

09.14.09	PROJECT RECORD	TWA
03.20.09	PLAN ADJUSTMENTS	TWA
02.11.09	PLAN ADJUSTMENTS	TWA
01.31.09	PLAN ADJUSTMENTS	TWA

NO.	DATE	REVISIONS	BY
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PROJECT NUMBER: 7188
DATE: 01.05.09
DRAWN BY: TWA
CHECKED BY: D. NELSEN
DESIGN MANAGER: D. NELSEN

KEY

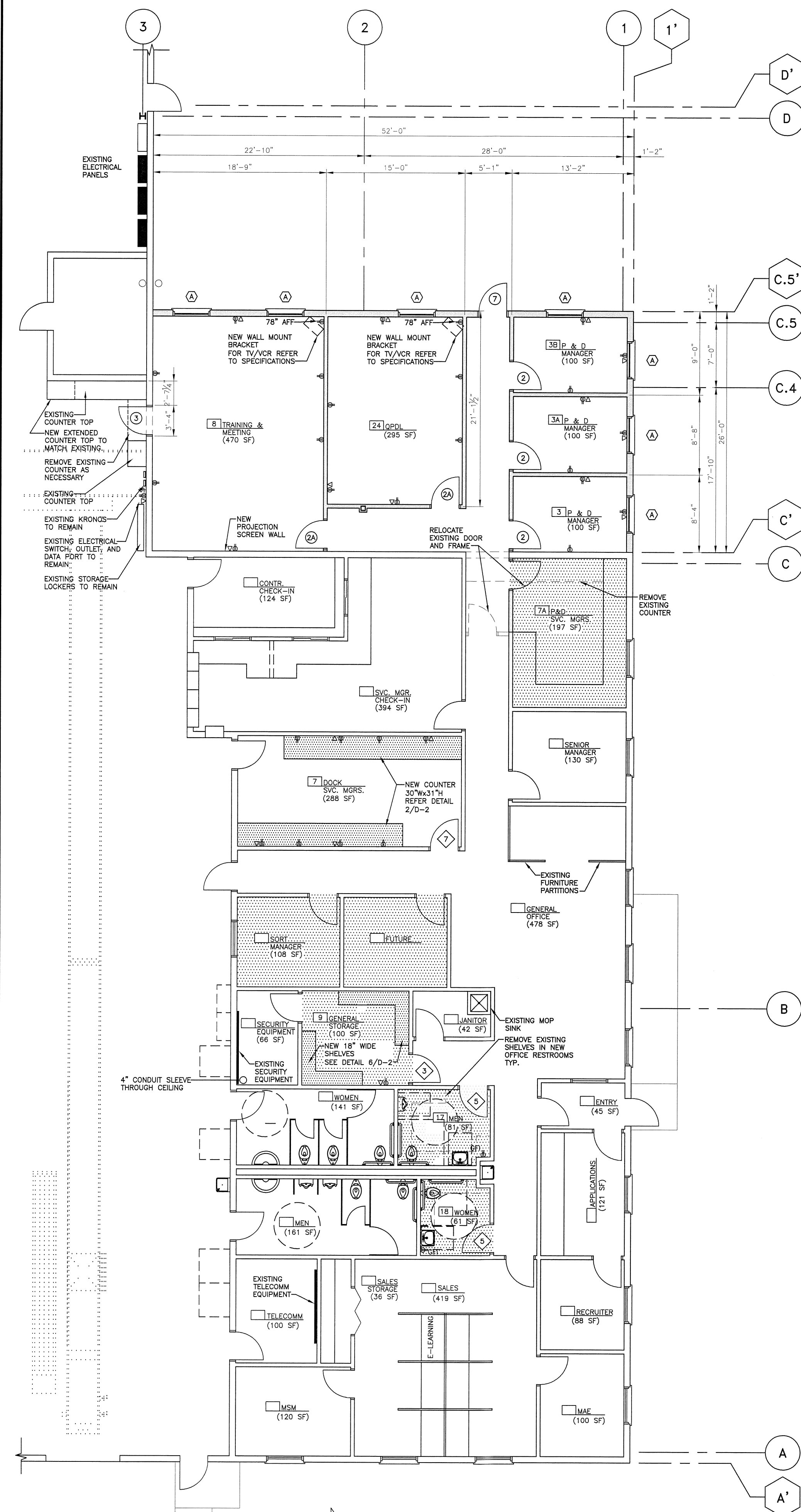
- △ LOCATION OF FLUSH SINGLE GANG TELEPHONE OUTLET WITH 3/4" CONDUIT W/PULL WIRE TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS. INSTALL COVER PLATES AT ALL LOCATIONS. (TYP)
- ▲ OFFICE AREA: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO OFFICE CEILING SPACE, SIZE AS NOTED.
- DISTRIBUTION CENTER: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO WAREHOUSE JOIST SPACE, SIZE AS NOTED.
- JUNCTION BOX W/20 AMP DEDICATED CIRCUIT TO A LOCKABLE BREAKER, LABEL BOX W/BREAKER AND PANEL
- ⊕ SPECIAL LOCATION DUPLEX RECEPTACLES, OTHERS NOT SHOWN ON PLAN
- DUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊕ QUADRUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊕ 1/2" COPPER COLD WATER SUPPLY LINE WITH 1/4" REDUCER AND VALVE
- ⊗ NEW DOOR REFER TO DOOR SCHEDULE
- ⊗ NEW WINDOW REFER TO WINDOW SCHEDULE
- ⊕ EXISTING DOOR WITH NEW HARDWARE SET INDICATED, REFER TO SPECIFICATIONS.
- ⊕ ROOM FINISH REFERENCE NUMBER, REFER TO ROOM FINISH SCHEDULE
- ⊕ WALL LIGHT SWITCH
- ⊕ NEW FLUORESCENT LIGHT FIXTURE APPROVED LIGHT FIXTURES W/2-F80T12/CW/10 "WATT MISER" LAMPS:
- LITHONIA EJ-296HO
- DAY-BRITE FRK-1125-8U
- METALLIX DIMN-296HO

LEGEND

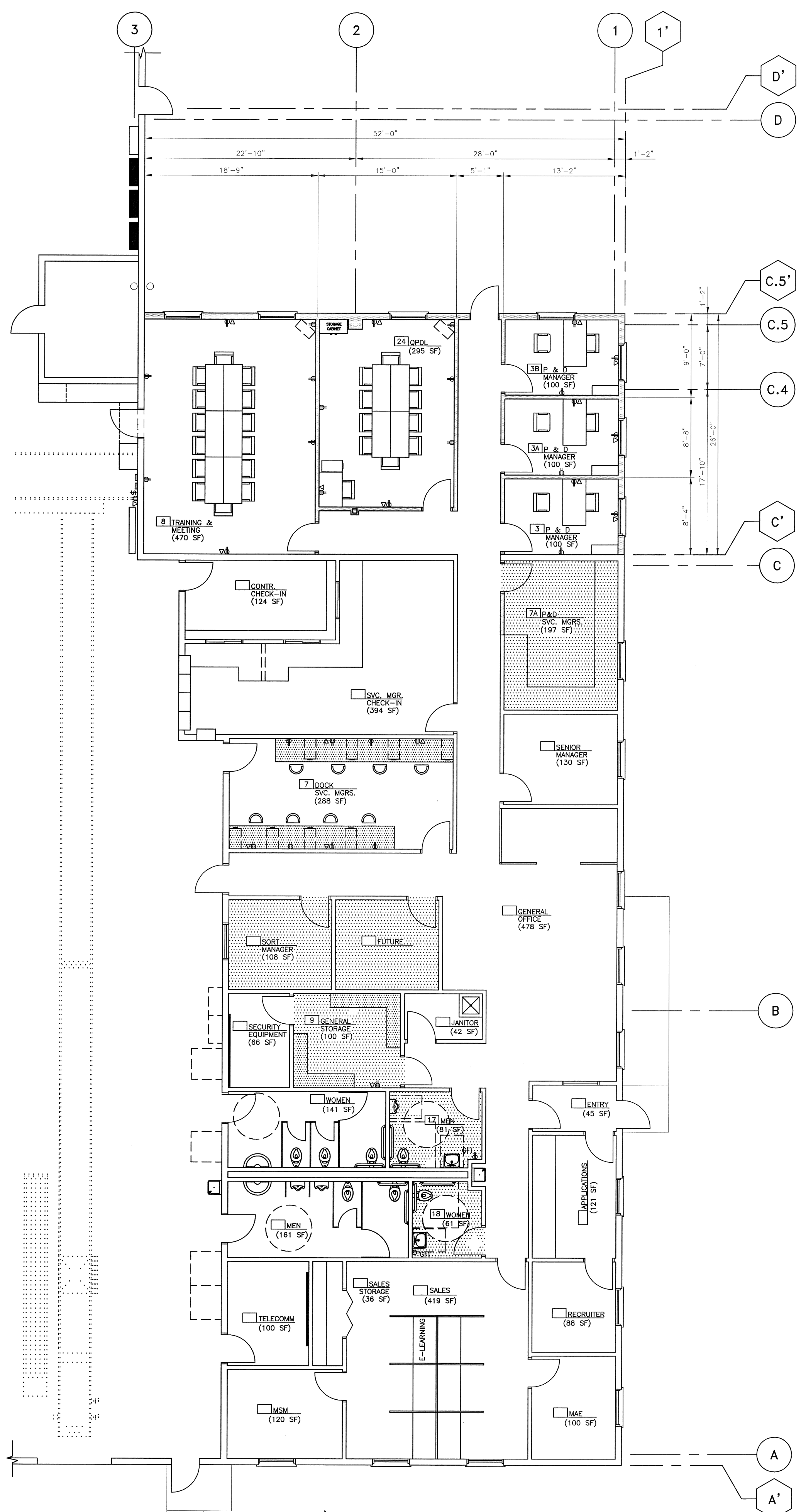
- EXISTING WALL
- - - REMOVE WALL
- NEW WALL
- ▨ NEW COUNTER/SHELF
- ▨ REASSIGNED OFFICE

NOTES:

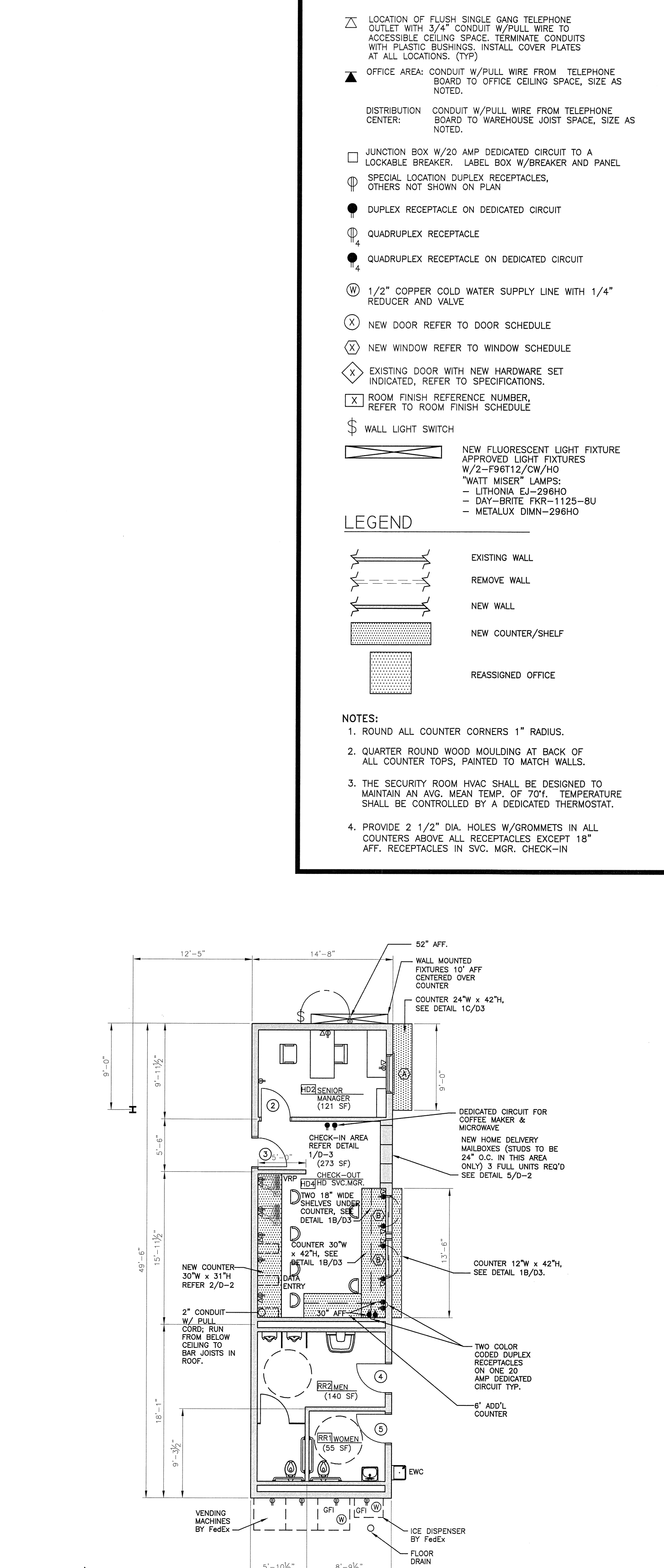
- ROUND ALL COUNTER CORNERS 1" RADIUS.
- QUARTER ROUND WOOD MOULDING AT BACK OF ALL COUNTER TOPS, PAINTED TO MATCH WALLS.
- THE SECURITY ROOM HVAC SHALL BE DESIGNED TO MAINTAIN AN AVG. MEAN TEMP. OF 70°. TEMPERATURE SHALL BE CONTROLLED BY A DEDICATED THERMOSTAT.
- PROVIDE 2 1/2" DIA. HOLES W/GROMMETS IN ALL COUNTERS ABOVE ALL RECEPTACLES EXCEPT 18" AFF. RECEPTACLES IN SVC. MGR. CHECK-IN



1 OFFICE FLOOR PLAN
SCALE: 1/8"=1'-0"
OFFICE AREA = 5,730 SF



2 OFFICE FURNITURE PLAN
SCALE: 1/8"=1'-0"
(FOR REFERENCE ONLY)



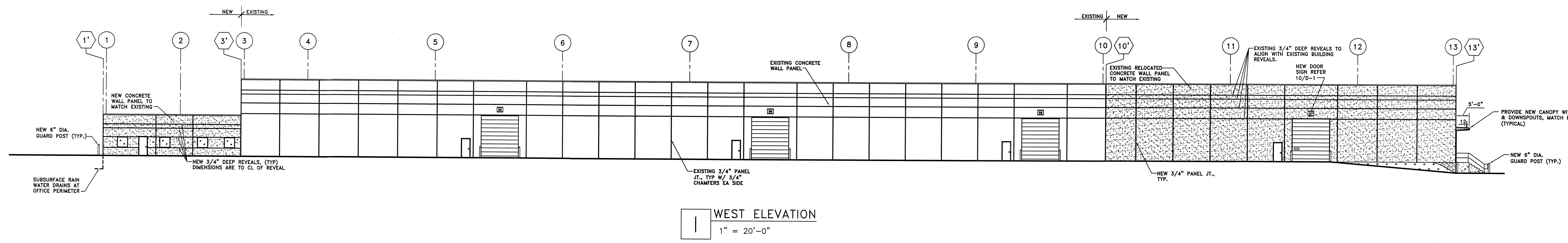
3 REMOTE OFFICE FLOOR PLAN
SCALE: 1/8"=1'-0"
(FURNITURE SHOWN FOR REFERENCE ONLY)
OFFICE AREA = 587 SF

PROJECT RECORD
09.14.09

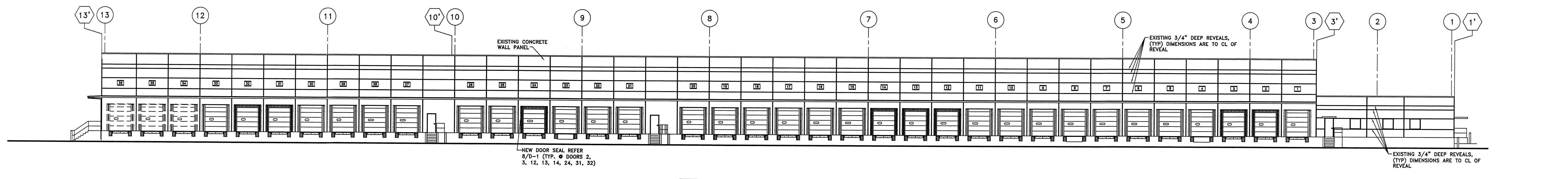
PROJECT NAME:
FED-EX GROUND FACILITY
3901 HANSON ROAD
DANE COUNTY
MADISON, WI 53704

SHEET TITLE:
BUILDING ELEVATIONS

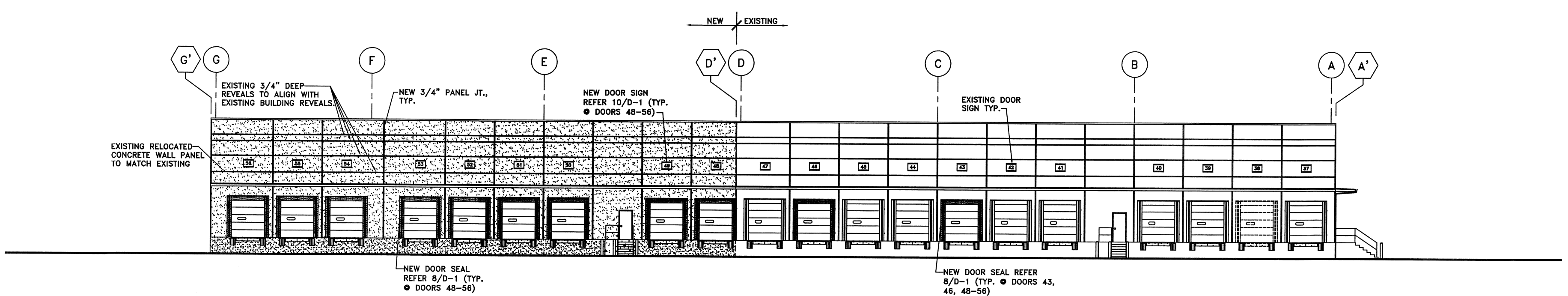
NO.	DATE	REVISIONS	BY
△	09.14.09	PROJECT RECORD	TWA
PROJECT NUMBER: 7188			
DATE: 01.05.09			
DRAWN BY: TWA			
CHECKED BY: D. NELSEN			
DESIGN MANAGER: D. NELSEN			



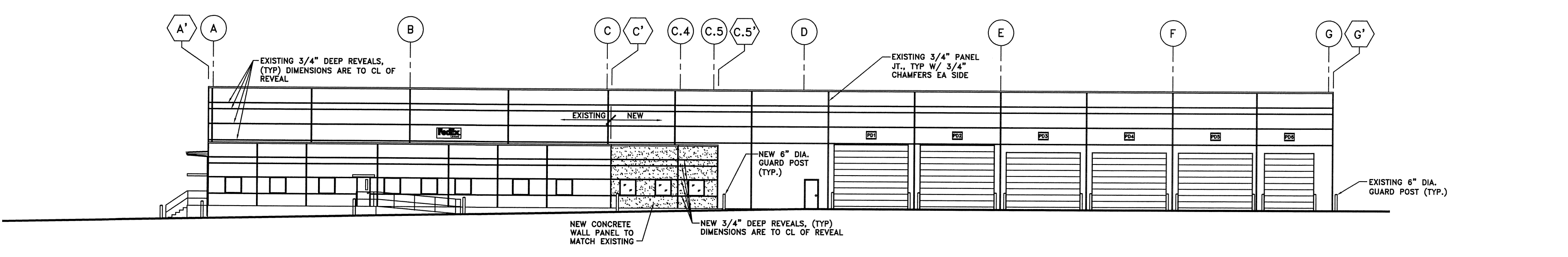
I WEST ELEVATION
1" = 20'-0"



IA EAST ELEVATION
1" = 20'-0"



IB SOUTH ELEVATION
1" = 20'-0"



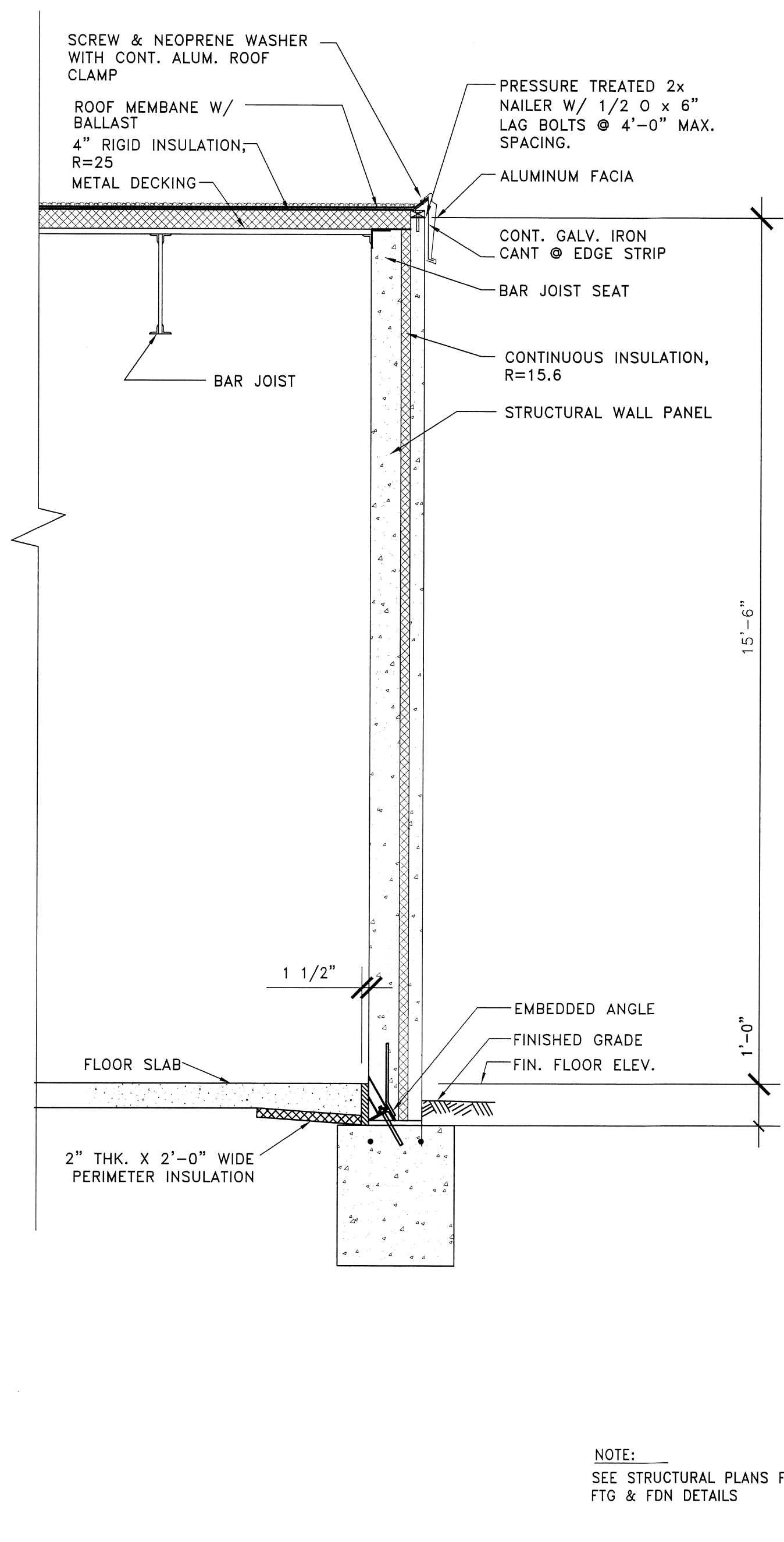
IC NORTH ELEVATION
1" = 20'-0"

PROJECT NAME:
FED-EX GROUND FACILITY
3901 HANSON ROAD
DANE COUNTY
MADISON, WI 53704

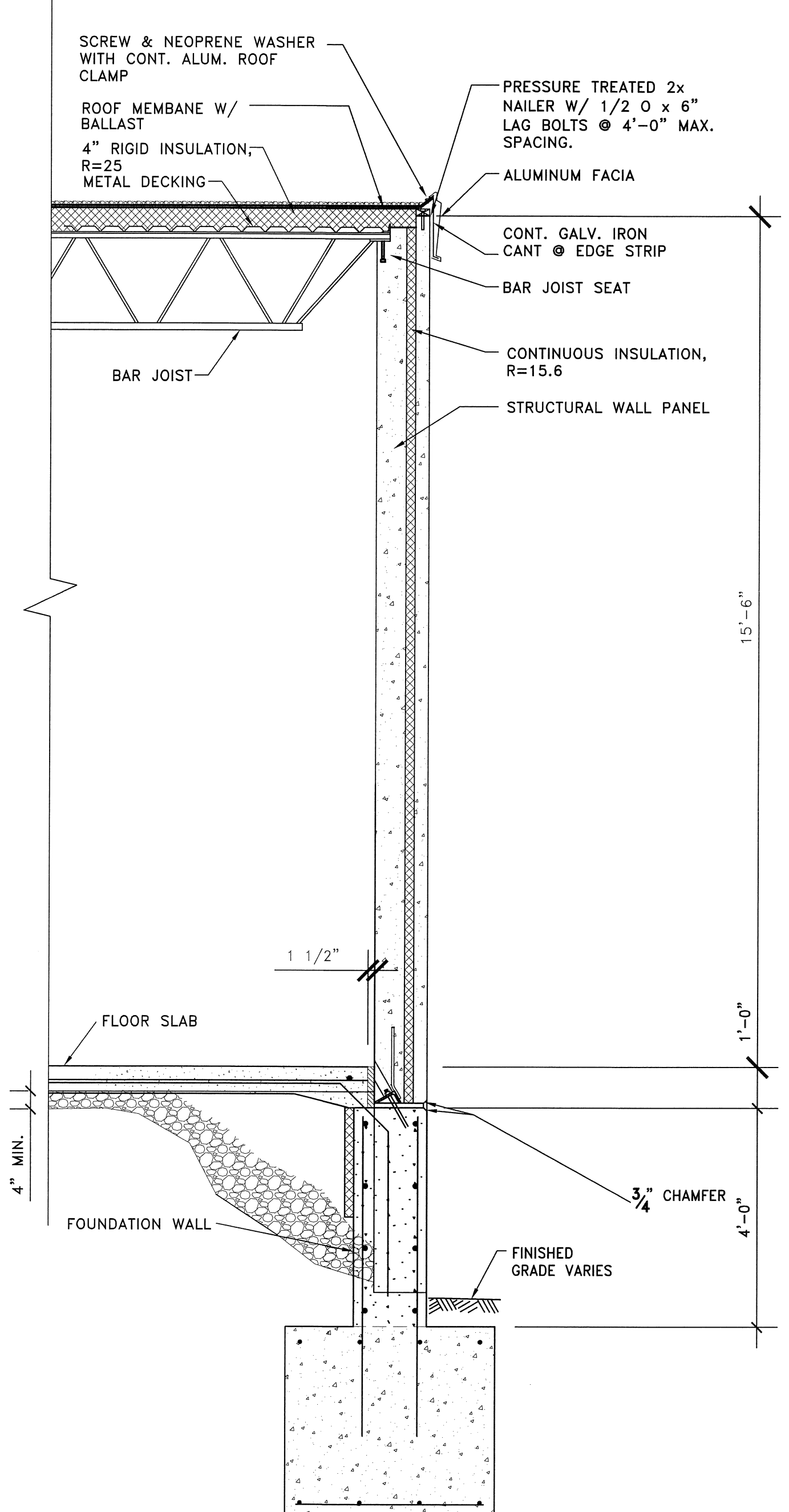
SHEET TITLE:
WALL SECTIONS

NO.	DATE	REVISIONS	BY
△	09.14.09	PROJECT RECORD	TWA

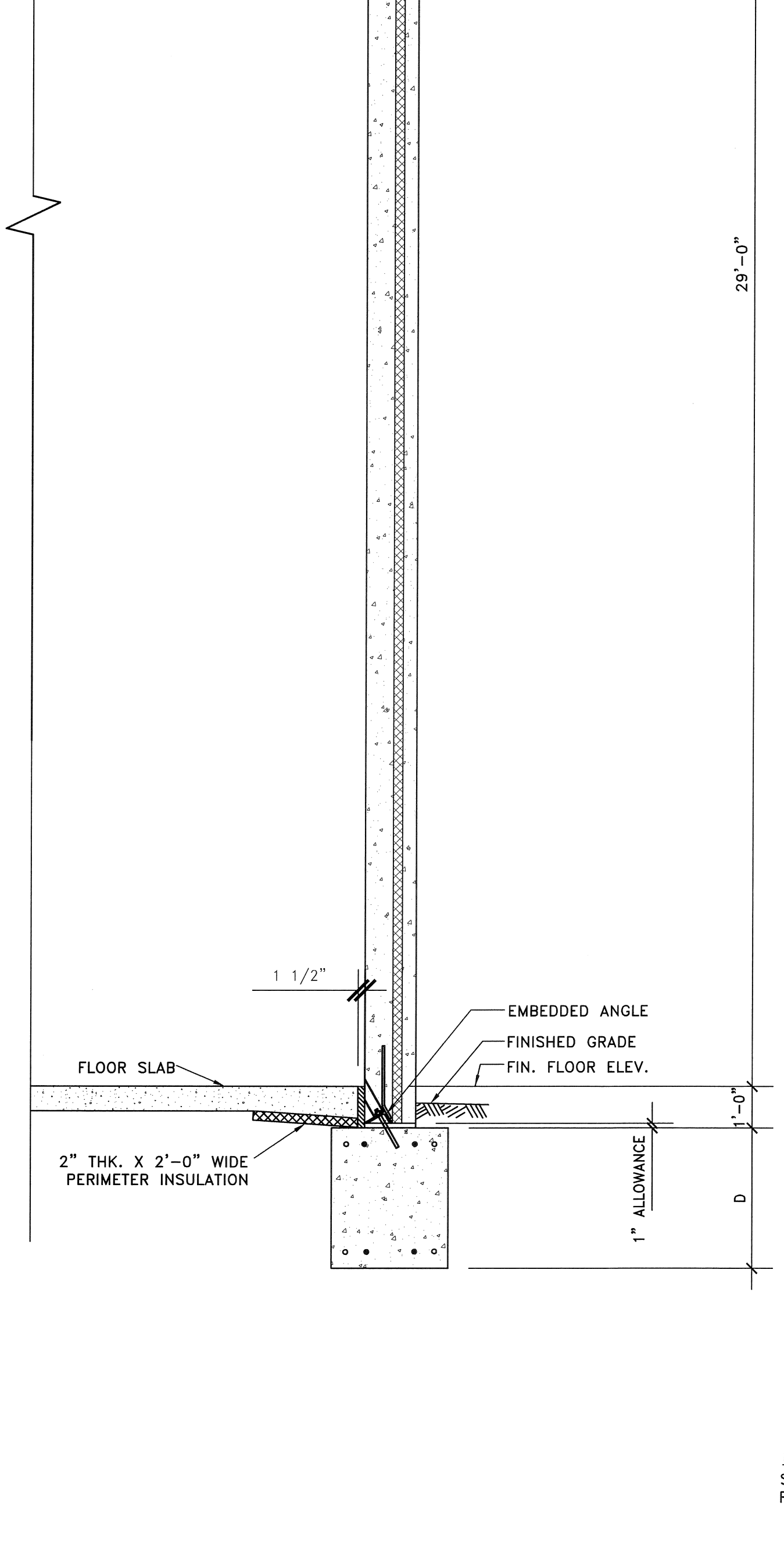
PROJECT NUMBER: 7188
DATE: 01.05.09
DRAWN BY: TWA/MW
CHECKED BY: D. NELSEN
DESIGN MANAGER: D. NELSEN



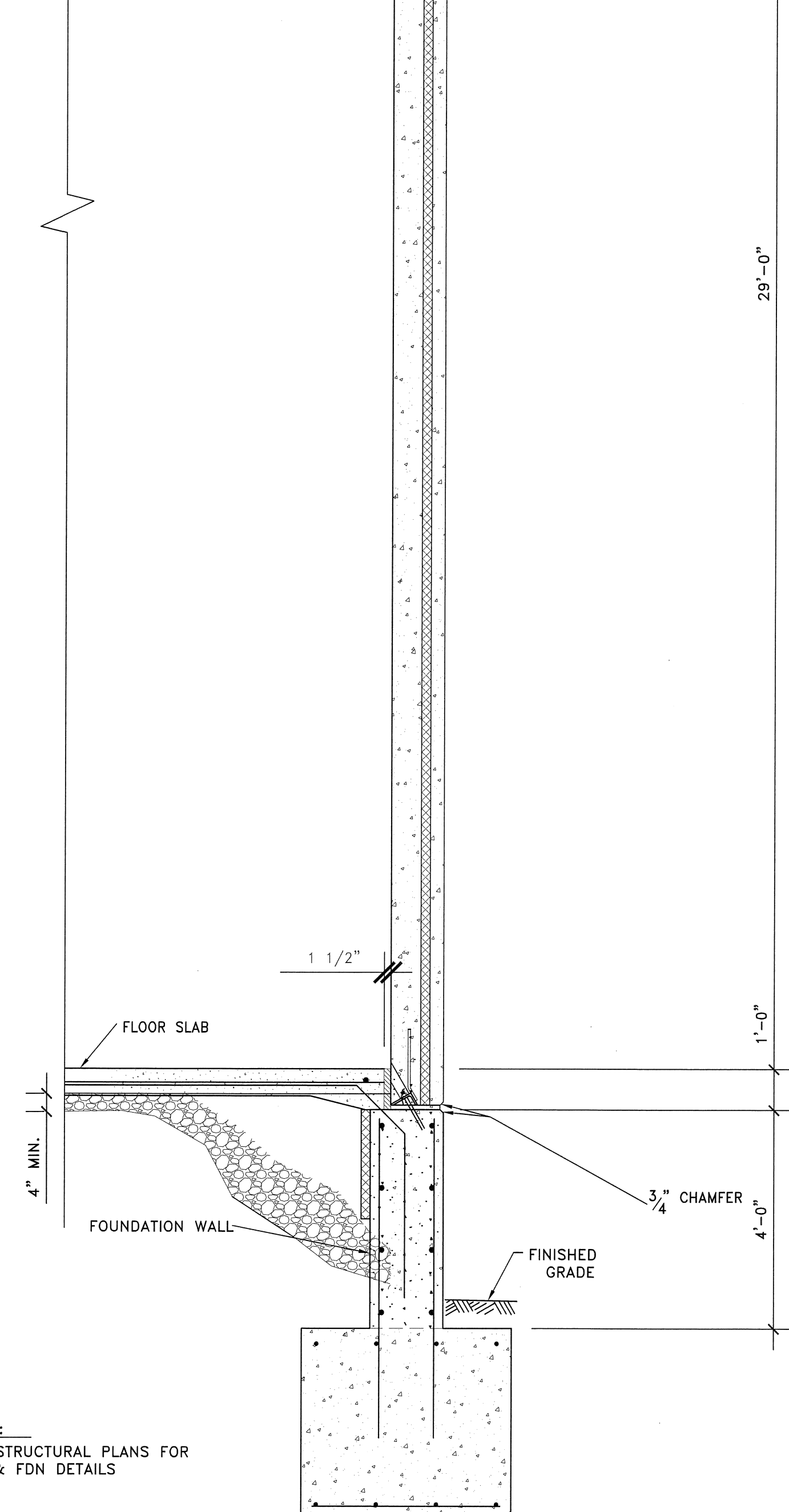
4 TYP. WALL SECTION @ OFFICE
SCALE: 1/2"=1'-0"



3 TYP. WALL SECTION @ OFFICE
SCALE: 1/2"=1'-0"



2 TYP. WALL SECTION @ WAREHOUSE
SCALE: 1/2"=1'-0"



1 TYP. WALL SECTION @ WAREHOUSE
SCALE: 1/2"=1'-0"

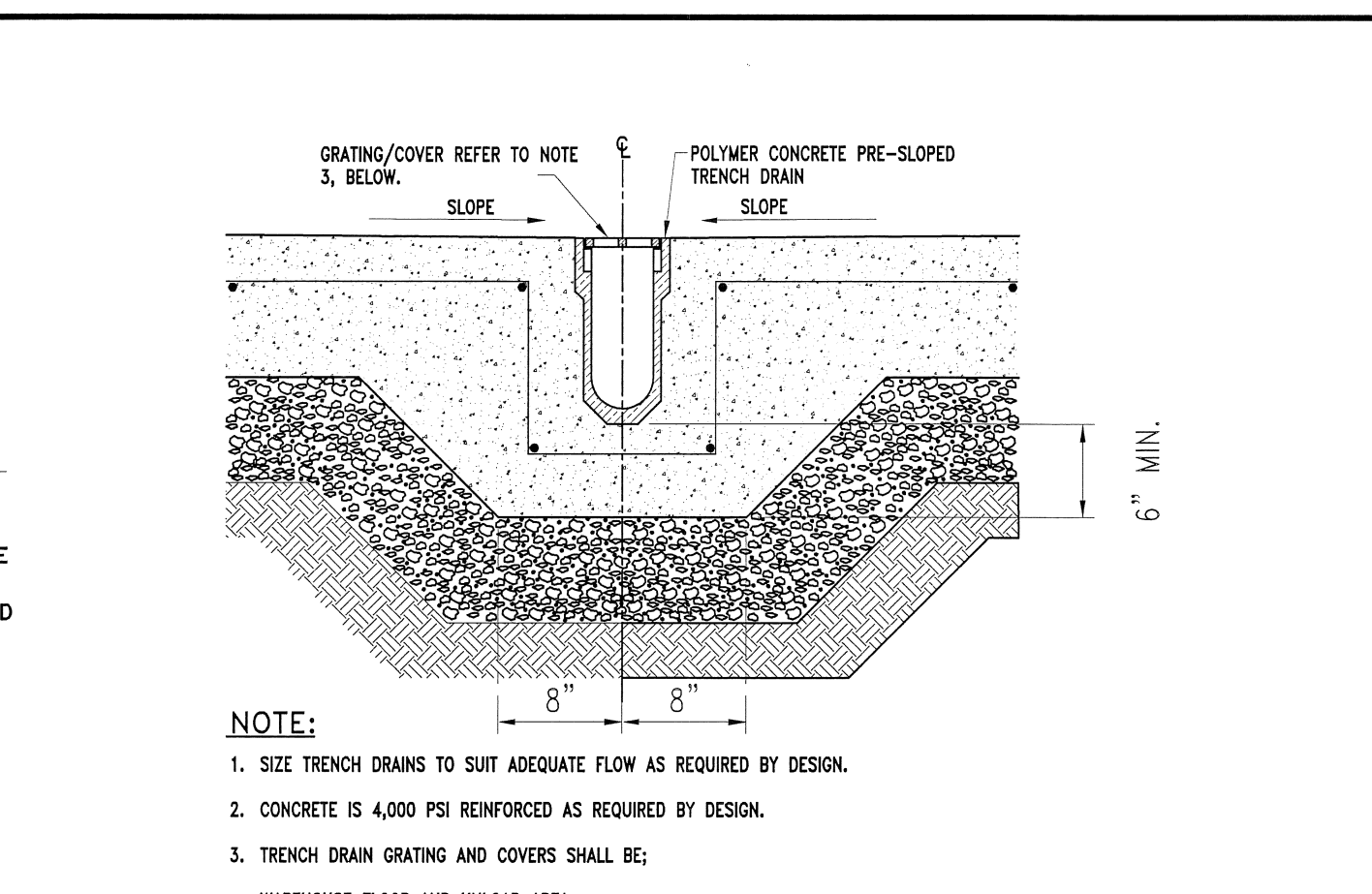
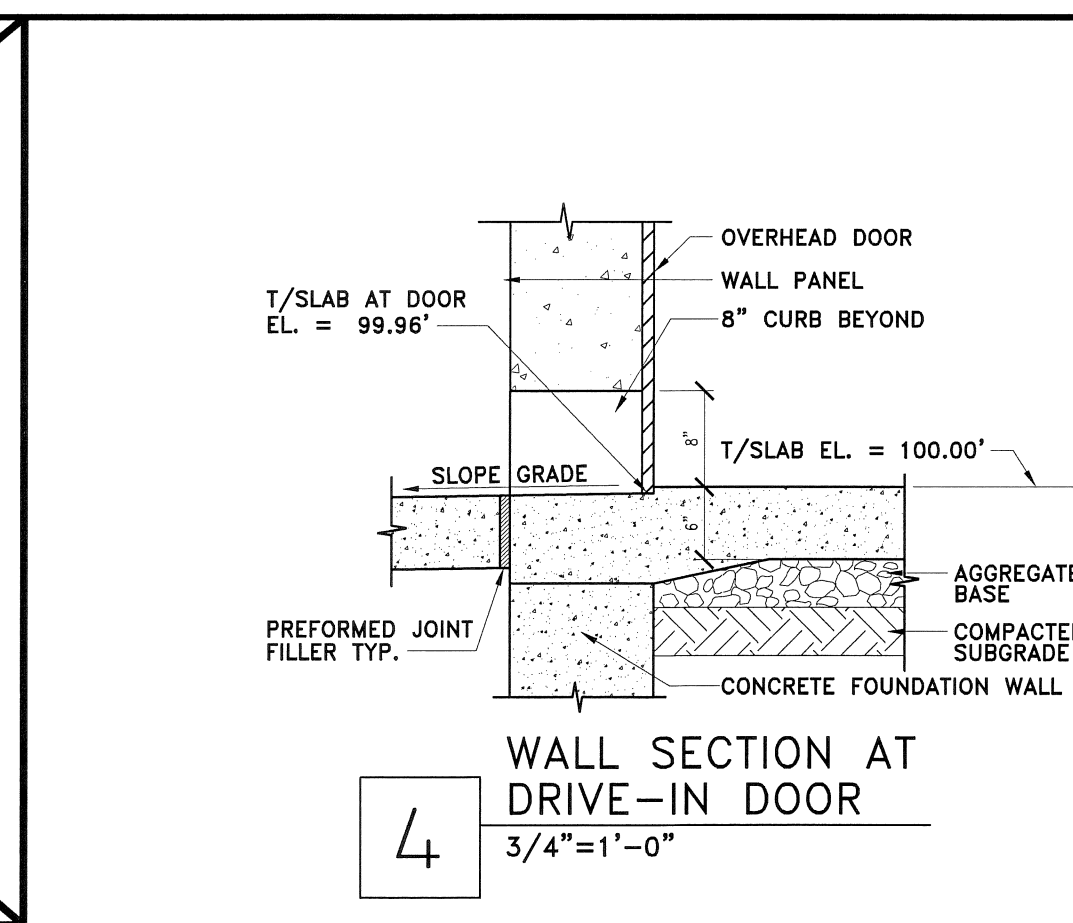
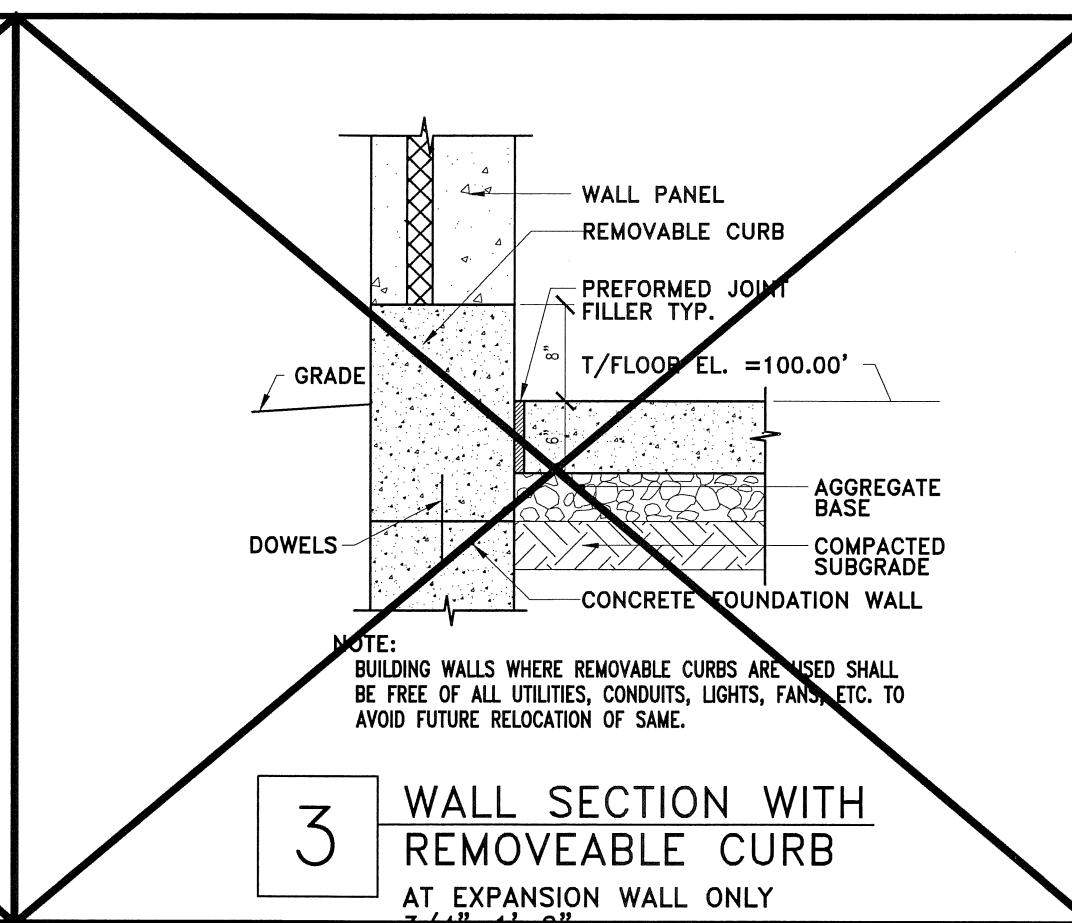
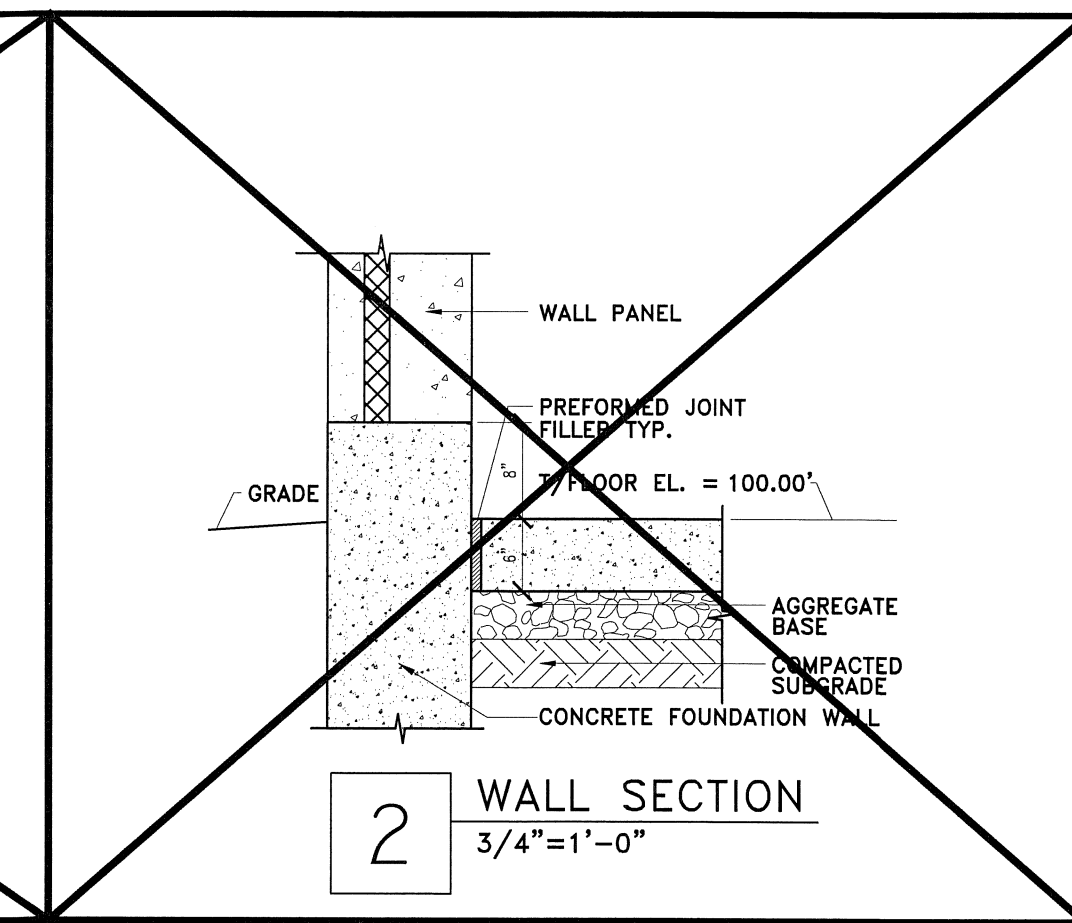
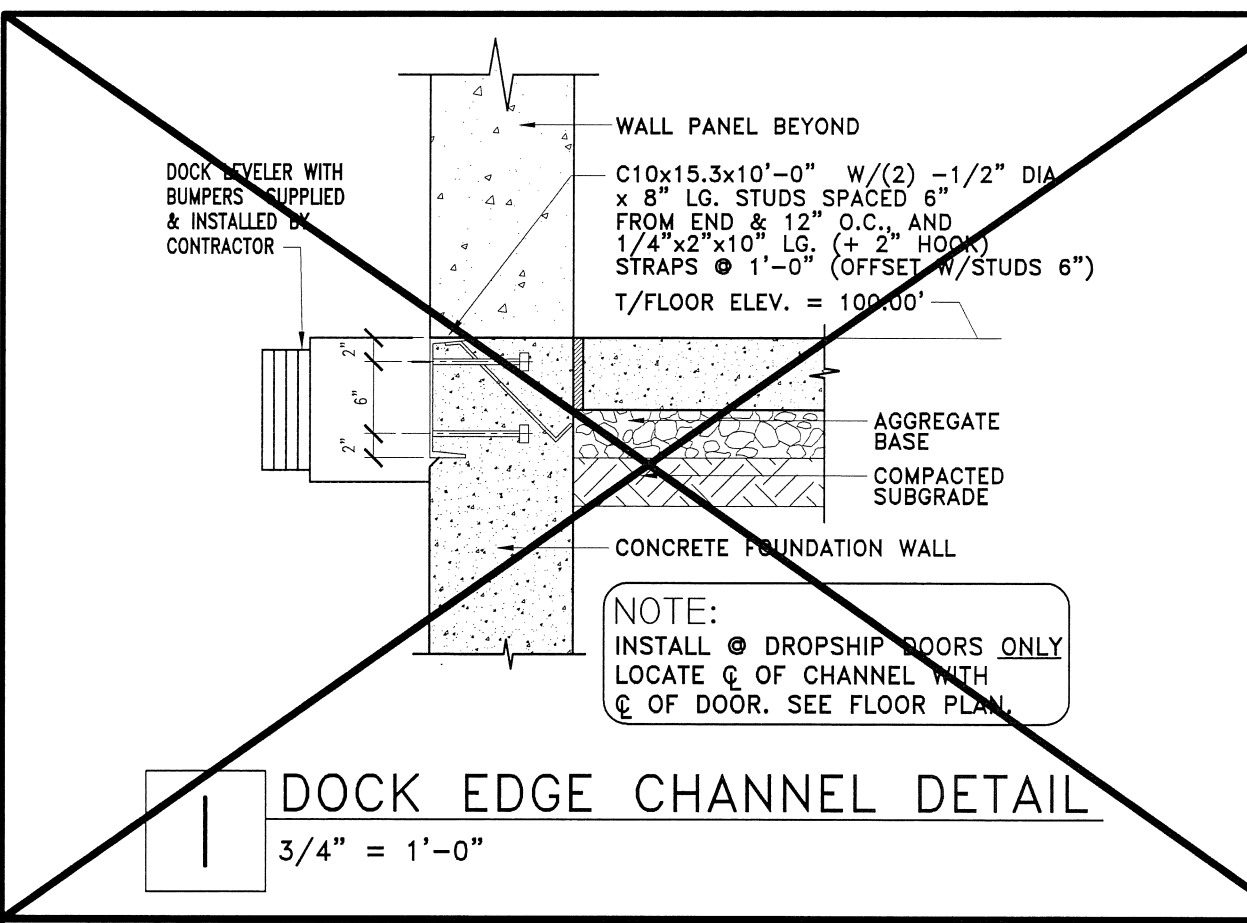
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09.14.09

NOTE:
SEE STRUCTURAL PLANS FOR
FTG & FDN DETAILS

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FTG & FDN DETAILS

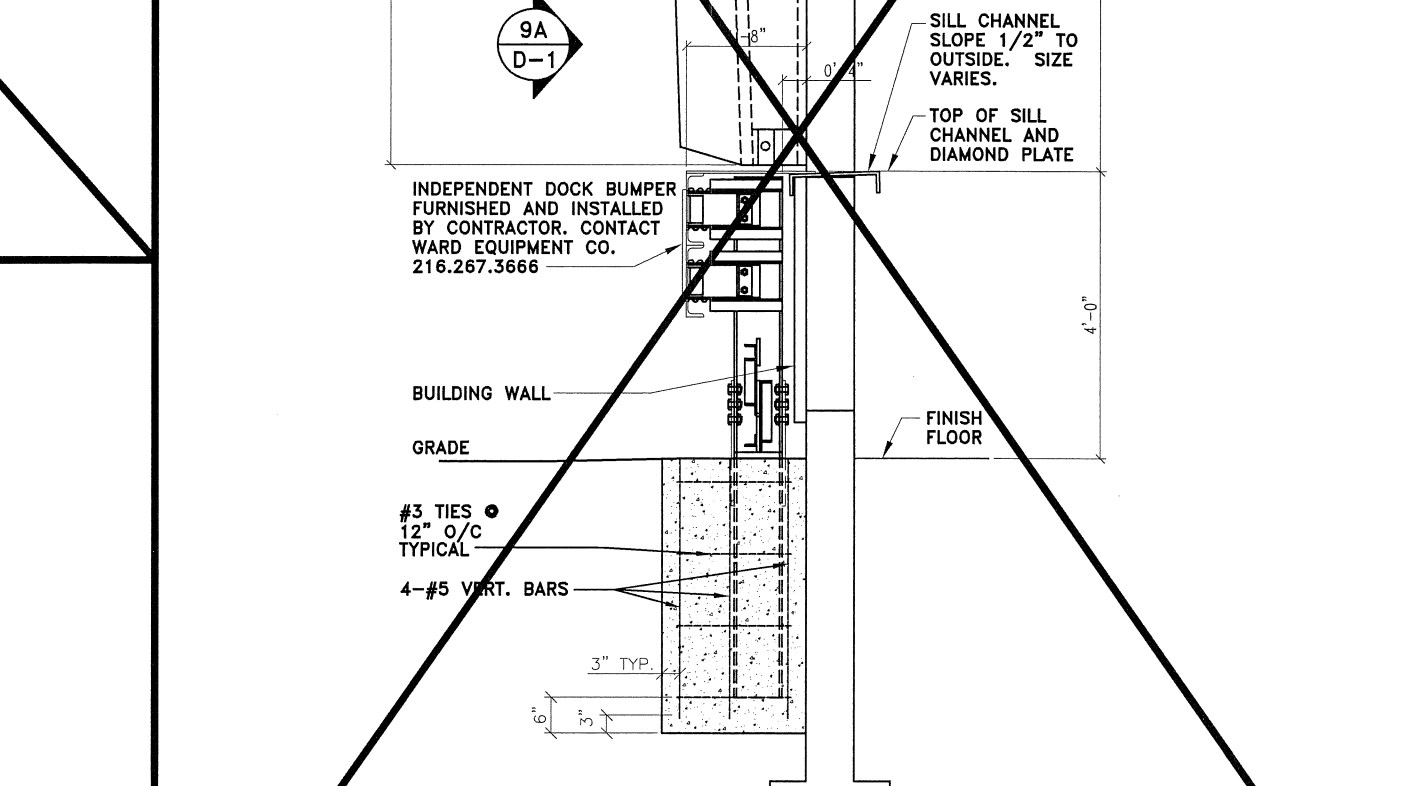
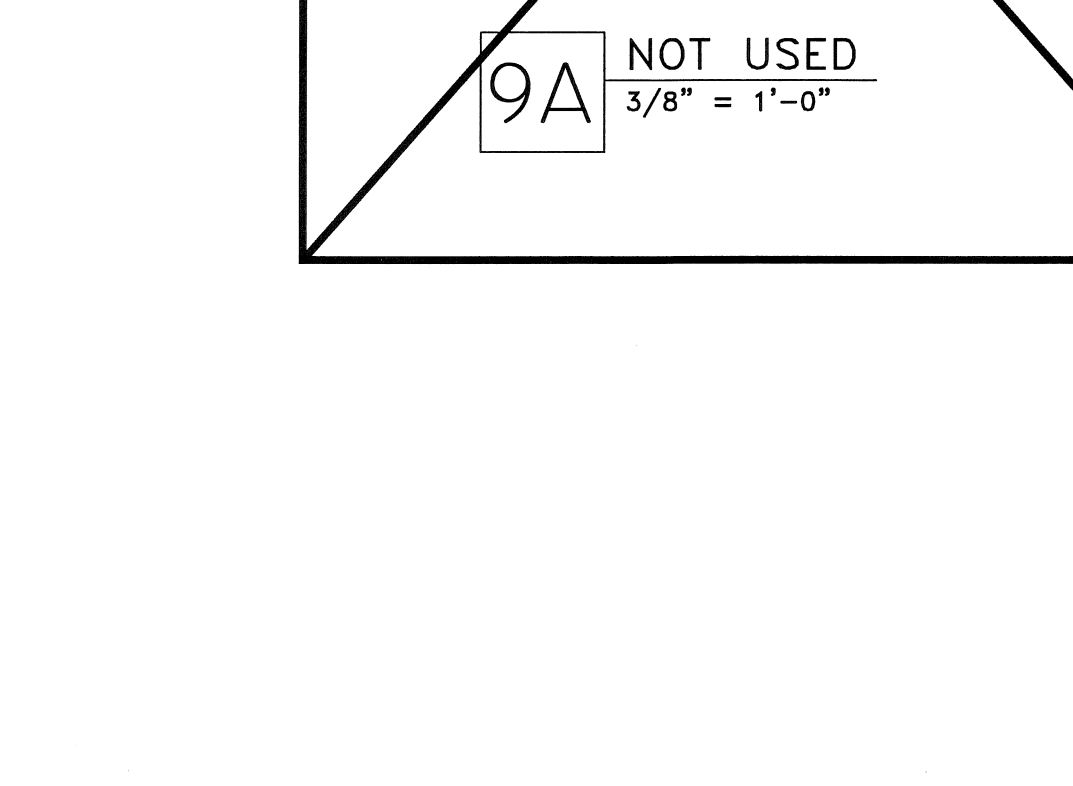
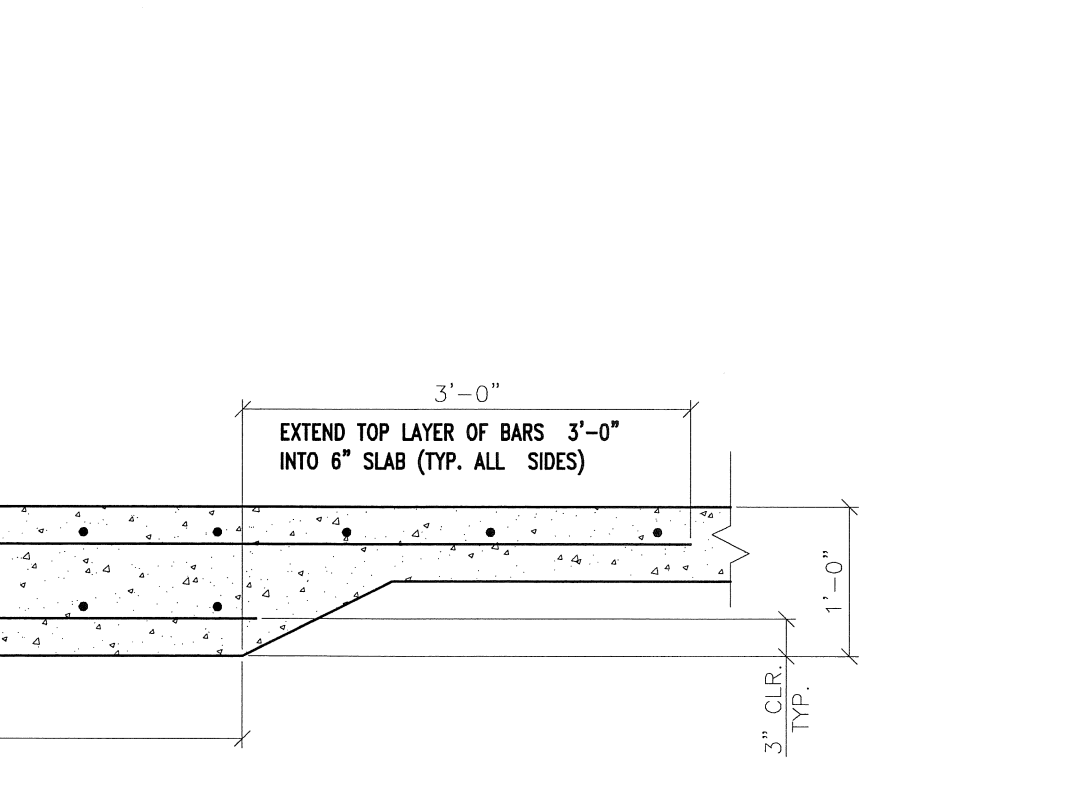
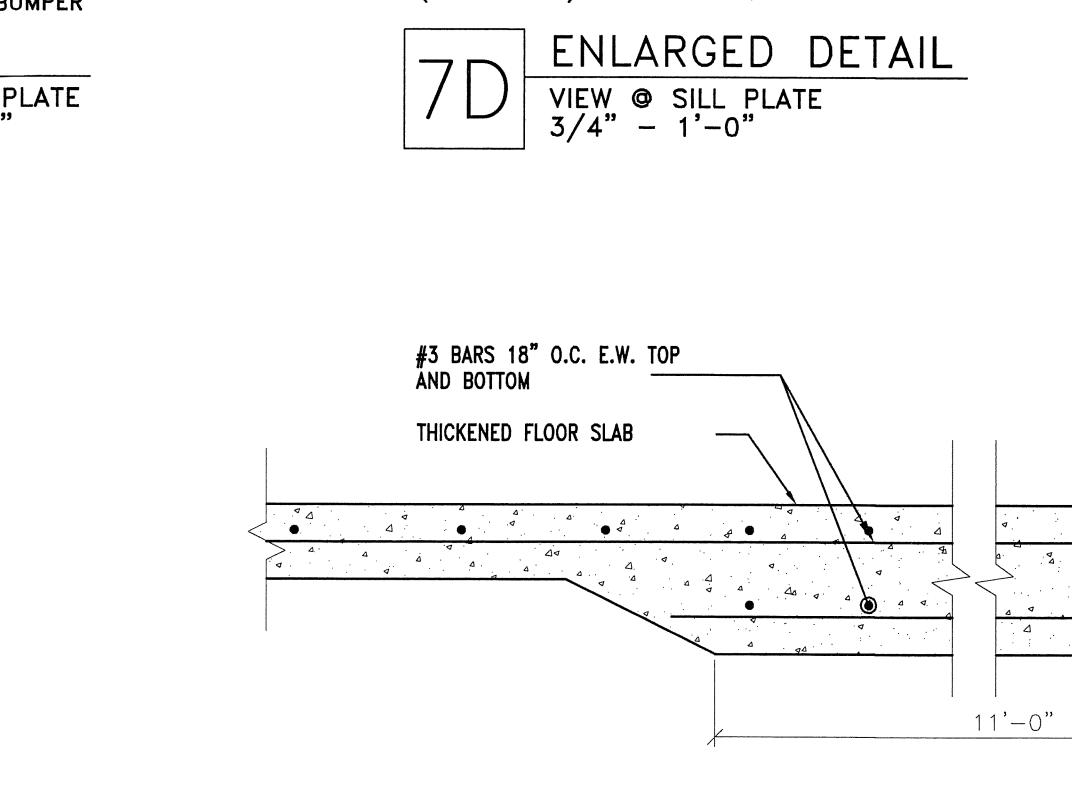
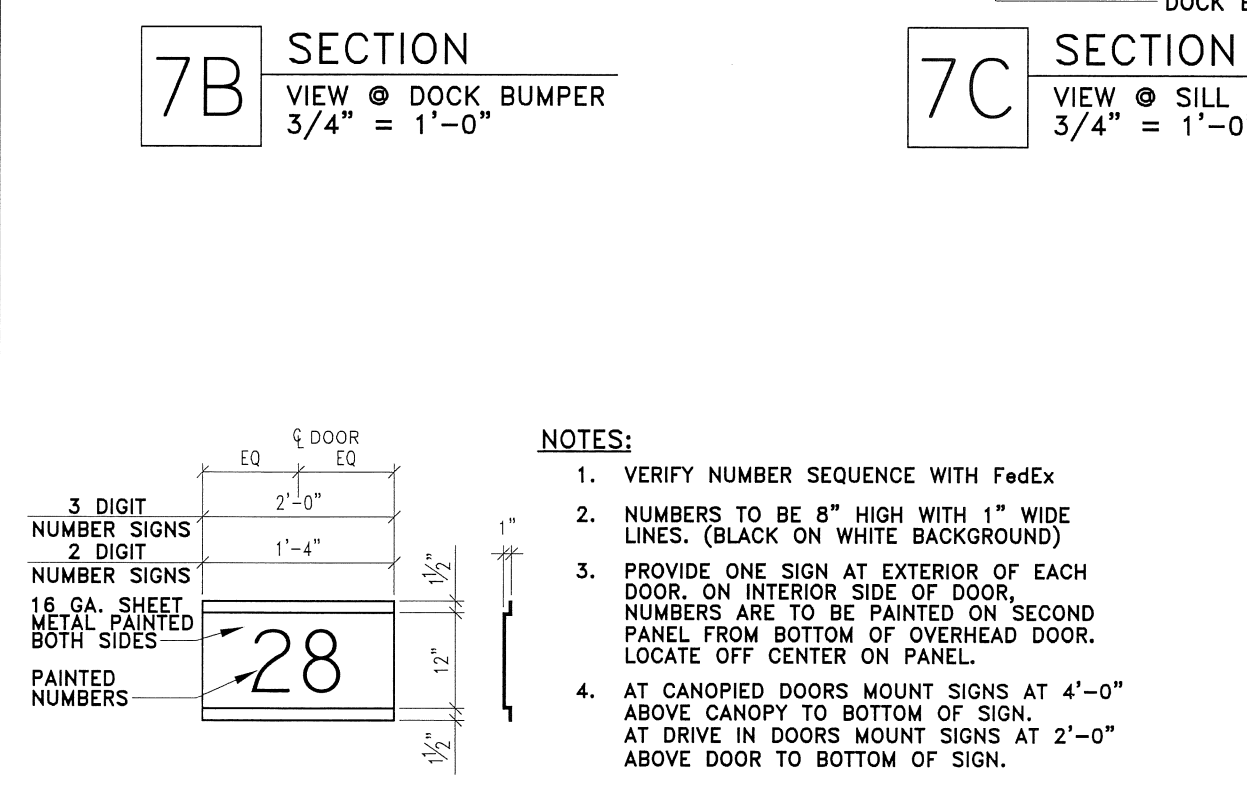
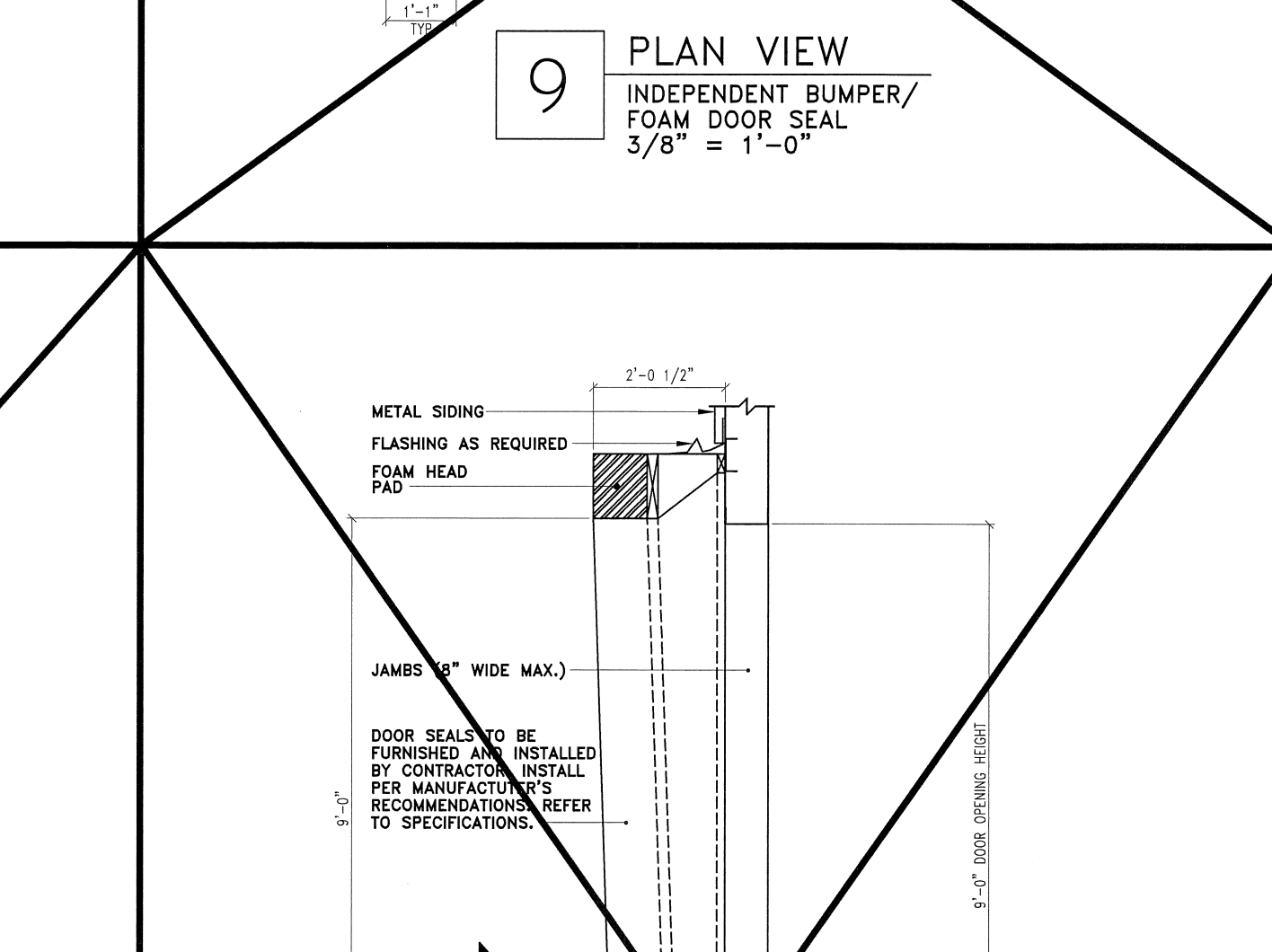
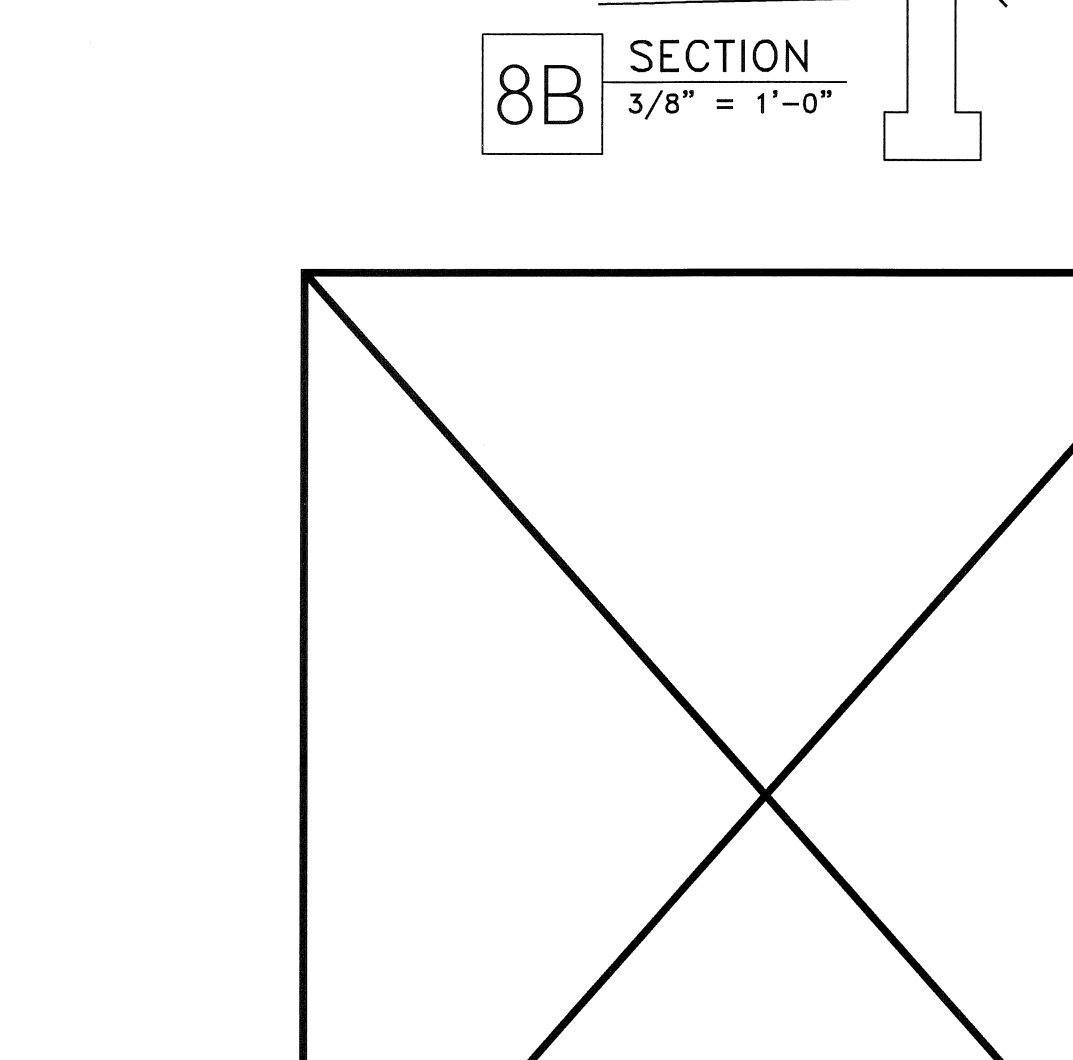
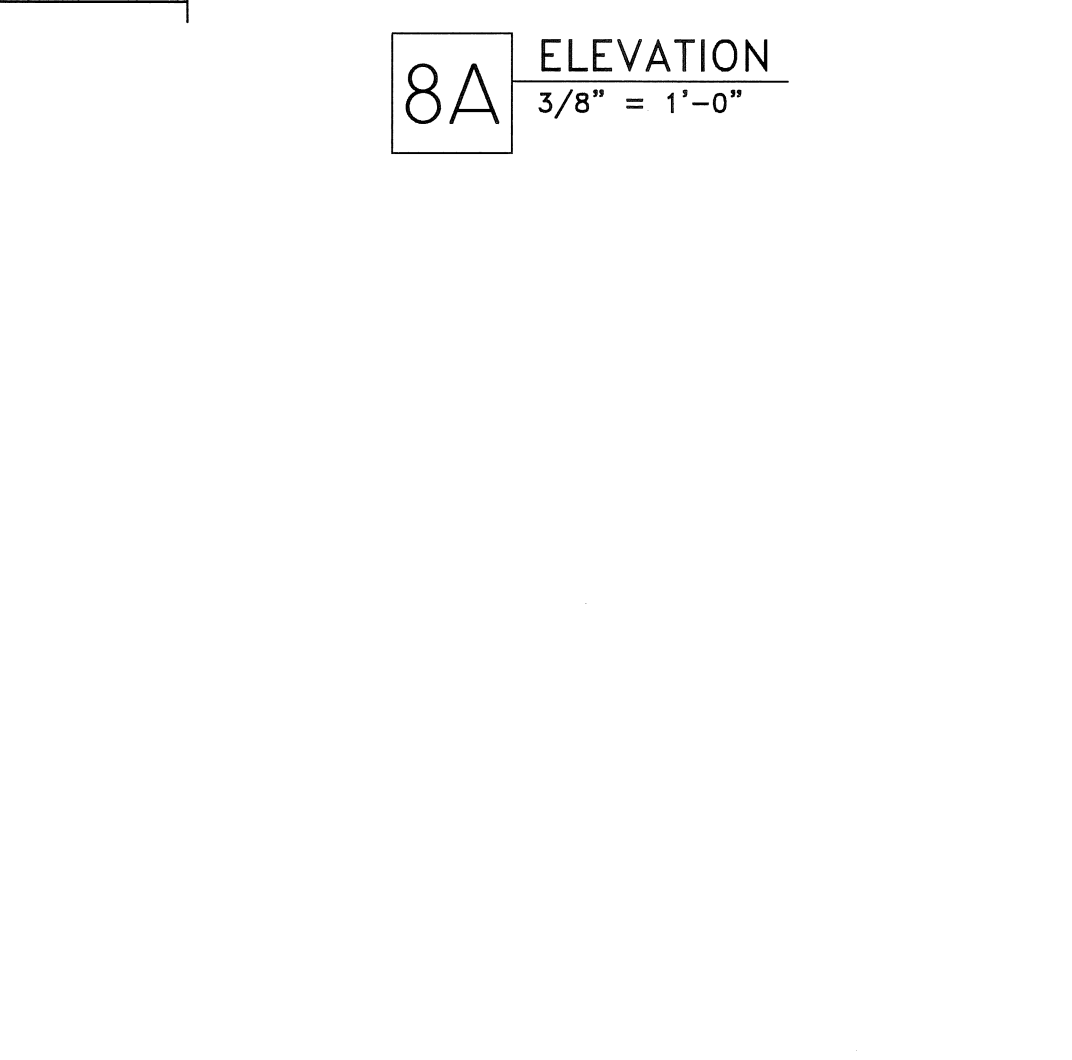
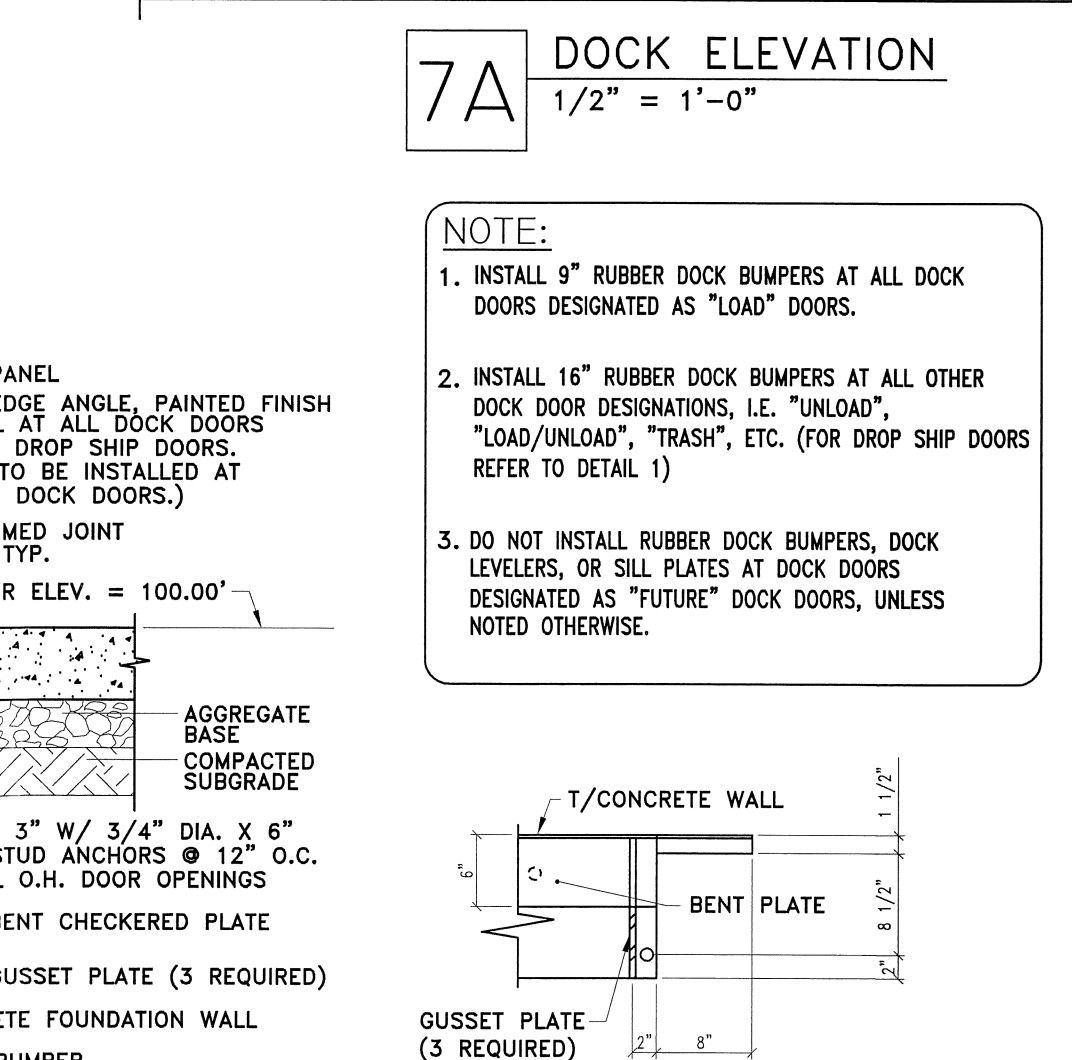
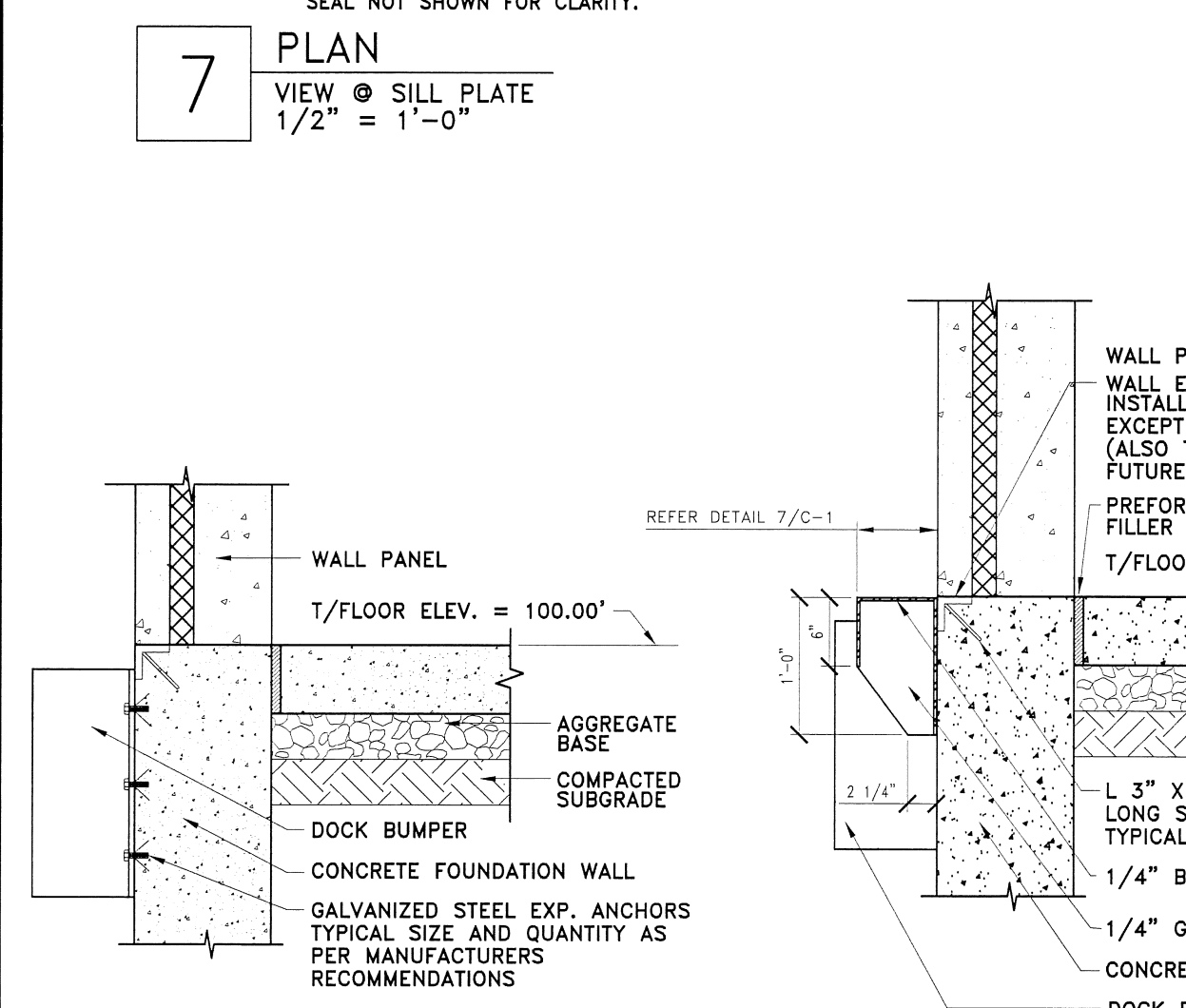
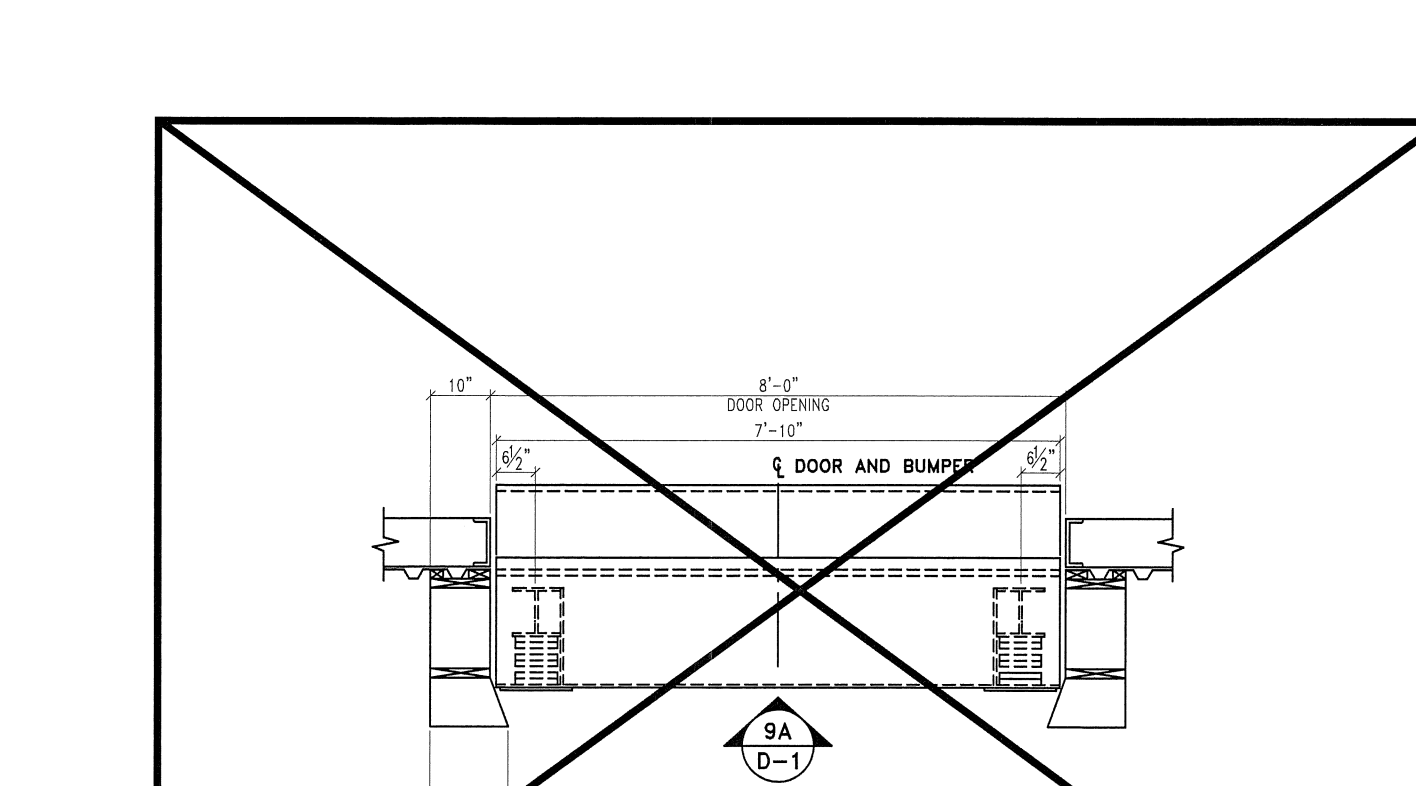
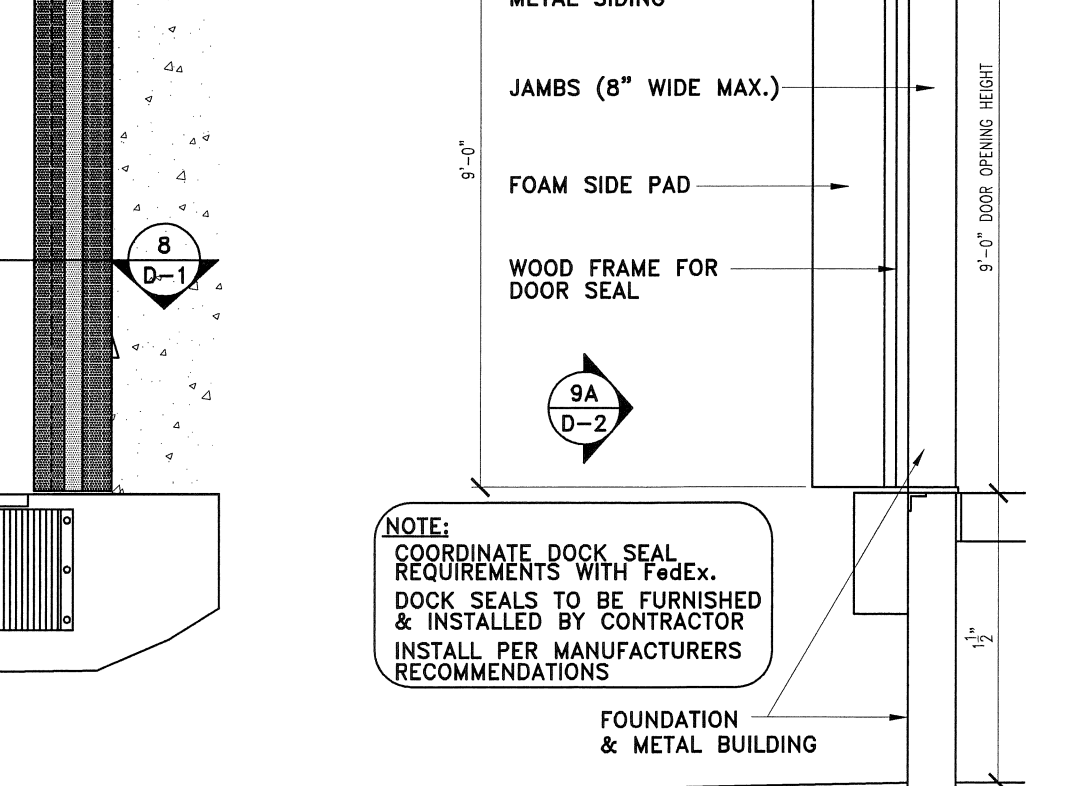
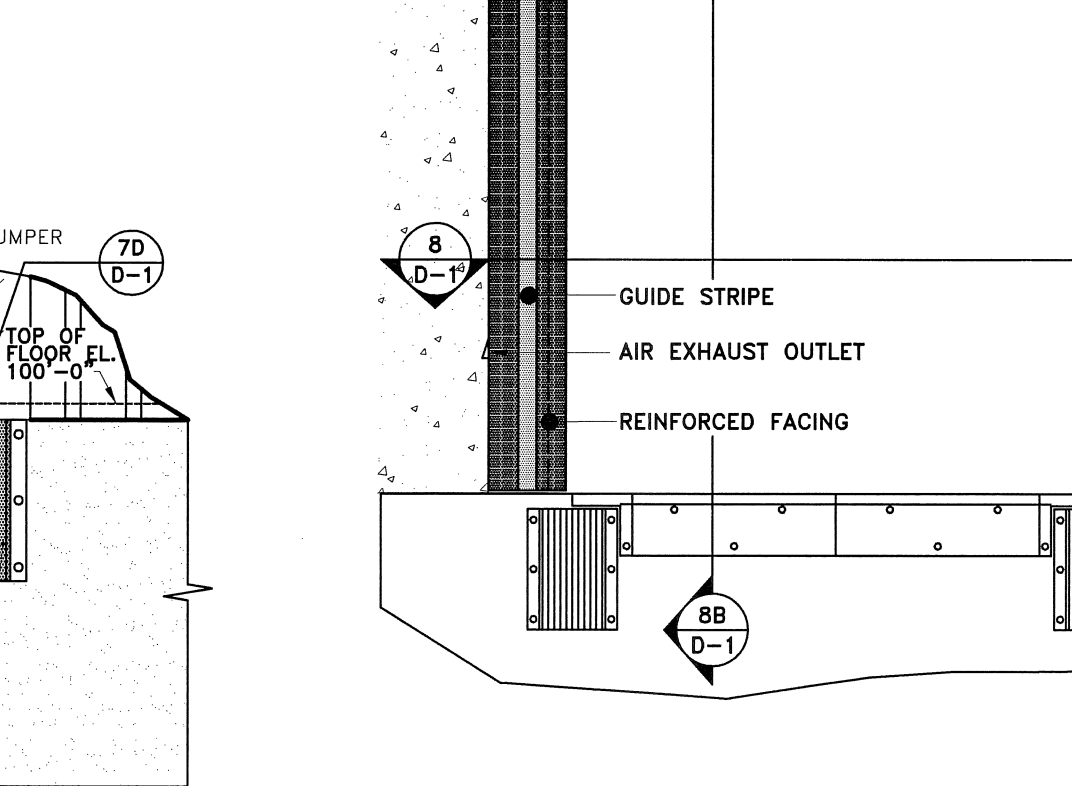
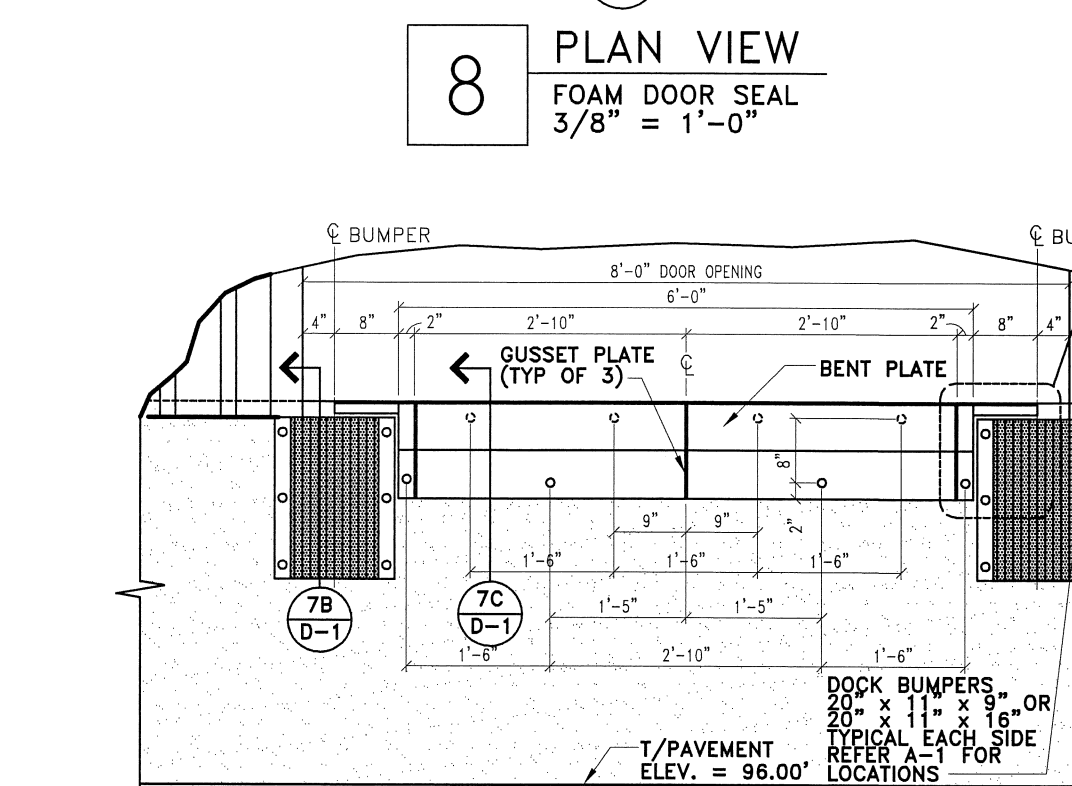
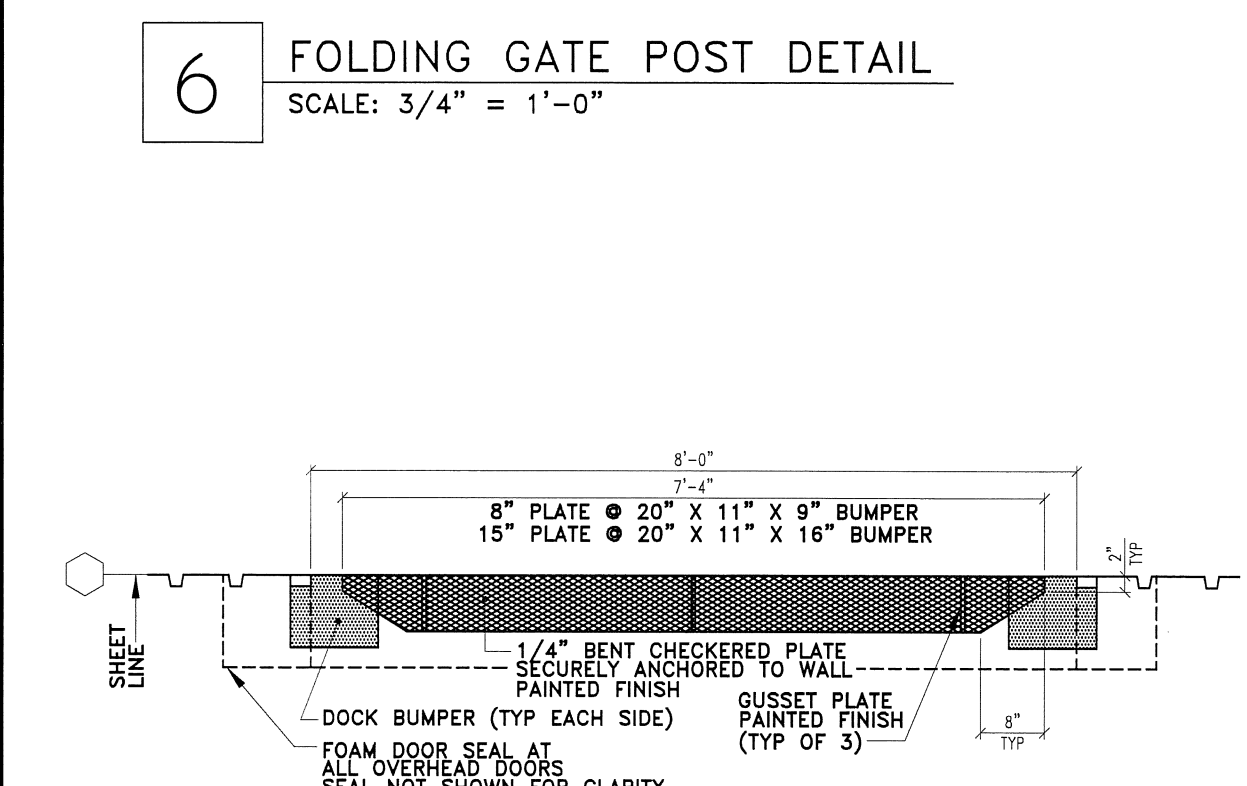
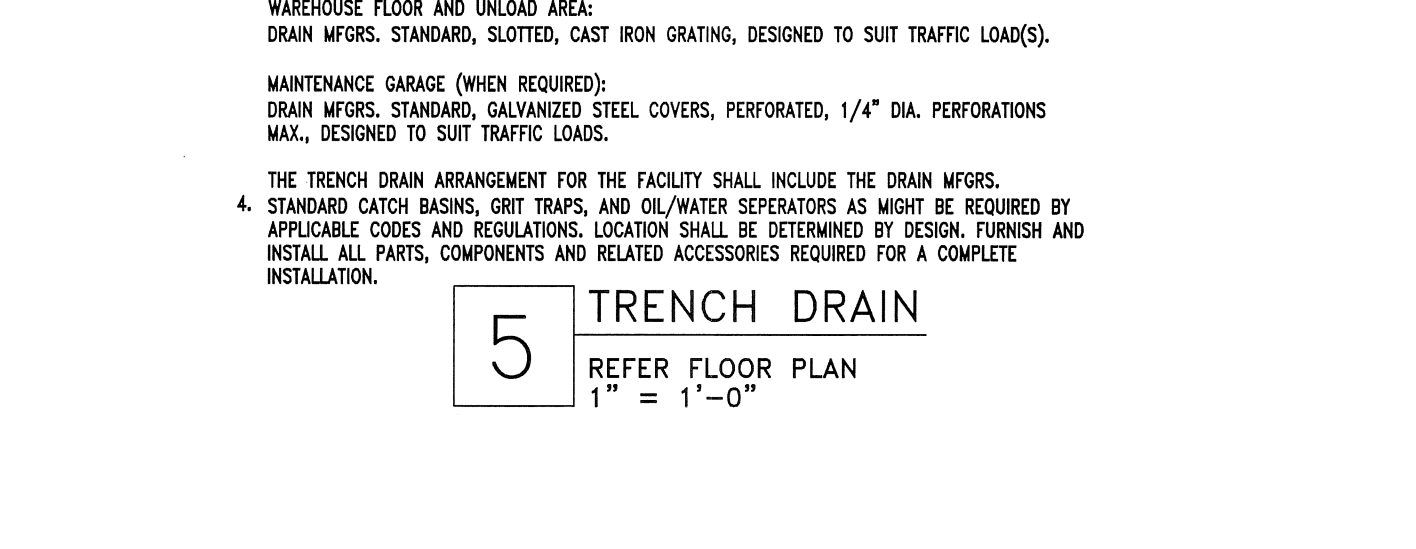
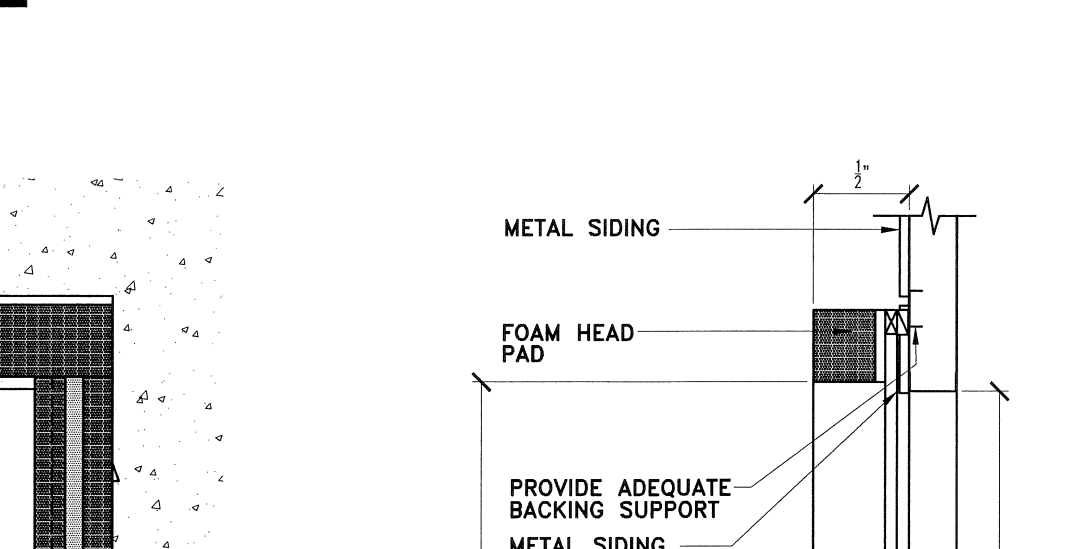
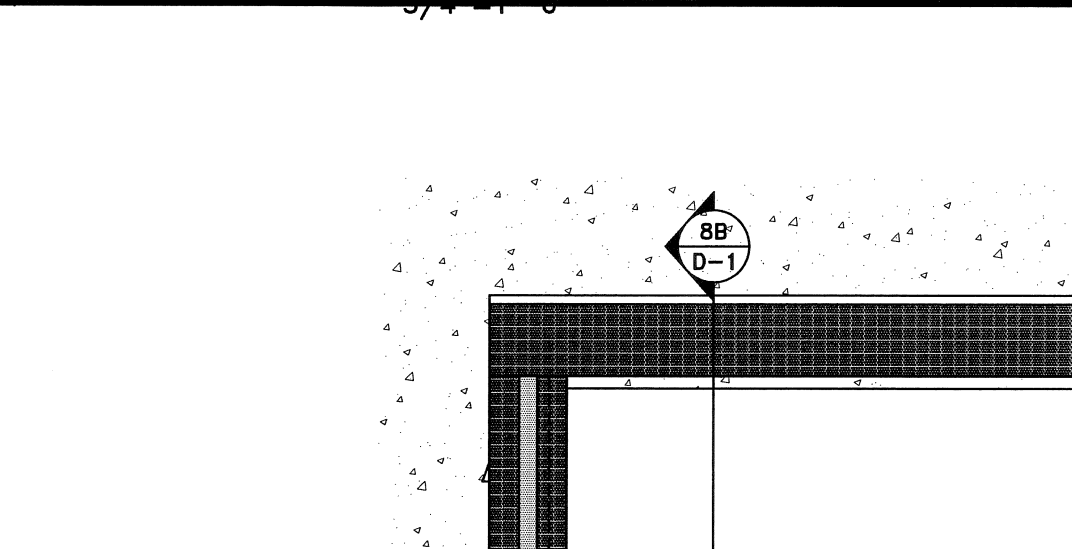
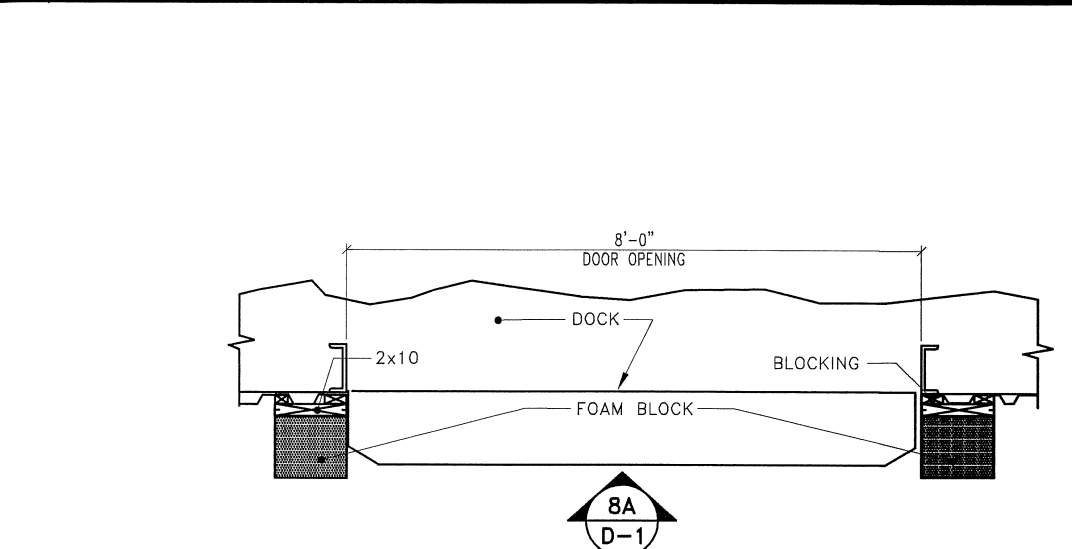
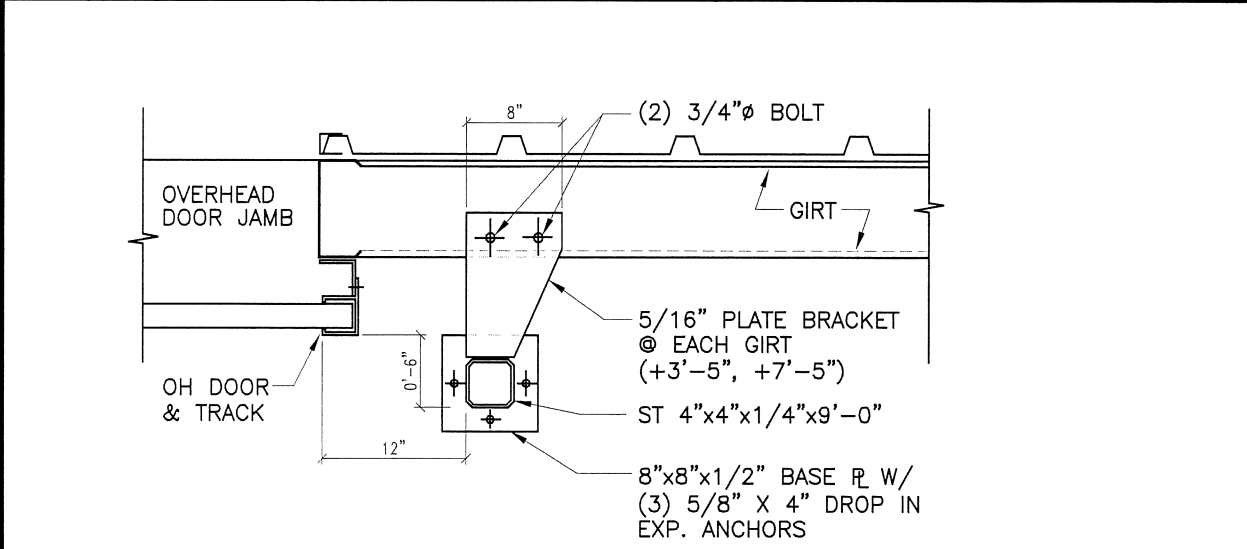
NO.	DATE	REVISIONS	BY
△	09.14.09	PROJECT RECORD	TWA
△	01.30.09	REF. MODIFICATIONS	TWA

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DATE: 01.05.09
DRAWN BY: TWA
CHECKED BY: D. NELSEN
DESIGN MANAGER: D. NELSEN



NOTE:

1. SIZE TRENCH DRAINS TO SUIT ADEQUATE FLOW AS REQUIRED BY DESIGN.
2. CONCRETE IS 4,000 PSI REINFORCED AS REQUIRED BY DESIGN.
3. TRENCH DRAIN GRATING AND COVERS SHALL BE:
 - WAREHOUSE FLOOR AND UNLOAD AREA: DRAIN MFGS. STANDARD, SLOTTED, CAST IRON GRATING, DESIGNED TO SUIT TRAFFIC LOAD(S).
 - MAINTENANCE GARAGE (WHEN REQUIRED): DRAIN MFGS. STANDARD, GALVANIZED STEEL COVERS, PERFORATED, 1/4" DIA. PERFORATIONS MAX., DESIGNED TO SUIT TRAFFIC LOADS.
4. THE TRENCH DRAIN ARRANGEMENT FOR THE FACILITY SHALL INCLUDE THE DRAIN MFGS. STANDARD CATCH BASINS, GIRT TRAYS, AND OIL/WATER SEPARATORS AS MIGHT BE REQUIRED BY APPLICABLE CODES AND REGULATIONS. LOCATION SHALL BE DETERMINED BY DESIGN. FURNISH AND INSTALL ALL PARTS, COMPONENTS AND RELATED ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.



NOTES:

1. VERIFY NUMBER SEQUENCE WITH FedEx
2. NUMBERS TO BE 8" HIGH WITH 1" WIDE LINES. (BLACK ON WHITE BACKGROUND)
3. PROVIDE ONE SIGN AT EXTERIOR OF EACH DOOR, ON INTERIOR SIDE OF DOOR. NUMBERS ARE TO BE PAINTED ON SECOND PANEL FROM BOTTOM OF OVERHEAD DOOR. LOCATE OFF CENTER ON PANEL.
4. AT CANOPIED DOORS MOUNT SIGNS AT 4'-0" ABOVE CANOPY TO BOTTOM OF SIGN. AT DRIVE IN DOORS MOUNT SIGNS AT 2'-0" ABOVE DOOR TO BOTTOM OF SIGN.
5. SIGNS ARE FURNISHED AND INSTALLED BY CONTRACTOR.

NOTE:

1. INSTALL 9" RUBBER DOCK BUMPERS AT ALL DOCK DOORS DESIGNATED AS "LOAD" DOORS.
2. INSTALL 16" RUBBER DOCK BUMPERS AT ALL OTHER DOCK DOOR DESIGNATIONS, I.E. "UNLOAD", "LOAD/UNLOAD", "TRASH", ETC. (FOR DROP SHIP DOORS REFER TO DETAIL 1)
3. DO NOT INSTALL RUBBER DOCK BUMPERS, DOCK LEVELERS, OR SILL PLATES AT DOCK DOORS DESIGNATED AS "FUTURE" DOCK DOORS, UNLESS NOTED OTHERWISE.

NOTE:

COORDINATE DOCK SEAL REQUIREMENTS WITH FedEx. DOCK SEALS TO BE FURNISHED & INSTALLED BY CONTRACTOR. INSTALL PER MANUFACTURERS RECOMMENDATIONS

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COORDINATE DOCK SEAL REQUIREMENTS WITH FedEx. DOCK SEALS TO BE FURNISHED & INSTALLED BY CONTRACTOR. INSTALL PER MANUFACTURERS RECOMMENDATIONS

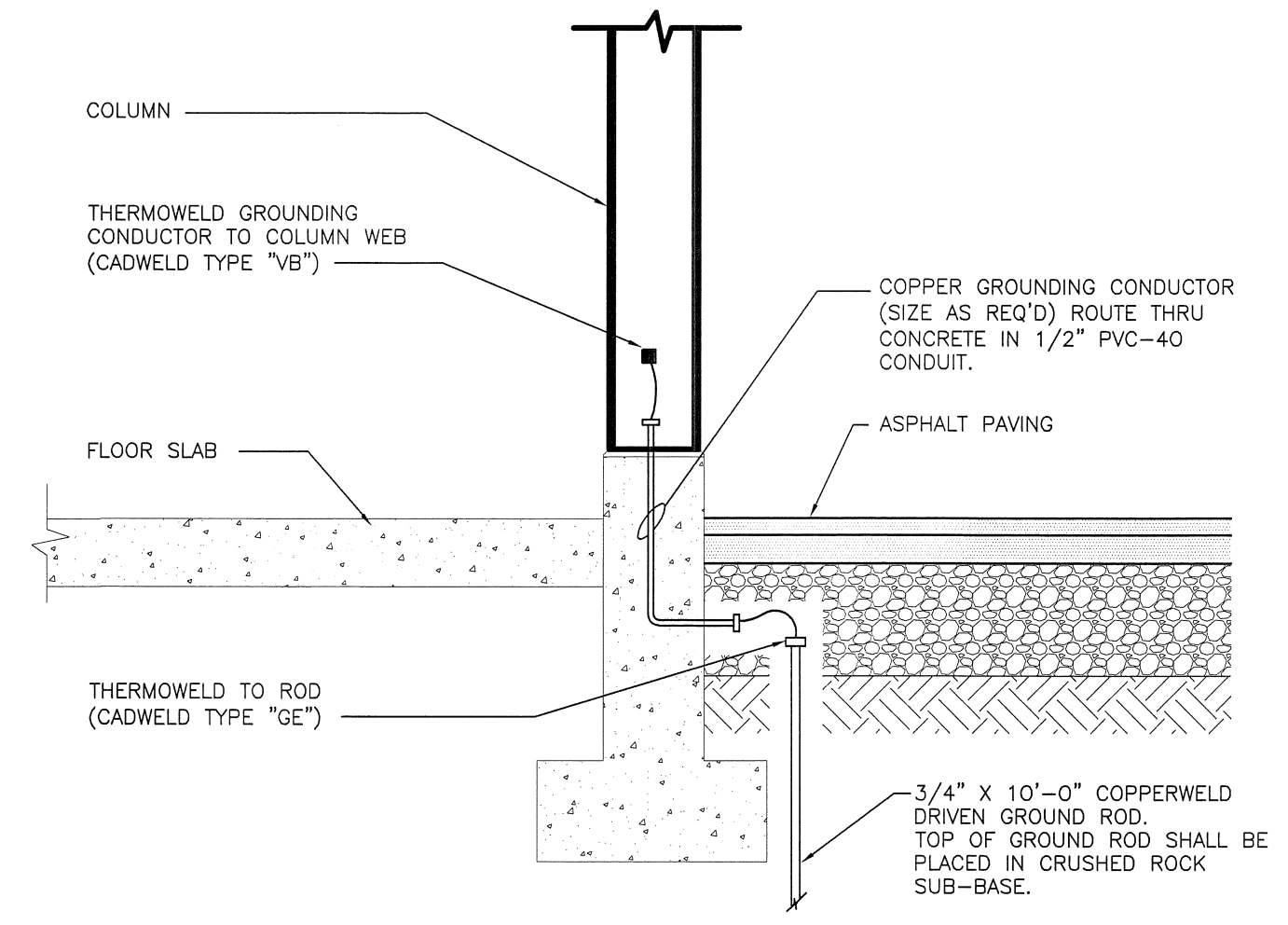
NOTE:

COORDINATE DOCK SEAL REQUIREMENTS WITH FedEx. DOCK SEALS TO BE FURNISHED & INSTALLED BY CONTRACTOR. CONTACT WARD EQUIPMENT CO. 216.267.3666

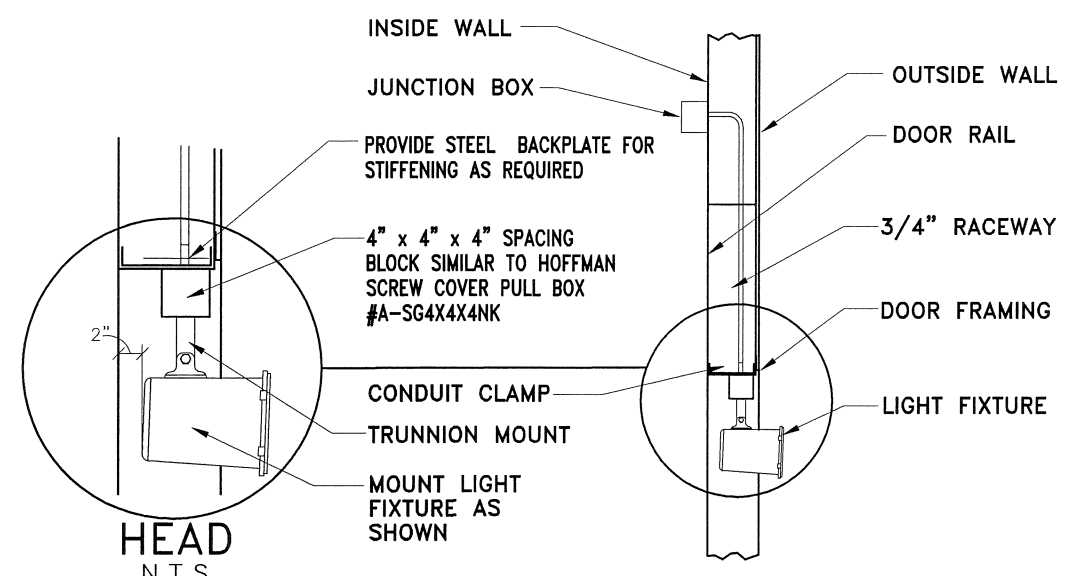
PROJECT RECORD
09.14.09

NO.	DATE	REVISIONS	BY
△	09.14.09	PROJECT RECORD	TWA
△	02.16.09	DETAIL DIMENSIONS	TWA
△	01.30.09	REF. MODIFICATIONS	TWA

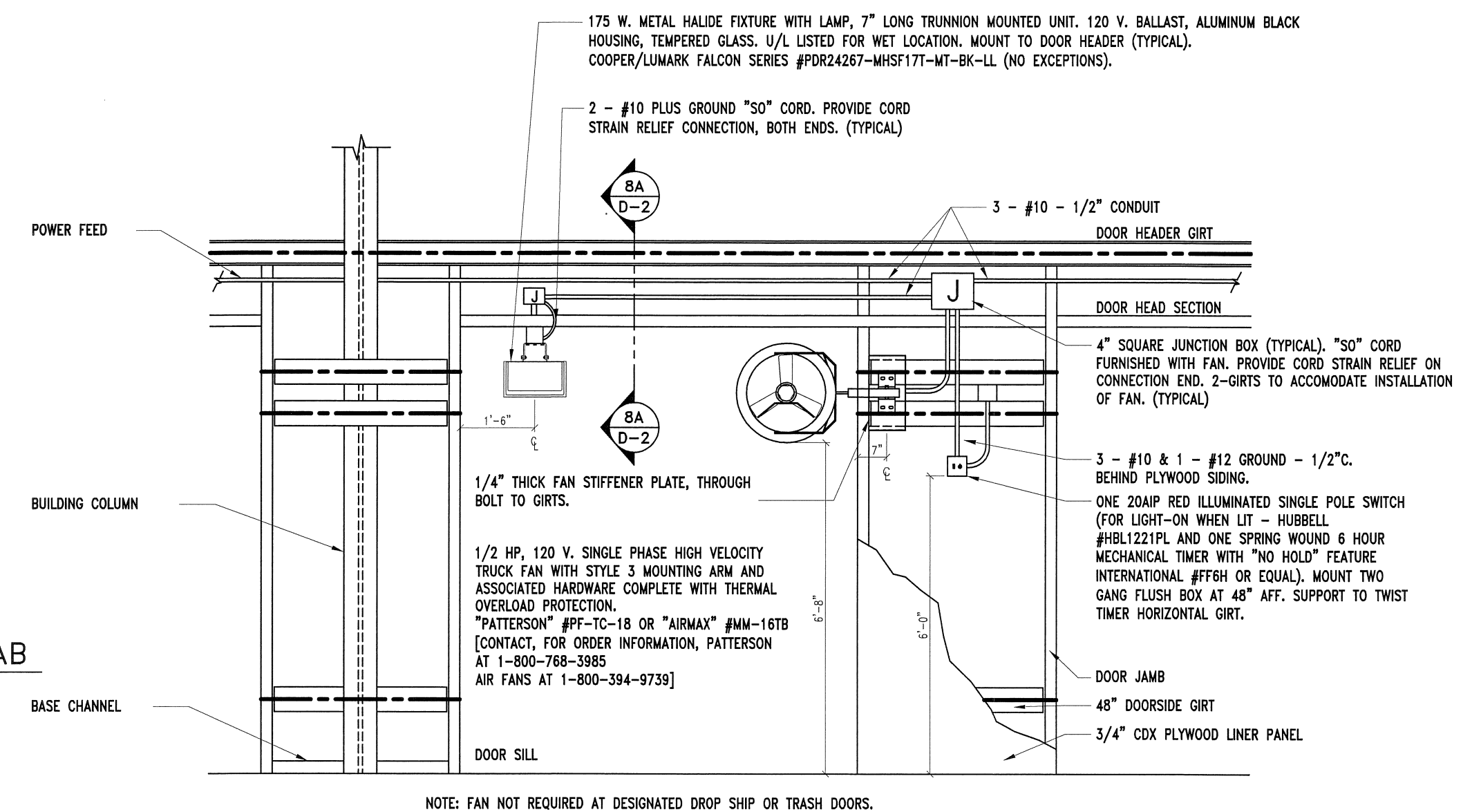
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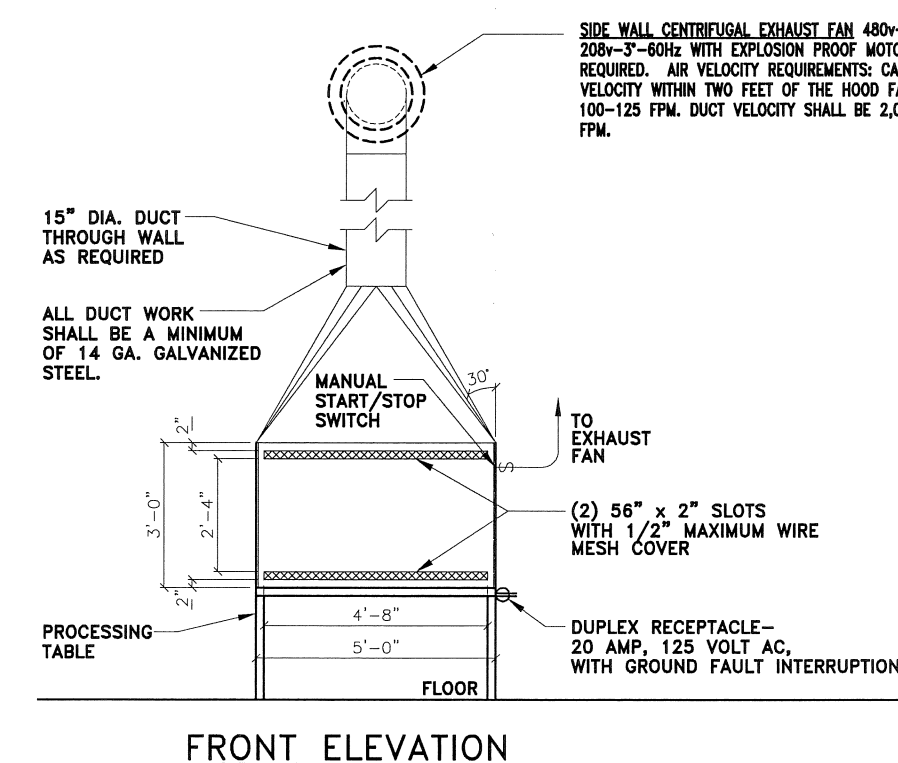
4 GROUNDING DETAIL - GRADE LEVEL FLOOR SLAB
SCALE: 3/4" = 1'-0"



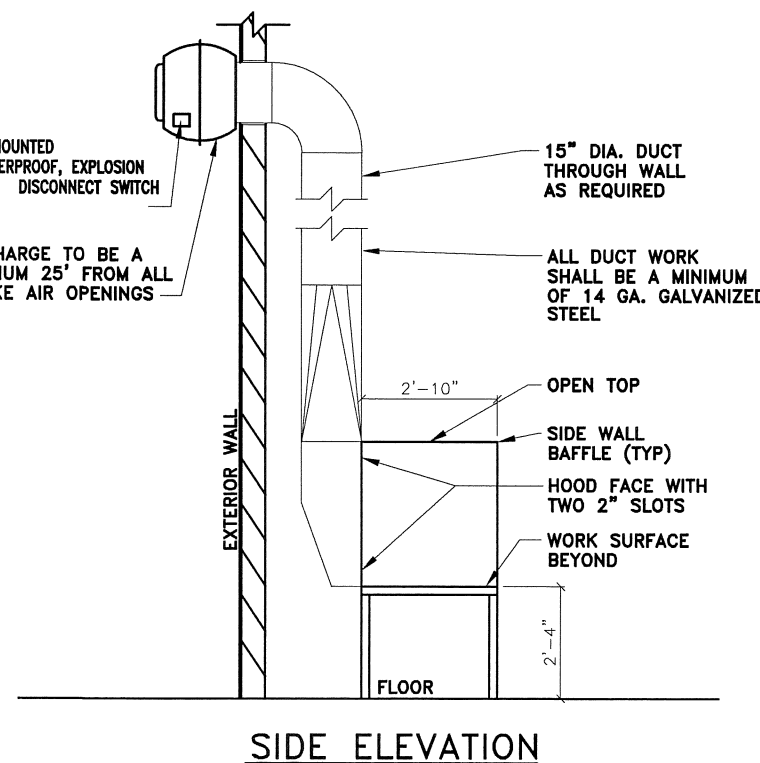
8A SECTION
TYP. DETAIL - LIGHT AT ALL TRAILER DOCK DOORS
3/8" = 1'-0"



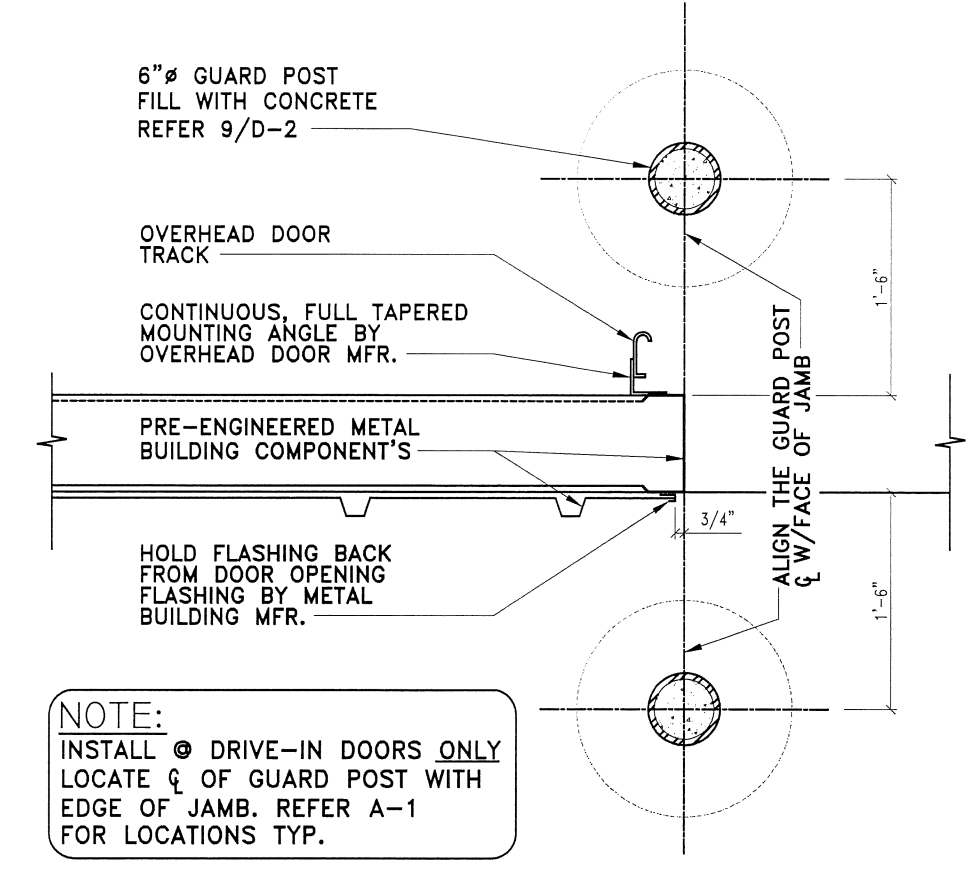
8 TASK LIGHT FIXTURE & FAN @ DOCK DOOR DETAIL
3/8" = 1'-0"



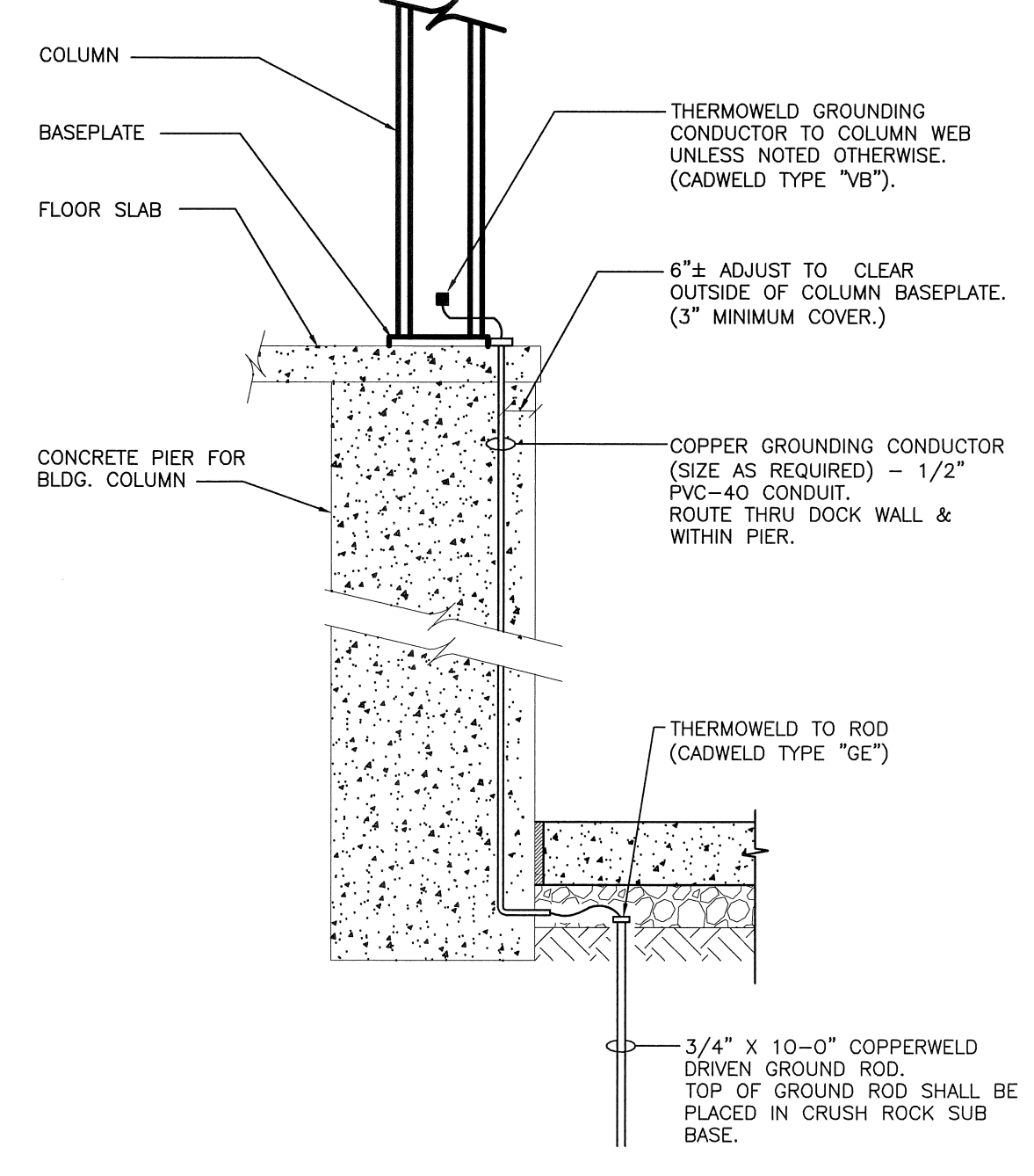
3 SPECIAL HANDLING EXHAUST DETAIL
SCALE: 1/4" = 1'-0"



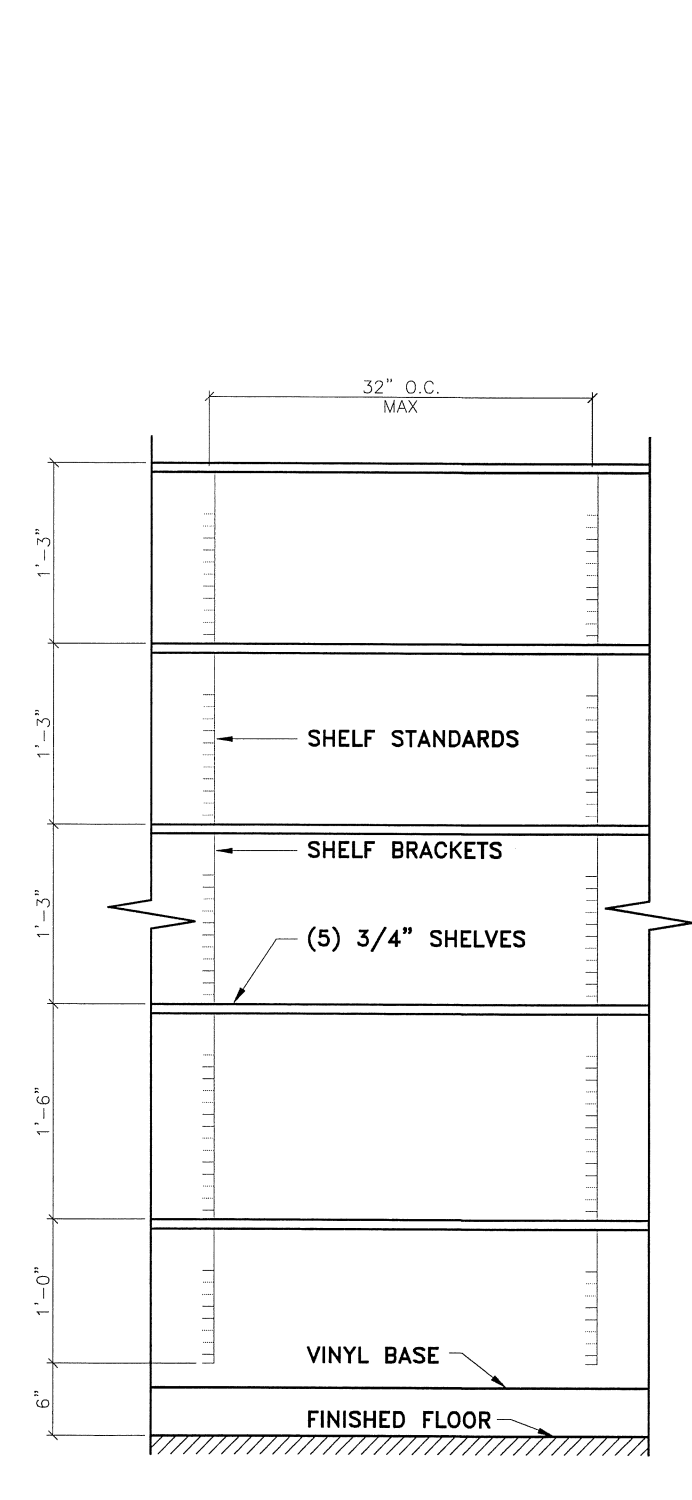
2 APPLICATIONS/SERVICE MANAGER COUNTER SECTION
1/2" = 1'-0"



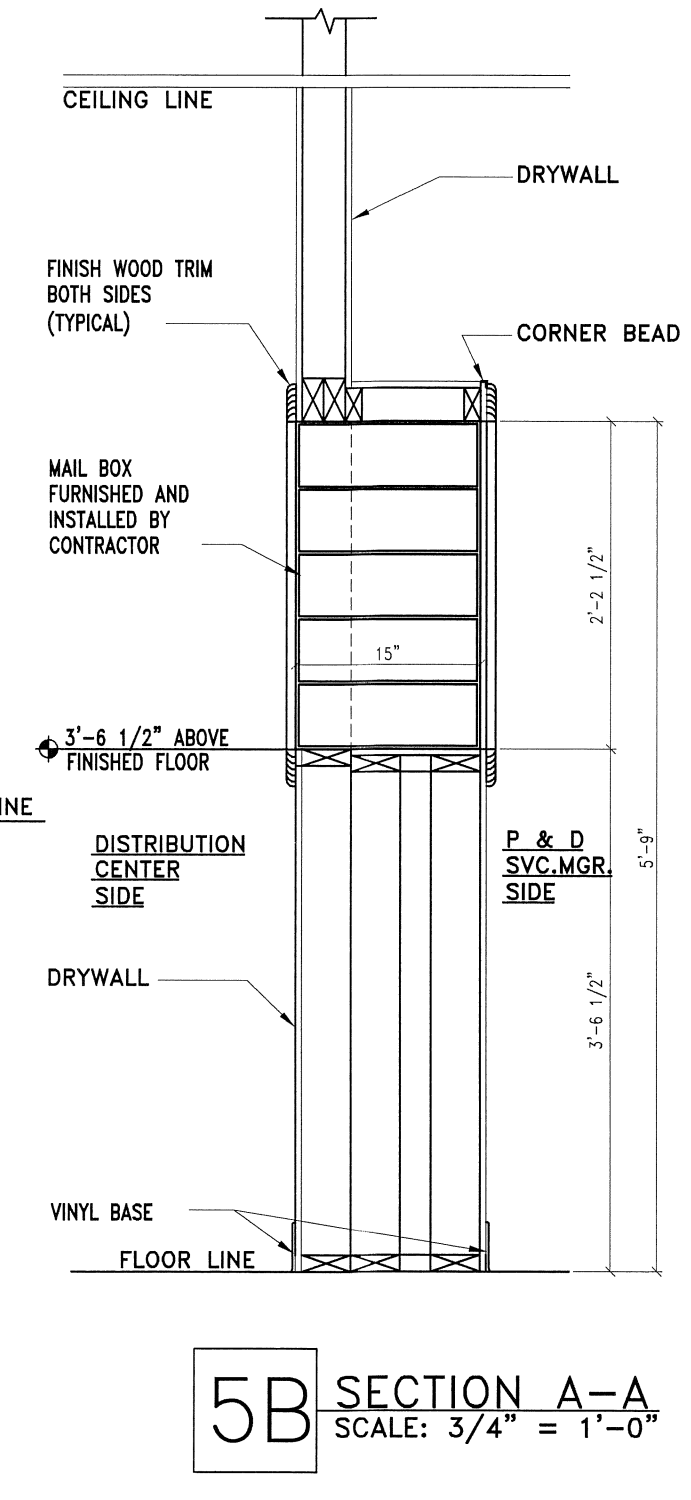
1 GUARD POST DETAIL
3/4" = 1'-0"



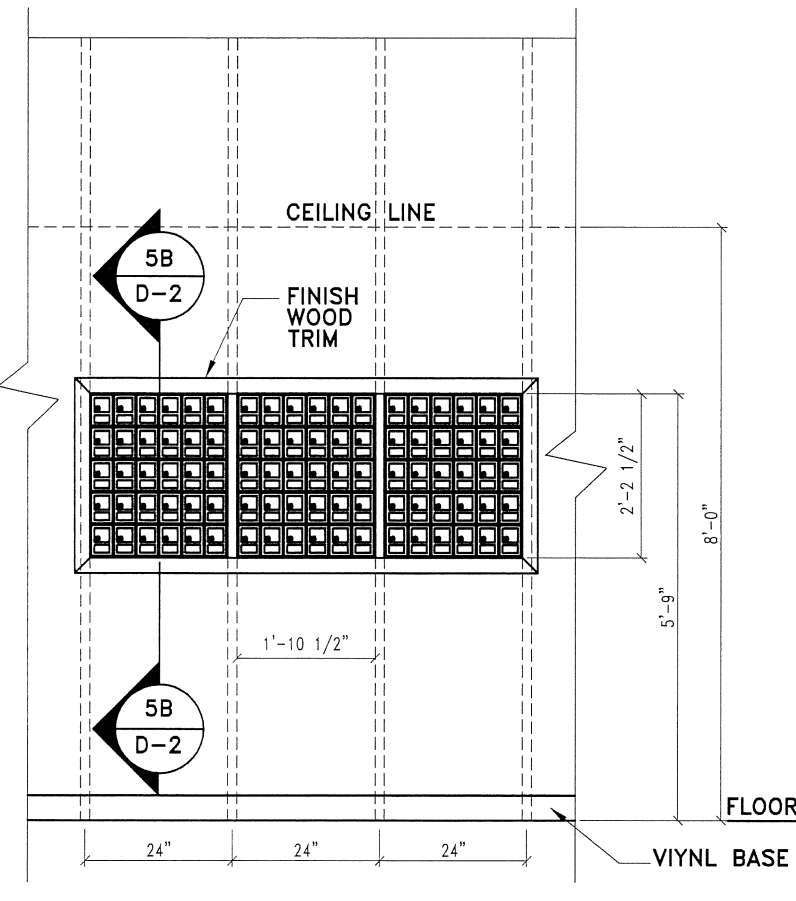
7 GROUNDING DETAIL - RAISED LEVEL FLOOR SLAB
SCALE: 3/4" = 1'-0"



6 SHELF DETAIL
3/4" = 1'-0"



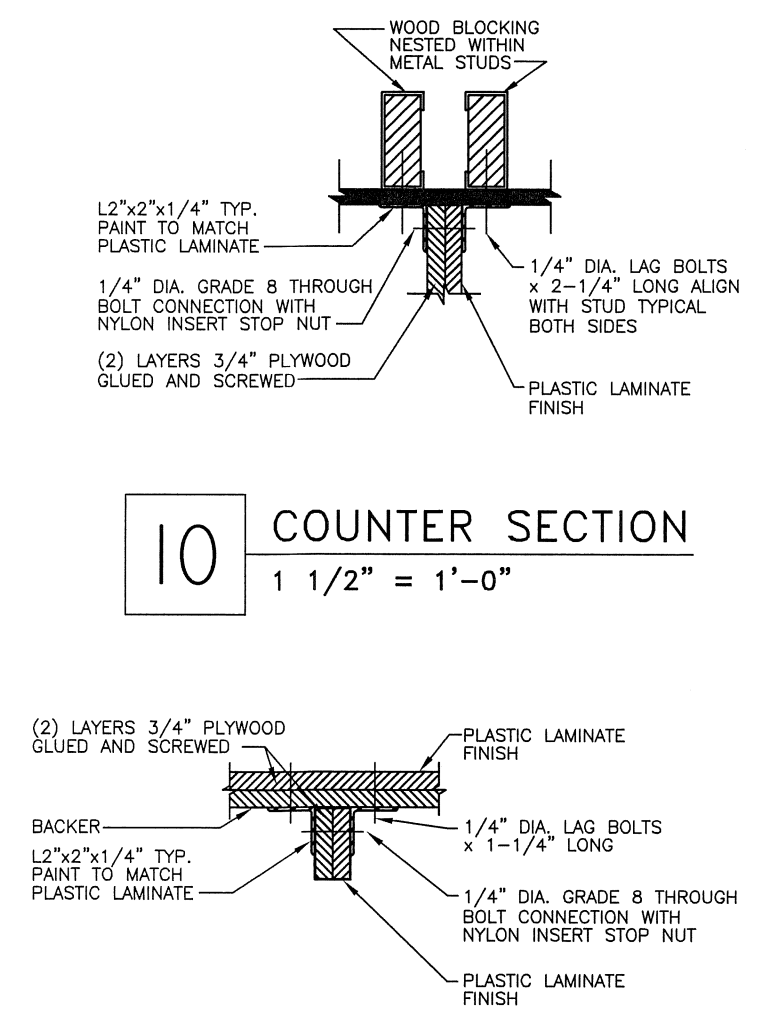
5B SECTION A-A
SCALE: 3/4" = 1'-0"



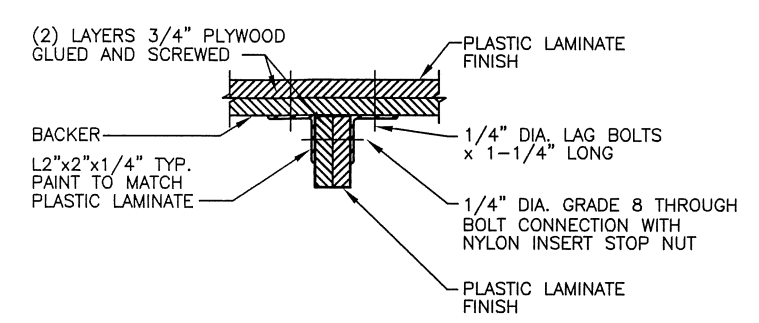
5A FRONT ELEVATION
SCALE: 3/8" = 1'-0"

NOTES:
1. MAILBOX UNIT SHALL BE MODEL NUMBER 2030 AS MANUFACTURED BY SECURITY MANUFACTURING CORPORATION
2. STANDARD ROUGH OPENING FOR FULL (30 BOX) UNIT IS 22 1/2"W x 28 1/2"H. (3 FULL UNIT SHOWN)
3. INSTALLATION SIMILAR FOR MASONRY CONSTRUCTION. PROVIDE ADEQUATE UNITS SUPPORT.
4. THIS DETAIL IS FOR REFERENCE ONLY. FOR ACTUAL NUMBER OF UNITS REQUIRED, REFER TO OFFICE FLOOR PLAN.

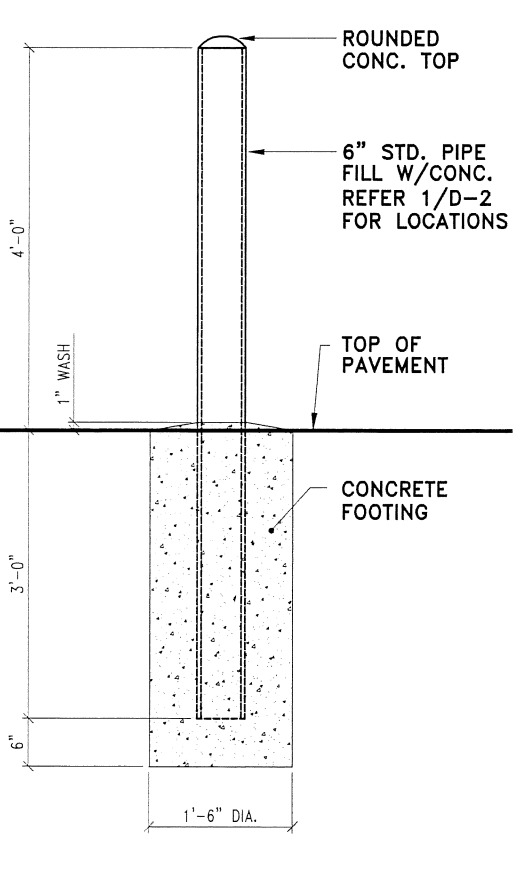
5 HOME DELIVERY STANDARD MAILBOX ARRANGEMENT



10 COUNTER SECTION
1 1/2" = 1'-0"



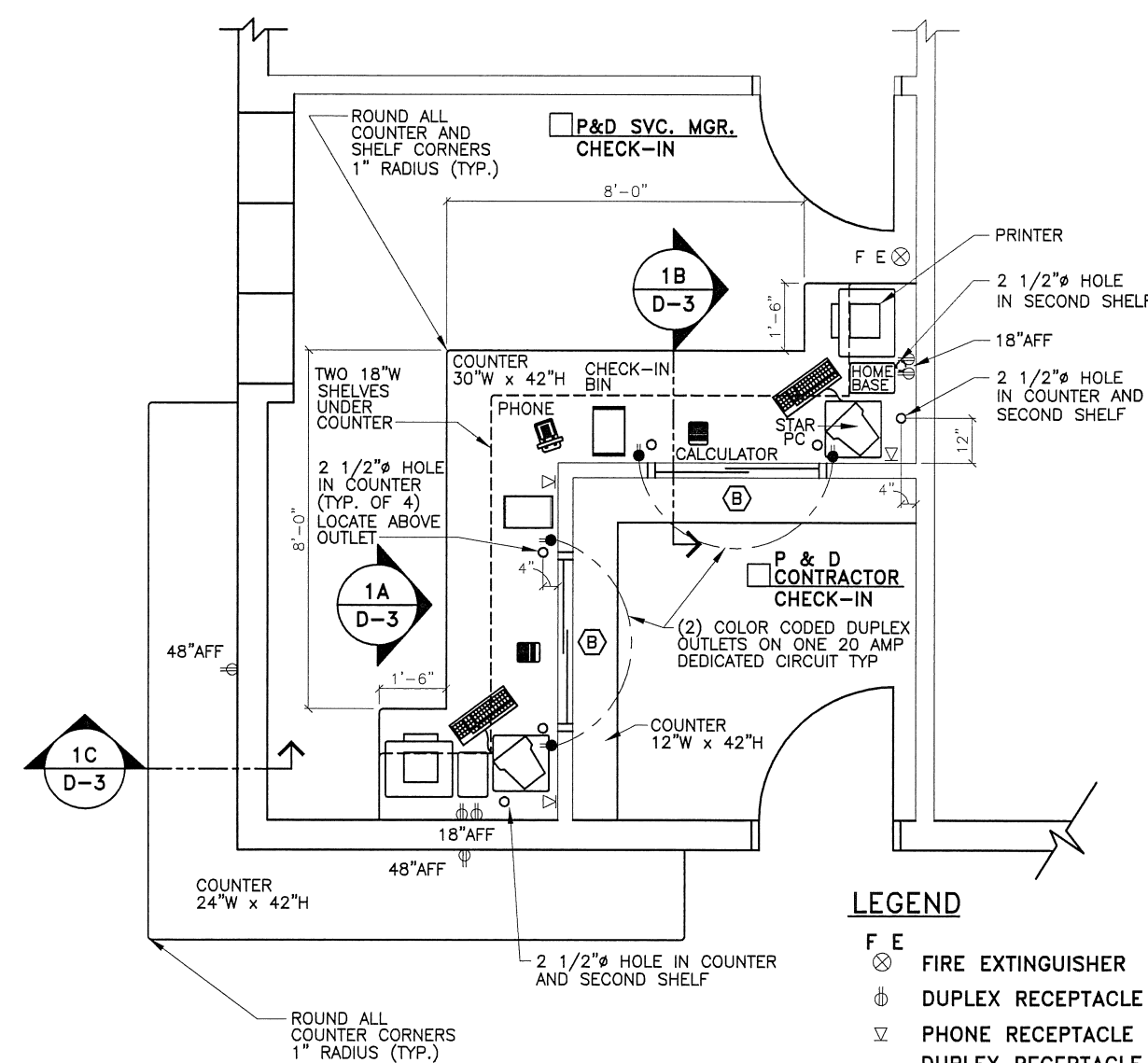
11 COUNTER SECTION
1 1/2" = 1'-0"



9 GUARD POST
1/2" = 1'-0"

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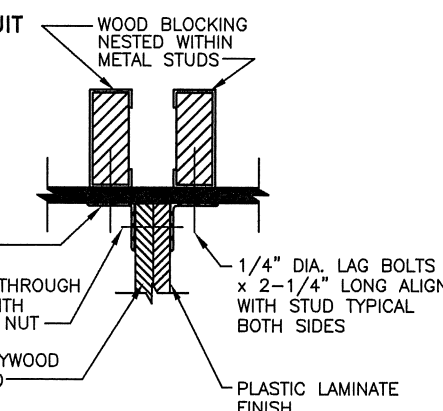
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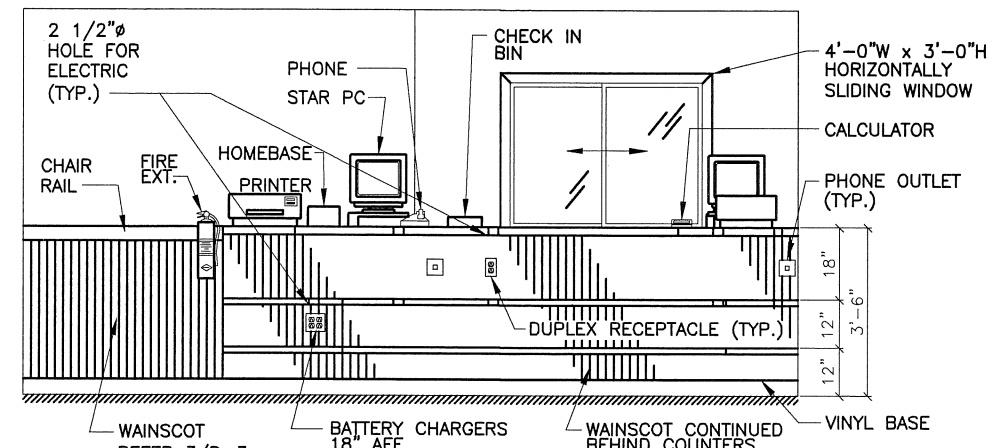
1A CHECK-IN AREA FLOOR PLAN
1/4" = 1'-0"

- NOTE:**
1. DETAILS 6 AND 6A ARE FOR "REFERENCE ONLY" TO LOCATE SHELVING AND WIRE HOLES. FOR ACTUAL ROOM CONFIGURATION REFER TO OFFICE FLOOR PLAN.
 2. ALL TELEPHONE/DATA AND DUPLEX RECEPTACLES IN THIS ROOM ARE TO BE INSTALLED AT 32" AFF UNLESS NOTED OTHERWISE.
 3. SLIGHTLY BEVEL OR OTHERWISE "EASE" ALL SHARP EDGES ON THE COUNTERS AND SHELVES WHILE IN THE SHOP. MAINTAIN A UNIFORM DIMENSION AND APPEARANCE. PERFORMANCE OF THIS OPERATION IN THE FIELD IS PROHIBITED.

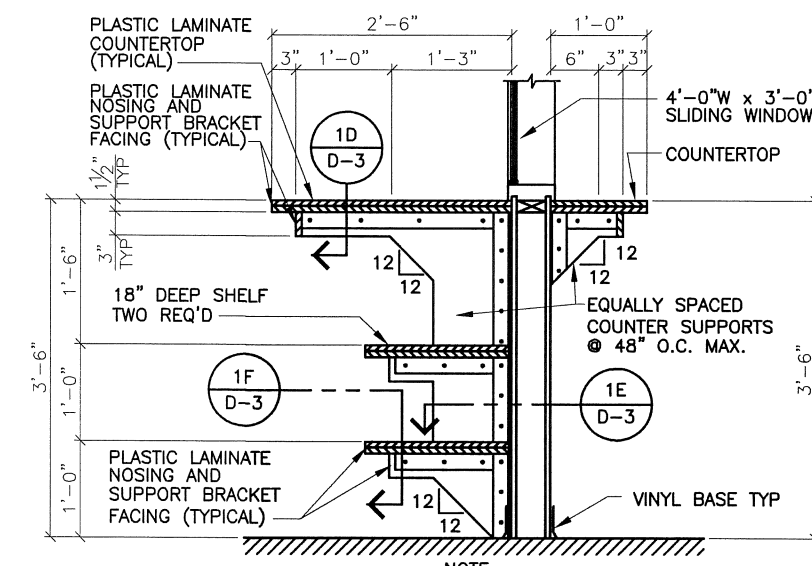
- LEGEND**
- F E FIRE EXTINGUISHER
 - ⊕ DUPLEX RECEPTACLE
 - ⊙ PHONE RECEPTACLE
 - ⊙ DUPLEX RECEPTACLE ON DEDICATED CIRCUIT



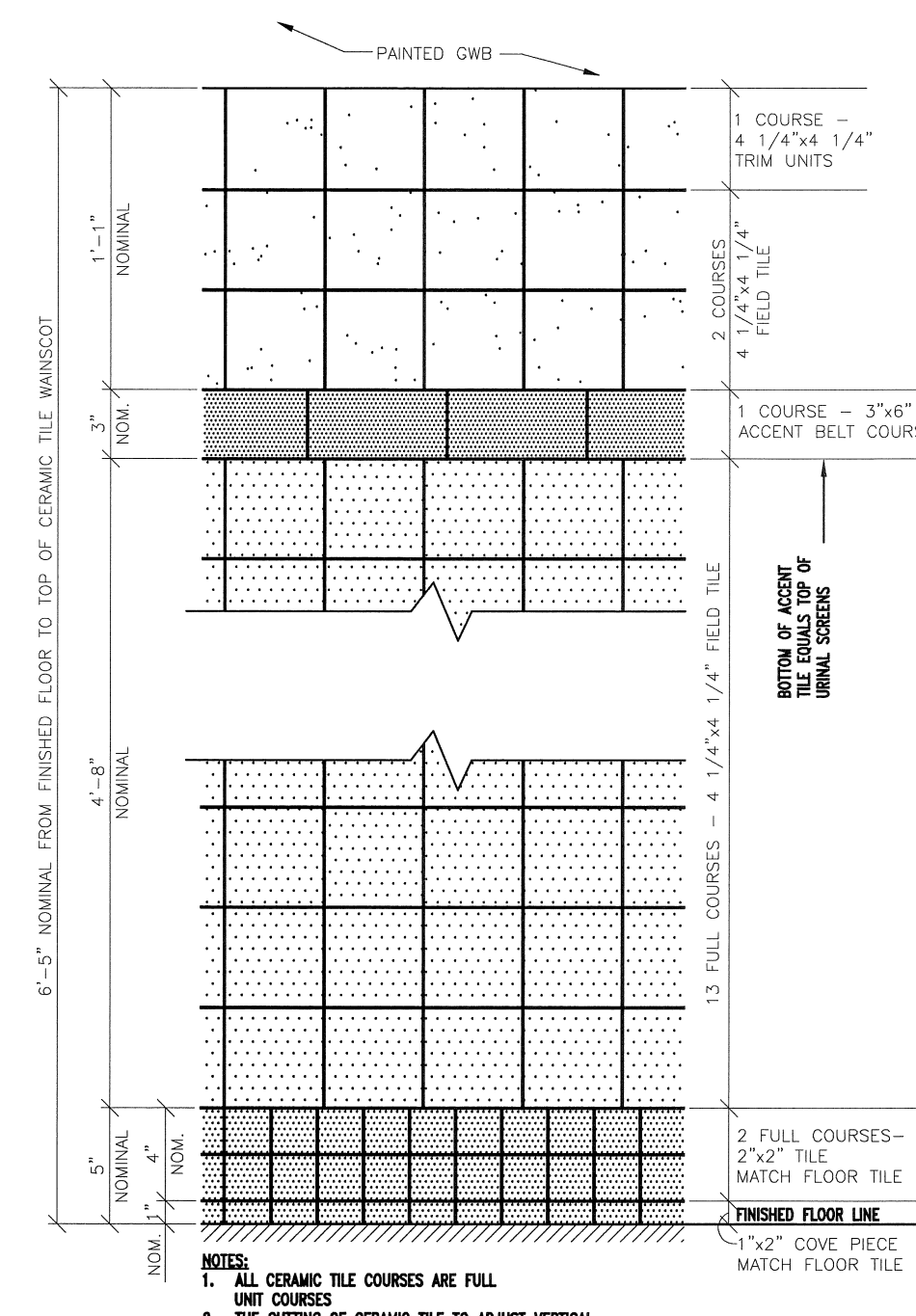
1E COUNTER SECTION
1 1/2" = 1'-0"



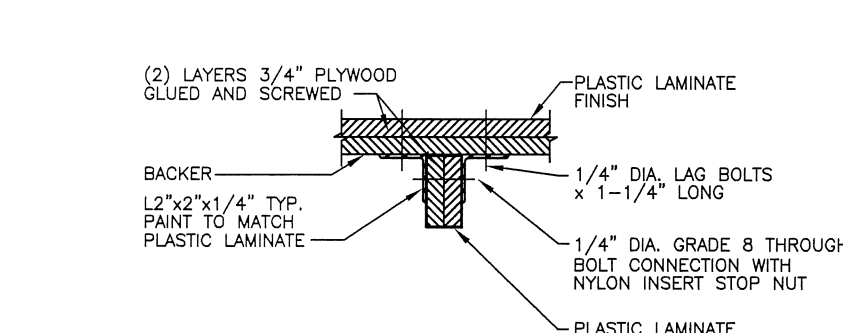
1A ELEVATION A
1/4" = 1'-0"



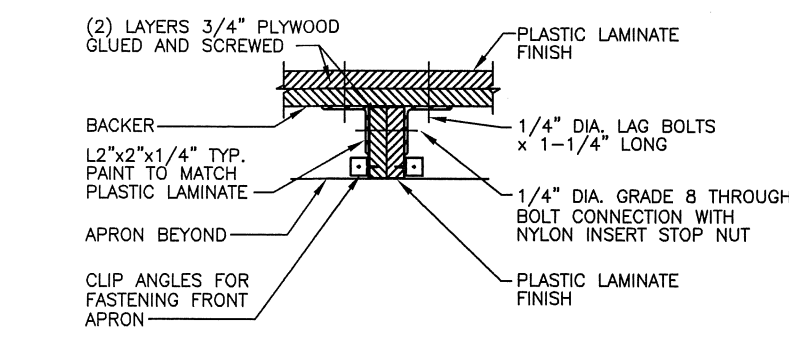
1B CHECK-IN COUNTER SECTION
1/2" = 1'-0"



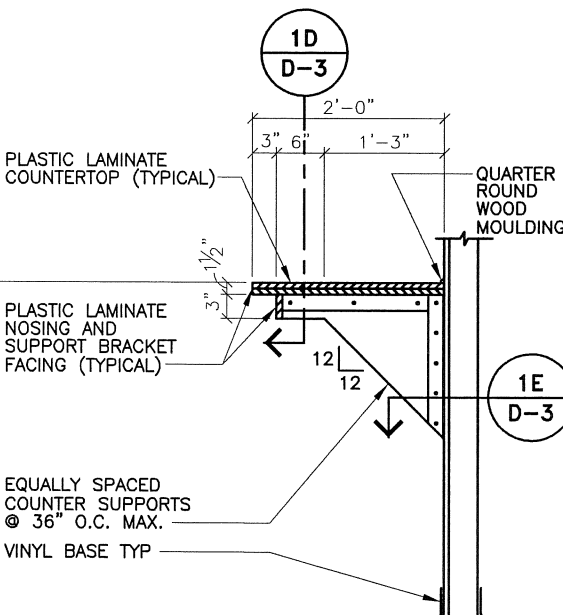
2 TOILET ROOM CERAMIC TILE
WAINSCOT DETAILS
(TYPICAL ALL TOILET ROOMS)
SCALE: 1 1/2" = 1'-0"



1F COUNTER SECTION
1 1/2" = 1'-0"



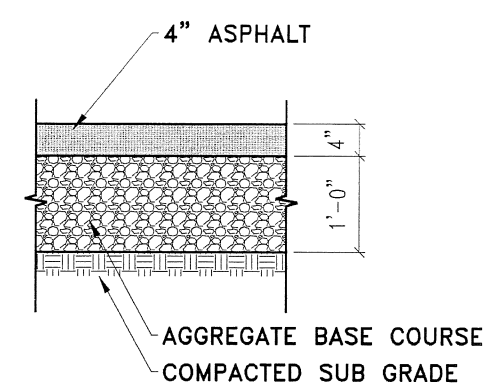
1D COUNTER SECTION
1 1/2" = 1'-0"



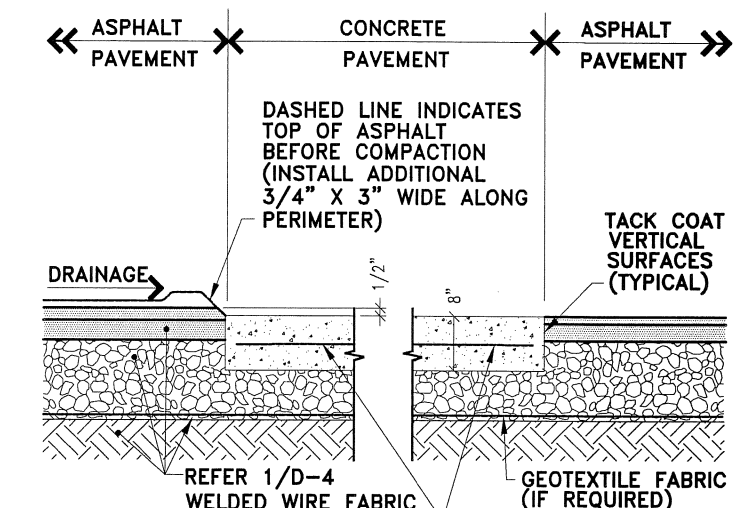
1C CONTRACTOR COUNTER SECTION
1/2" = 1'-0"

NO.	DATE	REVISIONS	BY
Δ	09.14.09	PROJECT RECORD	TWA

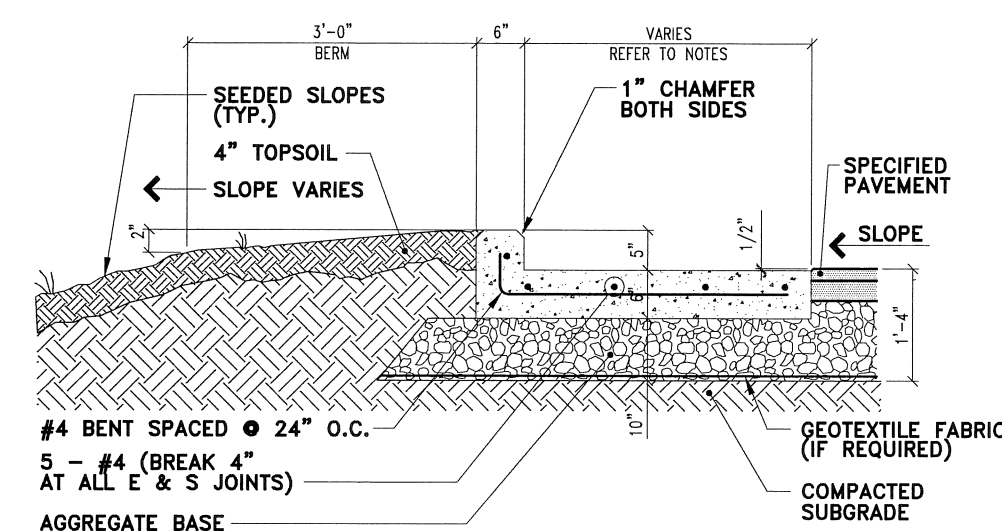
PROJECT NUMBER: 7188
DATE: 02.16.09
DRAWN BY: TWA
CHECKED BY: D. NELSEN
DESIGN MANAGER: D. NELSEN



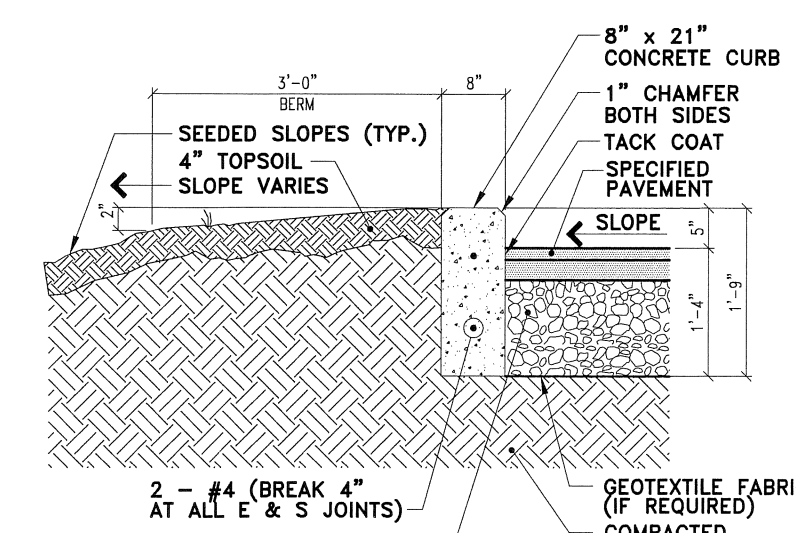
1 TYPICAL SECTION TYPE 1 ASPHALT
1/2" = 1'-0"



2 ASPHALT AT CONC. SECTION
1/2" = 1'-0"

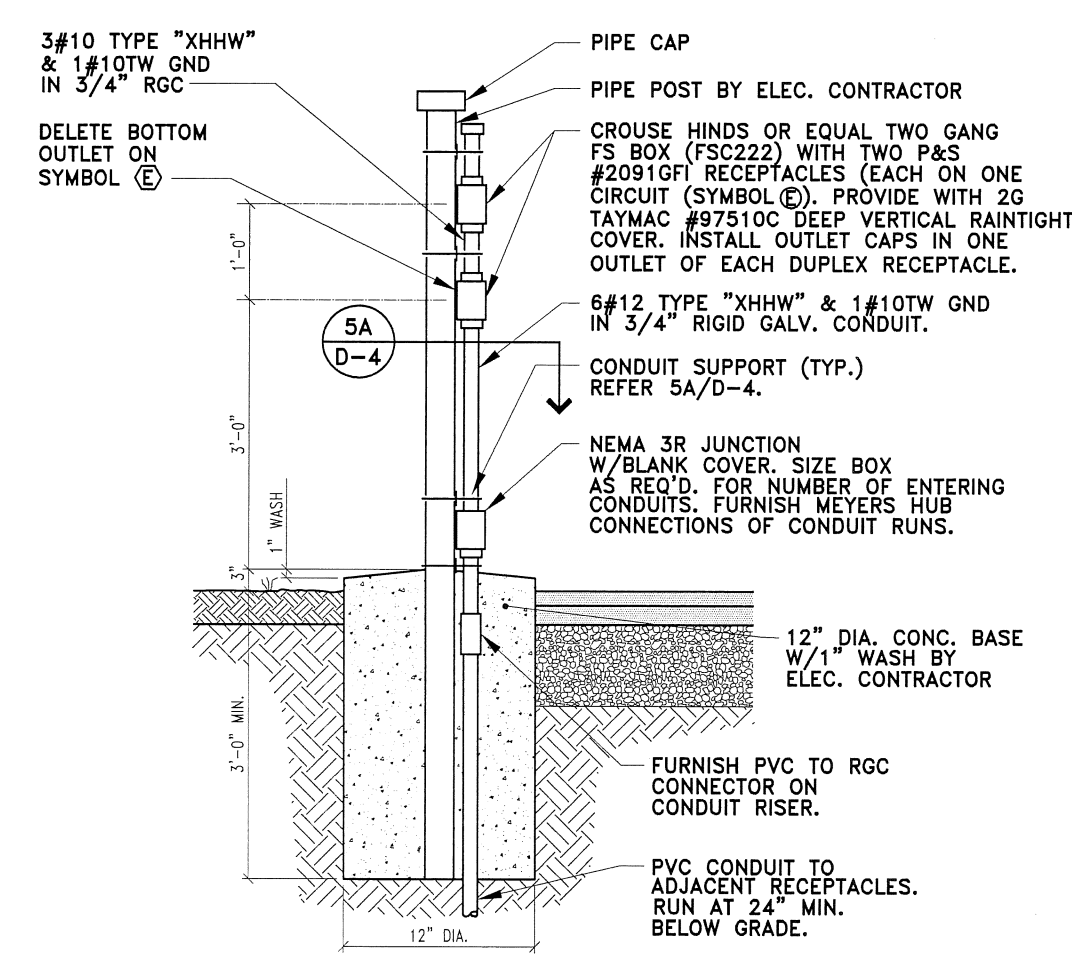


3 CONCRETE CURB & GUTTER
1/2" = 1'-0"

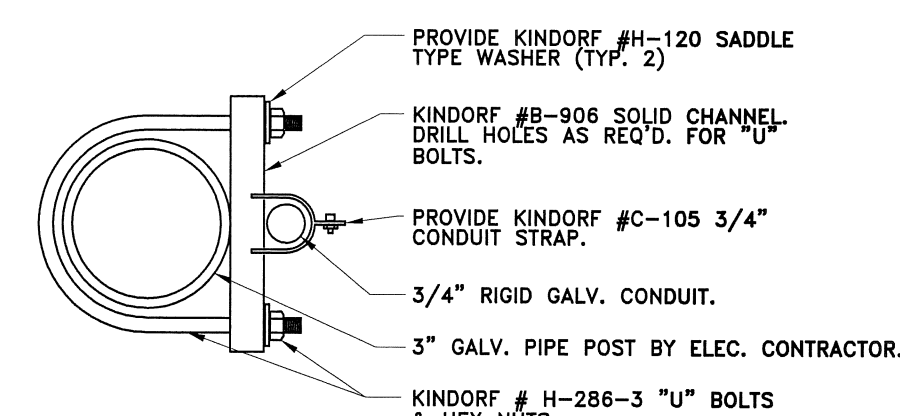


4 CONCRETE CURB DETAIL
1/2" = 1'-0"

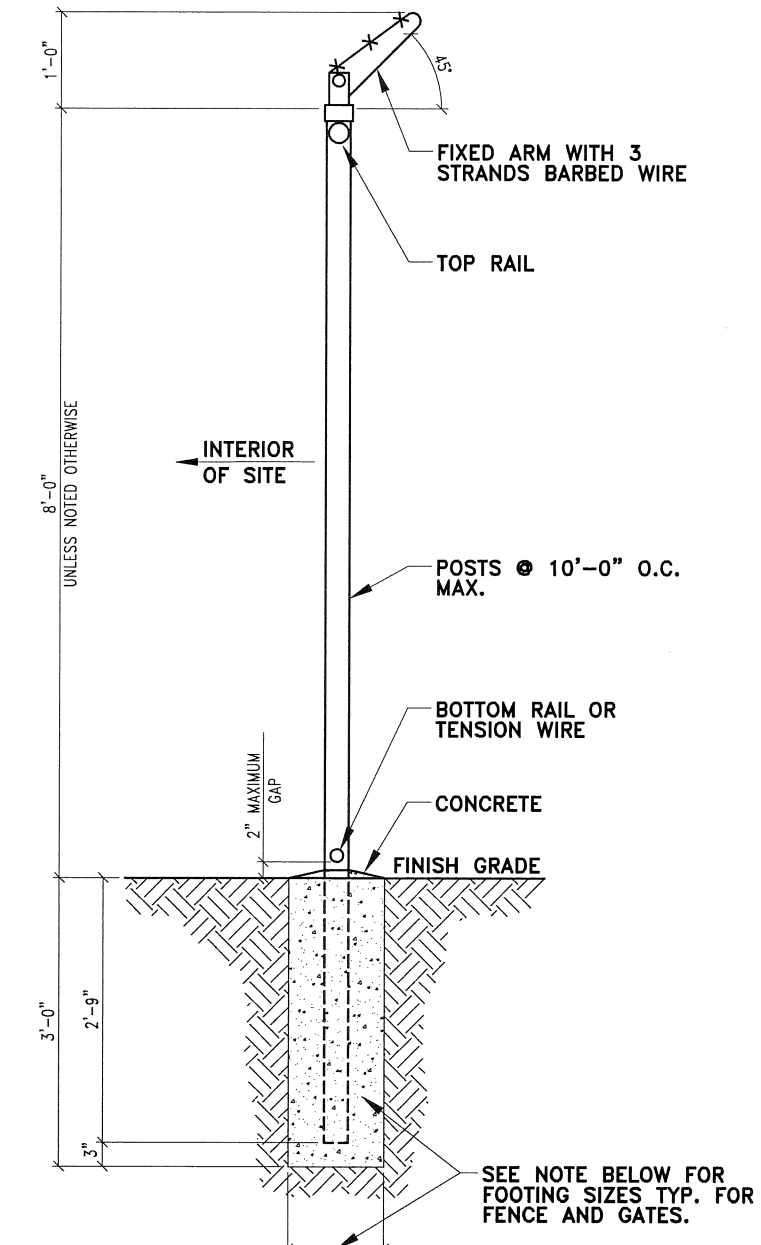
- NOTES:
1) 3'-0" GUTTER WIDTH • PERMANENT TRAILER BACK-IN PARKING
2) 1'-6" GUTTER WIDTH • TRACTOR & AUTO PARKING WHERE CURB & GUTTER ARE REQUIRED FOR DRAINAGE.



5 BLOCK HEATER OUTLET DETAIL
1/2" = 1'-0"



5A SECTION THROUGH PIPE
3" = 1'-0"



6 TYPICAL FENCE DETAIL
1/2" = 1'-0"

FOOTING SIZES:
A. LINE POSTS - 12" DIA. x 36" DP.
B. CORNER AND TERMINAL POSTS - 12" DIA. x 42" DP.
C. GATE POSTS - 24" DIA. x 48" DP.

NOTE: FURNISH ALL KINDORF DEVICES SPECIFIED W/GALV. KROM RUST INHIBITOR FIN.

PLUMBING		
SYMBOL	ABBR	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AP	ACCESS PANEL
⊖		BALANCING VALVE
⊖	BRG	BATHROOM GROUP
⊖	BV	BALL VALVE
	CA	COMPRESSED AIR
	CB	CATCH BASIN
	CI	CAST IRON
	CLG	CEILING
⊖	CO	CLEANOUT
⊖		CAPPED PIPING
⊖	CP	RECIRCULATING PUMP
⊖		CHECK VALVE
⊖	CW	COLD WATER
	DFU	DRAINAGE FIXTURE UNIT
	DN	DOWN
	EEW	EMERGENCY EYE WASH
⊖	EHB	EXTERIOR HOSE BIBB
	ESH	EMERGENCY SHOWER
	EWC	ELECTRIC WATER COOLER
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FT	FOOT
	FWCO	FINISHED WALL CLEANOUT
	GC	GENERAL CONTRACTOR
	GPM	GALLONS PER MINUTE
	HD	HUB DRAIN
⊖	HW	HOT WATER
⊖	HWR	HOT WATER RETURN
	IE	INVERT ELEVATION
⊖	IHB	INTERIOR HOSE BIBB
	L	LAVATORY
⊖	MB	MOP BASIN
		NEW CONNECTION
	NIC	NOT IN CONTRACT
	OSD	OPEN SITE DRAIN
⊖		PIPING/EQUIP TO BE REMOVED
	PC	PLUMBING CONTRACTOR
	PSI	POUNDS PER SQUARE INCH
		RISER DOWN
		RISER UP
⊖	RD	ROOF DRAIN
	RM	ROOM
⊖	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	P	PUMP
	S	SINK
	SAN	SANITARY
		SANITARY LINE ABOVE FLOOR
⊖		SANITARY LINE BELOW FLOOR
⊖	SFU	SUPPLY FIXTURE UNITS
	SP	SUMP PUMP
	SQ.FT.	SQUARE FEET
	ST	STORM
	TMV	THERMOSTATIC MIXING VALVE
	UF	UNDER FLOOR
	US	UTILITY SINK
⊖		UNION
	U	URINAL
⊖	V	VENT
	W	WASTE
	WC	WATER CLOSET
	WCO	WALL CLEANOUT
⊖	WH	WALL HYDRANT
	WHA	WATER HAMMER ARRESTOR
	WSFU	WATER SUPPLY FIXTURE UNITS

NOTE:
THIS IS A COMPOSITE LIST OF ABBREVIATIONS AND SYMBOLS, NOT ALL PERTAIN SPECIFICALLY TO THIS JOB.

WATER CALCULATION WORKSHEET FOR: FEDEX DISTRIBUTION CENTER

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE

- Demand of building in building in gallons per minute. WSFU's 82 + GPM 1 =(GPM) 83.6
- Difference in elevation from main or external pressure tank to building control valve. (feet) 8'
- Size of water meter (when meter is required) or larger 1 1/2"
- Developed length from main or external pressure tank to building control valve. (feet) —
- Low pressure at main in street or external pressure tank. (psi) 82

CALCULATE WATER SERVICE PRESSURE LOSS

- Low pressure at main in street or external pressure tank. (value of #5 above) 82
- Determine pressure loss due to friction in 6 inch diameter water service. (Water service piping material is: DUCTILE IRON) Subtract value of "7" 0
subtotal 82
- Determine pressure loss due to elevation (multiply the value of #2 above by .434) Subtract value of "8" 3.5
- Available pressure after the bldg. Control valve. (enter in "B" below) subtotal 78.5

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

- Available pressure after the bldg. Control valve. (from "9" above) After PRV Value of "B" 78.5
- Pressure loss of water meter (when meter is required) Subtract value of "C" 7.5
subtotal 71
- Pressure at controlling fixture. Controlling fixture is EMERGENCY EYEWASH/SHOWER Subtract value of "D" 30
subtotal 41
- Difference in elevation between the building control valve and the controlling fixture in feet 0 X .434 psi/ft. Subtract value of "E" 0
subtotal 41
- Pressure loss due to water treatment devices, instantaneous water heaters and backflow preventers which serve the controlling fixture. Subtract value of "F" 0
subtotal 41
- Developed length from building control valve to controlling fixture in feet 410 X 1.5 Divide by value of "G" 615
subtotal 0.07
(Water distribution piping material is Copper type L) Multiply by 100
- Pressure available for uniform loss "A" = 7

IDENTITY	DESCRIPTION	TOTAL # FIXTURES	SANITARY WASTE DRAINAGE UNITS		FIXTURE WATER SUPPLY UNITS			TOTAL WATER SUPPLY UNITS			GPM		REMARKS
			DFU/EA	TOTAL	HOT	COLD	TOTAL	HOT	COLD	TOTAL	GPM/EA	TOTAL	
WF-1	WASHFOUNTAIN *	4	2	8	1.5	1.5	2	6	6	8	---	---	
WC-5 & 6	WATER CLOSET *	7	6	42	---	6.5	6.5	---	45.5	45.5	---	---	
FD-1	FLOOR DRAIN	5	3	15	---	---	---	---	---	---	---	---	
U-1 & 2	URINAL *	3	2	6	---	2	2	---	6	6	---	---	
EHB-3	EXTERIOR HOSE BIBB	3	---	---	---	3	3	---	9	9	---	---	
IHB-1	INTERIOR HOSE BIBB	3	---	---	---	3	3	---	9	9	---	---	
CB-1	CATCH BASIN	5	4	20	---	---	---	---	---	---	---	---	
EWC-1	ELECTRIC WATER COOLER	6	0.5	3	---	0.25	0.25	---	1.5	1.5	---	---	
US-4	UTILITY SINK	1	3	3	2	2	3	2	2	3	---	---	
	VENDING MACHINE WATER	2	---	---	---	---	---	---	---	---	0.5	1	
	TOTALS			97				8	79	82	0.5	1	

* INCLUDES FUTURE FIXTURES

WATER CALCULATION WORKSHEET FOR: FEDEX VEHICLE MAINTENANCE GARAGE

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE

- Demand of building in building in gallons per minute. WSFU's 23.25 + GPM — =(GPM) 35.2
- Difference in elevation from main or external pressure tank to building control valve. (feet) 8'
- Size of water meter (when meter is required) or larger 1"
- Developed length from main or external pressure tank to building control valve. (feet) —
- Low pressure at main in street or external pressure tank. (psi) 82

CALCULATE WATER SERVICE PRESSURE LOSS

- Low pressure at main in street or external pressure tank. (value of #5 above) 82
- Determine pressure loss due to friction in 2 inch diameter water service. (Water service piping material is: TYPE 'K' COPPER) Subtract value of "7" 1.3
subtotal 80.7
- Determine pressure loss due to elevation (multiply the value of #2 above by .434) Subtract value of "8" 3.5
- Available pressure after the bldg. Control valve. (enter in "B" below) subtotal 77.2

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

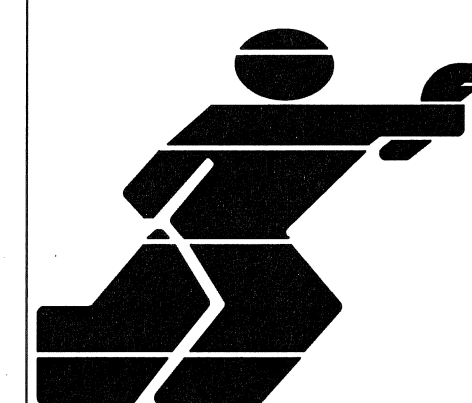
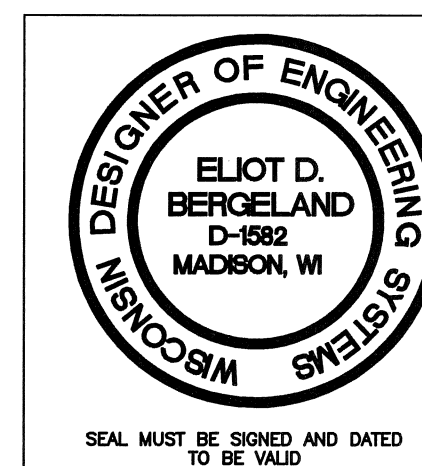
- Available pressure after the bldg. Control valve. (from "9" above) After PRV Value of "B" 77.2
- Pressure loss of water meter (when meter is required) Subtract value of "C" 7.5
subtotal 69.7
- Pressure at controlling fixture. Controlling fixture is INTERIOR HOSE BIBB Subtract value of "D" 8
subtotal 61.7
- Difference in elevation between the building control valve and the controlling fixture in feet 0 X .434 psi/ft. Subtract value of "E" 0
subtotal 61.7
- Pressure loss due to water treatment devices, instantaneous water heaters and backflow preventers which serve the controlling fixture. Subtract value of "F" 0
subtotal 61.7
- Developed length from building control valve to controlling fixture in feet 62 X 1.5 Divide by value of "G" 93
subtotal 0.66
(Water distribution piping material is Copper type L) Multiply by 100
- Pressure available for uniform loss "A" = 66

IDENTITY	DESCRIPTION	TOTAL # FIXTURES	SANITARY WASTE DRAINAGE UNITS		FIXTURE WATER SUPPLY UNITS			TOTAL WATER SUPPLY UNITS			GPM		REMARKS
			DFU/EA	TOTAL	HOT	COLD	TOTAL	HOT	COLD	TOTAL	GPM/EA	TOTAL	
L-1	LAVATORY	2	1	2	0.5	0.5	1	1	1	2	---	---	
WC-5	WATER CLOSET (ADA)	2	6	12	---	6.5	6.5	---	13	13	---	---	
FD-1	FLOOR DRAIN	2	3	6	---	---	---	---	---	---	---	---	
U-1	URINAL	1	2	2	---	2	2	---	2	2	---	---	
EWC-3	ELECTRIC WATER COOLER	1	0.5	0.5	---	0.25	0.25	---	0.25	0.25	---	---	
IHB-1	INTERIOR HOSE BIBB	1	---	---	---	3	3	---	3	3	---	---	
CB-1	CATCH BASIN	3	4	12	---	---	---	---	---	---	---	---	
US-4	UTILITY SINK	1	3	3	2	2	3	2	2	3	---	---	
	TOTALS			37.5				3	21.25	23.25	---	---	

PLUMBING SHEET INDEX

- P-1 ABBREV., DETAILS, NOTES, SCHEDULES & SYMBOLS
- P-2 DISTRIBUTION CENTER FLOOR PLAN
- P-3 OFFICE FLOOR PLAN & ISO'S - PHASE 1 (DIST. CENTER)

PROJECT RECORD
09.14.09

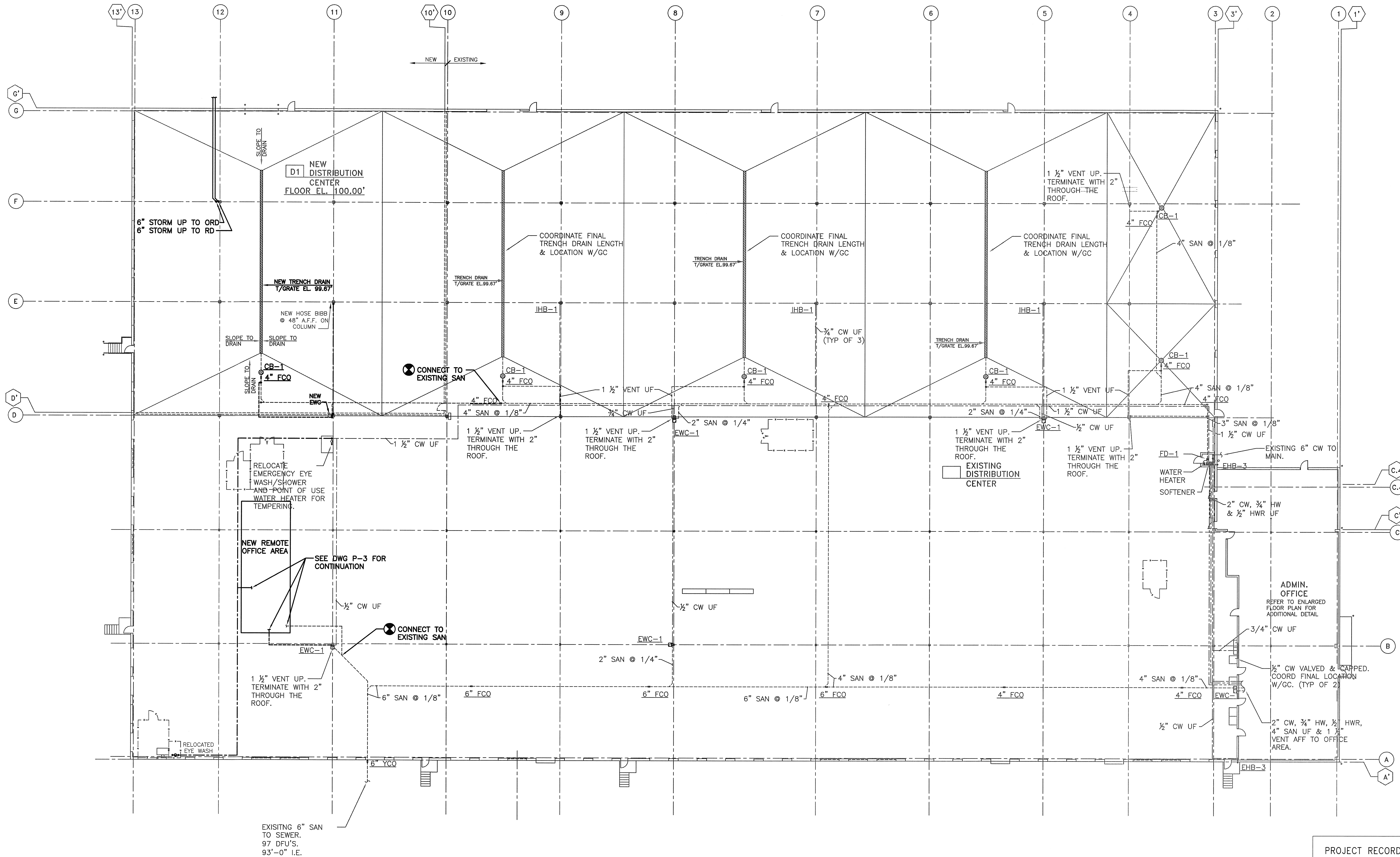


FedEx-Package Distribution Center
3709 Hanson Rd, Madison, WI 53704
Abbrev., Details, Notes, Schedules & Symbols

MONONA PLUMBING & FIRE PROTECTION

3126 WATFORD WAY MADISON, WI 53713
PHONE (608) 273-4556 FAX (608) 273-8492

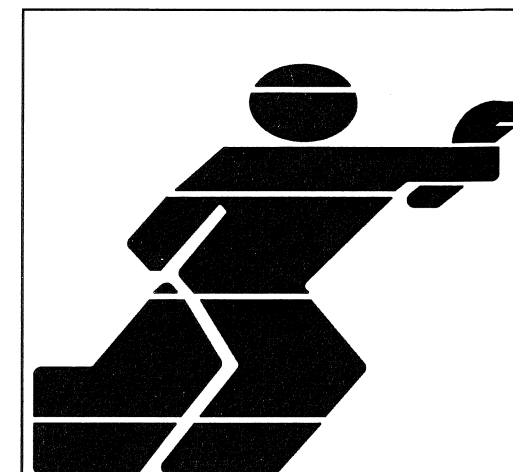
NORTH	
DESIGNER	MARC
SCALE	NTS
CHECK BY	
FILE NUMBER	3183P
APPROVAL	
DATE	October 6, 2003
DRAWING NO.	P-1



FLOOR PLAN FINISH FLOOR ELEVATION = 100'-0"
 1" = 20'-0"

NOTE: HEAVY LINE WEIGHTS REPRESENT "NEW" AND LIGHTER LINE WEIGHTS REPRESENT "EXISTING"

PROJECT RECORD
 09.14.09



FedEx—Package Distribution Center
 3709 Hanson Rd, Madison, WI 53704

Distribution Center Floor Plan — 2009 Remodel

MONONA PLUMBING & FIRE PROTECTION

3126 WATFORD WAY MADISON, WI 53713

NORTH

DESIGNER

SCALE 1" = 20'

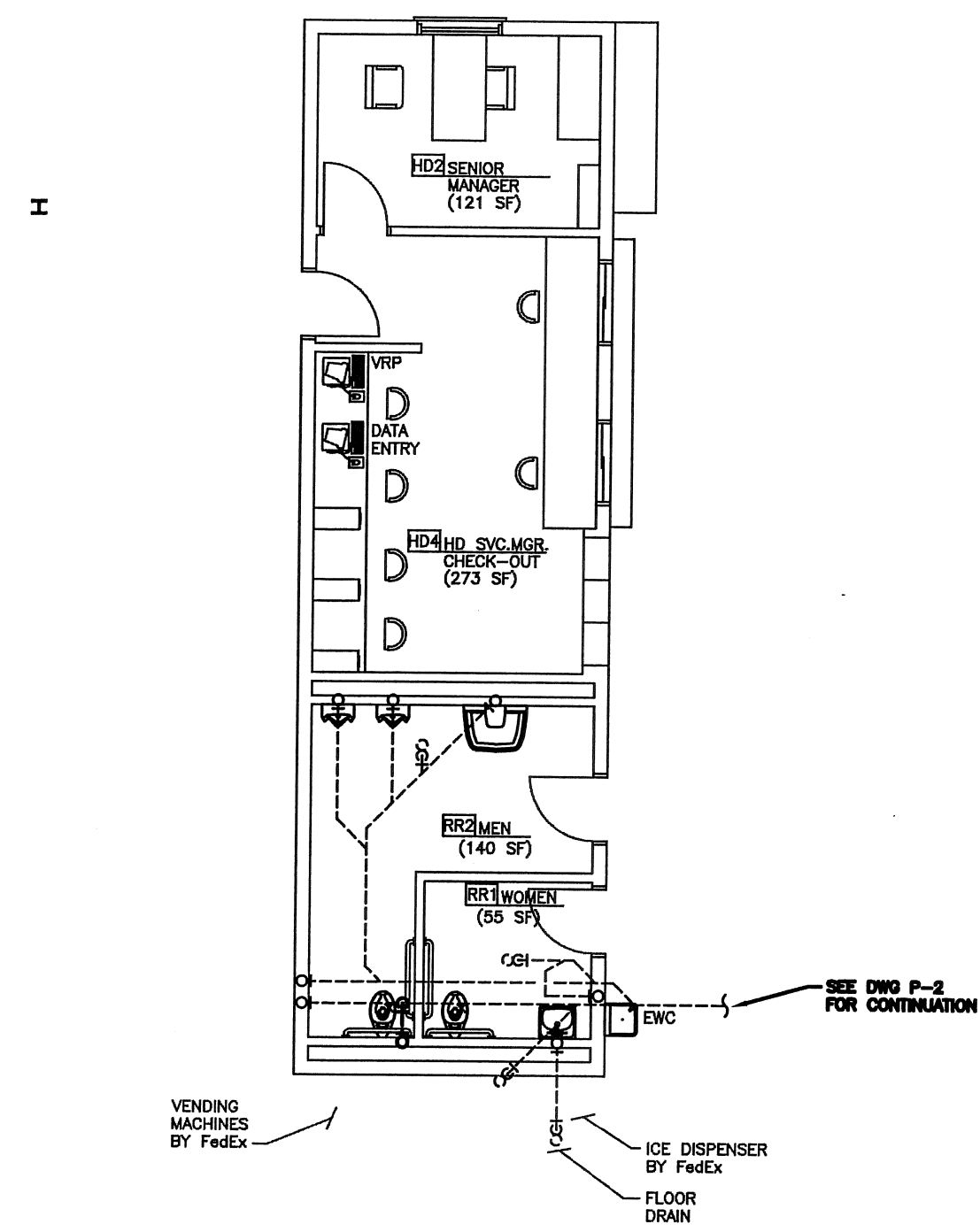
CHECK BY

FILE NUMBER 9021P

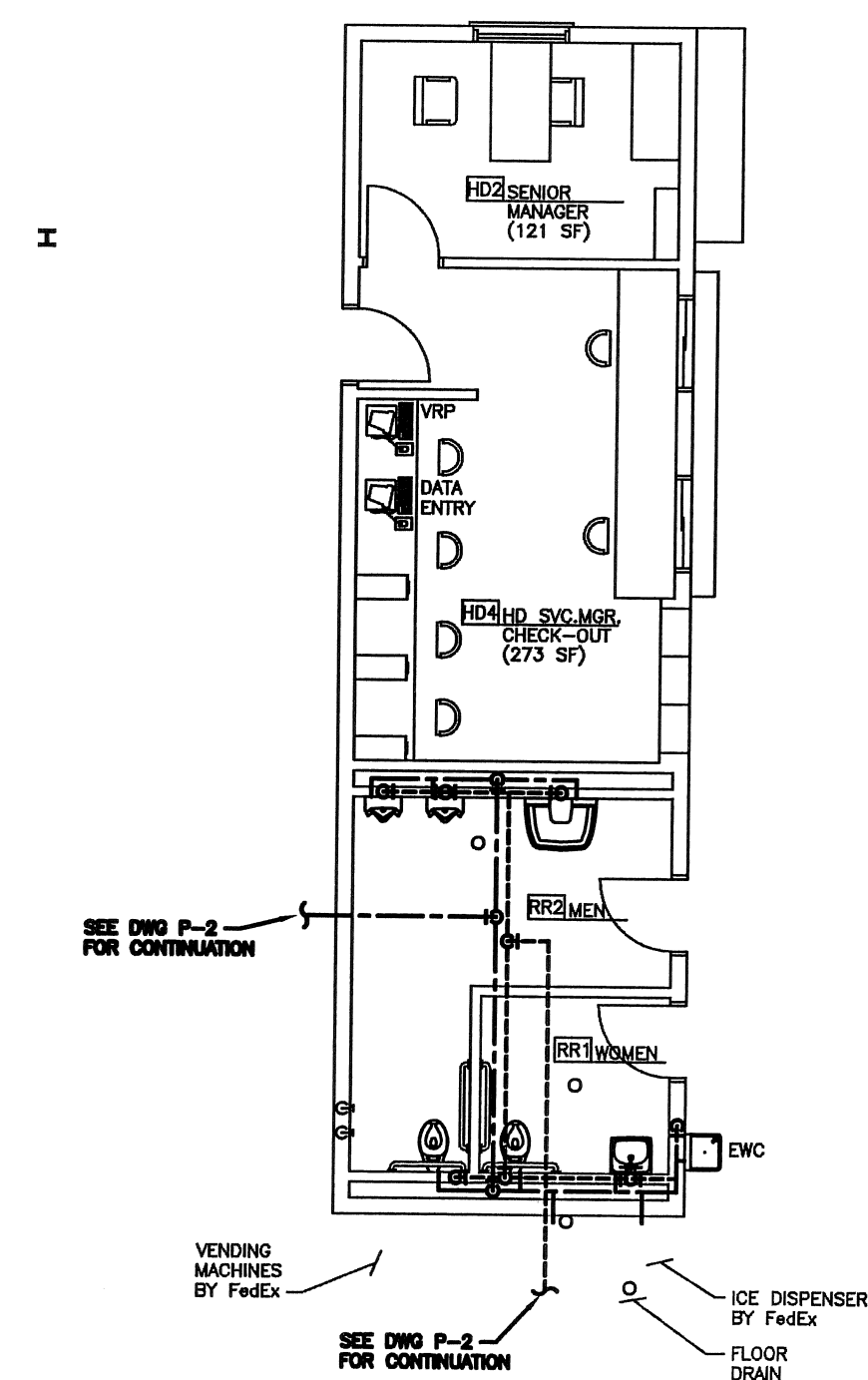
APPROVAL

DATE August 21, 2009

DRAWING NO P-2

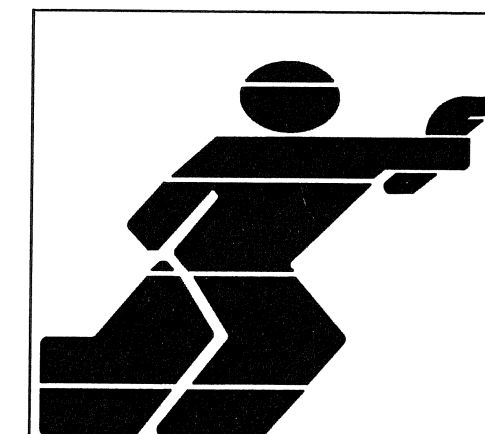


1 REMOTE OFFICE UNDER FLOOR PLAN
SCALE: 1/8"=1'-0"



2 REMOTE OFFICE FLOOR PLAN
SCALE: 1/8"=1'-0"

PROJECT RECORD
09.14.09



FedEx—Package Distribution Center
3709 Hanson Rd, Madison, WI 53704

Remote Office Floor Plan — 2009 Remodel

MONONA PLUMBING & FIRE PROTECTION

3128 WATFORD WAY MADISON, WI 53713
PHONE (608) 273-4556 FAX (608) 273-8492

NORTH

DESIGNER	
SCALE	1/8" = 1'-0"
CHECK BY	
FILE NUMBER	9021P
APPROVAL	
DATE	August 21, 2009
DRAWING NO.	P-3

09.14.09	PROJECT RECORD	TWA	
NO.	DATE	REVISIONS	BY
PROJECT NUMBER: 7188			
DATE: 01.05.09			
DRAWN BY: TWA/MW			
CHECKED BY: D. NELSEN			
DESIGN MANAGER: D. NELSEN			

KEY

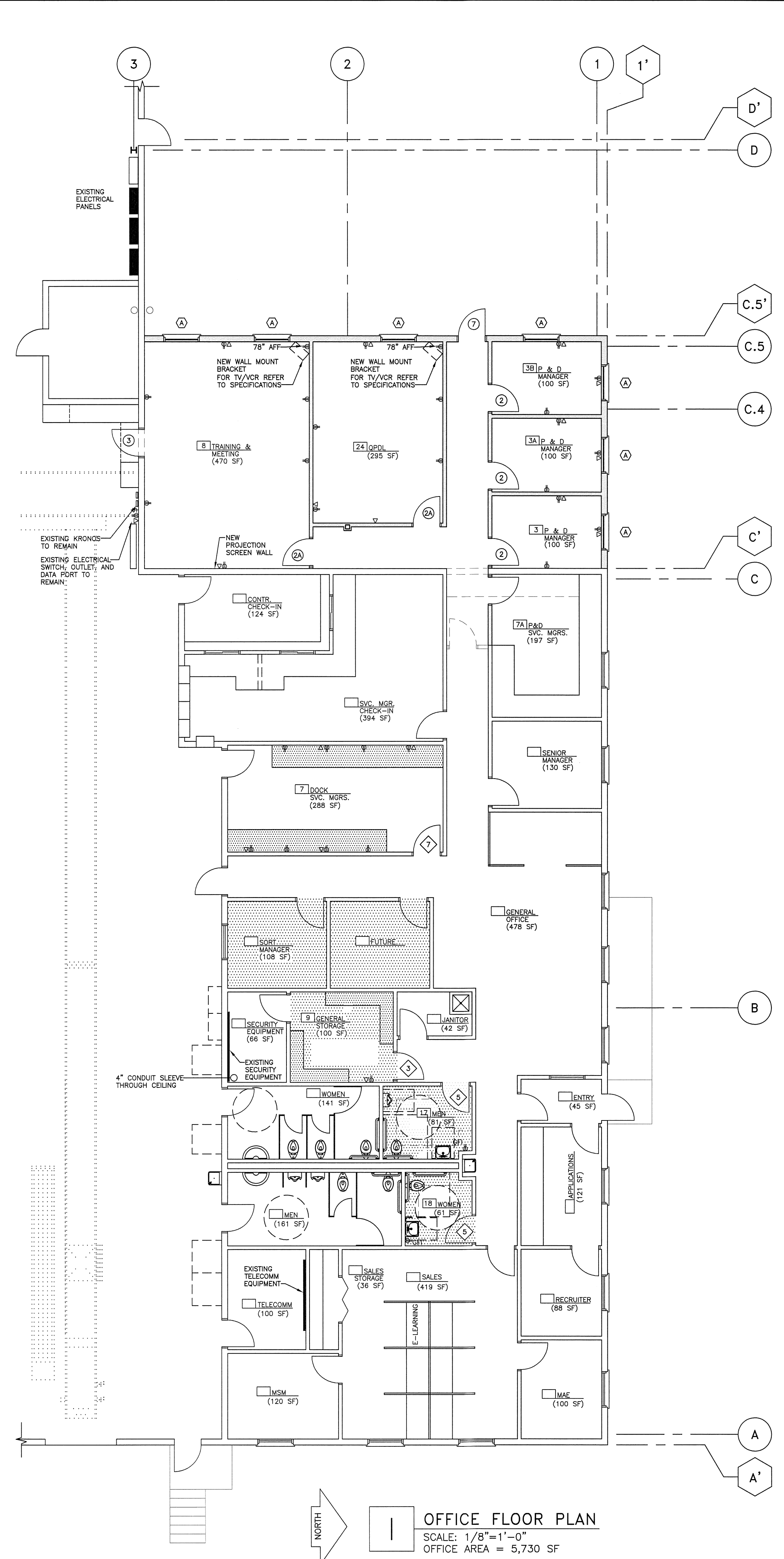
- △ LOCATION OF FLUSH SINGLE GANG TELEPHONE OUTLET WITH 3/4" CONDUIT W/PULL WIRE TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS. INSTALL COVER PLATES AT ALL LOCATIONS. (TYP)
- ▲ OFFICE AREA: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO OFFICE CEILING SPACE. SIZE AS NOTED.
- DISTRIBUTION BOARD TO WAREHOUSE JOIST SPACE. SIZE AS NOTED.
- JUNCTION BOX W/20 AMP DEDICATED CIRCUIT TO A LOCKABLE BREAKER. LABEL BOX W/BREAKER AND PANEL.
- ⊕ SPECIAL LOCATION DUPLEX RECEPTACLES, OTHERS NOT SHOWN ON PLAN
- DUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊕ QUADRUPLUX RECEPTACLE
- QUADRUPLUX RECEPTACLE ON DEDICATED CIRCUIT
- ⊕ 1/2" COPPER COLD WATER SUPPLY LINE WITH 1/4" REDUCER AND VALVE
- X NEW DOOR REFER TO DOOR SCHEDULE
- ⊗ NEW WINDOW REFER TO WINDOW SCHEDULE
- ◇ EXISTING DOOR WITH NEW HARDWARE SET INDICATED, REFER TO SPECIFICATIONS.
- X ROOM FINISH REFERENCE NUMBER, REFER TO ROOM FINISH SCHEDULE
- ⌘ WALL LIGHT SWITCH
- ▬ NEW FLUORESCENT LIGHT FIXTURE APPROVED LIGHT FIXTURES
W/2-F96T12/CW/HO
"WATT METER" LAMPS:
- LITHONIA EJ-296HO
- DAY-BRITE FKR-1125-BU
- METALUX DIMN-296HO

LEGEND

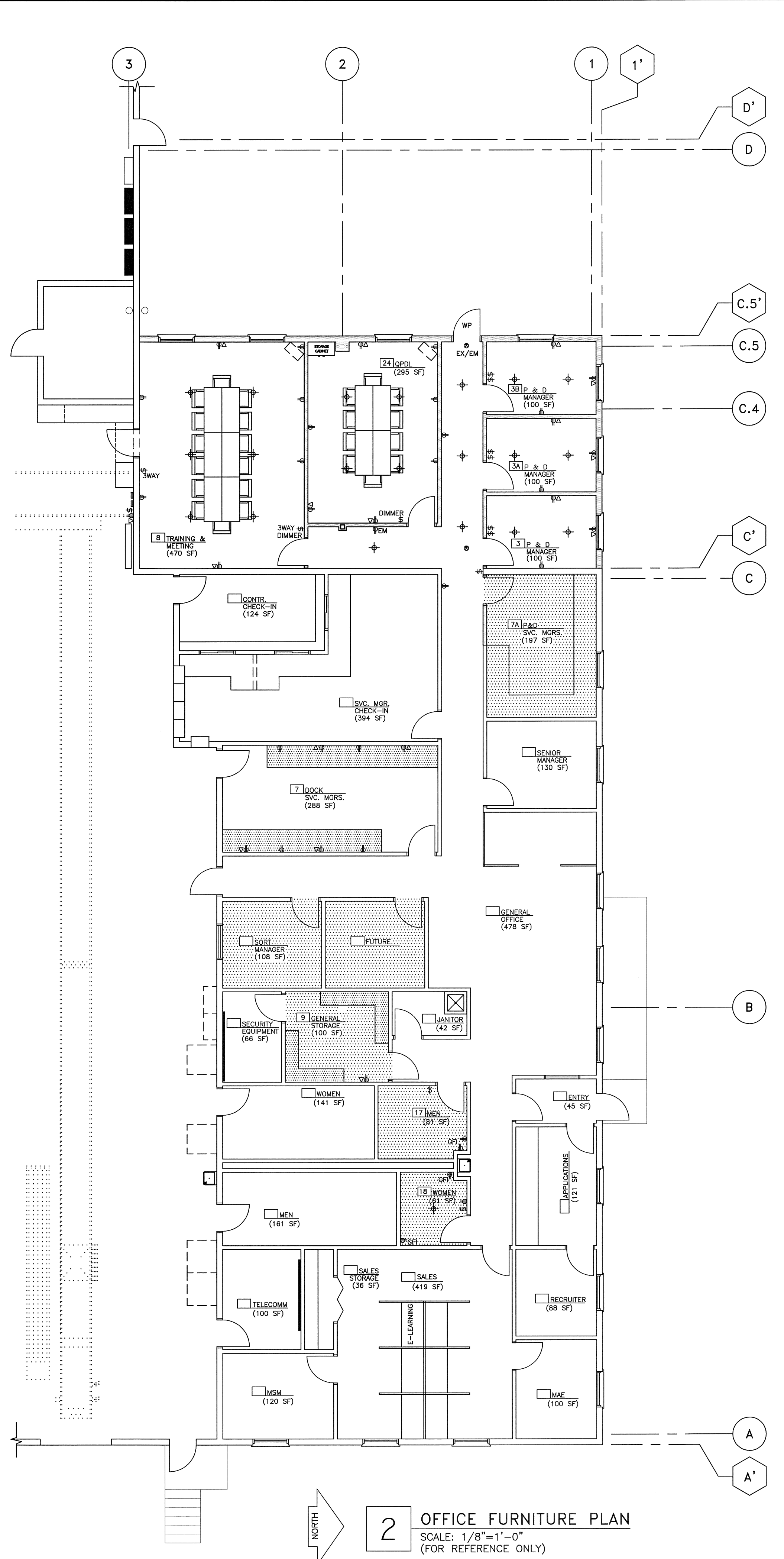
- ▬ EXISTING WALL
- - - REMOVE WALL
- ▬ NEW WALL
- ▬ NEW COUNTER/SHELF
- ▬ REASSIGNED OFFICE

NOTES:

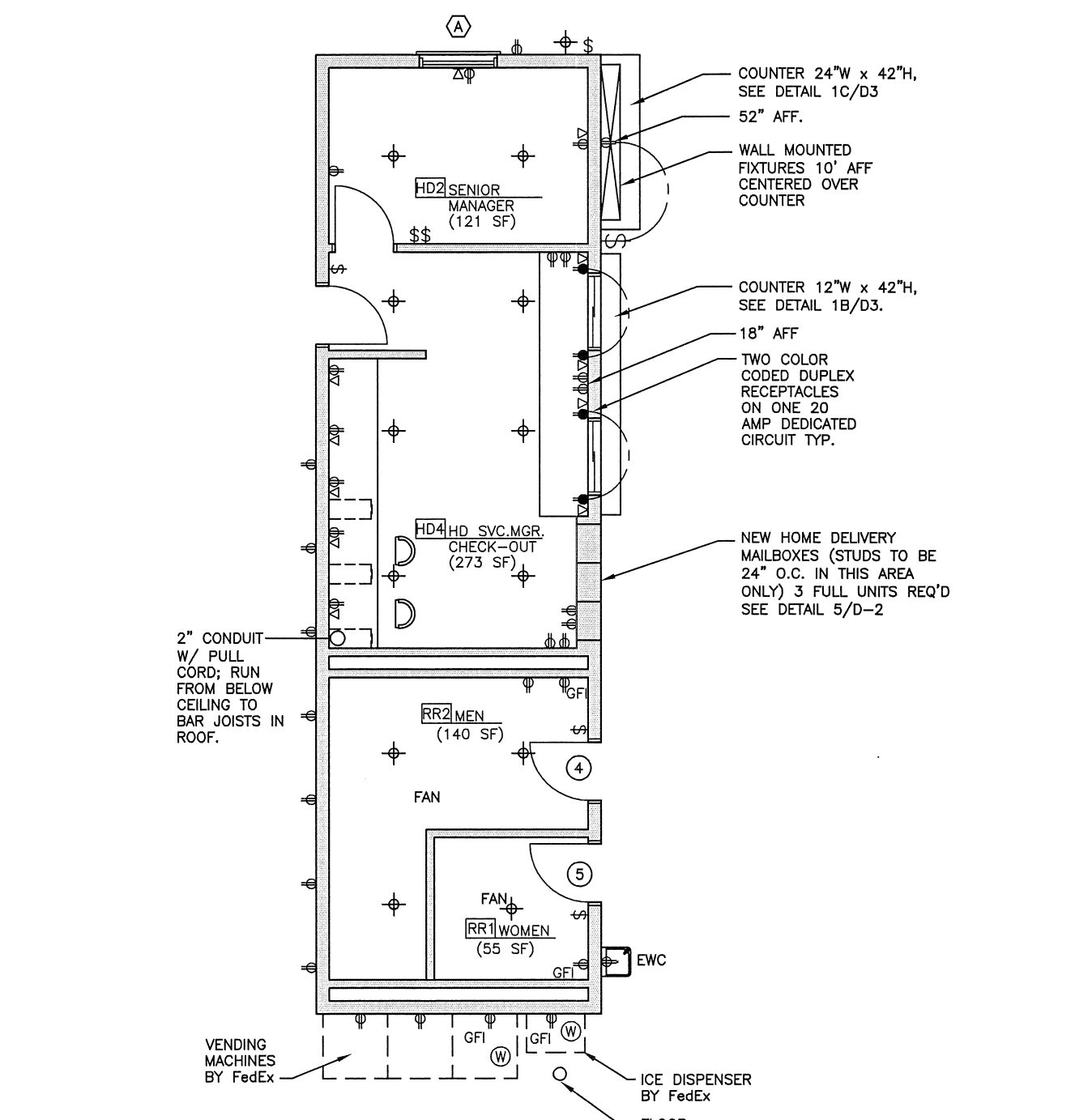
- ROUND ALL COUNTER CORNERS 1" RADIUS.
- QUARTER ROUND WOOD MOULDING AT BACK OF ALL COUNTER TOPS, PAINTED TO MATCH WALLS.
- THE SECURITY ROOM HVAC SHALL BE DESIGNED TO MAINTAIN AN AVG. MEAN TEMP. OF 70°. TEMPERATURE SHALL BE CONTROLLED BY A DEDICATED THERMOSTAT.
- PROVIDE 2 1/2" DIA. HOLES W/GROMMETS IN ALL COUNTERS ABOVE ALL RECEPTACLES EXCEPT 18" AFF. RECEPTACLES IN SVC. MGR. CHECK-IN



1 OFFICE FLOOR PLAN
SCALE: 1/8"=1'-0"
OFFICE AREA = 5,730 SF

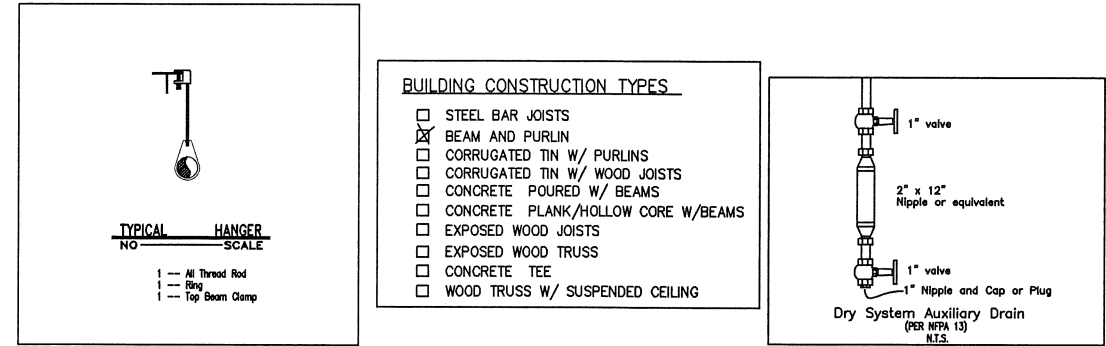
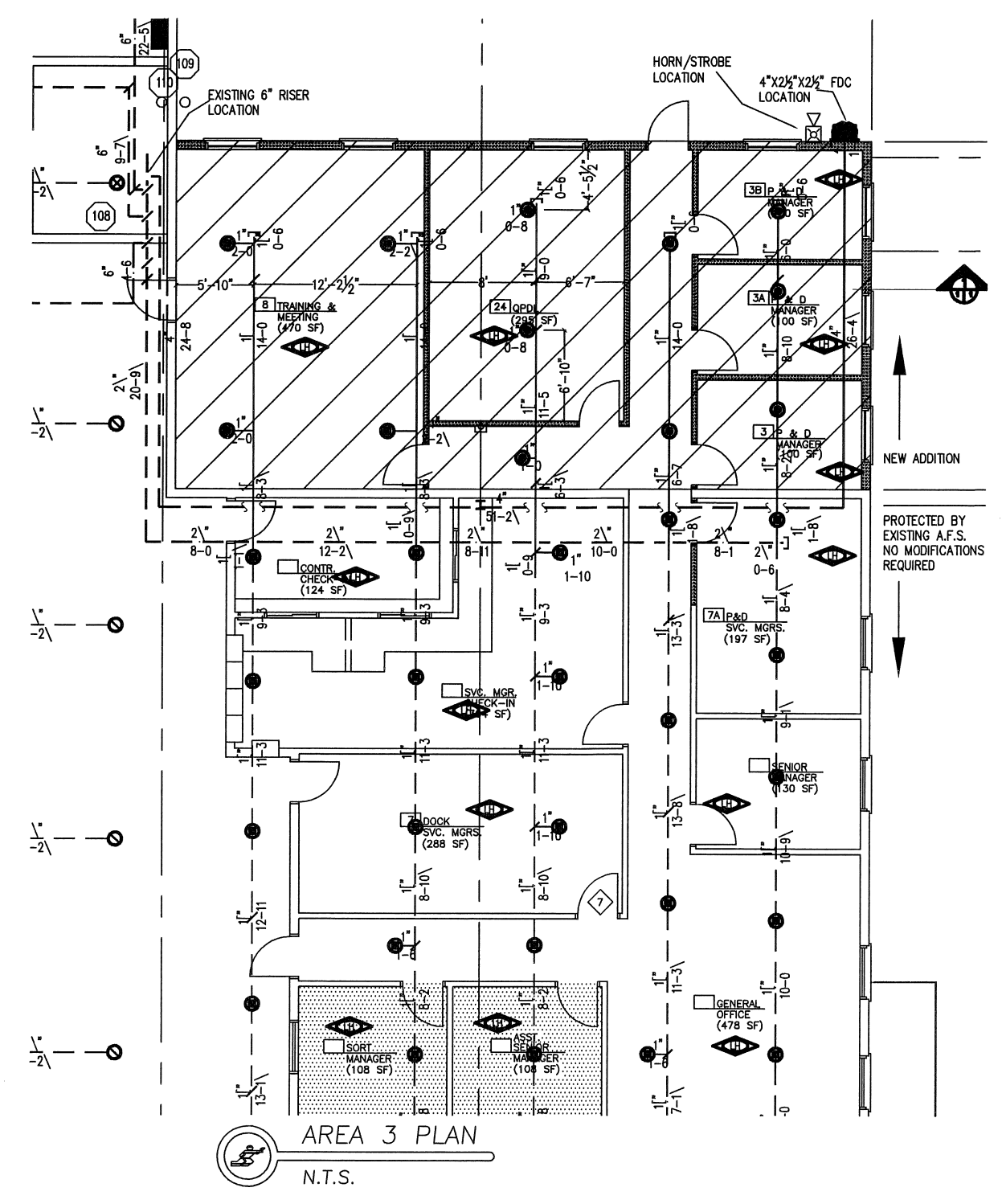
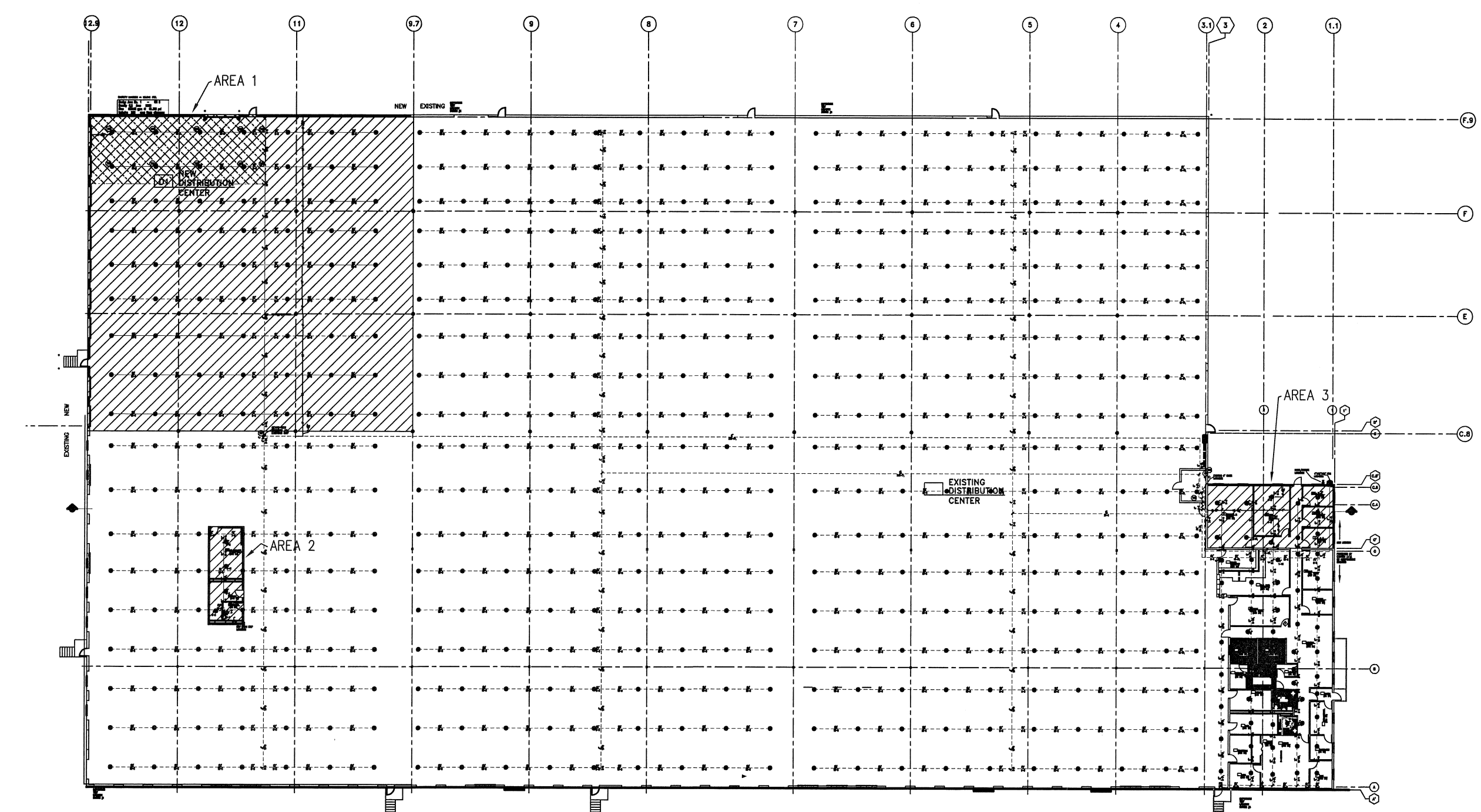
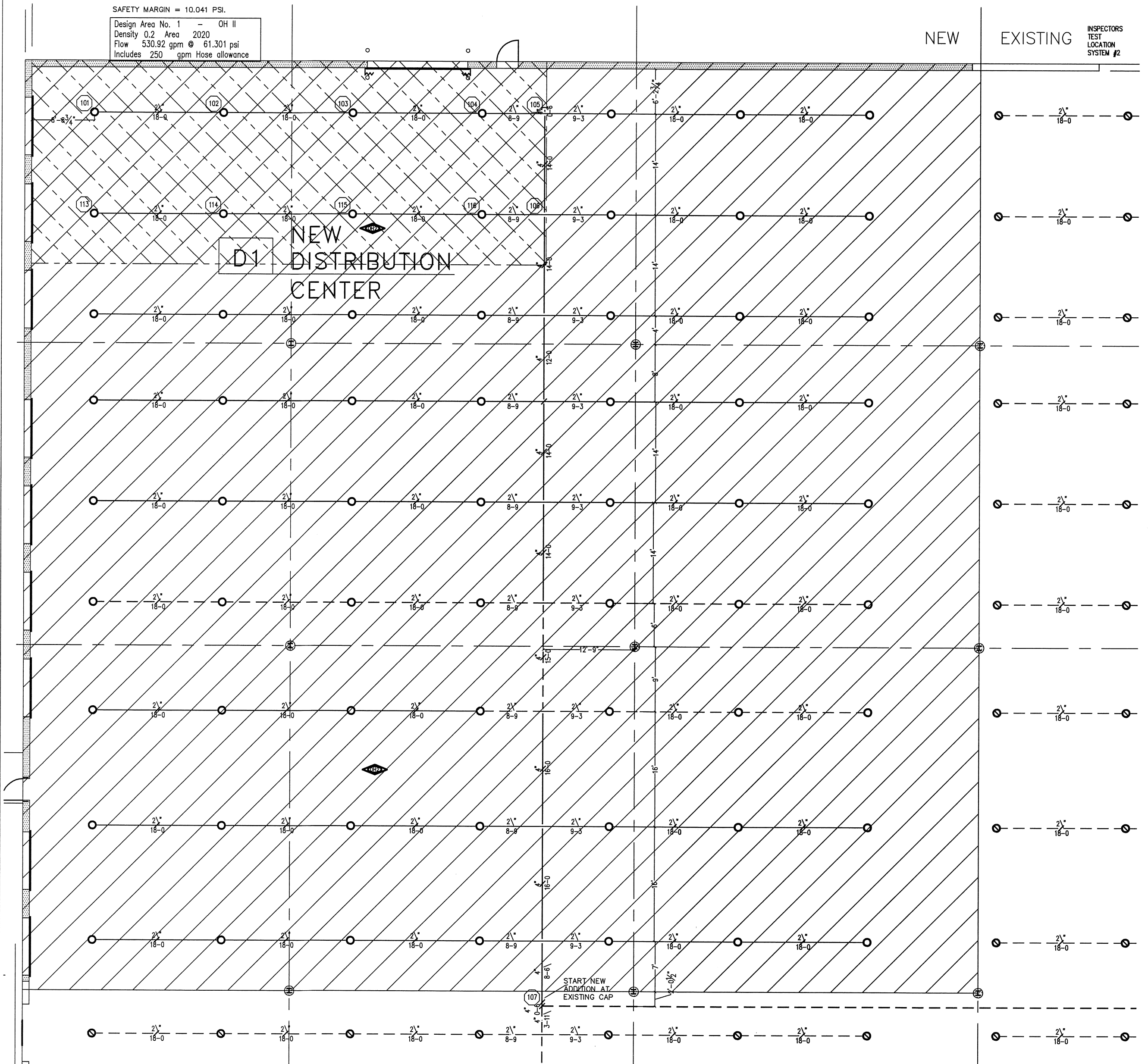
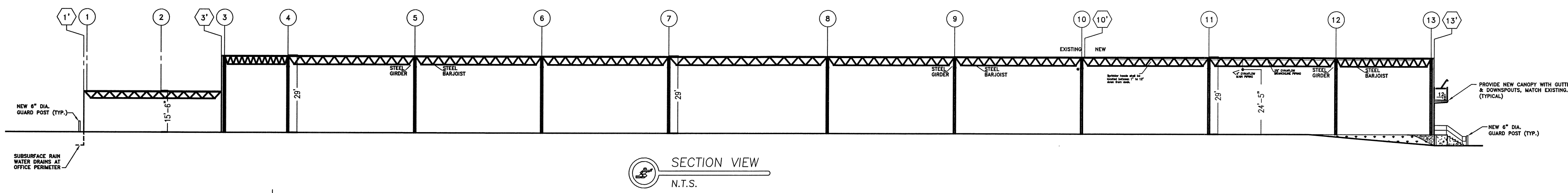


2 OFFICE FURNITURE PLAN
SCALE: 1/8"=1'-0"
(FOR REFERENCE ONLY)



3 REMOTE OFFICE FLOOR PLAN
SCALE: 1/8"=1'-0"
(FURNITURE SHOWN FOR REFERENCE ONLY)
OFFICE AREA = 587 SF

PROJECT RECORD
09.14.09

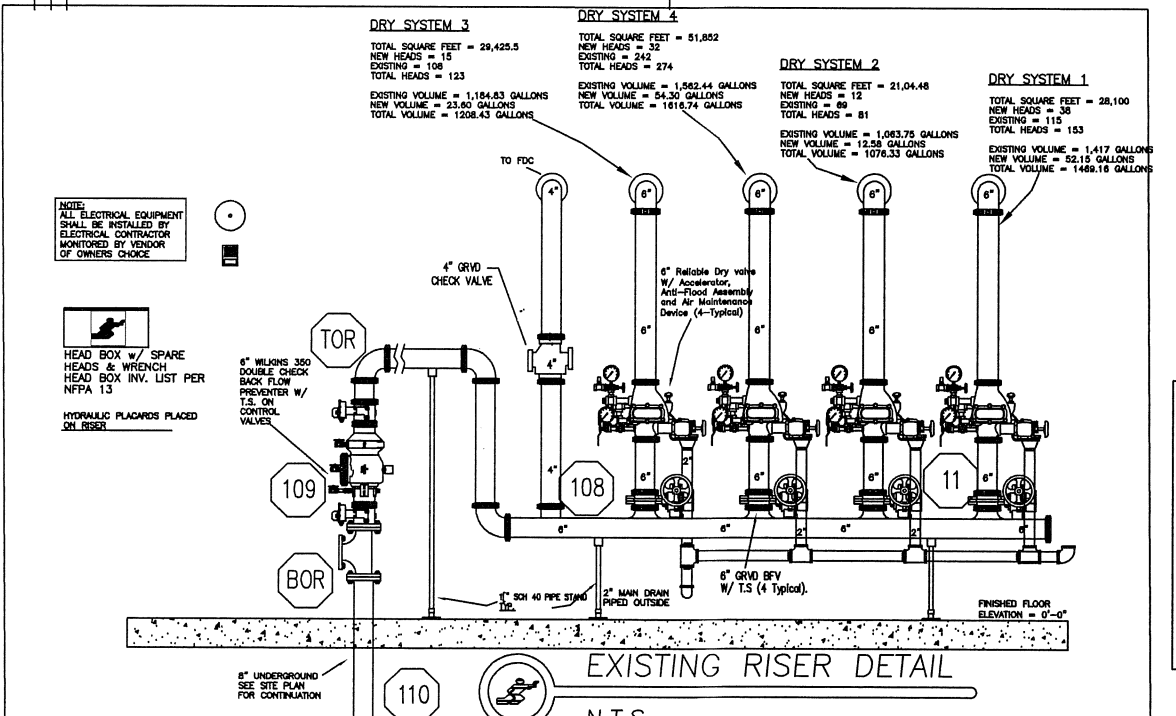


SCOPE OF WORK
 INSTALL NEW FIRE SPRINKLERS AND PIPING TO SYSTEM #1 UTILIZING EXISTING HYDRAULIC CALCULATION (AREA 1). NEW SYSTEM SHALL MATCH PIPE SIZE, AND HEAD SPACING.
 ADD NEW DRY PENDENT SPRINKLERS IN NEW WAREHOUSE OFFICE, AND BATHROOMS (AREA 2).
 ADD NEW PENDENT SPRINKLERS OFF WET SYSTEM AS REQUIRED FOR CORRECT HEAD SPACING IN OFFICE EXPANSION (AREA 3).
 RELOCATE FDC, AND MAIN DRAIN LOCATION DUE TO OFFICE EXPANSION.

HANGERS
 Pipe hangers shall be installed as required by NEPA for supporting sprinkler piping. No other piping and/or devices are to be attached to the sprinkler pipe hanger system unless the hanger has been specifically designed for the additional loading. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.

PIPE MATERIALS
 All pipe to be black steel, with black cast/malleable iron fittings with joints as per NFPA. Pipe shall be as per the following schedule- (unless noted otherwise)
 Line Piping - SCH. 7/40
 X-Main Piping - Schedule 7
 Bulk Main Piping - Schedule 7
 Riser Piping - Schedule 7

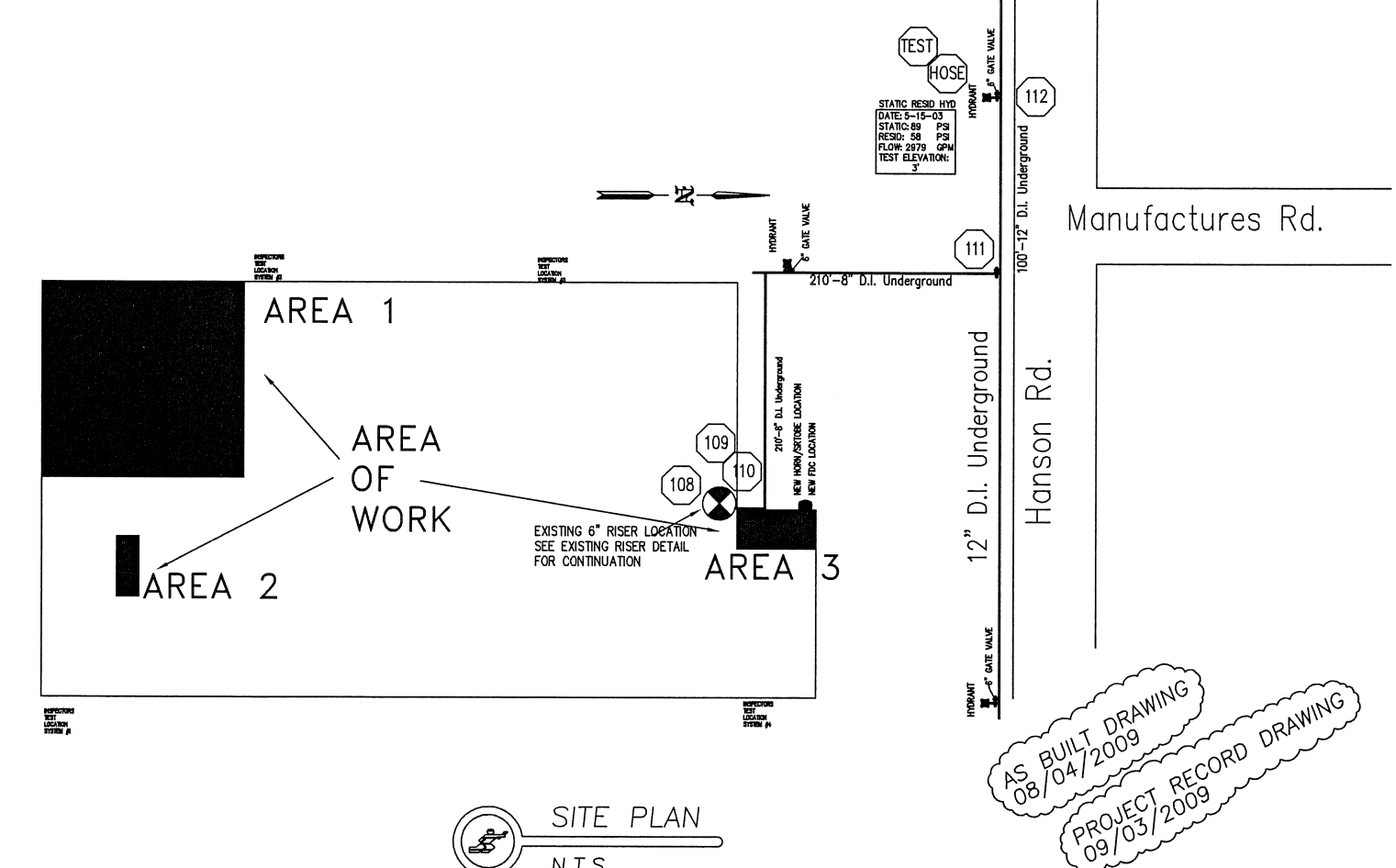
DRY SYSTEM GENERAL NOTES:
 - SYSTEM SHALL BE FITTED TO DRAIN PER NFPA 13 8.16.3.1
 - ALL BRANCH LINE PIPING TO BE FITTED AT LEAST 1/2" PER 10 FEET.
 - ALL MAIN LINE PIPING SHALL BE FITTED AT LEAST 1/4" PER 10 FEET.
 - ALL PENDENT HOSES SHALL BE INSTALLED WITH RETURN BENDS. HOSES AND PIPING ARE IN A HEATED SPACE, AND TO BE INSTALLED PER NFPA 13 7.2.2 (3)
 - PROVIDE DRY AUXILIARY DRAINS AT LOW POINTS IN SYSTEM PER NFPA 13 8.16.2.3
 - PROVIDE ONE SPARE SPRINKLER HEAD CABINET WITH 6 HOSES AND ONE HO. WRENCH, AND HEAD BOX IN EVERY FLOOR.
 - NOTE: BLDG. STORAGE AREAS ARE TO BE ORDINARY HAZARD GROUP-2 PER NFPA 13 3.9.1.4 & 4.3.1.4 NO STORAGE TO BE OVER 12'-0" IN HEIGHT
 - SYSTEM SHALL BE INSTALLED PER NFPA 13 (2022 EDITION) AND STATE OF WISCONSIN FIRE MARSHAL (DRY-SYSTEM)
 - ALL EQUIPMENT FOR THIS SYSTEM SHALL BE UL-LISTED
 - MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
 - ALL HANGERS FOR THIS SYSTEM SHALL BE PER MINIMUM REQUIREMENTS OF NFPA 13 8.16.2.3
 - PROVIDE ONE SPARE SPRINKLER HEAD CABINET WITH 6 HOSES AND ONE HO. WRENCH, AND HEAD BOX IN EVERY FLOOR.
 - NOTE: BLDG. STORAGE AREAS ARE TO BE ORDINARY HAZARD GROUP-2 PER NFPA 13 3.9.1.4 & 4.3.1.4 NO STORAGE TO BE OVER 12'-0" IN HEIGHT
 - ELECTRICAL, MANUAL, ALARM, DETECTION, AND SUPERVISORY BY OTHERS



SPRINKLER SYSTEM COMPONENT LEGEND		SPRINKLER SYSTEM ABBREVIATIONS	
SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION
(H)	HYDRAULIC CALCULATION NODE	ACT	ACCOUSTICAL CEILING TILE
(V)	OS & Y GATE VALVE	AFF	ABOVE FINISHED FLOOR
(B)	DRY BUTTERFLY VALVE W/ TAMPER	DBJ	BOTTOM OF BAR JOIST
(C)	CHECK VALVE	BOB	BOTTOM OF BEAM
(P)	BACK FLOW PREVENTOR W/ GRV BUT VLV	BD	BOTTOM OF DECK
(F)	FIRE PUMP W/ DEVICES	BOS	BOTTOM OF STEEL
(R)	SYSTEM RISER	BD	BOTTOM OF DUCT
(S)	SYSTEM PIPING RISING UP	(C)	CENTER LINE OF PIPING
(D)	SYSTEM PIPING DROPPING DOWN	(OJ)	OUT ON JOIST
(A)	AUXILIARY DRAIN LOCATION	FDC	FIRE DEPARTMENT CONNECTION
(H)	PIPE HANGER LOCATION	FG	FACE OF GIRT
(F)	SAMESE FIRE DEPARTMENT CONNECTION	FFW	FACE OF FINISHED WALL
(A)	HORN STROBE ALARM	GWB	GYPSPUM WALL BOARD
(N)	NOT IN CONTRACT	(N)	NOT TO SCALE
(T)	TOP OF BAR JOIST	(T)	TOP OF BAR JOIST
(S)	TOP OF STEEL	(T)	TOP OF STEEL
(M)	MEASURED FROM SYSTEM AS NOTED	(M)	MEASURED FROM SYSTEM AS NOTED
(E)	EXPOSED TO STRUCTURE	(E)	EXPOSED TO STRUCTURE
(O)	ORDINARY HAZARD OCCUPANCY	(O)	ORDINARY HAZARD OCCUPANCY
(E)	EXTRA 1 HAZARD OCCUPANCY	(E)	EXTRA 1 HAZARD OCCUPANCY
(E)	EXTRA 2 HAZARD OCCUPANCY	(E)	EXTRA 2 HAZARD OCCUPANCY

AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN DATA
 AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN DATA INCLUDING SYSTEM AREA, HAZARD CLASSIFICATIONS, DEMAND AREAS, HYDRAULIC DESIGN DENSITIES, SYSTEM DEMAND FLOWS AND PRESSURES SHALL BE CLEARLY SPECIFIED ADJACENT TO EACH SYSTEM DESIGN AREA.
WELDING AND FABRICATION DATA
 ALL SHOP WELDED SYSTEM COMPONENTS SHALL BE PREPARED AND FABRICATED BY WELDERS AND WELDING OPERATORS MEETING THE REQUIREMENTS OF AWS B2.1, ASME, AND/OR QUALIFICATION STANDARDS SPECIFIED BY THE AHJ OF RECORD.
SPECIAL CONSIDERATIONS
 THE OWNER OF ENTIRE SYSTEMS OR PORTIONS OF SYSTEMS SHALL BE RESPONSIBLE FOR MAINTAINING TEMPERATURES AT OR ABOVE 40°F IN THE AREAS WHERE WET SPRINKLER PIPING MAY BE SUBJECT TO FREEZING.
 THE OWNER OF ENTIRE SYSTEMS OR PORTIONS OF SYSTEMS SHALL BE RESPONSIBLE FOR ALL SHOP WELDED SYSTEM COMPONENTS TESTING AND MAINTENANCE IN ACCORDANCE WITH NFPA 25 2002 ed. FOR ALL SPRINKLER/STANDPIPE SYSTEMS AND COMPONENTS.

AUTOMATIC FIRE SPRINKLER AND/OR STANDPIPE SYSTEM TYPES		FIRE PROTECTION PIPING PLAN	
WET PIPE	DRY PIPE	CLASS	DATE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	03-17-09
<input type="checkbox"/>	<input type="checkbox"/>	2	08-04-09
<input type="checkbox"/>	<input type="checkbox"/>	3	09-03-09
STANDPIPE TYPE N/A		SCALE	AS NOTED
WATER SUPPLY INFORMATION		DATE	03-17-09
LOCATION: HANSON & MANUFACTURES RD.		AUTHORITY HAVING JURISDICTION CITY OF MADISON FIRE DEPARTMENT	
STATIC 89 psi	RATED PRESSURE N/A psi	TEST HEADER INLET SIZE: N/A	TEST HEADER OUTLET SIZE: N/A QTY: N/A
RESIDUAL 58 psi	CHURN PRESSURE N/A %	RATED FLOW N/A GPM	BOOSTER PUMP TYPE: N/A
FLOWING 2979 GPM	TEST DR. JAHERR FP	DATE: 05-15-03	
TEST DR. JAHERR FP	DATE: 05-15-03		



AS BUILT DRAWING
 08/04/2009
 PROJECT RECORD DRAWING
 09/03/2009

Job: **Federal Express**
 3901 Hanson Rd.
 Madison, WI 53714
MONONA PLUMBING AND FIRE PROTECTION, INC.
 3126 WATFORD WAY MADISON, WI 53713
 608-273-4556 FAX 608-273-3446