

PORT OF TACOMA FILE: PROJECT: 101249.01
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PORT OF TACOMA

EBC BLDG 326 HVAC & ROOF REPLACEMENT & BLDGS 407 & 532 BIRD WIRE PROJECT NO. 101249.01 CONTRACT NO.070941

PORT COMMISSIONERS:

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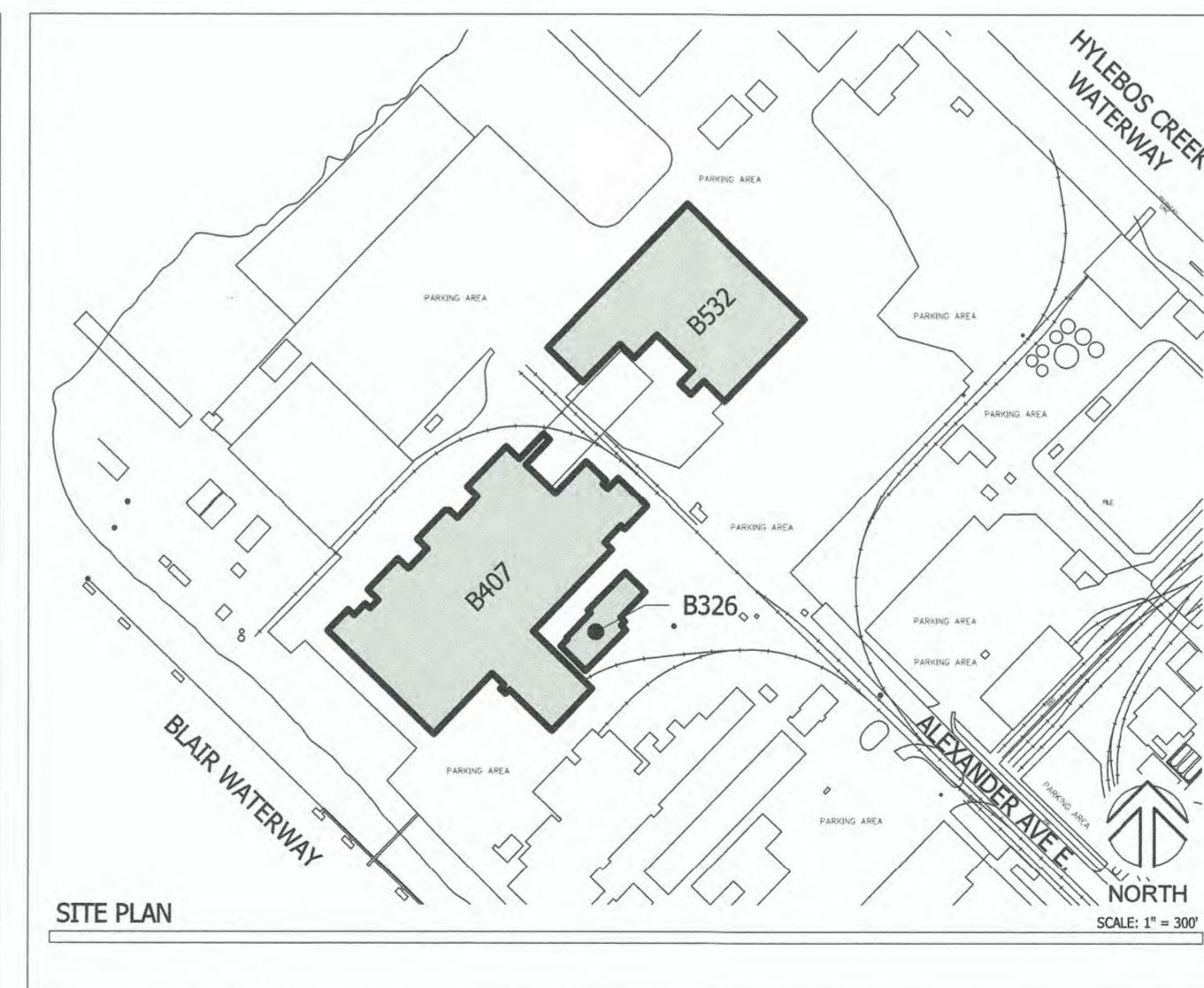
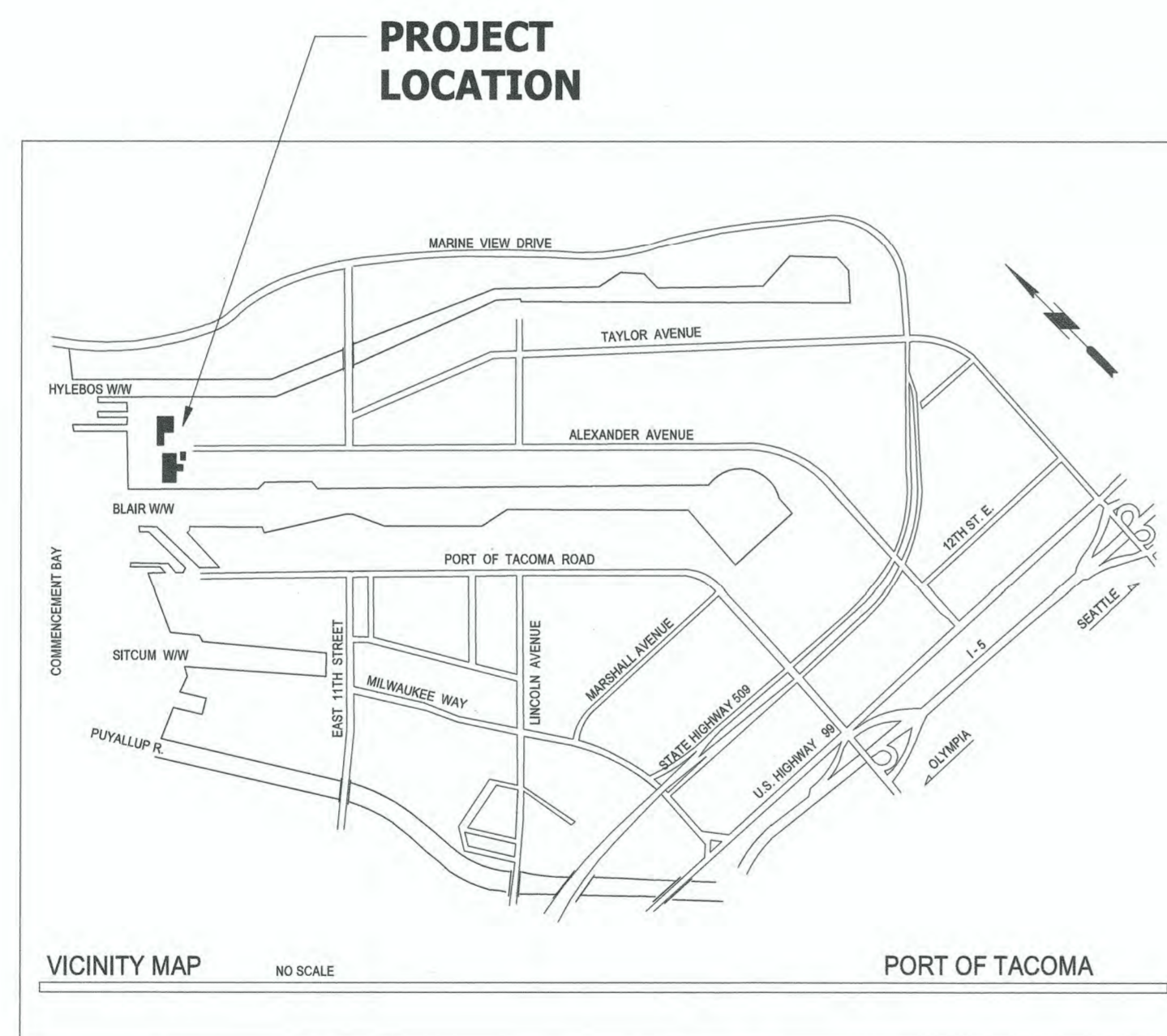
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PROJECT INFORMATION	
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GOVERNING CODE	CITY OF TACOMA MUNICIPAL CODE TITLE 13 - LAND USE REGULATORY CODE
PARCEL NUMBER	5000350013
ZONING	CHAPTER 13.06 & 13.06A 13.06.400.B.3 PMI - PORT MARITIME & INDUSTRIAL DISTRICT

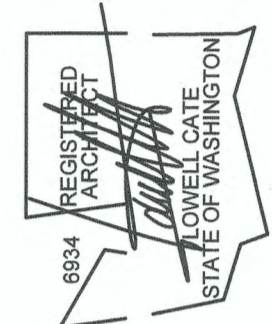
DRAWING LIST			
SHEET DESIGNATION	Sheet ##	SHEET TITLE	REVISION
G1.10	1	COVER SHEET	
G2.10	2	GENERAL NOTES	
D1.10	3	DEMOLITION ROOF PLAN - B326	
A1.10	4	ROOF PLAN - B326	
A1.11	5	BIRD DETERRENT PLAN - B326	
A1.20	6	ROOF PLAN - B407	
A1.30	7	ROOF PLAN - B532	
A5.10	8	EXTERIOR DETAILS	
S1.0	9	FALL RESTRAINT AND PARAPET DETAILS	
M0.01	10	LEGEND AND NOTES	
M0.02	11	SCHEDULES	
M1.01	12	DEMO PLAN	
M3.01	13	MECHANICAL PLAN	
M3.02	14	DETAILS	
E0.01	15	LEGEND AND NOTES	
E1.01	16	ELECTRICAL DEMO PLAN	
E2.01	17	ELECTRICAL ROOF PLAN	
E5.01	18	ONE LINE DIAGRAM	



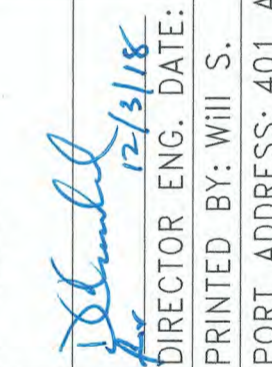
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**EBC BLDG 326 HVAC & ROOF REPLACEMENT
 & BLDGS 407 & 532 BIRD WIRE**

COVER SHEET

TOWNSHIP: 21 RANGE: 03 SECTION: 35
 DAT-HRZ: WAB3-SF VERT-MLW 13.39' @ Tide 22 1933
 PARCEL: 5000350013 DRAWING SCALE: As Indicated

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1 OF 18

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 M. ID: _____
 PHASE: PERMIT SUBMITTAL

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STANDARD ABBREVIATION LIST

A.F.F.	ABOVE FINISH FLOOR	IRGWB	IMPACT RESISTANT GYPSUM WALLBOARD	U.N.O.	UNLESS NOTED OTHERWISE
ACT	ACOUSTICAL CEILING TILE	I.D.	INSIDE DIAMETER	VB	VAPOR BARRIER
ADD'L	ADDITIONAL	INT	INTERIOR	VP	VENEER PLASTER
ADJ	ADJUSTABLE	JT	JOINT	VERT	VERTICAL
ALUM	ALUMINUM	JST	JOIST	VMS	VERTICAL METAL SIDING
ADA	AMERICANS WITH DISABILITIES ACT	LAV	LAVATORY	W.C.	WATER CLOSET
AWP	ARCHITECTURAL WALL PANEL	LP	LIGHT POLE	WH	WATER HEATER
ASMB	ASSEMBLY	MFR	MANUFACTURER	WRB	WATER RESISTANT BOARD
BM	BEAM	MAS	MASONRY	WRGWB	WATER RESISTANT GYPSUM WALLBOARD
BRG	BEARING	MAX	MAXIMUM	WT	WEIGHT
BTWN	BETWEEN	MECH	MECHANICAL	W.W.F.	WELDED WIRE FABRIC
BN	BIRD NETTING	MDF	MEDIUM DENSITY FIBERBOARD	W	WIDTH
BLKG	BLOCKING	MTL	METAL	WIN	WINDOW
BD	BOARD	MWP	METAL WALL PANEL	W/	WITH
BOT	BOTTOM	MIN	MINIMUM	W/O	WITHOUT
BLDG	BUILDING	MISC.	MISCELLANEOUS	WD	WOOD
B.U.	BUILT UP	MR	MOISTURE RESISTANT	WP	WORK POINT
CLG	CELLING	M-R	MOLD RESISTANT		
CBB	CEMENTITIOUS BACKER BOARD	M	MORTAR		
C.O.S.	CENTER OF STRUCTURE	NOM	NOMINAL		
CLR	CLEAR	N/A	NOT APPLICABLE		
COL	COLUMN	N.I.C.	NOT IN CONTRACT		
C	COMPACT	N.T.S.	NOT TO SCALE		
CONC	CONCRETE	NO	NUMBER		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER		
CONST	CONSTRUCTION	OPNG	OPENING		
CONT	CONTINUOUS	OPP	OPPOSITE		
C.I.	CONTINUOUS INSULATION	OZ	OUNCE		
CJ	CONTROL JOINT	O.D.	OUTSIDE DIAMETER		
COORD	COORDINATE	O.R.D.	OVERFLOW ROOF DRAIN		
CV	COVER	O.R.L.	OVERFLOW ROOF LEADER		
CU	CUBIC	O.S.	OVERFLOW SCUPPER		
(D)	DEMOLISH	O.H.	OVERHEAD		
D	DEPTH	PT	PAINT		
DIA	DIAMETER	PERP	PERPENDICULAR		
DBL	DOUBLE	PLY	PLYWOOD		
DN	DOWN	PSF	POUND PER SQUARE FOOT		
D.S.	DOWNSPOUT	LBS	POUNDS (WEIGHT)		
EA	EACH	PP	POWER POLE		
ELECT	ELECTRICAL	P.T.	PRESSURE TREATED		
E.P.	ELECTRICAL PANEL	QTY	QUANTITY		
EL	ELEVATION	R	RADIUS		
EQ	EQUAL	REINF	REINFORCED		
EQUIP	EQUIPMENT	RLT	RELITE		
(E)	EXISTING	(R)	RELOCATE		
EJ	EXPANSION JOINT	(r)	REMOVABLE		
EXT	EXTERIOR	REQD	REQUIRED		
F.O.S.	FACE OF STRUCTURE	R	RISER		
FT	FEET / FOOT	R.D.	ROOF DRAIN		
FIG	FIGURE	RTU	ROOF TOP UNIT		
FIN	FINISH	R.O.	ROUGH OPENING		
FF	FINISH FLOOR	SG	SAFETY GLASS		
F.E.	FIRE EXTINGUISHER	(S)	SALVAGE		
F.H.	FIRE HYDRANT	SCH	SCHEDULE		
FLR	FLOOR	SCR	SCREEN		
FTG	FOOTING	SLR	SEALER		
FDN	FOUNDATION	SJ	SEISMIC JOINT		
FRMG	FRAMING	SHTG	SHEATHING		
FH	FULL HEIGHT	SHT	SHEET		
F.I.C.	FURNISHED AND INSTALLED BY CONTRACTOR	SV	SHEET VINYL		
F.I.O.	FURNISHED AND INSTALLED BY OWNER	SDG	SIDING		
F.O.I.C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	SIM	SIMILAR		
(F)	FUTURE	S.O.G.	SLAB ON GRADE		
GALV	GALVANIZED	SC	SOLID CORE		
GEN	GENERAL	S	SOUND		
GC	GENERAL CONTRACTOR	SPEC	SPECIFICATIONS		
GL	GLASS	SQ	SQUARE		
GA	GAUGE	SF	SQUARE FEET		
GYP	GYPSUM	STN	STAIN		
G.A.	GYPSUM ASSOCIATION	SS	STAINLESS STEEL		
GWB	GYPSUM WALL BOARD	STD	STANDARD		
H.C.	HANDICAPPED	STL	STEEL		
HDW	HARDWARE	ST	STONE		
HDR	HEADER	THK	THICK		
HT	HEIGHT	G.A.	THREADED		
HM	HOLLOW METAL	TRTD	TONGUE AND GROOVE		
HK	HOOK	T.O.	TOP OF		
HOR	HORIZONTAL	T.O.B.	TOP OF BEARING		
HMS	HORIZONTAL METAL SIDING	T.O.F.	TOP OF FLOOR		
HR	HOUR	T.O.W.	TOP OF WALL		
		TFR	TRANSFORMER		
		TS	TUBE STEEL		
		TYP	TYPICAL		
		UNFIN	UNFINISHED		

BUILDING ASSEMBLY LEGEND

PARAPET WALL

ASSEMBLY

MATERIALS

FINISH PER SCHEDULE
 SINGLE PLY MEMBRANE ROOFING *
 1/2" PLYWOOD SHEATHING
 2X8, 24" O.C. WOOD STUD FRAMING
 1/2" PLYWOOD SHEATHING
 WEATHER RESISTIVE BARRIER (SPRAY APPLIED) **
 METAL WALL PANEL (RAINSCREEN SYSTEM) *
 FINISH PER SCHEDULE

* FASTENED TO WOOD STUD FRAMING.
 ** VAPOR PERMEABLE AIR BARRIER.

ROOF

ASSEMBLY

MATERIALS

FINISH PER SCHEDULE
 SINGLE-PLY MEMBRANE ROOFING *
 1/4" COVER BOARD *
 R-38 C.I. TAPERED RIGID INSULATION * [1]
 EXISTING 4 1/2" STEEL DECK**
 EXISTING STRUCTURAL STEEL BEAMS **

* MANUFACTURER / INSTALLER TO PROVIDE ALL COMPONENTS REQUIRED TO MEET MINIMUM CLASS C ROOF ASSEMBLY.
 ** EXISTING ROOF STRUCTURE TO REMAIN

ASSEMBLY

MATERIALS

FINISH PER SCHEDULE
 SINGLE-PLY MEMBRANE ROOFING *
 1/4" COVER BOARD *
 R-38 C.I. TAPERED RIGID INSULATION * [1]
 VAPOR BARRIER
 EXISTING CONCRETE SLAB**
 EXISTING STEEL DECK **

* MANUFACTURER / INSTALLER TO PROVIDE ALL COMPONENTS REQUIRED TO MEET MINIMUM CLASS C ROOF ASSEMBLY.
 ** EXISTING ROOF STRUCTURE TO REMAIN

SYMBOLS

GRID LINE DESIGNATION

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

BUILDING SECTION

SECTION NUMBER
 SHEET NUMBER

WALL SECTION

SECTION LETTER
 SHEET NUMBER

DETAIL

DETAIL NUMBER
 SHEET NUMBER

REVISION

REVISION

MATCHLINE

NORTH ARROW

BUILDING THERMAL ENVELOPE LEGEND

INSULATION VALUES

EXTERIOR ENVELOPE:

ROOFS: R-38 C.I. TAPERED RIGID INSULATION, MAXIMUM AREA WEIGHTED EFFECTIVE U-FACTOR 0.027 IN ACCORDANCE WITH SECTION A102.2.6 WASHINGTON STATE ENERGY CODE.

NOTES

- ALL INSULATION MATERIALS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO ACHIEVE PROPER DENSITIES, MAINTAIN CLEARANCES, AND MAINTAIN UNIFORM R-VALUES. R-VALUE IDENTIFICATION MARKS SHALL BE APPLIED TO ALL INSULATION MATERIALS AND READILY VISIBLE FOR INSPECTION WHEN INSTALLED.
- ALL INSULATION R-VALUES INDICATED FOR ASSEMBLY TYPES ARE MINIMUMS. INSTALL INSULATION IN A MINIMUM OF TWO LAYERS WITH JOINTS STAGGERED BETWEEN LAYERS.
- POLYISOCYANURATE RIGID INSULATION R-VALUE: R-5.7 PER 1" THICKNESS (MAXIMUM CALCULATION).

CODE INFORMATION

GOVERNING CODE	2015 INTERNATIONAL BUILDING CODE (IBC) WASHINGTON STATE AMENDMENTS
OCCUPANCY CLASSIFICATION IBC CHAPTER 3	F-1 FACTORY INDUSTRIAL BUSINESS
CONSTRUCTION TYPE IBC SECTION 602	VB (NON-FIRE RATED) (COMBUSTIBLE CONSTRUCTION)
BUILDING INFORMATION	
BUILDING 326	9,579 SQ FT
BUILDING 407	124,965 SQ FT: SPRINKLERED
BUILDING 532	69,712 SQ FT: SPRINKLERED

BUILDING ASSEMBLY NOTES

[1] EXISTING ROOF DECK STEPS DOWN APPROXIMATELY 2" AT SHADED LOCATIONS SHOWN ON ROOF PLAN. PROVIDE AN ADDITIONAL BASE LAYER OF INSULATION AS INDICATED. EXISTING ROOF DECKS ARE FLAT, SLOPE PROVIDED BY TAPERED INSULATION.

COLORS AND MATERIALS SCHEDULE

SECTION 05 50 00 - METAL FABRICATIONS

SYMBOL	MATERIAL	MANUFACTURER	COLOR / PATTERN / TYPE
STL-1	PRE-FINISHED GALVANIZED STEEL	-	COLOR: BLUE, MFR'S STANDARD COLOR SIMILAR TO EXISTING DOOR.
STL-2	PRE-FINISHED GALVANIZED STEEL	-	COLOR: GRAY MFR'S STANDARD COLOR SIMILAR TO EXISTING SIDING
STL-3	POWDER COATED GALVANIZED STEEL	-	COLOR: GRAY

SCHEDULE:

STL-1: SHEET METAL GUTTERS, FASCIA FLASHING, COPINGS AND RELATED COMPONENTS AND FASTENERS.
 STL-2: SHEET METAL CONDUCTOR HEADS AND DOWNSPOUTS
 STL-3: GALVANIZED STEEL LADDER

SECTION 07 46 19 - METAL WALL PANEL

SYMBOL	MATERIAL	MANUFACTURER	COLOR / PATTERN / TYPE
MWP-1	PRE-FINISHED GALVANIZED STEEL	-	PROFILE: AEP SPAN BOX RIB COLOR: MFR'S STANDARD COLOR SIMILAR TO EXISTING GRAY COLOR SIDING

SCHEDULE:

MWP-1: HORIZONTAL METAL SIDING

SECTION 07 92 00 - JOINT SEALANTS

SYMBOL	MATERIAL	MANUFACTURER	COLOR / PATTERN / TYPE
JTS-1	SEALANT (EXPOSED TO VIEW)	-	COLOR: TO MATCH ADJACENT MATERIALS

SECTION 07 54 23 - TPO ROOFING

SYMBOL	MATERIAL	MANUFACTURER	COLOR / PATTERN / TYPE
SPMR-1	TPO MEMBRANE ROOFING	-	COLOR: WHITE WALK PADS: GRAY

SCHEDULE:

SPMR-1: MEMBRANE ROOFING

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 tacoma, wa, 98424
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Helix
 design group

12.10.18
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 DIRECTOR: ENG. DATE: 12/13/18
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 TACOMA WA 98421

GENERAL NOTES

TOWNSHIP: 21 RANGE: 03 SECTION: 35
 DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933
 PARCEL: 5000350013 DRAWING SCALE: As indicated

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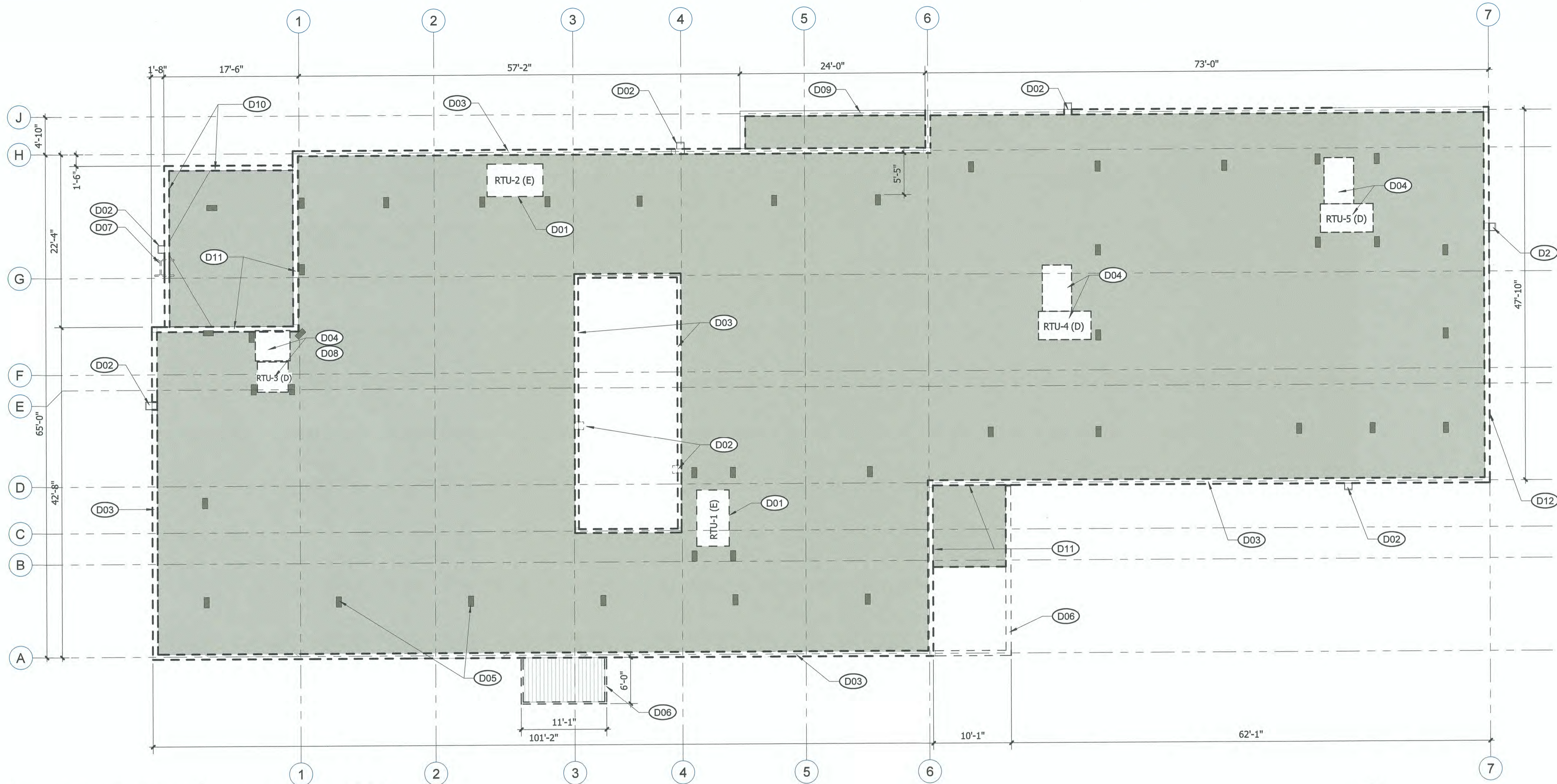
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GENERAL NOTES

NOTE

- THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIALS. THESE PLANS HAVE BEEN DEVELOPED FROM OWNER PROVIDED AS-BUILTS AND MAY VARY FROM ACTUAL FIELD CONDITIONS. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREA AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THEREON. ALL BIDDERS ARE ENCOURAGED TO PERFORM A WALK THROUGH PRIOR TO BIDDING.
- 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.
- 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 OWNER.
- CONTRACTOR SHALL DEMOLISH AND/OR CAP ALL UTILITIES CONNECTED TO EQUIPMENT IDENTIFIED TO BE DEMOLISHED OF SALVAGED SUCH THAT THE UTILITY WILL NOT INTERFERE WITH THE RENOVATION/ADDITION WORK UNDER THIS CONTRACT. (COORDINATE WITH MECHANICAL/ELECTRICAL DRAWINGS)
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURELY STORING ALL ITEMS IDENTIFIED TO BE CAREFULLY REMOVED, SALVAGED AND REINSTALLED.
- CONTRACTOR TO BE RESPONSIBLE FOR CUT AND PATCH AS REQUIRED TO ACCOMMODATE CONSTRUCTION (INCLUDING ALL MECHANICAL AND ELECTRICAL WORK).
- STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL TEMPORARY SHORING SUPPORT IS PART OF THIS CONTRACT.
- DEMOLITION WORK TO ACCOMMODATE BUILDING RENOVATIONS AND SYSTEMS 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 REQUIRED FOR ALL WORK IN THE PROJECT.
- EXISTING ROOFING AND INSULATION SHALL BE DEMOLISHED IN ITS ENTIRETY, DOWN TO THE EXISTING 4 1/2" METAL OR CONCRETE DECK. EXISTING ROOFING CONSISTS OF SINGLE PLY ROOFING MEMBRANE AND CONTINUOUS INSULATION (C.I.).
- DEMOLISH EXISTING SHEET METAL FASCIA SYSTEM, FASCIA TRIM AND AT PERIMETER OF ROOFS.
- DEMOLISH EXISTING BIRD DETERRENT SYSTEM
- DEMOLISH EXISTING WOOD EQUIPMENT CURBS UNLESS INDICATED OTHERWISE.
- THE EXISTING STEEL ROOF DECK FLUTES SHALL BE CLEANED OF DEBRIS, INCLUDING GRAVEL, PRIOR TO INSTALLATION OF NEW ROOFING



DEMOLITION PLAN - ROOF - B326

1/8" = 1'-0"

DEMOLITION LEGEND

DESCRIPTION	SYMBOL AND TEXT
ROOFING ASSEMBLY DEMOLITION demolition of existing membrane roofing and insulation system	
ABBREVIATIONS:	
(D) - DEMOLITION	
(R) - RELOCATE	
(E) - EXISTING TO REMAIN	
(S) - SALVAGE	
REFER TO SHEET G2.10 FOR STANDARD ABBREVIATIONS LIST.	
PARAPET WALL DEMOLITION	

DEMOLITION NOTES

SYMBOL	NOTE
(D01)	DEMOLISH EQUIPMENT CURB AND REMOVE, REINSTALL, AND RECONNECT EXISTING EQUIPMENT. COORDINATE EQUIPMENT DOWNTIME WITH ENGINEER.
(D02)	DEMOLISH SCUPPERS, CONDUCTOR HEADS AND DOWNSPOUTS, TYPICAL.
(D03)	DEMOLISH METAL COPING, PARAPET WALL AND SIDING ABOVE WINDOW BAND, TYPICAL AROUND PERIMETER OF BUILDING.
(D04)	DEMOLISH ROOF TOP UNIT AND EXPOSED DUCT.
(D05)	DEMOLISH BIRD DETERRENT SYSTEM, TYPICAL (ALL POLES, BASES, WIRES AND NETS).
(D06)	DEMOLISH ENTRY CANOPY PARAPET CAP FLASHING AND SIDING.
(D07)	DEMOLISH ROOF ACCESS LADDER.
(D08)	CUT ROOF DECK AS REQUIRED FOR NEW DUCT PENETRATIONS.
(D09)	DEMOLISH FASCIA FLASHING AND NAILERS AT CANOPY ROOF PERIMETER.
(D10)	DEMOLISH FASCIA FLASHING AND NAILERS ABOVE CMU WALL.
(D11)	DEMOLISH COPING, PARAPET WALL AND MEMBRANE FLASHING ON WALL.
(D12)	DEMOLISH ADDRESS NUMBERS.

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EBC BLDG 326 HVAC & ROOF REPLACEMENT & BLDGS 407 & 532 BIRD WIRE
DEMOLITION ROOF PLAN - B326

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PARCEL: 5000350013 DRAWING SCALE: 1/8" = 1'-0"

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3 OF 18

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ROOF PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT
ROOFING IDENTIFICATION material type	SINGLE-PLY MEMBRANE ROOFING
ROOF ASSEMBLY see G2.10 for assembly details	R1
ROOF RIDGE ridge line	RIDGE
ROOF PLANE CHANGE description, change in sloped roof planes	VALLEY
ROOF CRICKET sloped (cricket) roof plane	
SLOPE IDENTIFICATION direction indicator, rise/run	SLOPE → 1/2:12
ROOF INSULATION insulation R-value at high and low points	R#
ROOF TOP MECHANICAL UNIT hvac unit on 12" ht built-up curb with flashing	RTU-1
ROOF WALK PAD	
PARAPET WALL parapet wall	
FALL RESTRAINT ANCHOR anchor to roof structure, see detail 6 / A5.10 for flashing	F.R.A.

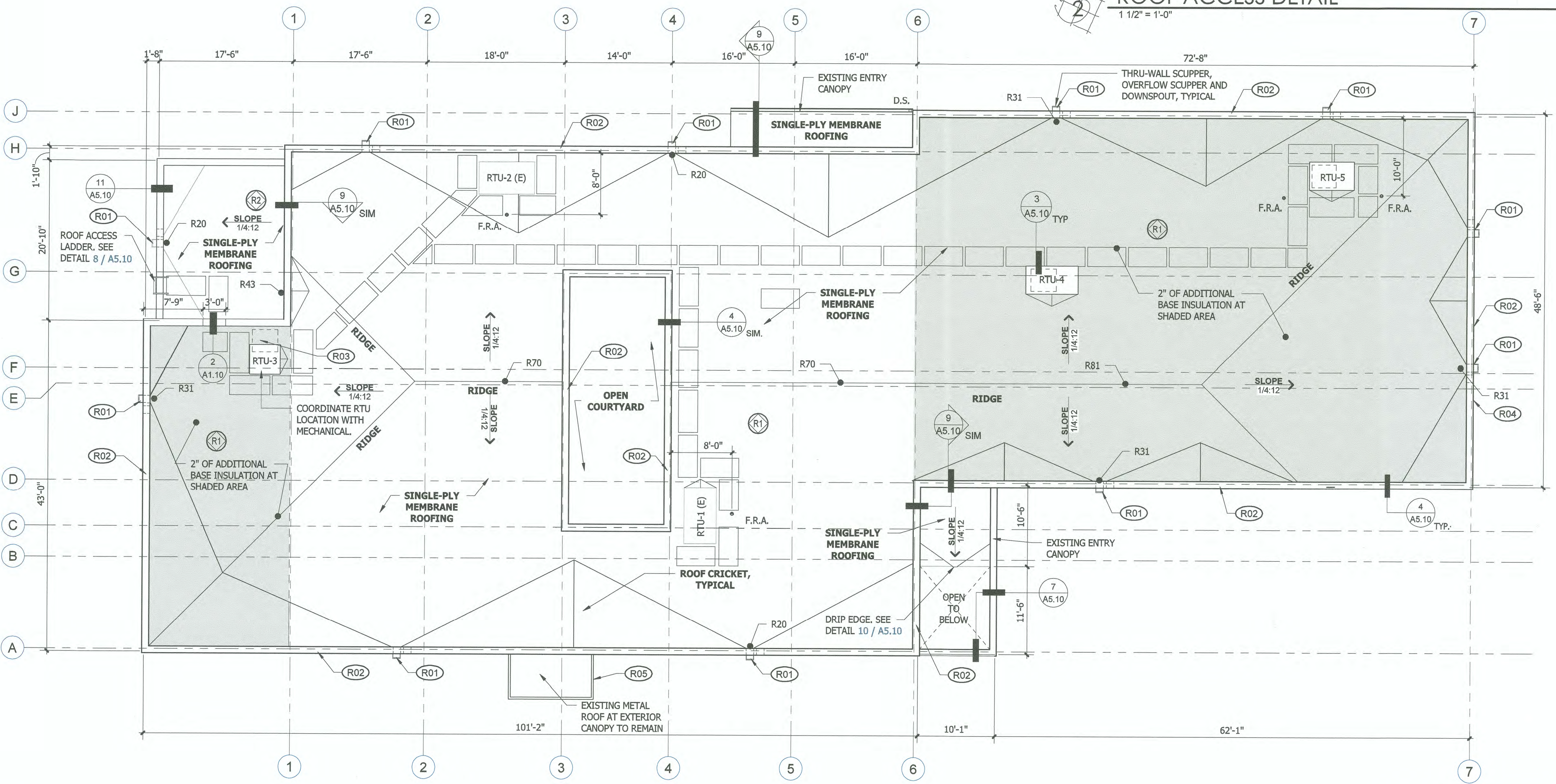
ROOF PLAN NOTES

SYMBOL	NOTE
(R01)	PROVIDE SCUPPER, CONDUCTOR HEAD AND DOWNSPOUT (SEE DETAIL 2 / A5.10) ROOF OVERFLOW SCUPPER (SEE DETAIL 5 / A5.10) WITH SPLASH BLOCK
(R02)	PARAPET PER DETAIL 4 / A5.10
(R03)	PATCH HOLE IN STEEL ROOF DECK WHERE DUCTS ARE REMOVED.
(R04)	PROVIDE FABRICATED ALUMINUM ADDRESS NUMBERS WITH WHITE PAINT FINISH TO MATCH EXISTING COLOR, SIZE AND FONT STYLE.
(R05)	PROVIDE COPING AND METAL WALL PANELS AT CANOPY.

GENERAL NOTES

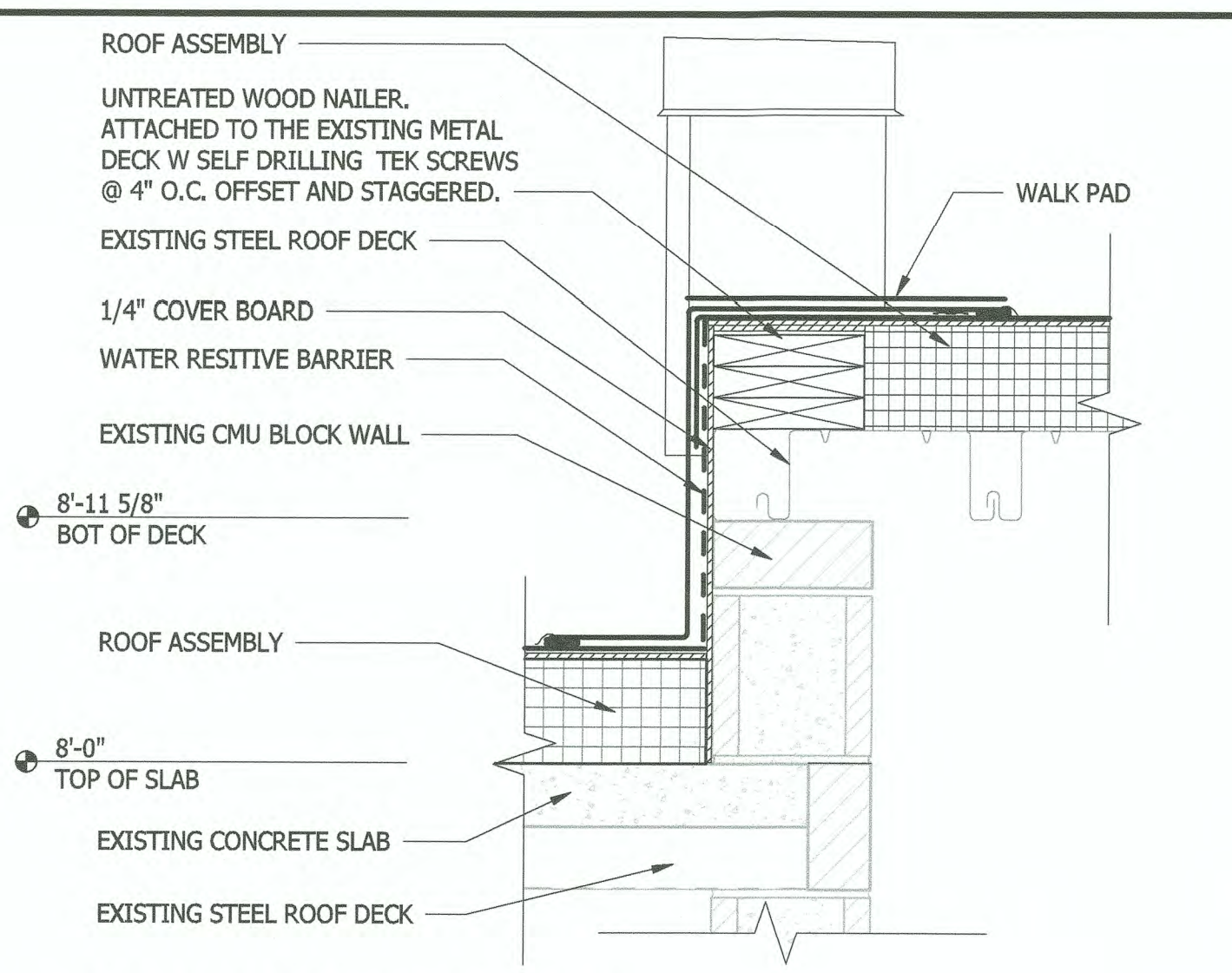
- NOTE
- ABBREVIATIONS:
(D) - DEMOLISH
(R) - RELOCATE
(E) - EXISTING TO REMAIN
(S) - SALVAGE

REFER TO SHEET G2.10 FOR STANDARD ABBREVIATIONS LIST.
 - PROVIDE BIRD DETERRENT SYSTEM, SEE SHEET A1.11
 - COORDINATE ROOFING WORK WITH ALL WORK SHOWN FOR BIRD DETERRENT SYSTEM, MECHANICAL AND ELECTRICAL WORK SHOWN ON OTHER SHEETS.
 - PATCH OPENINGS IN ROOF DECK WHERE EXISTING EQUIPMENT, CURBS, DUCTS, AND COVERS ARE REMOVED WITH METAL DECK TO MATCH EXISTING.
 - REPLACE CEILING TILE AND GRID DAMAGED DURING THE RELOCATION OF RTU-3 AND DUCT MODIFICATION.
 - SEAL AROUND OPENING IN EXTERIOR WALL WITH SELF-ADHERING MEMBRANE FLASHING LAPPED OVER WRB AND PENETRATING CONDUIT, PIPE, ETC.



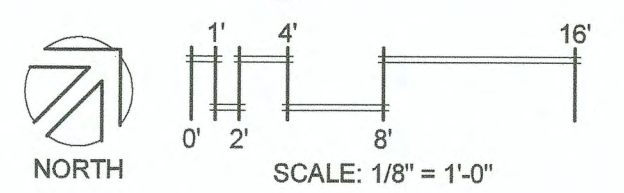
ROOF ACCESS DETAIL

1 1/2" = 1'-0"



ROOF PLAN

1/8" = 1'-0"



BID SET

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

DATE: _____
APPR: _____
BY: _____

REGISTERED ARCHITECT
6004
LEWIS GALE
STATE OF WASHINGTON

12.10.18
CHECKED BY: DATE
PROJ. ENGR. DATE
PRINTED BY: Author
DIRECTOR ENG. DATE: 12/31/18
PORT ADDRESS: 401 ALEXANDER AVENUE,
TACOMA WA 98421

EBC BLDG 326 HVAC & ROOF REPLACEMENT & BLDGS 407 & 532 BIRD WIRE

ROOF PLAN - B326

TOWNSHIP: 21 RANGE: 03 SECTION: 35
 DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933
 PARCEL: 5000350013 DRAWING SCALE: As indicated

A1.10

4 OF 18

CONTR/CONS: _____
 M. ID: _____
 PHASE: PERMIT SUBMITTAL

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PORT OF TACOMA FILE: PROJECT: 101249.01
 PLOT DATE: 12/10/2018 3:06:57 PM C:\Users\Willis\Desktop\Revit 2019 Projects\18-059 POT Bldgs 326, 407 & 532 (r19)_schickwm.rvt

BIRD DETERRENT LEGEND

DESCRIPTION	SYMBOL AND TEXT
BIRD DETERRENT SYSTEM	
ROOF POST*, WIRES AND ROOF PAD	
PARAPET MOUNTED POST AND WIRES*	
SEAGULL DETERRENT UMBRELLA / SPIDER, DIAMETER	
PARAPET BIRD SPIKES	
* SEE GENERAL NOTE C POLE MOUNTING REQUIREMENTS	
WIRES	

GENERAL NOTES

NOTE

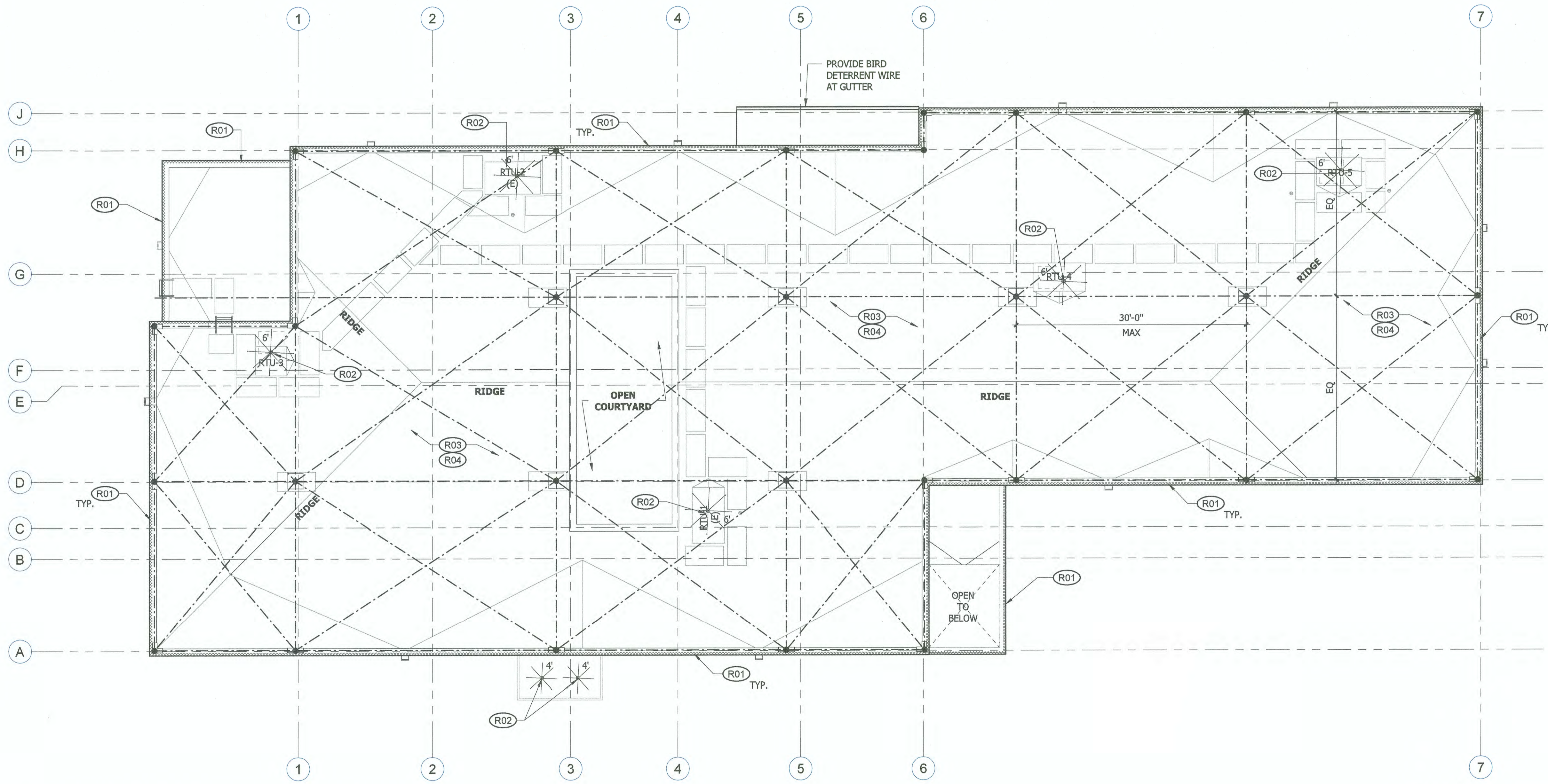
1. ABBREVIATIONS:

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

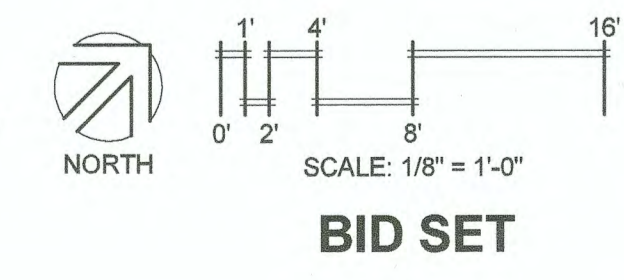
REFER TO SHEET G2.10 FOR STANDARD ABBREVIATIONS LIST.

ROOF PLAN NOTES

SYMBOL	NOTE
	PROVIDE BIRD DETERRENT SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 10 81 13, AS FOLLOWS:
(R01)	PROVIDE BIRD SPIKES ON PERIMETER PARAPET WALLS.
(R02)	PROVIDE UMBRELLAS AT ROOFTOP UNITS MECHANICAL UNITS AND EXISTING ENTRY CANOPY.
(R03)	PROVIDE POLES AND WIRES AT PERIMETER AND ACROSS FIELD OF ROOF. POLES AT PERIMETER SHALL BE MECHANICALLY ATTACHED TO PARAPET WALL WITH BRACKETS. INTERIOR POLES SHALL BE MOUNTED TO CONCRETE PAVERS ADHERED TO ROOF MEMBRANE WALK PADS. PROVIDE HORIZONTAL WIRES APPROXIMATELY 18" O.C. VERTICALLY BETWEEN THE PARAPET PERIMETER POLES, TYPICAL. BOTTOM WIRE SHALL BE LOCATED 8" ABOVE PARAPET
(R04)	PROVIDE CROSS WIRES DIAGONALLY BETWEEN POLES



B326 - BIRD DETERRENT LAYOUT
 1/8" = 1'-0"



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Helix
design group

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12/14/18
 DIRECTOR ENG. DATE: 12/14/18
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 TACOMA WA 98421

EBC BLDG 326 HVAC & ROOF REPLACEMENT & BLDGS 407 & 532 BIRD WIRE

BIRD DETERRENT PLAN - B326

TOWNSHIP: 21 RANGE: 03 SECTION: 35
 DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933
 PARCEL: 5000350013 DRAWING SCALE: 1/8" = 1'-0"

A1.11

5 OF 18

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BIRD DETERRENT LEGEND

DESCRIPTION	SYMBOL AND TEXT
BIRD DETERRENT SYSTEM	
(E) ROOF POST*	
ROOF POST*	
PARAPET MOUNTED POST*	
PARAPET BIRD SPIKES	
(E) WIRES	
WIRES	
* SEE GENERAL NOTE C POLE MOUNTING REQUIREMENTS	

GENERAL NOTES

NOTE

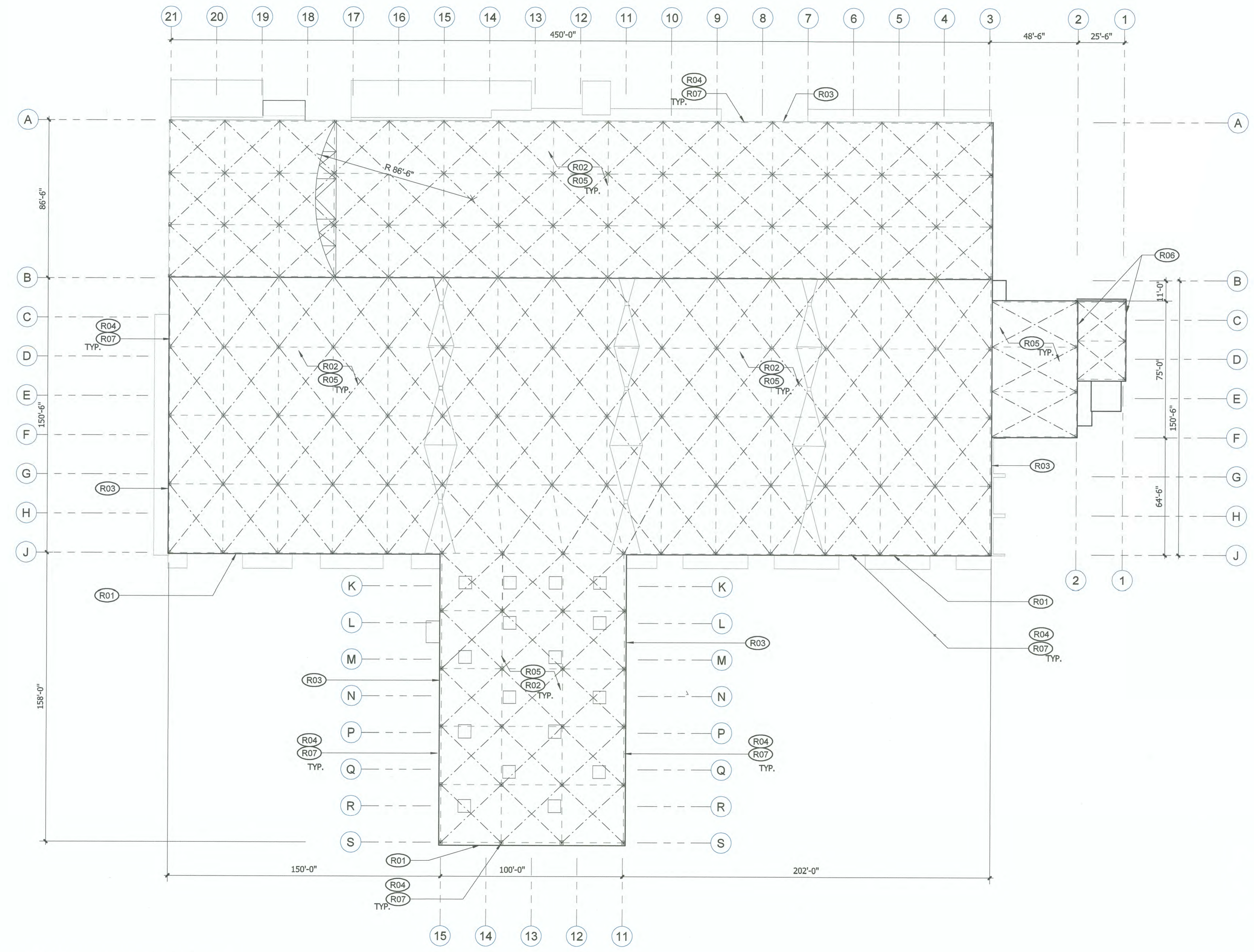
1. ABBREVIATIONS:

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

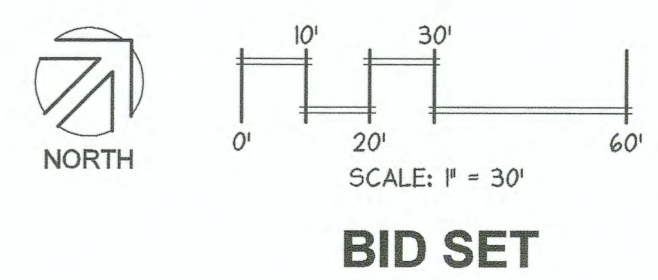
REFER TO SHEET G2.10 FOR STANDARD ABBREVIATIONS LIST.

ROOF PLAN NOTES

SYMBOL	NOTE
(R01)	PROVIDE BIRD SPIKES ON PERIMETER PARAPET WALLS.
(R02)	EXISTING POLES AND WIRE GRID BETWEEN POLES TO REMAIN.
(R03)	EXISTING BIRD SPIKES AT GUTTERS TO REMAIN.
(R04)	PROVIDE HORIZONTAL WIRES AT APPROXIMATELY 18" O.C. VERTICALLY BETWEEN POLES, ALONG PERIMETER ROOF, TYPICAL. BOTTOM WIRE SHALL BE LOCATED 8" ABOVE ROOF.
(R05)	PROVIDE CROSS WIRES DIAGONALLY BETWEEN POLES, TYPICAL IN FIELD OF ROOF.
(R06)	PROVIDE BIRD DETERRENT WIRE APPROXIMATELY 8 INCHES ABOVE EXISTING GUTTERS.
(R07)	PROVIDE POLES AND WIRE GRID ALONG ROOF PERIMETER, TYPICAL, AND CONNECT TO EXISTING SYSTEM. FASTEN BASE PLATE TO OUTSIDE FACE PARAPET WALL OR FASCIA.



ROOF PLAN - BLDG 407
 1" = 30'-0"



Port of Tacoma
 P.O. BOX 1887 TACOMA, WA 98401 (253)388-9841

DATE: _____
 APPR: _____

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

BY: _____
 REVISION: _____

12.10.18
 CHECKED BY DATE

PROJ. ENGR. DATE
 PRINTED BY: Will S.

PORT ADDRESS: 401 ALEXANDER AVENUE,
 TACOMA WA 98421

EBC BLDG 326 HVAC & ROOF REPLACEMENT & BLDGS 407 & 532 BIRD WIRE
 ROOF PLAN - B407

SECTION: 35
 RANGE: 03
 TOWNSHIP: 21
 DAT-HRZ: WA83-SF
 VERT: MLLW 19.39' @ Tide 22 1933
 PARCEL: 5000350013
 DRAWING SCALE: As Indicated

A1.20
 6 OF 18

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