PORT OF TACOMA

PIERCE COUNTY TERMINAL BUILDING CONSTRUCTION

CONTRACT # 998154

PORT COMMISSIONERS:

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PORT STAFF:

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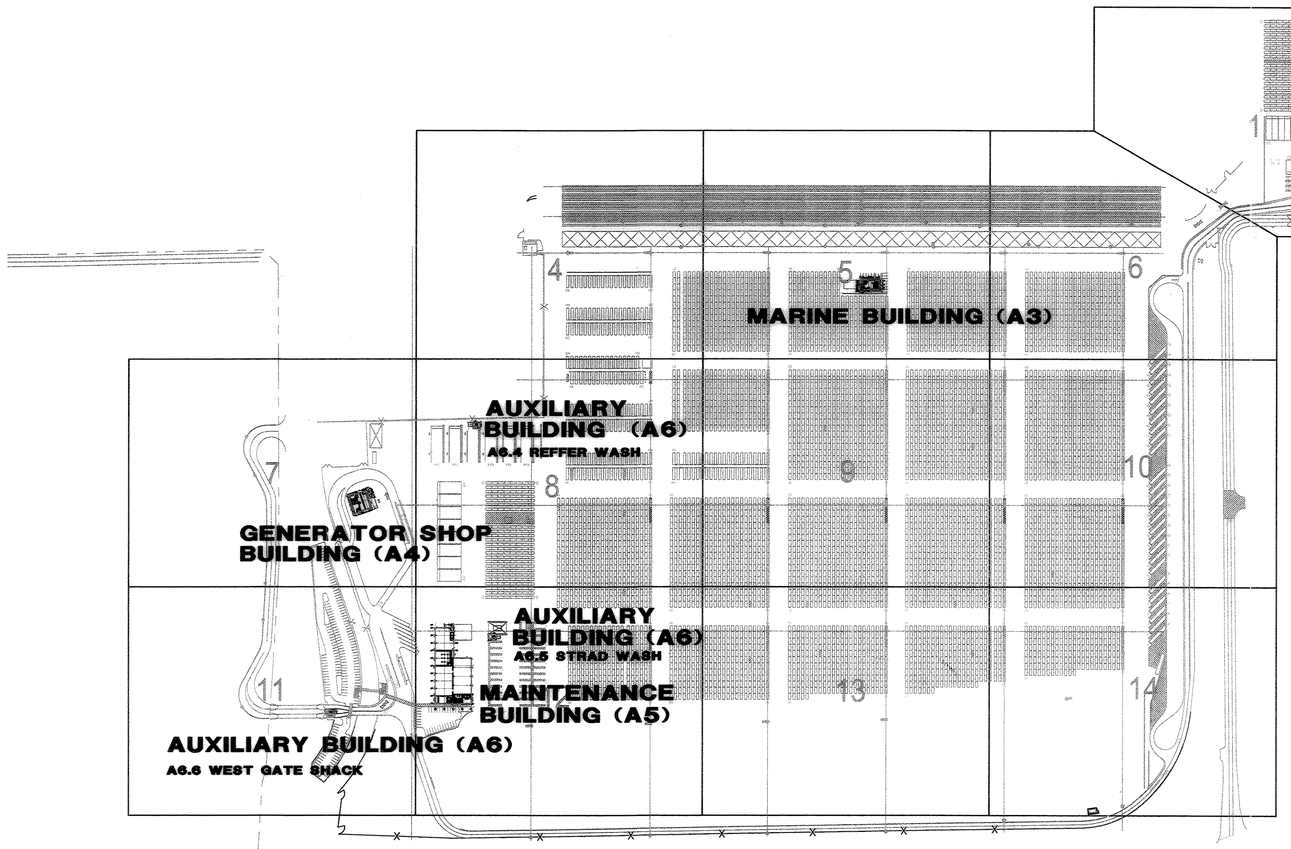
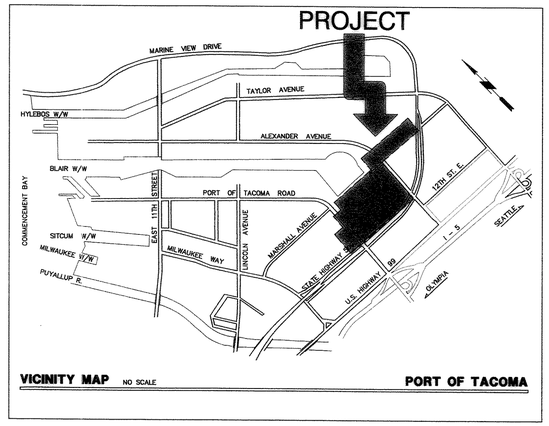
Executive Director

MICHAEL R. ADAMS
Chief Engineer



AUXILIARY BUILDINGS (A6)

A6.1. MAIN GATE SHACK
A6.2. ROADABILITY BUILDING
A6.3. TROUBLE SHACK



VICINITY MAP NO SCALE **PORT OF TACOMA**

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RECORD DRAWING

Helix

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

602 | 12th street east
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APPROVED

CHIEF ENGINEER – DATE

LC CHECKED BY – 8/22/03 DATE
LC PROJECT ENGR – 8/22/03 DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
TITLE SHEET AND OVERALL SITE PLAN

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: N.T.S.

CONTRACT NUMBER: 998154
E-NUMBER: E1097A
PHASE: RECORD DRAWING

EP-~~6551-17~~

A1.G00

SHEET 1 OF 230

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A1 REFERENCE DRAWINGS

(A1 AND AS DRAWING SERIES)

ARCHITECTURAL

A1.G00	TITLE SHEET AND OVERALL SITE PLAN
A1.G01	PROJECT DRAWING INDEX
A1.AS1	ARCHITECTURAL DRAFTING LEGENDS AND SYMBOLS
A1.AS2	STANDARD MOUNTING HEIGHTS

PRIMARY CONTRACTS DRAWINGS

GG1	SITE AVAILABILITY
GG2	RELATED WORK
GG3	WHARF, PHASE 2 DREDGE AND SLIP 5 FILL
GG4	DEMOLITION OF BUILDINGS 8801, 8902, 8903, 8904, AND 8908
GG5	CONTAINER YARD & INTERMODAL YARD
GG6	BUILDING CONSTRUCTION
GG7	RELATED WORK

MECHANICAL DRAWINGS

M1.100	LEGEND AND SCHEDULES
M1.200	DETAILS
M1.201	DETAILS

ELECTRICAL DRAWINGS

E1.100	LEGEND AND LIGHTING FIXTURE SCHEDULE
E1.101	MECHANICAL EQUIPMENT CONN. SCHEDULES
E1.102	LIGHTING CONTROL DIAGRAMS
E1.103	LIGHTING CONTROL DIAGRAMS
E1.104	DIAGRAMS
E1.105	ELECTRICAL DETAILS AND DIAGRAMS
E1.200	ELECTRICAL SITE PLAN

A2 ADMINISTRATION BUILDING

(A2, S2, M2 AND E2 DRAWING SERIES)

A2.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A2.G02	SITE PLAN
A2.100	FLOOR PLANS
A2.110	ROOF PLANS
A2.120	REFLECTED CEILING PLANS
A2.200	FINISH SCHEDULES
A2.300	ELEVATIONS
A2.400	BUILDING SECTION
A2.401	BUILDING SECTION
A2.500	WALL SECTIONS
A2.501	WALL & STAIR SECTION

STRUCTURAL DRAWINGS

S2.001	GENERAL NOTES
S2.002	GENERAL NOTES
S2.101	FOUNDATION AND FRAMING PLANS
S2.102	STAIR PLANS AND SECTIONS
S2.201	BRACED FRAME ELEVATIONS
S2.301	FOUNDATION DETAILS AND SCHEDULES
S2.302	FOUNDATION DETAILS AND SCHEDULES
S2.311	FRAMING DETAILS
S2.312	FRAMING DETAILS
S2.321	COMPOSITE STEEL DECK DETAILS

MECHANICAL DRAWINGS

M2.100	SCHEDULES
M2.210	FOUNDATION & PLUMBING FLOOR PLANS
M2.211	PLUMBING FLOOR PLANS
M2.310	REFLECTED CEILING PLANS
M2.320	FURRED CEILING PLANS
M2.400	MECHANICAL DETAILS
M2.401	MECHANICAL CONTROLS

ELECTRICAL DRAWINGS

E2.100	BUILDING LIGHTING PLAN
E2.200	BUILDING POWER PLAN
E2.201	BUILDING POWER PLAN
E2.300	BUILDING SYSTEMS PLAN
E2.400	BUILDING ELECTRICAL RISER
E2.500	PANEL SCHEDULES

A3 MARINE BUILDING

(A3, S3, M3 AND E3 DRAWING SERIES)

A3.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A3.G02	SITE PLAN
A3.100	FLOOR PLANS
A3.110	ROOF PLAN
A3.120	REFLECTED CEILING PLANS
A3.200	FINISH SCHEDULES
A3.300	ELEVATIONS
A3.400	BUILDING SECTIONS
A3.500	WALL SECTIONS

STRUCTURAL DRAWINGS

S3.001	GENERAL NOTES
S3.002	GENERAL NOTES
S3.101	FOUNDATION AND FRAMING PLANS
S3.102	STAIR PLANS
S3.201	BRACED FRAME ELEVATIONS
S3.301	FOUNDATION DETAILS & SCHEDULES
S3.302	FOUNDATION DETAILS & SCHEDULES
S3.311	FRAMING DETAILS & SCHEDULES
S3.312	FRAMING DETAILS & SCHEDULES
S3.321	COMPOSITE STEEL DECK DETAILS

MECHANICAL DRAWINGS

M3.100	MECHANICAL SCHEDULES
M3.210	FOUNDATION & PLUMBING FLOOR PLANS
M3.310	REFLECTED AND FURRED CEILING PLANS
M3.400	MECHANICAL CONTROLS

ELECTRICAL DRAWINGS

E3.100	BUILDING LIGHTING PLAN
E3.200	BUILDING POWER PLAN
E3.300	BUILDING SYSTEMS PLAN
E3.400	PANEL SCHEDULES

A4 GENERATOR SHOP BUILDING

(A4, S4, M4 AND E4 DRAWING SERIES)

A4.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A4.G02	SITE PLAN
A4.100	FLOOR PLAN
A4.110	ROOF PLAN
A4.120	REFLECTED CEILING PLANS
A4.200	FINISH SCHEDULES
A4.300	ELEVATIONS
A4.400	BUILDING SECTIONS
A4.500	WALL SECTIONS
A4.501	WALL SECTIONS

STRUCTURAL DRAWINGS

S4.001	GENERAL NOTES
S4.002	GENERAL NOTES
S4.101	FOUNDATION AND FRAMING PLANS
S4.201	BRACED FRAME ELEVATIONS
S4.301	FOUNDATION DETAILS AND SCHEDULES
S4.302	FOUNDATION DETAILS AND SCHEDULES
S4.311	FRAMING DETAILS AND SCHEDULES
S4.312	FRAMING DETAILS AND SCHEDULES
S4.321	ROOF FRAMING DETAILS

MECHANICAL DRAWINGS

M4.100	MECHANICAL SCHEDULES
M4.210	FOUNDATION & PLUMBING FLOOR PLAN
M4.310	REFLECTED AND FURRED CEILING PLANS
M4.400	MECHANICAL DETAILS

ELECTRICAL DRAWINGS

E4.100	BUILDING LIGHTING PLAN
E4.200	BUILDING POWER PLAN
E4.300	BUILDING SYSTEMS PLAN
E4.400	BUILDING PANEL SCHEDULES

A5 MAINTENANCE BUILDING

(A5, S5, M5 AND E5 DRAWING SERIES)

A5.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A5.G02	SITE PLAN
A5.100	OVERALL FLOOR PLANS
A5.101	1ST FLOOR SOUTH HALF PLAN
A5.102	1ST FLOOR NORTH HALF PLAN
A5.103	MEZZANINE AND TOWER FLOOR PLANS
A5.110	ROOF PLAN
A5.120	1ST FLOOR NORTH HALF REFLECTED REFLECTED CEILING PLAN
A5.121	1ST FLOOR SOUTH HALF REFLECTED REFLECTED CEILING PLAN
A5.122	MEZZANINE AND TOWER REFLECTED CEILING PLANS
A5.200	FINISH SCHEDULES
A5.300	ELEVATIONS
A5.301	ELEVATIONS
A5.302	ELEVATIONS
A5.303	ELEVATIONS
A5.400	BUILDING SECTIONS
A5.401	BUILDING SECTIONS
A5.402	BUILDING SECTIONS
A5.403	BUILDING SECTIONS
A5.404	BUILDING SECTIONS
A5.500	WALL SECTIONS
A5.501	WALL SECTIONS
A5.502	WALL SECTIONS

STRUCTURAL DRAWINGS

S5.001	GENERAL NOTES
S5.002	GENERAL NOTES
S5.003	LIVE LAND DIAGRAM
S5.101	OVERALL FOUNDATION PLAN
S5.102	PARTIAL FOUNDATION PLAN
S5.103	PARTIAL FOUNDATION PLAN
S5.201	FLOOR FRAMING PLANS
S5.202	CRANE RUNWAY FRAMING PLAN
S5.203	EXTERIOR PLATFORM FRAMING PLAN
S5.204	OVERALL ROOF FRAMING PLAN
S5.205	PARTIAL ROOF FRAMING PLAN
S5.206	PARTIAL ROOF FRAMING PLAN
S5.207	STAIR AND ELEVATOR SHAFT PLANS
S5.301	BUILDING SECTIONS
S5.302	BRACED FRAME ELEVATIONS
S5.401	FOUNDATION DETAILS & SCHEDULES
S5.402	BASE DETAILS
S5.403	ELEVATOR AND STAIR DETAILS
S5.404	BASE PLATE TYPES
S5.411	TYPICAL STEEL CONNECTION DETAILS
S5.412	MOMENT CONNECTION DETAILS
S5.413	BRACE CONNECTION DETAILS
S5.414	BRACE CONNECTION DETAILS
S5.415	TOWER FRAMING DETAILS
S5.416	CRANE DETAILS
S5.417	HOIST RUNWAY CONNECTION DETAILS
S5.418	MISCELLANEOUS CONNECTION DETAIL
S5.419	MISCELLANEOUS CONNECTION DETAIL
S5.421	ROOF DECK
S5.422	COMPOSITE STEEL DECK DETAILS
S5.431	CRANE DETAILS

MECHANICAL DRAWINGS

M5.100	MECHANICAL SCHEDULES
M5.101	MECHANICAL SCHEDULES
M5.210	PARTIAL FOUNDATION PLAN
M5.211	PARTIAL FOUNDATION PLAN
M5.220	PARTIAL PLUMBING FLOOR PLANS
M5.221	PARTIAL PLUMBING FLOOR PLANS
M5.222	PARTIAL PLUMBING FLOOR PLANS
M5.310	PARTIAL REFLECTED CEILING PLAN
M5.311	PARTIAL REFLECTED CEILING PLAN
M5.320	PARTIAL FURRED CEILING PLANS
M5.321	PARTIAL FURRED CEILING PLANS
M5.322	PARTIAL FURRED CEILING PLANS
M5.400	MECHANICAL DETAILS
M5.401	MECHANICAL DETAILS
M5.402	MECHANICAL DETAILS
M5.403	MECHANICAL DIAGRAMS & DETAILS
M5.404	MECHANICAL CONTROLS

ELECTRICAL DRAWINGS

E5.100	BUILDING LIGHTING PLAN
E5.101	BUILDING LIGHTING PLAN
E5.102	BUILDING LIGHTING PLAN
E5.200	BUILDING POWER PLAN
E5.201	BUILDING POWER PLAN
E5.202	BUILDING POWER PLAN
E5.300	BUILDING SYSTEMS PLAN
E5.301	BUILDING SYSTEMS PLAN
E5.302	BUILDING SYSTEMS PLAN
E5.400	BUILDING ELECTRICAL RISER
E5.500	PANEL SCHEDULES
E5.501	PANEL SCHEDULES

A6 AUXILIARY BUILDINGS

(A6, S6, M6 AND E6 DRAWING SERIES)

BUILDING DESIGNATIONS

A6.1	MAIN GUARD SHACK
	MAIN GUARD CANOPY (SEE CIVIL DRAWINGS)
A6.2	ROADABILITY CANOPY AND BUILDING
A6.3	TROUBLE SHACK
A6.4	REEFER STEAM WASH
A6.5	STRAD STEAM WASH
A6.6	WEST GUARD SHACK

A6.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A6.100	SITE AND FLOOR PLANS
A6.101	SITE AND FLOOR PLANS
A6.120	REFLECTED CEILING PLANS
A6.200	FINISH SCHEDULES
A6.300	ELEVATIONS
A6.400	BUILDING SECTIONS

STRUCTURAL DRAWINGS

S6.001	GENERAL NOTES
S6.002	GENERAL NOTES
S6.101	FOUNDATION AND FRAMING PLANS
S6.102	FOUNDATION AND FRAMING PLANS
S6.301	FOUNDATION DETAILS AND SCHEDULES
S6.302	STRUCTURAL DETAILS AND SCHEDULES

MECHANICAL DRAWINGS

M6.100	MECHANICAL SCHEDULES
M6.210	PLUMBING FONDATION PLANS
M6.220	PLUMBING FLOOR PLANS
M6.221	ENLARGED WASH BLDG PLUMBING PLANS
M6.310	MECHANICAL HVAC PLANS
M6.400	MECHANICAL DIAGRAMS
M6.401	MECHANICAL DIAGRAMS

ELECTRICAL DRAWINGS

E6.100	BUILDING LIGHTING PLAN
E6.200	BUILDING POWER PLAN
E6.300	BUILDING SYSTEMS PLAN
E6.400	PANEL SCHEDULES

A7 STANDARDS AND DETAILS

(A7 DRAWING SERIES)

ARCHITECTURAL DRAWINGS

A7.600	SITE DETAILS
A7.601	EXTERIOR WALL DETAILS
A7.602	EXTERIOR WALL DETAILS
A7.603	WINDOW AND STOREFRONT DETAILS
A7.604	WINDOW AND STOREFRONT DETAILS
A7.605	OVERHEAD AND HOLLOW METAL DOORS
A7.606	CANOPY, GUARDRAILING AND DECK DETAILS
A7.607	MISCELLANEOUS EXTERIOR DETAILS
A7.608	ENLARGED PLANS – STAIRS
A7.609	ENLARGED PLANS – STAIRS
A7.610	ENLARGED PLANS – STAIRS
A7.611	INTERIOR ELEVATIONS
A7.612	CASEWORK ELEVATIONS
A7.613	CASEWORK ELEVATIONS & INTERIOR DETAILS

FILE NUMBER: C:\E197441.G01.DWG

RECORD DRAWING

PORT OF TACOMA
USA
PORT OF TACOMA P.O. BOX 1837
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APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE: 12/30/04
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY – 8/22/03

LC PROJECT ENGR. – 8/22/03

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ. VERT.
DRAWING SCALE: N.T.S.

CONTRACT NUMBER: 998154
PHASE: RECORD DRAWING

PORT OF TACOMA
PIERCE COUNTY TERMINAL
PROJECT DRAWING INDEX

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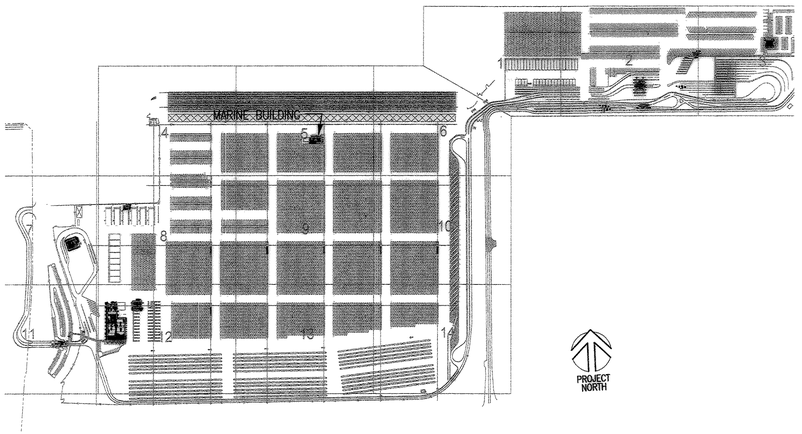
PORT OF TACOMA

PIERCE COUNTY TERMINAL

MARINE BUILDING SET

KEY PLAN



BUILDING INFORMATION

BUILDING AREA	
FIRST FLOOR	1,750 SQ. FT.
SECOND FLOOR	1,750 SQ. FT.
TOTAL	3,500 SQ. FT.
FIRE SPRINKLERS	NO
CODE INFORMATION	
OCCUPANCY GROUPS	B – OFFICE A-3 – BREAK
CONSTRUCTION TYPE	V-N
MAXIMUM ALLOWABLE BUILDING HEIGHT	40 FT.
MAXIMUM ALLOWABLE BUILDING STORIES	2 STORIES
ALLOWABLE FLOOR AREA	
ALL FLOORS	8,000 SQ. FT.
OCCUPANT LOAD	
FIRST FLOOR	78 OCCUPANTS
SECOND FLOOR	10 OCCUPANTS
TOTAL	88 OCCUPANTS

SHEET INDEX

A3.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A3.G02 SITE PLAN
A3.100 FLOOR PLANS
A3.110 ROOF PLAN
A3.120 REFLECTED CEILING PLANS
A3.200 FINISH SCHEDULES
A3.300 ELEVATIONS
A3.400 BUILDING SECTIONS
A3.500 WALL SECTIONS

STRUCTURAL DRAWINGS

S3.001 GENERAL NOTES
S3.002 GENERAL NOTES
S3.101 FOUNDATION AND FRAMING PLANS
S3.102 STAIR PLANS
S3.201 BRACED FRAME ELEVATIONS
S3.301 FOUNDATION DETAILS & SCHEDULES
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S3.311 FRAMING DETAILS & SCHEDULES
S3.312 FRAMING DETAILS & SCHEDULES
S3.321 COMPOSITE STEEL DECK DETAILS
S3.331 ROOF FRAMING DETAILS

MECHANICAL DRAWINGS

M3.100 SCHEDULES
M3.210 PLUMBING PLANS
M3.310 RCP AND FURRED CEILING PLANS

ELECTRICAL DRAWINGS

E3.100 BUILDING LIGHTING PLAN
E3.200 BUILDING POWER PLAN
E3.300 BUILDING SYSTEMS PLAN
E3.400 PANEL SCHEDULES

Project Team

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AMERICAN INSTITUTE OF ARCHITECTS

6321-17

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USA

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PORT OF TACOMA
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MARINE BUILDING

TOWNSHIP: RANGE: SECTION:
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DRAWING SCALE: NTS

CONTRACT NUMBER: 998154
E NUMBER: E19774
PHASE: RECORD DRAWING

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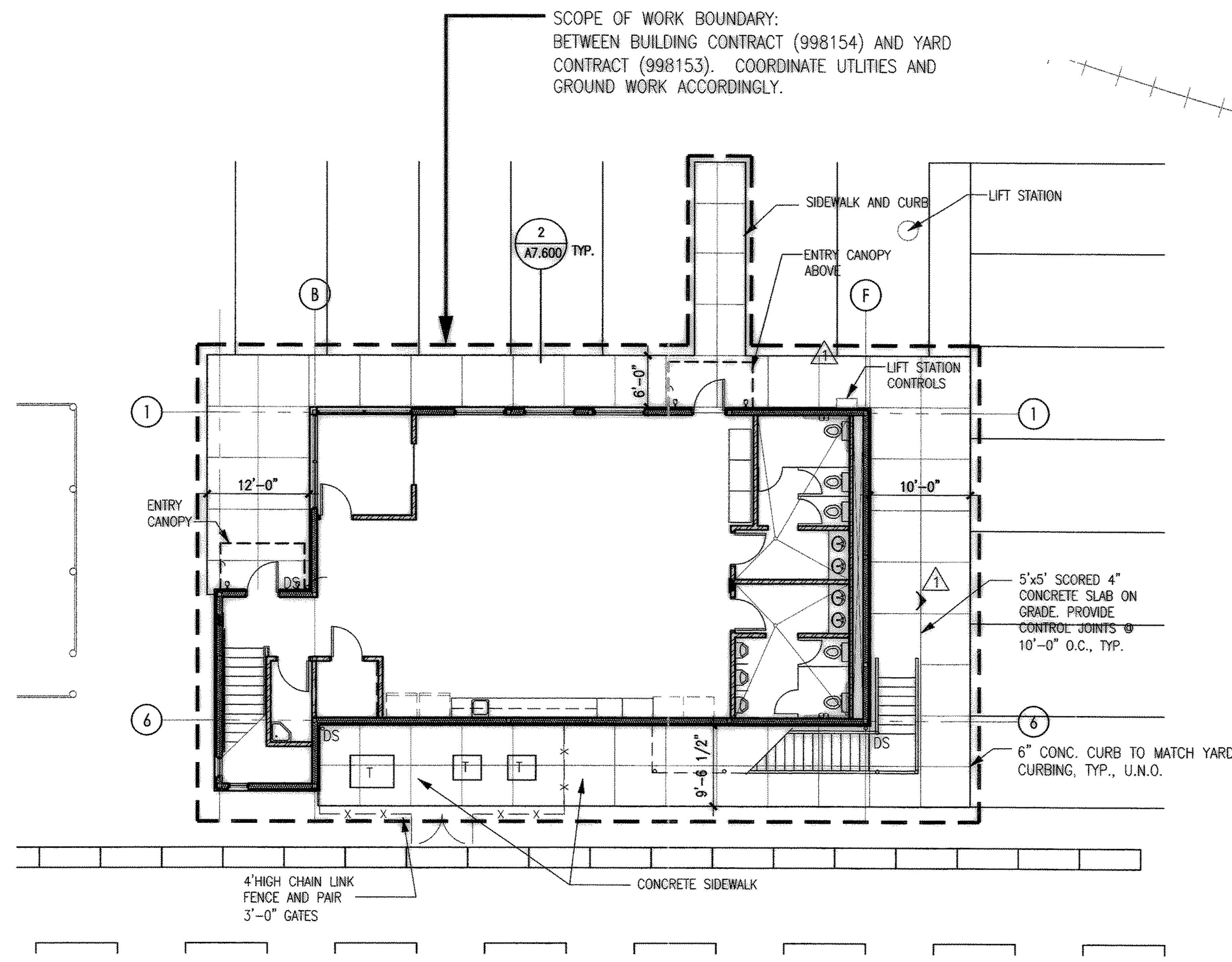
A3.G01
SHEET 56 OF 230



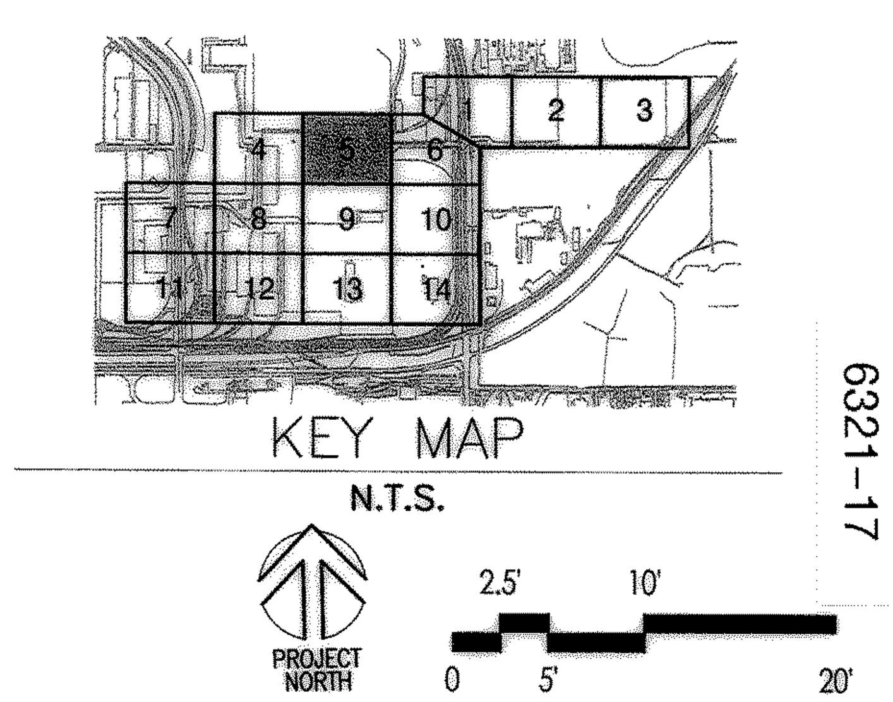
1 MARINE BUILDING SITE PLAN F.F. = 21.75'

SCALE: 1"=10'-0" | PEC | E2164A_FP-01.DWG

FOR FINISHED FLOOR ELEVATION AND BUILDING CORNER LOCATIONS REFER TO CONTRACT (998153) PROVIDE 1:20 SIDEWALK CROSS SLOPE

SITE PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT
PROPERTY LINE length (ft) angle (survey)	100.00' N 90°00'00" W
ADJACENT PROPERTY LINE adjacent parcel lines	100.00' N 90°00'00" W
PROPERTY SETBACK LINE description and dimension	10'-0" FRONT YARD SETBACK
EASEMENT description and dimension	5'-0" UTILITY EASEMENT
FINISH GRADE ELEVATION existing (E)	EL. 0.00
LANDSCAPING	
BUILDING OUTLINE description, f.f. elevation, building dimensions, orientation	40.0' 20.0' BUILDING F.F. = 0.00'
FUTURE BUILDING/ PHASE OUTLINE description and phase	FUTURE ADDITION PHASE II
CONTAINER	
JERSEY BARRIER	
FENCE height/description	6' CHAINLINK FENCE
PARKING STALL AND LANDSCAPE PLANTER row count, compact stall indicator (C), wheel stops where indicated, concrete curb	2 C C R=2' 18'-0"
HANDICAPPED PARKING STALLS row count, handicap stall indicator (HC), concrete curb, curb cut, HC signs, 2% max. slope all directions	2 HC VAN HC 26'-0"
LIGHT POLE	
FIRE HYDRANT	FH
MONUMENT ENTRY SIGN description, shape, material	ENTRY SIGN (STONE)
CENTERLINE OF ROAD description	℄ STREET NAME
EDGE OF ROAD description	EDGE OF PAVEMENT



KEY MAP
N.T.S.

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA U.S.A.

PORT OF TACOMA P.O. BOX 1837 TACOMA, WA 98401 253-383-5841

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RECORD DRAWING

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PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1" = 10'

EP-~~6551-17~~

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CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

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GRILLES–REGISTERS–DIFFUSERS SCHEDULE

UNIT NO	DESCRIPTION	MFR.	MODEL	CFM	AIR PATTERN	MOUNTING	FACE SIZE	NECK SIZE	COLOR	REMARKS
CD–1	CEILING DIFFUSER	TITUS	TDC–1	PER PLANS	2 WAY	T–BAR	23¾ x 23¾	PER PLANS	WHITE	FRAME 3
CD–2	CEILING DIFFUSER	TITUS	TDC–2	PER PLANS	2 WAY	T–BAR	23¾ x 23¾	PER PLANS	WHITE	FRAME 3
CD–3	CEILING DIFFUSER	TITUS	TDC–3	PER PLANS	3 WAY	T–BAR	23¾ x 23¾	PER PLANS	WHITE	FRAME 3
CD–4	CEILING DIFFUSER	TITUS	TDC–4	PER PLANS	4 WAY	T–BAR	23¾ x 23¾	PER PLANS	WHITE	FRAME 3
CDH–	CEILING DIFFUSER	TITUS	②	PER PLANS	②	SURFACE	NECK SIZE +5¾" TOTAL	PER PLANS	WHITE	③ FRAME 6
X–LSSX–X	LINEAR SLOT SUPPLY DIFFUSER	TITUS	FL	PER PLANS	2 WAY	SURFACE	5¾" HIGH	PER PLANS	AS SELECT. BY ARCH.	①
RD	ROUND DUCT DIFFUSER	TITUS	TMRA	PER PLANS	360°	SURFACE	NECK SIZE +2" TOTAL	PER PLANS	WHITE	
SDS	SIDEWALL SUPPLY DIFFUSER	TITUS	300RL	PER PLANS	DBL. DEFLICTION	SURFACE	NECK SIZE +1¾ TOTAL	PER PLANS	WHITE	③④ WITHOUT MOUNTING HOLES.
RG	RETURN/RELIEF GRILLE	TITUS	50F–A	PER PLANS	–	T–BAR	NECK SIZE +1" TOTAL	PER PLANS	WHITE	WITHOUT MOUNTING HOLES
RGH	RETURN/RELIEF GRILLE	TITUS	50F–A	PER PLANS	–	SURFACE	NECK SIZE +1¾" TOTAL	PER PLANS	WHITE	③
RGS	SIDEWALL RETURN/ RELIEF GRILLE	TITUS	350 RL	PER PLANS	–	SURFACE	NECK SIZE +1¾" TOTAL	PER PLANS	WHITE	③④ WITHOUT MOUNTING HOLES
EG	EXHAUST GRILLE	TITUS	50F–A	PER PLANS	–	T–BAR	NECK SIZE +1" TOTAL	PER PLANS	WHITE	
EGS	SIDEWALL RETURN/ RELIEF GRILLE	TITUS	350 RL	PER PLANS	–	SURFACE	NECK SIZE +1¾" TOTAL	PER PLANS	WHITE	③④ WITHOUT MOUNTING HOLES
EGH	EXHAUST GRILLE	TITUS	50F–A	PER PLANS	–	SURFACE	NECK SIZE +1¾" TOTAL	PER PLANS	WHITE	③
TGS	SIDEWALL/ TRANSFER GRILLE	TITUS	350 RL	PER PLANS	–	SURFACE	NECK SIZE +1¾" TOTAL	PER PLANS	WHITE	③④ WITHOUT MOUNTING HOLES

NOTES FOR GRILLES, REGISTERS, DIFFUSERS SCHEDULE:

① PROVIDE WITH INSULATED PLENUM BOXES.
SLOT DIFFUSER CALLOUT
X – LSSX – X
– # OF SLOTS
– LENGTH OF SLOT (FT)
– SLOT WIDTH (IN)

② MODEL No. & AIR PATTERN SHALL BE SAME AS CD–1 THRU CD–4, EXCEPT PROVIDE FOR MOUNTING INDICATED.

③ FURNISH WITH "OPPOSED BLADE DAMPER"(OBD).

④ FURNISH WITH HORIZONTAL FRONT BLADES.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
— — —	COLD WATER (CW)
— — —	HOT WATER (HW)
– – – – –	HOT WATER CIRCULATION (HWC)
	WASTE OR SANITARY SEWER
—OW—	OIL WASTE
- - - - - - - - -	VENT (V)
— OW —	ONLY WASTE
— A —	COMPRESSED AIR PIPING
— F —	FIRE MAIN / FIRE SPRINKLER PIPING
— CG —	CHASSIS GREASE PIPING
— EO —	ENGINE OIL PIPING
— HO —	HYDRAULIC OIL PIPING
— AF —	ANTIFREEZE PIPING
— GO —	GEAR OIL PIPING
— WO —	WASTE OIL PIPING
— EA —	EXTRACTION SYS. COMPRESSED AIR PIPING
—RL—	RAIN LEADER
—ST—	STORM
— COND —	CONDENSATE PIPING
	VENT THRU ROOF (VTR)
	WALL CLEAN OUT (WCO)
	FLUSH/SURFACE CLEANOUT (FCO/SCO)
	CLEAN OUT (CO)
RD	ROOF DRAIN WITH RAIN LEADER
	FLOOR DRAIN (FD)
	FLOOR & FUNNEL DRAIN (F&FD)
▲	TRAP PRIMER WITH ACCESS PANEL
	FREEZEPROOF WALL HYDRANT (FWH)
	FREEZEPROOF BOX HYDRANT (FBH)
	GAS COCK
	GAS SOLENOID VALVE

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— L —	LIQUID (REFRIGERANT)		SUPPLY DUCT DOWN
— S —	SUCTION (REFRIGERANT)		RETURN, RELIEF, TRANSFER, OSA DUCT UP
	GATE VALVE (GV)		RETURN, RELIEF, TRANSFER, OSA DUCT DOWN
	GLOBE VALVE		EXHAUST DUCT UP
	BUTTERFLY VALVE		EXHAUST DUCT DOWN
	PRESSURE REDUCING VALVE (PRV)		RECTANGULAR DUCT SQUARE ELBOW UP
	CHECK VALVE (CV)		RECTANGULAR DUCT, RADIUS ELBOW UP
	FLOW CONTROL VALVE		RECTANGULAR DUCT, SQUARE ELBOW DOWN
	TEMP./PRESS. RELIEF VALVE (T&PRV)		RECTANGULAR DUCT, RADIUS ELBOW DOWN
	BALL VALVE		ROUND DUCT ELBOW DOWN
	BALANCING COCK (BC)		ROUND DUCT ELBOW UP
	PIPE DOWN		CEILING AIR TERMINAL – SQUARE
	PIPE UP		CEILING AIR TERMINAL – ROUND
	BRANCH–TOP CONNECTION	12 X 12 CD 300 CFM	AIR TERMINAL SIZE, TYPE & CFM
	BRANCH–BOTTOM CONNECTION		FLEXIBLE DUCT
	BRANCH–SIDE CONNECTION		VOLUME DAMPER (VD)
	CAP END OF PIPE	M	MOTORIZED DAMPER
	FLOW DIRECTION		CEILING RADIANT FIRE DAMPER
OR	VALVE IN RISER / DROP		FIRE DAMPER
	PIPE ANCHOR		COMBINATION FIRE/SMOKE DAMPER
	PIPE GUIDE		FLEXIBLE CONNECTION (DUCT)
	FLEXIBLE CONNECTION (PIPE)		TURNING VANES (TV)
	REDUCER		BACKDRAFT DAMPER (BD)
	STRAINER	T	THERMOSTAT (T'STAT)
	UNION	T G	THERMOSTAT WITH GUARD (T'STAT)
	THRUST BLOCK (TB)	PS	SPACE PRESSURE SENSOR
	DRAIN VALVE	CO2	CARBON DIOXIDE SENSOR
	VACUUM BREAKER	AFF	ABOVE FINISHED FLOOR
P	PRESSURE GAUGE	BFF	BELOW FINISHED FLOOR
T	THERMOMETER	MC	MECHANICAL CONTRACTOR
	AQUASTAT	EC	ELECTRICAL CONTRACTOR
	SUPPLY DUCT UP	GC	GENERAL CONTRACTOR

PLUMBING FIXTURE SCHEDULE

UNIT NO	FIXTURE	MOUNTING	MANUFACTURER AND MODEL NUMBERS	W	V	HW	CW	REMARKS
P–1	WATER CLOSET	WALL	TOILET: KOHLER, KINGSTON #K–4330 SEAT: CHURCH #9500C FLUSH VALVE: SLOAN ROYAL #8111	4"	2"	–	1"	
P–1A	WATER CLOSET	WALL	TOILET: KOHLER, KINGSTON #K–4330 SEAT: CHURCH #9500C FLUSH VALVE: SLOAN ROYAL #8111	4"	2"	–	1"	ADA COMPLIANT, SEAT MUST BE 17" HIGH MINIMUM 19" HIGH MAXIMUM.
P–1C	WATER CLOSET	FLOOR	TOILET: KOHLER, HIGHCLIFF #K–4368 SEAT: CHURCH #9500C FLUSH VALVE: SLOAN ROYAL #8111	4"	2"	–	1"	PROVIDE BOLT CAPS.
P–1D	WATER CLOSET	FLOOR	TOILET: KOHLER, HIGHCLIFF #K–4368 SEAT: CHURCH #9500C FLUSH VALVE: SLOAN ROYAL #8111	4"	2"	–	1"	ADA COMPLIANT, SEAT MUST BE 17" HIGH MINIMUM, PROVIDE BOLT CAPS.
P–2	URINAL	WALL	URINAL: KOHLER, BARDON #K–4960–T FLUSH VALVE: SLOAN ROYAL #8186–1	2"	1½"	–	¾"	
P–2A	URINAL	WALL	URINAL: KOHLER, BARDON #K–4960–T FLUSH VALVE: SLOAN ROYAL #8186–1	2"	1½"	–	¾"	ADA COMPLIANT URINAL RIM TO BE 17" ABOVE FINISHED FLOOR
P–3	LAVATORY	WALL	SINK: KOHLER, KINGSTON #K–2005 FITTINGS: SYMMONS SCOT #S–60–G SUPPLIES: EBC #LAH16 TRAP: EBC #TS140	2"	1½"	½"	½"	
P–3A	LAVATORY	WALL	SINK: KOHLER, KINGSTON #K–2005 FITTINGS: SYMMONS SCOT #S–60–G–H SUPPLIES: EBC #LAH16 TRAP: EBC #TS140	2"	1½"	½"	½"	ADA COMPLIANT, PROVIDE WITH EBC INSTITUTIONAL ADA INSULATOR KIT.
P–3B	LAVATORY	COUNTER	SINK: KOHLER, PENNINGTON #K–2904 FITTINGS: SYMMONS SCOT #S–60–G–H SUPPLY: EBC #LAH16 TRAP: EBC #TS140	2"	1½"	½"	½"	
P–3C	LAVATORY	COUNTER	SINK: KOHLER, PENNINGTON #K–2904 FITTINGS: SYMMONS SCOT #S–60–G–H SUPPLY: EBC #LAH16 TRAP: EBC #TS140	2"	1½"	½"	½"	ADA COMPLIANT, PROVIDE WITH EBC INSTITUTIONAL ADA INSULATOR KIT.
P–4	WORK SINK	COUNTER	SINK: JUST #SL–1921–A–GR FITTINGS: CHICAGO FAUCETS #786–GN8A–E3–317 SUPPLIES: EBC #LAH16 WASTE: JUST #J–35–FS TRAP: EBC #TS150	2"	1½"	½"	½"	
P–5	SERVICE SINK	FLOOR	FIXTURE: FLORESTONE #MSR–2424 FITTINGS: CHICAGO FAUCETS #897VB WASTE: FLORESTONE #MR–375 TRAP: CAST IRON	3"	2"	¾"	¾"	PROVIDE WITH WEDGE–LOK SEAL #MR–374
P–6	SHOWER	STALL	STALL: FIBER–FAB #63 BF CONTROLS: SYMMONS #96–1–150 SHOWER UNIT	2"	1½"	½"	½"	MOUNT SHOWER CONTROL AT 42" ABOVE SHOWER FLOOR, 2GPM SHOWERHEAD. PROVIDE TRAP PRIMER CONNECTION
P–6A	SHOWER	STALL	STALL: FIBER–FAB #63 HI CONTROLS: SYMMONS #96–1–150 SHOWER UNIT	2"	1½"	½"	½"	PROVIDE STALL WITH LOW PROFILE BOTTOM FOR INSTALLATION FLUSH W/ FLOOR. PROVIED 2" SHOWER DRAIN & HEAVY DUTY CURTAIN & HOOKS. PROVIDE TRAP PRIMER CONNECTION.
P–6B	SHOWER	STALL	STALL: FIBER–FAB #48 HI CONTROLS: SYMMONS #96–1–150 SHOWER UNIT	2"	1½"	½"	½"	PROVIDE STALL WITH LOW PROFILE BOTTOM FOR INSTALLATION FLUSH W/ FLOOR. PROVIED 2" SHOWER DRAIN & HEAVY DUTY CURTAIN & HOOKS. PROVIDE TRAP PRIMER CONNECTION.
P–7	WASH FOUNTAIN (CEMI)	FLOOR	BRADLEY SENTRY #SN2003–A–AST–F–STD–TMA–NSD–BS	1½"	1½"	1"	1"	VERIFY RIM HEIGHT, FURNISH COMPLETE WITH SUPPLY STOPS, STRAINER AND P–TRAP
P–8	EMERGENCY EYEWASH	WALL	CHICAGO FAUCETS #9007	2"	1½"	–	½"	HEAVY GAUGE CORROSION RESISTANT STAINLESS STEEL BOWL
P–9	WALL HYDRANT HOT AND COLD	WALL	J.R. SMITH #5760 "TWIN TEMP"	–	–	¾"	¾"	BRONZE BOX HYDRANT CHROME PLATED FACE & 'T' HANDLE KEY
P–10	TRENCH DRAIN	FLOOR	DRAIN: JR SMITH 9819 GRATE: JR SMITH 9870–461	4"	–	–	–	
P–10A	TRENCH DRAIN	FLOOR	DRAIN: JR SMITH 9819 GRATE: JR SMITH 9870–461	4"	–	–	–	PROVIDE WITH INTEGRAL CATCH BASIN & GALVANIZED SEDIMENT BUCKET.
P–11	WALL HYDRANT	WALL	J.R. SMITH #5609QT	–	–	–	¾"	BRONZE BOX HYDRANT CHROME PLATED FACE & 'T' HANDLE KEY
P–12	DRINKING FOUNTAIN ADA	WALL	HAWS #1118 STAINLESS STEEL, FURNISH WITH TRAP, SERVICE SUPPLY STOP AND SUPPORT SYSTEM	2"	1½"	–	½"	BARRIER FREE, SELF–CLOSING FRONT PUSH BAR, STREAM REGULATOR
P–13	AUXILIARY BUILDING LAVATORY	WALL	SINK: KOHLER, KINGSTON #2005 SUPPLIES: EBC #LAH16 TRAP: EBC #TS140	2"	1½"	–	–	INSTALLATION AND ALL COMPONENTS SHALL BE ADA COMPLIANT. PROVIDE WITH EBC ADA INSULATOR KIT.

BCE ENGINEERS, INC.
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6321-17

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MECHANICAL LEGENDS AND SCHEDULES

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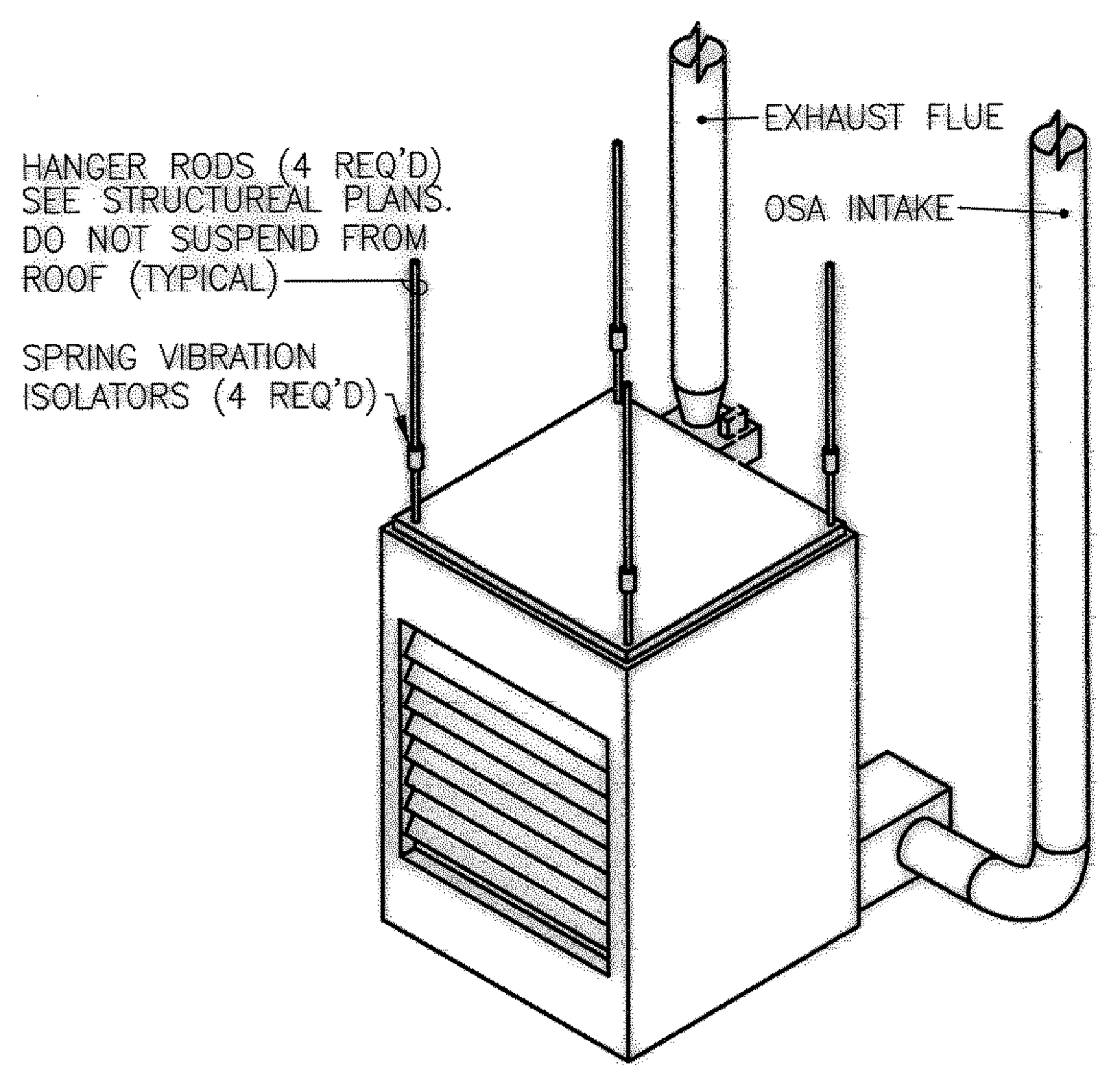
M1.100

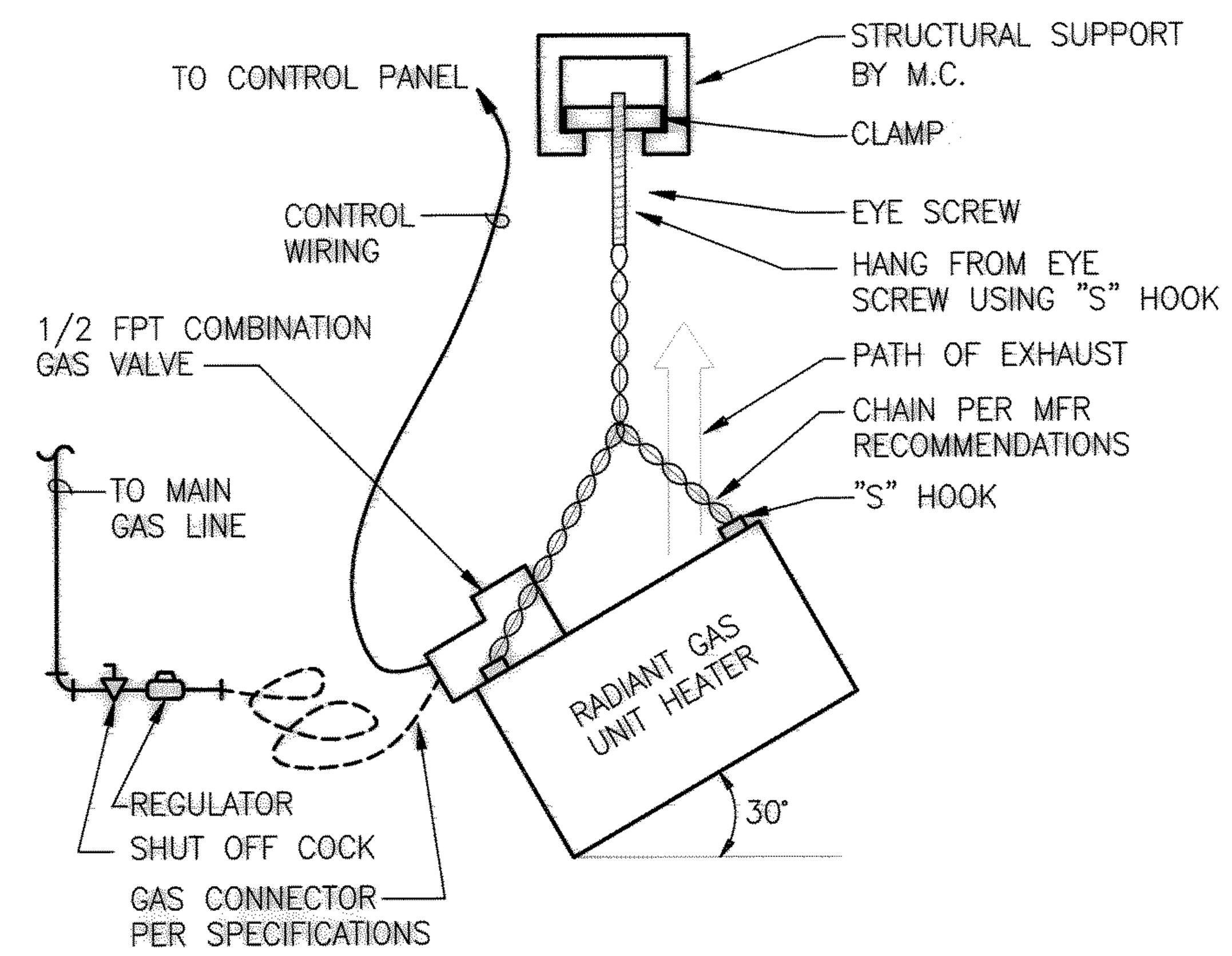
SHEET 12 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS



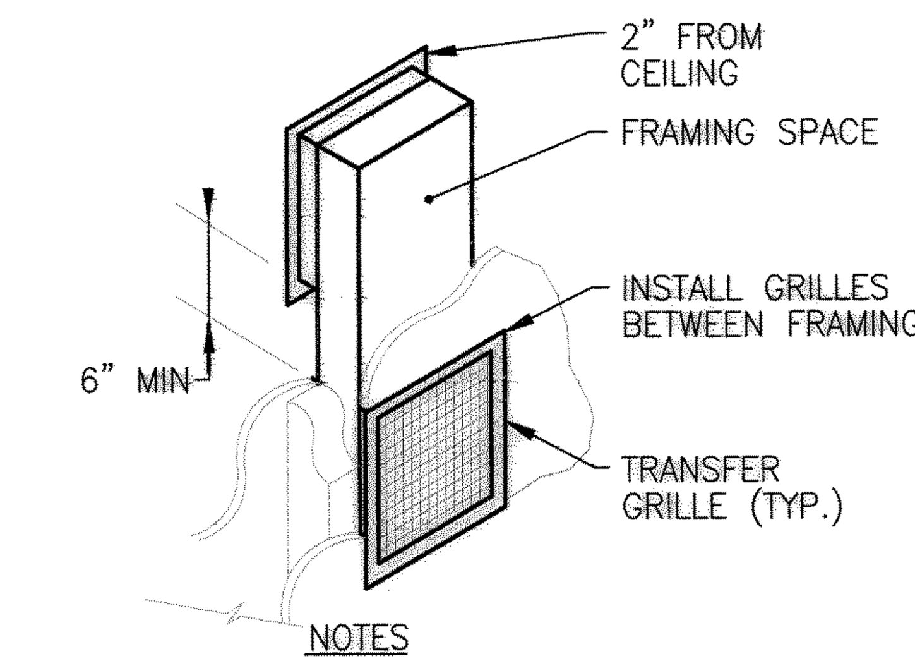
TYPICAL GAS UNIT HEATER INSTALLATION DETAIL

NO SCALE



TYPICAL RADIANT HEATER INSTALLATION DETAIL

DIAGRAMATIC

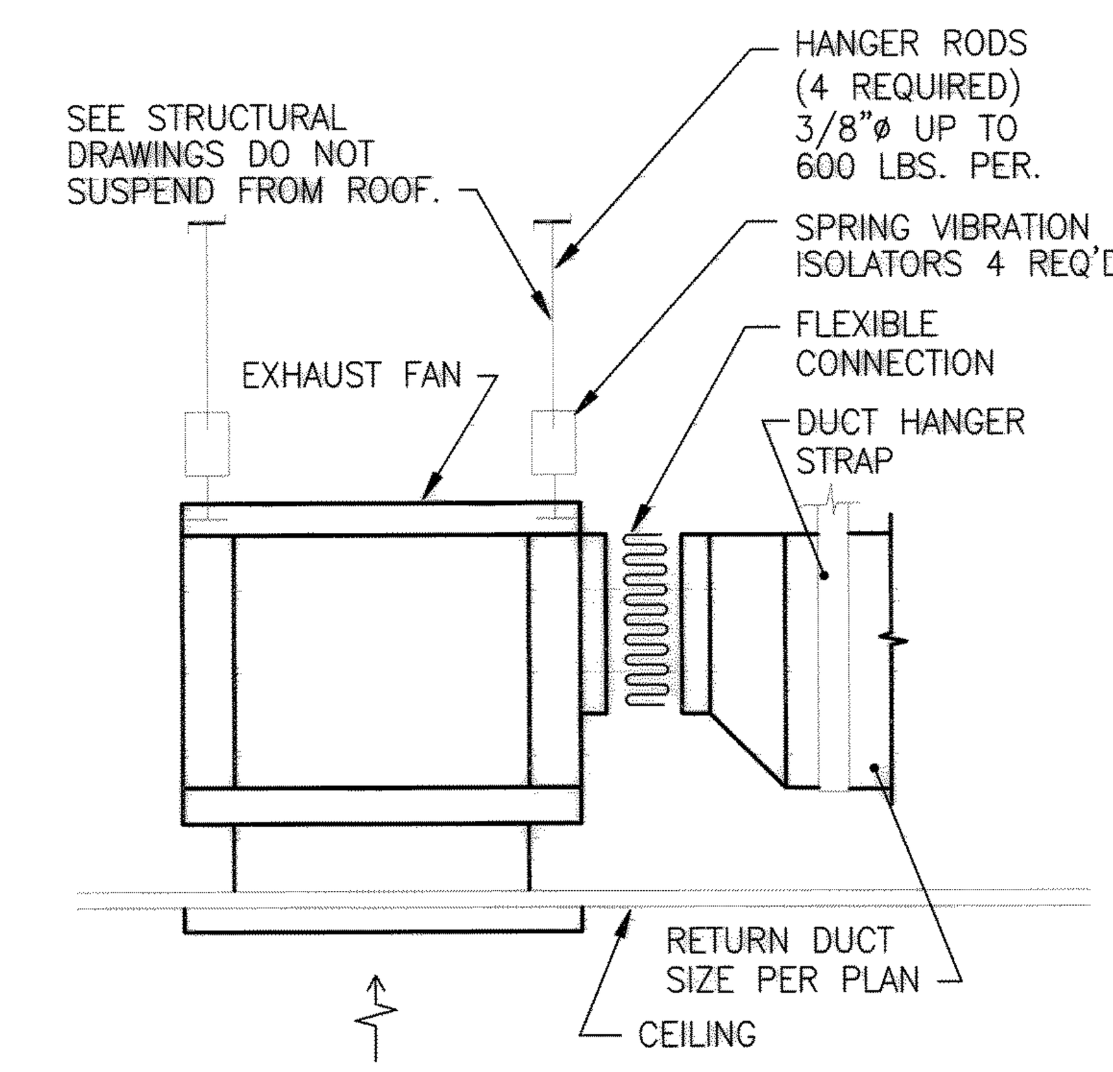


NOTES

1. OFFSET GRILLES FOR PRIVACY.
2. PAINT WALL FLAT BLACK BEHIND GRILLE.

TRANSFER GRILLE INSTALLATION DETAIL

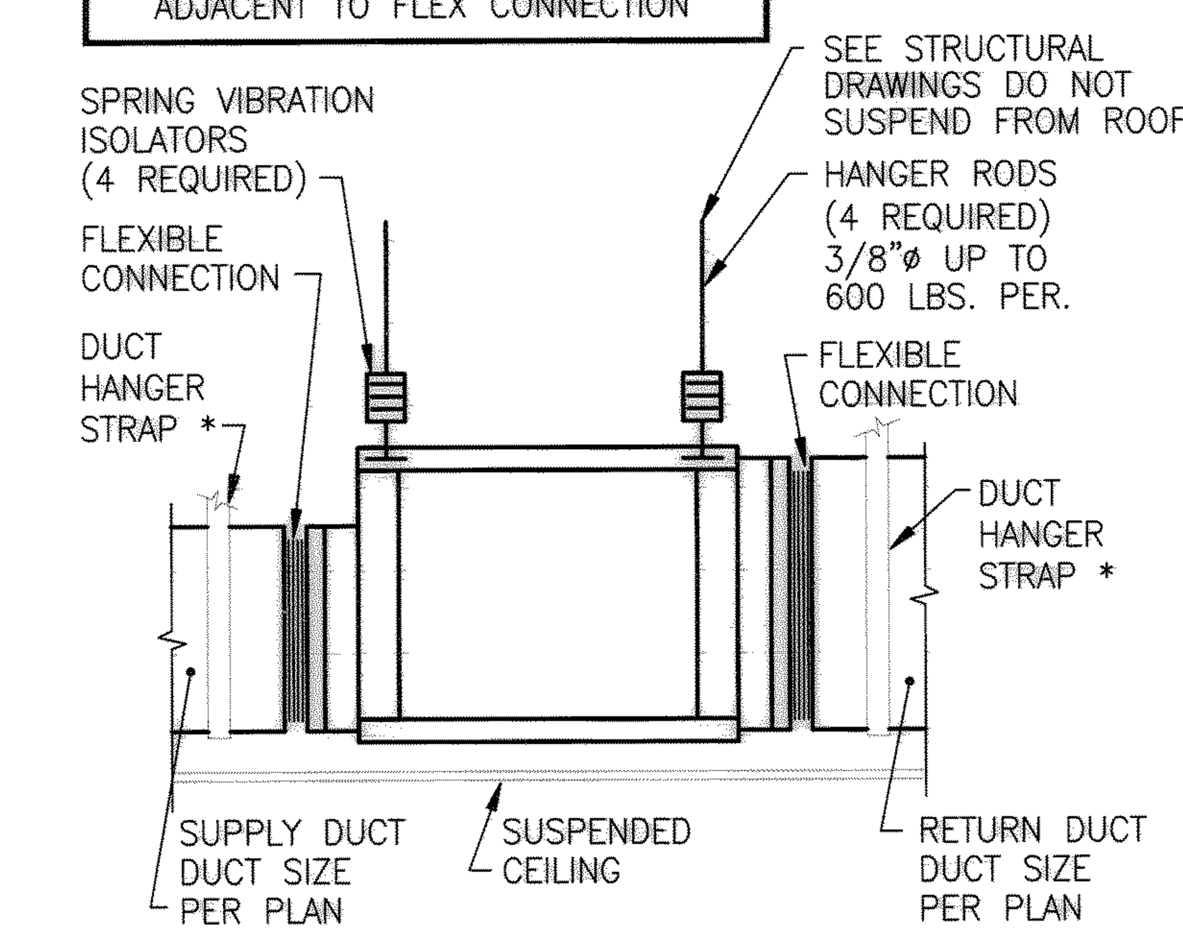
NOT TO SCALE



CEILING MOUNTED EXHAUST FAN INSTALLATION DETAIL

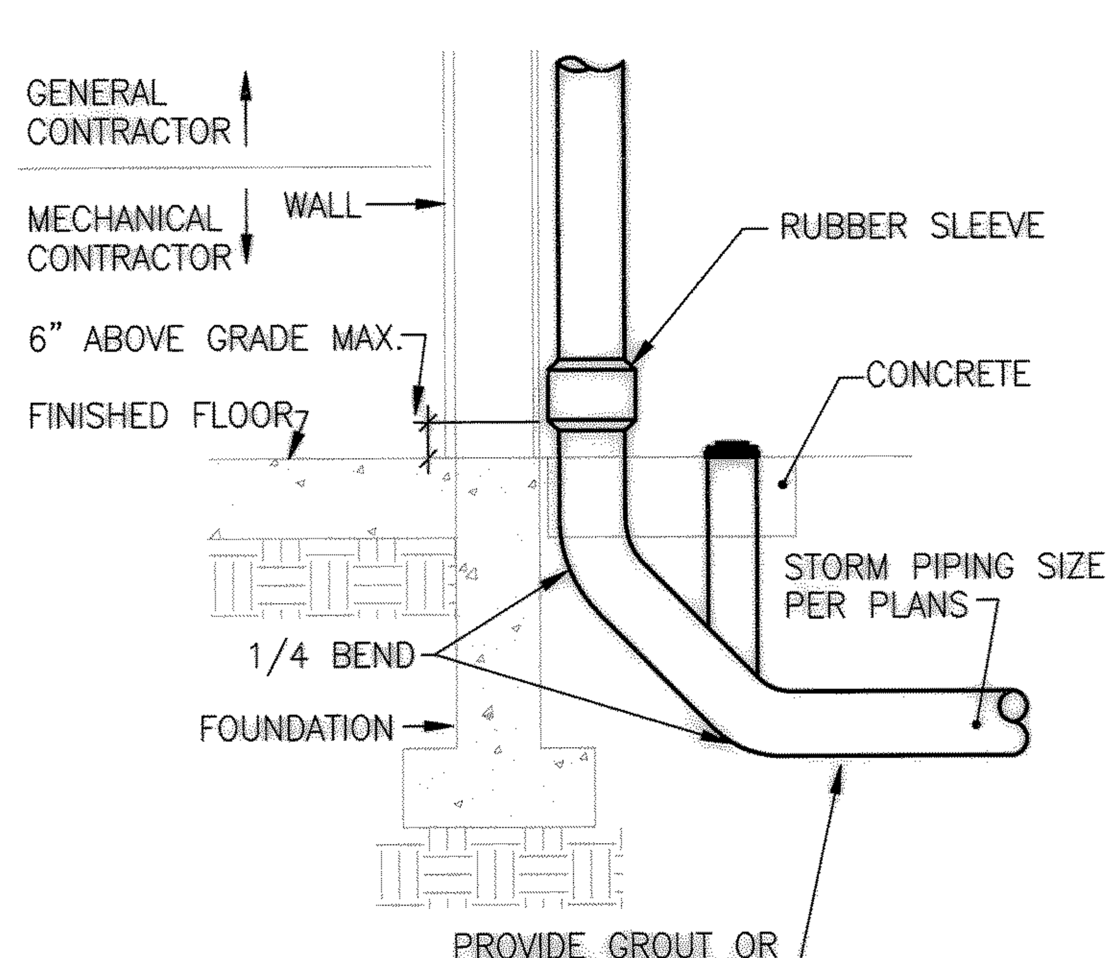
NOT TO SCALE

NOTE:
MAINTAIN ACCESS CLEARANCE ON BOTH SIDES FOR SERVICE OF BLOWER
* INSTALL DUCT HANGER STRAPS ADJACENT TO FLEX CONNECTION



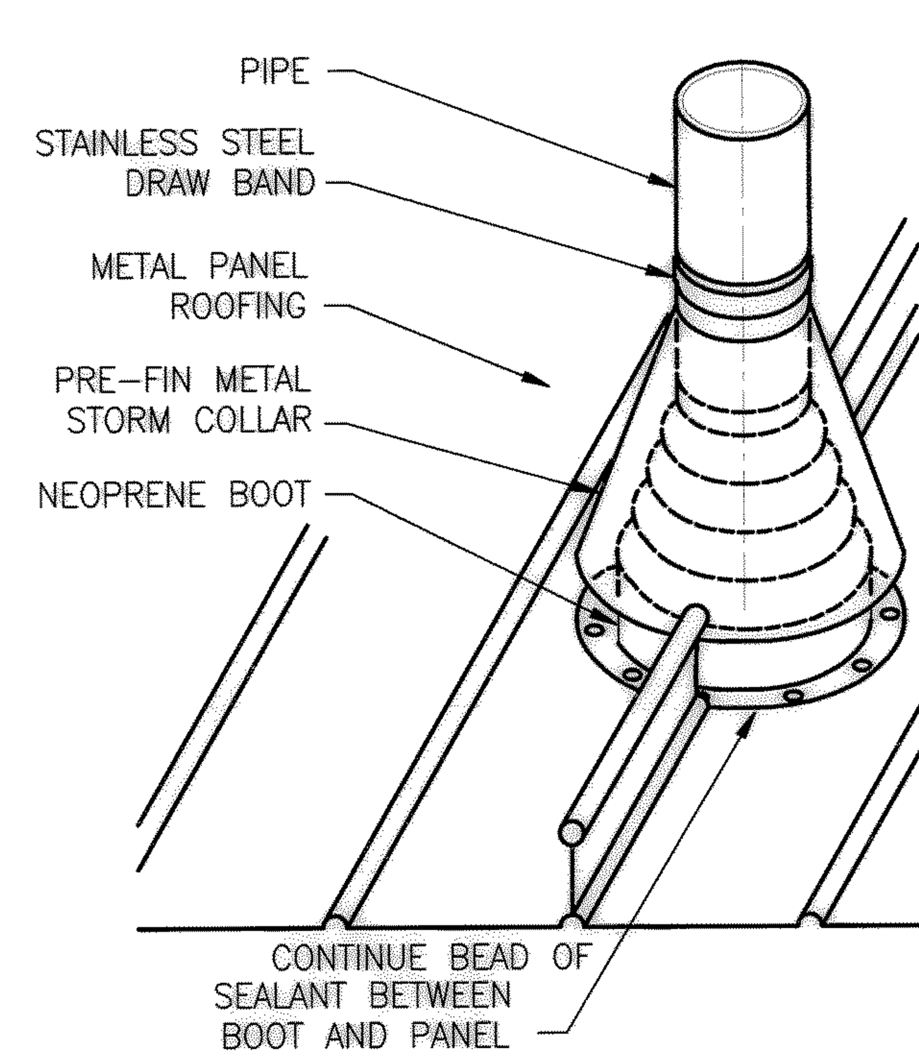
TYPICAL EXHAUST FAN INSTALLATION DETAIL

NO SCALE



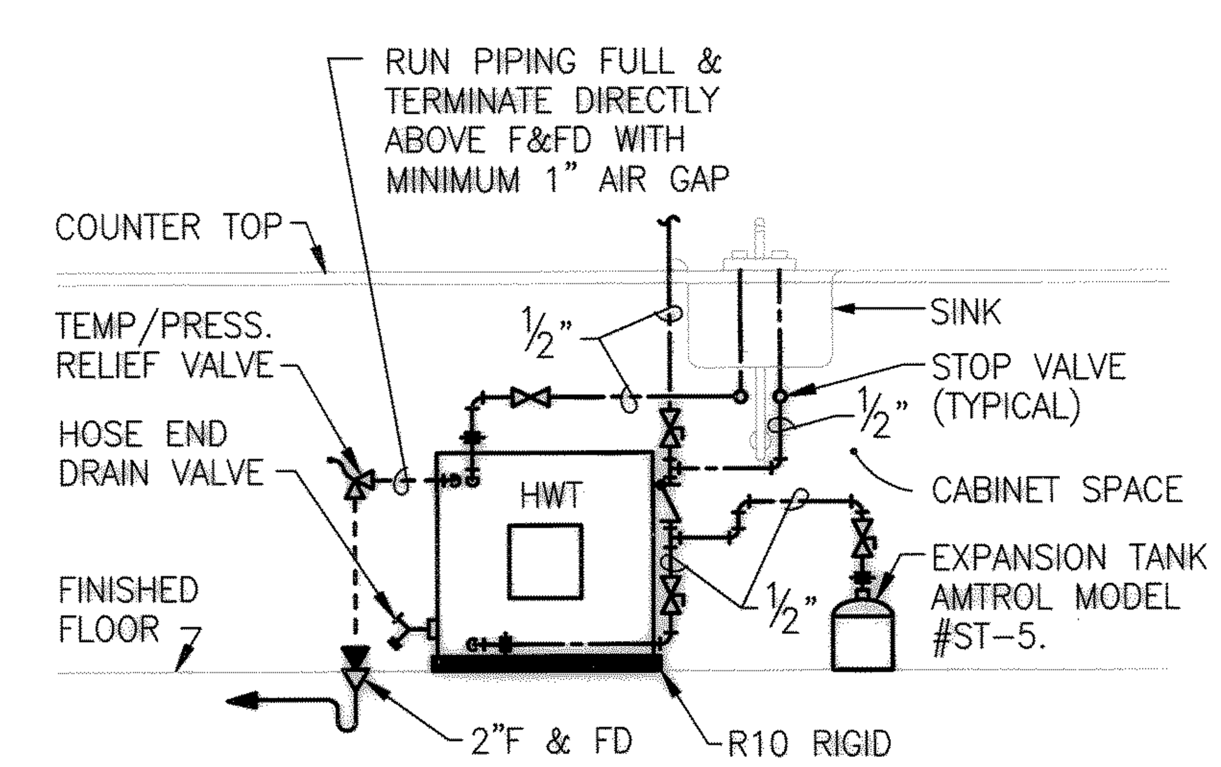
TYPICAL DOWNSPOUT CONNECTION DETAIL

NO SCALE



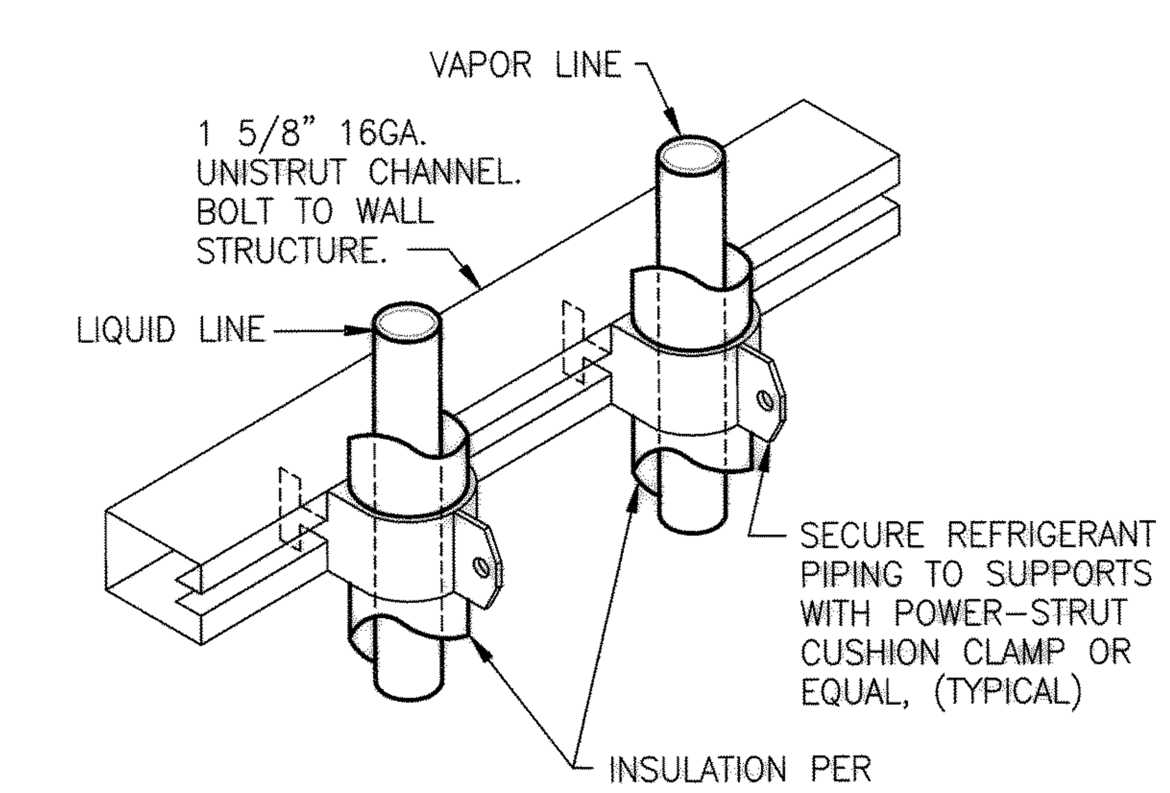
PIPE PENETRATION @ MTL. ROOFING

NOT TO SCALE



UNDER CABINET HOT WATER TANK PIPING DIAGRAM

DIAGRAMMATIC



REFRIGERANT PIPE SUPPORT DETAIL

DIAGRAMMATIC

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SHEET 13 OF 230

CONTRACT NUMBER:
E NUMBER: 998154
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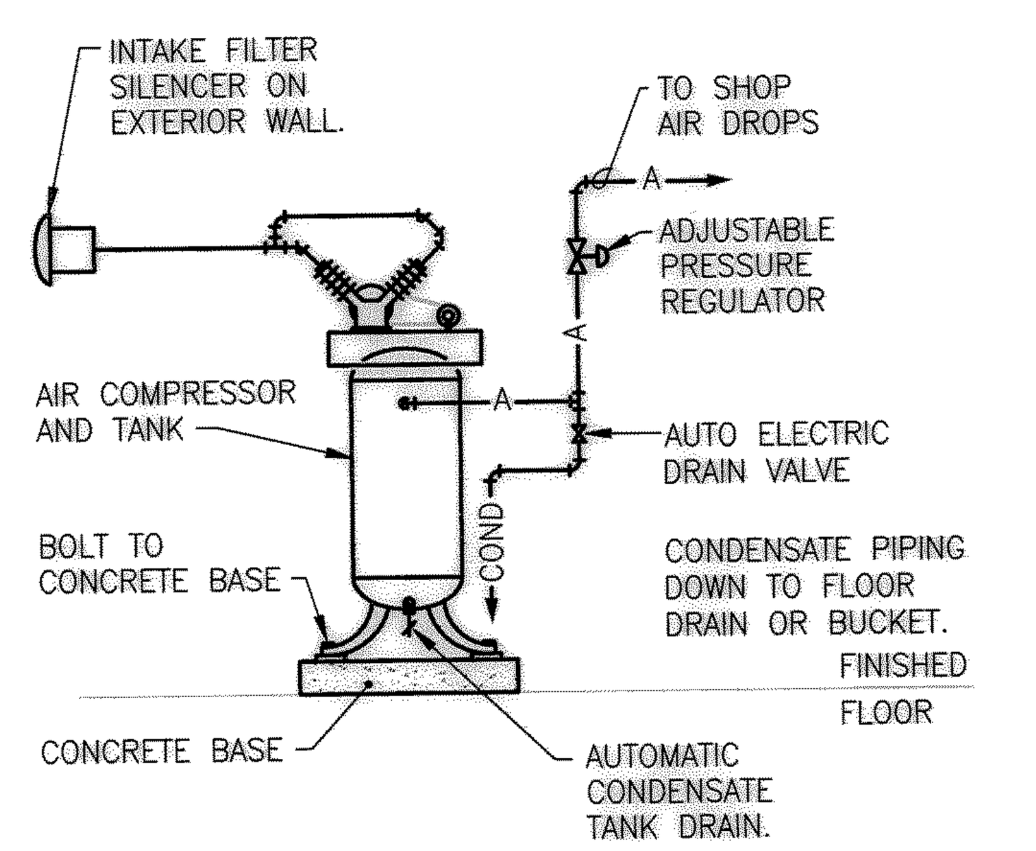
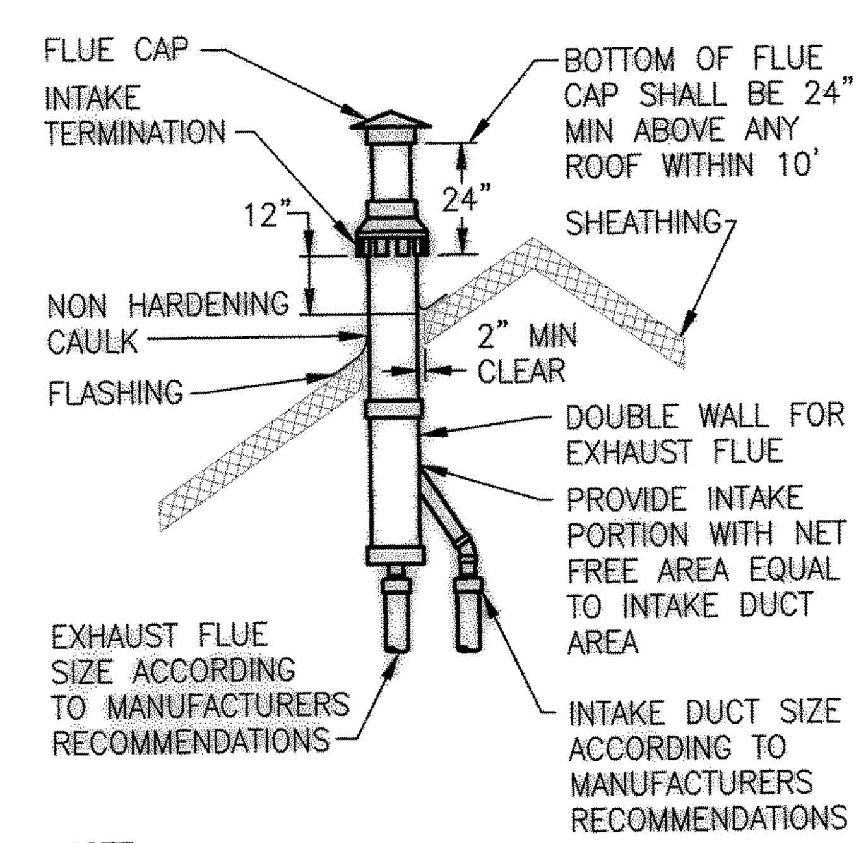


AIR COMPRESSOR PIPING DIAGRAM

DIAGRAMMATIC

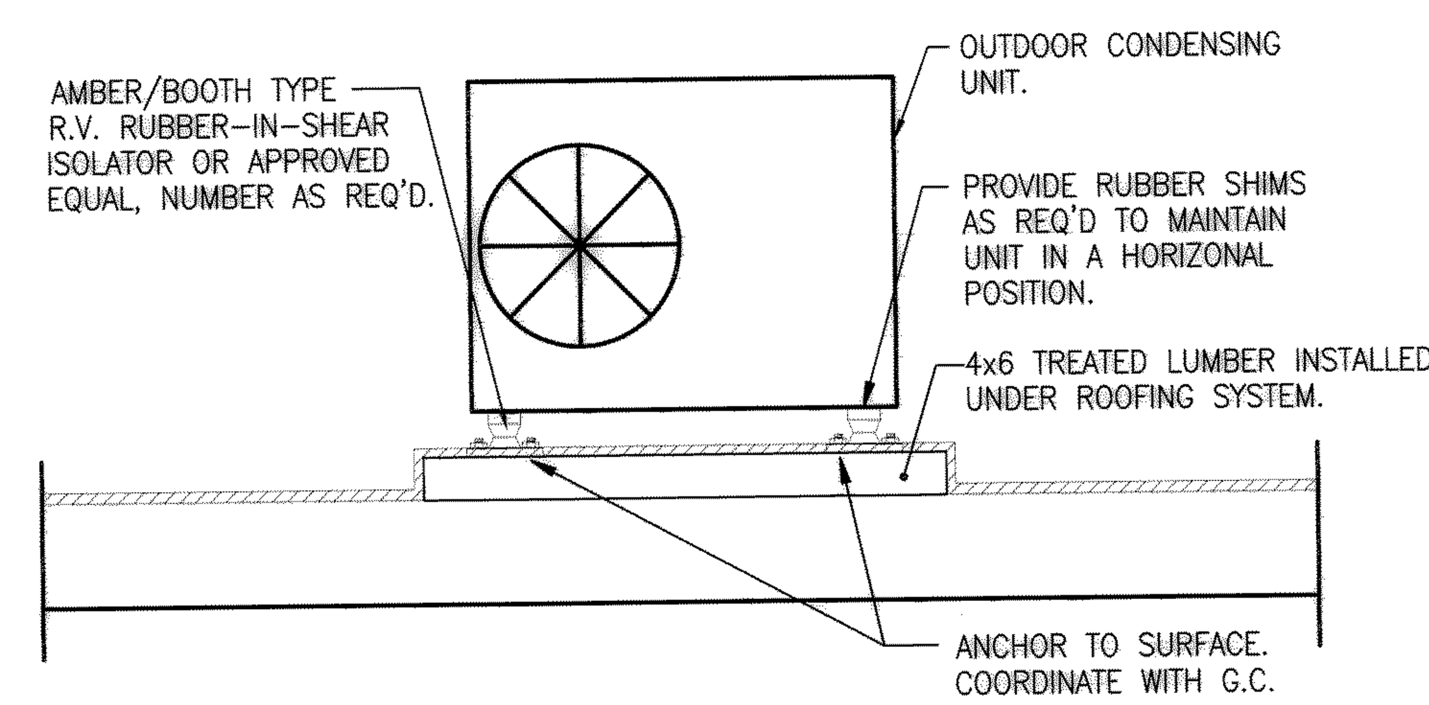


NOTE:

1. VERIFY PITCH OF ROOF AND PROVIDE BLOCKING AND FLASHING AS REQUIRED.
2. COORDINATE EQUIPMENT AND FLUE LOCATION WITH G.C.

CONCENTRIC FLUE ROOF PENETRATION DETAIL

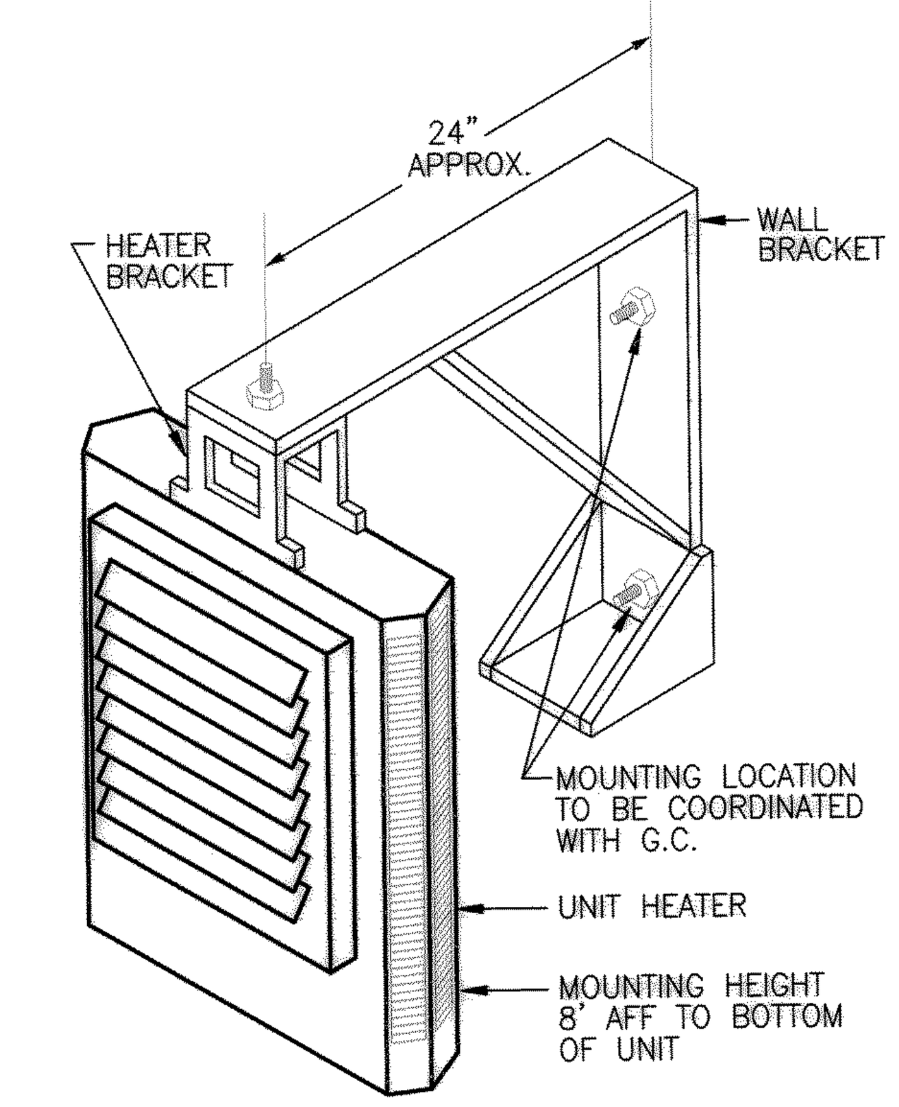
NO SCALE



NOTE:
ALL PENETRATIONS INTO ROOF SHALL BE SEALED WATER TIGHT.

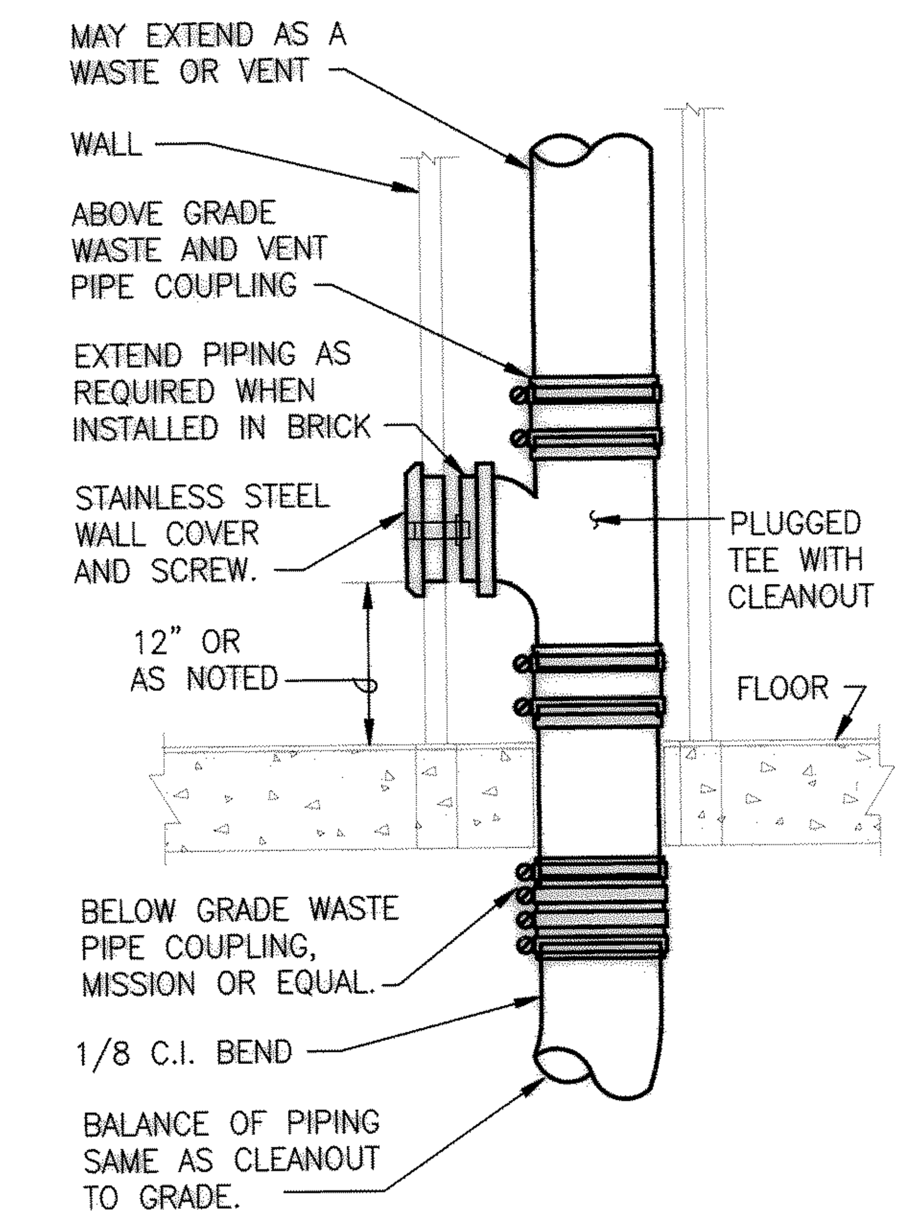
CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE



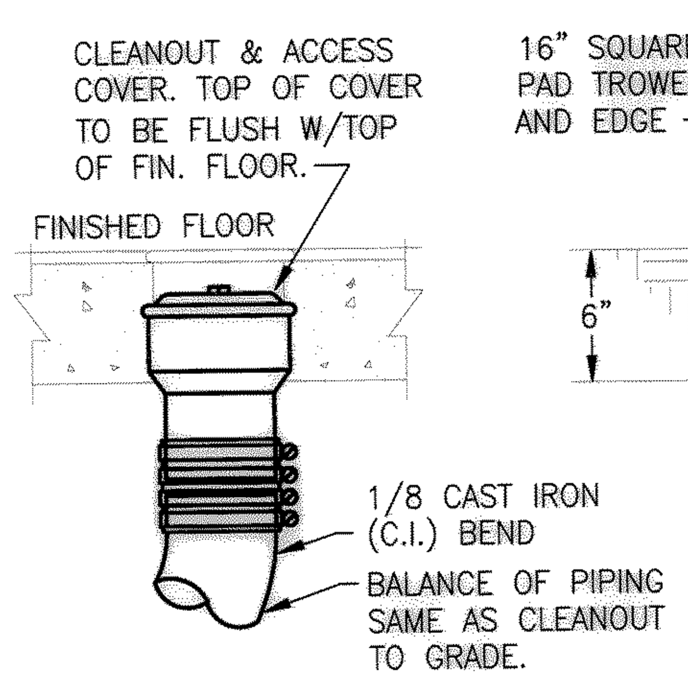
ELECTRIC UNIT HEATER INSTALLATION DETAIL

NOT TO SCALE

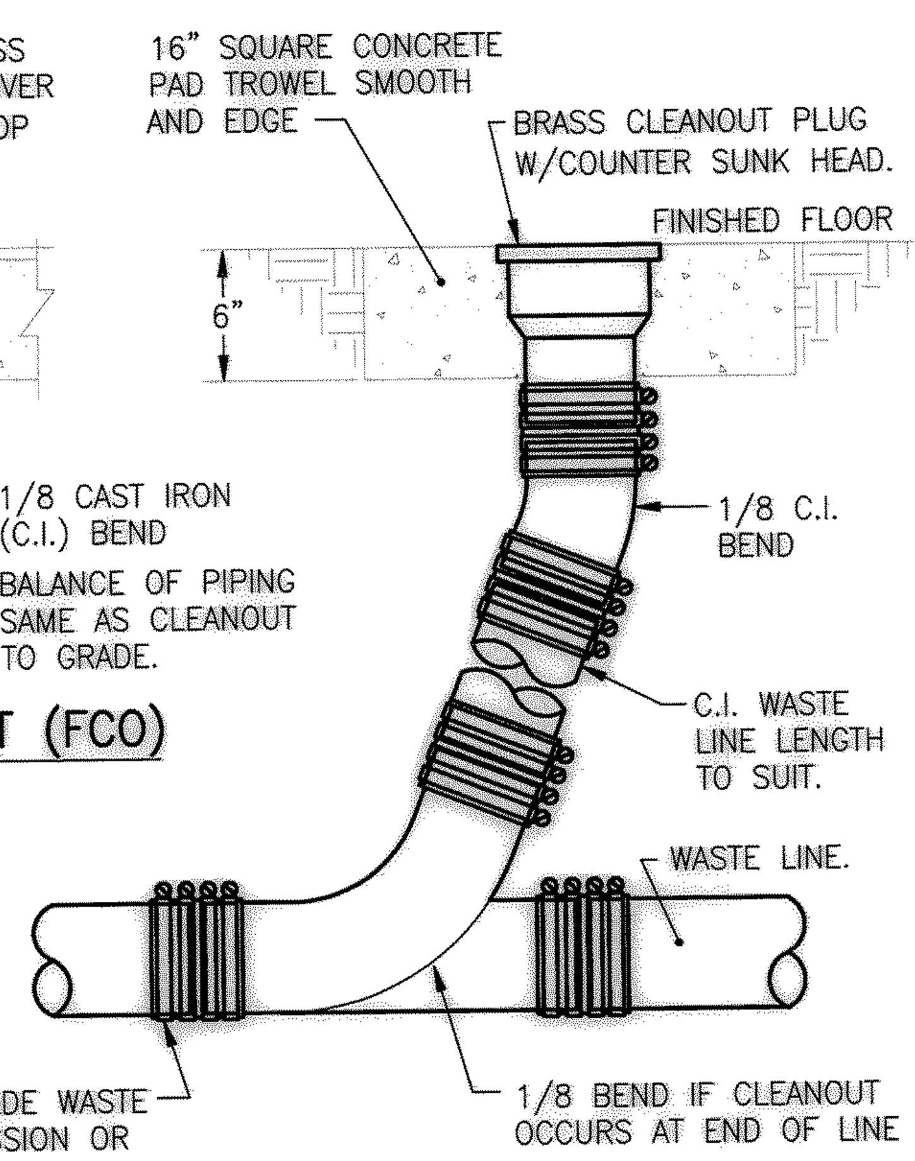


WALL CLEANOUT DETAIL

NO SCALE



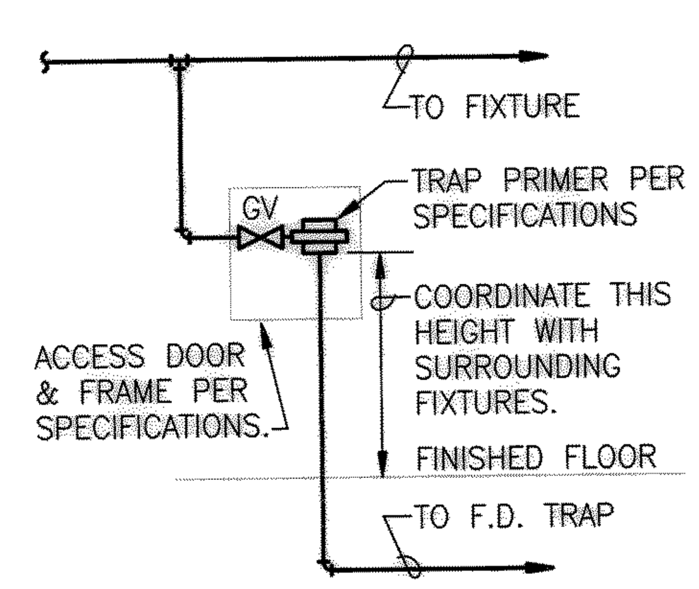
FLOOR CLEANOUT (FCO)



CLEANOUT TO GRADE (SCO)

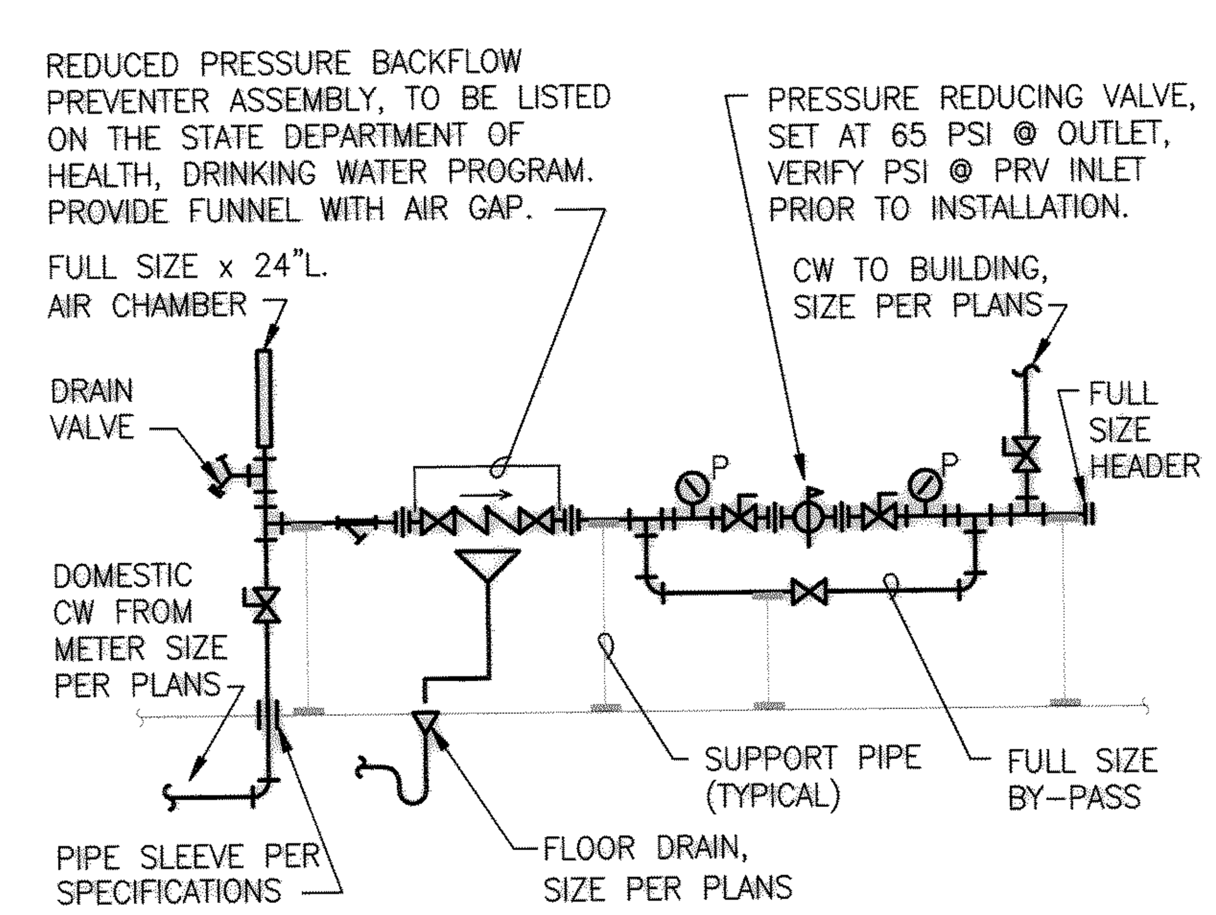
CLEANOUT DETAILS

DIAGRAMMATIC



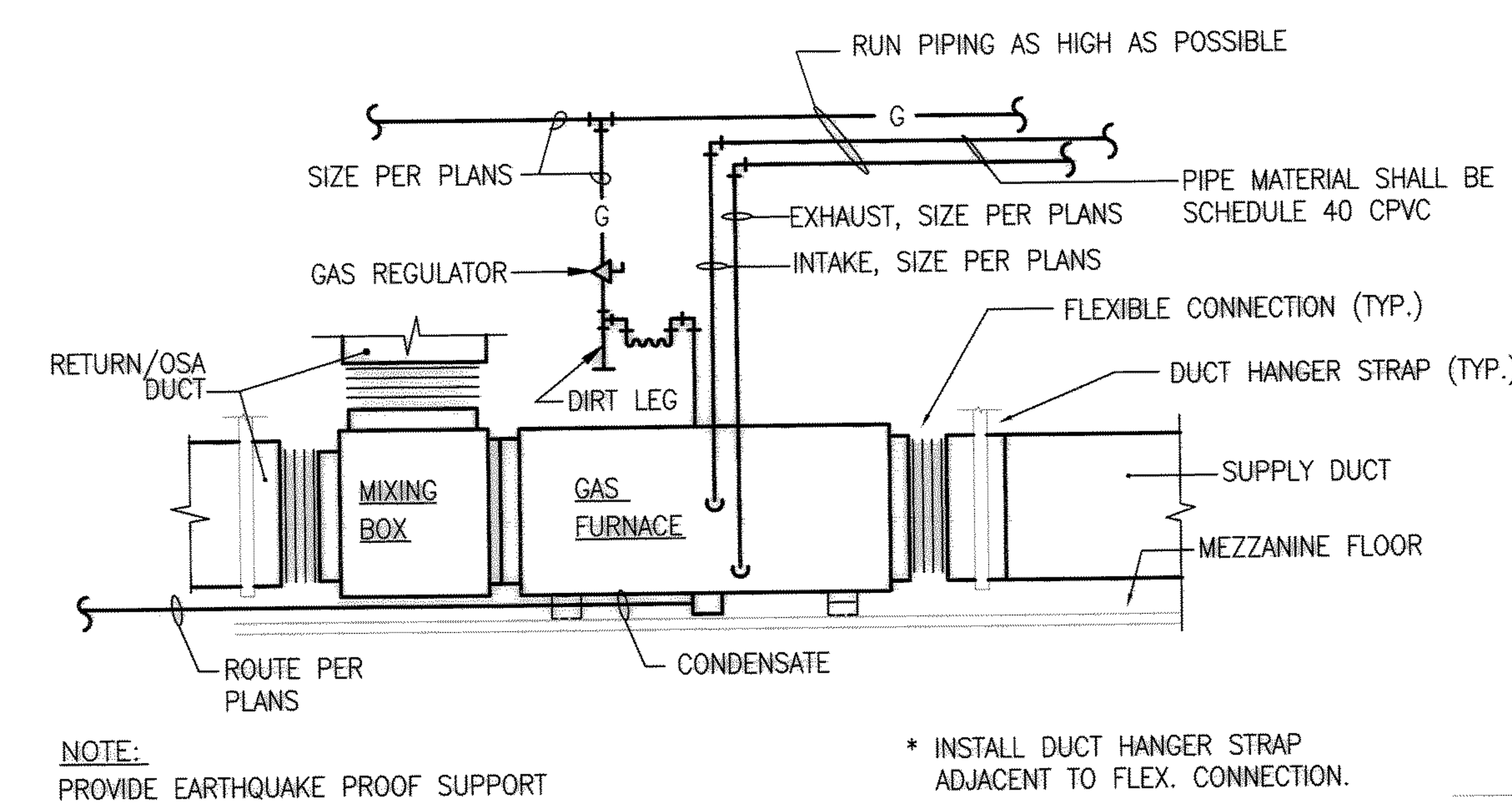
TRAP PRIMER PIPING DIAGRAM

DIAGRAMMATIC



DOMESTIC WATER HEADER DETAIL

NO SCALE



NOTE:
PROVIDE EARTHQUAKE PROOF SUPPORT

* INSTALL DUCT HANGER STRAP ADJACENT TO FLEX. CONNECTION.

GAS FURNACE INSTALLATION DETAIL

NOT TO SCALE

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SHEET 14 OF 230
CONTRACT NUMBER: 998154
E NUMBER: E1974
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BCE
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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED FLUORESCENT LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	WALL MOUNT H.I.D. LIGHT FIXTURE
	WALL MOUNT COMPACT FLUORESCENT LIGHT FIXTURE
	SURFACE OR RECESSED H.I.D. OR COMPACT FLUORESCENT LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	FIXTURE WITH EMERGENCY BATTERY PACK
	EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED)
	WALL MOUNTED EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED)
	EMERGENCY BATTERY PACK WITH TWIN HEAD FLOOD
	RECEPTACLES
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER AT +45")
C	DUPLEX RECEPTACLE (C INDICATES ABOVE COUNTER)
	COMPUTER RECEPTACLE WITH ISOLATED GROUND, DUPLEX OR FOURPLEX AS INDICATED
	FOURPLEX RECEPTACLE
	FLOOR MOUNTED COMBINATION FOURPLEX ISOLATED GROUND RECEPTACLE, DATA & TELEPHONE JUNCTION BOX
	SPECIAL PURPOSE OUTLET – 3ø, VOLTAGE AND AMPERES AS INDICATED
	FIRE ALARM SYSTEM
②	SMOKE DETECTOR WITH BASE (C INDICATES WITH ELEVATOR RECALL CONTACT) (D INDICATES DUCT DETECTOR)
	HEAT DETECTOR – RATE OF RISE AND FIXED TEMPERATURE TYPE(F INDICATES FIXED ONLY) (RC INDICATES RATE COMPENSATION TYPE)(R INDICATES RATE OF RISE ONLY)
F	PULL STATION – MOUNT AT +48" AFF
	COMBINATION HORN/STROBE – MOUNT AT +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER (L INDICATES LOW TAP)
	STROBE ONLY – MOUNT AT +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
FACP	FIRE ALARM CONTROL PANEL
NCA	FIRE ALARM NETWORK CONTROL ANNUNCIATOR PANEL
	REMOTE INDICATOR LAMP, MOUNT AT +96" AFF
(B)	ALARM BELL
(PS)	PRESSURE SWITCH
(TS)	OS&Y TAMPER SWITCH
	COMMUNICATION SYSTEM
F	COMMUNICATION / DATA JUNCTION BOX (4/S BOX WITH SINGLE GANG MUDRING AND COVER PLATE) 3/4"C. TO ACCESSIBLE CEILING SPACE (F INDICATES FOR FIRE ALARM)
	TELEPHONE JUNCTION BOX (4/S BOX AT +48" WITH SINGLE GANG MUDRING AND COVER PLATE) 3/4"C. TO ACCESSIBLE CEILING SPACE OR AS NOTED ON PLAN.
T	TELEPHONE BACKBOARD. SEE DETAIL ON SHEET E1.105

SYMBOL	DESCRIPTION
	MISCELLANEOUS
①	CONSTRUCTION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
	SWITCHES
$	SINGLE POLE SWITCH
$OS	COMBINATION SWITCH / OCCUPANCY SENSOR
$3	THREE WAY SWITCH
ab	MULTI–GANGED SWITCH (LOWER CASE LETTERS INDICATES SWITCHING)
PC	PHOTOCELL CONTROL
TC	TIME CLOCK CONTROL
OS	OCCUPANCY SENSOR (LIGHTING CONTROL)
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB, P = PRIMARY , S = SECONDARY
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX – SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
	MOTOR CONNECTION (D INDICATES FIRE/SMOKE DAMPER)
$M	MANUAL STARTER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION DISCONNECT / MAGNETIC MOTOR STARTER
	277/480 VOLT PANELBOARD
	MAIN DISTRIBUTION BOARD
T	TRANSFORMER
	PUSH–BUTTON CONTROLLER
	ENCLOSED CIRCUIT BREAKER, AMPERES AS INDICATED
HH	HANDHOLE
UPS	UNINTERRUPTABLE POWER SUPPLY
UNIT #	MECHANICAL EQUIPMENT CONNECTION SYMBOL. REFER TO THE MECHANICAL EQUIPMENT CONNECTION SCHEDULES FOR CONNECTION REQUIREMENTS.

SF9	LUMINAIRE ALV 84-232-10%-120-BK	(2) 32W T8	120V 59	SURFACE MOUNT IN STAIRWELL
WF1	COLUMBIA W4-132-EB8120	(1) 32W T8	120V 32	WALL MOUNT ABOVE MIRROR
WF2	COLUMBIA CS4-132-EB8120-CSWG4	(1) 32W T8	120V 32	WALL MOUNT IN ELEVATOR PIT. PROVIDE LAMP GUARD AND WIRE GUARD.
WF3	LUMINIS NT645DL F126 120	(1) 26W PLT	120V 28	WALL MOUNT SO TOP OF FIXTURE IS EVEN WITH TOP OF DOOR FRAME, UNLESS NOTED OTHERWISE. ARCHITECT TO CHOOSE COLOR.
WF4	COLUMBIA W4-132-EB8277	(1) 32W T8	277V 32	WALL MOUNT ABOVE MIRROR
WF5	LUMINIS NT645DL F126 277	(1) 26W PLT	277V 28	WALL MOUNT SO TOP OF FIXTURE IS EVEN WITH TOP OF DOOR FRAME, UNLESS NOTED OTHERWISE. ARCHITECT TO CHOOSE COLOR.
WF6	PACE AGPM -6000-L-PLT32-120-O-TAL-WM/SHK	(1) 32W PLT	120V 37	WALL MOUNT SO BOTTOM OF FIXTURE IS AT HEIGHTS INDICATED ON PLANS. PROVIDE SHEPARDS HOOK
WH1	KIM WD18UG/250MH277/BL-P	(1) 250W MH	277V 300	WALL MOUNT
EM1	PRESCOLITE ET4-277V-NB-ESHLF	(2) 12W PAR 36	277V 60W	EMERGENCY LIGHTS. PROVIDE WITH MOUNTING SHELF MOUNT @ 12' ABOVE FINISHED FLOOR
EX1	PATHWAY XG	INCLUDED	DUAL <5	UNIVERSAL MOUNT, DUAL VOLTAGE EXIT LIGHT FIXTURE.

GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

1. PROVIDE BALLASTS TO ACCOMMODATE DUAL LEVEL SWITCHING FOR ALL 3 AND 4 LAMP FIXTURES.
2. SEE DRAWINGS FOR LOCATIONS AND QUANTITIES OF FIXTURES WITH EMERGENCY BATTERY PACKS.

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	VOLTS / WATTS	MOUNTING & REMARKS
AH1	KIM LTV10/NF/100MH120	(1) 100W MH	120 129	MOUNT IN GRADE AS SHOWN FOR ILLUMINATING FLAG.
AH2	KIM LTV10/SP/175MH120	(1) 175W MH	120 210	MOUNT IN GRADE AS SHOWN FOR ILLUMINATING FLAG.
AH3	GARDCO DF12-NSP-250MH-120-CH	(1) 250W MH	120V 300	MOUNT TO TOP OF CANOPY. MOUNT HOOD TO BOTTOM OF FIXTURE. ARCH. TO CHOOSE COLOR
AH4	GARDCO DF12-NSP-250MH-277-CH	(1) 250W MH	277V 300	MOUNT TO TOP OF CANOPY. MOUNT HOOD TO BOTTOM OF FIXTURE. ARCH. TO CHOOSE COLOR
AF1	PACE AGPM -6000-L-PLT32-277-O-TAL-WM/SHK	(1) 32W PLT	277V 37	CUSTOM MOUNT SHEPARDS HOOK ON 12' POLE. SEE ARCH MOUNTING DETAIL.
PF1	COLUMBIA KL4-232-EB8120	(2) 32W T8	120V 59	4' INDUSTRIAL STRIPLIGHT. PENDANT MOUNT AT 9'-0"
PF2	COLUMBIA KL4-232-EB8277	(2) 32W T8	277V 59	4' INDUSTRIAL STRIPLIGHT. PENDANT MOUNT AT 9'-0" AFF
PF3	ALERA ALS-2T8-20/80-CM-LD-EB8277-MW	(2) 32W T8	277V 59	PENDANT MOUNT AT 9'-0" AFF
PF4	ALERA ALS-3T8-20/80-CM-LD-EB8277-MW-IB/OB	(3) 32W T8	277V 86	PENDANT MOUNT AT 9'-0" AFF
PF5	COLUMBIA KL4-232-EB8120	(2) 32W T8	120V 59	CHAIN HUNG 4' INDUSTRIAL STRIPLIGHT. HANG FROM PLATFORM AT 8'-0" AFF
PH1	HUBBELL CH 32 W 4 M HG16	(1) 320W PS MH	277V 342	PENDANT MOUNT FIXTURE SO BOTTOM OF FIXTURE IS AT HEIGHTS INDICATED ON PLANS
PH2	HUBBELL CH 10 H 4 M HG22	(1) 1000W MH	277V 1080	PENDANT MOUNT FIXTURE SO BOTTOM OF FIXTURE IS AT HEIGHTS INDICATED ON PLANS
RF1	PRESCOLITE CFT832HEB-STF802H	(1) 32W PLT	120V 37	8" CAN RECESSED IN CEILING
RF2	COLUMBIA 4PS 24-232 G-FSA12-EB8120	(2) 32W T8	120V 59	2'x 4' LAY IN TROFFER
RF3	COLUMBIA P424-332 G-LD36-S-3EB8120	(3) 32W T8	120V 86	2'x 4' LAY IN PARABOLIC
RF4	PRESCOLITE CFT632HEB-STF602H	(1) 32W PLT	120V 37	6" CAN RECESSED IN CEILING
RF5	COLUMBIA P424-232 G-LD26-S-EB8120	(2) 32W T8	120V 59	2'x 4' LAY IN PARABOLIC
RF6	COLUMBIA 4PS 24-332 G-FSA12-3EB8120	(3) 32W T8	120V 86	2'x 4' LAY IN TROFFER
RF7	INFINITY PH60-132T-277-EB	(1) 32W PLT	277V 37	6" RECESSED CAN SHOWER FIXTURE. WET LOCATION
RF8	PRESCOLITE CFTD832HEB-STFD802H	(2) 32W PLT	120V 70	8" CAN RECESSED IN CEILING
RF9	PRESCOLITE CFT832HEB-STF802H	(1) 32W PLT	277V 37	8" CAN RECESSED IN CEILING
RF10	COLUMBIA 4PS 24-232 G-FSA12-EB8277	(2) 32W T8	277V 59	2'x 4' LAY IN TROFFER
RF11	COLUMBIA P424-332 G-LD36-S-EB8277	(3) 32W T8	277V 86	2'x 4' LAY IN PARABOLIC
RF12	PRESCOLITE CFT632HEB-STF602H	(1) 32W PLT	277V 37	6" CAN RECESSED IN CEILING
RF13	COLUMBIA P424-232 G-LD26-S-EB8277	(2) 32W T8	277V 59	2'x 4' LAY IN PARABOLIC
RF14	COLUMBIA 4PS 24-332 G-FSA12-3EB8277	(3) 32W T8	277V 86	2'x 4' LAY IN TROFFER
RF15	PRESCOLITE CFTD832HEB-STFD802H	(2) 32W PLT	277V 70	8" CAN RECESSED IN CEILING
SF1	COLUMBIA LU4-232-EB8277	(2) 32W T8	277V 59	SURFACE MOUNT IN LOCKER ROOMS
SF2	COLUMBIA KL4-232-EB8120	(2) 32W T8	120V 59	4' INDUSTRIAL STRIPLIGHT. SURFACE MOUNT.
SF3	LUMINAIRE ALV 84-232-10%-277-BK	(2) 32W T8	277V 59	SURFACE MOUNT IN STAIRWELL
SF4	COLUMBIA CS4-132-EB8120	(1) 32W T8	120V 32	SURFACE MOUNT UNDER STAIRWAY LANDING.
SF5	EXTERIEUR VERT LINEOS X 120V	(1) 28W T5	120V 32	SURFACE MOUNT UNDER EXTERIOR CANOPY. SEE ARCH. MOUNTING DETAIL
SF6	COLUMBIA KL4-232-EB8277	(2) 32W T8	277V 59	4' INDUSTRIAL STRIPLIGHT. PROVIDE CUSTOM UNISTRUT MOUNTING BRACKET. MOUNT AT 9'-6" AFF.
SF7	LUMINAIRE ALV 84-132-10%-277-OP-BK-WET	(1) 32W T8	277V 32	SURFACE MOUNT IN EXTERIOR SOFFIT
SF8	COLUMBIA KL4-232-EB8277	(2) 32W T8	277V 59	4' INDUSTRIAL STRIPLIGHT.

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MARK	REVISION	BY:	APPVD:	DATE:
	RECORD DRAWINGS			

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE:	
PORT ADDRESS:	
PORT PARCEL:	

CHECKED BY – DATE

PROJECT ENGR.– DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
LEGEND AND LIGHTING FIXTURE SCHEDULE

TOWNSHIP:	
DATUM: HORIZ:	RANGE:
DRAWING SCALE: NONE	SECTION:
	VERT:

EP-~~5664-17~~

E1.100

SHEET 15 OF 230

CONTRACT NUMBER: 998184

E NUMBER: E1974

PHASE: RECORD DRAWINGS

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6321-17

FILE NUMBER:LEGEND-SCH-23003.DWG

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE (EXHAUST FANS)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
EF-2A	120/1	263			2H1	4	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-2B	120/1	263			2H1	4	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-2C	120/1	273			2H1	4	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-3A	120/1	273			3P1	2	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-3B	120/1	132			3P1	2	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-3C	120/1	84			3P1	2	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-3D	120/1	75			3P1	2	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-4A	208/1	1831		1	4P1	16,18	1/2"C. (3) #12AWG	E.C.	E.C.	
EF-4B	120/1	263			4P1	23	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5A	460/3	6316		5	5H2	14,16,18	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5B	460/3	6316		5	5H2	14,16,18	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5C	460/3	6316		5	5H2	20,22,24	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5D	460/3	6316		5	5H2	20,22,24	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5E	208/3	2376		1.5	5P3	32,34,36	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5F	208/3	2376		1.5	5P3	32,34,36	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5G	208/3	3816		3	5P3	37,39,41	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5H	208/3	2376		1.5	5P5	24,26,28	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5I	120/1	263			5P3	18	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5J	120/1	1130		1/2	5P3	18	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5K	120/1	84			5P2	7	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5L	208/3	2376		1.5	5P5	25,27,29	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5M	120/1	1130		1/2	5P3	25	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5N	120/1	670		1/4	5P3	24	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5O	208/3	2376		1.5	5P3	38,40,42	1/2"C. (4) #12AWG	E.C.	E.C.	
EF-5P	120/1	147			5P3	24	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-5Q	120/1	372			5P4	27	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-6A	120/1	79			6P4	6	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-6B	120/1	80			6P3	9	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-6C	120/1	79			6P6	19	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-6D	120/1	79			6P7	8	1/2"C. (2) #12AWG	E.C.	E.C.	
EF-6E	120/1	79			6P3	9	1/2"C. (2) #12AWG	E.C.	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (WATER HEATERS)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	MANUAL STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
HWT-2A	208/1	6000	28.8		2H1	6,8	3/4"C. (3) #8AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT
HWT-3A	208/3	6000			3P1	24,26,28	3/4"C. (4) #10AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT
HWT-4A	208/1	6000			4P1	20,22	3/4"C. (3) #8AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT
HWT-5A	120/1	1200	10		5P3	21	1/2"C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT
HWT-5B	120/1	1200	10		5P3	23	1/2"C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT
HWT-5C	120/1	1200	10		5P5	22	1/2"C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT
HWT-5D	208/1	6000			5P3	20,22	3/4"C. (3) #8AWG	M.C.	E.C.	
HWT-6A	120/1	1300			6P4	4	1/2"C. (2) #12AWG		E.C.	
HWT-6C	120/1	1300			6P6	17	1/2"C. (2) #12AWG		E.C.	
HWT-6D	120/1	1300			6P7	6	1/2"C. (2) #12AWG		E.C.	
HWT-6E	120/1	1300			6P3	9	1/2"C. (2) #12AWG		E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (INDOOR UNIT SPLIT SYSTEM)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
DC-2A	208/1		0.56		2L1	40,42	1/2" C. (2) #12AWG	MFR	E.C.	
DC-2B	208/1		0.56		2L1	40,42	1/2" C. (2) #12AWG	MFR	E.C.	
DC-2C	208/1		0.34		2L1	40,42	1/2" C. (2) #12AWG	MFR	E.C.	
DC-2D	208/1		0.34		2P1	32,34	1/2" C. (2) #12AWG	MFR	E.C.	
HP-3A	208/3	37.26	112	1 1/2	3P1	6,8,10	2" C. (4) 1/0	MFR	E.C.	
HP-3B	208/3	11.4	36	1/2	3P1	12,14,16	3/4"C. (4)#8AWG	MFR	E.C.	
HP-3C	208/3	11.4	34	1/2	3P1	18,20,22	3/4"C. (4) #8AWG	MFR	E.C.	
HP-4A	208/1	3	17		4P1	28,30,32	1/2" C. (3) #12AWG	MFR	E.C.	
HP-6A	208/1	3	17.1	1/8	6P4	12,14	1/2" C. (3) #10AWG	MFR	E.C.	
HP-6B	208/1	3	17.1	1/8	6P6	25,27	1/2" C. (3) #10AWG	MFR	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (WATER RECYCLE SYSTEM)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
WRS-6A	208/1	4992	30		6P2	7,9	1/2"C. (3) #10AWG			
WRS-6B	208/1	4992	30		6P1	7,9	1/2"C. (3) #10AWG			
WRS-6C	208/1	4992	30		6P1	11,13	1/2"C. (3) #10AWG			

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (RADIANT HEATER)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
RH-4A	120/1	720			4P1	15	1/2"C. (2) #12AWG			
RH-4B	120/1	720			4P1	15	1/2"C. (2) #12AWG			
RH-4C	120/1	720			4P1	17	1/2"C. (2) #12AWG			
RH-4D	120/1	720			4P1	17	1/2"C. (2) #12AWG			
RH-4E	120/1	720			4P1	19	1/2"C. (2) #12AWG			
RH-5A	120/1	720			5P3	11	1/2"C. (2) #12AWG			
RH-5B	120/1	720			5P3	11	1/2"C. (2) #12AWG			
RH-5C	120/1	720			5P3	14	1/2"C. (2) #12AWG			
RH-5D	120/1	720			5P3	12	1/2"C. (2) #12AWG			
RH-5E	120/1	720			5P3	12	1/2"C. (2) #12AWG			
RH-5F	120/1	720			5P3	16	1/2"C. (2) #12AWG			
RH-5G	120/1	720			5P3	16	1/2"C. (2) #12AWG			
RH-5H	120/1	720			5P3	9	1/2"C. (2) #12AWG			
RH-5I	120/1	720			5P3	9	1/2"C. (2) #12AWG			
RH-5J	120/1	720			5P3	10	1/2"C. (2) #12AWG			
RH-5K	120/1	720			5P3	10	1/2"C. (2) #12AWG			
RH-5L	120/1	720			5P3	15	1/2"C. (2) #12AWG			
RH-5M	120/1	720			5P3	13	1/2"C. (2) #12AWG			
RH-5N	120/1	720			5P3	13	1/2"C. (2) #12AWG			
RH-5R	120/1	720			5P4	26	1/2"C. (2) #12AWG			
RH-5S	120/1	720			5P4	26	1/2"C. (2) #12AWG			
RH-5T	120/1	720			5P4	34	1/2"C. (2) #12AWG			
RH-5U	120/1	720			5P4	28	1/2"C. (2) #12AWG			
RH-5V	120/1	720			5P4	28	1/2"C. (2) #12AWG			
RH-5W	120/1	720			5P4	30	1/2"C. (2) #12AWG			
RH-5X	120/1	720			5P4	30	1/2"C. (2) #12AWG			
RH-5Y	120/1	720			5P4	32	1/2"C. (2) #12AWG			
RH-5Z	120/1	720			5P4	32	1/2"C. (2) #12AWG			

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (VAV BOXES)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
101	208/3	7.5	27	1/4	2H1	1,3,5	3/4"C. (4) #8AWG	MFR	E.C.	
102	208/3	7	26.6	1/3	2H1	7,9,11	3/4"C. (4) #10AWG	MFR	E.C.	
103	208/3	4	14.8	1/4	2H1	13,15,17	1/2"C. (4) #12AWG	MFR	E.C.	
104	208/1	4.5	18	1/4	2H1	10,12	1/2"C. (3) #10AWG	MFR	E.C.	
201	208/3	4.5	18.5	1/4	2H1	19,21,23	3/4"C. (4) #10AWG	MFR	E.C.	
202	208/3	3	13.3	1/4	2H1	25,27,29	1/2"C. (4) #12AWG	MFR	E.C.	
203	208/3	7	25.5	1/3	2H1	31,33,35	3/4"C. (4) #10AWG	MFR	E.C.	
204	208/3	5	19.7	1/3	2H1	37,39,41	3/4"C. (4) #10AWG	MFR	E.C.	
301	208/3	4.5	18.5	1/4	2H1	18,20,22	3/4"C. (4) #10AWG	MFR	E.C.	
302	208/1	1	17	1/10	2H1	14,16	1/2"C. (3) #10AWG	MFR	E.C.	
303	208/3	8	30.1	1/3	2H1	24,26,28	3/4"C. (4) #8AWG	MFR	E.C.	
304	208/3	4.5	21.1	1/3	2H1	30,32,34	3/4"C. (4) #10AWG	MFR	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (UNIT HEATERS)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	MANUAL STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
UH-4A	120/1	60		1/50	4P1	23	1/2"C. (2) #12AWG		E.C.	
UH-5A	208/3	3300			5P3	26,28,30	1/2"C. (4) #12AWG		E.C.	
UH-5B	208/3	3300			5P5	31,33,35	1/2"C. (4) #12AWG		E.C.	
UH-6A	120/1	60		1/50	6P1	5	1/2"C. (2) #12AWG		E.C.	
UH-6B	120/1	60		1/50	6P2	5	1/2"C. (2) #12AWG		E.C.	
F-4A	120/1	830	12	1/3	4P1	21	1/2"C. (2) #12AWG	MFR	E.C.	
F-5A	120/1	830	12	1/3	5P4	29	1/2"C. (2) #12AWG	MFR	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (HOT WATER WASH SYSTEM)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
HW-6A	480/3	17.5	42.7	15	6H1	1,3,5	1" C. (4) #6AWG	MFR	E.C.	
HW-6B	480/3	17.5	42.7	15	6H2	1,3,5	1" C. (4) #6AWG	MFR	E.C.	
HW-6C	480/3	17.5	42.7	15	6H2	2,4,6	1" C. (4) #6AWG	MFR	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (ELECTRIC WALL HEATERS)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
EWH-2A	208/1	1125			2P1	29,31	1/2"C. (3) #12AWG		E.C.	
EWH-2B	208/1	1125			2P1	29,31	1/2"C. (3) #12AWG		E.C.	
EWH-3A	208/1	1125			3P2	20,22	1/2"C. (3) #12AWG		E.C.	
EWH-5A	208/1	2000			5P3	17,19	1/2"C. (3) #12AWG		E.C.	
EWH-5C	208/1	1250			5P5	17,19	1/2"C. (3) #12AWG		E.C.	
EWH-6A	120/1	1250			6P4	6	1/2"C. (2) #12AWG		E.C.	
EWH-6B	120/1	1250			6P7	4	1/2"C. (2) #12AWG		E.C.	
EWH-6C	120/1	1250			6P6	19	1/2"C. (2) #12AWG		E.C.	
EWH-6D	120/1	1250			6P7	8	1/2"C. (2) #12AWG		E.C.	
EWH-6E	120/1	1250			6P3	11	1/2"C. (2) #12AWG		E.C.	
EWH-6F	208/1	1500			6P3	4,6	1/2"C. (3) #12AWG		E.C.	
EWH-6G	120/1	1500			6P3	13	1/2"C. (2) #12AWG		E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (CONDENSING UNITS)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
CU-2A	208/1		10.3		2L1	31,33	1/2" C. (3) #12AWG	MFR	E.C.	
CU-2B	208/1		10.3		2L1	35,37	1/2" C. (3) #12AWG	MFR	E.C.	
CU-2C	208/1		7.4		2L1	39,41	1/2" C. (3) #12AWG	MFR	E.C.	
CU-2D	208/1		7.4		2P1	28,30	1/2" C. (3) #12AWG	MFR	E.C.	
CU-3A	208/3		37.1		3P1	37,39,41	1-1/4" C. (4) #4AWG	MFR	E.C.	
CU-3B	208/3		25		3P1	30,32,34	3/4" C. (4) #10AWG	MFR	E.C.	
CU-3C	208/3		25		3P1	36,38,40	3/4" C. (4) #10AWG	MFR	E.C.	
CU-4A	208/1		7.4		4P1	24,26	1/2" C. (3) #12AWG	MFR	E.C.	
CU-6A	208/1		10.3		6P4	8,10	1/2" C. (3) #12AWG	MFR	E.C.	
CU-6B	208/1		10.3		6P6	21,23	1/2" C. (3) #12AWG	MFR	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (PUMPS)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	MANUAL STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
CP-2A	115/1		2	1/6	2H1	2	1/2" C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT.
CP-3A	115/1		1.62	1/6	3P1	4	1/2" C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT.
CP-5A	120/1		2	1/6	5P2	19	1/2" C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT.
CP-5B	120/1		2	1/6	5P5	32	1/2" C. (2) #12AWG	E.C.	E.C.	PROVIDE CONNECTION TO AQUASTAT.
P-6A	208/1	1130	8	1/2	6P1	8,10	1/2" C. (3) #12AWG	E.C.	E.C.	
P-6B	208/1	1130	8	1/2	6P2	8,10	1/2" C. (3) #12AWG	E.C.	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (ROOF PACKAGED UNITS)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
RPU-1	208/3	10	211.6		MDB	1,3,5	3" C. (4) 350MCM	MFR	E.C.	PROVIDE DUCT SMOKE DETECTOR
RPU-5A	460/3		27.4	2	5H2	31,33,35	3/4"C. (4) #8AWG	MFR	E.C.	PROVIDE DUCT SMOKE DETECTOR
RPU-5B	460/3		32.2	5	5H2	26,28,30	3/4"C. (4) #8AWG	MFR	E.C.	PROVIDE DUCT SMOKE DETECTOR
RPU-5C	460/3		27.4	2	5H2	25,27,29	3/4"C. (4) #8AWG	MFR	E.C.	PROVIDE DUCT SMOKE DETECTOR

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (AIR COMPRESSOR)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
AC-4A	480/3	17.4		15	4H1	26,28,30	1/2"C. (4) #10AWG	MFR	E.C.	
AC-4B	480/3	17.4		15	4H1	23,34,36	1/2"C. (4) #10AWG	MFR	E.C.	
AC-5A	480/3	38.5		30	5H1	30,32,34	1"C. (4) #6AWG	MFR	E.C.	
AC-5B	480/3	38.5		30	5H1	36,38,40	1"C. (4) #6AWG	MFR	E.C.	
AC-6A	208/3	6.3		5	6P3	8,10,12	3/4"C. (4) #10AWG	MFR	E.C.	
AC-6B	120/1	1.8		1	6P1	12,14	3/4"C. (2) #10AWG	MFR	E.C.	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (MAKE-UP AIR HANDLING UNIT)

EQUIP.	VOLT/PH	LOAD KVA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
MUA-5A	460/3	17.5		15	5H2	19,21,23	3/4"C. (4) #10AWG	MFR	E.C.	
MUA-5B	460/3	17.5		15	5H2	13,15,17	3/4"C. (4) #10AWG	MFR	E.C.	
MUA-5C	460/3	6.3		5	5H6	13,15,17	1/2"C. (4) #12AWG	MFR	E.C.	

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MARK	REVISION	BY:	APPROVED	DATE:
	RECORD DRAWINGS			

APPROVED

CHIEF ENGINEER – DATE

CHECKED BY – DATE

PROJECT ENGR. – DATE

DRAWING DATE:
ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MECHANICAL EQUIPMENT
CONNECTION SCHEDULES

TOWNSHIP:
DATUM: HORZ: RANGE: SECTION:
DRAWING SCALE: NONE VERT:

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS

EP-~~5551-17~~

E1.101

SHEET 16 OF 230

BCE ENGINEERS, INC.
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6321-17

FILE NUMBER:MECH-SCH-23003.DWG

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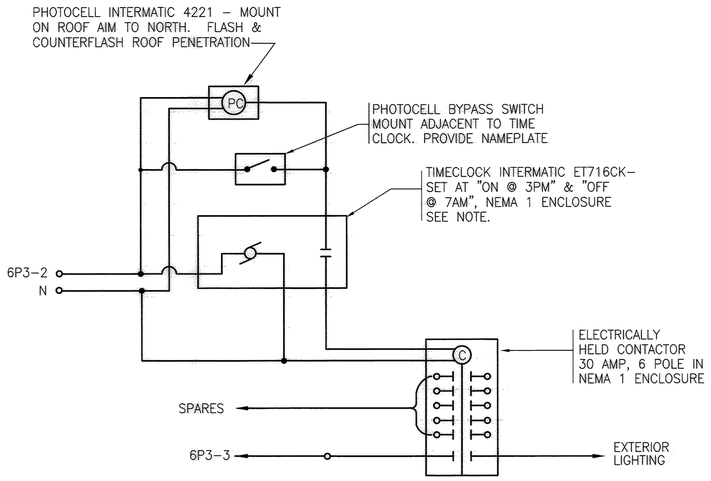
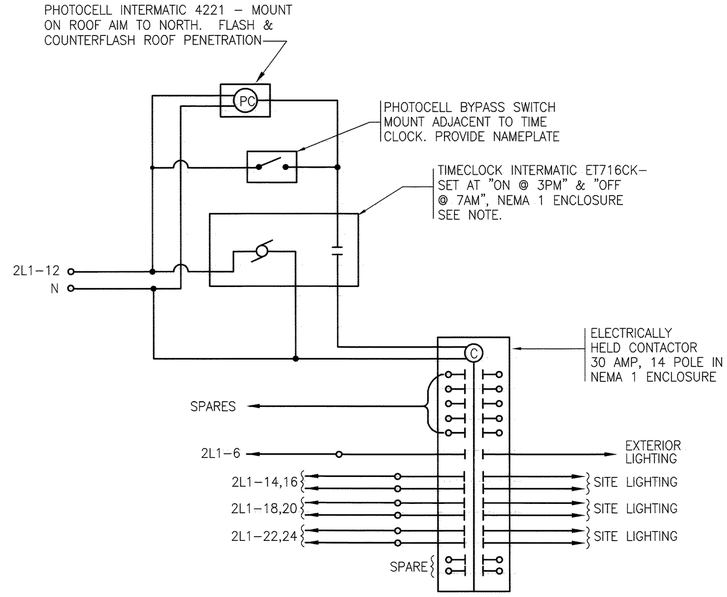


ROADABILITY CANOPY & BUILDING

NOT TO SCALE



ADMINISTRATION BUILDING

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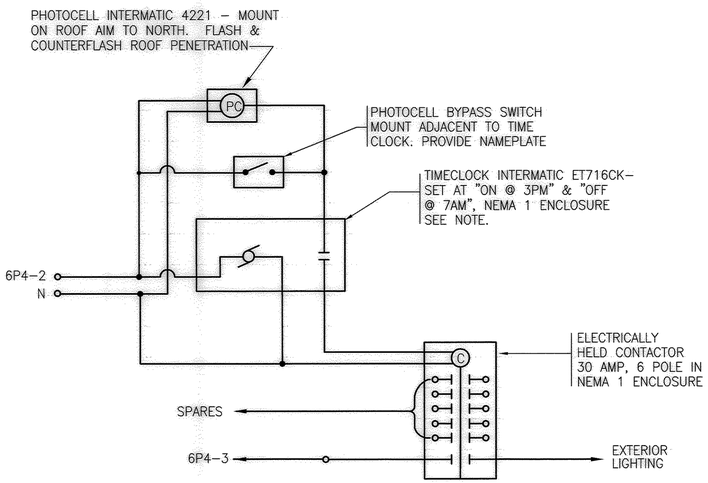

MAIN GATE SHACK #1

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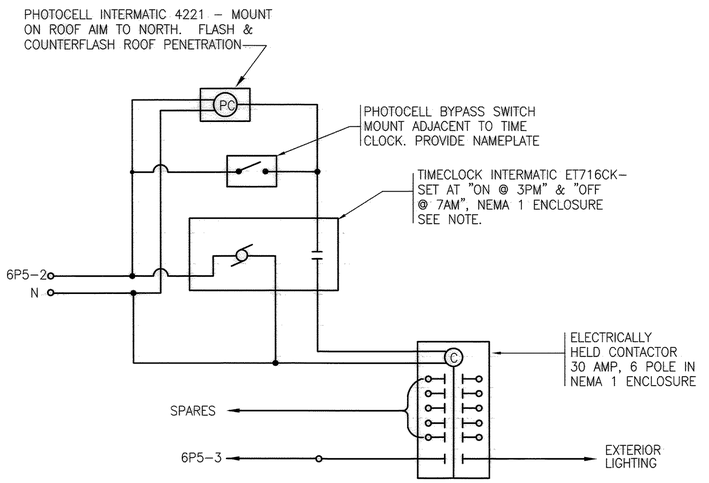

MAIN GATE SHACK #2

NOT TO SCALE

GENERAL NOTE

1. DEPENDING ON TIMECLOCK SETTINGS AND POSITION OF BYPASS SWITCH, LIGHTING MAY BE CONTROLLED DIRECTLY BY PHOTOCELL, TIMECLOCK, OR "ON" BY PHOTOCELL, "OFF" BY TIMECLOCK.

FILE NUMBER:DETAILS–23003.DWG

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253-383-5841

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MARK	REVISION	BY:	APPVD:	DATE:
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CHECKED BY – DATE

PROJECT ENGR.– DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
LIGHTING CONTROL DIAGRAMS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: NONE

CONTRACT NUMBER: 998154
PHASE: RECORD DRAWINGS

EP-~~6661-17~~

E1.102

SHEET 17 OF 230

BCE ENGINEERS, INC.
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T A C O M A , W A 9 8 4 2 4
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6321-17

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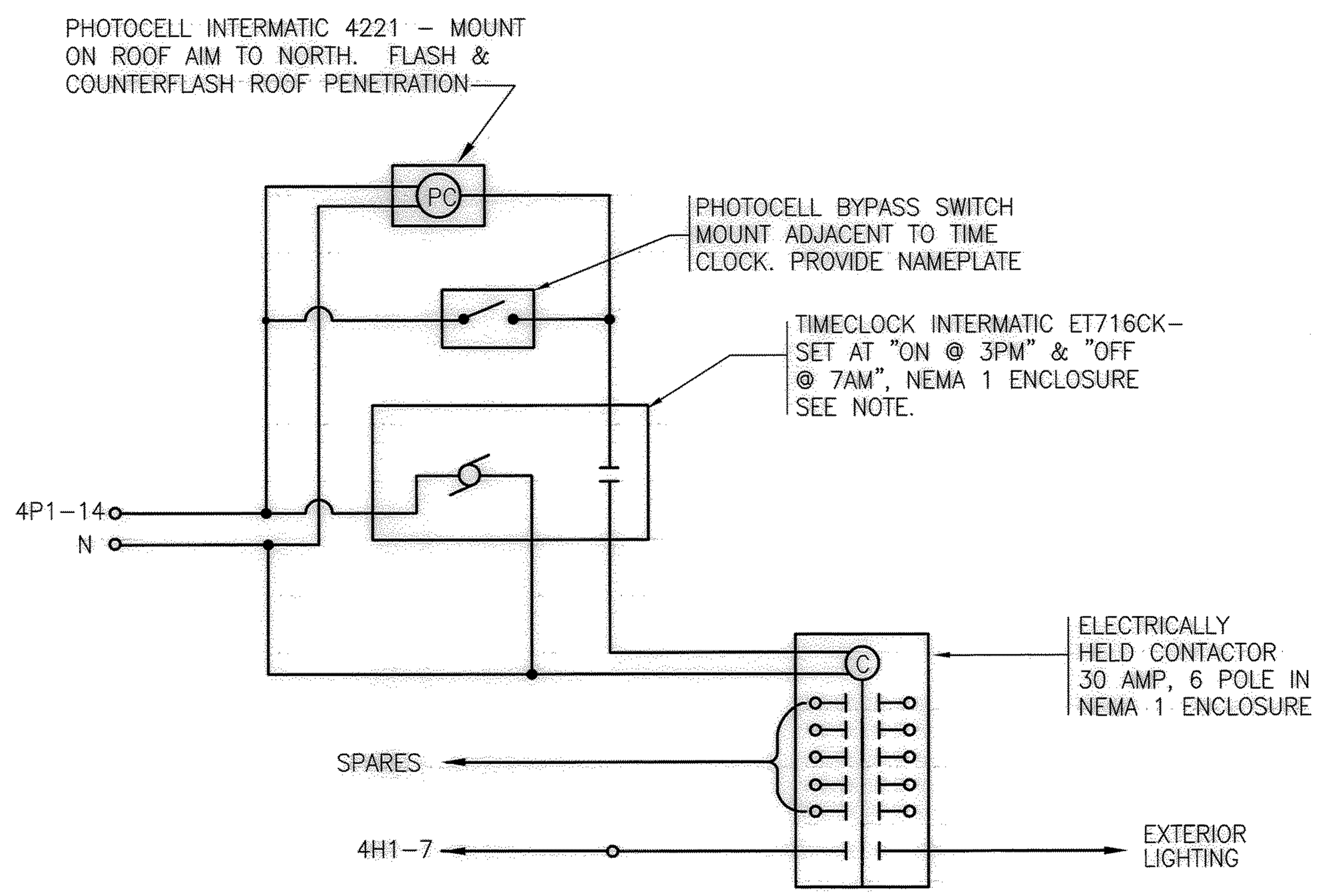

GENERATOR SHOP

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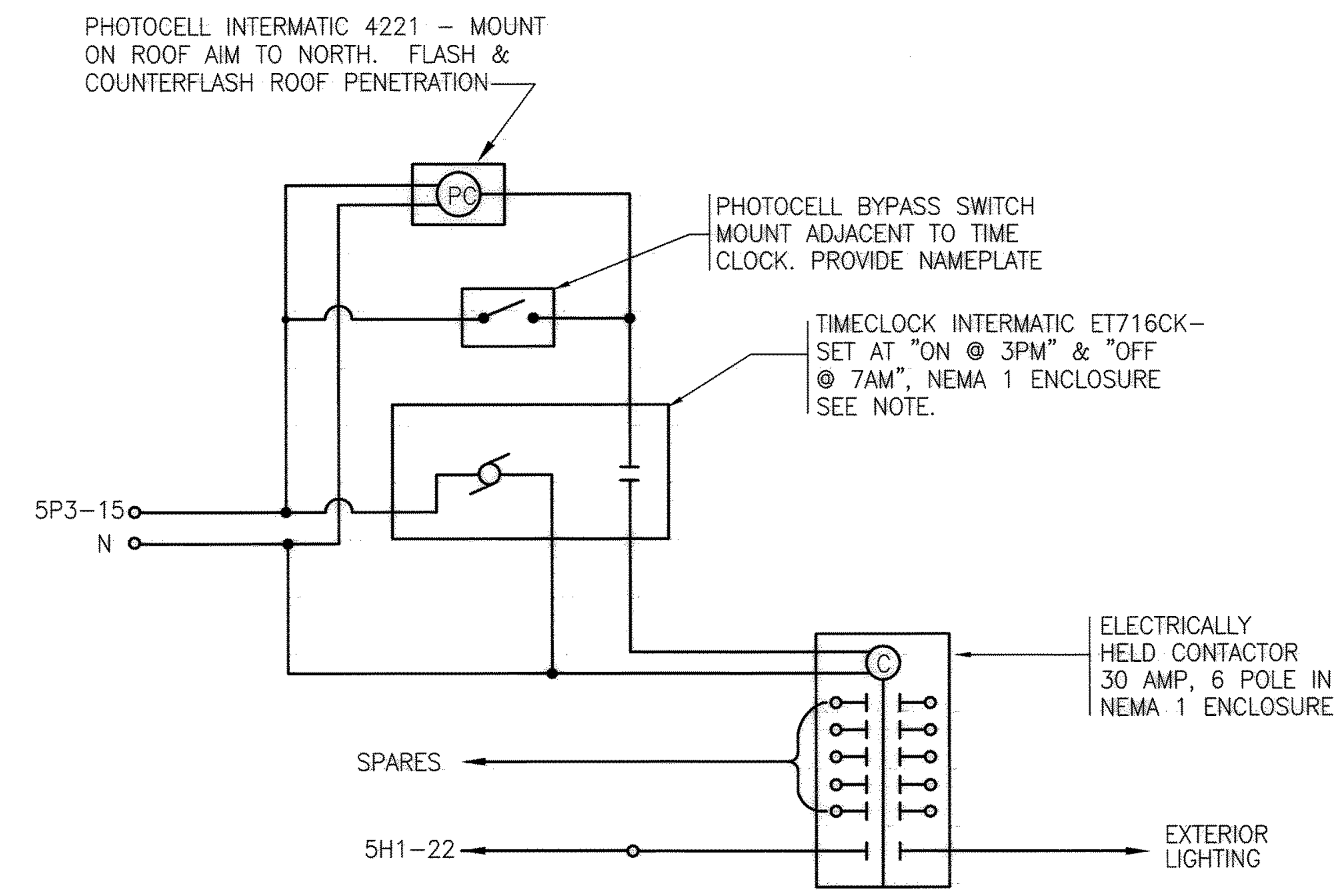
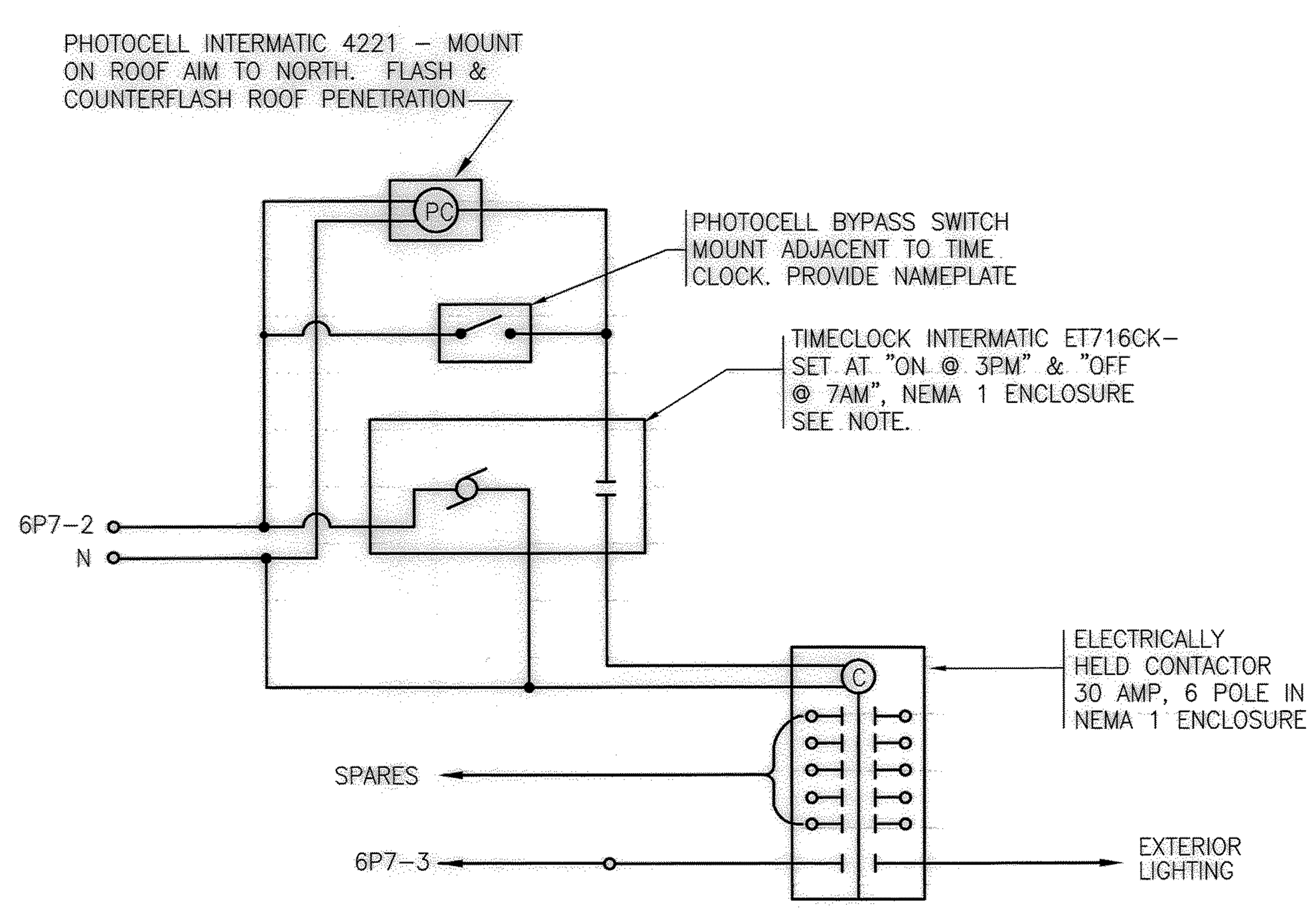


MAINTENANCE BUILDING

NOT TO SCALE

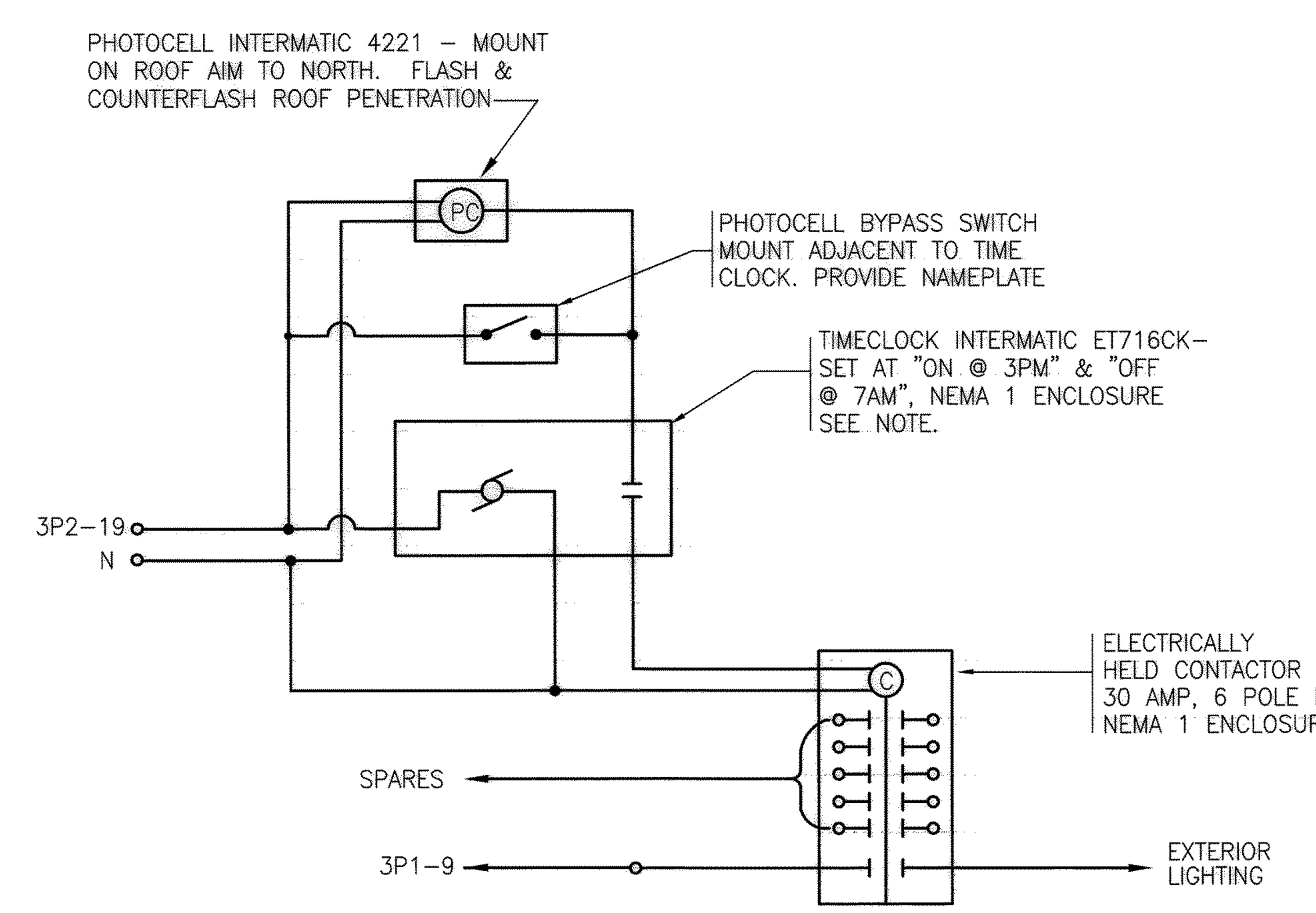
GENERAL NOTE

1. DEPENDING ON TIMECLOCK SETTINGS AND POSITION OF BYPASS SWITCH, LIGHTING MAY BE CONTROLLED DIRECTLY BY PHOTOCELL, TIMECLOCK, OR "ON" BY PHOTOCELL, "OFF" BY TIMECLOCK.



TROUBLE SHACK

NOT TO SCALE



MARINE BUILDING

NOT TO SCALE

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6321-17

FILE NUMBER:DETAILS-23003.DWG

PORT OF TACOMA P.O. BOX 1837
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6021 12th street east
suite 201
tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499

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	RECORD DRAWINGS			

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PROJECT ENGR.– DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
LIGHTING CONTROL DIAGRAMS

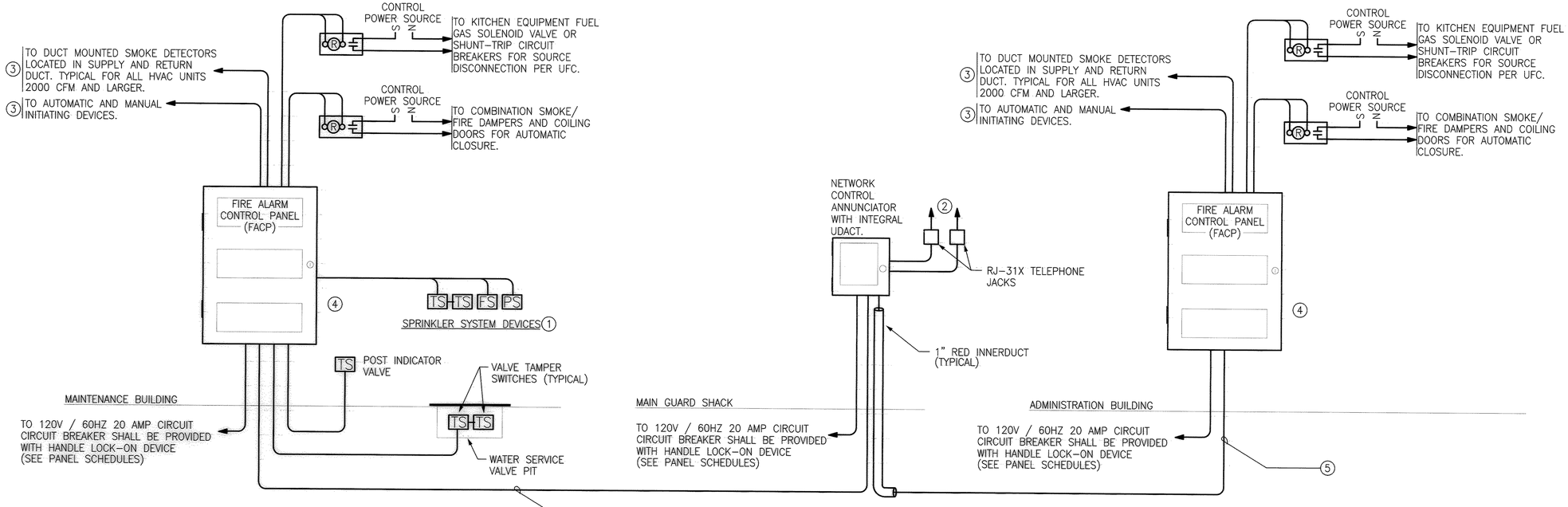
TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: NONE

EP-5551-47

E1.103

SHEET 18 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS



1 PROVIDED BY MECHANICAL CONTRACTOR, CONNECTED TO FACP BY ELECTRICAL CONTRACTOR. COORDINATE WITH DIVISION 15 CONTRACTOR TO CONFIRM LOCATION AND QUANTITY.

2 (2) 4 PAIR/22 GAUGE TELEPHONE CABLES TO RJ–21X PUNCHBLOCK LOCATED AT TELEPHONE TERMINATION BOARD. TELEPHONE LINE SERVICE PROVIDED BY OWNER.

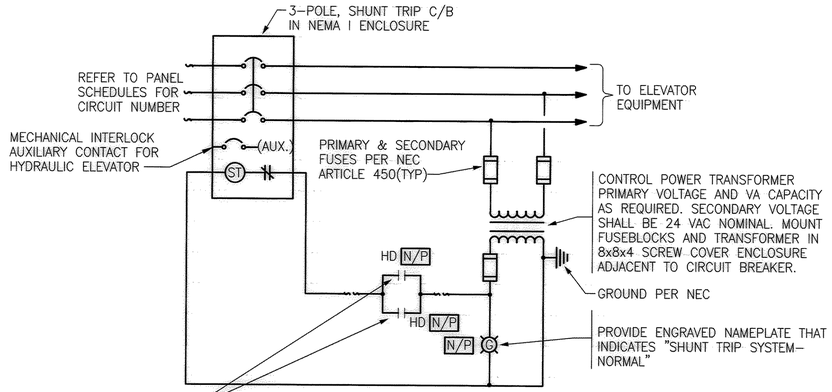
3 REFER TO FIRE ALARM SYSTEM CIRCUIT SCHEDULE FOR MINIMUM CIRCUITING REQUIREMENTS.

4 PANEL SHALL BE FLUSH MOUNTED WHERE INSTALLED IN FINISHED AREAS SUCH AS OFFICE, WORKROOMS, CORRIDORS, ETC... PROVIDE SURFACE TYPE MOUNTING WHERE PANEL IS LOCATED IN UTILITY TYPE SPACES SUCH AS CUSTODIAL, MECHANICAL OR ELECTRICAL ROOMS.

5 6–STRAND MULTIMODE FIBER WITH 1" INNERDUCT. COMMSCOPE #Z–006–DS–6F–FSDBK. SEE SPECIFICATION SECTION 16720. PROVIDE SERVICE LOOP IN EACH MANHOLE.

FIRE ALARM SYSTEM – BLOCK DIAGRAM

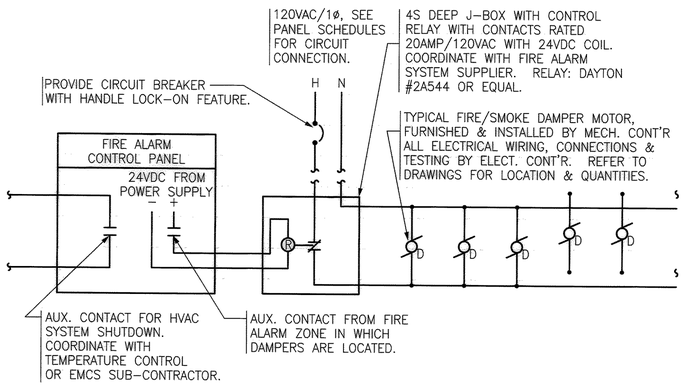
DIAGRAMMATIC



HEAT DETECTORS AT TOP OF SHAFT AND IN EQUIPMENT ROOM. EDWARDS MODEL #283A OR APPROVED EQUAL, 135° FIXED TEMP THERMAL DETECTOR. LOCATE WITHIN 18" OF SPRINKLER HEAD. DETECTORS TO BE INDEPENDENT OF FIRE ALARM SYSTEM. PROVIDE ENGRAVED LABEL: "ELEVATOR CONTROL ONLY–DO NOT TEST" TO ENSURE POWER DISCONNECTION BEFORE SPRINKLER WATER FLOW, SPRINKLER HEAD TEMPERATURE RATING SHALL BE HIGHER THAN HEAT–DETECTOR RATING. COORDINATE WITH SPRINKLER SYSTEM CONTRACTOR. SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH WASHINGTON ADMIN. CODE WAC 296–81–277. COORDINATE TESTING WITH ELEVATOR AND SPRINKLER SYSTEM CONTRACTORS.

MAINTENANCE AND ADMINISTRATION BUILDING ELEVATOR SHUNT TRIP SYSTEM – CONNECTION DETAIL

NOT TO SCALE



SEQUENCE OF OPERATION: UPON POWER OUTAGE OR ZONE FIRE ALARM SIGNAL, FIRE/SMOKE DAMPERS SHALL CLOSE, AND HVAC SYSTEM SHALL BE SHUTDOWN. UPON RESET OF FIRE ALARM CONTROL PANEL, DAMPERS SHALL AUTOMATICALLY OPEN, AND HVAC SYSTEM SHALL START.

FIRE/SMOKE DAMPER CONTROL DIAGRAM

NOT TO SCALE

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6321-17

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PORT OF TACOMA
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PIERCE COUNTY TERMINAL
DIAGRAMS

TOWNSHIP:
DATUM: HORIZ
DRAWING SCALE: NONE

RANGE:
SECTION:
VERT:

EP-~~551-17~~

E1.104

SHEET 19 OF 230
CONTRACT NUMBER 9981S4
E NUMBER: E1974
PHASE: RECORD DRAWINGS

FILE NUMBER:DETAILS–23003.DWG

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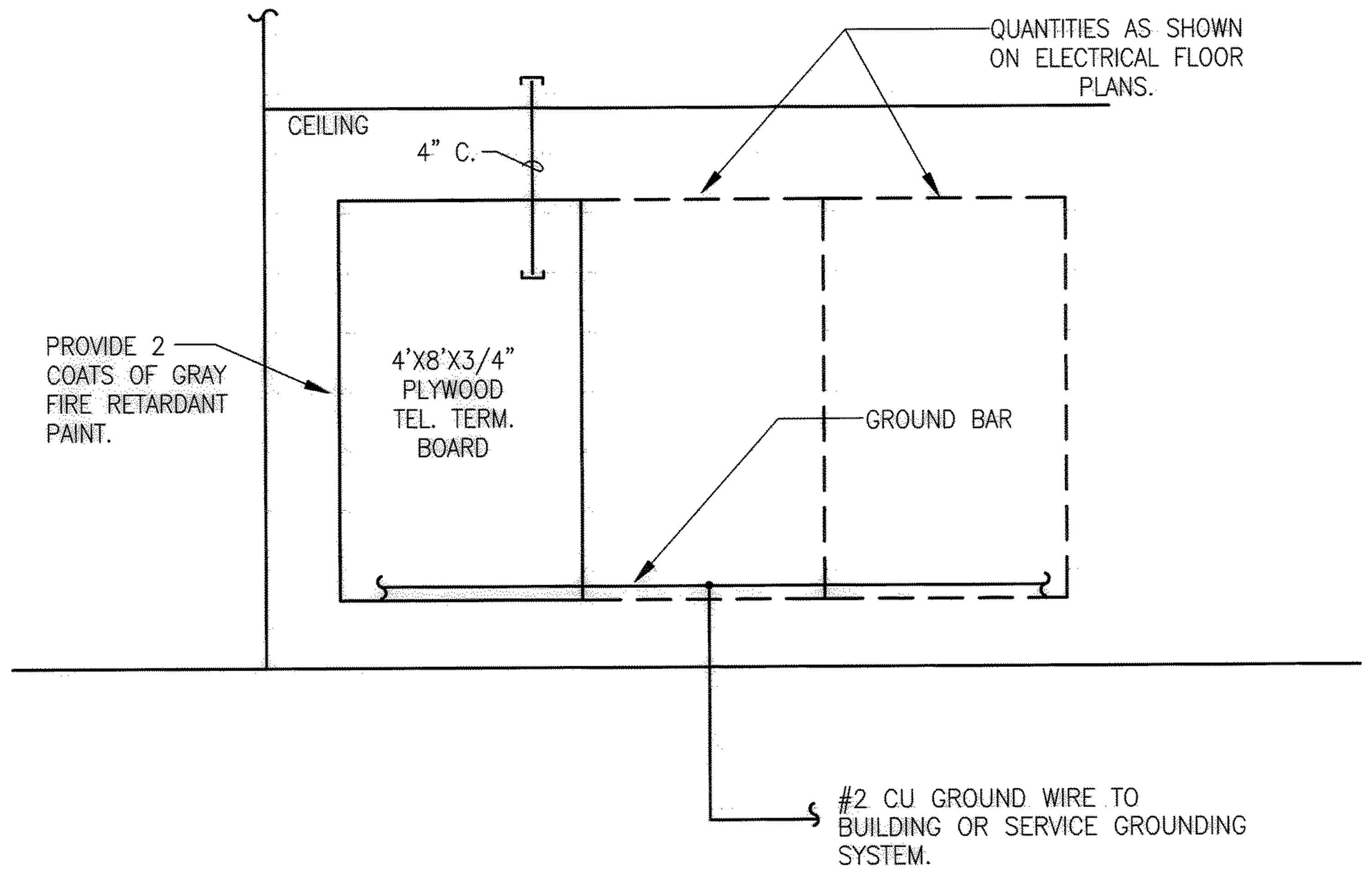
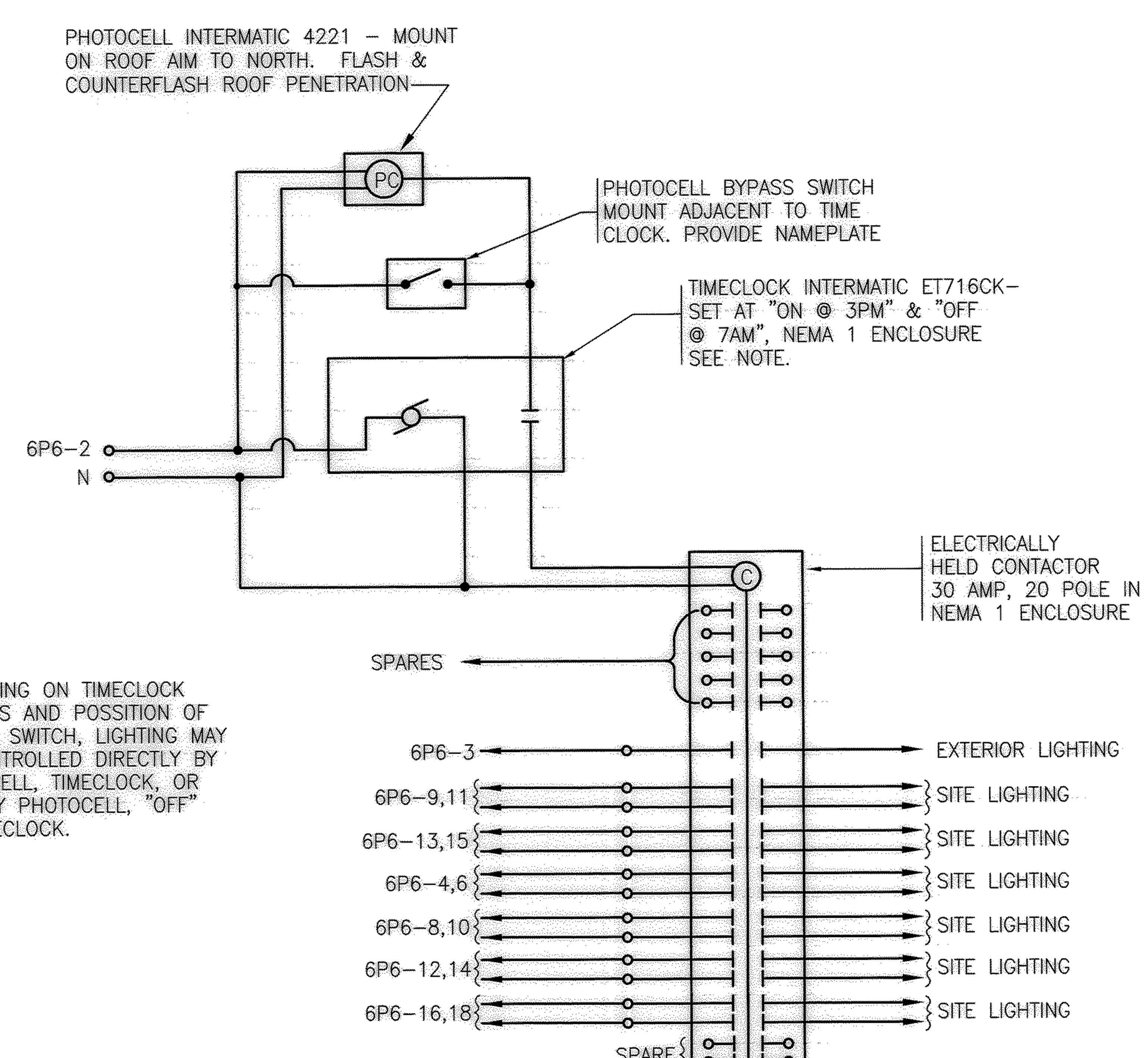


TELEPHONE BACKBOARD DETAIL

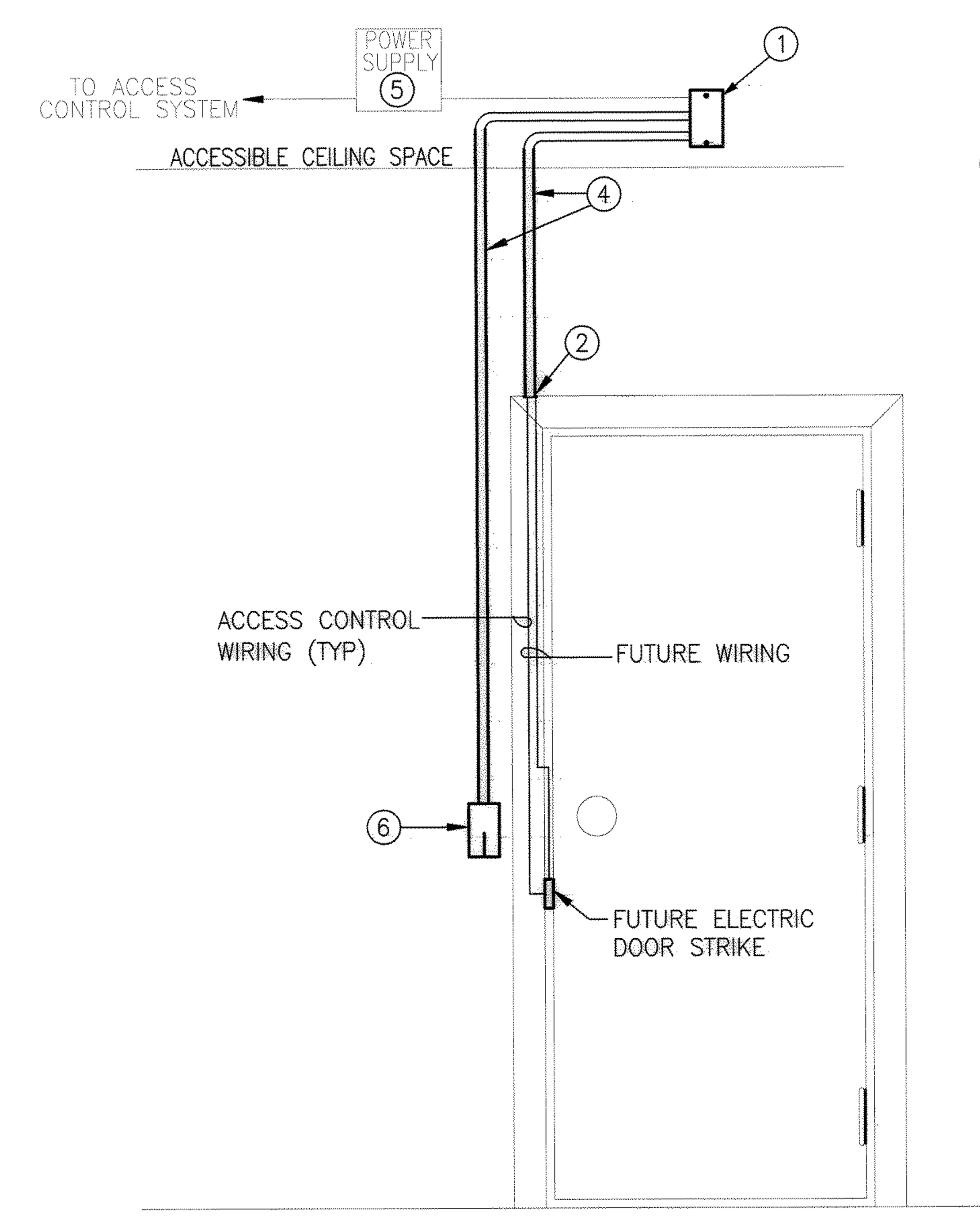
NO SCALE



NOTE: DEPENDING ON TIMECLOCK SETTINGS AND POSSITION OF BYPASS SWITCH, LIGHTING MAY BE CONTROLLED DIRECTLY BY PHOTOCELL, TIMECLOCK, OR "ON" BY PHOTOCELL, "OFF" BY TIMECLOCK.

WEST GATE

NOT TO SCALE



CARD ACCESS ROUGH–IN DETAIL

NOT TO SCALE

DOOR DETAIL NOTES

1. RECESSED 4–SQUARE J–BOX W/1–GANG MUD RING & BLANK, S/S PLATE, FOR TERMINATION OF SWITCH PIGTAIL LEADS.
2. SECURE CONDUIT TO DOOR FRAME TO PREVENT MOVEMENT.
3. NOT USED
4. 3/4" EMT TO ACCESSIBLE CEILING SPACE. PROVIDE PULLSTRING.
5. POWER SUPPLY BY CARD ACCESS SUPPLIER.
6. CARD READER ROUGH–IN. MOUNT AT +48"A.F.F. MOUNT ON WALL ADJACENT TO DOOR STRIKE WHERE POSSIBLE.

BCE ENGINEERS, INC.
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FILE NUMBER:DETAILS-23003.DWG

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TACOMA, WA 98401 253-383-5841

Helix
6021 12th street east suite 201 tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499

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CHIEF ENGINEER – DATE

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PROJECT ENGR.– DATE

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PORT ADDRESS:
PORT PARCEL:

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: NONE

PORT OF TACOMA
PIERCE COUNTY TERMINAL DETAILS AND DIAGRAMS

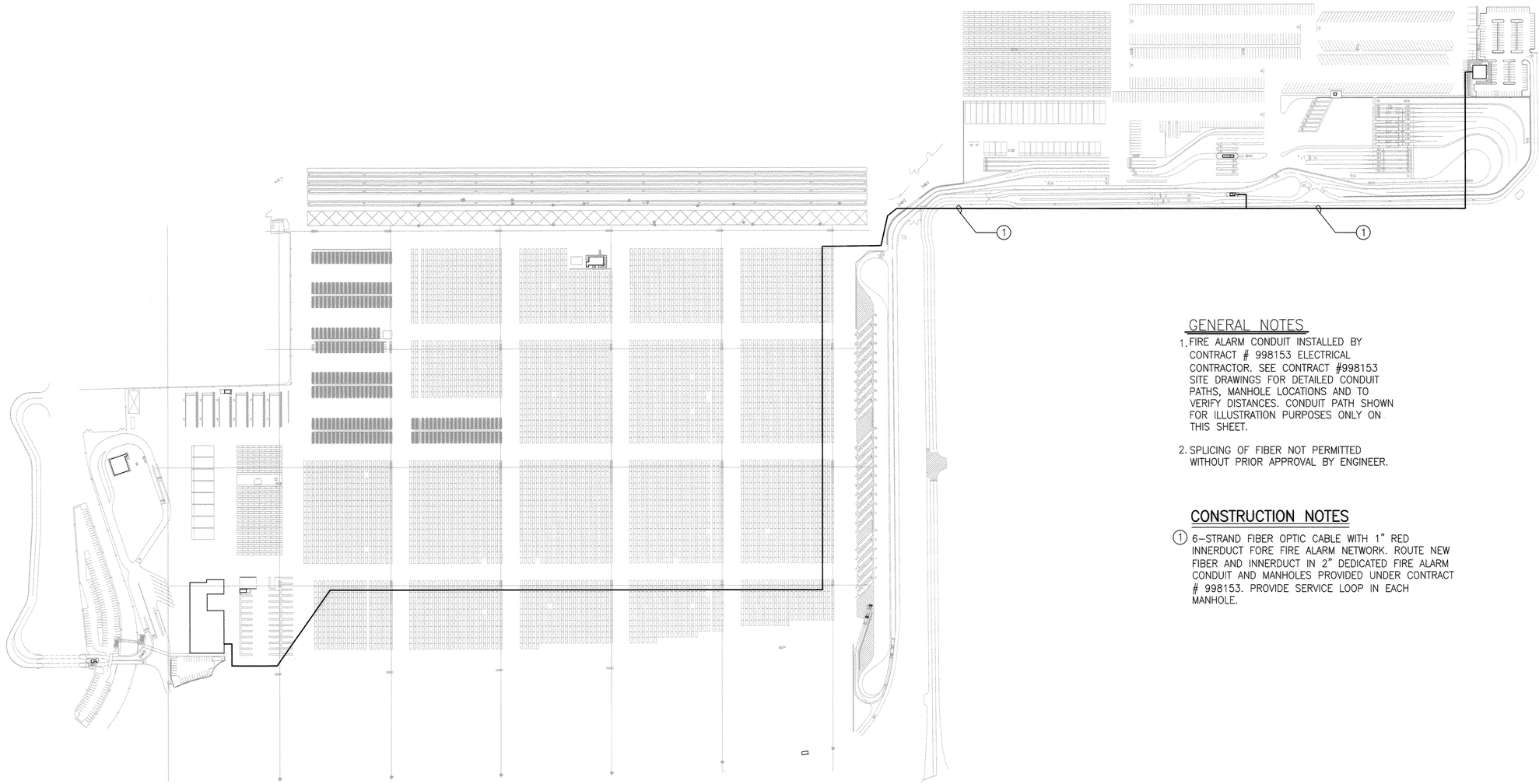
EP-5564-17

E1.105

SHEET 20 OF 230

CONTRACT NUMBER: 998154
E NUMBER: 6321-17
PHASE: RECORD DRAWINGS

6321-17



GENERAL NOTES

1. FIRE ALARM CONDUIT INSTALLED BY CONTRACT # 998153 ELECTRICAL CONTRACTOR. SEE CONTRACT #998153 SITE DRAWINGS FOR DETAILED CONDUIT PATHS, MANHOLE LOCATIONS AND TO VERIFY DISTANCES. CONDUIT PATH SHOWN FOR ILLUSTRATION PURPOSES ONLY ON THIS SHEET.
2. SPLICING OF FIBER NOT PERMITTED WITHOUT PRIOR APPROVAL BY ENGINEER.

CONSTRUCTION NOTES

(1) 6-STRAND FIBER OPTIC CABLE WITH 1" RED INNERDUCT FORE FIRE ALARM NETWORK. ROUTE NEW FIBER AND INNERDUCT IN 2" DEDICATED FIRE ALARM CONDUIT AND MANHOLES PROVIDED UNDER CONTRACT # 998153. PROVIDE SERVICE LOOP IN EACH MANHOLE.

1 ELECTRICAL SITE PLAN

SCALE: 1"=200'-0" | BMM | xsp-23003.dwg

PROJECT NORTH

50' 200'
0 100' 400'

PORT OF TACOMA
TACOMA, WA 98401 P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Holz
4021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499

BCE ENGINEERS, INC.
6621 12TH STREET E. SUITE 200
TACOMA, WA 98424
(253) 922-0446 FAX (253) 922-0896

MARK	REVISION	BY:	APPR'D:	DATE:
	RECORD DRAWINGS			

APPROVED

CHIEF ENGINEER – DATE

CHECKED BY – DATE

PROJECT ENGR.– DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ. VERT:
DRAWING SCALE:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
ELECTRICAL SITE PLAN

CONTRACT NUMBER: 998154
P. NUMBER: E1974
PHASE: RECORD DRAWINGS

SHEET 21 OF 230

E1.200

EP-~~6321-17~~

6321-17

FILE NUMBER-SITE-23003.DWG

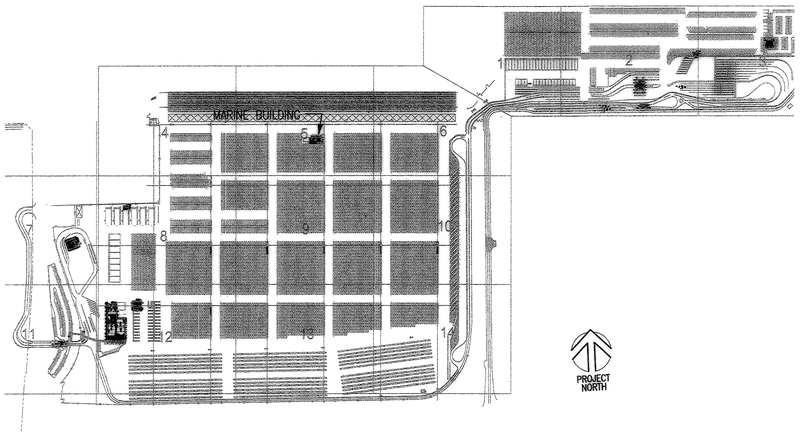
user: Jan 07,2005 - 10:41am K:\dwgs\2003\203-003\elec\As-Built site_23003.dwg user

PORT OF TACOMA

PIERCE COUNTY TERMINAL

MARINE BUILDING SET

KEY PLAN



BUILDING INFORMATION

BUILDING AREA	
FIRST FLOOR	1,750 SQ. FT.
SECOND FLOOR	1,750 SQ. FT.
TOTAL	3,500 SQ. FT.
FIRE SPRINKLERS	NO
CODE INFORMATION	
OCCUPANCY GROUPS	B – OFFICE A-3 – BREAK
CONSTRUCTION TYPE	V-N
MAXIMUM ALLOWABLE BUILDING HEIGHT	40 FT.
MAXIMUM ALLOWABLE BUILDING STORIES	2 STORIES
ALLOWABLE FLOOR AREA	
ALL FLOORS	8,000 SQ. FT.
OCCUPANT LOAD	
FIRST FLOOR	78 OCCUPANTS
SECOND FLOOR	10 OCCUPANTS
TOTAL	88 OCCUPANTS

SHEET INDEX

A3.G01 COVER SHEET

ARCHITECTURAL DRAWINGS

A3.G02 SITE PLAN
A3.100 FLOOR PLANS
A3.110 ROOF PLAN
A3.120 REFLECTED CEILING PLANS
A3.200 FINISH SCHEDULES
A3.300 ELEVATIONS
A3.400 BUILDING SECTIONS
A3.500 WALL SECTIONS

STRUCTURAL DRAWINGS

S3.001 GENERAL NOTES
S3.002 GENERAL NOTES
S3.101 FOUNDATION AND FRAMING PLANS
S3.102 STAIR PLANS
S3.201 BRACED FRAME ELEVATIONS
S3.301 FOUNDATION DETAILS & SCHEDULES
S3.302 FOUNDATION DETAILS & SCHEDULES
S3.311 FRAMING DETAILS & SCHEDULES
S3.312 FRAMING DETAILS & SCHEDULES
S3.321 COMPOSITE STEEL DECK DETAILS
S3.331 ROOF FRAMING DETAILS

MECHANICAL DRAWINGS

M3.100 SCHEDULES
M3.210 PLUMBING PLANS
M3.310 RCP AND FURRED CEILING PLANS

ELECTRICAL DRAWINGS

E3.100 BUILDING LIGHTING PLAN
E3.200 BUILDING POWER PLAN
E3.300 BUILDING SYSTEMS PLAN
E3.400 PANEL SCHEDULES

Project Team

OWNER

PORT OF TACOMA
E 2179 PORT OF TACOMA
P.O. BOX 1837
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FAX: 253-383-6233
EMAIL: dmyers@portoftacoma.com

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33301 NINTH AVENUE SOUTH
SUITE 300
FEDERAL WAY, WA 98003
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FAX: 206-431-2250
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FAX: 253-922-0896
EMAIL: mcozart@bceeng.com

AMERICAN INSTITUTE OF ARCHITECTS

6321-17

FILE NUMBER:C:\FILES\FILENAME.DWG

RECORD DRAWING

PORT OF TACOMA
USA

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Helix
6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499

APPROVED

CHIEF ENGINEER – DATE

LC 8/22/03
CHECKED BY – DATE

LC 8/22/03
PROJECT ENGR.– DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

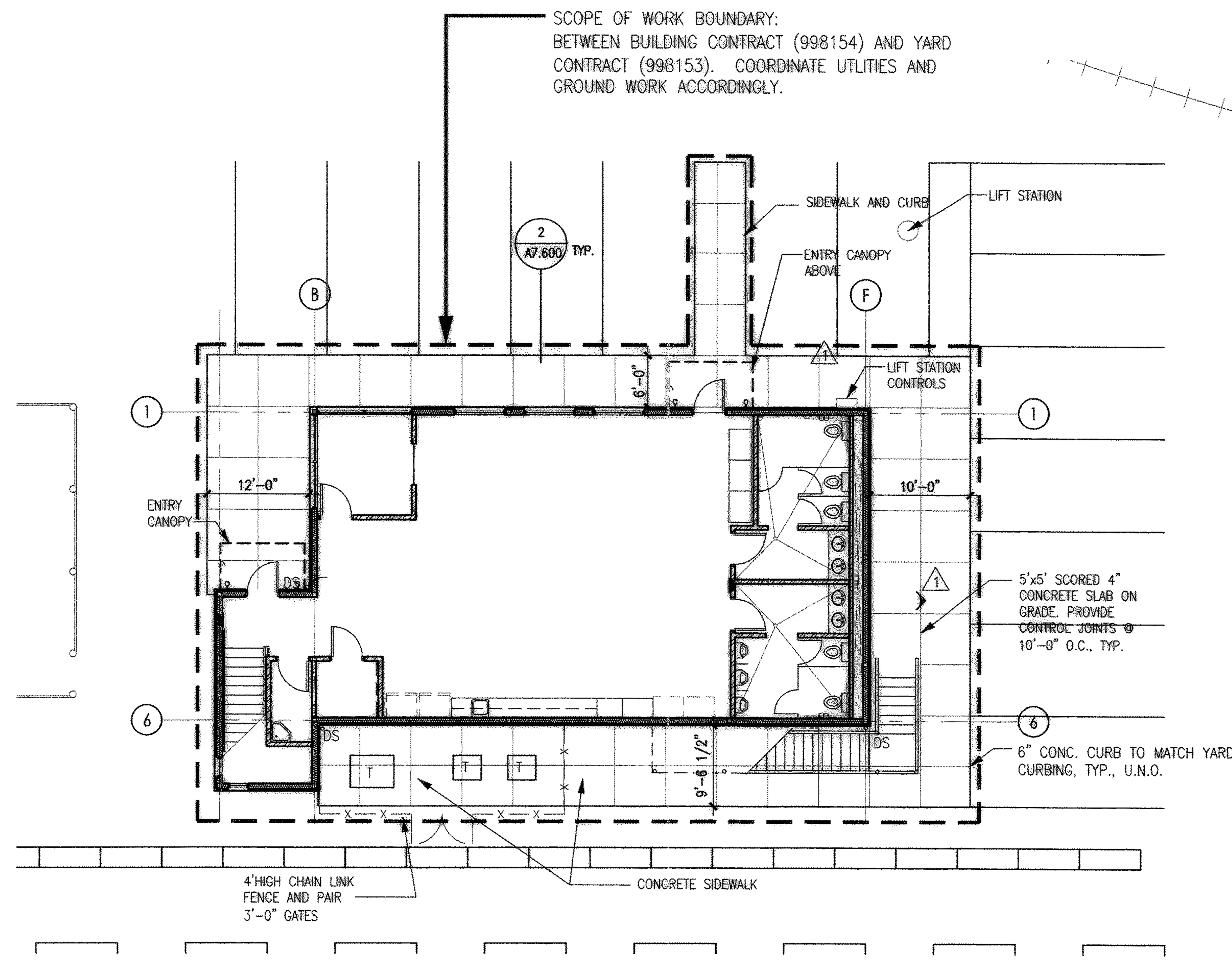
PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: NTS

CONTRACT NUMBER: 998154
E NUMBER: E19774
PHASE: RECORD DRAWING

EP ~~5551-17~~

A3.G01
SHEET 56 OF 230

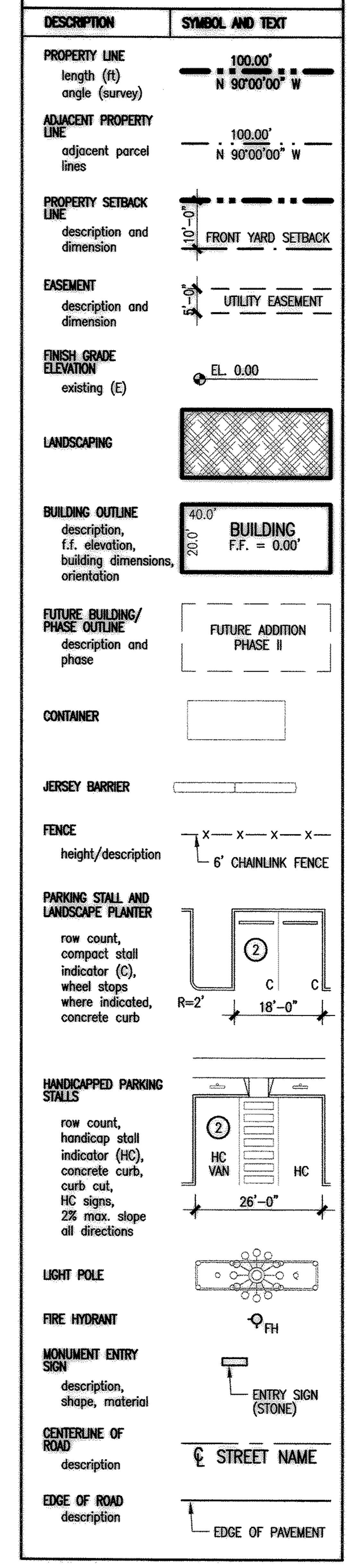

SCOPE OF WORK BOUNDARY:
BETWEEN BUILDING CONTRACT (998154) AND YARD CONTRACT (998153). COORDINATE UTILITIES AND GROUND WORK ACCORDINGLY.
SIDEWALK AND CURB
LIFT STATION
ENTRY CANOPY ABOVE
2
A7.600
TYP.
B
F
1
6
6'-0"
LIFT STATION CONTROLS
12'-0"
10'-0"
ENTRY CANOPY
DS
5'x5' SCORED 4" CONCRETE SLAB ON GRADE. PROVIDE CONTROL JOINTS @ 10'-0" O.C., TYP.
9'-6 1/2"
6" CONC. CURB TO MATCH YARD CURBING, TYP., U.N.O.
T
4'HIGH CHAIN LINK FENCE AND PAIR 3'-0" GATES
CONCRETE SIDEWALK

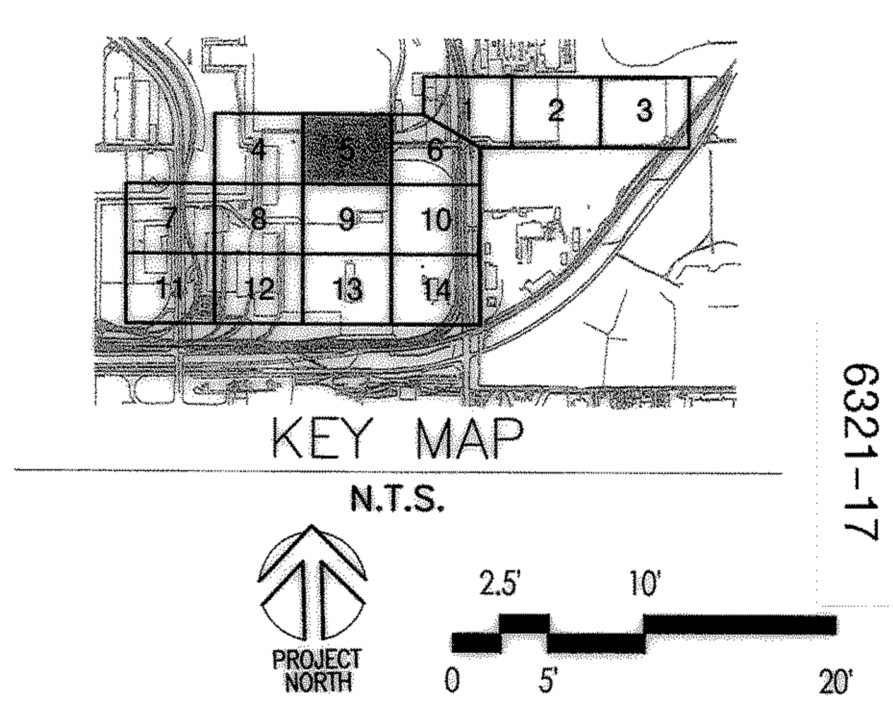
1 MARINE BUILDING SITE PLAN F.F. = 21.75'

SCALE: 1"=10'-0" | PEC | E2164A_FP-01.DWG

FOR FINISHED FLOOR ELEVATION AND BUILDING CORNER LOCATIONS REFER TO CONTRACT (998153) PROVIDE 1:20 SIDEWALK CROSS SLOPE

SITE PLAN LEGEND


DESCRIPTION
SYMBOL AND TEXT
PROPERTY LINE
length (ft)
angle (survey)
100.00'
N 90°00'00" W
ADJACENT PROPERTY LINE
adjacent parcel lines
100.00'
N 90°00'00" W
PROPERTY SETBACK LINE
description and dimension
10'-0"
FRONT YARD SETBACK
EASEMENT
description and dimension
UTILITY EASEMENT
FINISH GRADE ELEVATION
existing (E)
EL. 0.00
LANDSCAPING
BUILDING OUTLINE
description, f.f. elevation, building dimensions, orientation
40.0'
20.0'
BUILDING
F.F. = 0.00'
FUTURE BUILDING/ PHASE OUTLINE
description and phase
FUTURE ADDITION PHASE II
CONTAINER
JERSEY BARRIER
FENCE
height/description
6' CHAINLINK FENCE
PARKING STALL AND LANDSCAPE PLANTER
row count, compact stall indicator (C), wheel stops where indicated, concrete curb
2
C
C
R=2'
18'-0"
HANDICAPPED PARKING STALLS
row count, handicap stall indicator (HC), concrete curb, curb cut, HC signs, 2% max. slope all directions
HC VAN
HC
26'-0"
LIGHT POLE
FIRE HYDRANT
FH
MONUMENT ENTRY SIGN
description, shape, material
ENTRY SIGN (STONE)
CENTERLINE OF ROAD
description
STREET NAME
EDGE OF ROAD
description
EDGE OF PAVEMENT



6321-17

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA U.S.A.

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Helix
6021 12th street east
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tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499

RECORD DRAWING

APPROVED

CHIEF ENGINEER - DATE

LC 8/22/03
CHECKED BY - DATE

LC 8/22/03
PROJECT ENGR.- DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1" = 10'

EP-~~6551-17~~

A3.G02
SHEET 67 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

FILE NUMBER: C:\~~FILES\FILENAME.DWG~~

PORT of TACOMA U.S.A.
PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
Helix
6021 12th street east
suite 201
tacoma, wa. 98424
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RECORD DRAWING

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LC 8/22/03
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LC 8/22/03
PROJECT ENGR.– DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

EP-~~5551-17~~

A3.100

SHEET 58 OF 230

MARK	REVISION	BY:	APPROVED:	DATE:
2	ADDENDUM # 2	PEC	LC	10.03.03

DRAWING DATE: 12/20/04
PORT ADDRESS: PIERCE COUNTY TERMINAL
PORT PARCEL:

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'-0"

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

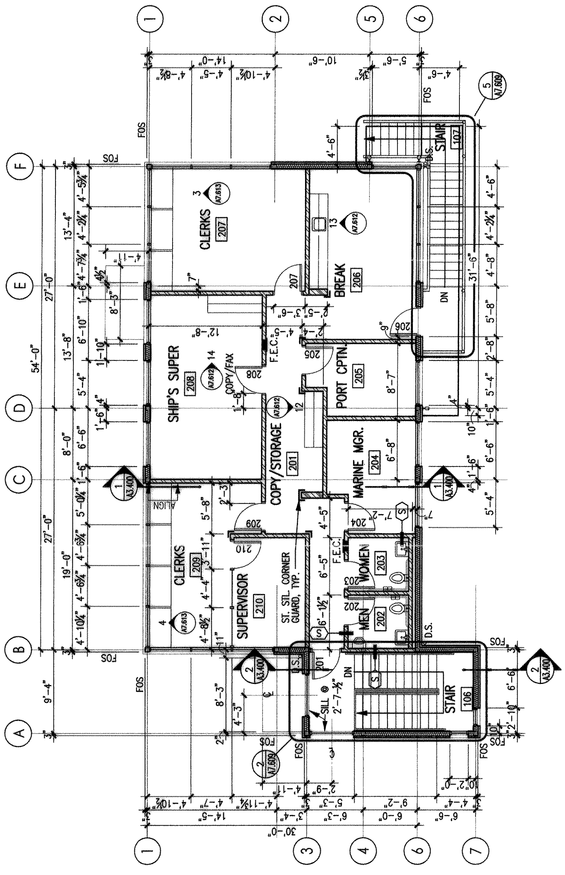
6321-17

16'
8'
4'
2'
0

PROJECT NORTH

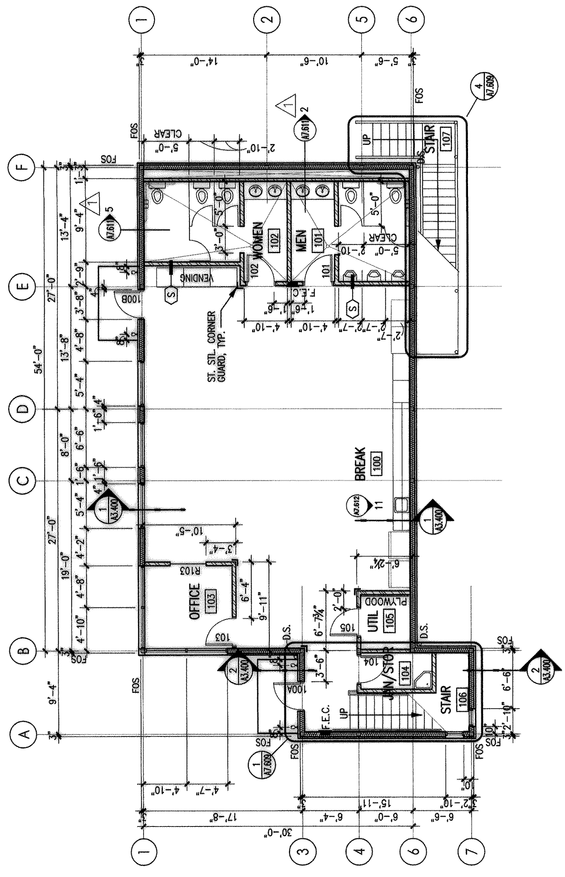
WALL TYPES

DESCRIPTION	SYMBOL AND TEXT
WALL TYPE 1 3 5/8" METAL STUDS @ 16" O.C.	
WALL TYPE 2 6" METAL STUDS @ 16" O.C.	
WALL TYPE 3 6" METAL C-H STUDS @ 24" O.C. WITH 1" SHAFT LINER AND 5/8" GWB (SHAFTWALL)	
WALL TYPE 4 6" METAL C-H STUDS @ 24" O.C. WITH 1" SHAFT LINER AND 5/8" GWB (SHAFTWALL)	
WALL TYPE 5 6" METAL STUDS @ 16" O.C. W/ 7/8 FURRING CHANNELS AND METAL SIDING	
WALL TYPE 6 3" METAL GIRTS W/ 3-5/8" METAL STUDS @ 16" O.C. AND METAL SIDING	
WALL TYPE 7 8" METAL GIRTS AND METAL SIDING	
WALL TYPE 8 12" CMU WALL	
1 HOUR RATED WALL	



2 SECOND FLOOR PLAN

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



1 FIRST FLOOR PLAN

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

E2164A_FP-01.DWG PEC

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499
Helix

RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

LC 8/22/03
CHECKED BY – DATE

LC 8/22/03
PROJECT ENGR.– DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'-0"

EP-~~5551-17~~

A3.110

SHEET 59 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

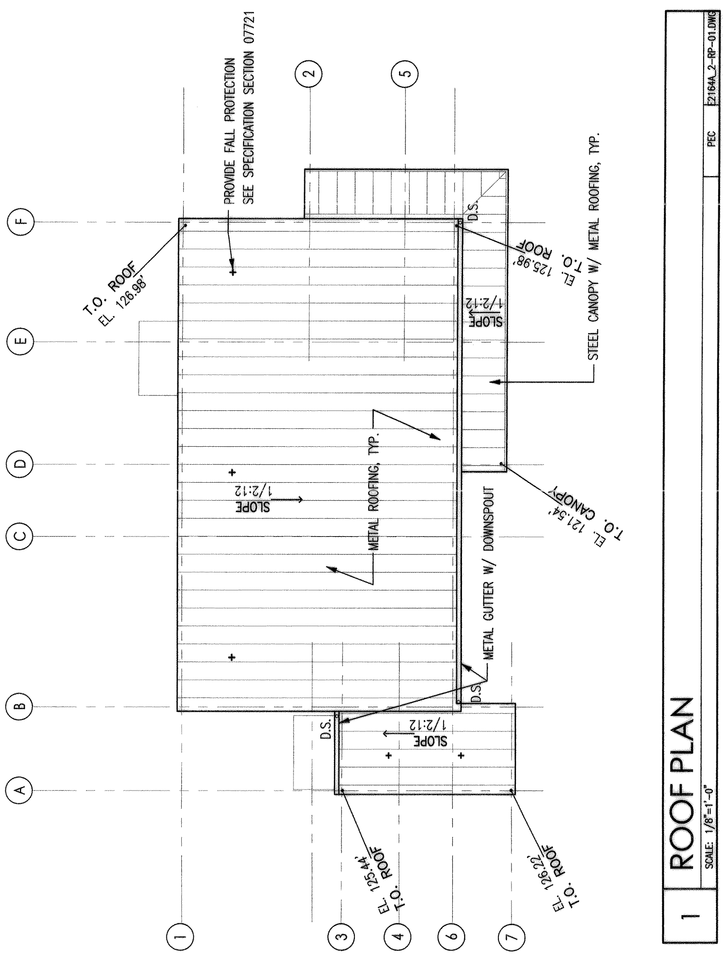
6321-17

ROOF PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT
METAL DECKING: refer to structural for layout, type and sizes	
METAL ROOFING: 18" wide standing seam metal roof panels	
BUILDING OUTLINE BELOW	
ROOF OUTLINE	
ROOF FEATURES	
ROOFING IDENTIFICATION: material type	BUILT-UP ROOFING
FEATURE IDENTIFICATION: feature elevation	RIDGE EL. 100.0'
SLOPE IDENTIFICATION: direction indicator, rise / run	SLOPE 1:12
ELEVATION IDENTIFICATION: feature elevation t.o. curb t.o. parapet t.o. roof t.o. steel b.o. gutter	T.O. PARAPET EL. 100.0'
ROOF ACCESS HATCH: 30"w x 36"d, cricket at up slope side	
ROOF TOP MECHANICAL UNIT: unit number, unit weight, unit dimensions, hvac unit on 12" ht. built-up curb with flashing	UNIT 1 1000 lbs 72"x60"
ROOF GUTTER: continuous watertight metal gutter, slope to d.s.	GUTTER D.S. BELOW; ROOF LINE
DOWNSPOUT: refer to RP for size and locations	D.S.

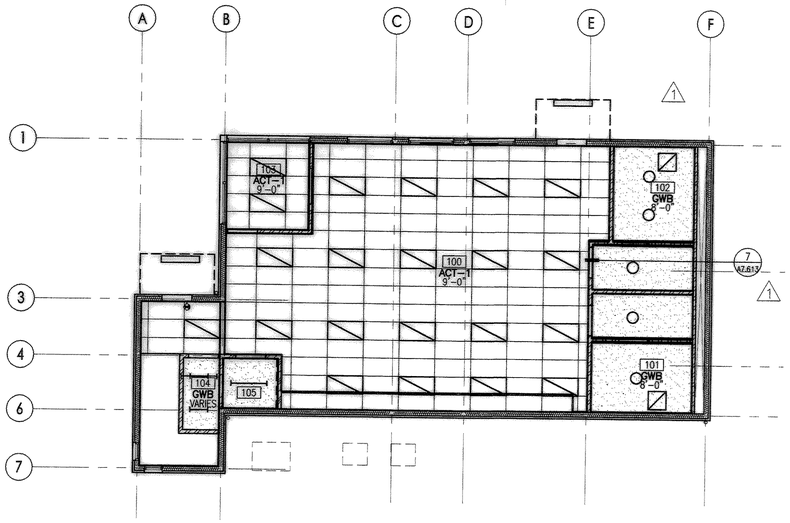
16' 8' 4' 2' 0

PROJECT NORTH



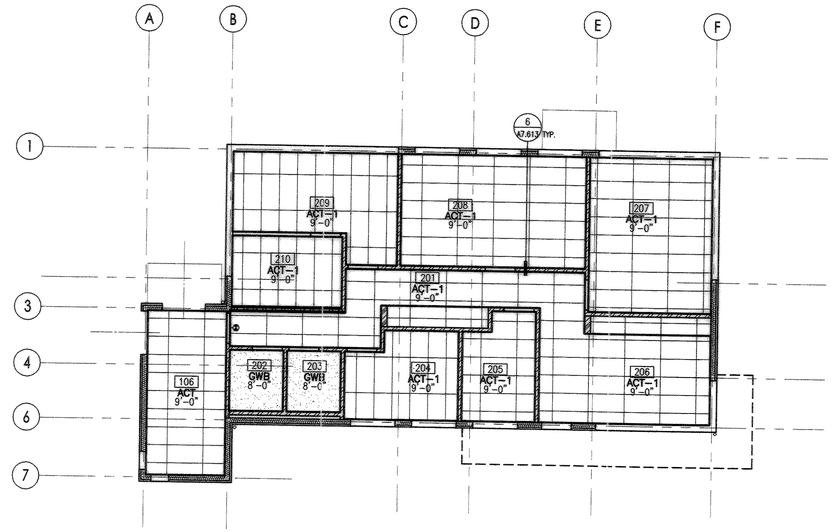
1 ROOF PLAN
SCALE: 1/8"=1'-0"

PEC | 2166A_2-RP-01.DWG



1 FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0" | PEC | E1974A_RCP-01.DWG



2 SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0" | PEC | E1974A3_RCP-01.DWG

REFLECTED CEILING PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT
CEILING IDENTIFICATION room number material ceiling height	100 GWB 8'-0"
SOFFIT material item height	GWB SOFFIT 8'-0"
TYPE 1 SUSPENDED ACOUSTICAL CEILING SYSTEM 2'x4' tiles, refer to RCP for grid starting point, otherwise center layout in space – typical	100 ACT-1 9'-0"
GWB CEILING SYSTEM gwb ceiling system	100 GWB 9'-0"
SLOPED CEILING IDENTIFICATION direction indicator, rise / run, refer to RCP for ceiling heights and starting point	SLOPED CLG 1:12
RECESSED FLUORESCENT LIGHT FIXTURE 2'x4' fixture, 2'x2' fixture coordinate with electrical	
SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE 1'x4' fixture, 1'x2' fixture coordinate with electrical	
SUSPENDED FLUORESCENT LIGHT FIXTURE 1'x4' fixture, 1'x2' fixture coordinate with electrical, refer to RCP for height of fixture	
RECESSED DOWN LIGHT FIXTURE center fixture in ceiling tile or at spacing dimensioned on RCP, refer to electrical for fixture type	
SPRINKLER HEAD center head in ceiling tile or at spacing dimensioned on RCP, refer to fire protection	
SUSPENDED TRACK AND ADJUSTABLE LIGHT FIXTURES coordinate location with interior furnishings, refer to RCP for mounting height	
WALL MOUNTED EXIT SIGN center over exit door, mount at 8'-0" a.f.f.	
RECESSED SUPPLY AIR DIFFUSER 2'x2' fixture, coordinate with mechanical	
RECESSED RETURN AIR DIFFUSER 2'x2' fixture, coordinate with mechanical	

PROJECT NORTH

2' 8'
0 4' 16'

6321-17

PORT OF TACOMA USA
PORT OF TACOMA, P.O. BOX 1837
TACOMA, WA 98401 . 253-383-6841
Hebb
4021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499

RECORD DRAWING

FILE NUMBER:C:\FILES\FILENAME.DWG

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE:	12/20/04
PORT ADDRESS:	
PORT PARCEL:	
LC CHECKED BY – DATE	8/22/03
LC PROJECT ENGR.– DATE	8/22/03

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

TOWNSHIP:	
RANGE:	
SECTION:	
DATUM: HORIZ.	
VERT.	
DRAWING SCALE: 1/8" = 1'-0"	

EP-~~5551-17~~

SHEET 60 OF 230
A3.120

CONTRACT NUMBER: 998154
E. NUMBER: E1974
PHASE: RECORD DRAWING

DOOR AND RELITE SCHEDULE

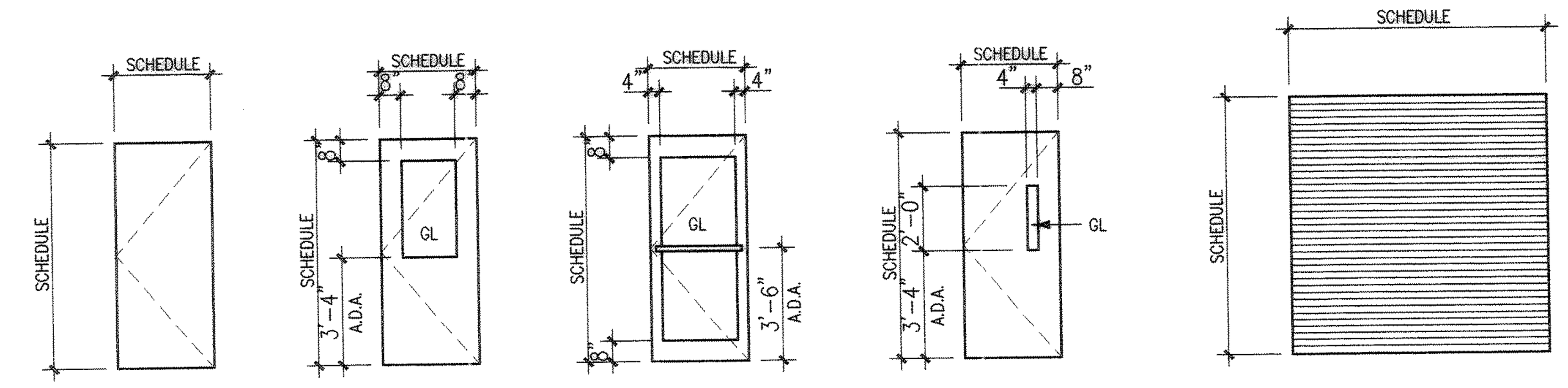
NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	RATING	HARDWARE GROUP	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	FRAME GLAZING	NOTES
100A	3'-0"x7'-0"	4	HM	PT	F	+	4	HM	PT	1	–	ELECTRIC STRIKE
100B	3'-0"x7'-0"	4	HM	PT	F	+	4	HM	PT	1	–	–
101	3'-0"x7'-0"	1	WD	ST	–	–	16	HM	PT	1	–	–
102	3'-0"x7'-0"	1	WD	ST	–	–	16	HM	PT	1	–	–
103	3'-0"x7'-0"	1	WD	ST	–	–	2	HM	PT	1	–	–
104	3'-0"x7'-0"	1	HM	PT	–	–	2	HM	PT	1	–	–
105	3'-0"x7'-0"	1	HM	PT	–	–	2	HM	PT	1	–	–
201	3'-0"x7'-0"	4	HM	PT	F	+	12	HM	PT	1	–	–
202	3'-0"x7'-0"	1	WD	ST	–	–	6	HM	PT	1	–	–
203	3'-0"x7'-0"	1	WD	ST	–	–	6	HM	PT	1	–	–
204	3'-0"x7'-0"	1	WD	ST	–	–	2	HM	PT	1	–	–
205	3'-0"x7'-0"	1	WD	ST	–	–	2	HM	PT	1	–	–
206	3'-0"x7'-0"	4	HM	PT	F	+	21	HM	PT	1	–	–
207	3'-0"x7'-0"	1	WD	ST	–	–	3	HM	PT	1	–	–
208	3'-0"x7'-0"	1	WD	ST	–	–	2	HM	PT	1	–	–
209	3'-0"x7'-0"	1	WD	ST	–	–	3	HM	PT	1	–	–
210	3'-0"x7'-0"	1	WD	ST	+	+	2	HM	PT	2	+	–
R103	4'-0"x4'-0"	–	–	–	–	–	–	HM	PT	1	–	–

SCHEDULE NOTES

① +

GENERAL NOTES

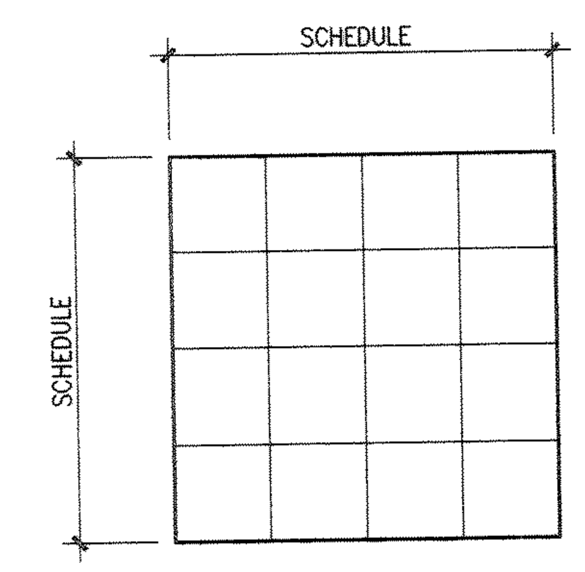
1. REFER TO PROJECT SPECIFICATION, SECTION 08710, "HARDWARE" FOR HARDWARE GROUPS.
2. REFER TO PROJECT SPECIFICATION, SECTION 08800, "GLAZING" FOR GLAZING TYPES.
3. REFER TO PROJECT SPECIFICATION, SECTION 01910, "COLOR AND MATERIALS" FOR FINISHES.
4. DOOR, FRAME, AND RELITE TYPES NOT SCHEDULED, ARE NOT USED.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5

DOOR TYPES

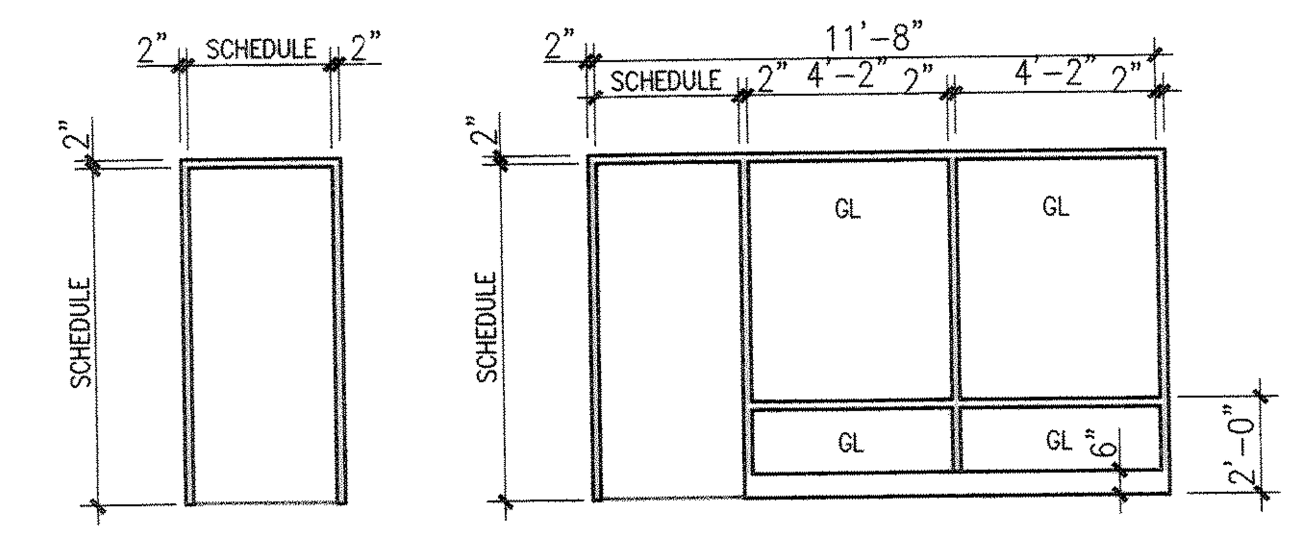
SCALE: 1/4"=1'-0"



TYPE 6 (FABRIC)

DOOR TYPES - CONTINUED

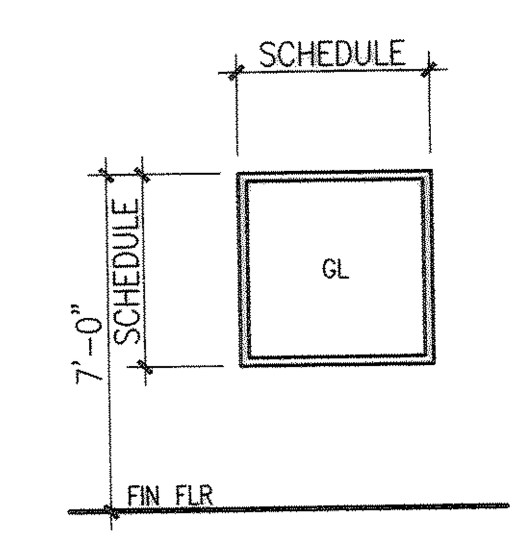
SCALE: 1/4"=1'-0"



TYPE 1 TYPE 2

DOOR FRAME TYPES

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



TYPE 1

RELITE TYPES

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

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	BASE	CEILING MATERIAL	CEILING FINISH	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	NOTES
100	BREAK	CONC	VCT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	②
101	MEN	CONC	SV	SV	GWB	PT	GWB	PT/FRP	GWB	PT/FRP	GWB	PT/FRP	GWB	PT/FRP	①
102	WOMEN	CONC	SV	SV	GWB	PT	GWB	PT/FRP	GWB	PT/FRP	GWB	PT	GWB	PT/FRP	①
103	OFFICE	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
104	JAN/STOR.	CONC	VCT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	FRP/PT	GWB	FRP/PT	①②
105	UTILITY	CONC	VCT	RB	EXPOSED	–	GWB	PT	GWB	PT	GWB	PT	GWB	PT	②
106	STAIR	CONC	SEAL	–	GWB/ACT	PT/FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
107	STAIR	CONC	SEAL	–	–	–	–	–	–	–	–	–	–	–	–
201	COPY/STORAGE	CONC	VCT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	②
202	MEN	CONC	SV	SV	GWB	PT	GWB	PT	GWB	PT/FRP	GWB	PT/FRP	GWB	PT/FRP	①
203	WOMEN	CONC	SV	SV	GWB	PT	GWB	PT	GWB	PT/FRP	GWB	PT/FRP	GWB	PT/FRP	①
204	MARINE MANAGER	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
205	PORT CPTN.	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
206	BREAK	CONC	VCT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	②
207	CLERKS	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
208	SHIP'S SUPER	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
209	CLERKS	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
210	SUPERVISOR	CONC	CPT	RB	ACT	FF	GWB	PT	GWB	PT	GWB	PT	GWB	PT	–
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SCHEDULE NOTES

① INSTALL FRP AT 54" HT A.F.F. 2

② SEE DETAIL 10/A7.613 FOR VCT FLOOR PATTERN

GENERAL NOTES

1. REFER TO PROJECT SPECIFICATION, SECTION 01910, "COLOR AND MATERIALS" FOR FINISHES.

FILE NUMBER: C:\E1974A3.200.DWG

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RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

LC 8/22/03
CHECKED BY – DATE

LC 8/22/03
PROJECT ENGR.– DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/4" = 1'-0"

EP ~~5351-17~~

A3.200
SHEET 61 OF 230
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

6321-17

FILE NUMBER:C:\FILES\FILENAME.DWG

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RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

LC 8/22/03
CHECKED BY – DATE

LC 8/22/03
PROJECT ENGR.– DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

EP-~~5551-17~~

A3.300

SHEET 62 OF 230

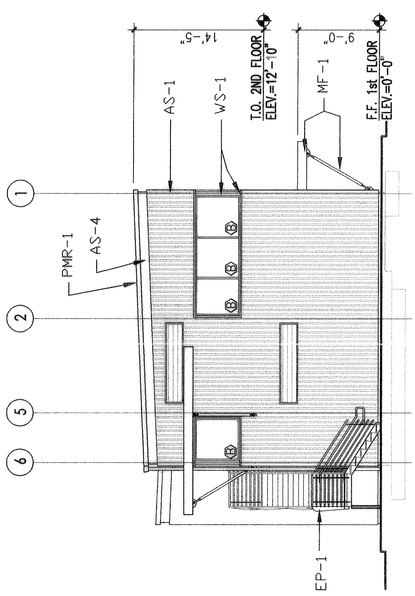
DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'-0"

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

6321-17

16'
8'
4'
2'
0



2 EAST ELEVATION
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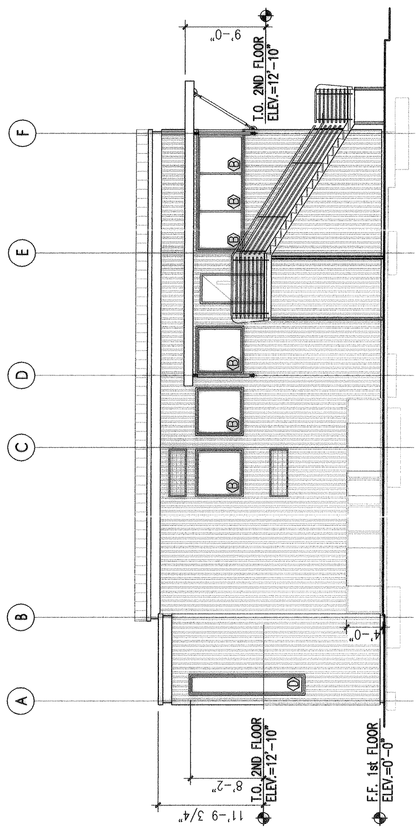
PEC E2164A_2-EL-01.DWG



4 SOUTH ELEVATION
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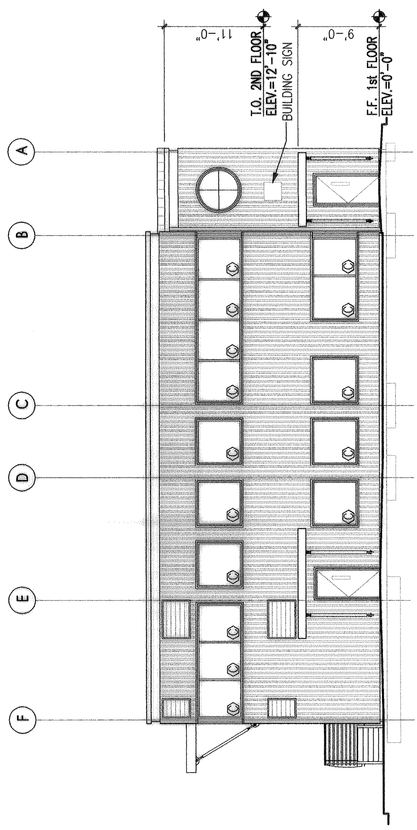

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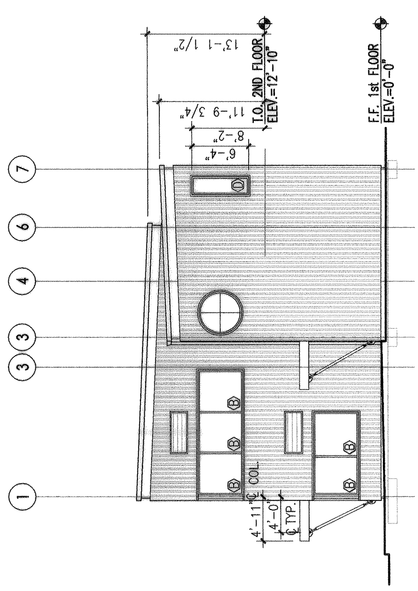
PEC E2164A_2-EL-01.DWG



3 WEST ELEVATION
SCALE: 1/8"=1'-0"
PEC E2164A_2-EL-01.DWG

1	BUILDING SECTION			2	STAIR SECTION		
	SCALE: 1/4"=1'-0"	PEC	E2164A_2-BS-01.DWG		SCALE: 1/4"=1'-0"	PEC	E2164A_2-BS-01.DWG

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PORT OF TACOMA
USA

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RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY – DATE 8/22/03

LC PROJECT ENGR.– DATE 8/22/03

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/4" = 1'-0"

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

EP-~~5661-17~~

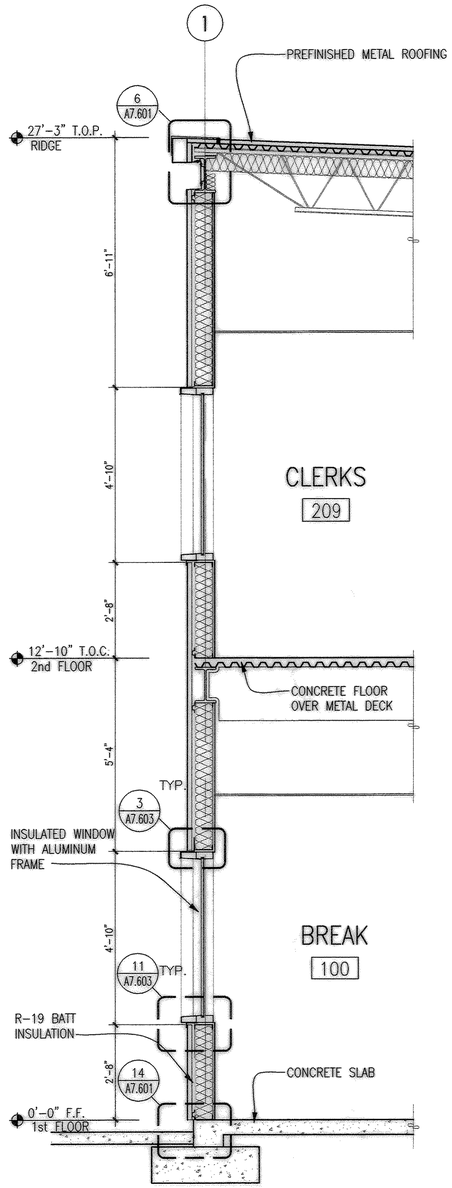
A3.400

SHEET 63 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

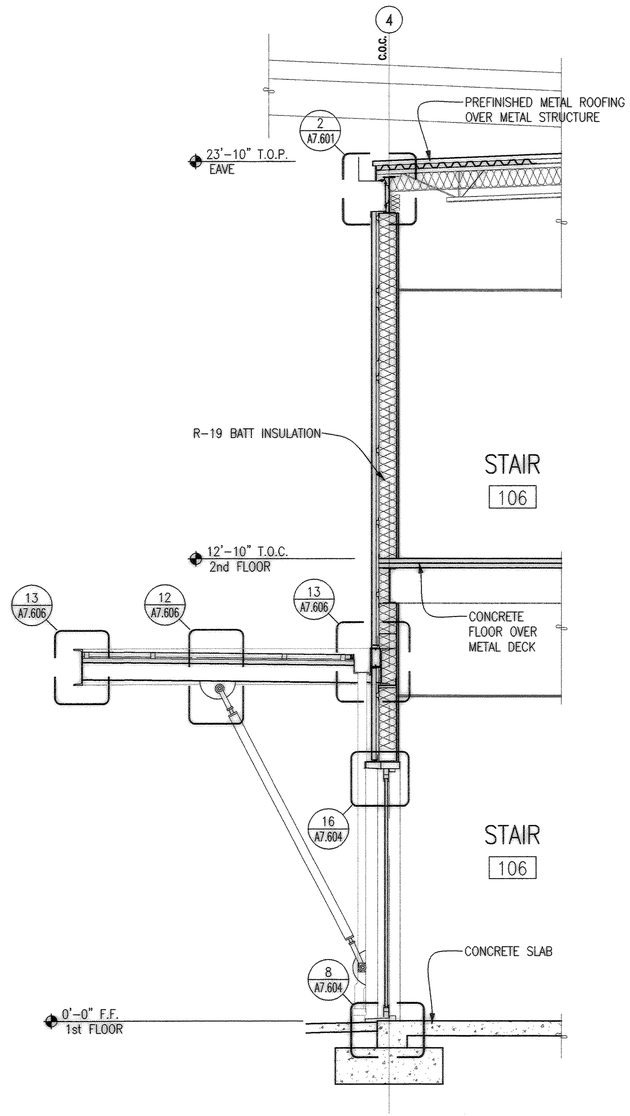
6321-17

1' 4'
0 2' 8'



1 WALL SECTION

SCALE: 1/8"=1'-0" | PEC | E2164A_2-EL-01.DWG



2 WALL SECTION

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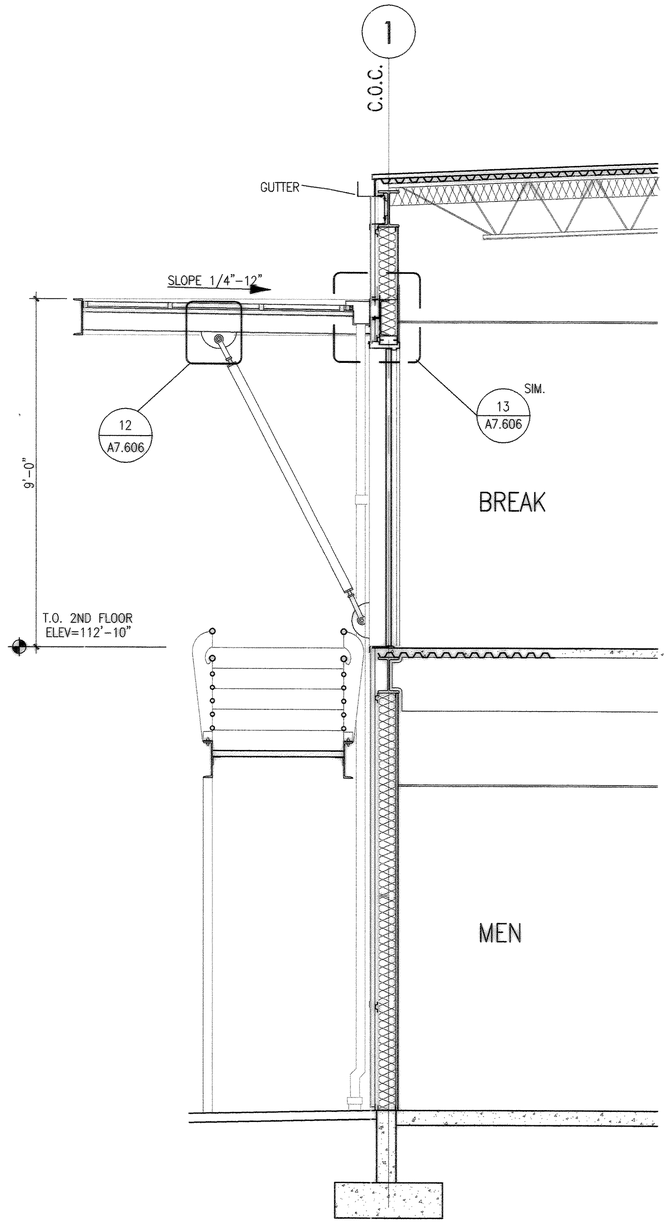

3 WALL SECTION

SCALE: 1/8"=1'-0" | PEC | E2164A_2-EL-01.DWG

1/2" 2"
0 1' 4'

6321-17

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TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/2" = 1'-0"

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING

EP-~~555-17~~

SHEET 64 OF 230

A3.500

FILE NUMBER:C:\FILES\FILENAME.DWG

CODES AND STANDARDS

1. UNIFORM BUILDING CODE (UBC) 1997 AS ADOPTED AND AMENDED BY THE TACOMA BUILDING DEPARTMENT AND STATE OF WASHINGTON.
2. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 2002 EDITION.
3. ACI, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES 2002 EDITION.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), ALLOWABLE STRESS DESIGN, NINTH EDITION.
5. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND MANUAL OF STEEL CONSTRUCTION, THIRD EDITION.
6. AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDING, 2002 EDITION.
7. AMERICAN WELDING SOCIETY (AWS) CODES, STANDARDS, AND SPECIFICATIONS, 2001 EDITION.
8. STEEL DECK INSTITUTE, DESIGN MANUAL AND DIAPHRAGM DESIGN MANUAL, 2001 EDITION.
9. STEEL JOISTS INSTITUTE (SJI), STANDARD SPECIFICATIONS AND LOAD TABLES, FOR STEEL JOISTS AND GIRDERS, 2002 EDITION.
10. STRUCTURAL ENGINEERS ASSOCIATION OF WASHINGTON SNOW LOAD MANUAL.

GENERAL

1. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND/OR CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, VERIFYING SIZE AND LOCATION OF ALL MECHANICAL AND ELECTRICAL OPENINGS WITH THE RESPECTIVE SUBCONTRACTOR, AS WELL AS COORDINATING ALL INSERTS AND ATTACHMENTS FOR THE USE OF OTHER TRADES.
2. ALL SHOP DRAWINGS FOR THE REINFORCING STEEL, STRUCTURAL STEEL, METAL DECK, AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.
3. THE BUILDING FRAME (FOUNDATIONS, WALLS, FLOORS, AND ROOF SYSTEM) HAS BEEN DESIGNED TO WITHSTAND THE DESIGN LOADS WITHOUT EXCEEDING ALLOWABLE STRESSES. CONTRACTOR SHALL TEMPORARILY BRACE INCOMPLETE PARTS OF THE STRUCTURE UNTIL SUCH TIME AS BUILDING FRAME AS A WHOLE IS COMPLETE.

STRUCTURAL CONCEPT

1. VERTICAL LOADS (GRAVITY) ARE CARRIED BY A COMPOSITE METAL DECK ACTING COMPOSITELY WITH THE STEEL BEAMS AND GIRDERS SUPPORTED BY STEEL COLUMNS. THE COLUMNS DELIVER THEIR REACTIONS TO CONCRETE FOUNDATIONS. THE VERTICAL LOAD-CARRYING FRAME IS COMPLETE.
2. LATERAL LOADS (SEISMIC) ARE CARRIED BY THE FLOOR ACTING AS DIAPHRAGMS SUPPORTED BY BRACED FRAMES. THE BRACED FRAMES DELIVER THEIR LOADS (SHEAR AND OVERTURNING MOMENTS) TO THE FOUNDATIONS.

DESIGN LOADS

1. ROOF SNOW LOAD — 25 PSF
2. LIVE LOADS (UBC '97)
   - ROOF LIVE LOAD — 20 PSF
   - OFFICE — 50 PSF
   - PARTITIONS — 20 PSF
   - WALKWAYS AND STAIRS — 100 PSF
3. LIVE LOAD REDUCTION: PER UBC SECTION 1607.5
4. DEAD LOADS: ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION
5. SEISMIC LOAD PER UBC 97
   - V (BASE SHEAR) = (2.5 Ca I/R) W — 0.14 W
   - Z (ZONE 3) — 0.30
   - I — 1.00
   - R BUILDING FRAME SYSTEM WITH SPECIAL CONCENTRICALLY BRACED FRAMES — 6.4
   - C_a — 0.36
   - SOIL PROFILE TYPE — Se
6. WIND LOAD PER UBC 97 USING METHOD I
   - P = Ce x Cq x q_s x Iw
   - BASIC WIND SPEED IS — 80 mph
   - EXPOSURE — B
   - Ce — PER TABLE 16-G UBC '97
   - Cq — PER TABLE 16-H UBC '97
   - q_s — PER TABLE 16-F UBC '97
   - Iw — 1.0

STRUCTURAL CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE STANDARD 301 (ACI 301), "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." THE CONTRACTOR SHALL KEEP A COPY ON SITE FOR REFERENCE.
2. ALL STRUCTURAL CONCRETE SHALL HAVE AGGREGATES CONFORMING TO ASTM C 33 AND SHALL HAVE AN APPROVED WATER-REDUCING, NON-AIR-ENTRAINING, ADMIXTURE ADDED AS RECOMMENDED BY THE MANUFACTURER.
3. DESIGN MIXES FOR THE FOLLOWING CLASSES OF CONCRETE, INCORPORATING CEMENT OF ONE BRAND THROUGHOUT, TOGETHER WITH THE REQUIRED ADMIXTURE, SHALL BE PROPORTIONED TO METHOD 1 OR METHOD 2, PER ACI 301, FOR A SLUMP IN INCHES LESS THAN THE MAXIMUM FOR EACH CLASS THAT IS TABULATED. THE MIXES SHALL BE TESTED AND APPROVED PRIOR TO USE.

CONC CLASS	LOCATION	MIN COMPR. STRENGTH AT 28 DAYS	MIN CEMENT CONTENT 94lb SACKS PER CU YD	MAX W/C RATIO ...	MAX SLUMP INCH	MIN AIR CONTENT (% VOL) ...
1	ALL OTHER	4,000 PSI	6 1/2	.45	4	SEE NOTE BELOW
2	EXTERIOR SOG AND PVMT	4,000 PSI	6 1/2	.4	3	5 1/2 (±1 1/2)

AIR ENTRAINMENT PER POT SPECIFICATIONS.
THE MAXIMUM ALLOWABLE WATER/CEMENT (W/C) RATIO FOR CONCRETE CLASSES INDICATED ABOVE SHALL ACCOUNT FOR WATER FROM ALL SOURCES, INCLUDING ADMIXTURES AND THE MOISTURE CONTENT OF THE FINE AGGREGATE.
MIX DESIGNS MAY BE PROPORTIONED ESPECIALLY FOR PUMPING SO AS NOT TO EXCEED THE MAXIMUM SLUMP TABULATED FOR EACH CLASS WHEN MEASURED AT THE FORMS.
APPROVED MIX DESIGNS SHALL NOT BE MODIFIED TO SUIT PUMPING BY THE ADDITION OF WATER.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.
5. WELDED FABRIC SHALL CONFORM TO ASTM A 185.
6. CONSTRUCTION JOINTS SHALL BE PROVIDED AS DETAILED ON THE DRAWINGS. THE LOCATIONS AND TYPES OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER IN ADVANCE. JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE TREATED IN A MANNER SO AS TO COMPENSATE FOR THE LOSS OF STRENGTH AS FOLLOWS:
   - A. FORMED JOINTS SHALL HAVE 3/4-IN. DEEP INTERMITTENT KEYS, COVERING AT LEAST ONE-THIRD OF THE TOTAL JOINT SURFACE AREA.
   - B. POUR TERMINATION JOINTS SHALL BE LEFT CLEAN AND ROUGH, WITH AN AVERAGE ROUGHNESS OF 1/4-IN. MINIMUM.
   - C. DETAILED REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS, UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS.
   - D. EXTRA REINFORCEMENT SHALL BE ADDED THROUGH CONSTRUCTION JOINTS IN THE AMOUNT OF 0.21% OF THE TOTAL JOINT SURFACE AREA, AND SHALL BE ANCHORED FOR TENSION TO EACH SIDE OF THE JOINT.
   - E. BOND NEW CONCRETE TO HARDENED CONCRETE WITH APPROVED BONDING AGENT. APPLY IN ADVANCE OF CONCRETE POUR TO CAREFULLY CLEANED CONCRETE SURFACES.
   - E. SEAL ALL JOINTS EXPOSED TO GROUNDWATER, EARTH OR EXPOSED TO WEATHER INCLUDING SLAB-TO-SLAB AND SLAB TO-WALL. FORM A CONTINUOUS 3/4-IN. DEEP V-GROOVE OR SQUARE RECESS ALONG THE EXPOSED FACE OF JOINT U.N.O. SANDBLAST, PRIME, AND SEAL WITH AN APPROVED POLYURETHANE SEALANT THAT IS COMPATIBLE WITH THE SPECIFIED DAMPPROOFING.
   - E. IN CASES WHERE JOINTS CAN BE SHOWN NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE, THE STRUCTURAL ENGINEER MAY RELAX THESE REQUIREMENTS.
7. NO REINFORCING MAY BE WELDED EXCEPT BY APPROVAL OF THE ENGINEER PRIOR TO CONSTRUCTION. IF, FOR ANY REASON, AN ARC IS CREATED BETWEEN REINFORCING AND WELDING ELECTRODE, THE REINFORCING MUST BE REPLACED.
8. LAP SPLICES OF REINFORCEMENT: UNLESS NOTED OTHERWISE, SPLICES SHALL BE AS FOLLOWS:
   BARS #8 OR SMALLER – 40xDIA
   #9 OR LARGER – 50xDIA
9. REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR ALL INSERTS, GROOVES, ETC., TO BE CAST IN CONCRETE AND FOR LOCATION OR PIPES, DUCTS, CONDUITS, ETC.
10. FOR CHAMFERS, REGLETS, REVEALS AND RECESSES, SEE ARCHITECTURAL DRAWINGS.
11. ALL CONCRETE FLOORS, INCLUDING SLAB-ON-GRADE WITHIN THE BUILDING, SHALL RECEIVE CONCRETE SEALER.
12. CONCRETE SHALL NOT BE CAST WHEN THE AMBIENT OUTSIDE TEMPERATURE IS 40° F OR LESS. CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 24 HOURS AFTER CASTING. COLD WEATHER PLACING OF CONCRETE SHALL BE PERMITTED IF IF A PROCEDURE, COMPLYING WITH ACI 306.1-87, IS SUBMITTED TO AND APPROVED BY THE BUILDINGS DIVISION.

NON SHRINK GROUT

GROUT SHALL BE NONSHRINKABLE GROUT CONFORMING TO ASTM C 1107 AND CRD-621, CORPS OF ENGINEERS "SPECIFICATIONS FOR NON SHRINK GROUT." GROUT SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS OF 5000 PSI. PREGROUTING OF BASE PLATES WILL NOT BE PERMITTED.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON:
   A. GEOTECHNICAL REPORTS PREPARED BY GEO ENGINEERS DATED JANUARY, 2003 AND FEBRUARY, 2003 AND AS AMENDED IN LETTER DATED MARCH 10TH, 2003.
   B. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THESE REPORTS.
2. ALL SOIL FILL OR BACKFILL MATERIAL SUPPORTING SLABS, FOUNDATIONS, OR STRUCTURE SHALL BE STRUCTURAL FILL AND MUST BE APPROVED FOR USE BY THE ENGINEER. STRUCTURAL FILL FOR FLOOR SLABS AND BACKFILL OF RETAINING WALLS IS TO BE COMPACTED TO A DENSE UNYIELDING SURFACE OF 95% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY. ALL STRUCTURAL FILL IS TO BE PLACED IN 12-IN. MAXIMUM LOOSE, LEVEL, UNIFORM LIFTS IN PREPARATION FOR COMPACTION. DO NOT BACKFILL AGAINST WALLS UNTIL THE SUPPORTING FLOORS ARE CAST AND CURED.
3. BACKFILL FOR WALLS SHALL CONSIST OF FREE DRAINING GRANULAR MATERIAL, ESSENTIALLY FREE FROM VARIOUS TYPES OF WOOD WASTE OR OTHER EXTRANEOUS OR OBJECTIONABLE MATERIALS. IT SHALL CONSIST OF LESS THAN 7% PASSING THE #200 SIEVE OF ALL SAMPLES PASSING THE 3/4" MINUS SIEVE. MINIMUM WIDTH OF FREE DRAINING MATERIAL SHALL BE WIDTH OF EXCAVATION OR 3'-0" WHICHEVER IS LESS.

STRUCTURAL STEEL

1. ALL STEEL CONSTRUCTION SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES 2000 EDITION AND CONFORM TO THE FOLLOWING:

W-SHAPES:	ASTM A992, Fy = 50 KSI
PLATES & FLAT BARS:	ASTM A572, GRADE 50 Fy = 50 KSI
OTHER STRUCTURAL STL SHAPES:	ASTM A36, Fy = 36 KSI
PIPE:	ASTM A53 GRADE B, Fy = 35 KSI
TUBE:	ASTM A500 GRADE B, Fy = 46 KSI
COMPOSITE STEEL DECK:	ASTM 653, GRADE 33
ANCHOR RODS:	ASTM F1554, Fy = 55 KSI
HEADED STUD ANCHORS:	ASTM A108, Fy = 50 KSI (GRADES 1010 TO 1020)

2. WHERE BOLTED CONNECTIONS ARE INDICATED. THEY SHALL BE MADE WITH 3/4-IN. DIAMETER, ASTM A 325, TYPE N BOLTS WITH HARDENED WASHERS CONFORMING TO THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."
3. WELDS AND ELECTRODES SHALL BE IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF AWS AND AISC, SUITABLE TO THE PARTICULAR MATERIALS AND SITUATIONS. USE 70KSI FILLER METAL.
4. WELDERS SHALL BE CERTIFIED BY THE WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO). SUBMIT EVIDENCE OF CERTIFICATION.
5. CAMBER BEAMS AS NOTED ON THE FRAMING PLANS. WHERE NO CAMBER IS NOTED, FABRICATE BEAMS SO THAT THE CAMBER AS ROLLED (WITHIN ALLOWABLE TOLERANCES) IS POSITIVE.
6. PROVIDE MINIMUM 3/16" FILLET WELD OR 3/16" GROOVE WELD ALL AROUND THE MEMBERS BEING CONNECTED WHERE A WELD IS NOT SPECIFICALLY CALLED OUT.
7. ITEMS TO BE HOT-DIPPED GALVANIZED:
   - A. UNLESS NOTED OTHERWISE, ALL CONCRETE ACCESSORIES OF FERROUS MATERIAL INCLUDING: INSERTS, EMBEDMENTS, BRACKETS.
   - B. PIPE GUARDS, BOLLARDS AND HARDWARE FOR SAME.
   - C. WHERE NOTED AS "GA" OR "GALV." OR "GAL."
8. LOCATIONS OF ALL EMBEDDED ITEMS SHALL BE COORDINATED WITH VENDOR'S SHOP DRAWINGS.

LIGHT GAGE STEEL FRAMING

1. THE COLD-FORMED STRUCTURAL FRAMING SHALL BE MANUFACTURED FROM STRUCTURAL QUALITY STEEL HAVING MINIMUM YIELD STRENGTH OF 33 KSI, FOR ALL GAUGES, OR OPTIONAL 50 KSI FOR 16 GA AND HEAVIER AND HAVE MINIMUM PROTECTION COATING EQUAL TO G-60 GALVANIZED FINISH. THE STEEL SHALL CONFORM TO ONE OF THE FOLLOWING ASTM STANDARDS: ASTM A 653, ASTM A 875, ASTM A 792 OR ASTM A 463.
2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" 1996 EDITION.
3. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON. CALCULATIONS FOR LIGHT GAGE FRAMING TO VERIFY SIZES, GAGES, AND SPACING OF MEMBERS AND CONNECTIONS. DRAWINGS SHALL SHOW SIZE, THICKNESS, LAYOUT, CONNECTIONS, MATERIAL DESIGNATION, METHOD OF INSTALLATION AND ACCESSORIES.
4. ALL COMPONENTS AND CONNECTIONS SHALL BE DESIGNED ACCORDING TO THE CODES LISTED AND ADDITIONAL LOADS SHOWN ON THE DRAWINGS. MEMBER SIZES SHOWN ON THE DRAWINGS ARE FOR REFERENCE AS A MINIMUM AND SHALL BE VERIFIED.
5. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDING SHALL CONFORM TO AWS SPECIFICATIONS AND ALL WELDERS SHALL BE CERTIFIED FOR LIGHT GAUGE STEEL AWS SPECIFICATIONS.
6. PROVIDE ALL ACCESSORIES INCLUDING BUT NOT NECESSARILY LIMITED TO TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.

METAL ROOF OR FLOOR DECKING

1. ALL METAL DECKING SHALL CONFORM TO THE PROVISION OF THE AMERICAN IRON AND STEEL INSTITUTE'S "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
2. METAL FLOOR DECKING SHALL BE 2"x20 GA COMPOSITE TYPE, WITH G60 GALVANIZING HAVING MINIMUM SECTION PROPERTIES PER FT OF WIDTH (BASED ON VERCO W2 FORMLOK)
   S+ = .361 IN^3
   S– = .370 IN^3
   I = .423 IN^4
3. FASTENING OF 3" FLOOR DECK TO BE:
   - A. (4)-⅝" DIA PUDDLE WELDS PER FULL 3'-0" SHEET WIDTH AT TRANSVERSE SUPPORTS.
   - B. SIDE LAPS: BUTTON PUNCHING AT 3'-0" MAXIMUM OC.
   - C. FLOOR DECKING LAID PARALLEL TO SUPPORTING WALLS OR FRAMES SHALL BE CONNECTED WITH ⅝". FUSION WELDS AT 12 IN. O.C.
4. 1 1/2"x20 GA METAL ROOF DECKING SHALL HAVE MINIMUM SECTION PROPERTIES PER FT OF WIDTH (BASED ON VERCO HSB-36)
   S+ = .235 IN^3
   S– = .248 IN^3
   I = .216 IN^4
5. FASTENING OF 1 1/2" TYPE HSB DECK TO BE:
   - A. (7) – ⅝" DIA PUDDLE WELDS PER FULL 3'-0" SHEET WIDTH AT TRANSVERSE SUPPORTS.
   - B. SIDE LAPS: BUTTON-PUNCHING AT 2'-0" MAXIMUM O.C.
   - C. ROOF DECKING LAID PARALLEL TO SUPPORTING WALLS OR FRAMES SHALL BE CONNECTED WITH ⅝". FUSION WELDS OR HILTI X-EDNK22-THQ12 FASTENERS AT 12 IN. O.C.
6. 3"x20 GA. METAL ROOF DECKING SHALL HAVE MINIMUM SECTION PROPERTIES PER FT OF WIDTH (BASED ON VERCO N-24)
   S+ = .502 IN^3
   S– = .562 IN^3
   I = .837 IN^4
7. FASTENING OF 3" ROOF DECK TO BE:
   - A. (4)-⅝" DIA PUDDLE WELDS OR (4)-HILTI X-EDNK22-THQ12 FASTENERS PER FULL 2'-0" SHEET WIDTH AT TRANSVERSE SUPPORTS.
   - B. SIDE LAPS: BUTTON PUNCHING AT 1'-0" MAXIMUM OC.
   - C. ROOF DECKING LAID PARALLEL TO SUPPORTING WALLS OR FRAMES SHALL BE CONNECTED WITH ⅝". FUSION WELDS OR HILTI X-EDNK22-THQ12 FASTENERS AT 12 IN. O.C.

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RECORD DRAWINGS

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DRAWING SCALE:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
GENERAL NOTES

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OPEN WEB STEEL JOISTS

1. ALL STEEL JOIST DESIGN, MANUFACTURE AND ERECTION SHALL CONFORM TO STEEL JOIST INSTITUTE SPECIFICATION.
2. ALL ACCESSORIES, BRIDGING AND HEADERS, ETC. SHALL BE PROVIDED AS REQUIRED TO PROVIDE A COMPLETE SYSTEM FOR SUPPORT OF DECKING MATERIAL.
3. ALL JOISTS SHALL BE CONNECTED TO SUPPORTING MEMBERS WITH 3/16 FILLET WELDS 2 INCHES IN LENGTH EACH SIDE OF JOIST, UNLESS NOTED OTHERWISE.
4. ALL WELDERS SHALL BE CERTIFIED TO AWS STANDARDS.
5. DRILLED, SCREWED, OR WELDED CONNECTIONS SHALL NOT BE MADE ON JOISTS OR GIRDERS UNLESS EXPLICITLY SHOWN ON THE STRUCTURAL DRAWINGS.
6. OWSJ SHALL BE DESIGNED TO RESIST ADDITIONAL LOADS DUE TO THE FALL ARREST SYSTEM AT ROOF. COORDINATE LOCATION AND MAGNITUDE WITH FALL ARREST SYSTEM SUPPLIER PRIOR TO DESIGN AND FABRICATION.

SPECIAL INSPECTION

A SPECIAL INSPECTOR, REGISTERED BY THE WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO), RESPONSIBLE TO THE OWNER, AND APPROVED BY THE ENGINEER, SHALL PROVIDE INSPECTION OF THE CONSTRUCTION.
IN ADDITION TO, OR IN ACCORDANCE WITH, THE REQUIREMENTS OF THE UBC CHAPTER 17, THE DUTIES OF A SPECIAL INSPECTOR SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING:

1. FORMS: TRUE TO LINE, TIGHT, AND FREE OF DEBRIS.
2. REINFORCING OF THE SIZE AND QUANTITY CALLED FOR ON THE DESIGN DRAWINGS, TIED, BRACED, OR SUPPORTED SECURELY IN POSITION WITH PROPER COVER AND CLEARANCE. RUNWAYS ARE NOT TO BE SUPPORTED OFF REINFORCING.
3. SLUMP AND CYLINDER TESTS AT THE RATE OF ONE FOR EACH 100 YARDS OF CONCRETE PLACED OR FRACTION THEREOF, WITH
   A MINIMUM OF ONE TEST FOR EACH DAY'S WORK. NOTE: THREE CYLINDERS ARE REQUIRED FOR EACH TEST.
4. AIR CONTENT: FREQUENT DETERMINATION OF THE ENTRAINED AIR CONTENT SHALL BE MADE AT THE FORMS, ONE TEST FOR EACH THIRD TRUCK MINIMUM.
5. COLLECT DELIVERY TICKETS TO INCLUDE (ALSO TO BE ON TEST REPORT):
   A. NAME OF BATCH PLANT
   B. SERIAL NUMBER OF TICKET
   C. DATE AND TRUCK NUMBER
   D. NAME OF CONTRACTOR
   E. SPECIFIC NAME OF JOB
   F. SPECIFIC DESIGNATION OF CONCRETE (I.E., MIX NO. 1, 5 SACK)
   G. AMOUNT OF CONCRETE
   H. TIME LOADED ON
   I. TIME OF MIXING 1-1/2 HOURS OR 300 REVOLUTIONS MAXIMUM
   J. SLUMP
6. WELDING: VERIFY THAT THE WELDER IS CERTIFIED BY WABO, THAT THE PROPER ELECTRODES IN OVEN-DRY CONDITIONS ARE BEING USED, AND THAT PROPER METHODS AND PREPARATIONS ARE USED.
   A. ALL WELDS SHALL BE CHECKED VISUALLY.
   B. ALL SHOP AND FIELD WELDING SHALL BE SUBJECT TO INSPECTION BY A WABO REGISTERED WELDING INSPECTOR ENGAGED BY THE OWNER. THE INSPECTOR SHALL UTILIZE X-RAY TEST, ULTRASONIC TESTING, MAGNETIC PARTICLE INSPECTION, AND ANY OTHER AID TO VISUAL INSPECTION THAT MAY BE DEEMED NECESSARY TO ASSURE THE ADEQUACY OF THE WELDING. TESTING AND INTERPRETATION WILL BE CARRIED OUT BY THE OWNER AT ANY STAGE AFTER WELDING.
   C. OF ALL FILLET WELDS, 10% SHALL BE CHECKED BY MAGNETIC PARTICLE TESTING.
   D. 100% OF ALL COMPLETE PENETRATION WELDS SHALL BE CHECKED BY RADIOGRAPHIC OR ULTRASONIC TESTING.
   E. ALL WELDS FOUND DEFECTIVE AND REPAIRED SHALL BE REINSPECTED BY SAME METHOD ORIGINALLY USED – COST OF REPAIR AND REINSPECTION TO BE BORNE BY CONTRACTOR.
   F. STANDARDS FOR ACCEPTANCE SHALL BE AS GIVEN IN AWS D1.1
7. STRUCTURAL STEEL CONNECTIONS: VERIFY THAT THE PROPER NUMBER AND TYPE OF BOLTS ARE INSTALLED WITH PROPER TORQUE.
8. THE WELD QUALITY OF SHEAR STUD CONNECTORS SHALL BE VERIFIED BY HAMMER TEST ACCORDING TO AMERICAN WELDING SOCIETY, INC., STRUCTURAL WELDING CODE, D1.1
9. SEE UBC CHAPTER 17 FOR REQUIRED SPECIAL INSPECTION REPORTING.

ABBREVIATIONS

ABT	ABOUT
ALT	ALTERNATE
A.R.	ANCHOR ROD
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
BAL	BALANCE
BC	BOTTOM CHORD
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
C	CHANNEL
CGS	CENTER OF GRAVITY OF STEEL
℄	CENTERLINE
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CP	COMPLETE PENETRATION
CTR	CENTER
DIA	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DWG	DRAWING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEV	ELEVATION
EMBD	EMBEDMENT OR EMBEDDED
EXP	EXPANSION
EXT	EXTERIOR
FIN	FINISH
FTG	FOOTING
GA	GAGE
GAL	GALVANIZE
HCA	HEAD CONCRETE ANCHOR
HDW	HARDWARE
HORIZ	HORIZONTAL
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP(S)
L	ANGLE
LB	POUND(S)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OPH	OPPOSITE HAND
OWSJ	OPEN WEB STEEL JOIST
PL	PLATE
P/C	PRECAST
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REF	REFERENCE
REINF	RENFORCE
REQD	REQUIRED
SCHED	SCHEDULE
SECT	SECTION
SIM	SIMILAR
SPA	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
SYMM	SYMMETRICAL
T & B	TOP & BOTTOM
TBF	TRUSS BRACED FRAME
TC	TOP CHORD
THK	THICK
TOPG	TOPPING
TOS	TOP OF STEEL
TRANSV	TRANSVERSE
TS	STRUCTURAL TUBE
T/S	TOP SIDE
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDER SIDE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WP	WORK POINT
&	AND
@	AT
ø	DIAMETER
#	NUMBER

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PORT OF TACOMA
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GENERAL NOTES

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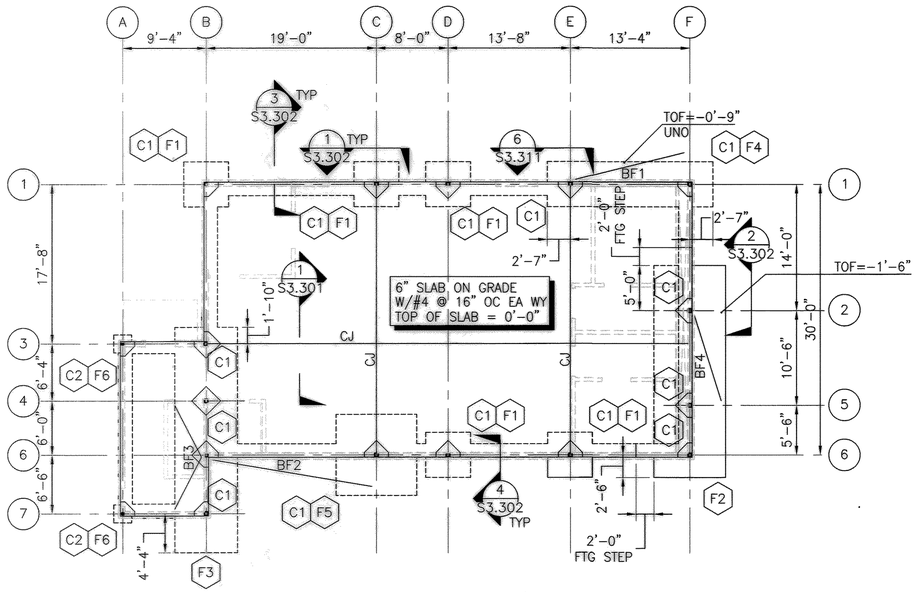
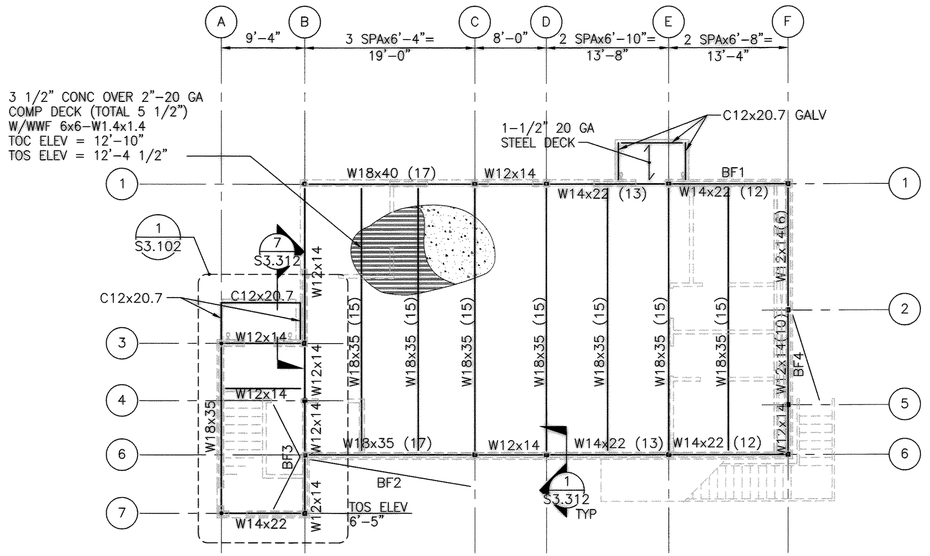
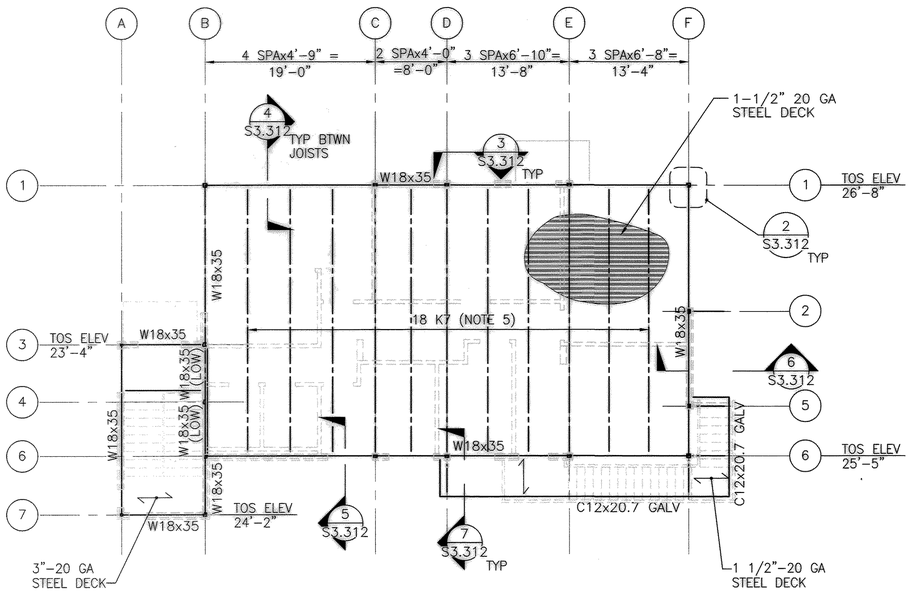


FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



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



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. BF INDICATES BRACED FRAME. SEE S3.201 FOR ELEVATIONS.
2. FOR FLOOR AND ROOF DECK ATTACHMENT SEE GENERAL NOTES SHEET S3.001.
3. FOR TYPICAL COMPOSITE DECK DETAILS SEE S3.321
4. FOR TYP ISOLATION JOINTS AT COLUMN, SEE 4 S3.301
5. DESIGN JOISTS FOR A NET UPLIFT OF 70 PLF.

COLUMN MARK	C1	C2				
COLUMN BASE PLATE (WxLxT) BASE PLATE TYPE ANCHOR RODS (DIAxEMBED) ANCHOR ROD TYPE	TS 5x5x3/8 13"x13"x1" TYPE I (4) 3/4"øx0'-9" TYPE I	TS 4x4x1/4 12"x12"x1" TYPE I (4) 3/4"øx0'-9" TYPE I				
FOUNDATION MARK	F1	F2	F3	F4	F5	F6
FOOTING (WxLxT) REINFORCEMENT TOP OF FOOTING ELEV	5'-0"x 5'-0"x1'-0" #5 @ 12" EW B PER PLAN	8'-0"x 23'-6"x1'-6" #5 @ 12" EW T & B PER PLAN	7'-0"x 25'-0"x1'-6" #5 @ 9" EW T & B PER PLAN	5'-0"x 18'-6"x1'-6" #5 @ 9" EW T & B PER PLAN	9'-0"x 9'-0"x1'-6" #5 @ 12" EW T & B PER PLAN	2'-0"x 2'-0"x1'-0" (3)#4 EW B PER PLAN
NOTES	1	1				

COLUMN/FND SCHEDULE NOTES:

1. FOR BASE PLATE AND ANCHOR ROD DETAILS, SEE 3 S3.301

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PORT OF TACOMA
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MARINE BUILDING
FOUNDATION AND FRAMING PLANS

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S3.101

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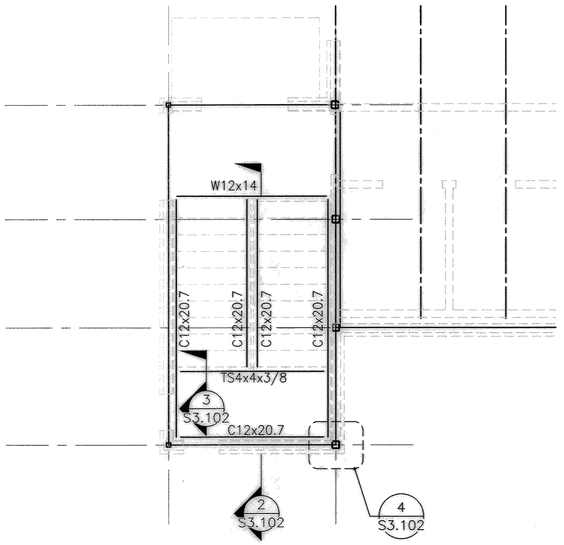
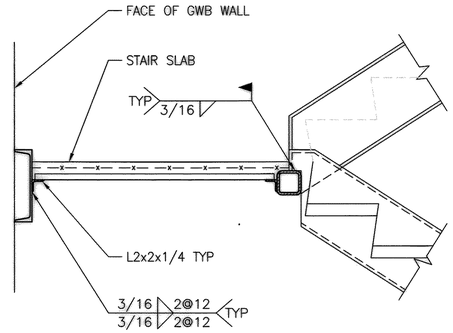
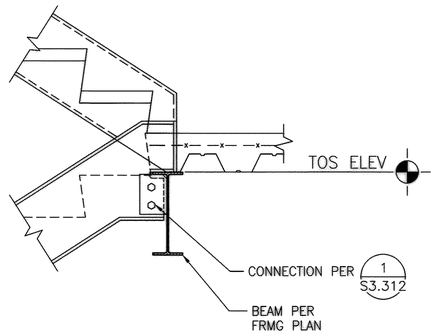
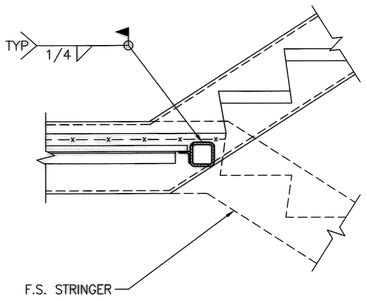


1 S3.102 **STAIR FRAMING PLAN**
SCALE: 1/4"=1'-0"



2 S3.102 **STAIR STRINGER DETAIL**
SCALE: 1" = 1'-0"





3 S3.102 **STAIR STRINGER DETAIL**
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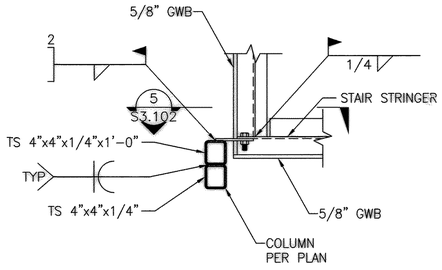

4 S3.102 **STAIR STRINGER DETAIL**
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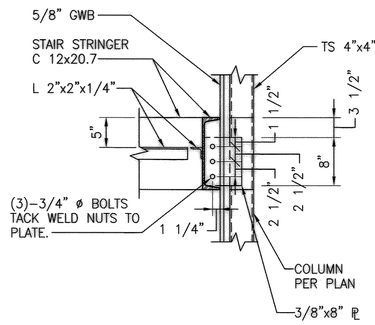

5 S3.102 **SECTION**
SCALE: 1" = 1'-0"

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S3.102

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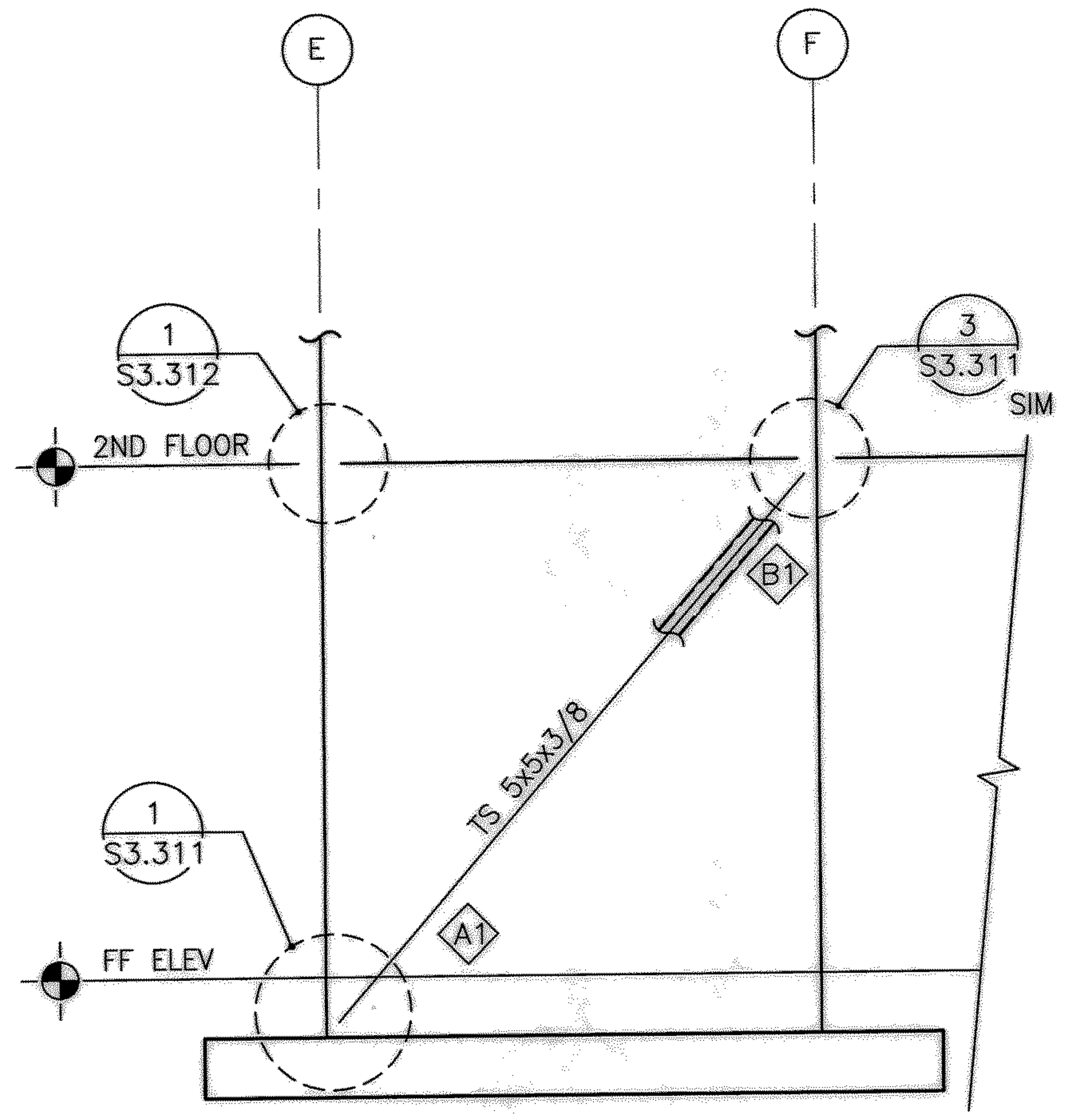

BRACED FRAME BF1
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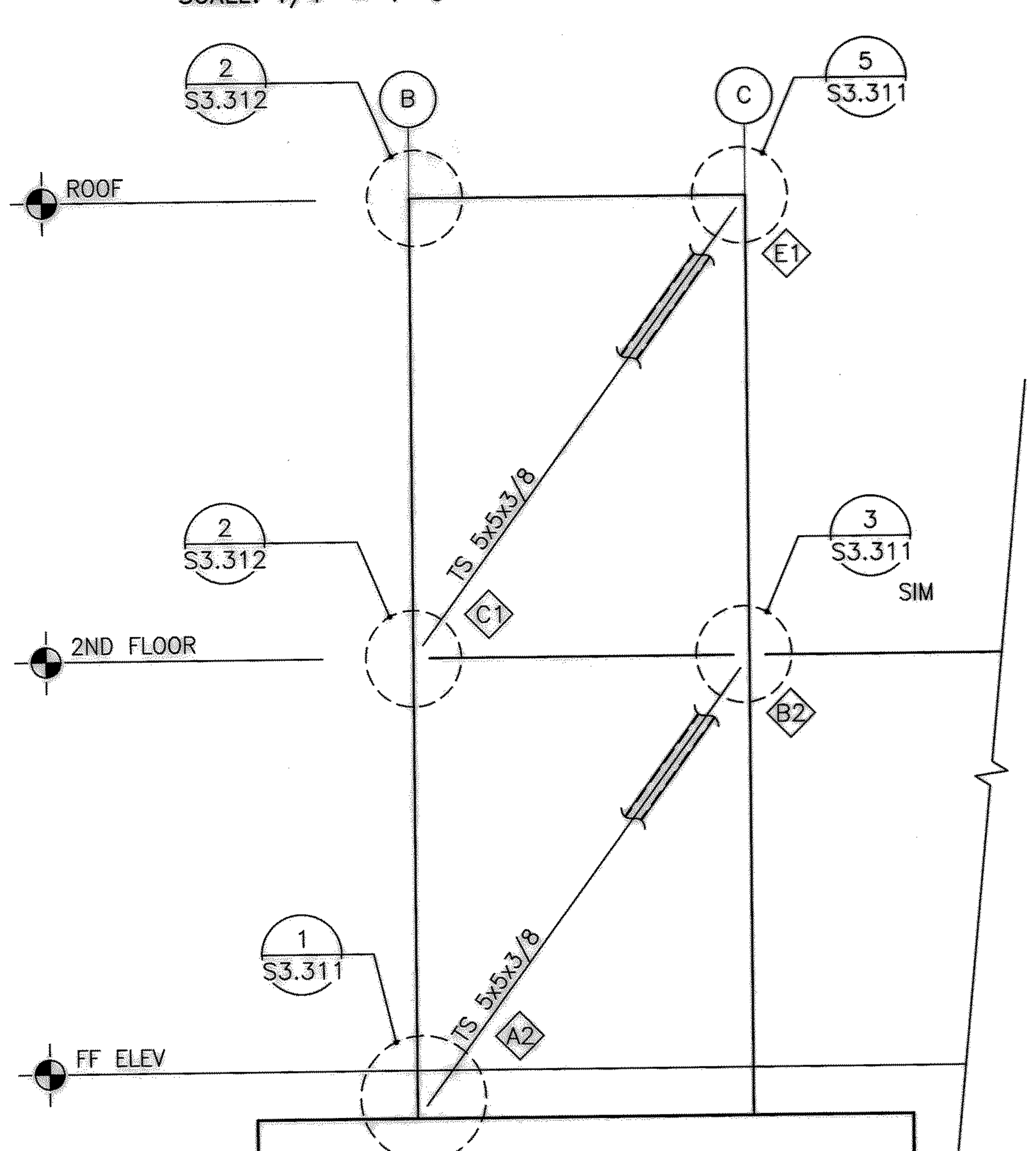

BRACED FRAME BF2
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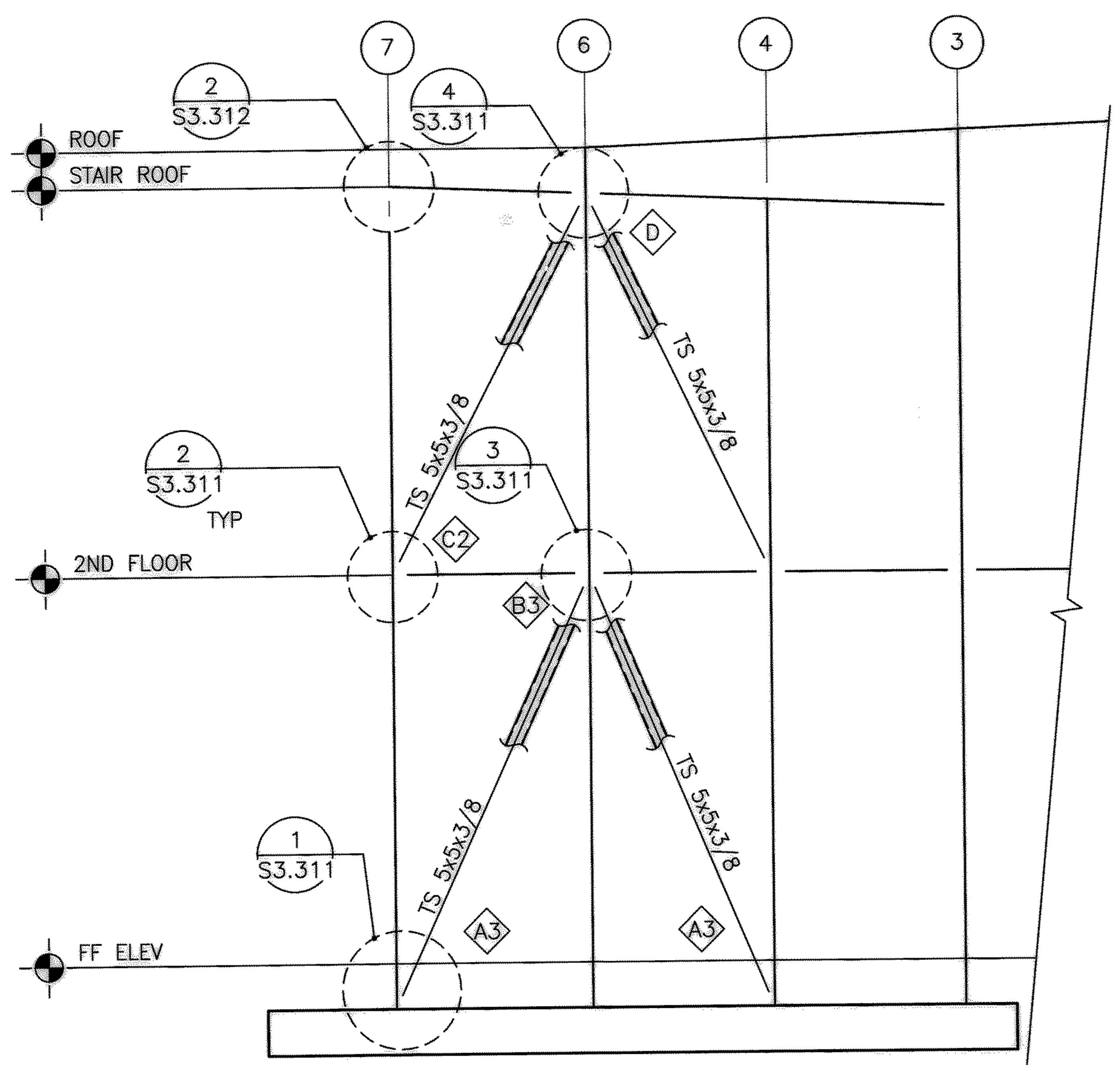

BRACED FRAME BF3
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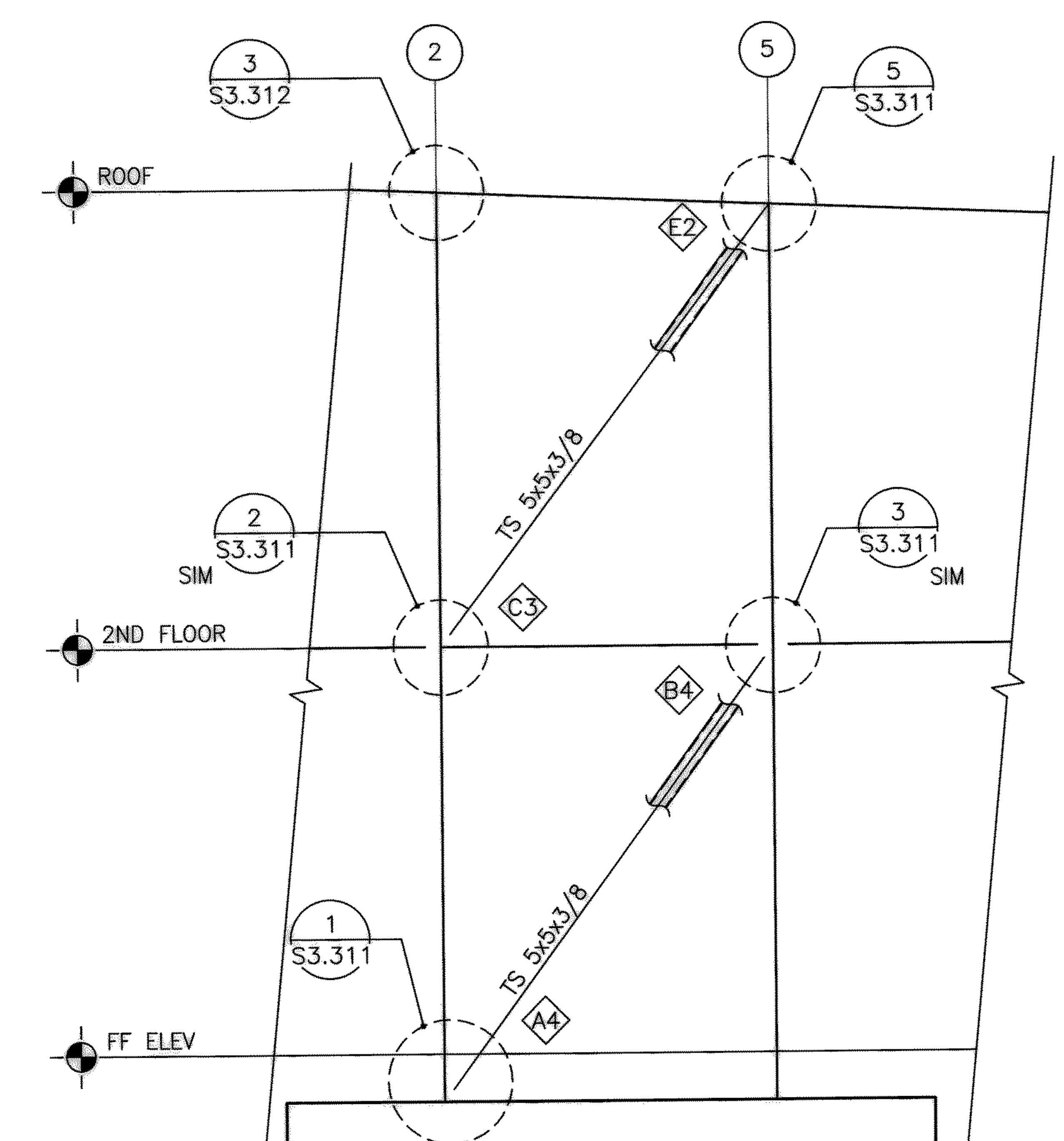

BRACED FRAME BF4
SCALE: 1/4" = 1'-0"

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PORT OF TACOMA
PIERCE COUNTY TERMINAL
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BRACED FRAME ELEVATIONS

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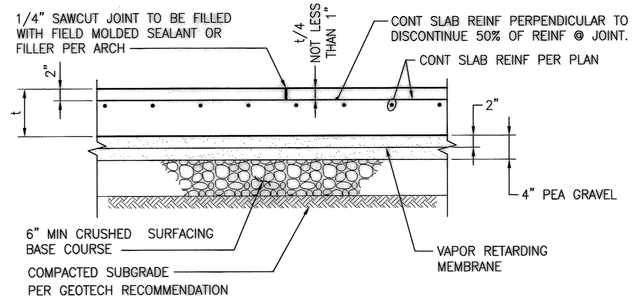
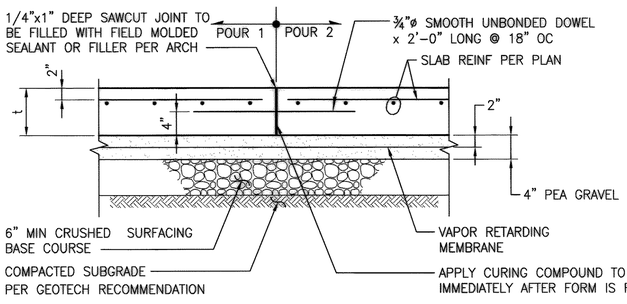


1 S3.301 TYPICAL CONTRACTION JOINT
SCALE: 1" = 1'-0"



2 S3.301 TYPICAL CONSTRUCTION JOINT
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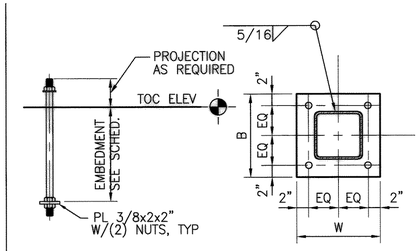

3 S3.301 TYPICAL DETAIL
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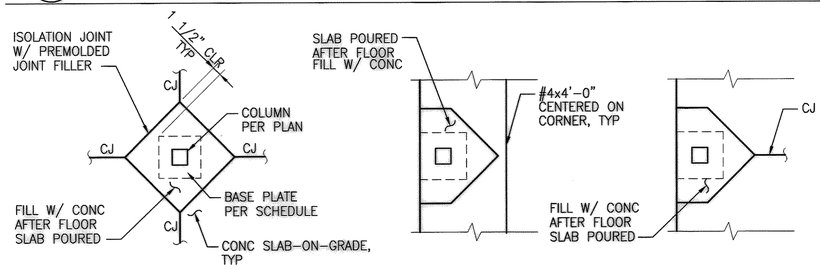
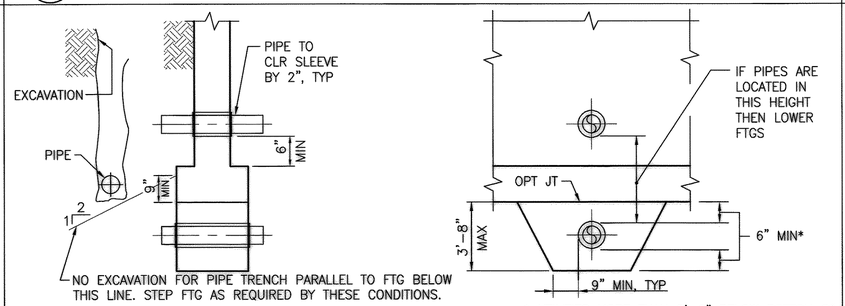


4 S3.301 ISOLATION JOINT @ COLUMN DETAIL
SCALE: NTS



5 S3.301 PIPE THROUGH CONC DETAIL
SCALE: 1" = 1'-0"

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RECORD DRAWINGS

APPROVED

SENIOR DIRECTOR OF FACILITY DEVELOPMENT		DATE
DRAWING DATE: 12/20/04		
PORT ADDRESS:		
PORT PARCEL:		

RNZ	08/22/03
CHECKED BY -	DATE
LY	08/22/03
PROJECT ENGR.-	DATE

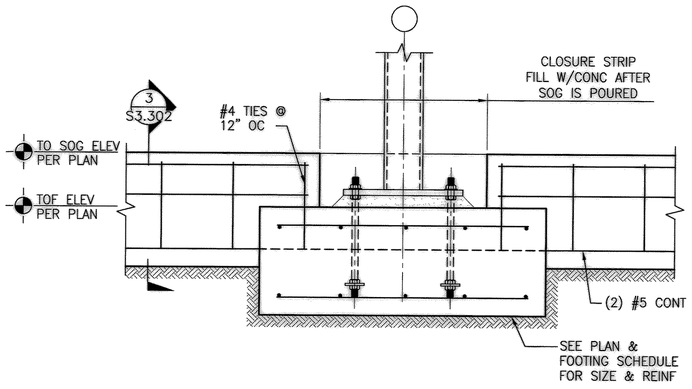
PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
FOUNDATION DETAILS AND SCHEDULES

EP 6321-17

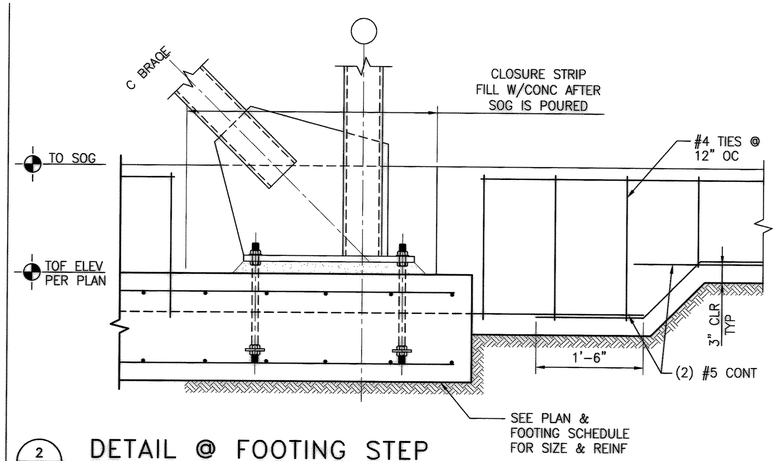
S3.301
SHEET 70 OF 230

TOWNSHIP:	RANGE:	SECTION:
DATUM: HORIZ:		VERT:
DRAWING SCALE:		

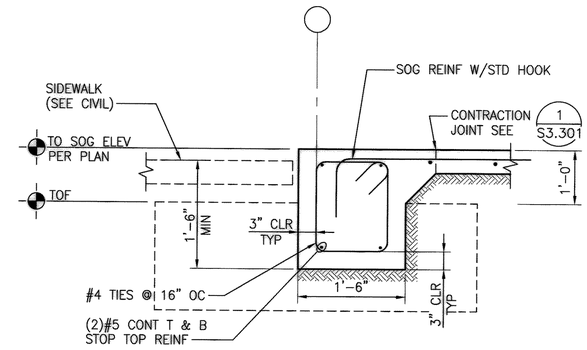
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS



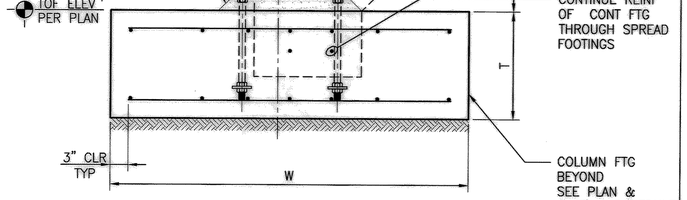
1 S3.302 **TYPICAL DETAIL**
SCALE: 1" = 1'-0"



2 S3.302 **DETAIL @ FOOTING STEP**
SCALE: 1" = 1'-0"



3 S3.302 **TYP EXT WALL FOUNDATION DETAIL**
SCALE: 1" = 1'-0"



4 S3.302 **EXT COLUMN FOUNDATION DETAIL**
SCALE: 1" = 1'-0"

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PORT OF TACOMA
TACOMA, USA

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RECORD DRAWINGS

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CONTRACT NUMBER: 998154
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SHEET 71 OF 230

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
FOUNDATION DETAILS AND SCHEDULES

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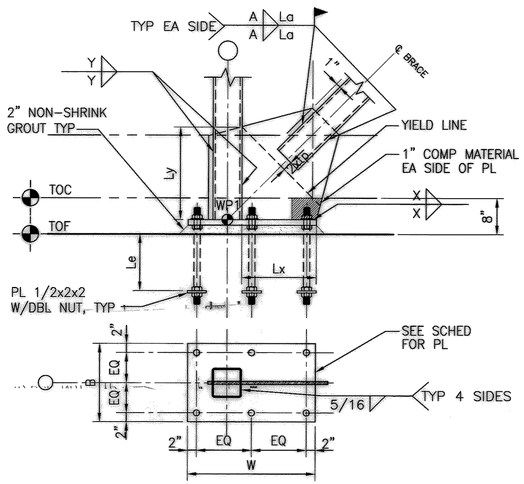
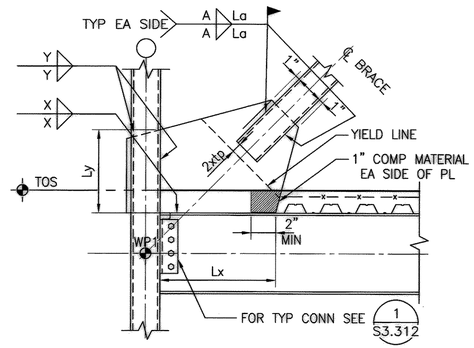


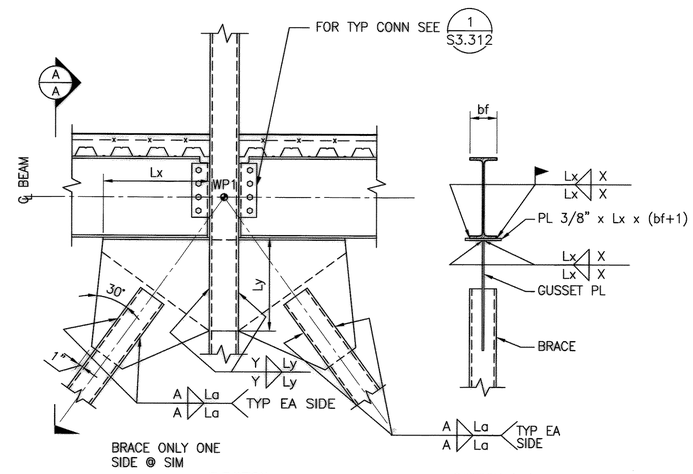
CONNECTION SCHEDULE									
CONN TYPE	GUSSET PL THK	WELD SIZE(X)	WELD Lx	WELD SIZE(Y)	WELD Ly	WELD SIZE(A)	WELD La	BASE PL (BxWxt)	ANCHOR BOLTS (No-øxEMBED)
A1	5/8"	5/16"	1'-5"	5/16"	1'-10"	5/16"	12"	1"x1'-0"x2'-2"	(6) 1"x1'-2"
A2	5/8"	5/16"	2'-1"	5/16"	1'-8"	5/16"	12"	1"x1'-0"x2'-10"	(6) 1"x1'-2"
A3	5/8"	5/16"	0'-10"	5/16"	2'-4"	5/16"	12"	1"x1'-0"x1'-7"	(6) 1"x1'-2"
A4	5/8"	5/16"	1'-3"	5/16"	2'-0"	5/16"	12"	1"x1'-0"x2'-0"	(6) 1"x1'-2"

1 S3.311 GUSSET PLATE DETAIL
SCALE: 3/4" = 1'-0"



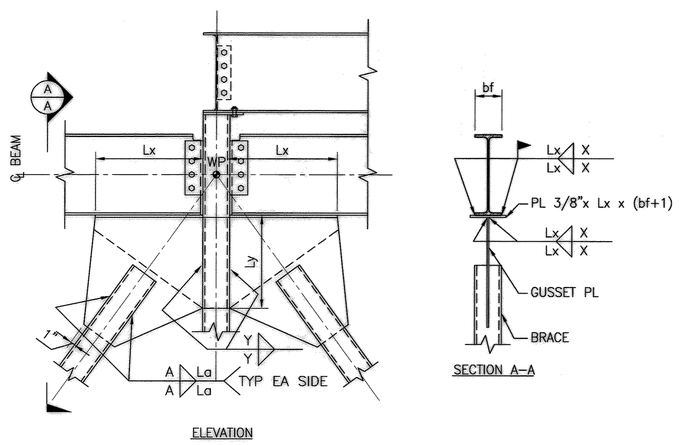
CONNECTION SCHEDULE							
CONN TYPE	GUSSET PL THK	WELD SIZE(X)	WELD Lx	WELD SIZE(Y)	WELD Ly	WELD SIZE(A)	WELD La
C1	5/8"	1/4"	3'-2"	1/4"	1'-0"	5/16"	12"
C2	5/8"	5/16"	1'-4"	5/16"	2'-0"	5/16"	12"
C3	5/8"	5/16"	1'-6"	5/16"	1'-4"	5/16"	12"

2 S3.311 GUSSET PLATE DETAIL
SCALE: 3/4" = 1'-0"



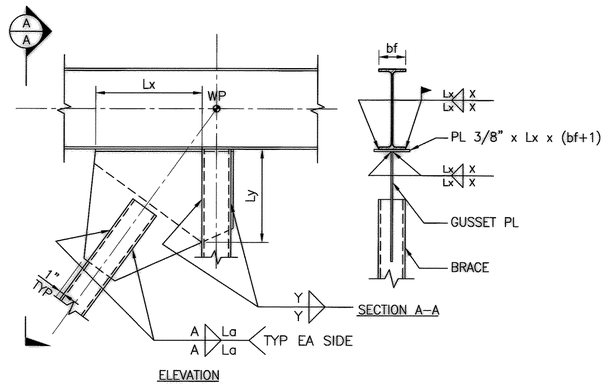
CONNECTION SCHEDULE							
CONN TYPE	GUSSET PL THK	WELD SIZE(X)	WELD Lx	WELD SIZE(Y)	WELD Ly	WELD SIZE(A)	WELD La
B1	5/8"	5/16"	2'-1"	5/16"	1'-3"	5/16"	12"
B2	5/8"	1/4"	3'-2"	1/4"	1'-0"	5/16"	12"
B3	5/8"	5/16"	1'-2"	5/16"	2'-0"	5/16"	12"
B4	5/8"	5/16"	1'-6"	5/16"	1'-4"	5/16"	12"

3 S3.311 GUSSET PLATE DETAIL
SCALE: 3/4" = 1'-0"



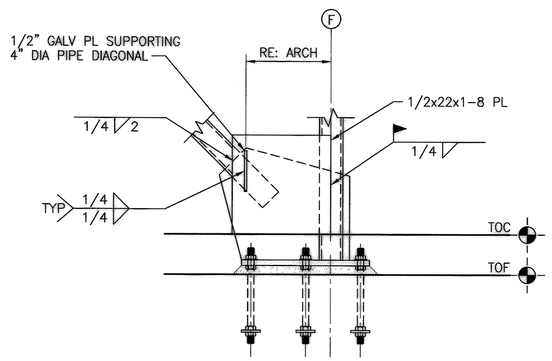
CONNECTION SCHEDULE							
CONN TYPE	GUSSET PL THK	WELD SIZE(X)	WELD Lx	WELD SIZE(Y)	WELD Ly	WELD SIZE(A)	WELD La
D	5/8"	5/16"	1'-5"	5/16"	2'-0"	5/16"	12"

4 S3.311 GUSSET PLATE DETAIL
SCALE: 3/4" = 1'-0"



CONNECTION SCHEDULE							
CONN TYPE	GUSSET PL THK	WELD SIZE(X)	WELD Lx	WELD SIZE(Y)	WELD Ly	WELD SIZE(A)	WELD La
E1	5/8"	1/4"	3'-2"	1/4"	1'-0"	5/16"	12"
E2	5/8"	5/16"	1'-10"	5/16"	1'-2"	5/16"	12"

5 S3.311 GUSSET PLATE DETAIL
SCALE: 3/4" = 1'-0"



6 S3.311 GUSSET PLATE DETAIL
SCALE: 3/4" = 1'-0"

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RECORD DRAWINGS

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PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
FRAMING DETAILS AND SCHEDULES

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE:

E NUMBER: E1974
CONTRACT NUMBER: 998154
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SHEET 72 OF 230

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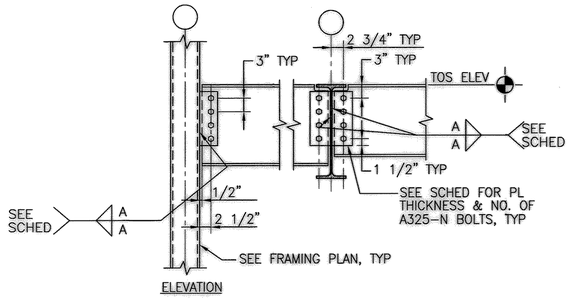
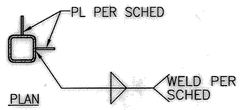
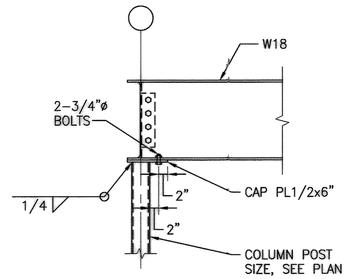


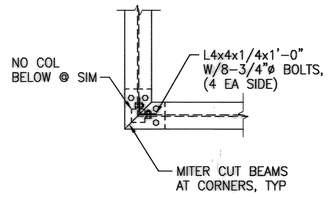


CONNECTION SCHEDULE			
BEAM SIZE	NO. & SIZE OF BOLTS	PLATE THICK.	WELD SIZE (A)
W18	(5) 3/4"ø	3/8"	5/16
W14	(4) 3/4"ø	3/8"	5/16
W12	(3) 3/4"ø	3/8"	5/16
C12	(2) 3/4"ø	3/8"	5/16

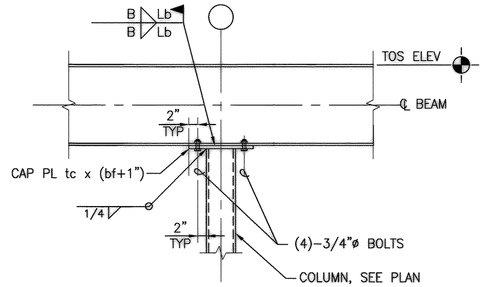
NOTE:
1. CAP PLATE AND BEAMS NOT SHOWN FOR CLARITY.

1 S3.312 **TYP CONNECTION DETAIL**
SCALE: 3/4" = 1'-0"

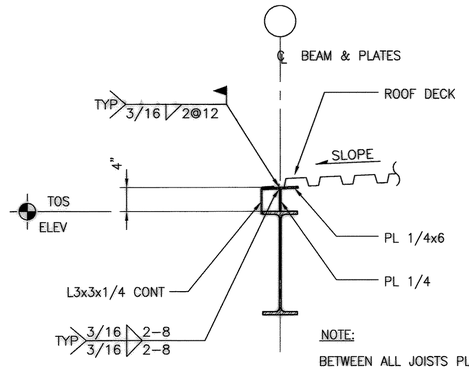




2 S3.101 **DETAIL**
SCALE: 3/4"=1'-0"

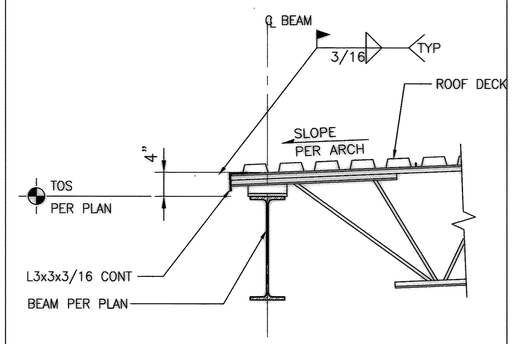


3 S3.101 **DETAIL**
SCALE: 3/4"=1'-0"

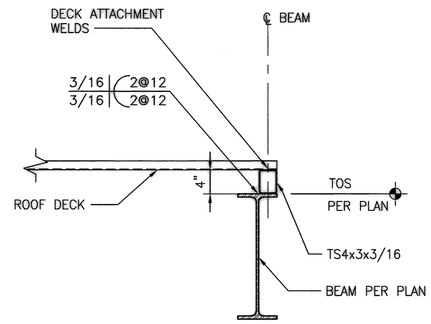


NOTE:
BETWEEN ALL JOISTS PLATE LENGTHS TO BE 12" LESS THAN SPACING OF JOISTS.

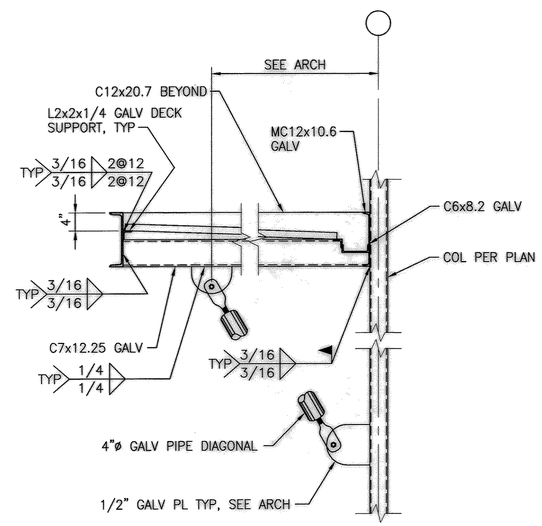
4 S3.312 **SECTION**
SCALE: 1" = 1'-0"



5 S3.312 **SECTION**
SCALE: 1" = 1'-0"



6 S3.312 **SECTION**
SCALE: 1" = 1'-0"



7 S3.312 **DETAIL**
SCALE: 3/4"=1'-0"

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RECORD DRAWINGS

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SENIOR DIRECTOR OF FACILITY DEVELOPMENT — DATE

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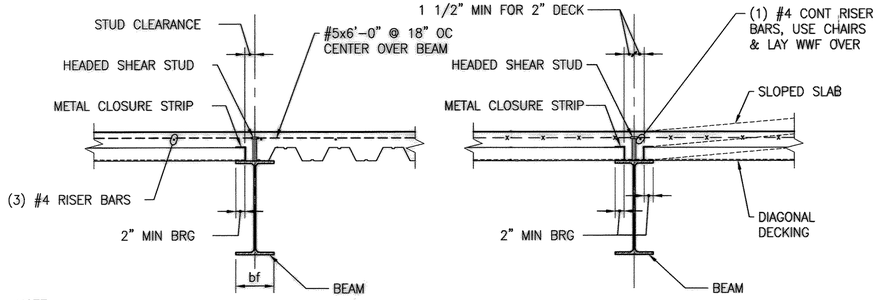
PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
BASE DETAILS

EP5551-17

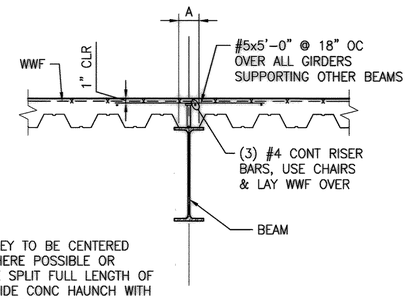
S3.312
SHEET 73 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS



NOTE:
FOR CONTINUOUS METAL CLOSURE STRIPS–MINIMUM BEAM WIDTH bf = 7" FOR 2" DECK. FOR NARROWER BEAMS USE INDIVIDUAL CLOSURES AT EACH HIGH DECK FLUTE. 2" MINIMUM BEARING CONTROLS.

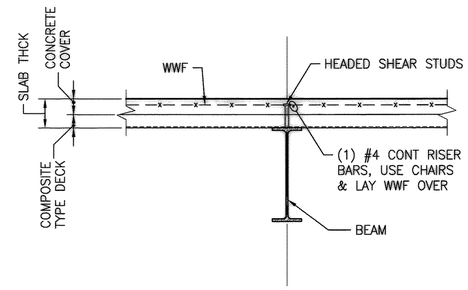
1 DETAIL
S3.321 SCALE: 3/4"=1'-0"



NOTE:
DECK RIB VALLEY TO BE CENTERED OVER BEAM WHERE POSSIBLE OR DECK MUST BE SPLIT FULL LENGTH OF BEAM TO PROVIDE CONC HAUNCH WITH MIN WIDTH A = 3" FOR 2" DECK

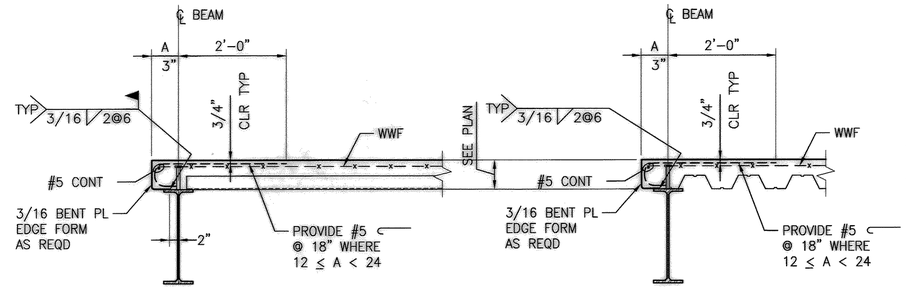
TYPICAL COMPOSITE BEAM OR GIRDER PARALLEL TO COMPOSITE SLAB

2 DETAIL
S3.321 SCALE: 3/4"=1'-0"

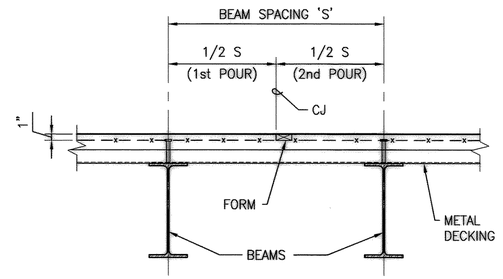


TYPICAL COMPOSITE BEAM PERPENDICULAR TO COMPOSITE SLAB

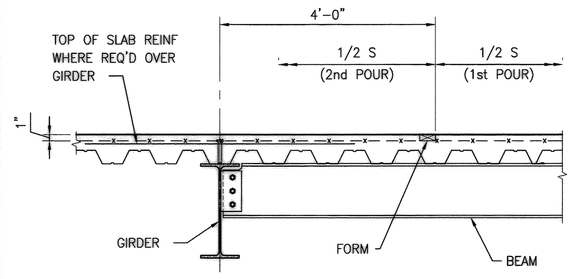
3 DETAIL
S3.321 SCALE: 3/4"=1'-0"



4 TYP SLAB EDGE @ OPENING
S3.321 SCALE: 3/4"=1'-0"

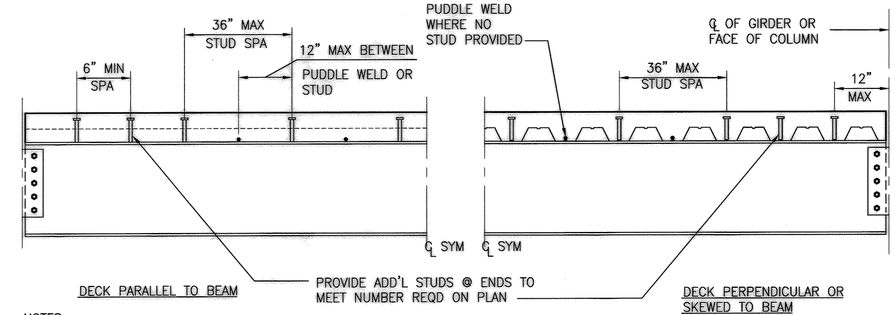


5 JOINT PERPENDICULAR TO DECK
S3.321 SCALE: 3/4"=1'-0"



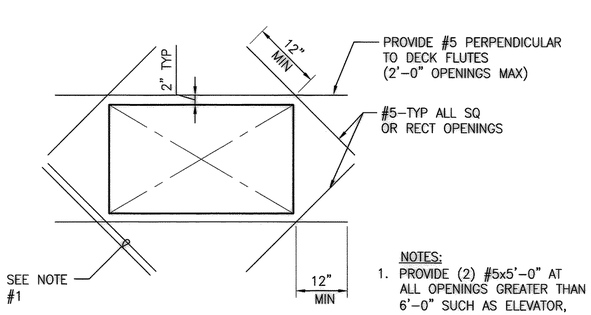
TYPICAL CONSTRUCTION JOINT FOR SLAB ON METAL DECK W/COMPOSITE BEAMS

6 DETAIL
S3.321 SCALE: 3/4"=1'-0"



NOTES
1. HEADED SHEAR STUDS TO BE 3/4" x 4 1/2" LONG AFTER WELDING.
2. THE MINIMUM NUMBER OF STUDS REQUIRED IS SHOWN AS (X) ON FRAMING PLANS. NO. STUDS ARE REQUIRED WHERE (0) APPEARS OR WHERE NO DESIGNATION IS GIVEN. ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAXIMUM SPACING REQUIREMENTS.
3. IF TWO STUDS ARE REQUIRED IN ONE FLUTE THE TRANSVERSE SPACING SHALL BE 3" MINIMUM.

7 TYP COMPOSITE BEAM DETAIL
S3.321 SCALE: 3/4"=1'-0"



TYP SLAB ON METAL DECK OPENING

NOTES:
1. PROVIDE (2) #5x5'-0" AT ALL OPENINGS GREATER THAN 6'-0" SUCH AS ELEVATOR, STAIR, AND AIR SHAFT OPENINGS.
2. ALL OPENINGS NOT SHOWN ON THE DWGS MAY REQUIRE PERIMETER SUPPORT AND SHALL BE APPROVED BY THE ENGINEER.

8 DETAIL
S3.321 SCALE: 3/4"=1'-0"

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PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
COMPOSITE STEEL DECK DETAILS

CONTRACT NUMBER: E1974
PHASE: RECORD DRAWINGS

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SHEET 74 OF 230

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ELECTRIC WALL HEATER

UNIT NO	MFR.	MODEL	LOCATION	INTERLOCK	ELECTRICAL WATT	ELECTRICAL VOLTS	ELECTRICAL ø	DISCONNECT FURN. BY	REMARKS
EWH-3A	KING	W2415	UTILITY 105	T'STAT	1125	208	1	EC	①②

NOTES FOR ELECTRIC WALL HEATER SCHEDULE:

① PROVIDE WITH 2-POLE THERMOSTAT KIT.

② PROVIDE W/SURFACE MOUNT KIT.

ELECTRICAL WATER HEATER SCHEDULE

UNIT NO	MFR.	MODEL	LOCATION	TANK SIZE (GAL)	WATTS	RECOVERY (GPH) @ 80° F RISE	WET WEIGHT (LB)	ELECTRICAL VOLTS	ELECTRICAL ø	STARTER FURN. BY	DISCONNECT FURN. BY	REMARKS
HWT-3A	ELSF-40	A.O. SMITH	1ST FL MENS	40	6000	31	540	208	3	N/A	EC	①②③

NOTES FOR WATER HEATER SCHEDULE

① SINGLE POINT POWER CONNECTION. PROVIDE ALL POWER TRANSFORMERS AS NECESSARY. ③ MC TO PROVIDE AND INSTALL AQUASTAT. EC TO PROVIDE ELECTRICAL CONNECTION.

② SET TEMPERATURE AT 110° F.

INDOOR UNIT SPLIT SYSTEM SCHEDULE

UNIT NO	MFR.	MODEL	LOCATION	AREA SERVED	BLOWER CFM	BLOWER ECONOMIZER	BLOWER MIN. OSA	BLOWER EXT. SP.	BLOWER RPM (SPD)	HP	AUX. ELEC. HEAT KW	WEIGHT (lbs)	ELECTRICAL ② MCA	ELECTRICAL MOP	ELECTRICAL VOLTS	ELECTRICAL ø	STARTER FURN. BY	DISCONNECT FURN. BY	DUCT SMOKE DETECTOR FURN. BY	REMARKS
HP-3A	TRANE	TWE090A3	WOMENS	1ST FLR	2700	100%	1360	0.75	730	1.5	34.88	315	112	125	208	3	MFR	EC	MC ③	①②
HP-3B	TRANE	TWE048A	COPY FAX	2ND FLR NORTH	1200	100%	250	0.80	(MED)	½	10.56	150	36	40	208	3	MFR	EC	N/A	①②
HP-3C	TRANE	TWE036A	CORRIDOR	2ND FLR SOUTH	900	100%	315	0.80	(MED)	½	10.56	125	34	40	208	3	MFR	EC	N/A	①②

NOTES FOR INDOOR UNIT SPLIT SYSTEM SCHEDULE.

① PROVIDE UNIT WITH A SINGLE POINT POWER CONNECTION. PROVIDE ALL POWER TRANSFORMERS AS NECESSARY.

② INCLUDES AUXILIARY ELECTRIC HEATER

③ DETECTOR, REMOTE STATION & CONTROL WIRING FOR FAN SHUTDOWN BY CONTROLS CONTRACTOR.

EXHAUST FAN SCHEDULE

UNIT NO	MFR.	MODEL	LOCATION	CONFIGURATION	AREA SERVED	PERFORMANCE CFM	PERFORMANCE EX. S.P.	PERFORMANCE RPM	BACKDRAFT DAMPER	SPEED CONTROL	CONTROLLED BY OR INTERLOCKED WITH	HP (WATTS)	ELECTRICAL VOLTS	ELECTRICAL ø	STARTER FURN. BY	DISCONNECT FURN. BY	REMARKS
EF-3A	PENN	Z102STDA	WOMENS	INLINE	MENS/WOMENS RESTROOM	595	0.31	1050	NO	YES	HP-3A	(273)	120	1	EC	EC	①②③
EF-3B	PENN	Z8HTDA	BREAK ROOM	INLINE	BREAK ROOM	340	0.30	1550	NO	YES	HP-3A	(132)	120	1	EC	EC	①②③
EF-3C	PENN	Z81STDA	2ND MENS	INLINE	MENS/WOMENS/ BREAK ROOM	220	0.30	1050	NO	YES	HP-3B	(84)	120	1	EC	EC	①②③
EF-3D	PENN	Z8STDA	BREAK 206	INLINE	BREAK ROOM 206	130	0.27	1050	NO	YES	HP-3C	(75)	120	1	EC	EC	①②③

NOTES FOR EXHAUST FAN SCHEDULE

① ALL EXHAUST FANS TO BE WIRED FROM MOTOR TO BOX ON EXTERIOR OF FAN ENCLOSURE.

② SPEED CONTROL TO BE FACTORY WIRED TO THE OUTSIDE CABINET OF INLINE FANS.

③ EC TO PROVIDE A MANUAL STARTER (INCLUDING DISCONNECT). MC TO PROVIDE AND INSTALL A MOTOR RATED RELAY FOR CONTROLS INTERLOCK.

OUTDOOR UNIT SPLIT SYSTEM SCHEDULE

UNIT NO	MFR.	MODEL	LOCATION	EER (SEER)	COOLING ① TOTAL MBH	COOLING ① SENS. @80°F	HEATING ② MBH	HEATING ② COP (HSPF)	WEIGHT (LBS)	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL VOLTS	ELECTRICAL ø	STARTER FURN. BY	DISCONNECT FURN. BY	REMARKS
CU-3A	TRANE	TWA090A3	SOUTH PERIMETER	10.3	88.8	62.8	53.7	3.0	343	37.1	60	208	3	MFR	EC	③
CU-3B	TRANE	TWA048C3	SOUTH PERIMETER	(10.05)	46.5	32.0	42.0	2.9	239	25	30	208	3	MFR	EC	③
CU-3C	TRANE	TWA036C3	SOUTH PERIMETER	(10.35)	35.2	23.8	32.6	2.9	198	25	30	208	3	MFR	EC	③

NOTES FOR OUTDOOR UNIT SPLIT SYSTEM SCHEDULE.

① COOLING CAPACITY MBH @ 95°F. O.D.D.B. & 67°F. W.B., 80°F. D.B. INDOOR

② HEATING CAPACITY MBH @ 17°F. E.A.T., 70°F. INDOOR

③ PROVIDE SINGLE POINT POWER CONNECTION. PROVIDE POWER TRANSFORMERS AS NECESSARY.

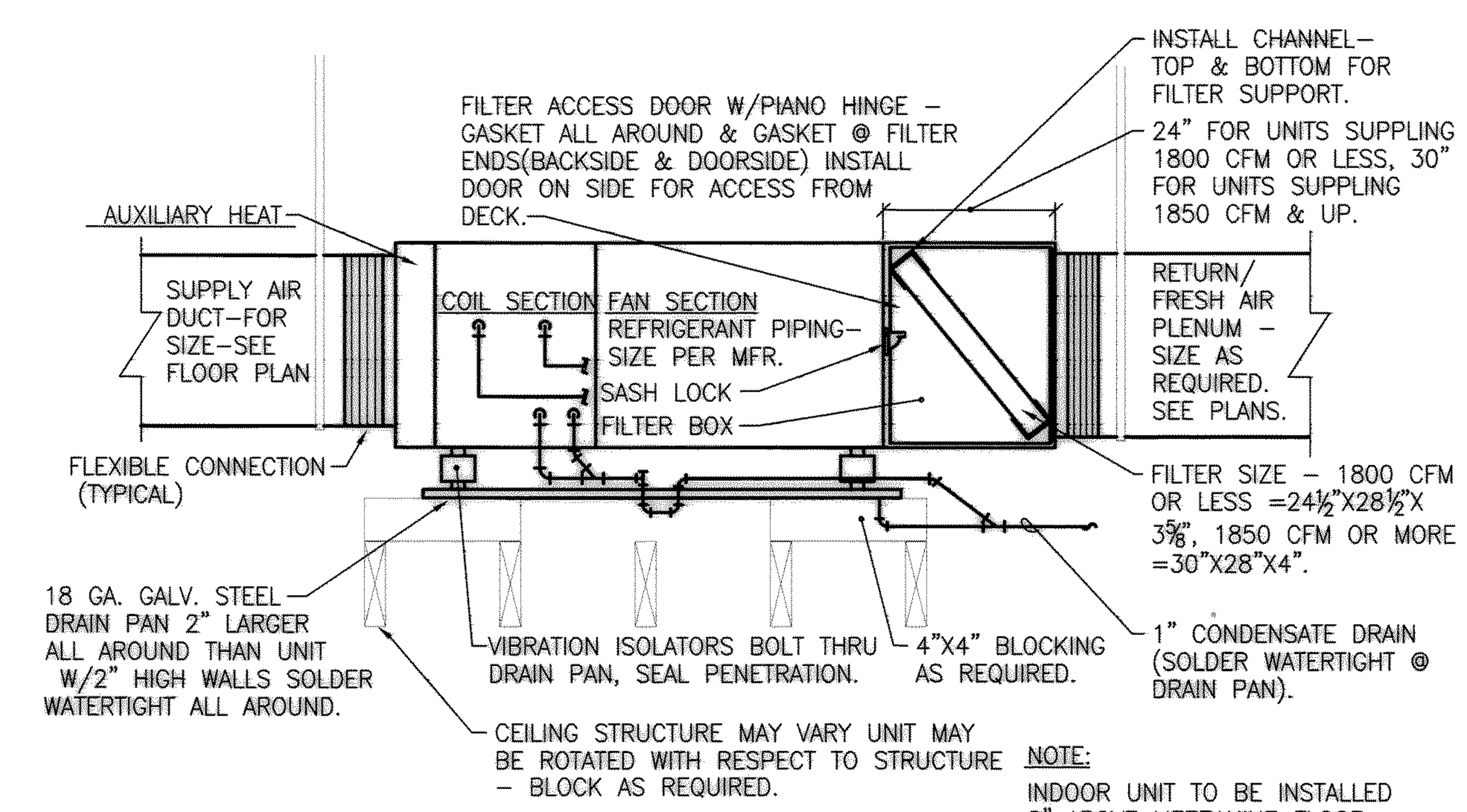
PUMPS SCHEDULE

UNIT NO	MFR.	MODEL	LOCATION	MOTOR HP	MOTOR RPM	HEAD (FT)	FLOW (GPM)	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL VOLTS	ELECTRICAL ø	STARTER FURN. BY	DISCONNECT FURN. BY	REMARKS
CP-3A	ARMSTRONG	ARMFLO E10B	MEN	1/6	–	2.1	–	1.62	–	115	1	②	②	①

NOTES FOR CIRCULATION PUMP SCHEDULE

① E.C. TO CONNECT AQUASTAT. AQUASTAT SET POINT IS 100°F

② EC TO PROVIDE A MANUAL STARTER (INCLUDING DISCONNECT). MC TO PROVIDE AND INSTALL A MOTOR RATED RELAY FOR CONTROLS INTERLOCK.



INDOOR HEAT PUMP INSTALLATION DETAIL

NOT TO SCALE

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FILE NUMBER:C:\M3.100-2003003.DWG

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MARK	REVISION	BY:	APPROVED:	DATE:
	RECORD DRAWINGS			

APPROVED

CHIEF ENGINEER – DATE

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PROJECT ENGR. – DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: NONE

PORT OF TACOMA
PIERCE COUNTY TERMINAL MARINE BUILDING MECHANICAL SCHEDULES

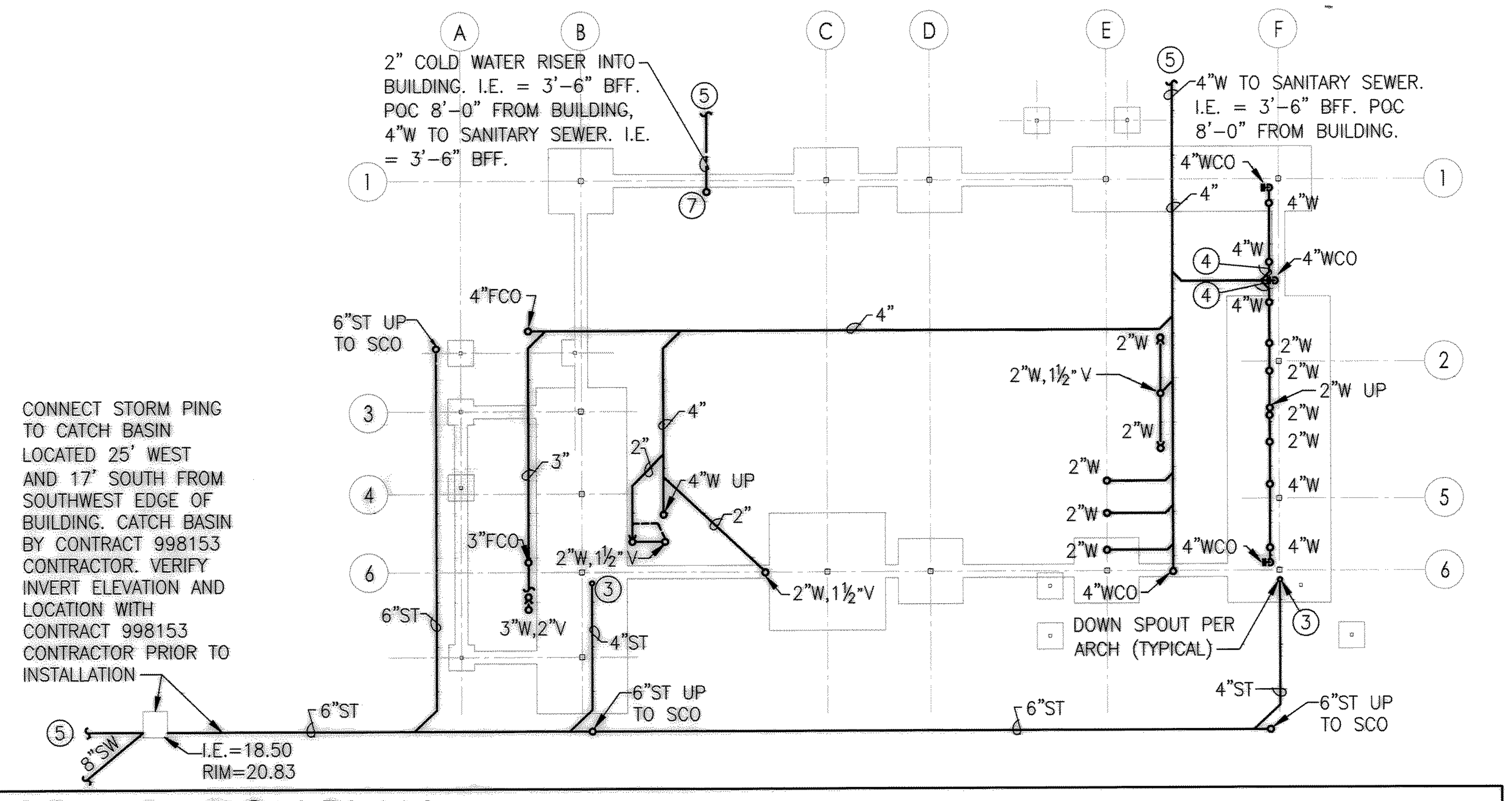
EP-5551-17

M3.100

SHEET 75 OF 230

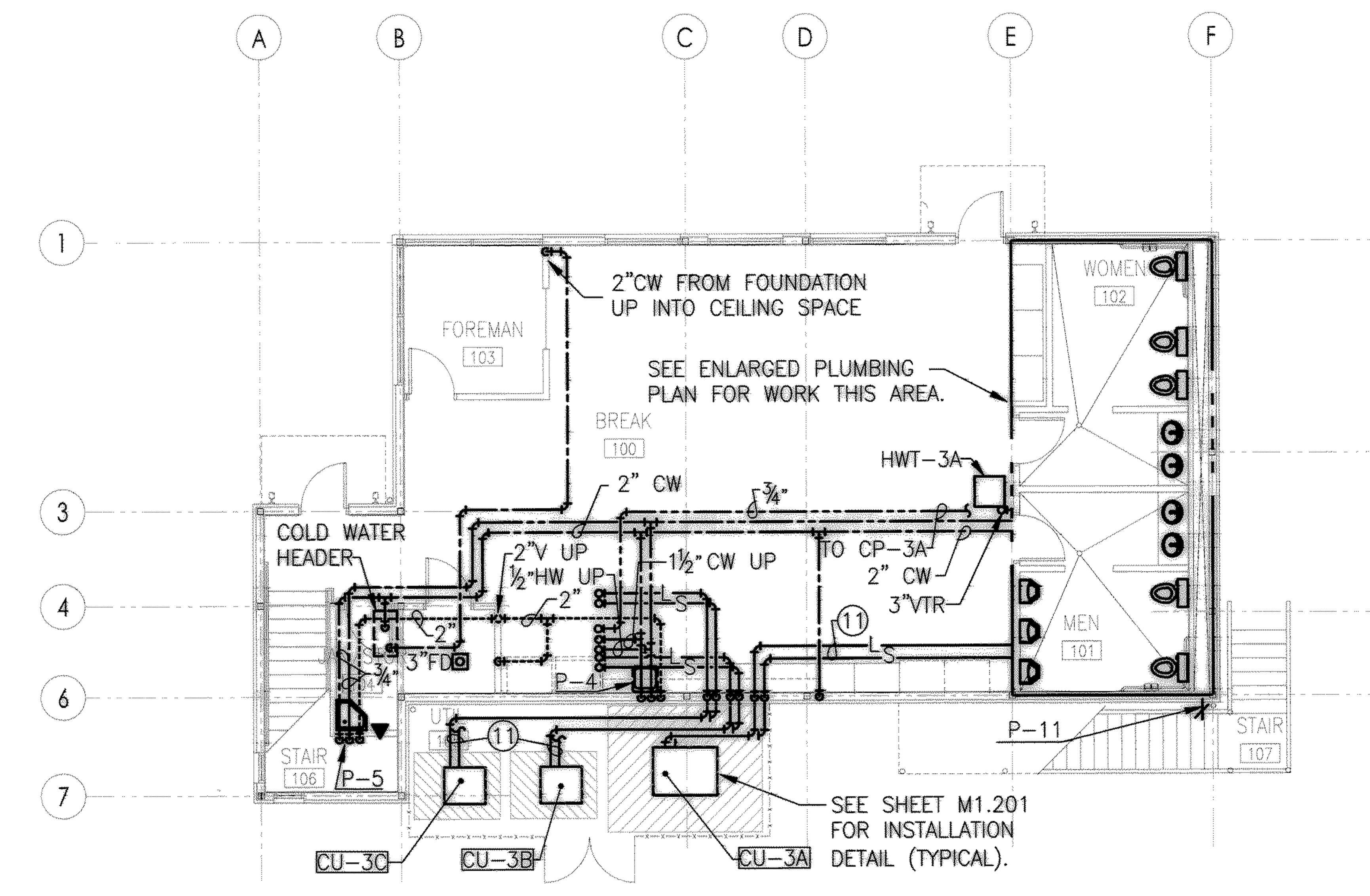
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS

6321-17



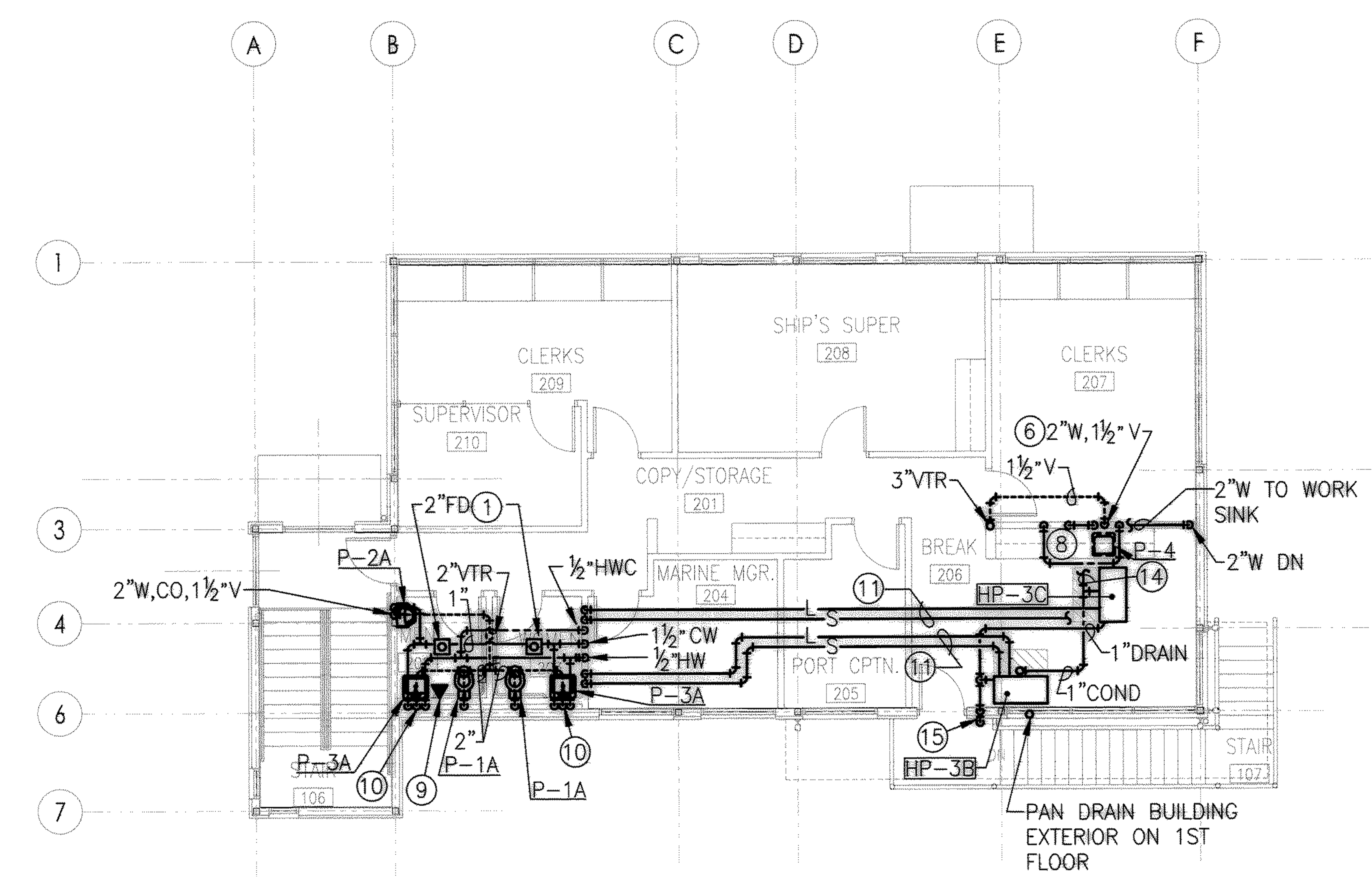
1 FOUNDATION PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg



2 FIRST FLOOR PLUMBING PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg

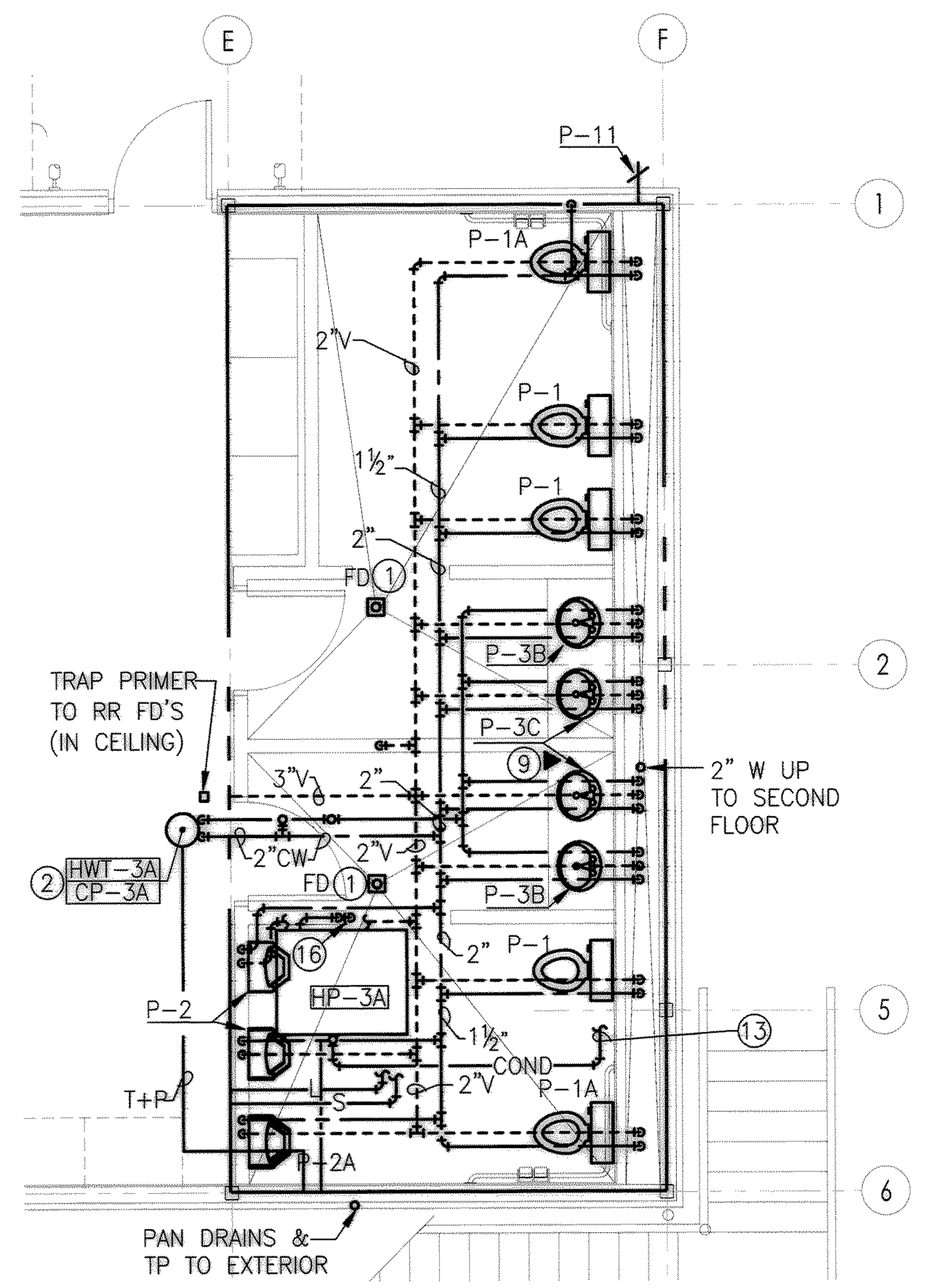


3 SECOND FLOOR PLUMBING PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg

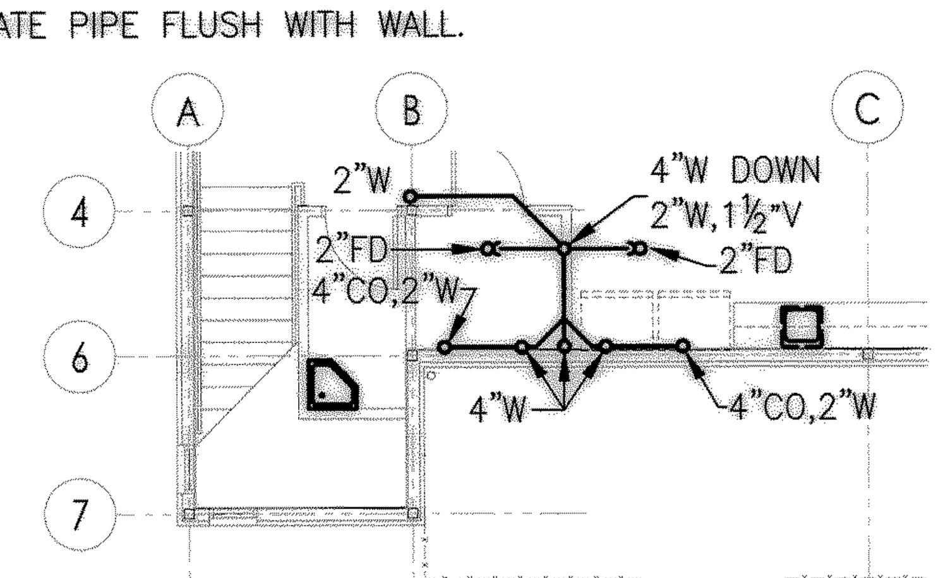
CONSTRUCTION NOTES

1. RESTROOM FLOOR TO SLOPE TOWARDS FLOOR DRAIN.
2. MECHANICAL EQUIPMENT LOCATED IN CEILING SPACE.
3. SEE ARCHITECTURAL FOR CONTINUATION. CONNECT TO DOWNSPOUT BY G.C. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
4. ABOVE SLAB PIPING SHOWN FOR CLARIFICATION.
5. SEE CONTRACT 998153 UTILITY PLANS FOR CONTINUATION.
6. INSTALL CLEANOUT UNDER SINK IN CASEWORK.
7. 2"CW INTO BUILDING TO ELBOW UP THROUGH SLAB UP INTO FURRING IN WALL ABOVE. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION THIS SHEET.
8. 1/2"CW,HW FROM FIRST FLOOR TO SERVE WORK SINK.
9. INSTALL TRAP PRIMER UNDER LAVATORY.
10. 4"W UP TO 2" BRANCH TEE TO LAVATORY, 4"WCO, 1-1/2"V.
11. SIZE AND INSTALL REFRIGERANT PIPING PER MFR RECOMMENDATIONS.
12. PENETRATE INTO FURRING OF WALL @ 6" AFF AND ROUTE REFRIGERANT PIPING UP INTO CEILING SPACE.
13. ROUTE 1"COND FROM HP-3A DOWN EASTERN WALL IN PLUMBING CHASE AND TAP INTO TAIL PIECE OF P-3B FIXTURE BELOW.
14. ROUTE 1"COND DOWN IN FURRING OF NORTHERN MOST WALL OF BREAK 206 AND TAP INTO TAIL PIECE OF P-4 FIXTURE BELOW.
15. TEE 1" PIPE FROM HP-3B DRAIN PAN INTO HP-3C 1"DRAIN. ELBOW COMBINED 1"DRAIN DOWN EXTERIOR WALL AND DAYLIGHT 6" AFF (MAX). TERMINATE WITH 90° ELBOW DOWN. PROVIDE BUG SCREEN.
16. ROUTE 1"DRAIN FROM HP-3A DRAIN PAN DOWN IN WALL AND ELBOW OUT AT 1" AFF. TERMINATE PIPE FLUSH WITH WALL.



5 ENLARGED PLUMBING PLAN

SCALE: 1/4"=1'-0" | BMM | xfp_marine-23003.dwg



4 FIRST FLOOR PARTIAL WASTE PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg

GENERAL NOTES

1. THIS CONTRACTOR SHALL COORDINATE ELEVATIONS, WORK SEQUENCING AND CONNECTIONS TO SITE UTILITIES WORK BEING FURNISHED UNDER CONTRACT #998153.
2. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE AND ALL APPURTENANCES NECESSARY FOR CONNECTION OF BUILDING DOWNSPOUTS TO CATCH BASIN. COORDINATE ROUTING WITH CONTRACT 998153 CONTRACTORS PRIOR TO INSTALLATION. COORDINATE ROUGH-IN OF PIPING IN SLAB AND FOUNDATION WITH G.C. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

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PROJECT NORTH

FILE NUMBER-M3.210-2003-003.DWG
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6021 12th street east suite 201 tacoma, wa 98424 tel: 253 . 922 . 9037 fax: 253 . 922 . 6499
MARK | REVISION | BY | APPROVED | DATE
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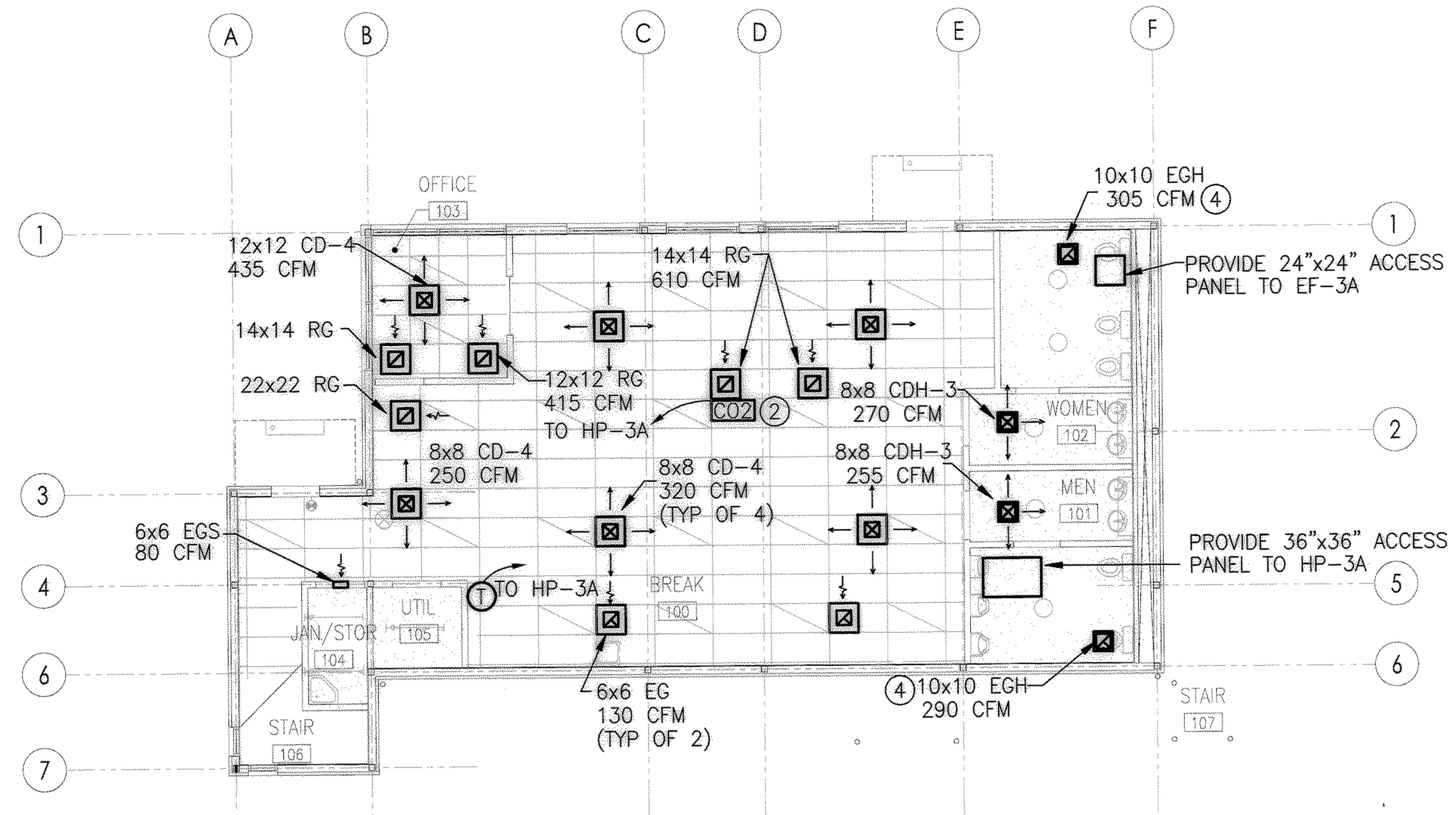
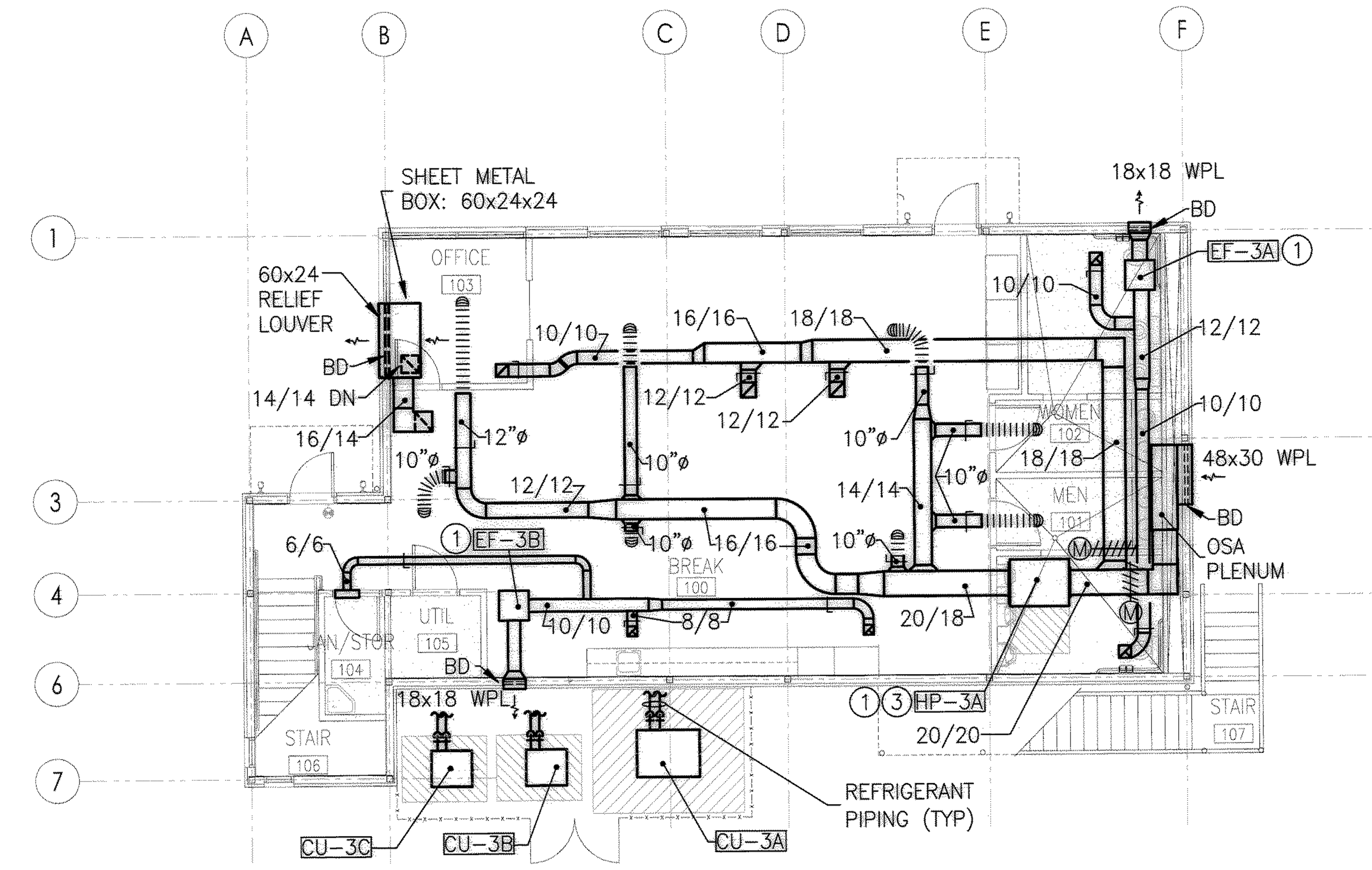
CHECKED BY – DATE
PROJECT ENGR.– DATE
DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:
PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
FOUNDATION & PLUMBING PLANS
TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: AS NOTED
EP-6664-17
M3.210
SHEET 76 OF 230
CONTRACT NUMBER: 998154
E NUMBER:
PHASE: RECORD DRAWINGS
6321-17



1	FIRST FLOOR REFLECTED CEILING PLAN
	SCALE: 1/8"=1'-0" BMM xfp_marine-23003.dwg



3	FIRST FLOOR FURRED CEILING PLAN
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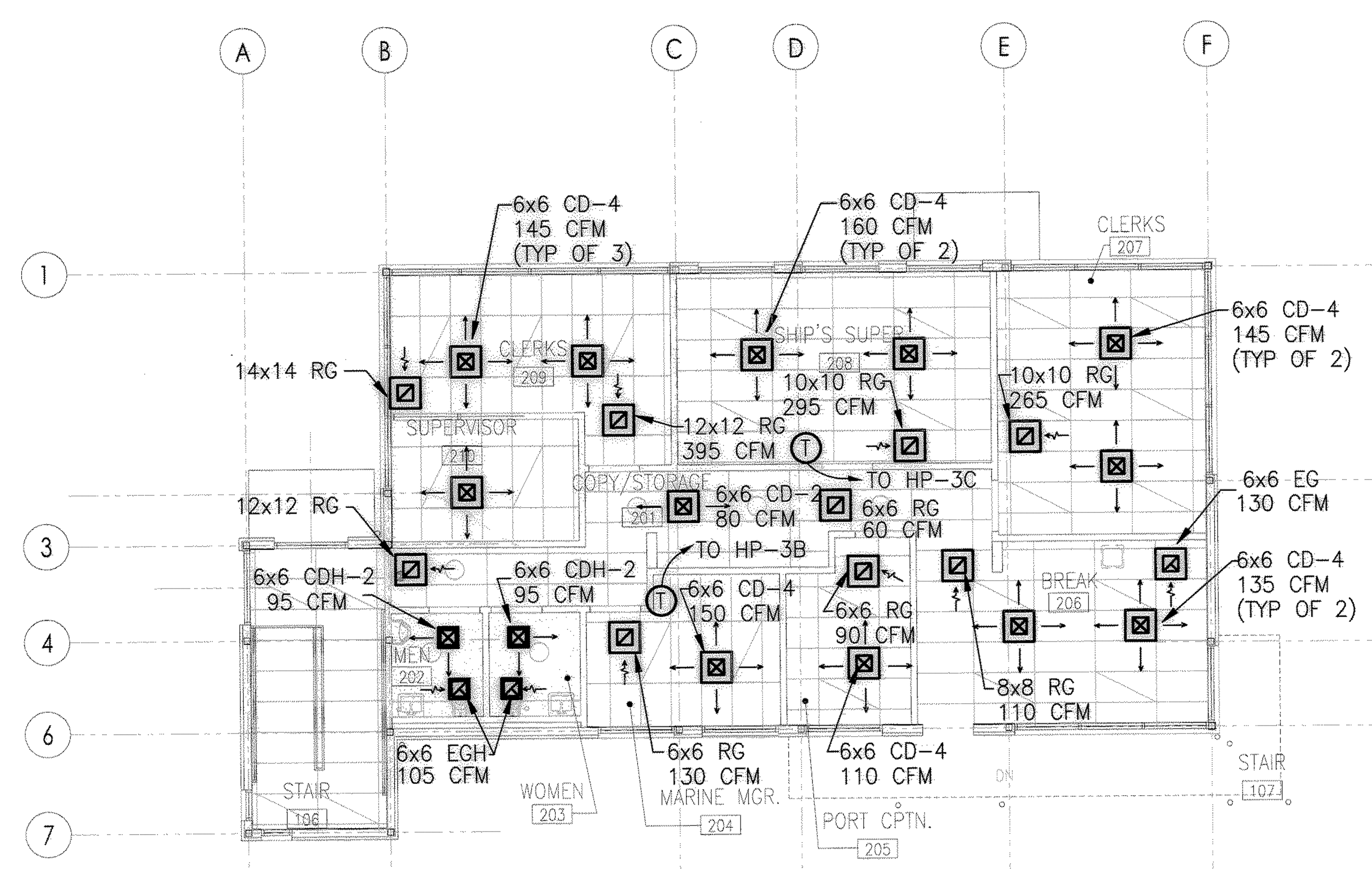

2	SECOND FLOOR REFLECTED CEILING PLAN
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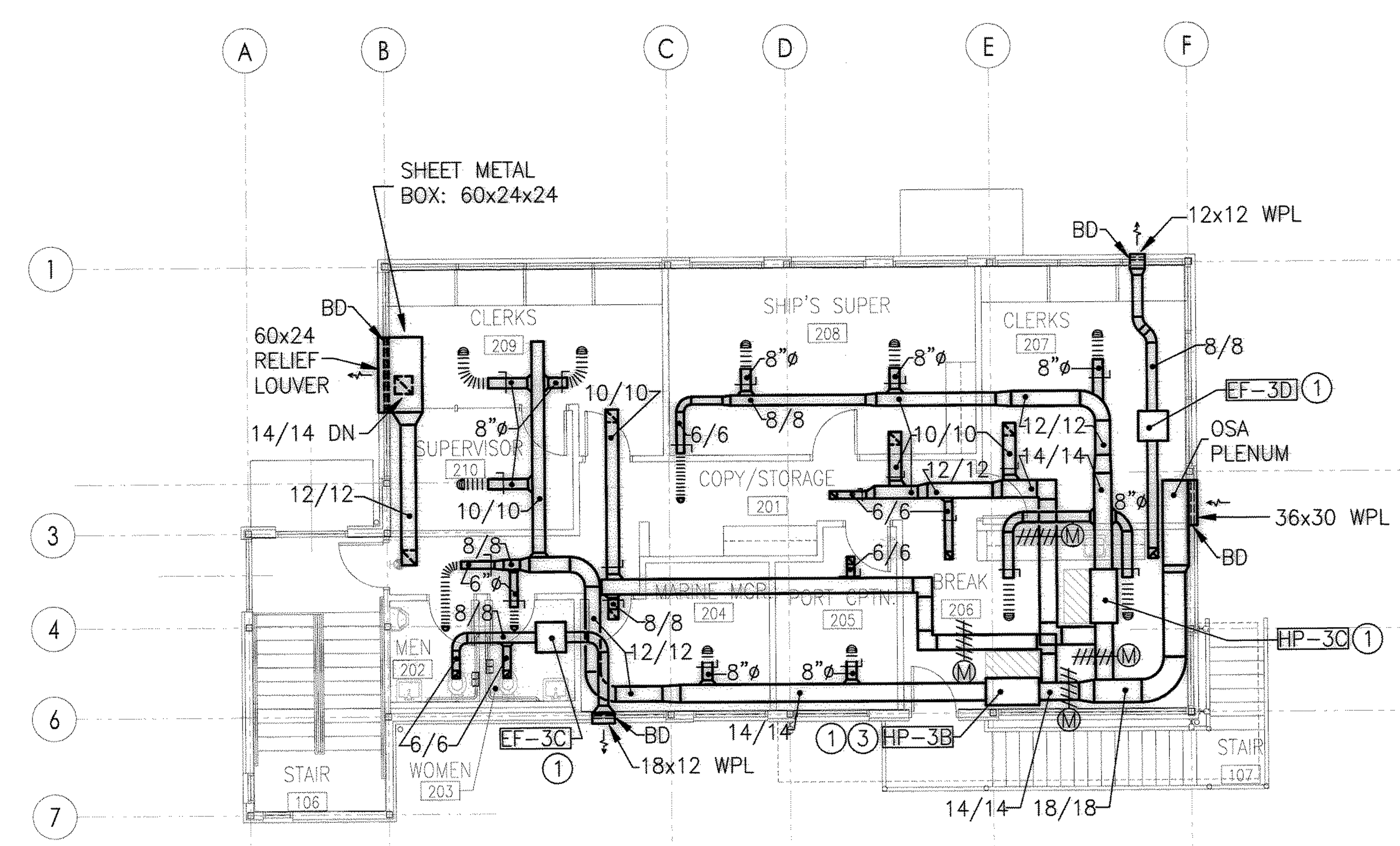

4	SECOND FLOOR FURRED CEILING PLAN
	SCALE: 1/8"=1'-0" BMM xfp_marine-23003.dwg

CONSTRUCTION NOTES

1. MECHANICAL EQUIPMENT TO BE LOCATED IN CEILING SPACE.
2. CO2 SENSOR IN RETURN AIR DUCT, DOWN STREAM OF ALL RETURN CONNECTIONS.
3. SEE SHEET M1.100 FOR INDOOR HEAT PUMP INSTALLATION DETAIL (TYPICAL).
4. PROVIDE OPPOSED BLADE DAMPER WITH GRILLE.

FILE NUMBER:M3.310-2003-003.DWG

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MARK	REVISION	BY	APPROV.	DATE
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PROJECT ENGR.- DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
REFLECTED & FURRED CEILING PLANS

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:
TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'

EP-6654-17

M3.310

SHEET 77 OF 230
CONTRACT NUMBER: 098154
PHASE: RECORD DRAWINGS

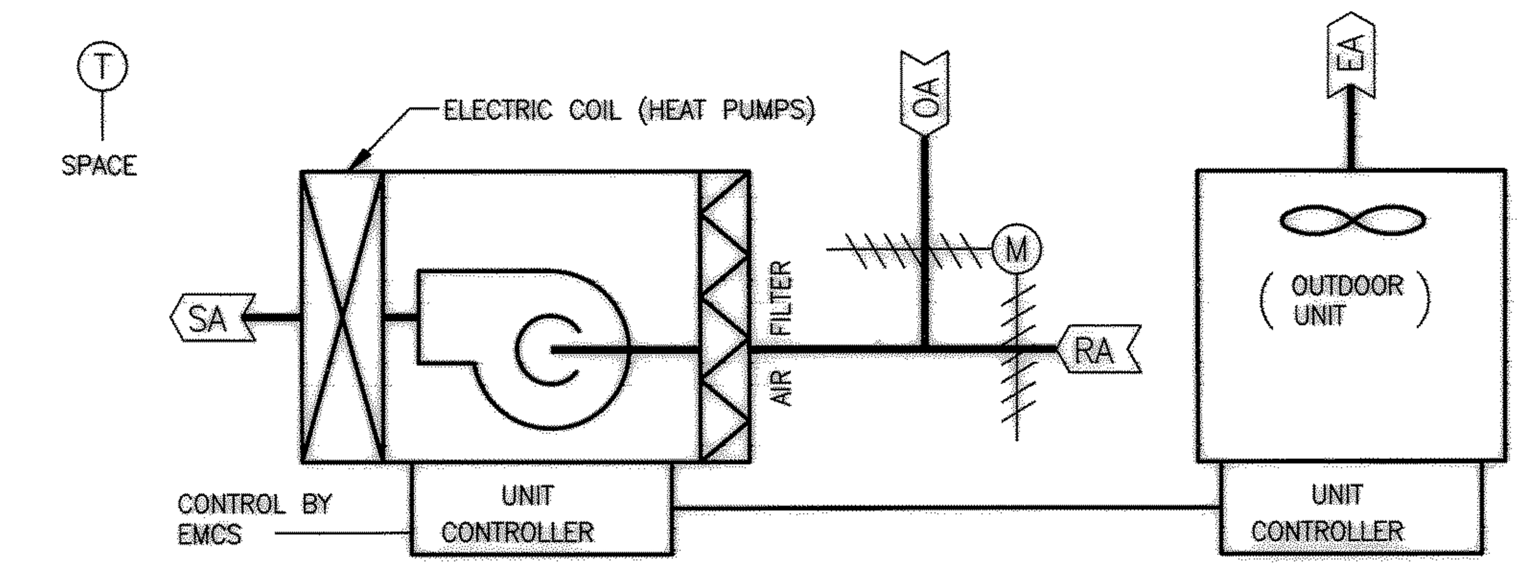
6321-17

PROJECT NORTH

0 4' 8' 16' 32'

HEAT PUMP UNITS

A. AIR CONDITIONING UNIT SHALL BE CONTROLLED BY THE SPACE T'STAT. THE UNIT FAN AND COMPRESSOR SHALL CYCLE ON AND OFF TO MAINTAIN ROOM TEMPERATURE SETPOINT OF 78°F (ADJUSTABLE) FOR COOLING, AND 70°F (ADJUSTABLE) FOR HEATING.



SPLIT SYSTEM COOLING UNITS

A. SPLIT SYSTEM COOLING UNIT SHALL BE CONTROLLED BY THE SPACE THERMOSTAT PROVIDED WITH THE UNIT. THE UNIT FAN AND COMPRESSOR SHALL CYCLE ON AND OFF TO MAINTAIN ROOM TEMPERATURE SETPOINT OF 80°F (ADJUSTABLE). EMCS SYSTEM SHALL MONITOR SPACE TEMPERATURE.

B. HEAT PUMP UNIT (ROOM C–324) SHALL BE CONTROLLED BY THE BUILDING EMCS SYSTEM THROUGH THE SPACE THERMOSTAT. THE UNIT FAN, COMPRESSOR, REVERSING VALVE AND ELECTRIC HEATER SHALL BE INDIVIDUALLY CONTROLLED IN SEQUENCE, AS REQUIRED, TO MAINTAIN ROOM TEMPERATURE RANGE 60–85°F (ADJUSTABLE).

1. HEATING MODE: ON A CALL FOR SYSTEM HEATING, COMPRESSOR AND REVERSING VALVE SHALL BE ENABLED IN SEQUENCE AS REQUIRED TO SATISFY SPACE HEATING REQUIREMENTS. IF, AFTER A 5 MINUTE TIME DELAY, THE COMPRESSOR HAS NOT RAISED THE ROOM TEMPERATURE, THE ELECTRIC HEATER SHALL BE ENABLED AND MODULATED TO MAINTAIN A MINIMUM LOW LIMIT SUPPLY AIR TEMPERATURE OF 85°F (ADJUSTABLE).

   THE DEFROST SIGNAL STATUS, RESIDENT IN THE HEAT PUMP OUTDOOR SECTION, SHALL BE MONITORED BY THE EMCS AND DISPLAYED WITH OTHER SYSTEM POINTS. UPON RECEIPT OF THIS SIGNAL, ELECTRIC HEATER SHALL BE COMMANDED TO 100% HEAT, DAMPERS AND EMERGENCY HEAT SAFETIES TEMPORARILY DISABLED UNTIL UNIT RETURNS TO NORMAL OPERATION AT DEFROST CONCLUSION.

2. EMERGENCY HEAT MODE: FOLLOWING A TIME DELAY OF 10 MINUTES FOLLOWING THE START OF A NEW HEATING CYCLE, AND IF THE HEAT PUMP FAILS TO DEVELOP A TEMPERATURE RISE ACROSS THE INDOOR COIL OF >15°F (ADJUSTABLE), THE HEAT PUMP SYSTEM SHALL LATCH INTO AN "EMERGENCY HEAT MODE". IN THIS MODE, OPERATION OF COMPRESSOR WILL BE PREVENTED, BOTH A VISUAL AND AUDIBLE ALARM SHALL BE SIGNALED AT THE OPERATOR'S INTERFACE AND THE ELECTRIC HEATER WILL BE MODULATED TO MAINTAIN ROOM SETPOINT TEMPERATURE. THE AUDIBLE ALARM WILL CONTINUE TO SOUND UNTIL ACKNOWLEDGED AND THE UNIT SHALL REMAIN IN EMERGENCY MODE UNTIL RESET AT THE OPERATOR INTERFACE.

3. COOLING MODE: AS A FIRST STAGE OF COOLING, ELECTRIC HEATER IS DISABLED AND IF OSA IS DETERMINED TO SUITABLE FOR USE IN COOLING, ECONOMIZER DAMPERS SHALL BE MODULATED TO PROVIDE MIXED AIR TEMPERATURE OF 53°F. DAMPERS SHALL RETURN TO MINIMUM POSITION IF THE OSA TEMPERATURE RISES ABOVE AN ADJUSTABLE LOCKOUT TEMPERATURE 76°F DRY BULB. UPON A CALL FOR ADDITIONAL COOLING, COMPRESSOR AND REVERSING VALVE SHALL BE CYCLED IN SEQUENCE TO PROVIDE DX COOLING. WHEN ECONOMIZER COOLING IS LOCKED OUT, DX COOLING SHALL BE USED AS FIRST–STAGE COOLING.

4. EMERGENCY COOLING MODE: SIMILAR TO THE EMERGENCY HEAT MODE, IF AFTER 10 MINUTES OF COMPRESSOR OPERATION A TEMPERATURE DIFFERENTIAL OF AT LEAST 15°F (ADJUSTABLE) IS NOT ATTAINED, LOCKOUT COMPRESSOR OPERATION AND INITIATE AN ALARM AT THE OPERATOR'S TERMINAL. COMPRESSOR SHALL REMAINED LOCKED OUT UNTIL RESET AT THE OPERATOR INTERFACE.

C. MISCELLANEOUS SAFETIES: VERIFY MANUFACTURER FURNISHED ELECTRIC CONTROLS AND PROVIDE ADDITIONAL INTERLOCKS AS REQUIRED TO PREVENT COMPRESSOR AND ELECTRIC HEAT FROM OPERATING WITHOUT FAN OPERATION. THE INTEGRITY OF INTEGRAL LOW PRESSURE AND HIGH PRESSURE SAFETY SHUTDOWNS OF COMPRESSOR SHALL REMAIN INTACT AND UNAFFECTED BY THE FIELD INSTALLATION OF DDC CONTROLS. AN ALARM SHALL BE ENERGIZED UPON FAILURE OF ANY DEVICE OR IF SPACE TEMPERATURE EXCEEDS 10°F (ADJUSTABLE).

INFORMATION AT TERMINAL
- SPACE TEMPERATURE
- UNIT COMMANDED MODE (ON/OFF)
- FAN ON/OFF
- FAN STATUS VIA AIRFLOW SWITCH OR CURRENT SENSING RELAY.
- PERCENT COMMANDED COOLING
- OUTPUT STATUS
- ALARM/TROUBLE CONDITIONS

POINTS LIST	AI	AO	DI	DO
SUPPLY FAN START/STOP				X
SUPPLY FAN STATUS			X	
CHANGEOVER VALVE				X
COMPRESSOR ENABLE				X
SPACE TEMPERATURE	X			
OUTSIDE AIR DAMPER		X		
MIXED AIR TEMPERATURE	X			

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FILE NUMBER:C:\M3.400–2003003.DWG

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MARK	REVISION	BY:	APPROVED:	DATE:
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PROJECT ENGR.– DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

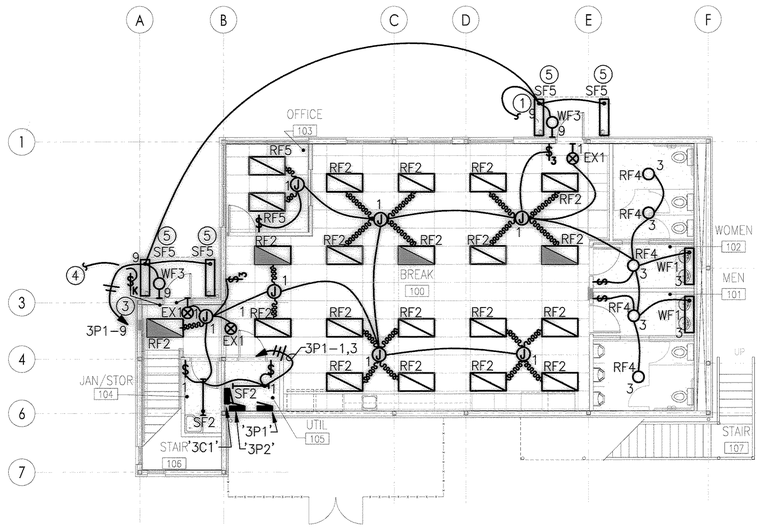
PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
MECHANICAL CONTROLS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'

EP-~~6551-17~~

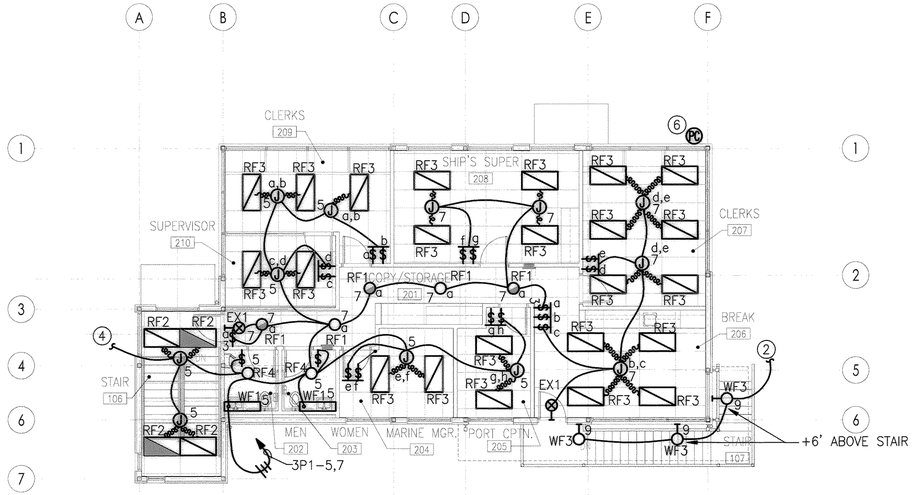
M3.400

SHEET 78 OF 230
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWINGS



1 FIRST FLOOR LIGHTING PLAN

SCALE: 1/8"=1'–0" | BMM | xfp_marine–23003.dwg



2 SECOND FLOOR LIGHTING PLAN

SCALE: 1/8"=1'–0" | BMM | xfp_marine–23003.dwg

CONSTRUCTION NOTES

1. CIRCUIT CONTINUED TO SECOND FLOOR EXTERIOR LIGHTS.
2. CIRCUIT CONTINUED TO FIRST FLOOR EXTERIOR LIGHTS.
3. ROUTE THROUGH LIGHTING CONTROL CONTACTOR. SEE DETAIL ON SHEET E1.103.
4. SWITCH CIRCUIT CONTINUED FOR STAIRWAY LIGHTING.
5. MOUNT FIXTURE TO INSIDE END OF CANOPY. AIM AT UNDERSIDE OF CANOPY SO AS TO MAXIMIZE UNIFORMITY OF INDIRECT ILLUMINANCE UNDER CANOPY. SEE ARCHITECTURAL DETAIL 13, SHEET A7.606
6. PHOTOCELL FOR EXTERIOR BUILDING LIGHTS MOUNTED ON ROOF. AIM NORTH, FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS. SEE DETAIL SHEET E1.103.

GENERAL NOTES

1. PANEL CIRCUIT NUMBER ARE SHOWN TO CLARIFY CIRCUITING CONFIGURATION. CONDUCTOR HASH MARKS ARE NOT SHOWN FOR #12 AWG WIRE, SWITCH LEGS, OR GROUNDING CONDUCTORS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUCTORS AS NECESSARY IN ORDER TO INSTALL ALL CIRCUITS, SWITCHING, AND GROUNDING COMPLETE.
2. PROVIDE UNSWITCHED HOT LEG FOR ALL EMERGENY/EXIT FIXTURES.

PROJECT NORTH

2' 8' 0 4' 16'

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6321-17

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	RECORD DRAWINGS			

APPROVED

CHIEF ENGINEER – DATE

CHECKED BY – DATE

PROJECT ENGR.– DATE

DRAWING DATE:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING LIGHTING PLAN

TOWNSHIP: RANGE: SECTION:
DRAWING SCALE:1/8" = 1' VERT:

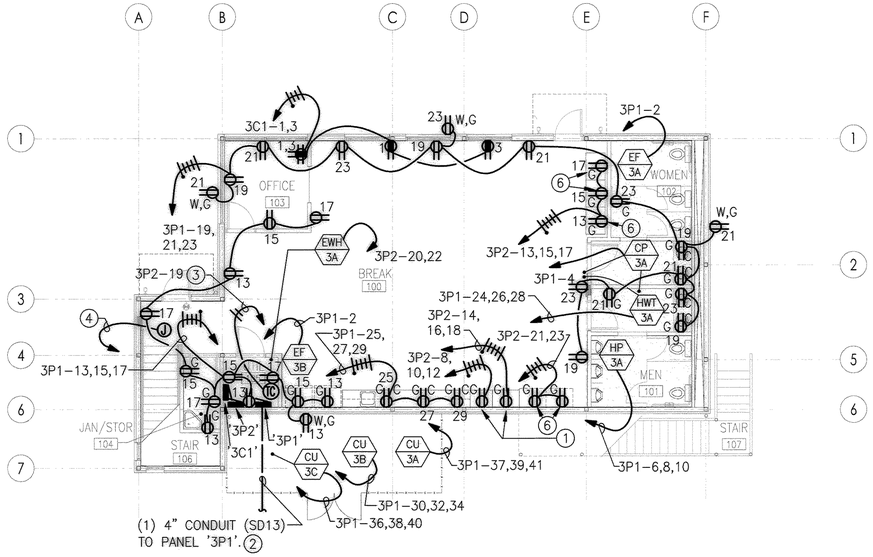
CONTRACT NUMBER: 998154
PHASE: RECORD DRAWINGS

SHEET 79 OF 230

EP-~~5554-17~~

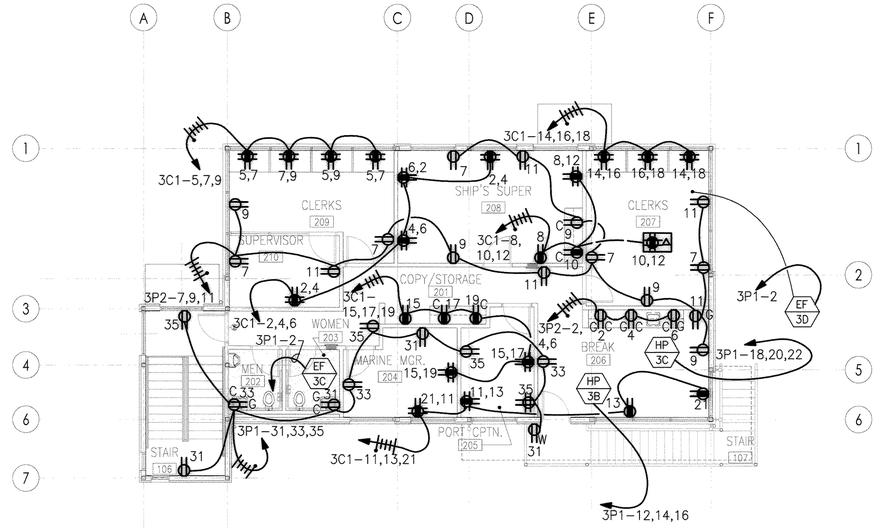
E3.100

FILE NUMBER:MARINE–LTG–23003.DWG



1 FIRST FLOOR POWER PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg



2 SECOND FLOOR POWER PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg

GENERAL NOTES

1. LIGHT LINEWEIGHT INDICATES WORK BY OTHERS.
2. PANEL CIRCUIT NUMBER ARE SHOWN TO CLARIFY CIRCUITING CONFIGURATION. CONDUCTOR HASH MARKS ARE NOT SHOWN FOR #12 AWG WIRE, SWITCH LEGS, OR GROUNDING CONDUCTORS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUCTORS AS NECESSARY IN ORDER TO INSTALL ALL CIRCUITS, SWITCHING, AND GROUNDING COMPLETE.
3. PROVIDE ALL CONDUITS WITH PULL STRINGS.
4. PROVIDE CONDUIT CAP FOR ALL SPARE AND FOR FUTURE CONDUITS.

CONSTRUCTION NOTES

(1) (3) DEDICATED RECEPTACLES AT EACH LOCATION FOR STACKED MICROWAVES IN CABINETS. COORDINATE MOUNTING HEIGHT WITH CABINET INSTALLER.

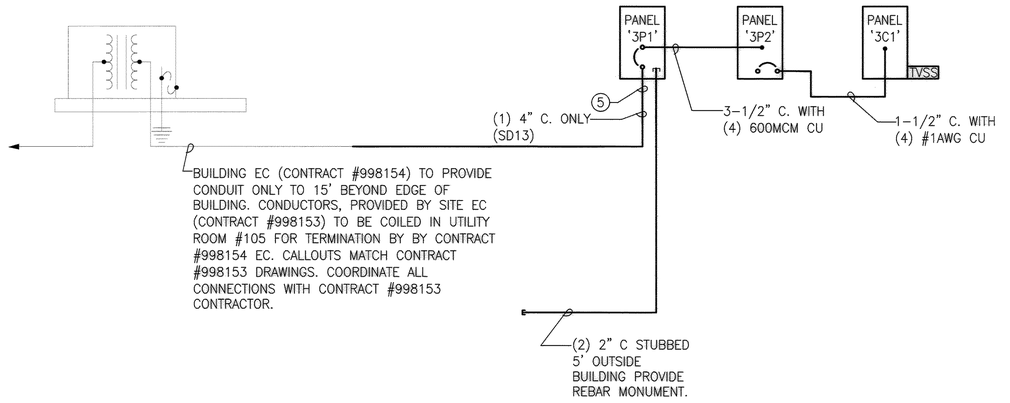
(2) BUILDING EC (CONTRACT #998154) TO PROVIDE CONDUIT ONLY TO 15' BEYOND EDGE OF BUILDING. CONDUCTORS, PROVIDED BY SITE EC (CONTRACT #998153) TO BE COILED IN UTILITY ROOM #105 FOR TERMINATION BY BY CONTRACT #998154 EC. CALLOUTS MATCH CONTRACT #998153 DRAWINGS. COORDINATE ALL CONNECTIONS WITH CONTRACT #998153 CONTRACTOR.

(3) CONNECTION FOR PHOTOCELL/TIMECLOCK. SEE DETAIL SHEET E1.103.

(4) PROVIDE J-BOX AND 3/4" CONDUIT WITH PULL STRING TO UTILITY ROOM #105 FOR FUTURE CARD ACCESS SYSTEM.

(5) FIELD VERIFY PHASE ROTATION PRIOR TO CONDUCTOR TERMINATION IN PANEL. PROVIDE ALL NECESSARY COORDINATION WITH CONTRACT #998153 WORK.

(6) VENDING MACHINE.



3 RISER DIAGRAM

NOT TO SCALE | BMM | xfp_marine-23003.dwg

PROJECT NORTH

2' 8'
0 4' 16'

PORT OF TACOMA
USA
PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
Hoffman
6021 12th street east suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

MARK	REVISION RECORD DRAWINGS	BY:	APPROVED	DATE:

APPROVED

CHIEF ENGINEER - DATE

CHECKED BY - DATE

PROJECT ENGR.- DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
POWER PLAN

EP-~~6661-17~~

E3.200

CONTRACT NUMBER: 998154
E. NUMBER: E1974
PHASE: RECORD DRAWINGS

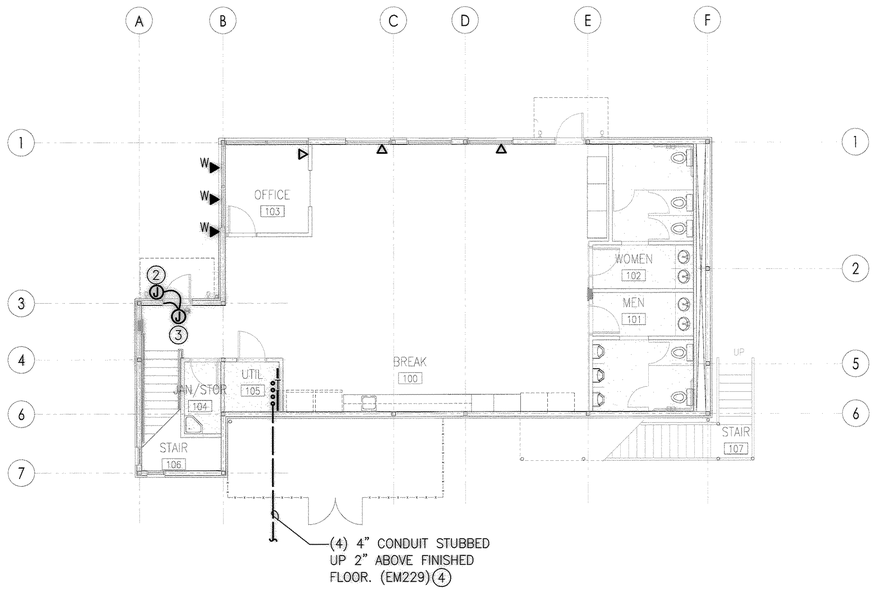
SHEET 80 OF 230

BCE ENGINEERS, INC.
6021 12TH STREET E. SUITE 200
TACOMA, WA 98424
(253) 922-0446 FAX (253) 922-0886

6321-17

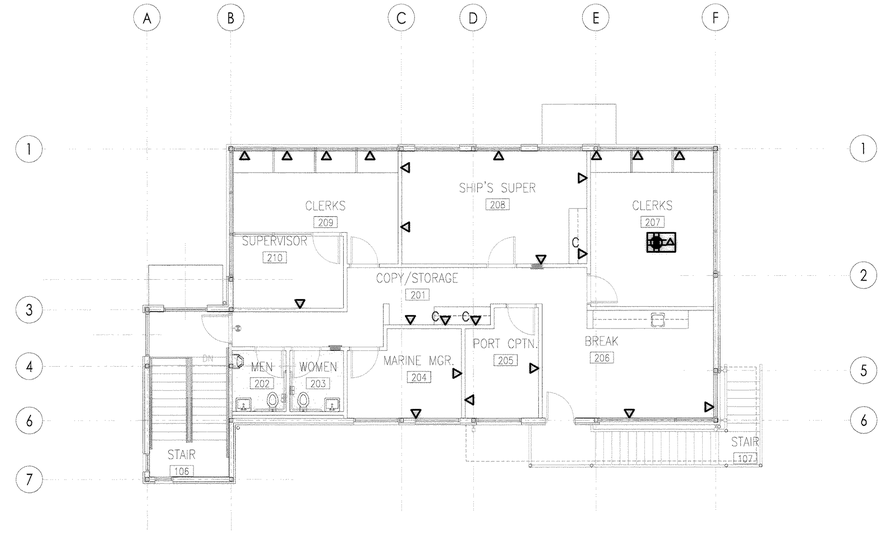
FILE NUMBER:MARINE-PWR-23003.DWG

user Jan 06,2005 - 4:14pm R:\dwgs\2035\203-003\elec\As-Built\Marine_pwr_23003.dwg user



1 FIRST FLOOR SYSTEMS PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg



2 SECOND FLOOR SYSTEMS PLAN

SCALE: 1/8"=1'-0" | BMM | xfp_marine-23003.dwg

GENERAL NOTES

1. PROVIDE ALL CONDUITS WITH PULL STRINGS.
2. PROVIDE CONDUIT CAP FOR ALL SPARE AND FOR FUTURE CONDUITS.

CONSTRUCTION NOTES

1. NOT USED.
2. J-BOX FOR FUTURE CARD READER. MOUNT AT +48", SEE DETAIL ON SHEET E1.105.
3. J-BOX ABOVE CEILING FOR FUTURE CARD ACCESS SYSTEM. SEE DETAIL ON SHEET E1.105.
4. BUILDING EC (CONTRACT #998154) TO PROVIDE CONDUIT ONLY TO 15' BEYOND EDGE OF BUILDING. CALLOUTS MATCH CONTRACT #998153 DRAWINGS. COORDINATE ALL CONNECTIONS WITH CONTRACT #998153 CONTRACTOR.

PROJECT NORTH

2' 8'
0 4' 16'

BCE ENGINEERS, INC.
6021 12TH STREET E., SUITE 200
TACOMA, WA 98424
(253) 922-0446 FAX (253) 922-0896

6321-17

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Helix
4021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499

MARK	REVISION	BY:	APPVD:	DATE:
RECORD DRAWINGS				

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

PROJECT ENGR.– DATE

CHECKED BY – DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
SYSTEMS PLAN

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ. VERT:
DRAWING SCALE: 1/8" = 1'

CONTRACT NUMBER: 998154
E NUMBER: E19776
PHASE: RECORD DRAWINGS

EP-~~5551-17~~

E3.300

SHEET 81 OF 230

FILE NUMBER:MARINE-SYS-23003.DWG

PANEL 3P1			3 ø	4 WIRE			120/208 VOLTS			400A MAIN BREAKER
SUSE RATED										PROVIDE WITH FEED THRU LUGS
SURFACE MOUNT					42 POLES		BOTTOM FEED			10,000 AIC MIN
LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIRC. BRKR.	A	B	C	CIRC. BRKR.	CIR. NO.	CIRCUIT DIRECTORY	LOAD
13400	CU-3A	7	3P	•			3P	2		
		9			•			4	HP-3A	37260
		11	60A			•	125A	6		
1389	RECEPT	13	1P-20A	•			1P-20A	8	EF-3A, EF-3B, EF-3C, EF-3D	564
268	RECEPT	15	1P-20A		•		1P-20A	10	CP-3A	500
	SPARE	17	1P-20A			•	3P	12	HP-3B	11425
900	RECEPT	19	1P-20A	•				14		
720	RECEPT	21	1P-20A		•		40A	16		
720	RECEPT	23	1P-20A			•	3P	18	HP-3C	11425
900	RECEPT	25	1P-20A	•				20		
1080	RECEPT	27	1P-20A		•		40A	22		
900	RECEPT	29	1P-20A			•	2P	24	HWT-3A	6000
500	RECEPT	31	1P-20A	•			40A	26		
500	RECEPT	33	1P-20A		•			28	SPACE	
500	RECEPT	35	1P-20A			•	3P	30	CU-3B	9000
720	RECEPT	37	1P-20A	•				32		
540	RECEPT	39	1P-20A		•		30A	34		
720	RECEPT	41	1P-20A			•	3P	36	CU-3C	9000
1416	LIGHTING - 1ST FLOOR	1	1P-20A	•				38		
249	LIGHTING - 1ST FLOOR	3	1P-20A		•		30A	40		
1148	LIGHTING-2ND FLOOR	5	1P-20A			•	1P-20A	42	SPARE	
26570	TOTAL VA= 111,744						CURRENT	310	AMPS	85174
	DIVERSITY %									
	DEMAND VA= 115,619						DEMAND CURRENT	321	AMPS	

PANEL 3P2			3 ø	4 WIRE			120/208 VOLTS			400A MAIN LUGS ONLY
SURFACE MOUNT					42 POLES		BOTTOM FEED			10,000 AIC MIN
LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIRC. BRKR.	A	B	C	CIRC. BRKR.	CIR. NO.	CIRCUIT DIRECTORY	LOAD
	SPARE	1	1P-20A	•			1P-20A	2	RECEPT	1000
	SPARE	3	1P-20A		•		1P-20A	4	RECEPT	1000
	SPARE	5	1P-20A			•	1P-20A	6	RECEPT	1000
900	RECEPT	7	1P-20A	•			1P-20A	8	RECEPT - MICROWAVE	1000
900	RECEPT	9	1P-20A		•		1P-20A	10	RECEPT - MICROWAVE	1000
900	RECEPT	11	1P-20A			•	1P-20A	12	RECEPT - MICROWAVE	1000
500	VENDING MACHINE	13	1P-20A	•			1P-20A	14	RECEPT - MICROWAVE	1000
500	VENDING MACHINE	15	1P-20A		•		1P-20A	16	RECEPT - MICROWAVE	1000
500	VENDING MACHINE	17	1P-20A			•	1P-20A	18	RECEPT - MICROWAVE	1000
500	TIMECLOCK/PHOTOCELL	19	1P-20A	•			2P	20	EWH-3A	1125
500	VENDING MACHINE	21	1P-20A		•		20A	22		
500	VENDING MACHINE	23	1P-20A			•		24		
		25	1P-20A	•				26		
		27	1P-20A		•			28		
		29	1P-20A			•		30		
		31	1P-20A	•				32		
		33	1P-20A		•			34		
		35	1P-20A			•		36		
		37	1P-20A	•			3P	38	PANEL 3C1	17600
		39	1P-20A		•			40		
		41	1P-20A			•	100A	42		
5700	TOTAL VA= 33,425						CURRENT	93	AMPS	27725
	DIVERSITY %									
	DEMAND VA= 29,525						DEMAND CURRENT	82	AMPS	

PANEL 3C1			3 ø	4 WIRE			120/208 VOLTS			100A MAIN LUGS ONLY
SURFACE MOUNT					42 POLES		BOTTOM FEED			10,000 AIC MIN
LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIRC. BRKR.	A	B	C	CIRC. BRKR.	CIR. NO.	CIRCUIT DIRECTORY	LOAD
800	COMP. RECEPT.	1	1P-20A	•			1P-20A	2	COMP. RECEPT.	1200
800	COMP. RECEPT.	3	1P-20A		•		1P-20A	4	COMP. RECEPT.	1200
1200	COMP. RECEPT.	5	1P-20A			•	1P-20A	6	COMP. RECEPT.	800
800	COMP. RECEPT.	7	1P-20A	•			1P-20A	8	COMP. RECEPT.	800
800	COMP. RECEPT.	9	1P-20A		•		1P-20A	10	COMP. RECEPT.	800
800	COMP. RECEPT.	11	1P-20A			•	1P-20A	12	COMP. RECEPT.	800
800	COMP. RECEPT.	13	1P-20A	•			1P-20A	14	COMP. RECEPT.	800
1200	COMP. RECEPT.	15	1P-20A		•		1P-20A	16	COMP. RECEPT.	800
800	COMP. RECEPT.	17	1P-20A			•	1P-20A	18	COMP. RECEPT.	800
800	COMP. RECEPT.	19	1P-20A	•			1P-20A	20	SPARE	
800	COMP. RECEPT.	21	1P-20A		•		1P-20A	22	SPARE	
	SPARE	23	1P-20A			•	1P-20A	24	SPARE	
	SPARE	25	1P-20A	•				26		
	SPARE	27	1P-20A		•			28		
	SPARE	29	1P-20A			•		30		
		31		•				32		
		33			•			34		
		35				•		36		
		37		•			3P	38		
		39			•			40	TVSS	
		41				•	30A	42		
9600	TOTAL VA= 17,600						CURRENT	49	AMPS	8000
	DIVERSITY %									
	DEMAND VA= 17,600						DEMAND CURRENT	49	AMPS	

FILE NUMBER:MARINE-PNL-SCH-23003.DWG

PORT OF TACOMA
PORT OF TACOMA, U.S.A.
PORT OF TACOMA, P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499
Helix

MARK	REVISION	BY:	APPROVED	DATE:
	RECORD DRAWINGS			

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE:
PORT ADDRESS:
PORT PARCEL:

CHECKED BY – DATE

PROJECT ENGR.– DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
MARINE BUILDING
PANEL SCHEDULES

EP-~~5551-17~~

E3.400

SHEET 82 OF 230

CONTRACT NUMBER: 998154

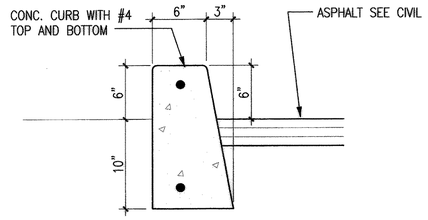
E NUMBER: E1974

PHASE: RECORD DRAWINGS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/8" = 1'

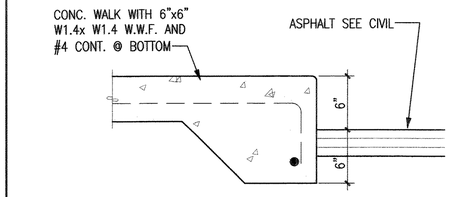
BCE ENGINEERS, INC.
6021 12TH STREET E. SUITE 200
TACOMA, WA 98424
(253) 922-0446 FAX (253) 922-0896

6321-17



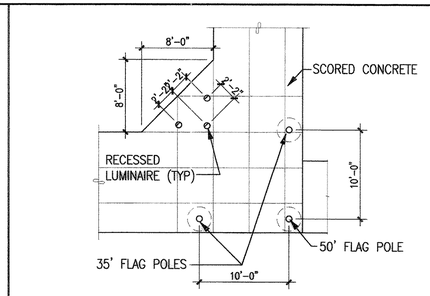
1 CURB DETAIL

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.0



2 SIDEWALK EDGE

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.0

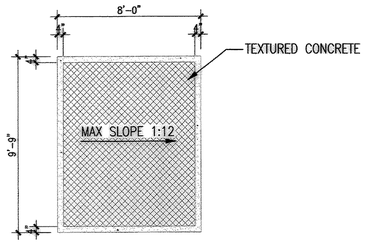


3 ENL'GED PLAN FLAG POLES

SCALE: 1/8" = 1'-0" | PC | E1974A7.DT.0

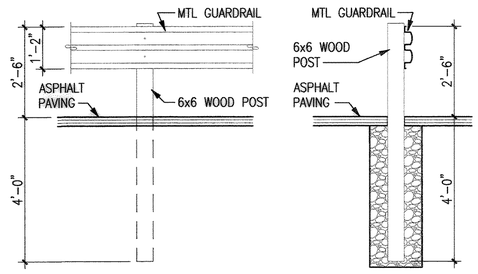
4 DELETED

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.0



5 TEXTURE SIDEWALK

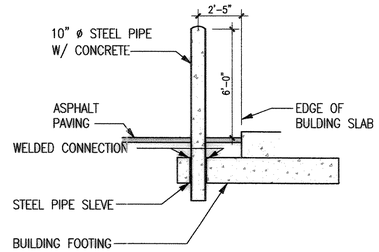
SCALE: 1/4" = 1'-0" | PC | E1974A7.DT.0



6 GUARDRAIL

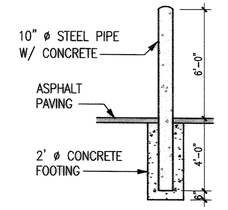
GENERATOR SHOP

SCALE: 1/2" = 1'-0" | PC | E1974A7.DT.0



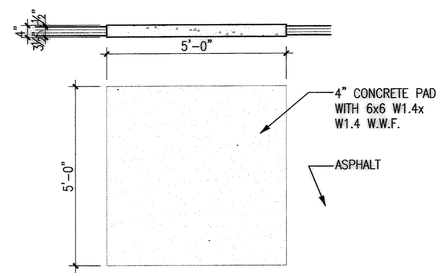
7 BOLLARD - TYPE 3

SCALE: 1/4" = 1'-0" | PC | E1974A7.DT.0



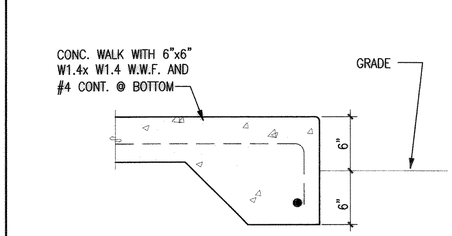
8 BOLLARD - TYPE 1

SCALE: 1/4" = 1'-0" | PC | E1974A7.DT.0



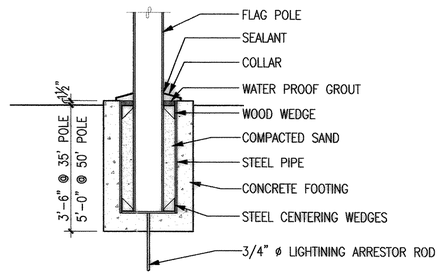
9 ENTRANCE APRON

SCALE: 1-1/2" = 1'-0" | PC | E1974A1.DT.0



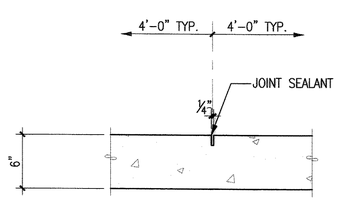
10 SIDEWALK EDGE @ GRADE

SCALE: 1-1/2" = 1'-0" | PC | E1974A1.DT.1



11 FLAG POLE BASE

SCALE: 1-1/2" = 1'-0" | PC | E1974A1.DT.0



12 CONTROL JOINT

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.0

13 DELETED

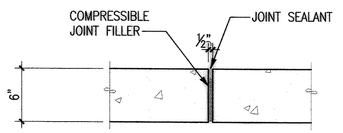
SCALE: 1-1/2" = 1'-0" | PC | E1974A1.DT.1

14 DELETED

SCALE: 1-1/2" = 1'-0" | PC | E1974A1.DT.1

15 DELETED

SCALE: 1/2" = 1'-0" | PC | E1974A1.DT.1



16 EXPANSION JOINT

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.0

PORT OF TACOMA
U.S.A.
PORT OF TACOMA, P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
Helix
6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9082
fax: 253 . 922 . 6497

RECORD DRAWING

FILE NUMBER: C:\E1974A7.800.DWG

APPROVED

CHIEF ENGINEER - DATE

DRAWING DATE: 12/20/04
PORT PROJECT:
PORT PARCEL:

LC CHECKED BY - DATE 8/22/03
LC PROJECT ENGR. - DATE 8/22/03

PORT OF TACOMA
PIERCE COUNTY TERMINAL
SITE DETAILS

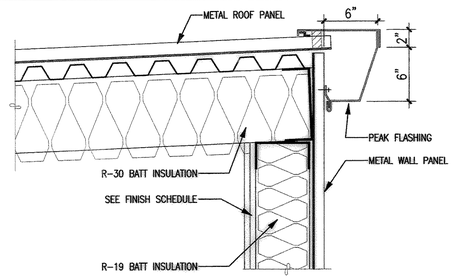
TOWNSHIP: 20 NORTH
RANGE: 3 EAST
SECTION: 34
DRAWING SCALE: 1-1/2" = 1'-0"

CONTRACT NUMBER: 9981S4
PHASE: RECORD DRAWING

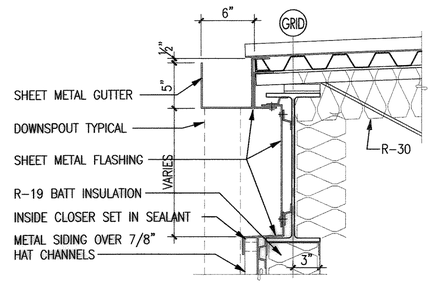
EP- 6321-17

SHEET 217 OF 290

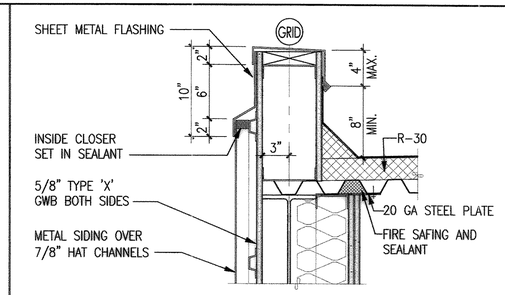
A7.600



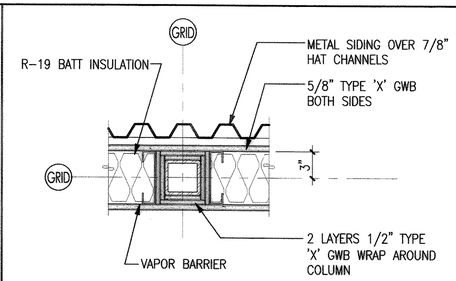
1 RIDGE
SCALE: 3/4" = 1'-0" | PC | E1974A7.DT.1



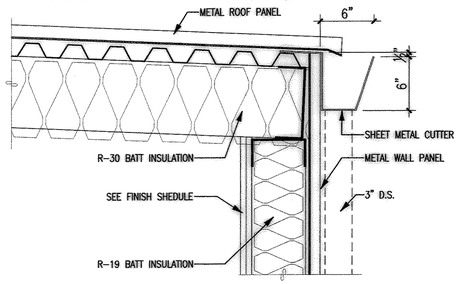
2 EAVE
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



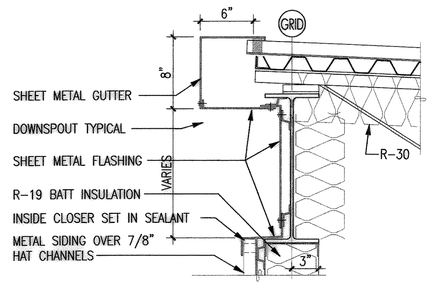
3 PARAPET
ADMINISTRATION BUILDING
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



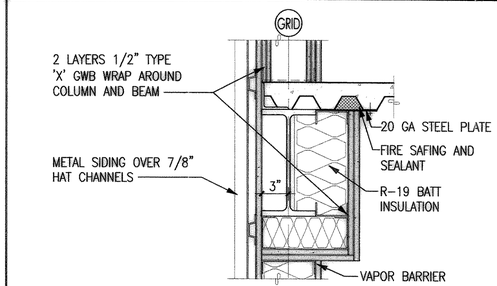
4 COLUMN
ADMINISTRATION BUILDING
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



5 EAVE
SCALE: 3/4" = 1'-0" | PC | E1974A7.DT.1



6 RIDGE
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



7 BEAM
ADMINISTRATION BUILDING
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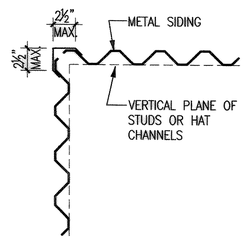

8 CORNER CLOSURE - VERT. SIDING
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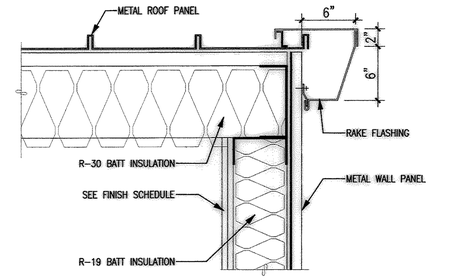

9 RAKE
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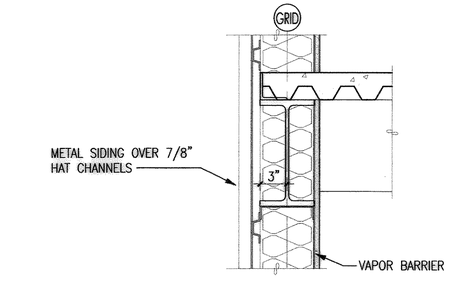

10 BEAM
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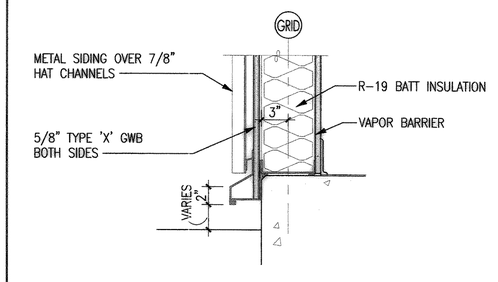
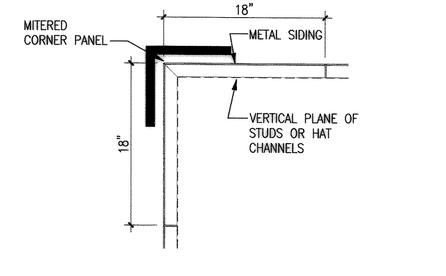


11 BASE
ADMINISTRATION BUILDING
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



12 CORNER CLOSURE - HORZ. SIDING
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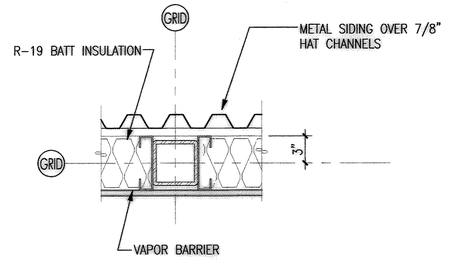

13 COLUMN
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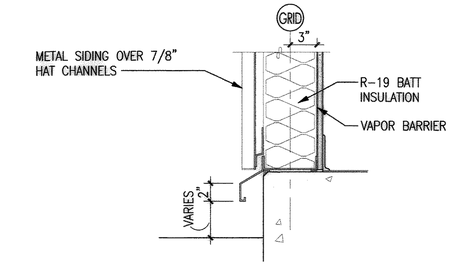
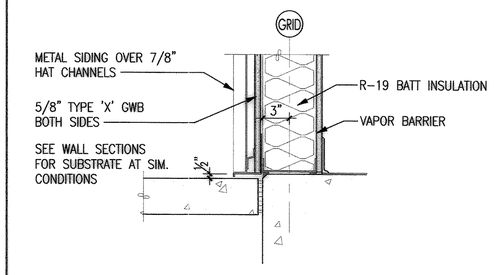
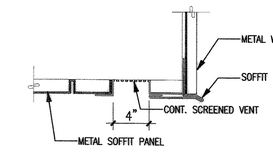


14 BASE
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



15 BASE
ADMINISTRATION BUILDING
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.1



16 SOFFIT
SCALE: 1-1/2" = 1'-0" | PC | E1974A1.DT.1

PORT OF TACOMA
U.S.A.
PORT OF TACOMA, P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
Helix
6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.4000
fax: 253.922.6499

RECORD DRAWING

APPROVED
CHIEF ENGINEER - DATE
DRAWING DATE: 12/20/04
CORRECTIONS:
PORT PARCEL:

LC CHECKED BY - DATE 8/22/03
LC PROJECT ENGR. - DATE 8/22/03

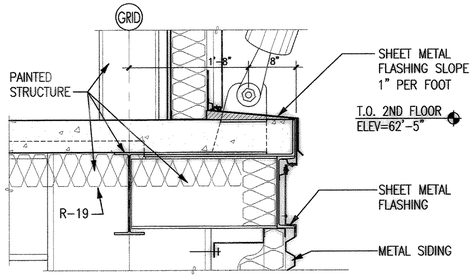
TOWNSHIP: RANGE: SECTION:
DRAWING SCALE: 1-1/2" = 1'-0"

CONTRACT NUMBER: 998154
FINAL NUMBER: E1974
PHASE: RECORD DRAWING

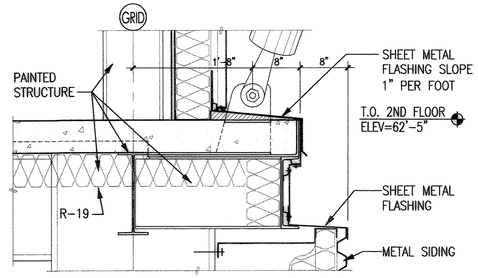
PORT OF TACOMA
PIERCE COUNTY TERMINAL
EXTERIOR WALL DETAILS

EP-[illegible] 6321-17
SHEET 218 OF 230
A7.601

FILE NUMBER:C:\FILES\FILENAME.DWG



1 SILL @ TOWER — MAINTENANCE BUILDING
SCALE: 1" = 1'-0" | PC | E1974A7.DT.2



2 SILL @ TOWER — MAINTENANCE BUILDING
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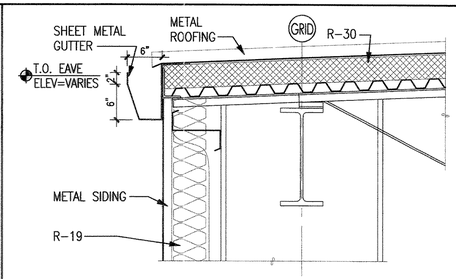
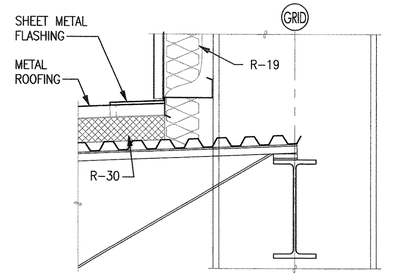
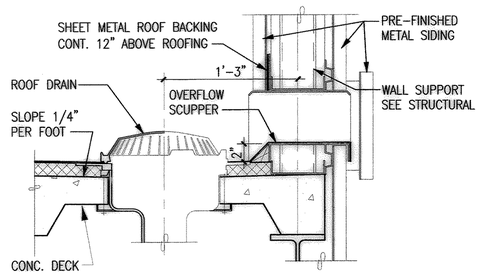


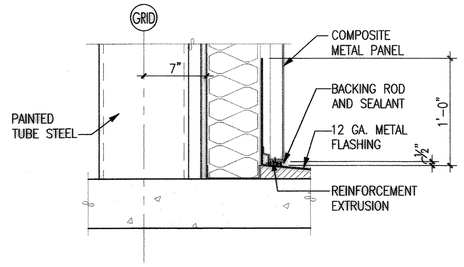
3 EAVE — MAINTENANCE BUILDING
SCALE: 1" = 1'-0" | PC | E1974A7.DT.2



4 LEAN-TO TRANSITION — MAINTENANCE BUILDING
SCALE: 1" = 1'-0" | PC | E1974A7.DT.4



5 ROOF DRAIN — ADMINISTRATION BUILDING
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.2



6 METAL PANEL SILL — MAINTENANCE BUILDING
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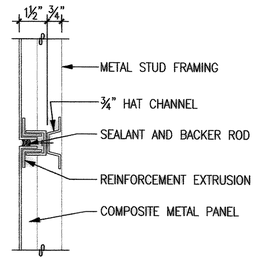

7 TYPICAL METAL PANEL JOINT
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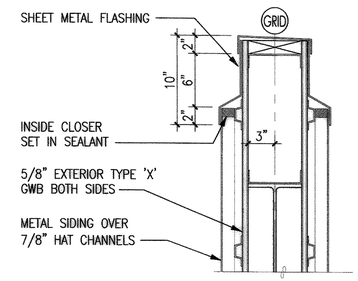

8 MECHANICAL PARAPET — ADMIN. BUILDING
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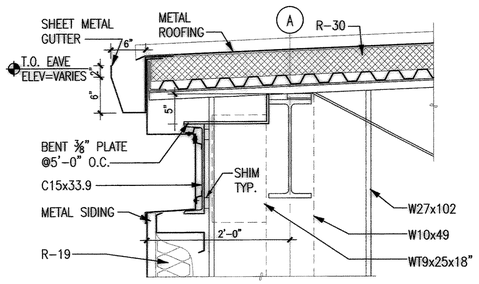
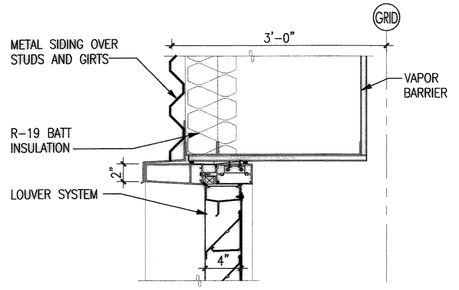


9 EAVE WITH REVEAL — MAINTENANCE BUILDING
SCALE: 1" = 1'-0" | PC | E1974A7.DT.2



10 LOUVER HEAD
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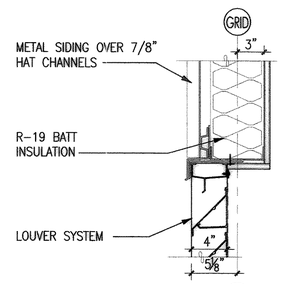
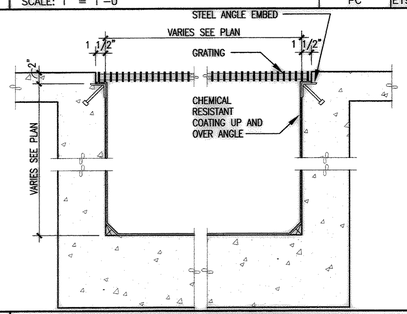


11 LOUVER HEAD
SCALE: 1-1/2" = 1'-0" | PC | LOUVER.DWG



13 CONTAINMENT PIT
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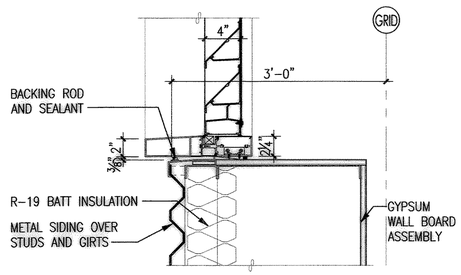
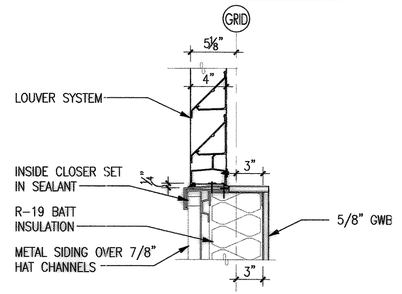


14 LOUVER SILL
SCALE: 1-1/2" = 1'-0" | PC | LOUVER.DWG



15 LOUVER SILL
SCALE: 1-1/2" = 1'-0" | PC | LOUVER.DWG

16 DELETED
SCALE: NTS | PC | E1974A7.DT.2

FILE NUMBER: C:\E1974A7.602.DWG

RECORD DRAWING

PORT OF TACOMA
TACOMA, USA

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Helix
4021 12th street east
suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499

APPROVED
CHIEF ENGINEER - DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY - DATE 8/22/03
LC PROJECT ENGR. - DATE 8/22/03

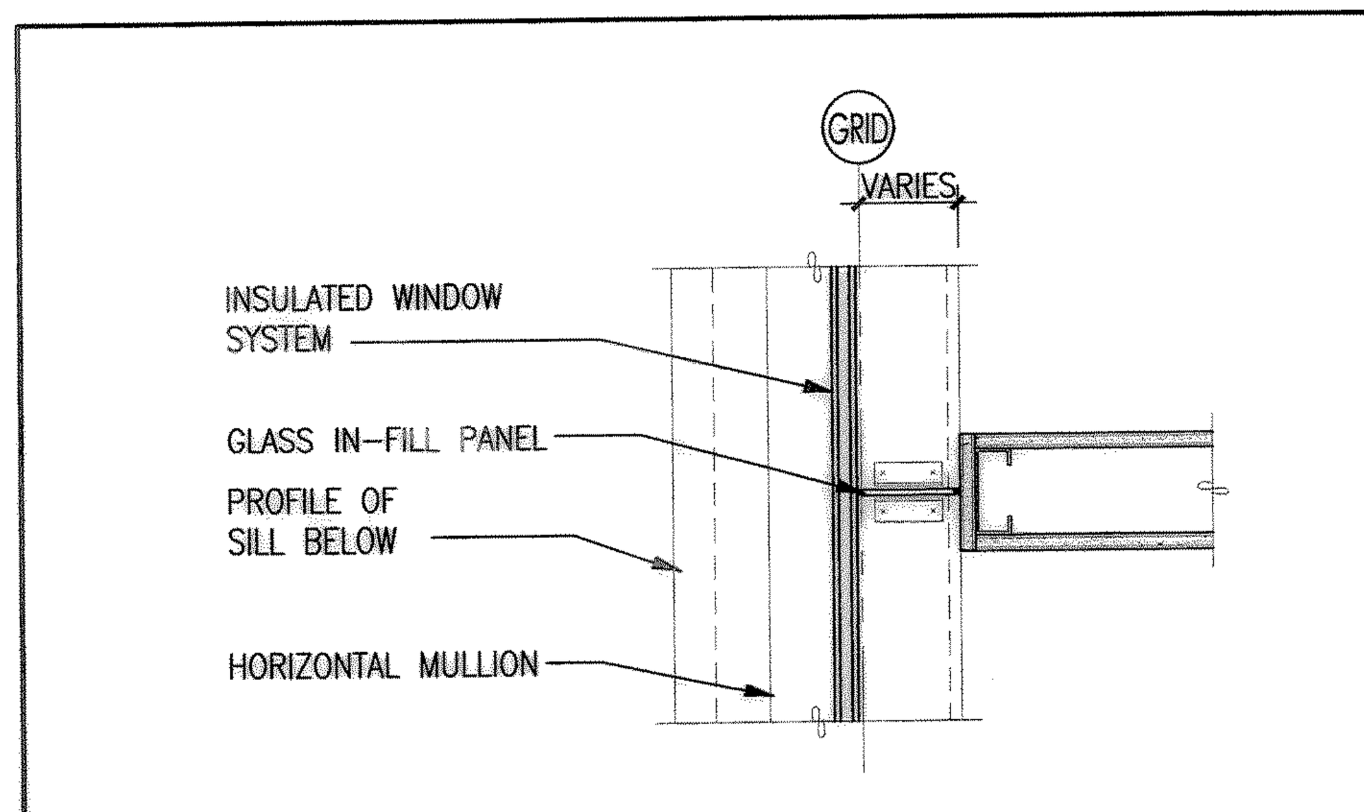
TOWNSHIP: RANGE:
DATUM: HORIZ: SECTION:
DRAWING SCALE: 1-1/2" = 1'-0" VERT:

EP 6321-17

PORT OF TACOMA
PIERCE COUNTY TERMINAL
EXTERIOR WALL DETAILS

CONTRACT NUMBER: 98154
E NUMBER: E1974
PHASE: RECORD DRAWING

SHEET 210 OF 230
A7.602



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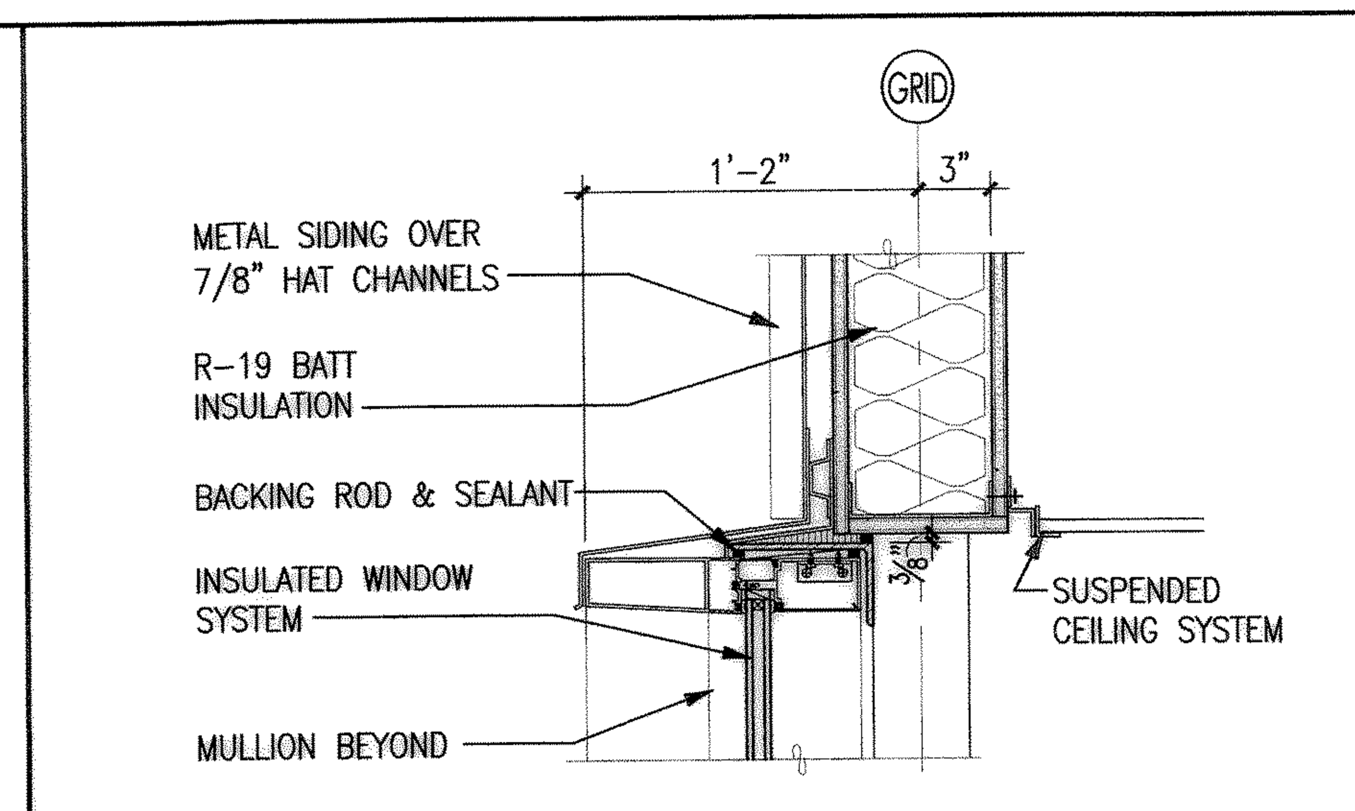

2 HEAD
ADMINISTRATION BUILDING
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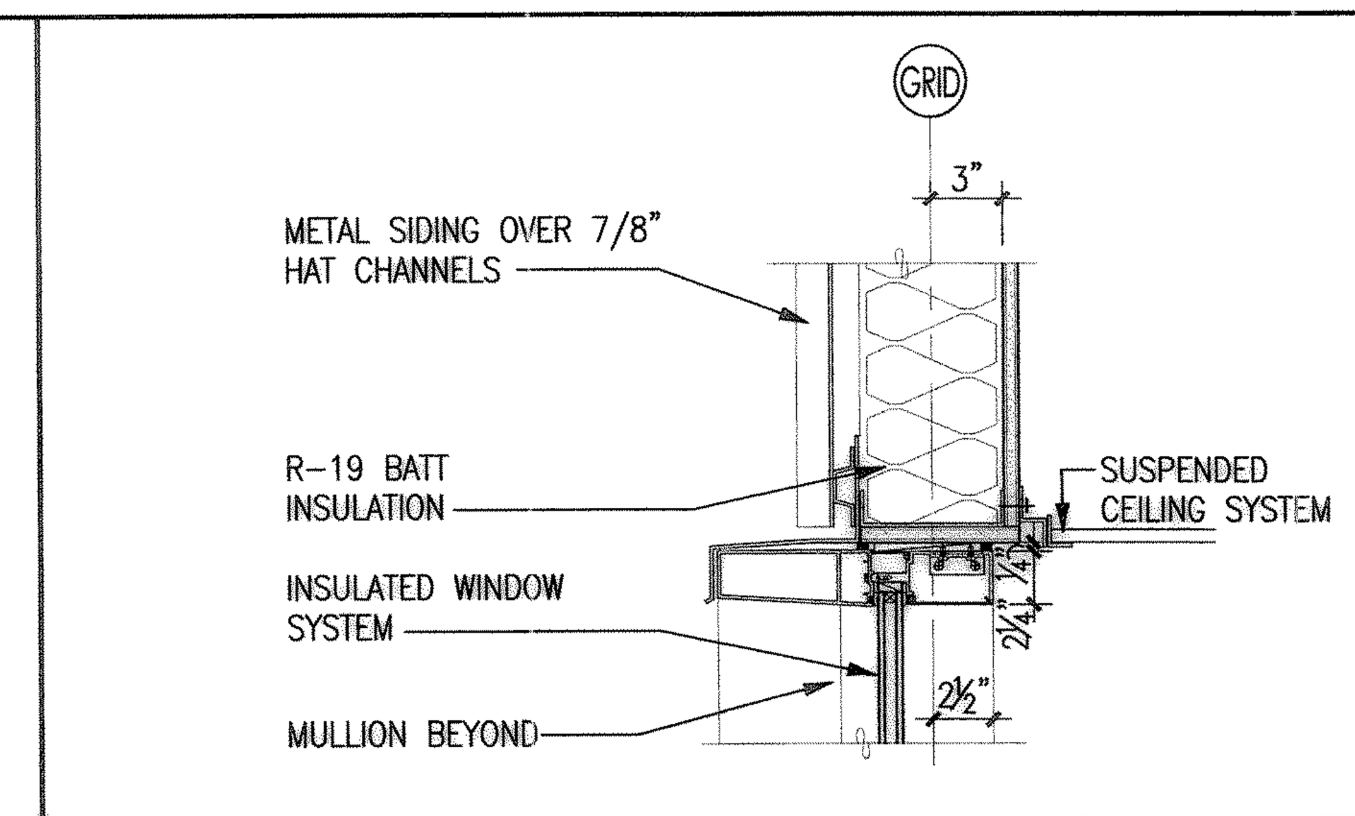

3 HEAD
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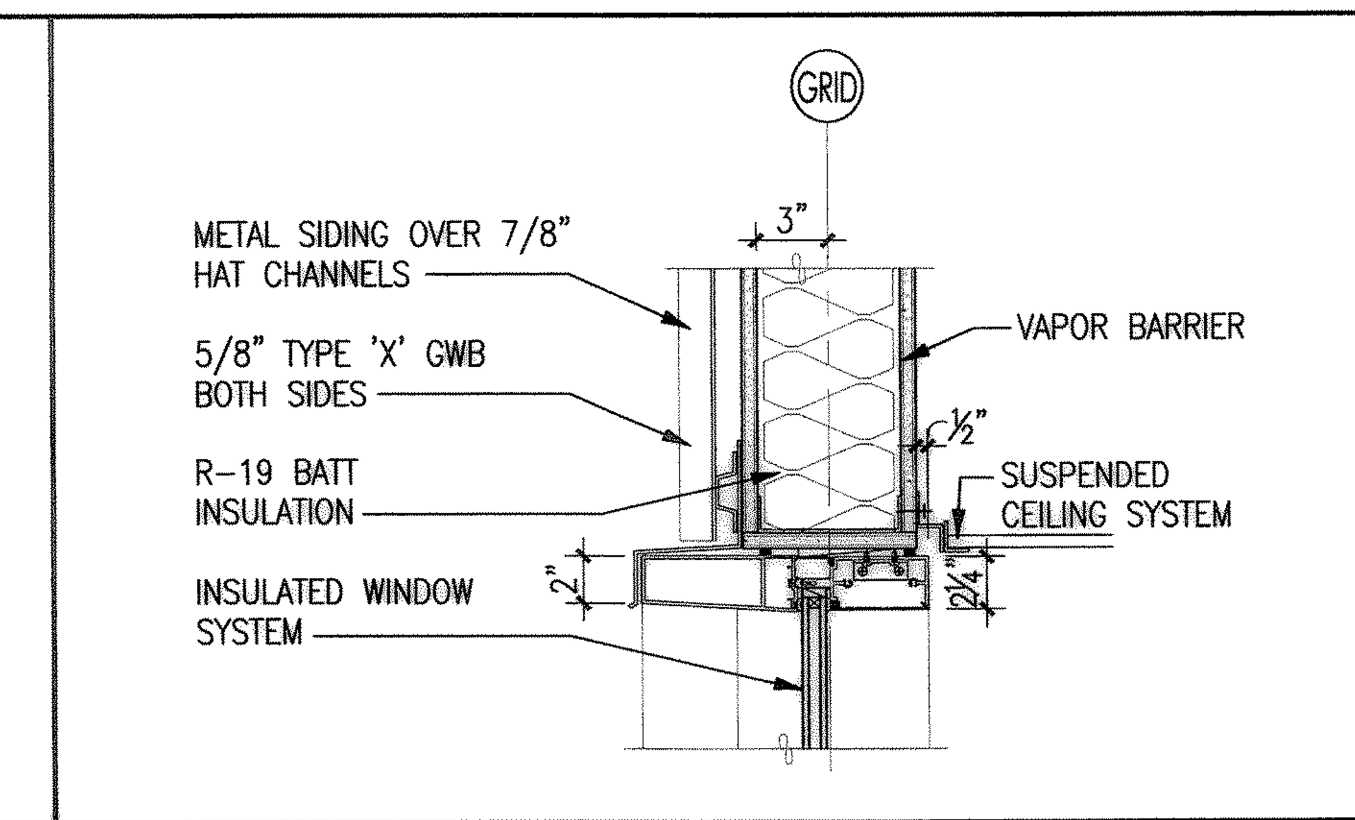

4 HEAD
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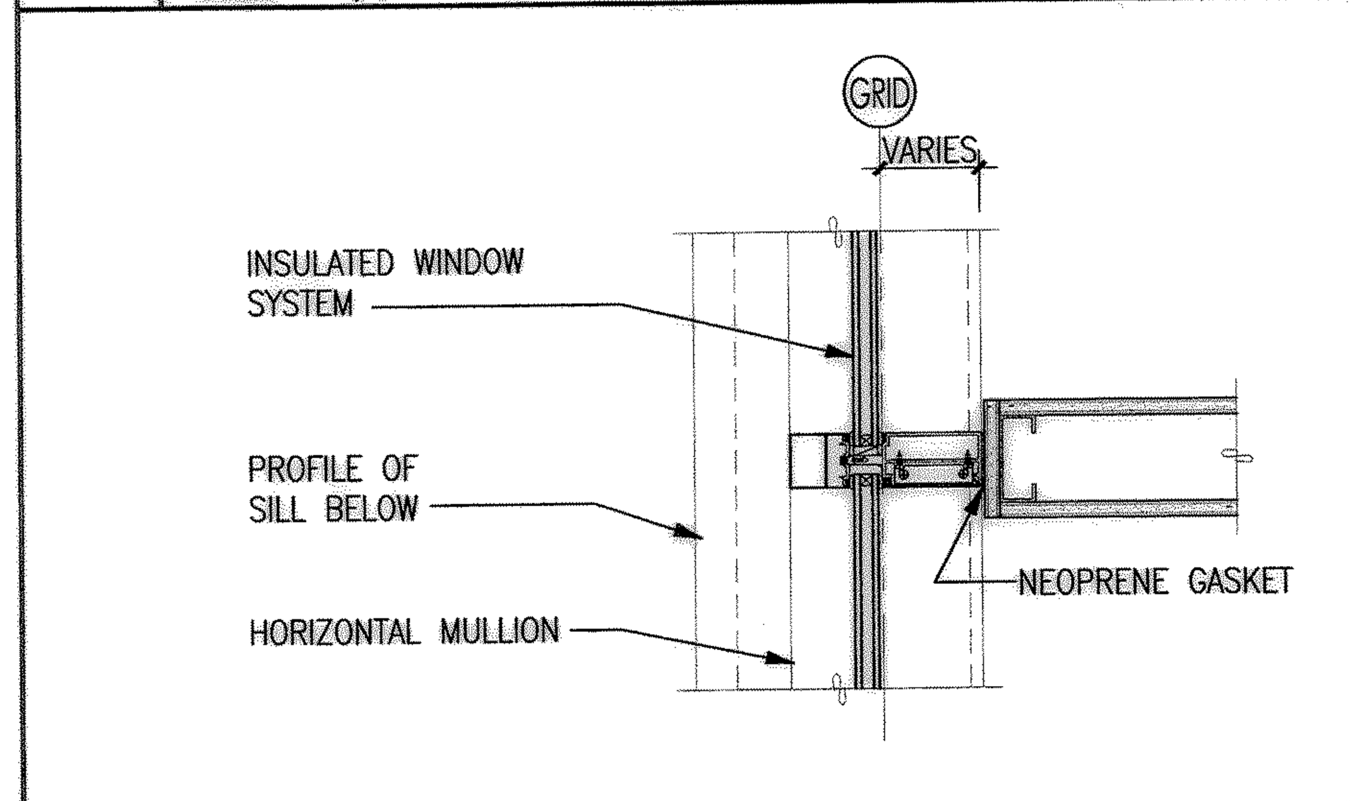

5 INTERMEDIATE MULLION @ WALL
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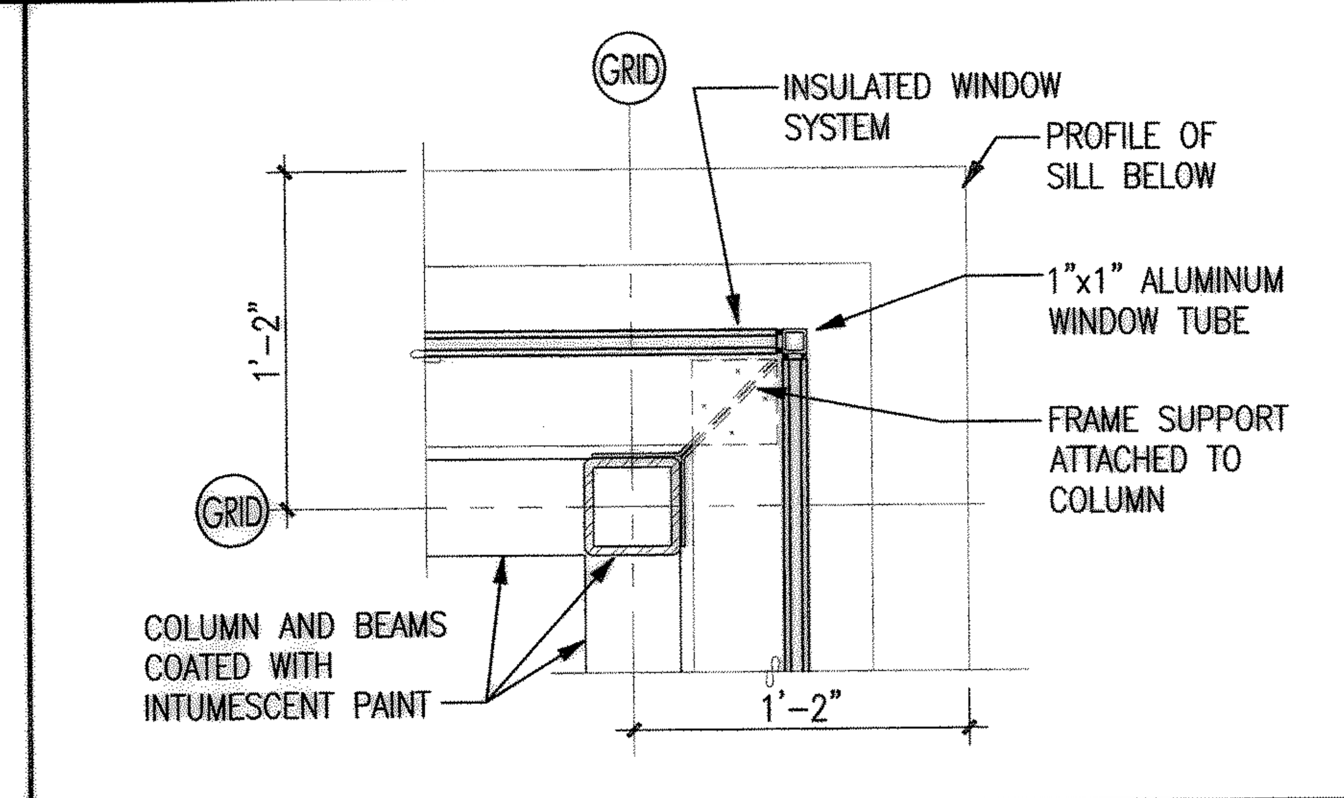

6 CORNER
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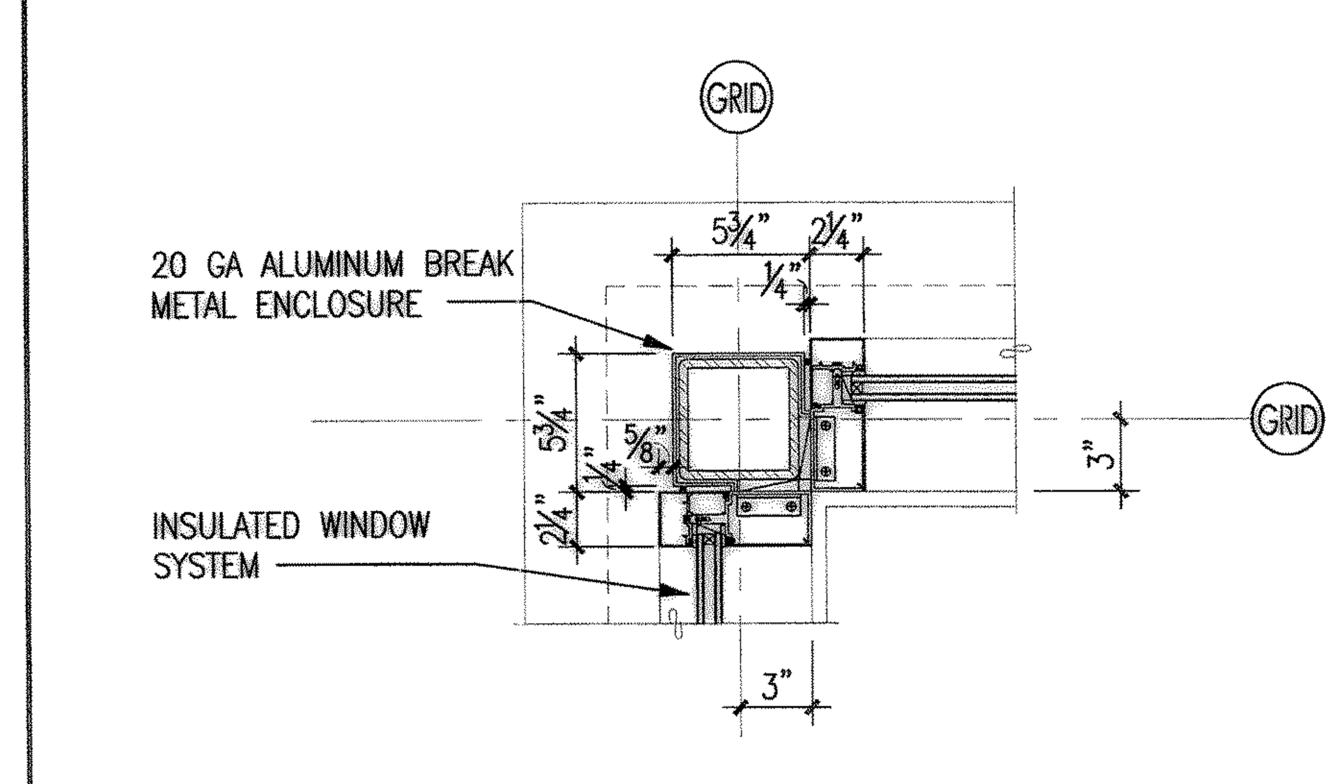

7 CORNER
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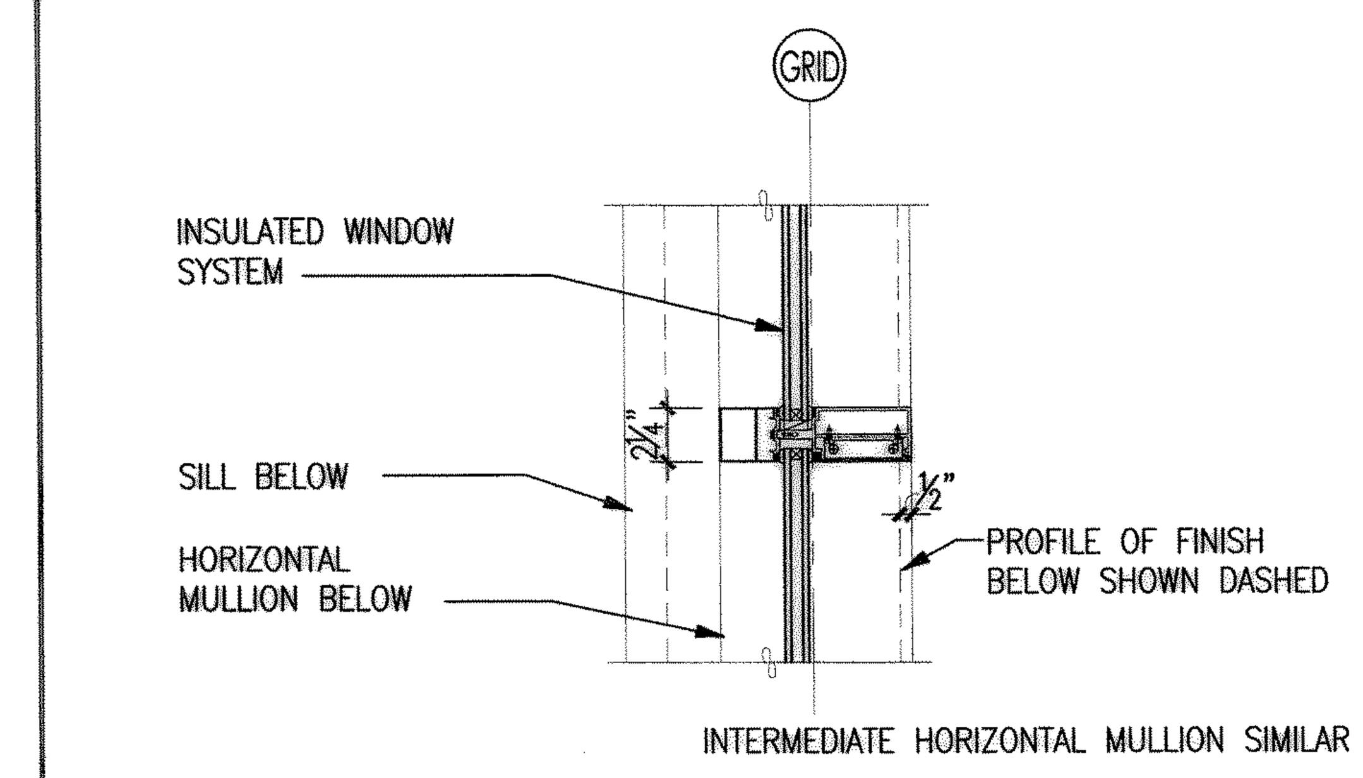

8 INTERMEDIATE MULLION
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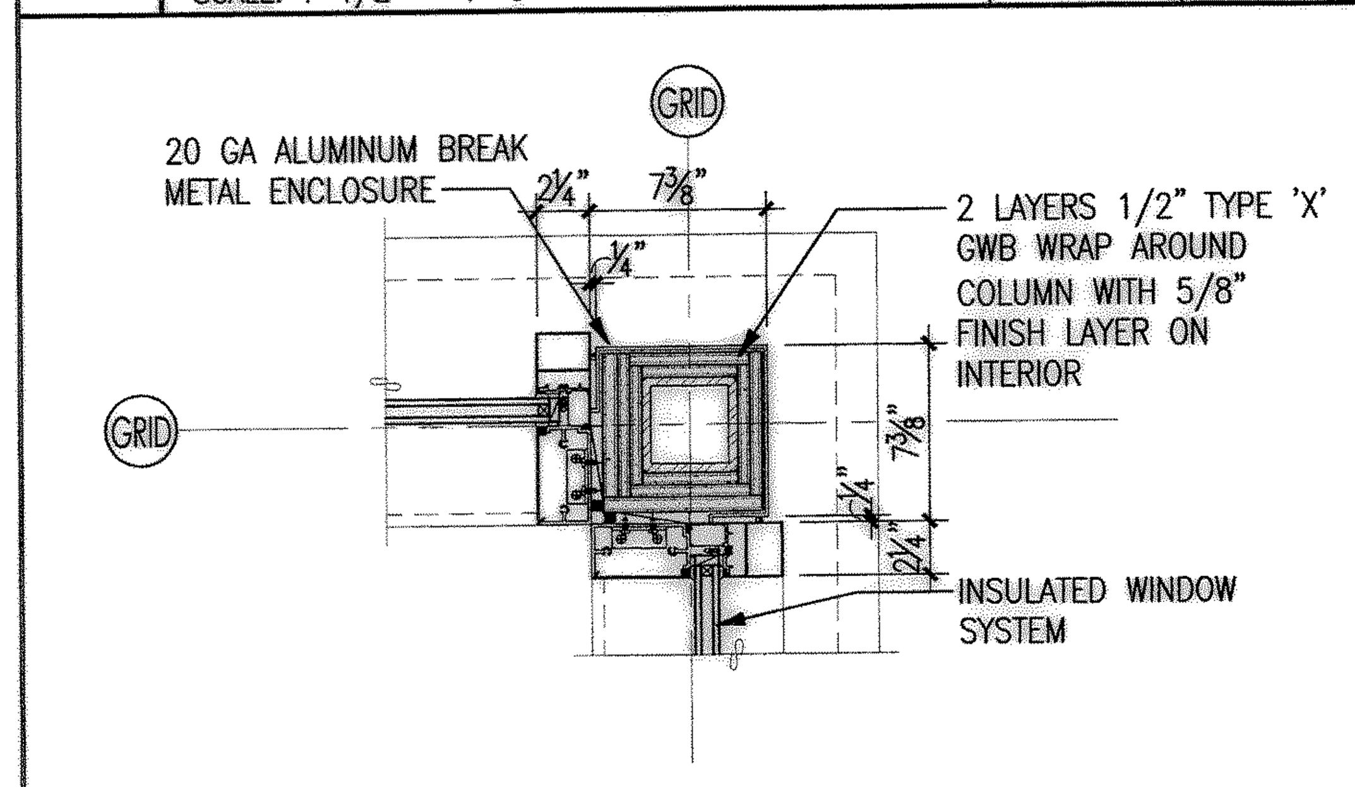
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.3



9 CORNER
ADMINISTRATION BUILDING
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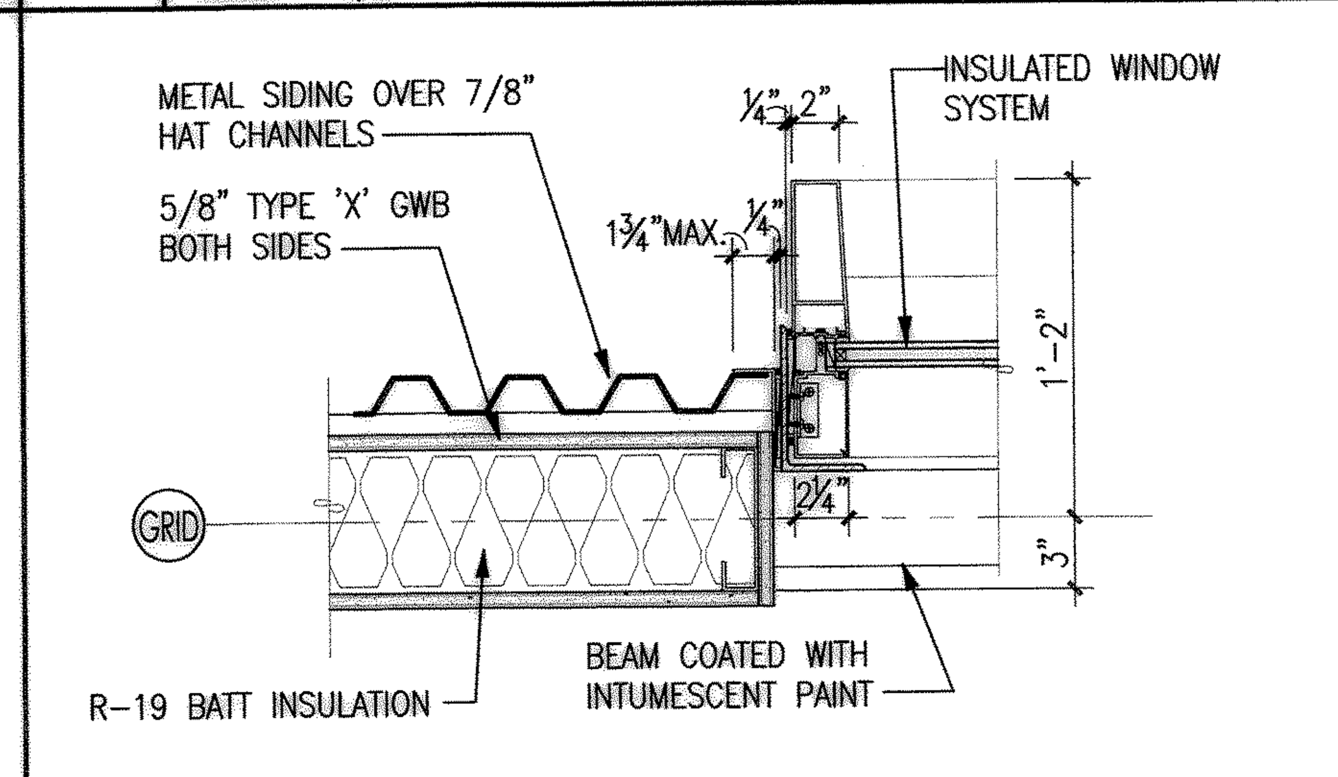

10 JAMB
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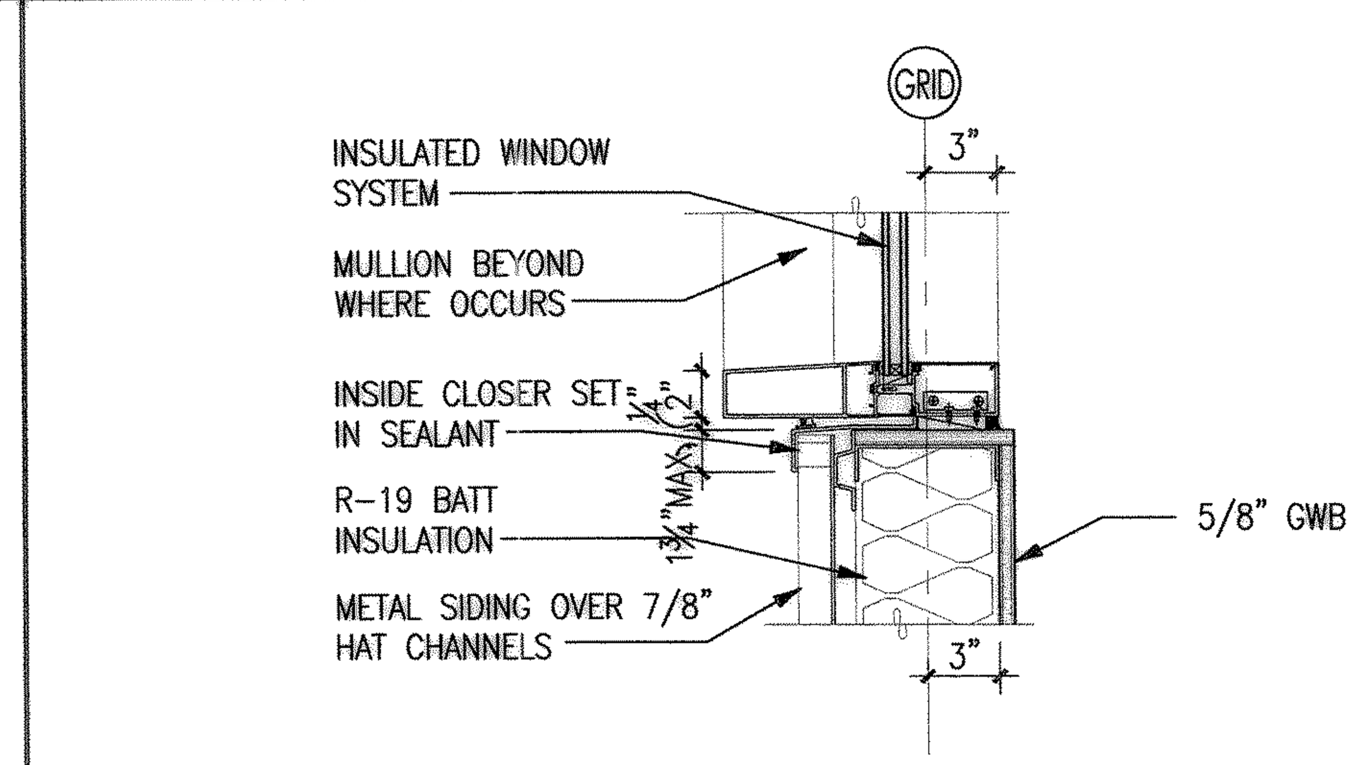

11 SILL
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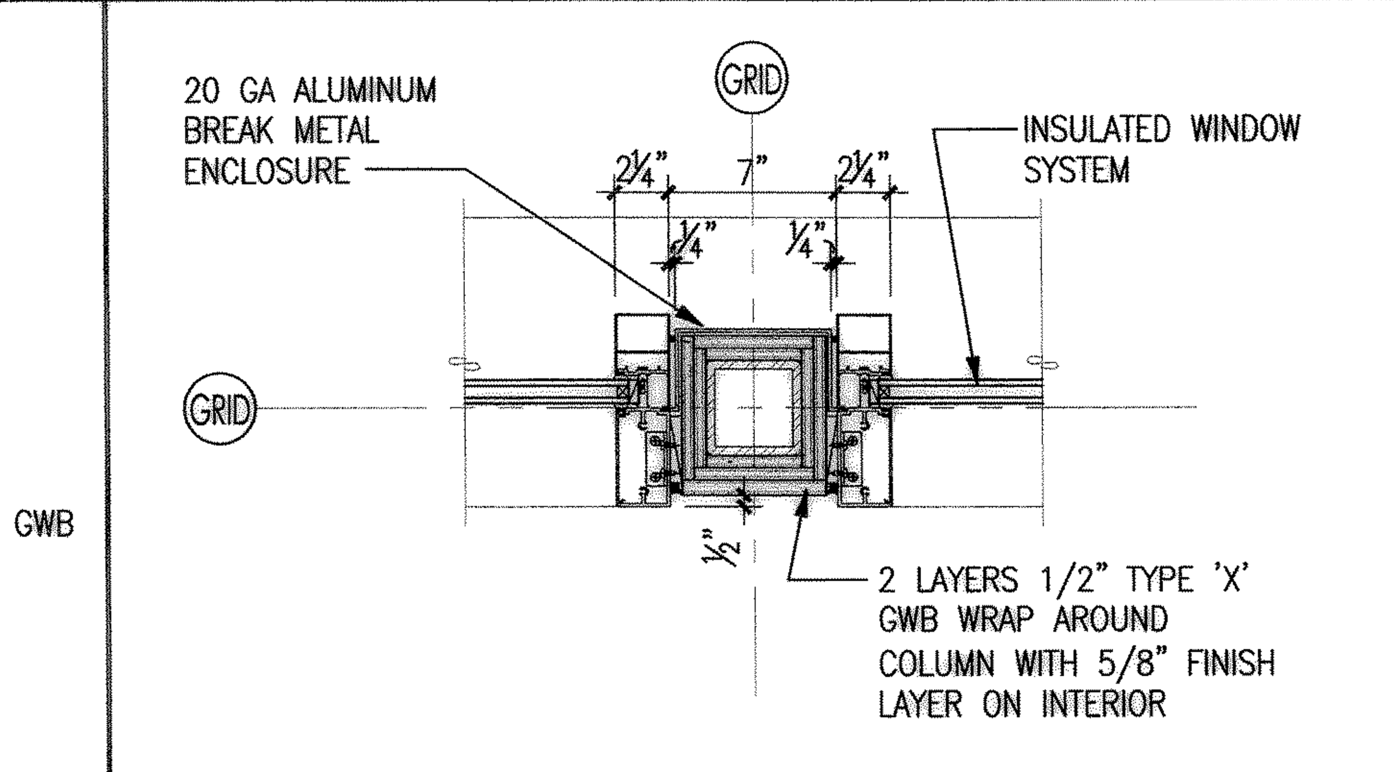

12 JAMB @ COLUMN
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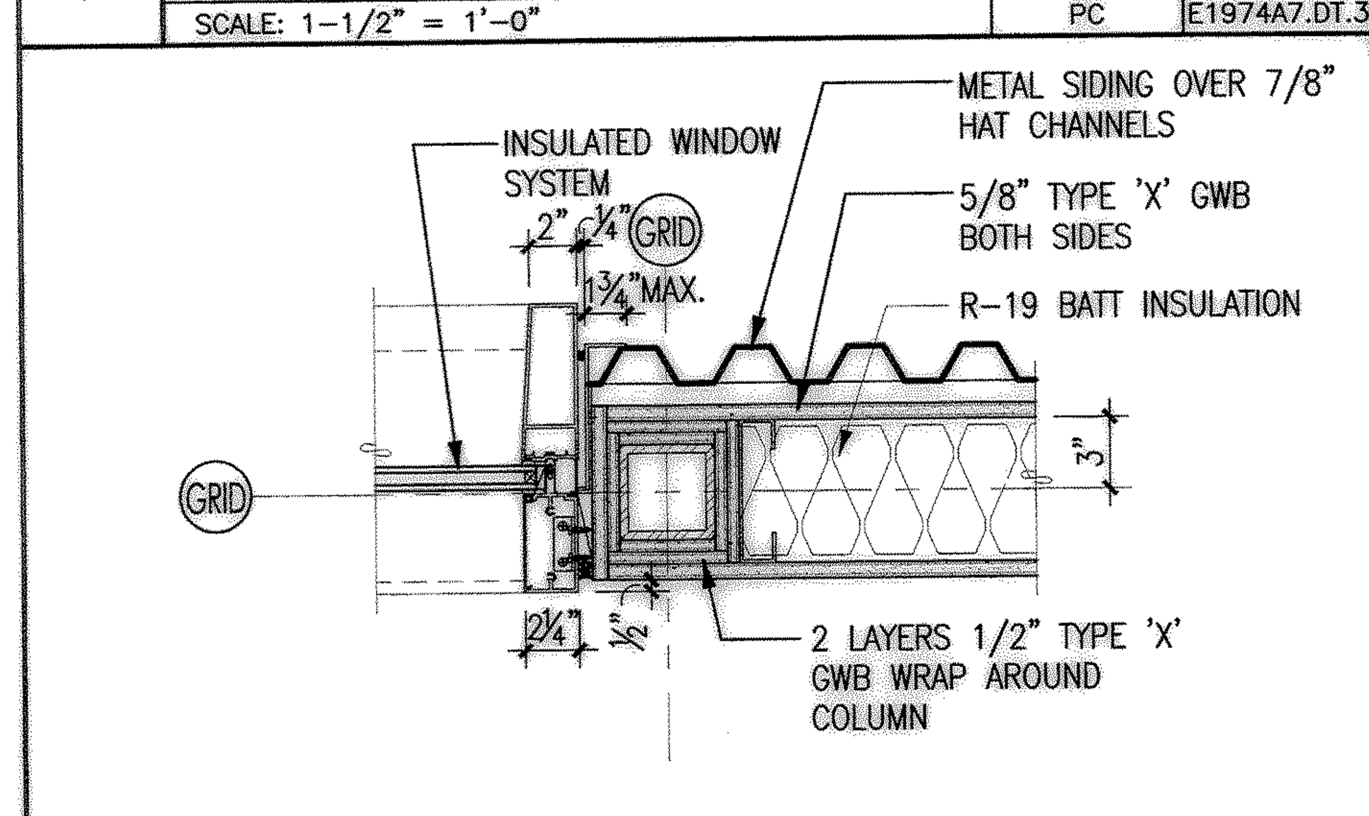

13 JAMB @ COLUMN
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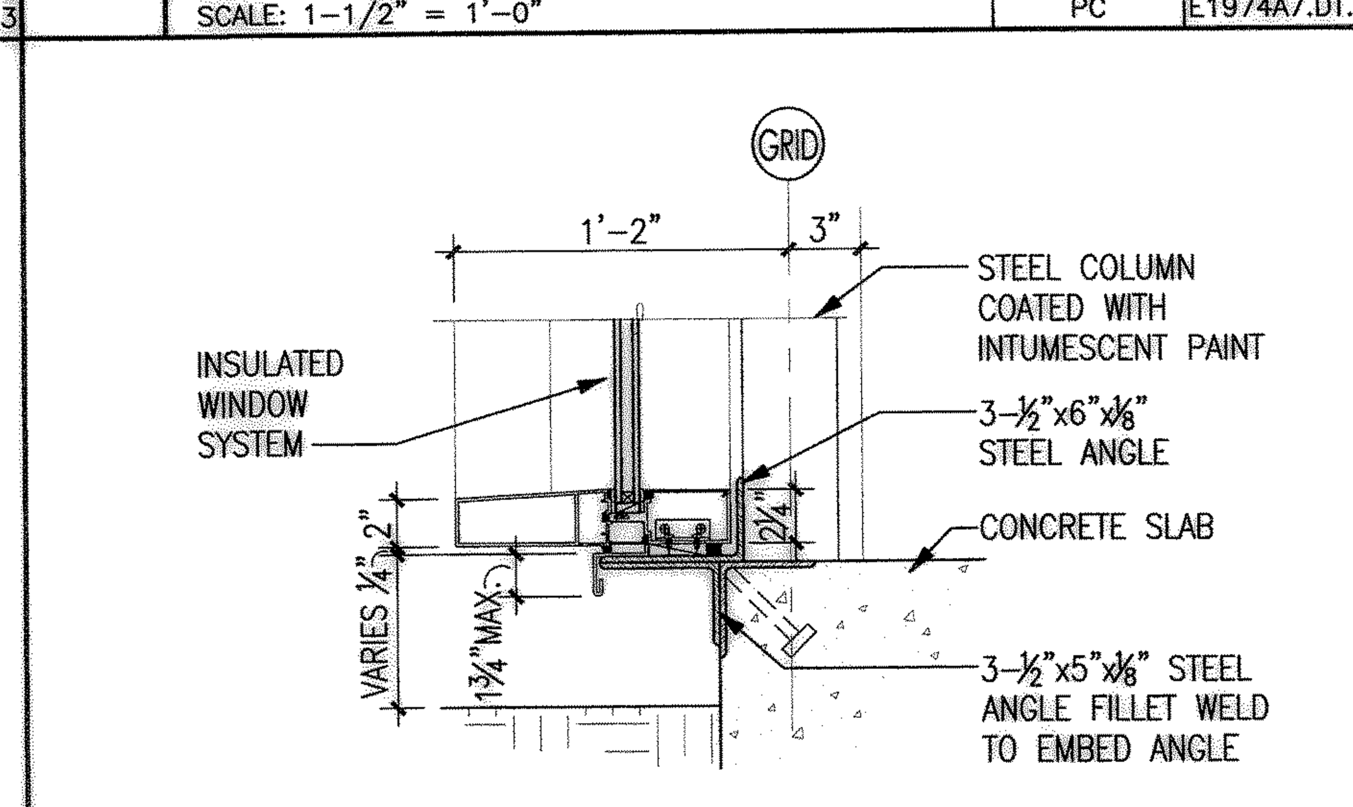

14 SILL
ADMINISTRATION BUILDING
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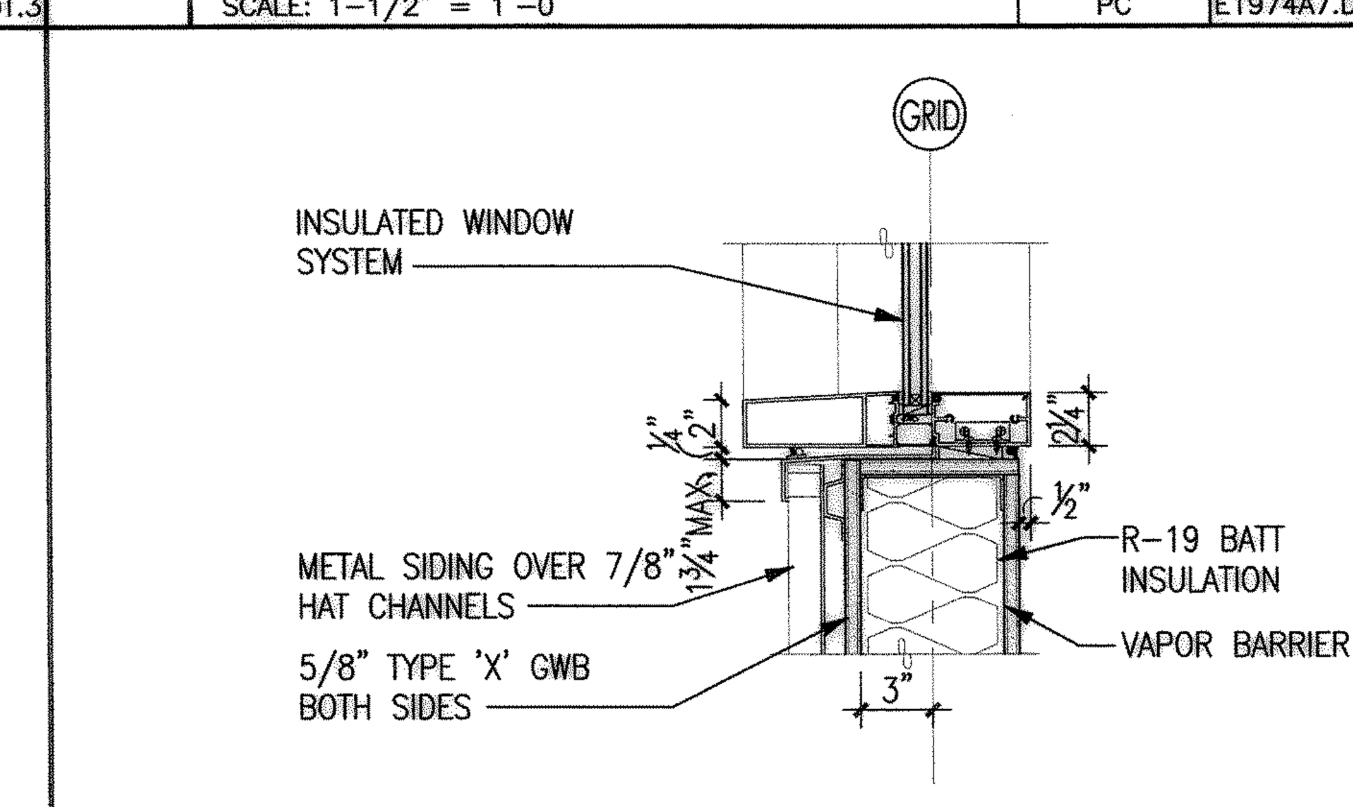

16 SILL
ADMINISTRATION BUILDING
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.3

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Helix
6021 12th street east
suite 201
tacoma, wa 98424
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fax: 253.922.6499

RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

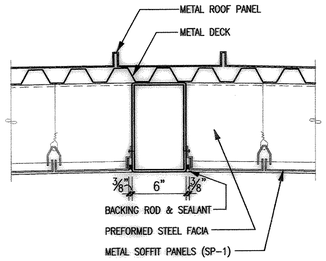
DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LC 8/22/03
CHECKED BY – DATE
LC 8/22/03
PROJECT ENGR.– DATE

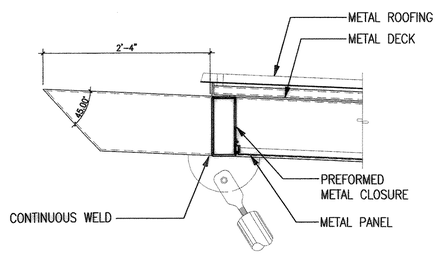
PORT OF TACOMA
PIERCE COUNTY TERMINAL
WINDOW & STORE FRONT DETAILS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1-1/2" = 1'-0"

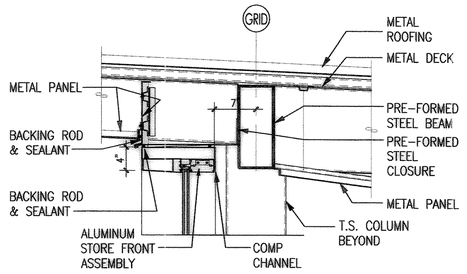
EP- 6321-17
A7.603
SHEET 220 OF 230
CONTRACT NUMBER 998154
E NUMBER: E1974
PHASE: RECORD DRAWING



1 TOWER SOFFIT PANELS — MAINT. BLDG.
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



2 EAVE — MAINT. BLDG.
SCALE: 1" = 1'-0" | PC | E1974A7.DT.4



3 WINDOW HEAD — MAINT. BLDG.
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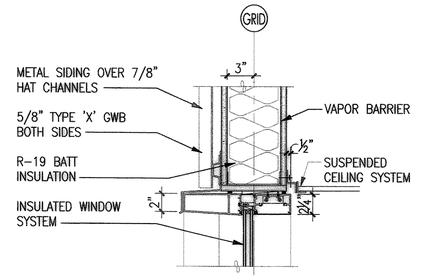

4 TRANSOM HEAD — ADMIN. BLDG.
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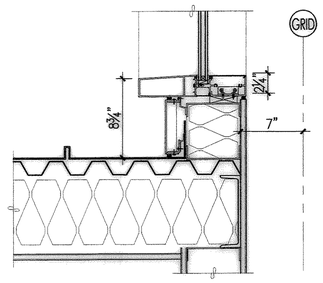
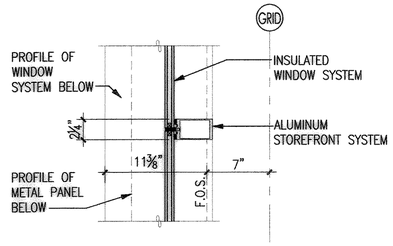
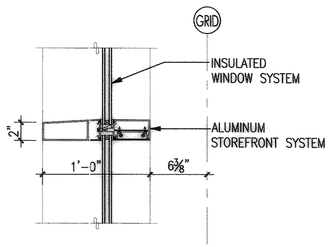


5 TOWER STAIR ROOF TRANSITION
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



6 VERTICAL MULLION — MAINT. BLDG.
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



7 INTERMEDIATE HORIZONTAL MULLION — MAINT. BLDG.
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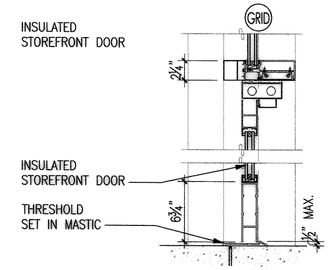

8 STOREFRONT — ADMIN. BLDG.
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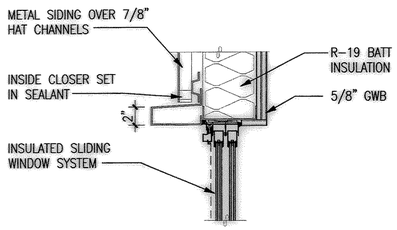
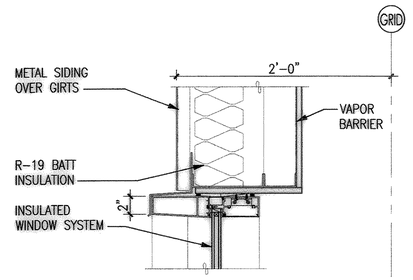
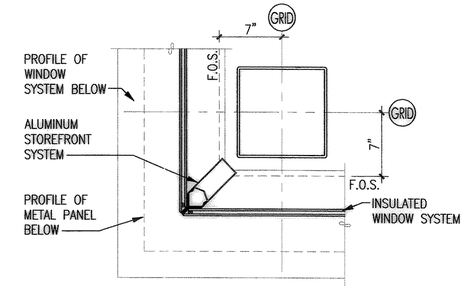


9 SLIDING WINDOW HEAD — GUARD SHACK
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



10 WINDOW HEAD — MAINT. BLDG.
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



11 CORNER MULLION — MAINT. BLDG.
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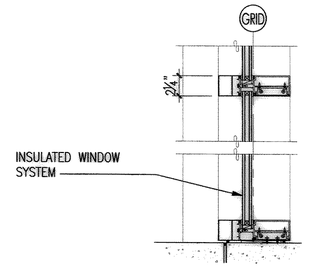
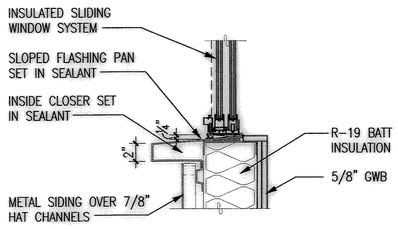
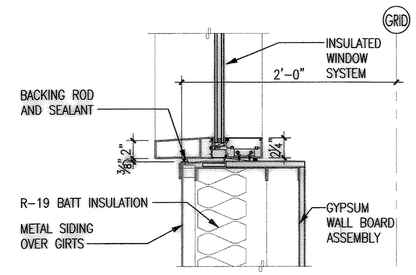


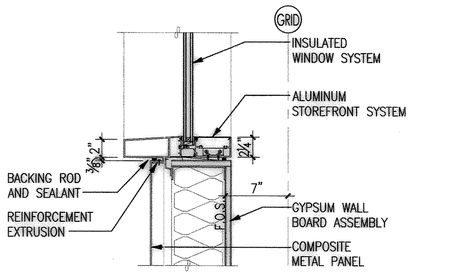
12 STOREFRONT SIDELIGHT — ADMIN. BLDG.
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



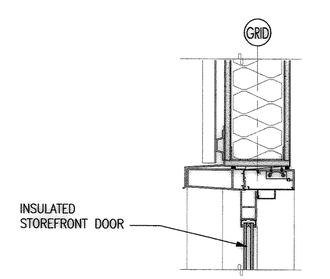
13 SLIDING WINDOW SILL — GUARD SHACK
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



14 WINDOW SILL — MAINT. BLDG.
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



15 SILL @ METAL PANEL — MAINT. BLDG.
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4



16 STOREFRONT HEAD
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.4

FILE NUMBER:C:\FILES\FILENAME.DWG

RECORD DRAWING

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-6841

Helix
602 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

APPROVED
CHIEF ENGINEER – DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY – DATE 8/22/03
LC PROJECT ENGR.– DATE 8/22/03

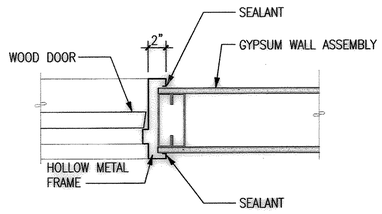
TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ. VERT.
DRAWING SCALE: 1-1/2" = 1'-0"

CONTRACT NUMBER: E1974
E NUMBER: 998154
PHASE: RECORD DRAWING

PORT OF TACOMA
PIERCE COUNTY TERMINAL
WINDOW & STORE FRONT DETAILS

EP-[illegible]
6321-17

SHEET 221 OF 230
A7.604



HEAD SIM.

1 WOOD DOOR - INTERIOR JAMB
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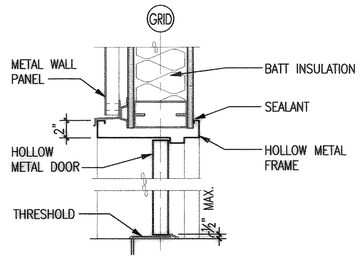
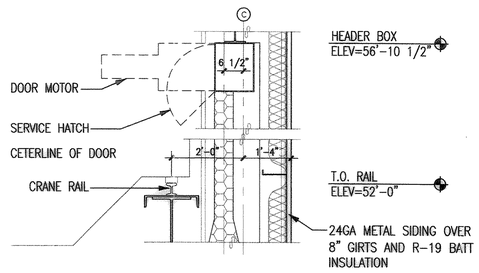
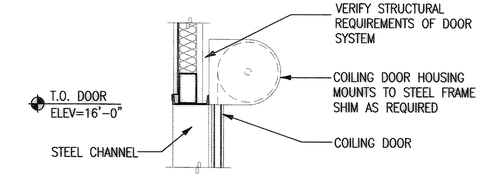


2 HOLLOW METAL HEAD & THRESHOLD
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.5

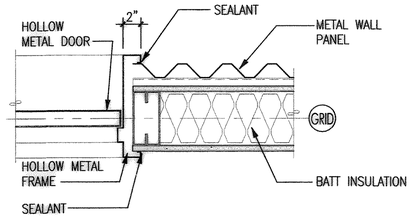


3 FABRIC DOOR MOTOR MAINT. BLDG
SCALE: 1/2" = 1'-0" | PC | E1974A7.DT.5



4 COILING DOOR HEAD
SCALE: 1/2" = 1'-0" | PC | E1974A7.DT.5

5 DELETED
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.5



6 HOLLOW METAL DOOR & JAMB
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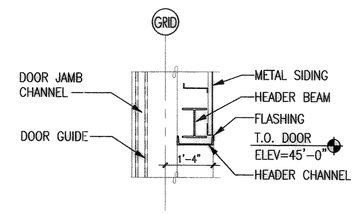
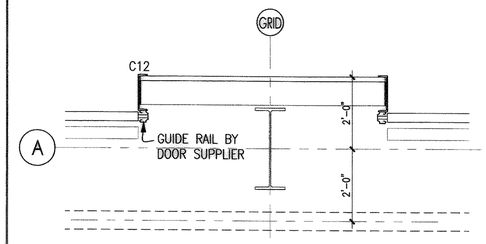


7 FABRIC DOOR HEAD MAINT. BLDG
SCALE: 1/2" = 1'-0" | PC | E1974A7.DT.5



8 COILING DOOR JAMB
SCALE: 1/2" = 1'-0" | PC | E1974A7.DT.5

9 DELETED
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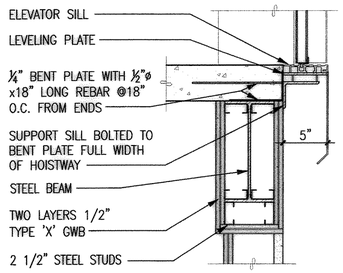

10 ELEVATOR SILL
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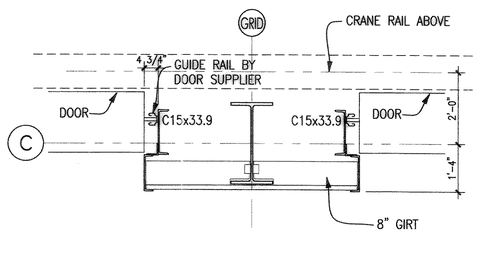

11 FABRIC DOOR JAMB MAINT. BLDG
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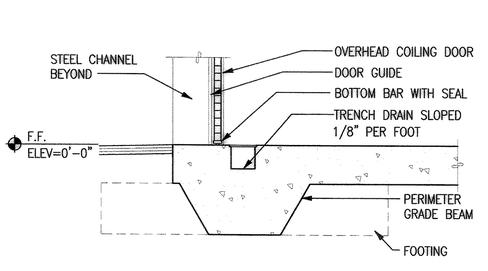

12 COILING THRESHOLD
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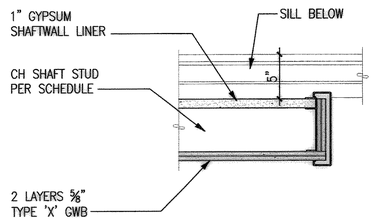
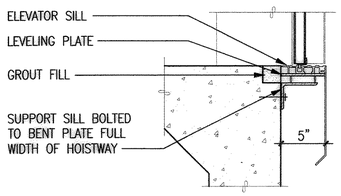


13 ELEVATOR JAMB HEAD SIM
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.5



14 ELEVATOR SILL
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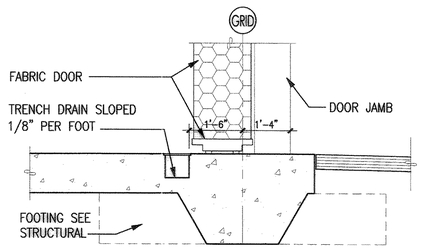

15 FABRIC DOOR THRESHOLD MAINT. BLDG
SCALE: 1/2" = 1'-0" | PC | E1974A7.DT.5

16 DELETED
SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.5

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA
USA

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

RECORD DRAWING

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4021 12th street east
suite 201
tacoma, wa. 98424
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fax: 253 . 922 . 6499

APPROVED

CHIEF ENGINEER - DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY - DATE 8/22/03
LC PROJECT ENGR.- DATE 8/22/03

PORT OF TACOMA
PIERCE COUNTY TERMINAL
OVERHEAD & HM DOOR DETAILS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1-1/2" = 1'-0"

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

EP. 6321-17

SHEET 222 OF 230
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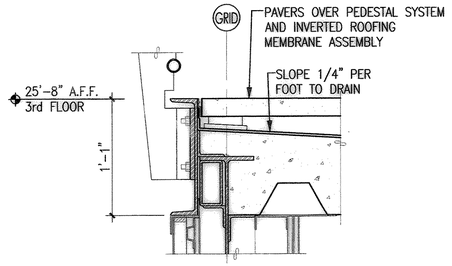

1 **ROOF DECK** — ADMINISTRATION BUILDING

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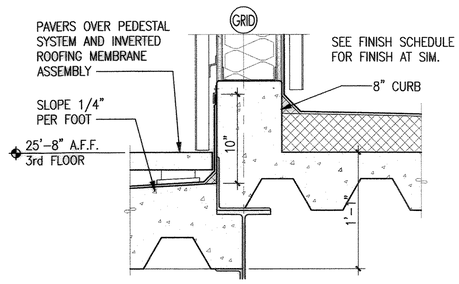

2 **ROOF DECK** — ADMINISTRATION BUILDING

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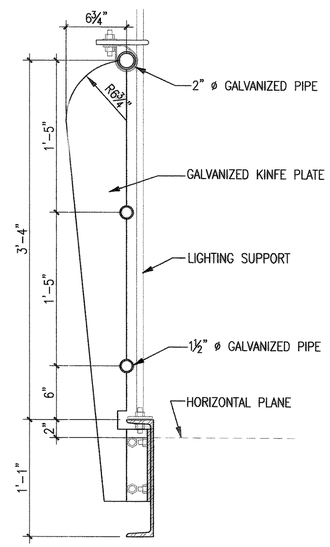
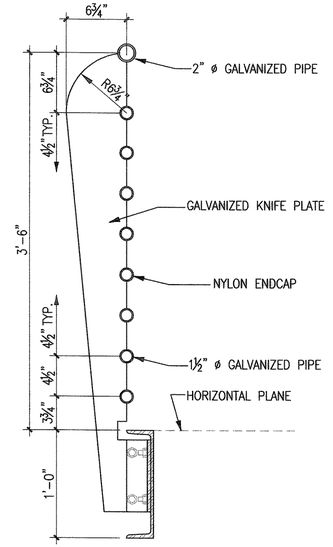


5 **GUARDRAIL** — MAINTENANCE BUILDING

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.6



6 **GUARDRAIL** — ADMINISTRATION BUILDING

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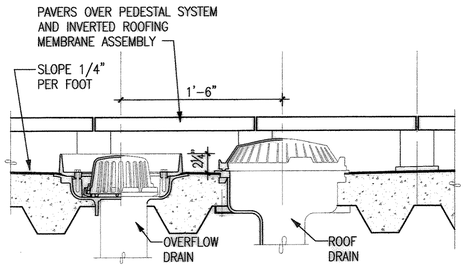

3 **DECK DRAIN** — ADMINISTRATION BUILDING

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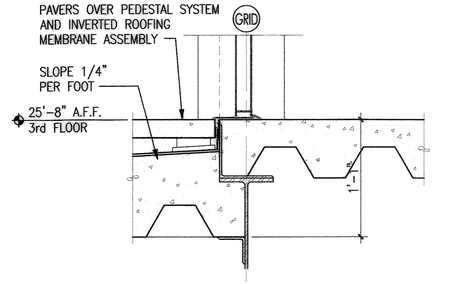

4 **ROOF DECK** — ADMINISTRATION BUILDING

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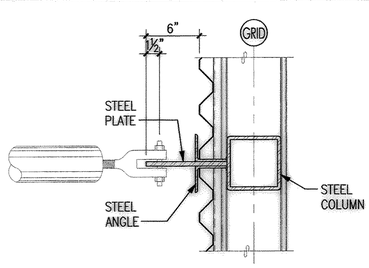
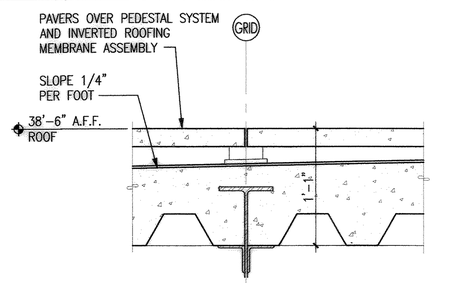


7 **CANOPY BRACKET**

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.6



8 **ROOF DECK** — ADMINISTRATION BUILDING

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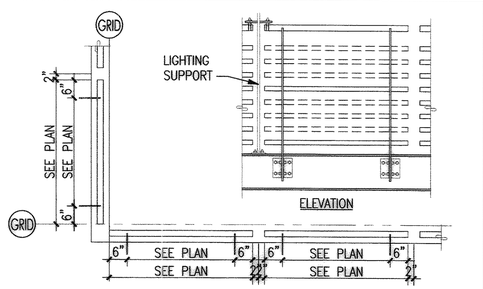

9 **TYPICAL GUARDRAIL**

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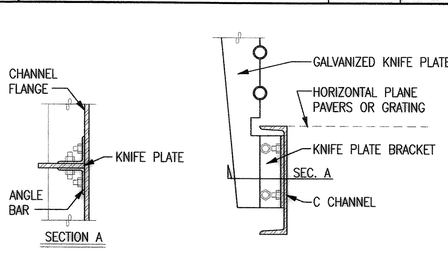
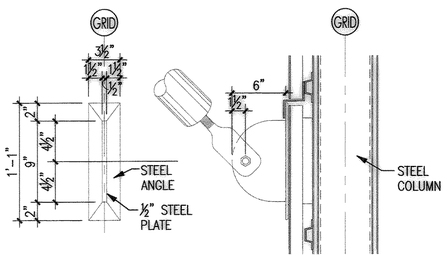


10 **GUARDRAIL**

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.6



11 **CANOPY BRACKET**

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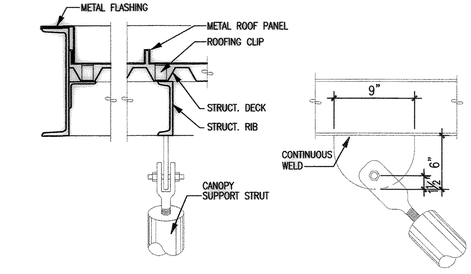
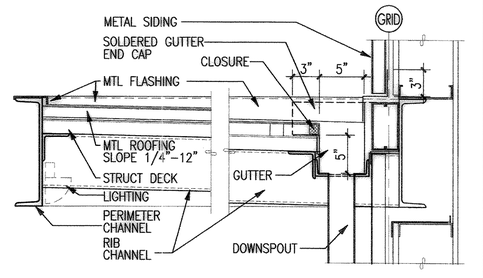


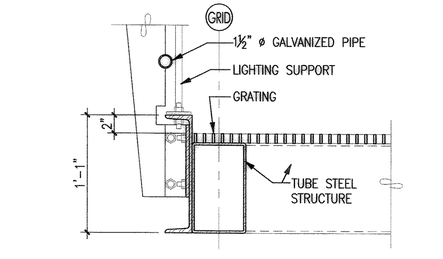
12 **CANOPY**

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.6



13 **CANOPY**

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.6



14 **MECH. DECK** — MAINTENANCE BUILDING

SCALE: 1-1/2" = 1'-0" | PC | E1974A7.DT.6

FILE NUMBER: C:\FILES\FILENAME.DWG

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

Helix
6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.4000
fax: 253.922.6499

RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE: 12/20/04
DESIGNED: LC
PORT PARCEL:

LC 8/22/03
CHECKED BY – DATE

LC 8/22/03
PROJECT ENGR.– DATE

PORT OF TACOMA
PIERCE COUNTY TERMINAL
DECK & CANOPY DETAILS

TOWNSHIP: RANGE: SECTION:
DRAWING SCALE: 1-1/2" = 1'-0"
CONTRACT NUMBER: 998154
PHASE: RECORD DRAWING

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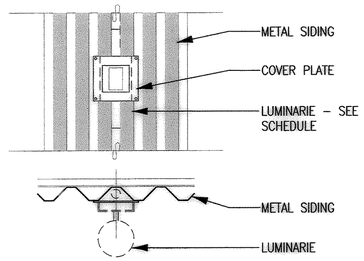
SHEET 223 OF 230

A7.606



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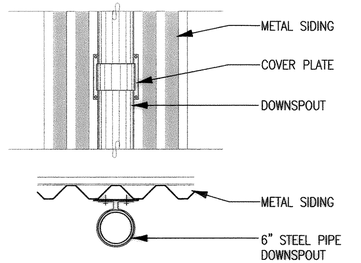

2 DOWNSPOUT BRACKET

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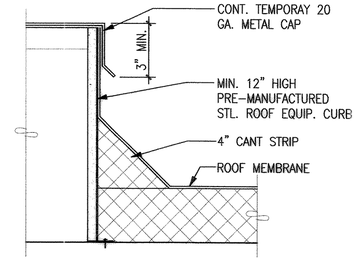
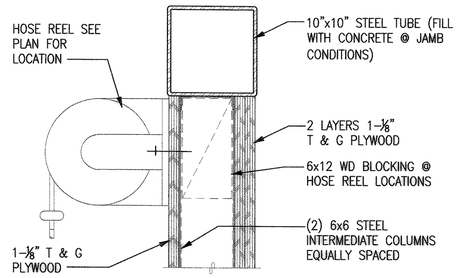


3 HVAC CURB

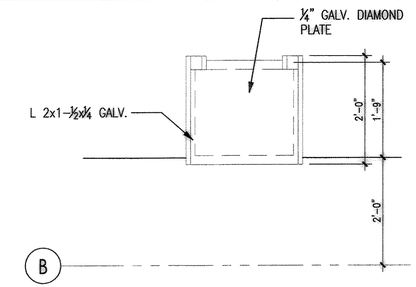
SCALE: 3" = 1'–0" | PC | E1974A7.DT.2



MAINT. BLDG

4 PARTITION WALL WITH LUBE REEL

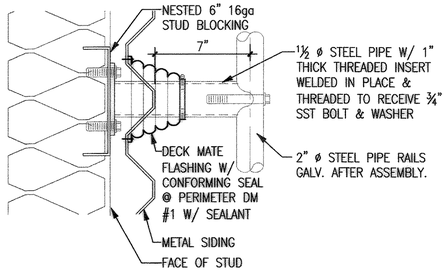
SCALE: 1–1/2" = 1'–0" | PC | E1974A7.DT.4



5 PLATFORM @ RIDGE

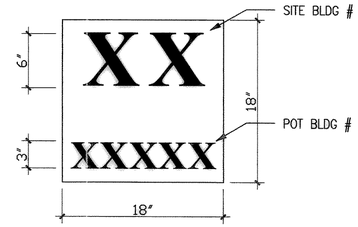
MAINT. BLDG

SCALE: 3/4" = 1'–0" | PC | E1974A7.DT.2



6 STANDOFF DETAIL

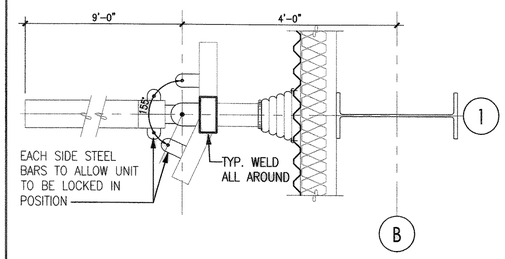
SCALE: 3" = 1'–0" | PC | E1974A7.DT.2



NOTE: SIGNS TO BE PROVIDED ON ALL BLDGS INCLUDING WASH & COMRESSOR BLDG

7 BLDG. SIGNS

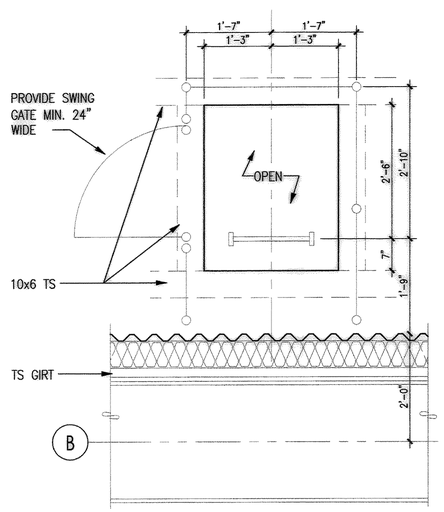
SCALE: 1–1/2" = 1'–0" | PC | E1974A7.DT.2



8 JIB CRANE PLAN

MAINT. BLDG

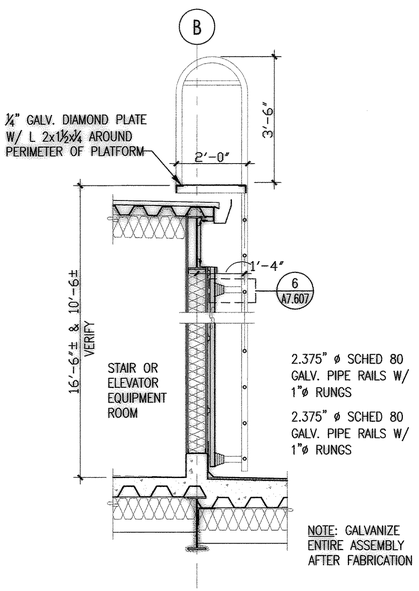
SCALE: 1/2" = 1'–0" | PC | E1974A7.DT.2



MAINT. BLDG

13 PLATFORM @ MECH. MEZZ.

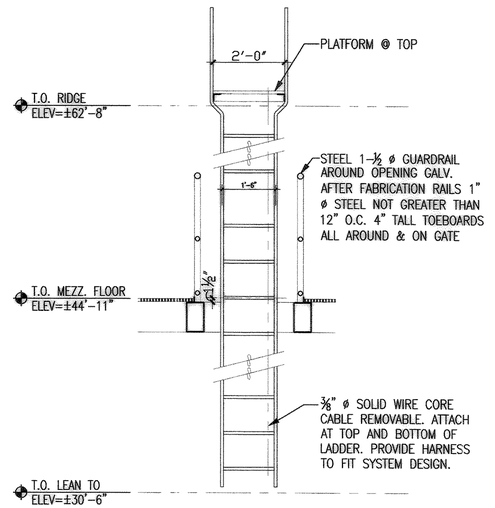
SCALE: 3/4" = 1'–0" | PC | E1974A7.DT.2



14 ROOF LADDER

ADMIN. BLDG

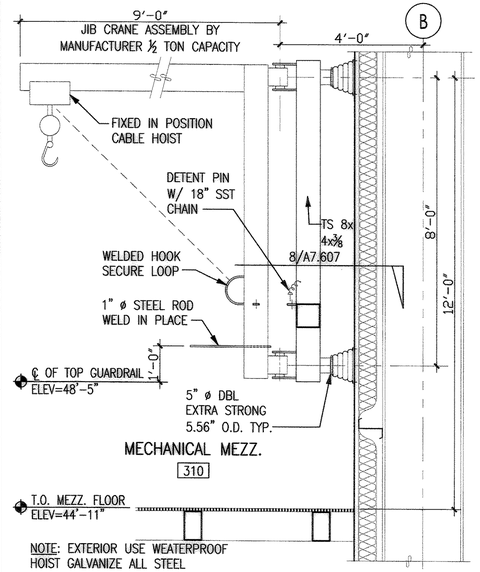
SCALE: 1/2" = 1'–0" | PC | E1974A7.DT.2



15 ROOF LADDER

MAINT. BLDG

SCALE: 1/2" = 1'–0" | PC | E1974A7.DT.2



NOTE: EXTERIOR USE WEATERPROOF HOIST GALVANIZE ALL STEEL

16 JIB CRANE SECTION

MAINT. BLDG

SCALE: 1/2" = 1'–0" | PC | E1974A7.DT.2

PORT OF TACOMA P.O. BOX 1837
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Helix
6021 12th street east suite 201
tacoma, wa. 98424
tel: 253 . 922 . 9037
fax: 253 . 922 . 6499

RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LG CHECKED BY – DATE 8/22/03
LG PROJECT ENGR – DATE 8/22/03

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1–1/2" = 1'–0"

CONTRACT NUMBER: 9981.54
E. NUMBER: E1974
PHASE: RECORD DRAWING

PORT OF TACOMA
PIERCE COUNTY TERMINAL
EXTERIOR WALL DETAILS

EP [illegible]
6321–17

SHEET 224 OF 230
A7.607

FILE NUMBER:G:_FILES\{FILENAME.DWG

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
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LC 8/22/03
PROJECT ENGR.– DATE

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PORT OF TACOMA
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DECK & CANOPY
DETAILS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1-1/2" = 1'-0"

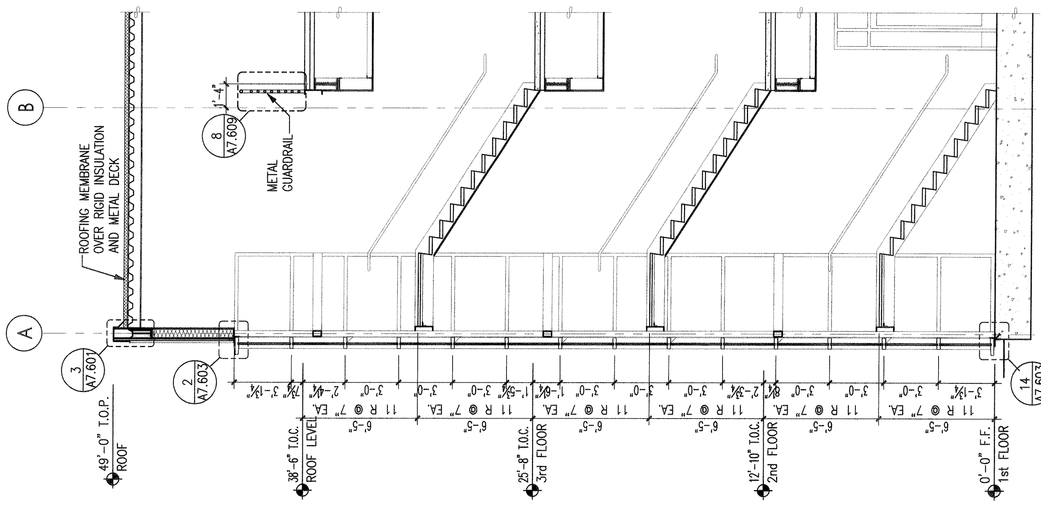
EP ~~5551-17~~

A7.608

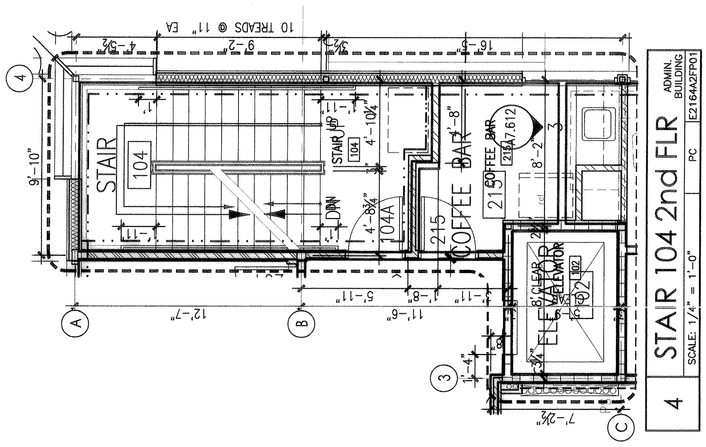
SHEET 225 OF 230

CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

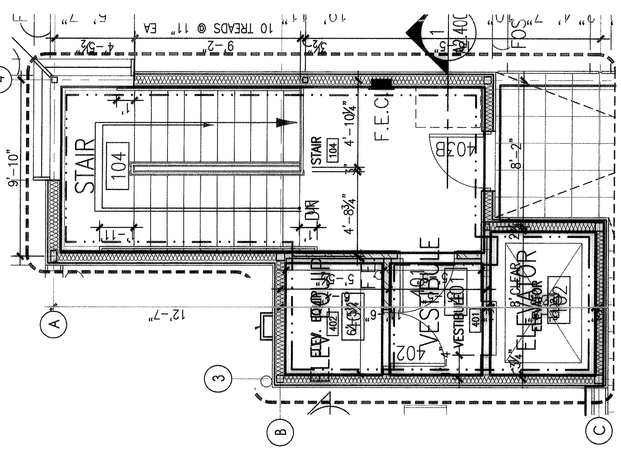
6321-17



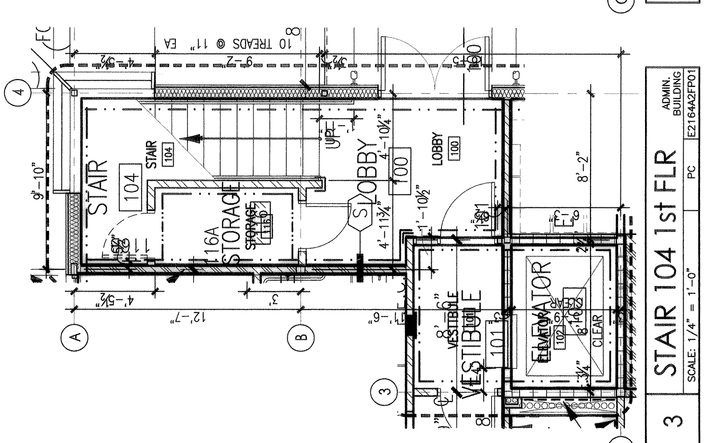
9 STAIR 104 SECTION — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"



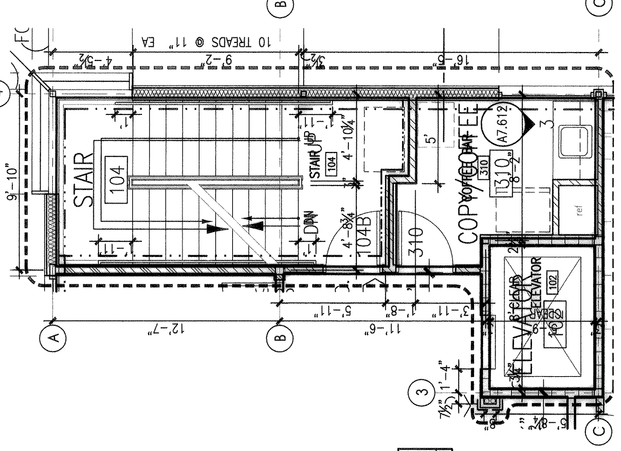
4 STAIR 104 2nd FLR — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"



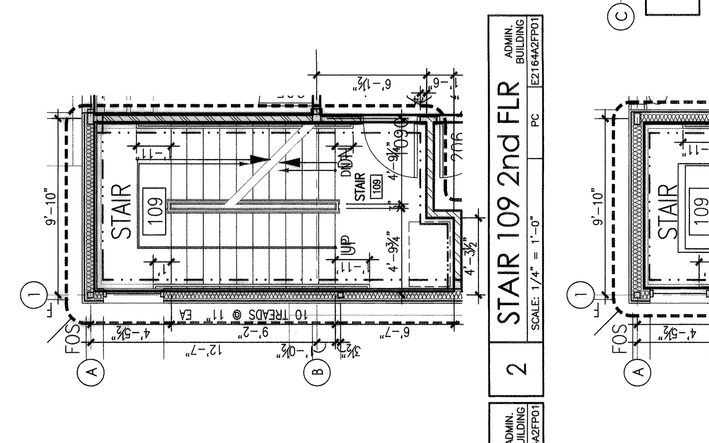
8 STAIR 104 Roof — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"



3 STAIR 104 1st FLR — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"

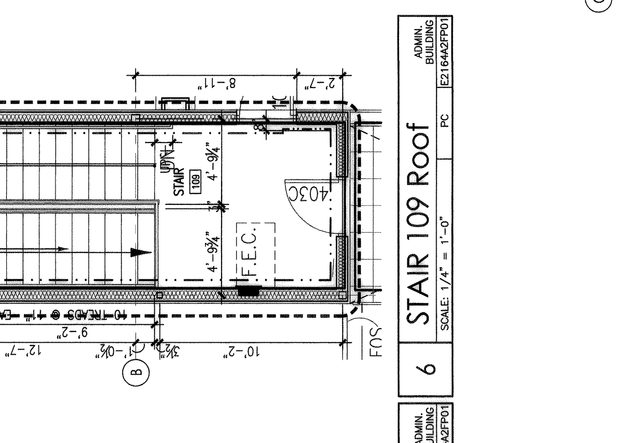


7 STAIR 104 3rd FLR — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"

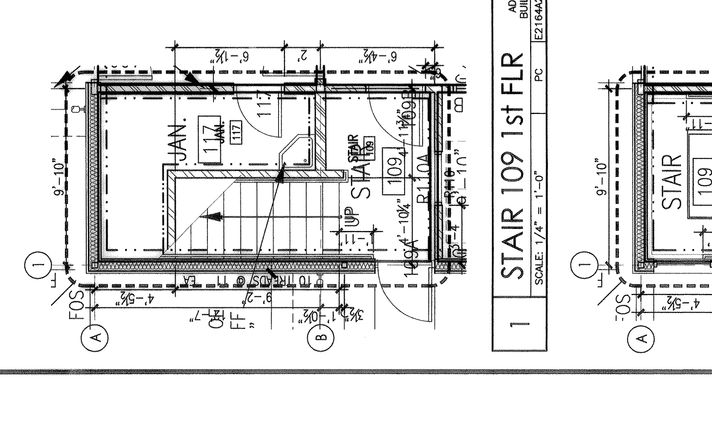


1 STAIR 109 1st FLR — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"

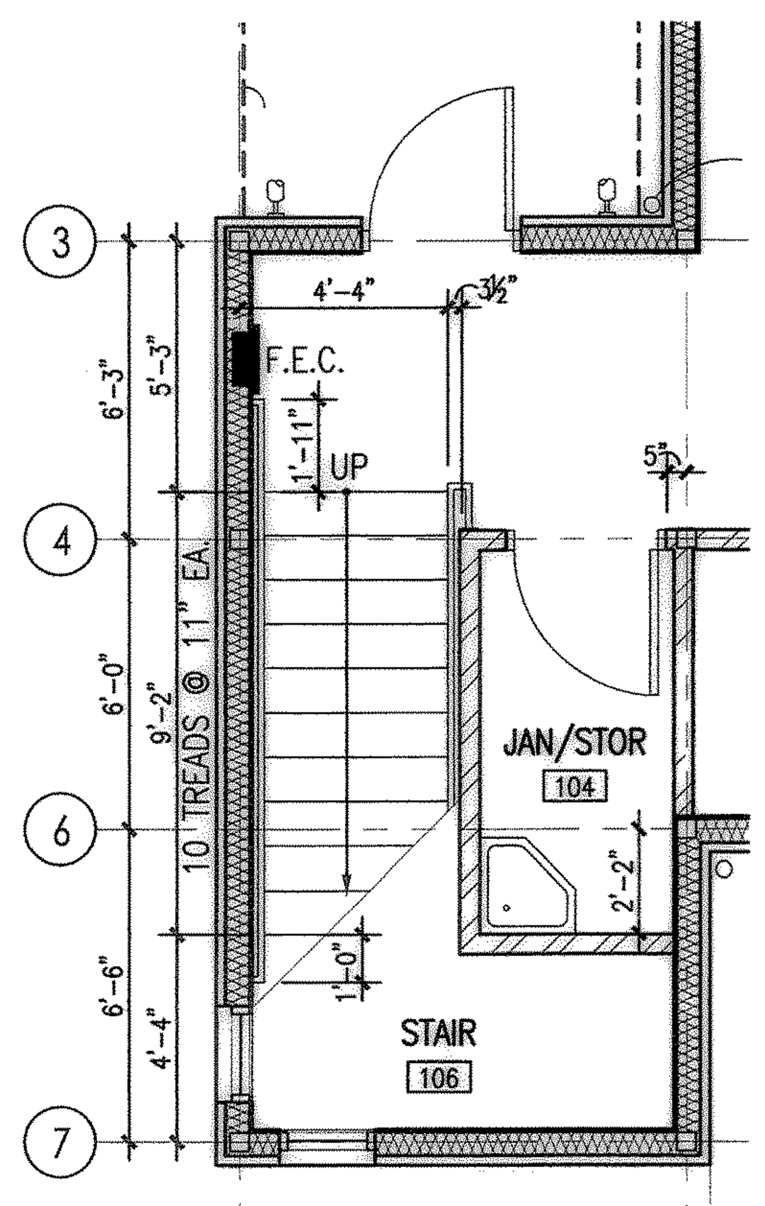
2 STAIR 109 2nd FLR — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"



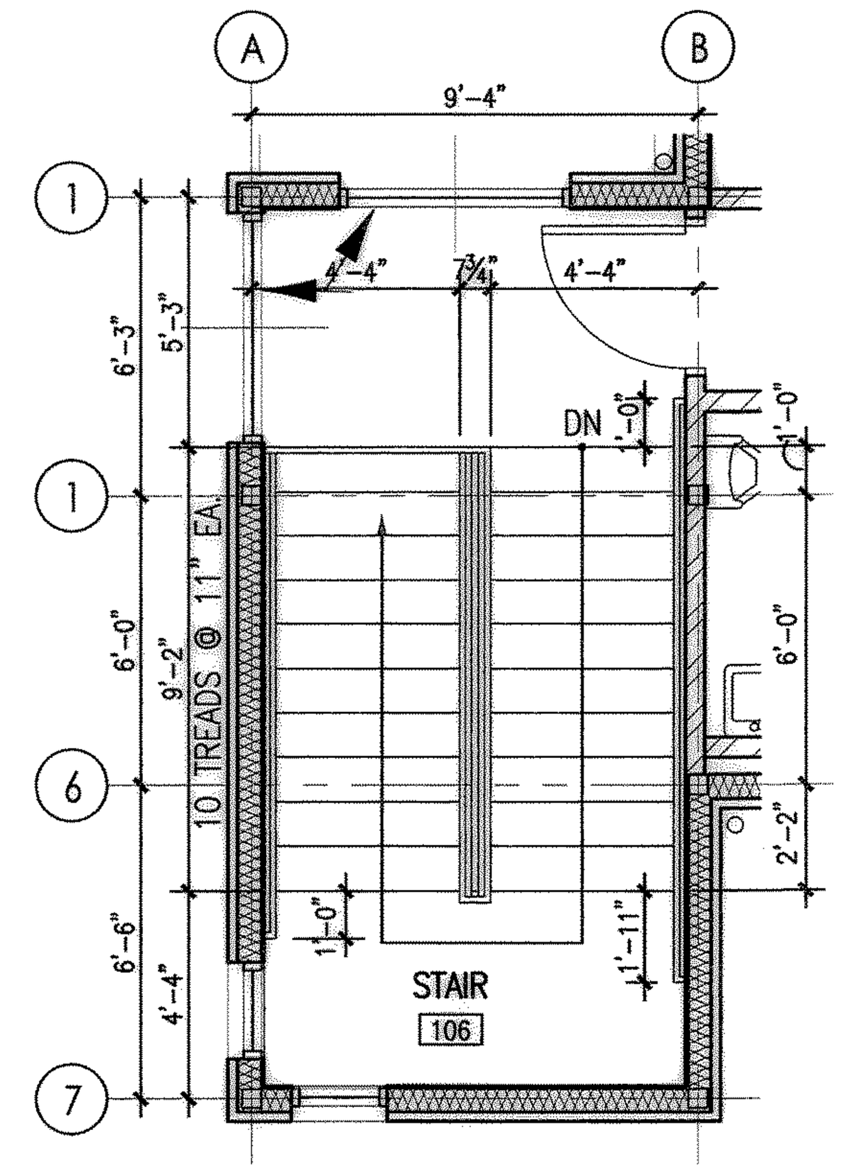
6 STAIR 109 Roof — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"



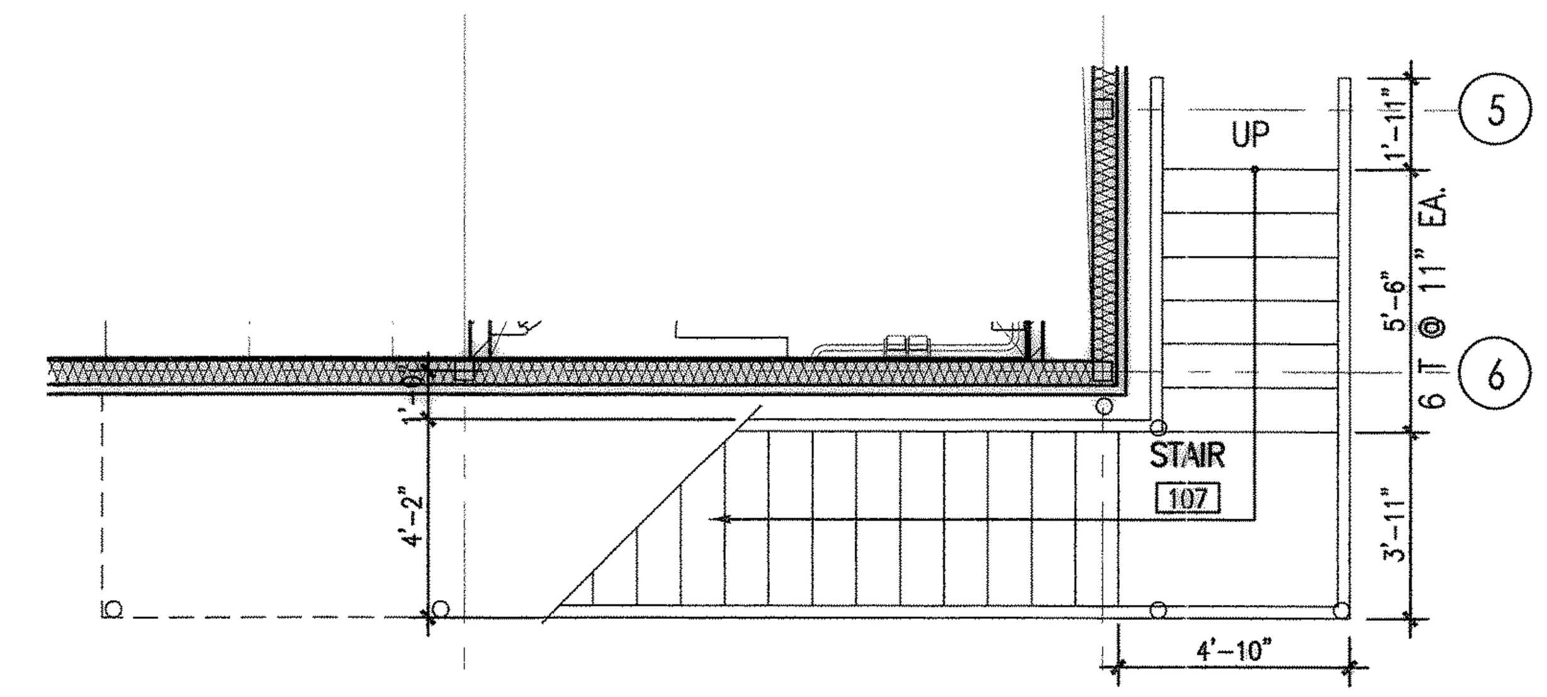
5 STAIR 109 3rd FLR — ADMIN. BUILDING — E2164A2FP01 — PC — SCALE: 1/4" = 1'-0"



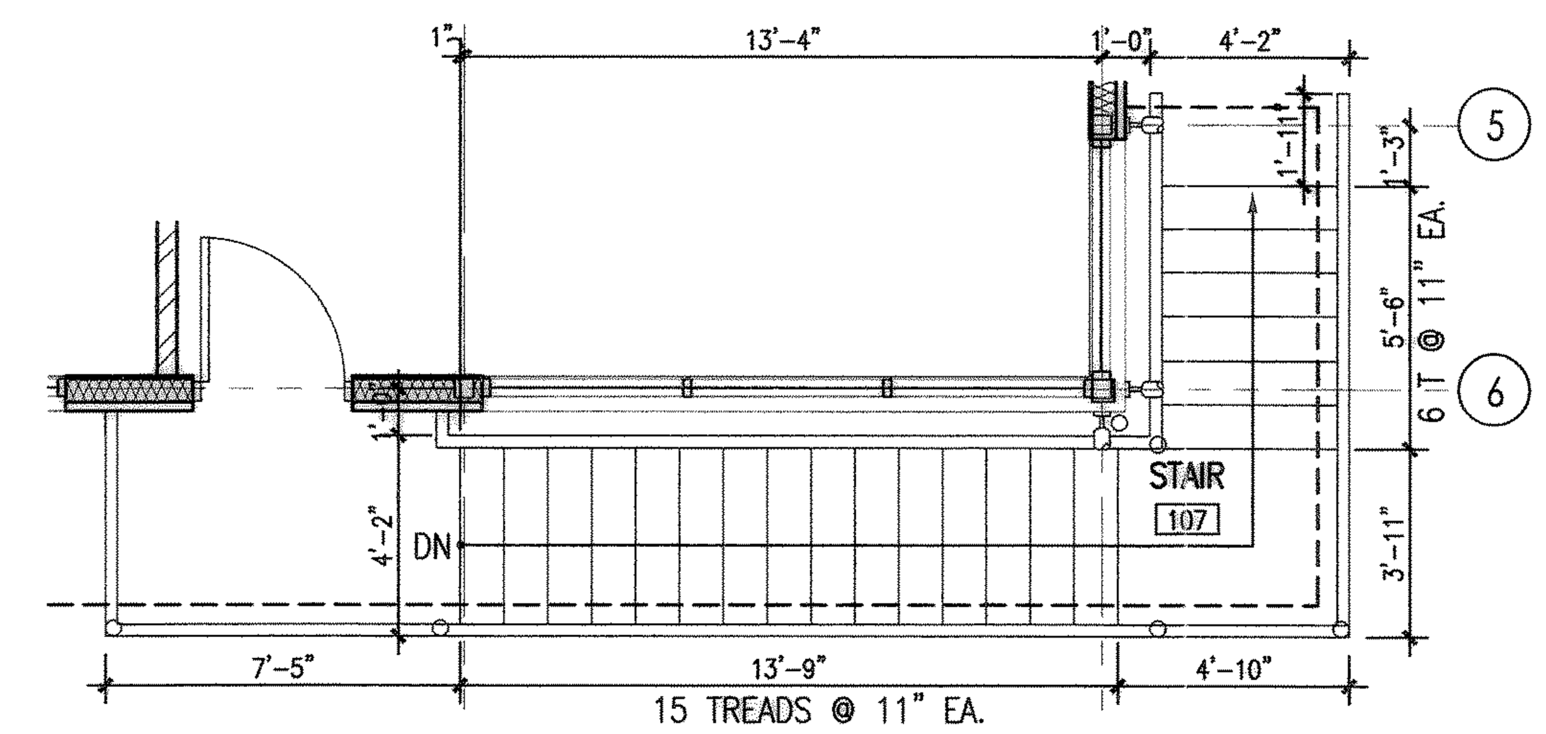
1	STAIR 106 1st FLR	MARINE BUILDING
	SCALE: 1/4" = 1'-0" PC	E2164A3FP01



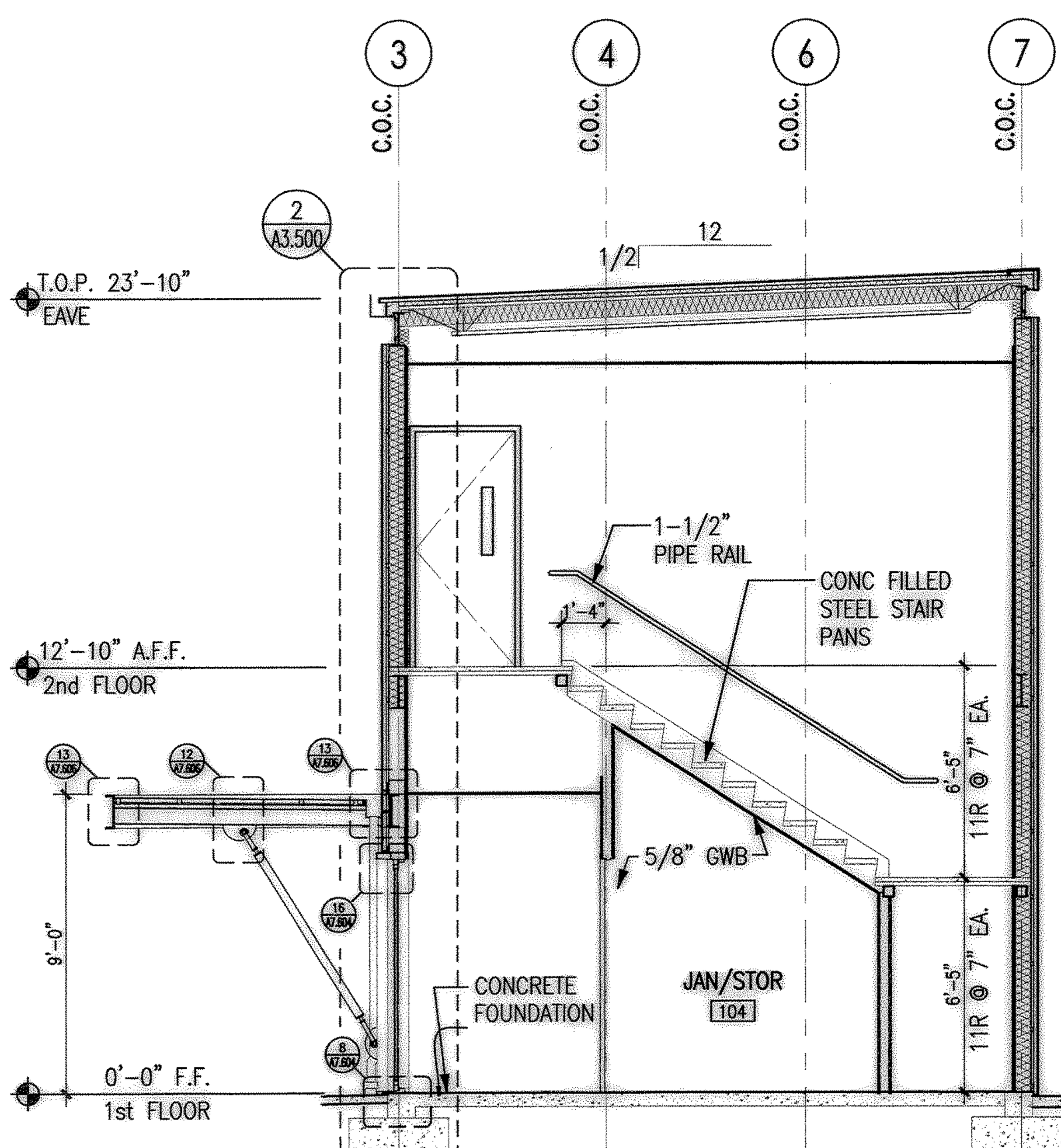
2	STAIR 106 2rd FLR	MARINE BUILDING
	SCALE: 1/4" = 1'-0" PC	E2164A3FP01



4	STAIR 107 1st FLR	MARINE BUILDING
	SCALE: 1/4" = 1'-0" PC	E2164A2FP01



5	STAIR 107 2nd FLR	MARINE BUILDING
	SCALE: 1/4" = 1'-0" PC	E2164A2FP01



3	STAIR 106 SECTION	MARINE BUILDING
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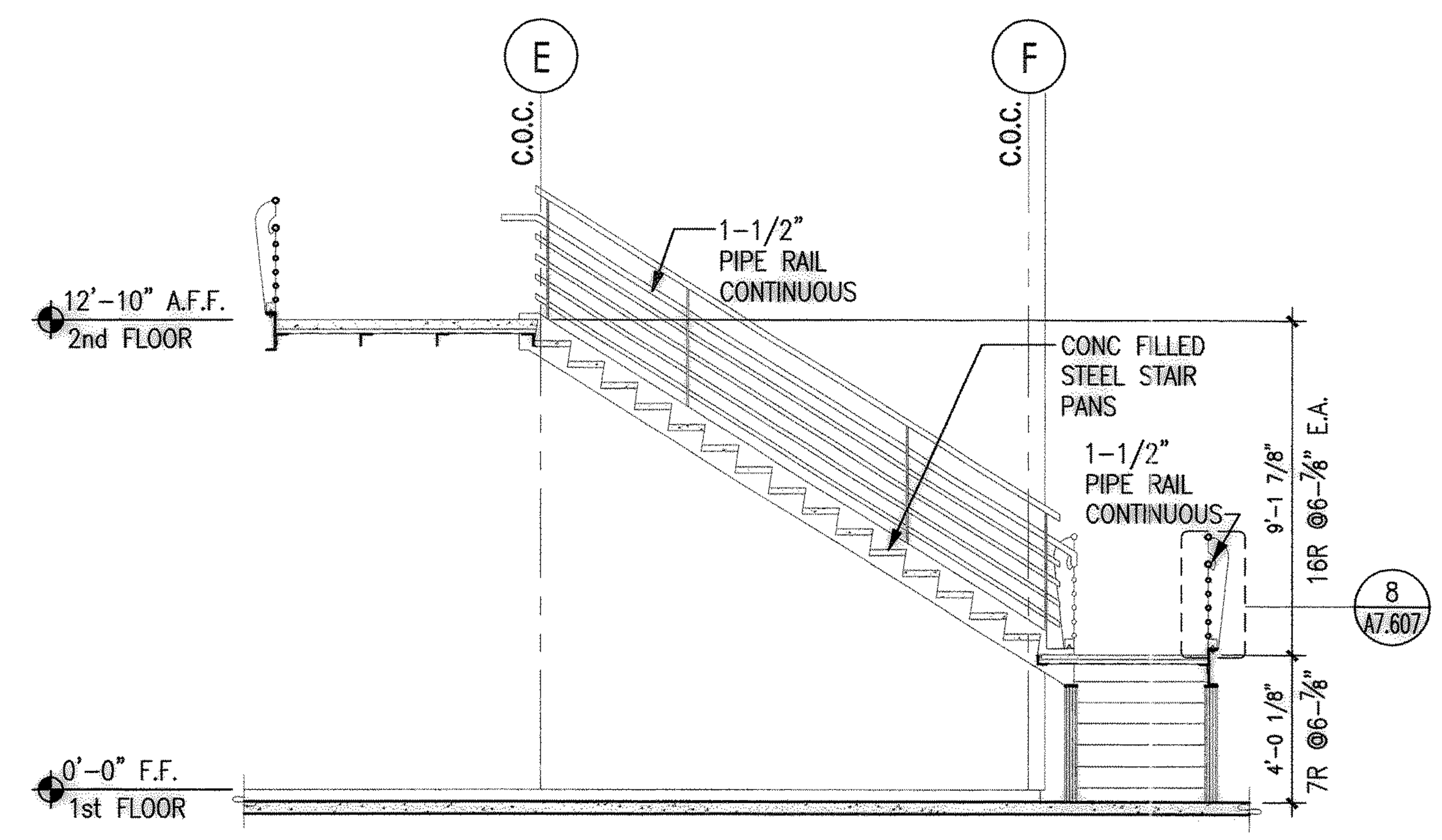
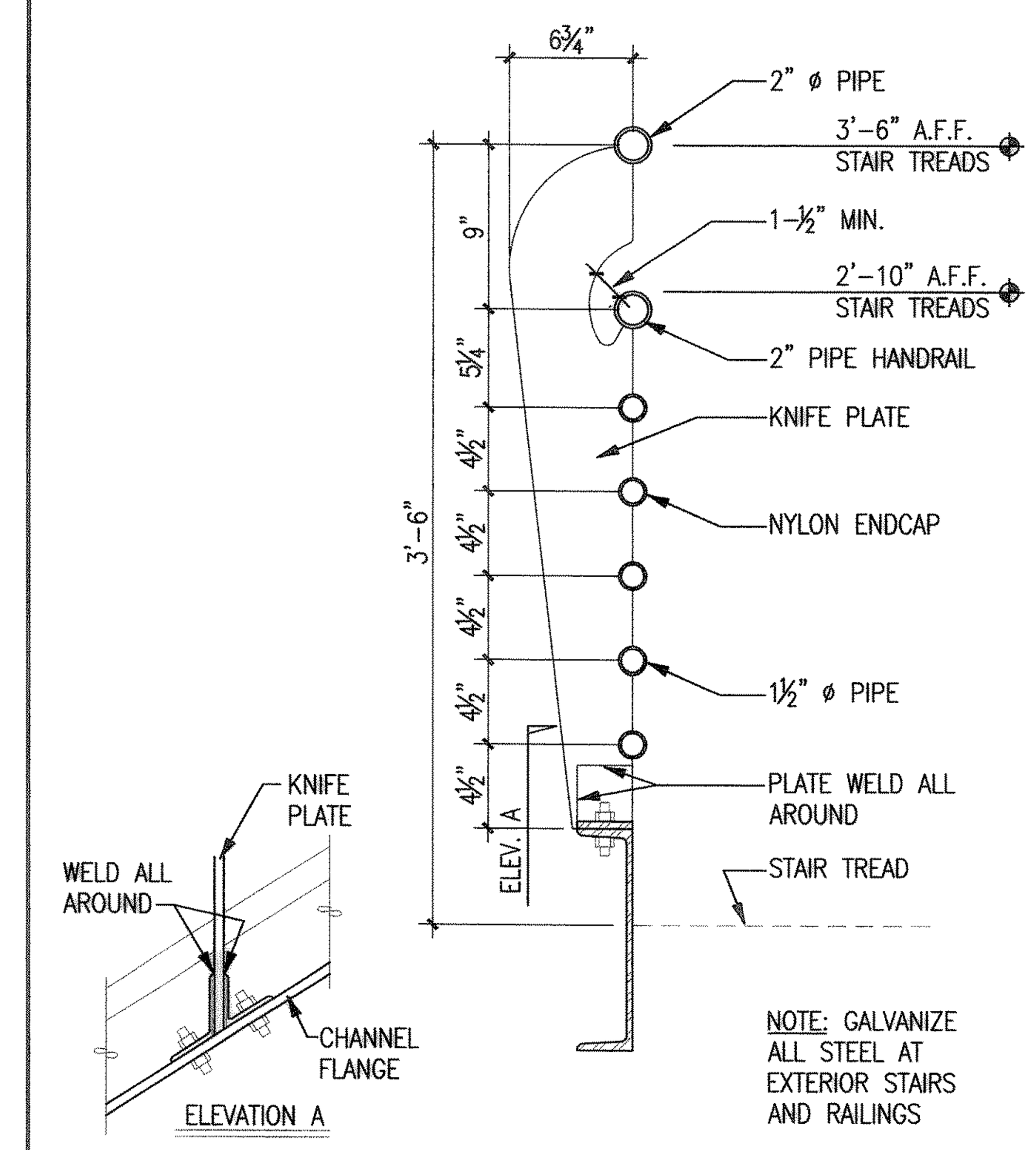
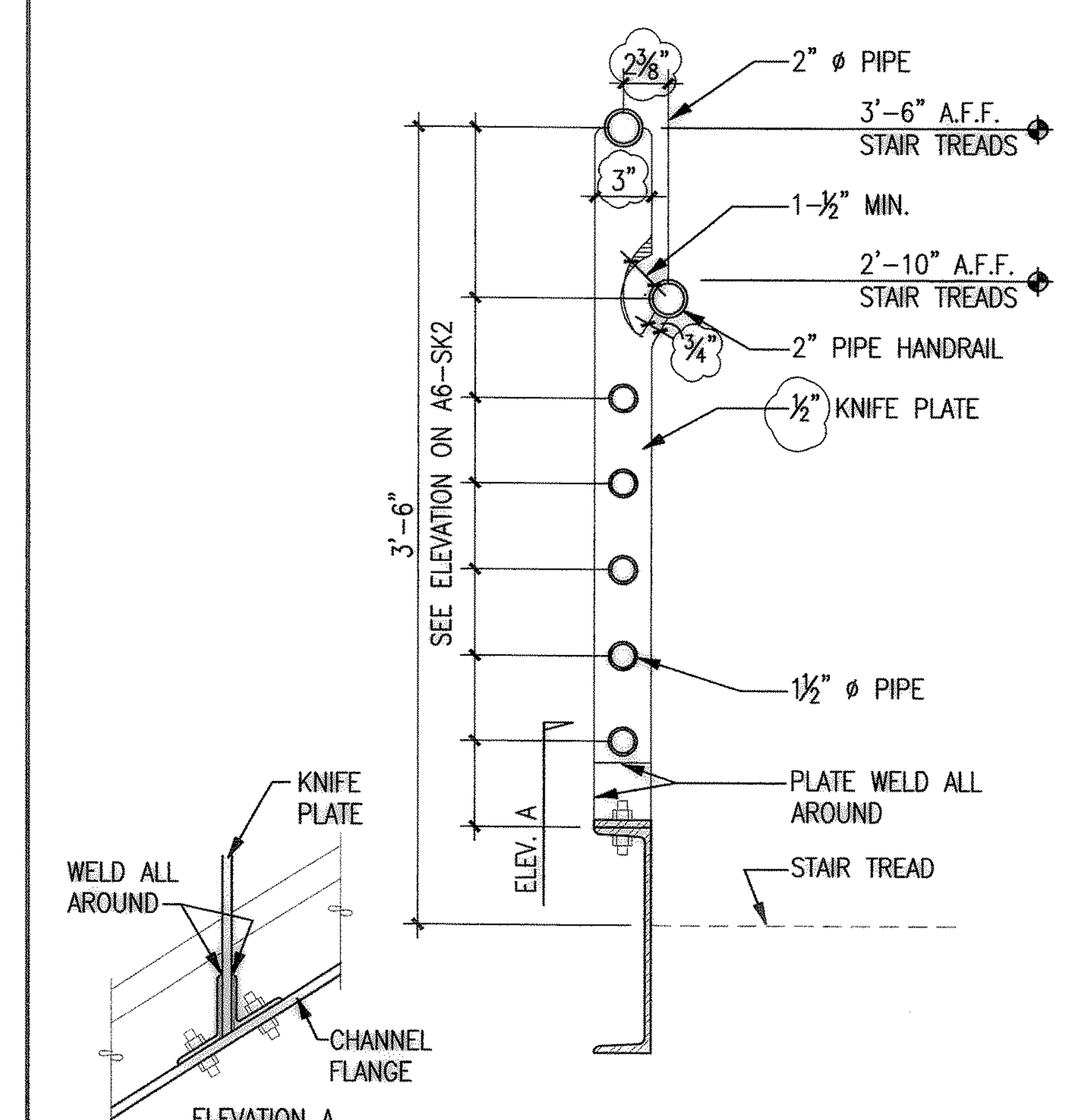


6	STAIR 107 SECTION	MARINE BUILDING
	SCALE: 1/4" = 1'-0" PC	E2164A2FP01



7	HANDRAIL	
	SCALE: 1-1/2" = 1'-0" PC	E1974A1.DT.1



8	HANDRAIL	
	SCALE: 1-1/2" = 1'-0" PC	E1974A1.DT.1

PORT OF TACOMA U.S.A.
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PORT OF TACOMA
PIERCE COUNTY TERMINAL
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DETAILS

EP. 6321-17
A7.609
SHEET 226 OF 230
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

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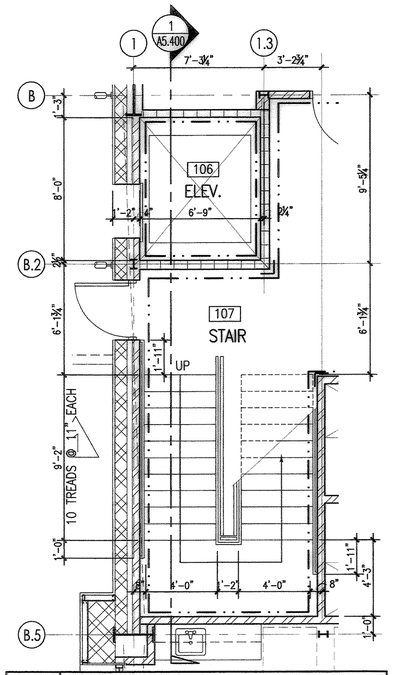
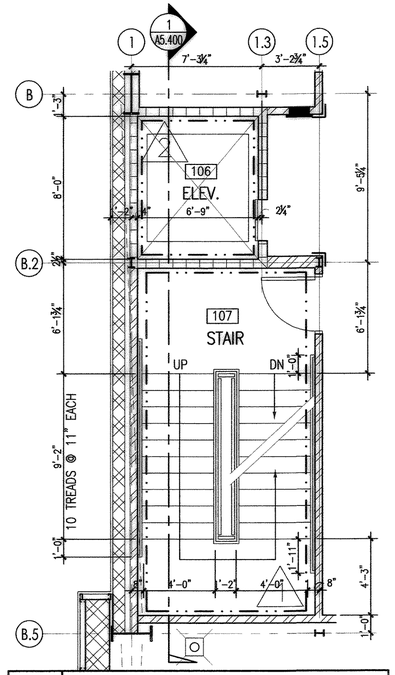
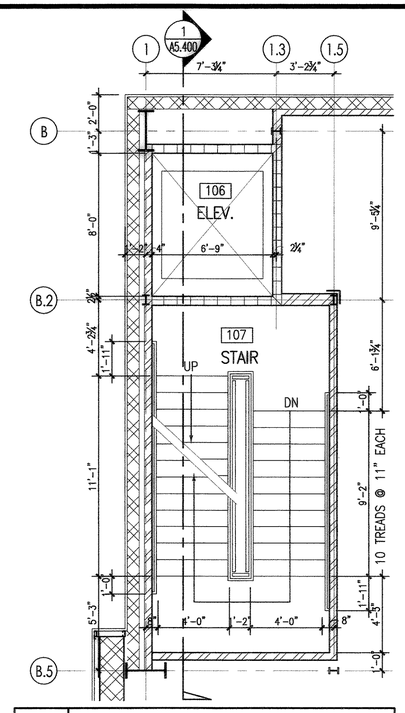


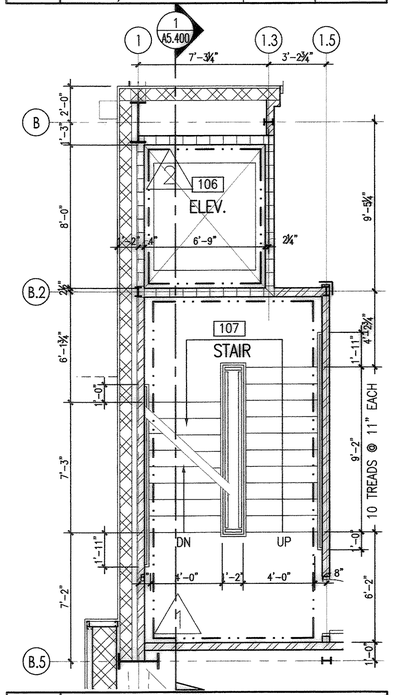
1 Stair 107 1st FLR — MAINT BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5FP01



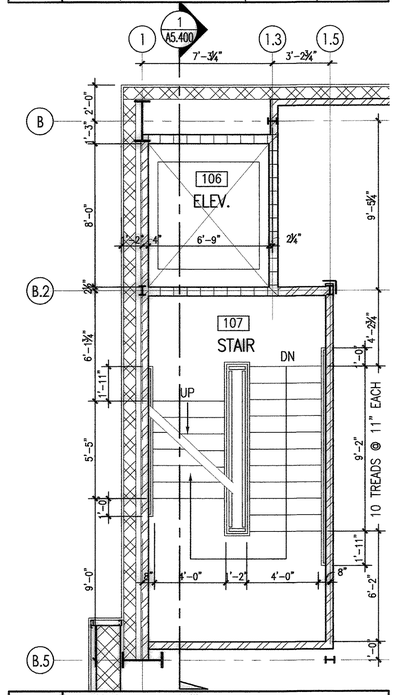
2 Stair 107 Mezz. FLR — MAINT BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5FP01



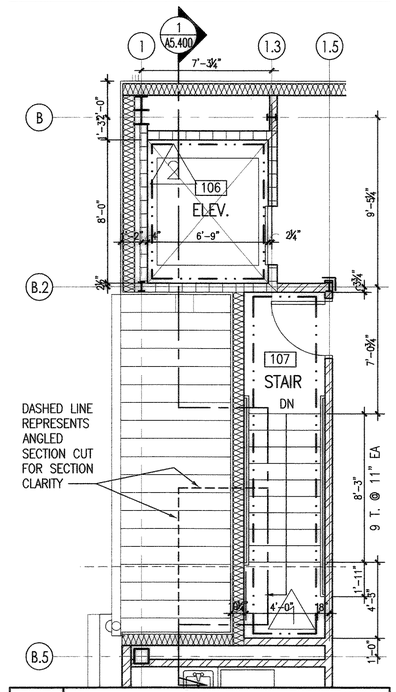
3 6th Landing — MAINT BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5FP01



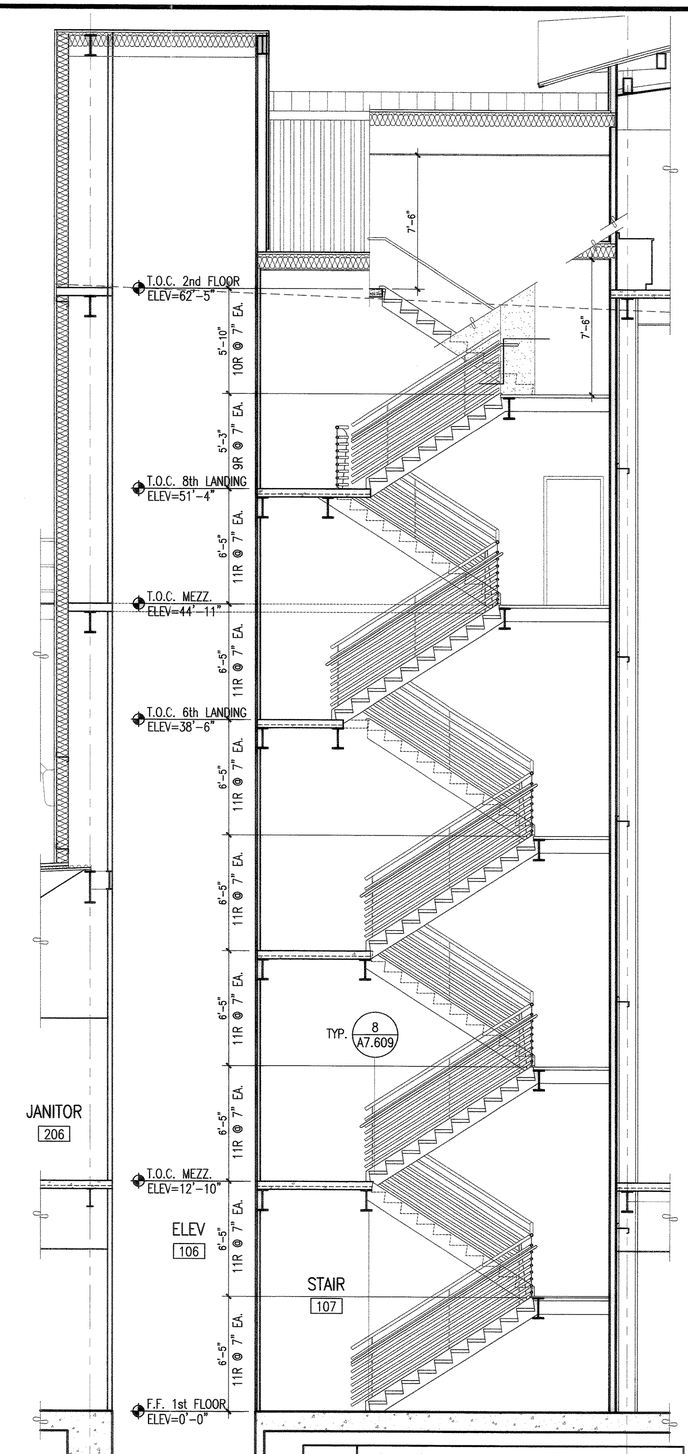
4 St. 107 Mech Mezz — MAINT BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5FP01



5 8th landing — MAINT BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5FP01



6 Stair 107 2nd FLR — MAINT BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5FP01



7 Stair 107 Section — MAINTENANCE BUILDING — SCALE: 1/4" = 1'-0" — PC — E2164A5BS1

FILE NUMBER:C:\FILES\FILENAME.DWG

PORT OF TACOMA USA

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TACOMA, WA 98401 253-383-5841

Heltx
4021 12th street east
suite 201
tacoma, wa. 98424
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RECORD DRAWING

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CHIEF ENGINEER – DATE

DRAWING DATE: 12/20/04
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DRAWING SCALE: 1-1/2" = 1'-0"

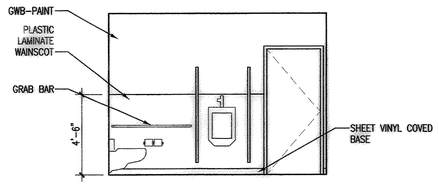
PORT OF TACOMA
PIERCE COUNTY TERMINAL
DECK & CANOPY
DETAILS

EP: 6321-17

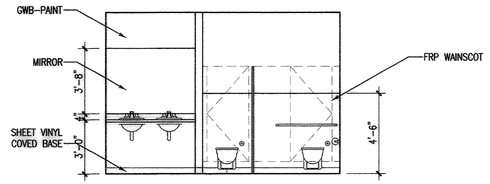
A7.610

SHEET 227 OF 230

CONTRACT NUMBER: 998154
E. NUMBER: E1974
PHASE: RECORD DRAWING



1	MEN - ADMIN. BLDG.		
	SCALE: 1/4" = 1'-0"	DB	107



2	MEN- MARINE BLDG.		
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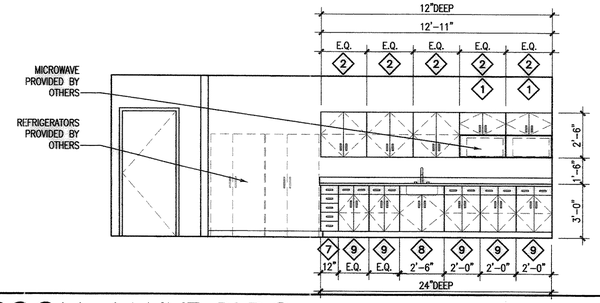
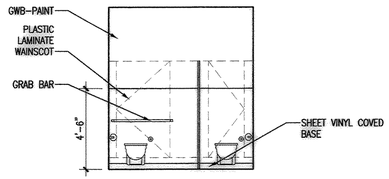


3	BREAK ROOM - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	109



4	WOMEN - ADMIN. BLDG.		
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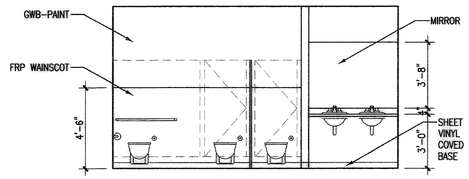
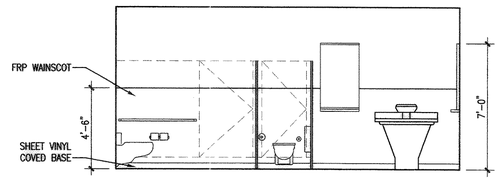


5	WOMEN - MARINE BLDG.		
	SCALE: 1/4"=1'-0"	DB	102



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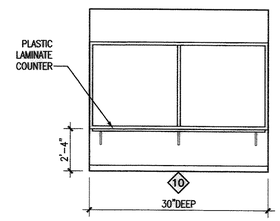
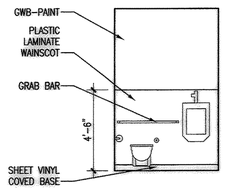
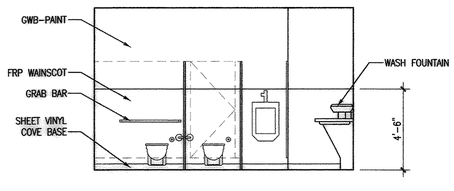


7	OFFICE - GATE SHACKS		
	SCALE: 1/4"=1'-0"	DB	100/102/104



8	MEN - ADMIN. BLDG.		
	SCALE: 1/4"=1'-0"	DB	202



9	MEN - MAINT. BLDG.		
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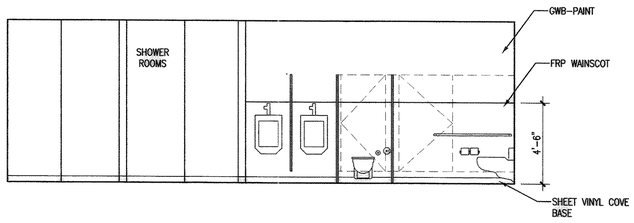
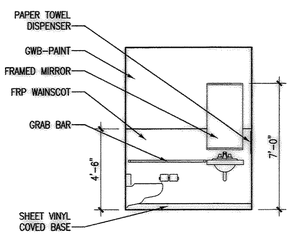


10	MEN'S LOCKER - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	103



11	WOMEN - ADMIN. BLDG.		
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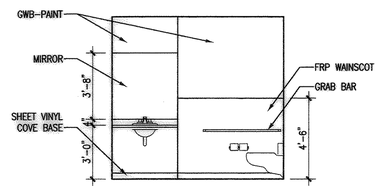
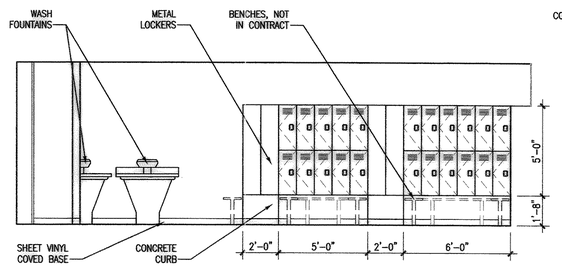
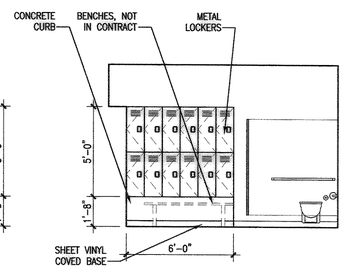


12	WOMEN - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	102



13	MEN'S LOCKER - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	103



14	WOMEN'S LOCKER - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	108

PORT OF TACOMA
TACOMA, USA
PORT OF TACOMA P.O. BOX 1837
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tacoma, wa. 98424
tel: 253 . 922 . 9037
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RECORD DRAWING

APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE: 08/22/03
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY – 8/22/03 DATE

LC PROJECT ENGR.– 8/22/03 DATE

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ. VERT.
DRAWING SCALE: 1/4" = 1'-0"

CONTRACT NUMBER: 988154
E NUMBER: 12/20/04
PHASE: RECORD DRAWING

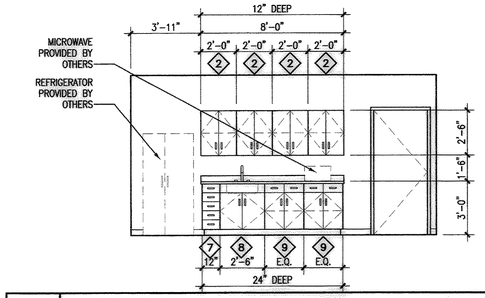
PORT OF TACOMA
PIERCE COUNTY TERMINAL
CASEWORK ELEVATIONS

EP. 6321-17

A7.611

SHEET 228 OF 230

FILE NUMBER:C:\FILES\FILENAME.DWG



1	BREAK ROOM - ADMIN. BLDG.		
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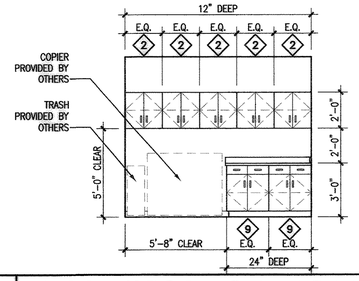
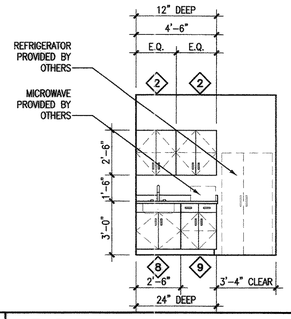


2	COPY/STORAGE - ADMIN. BLDG.		
	SCALE: 1/4" = 1'-0"	DB	114



3	COFFEE BAR - ADMIN. BLDG.		
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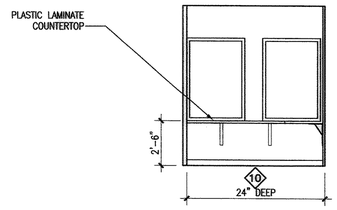
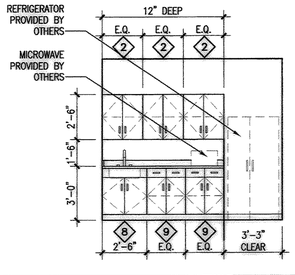
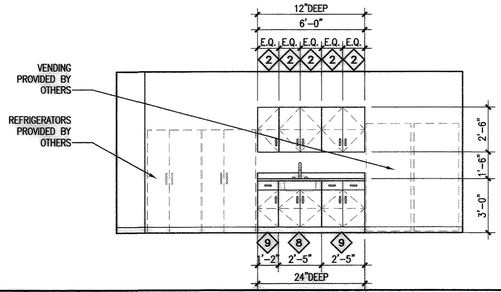


4	REFER CLERK - GEN. SHOP		
	SCALE: 1/4"=1'-0"	DB	100



5	BREAK ROOM - GEN. SHOP		
	SCALE: 1/4"=1'-0"	DB	102



6	BREAK ROOM - MAINT. BLDG.		
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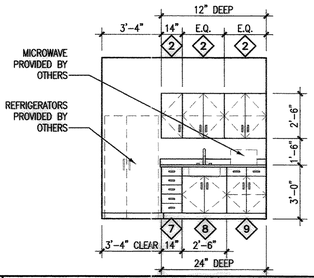

7	BREAK ROOM - MAINT. BLDG.		
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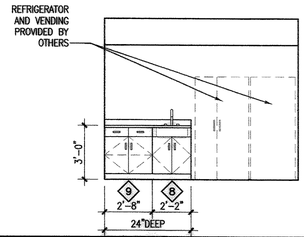

8	BREAK ROOM - MAINT. BLDG.		
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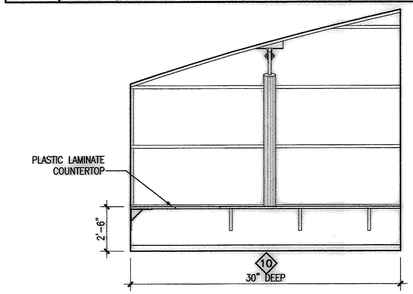
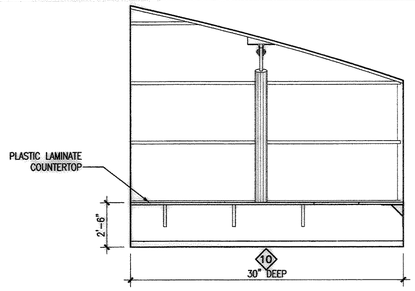
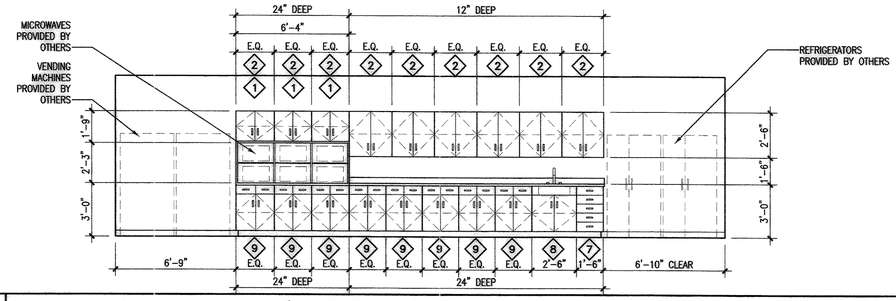


9	CLERKS - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	307



10	CLERKS - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	307



11	BREAKROOM - MARINE BLDG.		
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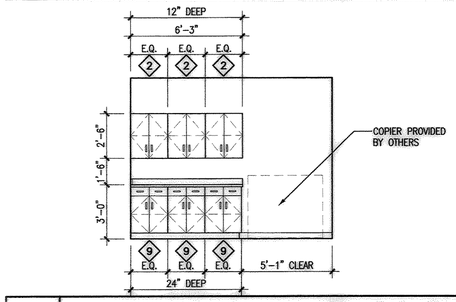
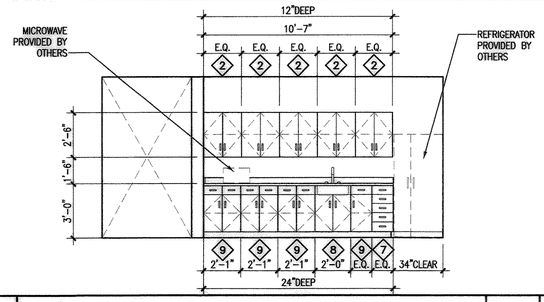
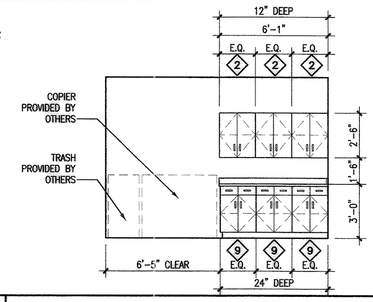


12	COPY/STOR. - MARINE BLDG.		
	SCALE: 1/4"=1'-0"	DB	201



13	BREAK ROOM - MARINE BLDG.		
	SCALE: 1/4"=1'-0"	DB	206



14	SHIP'S SUPER - MARINE BLDG.		
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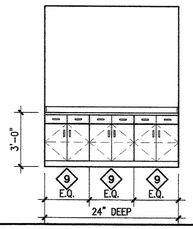

15	COPY - MAINT. BLDG.		
	SCALE: 1/4"=1'-0"	DB	305

FILE NUMBER:C:\FILES\FILENAME.DWG

RECORD DRAWING

PORT OF TACOMA
TACOMA, U.S.A.

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APPROVED

CHIEF ENGINEER – DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

LC CHECKED BY – DATE 8/22/03
LC PROJECT ENGR.– DATE 8/22/03

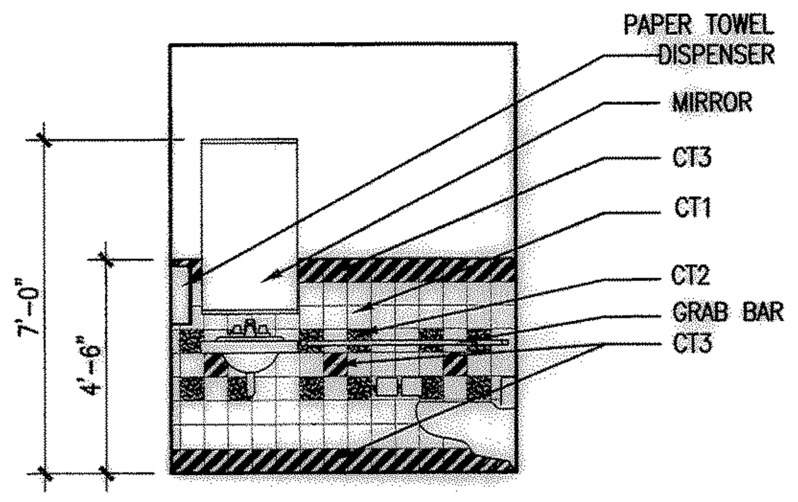
TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/4" = 1'-0"

PORT OF TACOMA
PIERCE COUNTY TERMINAL
CASEWORK ELEVATIONS

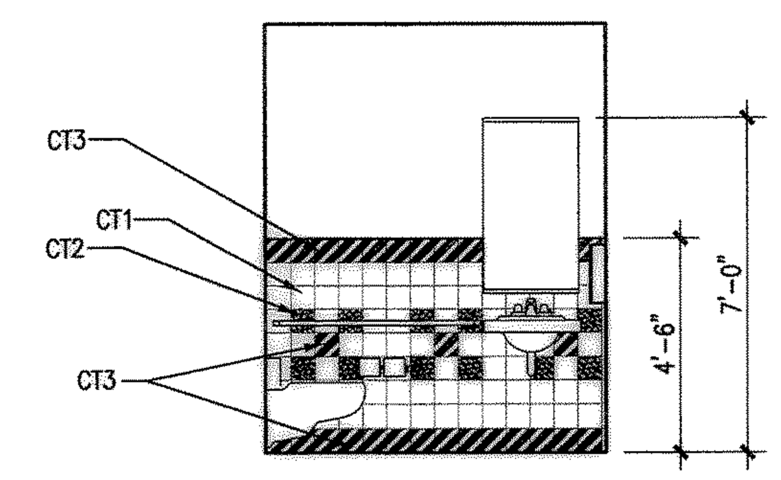
EP [illegible] 6321-17

SHEET 229 OF 230
A7.612

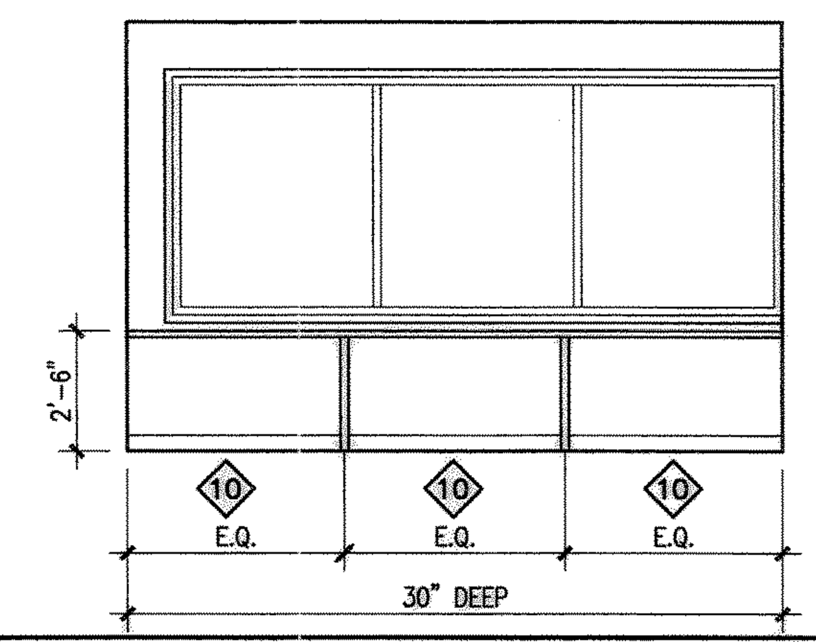
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING



1 MEN'S - ADMIN. BLDG.
SCALE: 1/4" = 1'-0" | DB | 302



2 WOMENS - ADMIN. BLDG.
SCALE: 1/4" = 1'-0" | DB | 303



3 CLERKS - MARINE BLDG.
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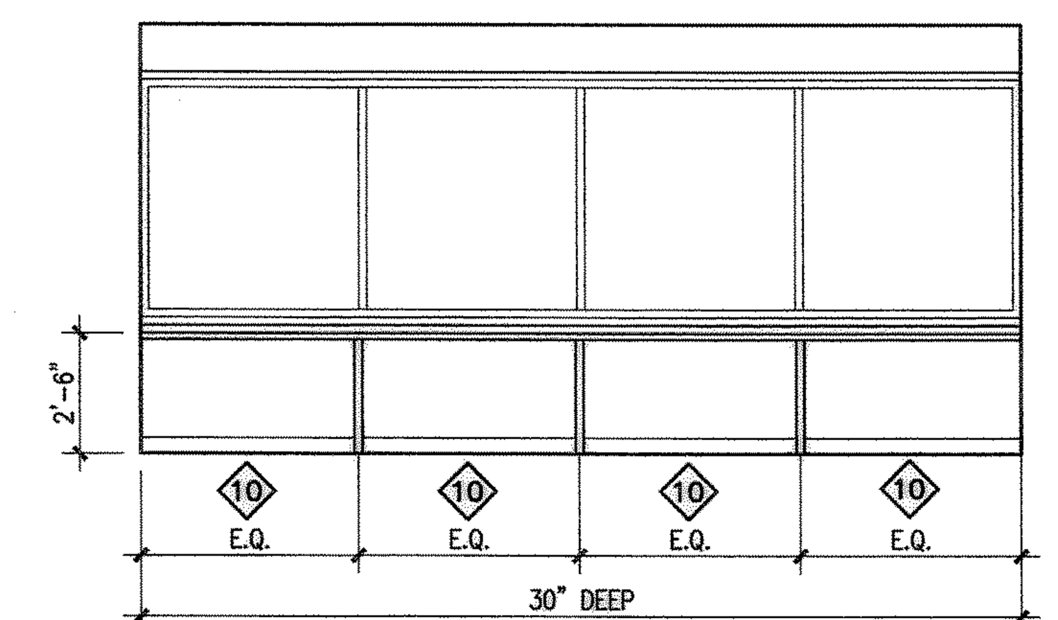

4 CLERKS - MARINE BLDG.
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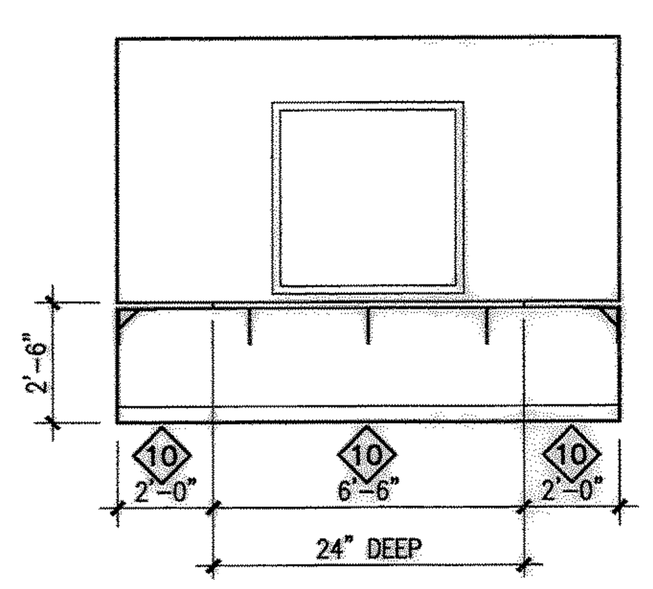
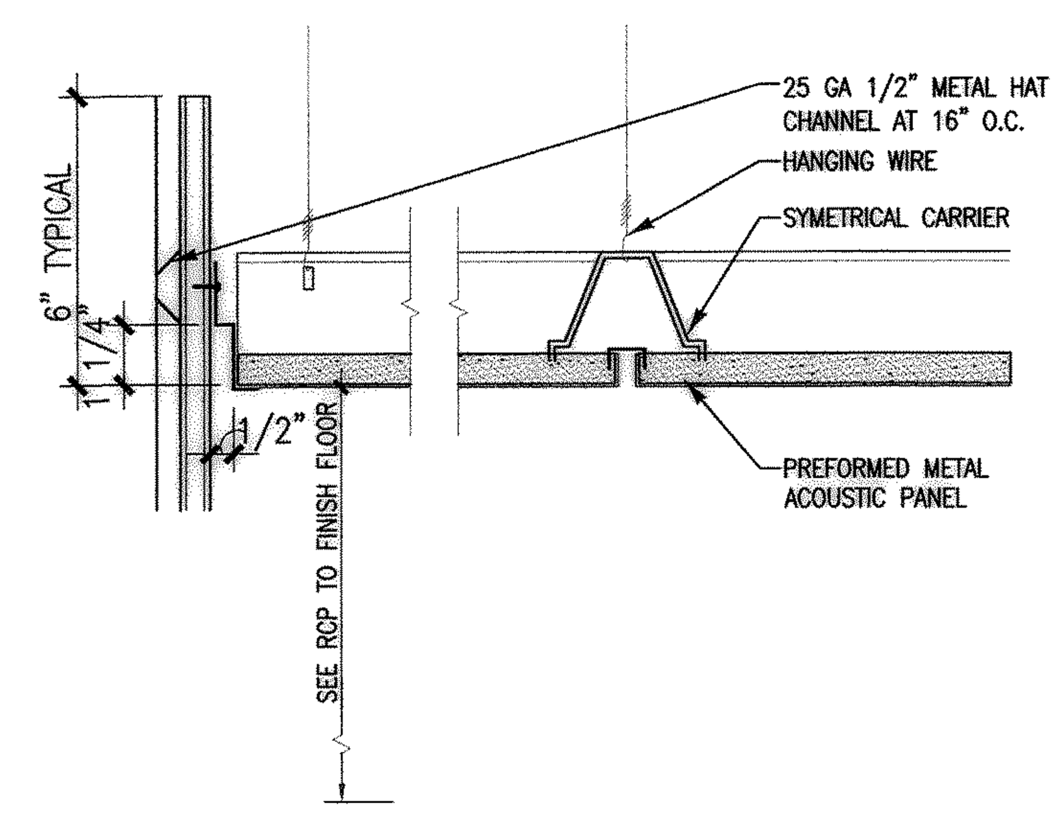
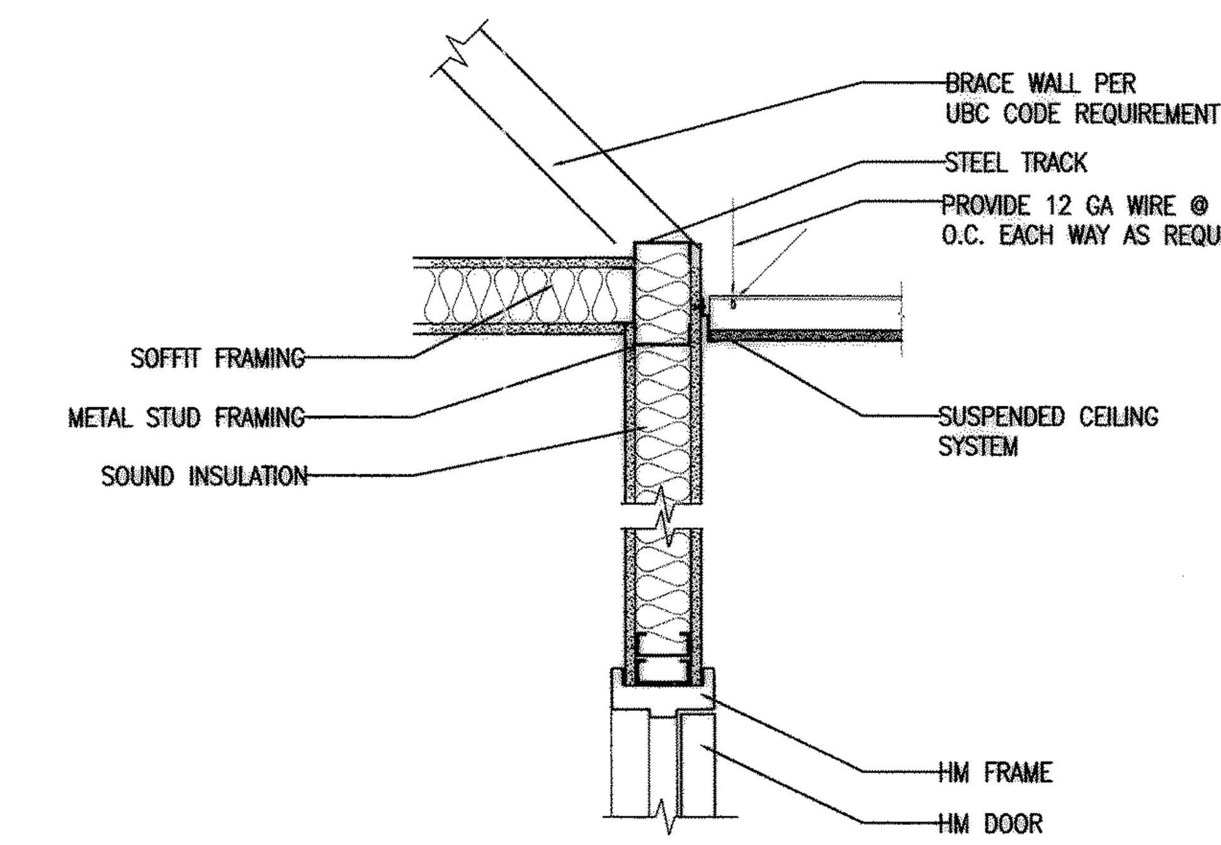


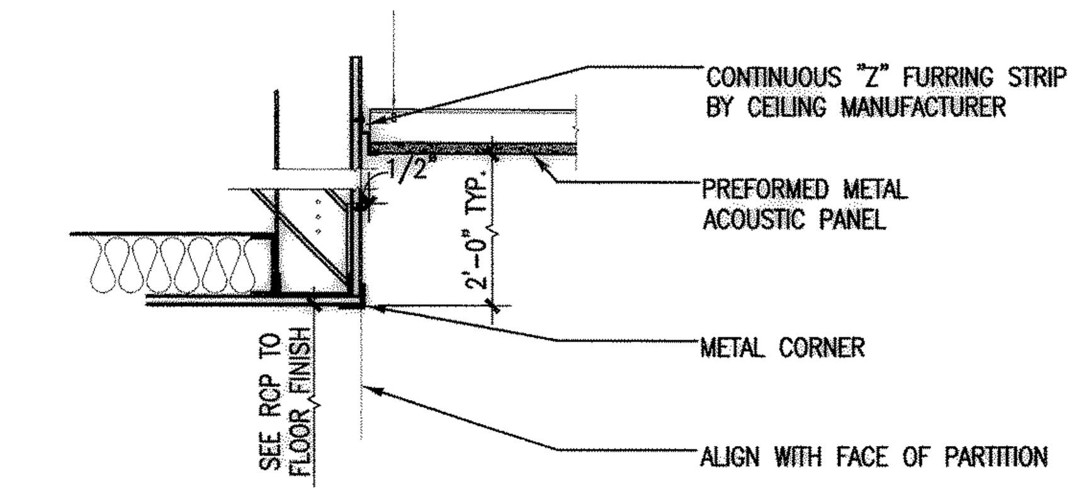
5 OFFICE - ROADABILITY BLDG.
SCALE: 1/4"=1'-0" | DB | 112



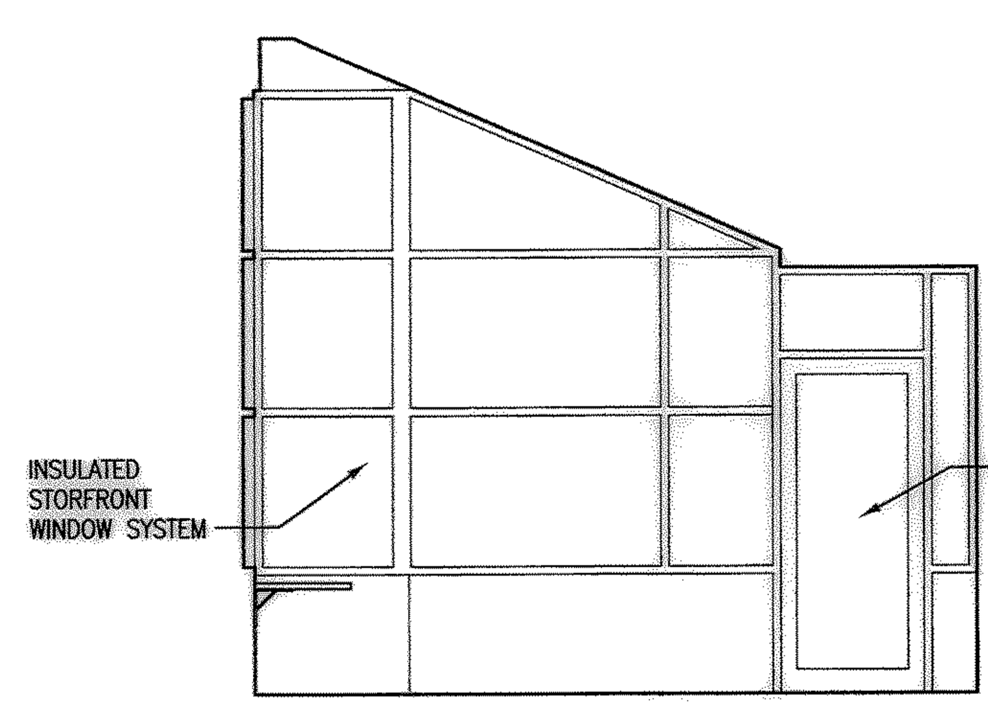
6 PANEL DETAIL
SCALE: 3"=1'-0" | DB | –



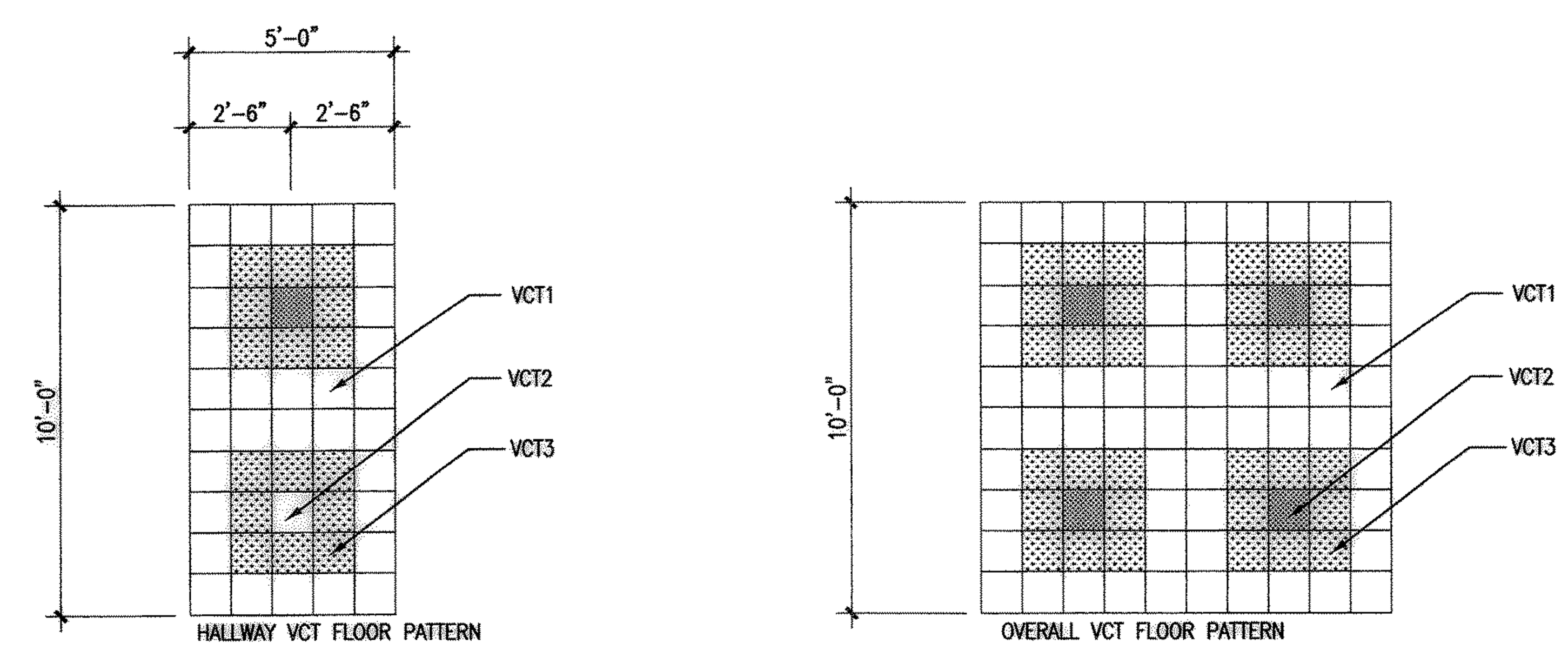
7 LAT. BRACING / DOOR DETAIL
SCALE: 1"=1'-0" | DB | –



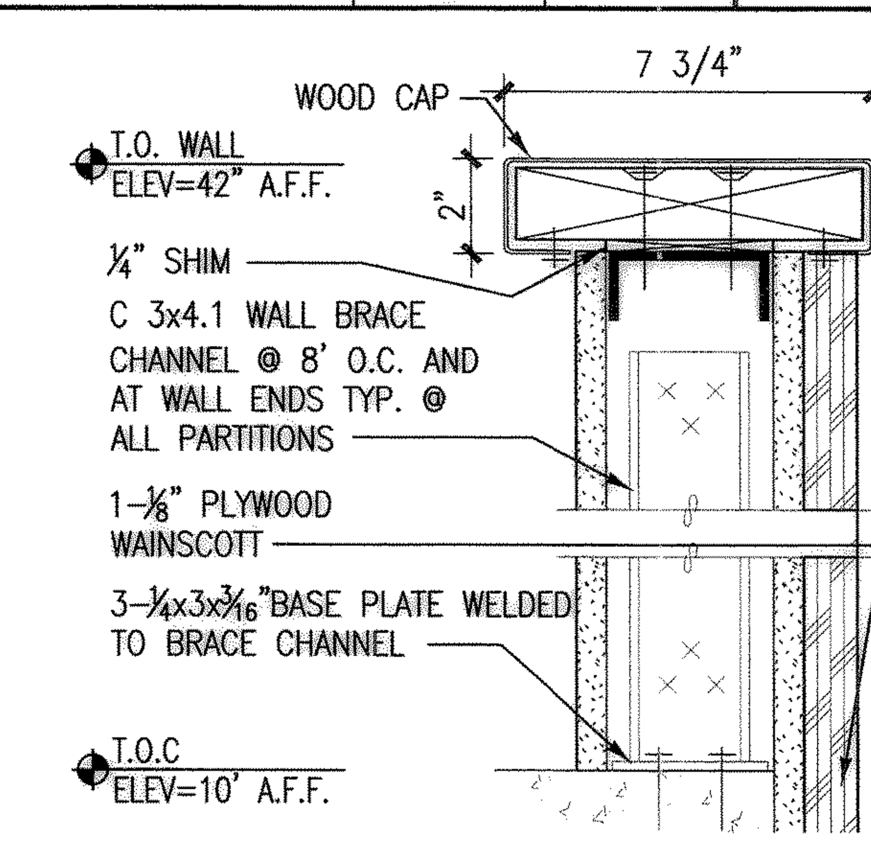
8 SOFFIT / ACT DETAIL
SCALE: 1"=1'-0" | DB | –



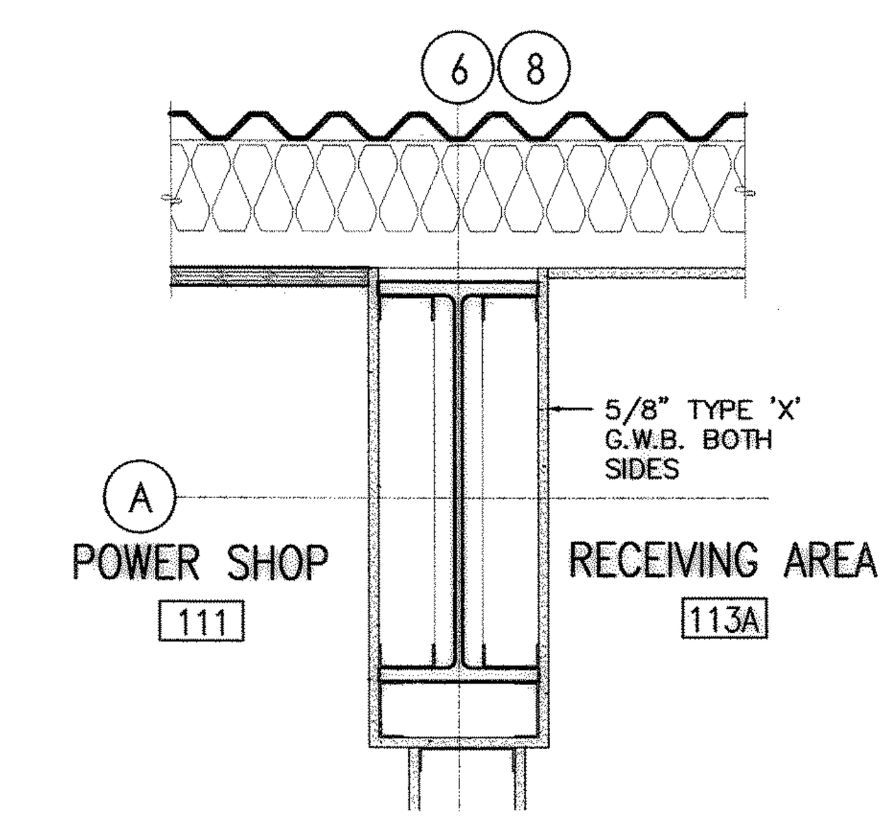
9 CLERKS - MAINT. BLDG.
SCALE: 1/4"=1'-0" | PC | 307



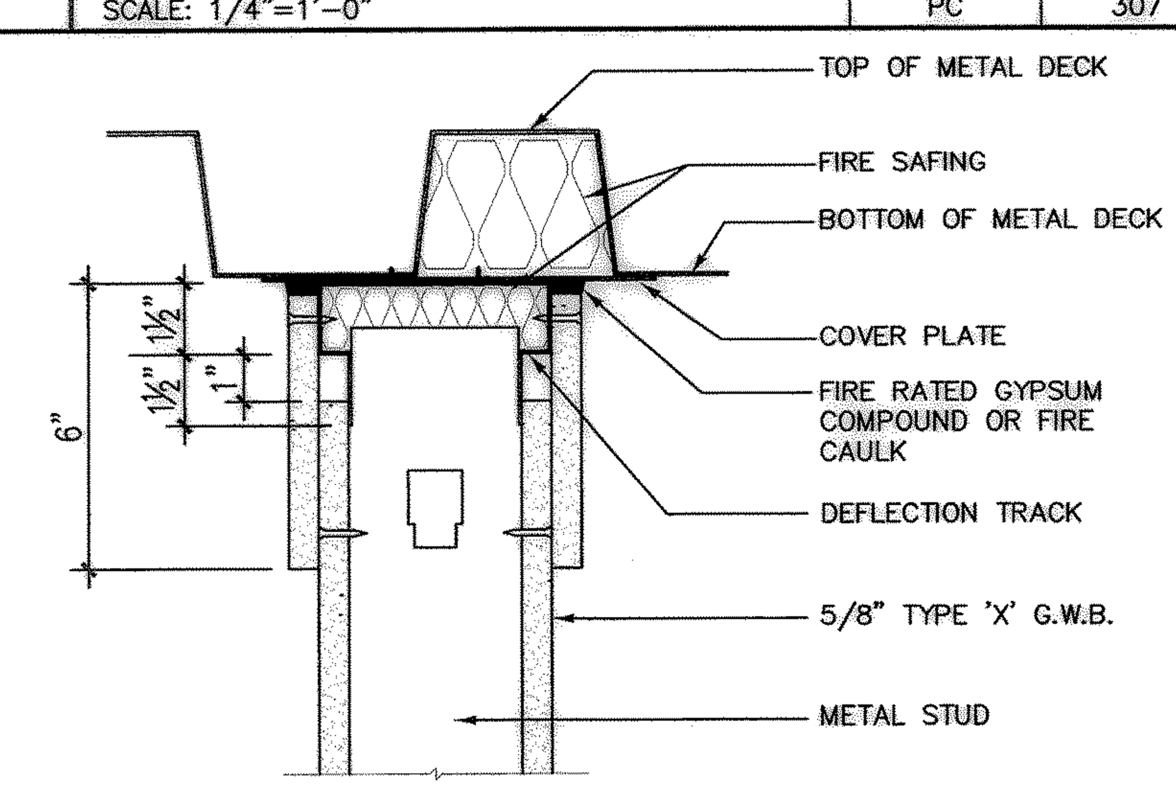
10 VCT FLOOR PATTERN
SCALE: 1/4"=1'-0" | DB | 307



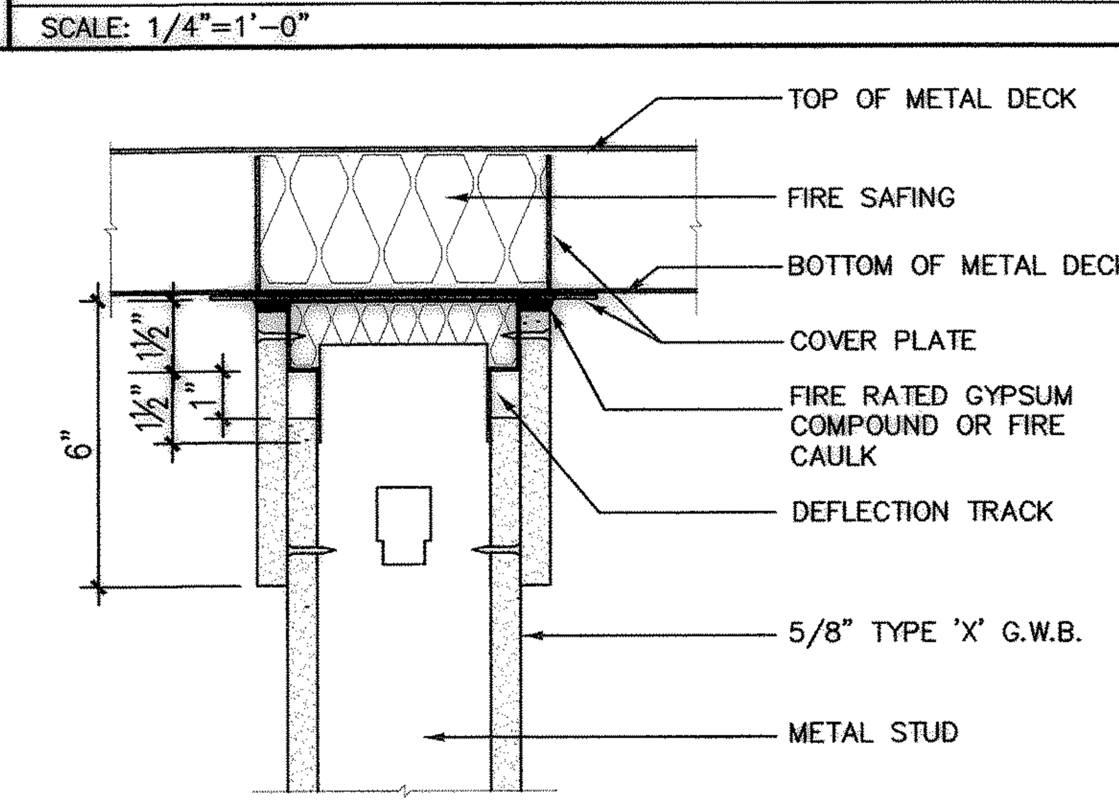
11 HALF HEIGHT WALL CAP
SCALE: 3"=1'-0" | PEC | –



12 1 HOUR COLUMN
SCALE: 1"=1'-0" | PEC | –



13 DEFLECTION HEAD
SCALE: 3"=1'-0" | PEC | –



14 DEFLECTION HEAD
SCALE: 3"=1'-0" | PEC | –

FILE NUMBER:E19747A613.DWG

PORT OF TACOMA U.S.A.
PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

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6021 12th street east
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RECORD DRAWING

APPROVED
CHIEF ENGINEER – DATE
LC 8/22/03
CHECKED BY – DATE
LC 8/22/03
PROJECT ENGR.– DATE

DRAWING DATE: 12/20/04
PORT ADDRESS:
PORT PARCEL:

PORT OF TACOMA
PIERCE COUNTY TERMINAL
CASEWORK ELEVATIONS AND INTERIOR DETAILS

TOWNSHIP: RANGE: SECTION:
DATUM: HORIZ: VERT:
DRAWING SCALE: 1/4" = 1'-0"

EP-5551-17
A7.613
SHEET 230 OF 230
CONTRACT NUMBER: 998154
E NUMBER: E1974
PHASE: RECORD DRAWING

6321-17