

PORT OF TACOMA FILE: PROJECT: 016-066 Plot Date: 6/10/2016 7:15:58 AM C:\Users\JeffB\Desktop\REVIT PROJECTS JEFFB\016-066 POT TOTE Roof Replacement\016-066-BIM\6-A-JEFFB.rvt BINDING EDGE

PORT OF TACOMA

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

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RICHARD P. MARZANO
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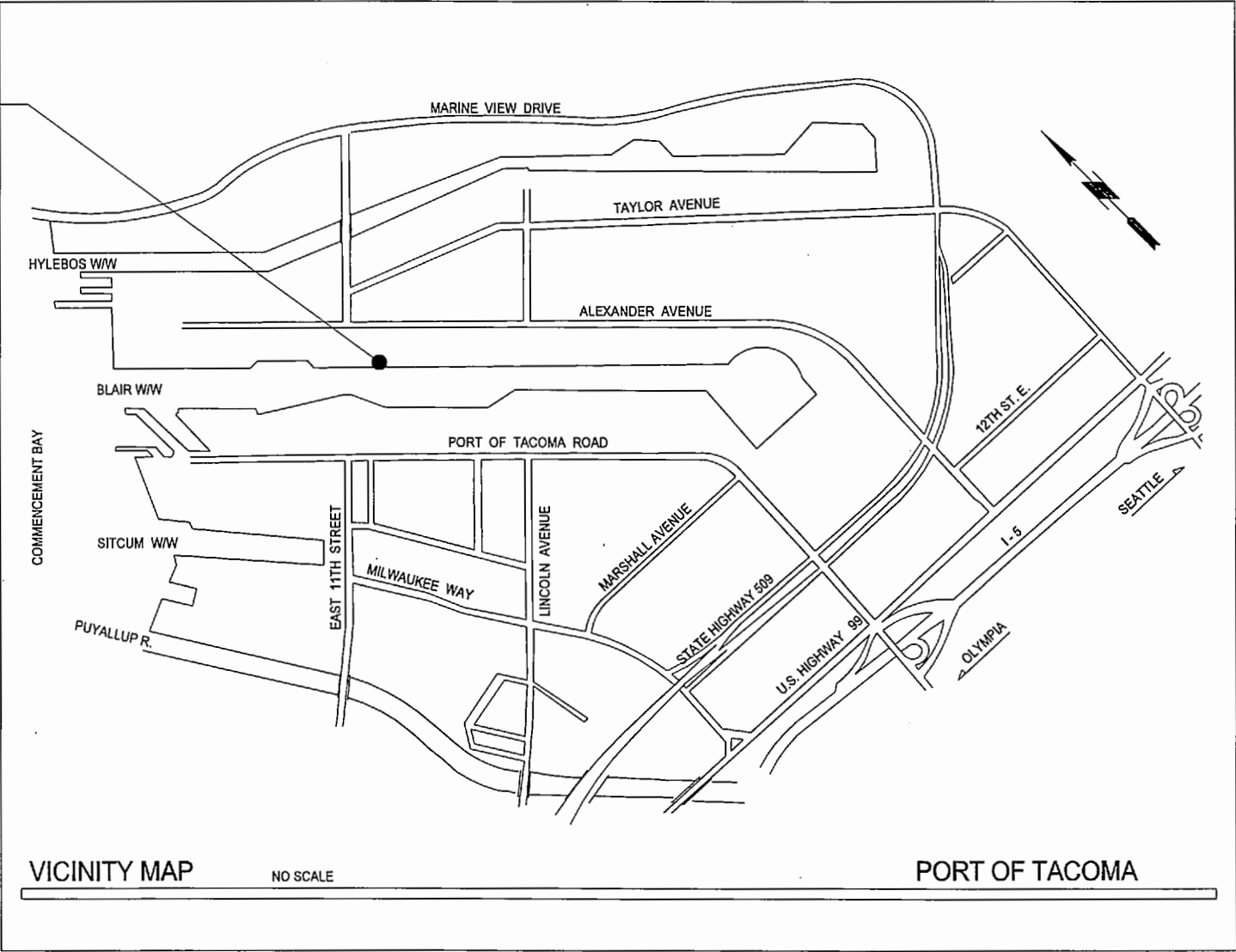
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Chief Executive Officer

DAKOTA CHAMBERLAIN
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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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APPROVED:
DIRECTOR: ENG. DATE: 7-14-16
PRINTED BY: BLACHOWSKI
PORT ADDRESS: TACOMA, WA

HDG 06.20.16
CHECKED BY DATE

TOTE MARINE TOWER
ROOF REPLACEMENT
COVER SHEET

6660
G1.0
1 OF 8

CONTR/CONS: TOWNSHIP: 21 RANGE: 03 SECTION: 35
M. ID: DAT-HRZ: WA83-SF VERT: MLW 19.39' @ Tide 22 1933
PHASE: BID SET 06.20.16 PARCEL: DRAWING SCALE:

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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

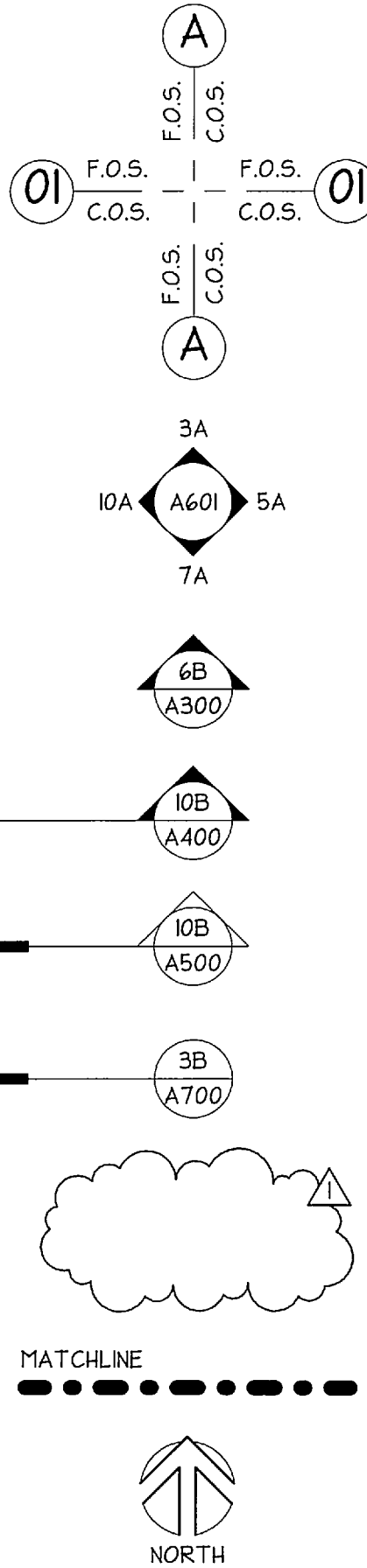
WALL SECTION
SECTION LETTER
SHEET NUMBER

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 #1, 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
TABLE 602
0 HR
0 HR
0 HR
0 HR

OCCUPANT LOAD

IBC TABLE 1004.1.2

FIRST FLOOR LEVEL
SECOND FLOOR LEVEL
CONTROL TOWER LEVEL

21 OCCUPANTS [1]
27 OCCUPANTS [1] [2]
2 OCCUPANTS [2]

TOTAL

50 OCCUPANTS

[1] 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 DETERRENCE 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.

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
866 SQ FT
157 SQ FT

TOTAL

2,028 SQ FT

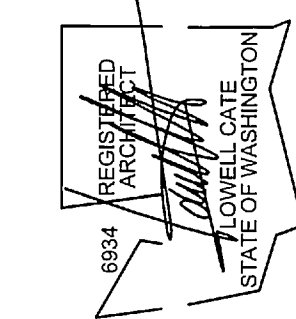
6560
G2.0
2 OF 8

TOTE MARINE TOWER
ROOF REPLACEMENT
PROJECT INFORMATION AND GENERAL NOTES

TOWNSHIP: 21 RANGE: 03 SECTION: 35
DATE-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22.1933
PARCEL: DRAWING SCALE: As Indicated

APPROVED: *Jeffrey B. Blachowski*
7-14-16
DIRECTOR, ENG. DATE: 7-14-16
PRINTED BY: BLACHOWSKI
PORT ADDRESS: TACOMA, WASHINGTON

HDC 06.20.16
CHECKED BY DATE



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MARK: REVISION: BY: DATE: APPR:

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STANDARD ABBREVIATIONS LIST

ABB	ABBREVIATION	F.E.I.C.	FURNISHED BY ENGINEER INSTALLED BY CONTRACTOR	P.T.	PRESSURE TREATED
A.F.F.	ABOVE FINISH FLOOR	(F)	FUTURE	PS	PROJECTION SCREEN
AP	ACCORDIAN PARTITION	GALV	GALVANIZED	QTY	QUANTITY
ACT	ACOUSTICAL CEILING TILE	GA	GAUGE	QT	QUARRY TILE
AMF	ACOUSTICAL WALL FABRIC	GEN	GENERAL	R	RADIUS
ADD'L	ADDITIONAL	GC	GENERAL CONTRACTOR	REF	REFRIGERATOR
ADJ	ADJUSTABLE	GL	GLASS	REINF	REINFORCED
ALUM	ALUMINUM	GFRG	GLASS FIBER REINFORCED GYPSUM	RLT	RELITE
ACH	ALUMINUM COMPOSITE MATERIAL WALL PANEL	GLB	GLUE LAMINATE BEAM	(R)	RELOCATE
ADA	AMERICANS WITH DIABILITIES ACT	G.F.C.I.	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	(r)	REMOVABLE
A.B.	ANCHOR BOLT	G.F.G.I.	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	REQD	REQUIRED
ACP	ARCHITECTURAL CONCRETE PAVER	GB	GRAB BAR	R.O.W.	RIGHT OF WAY
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	GNT	GRANITE TILE	R.	RISER
AMP	ARCHITECTURAL WALL PANEL	GSF	GROSS SQUARE FOOTAGE	RCD	ROLLING COUNTER DOOR
AS	ASPHALT SHINGLES	GT	GROUT	RSD	ROLLING SERVICE DOOR
ASMB	ASSEMBLY	GYP	GYPSUM	R.D.	ROOF DRAIN
@	AT	G.A.	GYPSUM ASSOCIATION	RL	ROOF LEADER
BB	BACKERBOARD	GMB	GYPSUM WALL BOARD	RTU	ROOF TOP UNIT
BM	BEAM	H.D.	HAND DRYER	R.O.	ROUGH OPENING
BRG	BEARING	H.C.	HANDICAPPED	RB	RUBBER BASE
BTWN	BETWEEN	HDW	HARDWARE	RF	RUBBER FLOORING
BN	BIRD NETTING	HWD	HARDWOOD	SG	SAFETY GLASS
BLKG	BLOCKING	HDR	HEADER	(S)	SALVAGE
BD	BOARD	HT	HEIGHT	SCH	SCHEDULE
B	BOLLARD	HC	HOLLOW CORE	SLR	SEALER
BOT	BOTTOM	HM	HOLLOW METAL	SD	SECTIONAL DOORS
B.O.F.	BOTTOM OF FOOTING	HK	HOOK	SGS	SECURITY GRILLE SYSTEM
BRK	BRICK MASONRY UNIT	HOR	HORIZONTAL	SJ	SEISMIC JOINT
BLDG	BUILDING	HLB	HORIZONTAL LOUVER BLINDS	SHTG	SHEATHING
CAB	CABINET	HMS	HORIZONTAL METAL SIDING	SHT	SHEET
CPT	CARPET	HB	HOSE BIB	SHC	SHOWER CURTAIN
CLG	CEILING	HR	HOUR	SCR	SHOWER CURTAIN ROD
CBB	CEMENTITIOUS BACKER BOARD	IRGMB	IMPACT RESISTANT GYPSUM WALL BOARD	SDG	SIDING
C.O.S.	CENTER OF STRUCTURE	ID.	INSIDE DIAMETER	SM	SIMILAR
¢	CENTERLINE	INT	INTERIOR	SPMR	SINGLE-PLY MEMBRANE ROOFING
CER	CERAMIC	JAN	JANITOR	SL5	SKYLIGHT SYSTEM
CT	CERAMIC TILE	JT	JOINT	S.O.G.	SLAB ON GRADE
CHRL	CHAIR RAIL	JST	JOIST	SAE	SLIDING AUTOMATIC ENTRANCE
CB	CHALKBOARD	LAM	LAMINATE	SD	SOAP DISPENSER
CLR	CLEAR	LG	LAMINATED GLASS	SH	SOAP HOLDER
CLK	CLINKER TILE	LAV	LAVATORY	SC	SOLID CORE
COL	COLUMN	LP	LIGHT POLE	SSM	SOLID SURFACE MATERIAL
C	COMPACT	LN	LINOLEUM	S	SOUND
CONC	CONCRETE	LVR	LOUVER	SPGL	SPANDREL GLASS
CMU	CONCRETE MASONRY UNIT	LBR	LUMBER	SPEC	SPECIFICATIONS
CONST	CONSTRUCTION	MMV	MANUFACTURED MASONRY VENEER	SQ	SQUARE
CONT	CONTINUOUS	MFR	MANUFACTURER	SF	SQUARE FOOT
C.I.	CONTINUOUS INSULATION	MB	MARKERBOARD	STN	STAIN
C.J.	CONTROL JOINT	MAS	MASONRY	SS	STAINLESS STEEL
COORD	COORDINATE	MV	MASONRY VENEER	STD	STANDARD
CG	CORNER GUARD	MAX	MAXIMUM	SSMR	STANDING SEAM METAL ROOFING
CV	COVER	MECH	MECHANICAL	SDT	STATIC DISSIPATED TILE
CU	CUBIC	MES	MECHANICAL EQUIPMENT SCREEN	STL	STEEL
CMS	CURTAIN WALL SYSTEM	MEP	MECHANICAL, ELECTRICAL, PLUMBING	ST	STONE
DML	DECORATIVE METAL LAMINATE	MC	MEDICINE CABINET	SMU	STONE MASONRY UNIT
(D)	DEMOLISH / DEMOLITION	MDF	MEDIUM DENSITY FIBERBOARD	SFS	STOREFRONT SYSTEM
D	DEPTH	MTL	METAL	TWF	TACKABLE WALL FABRIC
DTL	DETAIL	MCP	METAL CEILING PANELS	TB	TACKBOARD
DIA	DIAMETER	MF	METAL FABRICATIONS	TEMP	TEMPORARY
DW	DISHWASHER	MRS	METAL RAILING SYSTEM	TJ	TENANT IMPROVEMENT
DR	DOOR	MRP	METAL ROOFING PANEL	THML	THERMAL
DBL	DOUBLE	MSP	METAL SOFFIT PANEL	THK	THICK
DN	DOWN	MSS	METAL STAIR SYSTEM	TL	TILE
D.S.	DOWNSPOUT	MWP	METAL WALL PANEL	TBB	TILE BACKERBOARD
DFT	DRAFTING	MIN	MINIMUM	TCP	TILT-UP CONCRETE PANEL
D.F.	DRINKING FOUNTAIN	MIN.	MINUTE	TC	TOILET COMPARTMENTS
EA	EACH	MIR	MIRROR	T&G	TONGUE AND GROOVE
ELECT	ELECTRICAL	MISC	MISCELLANEOUS	T.O.	TOP OF
E.P.	ELECTRICAL PANEL	MR	MOISTURE RESISTANT	T.O.B.	TOP OF BEARING
EL	ELEVATION	M-R	MOLD RESISTANT	T.O.F.	TOP OF FLOOR
ELEV	ELEVATOR	M	MORTAR	T.O.W.	TOP OF WALL
ENV	ENVELOPE	MT	MOSAIC TILE	T.B.	TOWEL BAR
EF	EPOXY FLOORING	NSM	NATURAL STONE MATERIAL	TFR	TRANSFORMER
EQ	EQUAL	NOM	NOMINAL	T	TREAD
EQUIP	EQUIPMENT	N/A	NOT APPLICABLE	TRTD	TREATED
E.F.	EXHAUST FAN	N.I.C.	NOT IN CONTRACT	TS	TUBE STEEL
(E)	EXISTING	N.T.S.	NOT TO SCALE	TYP	TYPICAL
EPS	EXPANDED POLYSTYRENE RIGID INSULATION	NTS	NOTES	UNFN	UNFINISHED
EXP	EXPANSION	NO.	NUMBER	UN.O.	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	O.C.	ON CENTER	VB	VAPOR BARRIER
EXT	EXTERIOR	OPNG	OPENING	VERT	VERTICAL
EFS	EXTERIOR INSULATION FINISH SYSTEM	OPP	OPPOSITE	VMS	VERTICAL METAL SIDING
XPS	EXTRUDED POLYSTYRENE RIGID INSULATION	OSB	ORIENTED STRAND BOARD	WAIN	WAINSCOT
F.O.S.	FACE OF STRUCTURE	OZ	OUNCE	WOM	WALK OFF MAT
FF	FACTORY FINISH	O.D.	OUTSIDE DIAMETER	WC	WALL COVERING
FRC	FIBER REINFORCED CEMENTITIOUS PANEL	O.R.D.	OVERFLOW ROOF DRAIN	WSEC	WASHINGTON STATE ENERGY CODE
FRL	FIBER REINFORCED LAMINATE	O.R.L.	OVERFLOW ROOF LEADER	WC.	WATER CLOSET
FRP	FIBER REINFORCED PANEL	O.S.	OVERFLOW SCUPPER	WH	WATER HEATER
FIG	FIGURE	O.H.	OVERHEAD	WRGMB	WATER RESISTANT GYPSUM WALLBOARD
FIN	FINISH	PT	PAINT	WRB	WEATHER RESISTIVE BARRIER
F.E.	FIRE EXTINGUISHER	PERP	PERPENDICULAR	WT	WEIGHT
F.H.	FIRE HYDRANT	PSC	PLASTER SKIM COAT OVER CONCRETE	W.W.F.	WELDED WIRE FABRIC
FRSG	FIRE RATED SAFETY GLASS	PLAM	PLASTIC LAMINATE	WB	WHITEBOARD
FRT	FIRE-RETARDANT TREATED	PLY	PLYWOOD	W	WIDTH
FP	FIREPROOFING	ISO	POLYISOCYANURATE RIGID INSULATION	WIN	WINDOW
F.P.	FLAG POLE	PFT	PORCELAIN FLOOR TILE	WWS	WINDOW WALL SYSTEM
FLR	FLOOR	PCS	PORCELAN FLOOR TILE	WG	WIRE GLASS
F.D.	FLOOR DRAIN	PSF	POUND PER SQUARE FOOT	W/	WITH
FT	FOOT / FEET	LBS	POUNDS (WEIGHT)	W/O	WITHOUT
FTG	FOOTING	P.A.F.	POWER ACCUATED FASTNER	WD	WOOD
FDN	FOUNDATION	PP	POWER POLE	WF	WOOD FLOORING
FRMG	FRAMING	PAC	PRECAST ARCHITECTURAL CONCRETE	WS	WOOD SIDING
FH	FULL HEIGHT	PCSU	PRECAST CONCRETE SOLID UNIT	WP	WORK POINT
F.I.C.	FURNISHED AND INSTALLED BY CONTRACTOR	PSMU	PRECAST STONE MASONRY UNIT		
F.I.E.	FURNISHED AND INSTALLED BY ENGINEER				

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, DOWNPOUTS, 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	PANT	SHERWIN-WILLIAMS	COLOR: SW 7052. GRAY AREA.	REFER TO EXTERIOR ELEVATIONS.
PT-2	PANT	SHERWIN-WILLIAMS	COLOR: SW 7020. BLACK FOX.	REFER TO EXTERIOR ELEVATIONS.
PT-3	PANT	SHERWIN-WILLIAMS	COLOR: SW 6258. TRICORN BLACK.	REFER TO EXTERIOR ELEVATIONS.

COLORS AND MATERIALS NOTES

1. NOT USED.

FOOTNOTES:

[[COLOR: MATCH EXISTING BUILDING MATERIAL COLOR.

BUILDING ASSEMBLY LEGEND

ROOFS	<div><div>ASSEMBLY</div><div>MATERIALS</div><div></div><div>FINISH PER SCHEDULE STANDING SEAM METAL ROOFING ROVIN PAPER (SLIP SHEET) * MEMBRANE UNDERLAYMENT (HIGH-TEMP) [2] PLYWOOD SHEATHING (E) [1] [3] MANUFACTURED WOOD TRUSSES @ 24" O.C. (E) ATTIC SPACE (E) THERMAL BATT INSULATION (E) MATERIAL AND FINISH (E) * INSTALL (2) LAYERS OF ROSIN PAPER.</div></div>	<div><div>ASSEMBLY</div><div>MATERIALS</div><div></div><div>ROOF ASSEMBLY * PLYWOOD SHEATHING (E) [1] [3] 2x6 WOOD FRAMING @ 24" O.C. (E) ** STAINLESS STEEL MESH (INSECT SCREEN) *** METAL SOFFIT PANELS (PERFORATED) FINISH PER SCHEDULE * REFER TO ROOF ASSEMBLY FOR MATERIAL AND COMPONENTS. ** INSTALL 2x4 SOLID WOOD BLOCKING BETWEEN EXISTING WOOD FRAMING MEMBERS AT BOTH ENDS OF METAL SOFFIT PANELS. *** INSTALL INSECT SCREEN CONTINUOUS WITHOUT GAPS OVER WOOD FRAMING PRIOR TO INSTALL OF METAL SOFFIT PANELS.</div></div>
	<div><div>ASSEMBLY</div><div>MATERIALS</div><div></div><div>FINISH PER SCHEDULE STANDING SEAM METAL ROOFING ROVIN PAPER (SLIP SHEET) * MEMBRANE UNDERLAYMENT (HIGH-TEMP) [2] PLYWOOD SHEATHING (E) [1] [3] 2x6 WOOD JOISTS @ 16" O.C. (E) AIR SPACE (E) SOFFIT ASSEMBLY ** * INSTALL (2) LAYERS OF ROSIN PAPER. ** REFER TO SOFFIT ASSEMBLY FOR MATERIALS AND COMPONENTS.</div></div>	

BUILDING ASSEMBLY NOTES

- REFER TO ROOF PLAN AND EXTERIOR ELEVATIONS FOR ROOF ASSEMBLY LOCATIONS.
- EXTERIOR FINISHES: REFER TO EXTERIOR FINISH SCHEDULE.
- REFER TO REFLECTED CEILING PLAN AND EXTERIOR ELEVATIONS FOR SOFFIT ASSEMBLY LOCATIONS.

FOOTNOTES:

- [1] EXTERIOR PLYWOOD SHEATHING: REFER TO SPECIFICATION SECTION 06 10 00.
- [2] MEMBRANE UNDERLAYMENT (HIGH-TEMP): REFER TO SPECIFICATION SECTION 07 01 13.
- [3] INSPECT CONDITION OF EXISTING ROOF SURFACE AFTER COMPLETION OF ROOFING DEMOLITION WORK. NOTIFY ENGINEER IF WATER DAMAGED MATERIALS ARE DISCOVERED DURING INSPECTION OF ROOF SURFACE.

6560

G3.0

3 OF 8

CONTRACTOR: TOTE MARINE TOWER ROOF REPLACEMENT

GENERAL NOTES

TOWNSHIP: 21 RANGE: 03 SECTION: 35

M. ID: DAT-HRZ: WA83-SF

PARCEL: SET 06.20.16

APPROVED:

7-14-16

DIRECTOR: ENG. DATE: 7-14-16

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design group

MARK:

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BY:

DATE:

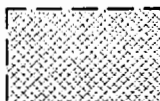
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JEFFB

016-066


DEMOLITION ROOFING MATERIALS

demolition of existing
standing seam metal
roofing system including
related metal trim and
flashing



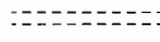
DEMOLITION METAL GUTTER

demolition of existing
metal gutter and
related components



DEMOLITION DOWNSPOUT

demolition of existing
metal downspout
including support
brackets




D.S. (D)

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 WOOD 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 WIRING FROM ROOF TRIM WIRING AND REMOVE TO ALLOW FOR ROOFING REPLACEMENT AND SOFFIT REPLACEMENT.
D06	COIL UP EXISTING WIRING FROM REMOVED ELECTRICAL DEVICES, PROVIDE TEMPORARY SUPPORT AND PROTECT FROM DAMAGE. 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.

DEMOLITION METAL SOFFIT LINER PANEL

demolition of existing metal soffit liner panel including related metal trim, closures, flashings and screened vents



1. THESE PLANS DELINEATE 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 RESPONSIBLE WITH EXISTING CONDITIONS THEREON. ALL BIDDERS ARE ENCOURAGED TO PERFORM A WALK THROUGH PRIOR TO BIDDING.
2. COORDINATION OF THESE DRAWINGS WITH THE REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DISCREPANCIES BETWEEN AND / OR WITHIN CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. CONTRACTOR SHALL PROVIDE PROTECTION OF MATERIALS, EQUIPMENT AND FINISHES WHICH ARE TO REMAIN OR NOTED TO BE SALVAGED AND / OR RE-USED. DAMAGES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO ENGINEER.
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.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURELY STORING ALL ITEMS IDENTIFIED TO BE CAREFULLY REMOVED, SALVAGED AND REINSTALLED.
6. CONTRACTOR TO BE RESPONSIBLE FOR CUT AND PATCH AS REQUIRED TO ACCOMMODATE CONSTRUCTION; INCLUDING ALL MECHANICAL AND ELECTRICAL WORK.
7. STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL TEMPORARY SHORING SUPPORT IS PART OF THIS CONTRACT.
8. DEMOLITION WORK TO ACCOMMODATE ROOFING AND SOFFIT REPLACEMENT WORK HAS BEEN CONCEPTUALLY SHOWN FOR MECHANICAL WORK ITEMS. CUTTING, WELDING, 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.
9. CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL AND MECHANICAL EQUIPMENT IS DISCONNECTED FROM BUILDING SERVICES. ALERT ENGINEER OF ANY NON OPERATIONAL EQUIPMENT.
10. TURN OFF POWER AND COMMUNICATION SIGNAL TO ALL EQUIPMENT PRIOR TO DISCONNECTING FROM WIRING TO PREVENT DAMAGING EQUIPMENT.

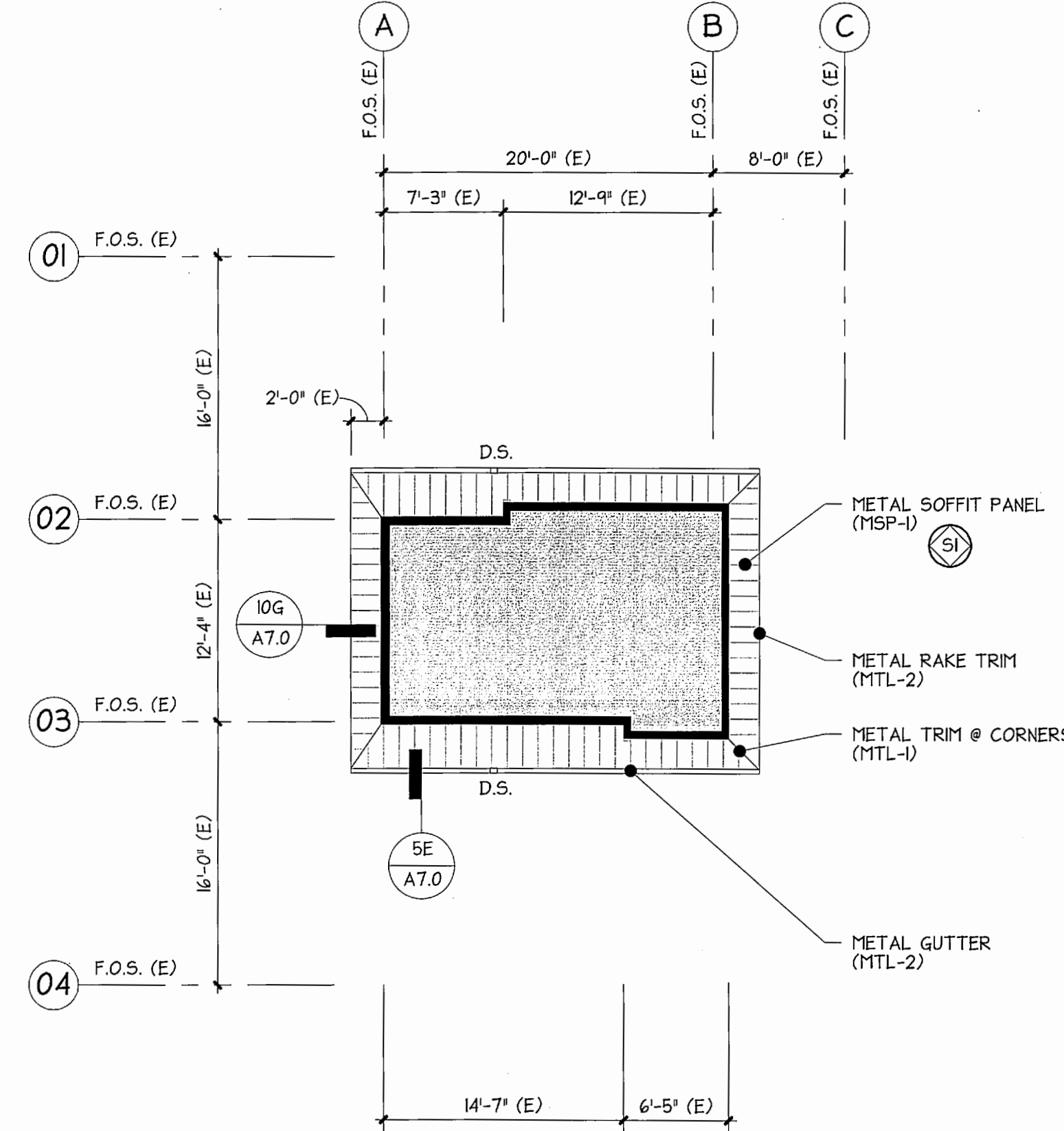


ROOF PLAN LEGEND

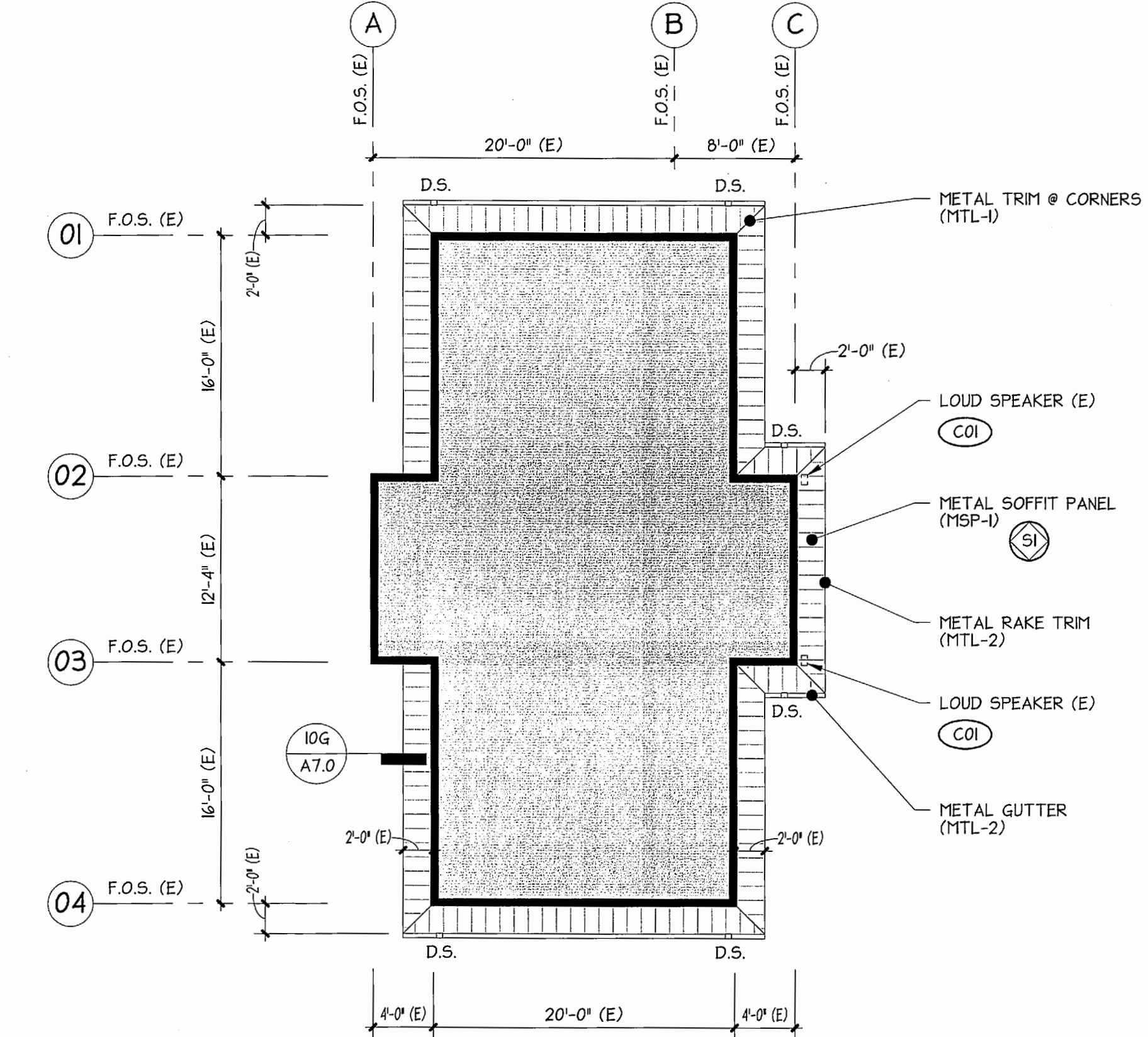
DESCRIPTION	SYMBOL AND TEXT
ROOFING IDENTIFICATION	
material type	STANDING SEAM METAL ROOFING
ROOF RIDGE	ridge line
ROOF PLANE CHANGE	description, change in sloped roof planes
ROOF CRICKET	sloped (cricket) roof plane
SLOPE IDENTIFICATION	direction indicator, rise/run
EXHAUST FAN	exhaust fan set on built-up curb with flashing
FALL PROTECTION ANCHOR	steel fall protection anchor
type 1 = fpa-1	FPA-1
type 2 = fpa-2	
DOWNSPOUT	metal downspout including support brackets
ASSEMBLY TYPES	W = wall type R = roof type S = soffit type F = floor type
BIRD DETERRENT SYSTEM	bird deterrent system installed at roof edge conditions, equipment and vents

ROOF PLAN NOTES

SYMBOL	NOTE
(R01)	INSTALL BIRD DETERRENCE SYSTEM CONTINUOUS ALONG ROOF EDGES (RAKES AND EAVES), ROOF RIDGES, WALL TO ROOF TRANSITIONS AND EXHAUST FAN AND ROOF VENTS.
(R02)	PROVIDE EXHAUST FAN AT LOCATION OF REMOVED EXHAUST FAN. INSTALL 2' HT BUILT-UP WOOD CURB, METAL CURB FLASHINGS AND ROOF CRICKET FOR THE EXHAUST FAN. EXHAUST FAN SHALL BE COOK MODEL: ACED-90-DEC. SPECIFICATIONS: 200 CFM, 0.38", 1/4 HP, 1240 RPM, 35 LBS MAXIMUM HEIGHT; EC MOTOR WITH MANUAL SPEED CONTROL, BACKDRAFT DAMPER, CONNECT FAN TO EXISTING DUCTWORK, POWER AND CONTROLS. PROVIDE DUCT TRANSITION AS NECESSARY TO MAKE CONNECTION.
(R03)	INSTALL VENT PIPE BOOT FLASHING ASSEMBLY.
(R04)	REINSTALL EXISTING ANTENNA AND SUPPORT BASE ABOVE ROOF. USE STAINLESS STEEL FASTENERS AND NEOPRENE WASHERS. SEAL ROOF PENETRATIONS WATER-TIGHT.
(R05)	FALL PROTECTION ANCHOR (FPA-1): REFER TO STRUCTURAL GENERAL NOTES AND DETAILS ON SHEET S10. CUT AND PATCH EXISTING PLYWOOD SHEATHING FOR INSTALLATION OF WOOD FRAMING. REFER TO DETAILS 1/S10 AND 3/S10.
(R06)	FALL PROTECTION ANCHOR (FPA-2): REFER TO STRUCTURAL GENERAL NOTES AND DETAILS ON SHEET S10. CUT AND PATCH EXISTING PLYWOOD SHEATHING FOR INSTALLATION OF WOOD FRAMING. REFER TO DETAILS 1/S10 AND 2/S10.



5C CONTROL TOWER LEVEL - REFLECTED CEILING PLAN
1/8" = 1'-0"



5G SECOND FLOOR LEVEL - REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES

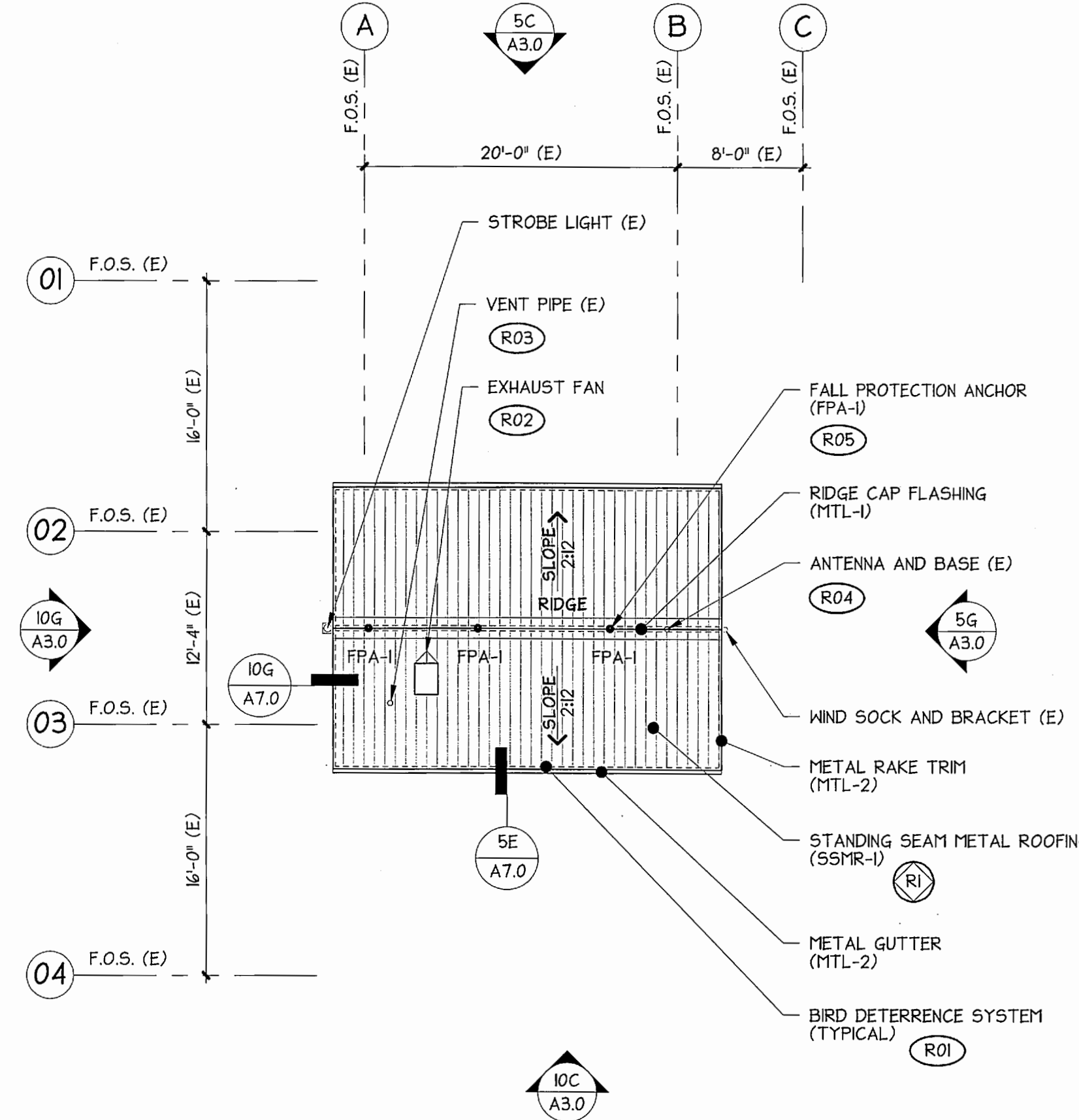
NOTE
1. ABBREVIATIONS: (D) - DEMOLITION (R) - RELOCATE (E) - EXISTING TO REMAIN (S) - SALVAGE REFER TO SHEET G3.0 FOR STANDARD ABBREVIATIONS LIST.
2. PROVIDE BUILT-UP RAISED CURB FOR ROOF MOUNTED EXHAUST FAN.
3. MAINTAIN A MINIMUM OF 1/4" SLOPE AT ROOF CRICKETS.
4. NOTIFY ENGINEER IF WATER-DAMAGED MATERIALS ARE DISCOVERED DURING INSPECTION OF ROOF DECK.

CEILING LEGEND

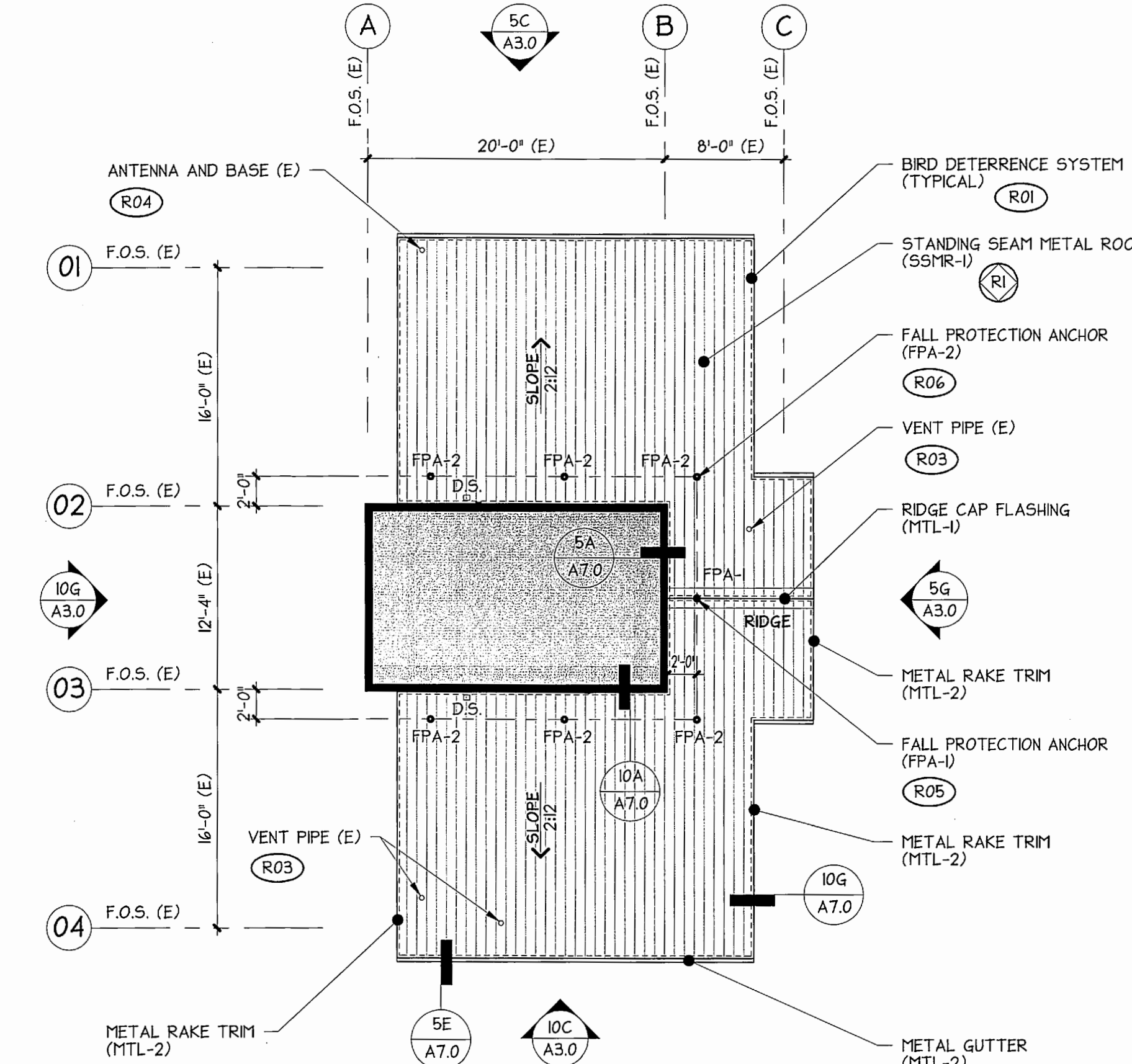
DESCRIPTION	SYMBOL AND TEXT
SOFFIT IDENTIFICATION	
material description	MSP-1 SOFFIT (SLOPED)
METAL SOFFIT PANELS	metal soffit panels
EXISTING EXTERIOR WALLS	existing exterior walls to remain
ASSEMBLY TYPES	W = wall type R = roof type S = soffit type F = floor type

CEILING PLAN NOTES

SYMBOL	NOTE
(C01)	REINSTALL EXISTING LOUD SPEAKERS AT UNDERSIDE OF EXTERIOR SOFFITS. INSTALL CONCEALED SOLID 2x WOOD BLOCKING FOR ATTACHMENT.



10C CONTROL TOWER LEVEL - ROOF PLAN
1/8" = 1'-0"



10G SECOND FLOOR LEVEL - ROOF PLAN
1/8" = 1'-0"

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

DESIGNED BY
8854
STATE OF WASHINGTON
LOVELL GATE

APPROVED: *[Signature]*
DATE: 7-14-16
DIRECTOR: ENG. DATE: 7-14-16
PRINTED BY: BLACHOWSKI
PORT ADDRESS: TACOMA, WASHINGTON

HDG 06.20.16
CHECKED BY DATE

6560
A1.0
5 OF 8

CONTRACT/CONS: TOWNSHIP: 21
DATE-HRZ: WA83-SF
PARCEL: 06.20.16

SECTION: 35
Tide 22 1933
VERT: MLW 19.39' @ Tide 22 1933
DRAWING SCALE: 1/8" = 1'-0"

TOTE MARINE TOWER
ROOF REPLACEMENT
PLANS

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GENERAL NOTES

NOTE

1. REFER TO BUILDING ASSEMBLY LEGEND ON SHEET G020 FOR ASSEMBLY TYPES.
2. ABBREVIATIONS:
(D) - DEMOLITION
(R) - RELOCATE
(E) - EXISTING TO REMAIN
(S) - SALVAGE
3. REFER TO SHEET G3.0 FOR STANDARD ABBREVIATIONS LIST.
4. PAINT ALL EXPOSED CONDUITS, PIPES AND MOUNTING BRACKETS AT ROOF AREAS.
5. CONNECT DOWNSPOUTS TO EXISTING STORM DRAIN PIPES AT GRADE.

ELEVATION NOTES

SYMBOL	NOTE
E01	<p>EXISTING PORCH ROOF: REPLACE STANDING SEAM METAL ROOFING MATERIALS; INCLUDING METAL TRIM AND FLASHING; REPLACE METAL GUTTER AND DOWNSPOUT. ROOF ASSEMBLY: R2.</p> <p>EXISTING PORCH SOFFIT: REPLACE METAL SOFFIT PANELS INCLUDING METAL TRIM AND FLASHING. DEMO CONTINUOUS METAL SOFFIT VENT. SOFFIT ASSEMBLY: S1.</p> <p>REFER TO DETAILS 5A/A7.0 FOR SIDEWALL CONDITION AND 10A/A7.0 FOR ENDWALL CONDITION. REFER TO DETAIL 5B/A7.0 FOR EAVE AND GUTTER CONDITIONS.</p>
E02	<p>EXISTING COMMUNICATION PANEL: CAREFULLY REMOVE EXISTING COMMUNICATION PANEL MOUNTED TO EXISTING METAL DOWNSPOUT. RELOCATE PANEL PERMANENTLY ATTACH TO EXISTING EXTERIOR WALL.</p>

STANDING SEAM METAL ROOFING (SSMR)	FACTORY FINISH
METAL SOFFIT PANELS (MSP)	FACTORY FINISH
METAL FLASHING AND TRIM	FACTORY FINISH
METAL GUTTERS AND DOWNSPOUTS	FACTORY FINISH
FALL PROTECTION ANCHORS	FACTORY FINISH
EXHAUST FAN UNIT [U]	PANT
VERTICAL METAL SIDING (E)	EXISTING FINISH TO REMAIN

1. REFER TO EXTERIOR COLORS AND MATERIALS SCHEDULE FOR COLORS AND FINISHES.

2. ABBREVIATIONS:

(E) = EXISTING TO REMAIN

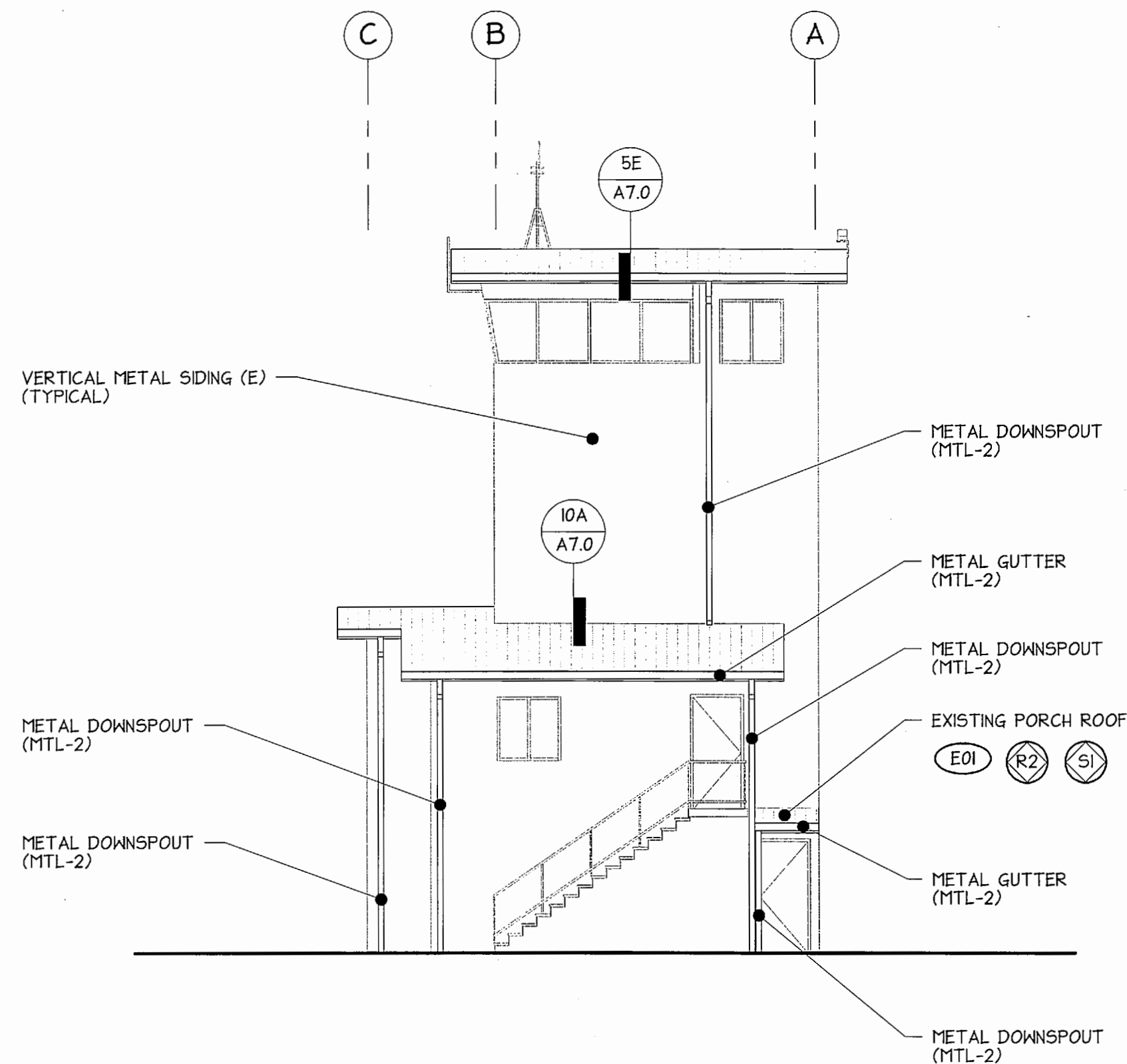
3. GENERAL NOTES:

(1) MISCELLANEOUS ITEMS AT ROOF AREAS; FIELD PAINT ALL EXPOSED METAL; CONDUITS, PIPES, SUPPORT AND MOUNTING BRACKETS. MATCH COLOR OF ADJACENT MATERIAL OR AS SPECIFIED ON DRAWINGS.

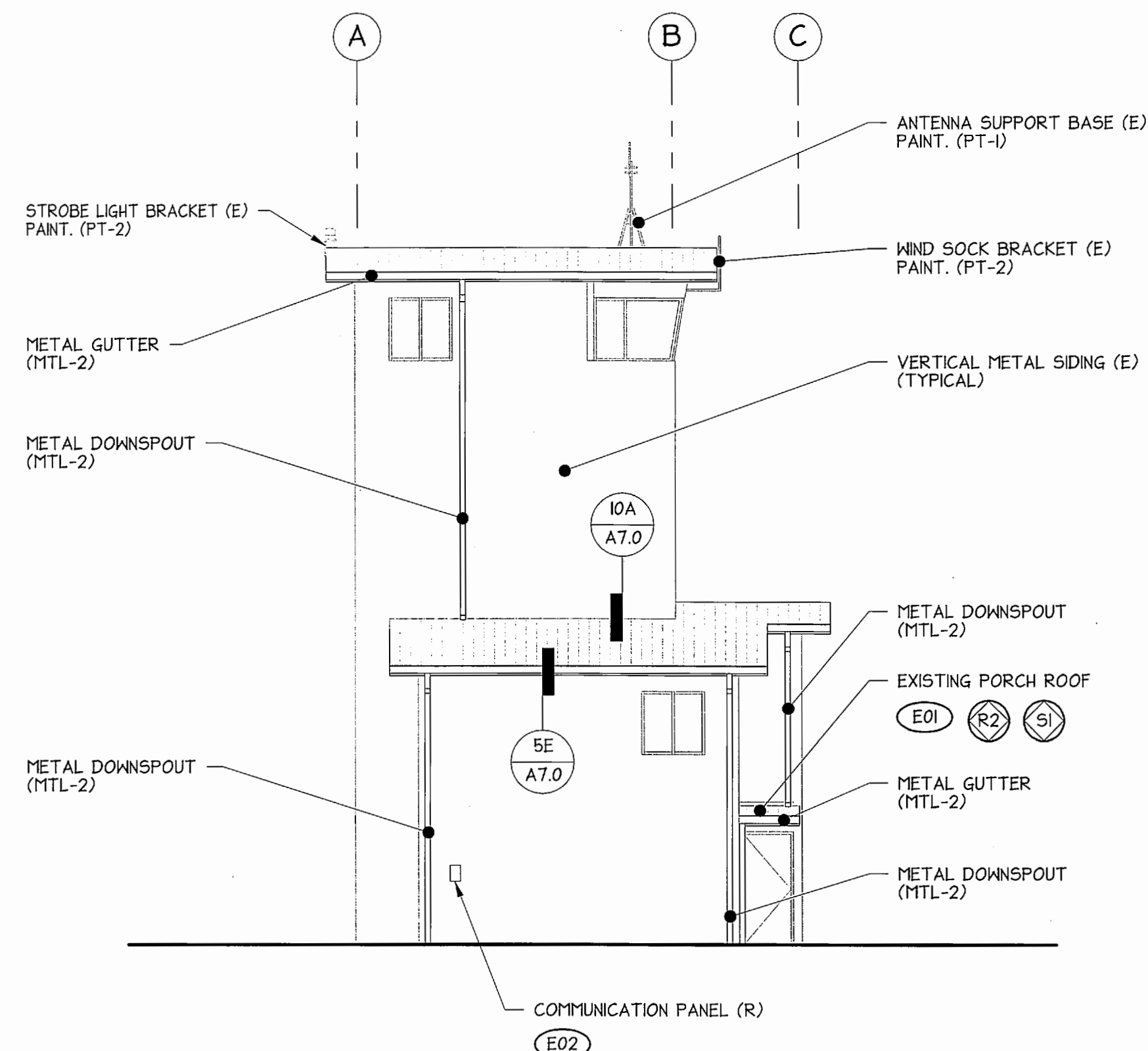
CONTRACTOR OPTION: SHOP-APPLIED FINISH AS SPECIFIED IN SECTION 09 91 00.

4. FOOTNOTES:

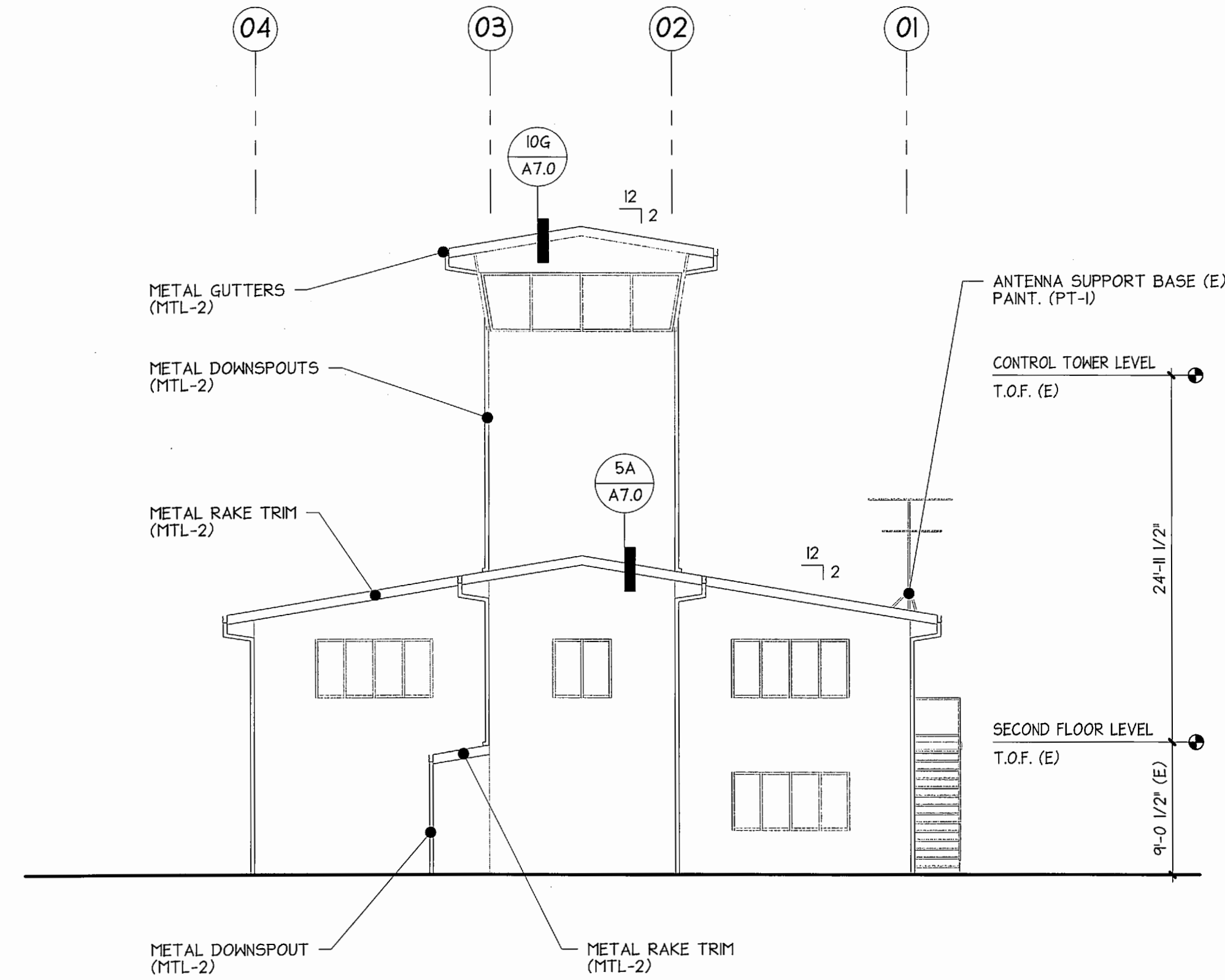
[U] EXHAUST FAN UNIT MOUNTED ON ROOF.



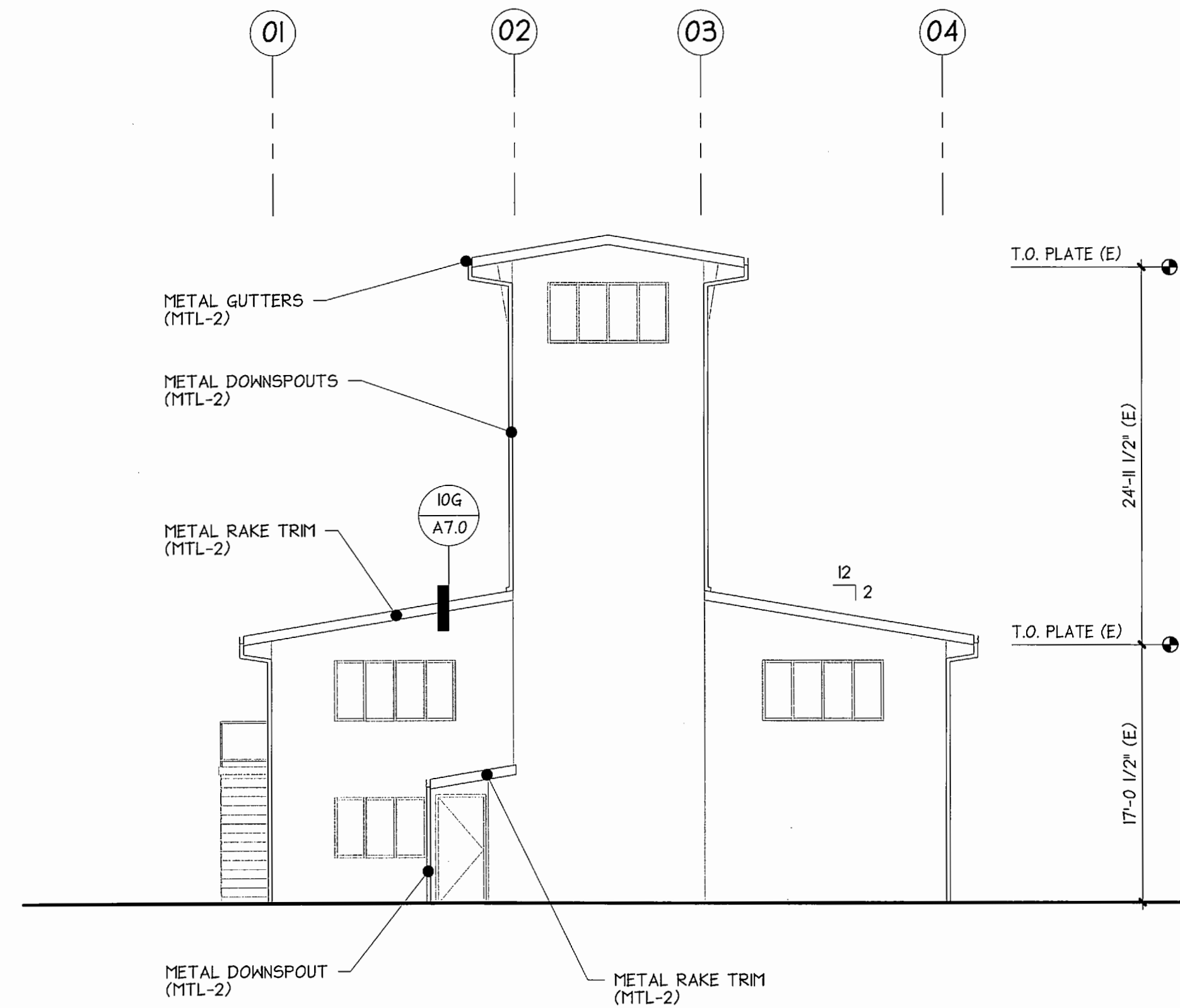
50 NORTH ELEVATION
1/8" = 1'-0"




~~10C~~ SOUTH ELEVATION
1/8" = 1'-0"



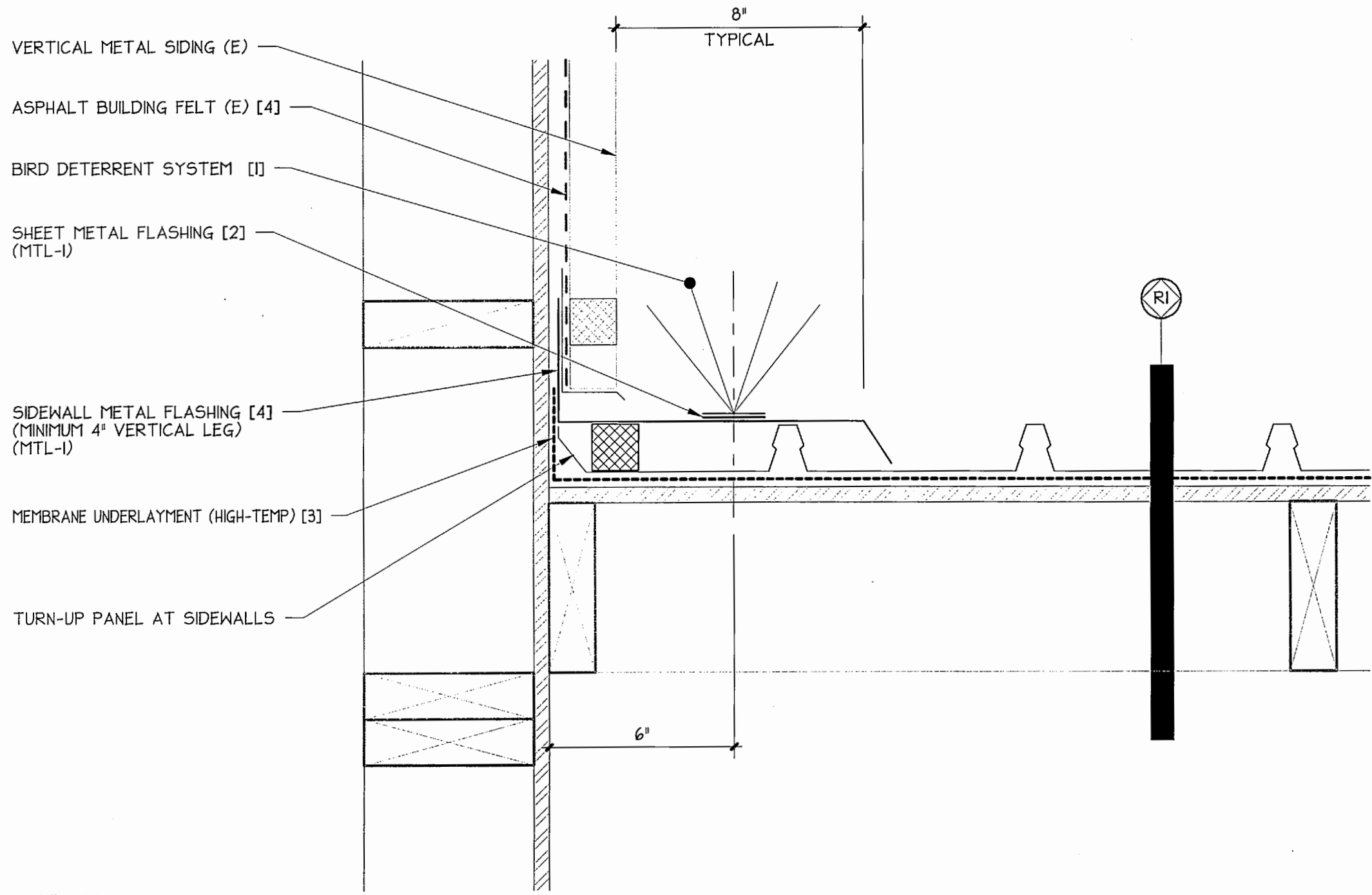
 EAST ELEVATION
1/8" = 1'-0"



10G WEST ELEVATION
1/8" = 1'-0"

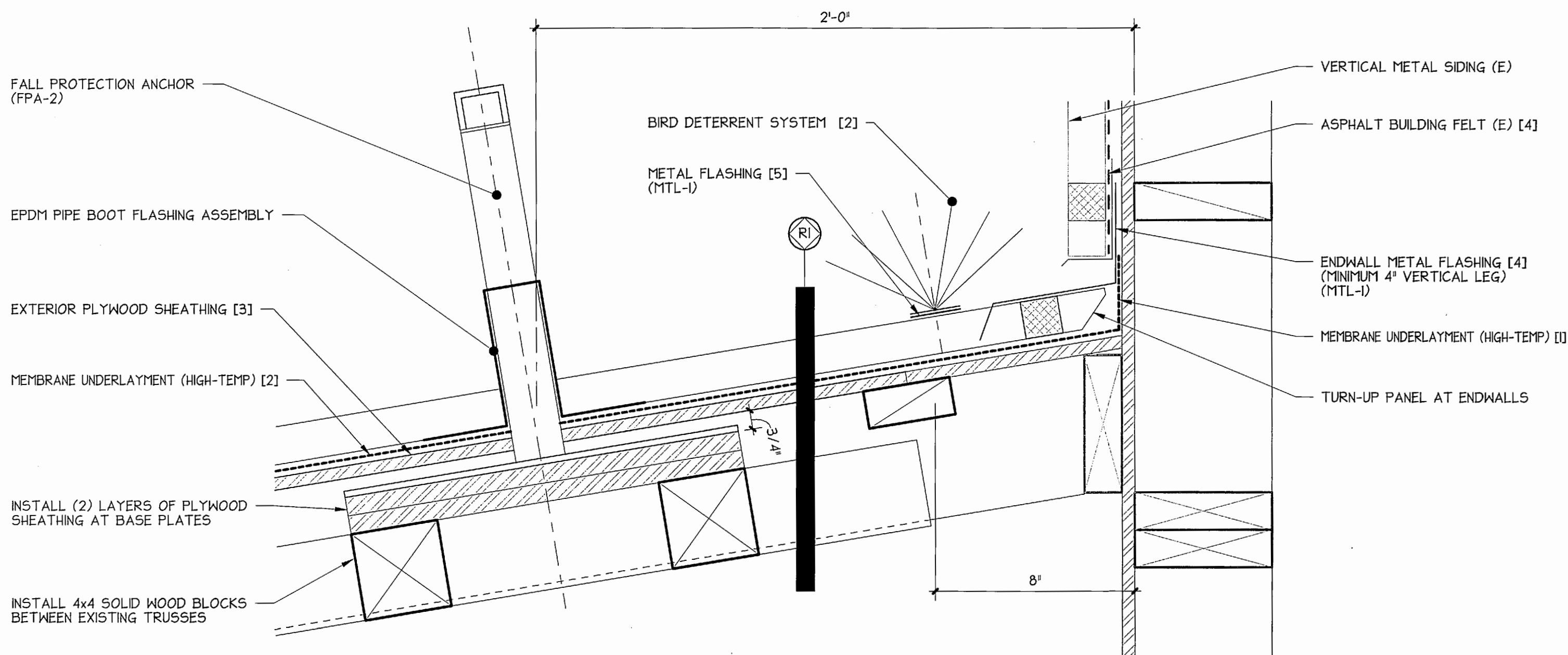
8560 A3.0 6 OF 8	TOTE MARINE TOWER ROOF REPLACEMENT EXTERIOR ELEVATIONS			APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: <i>7-14-16</i>	HDG CHECKED BY DATE	6021 12th street east suite 201 tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499	 Part of Tacoma <small>P.O. BOX 887 TACOMA, WA 98401 (253)835-5841</small>		
TOWNSHIP: 21 DAT-HRZ: WA83-SF PARCEL:	RANGE: 03 VERI: MLLW 19.39' @ Tide 22 1933	SECTION: 35	PRINTED BY: BLACHOWSKI PORT ADDRESS: TACOMA, WASHINGTON	PROJ. ENGR. DATE:	MARK:	REVISION:	BY:	APPR:	DATE:
DRAWING SCALE: 1/8" = 1'-0"									

PORT OF TACOMA FILE: PROJECT: 016-066 6/10/2016 7:15:48 AM C:\Users\JeffB\Documents\REVIT PROJECTS_JEFFB\016-066-BW16-A-JEFFB.rvt



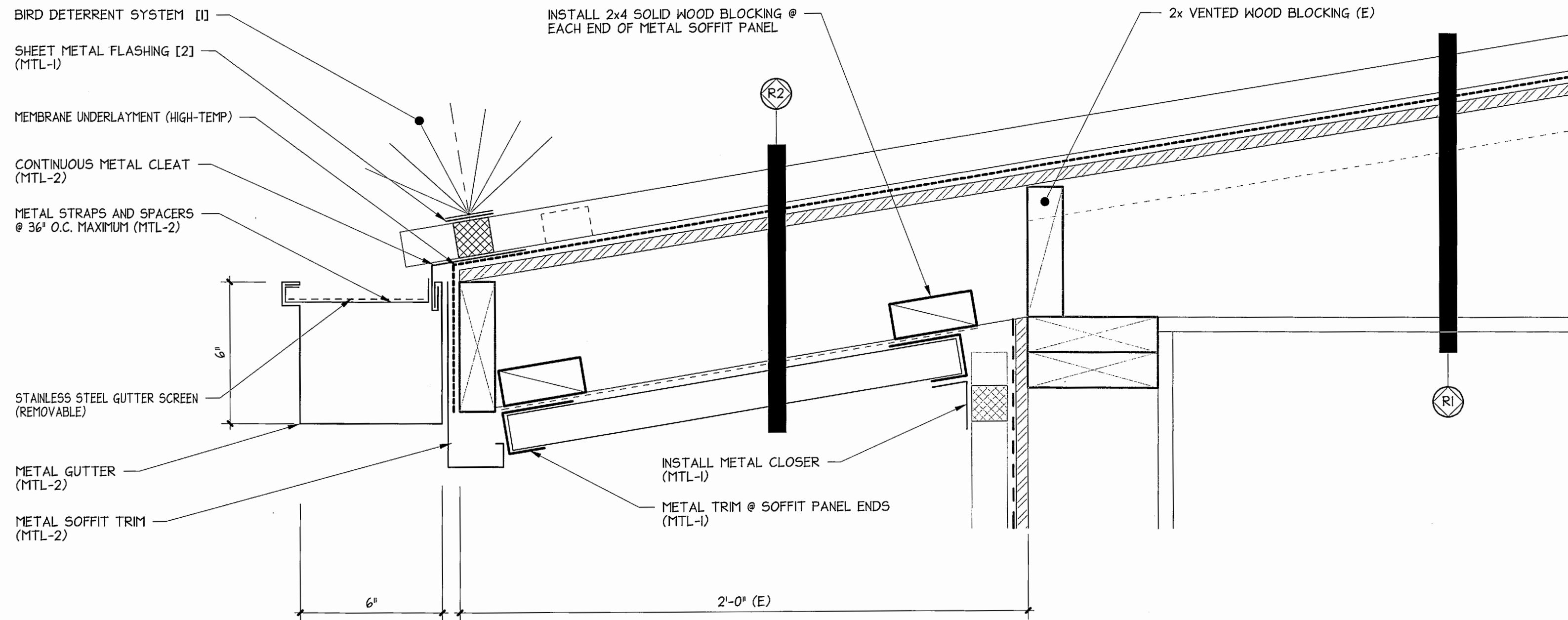
- FOOTNOTES:
- [1] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
 - [2] 2\"/>

5A
3\"/>



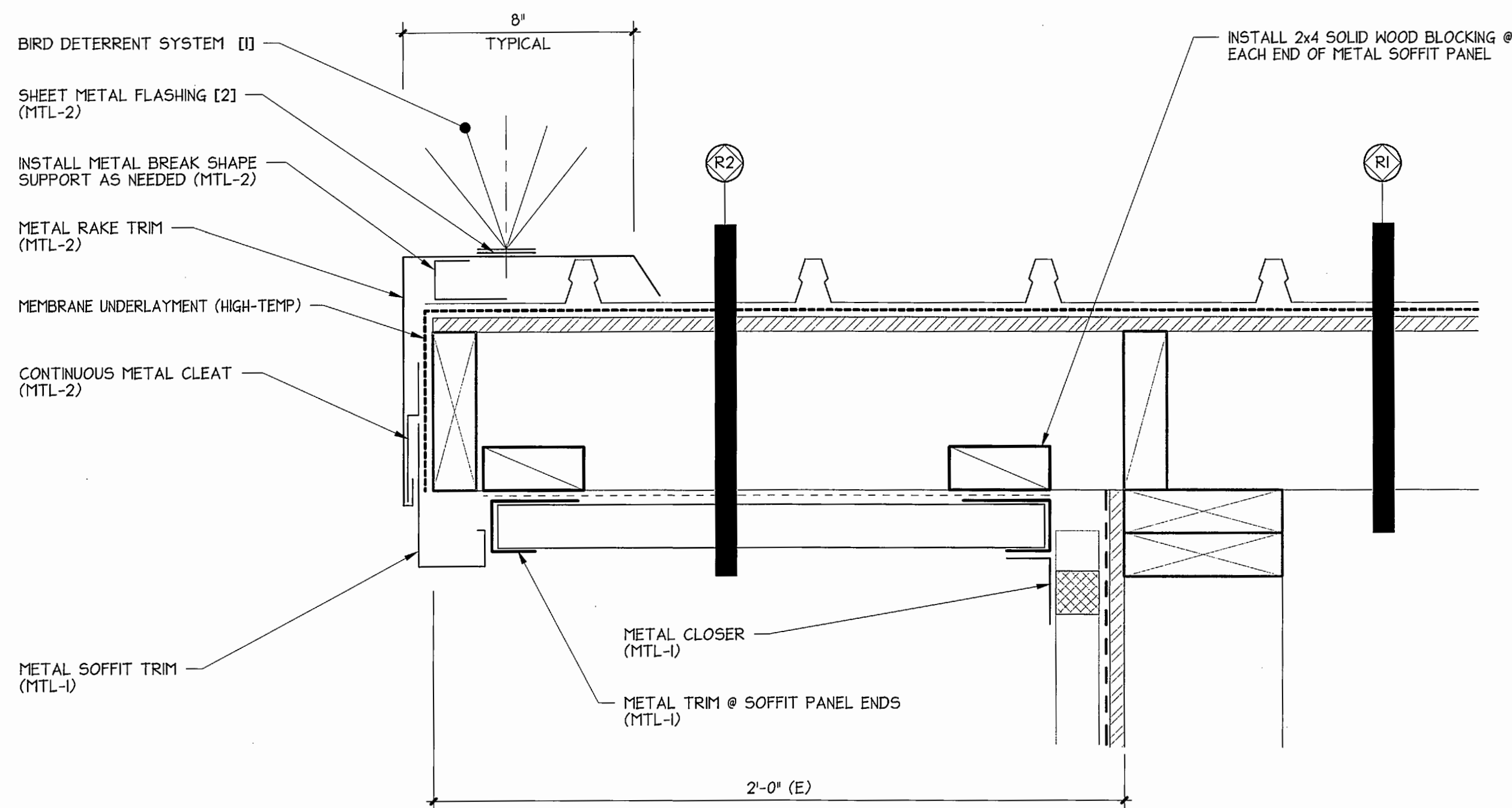
- FOOTNOTES:
- [1] EXTEND MEMBRANE UNDERLAYMENT (HIGH-TEMP) UPWARD 4\"/>

10A
3\"/>



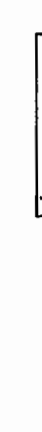


- FOOTNOTES:
- [1] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
 - [2] 2\"/>

5E
3\"/>



- FOOTNOTES:
- [1] ADHERE BIRD DETERRENT SYSTEM TO SHEET METAL FLASHING.
 - [2] 2\"/>

10G
3\"/>

6560 A7.0 7 OF 8	TOTE MARINE TOWER ROOF REPLACEMENT DETAILS				APPROVED: <i>Shawn Howard</i> 7-16-16 DIRECTOR ENG. DATE: 7-16-16 PRINTED BY: BLACHOWSKI PORT ADDRESS: TACOMA, WASHINGTON	HDC CHECKED BY DATE 06.20.16		 6021 12th street east suite 201 tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499 P.O. BOX 887 TACOMA, WA 98401 (253) 358-5841	 Port of Tacoma		
	CONT/CONS:	TOWNSHIP: 21	RANGE: 03	SECTION: 35							
	M. ID:	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: 3" = 1'-0"							
	PHASE: BID SET		06.20.16	PARCEL:							
						MARK:	REVISION:	BY:	APPR:	DATE:	

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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 LBE SCL (STRUCTURAL COMPOSITE LUMBER). IN-PLACE MOISTURE CONTENT UNDER 15%.

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

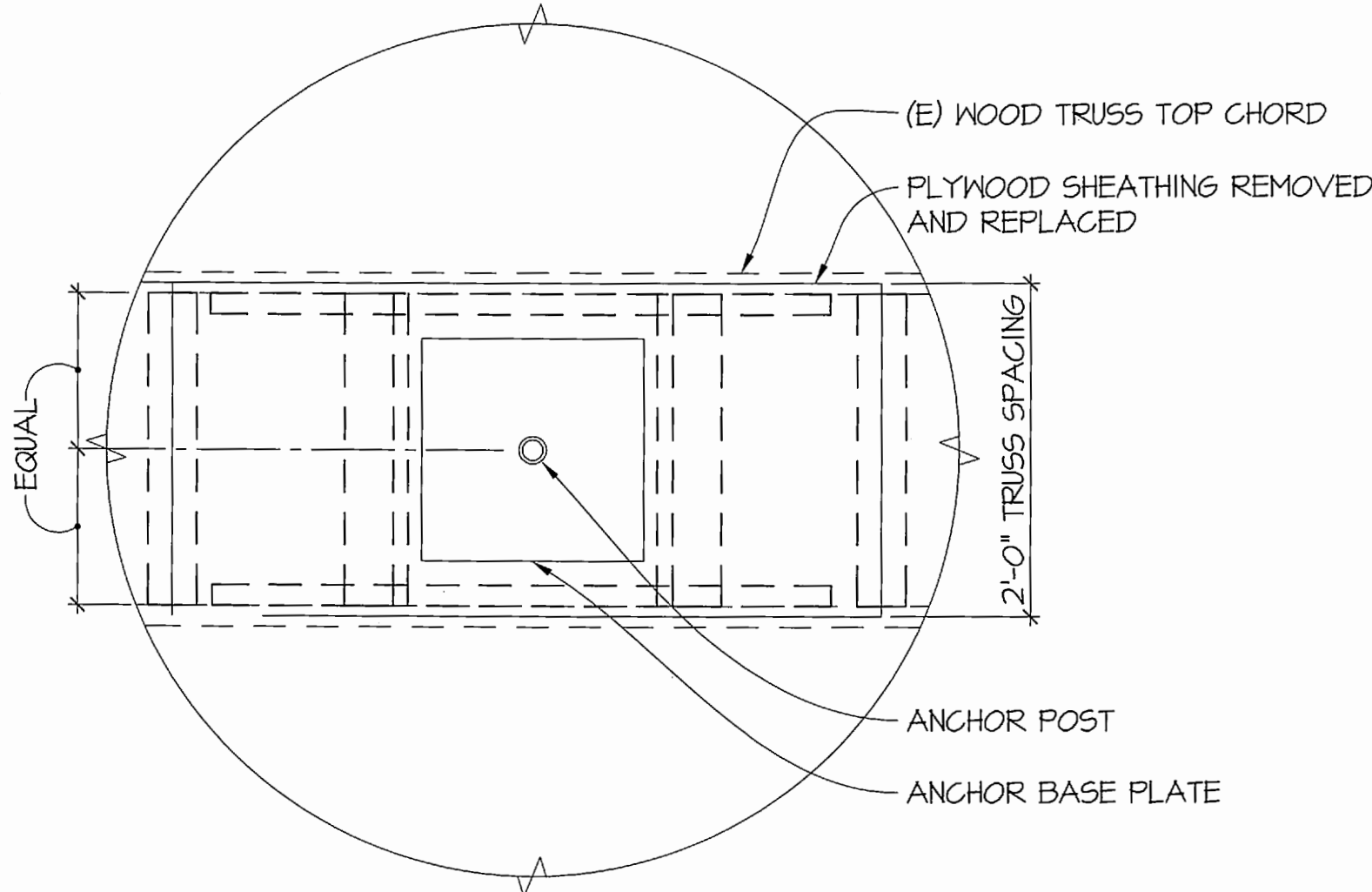
METAL CONNECTORS: SIMPSON STRONG TIE OR APPROVED WITH ICC CERTIFICATION. INSTALL THE LARGEST SIZE FASTENER IN ALL HOLES PER THE PRODUCT SCHEDULE.

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
- ND5 LOAD DURATION: 2 FOR IMPACT
- NET ASD DESIGN FORCE INCLUDING IMPACT DURATION: 1250 LBS
- TRUSS 2x6 TOP CHORD:
 - P = 1250 LBS (0.5) = 625 LBS (LOAD SHARED BY 2 TRUSSES)
 - OVERTURNING COUPLING REACTIONS = 625 LBS +/-
 - M = 625 LBS (1.0 FT) (0.5) = 313 FT-LBS
 - Fb = 495 PSI (PLUS DEAD LOAD STRESSES)
 - V = 625 LBS
 - Fv = 114 PSI (PLUS DEAD LOAD STRESSES)



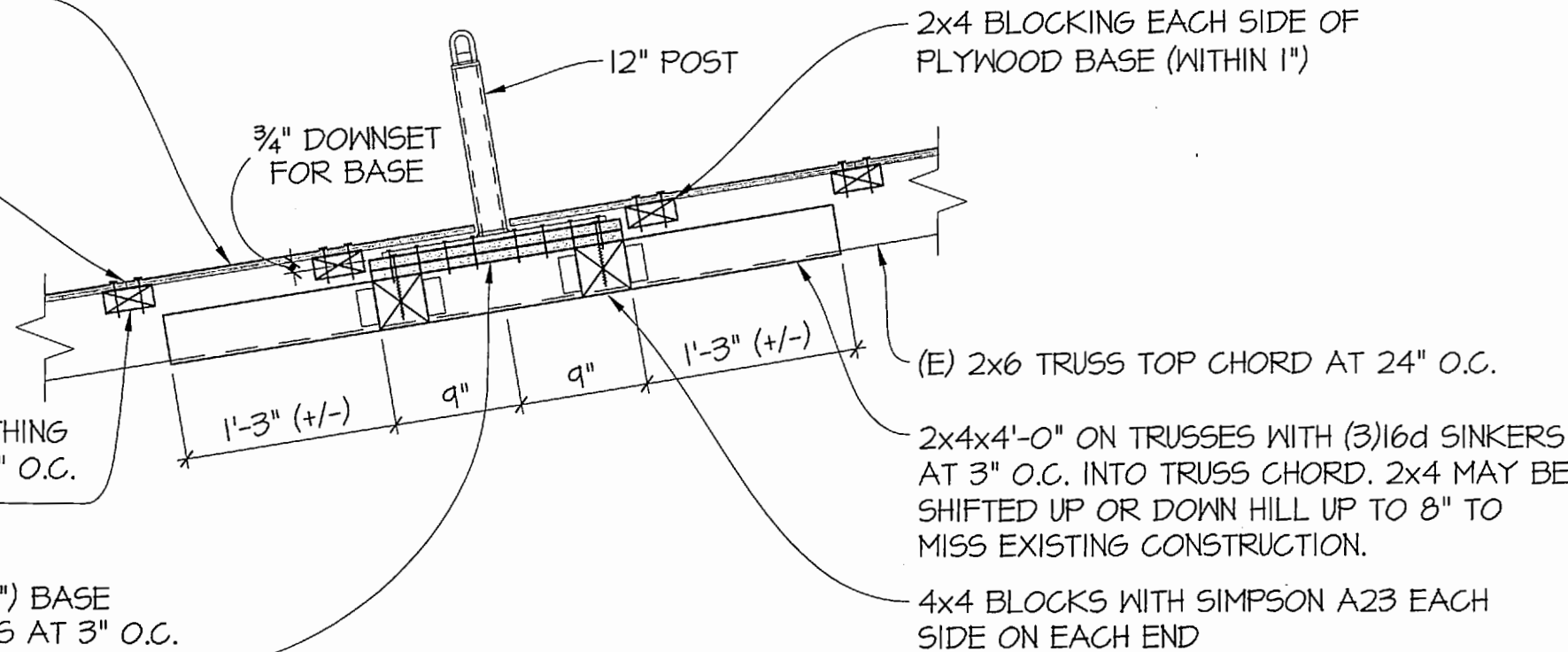
TYPICAL ANCHOR
PLAN DETAIL
1"=1'-0"

(E) 1/2" PLYWOOD SHEATHING. REMOVE AND REPLACE TO INSTALL BLOCKING. JOINT AT CENTERLINE OF TRUSSES. CREATE JOINTS NO LESS 12" FROM EXISTING PANEL JOINTS PERPENDICULAR TO THE TRUSSES. FASTEN (INCLUDING EDGES OF EXISTING PANELS) WITH 8d AT 3" O.C. INTO TRUSS TOP CHORD AND BLOCKING.

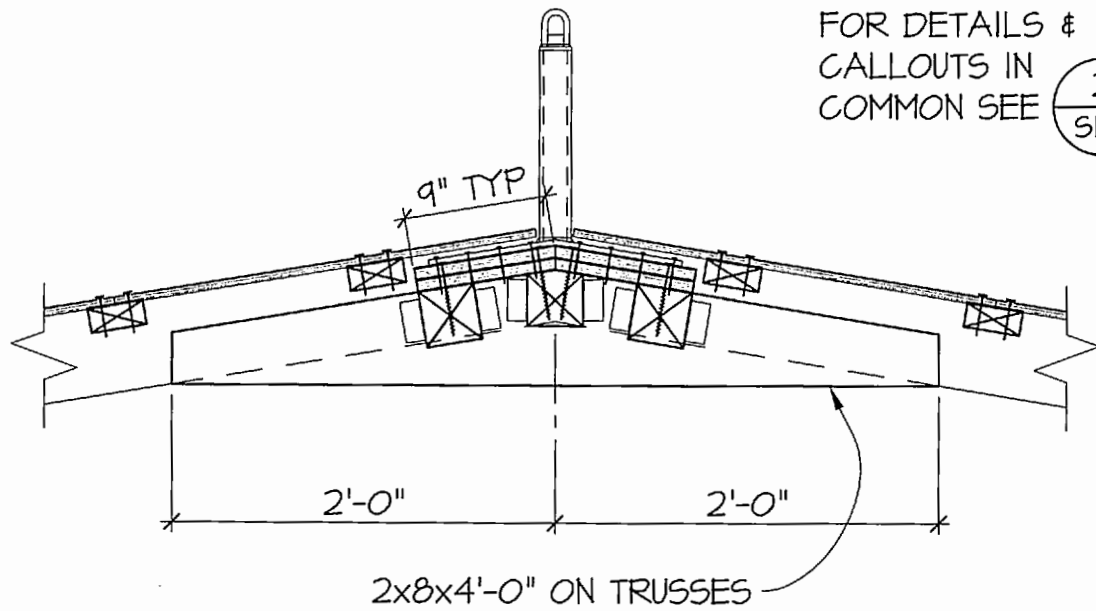
JOINT IN SHEATHING CREATED WHERE REMOVED.

2x4 BLOCKING WHERE EXISTING SHEATHING IS JOINTED WHERE REMOVED. 8d AT 3" O.C. IN SHEATHING FOR BOTH PANELS.

(2) LAYERS 3/4" AC PLYWOOD (18"x22 1/2") BASE WITH 0.22"φx5" SIMPSON SDWS SCREWS AT 3" O.C. INTO 4x4's AND 2x4's.



TYPICAL ANCHOR ON ROOF SLOPE
DETAIL
1"=1'-0"



TYPICAL ANCHOR AT RIDGE
DETAIL
1"=1'-0"

POT Drawing No.
S1.0
8 OF 8

**TOTE MARINE TOWER
ROOF REPLACEMENT
DETAILS**

CONTRACT/CONS: TOWNSHIP: 21 RANGE: 03 SECTION: 35
DATE-HRZ: WAB3-SF VERT: MLLW 19.39' @ Tide 22 1933
PHASE: BID SET PARCEL: DRAWING SCALE: 1"=1'-0"

APPROVED: *[Signature]* 7/14/16
DIRECTOR ENG. DATE: 7/14/16
PRINTED BY: MCS
PORT ADDRESS:

PCS 06.20.16
CHECKED BY DATE
PROJ. ENGR. DATE
REVISION:

Port of Tacoma
P.O. BOX 1897 TACOMA, WA 98401 (253)395-5941

PCS
Structural Solutions
431 First Avenue, Suite 604
Tacoma, Washington 98404
Tel: (253)395-5941
Fax: (253)395-5942

Port of Tacoma
P.O. BOX 1897 TACOMA, WA 98401 (253)395-5941

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