

PORT OF TACOMA

TOTE MARINE TOWER ROOF REPLACEMENT PROJECT NO. 101057.01 CONTRACT NO. 070350

PORT COMMISSIONERS:

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DON MEYER
DONALD C. JOHNSON
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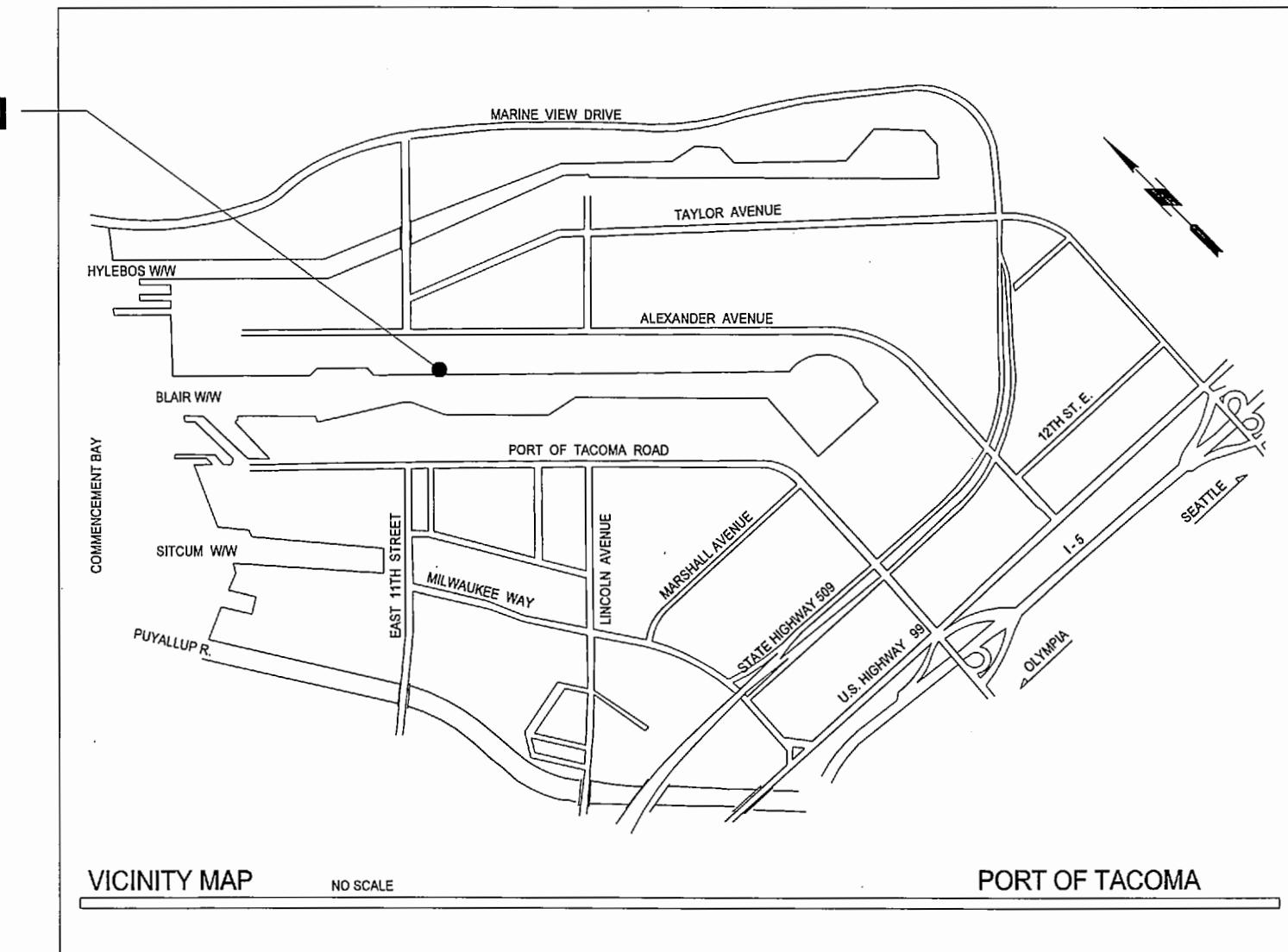
JOHN WOLFE
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DAKOTA CHAMBERLAIN
Director of Facilities
Development

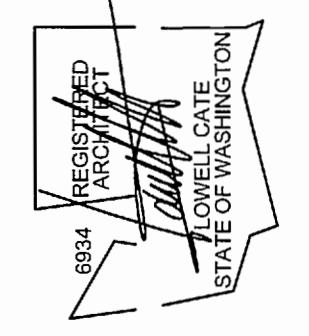
THAIS HOWARD, PE
Director of Engineering

REDRO REYES, PE
Project Manager

PROJECT LOCATION



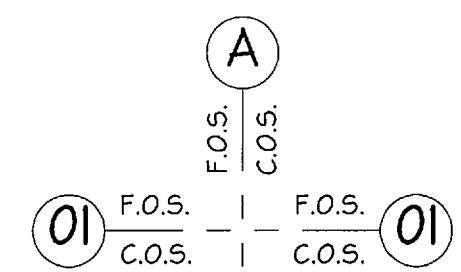
DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G1.0	1	COVER SHEET	
G2.0	2	PROJECT INFORMATION AND GENERAL NOTES	
G3.0	3	GENERAL NOTES	
D1.0	4	DEMOLITION PLANS	
A1.0	5	PLANS	
A3.0	6	EXTERIOR ELEVATIONS	
A7.0	7	DETAILS	
S1.0	8	STRUCTURAL GENERAL NOTES AND DETAILS	

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		MARK:	REVISION:	BY:	APPR:
 REGISTERED AGENT HELIX DESIGN GROUP STATE OF WASHINGTON STATE OF WASHINGTON 8934					
G1.0 1 OF 8 6560 TOTE MARINE TOWER COVER SHEET ROOF REPLACEMENT SECTION: 35 RANGE: 03 TOWNSHIP: 21 DAT-HRZ: WA83-5F VERT: MILW 19.39' @ Tide 22.1933 DRAWING SCAL: CONT/CONS: PHASE: BID SET 06.20.16 PARCEL: M. ID: PHASE: BID SET 06.20.16 PARCEL: M. ID:					
APPROVED: <i>[Signature]</i> HDG 06.20.16 CHECKED BY DATE: 7-16-16 DIRECTOR ENG. DATE: PROJ. ENGR. DATE: PRINTED BY: BLACHOWSKI PORT ADDRESS: TACOMA, WA					

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SYMBOLS

GRID LINE DESIGNATION
C.O.S. = center of structure
F.O.S. = face of structure
(E) = existing



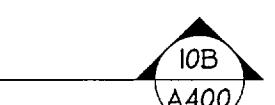
INTERIOR ELEVATION
ELEVATION NUMBER
SHEET NUMBER



EXTERIOR ELEVATION
ELEVATION NUMBER
SHEET NUMBER



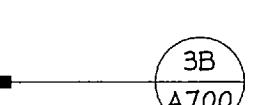
BUILDING SECTION
SECTION NUMBER
SHEET NUMBER



WALL SECTION
SECTION LETTER
SHEET NUMBER



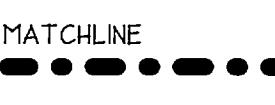
DETAIL
DETAIL NUMBER
SHEET NUMBER



REVISION
REVISION



MATCHLINE



NORTH ARROW



GENERAL NOTES

- ALL WORK SHALL CONFORM TO APPLICABLE BUILDING CODES AND ORDINANCES. WHERE MORE THAN ONE CODE OR ORDINANCE CONFLICT WITH EACH OTHER, THE MORE RESTRICTIVE CODE SHALL GOVERN.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY UNCERTAINTIES OR DISCREPANCIES WITH DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AT THE SITE, PROTECT THEM FROM DAMAGE AND REPORT ANY DISCREPANCIES WITH DRAWINGS.
- THE CONTRACTOR SHALL INSURE THE HEALTH AND SAFETY OF THE PUBLIC AND ALL WHO ENTER THE BUILDING DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE WORK OF SUBCONTRACTORS AND ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION.
- DRAWINGS SHALL NOT BE SCALED. NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS.
- ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUSTRY STANDARDS. DETAILS ARE PROVIDED TO INDICATE MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF A CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A SUGGESTED DETAIL FOR GUIDANCE AND APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION OF MECHANICAL AND ELECTRICAL WORK AS REQUIRED TO ACCOMMODATE CONSTRUCTION AND SHALL PROVIDE ALL NECESSARY OPENINGS, BASES, CURBS AND STRUCTURAL SUPPORT FOR CONDUITS, PIPES AND EQUIPMENT.
- DIMENSIONS ON PLANS ARE TO FACE OF STUD, FACE OF STRUCTURE OR OTHERWISE NOTED.
- REPAIR OR REPLACE EXISTING WALL FINISHES TO MATCH EXISTING ADJACENT FINISHES WHEN DAMAGED DURING COURSE OF CONSTRUCTION.
- DEMOLISH ALL EXISTING BUILDING COMPONENTS NECESSARY TO CONSTRUCT WORK.

ORIGINAL DOCUMENTS

THE COMPLETE SET OF ORIGINAL CONSTRUCTION DOCUMENTS FOR THE BUILDING ARE AVAILABLE FROM ENGINEER UPON REQUEST: TITLED: CONTROL TOWER BUILDING #9. DATED: NOVEMBER 18, 1983. DRAWING NO: 3858-12.

CODE INFORMATION

GOVERNING CODE

2012 INTERNATIONAL BUILDING CODE (IBC)
WASHINGTON STATE AMENDMENTS
2012 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
WASHINGTON STATE AMENDMENTS
2012 WASHINGTON STATE ENERGY CODE (WSEC)
2012 UNIFORM PLUMBING CODE (UPC)

OCCUPANCY CLASSIFICATION

IBC CHAPTER 3

B BUSINESS

CONSTRUCTION TYPE

IBC SECTION 602

VB (NON-FIRE RATED)
(COMBUSTIBLE CONSTRUCTION)

BUILDING ELEMENTS FIRE-RESISTANCE RATING

IBC TABLE 601

STRUCTURAL FRAME
BEARING WALLS
EXTERIOR
INTERIOR
NON-BEARING WALLS
EXTERIOR
INTERIOR
FLOOR CONSTRUCTION
ROOF CONSTRUCTION

0 HR

0 HR

0 HR

0 HR

0 HR

0 HR

OCCUPANT LOAD

IBC TABLE 1004.2

FIRST FLOOR LEVEL
SECOND FLOOR LEVEL
CONTROL TOWER LEVEL

21 OCCUPANTS [0]
27 OCCUPANTS [0] [2]
2 OCCUPANTS [2]

TOTAL

50 OCCUPANTS

[0] ASSEMBLY AREAS
[2] OFFICE AREAS

(1 OCCUPANT / 15 NET SQ FT)
(1 OCCUPANT / 100 GROSS SQ FT)

AUTOMATIC FIRE SPRINKLER SYSTEM

IBC CHAPTER 9

EXISTING BUILDING EQUIPPED WITH AN
AUTOMATIC FIRE SPRINKLER SYSTEM.

SCOPE OF WORK SUMMARY

- ROOFING REPLACEMENT: DEMOLITION OF EXISTING ROOFING MATERIALS CONSISTING OF STANDING SEAM METAL ROOFING PANELS INCLUDING RELATED COMPONENTS AND METAL TRIM AND FLASHING SYSTEMS. INSTALLATION OF STANDING SEAM METAL ROOFING INCLUDING RELATED COMPONENTS AND METAL TRIM AND FLASHING SYSTEMS. INCLUDES INSTALLATION OF MEMBRANE UNDERLayment (HIGH-TEMP) OVER ENTIRE ROOF AREA.
- GUTTER AND DOWNSPOUT REPLACEMENT.
- METAL SOFFIT PANEL REPLACEMENT: DEMOLITION OF EXISTING METAL SOFFIT LINER PANELS INCLUDING RELATED COMPONENTS AND METAL TRIM AND FLASHING SYSTEMS. INSTALLATION OF METAL SOFFIT PANELS INCLUDING RELATED COMPONENTS AND METAL TRIM AND FLASHING SYSTEMS. INCLUDES INSTALLATION OF WOOD BLOCKING FOR ATTACHMENT OF METAL SOFFIT PANELS.
- INSTALLATION OF FALL PROTECTION ANCHORS, INCLUDING CUTTING AND PATCHING OF EXISTING ROOF PLYWOOD SHEATHING FOR INSTALLATION OF STRUCTURAL MEMBERS FOR ANCHOR ATTACHMENT.
- INSTALLATION OF BIRD DETERREANCE SYSTEMS AT ROOF AREAS.
- EXHAUST FAN UNIT REPLACEMENT: DEMOLITION OF EXISTING EXHAUST FAN UNIT INCLUDING RAISED CURB AND RELATED METAL FLASHINGS. INSTALLATION OF EXHAUST FAN UNIT INCLUDING RAISED CURB AND RELATED METAL FLASHINGS.

 Port of Tacoma P.O. BOX 837 TACOMA, WA 98421-0837 360-253-5941	
MARK:	REVISION:
BY:	APPR:
DATE:	DATE:

PROJECT INFORMATION

SITE ADDRESS

500 ALEXANDER AVENUE EAST
TACOMA, WASHINGTON 98421

EXISTING BUILDING AREA

FIRST FLOOR LEVEL
SECOND FLOOR LEVEL
CONTROL TOWER LEVEL

985 SQ FT
884 SQ FT
157 SQ FT

TOTAL

2,028 SQ FT

G2.0 2 OF 8 PROJECT INFORMATION AND GENERAL NOTES		APPROVED:	HDG	06-20-16
		<i>Jeff B. Howell</i>	CHECKED BY	DATE
		7-14-16		
CONT/CONS:	TOWNSHIP: 21	RANGE: 03	SECTION: 35	DIRECTOR ENG. DATE: PROJ. ENGR. DATE
M. ID:	DAI-HRZ: WAB3-SF	VER: 1	MLW 19.39 @ Tide 22	PRINTED BY: BLACHOWSKI
PHASE: BID SET	06.20.16	PARCEL:	DRAWING SCALE: As indicated	PORT ADDRESS: TACOMA, WASHINGTON

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STANDARD ABBREVIATIONS LIST

ABB	ABBREVIATION
A.F.F.	ABOVE FINISH FLOOR
AP	ACCORDIAN PARTITION
ACT	ACOUSTICAL CEILING TILE
AWF	ACOUSTICAL WALL FABRIC
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ALUM	ALUMINUM
ACM	ALUMINUM COMPOSITE MATERIAL WALL PANEL
ADA	AMERICANS WITH DISABILITIES ACT
A.B.	ANCHOR BOLT
ACP	ARCHITECTURAL CONCRETE PAVER
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AWP	ARCHITECTURAL WALL PANEL
AS	ASPHALT SHINGLES
ASMB	ASSEMBLY
@	AT
BB	BACKERBOARD
BM	BEAM
BRG	BEARING
BTWN	BETWEEN
BN	BIRD NETTING
BLKG	BLOCKING
BD	BOARD
B	BOLLARD
BOT	BOTTOM
B.O.F.	BOTTOM OF FOOTING
BRK	BRICK MASONRY UNIT
BLDG	BUILDING
CAB	CABINET
CPT	CARPET
CLG	CEILING
CBB	CEMENTITIOUS BACKER BOARD
C.O.S.	CENTER OF STRUCTURE
€	CENTERLINE
CER	CERAMIC
CT	CERAMIC TILE
CHRL	CHAIR RAIL
CB	CHALKBOARD
CLR	CLEAR
CLK	CLINKER TILE
COL	COLUMN
C	COMPACT
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
C.I.	CONTINUOUS INSULATION
C.J.	CONTROL JOINT
COORD	COORDINATE
CG	CORNER GUARD
CV	COVER
CU	CUBIC
CWS	CURTAIN WALL SYSTEM
DML	DECORATIVE METAL LAMINATE
(D)	DEMOLISH / DEMOLITION
D	DEPTH
DTL	DETAIL
DIA	DIAMETER
DW	DISHWASHER
DR	DOOR
DBL	DOUBLE
DN	DOWN
D.S.	DOWNSPOUT
DFT	DRAFTING
D.F.	DRINKING FOUNTAIN
EA	EACH
ELECT	ELECTRICAL
E.P.	ELECTRICAL PANEL
EL	ELEVATION
ELEV	ELEVATOR
ENV	ENVELOPE
EF	EPoxy FLOORING
EQ	EQUAL
EQUIP	EQUIPMENT
E.F.	EXHAUST FAN
(E)	EXISTING
EPS	EXPANDED POLYSTYRENE RIGID INSULATION
EXP	EXPANSION
EJ	EXPANSION JOINT
EXT	EXTERIOR
EIFS	EXTERIOR INSULATION FINISH SYSTEM
XPS	EXTRUDED POLYSTYRENE RIGID INSULATION
F.O.S.	FACE OF STRUCTURE
FF	FACTORY FINISH
FRC	FIBER REINFORCED CEMENTITIOUS PANEL
FRL	FIBER REINFORCED LAMINATE
FRP	FIBER REINFORCED PANEL
FIG	FIGURE
FIN	FINISH
F.E.	FIRE EXTINGUISHER
F.H.	FIRE HYDRANT
FRSG	FIRE RATED SAFETY GLASS
FRT	FIRE-RETARDANT TREATED
FP	FIREPROOFING
F.P.	FLAG POLE
FLR	FLOOR
F.D.	FLOOR DRAIN
FT	FOOT / FEET
FTG	FOOTING
FDN	FOUNDATION
FRM1G	FRAMING
FH	FULL HEIGHT
F.I.C.	FURNISHED AND INSTALLED BY CONTRACTOR
F.I.E.	FURNISHED AND INSTALLED BY ENGINEER
F.I.C.	FURNISHED BY ENGINEER INSTALLED BY CONTRACTOR
(F)	FUTURE
GALV	GALVANIZED
GA	GAUGE
GEN	GENERAL
GC	GENERAL CONTRACTOR
GL	GLASS
GFRG	GLASS FIBER REINFORCED GYPSUM
GLB	GLUE LAMINATE BEAM
G.F.C.I.	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
G.F.G.I.	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GB	GRAB BAR
GNT	GRANITE TILE
GSF	GROSS SQUARE FOOTAGE
GT	GROUT
GYP	GYPSUM
G.A.	GYPSUM ASSOCIATION
G.W.B.	GYPSUM WALL BOARD
IRGB	IMPACT RESISTANT GYPSUM WALL BOARD
ID.	INSIDE DIAMETER
INT	INTERIOR
JAN	JANITOR
JT	JOINT
JST	JOIST
LAM	LAMINATE
LG	LAMINATED GLASS
LAV	LAVATORY
LP	LIGHT POLE
LIN	LINOLEUM
LVR	LOUVER
LBR	LUMBER
MMV	MANUFACTURED MASONRY VENEER
MIS	MANUFACTURED SIDING
MFR	MANUFACTURER
MB	MARKERBOARD
MAS	MASONRY
MV	MASONRY VENEER
MAX	MAXIMUM
MECH	MECHANICAL
MES	MECHANICAL EQUIPMENT SCREEN
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MTL	METAL
MCP	METAL CEILING PANELS
MF	METAL FABRICATIONS
MRS	METAL RAILING SYSTEM
MRP	METAL ROOFING PANEL
MSP	METAL SOFFIT PANEL
MSS	METAL STAIR SYSTEM
MWP	METAL WALL PANEL
MIN	MINIMUM
MIN.	MINUTE
MIR	MIRROR
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
M-R	MOLD RESISTANT
M	MORTAR
MT	MOSAIC TILE
NSM	NATURAL STONE MATERIAL
NOM	NOMINAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NTS	NOTES
NO.	NUMBER
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OZ	OUNCE
O.D.	OUTSIDE DIAMETER
O.R.D.	OVERFLOW ROOF DRAIN
O.R.L.	OVERFLOW ROOF LEADER
O.S.	OVERFLOW SCUPPER
O.H.	OVERHEAD
PT	PAINT
PERP	PERPENDICULAR
PSC	PLASTER SKIM COAT OVER CONCRETE
PLAM	PLASTIC LAMINATE
PLY	PLYWOOD
ISO	POLYISOCYANURATE RIGID INSULATION
PFT	PORCELAIN FLOOR TILE
PCS	PORTLAND CEMENT STUCCO
PSF	POUND PER SQUARE FOOT
LBS	POUNDS (WEIGHT)
P.A.F.	POWER ACCUTATED FASTNER
PP	POWER POLE
PAC	PRECAST ARCHITECTURAL CONCRETE
PCSU	PRECAST CONCRETE SOLID UNIT
PSMU	PRECAST STONE MASONRY UNIT
P.T.	PRESSURE TREATED
PS	PROJECTION SCREEN
QTY	QUANTITY
QT	QUARRY TILE
R	RADIUS
REF	REFRIGERATOR
REINF	REINFORCED
RLT	RELITE
(R)	RELOCATE
(r)	REMOVABLE
REQD	REQUIRED
R.O.W.	RIGHT OF WAY
R.	RISER
RCD	ROLLING COUNTER DOOR
RSD	ROLLING SERVICE DOOR
R.D.	ROOF DRAIN
R.L.	ROOF LEADER
RTU	ROOF TOP UNIT
R.O.	ROUGH OPENING
RB	RUBBER BASE
RF	RUBBER FLOORING
SG	SAFETY GLASS
(S)	SALVAGE
SCH	SCHEDULE
SLR	SEALER
SD	SECTIONAL DOORS
SIM	SIMILAR
SPM	SINGLE-PLY MEMBRANE ROOFING
SLS	SKYLIGHT SYSTEM
S.G.	SLAB ON GRADE
SAE	SLIDING AUTOMATIC ENTRANCE
S.D.	SOAP DISPENSER
SH	SOAP HOLDER
SC	SOLID CORE
SSM	SOLID SURFACE MATERIAL
S	SOUND
SPGL	SPANDREL GLASS
SPEC	SPECIFICATIONS
SG	SQUARE
SF	SQUARE FOOT
STN	STAIN
SS	STAINLESS STEEL
STD	STANDARD
SSMR	STANDING SEAM METAL ROOFING
SDT	STATIC DISSIPATED TILE
STL	STEEL
ST	STONE
SMU	STONE MASONRY UNIT
SFS	STOREFRONT SYSTEM
TWF	TACKABLE WALL FABRIC
TB	TACKBOARD
TEMP	TEMPORARY
T.I.	TENANT IMPROVEMENT
THM	THICK
TL	TILE
TBB	TILE BACKERBOARD
TCP	TIILT-UP CONCRETE PANEL
TC	TOILET COMPARTMENTS
TAG	TONGUE AND GROOVE
T.O.	TOP
T.O.B.	TOP OF BEARING
T.O.F.	TOP OF FLOOR
T.O.W.	TOP OF WALL
T.B.	TOWEL BAR
TFR	TRANSFORMER
T	TREAD
TRTD	TREATED
TS	TUBE STEEL
TYP	TYPICAL
UNFIN	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERTICAL
VMS	VERTICAL METAL SIDING
WAIN	WAINSCOT
WOM	WALK OFF MAT
WC	WALL COVERING
WSEC	WASHINGTON STATE ENERGY CODE
WC	WATER CLOSET
WH	WATER HEATER
WRGB	WATER RESISTANT GYPSUM WALLBOARD
WRB	WEATHER RESISTIVE BARRIER
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WB	WHITEBOARD
W	WIDTH
WIN	WINDOW
WWS	WINDOW WALL SYSTEM
WG	WIRE GLASS
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WOOD FLOORING
WS	WOOD SIDING
WP	WORK POINT

COLORS AND MATERIALS SCHEDULE

SYMBOL	MATERIAL	MANUFACTURER	COLOR / PATTERN / TYPE	LOCATION
DIVISION 7 - THERMAL AND MOISTURE PROTECTION				
MSP-1	METAL SOFFIT PANEL	AEP SPAN	COLOR: COOL PARCHMENT.	GENERAL REFER TO REFLECTED CEILING PLAN.
MTL-1	METAL FLASHING AND TRIM	AEP SPAN	COLOR: COOL PARCHMENT.	TRIM AND FLASHINGS AT ROOFING AND SOFFITS.
MTL-2	METAL FLASHING AND TRIM	AEP SPAN	COLOR: COOL WEATHERED COPPER.	GUTTERS, DOWNPOTS, RAKE TRIM AND FASCIA TRIM.
SSMR-1	STANDING SEAM METAL ROOFING	AEP SPAN	COLOR: COOL PARCHMENT.	GENERAL REFER TO ROOF PLAN.
DIVISION 9 - FINISHES				
PT-1	PAINT	SHERWIN-WILLIAMS	COLOR: SW 7052 GRAY AREA.	REFER TO EXTERIOR ELEVATIONS.
PT-2	PAINT	SHERWIN-WILLIAMS	COLOR: SW 7020 BLACK FOX.	REFER TO EXTERIOR ELEVATIONS.
PT-3	PAINT	SHERWIN-WILLIAMS	COLOR: SW 6258 TRICORN BLACK.	REFER TO EXTERIOR ELEVATIONS.



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STATE OF WASHINGTON

COLORS AND MATERIALS NOTES	
I. NOT USED.	FOOTNOTES: <input type="checkbox"/> COLOR: MATCH EXISTING BUILDING MATERIAL COLOR.

ROOFS	STANDING SEAM METAL ROOFING (2x WOOD FRAMING)	ASSEMBLY	MATERIALS	SOFFITS	METAL SOFFIT PANEL (2x WOOD FRAMING)	ASSEMBLY	MATERIALS
GENERAL NOTES							

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DEMOLITION LEGEND	
DESCRIPTION	SYMBOL AND TEXT
DEMOLITION ROOFING MATERIALS	
demolition of existing standing seam metal roofing system including related metal trim and flashing	
DEMOLITION METAL GUTTER	
demolition of existing metal gutter and related components	
DEMOLITION DOWNSPOUT	
demolition of existing metal downspout including support brackets	
	D.S. (D)

DEMOLITION LEGEND	
DESCRIPTION	SYMBOL AND TEXT
DEMOLITION METAL SOFFIT LINER PANEL	
demolition of existing metal soffit liner panel including related metal trim, closures, flashings and screened vents	

DEMOLITION NOTES	
SYMBOL	NOTE
(D01)	DEMOLISH METAL SOFFIT LINER PANEL AND RELATED SOFFIT COMPONENTS; INCLUDING METAL CLOSURES, METAL TRIM AND CONTINUOUS METAL SOFFIT SCREENED VENT.
(D02)	REPLACE VENT PIPE BOOT FLASHING ASSEMBLY.
(D03)	DISCONNECT AND RECONNECT WIND SOCK BRACKET TO FACE OF ROOF RAKE TRIM; REPLACE ATTACHMENT CLIP AND FASTENERS. PAINT WIND SOCK BRACKET (COLOR: PT-2)
(D04)	REMOVE AND REINSTALL ANTENNA AND SUPPORT BASE MOUNTED TO ROOF. INSTALL USING STAINLESS STEEL FASTENERS. PAINT METAL SUPPORT BASE AND MOUNTING BRACKETS. (COLOR: PT-1)
(D05)	CAREFULLY DISCONNECT EXISTING ELECTRICAL DEVICE FROM EXISTING WIRING AND REMOVE TO ALLOW FOR ROOFING REPLACEMENT AND SOFFIT REPLACEMENT.
(D06)	COIL UP EXISTING WIRING FROM REMOVED ELECTRICAL DEVICES; PROVIDE TEMPORARY SUPPORT AND PROTECTION OUT OF THE WAY OF ROOFING REPLACEMENT AND SOFFIT REPLACEMENT.
(D07)	CAREFULLY REMOVE PLUMBING VENT FLASHING TO ALLOW FOR ROOFING DEMOLITION. EXISTING PLUMBING VENT PIPE SHALL REMAIN; PROTECT FROM CONSTRUCTION WORK.
(D08)	CAREFULLY DISCONNECT EXISTING EXHAUST FAN FROM DUCTWORK, POWER AND CONTROLS. REMOVE EXHAUST FAN, CURB, CRICKET AND METAL FLASHINGS TO ALLOW FOR ROOFING REPLACEMENT. EXISTING DUCTWORK, POWER AND CONTROL WIRING TO REMAIN FOR CONNECTION TO EXHAUST FAN; PROTECT FROM CONSTRUCTION WORK.
(D09)	COIL UP EXISTING WIRING FROM REMOVED ELECTRICAL DEVICES. PROTECT FROM DAMAGE.

GENERAL NOTES	
SYMBOL	NOTE
	<p>1. THESE PLANS DELINATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIALS. THESE PLANS HAVE BEEN DEVELOPED FROM ENGINEER PROVIDED ORIGINAL DRAWINGS AND MAY VARY FROM ACTUAL FIELD CONDITIONS. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREAS AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH EXISTING CONDITIONS THEREON. ALL BIDDERS ARE ENCOURAGED TO PERFORM A WALK THROUGH PRIOR TO BIDDING.</p> <p>2. COORDINATION OF THESE DRAWINGS WITH THE REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DISCREPANCIES BETWEEN / OR WITHIN CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.</p> <p>3. CONTRACTOR SHALL PROVIDE PROTECTION OF MATERIALS, EQUIPMENT AND FINISHES WHICH ARE TO REMAIN OR NOTED TO BE SALVAGED AND / OR REUSED. DAMAGES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO ENGINEER.</p> <p>4. CONTRACTOR SHALL DEMOLISH AND / OR CAP ALL UTILITIES CONNECTED TO EQUIPMENT IDENTIFIED TO BE DEMOLISHED OR SALVAGED SUCH THAT THE UTILITY WILL NOT INTERFERE WITH THE WORK UNDER THIS CONTRACT.</p> <p>5. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURELY STORING ALL ITEMS IDENTIFIED TO BE CAREFULLY REMOVED, SALVAGED AND REINSTALLED.</p> <p>6. CONTRACTOR TO BE RESPONSIBLE FOR CUT AND PATCH AS REQUIRED TO ACCOMMODATE CONSTRUCTION; INCLUDING ALL MECHANICAL AND ELECTRICAL WORK.</p> <p>7. STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL TEMPORARY SHORING SUPPORT IS PART OF THIS CONTRACT.</p> <p>8. DEMOLITION WORK TO ACCOMMODATE ROOFING AND SOFFIT REPLACEMENT WORK HAS BEEN CONCEPTUALLY SHOWN FOR MAJOR WORK ITEMS. CONTROLS, PIPING, ELECTRICAL AND OTHER SIMILAR ITEMS WHICH MAY REQUIRE CUTTING AND PATCHING HAVE NOT BEEN SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE CUTTING AND PATCHING AS REQUIRED FOR ALL WORK IN THE PROJECT.</p> <p>9. CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL AND MECHANICAL EQUIPMENT IS OPERATIONAL BEFORE DISCONNECTING FROM BUILDING SERVICES. ALERT ENGINEER OF ANY NON OPERATIONAL EQUIPMENT.</p> <p>10. TURN OFF POWER AND COMMUNICATION SIGNAL TO ALL EQUIPMENT PRIOR TO DISCONNECTING FROM WIRING TO PREVENT DAMAGING EQUIPMENT.</p>

5G

1/8" = 1'-0"

10C

1/8" = 1'-0"

CONTROL TOWER LEVEL - DEMOLITION ROOF PLAN

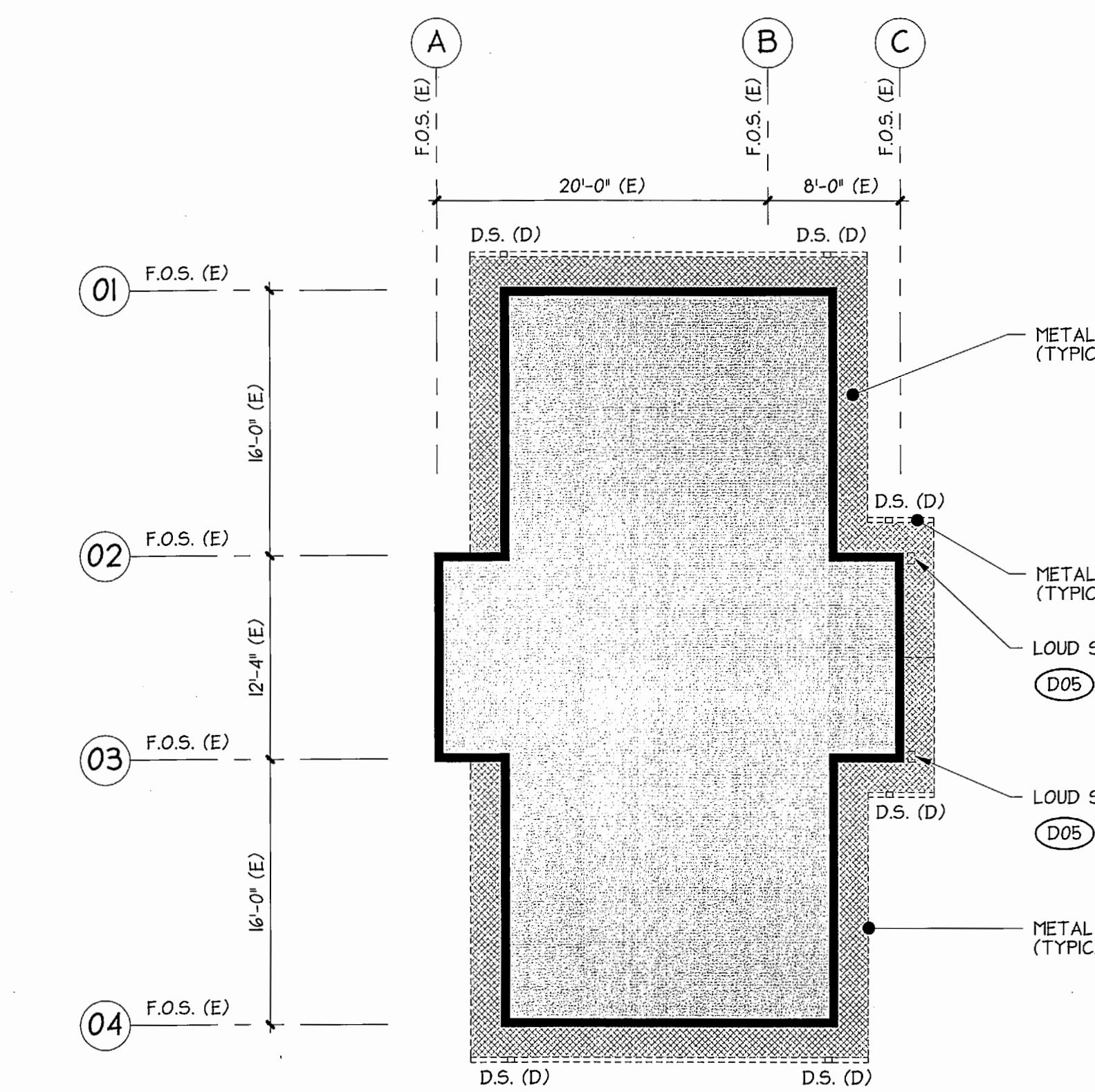
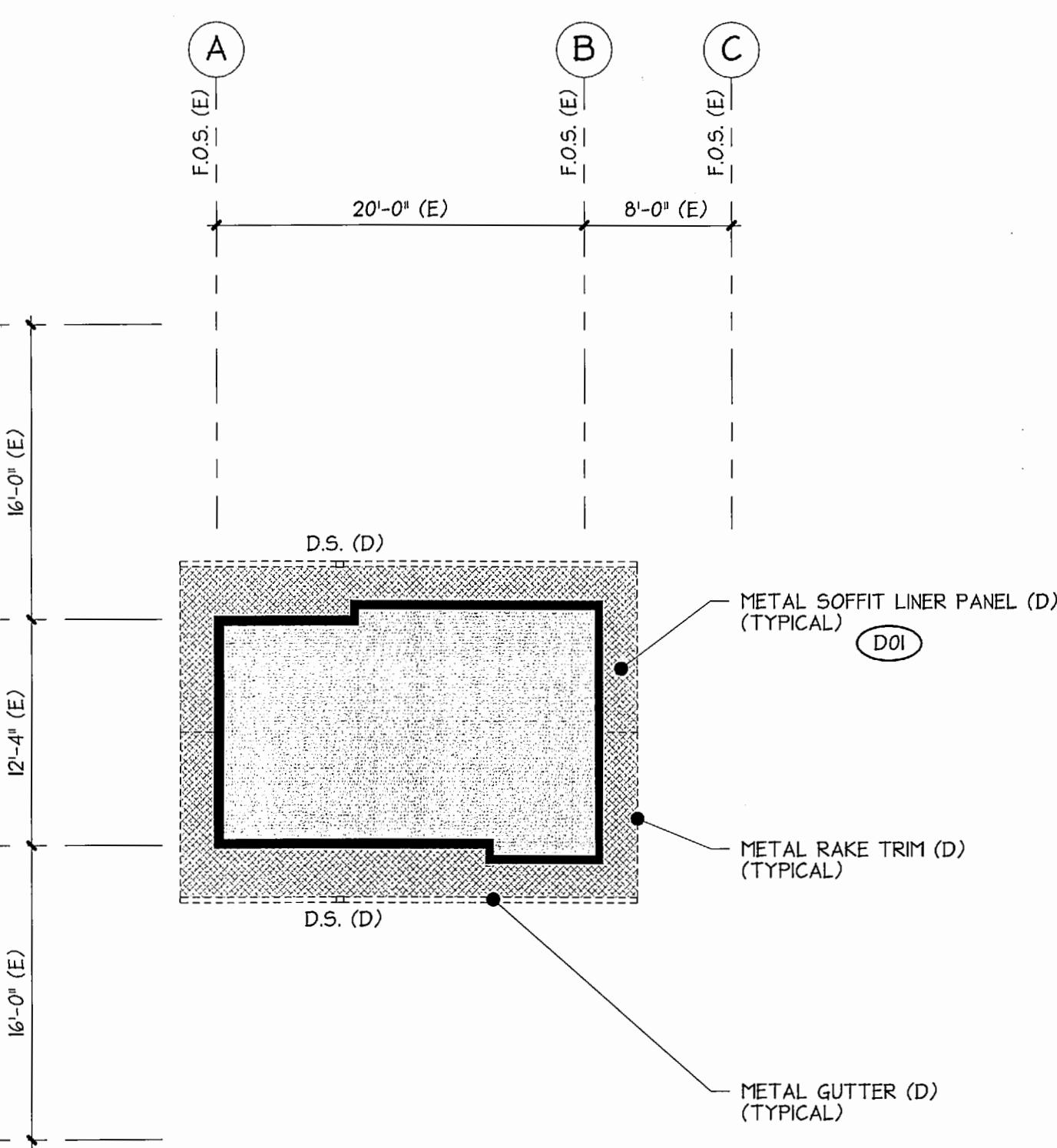
CONTROL TOWER LEVEL - DEMOLITION REFLECTED CEILING PLAN

1/8" = 1'-0"

10G

1/8" = 1'-0"

SECOND FLOOR LEVEL - DEMOLITION ROOF PLAN



D1.0
4 OF 8

TOTE MARINE TOWER
ROOF REPLACEMENT
DEMOLITION PLANS

CONT/CONS: TOWNSHIP: 21 RANGE: 03 SECTION: 35
DATE-HRZ: WA83-5F VERT: MLW 19.39' @ Tide 22.19.33
PARCEL: DRAWING SCALE: 1/8" = 1'-0"

Port of
Tacoma
6021 12th street east
suite 201
Tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499
PO BOX 1837 TACOMA, WA 98441 (253)884-5441
design group
MARK: REVISION: BY: APR: DATE:
REGISTERED TRADE
LOWELL CANTON
STATE OF WASHINGTON

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ELEVATION LEGEND

DESCRIPTION	SYMBOL AND TEXT
ASSEMBLY TYPES	
W = wall type	
R = roof type	
S = soffit type	
F = floor type	

HEIGHT DESIGNATION

surface type designation

T.O.F. = top of floor

T.O.B. = top of bearing

T.O.P. = top of plate

T.O.F.

(E) = existing

GENERAL NOTES

THE JOURNAL OF CLIMATE

OTE

REFER TO BUILDING ASSEMBLY LEGEND
ON SHEET G020 FOR ASSEMBLY TYPES.

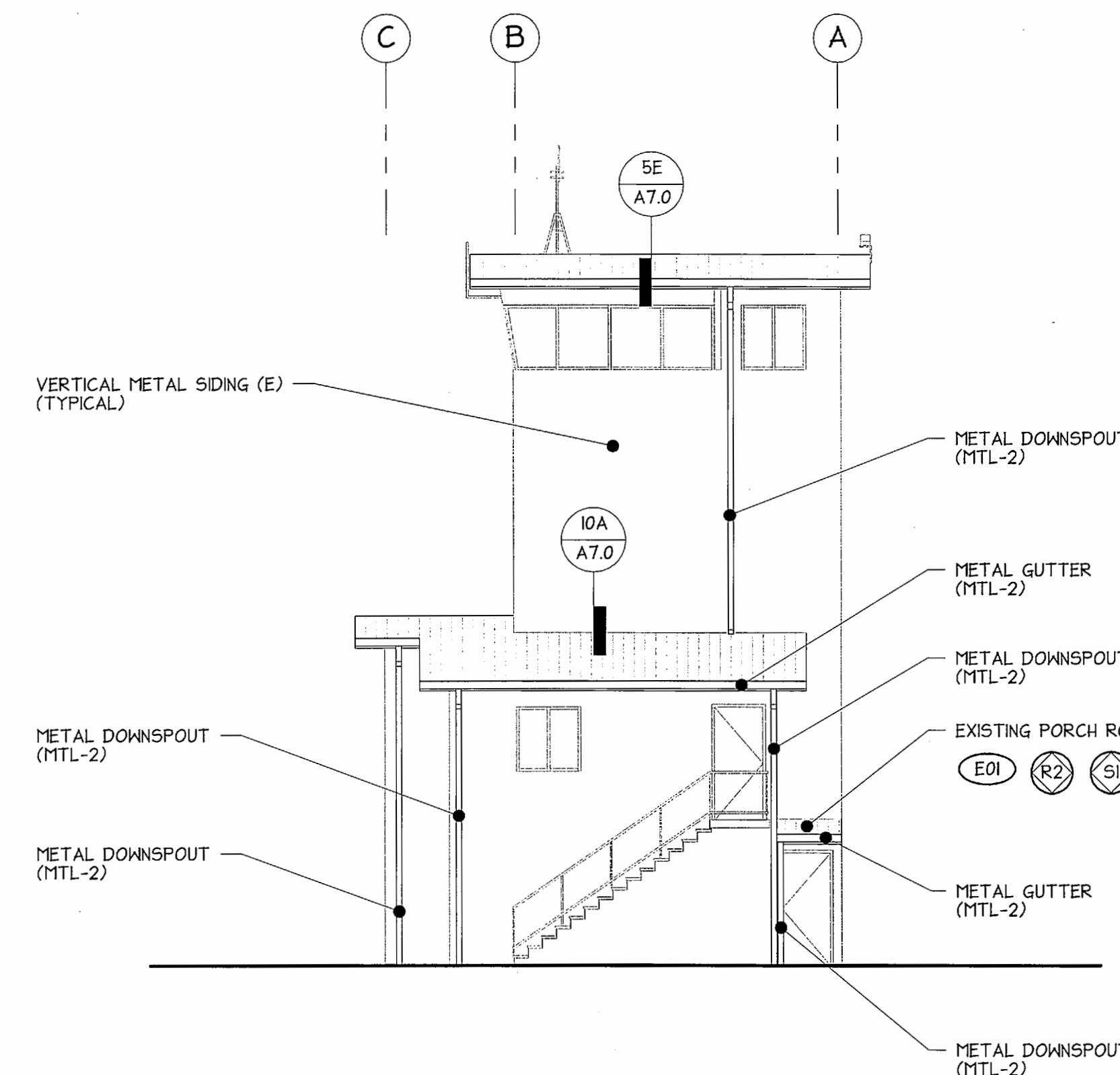
ABBREVIATIONS:

(D) - DEMOLITION
(R) - RELOCATE
(E) - EXISTING TO REMAIN
(S) - SALVAGE

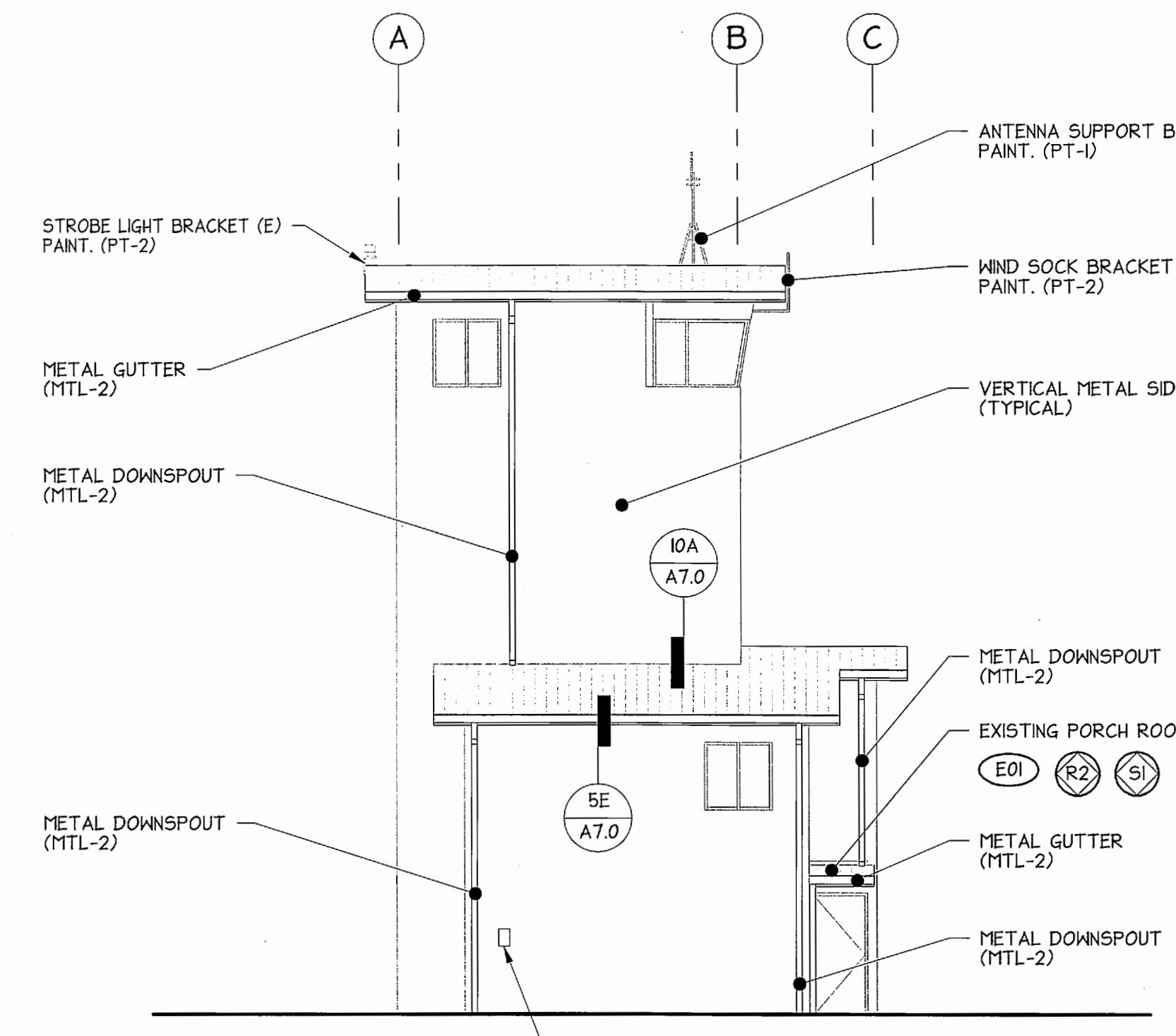
REFER TO SHEET G3.0 FOR STANDARD
ABBREVIATIONS LIST.

PAINT ALL EXPOSED CONDUITS, PIPES AND
MOUNTING BRACKETS AT ROOF AREAS.

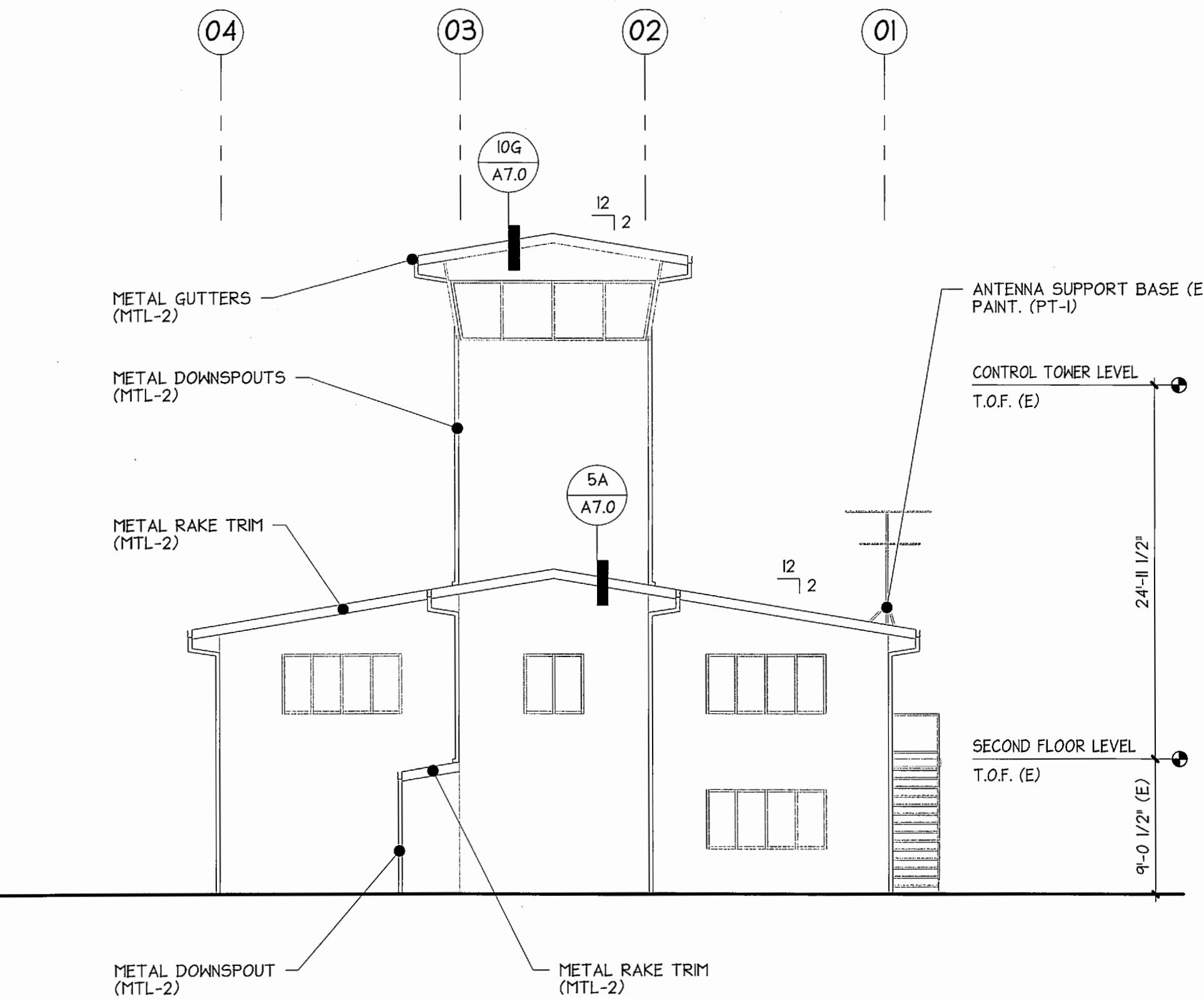
CONNECT DOWNSPOUTS TO EXISTING
STORM DRAIN PIPES AT GRADE.



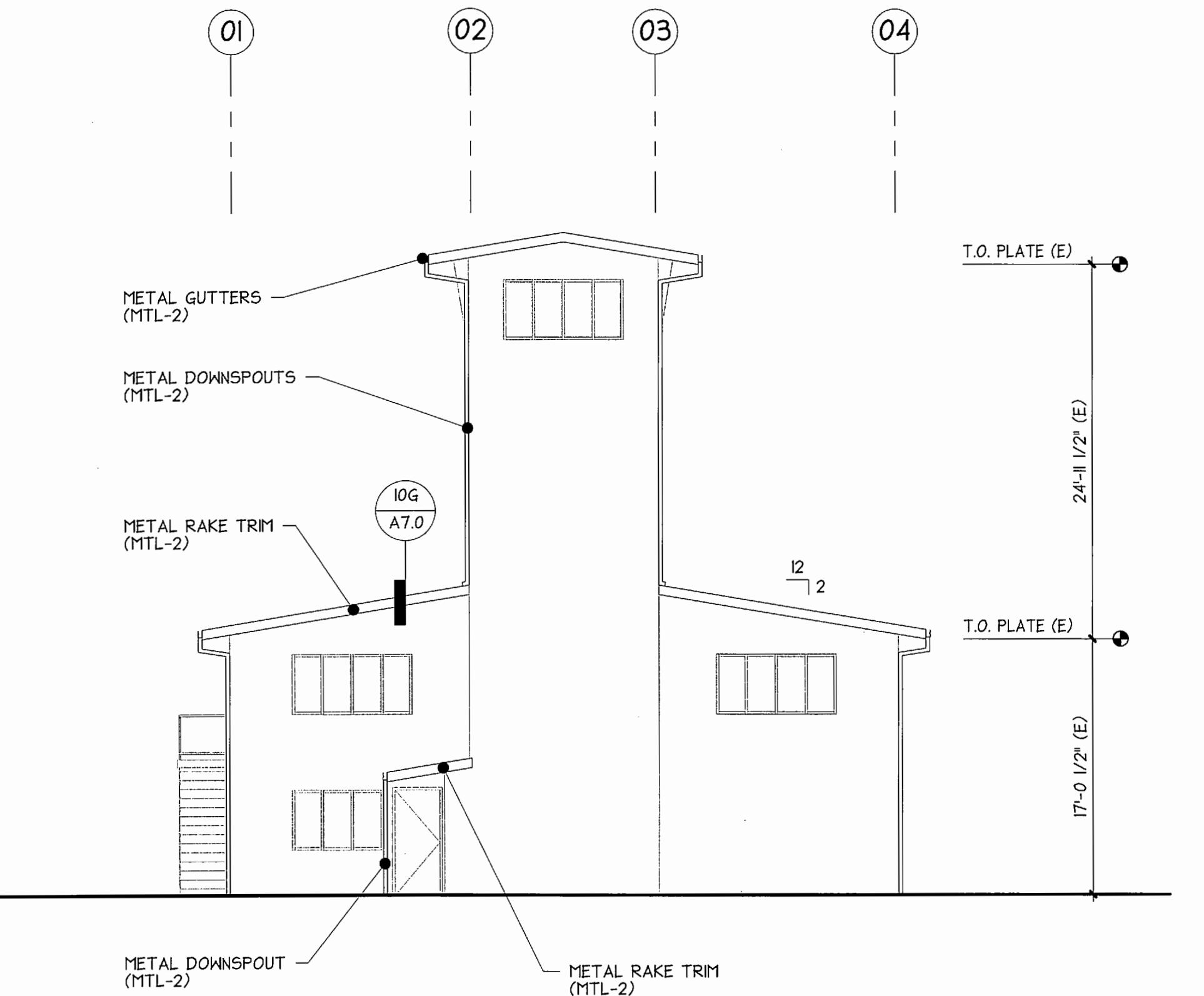
NORTH ELEVATION



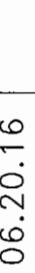
SOUTH ELEVATION

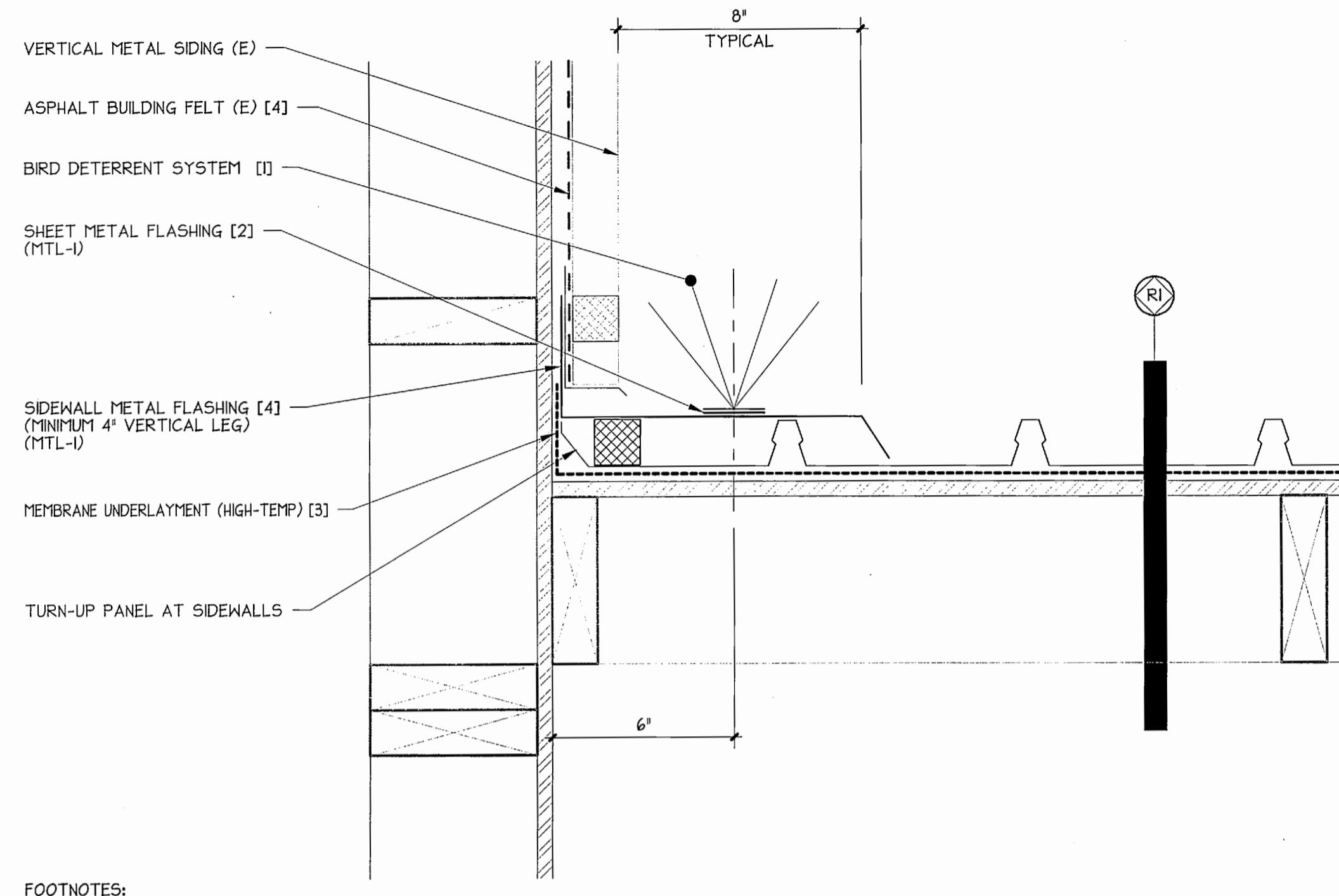


EAST ELEVATION



WEST ELEVATION

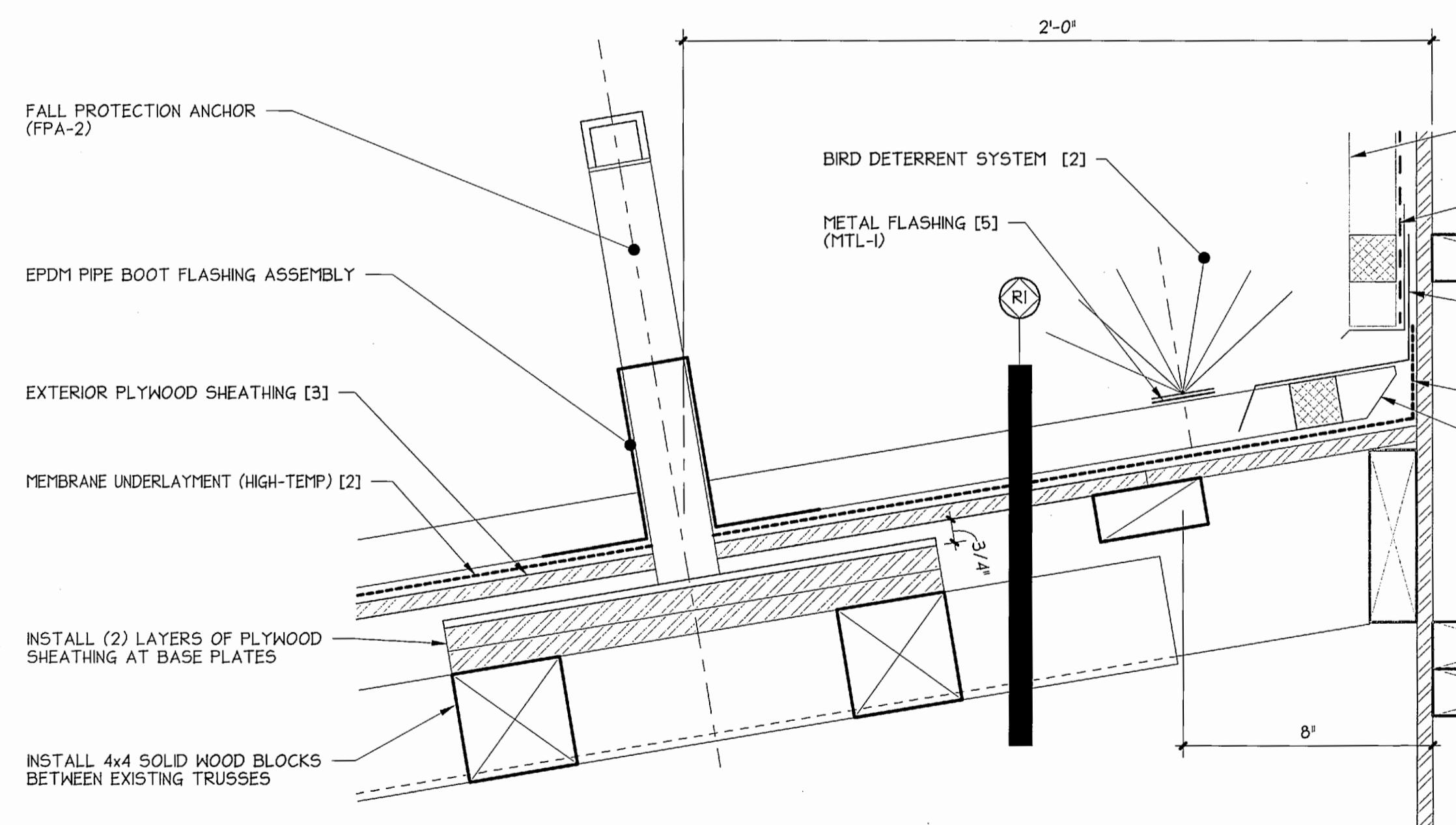
A3.0		TOTE MARINE TOWER ROOF REPLACEMENT		EXTERIOR ELEVATIONS	
6550 6 OF 8		APPROVED: <i>John Howard</i> 7-14-16		HDG CHECKED BY DATE PROJ. ENGR. DATE	
CONT/CONS: M. I.:		TOWNSHIP: 21 DAT-HRZ: WA83-SF M. I.:		RANGE: 03 VERT: MLLW 19.39' @ Tide 22 1933 PARCEL:	
PHASE(BID SET 06.2.0.16		SECTION: 35		DRAWING SCALE: 1/8" = 1'-0"	
6021 12th street east suite tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499		MARK: REVISION: PRINTED BY: BLACHOWSKI PORT ADDRESS: TACOMA, WASHINGTON		BY: APPR: DATE:	
 Helix design group		P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841			
6834 REGISTERED ARCHITECT John Howard LOWELL GATE STATE OF WASHINGTON					



FOOTNOTES:

- [1] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
- [2] 2" WIDE, 20 GAUGE CONTINUOUS SHEET METAL FLASHING; FASTENED TO SIDEWALL METAL FLASHING.
- [3] EXTEND MEMBRANE UNDERLAYMENT (HIGH-TEMP) UPWARD 4" MINIMUM OVER PLYWOOD SHEATHING OF EXISTING WALLS.
- [4] LAP EXISTING BUILDING FELT OVER VERTICAL LEG OF SIDEWALL METAL FLASHING.

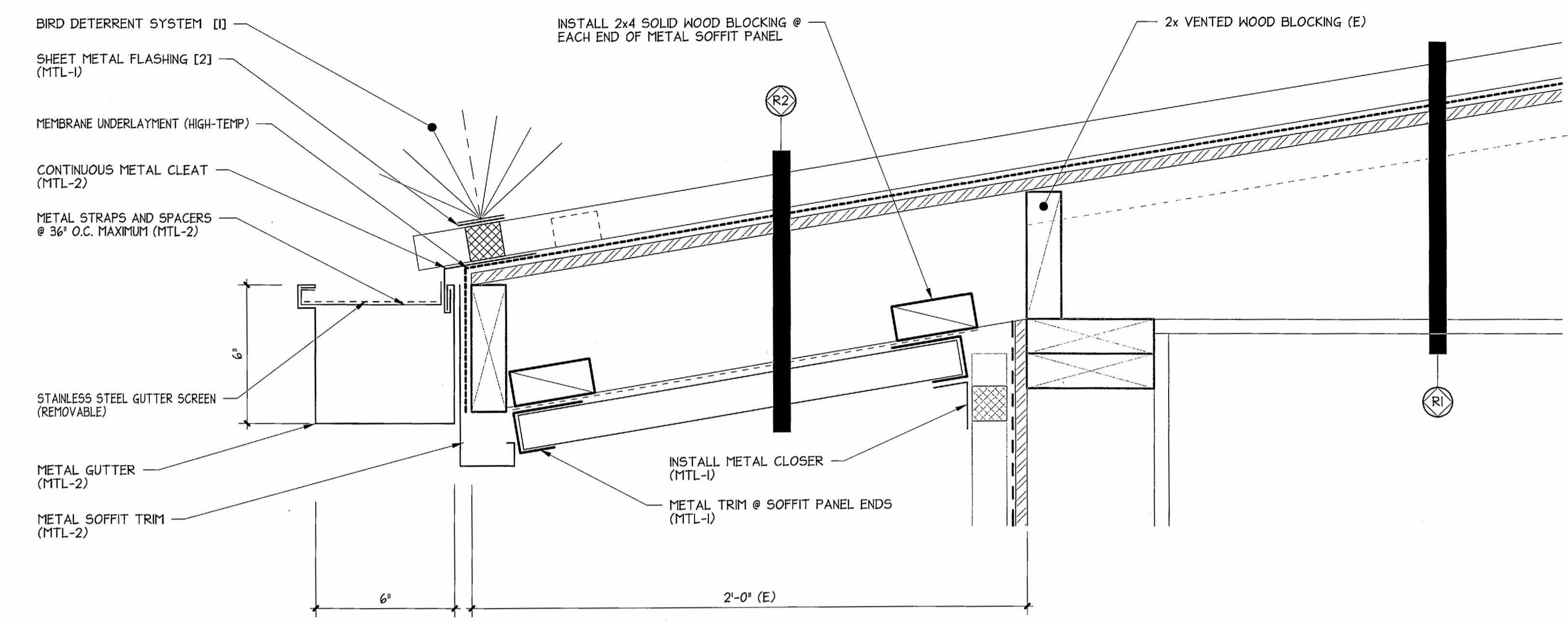
5A DETAIL
3" = 1'-0"



FOOTNOTES:

- [1] EXTEND MEMBRANE UNDERLAYMENT (HIGH-TEMP) UPWARD 4" MINIMUM OVER PLYWOOD SHEATHING OF EXISTING WALLS.
- [2] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
- [3] CUT AND PATCH EXISTING PLYWOOD SHEATHING AT ROOF FOR INSTALLATION OF WOOD FRAMING.
- [4] LAP EXISTING BUILDING FELT OVER VERTICAL LEG OF ENDWALL METAL FLASHING.
- [5] 2" WIDE, 20 GAUGE CONTINUOUS SHEET METAL FLASHING; FASTENED TO STANDING SEAM METAL ROOFING PANELS.

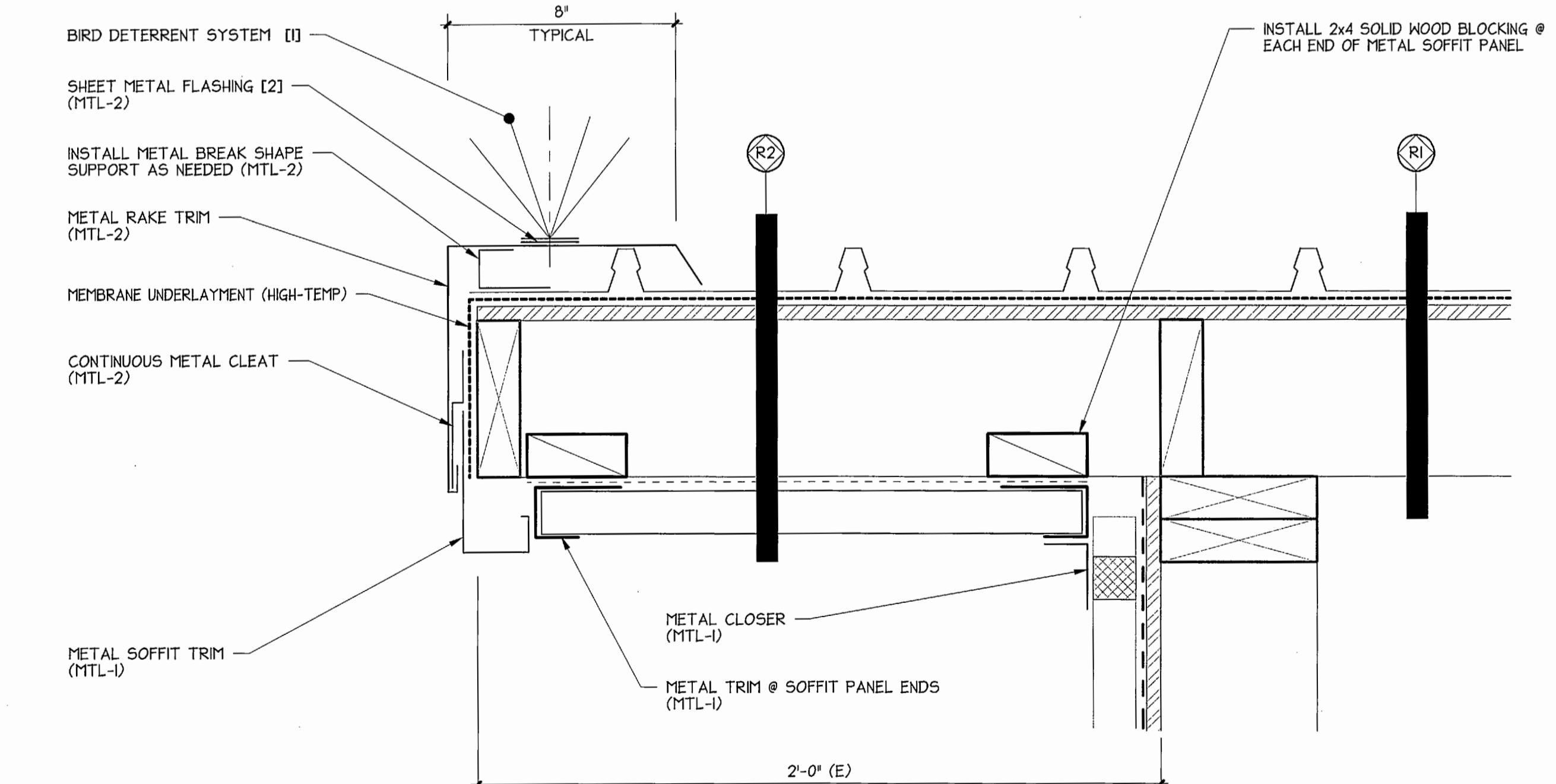
5E DETAIL
3" = 1'-0"



FOOTNOTES:

- [1] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
- [2] 2" WIDE, 20 GAUGE CONTINUOUS SHEET METAL FLASHING; FASTENED TO STANDING SEAM METAL ROOFING PANELS.

5F DETAIL
3" = 1'-0"



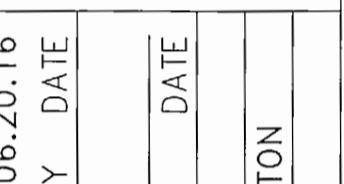
FOOTNOTES:

- [1] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
- [2] 2" WIDE, 20 GAUGE CONTINUOUS SHEET METAL FLASHING; FASTENED TO STANDING SEAM METAL ROOFING PANELS.

A7.0 DETAIL
3" = 1'-0"



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APPR: DATE:

MARK: REVISION:

GENERAL NOTES:

ALL METHODS AND INSTALLATIONS TO CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE, CITY OF TACOMA, AND WASHINGTON LABOR AND INDUSTRIES.

FALL RESTRAINT ANCHORS: 12" HIGH POST WITH 16"X16" BASE PLATE WITH SCREWS, REFER TO THE SPECIFICATIONS.

WOOD: DOUGLAS FIR SELECT-STRUCTURAL GRADE DRY KILN SAWN LUMBER OR 1.8E SCL (STRUCTURAL COMPOSITE LUMBER). IN-PLACE MOISTURE CONTENT UNDER 15%.

PLYWOOD: APA RATED STRUCT 1 32/16 CD VENEER SHEATHING FOR REPLACEMENT PANELS. EXISTING SHEATHING PANELS REMOVED SHALL NOT BE REUSED.

METAL CONNECTORS: SIMPSON STRONG TIE OR APPROVED WITH ICC CERTIFICATION. INSTALL THE LARGEST SIZE FASTENER IN ALL HOLES PER THE PRODUCT SCHEDULE.

NAILS: HOT DIPPED GALVANIZED NAILS. PROVIDE LEAD HOLES AS REQUIRED TO AVOID WOOD SEPARATION OR SPLITTING.

SCREWS: GALVANIZED OR FUSION COATED STEEL SCREW AS DESIGNATED. PROVIDE LEAD HOLES PER THE MANUFACTURE OR AS REQUIRED TO AVOID WOOD SEPARATION OR SPLITTING.

CALCULATIONS FOR WOOD TRUSS APPLICATION:

ULTIMATE FORCE: 5000 LBS

ALLOWABLE STRESS DESIGN FORCE: 2500 LBS WITH WOOD F.S. OF 2.0

NDS LOAD DURATION: 2 FOR IMPACT

NET ASD DESIGN FORCE INCLUDING IMPACT DURATION: 1250 LBS

TRUSS 2x6 TOP CHORD:

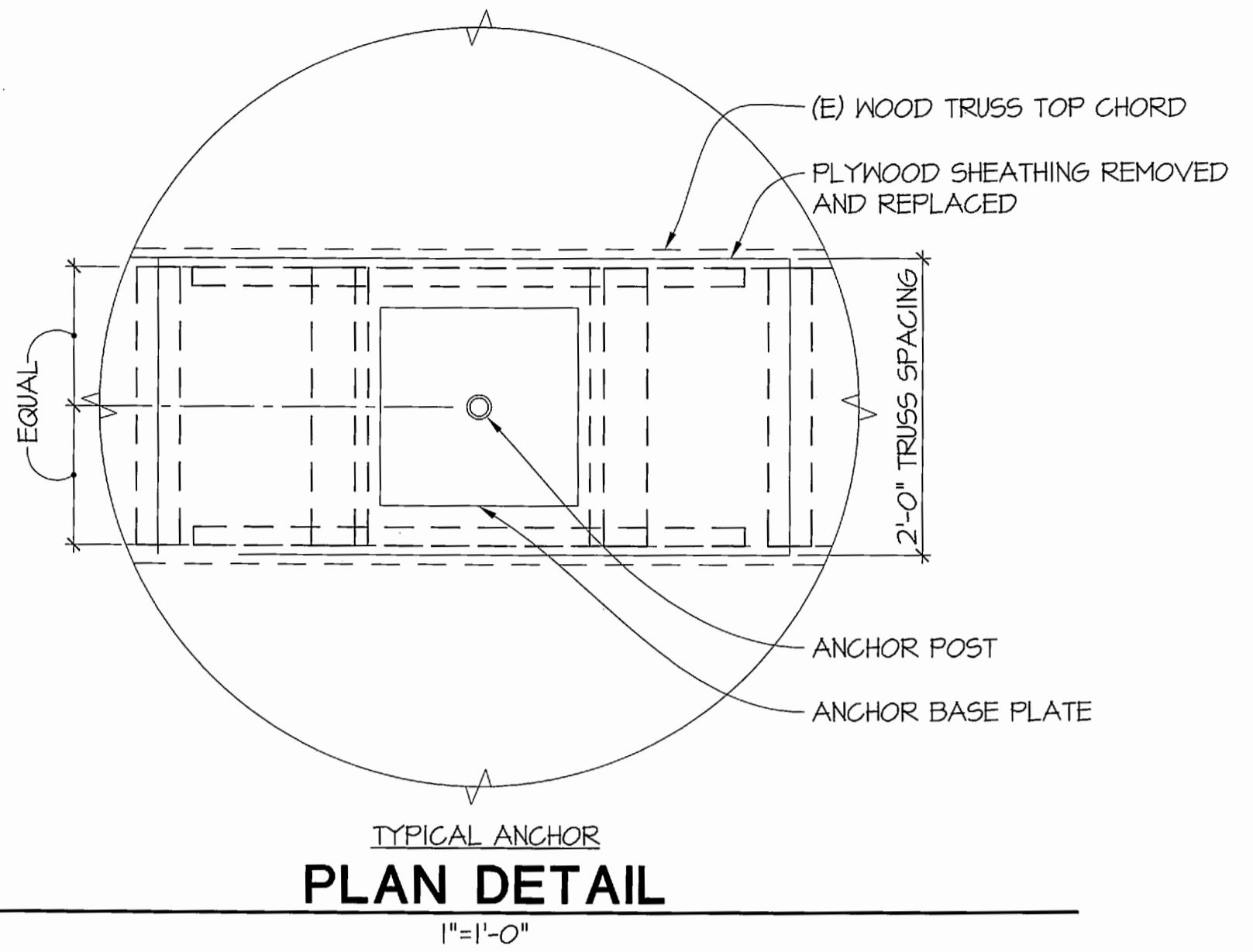
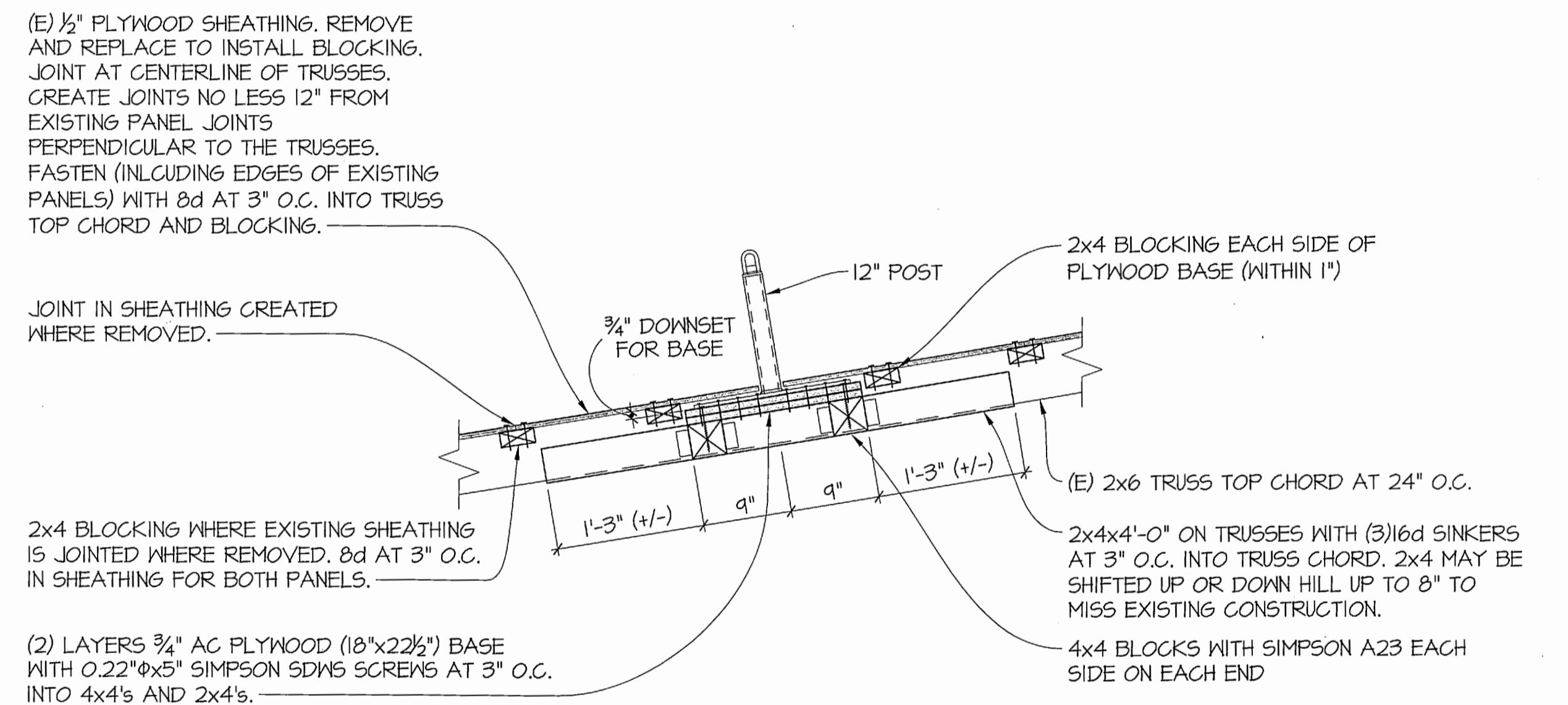
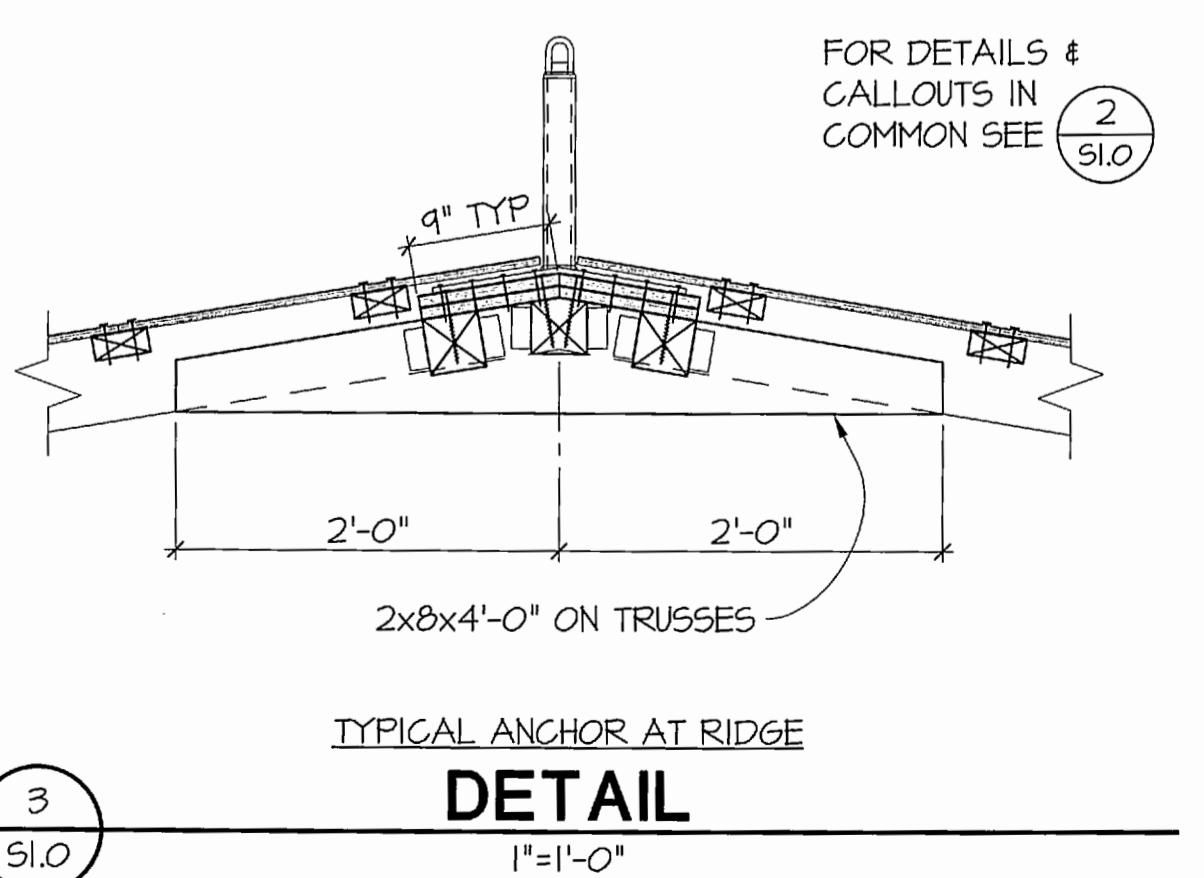
$P = 1250 \text{ LBS (0.5)} = 625 \text{ LBS (LOAD SHARED BY 2 TRUSS)}$
OVERTURNING COUPLING REACTIONS = 625 LBS +/-

$M = 625 \text{ LBS (1.0 FT)} (0.5) = 313 \text{ FT-LBS}$

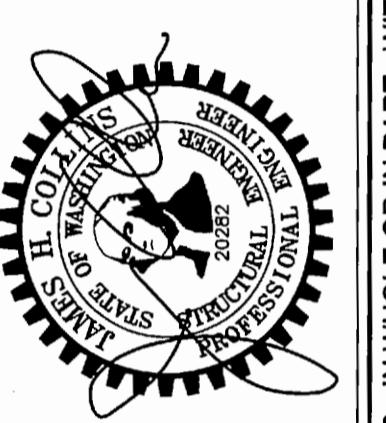
$f_b = 495 \text{ PSI (PLUS DEAD LOAD STRESSES)}$

$V = 625 \text{ LBS}$

$f_v = 114 \text{ PSI (PLUS DEAD LOAD STRESSES)}$

TYPICAL ANCHOR
PLAN DETAILTYPICAL ANCHOR ON ROOF SLOPE
DETAILTYPICAL ANCHOR AT RIDGE
DETAIL

 Structural Solutions		Port of Tacoma	
		811 First Avenue, Suite 620 Tacoma, Washington 98401 Phone: 253.275.7070 Fax: 253.275.7071 e-mail: 253.383.2707	P.O. Box 837 Tacoma, WA 98401-0837 APPR: DATE:
MARK:	REVISION:	BY:	
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S1.0 8 OF 8		TOTE MARINE TOWER ROOF REPLACEMENT DETAILS	
		TOWNSHIP: 21 RANGE: 03 SECTION: 35 DAT-MRZ: WAB3-SF VERT: MILW 19.39' @ Tide 22.1933 PARCEL:	APPROVED: <i>[Signature]</i> 7/14/16 PCS CHECKED BY DATE DIRECTOR ENG. DATE: PROJ. ENGR. DATE PRINTED BY: MCS PORT ADDRESS:
CONT/CONS: M. ID: DRAWING SCALE: 1"=1'-0"			
PHASE: BID SET			

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