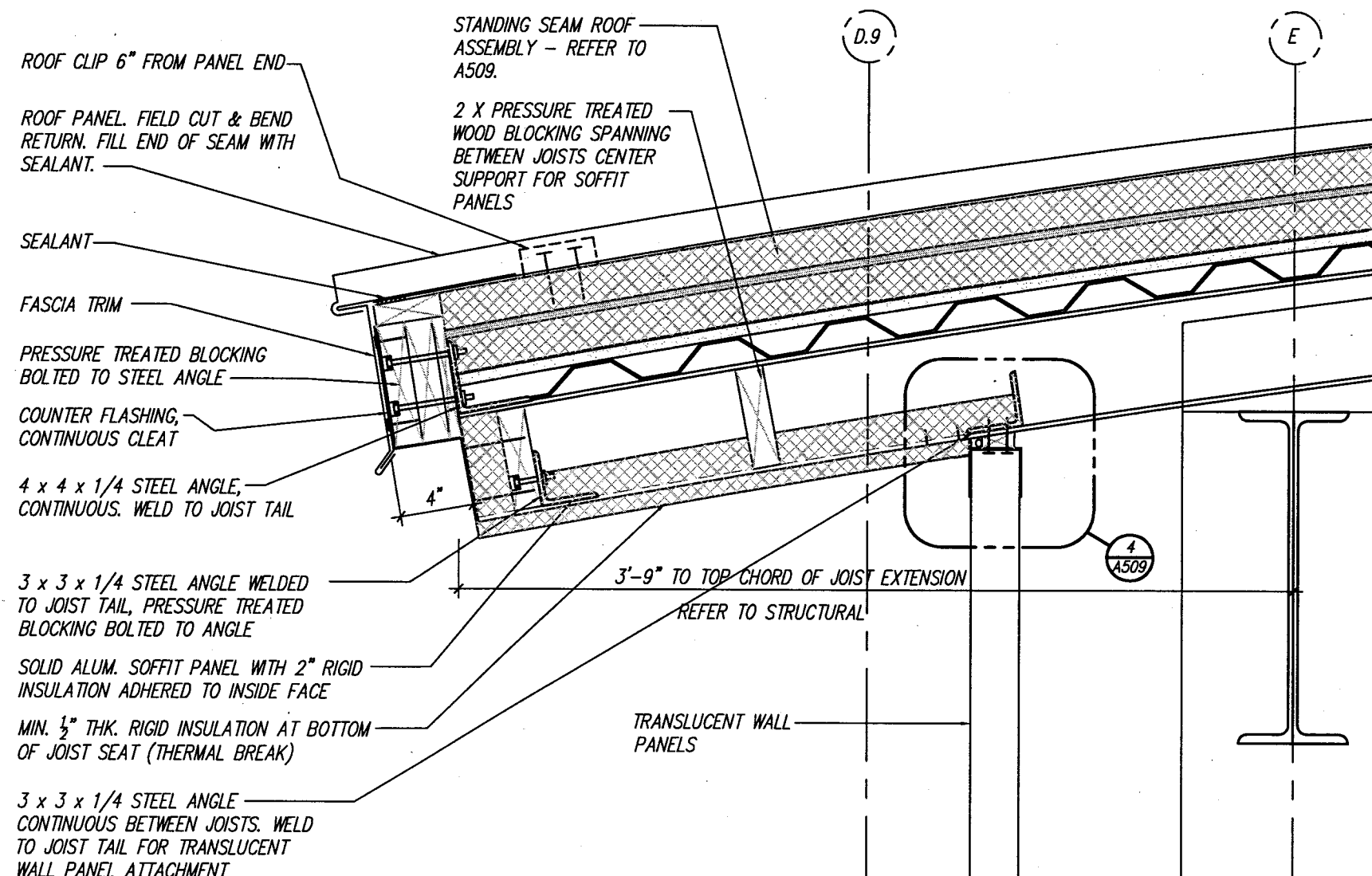
3 MOVEMENT JT. AT OPENING LINTELS  
A509 SCALE: 1/2" = 1'-0"



ISOMETRIC



4 DETAIL-TRANSLUCENT PANEL HEAD  
A509 SCALE: 3" = 1'-0"



5 SECTION - EAVE  
A509 SCALE: 1-1/2" = 1'-0"

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STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

DETAILS

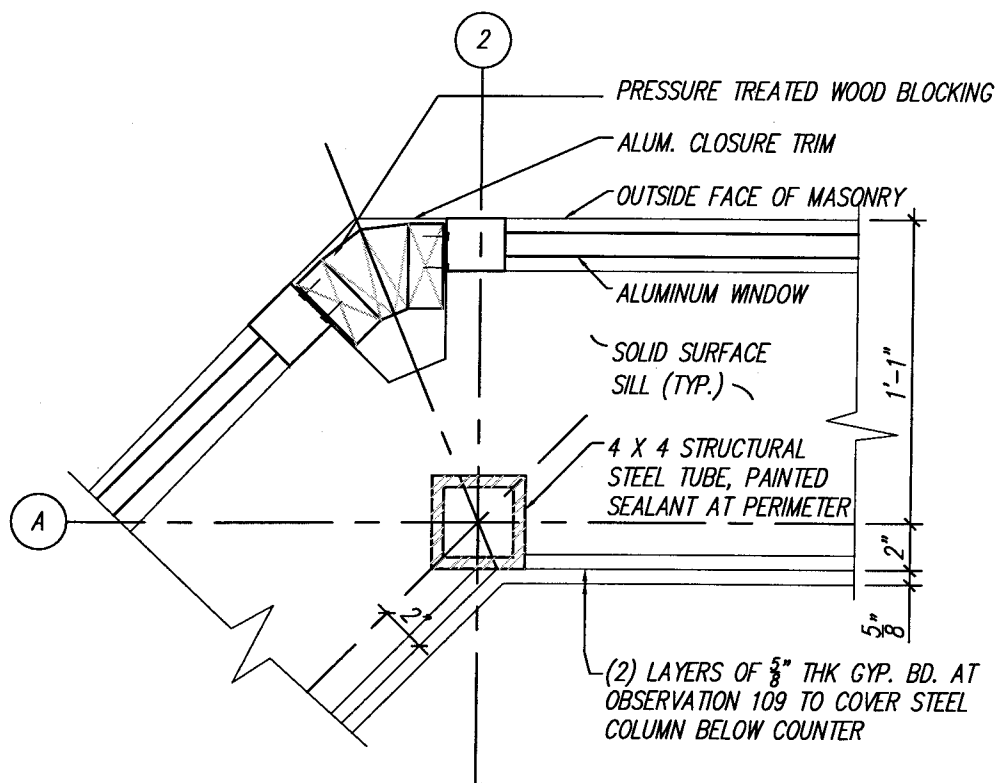
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

SHEET NO: 154 OF

DWG. A509



**1** PLAN - WINDOW DETAIL AT OBS. 109  
**A510** SCALE: 1-1/2" = 1'-0"

Room Finish Schedule																	
Room Number	Room Name	Floor		Base		Walls					Ceiling					Fin. Clg. Ht.	Notes
		Material	Color #	Material	Color #	North Finish	Color #	South Finish	Color #	East Finish	Color #	West Finish	Color #	Material	Finish	Color #	
100	Entry	QT	-	QT	-	NONE	-	NONE	-	NONE	-	NONE	-	SGC	PAINT	-	1,5,7
101	Driver's Room	QT	-	QT	-	NONE	-	NONE	-	NONE	-	NONE	-	SGC	PAINT	-	1,5,7
102	Women	QT	-	QT	-	CT-2	-	CT-2	-	CT-2	-	CT-2	-	SGC	PAINT	-	1,5,7
103	Men	QT	-	QT	-	CT-2	-	CT-2	-	CT-2	-	CT-2	-	SGC	PAINT	-	1,5,7
104	Hall	QT	-	QT	-	NONE	-	NONE	-	NONE	-	NONE	-	SAT	A	-	1,5,7
105	Custodian	SEAL	-	NONE	-	NONE	-	NONE	-	NONE	-	NONE	-	SAT	A	-	1,5,7
106	Interview	QT	-	QT	-	NONE	-	NONE	-	NONE	-	NONE	-	SGC	PAINT	-	1,5,7
107	Customer Service	QT	-	QT	-	NONE	-	NONE	-	NONE	-	NONE	-	SAT	A	-	1,5,7
108	Stair	N-SLIP	-	RC	-	RC	-	RC	-	RC	-	RC	-	-	OPEN	-	2
109	Office	QT	-	QT	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	7
110	Office	QT	-	QT	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	7
111	Office	CPT	-	VWB	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	7
112	Meeting	CPT	-	VWB	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	7
113	Office	CPT	-	VWB	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	7
114	Corridor	QT	-	QT	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	4,5,7
115	Entry	QT	-	QT	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SAT	A	-	1,5
116	Telecom	SEAL	-	NONE	-	NONE	-	NONE	-	NONE	-	NONE	-	SAT	A	-	5
117	Mech. Rm.	SEAL	-	NONE	-	NONE	-	NONE	-	NONE	-	NONE	-	OPEN	PAINT	-	5
118	Hall	QT	-	QT	-	NONE	-	NONE	-	NONE	-	NONE	-	SAT	A	-	4,5
119	Mech.	SEAL	-	VWB	-	NONE	-	NONE	-	NONE	-	NONE	-	OPEN	PAINT	-	VARIES
120	Men	QT	-	QT	-	CT	-	CT	-	CT	-	CT	-	SGC	PAINT	-	7
121	Women	QT	-	QT	-	CT	-	CT	-	CT	-	CT	-	SGC	PAINT	-	7
122	Storage	SEAL	-	SEAL	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	SGC	PAINT	-	6
123	Inspection	N-SLIP	-	NONE	-	NONE	-	NONE	-	NONE	-	NONE	-	OPEN	PAINT	-	2, 8
124	Lease Equipment	SEAL	-	NONE	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	OPEN	PAINT	-	2
125	Lease Equipment	SEAL	-	NONE	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	OPEN	PAINT	-	2
126	Cingular Equipment	SEAL	-	NONE	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	OPEN	PAINT	-	2
127	WSP Equipment	SEAL	-	NONE	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	OPEN	PAINT	-	2
128	Common Chase	SEAL	-	NONE	-	PAINT	-	PAINT	-	PAINT	-	PAINT	-	OPEN	PAINT	-	2

#### MATERIAL ABBREV.

AL	Aluminum
CBU	Cementitious Backer Units applied to framing.
CPT	Carpet
CT	Ceramic Tile
GYP	Gypsum Board applied to framing
N-SLIP	Non-Slip Finish on concrete. Refer to Division 3 specifications.
SAT	Suspended Acoustical Tile
SEAL	High-Gloss Sealed Concrete.
SGC	Suspended Gypsum Board Ceiling
SS	Stainless Steel
STL	Steel
WD	Wood
VWB	Vinyl Wall Base
RC	Rubbed Concrete

#### NOTES

- Space contains a recessed pedigrd.
- Ceiling height varies with stairs or open structure
- UL Fire Rated Assembly - 3 hour
- Ground face CMU, exposed finish
- Paint gypsum board exposed to view, this area
- UL Fire Rated Ceiling Assembly - 2 hour
- Provide floor expansion joints in quarry tile beneath all control joints and as indicated in detail 5/A301.
- Paint interior guardrails, handrails, edge guards safety yellow.

#### FINISH NOTES / ABBREV./

AN	Anodized
FAF	Factory Applied Finish
OPEN	Structure is exposed or open to above
PAINT	Paint
S&V	Stain & Varnish

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

#### DETAILS & SCHEDULES

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

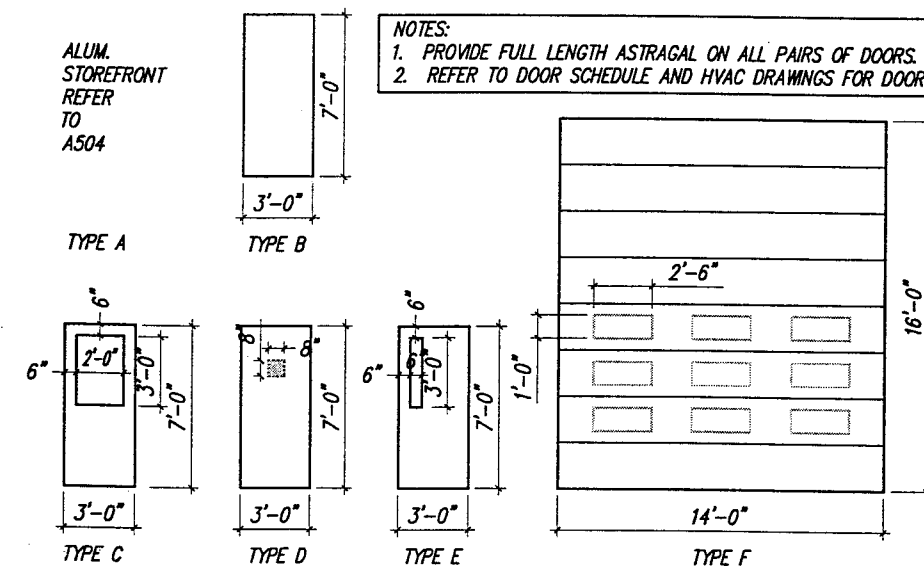
SHEET NO: 155 OF

DWG. A510

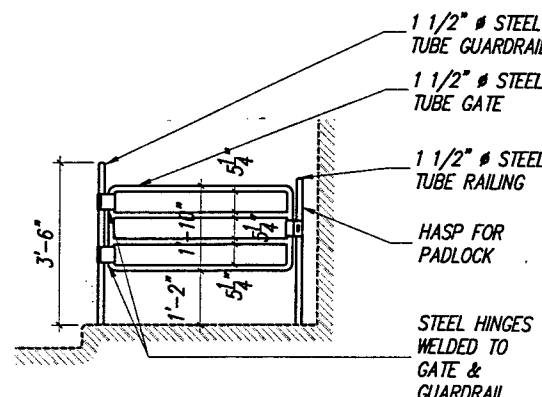
# HARDWARE SCHEDULE

TAG	DESCRIPTION	QUANT. / LEAF	MFGR.	MODEL	FINISH	REMARKS
L1	Lockset - Passage	1 ONLY	Schlage	D10S	US 32 D	
L2	Lockset - Privacy	1 ONLY	Schlage	D40S	US 32 D	
L3	Lockset - Entrance/Office	1 ONLY	Schlage	D50PD	US 32 D	
L4	Lockset - Store Lock	1 ONLY	Schlage	D66PD	US 32 D	
L5	Lockset - Storeroom	1 ONLY	Schlage	D80PD	US 32 D	
L6	Lockset - Classroom Lock	1 ONLY	Schlage	D70PD	US 32 D	
L7	Lockset - Vestibule	1 ONLY	Schlage	D60PD	US 32 D	
L8	Lockset - Entrance/Office	1 ONLY	Ilco / Unican	L1021	US 32 D	
H1	Hinges - Ball Bearing	3 ONLY	Hager	BB1199	US 32 D	4.5 in. x 4.5 in.
H2	Hinges - Spring Hinge	2 ONLY	Hager	BB1250	US 32 D	3.5 in. x 3.5 in. for self-closing gate
H3	Hinges	2 ONLY	-	-	PAINTED	Fabricated by gate manufacturer.
S1	Stop - Wall mounted	1 ONLY	Hager	236W	US 32 D	
C1	Closer	1 ONLY	LCN	4040 Super Smoothee	GREY	Metal Cover
P1	Push Plate & Push Plate With Pull Handle	1 ONLY	Hager	30S & 33G	US 32 D	1 Set of push pulls per door
T1	Threshold	1 ONLY	Reese	S483AN	-	ADA Compliant, Fire Rated
T2	Threshold	1 ONLY	Reese	S205A	-	ADA Compliant, 5 in. Wide
SW1	Sweep	1 ONLY	Reese	F377C	-	Fire Rated
SW2	Sweep	1 ONLY	Reese	377C	-	Fire Rated
W1	Weatherstripping - Perimeter Seal	1 ONLY	Reese	F797B	-	Fire Rated
W2	Weatherstripping	1 ONLY	Reese	797B	-	Fire Rated
K1	Kick plate	2 ONLY	Rockwood	35" wide x 16" high	US32D	One kickplate each side
K2	Kick plate	2 ONLY	Rockwood	35" wide x 6" high	US32D	One kickplate each side
M1	Coordinator	1 ONLY	Glynn-Johnson	COR2XFB2	Clear Anod.	
M2	Latch guard	1 ONLY	Hagar	3320	US32D	
M3	Automatic Flush Bolts	2 ONLY	Glynn-Johnson	FB7	US32D	Top and bottom
M4	Dust Proof Strike	1 ONLY	Glynn-Johnson	DP2	US32D	Bottom only

NOTES:  
1. PROVIDE FULL LENGTH ASTRAGAL ON ALL PAIRS OF DOORS.  
2. REFER TO DOOR SCHEDULE AND HVAC DRAWINGS FOR DOOR GRILLES.



1 ELEVATIONS-DOOR TYPES  
SCALE: 1/8" = 1'-0"



2 ELEVATION-GATE  
SCALE: 1/4" = 1'-0"

# DOOR SCHEDULE

NO.	SIZE	TYPE	STEEL - INSULATED	STEEL - LABELED (hourly rating)	STEEL - FLUSH	WOOD - SOLID CORE	ALUMINUM STOREFRONT	PLASTIC LAMINATE GATE - FLUSH	PIPE RAIL GATE	INSULATED OVERHEAD DOOR	HOLLOW METAL - DRYWALL FRAME - TYP	HOLLOW METAL MASONRY	HOLLOW METAL - LABELED (hourly rating)	ALUMINUM STOREFRONT	PIPE RAIL FABRICATION	MISCELLANEOUS STEEL	LOCKSET	HINGES	STOP	CLOSER	PUSH / PULL	THRESHOLD	SWEEP	WEATHER-STRIPPING	KICK PLATE	POWER OPERATED	MISCELLANEOUS	PAINT - ENAMEL	STAIN & VARNISH	FACTORY FINISHED	1/2" UNDERCUT	REMARKS
100	36"x84"	A																														
101	36"x84"	A																														
102	36"x84"	B																														
103	36"x84"	B																														
104	36"x84"	D	3																													
105	36"x84"	B																														
106	36"x84"	C																														
106A	36"x84"	E																														
107A	36"x84"	C																														
107B	36"x36"	-																														
108	36"x84"	B	X																													
108A	36"x36"	G																														
110	36"x84"	E	X																													
111	36"x84"	C																														
112	36"x84"	E																														
112A	36"x84"	E																														
113	36"x84"	C																														
114	36"x84"	C	X																													
115	36"x84"	C	X																													
116	36"x84"	B																														
117	36"x84"	B	3																													
117A	36"x84"	B	3																													
118	36"x84"	D	3																													
119	36"x84"	B																														
120	36"x84"	B																														
121	36"x84"	B																														
122	36"x84"	B	3																													
122A	36"x84"	B	3																													
123A	36"x84"	E	X																													
123B	36"x84"	E	X																													
123C	36"x84"	B	X																													
123D	36"x84"	B	X																													
123E	14ftx16ft	F																														
123F	14ftx16ft	F																														
123G	14ftx16ft	F																														
123H	14ftx16ft	F																														
124	36"x84"	B	X																													
125	36"x84"	B	X																													
126	36"x84"	B	X																													
127	36"x84"	B	X																													
128	36"x84"	B	X																													

NOTES:  
1. Field paint to match manufactured roof panel.

PLANS PREPARED BY: VIERBICHER ASSOCIATES, INC. REEDSBURG, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

## SCHEDULES

SAFETY & WEIGHT FACILITY NO. 21

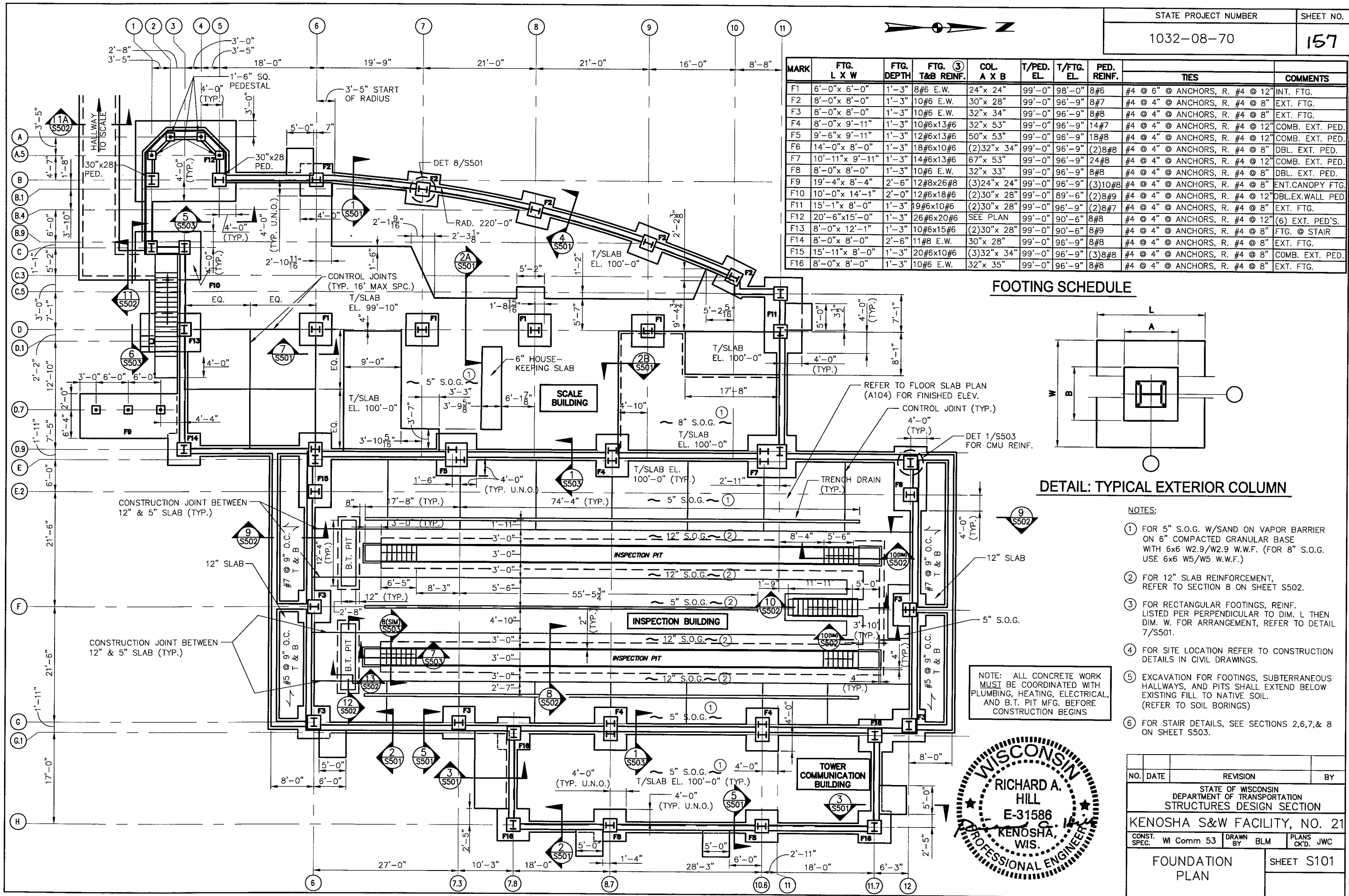
SCALE, FEET

DATE: 1/1/02

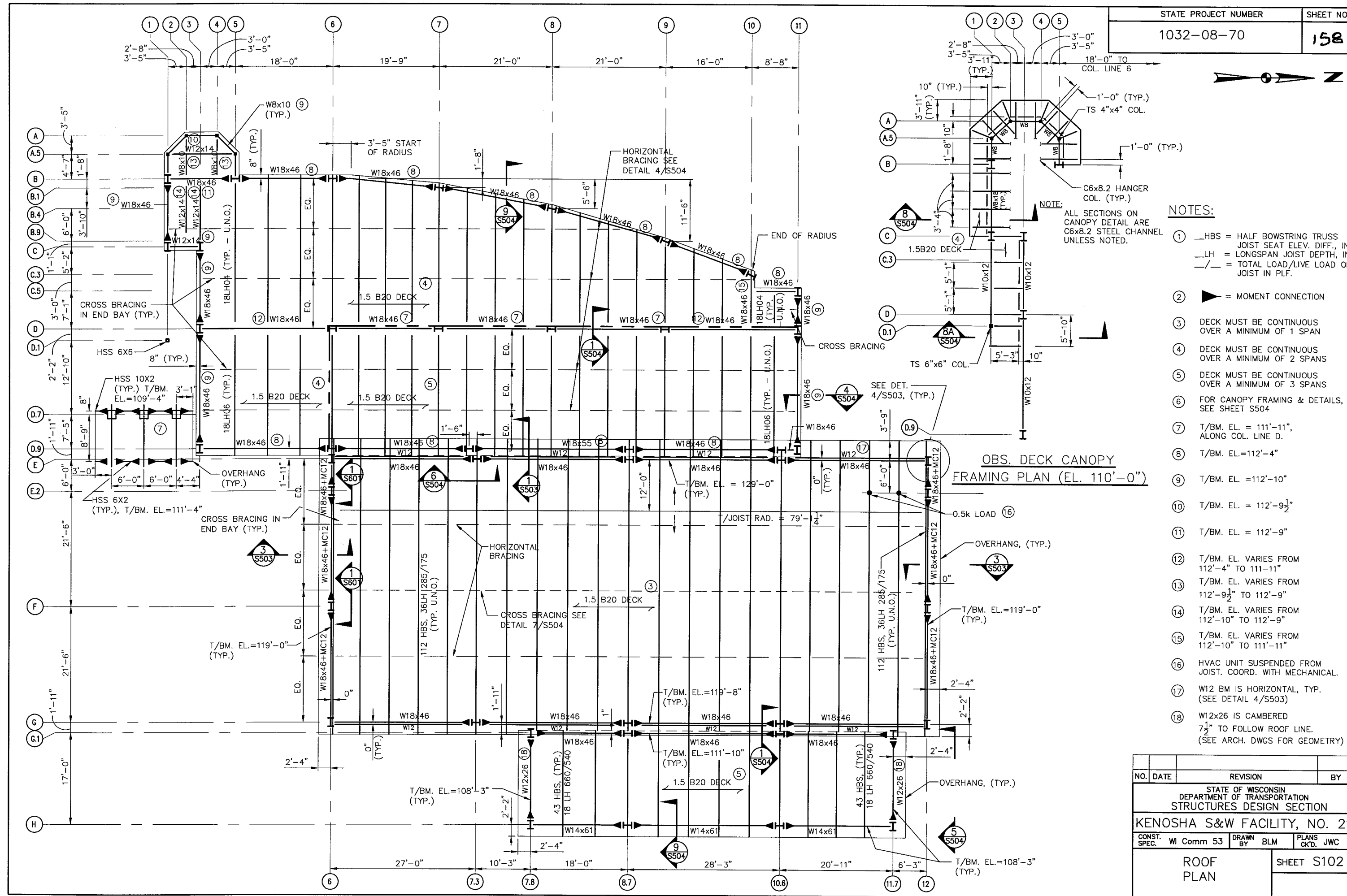
SHEET NO: 156 OF

DWG. A601

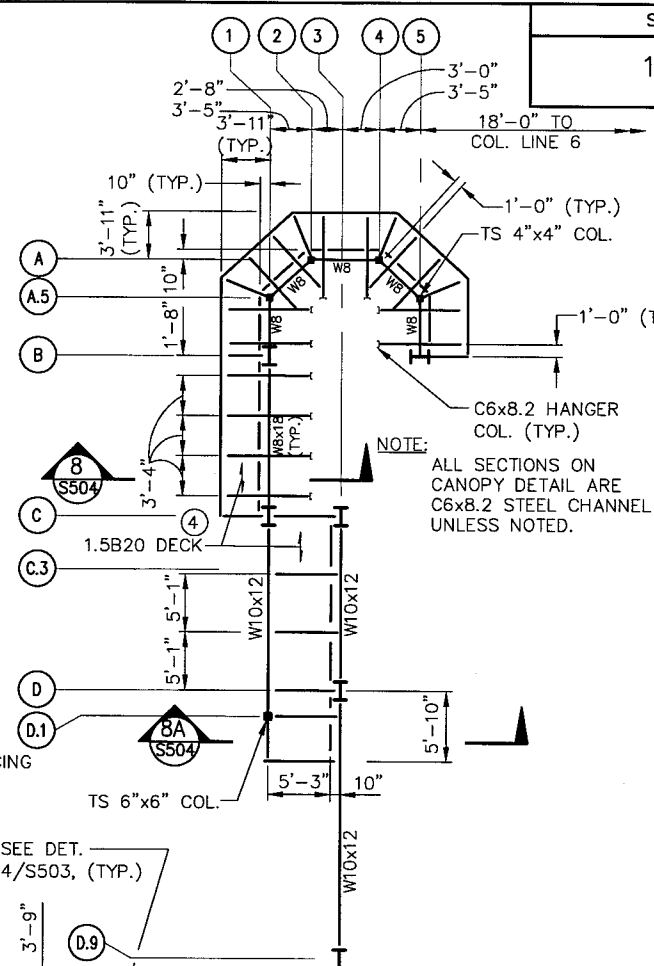








STATE PROJECT NUMBER	SHEET NO.
1032-08-70	158

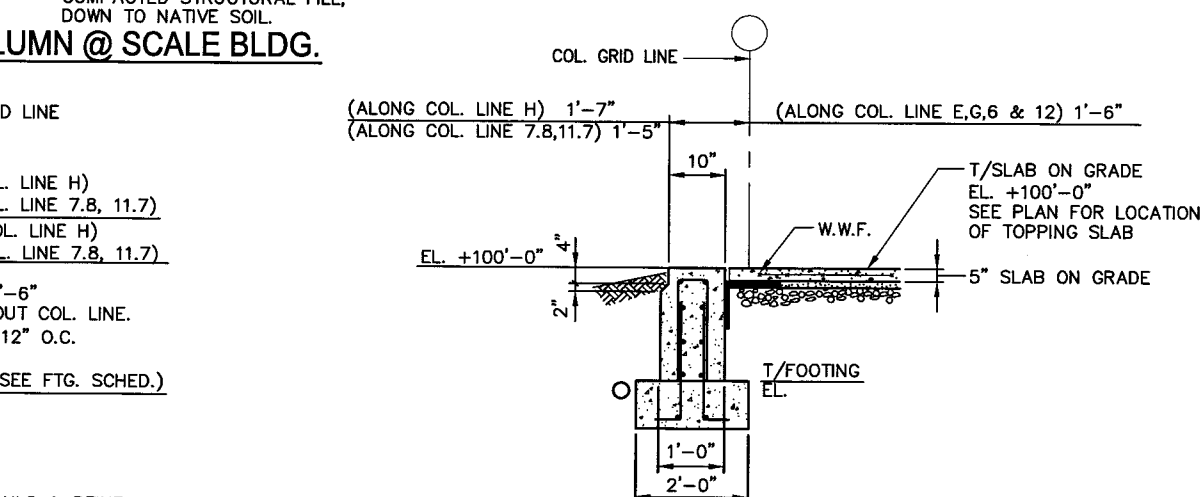
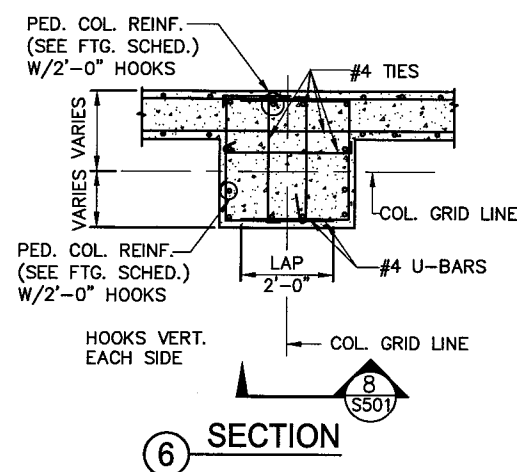
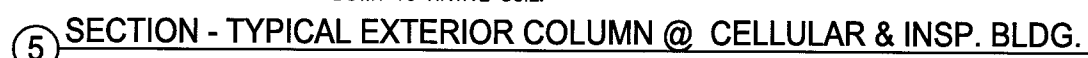
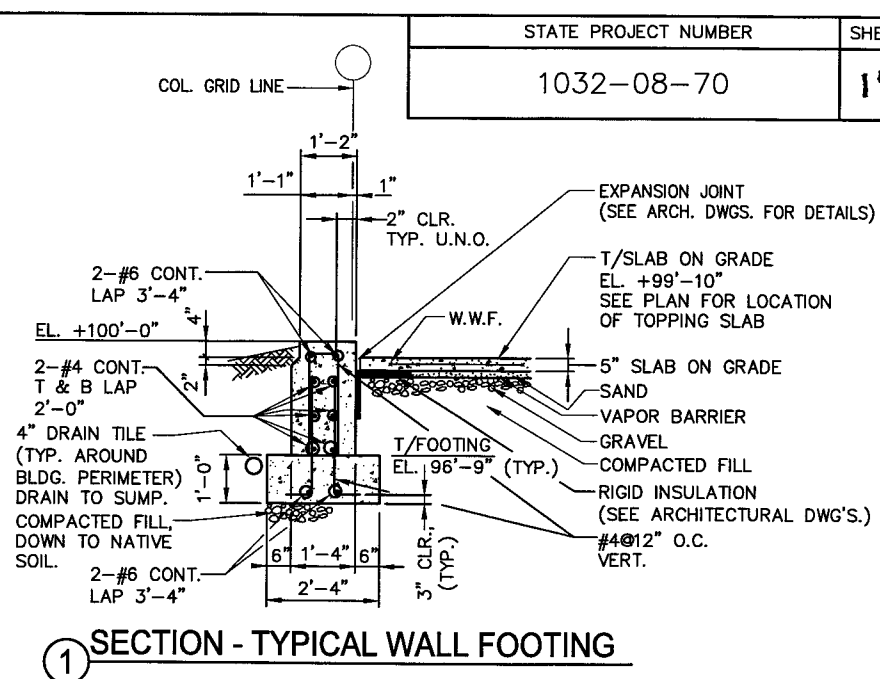


- NOTES:
- ① —HBS = HALF BOWSTRING TRUSS JOIST SEAT ELEV. DIFF., IN.  
—LH = LONGSPAN JOIST DEPTH, IN.  
—/— = TOTAL LOAD/LIVE LOAD ON JOIST IN PLF.
  - ② — = MOMENT CONNECTION
  - ③ DECK MUST BE CONTINUOUS OVER A MINIMUM OF 1 SPAN
  - ④ DECK MUST BE CONTINUOUS OVER A MINIMUM OF 2 SPANS
  - ⑤ DECK MUST BE CONTINUOUS OVER A MINIMUM OF 3 SPANS
  - ⑥ FOR CANOPY FRAMING & DETAILS, SEE SHEET S504
  - ⑦ T/BM. EL. = 111'-11", ALONG COL. LINE D.
  - ⑧ T/BM. EL. = 112'-4"
  - ⑨ T/BM. EL. = 112'-10"
  - ⑩ T/BM. EL. = 112'-9 1/2"
  - ⑪ T/BM. EL. = 112'-9"
  - ⑫ T/BM. EL. VARIES FROM 112'-4" TO 111'-11"
  - ⑬ T/BM. EL. VARIES FROM 112'-9 1/2" TO 112'-9"
  - ⑭ T/BM. EL. VARIES FROM 112'-10" TO 112'-9"
  - ⑮ T/BM. EL. VARIES FROM 112'-10" TO 111'-11"
  - ⑯ HVAC UNIT SUSPENDED FROM JOIST. COORD. WITH MECHANICAL.
  - ⑰ W12 BM IS HORIZONTAL, TYP. (SEE DETAIL 4/S503)
  - ⑱ W12x26 IS CAMBERED 7 1/2" TO FOLLOW ROOF LINE. (SEE ARCH. DWGS FOR GEOMETRY)

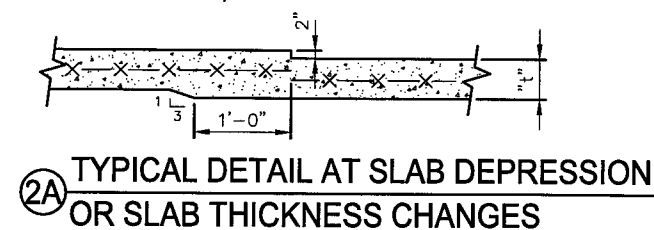
OBS. DECK CANOPY  
FRAMING PLAN (EL. 110'-0")

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 21			
CONST. SPEC.	WI Comm 53	DRAWN BY BLM	PLANS CK'D JWC
ROOF PLAN		SHEET S102	

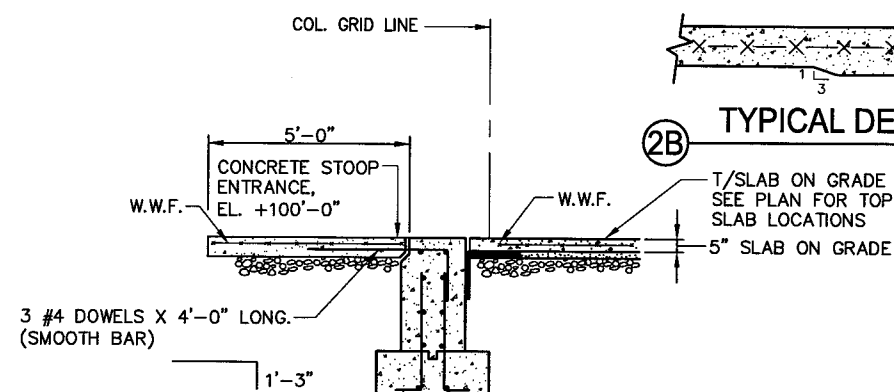
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SCAIF



**2 SECTION - TYPICAL WALL FOOTING @ CELLULAR & INSP. BLDG.**  
FOR DETAILS & REINF., SEE SECTION 1/S5.01

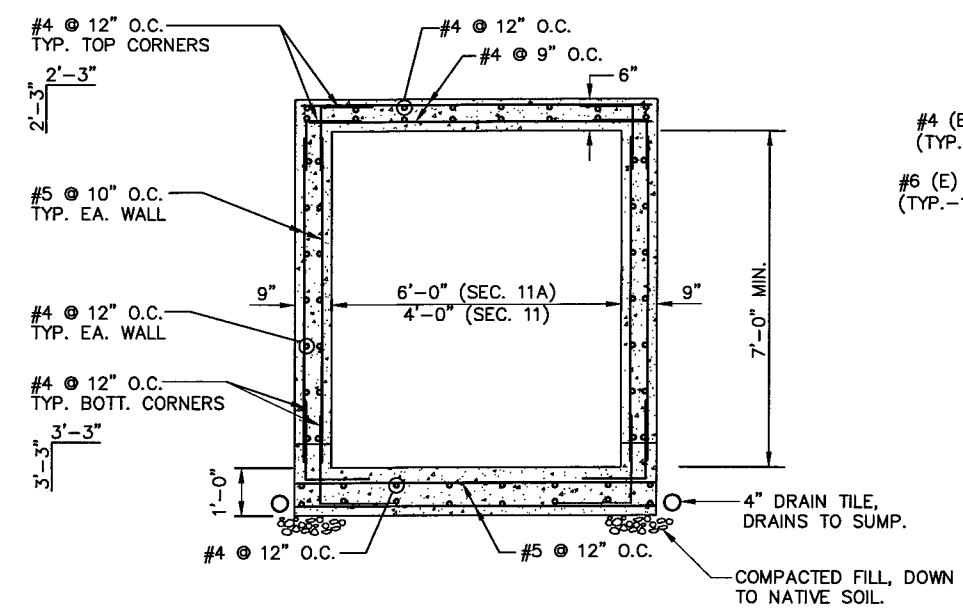


25 TYPICAL DETAIL AT THICKENED SLAB

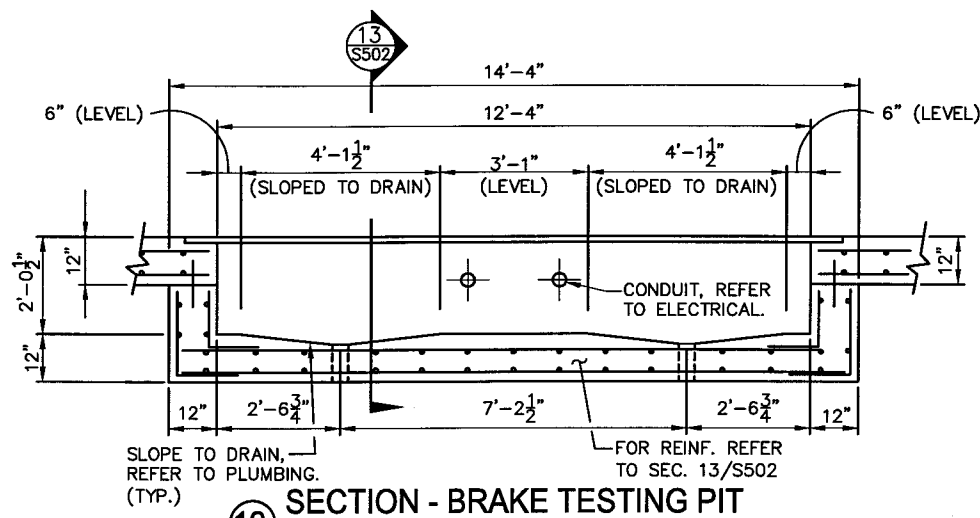


**3 SECTION - TYPICAL WALL FOOTING @ ENTRANCE**  
FOR DETAILS & REINF., SEE SECTION 1/S501

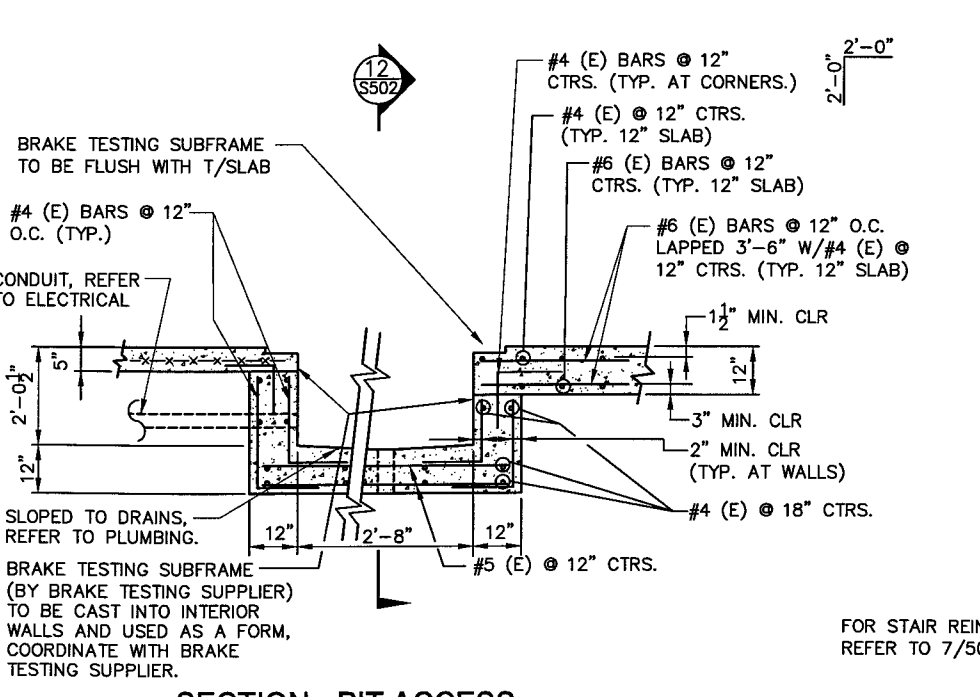
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 2			
CONST. SPEC.	WI Comm 53	DRAWN BY	BLM PLANS CK'D. JWC
FOUNDATION DETAILS			SHEET S501



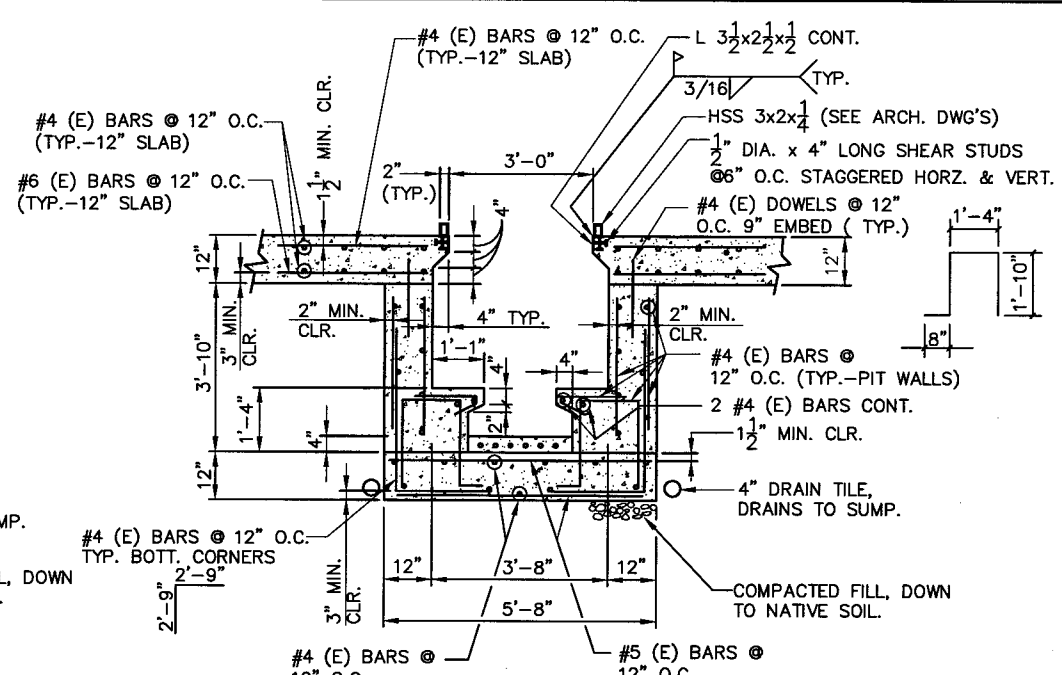
11 & 11A SECTION - HALLWAY ENTRANCE TO SCALE



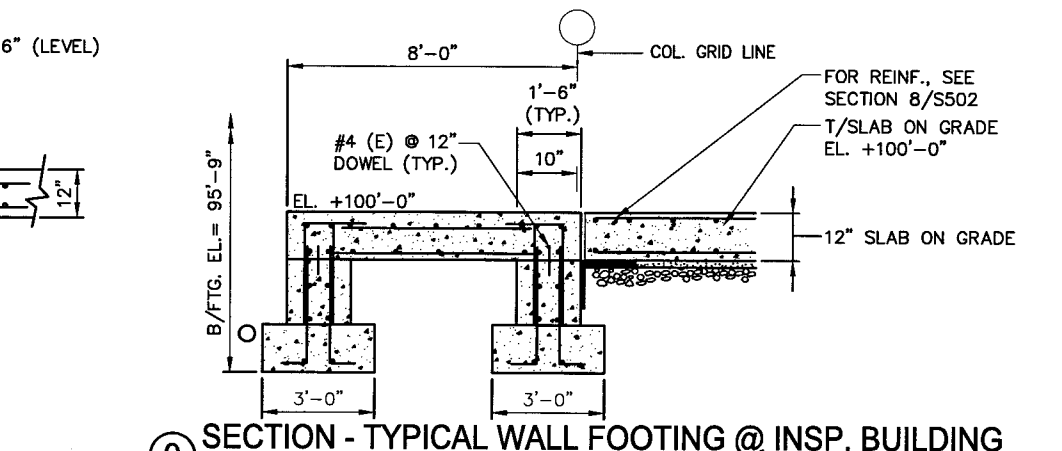
12 SECTION - BRAKE TESTING PIT  
NOTE: LEVEL AREAS SHOWN ARE NEEDED TO SUPPORT SUBFRAME.



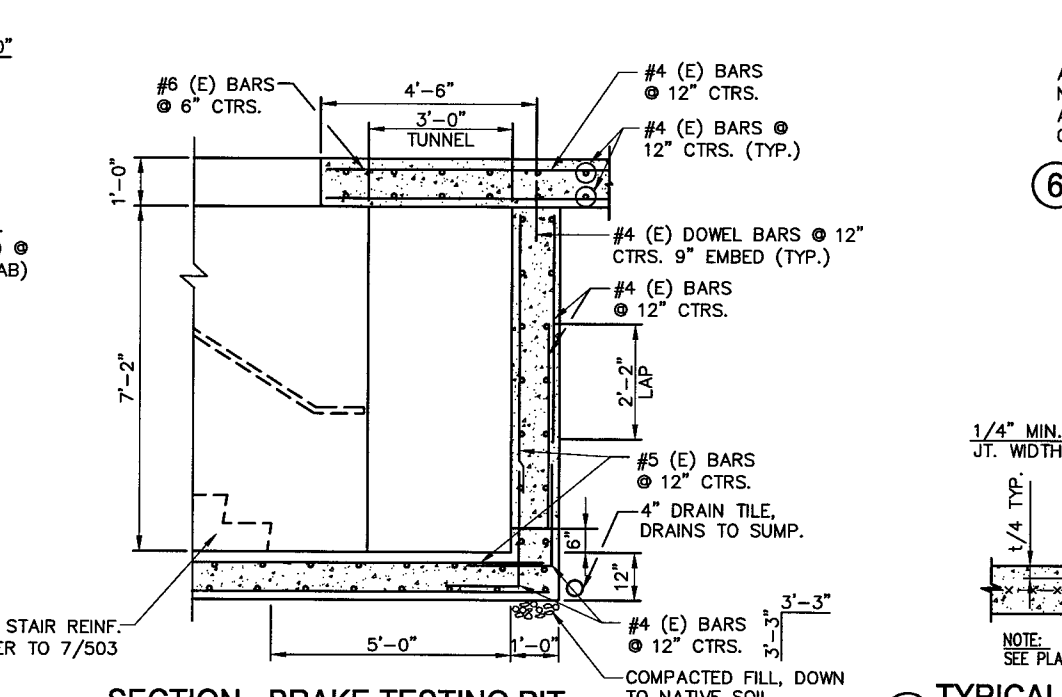
13 SECTION - PIT ACCESS



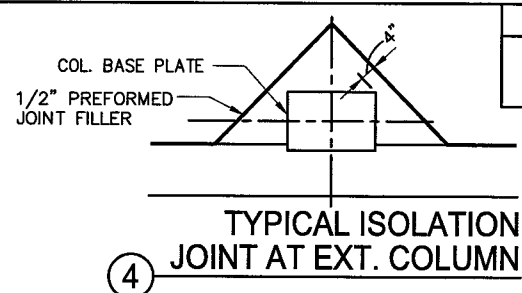
8 SECTION - INSPECTION PIT  
NOTE: (E) = EPOXY COATED BARS



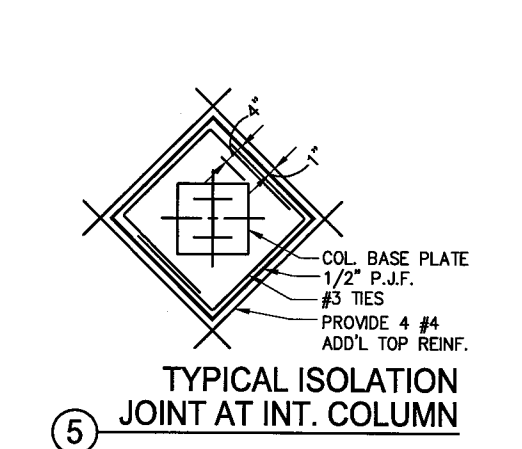
9 SECTION - TYPICAL WALL FOOTING @ INSP. BUILDING  
FOR DETAILS & REINF., SEE SECTION 1/S501 & FOUNDATION PLAN



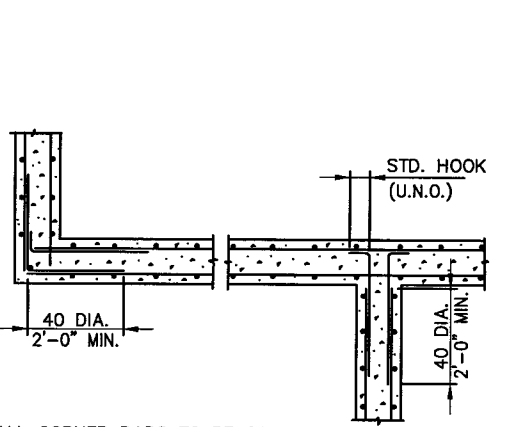
10 SECTION - BRAKE TESTING PIT



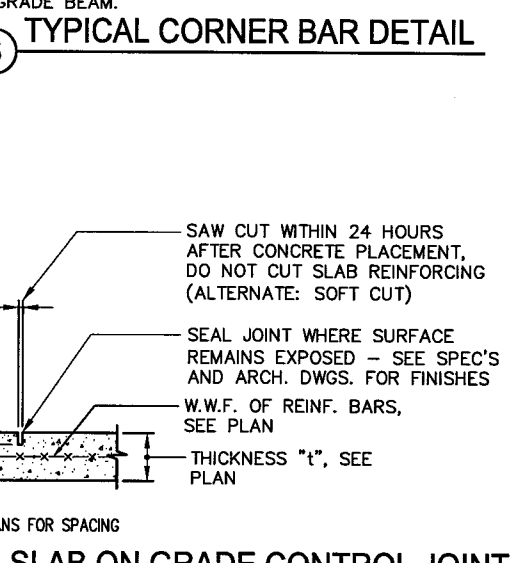
4 TYPICAL ISOLATION JOINT AT EXT. COLUMN



5 TYPICAL ISOLATION JOINT AT INT. COLUMN

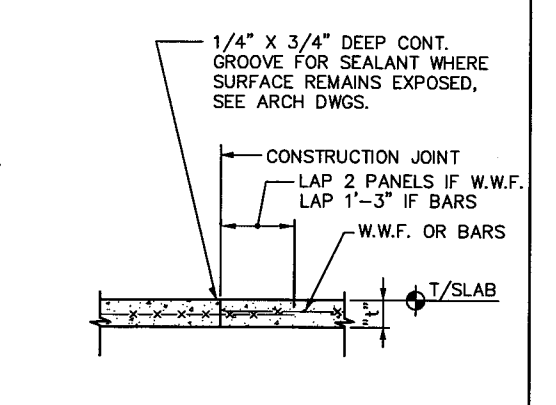


6 TYPICAL CORNER BAR DETAIL

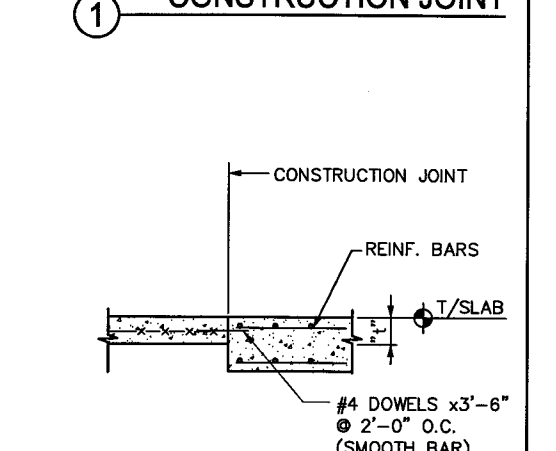


7 TYPICAL SLAB ON GRADE CONTROL JOINT

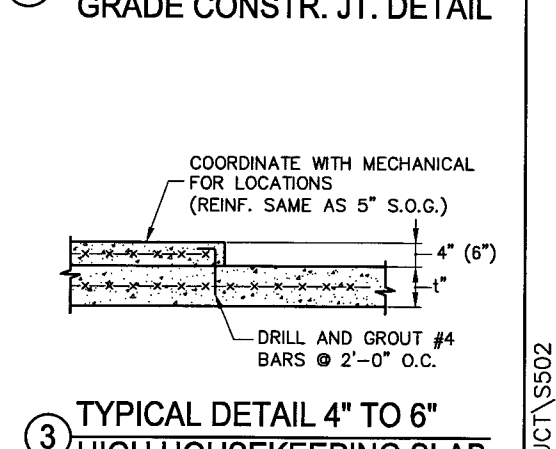
STATE PROJECT NUMBER	SHEET NO.
1032-08-70	160



1 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT



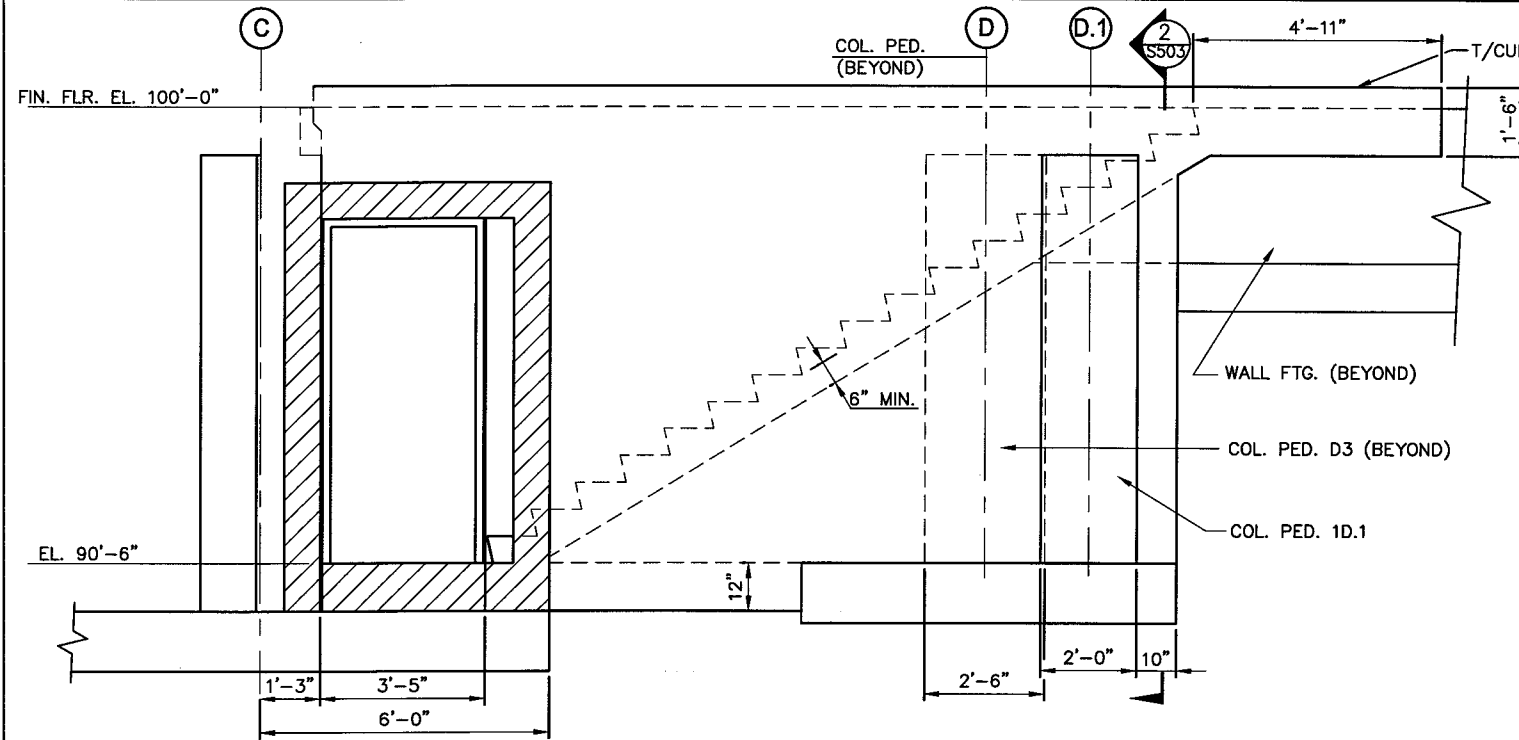
2 TRANSITION SLAB ON GRADE CONSTR. JT. DETAIL



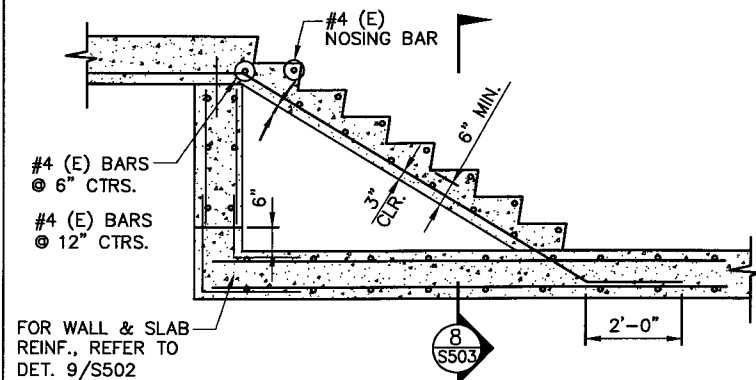
3 TYPICAL DETAIL 4" TO 6" HIGH HOUSEKEEPING SLAB

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 21			
CONST. SPEC. WI Comm 53	DRAWN BY BLM	PLANS CK'D JWC	
FOUNDATION DETAILS		SHEET S502	

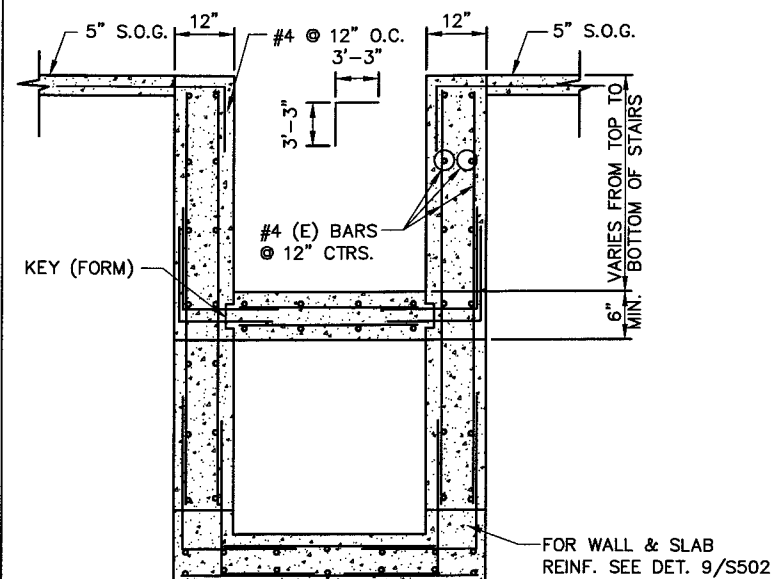
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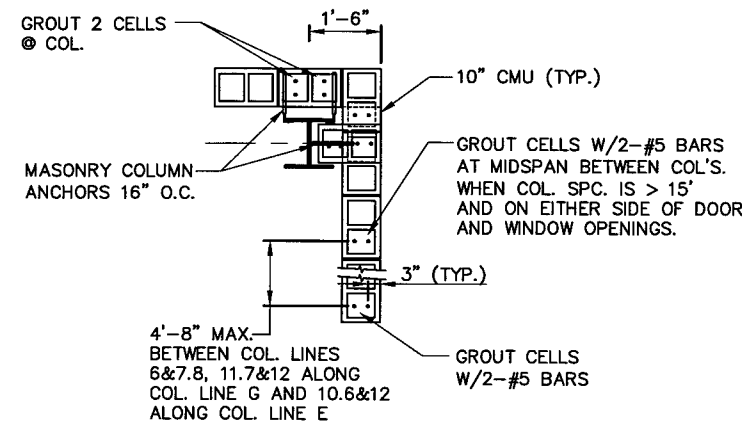
6 SECTION - STATIC SCALE ENTRY



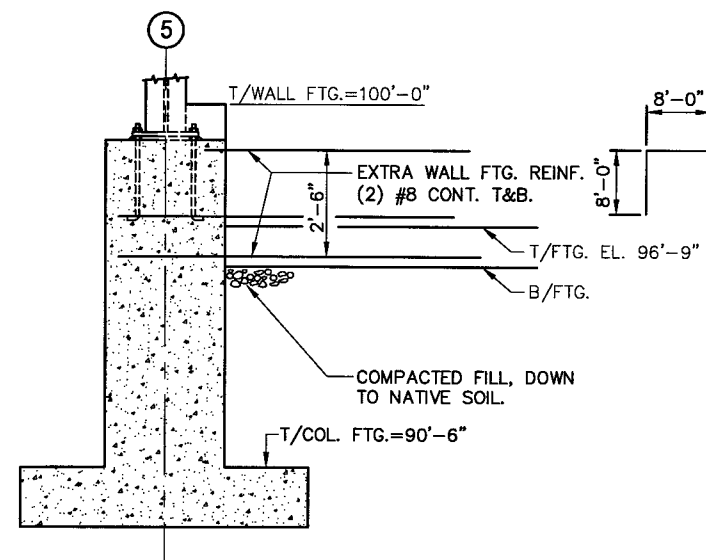
7 TYPICAL STAIR REINFORCEMENT DETAIL



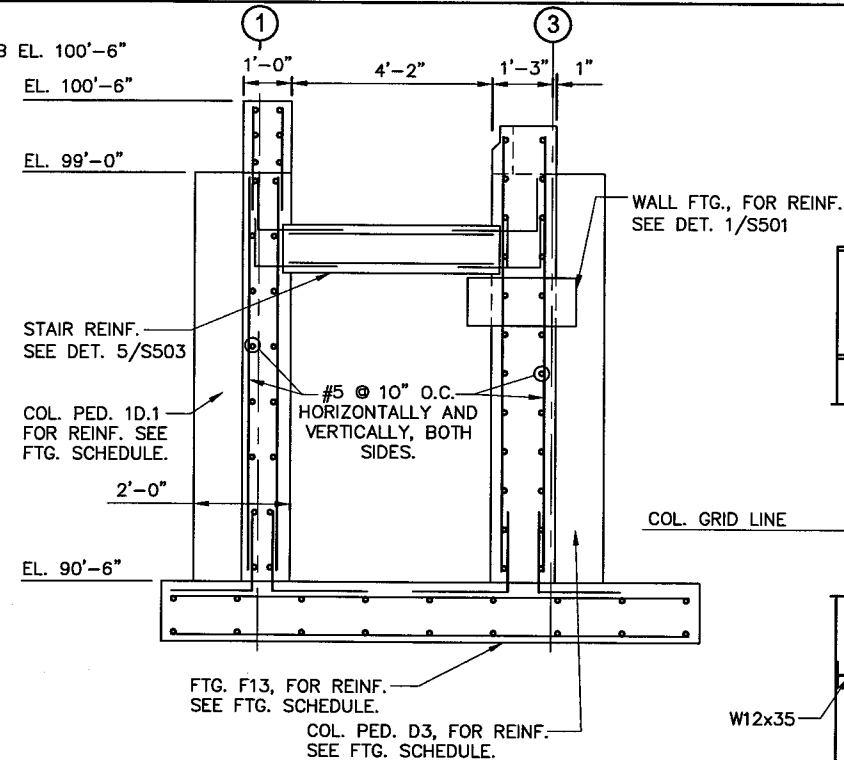
8 TYPICAL STAIR REINFORCEMENT SECTION DETAIL



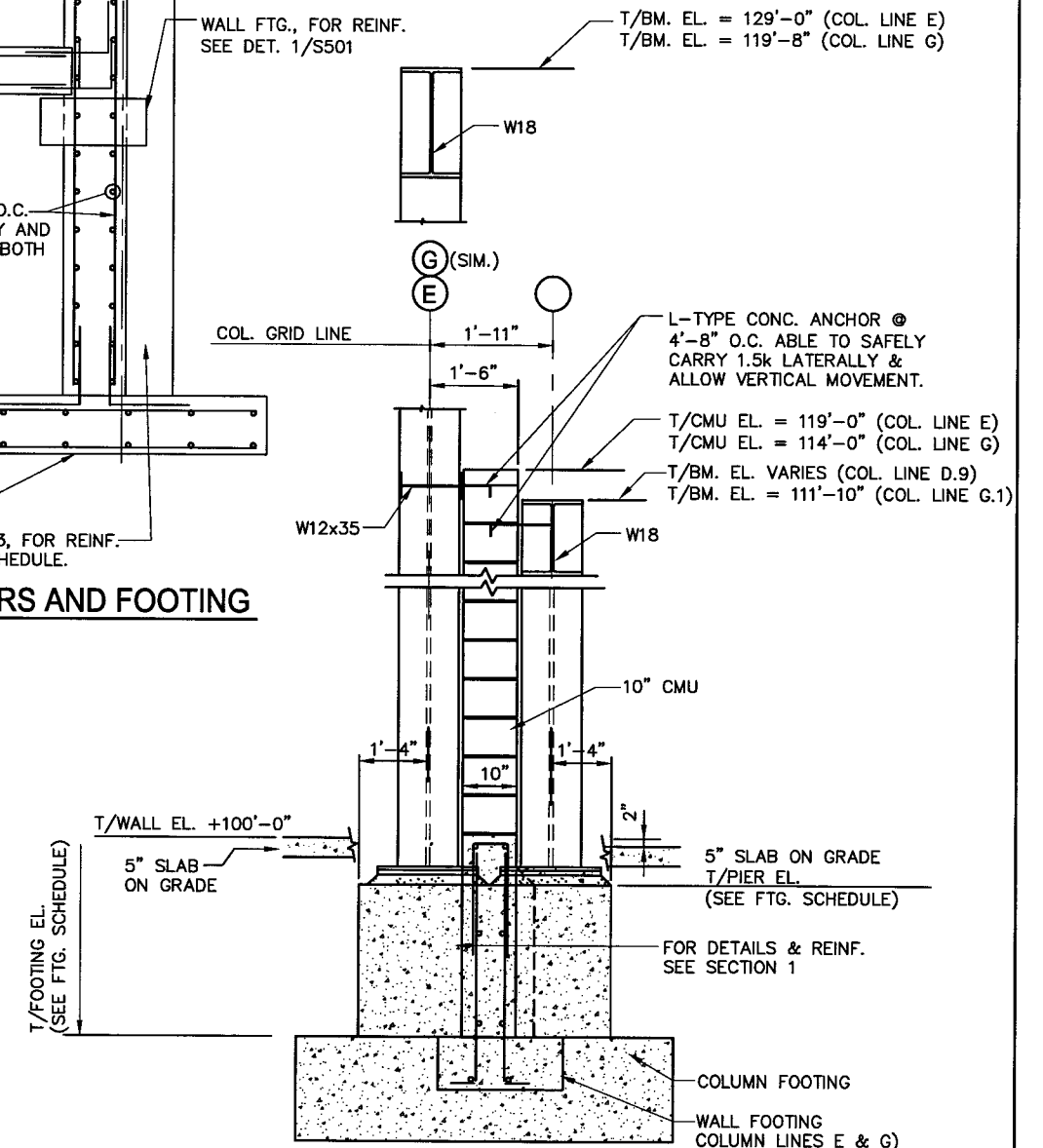
4 MASONRY WALL REINF. TYP. DETAIL @ COLUMNS. & BETWEEN COLUMNS.



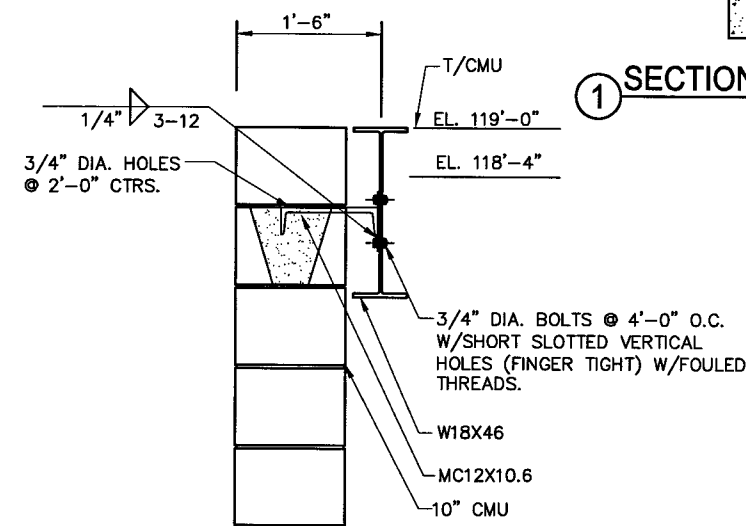
5 TYPICAL STEPPED DETAIL @ FTG. FOR COL'S. ON FTG. F12, COL'S. B1 TO C1, AND COL D3



2 SECTION - STAIRS AND FOOTING

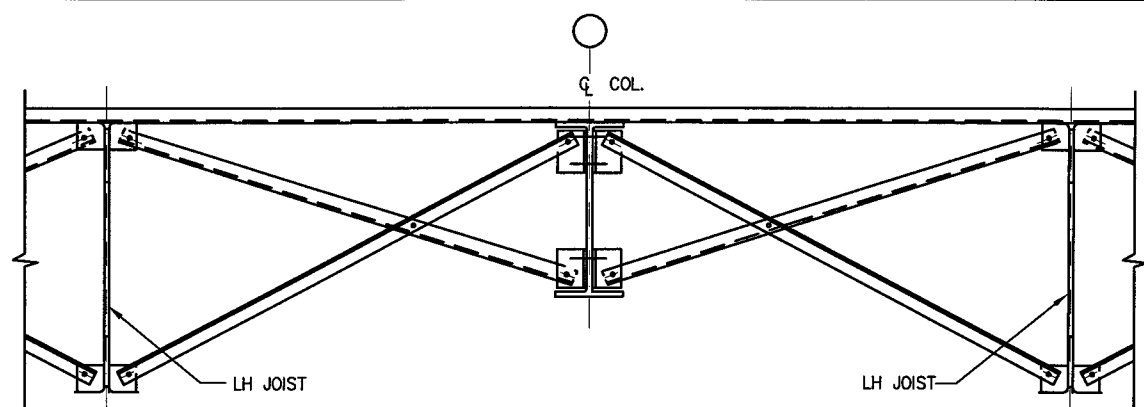


1 SECTION - TYPICAL COLUMN WALL @ COL. LINES E & G

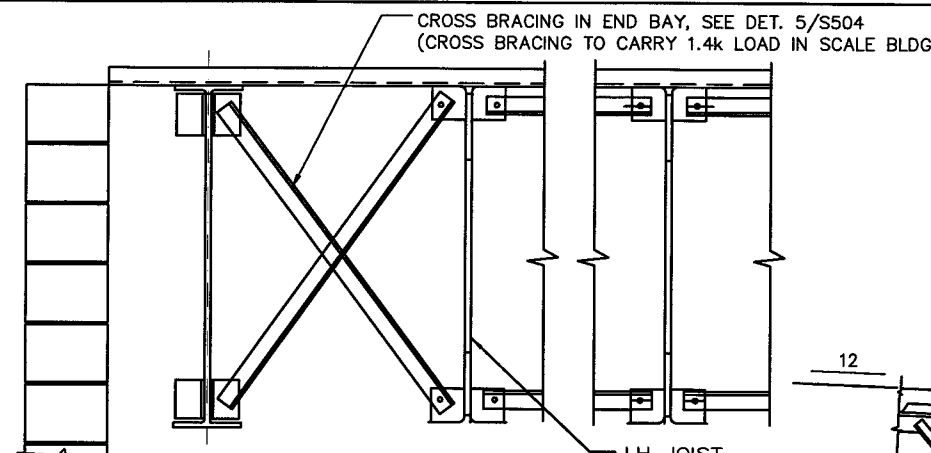


3 TYPICAL CMU-STRUCTURAL STEEL LATERAL TIE BACK CONNECTION

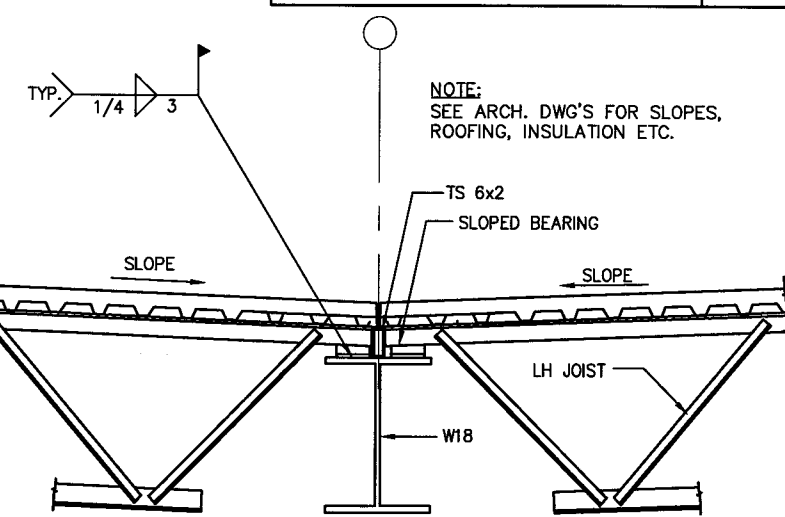
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 21			
CONST. SPEC. WI Comm 53	DRAWN BY BLM	PLANS CK'D. JWC	
FOUNDATION/WALL DETAILS			SHEET S503



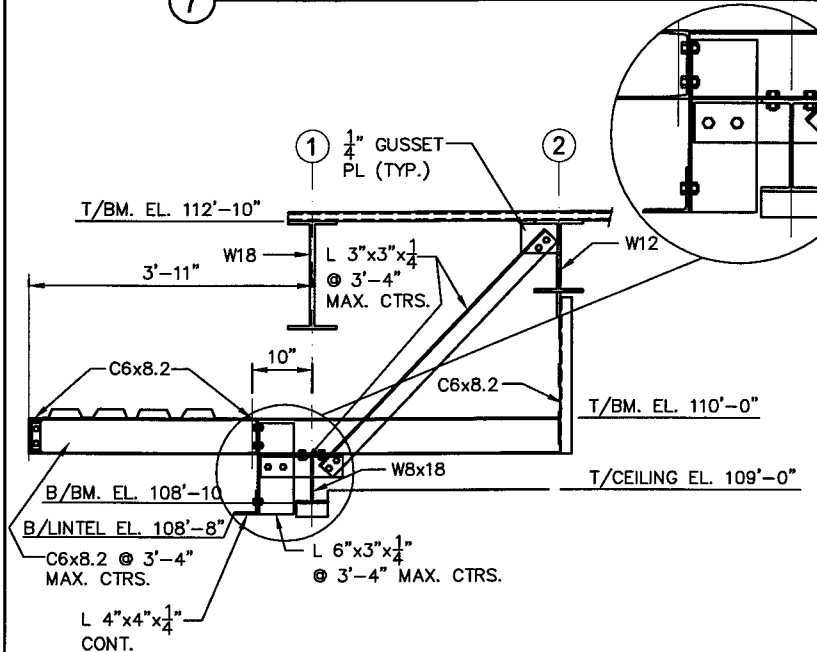
7 CROSS BRACING DETAIL FOR LONG SPAN JOISTS (LH)



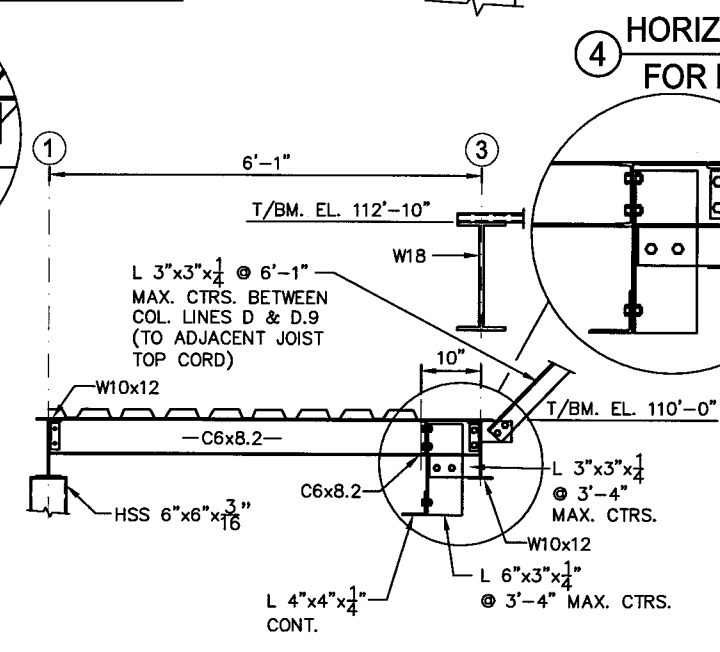
4 HORIZONTAL BRACING DETAILS FOR LONG SPAN JOISTS (LH)



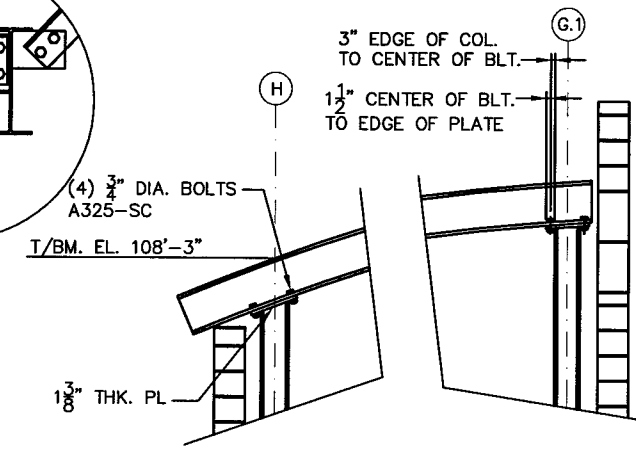
1 TYPICAL JOIST-TO-BEAM CONNECTION



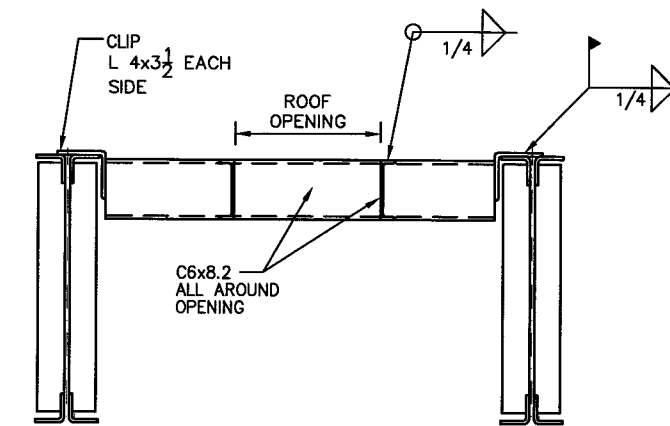
8 TYPICAL CANOPY CONNECTION



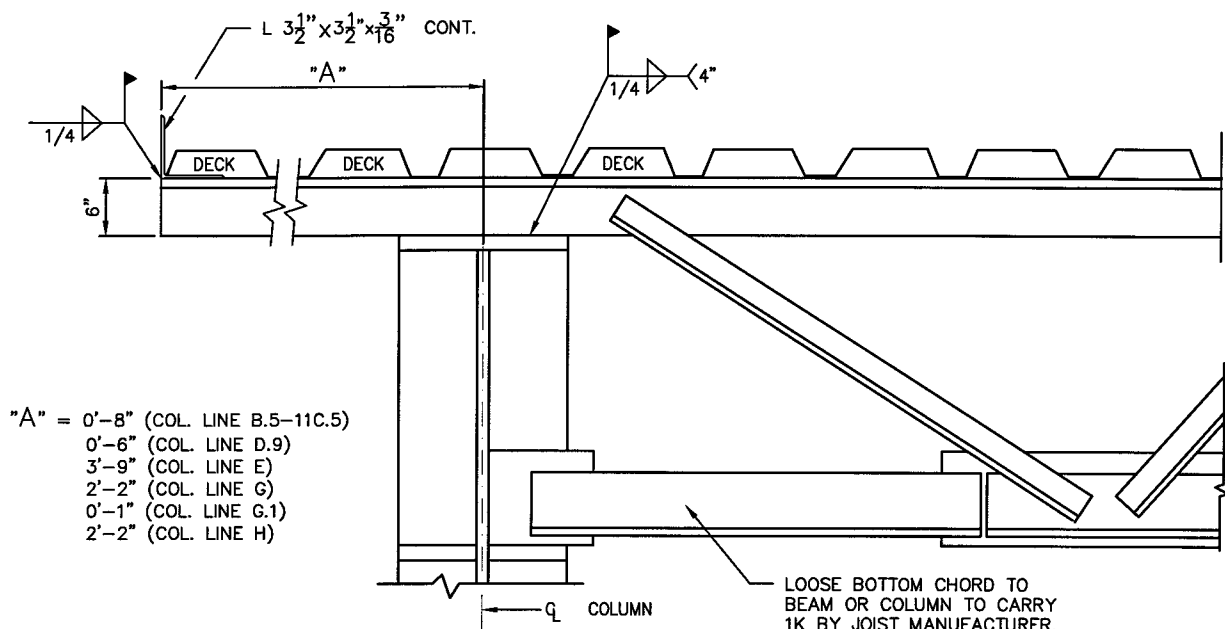
8A TYPICAL CANOPY CONNECTION



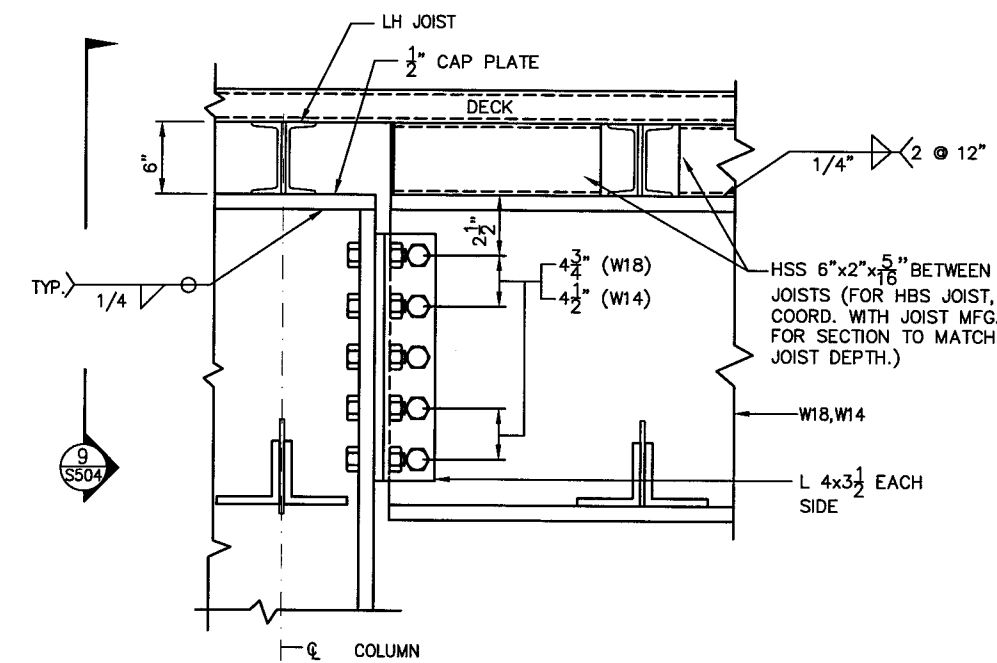
5 W12 MOMENT CONNECTION



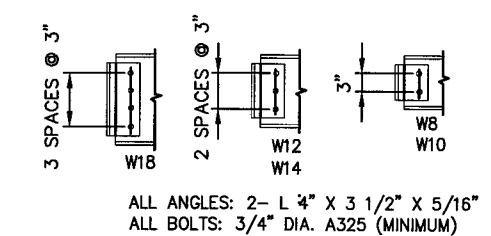
2 TYPICAL ROOF OPENING DETAILS



9 SECTION - JOIST SEAT @ COLUMN & BEAM

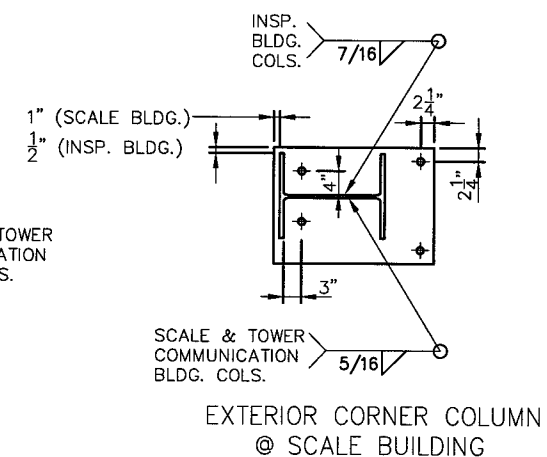
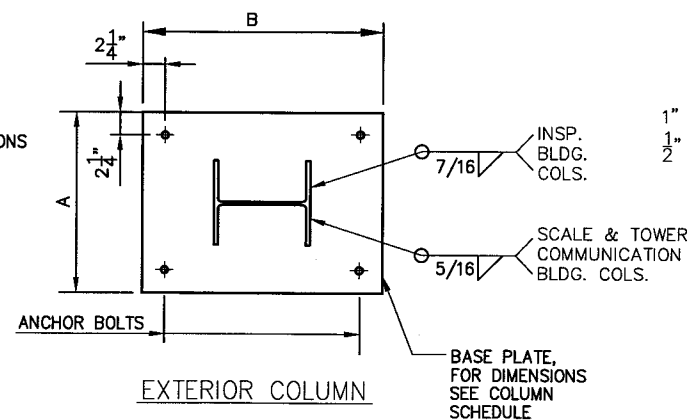
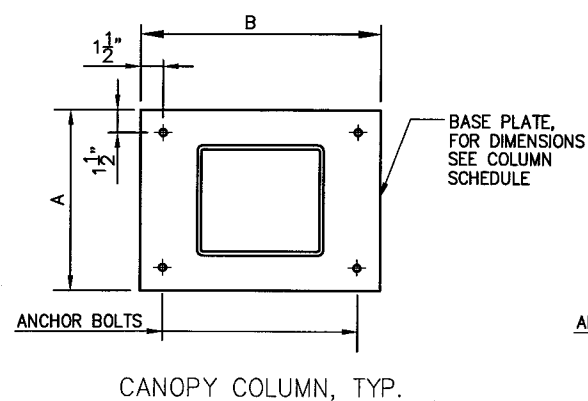
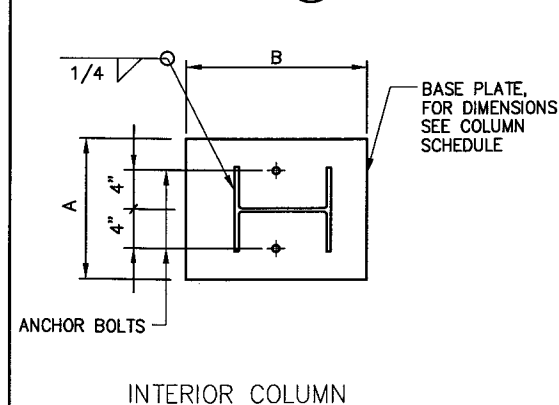
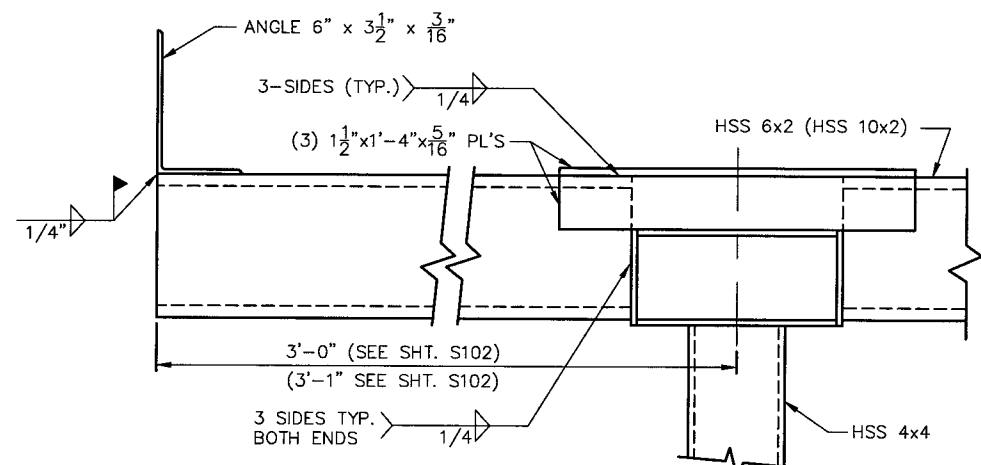
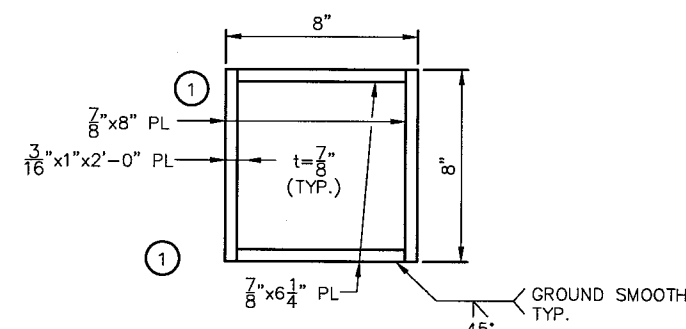
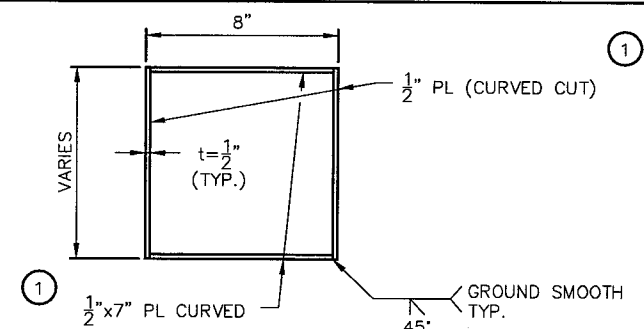
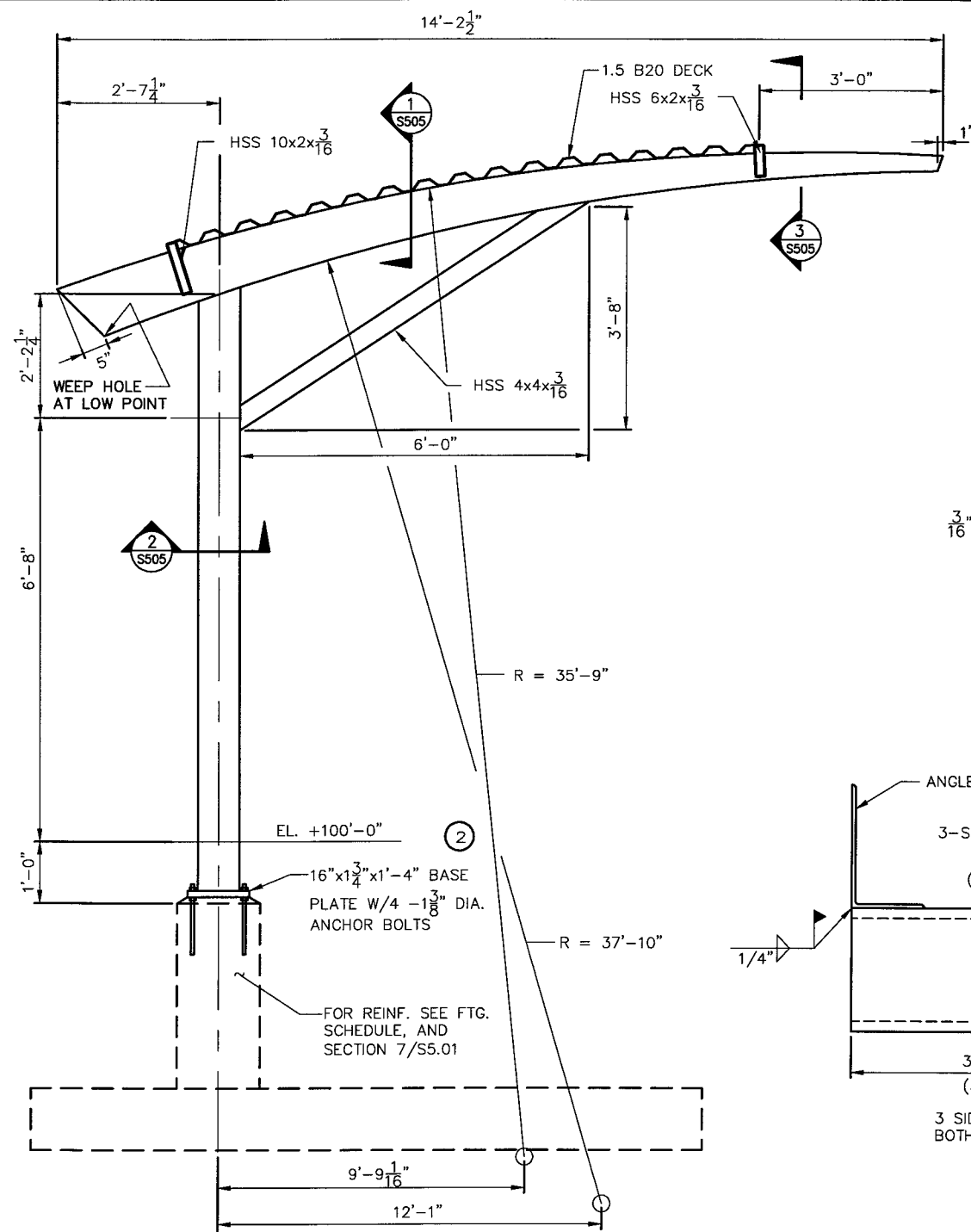


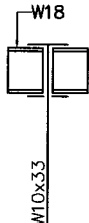



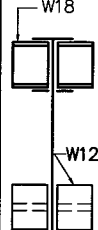























6 MOMENT CONNECTION, (TYPE 2)



3 TYPICAL BEAM CONNECTION  
(UNLESS DETAILED ELSEWHERE)  
(SLIP CRITICAL U.N.O.)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 21			
CONST. SPEC. WI Comm 53	DRAWN BY BLM	PLANS CK'D. JWC	
STEEL DETAILS			SHEET S504



COLUMN LOCATION		SCALE BUILDING COLUMNS (22)	OBSERVATION DECK COLUMNS (5)	TOWER COMMUNICATION BUILDING COLUMNS (8)	INSPECTION BUILDING COLUMNS (14)			
ELEVATION		B1,B5,6B-9B.6 C1,C3,10C.3, 11C.5,D3,D6-D9, D11 3D.9,6D.9-11D.9	1D.1	A2,A4,1A.5, 5A.5	7.8G.1-11.7G.1 7.8H-11.7H	6G,67.3, G8.7,G10.6, G12	E6,E7.3, E8.7,E10.6, E12	6E.2,T2E.2 F6,F12
INSP. BLDG: B/HBS JOISTS								
SCALE BLDG: B/LH JOISTS INSP. BLDG: B/KAYWALL PANELS (G-LINE)		W10x33	HSS 6x6x $\frac{1}{4}$ "	HSS 4x4x $\frac{1}{2}$ "	W10x33	W12x87	W12x87	W12x87
T/FNDN WALL EL. + 100'-0"								
SLAB ON GRADE ELEV. +99'-10"								
TOP/PEDESTAL								
BASE PLATE	SIZE(AxTxB)	11"x1 $\frac{1}{4}$ "x1'-6 $\frac{1}{4}$ "	7"x $\frac{3}{4}$ "x1'-0"	11"x $\frac{3}{4}$ "x1'-0"	14"x1"x1'-6 $\frac{1}{4}$ "	14"x1 $\frac{1}{2}$ "x1'-9"		
		9"x $\frac{1}{2}$ "x10 $\frac{3}{4}$ " ②						
		10"x1 $\frac{1}{2}$ "x16" ③				14"x2 $\frac{3}{8}$ "x1'-6" ③		
ANCHOR BOLTS		4-1" DIA. 2- $\frac{3}{4}$ " DIA. ② 4-1" DIA. ③	4-1" DIA.	4-1" DIA.	4-1" DIA.	4-1" DIA. 4-1 $\frac{1}{2}$ " DIA. ③		

### COLUMN SCHEDULE

NOTE :

- ① ALL BUILT UP SECTIONS FOR CANOPY SHALL BE FABRICATED FROM ASTM A572, GR. 50 GALVANIZED PLATES
- ② BASE PLATE AND ANCHOR BOLT SIZES FOR INTERIOR COLUMNS ONLY. (4 COLUMNS)
- ③ BASE PLATE AND ANCHOR BOLT SIZES FOR EXTERIOR CORNER COLUMNS AND COLS. 6E.2, 12E.2, F6, F12. (7 COLUMNS SCALE BLDG.), (4 COLUMNS INSP. BLDG.)

- ② BASE PLATE AND ANCHOR BOLT SIZES  
FOR INTERIOR COLUMNS ONLY. (4 COLUMNS)

- ③ BASE PLATE AND ANCHOR BOLT SIZES  
FOR EXTERIOR CORNER COLUMNS AND  
COLS. 6E.2, 12E.2, F6, F12.  
(7 COLUMNS SCALE BLDG.),  
(4 COLUMNS INSP. BLDG.)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 21			
CONST. SPEC.	WI Comm 53	DRAWN BY	BLM PLANS CK'D. JWC
STEEL DETAILS		SHEET S505	



GENERAL NOTES:

1. SHOP DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., WILL BE REVIEWED BY THE DESIGN TEAM FOR CONFORMANCE WITH THE DESIGN CONCEPT ONLY. NO WORK SHALL BE STARTED WITHOUT SUCH REVIEW.
2. THE GENERAL CONTRACTOR, PRIOR TO SUBMISSION TO THE DESIGN TEAM, SHALL REVIEW SHOP DRAWINGS PREPARED BY SUPPLIERS OR THE GENERAL CONTRACTOR.
3. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LINTELS, SHELF ANGLES, SIZE AND LOCATION OF FLOOR SLOPES, DEPRESSED AREAS, FLOOR DRAINS, FLOOR FILLS AND FINISHES, CURBS, CHAMBERS, TRENCHES, PITS, GROOVES, OPENINGS, SLEEVES, HANGERS, CONDUIT RUNS IN WALLS OR SLABS, MACHINE OR EQUIPMENT SUPPORTS, EQUIPMENT PADS, INSERTS AND OTHER EMBEDDED ITEMS.
4. UNLESS OTHERWISE SHOWN OR NOTED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF THE ABOVE ITEMS.

ELEVATIONS

5. ALL ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED ON FINISHED FIRST FLOOR ELEVATION 100'-0", WHICH EQUALS ELEVATION 227.400 METERS (746.06') ON THE ROADWAY DRAWINGS.

FOUNDATIONS

6. ALLOWABLE FOUNDATION LOADS: ALL FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 2900 P.S.F. (DEAD LOAD) AND/OR 2900 P.S.F. (DL&LL).
7. REFER TO THE ROADWAY DRAWINGS, SPECIFICATIONS, SUBSURFACE EXPLORATION REPORTS, AND TEST BORINGS FOR EXCAVATION, SUBSURFACE PREPARATION, AND GRANULAR FILL REQUIREMENTS.
8. THE TEST BORING RECORDS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO REPRESENT ALL CONDITIONS THAT WILL BE ENCOUNTERED.
9. ANCHOR BOLTS SHALL BE SET, AND CONCRETE BEARING SURFACES FOR COLUMNS SHALL BE FINISHED, TO THE FOLLOWING TOLERANCES:
- A. TOP OF CONCRETE ±3/8"
  - B. TOP OF ANCHOR BOLTS +1" TO -3/8"
  - C. OUT OF POSITION OF BOLTS ±1/8"
10. WATERSTOPS SHALL BE PROVIDED AT ALL WALL CONSTRUCTION JOINTS BELOW GRADE AND AT ALL JOINTS SO DETAILED ON THE DRAWINGS. WATERSTOP SHALL BE 6" PVC DOUBLE DUMBELL TYPE.
11. CONCRETE FOR ANY FOOTING SHALL NOT BE POURED ON FROZEN GROUND OR WHEN WATER IS PRESENT.
12. BUILDING IS CONSTRUCTED ON ENGINEERED FILL. UNSUITABLE EXISTING TOP LAYER SHALL BE EXCAVATED, FILLED WITH A COMPACTED ENGINEERED FILL TO FLOOR SLAB LEVEL, AND THEN EXCAVATED AT FOOTINGS, PITS, HALLWAYS AND STAIRS TO POUR CONCRETE. COORDINATE WITH ROADWAY PLANS AND SPECIFICATIONS.

CONCRETE

13. THE CONTRACTOR SHALL SUBMIT PLANS SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS FOR THE ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.
14. REINFORCING STEEL SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS.
15. WHERE A JOINT IS MADE, THE SURFACE OF THE CONCRETE SHALL BE ROUGHENED, THOROUGHLY CLEANED, AND ALL LAITANCE REMOVED. IN ADDITION, VERTICAL JOINTS SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT GROUT IMMEDIATELY BEFORE PLACING NEW CONCRETE.
16. ALL FOOTINGS, WALLS AND SLABS ON GRADE SHALL BE NORMAL WEIGHT CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I.
17. ALL SLABS ON GRADE SUPPORTING TRUCK LOADS SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I., CONTAINING 5 TO 7 PERCENT AIR ENTRAINMENT ADMIXTURE, AND FREE OF CHERT. SEE SPECIFICATIONS TO SEAL THE SURFACE AND PROVIDE SKID RESISTANCE.
18. THE CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW PRIOR TO ORDERING CONCRETE.
19. CONCRETE SHALL NOT HAVE ANY CHLORIDE ADDITIVE.
20. ALL REINFORCING BARS SHALL BE ASTM A615 (GRADE 60).
21. THE ARRANGEMENT OF ACCESSORIES SHALL BE IN ACCORDANCE WITH A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. ANY PART OF AN ACCESSORY WHICH WILL BE EXPOSED ON ANY CONCRETE SURFACE AFTER REMOVAL OF THE FORMS SHALL BE GALVANIZED OR PLASTIC TIPPED.
22. THE MINIMUM PROTECTIVE COVERING FOR MAIN REINFORCING STEEL SHALL BE AS FOLLOWS:
- A. WHERE CONCRETE IS PLACED AGAINST GROUND, 3".
  - B. FOR CONCRETE DEPOSITED AGAINST FORMS, BUT WHICH WILL BE EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND AFTER REMOVAL OF THE FORMS, 2".
  - C. FOR WALLS AND SLABS, EXCEPT AS NOTED ABOVE OR ON DETAILS, 1 1/2".

23. ALL SLABS ON GRADE SHALL BE REINFORCED WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC USING 9" LAPS AT SPLICES, EXCEPT AS NOTED OTHERWISE. REINFORCING SHALL BE PLACED 1 1/2" CLEAR FROM TOP OF SLAB. FILL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY (ASTM D1557-70, MODIFIED PROCTOR). THE MINIMUM MODULUS OF SUBGRADE REACTION, K, SHOULD BE GREATER THAN 200pci. PROVIDE KEYED CONSTRUCTION JOINTS AND LAP MESH. POUR SLABS IN AN ALTERNATE LONG-STRIP PATTERN. THE CONTRACTOR SHALL SUBMIT PLANS SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS FOR THE ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.
24. SUBMIT REINFORCING SHOP DETAIL PLANS FOR REVIEW. CONCRETE SHALL NOT BE PLACED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
25. SLOPE CONCRETE SLABS TO FLOOR DRAINS SHOWN ON ENGINEERING AND ARCHITECTURAL DRAWINGS.
26. SEE SPECIFICATION DIVISION 3 "CAST-IN-PLACE CONCRETE" FOR GENERAL REQUIREMENTS.
27. CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI318).
28. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.
29. THE CONTRACTOR SHALL NOT WELD REINFORCING STEEL WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
30. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A186.
31. WELDED WIRE FABRIC AT EXTERIOR EXPOSED SLABS SHALL BE COATED CONFORMING TO ASTM A775-81.
32. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. REINFORCING AT EXTERIOR EXPOSED CONCRETE SHALL BE EPOXY-COATED CONFORMING TO ASTM A775.
33. PROVIDE VAPOR BARRIER OF 8 MIL MINIMUM THICKNESS POLYETHYLENE FILM WITH FIBERGLASS REINFORCING ON APPROVED SUBGRADE FOR ALL SLABS ON GRADE.

STRUCTURAL STEEL

34. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATION.
35. ALL STRUCTURAL STEEL SHALL BE ASTM A36. ALL STRUCTURAL TUBING SHALL BE ASTM A500, GRADE B, COLD FORMED. EXTERIOR TUBES SHALL BE GALVANIZED.
36. ALL BEAMS SHALL BE FABRICATED WITH NATURAL CAMBER UP.
37. HIGH STRENGTH STEEL BOLTS SHALL BE ASTM A325. USE ONE HARDENED WASHER UNDER THE TURNED PORTION OF THE CONNECTION BOLT.
38. NO CONNECTION SHALL CONSIST OF LESS THAN TWO 3/4" BOLTS OR WELD DEVELOPING LESS THAN 10 KIPS.
39. ALL CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE SHEAR CONNECTIONS WITH HIGH STRENGTH BOLTS (FRICTION-TYPE).
40. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS FOR STRUCTURAL STEEL AND SHALL BE MADE IN THE SHOP. BURNING OF HOLES, OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD, WILL NOT BE PERMITTED EXCEPT BY WRITTEN PERMISSION FROM THE ENGINEER.
41. SIZES OF STRUCTURAL STEEL CANNOT BE VARIED FROM THOSE SHOWN ON THE DRAWINGS WITHOUT WRITTEN CONSENT OF THE ENGINEER.
42. TESTING OF WELDS SHALL BE AS FOLLOWS:
- 1. VISUAL INSPECTION SHALL BE MADE ON 100% OF ALL WELDS.
  - 2. MAGNETIC-PARTICLE TEST SHALL BE MADE ON 25% OF ALL FILLET WELDS.
  - 3. ULTRASONIC TESTS SHALL BE MADE ON 100% OF ALL FULL PENETRATION WELDS.
43. STRUCTURAL STEEL FABRICATOR SHALL SUBMIT THREE SETS OF SHOP DRAWING PLANS FOR REVIEW.
44. INTERIOR FRAMES MAY REQUIRE TEMPORARY BRACING DURING CONSTRUCTION.
45. ALL WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE.
46. CHECK PROPER USAGE OF DIRECT TENSION INDICATORS AT SLIP CRITICAL BOLTS WITH THE SPECIFICATIONS.
47. THE INDEPENDENT TESTING AGENCY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED.
48. THE CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIAL AND TEMPORARY STRUCTURAL STABILITY.
49. STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS FOR PROPER FABRICATION, FITTING UP, OR WELDING.
50. PRIME PAINT ALL STRUCTURAL STEEL EXCEPT THAT WHICH RECEIVES SPRAY-ON FIREPROOFING OR IS ENCASED IN CONCRETE. DO NOT PRIME PAINT STRUCTURAL STEEL AT CONNECTIONS.
51. ALL SHEAR CONNECTIONS SHALL BE DESIGNED TO SUSTAIN A LOAD AT LEAST EQUAL TO 1/2 THE TOTAL UNIFORM CAPACITY OF THE BEAM FOR NON-COMPOSITE BEAMS AND 3/4 THE TOTAL UNIFORM CAPACITY OF THE BEAM FOR COMPOSITE BEAMS.
52. FOR STEEL LINTELS, REFER TO ARCH. DRAWINGS.

STEEL JOISTS

53. FOR STEEL JOISTS, THE LATEST EDITION OF "THE STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS CONSTRUCTION". ADOPTED BY THE STEEL JOIST INSTITUTE WILL APPLY EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
54. JOIST CAMBER SHALL NOT EXCEED THE DEAD LOAD DEFLECTION. ALL CORRECTIVE WORK REQUIRED DUE TO EXCESSIVE CAMBER SHALL BE DONE BY THE CONTRACTOR AT HIS OWN EXPENSE.
55. PROVIDE SLOPED END BEARINGS FOR SLOPED JOISTS.
56. JOISTS BEARING ON STEEL BEAMS SHALL BE WELDED TO BEAMS WITH 1/4" FILLET WELDS 2" LONG AT EACH SIDE OF EACH END, UNLESS OTHERWISE NOTED.
57. USE CONTINUOUS HORIZONTAL OR DIAGONAL BRIDGING CONNECTED TO THE TOP AND BOTTOM CHORDS AS SHOWN ON THE DRAWINGS. SUBMIT BRIDGING CONNECTION DETAILS FOR APPROVAL.
58. WHERE THE BRIDGING OF JOISTS PARALLEL TO BEAMS OR WALLS CANNOT BE ANCHORED INTO THE BEAM OR WALL DURING THE CONSTRUCTION OF THE ROOF, SPECIAL TEMPORARY BRACING MUST BE PROVIDED BY SOME MEANS TO ADEQUATELY HOLD THE JOISTS IN PLACE DURING THE SETTING OF THE ROOF DECK.
59. ALL STEEL JOISTS SHALL RECEIVE ONE COAT OF PROTECTIVE PAINT (SEE SPECIFICATIONS).

METAL ROOF DECK

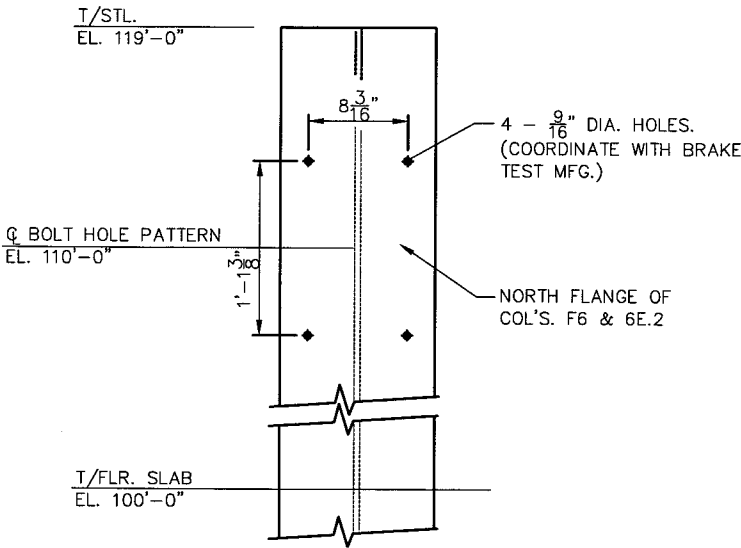
60. DESIGN OF DECK UNITS SHALL CONFORM TO REQUIREMENTS OF SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS OF THE AMERICAN IRON AND STEEL INSTITUTE, LATEST EDITION.
61. ALL METAL DECKING SHALL BE FABRICATED FROM STEEL TYPE ASTM 1-446, GRADE A OR EQUIVALENT HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI.
62. ALL ROOF METAL DECK SHALL BE ERECTED BY LAPPING ENDS OF SHEETS A MINIMUM OF 2 INCHES.
63. PRIOR TO START OF ERECTION OF STEEL DECK, A WELDING PROCEDURE SHALL BE ESTABLISHED FOR THE PLUG WELDING OF THE STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAGE USED. EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AS WITNESSED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER.
64. PROVIDE CONTINUOUS SHEET METAL CLOSURES AT ALL SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURES AT ALL DECK ENDS. PROVIDE STEEL ANGLE OR BENT STEEL PLATE CLOSURES AS REQUIRED BY DRAWINGS.
65. ALL METAL DECKS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD DETAILS AND SPECIFICATIONS. ATTACHMENT SHALL BE MADE BY WELDING.
66. DECKING SHALL BE ATTACHED TO EACH JOIST AND/OR STRUCTURAL BEAMS WITH 36/4 PATTERN USING 5/8" DIA. PUDDLE WELDS. DECKING SHALL BE SIDE LAPPED WITH #10 TEK SCREWS @ 12" O.C.
67. METAL ROOF DECKING SHALL BE 1-1/2" THICK, 20 GAUGE, TYPE B, AS MANUFACTURED BY VULCRAFT, OR APPROVED EQUAL. ALL DECKS SHALL BE GALVANIZED.

MISCELLANEOUS

68. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
69. ALL ITEMS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.

DESIGN AND LOADING

70. ALLOWABLE UNIT STRESSES ARE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE WISCONSIN COMM. 53/2000.
71. LIVE LOADS IN POUNDS PER SQUARE FOOT ARE AS FOLLOWS:
- A. ROOF (SNOW): 30 + DRIFT (KENOSHA COUNTY)
  - B. MECHANICAL: ACTUAL WEIGHTS
  - C. WIND: 20 (BELOW 50' HIGH)



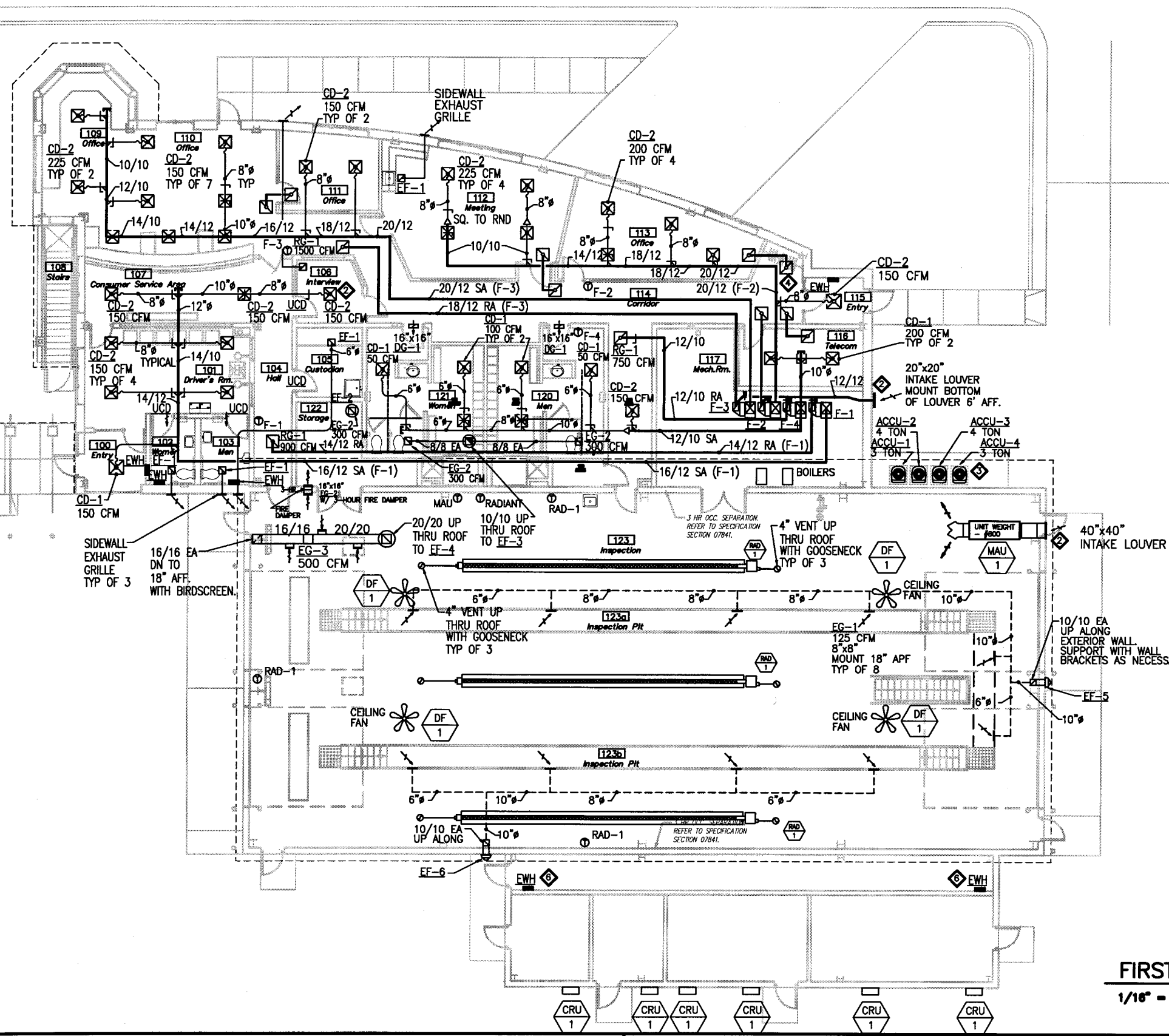
1 ELEVATION

STANDARD ABBREVIATIONS

BM	-	BEAM
B/	-	BOTTOM OF
B.T. PIT	-	BRAKE TEST PIT
CMU	-	CONCRETE MASONRY UNIT
CTRS.	-	CENTERS
COL.	-	COLUMN
DIM.	-	DIMENSION
E.W.	-	EACH WAY
EL.	-	ELEVATION
(E)	-	EPOXY
FTG.	-	FOOTING
MFG.	-	MANUFACTURING
O.C.	-	ON CENTER
PED.	-	PEDESTAL
RAD.	-	RADIUS
REINF.	-	REINFORCEMENT
SC	-	SLIP CRITICAL
S.O.G.	-	SLAB ON GRADE
SPC.	-	SPACES
SQ.	-	SQUARE
T&B	-	TOP AND BOTTOM
T/	-	TOP OF
TYP.	-	TYPICAL
U.N.O.	-	UNLESS NOTED OTHERWISE
W.W.F.	-	WELDED WIRE FABRIC

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
KENOSHA S&W FACILITY, NO. 21			
CONST. SPEC.	WI Comm 53	DRAWN BY BLM	PLANS CK'D. JWC
GENERAL STRUCTURE NOTES & MISC. DETAILS			SHEET S601

SCALE = K:\PROJECTS\5116\PLANS\STRUCT\S601  
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### HVAC PLAN KEYED NOTES:

1. HVAC CONTRACTOR TO PROVIDE ELECTRIC WALL HEATER, SIMILAR TO QMARK 7.5 KW WITH LINE VOLTAGE THERMOSTAT.
2. PROVIDE INTAKE AND EXHAUST LOUVERS SIMILAR TO GREENHECK TYPE.
3. HVAC CONTRACTOR TO PROVIDE MOUNTING PAD FOR AIR COOLED CONDENSING UNITS. SEE MANUFACTURERS RECOMMENDATION OF SIZE.
4. TYPICAL TRANSFER DUCTS TO BE 14/12 LINED DUCTWORK, UNLESS OTHERWISE NOTED.
5. CEILING DIFFUSER TO BE STEEL CONSTRUCTION AND VANDAL RESISTANT.
6. PROVIDE SURFACE MOUNTED ELECTRIC WALL HEATER.
7. PROVIDE LP GAS-FIRED RADIANT HEATERS WITH THERMOSTAT AND ACCESSORIES COMPLETE. LOCATE RADIANT HEATERS OVER TRENCH DRAIN AS A REFERENCE POINT.

### HVAC PLAN NOTES:

1. HVAC CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING HVAC EQUIPMENT, ACCESSORIES SHOWN ON PLANS AND NOT SHOWN FOR A COMPLETE SYSTEM.
2. HVAC CONTRACTOR TO PROVIDE COMB. AIR AND VENT FOR FURNACE. ROUTE THRU WALL AND PROVIDE NECESSARY WEATHERPROOF SEALING THRU WALL.
3. HVAC CONTRACTOR TO PROVIDE 2-POSITION MOTORIZED DAMPER OPERATOR FOR OUTSIDE AIR. DAMPER TO BE TIED IN WITH FURNACE SO THAT WHEN FURNACE IS OPERATING THE DAMPER SHALL BE OPEN.
4. THE LAYOUT OF DUCT IS ONLY FOR SCHEMATIC PURPOSES. HVAC CONTRACTOR TO COORDINATE CLEARANCES WITH BUILDING TRADES AND STRUCTURE TO MAINTAIN CEILING HEIGHT OF 9'-0" AFF. MINIMAL AMOUNT OF DUCT TRANSITIONS SHOULD BE MAINTAINED WHERE APPLICABLE.
5. HVAC CONTRACTOR TO COORDINATE GRILLES, REGISTER, AND DIFFUSERS WITH CEILING FINISH SCHEDULE.
6. ALL GAS FIRED HVAC EQUIPMENT SHALL BE SETUP FOR LP GAS.

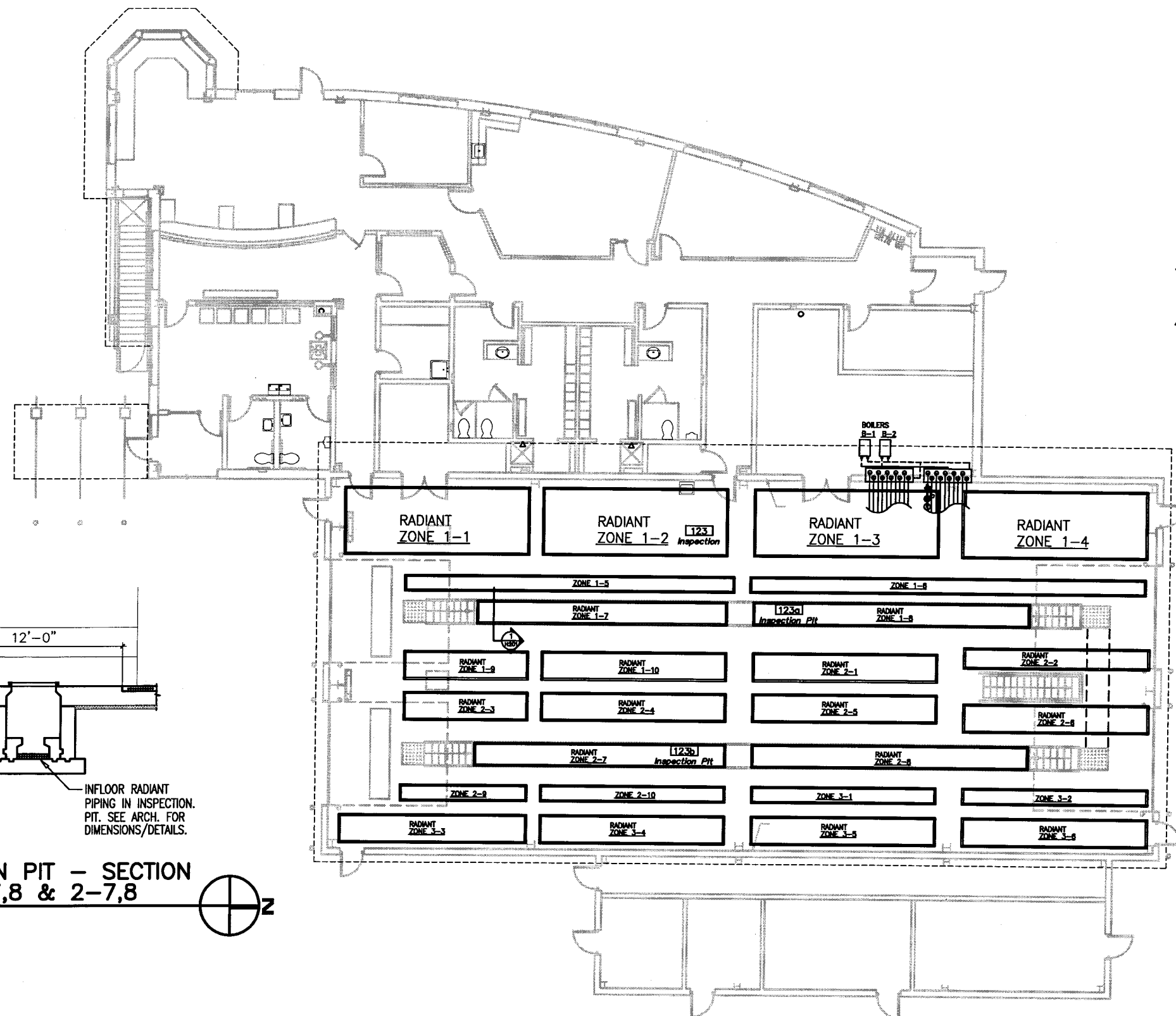
FIRST FLOOR - HVAC

1/16" = 1'-0"



PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI			FIRST FLOOR HVAC PLAN		DATE: 1/1/02
STATE PROJECT NUMBER: 1032-08-70 (c)	HWY: INTERSTATE 94 AT ML	COUNTY: KENOSHA	SAFETY & WEIGHT FACILITY NO. 21	SCALE, FEET	SHEET NO: 165 OF
					DWG. H101





# HVAC RADIANT PIPING PLAN NOTES:

1. HVAC CONTRACTOR IS TO PROVIDE AN IN-FLOOR RADIANT PIPING SYSTEM. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND INSTALLATION GUIDELINES.
2. RADIANT PIPING SYSTEM IS COMPRISED OF TWO HOT WATER BOILERS WITH ONE PRIMARY LOOP CIRCULATING PUMP (P-1), A SYSTEM CIRCULATING PUMP (P-2), AND A INJECTION PUMP (P-3). TWO MANIFOLDS WITH 10 CIRCUITS FOR EACH MANIFOLD. THE RADIANT PIPE IS TO BE A PEXa TYPE POLYETHYLENE TUBING. THERE IS AS SHOWN ON THE PLAN (16) RADIANT CIRCUITS. THE CIRCUITS SHOULD BE LAID OUT ON 12" CENTERS. SEE DETAILS THIS SHEET FOR IN FLOOR DIRECTIONS.
3. THE RADIANT FLOOR PIPING SYSTEM HAS BEEN LAID OUT BASED ON THE MANUFACTURER "REHAU". HVAC CONTRACTOR TO PROVIDE PER REHAU MANUFACTURERS INSTALLATION INSTRUCTIONS OR PER APPROVED EQUAL.
4. THE RADIANT FLOOR PIPING SHALL BE ONLY 200 FEET PER CIRCUIT. HVAC CONTRACTOR TO PROVIDE THE PIPE MANIFOLD TO COVER ALL CIRCUITS WITH PROVISIONS FOR 4 ADDITIONAL CIRCUITS FOR FUTURE.

## INSPECTION PIT - SECTION ZONE 1-7,8 & 2-7,8

1/8" = 1'-0"



## FIRST FLOOR - HVAC PIPING

1/16" = 1'-0"



PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c)

HWY: INTERSTATE 94 AT ML

COUNTY: KENOSHA

## FIRST FLOOR HVAC PIPING PLAN

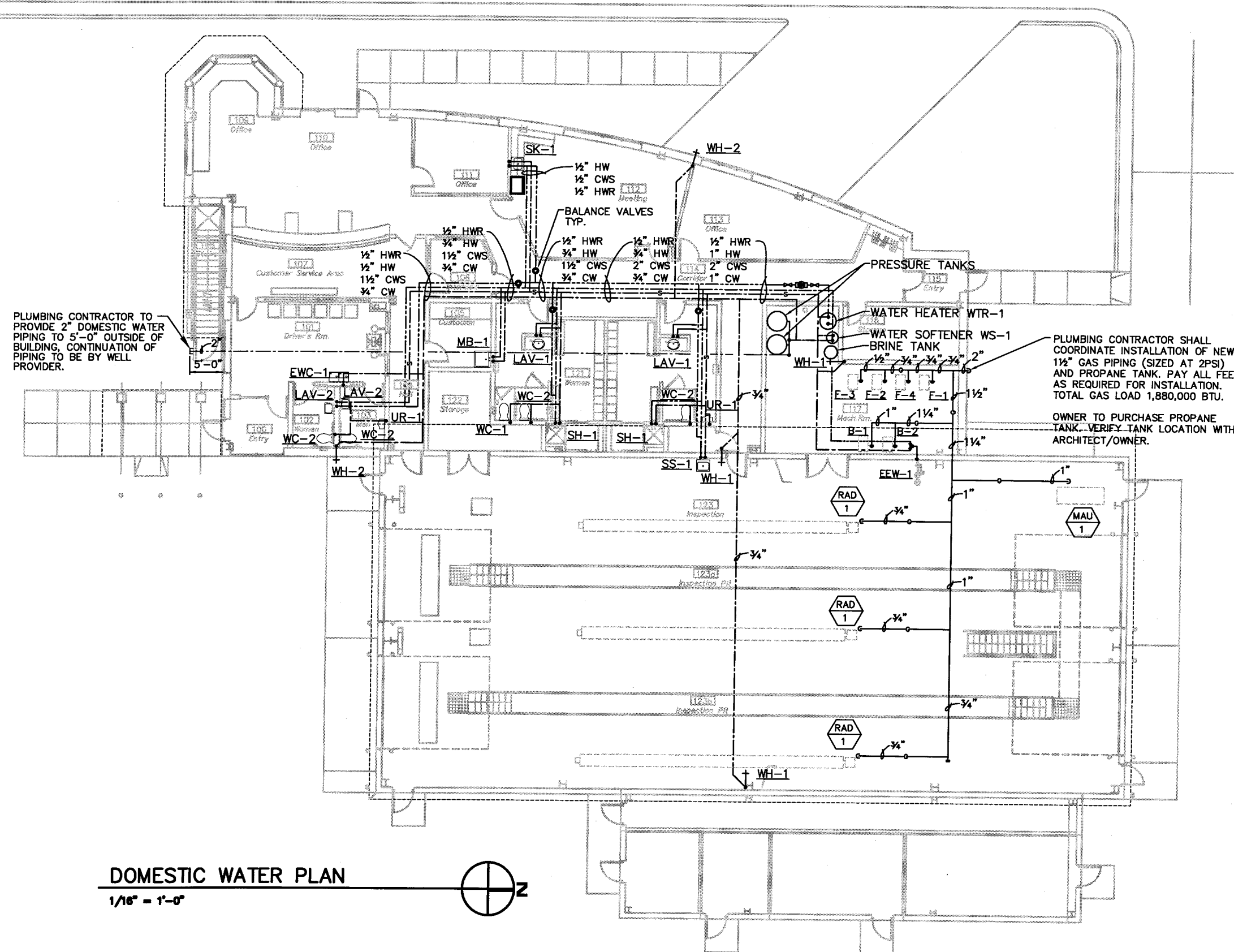
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

SHEET NO: 166 OF

DWG. H201



### PLUMBING PLAN NOTES:

1. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPING, FITTINGS AND VALVES AS REQUIRED FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM THAT MEETS ALL STATE AND LOCAL CODES.
2. PLUMBING CONTRACTOR TO FURNISH AND INSTALL ACCESS PANELS WHERE NECESSARY TO ACCESS SHUT-OFF VALVES.
3. PLUMBING CONTRACTOR SHALL INSTALL ALL PIPING AND FIXTURES WITH THE COORDINATION OF ALL OTHER TRADES.
4. REFER TO RISER DIAGRAMS SHEET P201 FOR MORE WATER PIPE SIZES.
5. PLUMBING CONTRACTOR TO PROVIDE GAS SHUT-OFF VALVES AT ALL EQUIPMENT CONNECTIONS AND PRESSURE REGULATING VALVES AS REQUIRED. GAS PIPING IS SIZED AT 2 PSI. COORDINATE GAS CONNECTION LOCATIONS WITH HVAC CONTRACTOR.
6. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL FURNACE CONDENSATE PIPING. PIPE TO NEAREST FD-1.
7. PLUMBING CONTRACTOR TO RUN ALL WATER, VENT AND GAS PIPING AS TIGHT TO CEILING STRUCTURE AS POSSIBLE IN INSPECTION AREA. SEE ARCHITECTURAL SECTION 1/A301.

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

### DOMESTIC WATER PLAN

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

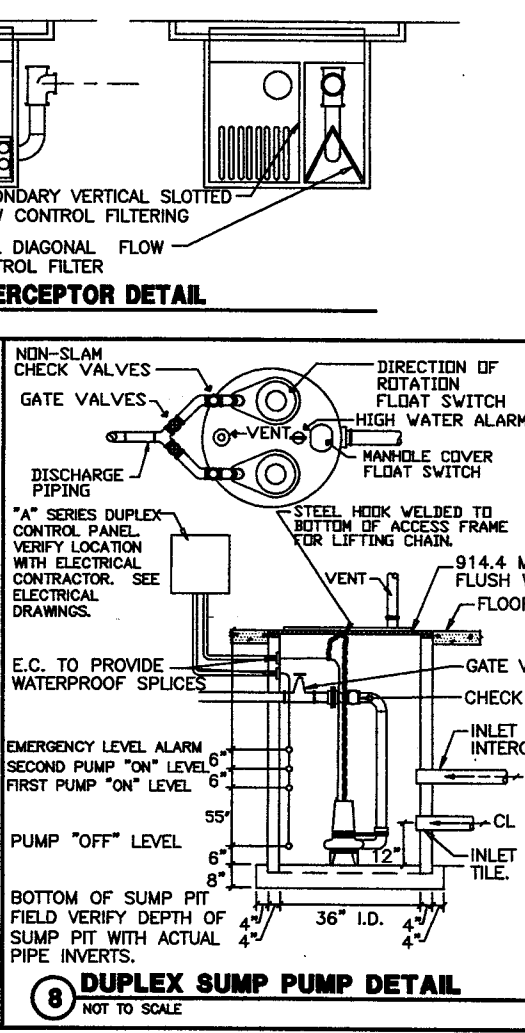
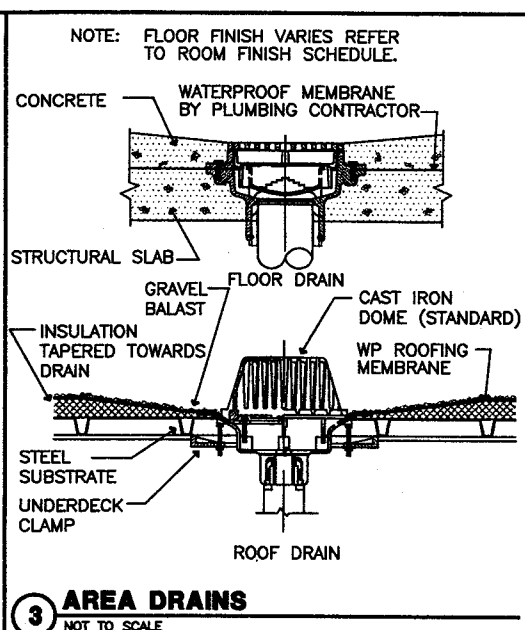
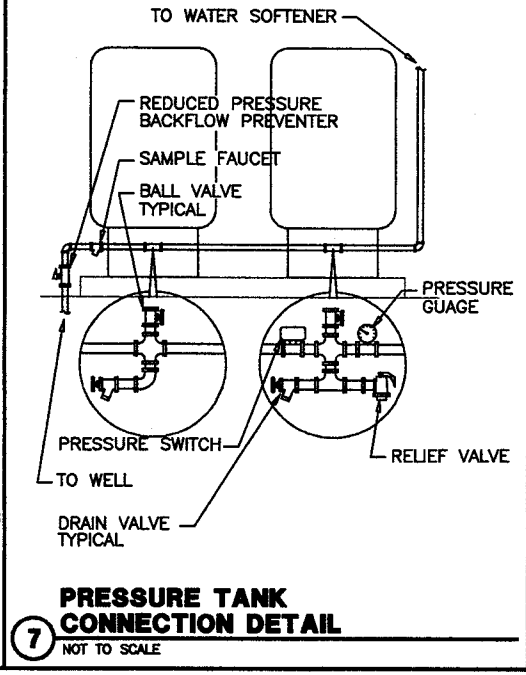
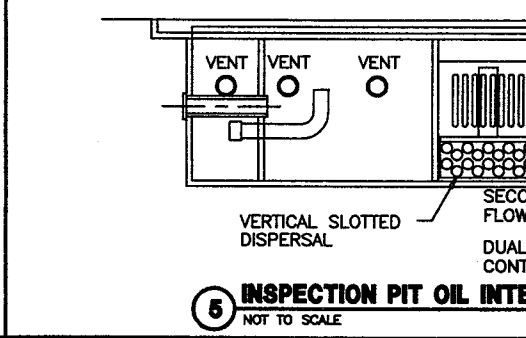
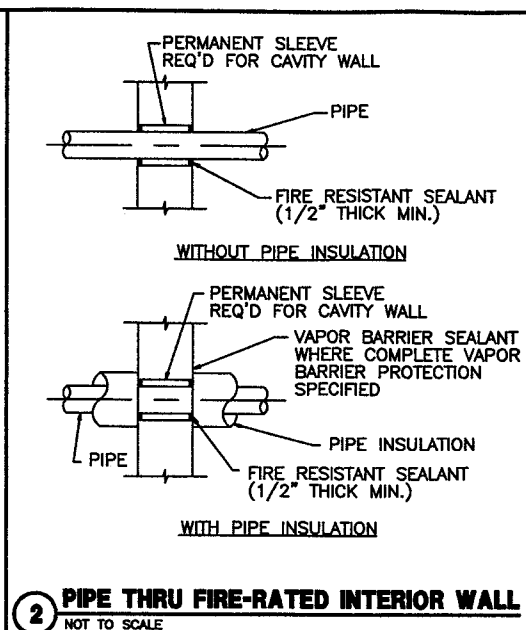
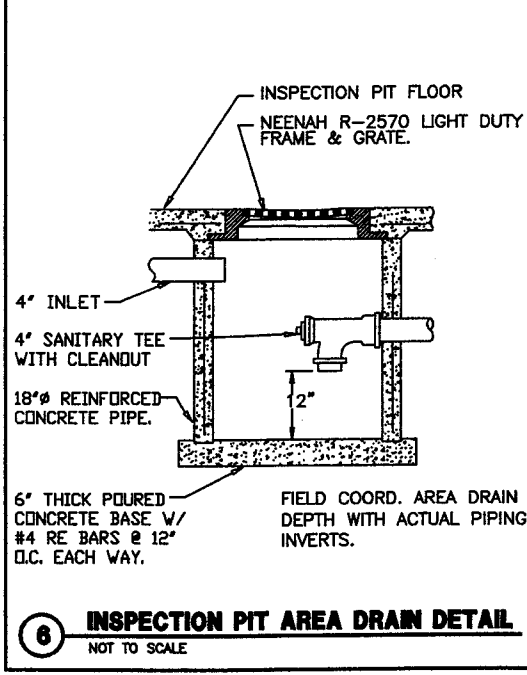
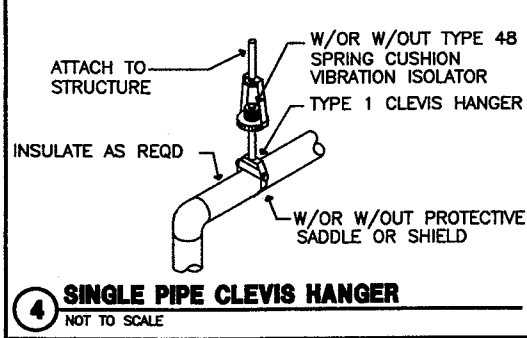
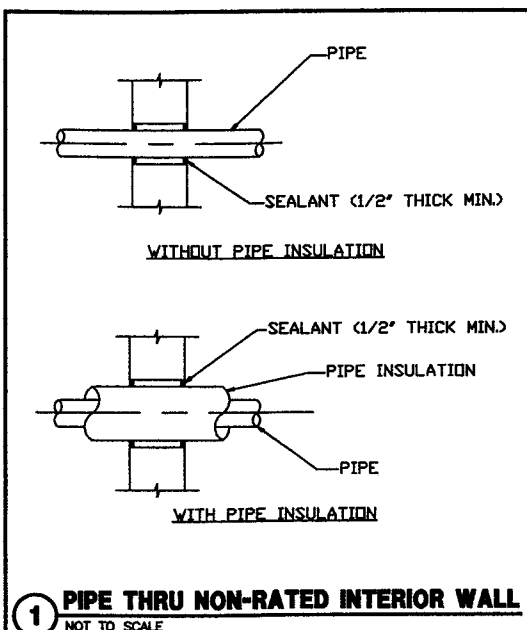
DATE: 1/1/02

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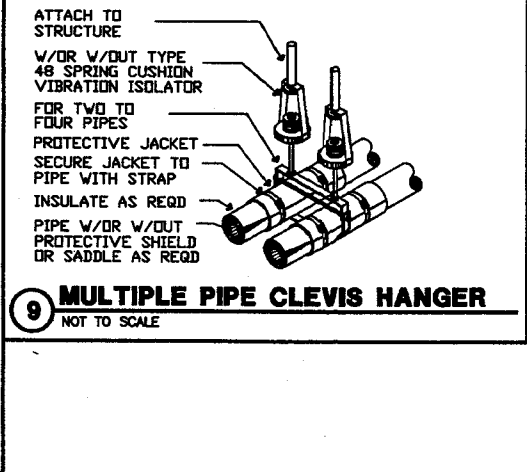






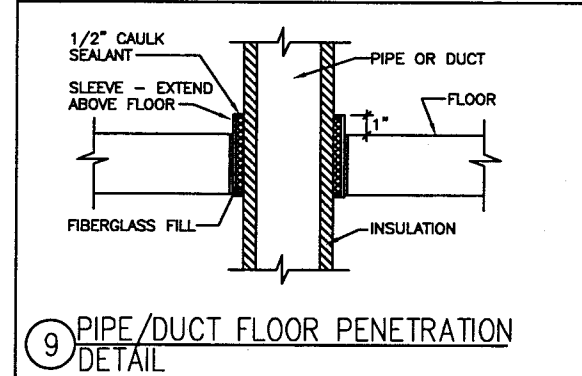
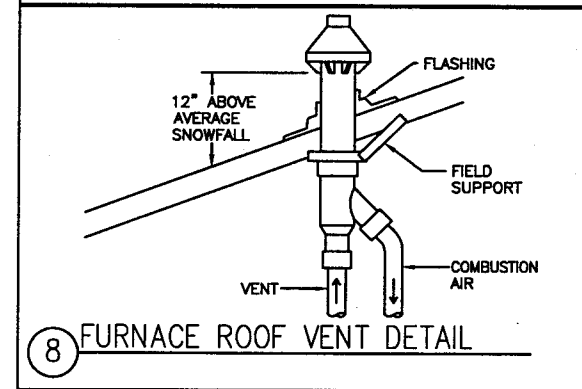
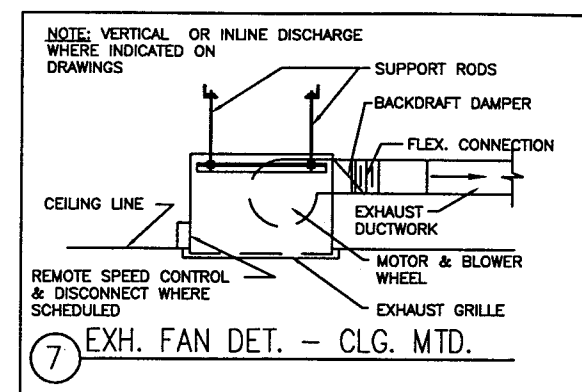
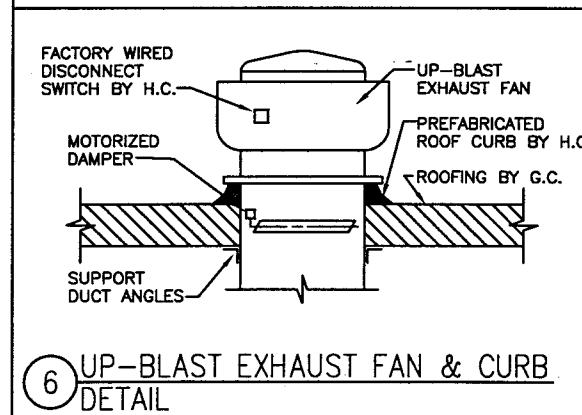
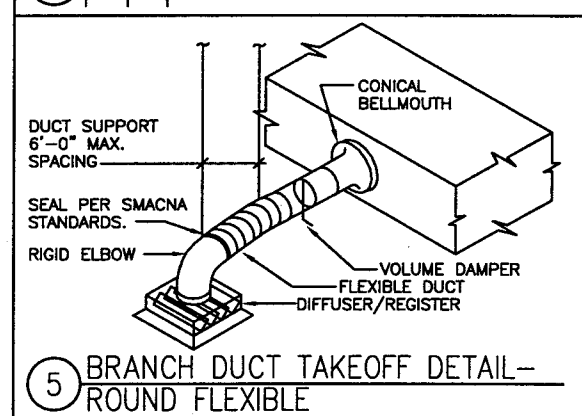
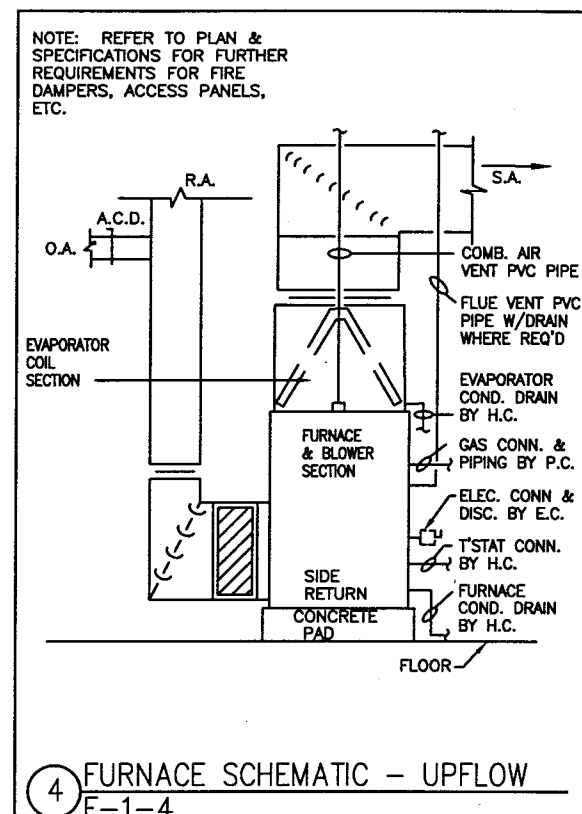
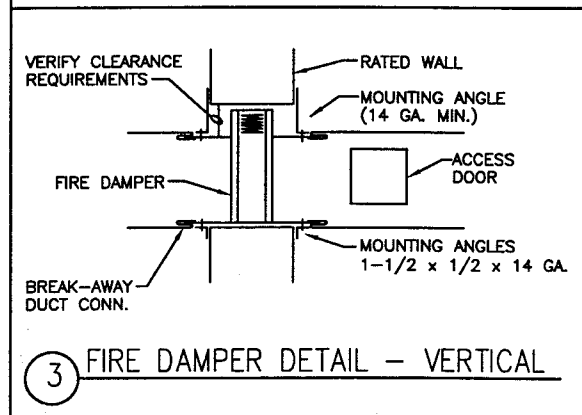
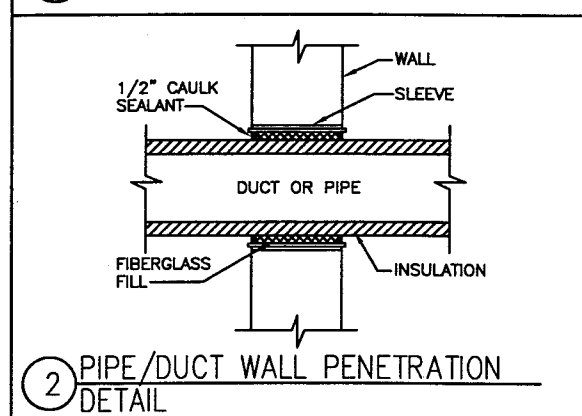
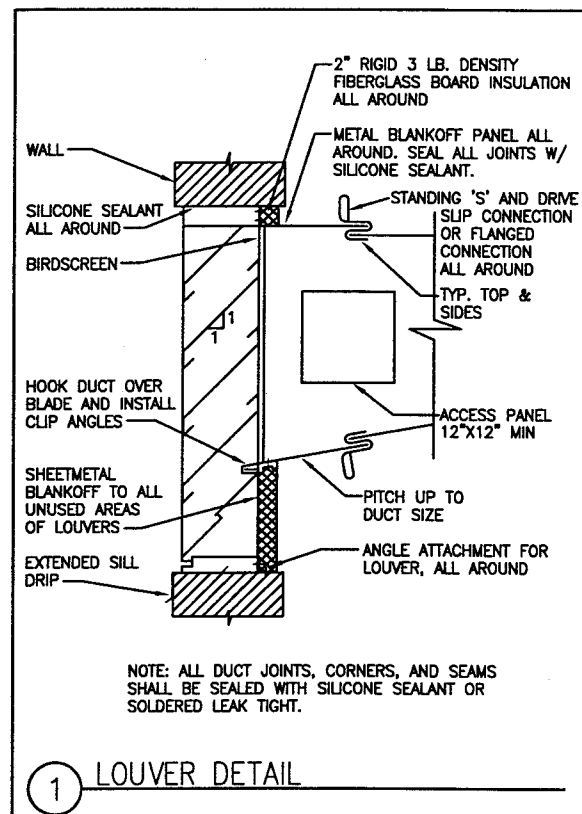
PLUMBING FIXTURES AND EQUIPMENT PROVIDED BY PLUMBING CONTRACTOR					
PL	FIXTURE	WASTE	VENT	CW	HW
WC-1	WATER CLOSET	4"	1 1/2"	1 1/2"	---
WC-2	WATER CLOSET (FOR ADA)	4"	1 1/2"	1 1/2"	---
UR-1	URINAL	2"	1 1/2"	3/4"	---
LAV-1	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1 1/2"
LAV-2	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1 1/2"
EW-1	ELECTRIC WATER COOLER	2"	1 1/2"	1 1/2"	---
SK-1	SINK	2"	1 1/2"	1 1/2"	1 1/2"
SS-1	SERVICE SINK	3"	1 1/2"	3/4"	3/4"
SH-1	SHOWER	3"	1 1/2"	3/4"	3/4"
FD-1	FLOOR DRAIN	3"	1 1/2"	---	---
FD-2	FLOOR DRAIN	4"	1 1/2"	---	---
MB-1	MOP BASIN	3"	1 1/2"	1 1/2"	1 1/2"
WH-1	WALL HYDRANT	---	---	3/4"	---
WH-2	WALL HYDRANT	---	---	3/4"	---
WTR-1	WATER HEATER	---	---	2"	2"
WS-1	WATER SOFTNER	---	---	2"	---
SP-1	DUPLEX SUMP PUMP	4"	1 1/2"	---	---
EEW-1	EMERGENCY EYE WASH	---	---	1 1/2"	1 1/2"
TD-1	TRENCH DRAIN	4"	1 1/2"	---	---
RD-1	ROOF DRAIN	5"	---	---	---

- DUPLEX SUMP PUMP DETAIL NOTES:**
- (2) HYDROMATIC SUBMERSIBLE PUMPS. SEE FIXTURE SCHEDULE FOR SIZES AND CAPACITIES.
  - DUPLEX CONTROL PANEL: NEMA 1; REMOTE MOUNTED; P.C. TO PROVIDE. COORDINATE WITH ELECTRICAL CONTRACTOR.
  - HIGH WATER ALARM TO BE CONNECTED TO BUILDING FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
  - (4) SUSPENDED FLOAT SWITCHES WITH RELAYS & CABLES, LENGTH AS REQUIRED PER MANUFACTURERS RECOMMENDATION.
  - (1) DUPLEX BASIN COVER ASSEMBLY, 3/8" THICK FLUSH MOUNTED TREAD PLATE STEEL ACCESS LIDS (BITUMASTIC COATING ON BOTTOM AND SECURING BOLTS. "L" BRACKETS FOR SUSPENDING FLOAT SWITCHES.
  - BASIN WALL SHALL BE MINIMUM 4" THICK POURED CONCRETE OR PRECAST SECTIONS. BASE SHALL BE POURED CONCRETE WITH #4 RE-BARS AT 12" O.C. EACH WAY. ENTIRE BASIN SHALL BE COMPLETELY WATERPROOFED.
  - RUN VENT AS TIGHT TO WALL AS POSSIBLE.



PLUMBING SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
---	WASTE BELOW SLAB
ST	BELOW GRADE STORM PIPING
---	WASTE ABOVE SLAB
W	WATER SERVICE
---	COLD WATER SUPPLY
---	HOT WATER SUPPLY
---	HOT WATER RECIRCULATION
---	VENT
G	GAS LINE
o	PIPE UP
o	PIPE DOWN
	CLEAN OUT
+	BALL VALVE
+	CHECK VALVE
+	UNION
+	GAS VALVE
FCO	FLOOR CLEAN OUT
YCO	YARD CLEAN OUT
VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN
OSD	OPEN SITE DRAIN
GC	GENERAL CONTRACTOR
PC	PLUMBING CONTRACTOR
HC	HVAC CONTRACTOR
CW	DOMESTIC COLD WATER
HWS	DOMESTIC HOT WATER SOFT
CVS	DOMESTIC COLD WATER SOFT
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
GC	GENERAL CONTRACTOR
PC	PLUMBING CONTRACTOR
HC	HVAC CONTRACTOR
EC	ELECTRICAL CONTRACTOR





HVAC SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	SQUARE/RECTANGULAR SUPPLY DIFFUSER, GRILLE OR REGISTER-HORIZONTAL MOUNT
	SQUARE/RECTANGULAR RETURN/EXHAUST REGISTER OR GRILLE-HORIZONTAL MOUNT
	SUPPLY REGISTER OR GRILLE VERT. MOUNT
	RETURN/EXHAUST REGISTER OR GRILLE VERT. MOUNT
	VERTICAL SUPPLY DUCT UP
	VERTICAL RETURN/EXHAUST DUCT UP
	VERTICAL SUPPLY DUCT DOWN
	VERTICAL RETURN/EXHAUST DUCT DOWN
	VOLUME DAMPER
	AUTOMATIC CONTROL DAMPER
	FLEXIBLE CONNECTION
	ROUND/FLEXIBLE DUCT
	ROUND RIGID DUCT
	SQUARE ELBOW W/TURNING VANES
	DUCT RISE(R) OR DROP(D)
	DIFFUSER/REGISTER/GRILLE TYPE CFM
	BRANCH TAKEOFF
	THERMOSTAT
EQUIPMENT SYMBOLS	
AC	AIR CONDITIONING UNIT
CU	CONDENSING UNIT
EF	EXHAUST FAN
F	FURNACE
L	LOUVER
ABBREVIATIONS	
ACD	AUTOMATIC CONTROL DAMPER
EA	EXHAUST AIR
FA	FRESH AIR
RA	RETURN AIR
SA	SUPPLY AIR
AF	ABOVE FINISHED FLOOR
BD	BOTTOM OF DUCT
OD	OPEN END DUCT
R	ROUND DUCT DIAMETER
TG	TRANSFER GRILLE
UC	UNDER CUT OF DOOR (BY G.C.)
UC	UNDER CUT OF DOOR (BY G.C.)
DG	DOOR GRILLE (INSTALLED BY G.C.)
H.C.	HEATING CONTRACTOR
G.C.	GENERAL CONTRACTOR

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

HVAC - DETAILS

SAFETY & WEIGHT FACILITY NO. 21

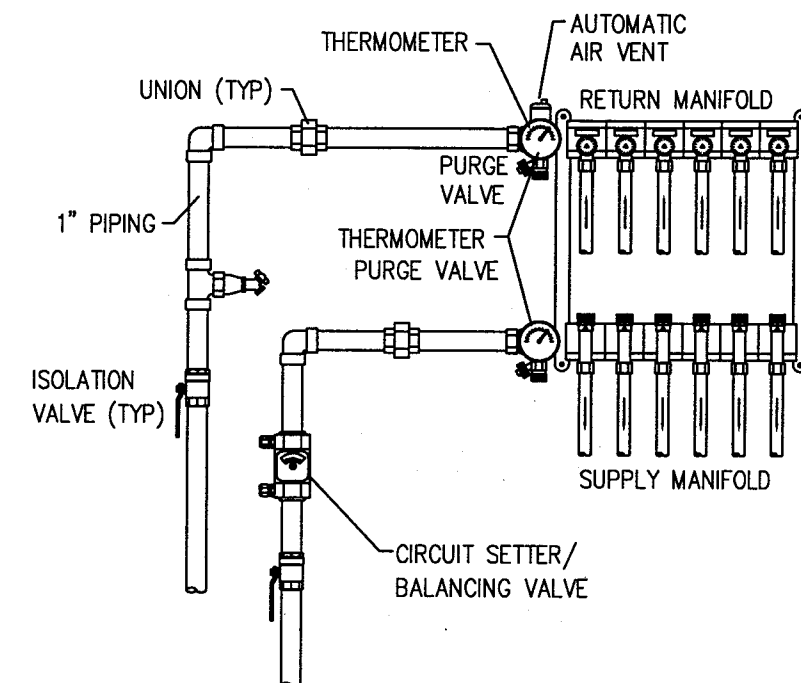
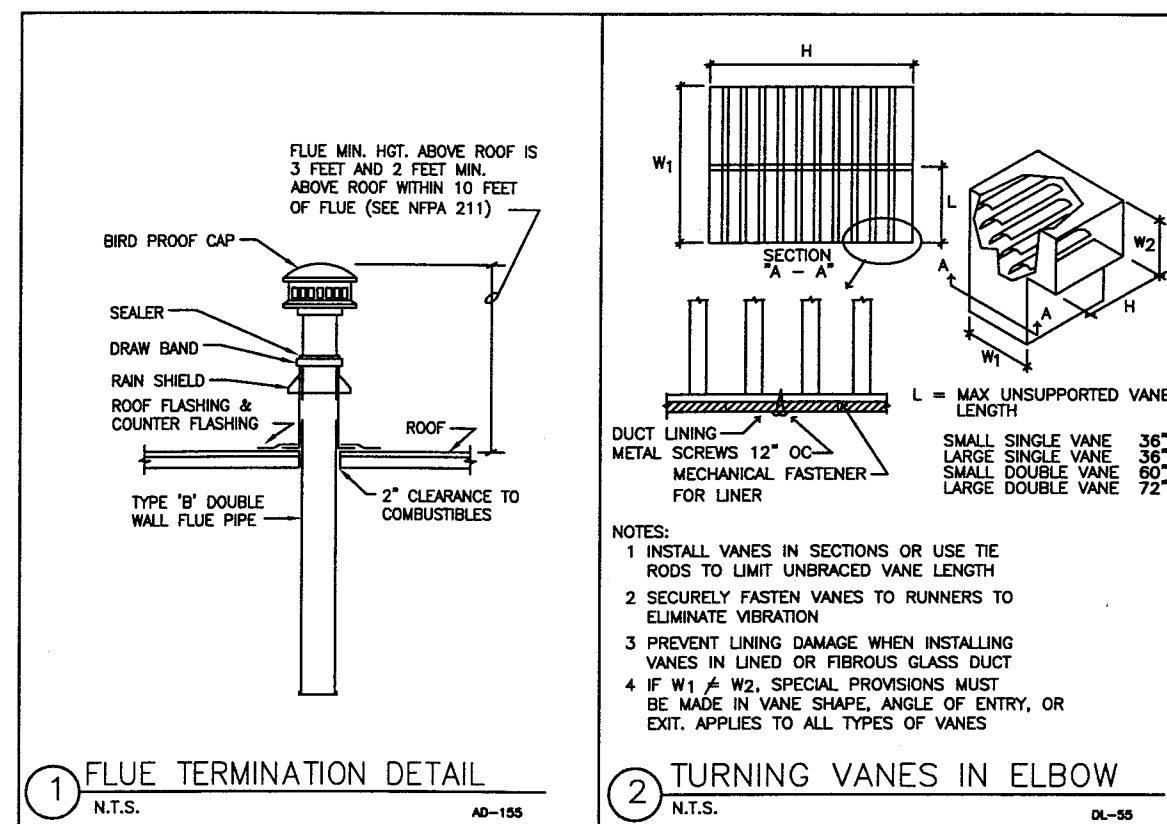
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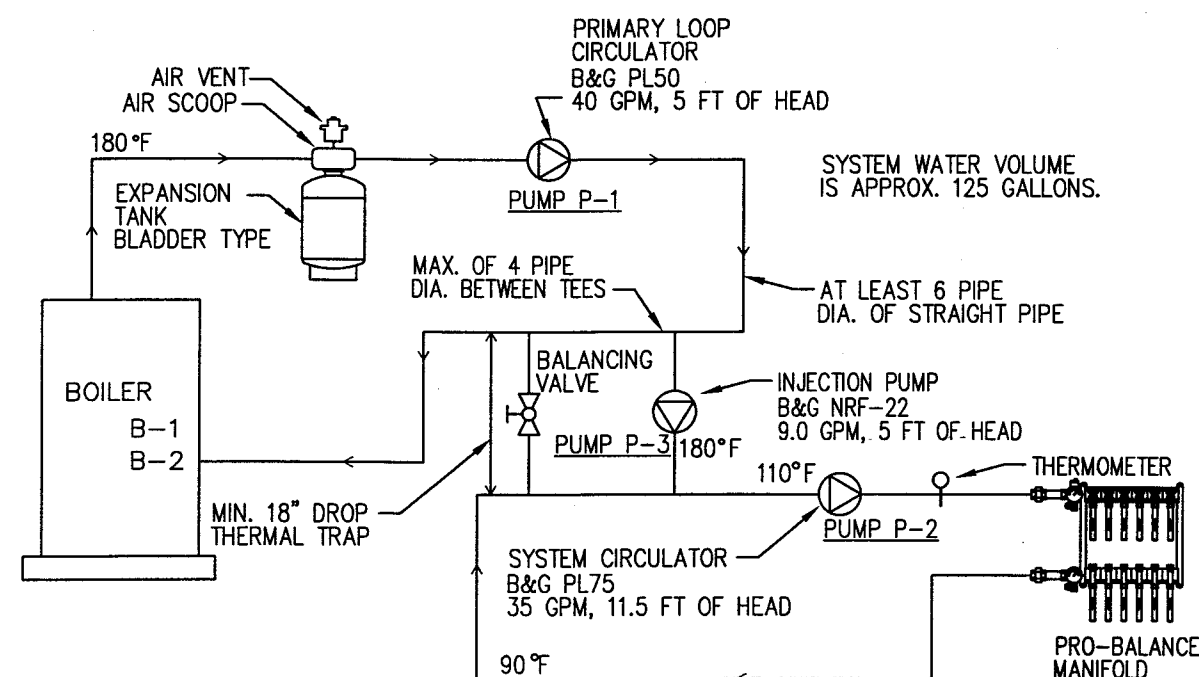
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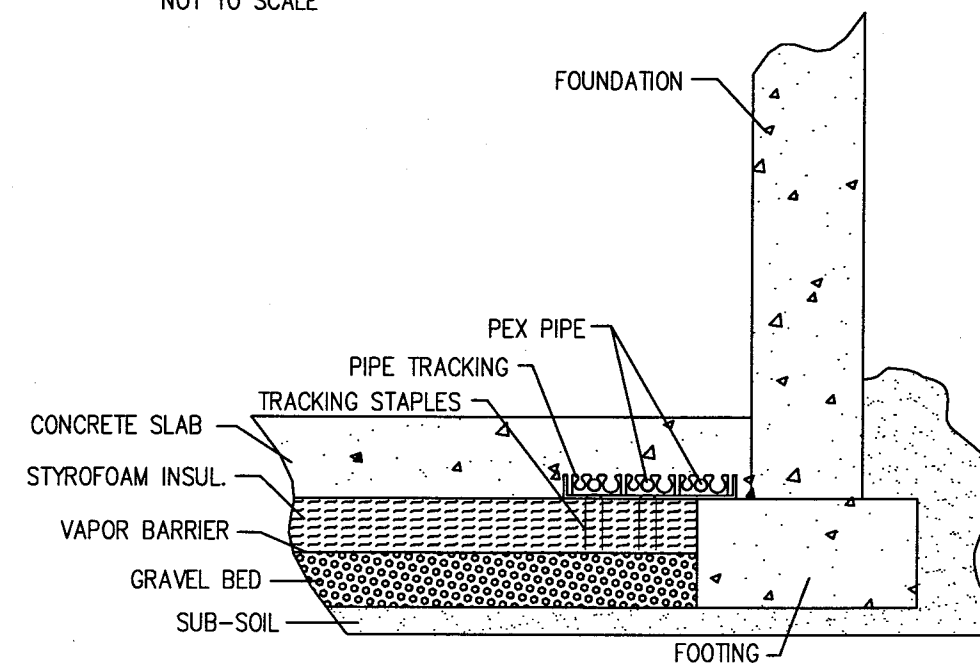
DWG. H501



MANIFOLD PIPING & ACC'S DETAIL  
NOT TO SCALE



BOILER SCHEMATIC - INJECTION SYSTEM  
NOT TO SCALE



"WET" INSTALLATION FOR SLAB ON GRADE TYPICAL DETAIL  
NOT TO SCALE



FURNACE UNIT SCHEDULE				
GENERAL: TAG	F-1	F-2	F-3	F-4
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NO.	58MXA060-16	58MXA080-16	58MXA080-16	58MXA060-16
TYPE	UPFLOW SEALED COMB.	UPFLOW SEALED COMB.	UPFLOW SEALED COMB.	UPFLOW SEALED COMB.
FAN: CFM	1500	1700	1700	1500
ESP ("WG)	0.40	0.40	0.40	0.40
SPEED	MED-HIGH	MED-HIGH	MED-HIGH	MED-HIGH
MIN. FA CFM (%)	180	300	300	180
DE COIL: MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NO.	CK5BXA036	CK5BXA048	CK5BXA048	CK5BXA036
COIL APD ("WG)	0.30	0.30	0.30	0.30
COOLING CAP. (MBH)	36.0	48.0	48.0	36.0
SENSIBLE CAP. (MBH)	29.2	37.1	37.1	29.2
EAT DB/WB (deg F)	80/67	80/67	80/67	80/67
LAT DB/WB (deg F)	37.2/35.3	37.2/35.3	37.2/35.3	37.2/35.3
BONNET: INPUT (MBH)	60.0	80.0	80.0	60.0
OUTPUT (MBH)	55.2	75.0	75.0	55.2
EAT DB (deg F)	56.4	56.4	56.4	56.4
LAT DB (deg F)	108.1	108.1	108.1	108.1
FILTER SECTION: TYPE	HIGH EFF. PLEATED	HIGH EFF. PLEATED	HIGH EFF. PLEATED	HIGH EFF. PLEATED
QUANTITY	1	1	1	1
SIZES	16x25x1	20x25x1	20x25x1	16x25x1
FILTER FRAME	EXTERNAL	EXTERNAL	EXTERNAL	EXTERNAL
ELECTRICAL: HORSEPOWER	1/2	1/2	1/2	1/2
VOLTAGE/PHASE	115/1	115/1	115/1	115/1
MAX UNIT AMPS	14.1	14.1	14.1	14.1
MAX FUSE SIZE	20	20	20	20
REMARKS:	(1)(2)(3)	(1)(2)(3)	(1)(2)(3)	(1)(2)(3)
(1) FILTER UNIT SHALL BE A THROWAWAY TYPE FILTER. (2) PROVIDE CONCENTRIC ROOF/WALL VENT (3) PROVIDE AND INSTALL 7-DAY PROGRAMMABLE THERMOSTAT.				

DIFFUSERS REGISTERS AND GRILLES SCHEDULE								
TAG	MANUFACTURER	MODEL #	SIZE		MOUNTING	SERVICE	CFM	REMARKS
			NECK (WxH)	FACE (L)				
CD-1	METAL-AIRE	—	6" DIA.	---	SEE ARCH	SUPPLY	0-100	(1)(3) 4-WAY CD
CD-2	METAL-AIRE	—	8" DIA.	--	SEE ARCH	SUPPLY	101-250	(1)(3) 4-WAY CD
CD-3	METAL-AIRE	—	10" DIA.	--	SEE ARCH	SUPPLY	251-450	(1)(3) 4-WAY CD
RG-1	METAL-AIRE	—	22"x22"	--	SEE ARCH	RETURN	900-1500	(2)(3) RETURN GRILLE
TG-1	METAL-AIRE	—	22"x22"	---	SEE ARCH	TRANSFER	—	(2) TRANSFER GRILLE
EG-1	METAL-AIRE	—	—	8"x8"	WALL	EXHAUST	125	(3) EXHAUST GRILLE
EG-2	METAL-AIRE	—	—	8"x8"	SURFACE	EXHAUST	300	(3) EXHAUST GRILLE
EG-2	METAL-AIRE	—	—	8"x8"	DUCT	EXHAUST	500	(3) EXHAUST GRILLE
DG-1	METAL-AIRE	—		16"x16"	DOOR	TRANSFER	500	DOOR GRILLE
DG-2	METAL-AIRE	—		16"x16"	DOOR	TRANSFER	500	W/ FIRE DAMPER
(1) WHITE FINISH. (2) WHITE FACE PANEL WITH BLACK INTERIOR. (3) OPPOSED BLADE DAMPER. NOTE: EG-2 — PROVIDE 3-HOUR FIRE DAMPER.  CD = CEILING DIFFUSER                      RG = RETURN GRILLE                      DG = DOOR GRILLE								

LOUVER SCHEDULE								
<u>TAG</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>TYPE</u>	<u>METAL</u>	<u>LOUVER DEPTH x W x HT</u>	<u>FREE AREA S.F.</u>	<u>SERVICE</u>	<u>REMARKS</u>
L-1	GREENHECK	ESD-403	STAT.	EXT. ALUM.	4" x 20" x 20"	1.15	FRESH AIR	(1)
L-2	GREENHECK	ESD-403	STAT.	EXT. ALUM.	4" x 40" x 40"	5.33	FRESH AIR	(1)
REMARKS: (1) COLOR SELECTION BY ARCHITECT.								

ELECTRIC HEAT SCHEDULE									
TAG	MANUFACTURER	MODEL	TYPE	SIZE HTxWxDPTH	WATTS	CAP. BTU/HR	ELECTRICAL VOLTS/PHASE	AMPS	REMARKS
EWB-1	Q-MARK	AWH-4208	RECESSED WALL HEATER	14"x18"x4"	1500	5412	208/1	10.0	(1)(2)
EUH-1	Q-MARK	MUH-10-81	UNIT HEATER	19"x21"x7"	10k	34100	208/3	48.0	(1)(2)
(1) INTEGRAL THERMOST (TAMPERPROOF). (2) DISCONNECT SWITCH @ UNIT.									

LP GAS-FIRED RADIANT TUBE HEATING SYSTEM								
TAG	MANUFACTURER	MODEL	TYPE	SIZE HTxWxDPTH	CAP. BTU/HR	ELECTRICAL VOLTS/PHASE	AMPS	REMARKS
RAD-1	STERLING	SLR-100-40	INFRARED RADIANT HEATER	14"x18"x4"	100,000	120/1	5.0	(1)(2)
(1) THERMOST (TAMPERPROOF) WITH INSULATED SUB-BASE. (2) DISCONNECT SWITCH @ UNIT.								

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

HVAC - SCHEDULES

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET 0

DATE: 1/1/02

SHEET NO: 173 OF

DWG. H601

AIR COOLED COND. UNIT SCHEDULE			
TAG	ACCU-1,4	ACCU-2,3	
MANUFACTURER	CARRIER	CARRIER	
MODEL NO.	38TKB036	38TKB048	
REFRIG. TYPE	R-22	R-22	
COOLING CAP BTU/HR	36,000	48,000	
AMBIENT TEMP. F	95	95	
SEER	10.0	10.0	
COND. DISCHARGE	VERTICAL	VERTICAL	
REF. LINE SIZE RS	7/8"	7/8"	
RL	3/8"	3/8"	
ELECTRICAL: VOLTAGE/PHASE	208/1	208/1	
FAN FLA	1.4	1.4	
MIN. CKT AMP	31.0	31.0	
MOCP AMPS	50	50	
SERVES	F-1,4	F-2,3	
REMARKS:			
NOTE: ALL LINE VOLTAGE WIRING BY E.C. PROVIDE NECESSARY PADS FOR SETTING OF UNIT.			

MAKE-UP AIR HANDLING UNIT SCHEDULE			
TAG	MAU-1		
MANUFACTURER	REZNOR		
MODEL NO.	ADF 500		
TYPE	DIRECT		
CFM	5,000		
ESP (*WG)	0.55		
RPM	1170		
BONNET: INPUT (BTU/HR)	468,078		
OUTPUT	---		
EAT DB(*F)	0		
LAT DB(*F)	110.3		
FILTER: TYPE	PERM		
FILTER FRAME	33"x34"		
ELECTRICAL: VOLTAGE/PHASE	3		
VOLTAGE/PHASE	208/1		
FAN FLA	17.0		
REMARKS:	(1)		
NOTE: ALL LINE VOLTAGE WIRING BY E.C. (1) PROVIDE 12" BURNER, INDOOR FILTER CABINET WITH 2" PERMANENT FILTERS & REMOVE CONSOLE W/ DISCHARGE AIR SELECTOR MOUNTED ON REMOTE CONSOLE.			

EXHAUST FANS SCHEDULE						
TAG	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NO.	SP-7	GB-101-4	GB-101-4	GB-200-5	GB-101-4	GB-101-4
AREA SERVED	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
CFM	110	300	600	3,100	750	500
ESP *WG	0.125	0.375	0.25	0.25	0.75	0.50
RPM	950	976	953	667	1,270	1,137
MOUNTING	CEILING	ROOF	ROOF	ROOF	WALL	WALL
DRIVE	DIRECT	BELT	BELT	BELT	BELT	BELT
SONES	2.2	2.6	4.0	8.7	5.1	4.2
ELECTRICAL: MOTOR HP (BHP)	FRAC.	FRAC.	FRAC.	FRAC.	FRAC.	FRAC.
FAN F.L.A.	1.4	1.4	2.0	3.2	3.4	3.2
VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1
CONTROL	(1)	(1)	(1)	(1)	(1)	(1)
REMARKS:						
(1) CONTROL TYPE: EF: BUILDING OCCUPANCY TIME-CLOCK. PROVIDED BY HEATING CONTRACTOR.						
NOTE: ALL LINE VOLTAGE WIRING BY E.C. H.C. TO PROVIDE EXHAUST SOFFIT VENT.						

PUMP SCHEDULE			
TAG	P-1	P-2	P-3
MANUFACTURER	B & G	B & G	B & G
MODEL NO.	PL50	PL75	NRF-22
TYPE	BOILER CIRCULATOR	SYSTEM CIRCULATOR	INJECTION PUMP
LOCATION	MECHANICAL ROOM	MECHANICAL ROOM	MECHANICAL ROOM
SERVICE	RADIANT	RADIANT	RADIANT
GPM	40	35	9
HP(BHP)	-	-	-
EFFICIENCY (%)	55	54	50
SUCTION I.D.	1-1/2"	1-1/2"	1-1/2"
DISCHARGE I.D.	1-1/2"	1-1/2"	1-1/2"
MOTOR: HORSEPOWER	1/6	1/6	1/20
VOLTAGE/PHASE	115/1	115/1	115/1
RPM	1760	1760	1600
REMARKS:			

HOT WATER SPECIALTIES SCHEDULE					
TAG	SERVICE	MANUFACTURER	MODEL NO.	CAPACITY	REMARKS
AIR SEPERATOR AS-1	PRIMARY HOT WATER	B & G	R-3	2"	W/STRAINER
EXPANSION TANKS ET	HOT WATER	TACO	CA140	45	(1) BLADDER TYPE
AUTOMATIC AIR VENT	HOT WATER	TACO	426	1/4"Ø	HIGH CAP 12SCFM @ 30 PSIG
PRESSURE REDUCING VALVES	MAKE-UP WATER	TACO	334	1/2"Ø	BRASS NPT
BYPASS CHEM FEEDER	HOT WATER	CHEM-TRT SUPPLIED	---	2 GAL	W/DRAIN VALVE
(1) PROVIDED PAINTED EXPANSION TANKS WITH SADDLE SUPPORTS, GAUGE GLASS AND VALVES.					

HOT WATER BOILER SCHEDULE									
TAG	MANUFACTURER	MODEL NO.	TYPE	FUEL	INPUT MBH	OUTPUT MBH	EFF %	VENT SIZE	REMARKS
B-1	FULTON	PHW 500	PULSE COMB.	PROP.	500	440	90	3"Ø	(1)
B-2	FULTON	PHW 500	PULSE COMB.	PROP.	500	440	90	3"Ø	(1)
(1) PROVIDE CONTROL PANEL FOR LEAD/LAGGING OF BOILERS.									

#### COMPUTER ROOM UNIT CRU-

CRU-1, LIEBERT ET-060, SCROLL COMPRESSOR, 80°F DB, 67°F WB,  
0.1 IN. WG, 1910 CFM, 5kW ELECTRICAL HEAT, 23.4 FLA, 240 V, 470 LBS.

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c)

HWY: INTERSTATE 94 AT ML

COUNTY: KENOSHA

#### HVAC - SCHEDULES

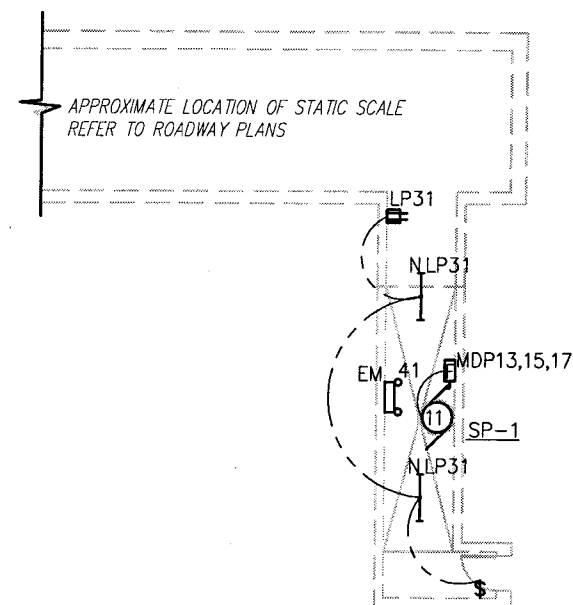
SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

DATE: 1/1/02

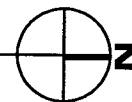
SHEET NO: 174 OF

DWG. H602



PARTIAL SCALE TUNNEL ELECTRICAL PLAN

1/16" = 1'-0"



## ELECTRICAL SYMBOL SCHEDULE

MOUNTING SYMBOL DESCRIPTION  
HGT.

		<u>SECURITY</u> SECURITY CAMERA LOCATION
		<u>TELEPHONE AND COMMUNICATION SYSTEMS</u> TELEPHONE OUTLET IN WALL
18"		TELEPHONE OUTLET ABOVE COUNTER
18"		DATA OUTLET IN WALL
		<u>EQUIPMENT AND WIRING</u> DIRECT EQUIPMENT CONNECTION
		MOTOR CONNECTION-SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.
		JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS
		FUSE HOLDER W/FUSESTAT AND TOGGLE SWITCH (1/2 HP MOTORS AND UNDER)
		PUSHBUTTON CONTROL-UP/DOWN/STOP
		SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK-W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY 'F'-FUSED)
		COMB. MOTOR STARTER/FUSED DISCONNECT
		ELECTRICAL POWER PANEL

### ABBREVIATIONS

### SUBSCRIPTS

AFF=ABOVE FINISH FLOOR  
GFI=GROUND FAULT INTERRUPTER  
NL=NIGHT LIGHT-24 HOURS  
PC=PHOTOCELL CONTROLLED  
PC/TC=PHOTOCELL ON/TIMECLOCK OFF  
TC=TIMECLOCK CONTROLLED  
WP=WEATHERPROOF

## ELECTRICAL SYMBOL SCHEDULE

MOUNTING SYMBOL DESCRIPTION  
HGT.

PANEL/CIRC.#		<u>LIGHTING FIXTURES</u> INCANDESCENT: SURFACE/PENDANT
TYPE		HID: LOW BAY/PENDANT
SWITCHING		HID: SURFACE WALL MOUNTED
		COMPACT FLUORESCENT: RECESSED
		FLUORESCENT: RECESSED
		FLUORESCENT: SURFACE, CEILING MOUNTED
		FLUORESCENT: SURFACE, WALL MOUNTED
		EXIT LIGHT: ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS
		EMERGENCY LIGHT W/ BATTERY PACK: WALL MOUNTED
		<u>SWITCHES</u> SINGLE POLE
48"		THREE WAY
48"		FOUR WAY
48"		DIMMER SWITCH
48"		PILOT LIGHT SWITCH
		<u>RECEPTACLES</u> DUPLEX: RECESSED - W.P. INDICATES WATERPROOF
18"		DUPLEX: SURFACE
18"		DUPLEX: W/GROUND FAULT INTERRUPTION PROTECTION
18"		DUPLEX RECEPT. MOUNTED ABOVE COUNTER-TOP
18"		DUPLEX: W/DEDICATED GRND. AND SURGE PROTECTION
90"		CLOCK OUTLET - RECESSED WALL MOUNTED
90"		CABLE TV OUTLET - SURFACE W/RECEPTACLE AND CABLE CONNECTION

### EQUIPMENT

AC=AIR CONDITIONER  
EF=EXHAUST FAN  
EWH=ELECT. WALL HEATER  
AC=AIR COOLED CONDENSER  
RCP=RECIRCULATING PUMP  
UH=UNIT HEATER  
EWH ELECTRIC WALL HEATER  
B=BOILER  
AHU=AIR HANDLING UNIT

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c)

HWY: INTERSTATE 94 AT ML

COUNTY: KENOSHA

ELECTRICAL - SCALE TUNNEL SCALE AND POWER PLAN

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET

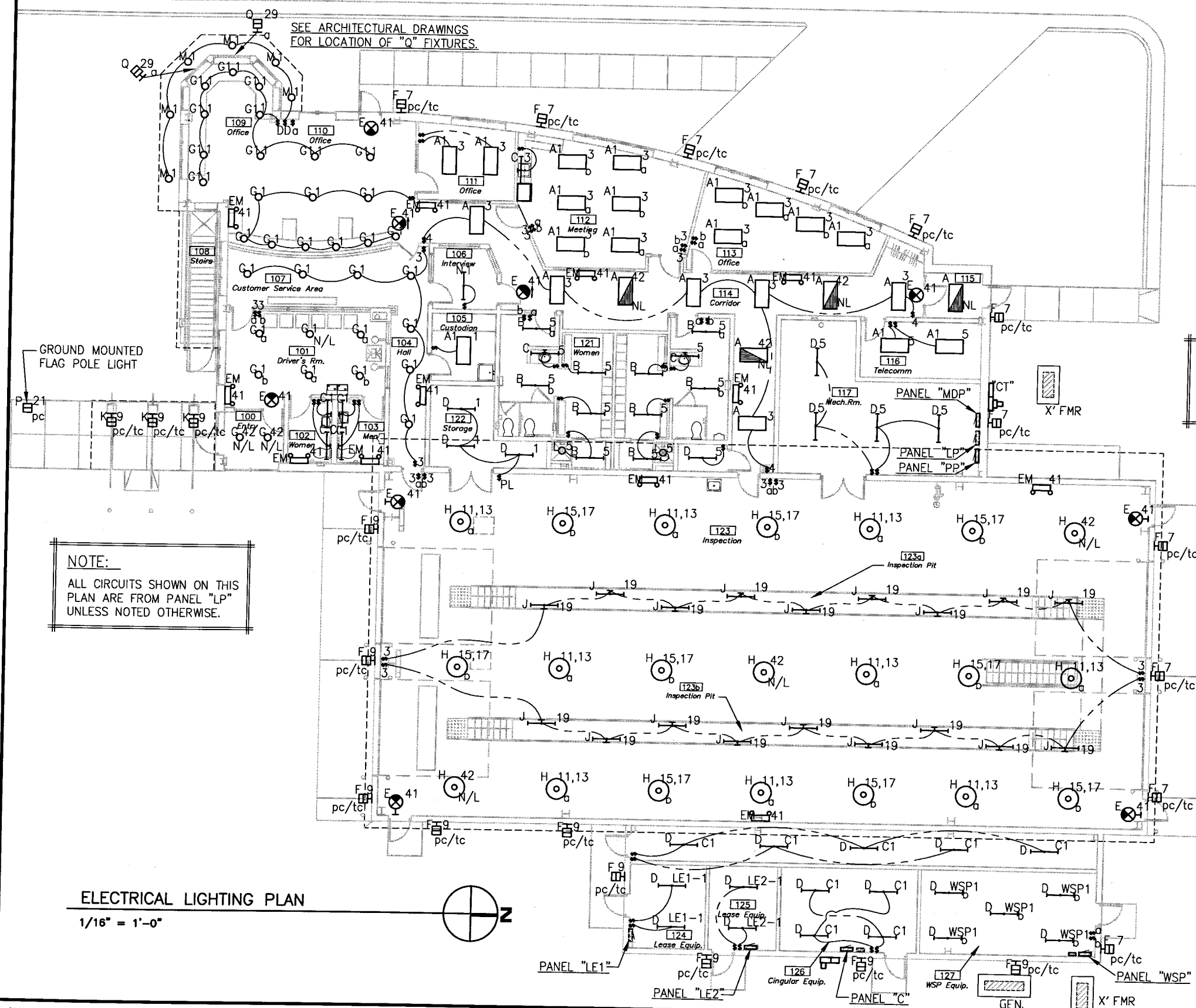
DATE: 1/1/02

SHEET NO: 175

OF

DWG.

E101



NOTE:  
ELECTRICAL CONTRACTOR MUST VERIFY ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECTURAL DRAWINGS.

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

ELECTRICAL - FIRST FLOOR LIGHTING PLAN

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET 0

DATE: 1/1/02

SHEET NO: 176 OF

DWG.

E102

(2) DUPLEX OUTLETS  
ABOVE CEILING FOR CCTV  
MONITORS. MONITORS AND  
HARDWARE BY OWNER.  
EXTEND CABLE RACEWAY TO  
ASSESSABLE CEILING.

PROVIDE DUPLEX OUTLET FOR  
"TV" SUSPENDED FROM CEILING  
MONITORS & HARDWARE  
BY OWNER

#### NOTE:

PROVIDE "J" BOX W/ BLANK COVER  
AND CONDUIT STUB AT ALL SECURITY  
CAMERA LOCATIONS SHOWN.  
CAMERA & WIRING BY OWNER.

#### NOTE:

ALL CIRCUITS SHOWN ON THIS  
PLAN ARE FROM PANEL "LP"  
UNLESS NOTED OTHERWISE.

#### NOTE:

ELECTRIC SERVICE FEEDERS BY  
LOCAL UTILITY. FEEDERS UNDER  
PAVEMENT TO BE IN CONDUIT  
PROVIDED FROM TRANSFORMER TO  
BUILDING BY ELECTRICAL CONTRACTOR

#### NOTE:

ELECTRICAL CONTRACTOR TO COORDINATE  
ALL UNDERGROUND AND BELOW FLOOR  
WORK WITH ALL OTHER CONTRACTORS.

#### NOTE:

ELECTRICAL CONTRACTOR TO PROVIDE (3) CABLE  
ENTRY PANELS. PANELS TO BE INSTALLED BY  
BUILDING GENERAL CONTRACTOR. SEE  
SPECIFICATIONS AND ARCHITECTURAL DRAWINGS

#### NOTE:

ELECTRICAL CONTRACTOR TO EXTEND 3/4"  
CONDUIT WITH (3) #10 THIN CU & #8 GROUND  
CONDUCTORS FROM CINGULAR PANEL TO  
TOWER BASE FOR TOWER LIGHTING.

#### NOTE:

ELECTRICAL CONTRACTOR TO PROVIDE AND  
INSTALL THIS GENERATOR. PROVIDE AND  
INSTALL AUTOMATIC TRANSFER SWITCH.

### ELECTRICAL POWER PLAN

1/16" = 1'-0"



PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

### ELECTRICAL - FIRST FLOOR POWER PLAN

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET


DATE: 1/1/02

SHEET NO: 177 OF

DWG.

E103

LIGHTING FIXTURE SCHEDULE							
TAG	LAMPS *				MOUNTING	DESCRIPTION	REMARKS
	NO.	TYPE	WATTS	DESCRIPTION			
A	2	F	32	F32T8/SPX41	RECESSED/CEILING	CEILING GRID MOUNTED TROFFER LIGHT ELECTRONIC BALLAST	(1)2L 2x4 SINGLE BALLAST 1/8" ACRYLIC LENS
A1	3	F	32	F32T8/SPX41	RECESSED/CEILING	CEILING GRID MOUNTED TROFFER LIGHT 3" DEEP PARABOLIC LENS	(1)3L 2x4 SINGLE BALLAST ELECTRONIC BALLAST
B	2	F	32	F32T8/SPX41	SURFACE/CEILING	WET LOCATION, ENCLOSED FIBERGLASS BODY, ELECTRONIC BALLAST	(1)2L 2x4 SINGLE BALLAST WP, 1/8" ACRYLIC LENS
C	1	F	32	F32T8/SPX41	SURFACE/WALL	ALL-PURPOSE WALL BRACKET LIGHT UP-DOWN LIGHT	(1) 1L 1X4 ONE BALLAST ENERGY SAVING BALLAST
D	2	F	32	F32T8/SPX41	SURFACE/CEILING	GENERAL-PURPOSE CHANNEL ELECTRONIC BALLAST	(1) 2L 1x4 SURFACE ALUMINUM BODY
E	--	LED	6.5	W/FIXTURE	SURFACE/WALL	BATTERY PACK EXIT LIGHT PVC CONSTRUCTION	(3) EXIT LIGHT W/BATTERY BACK-UP
EM	2	TH	5.4	5.4W WEDGE BASE	SURFACE/WALL	BATTERY PACK EGRESS LIGHT PVC CONSTRUCTION	EMERGENCY EGRESS LIGHT W/BATTERY BACK-UP
F	1	MH	100	100M/MED/U	SURFACE/WALL	VISA - OW605H100	(2) 1L RECESSED WALL MT'D 14" SQUARE FLAT SHIELD
G	1	CF	18	18DTT	RECESSED/CEILING	I/C RATED RECESSED LIGHT CLEAR SPECULAR CONE	(2) 1L RECESSED "CAN" ELECTRONIC BALLAST
G1	1	CF	18	18DTT	RECESSED/CEILING	SIMILAR TO "G" ABOVE WITH DIMMABLE BALLAST	1L RECESSED "CAN" DIMMABLE BALLAST
H	1	MH	250	250M/MED/U	SURFACE/CEILING	LOW BAY HID LIGHT WITH POWER HOOK CONNECTION	(2) 1L PENDANT MT'D LOW-BAY HID
J	2	F	34	F40T12/ES	SURFACE/WALL	HAZLUX - XFM244ES12GG	(1)2L 2X4 SINGLE BALLAST EXPLOSION-PROOF WALL MT'D
K	2	CF	26	26DTTQUAD	SURFACE/WALL	SPI - ECI 4801 120 BFT PM FL	(1) 2L 1X1 SINGLE, INTEGRAL BALLAST, PIER MT'D
L	1	CF	13	13DTT	RECESSED/CEILING	I/C RATED RECESSED LIGHT ACRYLIC DROP LENS & PLASTIC FRAME	1L SINGLE BALLAST RECESSED SHOWER LIGHT
M	2	CF	26	26DTT	SURFACE/SOFFIT	EXTERIOR DOWNLIGHT, HORIZONTAL LAMP OPEN CONSTRUCTION - 8" MAX. DEPTH	(1) 2L OPEN CYLINDER DIMMABLE BALLAST
N	2	F	32	F32T8/SPX41	SURFACE/CEILING	CEILING MOUNTED WRAP-AROUND ELECTRONIC BALLAST	2L 1x4 SINGLE BALLAST 1/8" ACRYLIC LENS
P	1	MH	70	70M/MED/U	RECESSED/SIDEWALK	HYDREL - M9400	1L EXTERIOR RECESSED FLAG POLE LIGHT
Q	1	MH	70	70M/MED/U	SURFACE/WALL	GE POWERFLOOD - SBF 07 MH 1 H	(2) 1L EXTERIOR FLOODLIGHT MOUNTED BELOW SILL
<p><u>LAMP ABBREVIATIONS:</u>  LED = LIGHT EMITTING DIODE, F = FLOURSCENT, TH = TUNGSTEN HALOGEN, MH = METAL HALIDE, LV = LOW VOLTAGE  CF = COMPACT FLOURSCENT, IN = INCANDESCENT, HPS = HIGH PRESSURE SODIUM  * BASED ON GE LAMPS.</p> <p><u>REMARKS:</u>  (1) ELECTRONIC BALLAST - SEE SPECIFICATIONS.  (2) PROVIDE HIGH POWER FACTOR, CLASS 'A' SOUND RATED BALLAST.  (3) CONTRACTOR TO PROVIDE SINGLE OR DOUBLE PANEL EXIT FACE AS REQ'D AND MOUNT FIXTURE AS INDICATED ON DWGS.</p> <p><u>GENERAL LIGHTING NOTES</u>  - ALL FIXTURES TO BE 120V UNLESS NOTED OTHERWISE.  - SEE SPECIFICATIONS FOR FIXTURE AND BALLAST REQUIREMENTS.  - COORDINATE LAMP BURNING POSITIONS TO BE COMPATIBLE WITH FIXTURE.  - ALL FASTENERS TO BE STAINLESS STEEL AND TAMPER-PROOF.</p>							

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI				ELECTRICAL - LIGHT FIXTURE SCHEDULE		DATE: 1/1/02	
STATE PROJECT NUMBER: 1032-08-70 (c)		HWY: INTERSTATE 94 AT ML	COUNTY: KENOSHA	SAFETY & WEIGHT FACILITY NO. 21	SCALE, FEET 	SHEET NO: 178 OF	DWG. E601

ELECTRICAL MOTOR/EQUIPMENT SCHEDULE																
TAG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PANEL NO.	"PP"	"PP"	"PP"	"PP"	"PP"	"PP"	"PP"	"PP"	"MDP"	"MDP"	"MDP"	"PP"	"PP"	"PP"	"PP"	"MDP"
CIRCUIT	1	3	5	7	2,4	6,8	10,12	9,11	8,10,12	7,9,11	13,15,17 14,16,18	13 & 15	17 & 19	21	23	19,21,23 20,22,24
BREAKER	20	20	20	20	30	50	50	30	50	15	35	15	15	15	15	100
POLE	1	1	1	1	2	2	2	2	3	3	3	1	1	1	1	3
WIRING NO. ①	2+G	2+G	2+G	2+G	3+G	3+G	3+G	3+G	4+G	4+G	4+G	2+G	2+G	2+G	2+G	4+G
TYPE	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU
SIZE	#12	#12	#12	#12	#10	#8	#8	#10	#8	#12	#10	#12	#12	#12	#12	#3
COND.	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/4"
ELECTRICAL HP (KW)	1/2	1/2	1/2	1/2	(4.6)	(6.5)	(6.5)	(4.6)	(18.0)	3/4	5	(.75)	(.53)	(.53)	(.25)	(31.8)
VOLT	120	120	120	120	208	208	208	208	208	208	208	120	120	120	120	208
PHASE	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	3
FLA (MCA)	14.1	14.1	14.1	14.1	22.3	31.0	31.0	22.3	50.0	3.22	17.5	6.0	4.4	4.4	2.0	80.0
STARTER TYPE	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT	-	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT	W/UNIT
SIZE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BY	E.C.	E.C.	E.C.	E.C.	H.C.	H.C.	H.C.	H.C.	-	H.C.	P.C.	H.C.	H.C.	H.C.	H.C.	G.C.
CONTROL TYPE	B.A.S.	B.A.S.	B.A.S.	B.A.S.	B.A.S.	B.A.S.	B.A.S.	B.A.S.	AQUASTAT	B.A.S.	FLOAT SW.	B.A.S.	B.A.S.	B.A.S.	B.A.S.	W/UNIT
BY	H.C.	H.C.	H.C.	H.C.	H.C.	H.C.	H.C.	H.C.	P.C.	H.C.	P.C.	H.C.	H.C.	H.C.	H.C.	G.C.
DISCONNECT TYPE	F.T.S. NEMA 1	F.T.S. NEMA 1	F.T.S. NEMA 1	F.T.S. NEMA 1	HD NEMA 3R	HD NEMA 3R	HD NEMA 3R	HD NEMA 3R	HD NEMA 1	HD NEMA 1	HD W/UNIT	F.T.S. NEMA 1	F.T.S. NEMA 1	F.T.S. NEMA 1	F.T.S. NEMA 1	HD NEMA 1
SIZE	20	20	20	20	30A	60A	60A	30A	60A	30A	--	20A	20A	20A	20A	100A
FUSE	20	20	20	20	30A	50A	50A	30A	50A	5	-	10	8	8	3	80
BY	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	--	E.C.	E.C.	E.C.	E.C.	E.C.
REMARKS	F-1 FURNACE	F-2 FURNACE	F-3 FURNACE	F-4 FURNACE	ACCU-1 CONDENSING UNIT	ACCU-2 CONDENSING UNIT	ACCU-3 CONDENSING UNIT	ACCU-4 CONDENSING UNIT	WH-1 WATER HEATER	MAU-1 MAKE-UP UNIT	SP-1(2 REQ'D) SUMP PUMP	B-1(2 REQ'D) BOILER	P-1(2 REQ'D) BL'R CIRC. PUMP	P-2 RAD. PN'L. PUMP	P-3 INJECTOR PIMP	BRAKE TESTER 2 REQUIRED
<div> <div> E.C. = ELECTRICAL CONTRACTOR  H.C. = HVAC CONTRACTOR  P.C. = PLUMBING CONTRACTOR  G.C. = GENERAL CONTRACTOR </div> <div> HOA = HAND-OFF-AUTO SWITCH  T.S = TOGGLE SWITCH  F.T.S. = FUSED TOGGLE SWITCH  FVNR = FULL VOLTAGE NON-REVERSING  COMB S/D = COMBINATION STARTER/DISCONNECT </div> <div> MAG. = MAGNETIC STARTER  H.D. = HEAVY DUTY  P.L. = PILOT LIGHT  M.S. = MANUAL STARTER  B.A.S. = BUILDING AUTOMATION SYSTEM </div> </div>																
① PROVIDE GREEN WIRE GROUND TO ALL MOTORS AND EQUIPMENT PER NEC 250-95.																

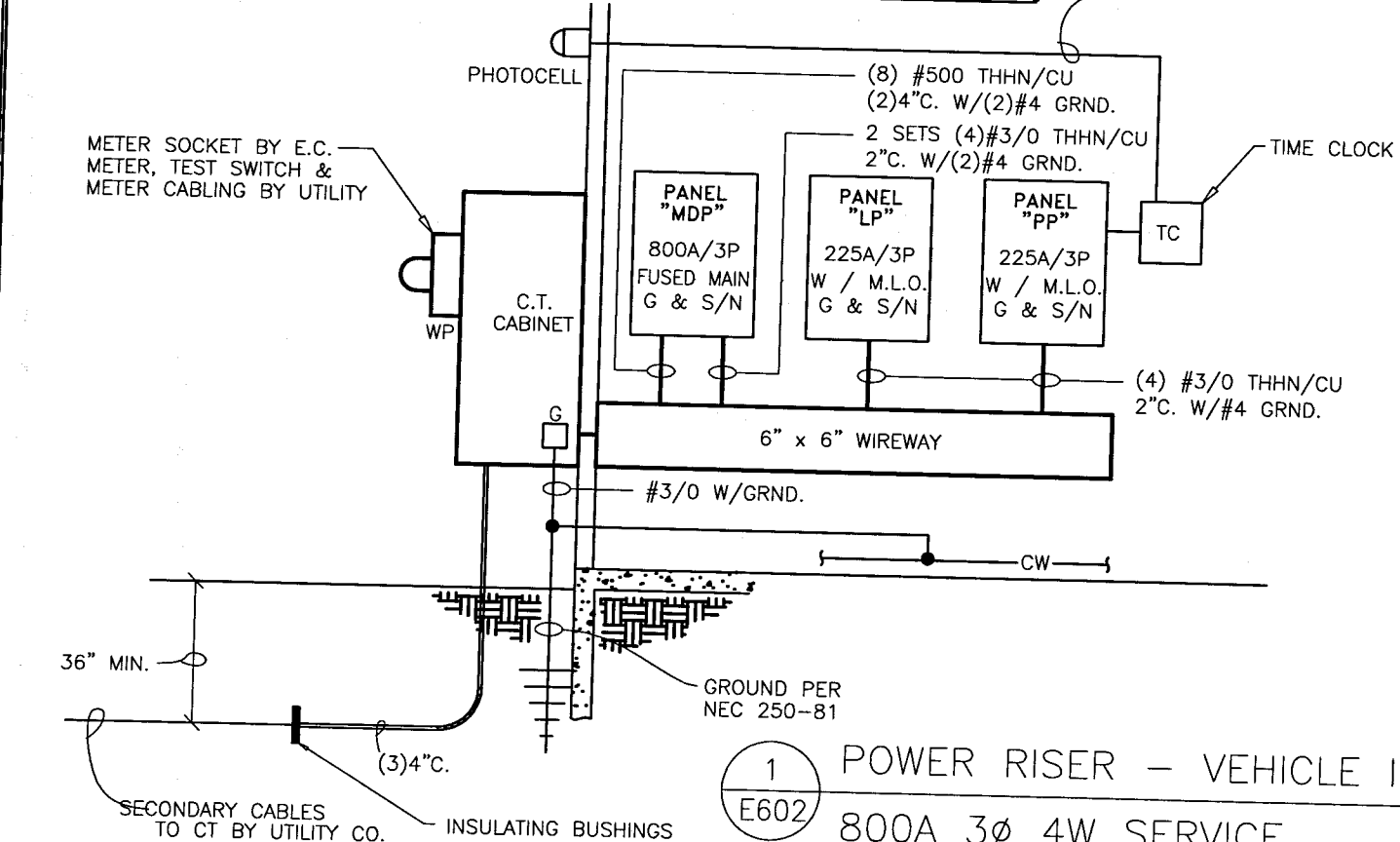


PANEL MAIN DISCONNECT PANEL ("MDP") TYPE "QED"														
AMPS MAIN		800 FUSIBLE		VOLTS 120/208		PHASE 3		MOUNTING LOCATION		SURFACE MECH. #117				
BRKR		DESCRIPTION		CIRCUIT		PHASELOADS			CIRCUIT		DESCRIPTION		BRKR	
A	P			WATT	NO.	A	B	C	NO.	WATT			A	P
200	3	LIGHTING PANEL "PP"	20,000	1	40,000				2	20,000	POWER PANEL "PP"	200		
--	--	LIGHTING PANEL "PP"	20,000	3		40,000			4	20,000	POWER PANEL "PP"	--	--	--
--	--	LIGHTING PANEL "PP"	20,000	5				40,000	6	20,000	POWER PANEL "PP"	--	--	--
15	3	MAKE-UP UNIT "MAU-1"	390	7	6390				8	6000	WATER HEATER "WH-1"	50	3	
--	--	MAKE-UP UNIT "MAU-1"	390	9		6390			10	6000	WATER HEATER "WH-1"	--	--	--
--	--	MAKE-UP UNIT "MAU-1"	390	11				6390	12	6000	WATER HEATER "WH-1"	--	--	--
35	3	SUMP PUMP "SP-1"	2100	13	2820				14	2100	SUMP PUMP "SP-1"	35	3	
--	--	SUMP PUMP "SP-1"	2100	15		2820			16	2100	SUMP PUMP "SP-1"	--	--	--
--	--	SUMP PUMP "SP-1"	2100	17				2820	18	2100	SUMP PUMP "SP-1"	--	--	--
100	3	BRAKE TEST EQUIPMENT	10610	19	21220				20	10650	BRAKE TEST EQUIPMENT	100	3	
--	--	BRAKE TEST EQUIPMENT	10610	21		21220			22	10650	BRAKE TEST EQUIPMENT	--	--	--
--	--	BRAKE TEST EQUIPMENT	10610	23				21220	24	10650	BRAKE TEST EQUIPMENT	--	--	--
				25					26					
				27					28					
				29					30					
				31					32					
				33					34					
				35					36					
				37					38					
				39					40					
				41					42					
				70430	70430	70430								
ESTIMATED DEMAND LOAD:		180,000	WATTS		TOTAL CONNECTED LOADS:		211,290	WATTS						
		500.2	AMPS				587.2	AMPS						

PANEL LIGHTING PANEL ("LP")															
AMPS MAIN 225 M.L.O.			VOLTS 12/208 PHASE 3			MOUNTING LOCATION SURFACE MECH. #117									
BRKR		DESCRIPTION	CIRCUIT		PHASELOADS			CIRCUIT		DESCRIPTION	BRKR				
A	P		WATT	NO.	A	B	C	NO.	WATT		A	P			
20	1	LIGHTS-#102 TO #110	1610	1	2410			2	800	RECPT'S - #109-#110	20	1			
20	1	LIGHTS-#111 TO #113	1530	3		2330		4	800	RECPT'S - #109-#110	20	1			
20	1	LIGHTS-#116 TO #121	1230	5			2670	6	1440	RECPT'S - #109-#110	20	1			
20	1	EXTERIOR LIGHTS	1375	7	2875			8	1500	COPIER - #110	20	1			
20	1	EXTERIOR LIGHTS	1325	9		2325		10	1000	FAX - #110	20	1			
20	1	LIGHTS-#126	1300	11			1900	12	600	RECPT'S - #107	20	1			
20	1	LIGHTS-#126	1300	13	2300			14	1000	RECPT'S - #113	20	1			
20	1	LIGHTS-#126	1300	15		2300		16	1000	RECPT'S - #112	20	1			
20	1	LIGHTS-#126	1300	17			2740	18	1440	RECPT'S - #112	20	1			
20	1	LIGHTS-INSPECTION PIT	1280	19	2390			20	1080	RECPT'S - #114-#116	20	1			
20	1	FLAGPOLE LIGHT	95	21		895		22	800	RECPT'S - #116	20	1			
20	1	TROUBLE LIGHTS #123	250	23			1510	24	1260	RECPT'S - #114&#117	20	1			
20	1	PORT. AIR COMP. #123	1500	25	2940			26	1440	RECPT'S - #105-#122	20	1			
20	1	LIGHTS & RECPT. #108	400	27		1660		28	1260	RECPT'S - #100-#106	20	1			
20	1	TRUCK APPROACH LT'S	500	29			2000	30	1500	ELECTRIC WATER CL'R.	20	1			
20	1	BRAKE TEST COMPT'R.	500	31	2100			32	1600	SECURITY CAMERAS	20	1			
20	1	BRAKE TEST COMPT'R.	500	33		1940		34	1440	RECPT'S - #123	20	1			
20	1	BRAKE TEST PRINTER	1000	35			2440	36	1440	RECPT'S - #123	20	1			
20	1	BRAKE TEST PRINTER	1000	37	1600			38	600	EXTERIOR RECPT'S	20	1			
20	1	EXIT & EGRESS LITES	500	41		500		40	500	TELECOMM EQUIP. #116	20	1			
				39				42	1100	NIGHT LITES	20	1			
						16615	11950	14860							
ESTIMATED DEMAND LOAD: 35,000 WATTS 97.3 AMPS TOTAL CONNECTED LOADS: 44,425 WATTS 123.5 AMPS															
(*) PROVIDE SURGE PROTECTION AND ISOLATED GROUND FOR THESE CIRCUITS															

(\*) PROVIDE SURGE PROTECTION AND ISOLATED GROUND FOR THESE CIRCUITS.

PANEL POWER PANEL ("PP")														
AMPS MAIN		225 M.L.O.		VOLTS PHASE		12/208 3		MOUNTING LOCATION		SURFACE MECH. #117				
BRKR		DESCRIPTION	CIRCUIT		PHASELOADS			CIRCUIT		DESCRIPTION	BRKR			
A	P		WATT	NO.	A	B	C	NO.	WATT		A	P		
20	1	FURNACE "F-1"	1700	1	4000			2	2300	COND. UNIT "ACCU-1"	30	2		
20	1	FURNACE "F-2"	1700	3		4000		4	2300	COND. UNIT "ACCU-1"	--	--		
20	1	FURNACE "F-3"	1700	5			4950	6	3250	COND. UNIT "ACCU-2"	50	2		
20	1	FURNACE "F-4"	1700	7	4950			8	3250	COND. UNIT "ACCU-2"	--	--		
30	2	COND. UNIT "ACCU-4"	1700	9		4950		10	3250	COND. UNIT "ACCU-3"	50	2		
--	--	COND. UNIT "ACCU-4"	1700	11			4950	12	3250	COND. UNIT "ACCU-3"	--	--		
15	1	BOILER "B-1"	750	13	2600			14	1100	EXH. FANS "EF-1,2,3"	20	1		
15	1	BOILER "B-1"	750	15		2685		16	1185	EXH. FANS "EF-4,5,6"	20	1		
15	1	BL'R.CIRC.PUMP "P-1"	530	17			2830	18	1130	GARAGE DOOR OPENER	20	1		
15	1	BL'R.CIRC.PUMP "P-1"	530	19	2830			20	1130	GARAGE DOOR OPENER	20	1		
15	1	RAD. PNL. PUMP "P-2"	530	21		2830		22	1130	GARAGE DOOR OPENER	20	1		
15	1	INJECTOR PUMP "P-3"	250	23			2830	24	1130	GARAGE DOOR OPENER	20	1		
15	2	"EWH1" - RM #115	750	25	1550			26	800	DESTRATIFICATION FANS	20	1		
--	--	"EWH1" - RM #115	750	27		1500		28	750	"EWH-1" - RM #108	15	2		
15	2	"EWH1" - RM #100	750	29			1500	30	750	"EWH-1" - RM #108	--	--		
--	--	"EWH1" - RM #100	750	31	1750			32	1000	BRAKE TEST DISPLAY	20	1		
15	2	"EWH1" - RM #102	750	33		1750		34	1000	BRAKE TEST DISPLAY	20	1		
--	--	"EWH1" - RM #102	750	35			750	36						
15	2	"EWH1" - RM #103	750	37	750			38						
--	--	"EWH1" - RM #103	750	39		750		40						
			41					42						
			18430	18465	16310									
ESTIMATED DEMAND LOAD: 45,000 WATTS 125.1 AMPS													TOTAL CONNECTED LOADS: 53,205 WATTS 147.9 AMPS	



PANEL "WSP" PANEL											
AMPS MAIN		200 M.C.B.		VOLTS PHASE		120/240 1		MOUNTING LOCATION		SURFACE WSP EQUIP. #127	
BRKR		DESCRIPTION	CIRCUIT		PHASELOADS		CIRCUIT		DESCRIPTION	BRKR	
A	P		WATT	NO.	A	B	NO.	WATT		A	P
20	1	LIGHTS	576	1	.	.	2	200	RECEPTACLES	20	1
				3	.	.	4				
				5	.	.	6				
				7	.	.	8				
				9	.	.	10				
				11	.	.	12				
				13	.	.	14				
				15	.	.	16				
				17	.	.	18				
				19	.	.	20				
				21	.	.	22				
				23	.	.	24				
				25	.	.	26				
				27	.	.	28				
				29	.	.	30				
				31	.	.	32				
				33	.	.	34	2500	THRU-WALL UNIT	50	2
				35	.	.	36	2500	THRU-WALL UNIT	--	--
				37	.	.	38	2500	THRU-WALL UNIT	50	2
				39	.	.	40	2500	THRU-WALL UNIT	--	--
				XX	XX						

ESTIMATED DEMAND LOAD: EST. @ 54,000 WATTS  
EST. @ 136 AMPS

TOTAL CONNECTED LOADS: EST. @ 54,000 WATTS  
EST. @ 150 AMPS

(\*) PROVIDE SURGE PROTECTION AND ISOLATED GROUND FOR THESE CIRCUITS.

PANEL "C" CINGULAR PANEL													
AMPS MAIN		200 M.C.B.		VOLTS PHASE		120/240 1		MOUNTING LOCATION		SURFACE CINGULAR EQUIP. #126			
BRKR		DESCRIPTION	CIRCUIT		PHASELOADS		CIRCUIT		DESCRIPTION	BRKR			
A	P		WATT	NO.	A	B	NO.	WATT		A	P		
20	1	LIGHTS	576	1			2	500	RECEPTACLES	20	1		
20	2	TOWER LIGHTS	1000	3			4						
--	--	TOWER LIGHTS	1000	5			6						
				7			8						
				9			10						
				11			12						
				13			14						
				15			16						
				17			18						
				19			20						
				21			22						
				23			24						
				25			26						
				27			28						
				29			30						
				31			32						
15	2	ELECTRIC WALL HEATER	1000	33	3500		34	2500	HVAC UNIT	50	2		
--	--	ELECTRIC WALL HEATER	1000	35		3500	36	2500	HVAC UNIT	--	--		
15	2	ELECTRIC WALL HEATER	1000	37	3500		38	2500	HVAC UNIT	50	2		
--	--	ELECTRIC WALL HEATER	1000	39		3500	40	2500	HVAC UNIT	--	--		

ESTIMATED DEMAND LOAD: EST. @ 54,000 WATTS  
EST. @ 136 AMPS

TOTAL CONNECTED LOADS: EST. @ 54,000 WATTS  
EST. @ 150 AMPS

(\*) PROVIDE SURGE PROTECTION AND ISOLATED GROUND FOR THESE CIRCUITS.

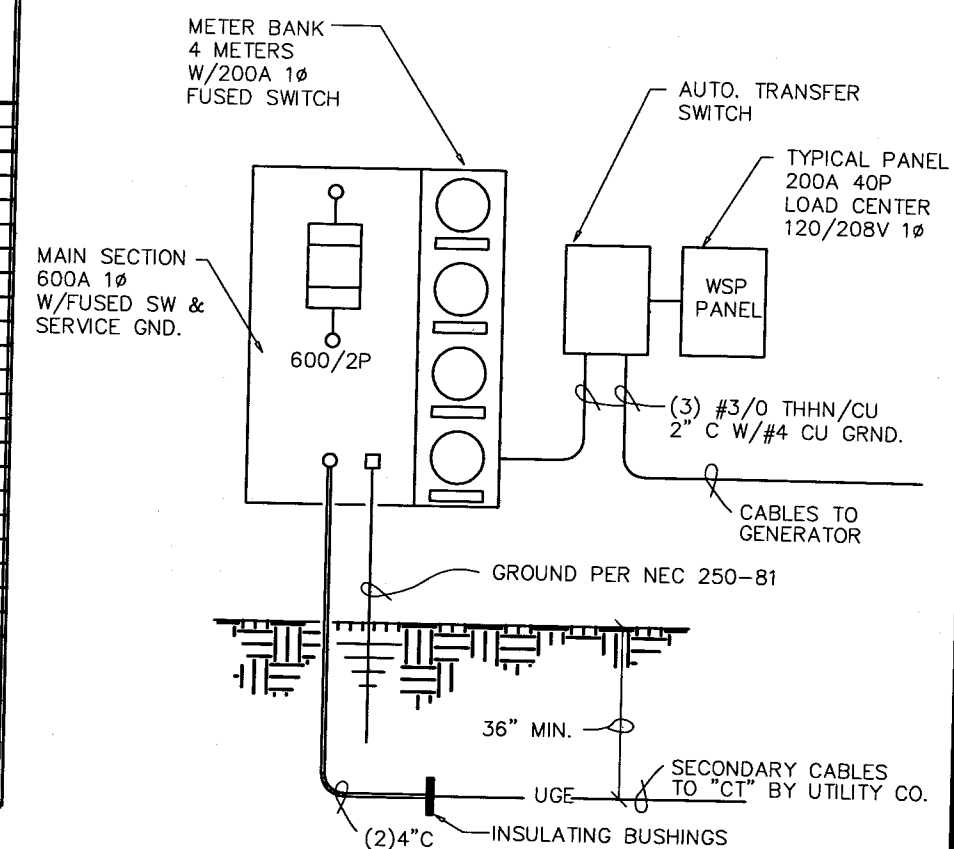
NOTE:  
FINAL LOADS FOR THESE THREE PANELS WILL BE DETERMINED UPON COMPLETION OF INDIVIDUAL CELLULAR PROVIDER'S AND/OR INSTALLER'S DESIGN. BUILDING GENERAL CONTRACTOR TO PROVIDE AND INSTALL PANELS WITH BREAKERS AS SHOWN.

PANEL "LE" LEASE EQUIP. PANEL (2 REQUIRED)											
AMPS MAIN		200 M.C.B.		VOLTS PHASE		120/240 1		MOUNTING LOCATION		SURFACE ROOMS #124 & #125	
BRKR		DESCRIPTION	CIRCUIT		PHASELOADS		CIRCUIT		DESCRIPTION	BRKR	
A	P		WATT	NO.	A	B	NO.	WATT		A	P
20	1	LIGHTS	64	1	.	.	2	500	RECEPTACLES	20	1
				3	.	.	4				
				5	.	.	6				
				7	.	.	8				
				9	.	.	10				
				11	.	.	12				
				13	.	.	14				
				15	.	.	16				
				17	.	.	18				
				19	.	.	20				
				21	.	.	22				
				23	.	.	24				
				25	.	.	26				
				27	.	.	28				
				29	.	.	30				
				31	.	.	32				
				33	.	.	34				
				35	.	.	36				
				37	.	.	38	2500	HVAC UNIT	50	2
				39	.	.	40	2500	HVAC UNIT	--	--
				XX	XX						

ESTIMATED DEMAND LOAD: EST. @ 54,000 WATTS  
EST. @ 136 AMPS

TOTAL CONNECTED LOADS: EST. @ 54,000 WATTS  
EST. @ 150 AMPS

(\*) PROVIDE SURGE PROTECTION AND ISOLATED GROUND FOR THESE CIRCUITS.



2 POWER RISER - TENANT SPACES  
E601 600A 1Ø 3W SERVICE

PLANS PREPARED BY: NATIVE ENGINEERING, INC. WAUNAKEE, WI

STATE PROJECT NUMBER: 1032-08-70 (c) HWY: INTERSTATE 94 AT ML COUNTY: KENOSHA

ELECTRICAL - SCHEDULES AND DETAILS

SAFETY & WEIGHT FACILITY NO. 21

SCALE, FEET 0

DATE: 1/1/02

SHEET NO: 181 OF

DWG.

E604