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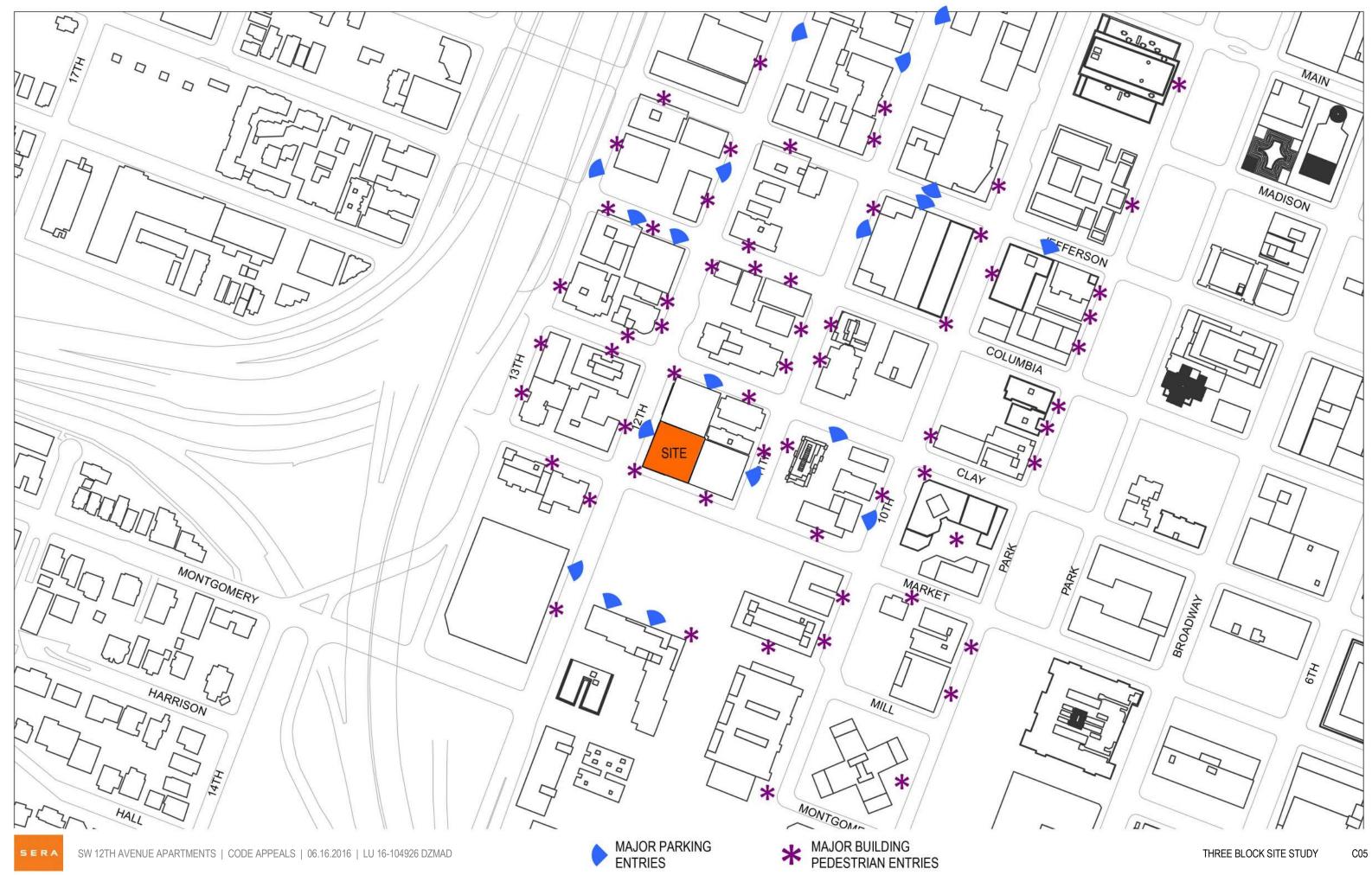


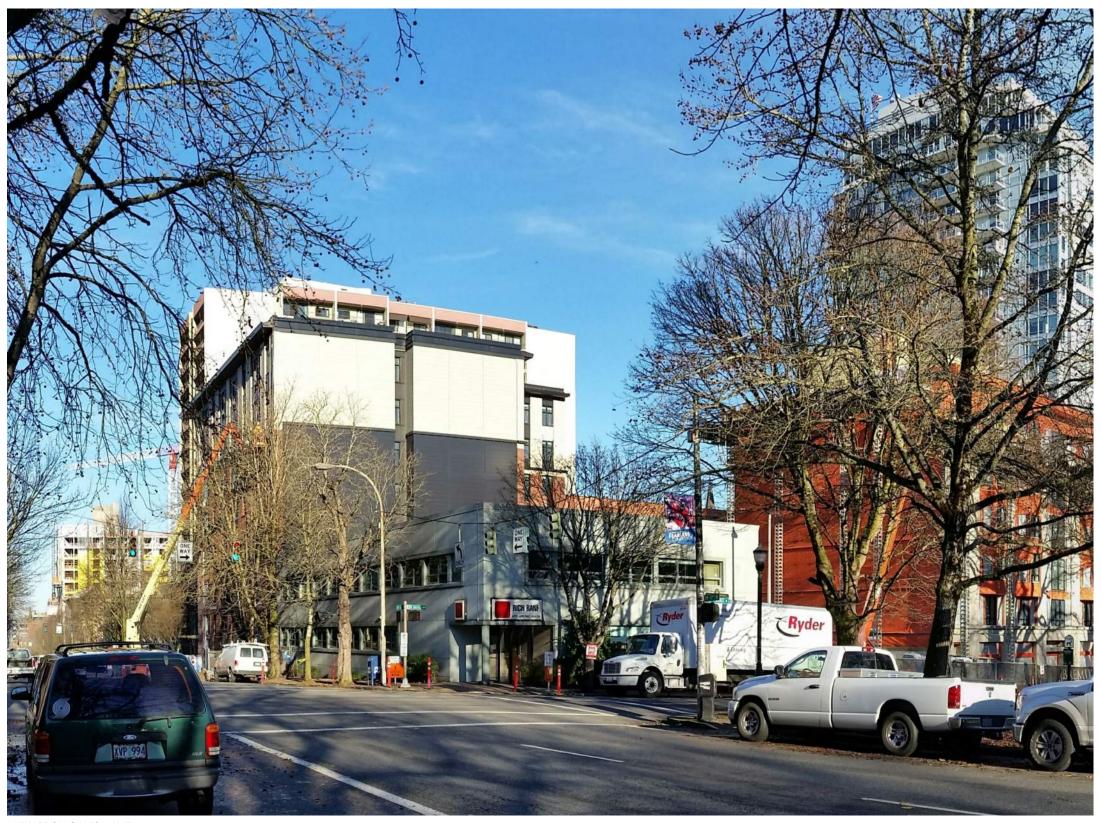






VICINITY PLAN





VIEW FROM SW 12th AVE





12th AVENUE TERRACE



CLAY TOWER APARTMENTS





BENSON TOWER



HAMILTON WEST APARTMENTS



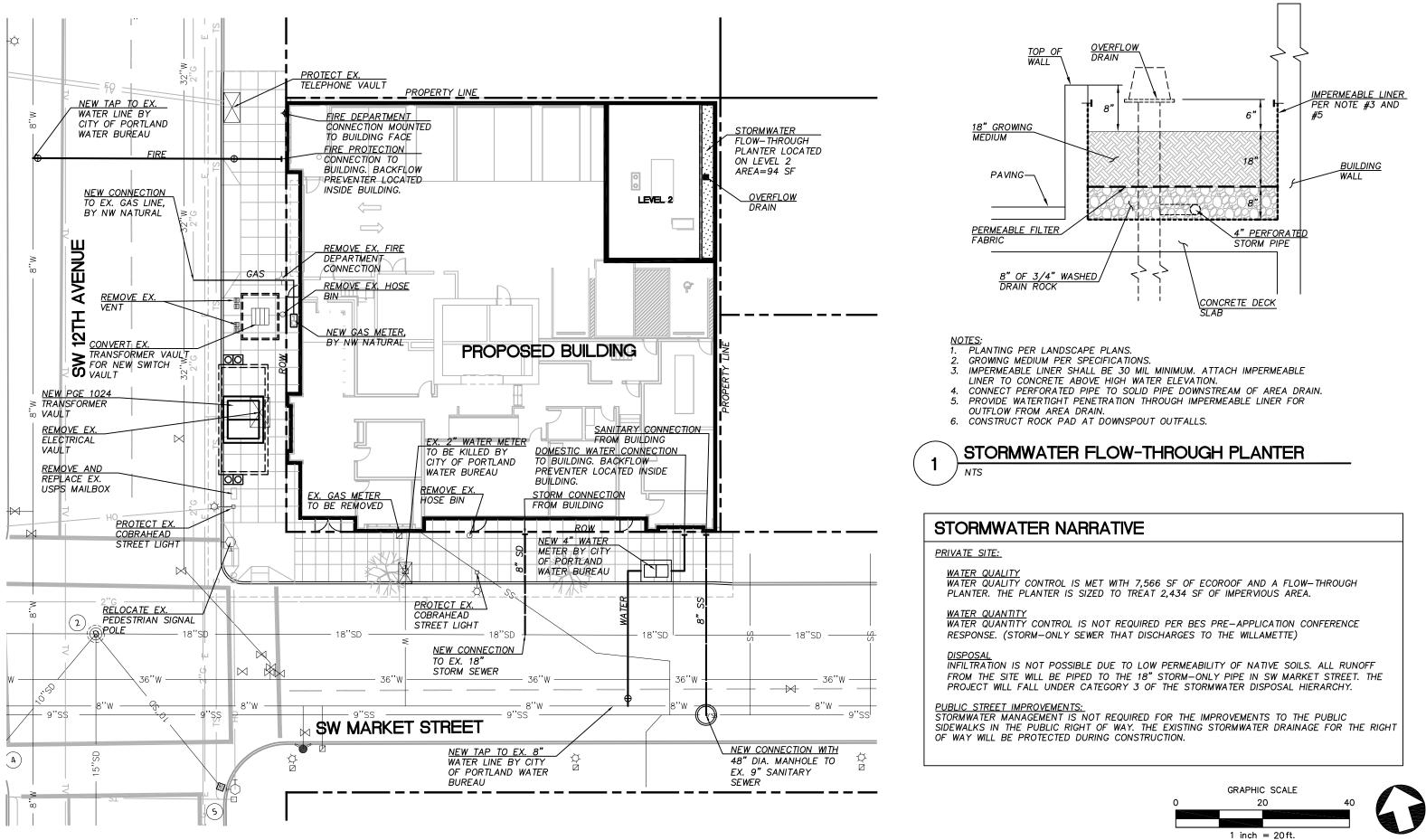
CLAY APARTMENTS



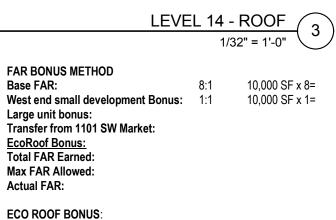
HELEN GORDON DEVELOPMENT CENTER











This project proposes 6,890 SF of eco roof. The total roof area is 9,795 SF. The eco roof comprises 70% of the total roof area (see roof plan). Per 33.510.210 C 10 a 3, when the total area of an eco roof is more than 60% of the building footprint, each square foot of eco roof earns 3 SF of additional floor area. 6,890 SF x 3= 20,670 SF bonus.

E RC

LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5 LEVEL 6 LEVEL 7 LEVEL 8 LEVEL 8 LEVEL 9	9,414 SF 8,817 SF 8,817 SF 8,817 SF 8,817 SF 8,817 SF 8,817 SF 8,817 SF 8,817 SF 8,817 SF	
LEVEL 10 LEVEL 11	8,817 SF 8,817 SF	
LEVEL 12 LEVEL 13	8,817 SF 8,817 SF	
LEVEL 14	4,454 SF	
TOTAL	119,672 SF	

BASE ALLOWABLE FAR = 9:1 (90,000 SF) BONUSES ALLOWED = 3:1 (30,000 SF) TOTAL ALLOWABLE FAR = 12:1 (120,000 SF)

80,000 SF 10,000 SF 840 SF 10,000 SF <u>20,670 SF</u> 121,510 SF (12:1) 120,000 SF (12:1) 119,672 SF (11.9:1)



TYPICAL STALL

LOADING 9X18

ACCESSIBLE STALL





MECHANICAL EQUIPMENT

ECO ROOF

ROOF ACCESS HATCH

STORMWATER PLANTER

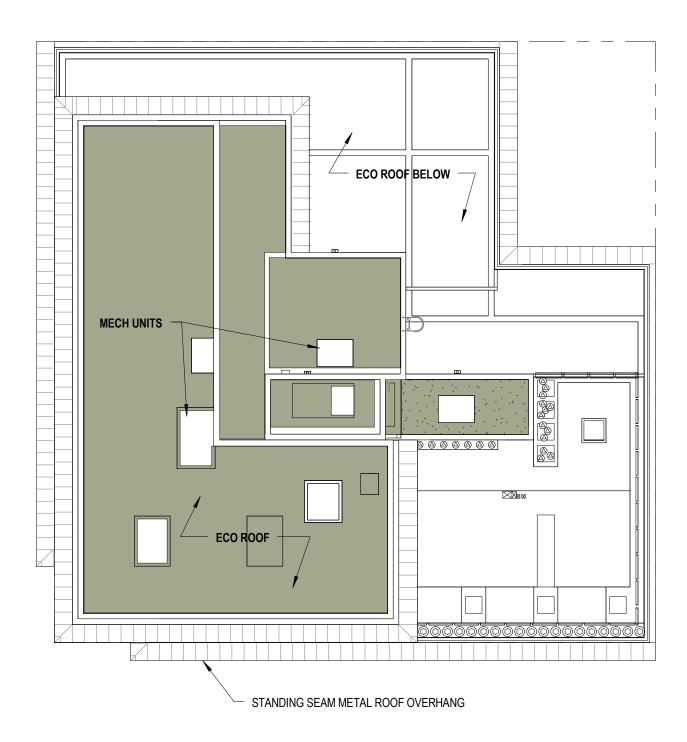


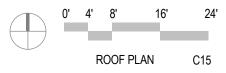












FURNITURE CHARACTER

FIRE TABLE



WOOD TILE PAVING



PLANTERS SET IN COBBLE



CONC PAVERS



S DAY S warmin and the second A CONTRACTOR Sa St MOVABLE TABLES + BENCHES 3' X 3' PLANTERS



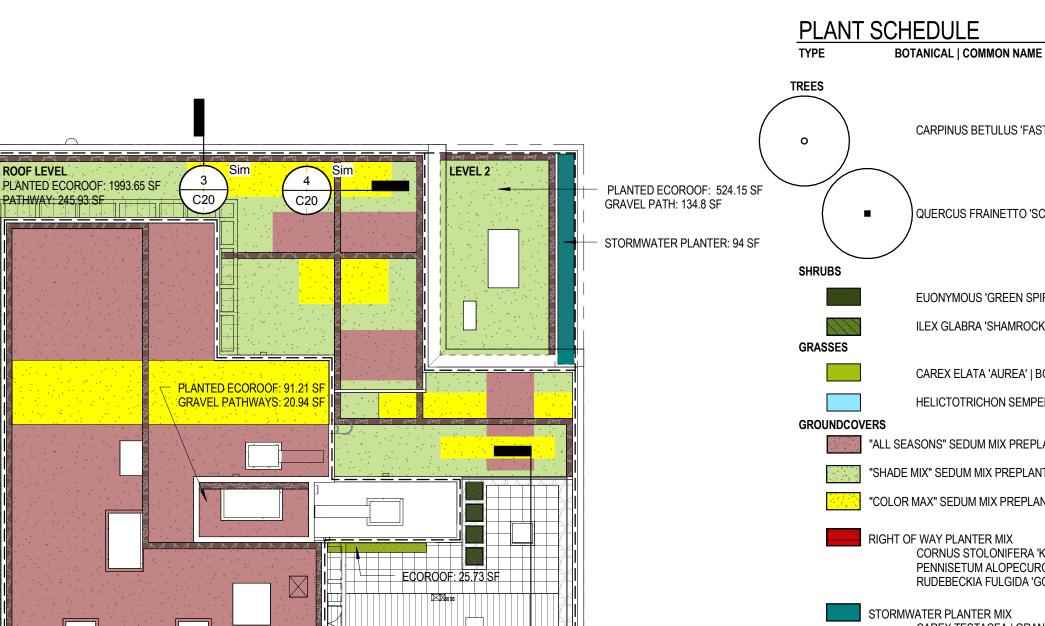
LANDSCAPE ROOF TERRACE

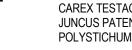
0' 2' 4'

C16

12'

- 8'





CITY OF PORTLAND ECO-ROOF FAR BO

1. TOTAL BUILDING FOOTPRINT: 9795 s (w/o mechanical pads: 9453 sf)

2. ECOROOF PLANTING PLAN SQUARE

A. PENTHOUSE ROOF PLANT **B. PENTHOUSE ROOF PATHW**

C. ROOF LEVEL PLANTED EC D. ROOF LEVEL PATHWAYS:

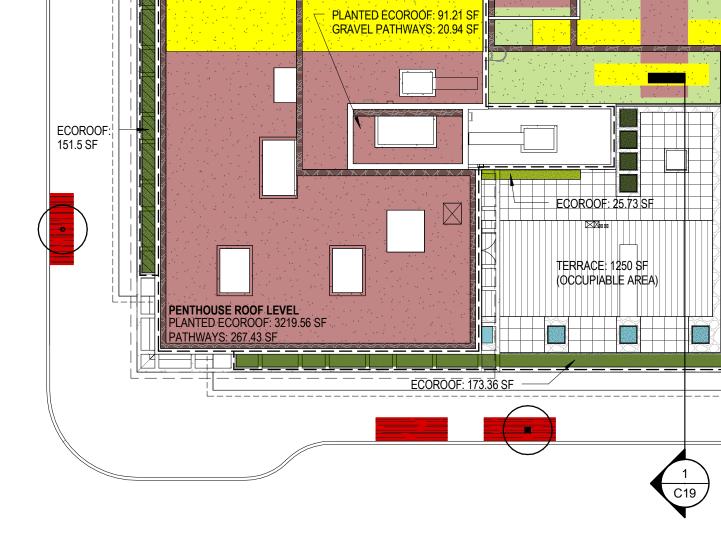
E. LEVEL 2 PLANTED ECORO F. LEVEL 2 PATHWAYS:

3. TOTAL ECOROOF:

4. TOTAL PATHWAYS:

5. %PATHWAYS:

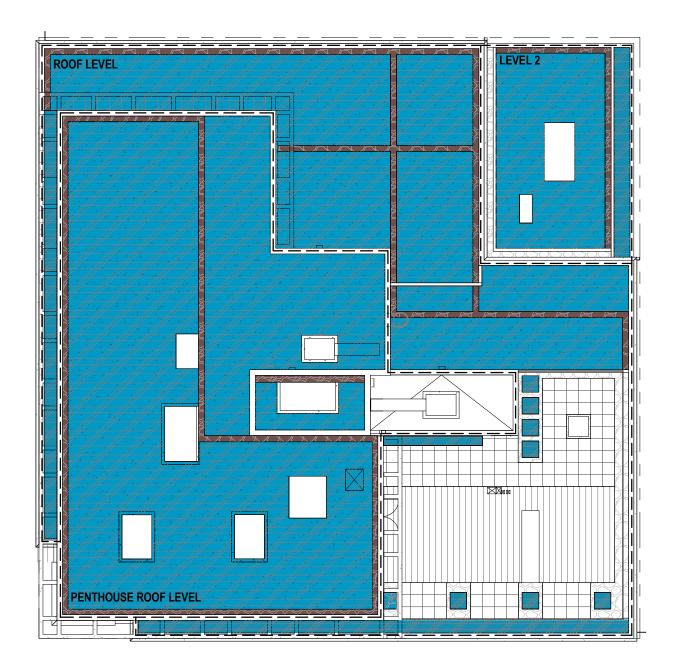
6. STORMWATER PLANTER:

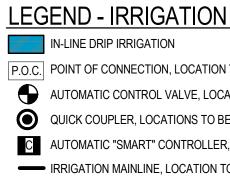


ROOF LEVEL

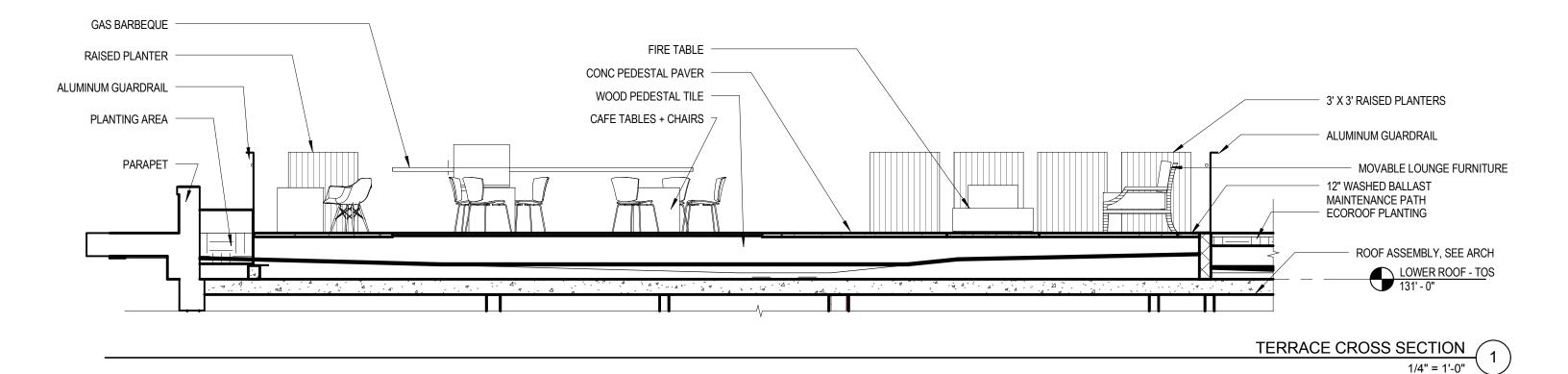
SIZE

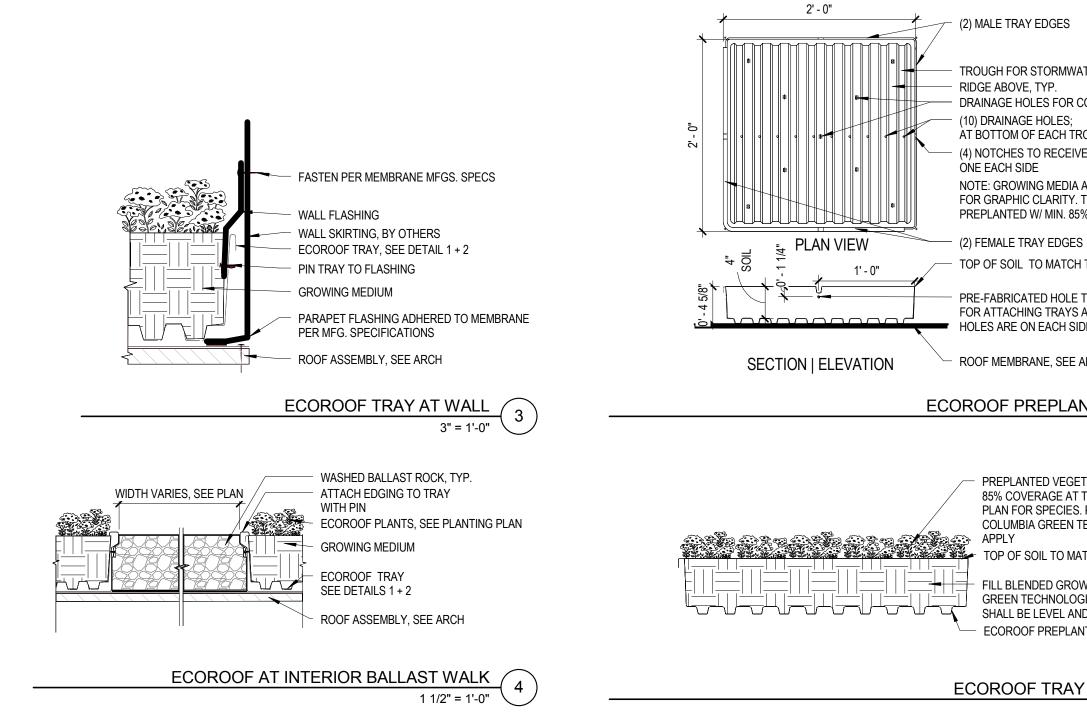
TULUS 'FASTIGIATA	' PYRAMIDAL EURC	PEAN HOF	RNBEAN	Л	3.5" C	AL.	
AINETTO 'SCHMIDT'	FOREST GREEN O	AK			3.5" C	AL.	
'GREEN SPIRE' GR	EEN SPIRE EUONYM	IOUS			3 GAL		
'SHAMROCK' SHAM	IROCK INKBERRY				5 GAL.		
A 'AUREA' BOWLES	GOLDEN SEDGE				1 GAL		
HON SEMPERVIREN	S BLUE OAT GRAS	S			1 GAL		
MIX PREPLANTED	TRAY ECOROOF BY	COLUMBIA	GREEM	٨	NONE	Ξ	
IX PREPLANTED TRA	AY ECOROOF BY CO	LUMBIA GF	REEN		NONE	Ξ	
MIX PREPLANTED TR	AYECOROOF BY CC)LUMBIA GI	REEN		NONE	Ē	
ER MIX DLONIFERA 'KELSEYI ALOPECUROIDES 'H FULGIDA 'GOLDSTR	AMELN' DWARF FO	DUNTAIN G	RASS		3 GA 1 GA 1 GA	L.	
ER MIX ACEA ORANGE SED ENS SPREADING RU M MUNITUM SWORI	JSH				1 GA 1 GA 1 GA	L.	
BONUS INFO:							
sf							
E FOOTAGE BREAK	DOWN:						
TED ECOROOF: IWAYS:	3310.77 sf 288.37 sf						
COROOF: :	2344.24 sf 245.93 sf						
OOF:	524.15 sf 134.8 sf						
	6848.26 sf						
	669.1 sf						
	9.7%		0' 4	' 8'		16'	24'
	94 sf	LANDSCA	APE PL/	ANTIN	G PLAN	N	C17





P.O.C. POINT OF CONNECTION, LOCATION TO BE DETERMINED AUTOMATIC CONTROL VALVE, LOCATION TO BE DETERMINED QUICK COUPLER, LOCATIONS TO BE DETERMINED C AUTOMATIC "SMART" CONTROLLER, LOCATION TO BE DETERMINED IRRIGATION MAINLINE, LOCATION TO BE DETERMINED





TROUGH FOR STORMWATER DETENTION, TYP. DRAINAGE HOLES FOR CONSISTENT WATER METERING AT BOTTOM OF EACH TROUGH (4) NOTCHES TO RECEIVE IRRIGATION LINE; NOTE: GROWING MEDIA AND VEGETATION NOT SHOWN FOR GRAPHIC CLARITY. TRAYS ARE DELIVERED PREPLANTED W/ MIN. 85% COVERAGE.

TOP OF SOIL TO MATCH TOP OF TRAY

PRE-FABRICATED HOLE TO RECEIVE PIN FOR ATTACHING TRAYS AND EDGER/FLASHING. HOLES ARE ON EACH SIDE OF TRAY

ROOF MEMBRANE, SEE ARCH

ECOROOF PREPLANTED TRAY DETAIL 1 1" = 1'-0"

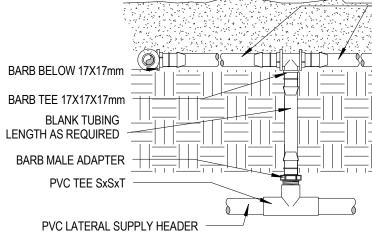
PREPLANTED VEGETATION SHALL MEET OR EXCEED 85% COVERAGE AT TIME OF DELIVERY. SEE PLANTING PLAN FOR SPECIES. PLANTS SHALL BE SOURCED BY COLUMBIA GREEN TECHNOLOGIES FOR WARRANTY TO

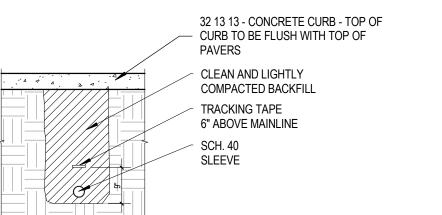
TOP OF SOIL TO MATCH TOP OF TRAY

FILL BLENDED GROWING MEDIA, SOURCED BY COLUMBIA GREEN TECHNOLOGIES FOR WARRANTY TO APPLY. MEDIA SHALL BE LEVEL AND EVENLY COMPACTED. ECOROOF PREPLANTED TRAY, SEE DETAIL 1

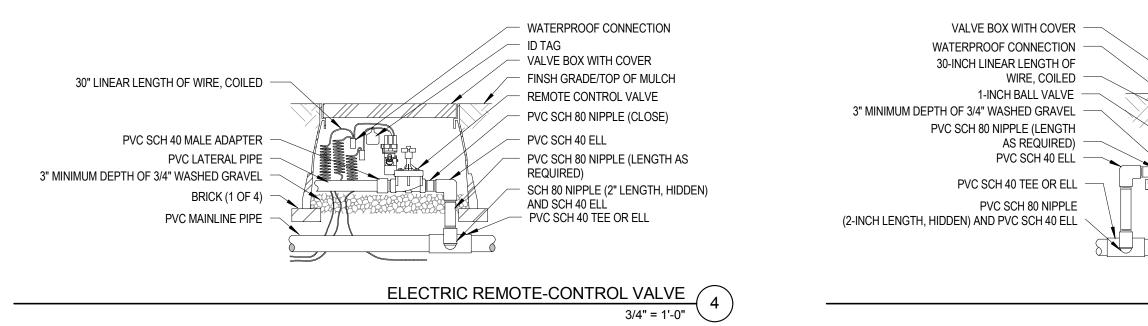
ECOROOF TRAY PLANTING DETAIL 2

1 1/2" = 1'-0"









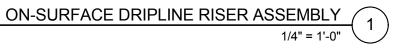
FINISH GRADE

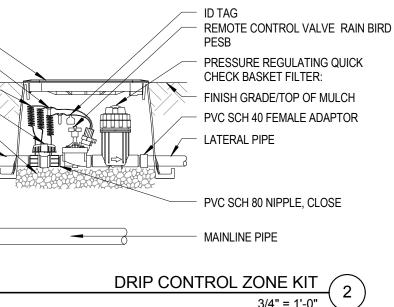
2" - 4" MULCH ON-SURFACE DRIPLINE INLINE DRIP EMITTER OUTLET, SEE PLANS FOR DRIPLINE OUTLET SPACING BARB COUPLING 17X17mm

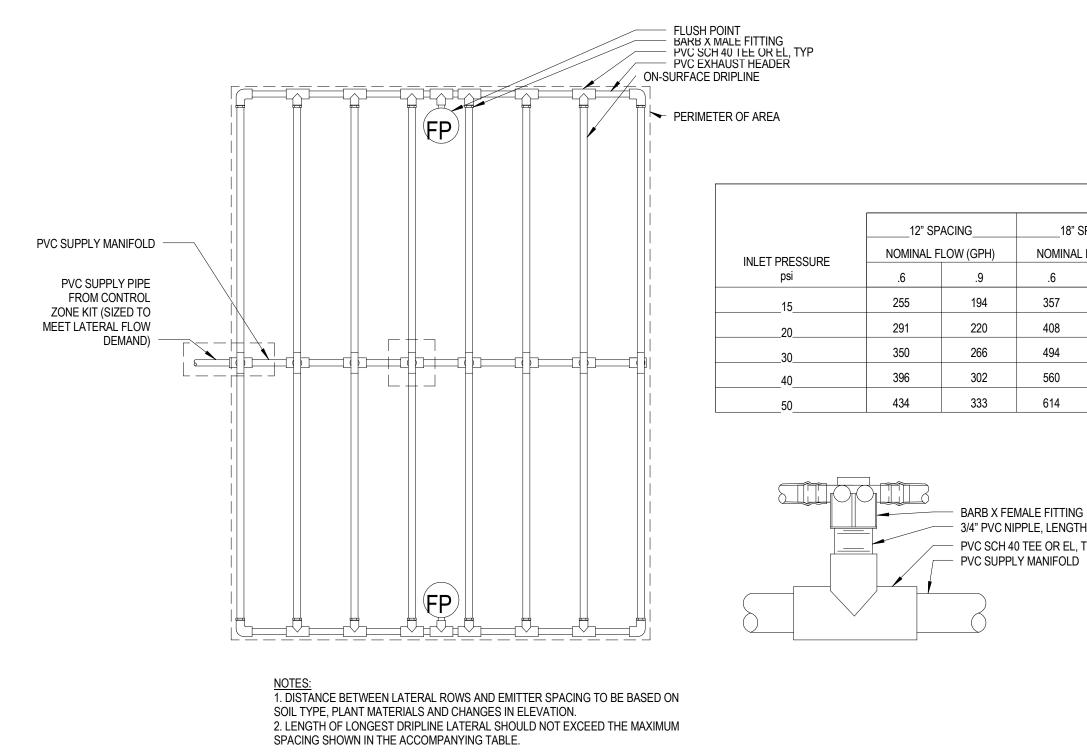
TIE DOWN STAKE

NOTES

1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY 2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.







SERA SW 12TH AVENUE APARTMENTS | CODE APPEALS | 06.16.2016 | LU 16-104926 DZMAD

18" SP	ACING	24" SPACING		
NOMINAL F	LOW (GPH)	NOMINAL F	LOW (GPH)	
.6	.9	.6	.9	
357	273	448	343	
408	313	514	394	
494	378	622	478	
560	428	705	541	
614	470	775	594	

3/4" PVC NIPPLE, LENGTH AS NECESSARY PVC SCH 40 TEE OR EL, TYP

DR - DRIPLINE CENTER + FEED LAYOUT 3/8" = 1'-0"

ECOROOF OPERATIONS AND MAINTENANCE MANUAL

Ecoroofs are vegetative systems that retain and filter stormwater and provide aesthetic and energy conservation benefits. The Extensive Ecoroof filters stormwater with a plant palette composed primarily of sedum plants.

Soil medium, vegetation, irrigation and drains shall be inspected for proper operations throughout the life of the ecoroof. All elements shall be inspected annually. Facilities personnel shall keep a log, recording all inspection dates, observations, and maintenance activities. Work orders and invoices shall be kept on file and made available to City inspector upon request. The following items shall be inspected and maintained as stated:

Soil Substrate / Growing Medium shall sustain healthy plant cover and infiltrate within 48 hours

•Growing medium shall be inspected for evidence of erosion from wind, water and settlement. If erosion channels are evident, they shall be stabilized with additional soil substrate/growth medium and covered with additional plants. All depressions as the result of maintenance foot traffic activity, settlement, etc. shall be filled flush with adjacent medium. Plant mortality as a result of foot traffic shall be replaced immediately. Bare soil shall be planted per the planting design. Soil shall drain within 48 hours.

Ecoroof System shall be operated and maintained in accordance with manufacturer's requirements. Drain inlets shall be kept unrestricted ·Inlet pipe shall be cleared when soil substrate, vegetation, debris, litter or other materials clog the drain inlet. Sources of sediment and debris shall be identified and corrected.

·Determine if drain inlet pipe is in good condition and correct as needed.

·Contact membrane manufacturer if tears or perforations are found in the membrane.

Vegetation shall be maintained to provide 95% plant cover.

•During the Establishment Period, dead or damaged plants shall be replaced by contractor once per month as needed until expiration of warranty after which the Owner or building facilities shall be responsible for maintenance. During the LongTerm Period, dead plants shall generally be replaced once per year in the fall months.

Fallen leaves and debris from deciduous plant foliage shall be removed.

·Nuisance and prohibited vegetation from the Portland Plant List shall be removed when discovered.

Weeding shall be manual with no herbicides or pesticides used. Weeds shall be removed regularly and not allowed to late.

accumulate.

•Vegetation must cover at least 90% of the facility at maturity. Plants should be replanted from the original planting plan or can be substituted from the plant list in the SWMM.

Irrigation of Extensive Ecoroof

•During the Establishment Period (2 years), the irrigation timer shall be set to assure plant establishment at a rate of .25 inch every 14th day during the months of June and September (warm periods) and .25 inch every seventh day during July and August (hot dry periods).

•During Long-Term Period (after 2 full years), water at a rate of .25 inch every 14th day during the months of July and August to maintain plant cover. Irrigation at the same rate may be used during the months of May, June, September, and October only as needed. No irrigation is allowed from the beginning of November through the end of April.

·Irrigation watering times shall be modified as needed to accommodate fluctuations in dry and wet periods with the exception that at no time shall the irrigation exceed .5 inches per ten days. Accurate monitoring and assessment of temperature and rainfall shall dictate schedule and watering lengths. Automatic rain shut off valves are to be inspected and any debris removed during irrigation regime. Spill prevention measures from mechanical systems located on roof shall be exercised when handling substances that can contaminate stormwater

 ·Release if pollutants shall be corrected as soon as identified.
 ·Best management practices shall be implemented to prevent hazardous wastes from contaminating
 stormwater.

 Record time, date, weather and site conditions when site activities contaminate
 stormwater.

Training and/or written guidance information

•A copy of O&M Plan for maintaining Ecoroofs shall be provided to the Owner's maintenance personnel for reference. Building facilities / maintenance personnel shall receive instruction as to needs and regular schedules for properly maintaining the health and vigor of the ecoroof plantings and associated drainage surface.

Access and Safety to the Ecoroof

No tenant circulation or egress routes are proposed or allowed on extensive ecoroof areas. Maintenance personnel shall access roof via utility access points and tie into safety points as needed when inspecting or maintaining perimeter areas that pose a safety concern.

Aesthetics of the Ecoroof shall be maintained as an asset to the property owner and community ·Evidence of damage or vandalism shall be repaired and accumulation of trash debris shall be removed upon discovery.

Insects shall not be harbored at the Ecoroof

·Standing water creating an environment for development of insect larvae shall be eliminated by manual means. Chemical sprays shall not be used.

Record time, date, weather, and site conditions when insect or rodent activity is observed. Record when insect or rodent activity abated or ended.

Annual Maintenance Schedule:

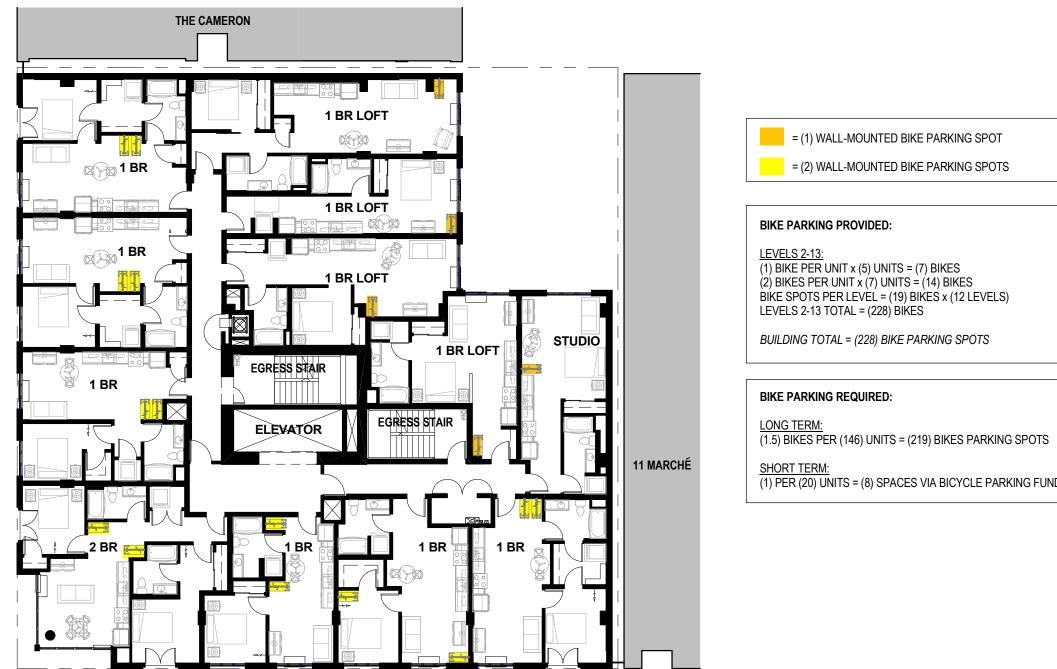
Summer: Make necessary repairs. Improve growing medium as needed. Clear drains. Irrigate as described above.

Fall: Replace exposed soil and dead plants. Remove sediment and debris from drains. Provide erosion controls for base soil if necessary.

Winter: Monitor infiltration/flow rates. Clear drains as needed

Spring: Replant exposed soil and dead plants. Remove sediment and debris from drains.

All Seasons: Weed as necessary.



(1) PER (20) UNITS = (8) SPACES VIA BICYCLE PARKING FUND



CHILEHAUS HAMBERG CHILEHAUS HAMBERG

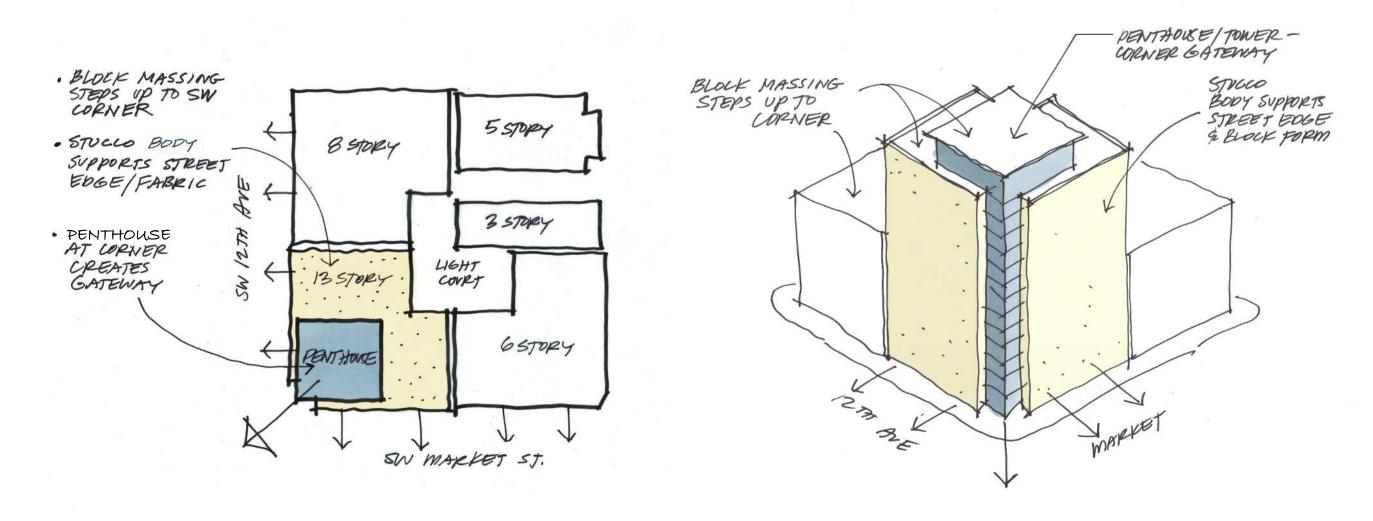




SPALDING BUILDING PORTLAND



WEATHERLY BUILDING PORTLAND



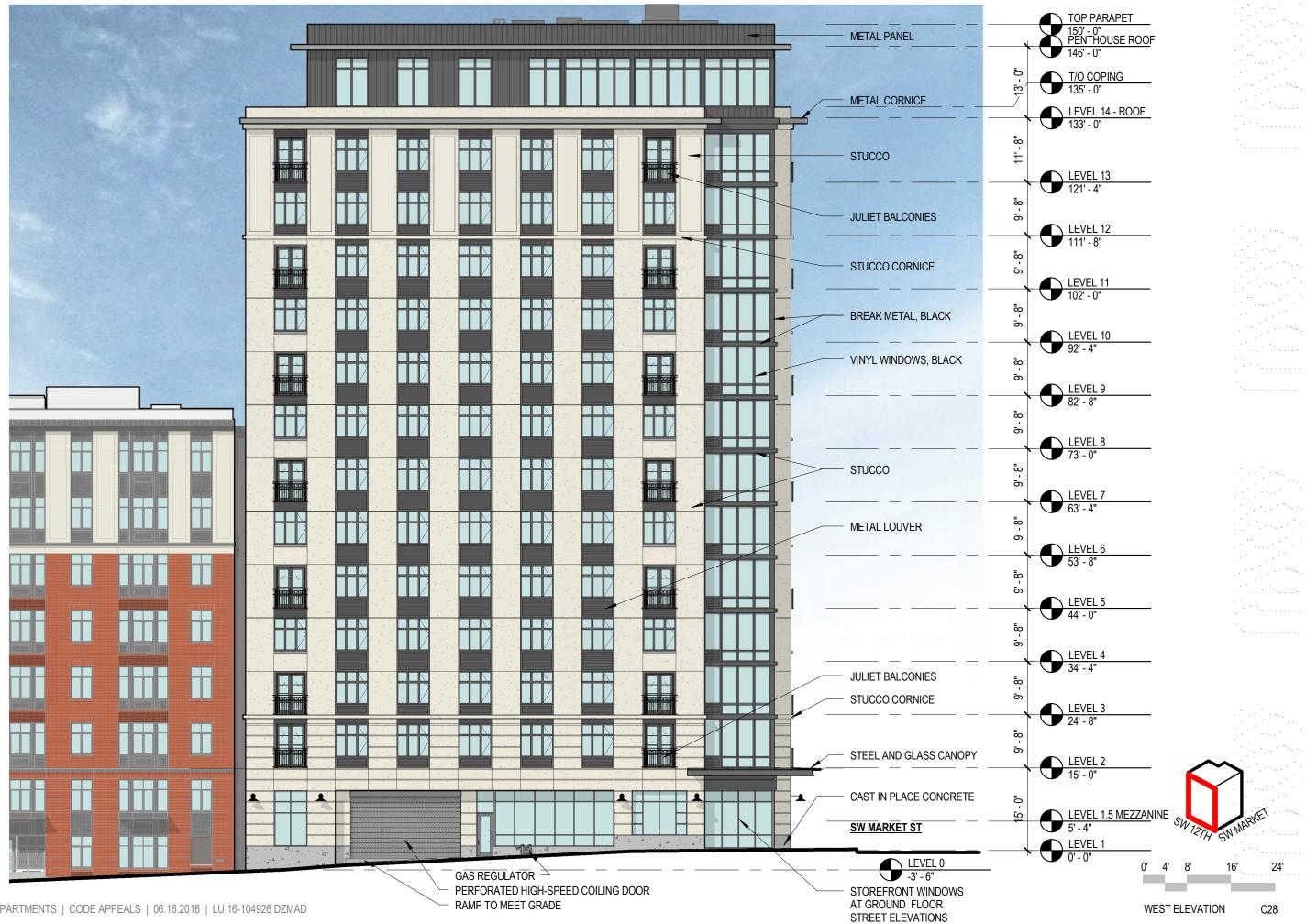
BLOCK MASSING CONCEPT

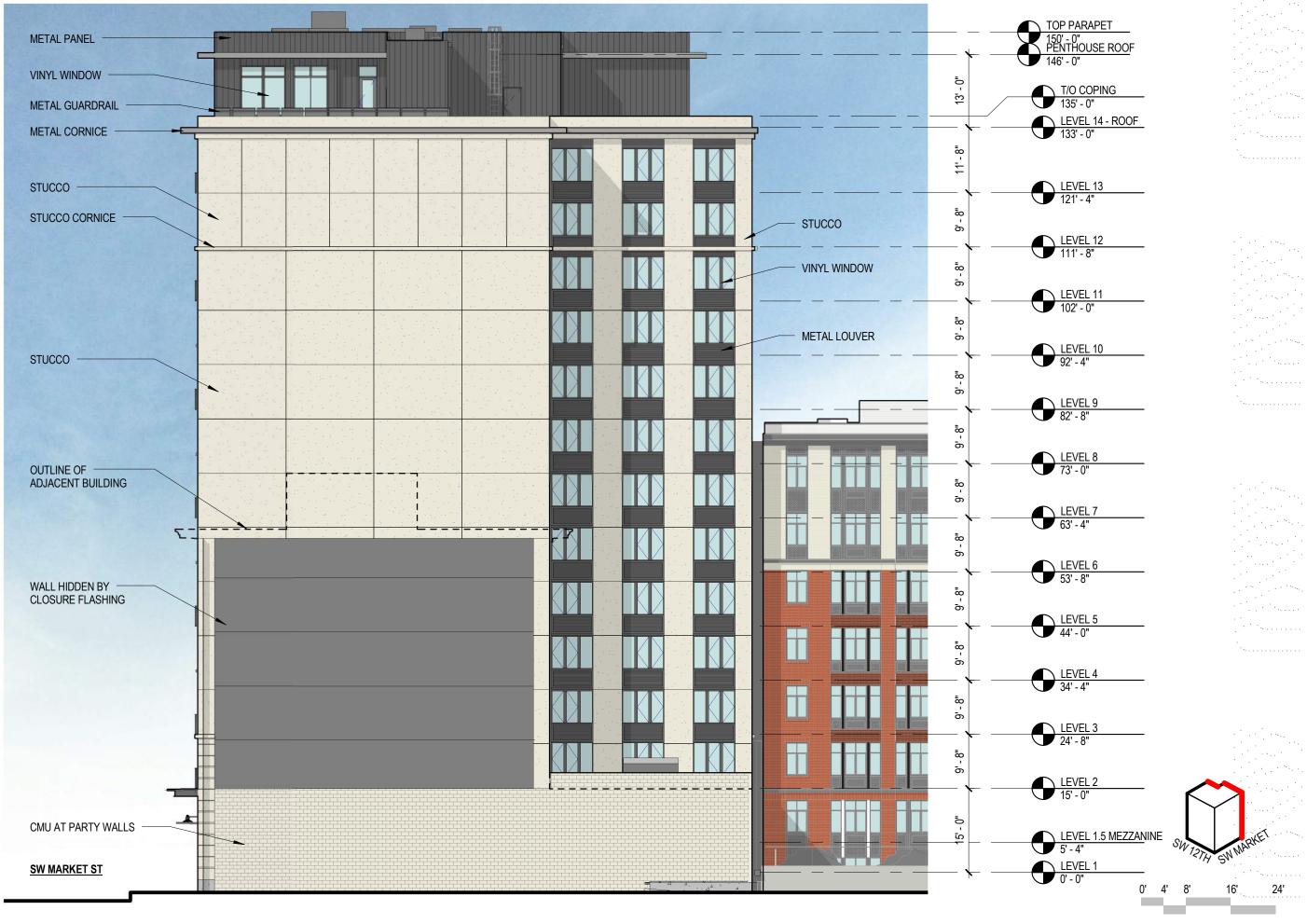
BUILDING MASSING CONCEPT





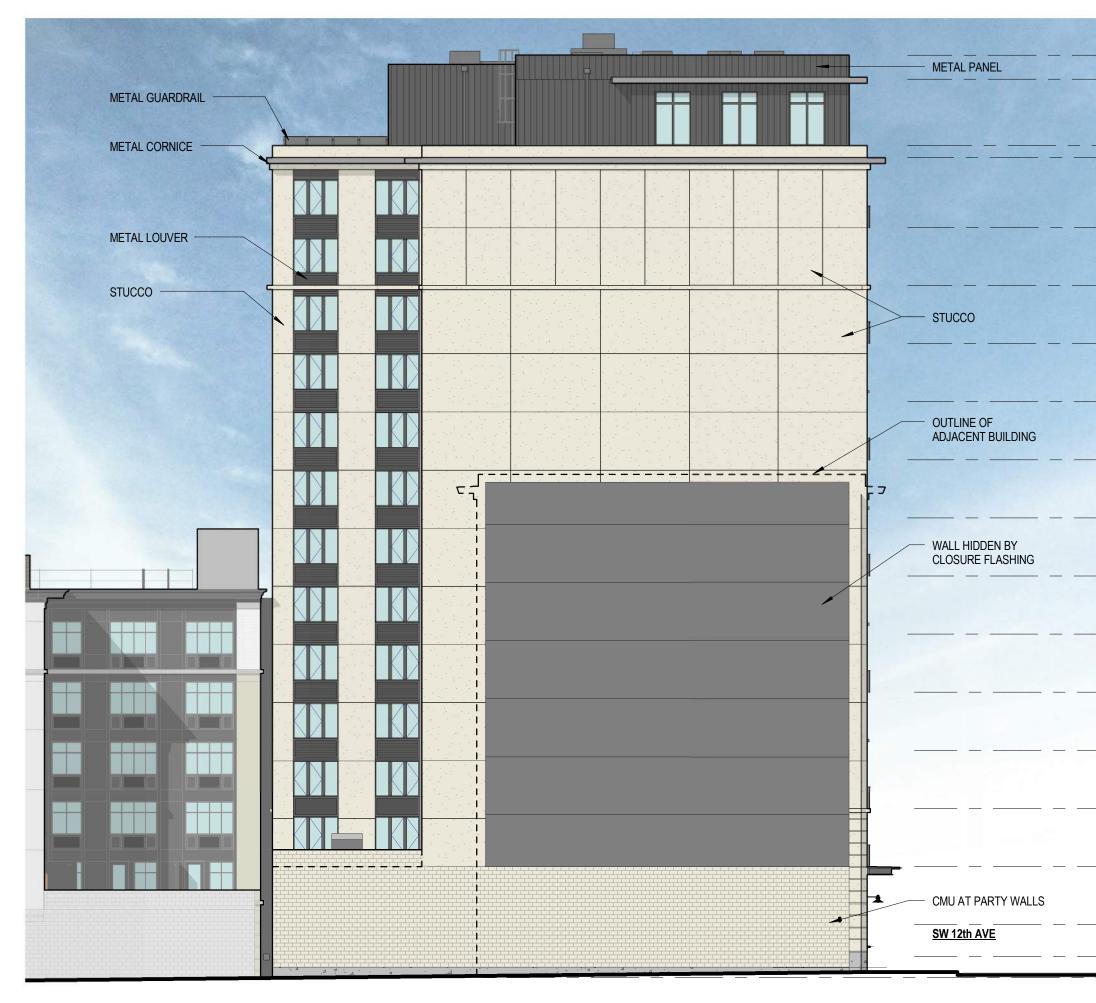


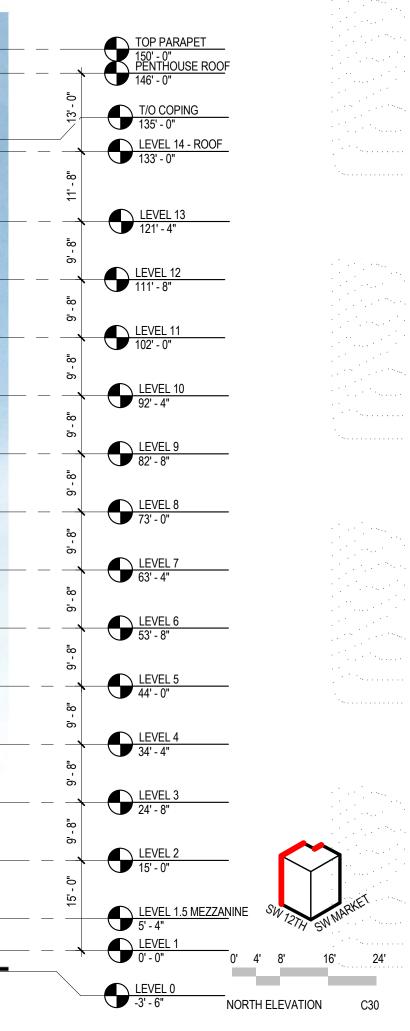




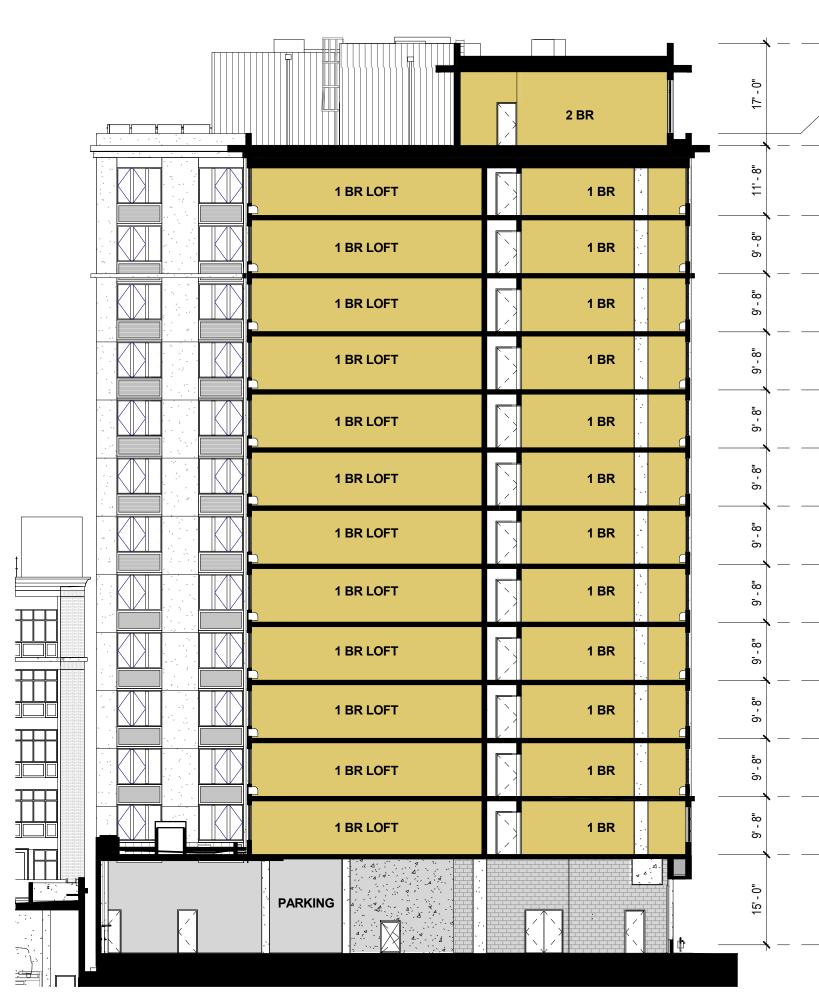


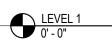






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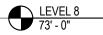
	\square	LEVEL 3
$\overline{\nabla}$		24' - 8"







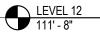




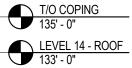


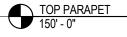


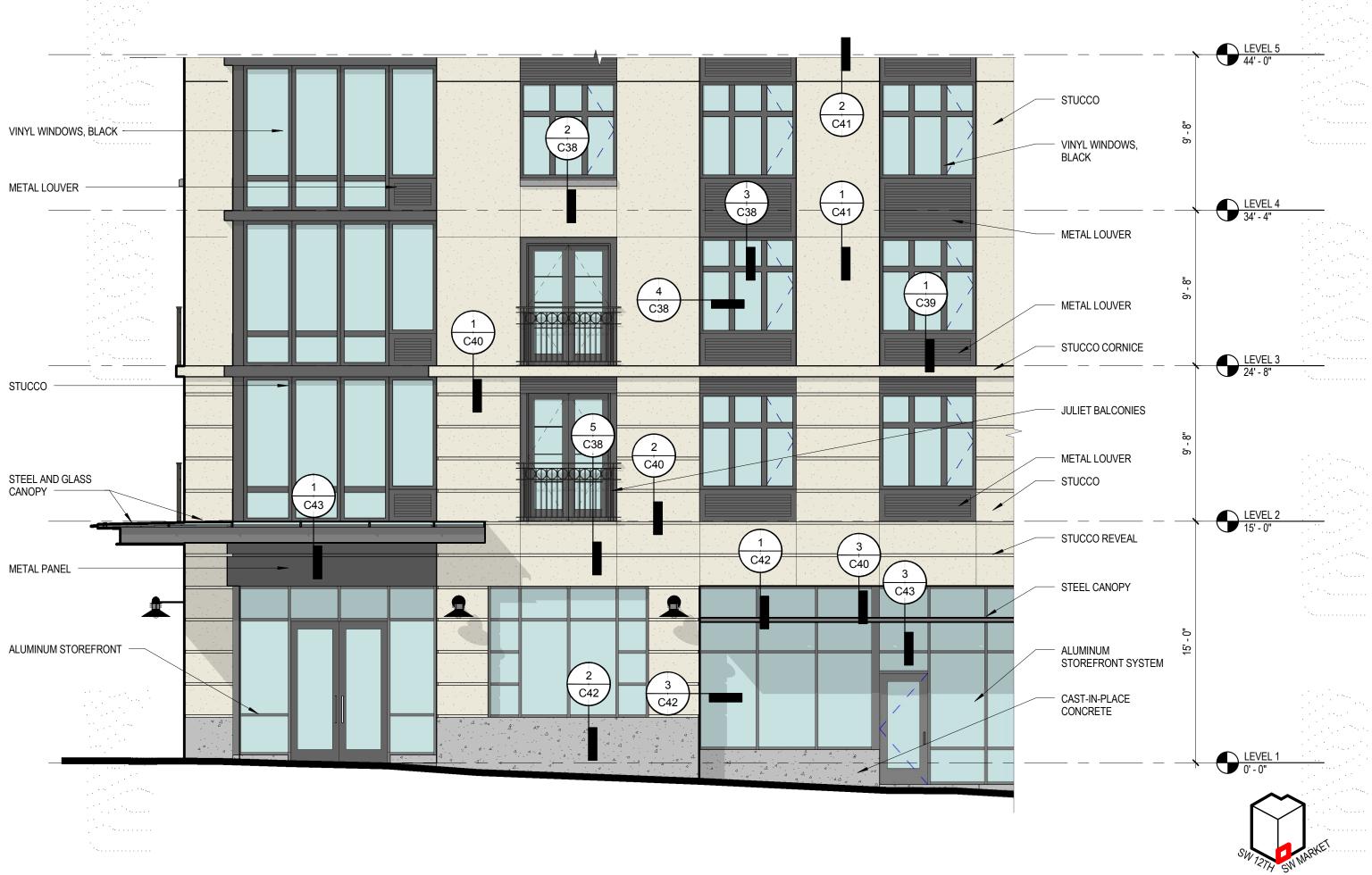






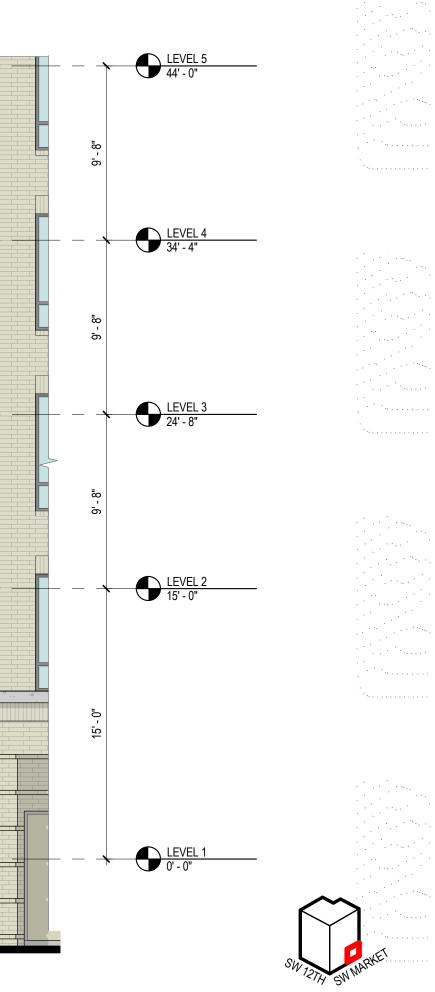




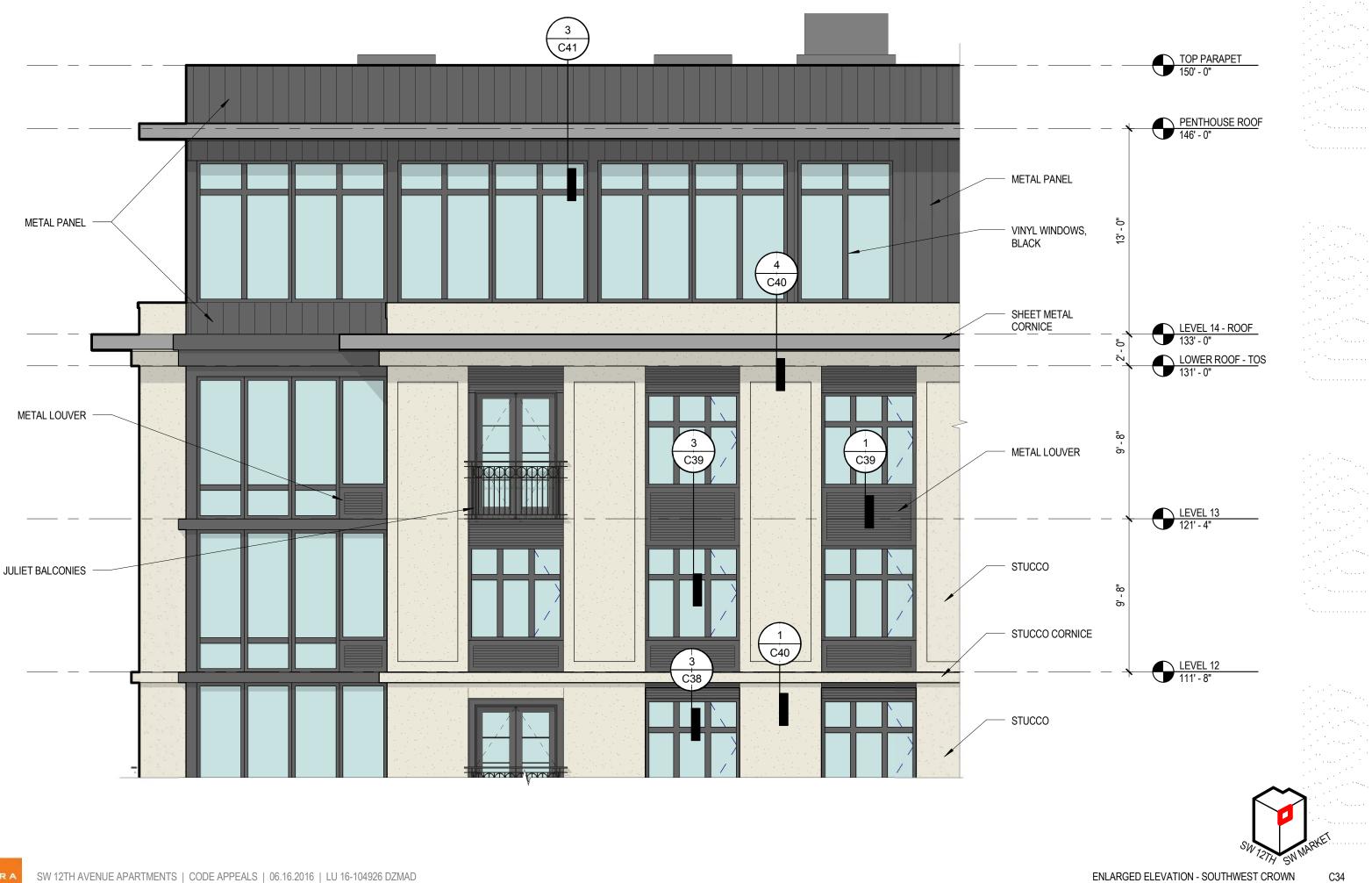


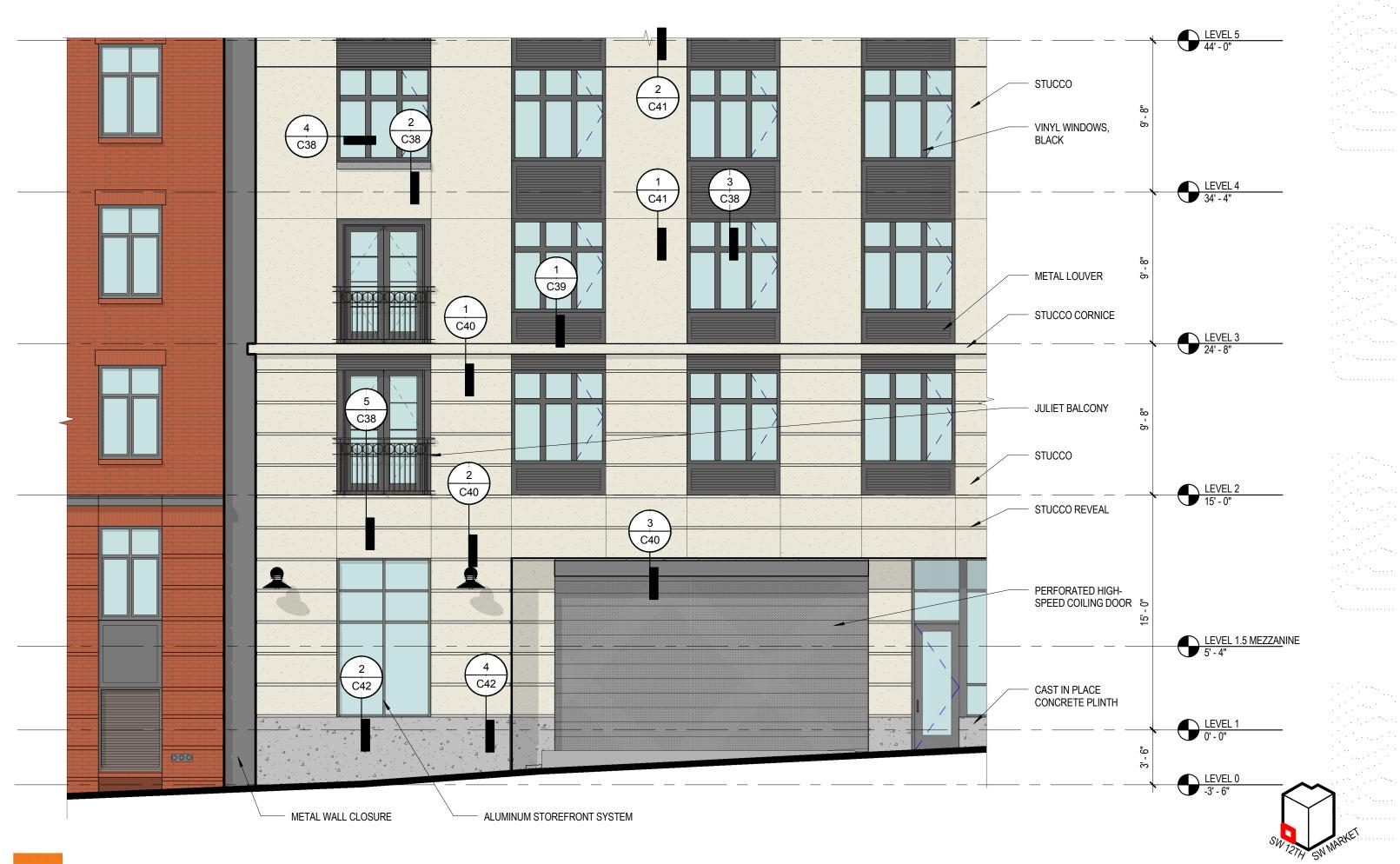
ENLARGED ELEVATION - SOUTHWEST BASE





ENLARGED ELEVATION - SOUTHEAST BASE





ENLARGED ELEVATION - NORTHWEST BASE



ENLARGED ELEVATION - WEST BASE



PERFORATED HIGH-SPEED -COILING DOOR

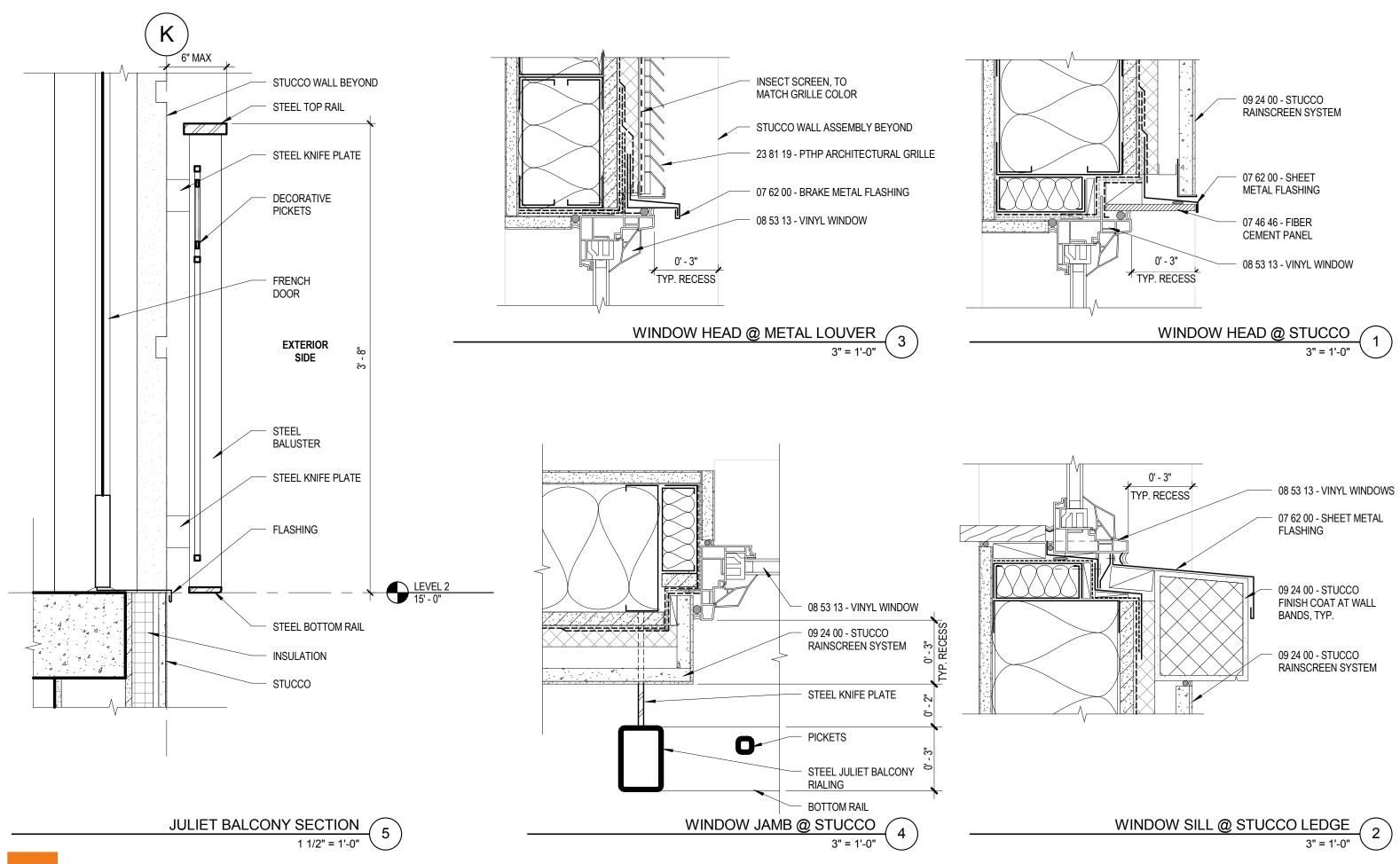


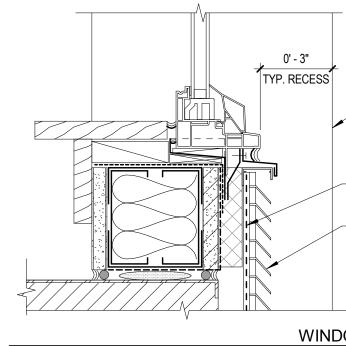


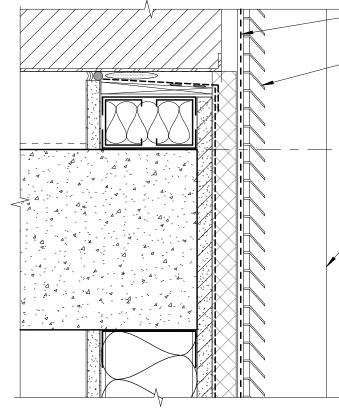
- BLACK VINYL WINDOWS

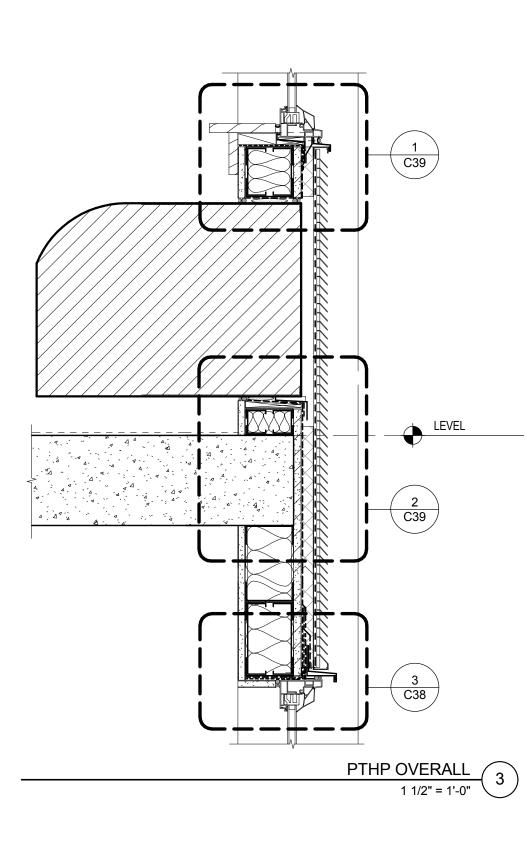
ALUMINUM STOREFRONT GLAZING

GLASS CANOPY









- FACE OF WALL BEYOND

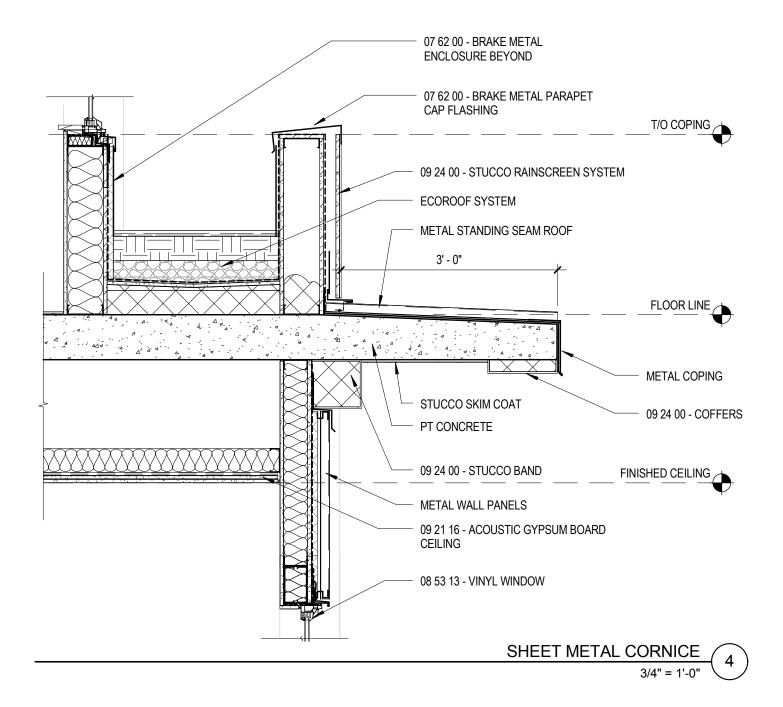
- INSECT SCREEN, TO MATCH GRILLE COLOR
- 23 81 19 PTHP ARCHITECTURAL GRILLE

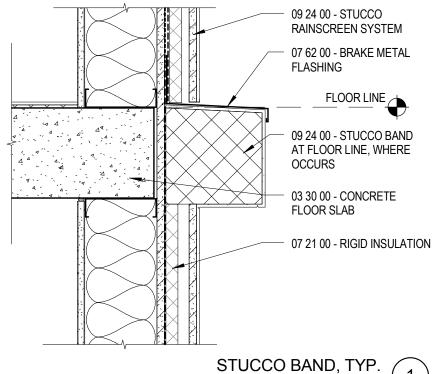
- INSECT SCREEN, TO MATCH GRILLE COLOR
 - 23 81 19 PTHP ARCHITECTURAL GRILLE

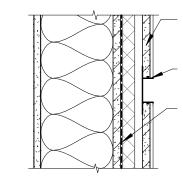


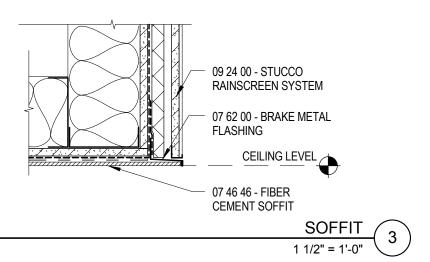
- FACE OF WALL BEYOND

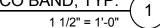
PTHP SILL 2 3" = 1'-0"







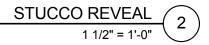




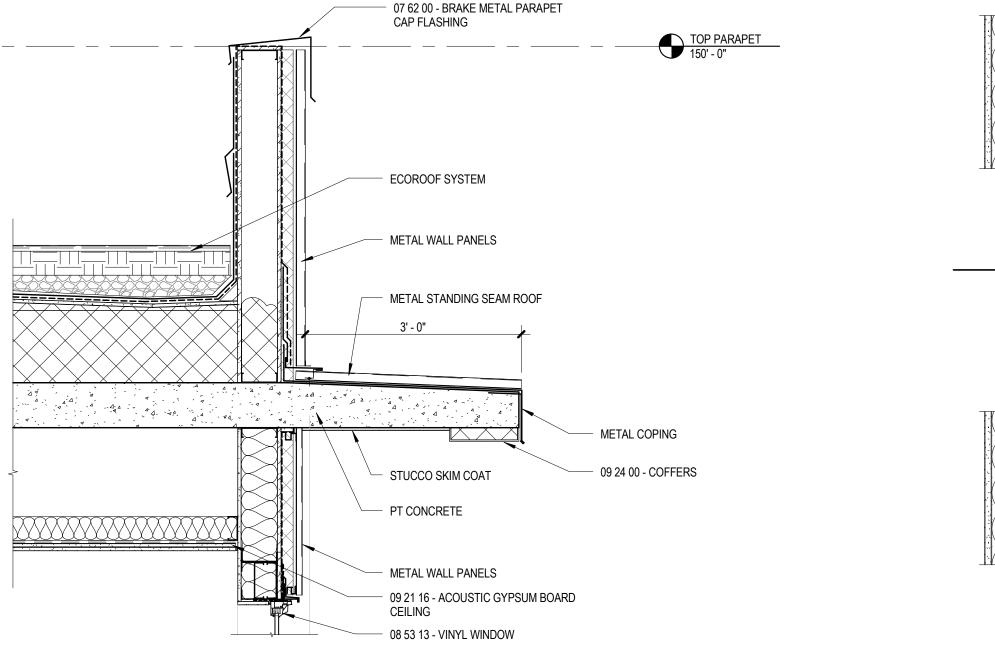
09 24 00 - STUCCO RAINSCREEN SYSTEM

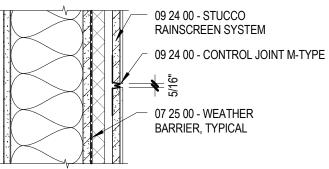
09 24 00 - METAL REVEAL

07 25 00 - WEATHER BARRIER, TYPICAL

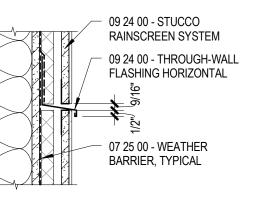




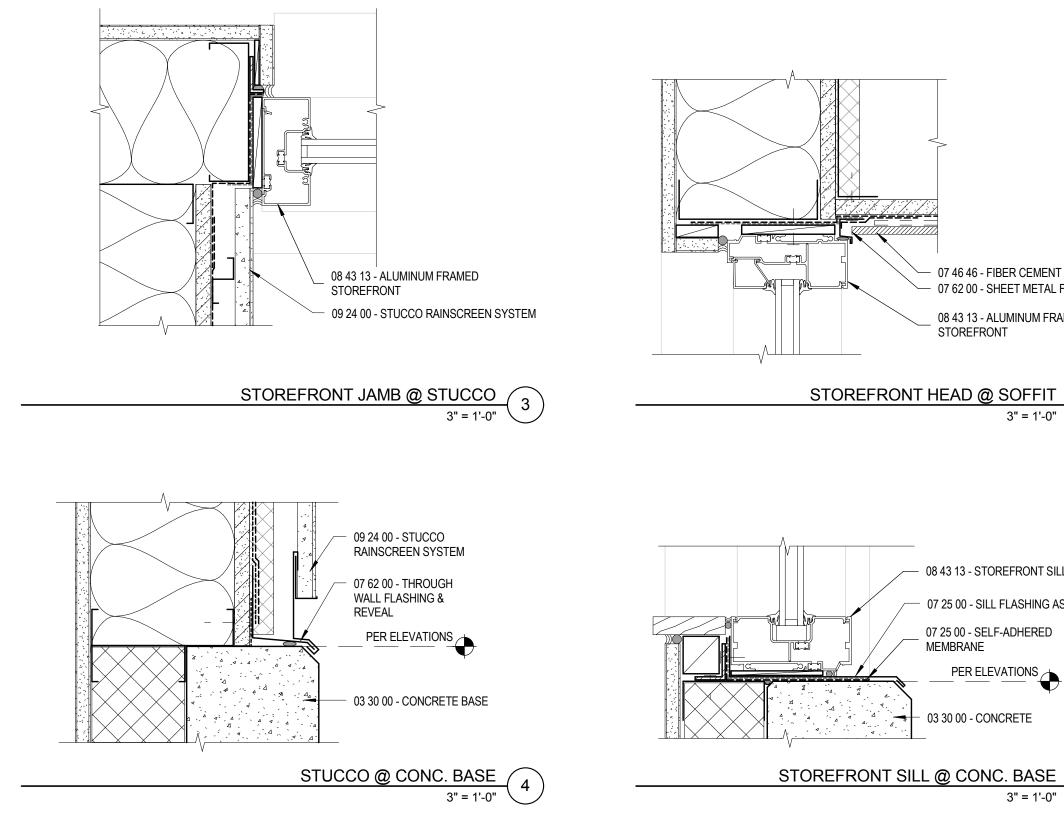












- 07 46 46 - FIBER CEMENT SIDING - 07 62 00 - SHEET METAL FLASHING

08 43 13 - ALUMINUM FRAMED STOREFRONT

3" = 1'-0"

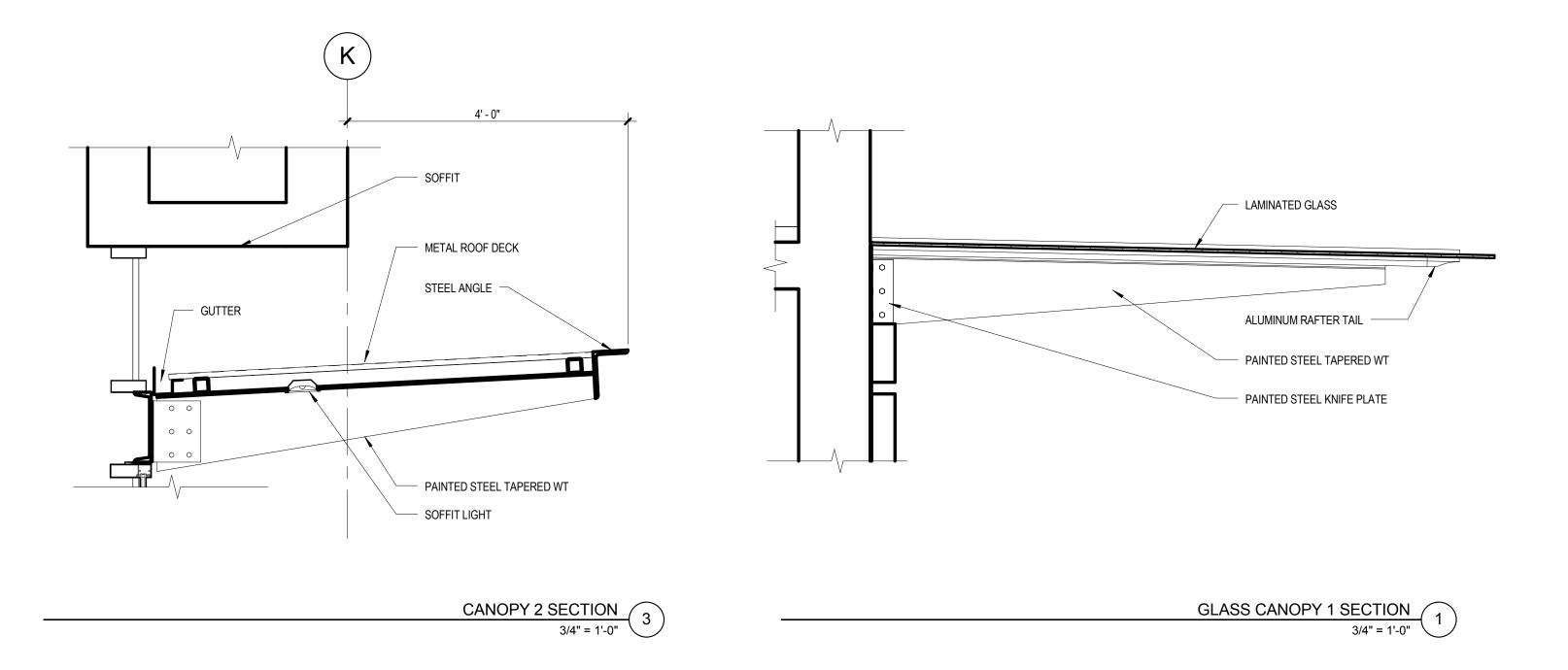
08 43 13 - STOREFRONT SILL

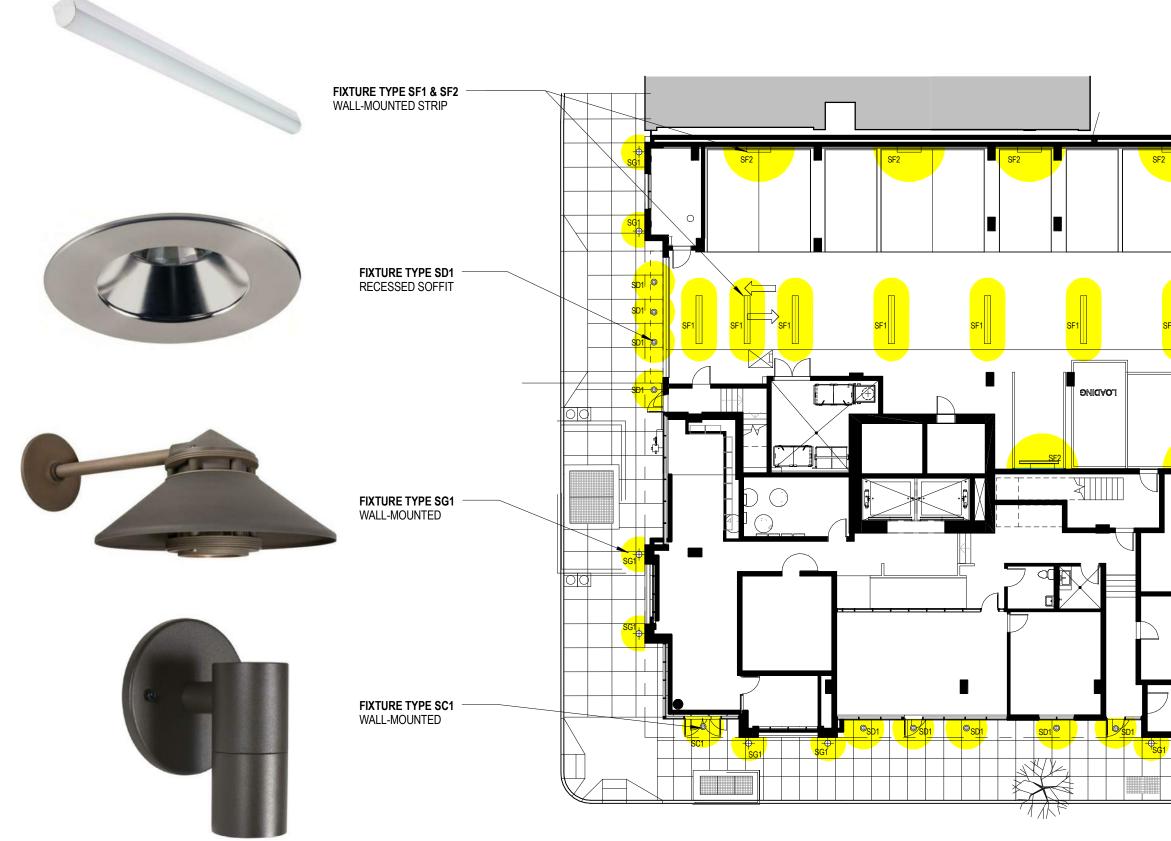
07 25 00 - SILL FLASHING ASSEMBLY

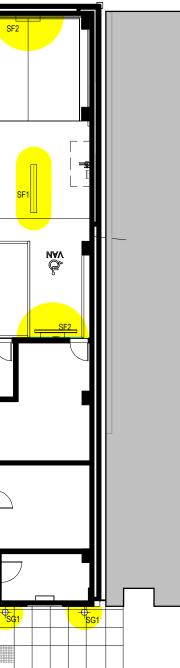
07 25 00 - SELF-ADHERED MEMBRANE

03 30 00 - CONCRETE

2 3" = 1'-0"









	NING ROOM
000	
	100' - 0"

GROUND FLOOR WINDOW STANDARDS:

()

PROPERTY LINE

	REQUIRED:	PROPOSED:
WINDOW LENGTH (MIN 50% WINDOW LENGTH PER TOTAL GROUND LEVEL WALL LENGTH)	50'	50'
WINDOW AREA (MIN 25% WINDOW AREA PER TOTAL GROUND LEVEL WALL AREA)	270 SF	374 SF

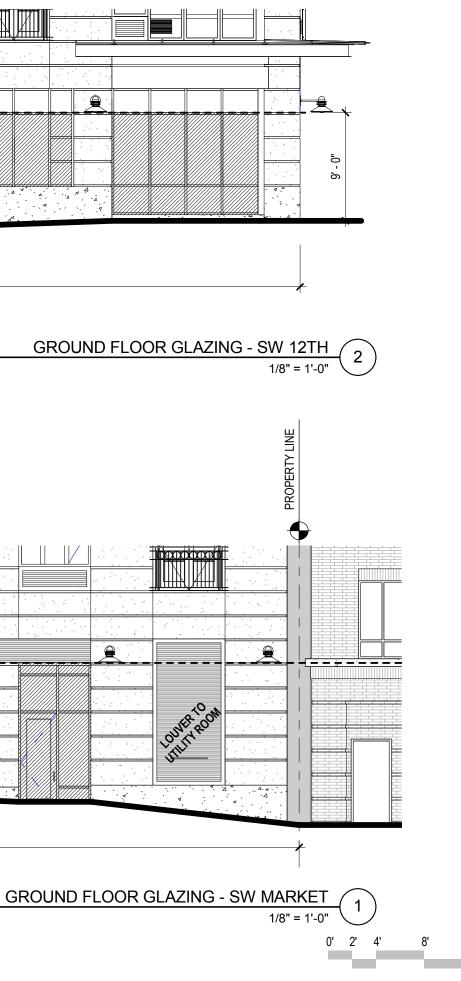
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100' - 0"

GROUND FLOOR WINDOW STANDARDS:

	REQUIRED:	PROPOSED:
WINDOW LENGTH (MIN 50% WINDOW LENGTH PER TOTAL GROUND LEVEL WALL LENGTH)	50'	63'-2"
WINDOW AREA (MIN 25% WINDOW AREA PER TOTAL GROUND LEVEL WALL AREA)	263 SF	566 SF



GROUND FLOOR WINDOW STANDARD

C45

12'