

# NORTH VALLEY COMPLEX RENOVATION



## TABLE OF CONTENTS: GRAPHIC EXHIBITS

C01 - COVER	C37 - SIGN PLAN
C02 - TABLE OF CONTENTS	C38 - SIGN DETAILS
C03 - SITE CONTEXT	C39 - SIGN ELEVATIONS
C04 - EXISTING CONDITIONS SURVEY NOTES	C40 - LUMINAIRE SCHEDULE
C05A - EXISTING CONDITIONS SURVEY - WEST	C41 - LIGHTING PLAN
C05B - EXISTING CONDITIONS SURVEY - EAST	C42 - LIGHTING PHOTOMETRIC PLAN
C06A - TREE PROTECTION PLAN	C43 - LIGHTING ELEVATIONS
C06B - TREE INVENTORY	C44 - MEP EQUIPMENT - DEMO PLAN
C06C - TREE INVENTORY	C45 - MEP EQUIPMENT - PLAN
C06D - TREE INVENTORY	C46 - EQUIPMENT SCHEDULES
C07 - CIVIL COVER SHEET / KEY PLAN	
C08 - SOUTHWEST CIVIL SITE PLAN	APPENDIX:
C09 - NORTHWEST CIVIL SITE PLAN	LIGHTING CUTSHEETS
C10 - NORTHEAST CIVIL SITE PLAN	LIGHTING COMPLIANCE REPORT
C11 - SOUTHEAST CIVIL SITE PLAN	MEP CUTSHEETS
C12 - CIVIL DETAIL / SECTIONS	
C13 - WEST EROSION CONTROL PLAN	
C14 - EAST EROSION CONTROL PLAN	
C15 - EROSION CONTROL DETAILS	
C16 - LANDSCAPE LEGEND	
C17 - LANDSCAPE DETAILS	
C18 - LANDSCAPE PLAN - WEST	
C19 - LANDSCAPE PLAN - EAST	
C20 - SITE MATERIALS BOARD	
C21 - SITE DEVELOPMENT PLAN	
C22 - FLOOR PLAN - LEVEL 01	
C23 - FLOOR PLAN - MEZZANINE	
C24 - FLOOR PLAN - ROOF	
C25 - EXISTING BUILDING ELEVATIONS	
C26 - EXISTING BUILDING ELEVATIONS	
C27 - EXISTING BUILDING ELEVATIONS	
C28 - PROPOSED BUILDING ELEVATIONS	
C29 - PROPOSED BUILDING ELEVATIONS	
C30 - PROPOSED BUILDING ELEVATIONS	
C31 - ROOF SIGHTLINE BUILDING SECTIONS	
C32 - ROOF SIGHTLINE BUILDING SECTIONS	
C33 - DETAILS - ENTRY CANOPY AND AWNINGS	
C34 - DETAILS - ENTRY CANOPY AND AWNINGS	
C35 - BUILDING PERSPECTIVE	
C36 - BUILDING MATERIALS BOARD	





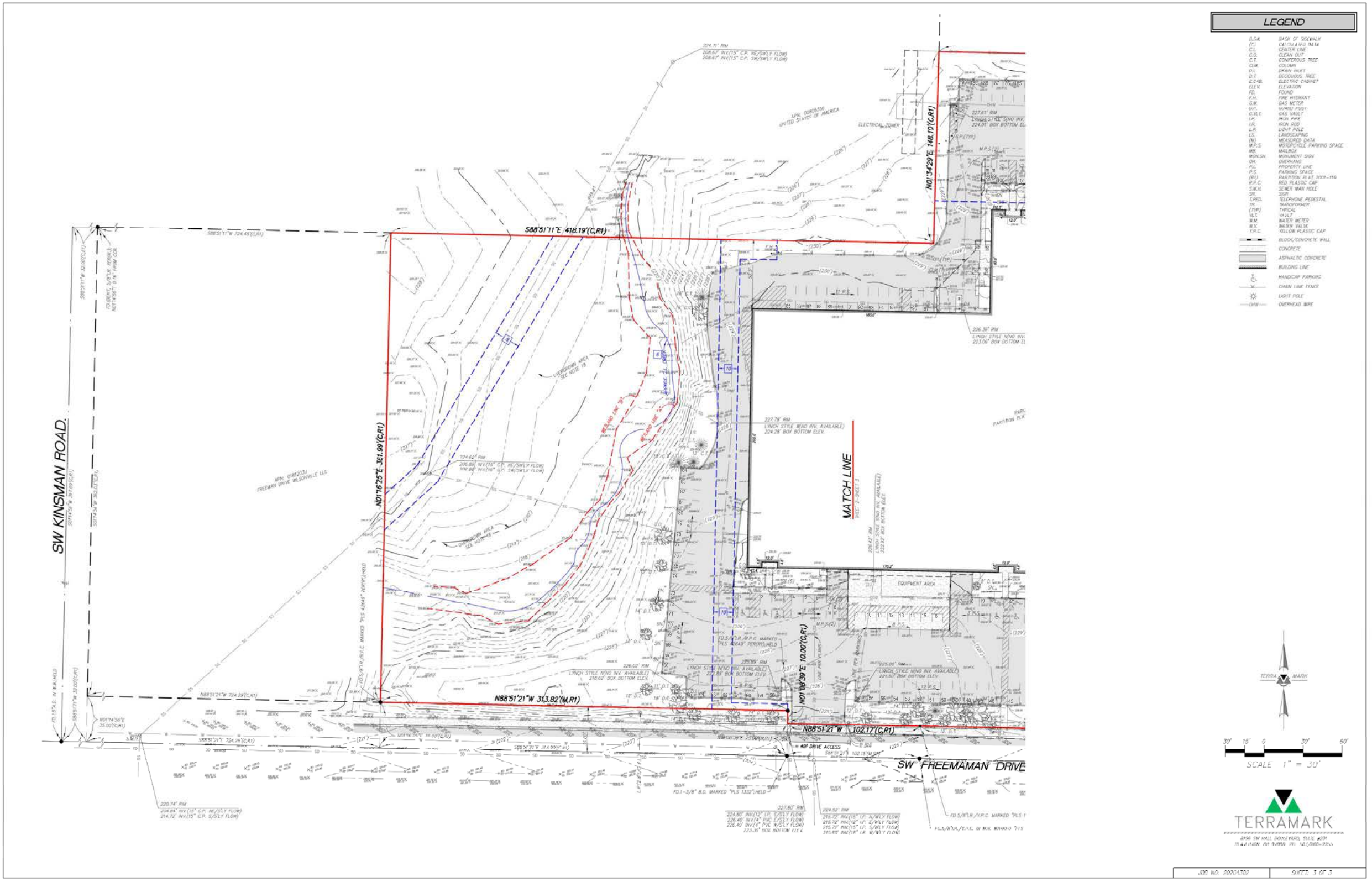




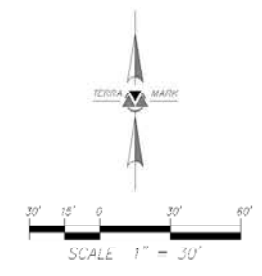




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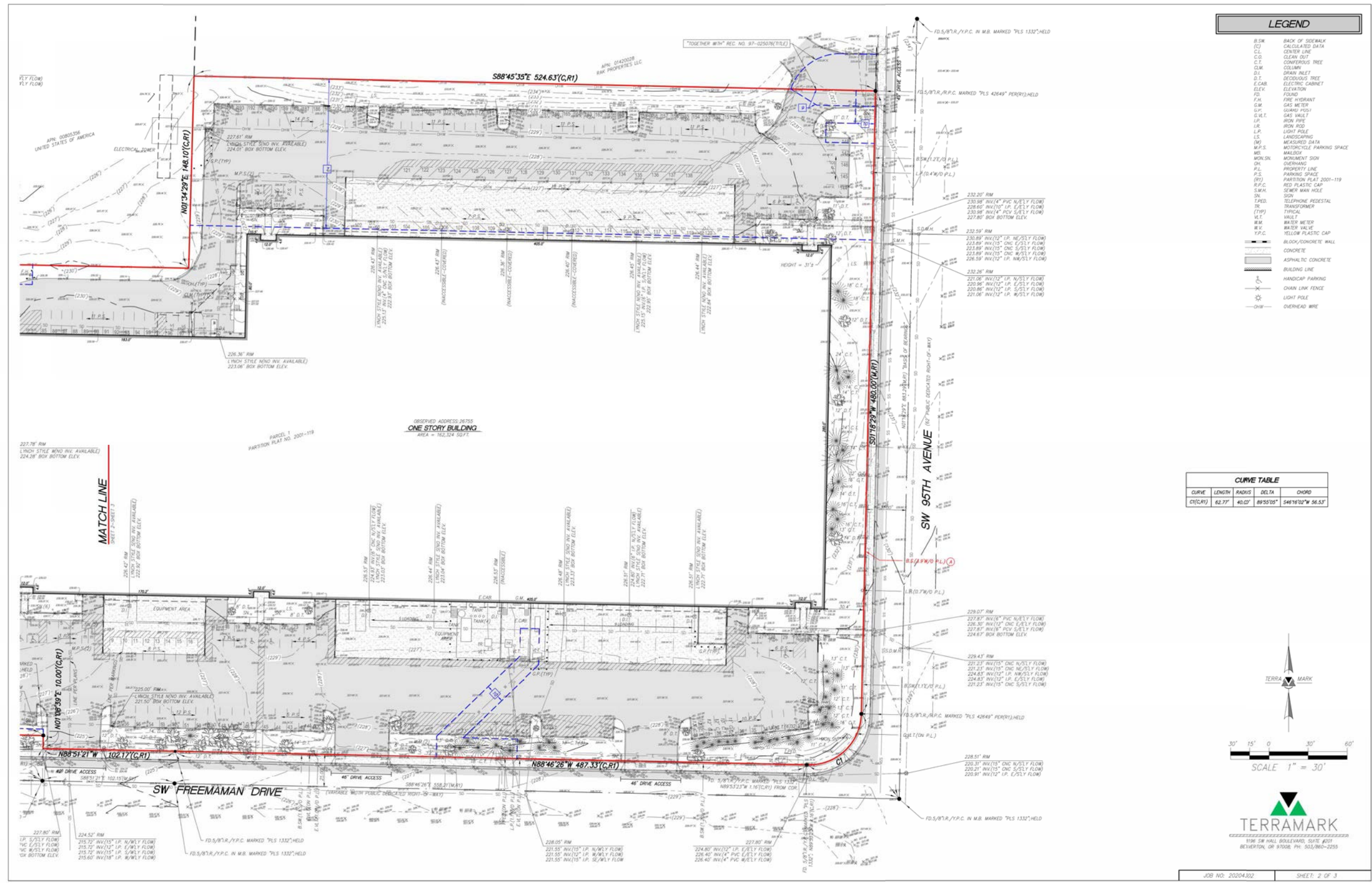
LEGEND	
B.S.K.	BACK OF SIDEWALK
C.C.	CALCULATED CURVE
C.L.	CENTER LINE
C.O.	CROWN CURVE
C.T.	CONTOUR TREE
C.W.	CULVERT
D.I.	DRAIN INLET
D.T.	DECOUPLER TREE
E.C.A.P.	ELECTRIC CHANTRY
ELEV.	ELEVATION
F.D.	FOUND
F.H.	FIRE HYDRANT
G.M.	GAS METER
G.P.	GUARD POST
G.V.	GAS VALVE
I.P.	IRON PIPE
I.R.	IRON ROD
L.P.	LIGHT POLE
L.S.	LANDSCAPING
M.	MEASURED DATA
M.P.S.	MOTORCYCLE PARKING SPACE
M.S.	MALIBU
M.U.S.	MONUMENT SIGN
O.H.	OVERHANG
P.L.	PROPERTY LINE
P.S.	PARKING SPACE
R.H.	RAILROAD AT 200'-110'
R.P.C.	RED PLASTIC CAP
S.M.H.	SEWER MAN HOLE
S.P.	SEWER
T.P.E.D.	TELEPHONE PEDESTAL
T.P.	TRANSFORMER
TYP.	TYPICAL
V.L.T.	VALVE
W.M.	WATER METER
W.V.	WATER VALVE
Y.P.C.	YELLOW PLASTIC CAP
---	BLOCK/CONCRETE WALL
---	CONCRETE
---	ASPHALTIC CONCRETE
---	BUILDING LINE
---	HANDICAP PARKING
---	CHAIN LINK FENCE
---	LIGHT POLE
---	OVERHEAD WIRE



JOB NO: 20201702 SHEET: 3 OF 3



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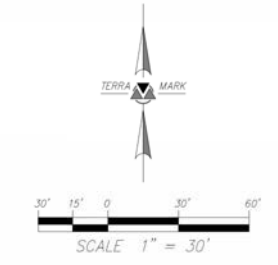


**LEGEND**

- B.S.W. BACK OF SIDEWALK
- CD CALCULATED DATA
- C.L. CENTER LINE
- C.O. CLEAN OUT
- C.T. CONSPICUOUS TREE
- C.M. COLUMN
- D.I. DRAIN W/LET
- D.T. DECIDUOUS TREE
- E.CAB. ELECTRIC CABINET
- ELEV. ELEVATION
- F.D. FOUND
- F.M. FINE MESHANT
- G.M. GAS METER
- G.P. GUARD POST
- G.V. GAS VALVE
- G.V.E.T. GAS VALVE
- I.P. IRON PIPE
- I.R. IRON ROD
- L.P. LIGHT POLE
- L.S. LANDSCAPING
- (M) MEASURED DATA
- M.P.S. MOTORCYCLE PARKING SPACE
- M.S. MAILBOX
- M.M. MONUMENT SIGN
- O.H. OVERHANG
- P.L. PROPERTY LINE
- P.S. PARKING SPACE
- (P) PARTITION PLAT 2001-119
- R.P.C. RED PLASTIC CAP
- S.M.H. SEWER MAN HOLE
- S.W. SIGN
- T.P.E.D. TELEPHONE PEDESTAL
- T.R. TRANSFORMER
- (TYP) TYPICAL
- U.T. VAULT
- W.M. WATER METER
- W.V. WATER VALVE
- Y.P.C. YELLOW PLASTIC CAP
- ALCOHOL/CONCRETE WALL
- CONCRETE
- ASPHALTIC CONCRETE
- BUILDING LINE
- HANDICAP PARKING
- CHAIN LINK FENCE
- LIGHT POLE
- OVERHEAD WIRE

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA	CHORD
C1(C.R.)	62.77'	40.02'	89°50'05"	546'10" W 56.53'



**TERRAMARK**  
 1106 SW HALL BOULEVARD, SUITE #201  
 BEHAVIOR, OR 97008 PH: 503/860-2255

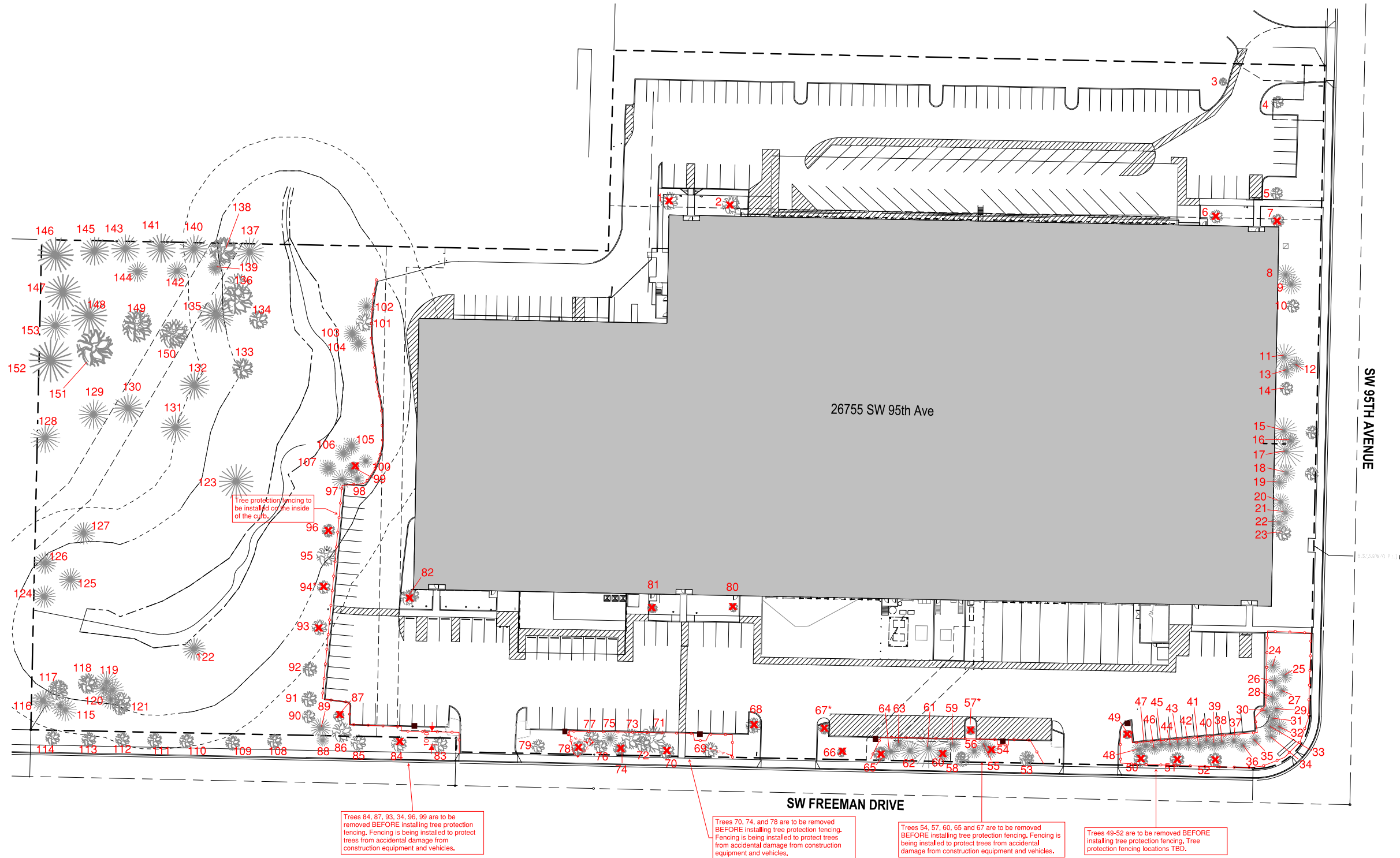
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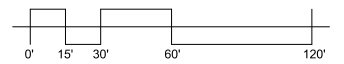
Appendix 5: Tree Protection Plan

TREE LEGEND

- # TREE NO.
- ✖ TREE PROPOSED FOR REMOVAL
- TREE PROTECTION FENCING
- PROPOSED LAMP POSTS



1 TREE PROTECTION PLAN  
 1" = 30'-0"





Appendix 4: Tree Inventory for North Valley Complex  
26755 SW 95th Avenue, Wilsonville, OR 97070

Tree No.	Common Name	Botanical Name	DBH* (in)	Height (ft)	Spread (ft)	Condition**	Structure**	Remove or Retain	Comments
1	Cherry	<i>Prunus serrulata</i>	12	20	15	Fair	Fair	Remove - Declining health	Diameter measured at 3.75' AGL; dead and crossing branches; decay on SW side of trunk; water sprouts.
2	Cherry	<i>Prunus serotina</i>	15	25	20	Fair	Fair	Remove - Declining health	Diameter at 3' AGL; water sprouts; crossing branches; touching building.
3	Hawthorn	<i>Crataegus sp.</i>	7	10	10	Good	Fair	Retain	Diameter at 3.5' AGL; topped; weak branch attachments; unbalanced canopy to the W.
4	Hawthorn	<i>Crataegus sp.</i>	12	10	15	Good	Fair	Retain	Topped; crossing branches.
5	Hawthorn	<i>Crataegus sp.</i>	11	10	15	Good	Fair	Retain	Topped; crossing branches.
6	Japanese maple	<i>Acer palmatum</i>	16	20	30	Poor	Poor	Remove - Damaged	Multistem: 7,6,6,3,4,5,6; storm damage; four leaders have decay present; unbalanced canopy with storm damage.
7	Japanese maple	<i>Acer palmatum</i>	12	15	15	Fair	Poor	Remove - Declining health	Multistem: 6,6,5,5,5; inclusion: decay or wound on every leader; some storm damage in upper canopy.
8	Western redcedar	<i>Thuja plicata</i>	20	50	30	Good	Good	Retain	Codominant leaders: 16,13.
9	Western redcedar	<i>Thuja plicata</i>	18	50	30	Good	Good	Retain	
10	Japanese maple	<i>Acer palmatum</i>	12	30	25	Good	Good	Retain	Multistem: 6,8,6,3; some storm damage in upper canopy.
11	Western redcedar	<i>Thuja plicata</i>	21	50	25	Good	Good	Retain	Codominant leaders: 17,13.
12	Western redcedar	<i>Thuja plicata</i>	18	50	25	Good	Good	Retain	
13	Western redcedar	<i>Thuja plicata</i>	16	50	25	Good	Good	Retain	
14	Japanese maple	<i>Acer palmatum</i>	11	25	15	Good	Fair	Retain	Multistem: 7,7,4,4; inclusions: unbalanced to the E.
15	Western redcedar	<i>Thuja plicata</i>	22	50	20	Good	Good	Retain	Codominant leaders: 16,15.
16	Western redcedar	<i>Thuja plicata</i>	15	50	20	Good	Good	Retain	
17	Western redcedar	<i>Thuja plicata</i>	17	50	20	Good	Good	Retain	Multistem: 13,8,8.
18	Western redcedar	<i>Thuja plicata</i>	17	50	25	Good	Good	Retain	
19	Western redcedar	<i>Thuja plicata</i>	16	50	15	Good	Good	Retain	
20	Western redcedar	<i>Thuja plicata</i>	15	45	15	Good	Good	Retain	Fused leaders; diameter measured at 1.25' AGL.
21	Western redcedar	<i>Thuja plicata</i>	14	50	20	Good	Good	Retain	Two leaders: 13,6.
22	Western redcedar	<i>Thuja plicata</i>	16	50	15	Good	Good	Retain	Codominant leaders: 12,11.
23	Japanese maple	<i>Acer palmatum</i>	14	30	20	Good	Good	Retain	Multistem: 8,7,6,5,4,3; unbalanced to the SE.
24	Colorado blue spruce	<i>Picea pungens</i>	13	40	15	Good	Good	Retain	
25	Colorado blue spruce	<i>Picea pungens</i>	14	40	15	Good	Good	Retain	
26	Colorado blue spruce	<i>Picea pungens</i>	12	40	15	Good	Good	Retain	
27	Western redcedar	<i>Thuja plicata</i>	8	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
28	Western redcedar	<i>Thuja plicata</i>	11	40	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
29	Western redcedar	<i>Thuja plicata</i>	12	40	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
30	Western redcedar	<i>Thuja plicata</i>	11	40	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
31	Western redcedar	<i>Thuja plicata</i>	10	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
32	Western redcedar	<i>Thuja plicata</i>	15	45	25	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
33	Western redcedar	<i>Thuja plicata</i>	12	40	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
34	Western redcedar	<i>Thuja plicata</i>	15	45	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
35	Colorado blue spruce	<i>Picea pungens</i>	10	30	10	Good	Good	Retain	
36	Colorado blue spruce	<i>Picea pungens</i>	12	35	20	Good	Good	Retain	
37	Western redcedar	<i>Thuja plicata</i>	12	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
38	Western redcedar	<i>Thuja plicata</i>	12	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
39	Western redcedar	<i>Thuja plicata</i>	10	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
40	Western redcedar	<i>Thuja plicata</i>	13	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
41	Western redcedar	<i>Thuja plicata</i>	13	35	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
42	Colorado blue spruce	<i>Picea pungens</i>	11	35	20	Good	Good	Retain	
43	Western redcedar	<i>Thuja plicata</i>	8	25	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
44	Western redcedar	<i>Thuja plicata</i>	14	35	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
45	Western redcedar	<i>Thuja plicata</i>	10	30	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
46	Western redcedar	<i>Thuja plicata</i>	12	35	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
47	Western redcedar	<i>Thuja plicata</i>	11	35	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
48	Western redcedar	<i>Thuja plicata</i>	14	35	25	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
49	Red maple	<i>Acer rubrum</i>	8	15	10	Poor	Poor	Remove - Damaged	Diameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.
50	Maple	<i>Acer saccharum</i>	10	25	20	Good	Good	Client Request for Removal - Interference	
51	Maple	<i>Acer saccharum</i>	12	25	20	Good	Good	Client Request for Removal - Interference	Surface root damage; pruned away from lamp to W.
52	Maple	<i>Acer saccharum</i>	12	25	25	Good	Good	Client Request for Removal - Interference	6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.
53	Maple	<i>Acer saccharum</i>	14	25	15	Good	Fair	Retain	Three leaders at 7'; active decay; wood borer holes.
54	Western redcedar	<i>Thuja plicata</i>	12	25	20	Good	Good	Client Request for Removal - Interference	Some discoloration/yellowing foliage in upper canopy.
55	Western redcedar	<i>Thuja plicata</i>	10	25	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
56	Western redcedar	<i>Thuja plicata</i>	13	35	20	Fair	Good	Retain	Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.
57	Unknown	Unknown	0	n/a	n/a	Dead	Dead	Remove - Dead	Failed; uprooted.
58	Maple	<i>Acer saccharum</i>	6	20	15	Good	Fair	Retain	Codominant leaders at 6.
59	Western redcedar	<i>Thuja plicata</i>	11	35	20	Fair	Good	Retain	Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.
60	Western redcedar	<i>Thuja plicata</i>	13	35	20	Poor	Good	Client Request for Removal - Interference	Declining health; brown and yellowing foliage.

3145 Westview Circle, Lake Oswego, Oregon 97034  
E: info@teragan.com | O: 503.697.1975



Appendix 4: Tree Inventory for North Valley Complex  
26755 SW 95th Avenue, Wilsonville, OR 97070

Tree No.	Common Name	Botanical Name	DBH (in)	Height (ft)	Spread (ft)	Condition **	Structure **	Remove or Retain	Comments
61	Western redcedar	<i>Thuja plicata</i>	17	35	20	Good	Good	Retain	Three leaders:11,8,11; some discoloration and yellowing foliage in upper canopy.
62	Western redcedar	<i>Thuja plicata</i>	15	35	20	Good	Good	Retain	Two leaders:13,8; some discoloration and yellowing foliage in upper canopy.
63	Western redcedar	<i>Thuja plicata</i>	13	30	20	Good	Good	Retain	Some discoloration and yellowing foliage in upper canopy.
64	Western redcedar	<i>Thuja plicata</i>	16	35	20	Good	Good	Retain	Some discoloration and yellowing foliage in upper canopy.
65	Maple	<i>Acer saccharum</i>	11	25	15	Good	Good	Client Request for Removal - Interference	
66	Maple	<i>Acer saccharum</i>	10	20	10	Very poor	Poor	Remove - Declining health	Blackened and missing bark on lower trunk; boring holes; little to no new growth.
67	Unknown	Unknown	0	n/a	n/a	Dead	Dead	Remove - Dead	Failed; uprooted.
68	Maple	<i>Acer saccharum</i>	14	20	25	Poor	Poor	Remove - Damaged	Storm damage, unbalanced canopy.
69	Maple	<i>Acer saccharum</i>	17	25	25	Good	Fair	Retain	Diameter at 3.75'; Four leaders at 5'; crossing branches; blackened bark on lower trunk; borer holes.
70	Maple	<i>Acer saccharum</i>	13	25	25	Good	Fair	Client Request for Removal - Interference	Blackened bark on lower trunk; borer holes; surface root damage.
71	Western redcedar	<i>Thuja plicata</i>	17	35	20	Good	Good	Retain	Three leaders:12,9,8.
72	Western redcedar	<i>Thuja plicata</i>	14	35	20	Good	Good	Retain	Two leaders:13,6.
73	Western redcedar	<i>Thuja plicata</i>	21	35	20	Good	Good	Retain	Diameter measured at 0.5' AGL; three fused leaders.
74	Maple	<i>Acer saccharum</i>	15	25	20	Fair	Fair	Client Request for Removal - Interference	Diameter at 3.5' AGL; large inclusion on S side; wound wood and cracked bark.
75	Western redcedar	<i>Thuja plicata</i>	16	35	15	Good	Good	Retain	Two leaders: 14,8; sapsuckers.
76	Western redcedar	<i>Thuja plicata</i>	16	35	20	Good	Good	Retain	
77	Western redcedar	<i>Thuja plicata</i>	16	35	20	Good	Good	Retain	
78	Maple	<i>Acer saccharum</i>	16	30	20	Good	Good	Client Request for Removal - Interference	Slight unbalance to NW.
79	Maple	<i>Acer saccharum</i>	13	25	20	Good	Fair	Retain	Inclusions; crossing branches; burls.
80	Cherry	<i>Prunus serrulata</i>	8	10	10	Poor	Very poor	Client Request for Removal - Development - Structure	Two leaders: 6,5; decayed leaders; lean to the E.
81	Cherry	<i>Prunus serrulata</i>	10	15	10	Good	Fair	Client Request for Removal - Development - Structure	Two leaders:8,6; dead branches; unbalanced to the E; water sprouts.
82	Cherry	<i>Prunus serrulata</i>	12	25	20	Good	Good	Client Request for Removal - Development - Structure	
83	Maple	<i>Acer saccharum</i>	15	20	20	Good	Good	Retain	Diameter at 4' AGL, branch inclusions; cable and telecommunications nearby.
84	Maple	<i>Acer saccharum</i>	16	20	20	Poor	Very poor	Remove - Declining health	Missing bark on S side; will decline; inclusions; cracked bark; dead leaders
85	Maple	<i>Acer saccharum</i>	15	25	25	Fair	Fair	Retain	Diameter at 4' AGL; wound on south side of trunk; inclusions.
86	Western redcedar	<i>Thuja plicata</i>	12	35	20	Good	Good	Retain	Three leaders: 8,8,4.
87	Green ash	<i>Fraxinus pennsylvanica</i>	10	30	25	Poor	Poor	Remove - Damaged	Lost 75% of canopy on storm.
88	Western redcedar	<i>Thuja plicata</i>	15	35	30	Good	Good	Retain	Multistem: 9,8,7,6,3.
89	Western redcedar	<i>Thuja plicata</i>	13	35	25	Good	Good	Retain	Two leaders: 12,6.
90	Red maple	<i>Acer rubrum</i>	9	25	20	Good	Good	Retain	
91	Western redcedar	<i>Thuja plicata</i>	12	25	15	Poor	Good	Retain	Brown foliage; in decline.
92	Green ash	<i>Fraxinus pennsylvanica</i>	14	30	25	Good	Good	Retain	
93	Green ash	<i>Fraxinus pennsylvanica</i>	15	30	20	Poor	Poor	Remove - Damaged	Lost over 50% of canopy in storm.
94	Unknown	Unknown	0	n/a	n/a	Dead	Dead	Remove - Dead	Failed; uprooted.
95	Green ash	<i>Fraxinus pennsylvanica</i>	19	30	30	Good	Good	Retain	
96	Green ash	<i>Fraxinus pennsylvanica</i>	7	n/a	n/a	Dead	Dead	Remove - Dead	
97	Western redcedar	<i>Thuja plicata</i>	17	35	25	Fair	Good	Retain	Codominant leaders: 13,11; browning and thinning foliage.
98	Western redcedar	<i>Thuja plicata</i>	12	35	25	Poor	Good	Retain	Browning and thinning foliage.
99	Green ash	<i>Fraxinus pennsylvanica</i>	12	25	25	Poor	Poor	Remove - Damaged	Lost over 50% of canopy to storm.
100	Douglas fir	<i>Pseudotsuga menziesii</i>	12	30	25	Good	Good	Retain	
101	Green ash	<i>Fraxinus pennsylvanica</i>	20	35	30	Good	Good	Retain	
102	Western redcedar	<i>Thuja plicata</i>	17	35	25	Fair	Good	Retain	Slight browning of foliage in upper canopy.
103	Douglas fir	<i>Pseudotsuga menziesii</i>	7	15	10	Good	Good	Retain	
104	Western redcedar	<i>Thuja plicata</i>	9	20	10	Good	Good	Retain	
105	Western redcedar	<i>Thuja plicata</i>	14	30	25	Fair	Good	Retain	Slight browning of foliage.
106	Western redcedar	<i>Thuja plicata</i>	19	30	25	Fair	Good	Retain	Three leaders: 14,10,8; slight browning of foliage.
107	Western redcedar	<i>Thuja plicata</i>	8	25	30	Good	Good	Retain	Three leaders: 6,5,3.
108	Red maple	<i>Acer rubrum</i>	12	25	25	Good	Good	Retain	
109	Red maple	<i>Acer rubrum</i>	11	20	20	Fair	Fair	Retain	Cracked bark at tree base.
110	Red maple	<i>Acer rubrum</i>	11	20	20	Fair	Fair	Retain	Cracked bark at trunk base and up trunk.
111	Red maple	<i>Acer rubrum</i>	13	25	20	Good	Good	Retain	
112	Red maple	<i>Acer rubrum</i>	14	25	25	Good	Good	Retain	Heavy sapsuckers at 6'.
113	Red maple	<i>Acer rubrum</i>	14	25	25	Good	Good	Retain	
114	Red maple	<i>Acer rubrum</i>	13	25	25	Good	Good	Retain	
115	Western redcedar	<i>Thuja plicata</i>	~15	30	30	Good	Good	Retain	
116	Northern red oak	<i>Quercus rubra</i>	22	40	35	Good	Good	Retain	
117	Northern red oak	<i>Quercus rubra</i>	19	40	35	Good	Good	Retain	
118	Western redcedar	<i>Thuja plicata</i>	13	35	25	Good	Good	Retain	Two leaders: 12,6.



Appendix 4: Tree Inventory for North Valley Complex  
26755 SW 95th Avenue, Wilsonville, OR 97070

Tree No.	Common Name	Botanical Name	DBH <sup>†</sup> (in)	Height (ft)	Spread (ft)	Condition <sup>**</sup>	Structure <sup>**</sup>	Remove or Retain	Comments
119	Western redcedar	<i>Thuja plicata</i>	20	35	25	Good	Good	Retain	Two leaders: 8,-18
120	Northern red oak	<i>Quercus rubra</i>	19	40	30	Good	Good	Retain	
121	Western redcedar	<i>Thuja plicata</i>	~13	40	25	Good	Good	Retain	
122	Douglas fir	<i>Pseudotsuga menziesii</i>	~28	70	40	Poor	Poor	Retain	Dead branches; thinning foliage.
123	Douglas fir	<i>Pseudotsuga menziesii</i>	~30	65	40	Good	Good	Retain	
124	Douglas fir	<i>Pseudotsuga menziesii</i>	~36	80	50	Good	Good	Retain	
125	Giant Sequoia	<i>Sequoiadendron giganteum</i>	~28	45	25	Good	Good	Retain	
126	Douglas fir	<i>Pseudotsuga menziesii</i>	16	45	30	Good	Good	Retain	
127	Douglas fir	<i>Pseudotsuga menziesii</i>	20	40	30	Good	Good	Retain	
128	Giant Sequoia	<i>Sequoiadendron giganteum</i>	9	20	15	Good	Good	Retain	
129	Douglas fir	<i>Pseudotsuga menziesii</i>	17	45	30	Good	Good	Retain	
130	Giant Sequoia	<i>Sequoiadendron giganteum</i>	30	50	30	Good	Good	Retain	
131	Douglas fir	<i>Pseudotsuga menziesii</i>	45	80	40	Good	Good	Retain	
132	Douglas fir	<i>Pseudotsuga menziesii</i>	44	80	40	Good	Good	Retain	
133	Willow	<i>Salix sp.</i>	18	30	25	Good	Good	Retain	
134	Willow	<i>Salix sp.</i>	13	25	20	Fair	Poor	Retain	Two leaders: 7,11; unbalanced to the E.
135	Douglas fir	<i>Pseudotsuga menziesii</i>	44	80	40	Good	Good	Retain	
136	Bigleaf maple	<i>Acer macrophyllum</i>	23	30	30	Fair	Fair	Retain	Lean to NE; deadwood.
137	Incense cedar	<i>Calocedrus decurrens</i>	26	60	40	Good	Fair	Retain	Multiple leaders at 20'.
138	Bigleaf maple	<i>Acer macrophyllum</i>	34	50	40	Good	Fair	Retain	
139	Incense cedar	<i>Calocedrus decurrens</i>	27	60	30	Good	Good	Retain	Craggy and burl'd growth.
140	Incense cedar	<i>Calocedrus decurrens</i>	9	20	15	Good	Poor	Retain	Failed tree leaning on upper canopy.
141	Incense cedar	<i>Calocedrus decurrens</i>	25	50	30	Good	Good	Retain	
142	Bigleaf maple	<i>Acer macrophyllum</i>	27	45	25	Good	Fair	Retain	Unbalanced to the N.
143	Incense cedar	<i>Calocedrus decurrens</i>	10	25	10	Poor	Fair	Retain	Suppressed.
144	Incense cedar	<i>Calocedrus decurrens</i>	23	60	25	Good	Good	Retain	
145	Incense cedar	<i>Calocedrus decurrens</i>	19	65	30	Good	Good	Retain	
146	Incense cedar	<i>Calocedrus decurrens</i>	30	70	40	Good	Good	Retain	NW corner tree.
147	Incense cedar	<i>Calocedrus decurrens</i>	40	70	50	Good	Good	Retain	S of 146; codominant leaders: 28,28.
148	Incense cedar	<i>Calocedrus decurrens</i>	27	75	45	Good	Good	Retain	
149	Bigleaf maple	<i>Acer macrophyllum</i>	39	60	50	Good	Fair	Retain	Codominant leaders; diameter measured at 1' AGL; burls at trunk base; deadwood.
150	Bigleaf maple	<i>Acer macrophyllum</i>	25	55	35	Good	Good	Retain	
151	Bigleaf maple	<i>Acer macrophyllum</i>	~30	55	45	Fair	Fair	Retain	Odd growth at trunk base; deadwood.
152	Douglas fir	<i>Pseudotsuga menziesii</i>	43	60	50	Fair	Poor	Retain	Conks at ~20; hard lean S; failed and regrown.
153	Western redcedar	<i>Thuja plicata</i>	8	n/a	n/a	Dead	Dead	Retain	This tree is in a natural area and does not need to be removed.

\* DBH is diameter measured at the industry standard of 4.5-feet above ground level.

\*\* Tree health condition and structure ratings are **Good, Fair, Poor, Very poor,** and **Dead.**

AGL, Above Ground Level



# NORTH VALLEY COMPLEX RESTORATION WILSONVILLE, OREGON

CIVIL DESIGN REVIEW

MARCH 2021

**SHEET INDEX**

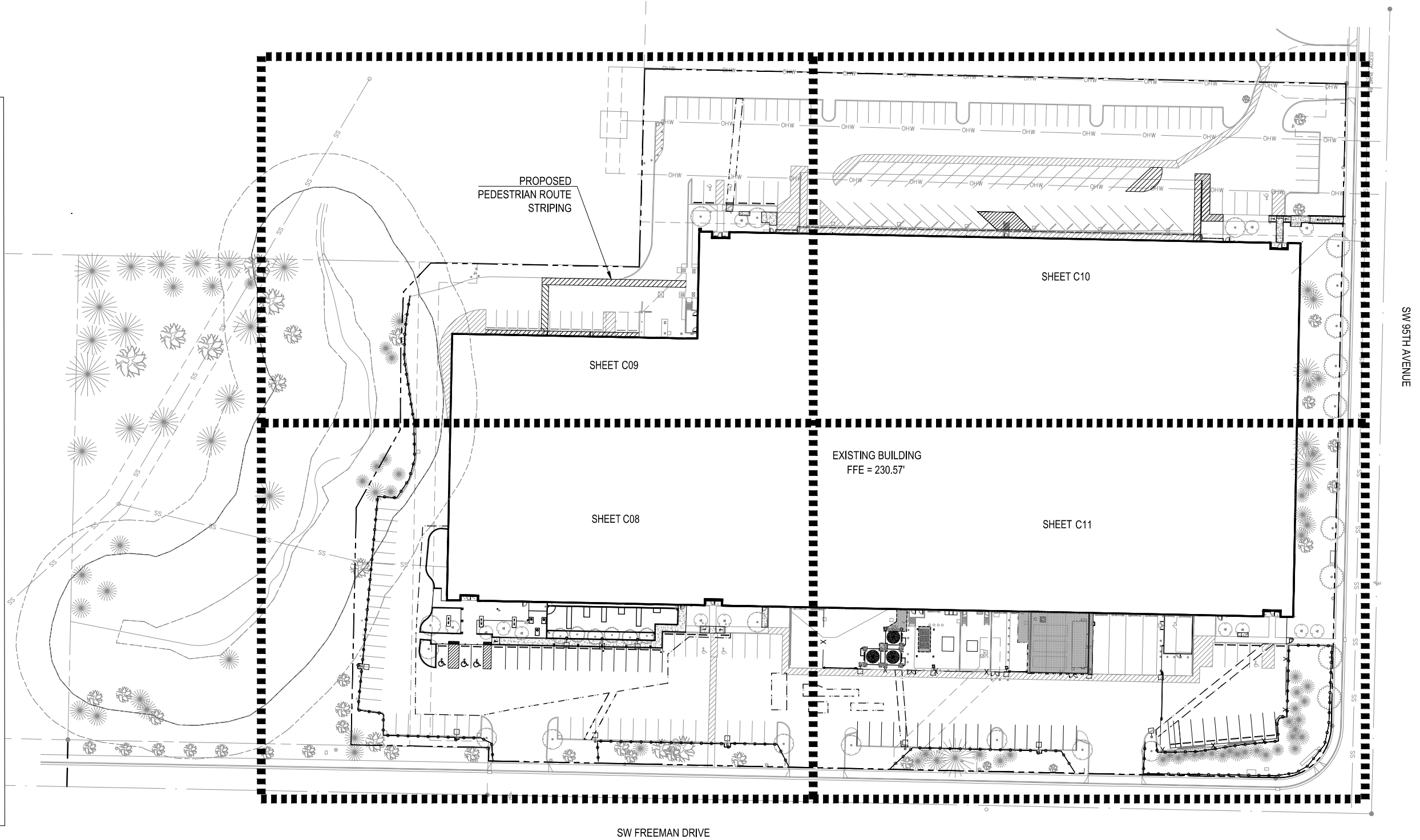
- C07 CML COVER SHEET /KEY PLAN
- C08 SOUTHWEST CIVIL SITE PLAN
- C09 NORTHWEST CIVIL SITE PLAN
- C10 NORTHEAST CIVIL SITE PLAN
- C11 SOUTHEAST CIVIL SITE PLAN
- C12 CML DETAILS/SECTIONS
- C13 WEST EROSION CONTROL PLAN
- C14 EAST EROSION CONTROL PLAN
- C15 EROSION CONTROL DETAILS

**PROPOSED / NEW LEGEND AND ABBREVIATIONS**

AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
APPROX	APPROXIMATELY
BC	BOTTOM OF CURB
BPA	BONNEVILLE POWER ADMINISTRATION
BWALL	BOTTOM OF WALL
CONST	CONSTRUCT
CP	CONTROL POINT
DBH	DIAMETER BREAST HEIGHT
DS	DOWNSPOUT
EA	EACH
EG	EXISTING GRADE
EL	ELEVATION
ESMT	EASEMENT
EX	EXISTING
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
FT	FOOT/FEET
FS	FINISHED SURFACE
GB	GRADE BREAK
GPS	GLOBAL POSITIONING SYSTEM
L	LENGTH
LF	LINEAR FEET
ME	MATCH EXISTING
MH	MANHOLE
MEP	MECHANICAL ELECTRICAL PLUMBING
MIN	MINIMUM
PERF	PERFORATED
PCC	PORTLAND CEMENT CONCRETE
PL	PROPERTY LINE
PUE	PUBLIC UTILITY EASEMENT
PVMT	PAVEMENT
R	RADIUS
ROW	RIGHT OF WAY
S	SLOPE
SF	SQUARE FEET
SROZ	SIGNIFICANT RESOURCE OVERLAY ZONE
STD	STANDARD
SWP	STORMWATER PLANTER
TC	TOP OF CURB
TP	TOP OF PAVEMENT
TYP	TYPICAL
TW	TOP OF WALK
TWALL	TOP OF WALL

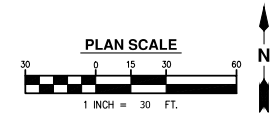
  

	SAWCUT LINE
	LIMITS OF WORK
	NEW CURB
	STORM DRAIN (SD)
	CLEAN OUT (CO)
	AREA DRAIN (AD)
	VERTICAL TRANSITION CLEAN OUT (VCO)
	GRADE BREAK
	SPOT ELEVATION
	OVERLAND DRAINAGE DIRECTION
	NEW FENCING
	TREE PROTECTION FENCING

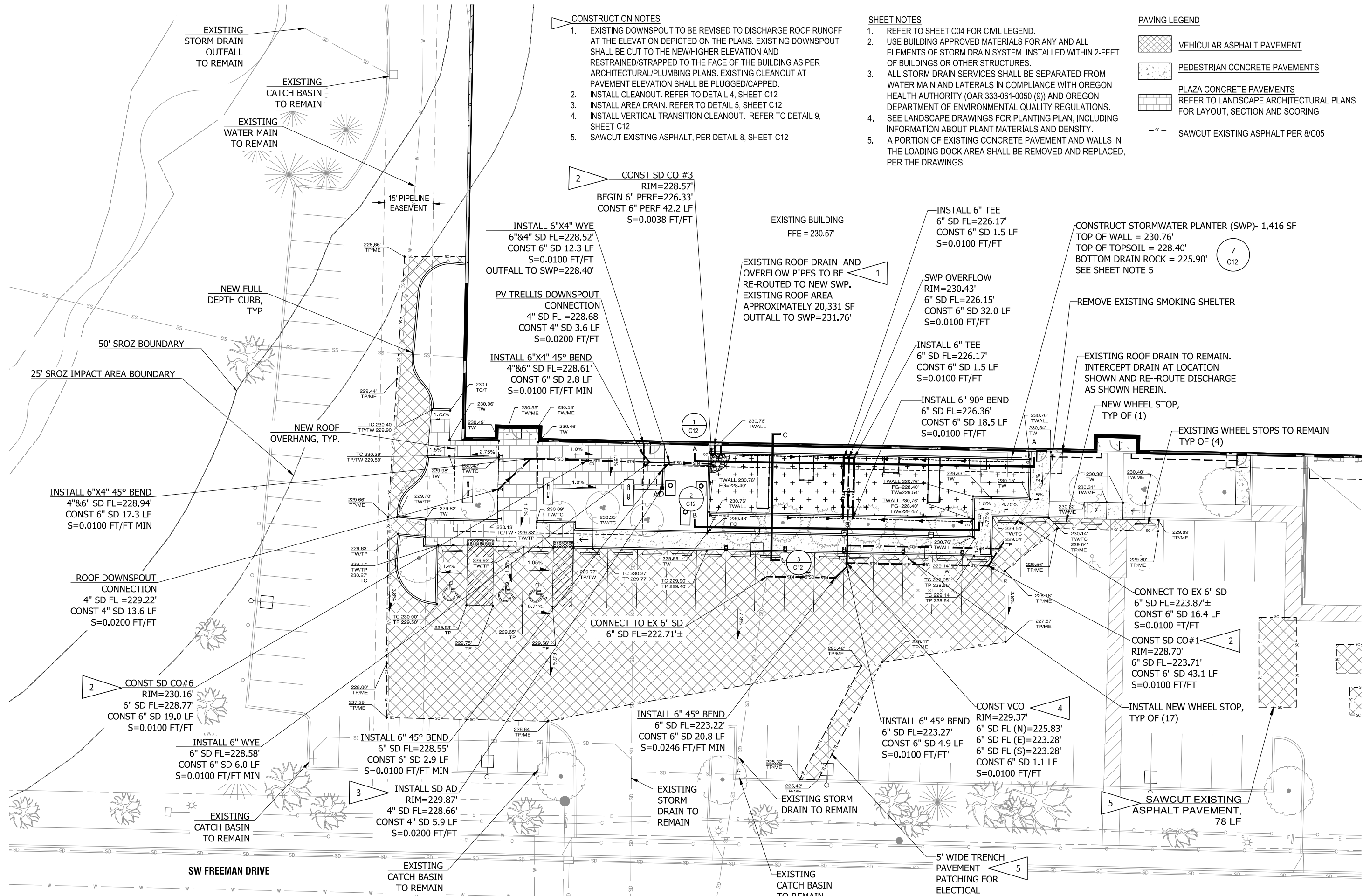


SW FREEMAN DRIVE

SW 95TH AVENUE

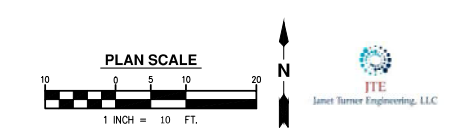
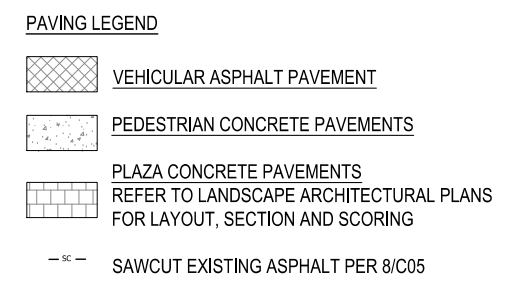









- CONSTRUCTION NOTES**
- EXISTING DOWNSPOUT TO BE REVISED TO DISCHARGE ROOF RUNOFF AT THE ELEVATION DEPICTED ON THE PLANS. EXISTING DOWNSPOUT SHALL BE CUT TO THE NEW/HIGHER ELEVATION AND RESTRAINED/STRAPPED TO THE FACE OF THE BUILDING AS PER ARCHITECTURAL/PLUMBING PLANS. EXISTING CLEANOUT AT PAVEMENT ELEVATION SHALL BE PLUGGED/CAPPED.
  - INSTALL CLEANOUT. REFER TO DETAIL 4, SHEET C12
  - INSTALL AREA DRAIN. REFER TO DETAIL 5, SHEET C12
  - INSTALL VERTICAL TRANSITION CLEANOUT. REFER TO DETAIL 9, SHEET C12
  - SAWCUT EXISTING ASPHALT, PER DETAIL 8, SHEET C12

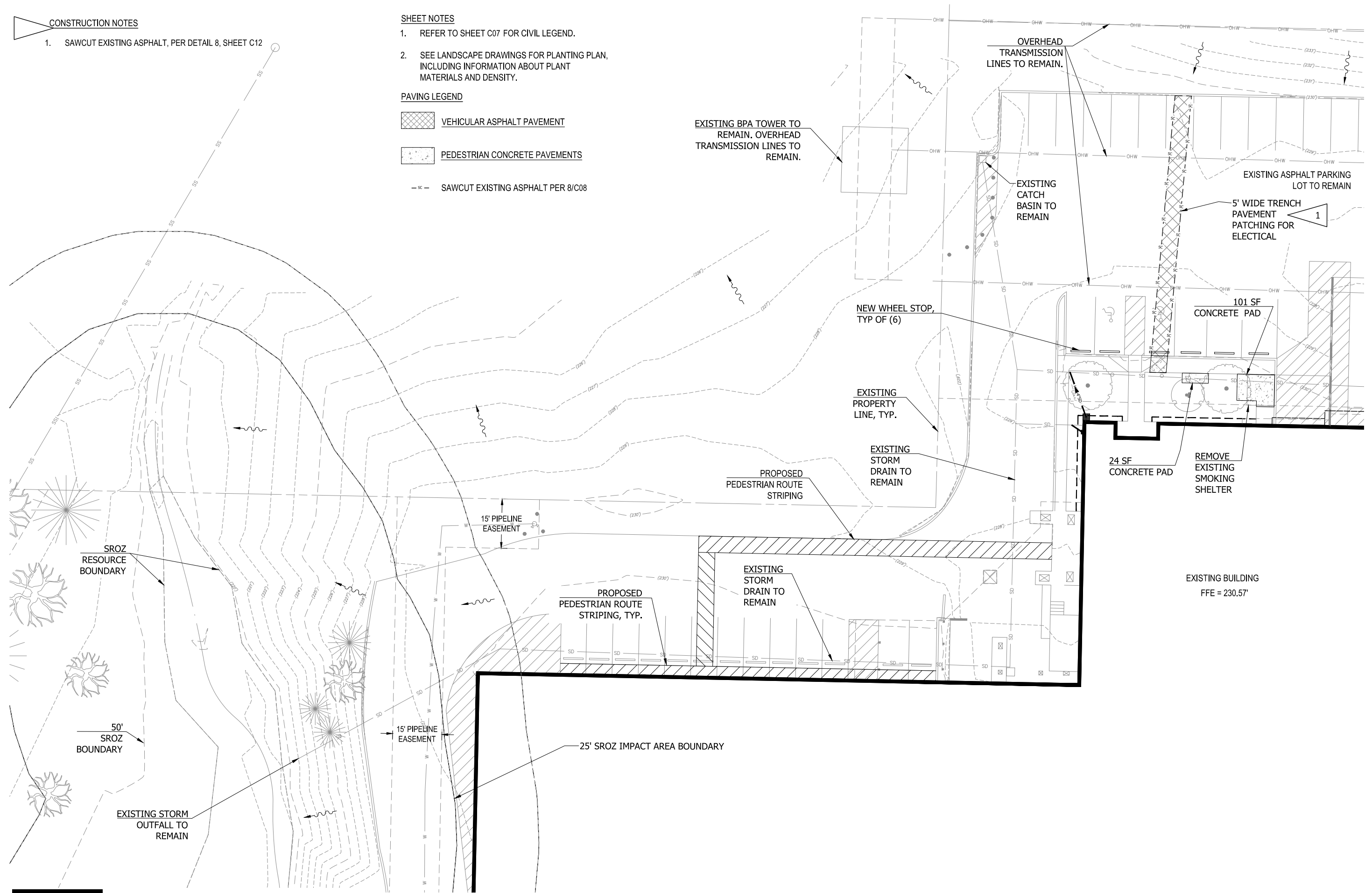
- SHEET NOTES**
- REFER TO SHEET C04 FOR CIVIL LEGEND.
  - USE BUILDING APPROVED MATERIALS FOR ANY AND ALL ELEMENTS OF STORM DRAIN SYSTEM INSTALLED WITHIN 2-FEET OF BUILDINGS OR OTHER STRUCTURES.
  - ALL STORM DRAIN SERVICES SHALL BE SEPARATED FROM WATER MAIN AND LATERALS IN COMPLIANCE WITH OREGON HEALTH AUTHORITY (OAR 333-061-0050 (9)) AND OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
  - SEE LANDSCAPE DRAWINGS FOR PLANTING PLAN, INCLUDING INFORMATION ABOUT PLANT MATERIALS AND DENSITY.
  - A PORTION OF EXISTING CONCRETE PAVEMENT AND WALLS IN THE LOADING DOCK AREA SHALL BE REMOVED AND REPLACED, PER THE DRAWINGS.



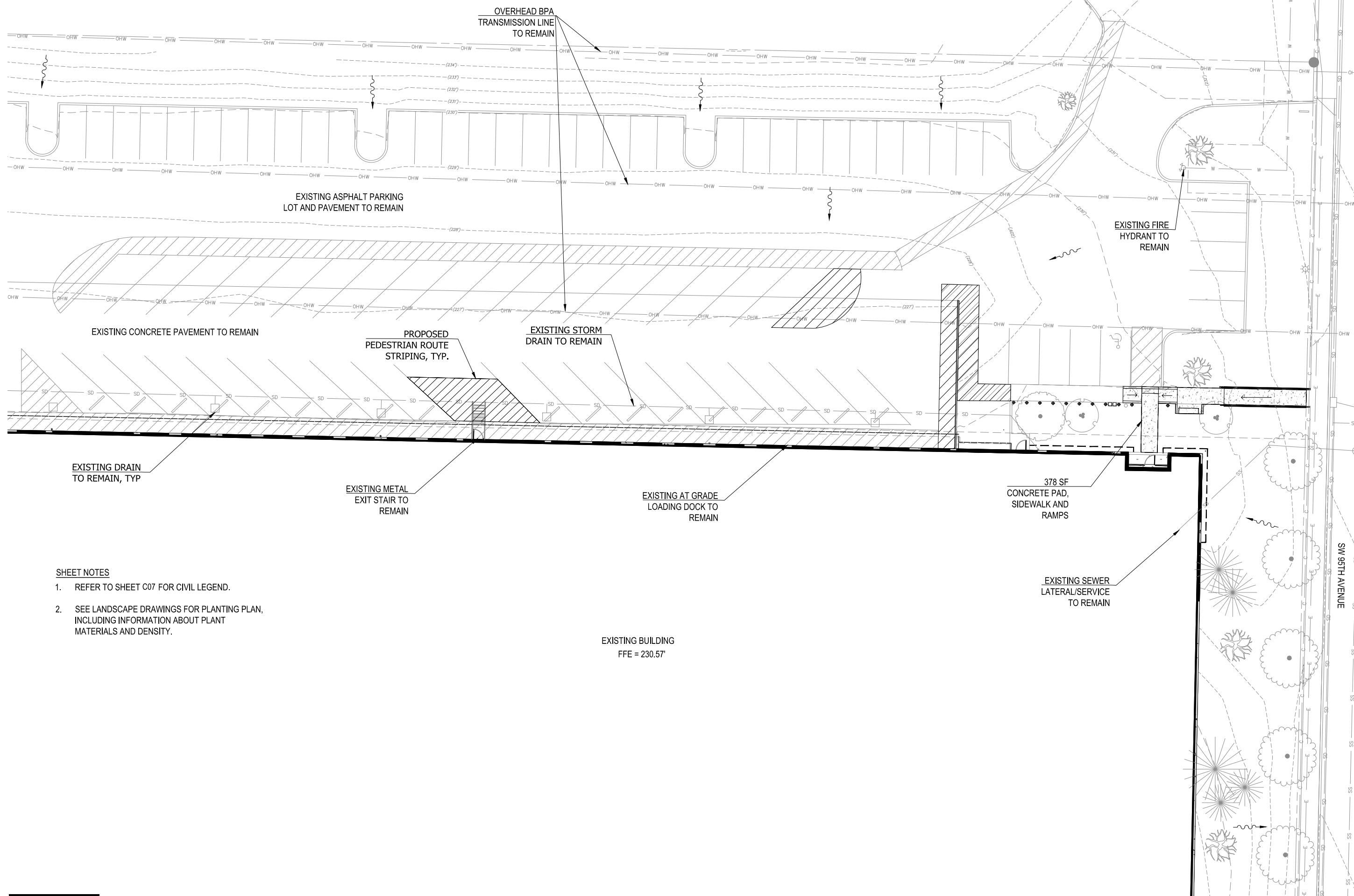
- CONSTRUCTION NOTES**
1. SAWCUT EXISTING ASPHALT, PER DETAIL 8, SHEET C12

- SHEET NOTES**
1. REFER TO SHEET C07 FOR CIVIL LEGEND.
  2. SEE LANDSCAPE DRAWINGS FOR PLANTING PLAN, INCLUDING INFORMATION ABOUT PLANT MATERIALS AND DENSITY.

- PAVING LEGEND**
-  VEHICULAR ASPHALT PAVEMENT
  -  PEDESTRIAN CONCRETE PAVEMENTS
  -  SAWCUT EXISTING ASPHALT PER 8/C08







- SHEET NOTES**
1. REFER TO SHEET C07 FOR CIVIL LEGEND.
  2. SEE LANDSCAPE DRAWINGS FOR PLANTING PLAN, INCLUDING INFORMATION ABOUT PLANT MATERIALS AND DENSITY.

EXISTING BUILDING  
FFE = 230.57'





**CONSTRUCTION NOTES**

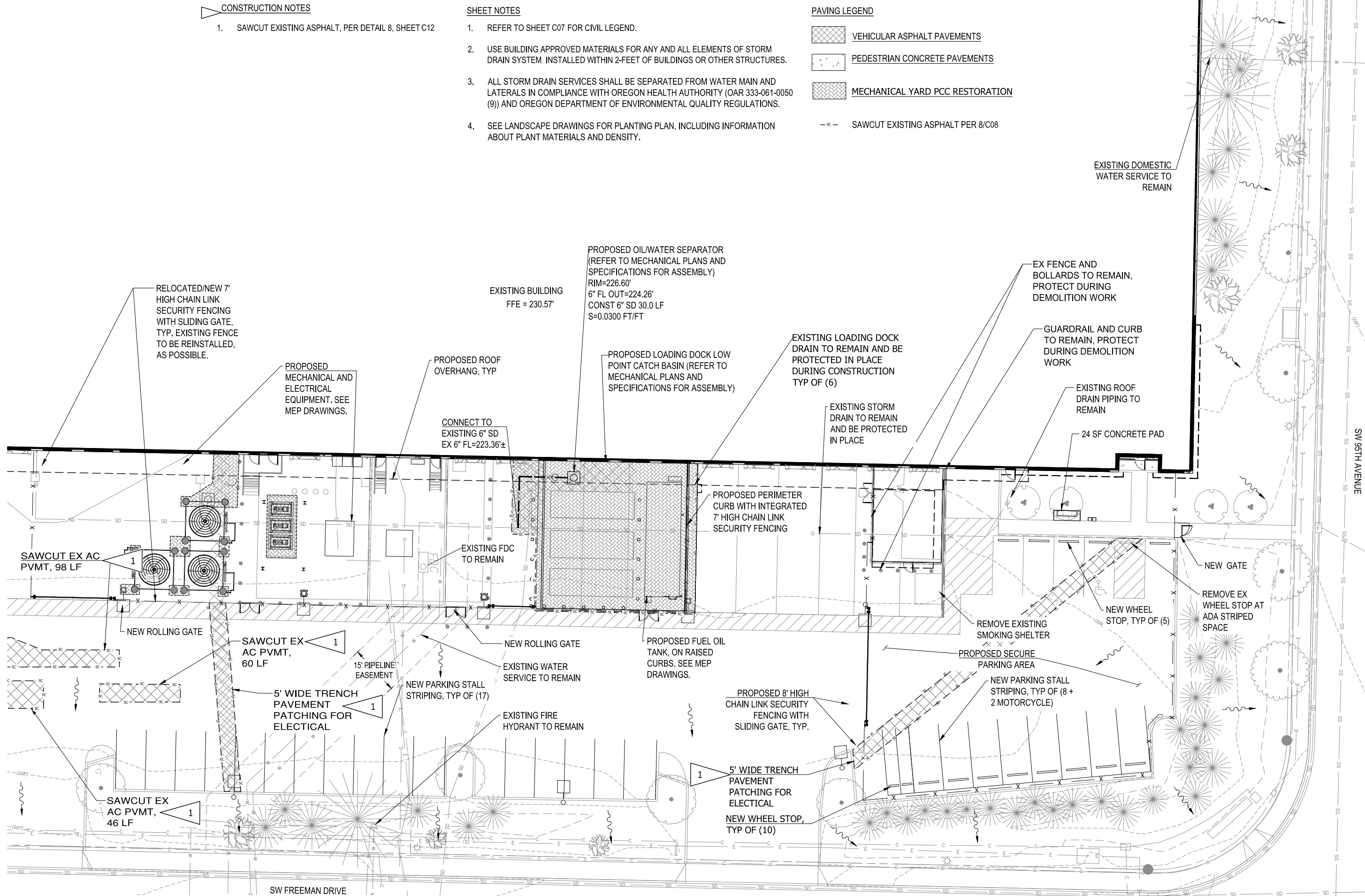
1. SAWCUT EXISTING ASPHALT, PER DETAIL 8, SHEET C12

**SHEET NOTES**

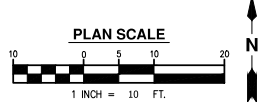
1. REFER TO SHEET C07 FOR CIVIL LEGEND.
2. USE BUILDING APPROVED MATERIALS FOR ANY AND ALL ELEMENTS OF STORM DRAIN SYSTEM INSTALLED WITHIN 2-FEET OF BUILDINGS OR OTHER STRUCTURES.
3. ALL STORM DRAIN SERVICES SHALL BE SEPARATED FROM WATER MAIN AND LATERALS IN COMPLIANCE WITH OREGON HEALTH AUTHORITY (OAR 333-061-0050 (9)) AND OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
4. SEE LANDSCAPE DRAWINGS FOR PLANTING PLAN, INCLUDING INFORMATION ABOUT PLANT MATERIALS AND DENSITY.

**PAVING LEGEND**

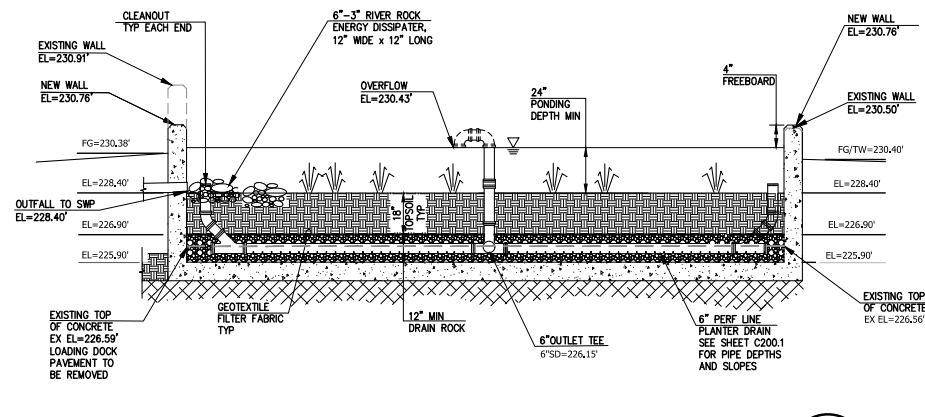
-  VEHICULAR ASPHALT PAVEMENTS
-  PEDESTRIAN CONCRETE PAVEMENTS
-  MECHANICAL YARD PCC RESTORATION
-  SAWCUT EXISTING ASPHALT PER 8/C08



**North Valley Complex Renovation**  
 Design Review Package  
 23 September, 2021





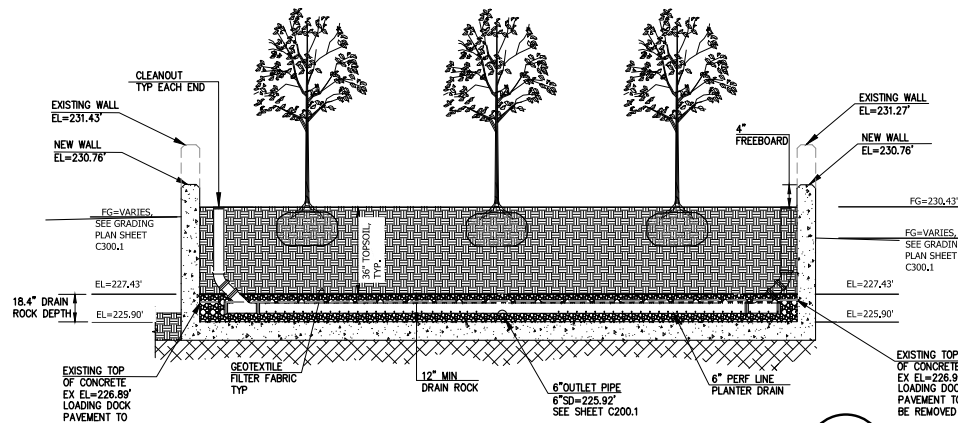


STORMWATER PLANTER SECTION A-A

NOT TO SCALE

1  
C12

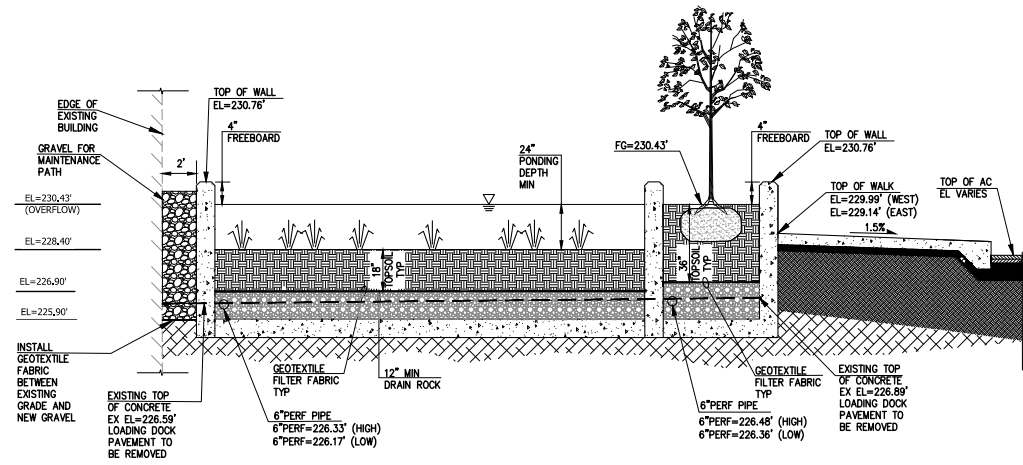
NOTE: REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR TREE AND LANDSCAPE PLANTINGS.



STORMWATER PLANTER SECTION B-B

NOT TO SCALE

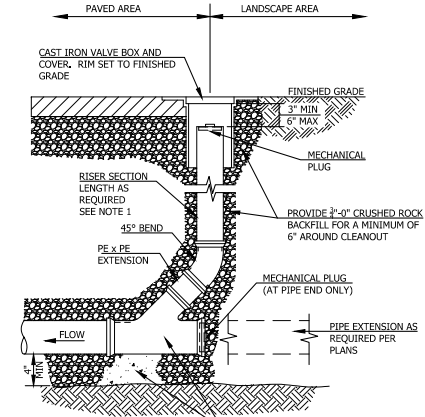
2  
C12



STORMWATER PLANTER SECTION C-C

NOT TO SCALE

3  
C12

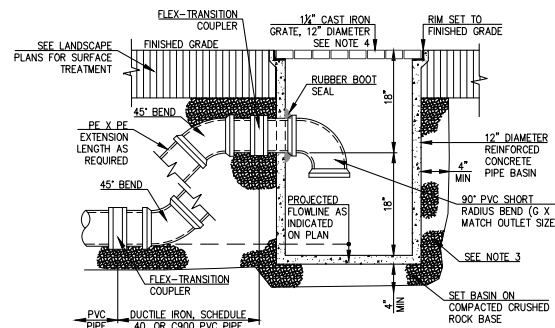


STANDARD CLEANOUT

NOT TO SCALE

4  
C12

- NOTES:
1. RISER PIPE TO BE SAME SIZE AS MAINLINE, RISER NOT TO EXCEED 12" IN DIAMETER, MAINLINES GREATER THAN 12" SHALL HAVE 12" RISER PIPE.
  2. WHERE RISER LENGTH EXCEEDS 5', RISER PIPE SHALL BE C900 AND FITTINGS SHALL BE DUCTILE IRON.

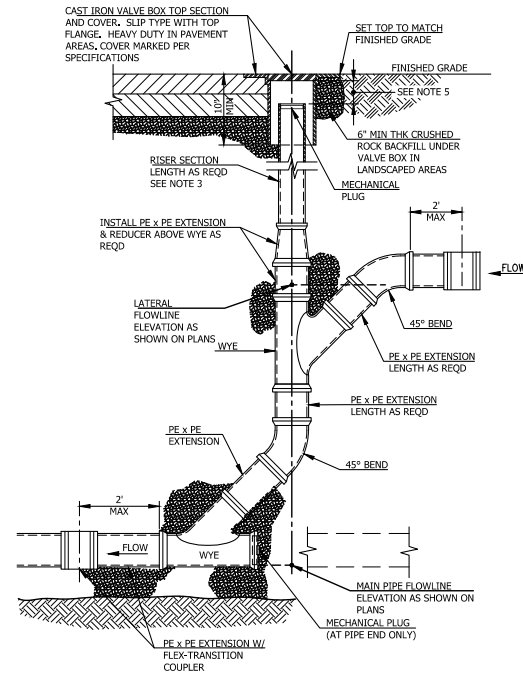


FILTRATION STORMWATER PLANTER

NOT TO SCALE

7  
C12

NOTE: THE DETAIL HEREIN IS THE CITY'S STANDARD DETAIL, ALTERED FOR PROJECT SPECIFIC MATERIALS AND DEPTHS, REFER TO SECTIONS ON SHEET C100.1 FOR MORE DETAILED STORMWATER PLANTER DESIGN AND CONSTRUCTION REQUIREMENTS FOR THE PROPOSED PROJECT.



VERTICAL DROP TRANSITION CLEANOUT

NOT TO SCALE

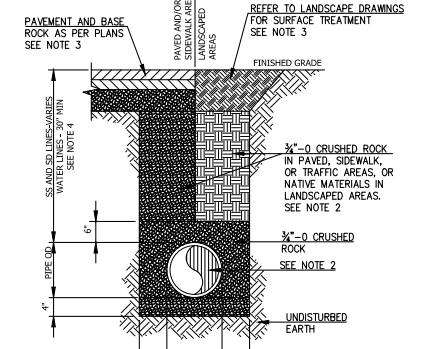
9  
C12

- NOTES:
1. TRACER WIRE SHALL ENTER STRUCTURE WITH RISER PIPE. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. VERIFY FREE END OF WIRE IS WITHIN EASY REACH OF OPENING IN TOP SECTION.
  2. DIAMETER OF ALL PIPE AND FITTINGS TO MATCH LATERAL DIAMETER UNLESS NOTED OTHERWISE.
  3. RISER PIPE SIZE: 4", 6", OR 8" DIA LATERAL - 4" DIA RISER PIPE 10" DIA & LARGER LATERAL - 6" DIA RISER PIPE
  4. WHERE VERTICAL DROP BETWEEN FLOW LINES EXCEEDS 5 FEET, PIPE TO BE C900 PVC AND FITTINGS TO BE DUCTILE IRON.
  5. ADJUST END OF RISER PIPE TO MAINTAIN 3" MIN AND 6" MAX CLEARANCE BETWEEN END PIPE AND BOTTOM OF VALVE BOX LID.

AREA DRAIN

NOT TO SCALE

5  
C12

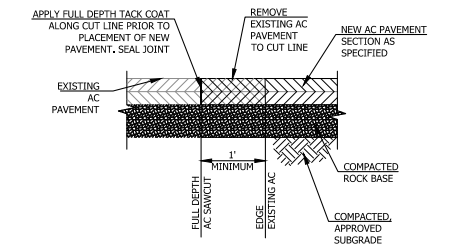


TYPICAL TRENCHING AND BACKFILL SECTION

NOT TO SCALE

6  
C12

- NOTES:
1. WATER LINES THAT PARALLEL SANITARY SEWER LINES SHALL BE LOCATED A MINIMUM OF 12" ABOVE SEWER LINES, WHERE SERVICES ARE NOT HORIZONTALLY SEPARATED BY 10'.
  2. WITHIN 5' OF A BUILDING STRUCTURE, BUILDING CODE APPROVED PIPE MATERIAL AND 3/4"-0 CRUSHED ROCK BACKFILL SHALL BE USED.
  3. SAWCUT, REMOVE AND REPAIR EXISTING SURFACES TO MATCH EXISTING ASPHALT, CONCRETE, OR LANDSCAPING IN AREAS WHICH DO NOT RECEIVE NEW IMPROVEMENTS. PROVIDE 4" MIN DEPTH ASPHALT PAVEMENT, 4" MIN DEPTH CONCRETE PAVEMENT, OR MATCH EXISTING PAVEMENT DEPTH, WHICHEVER IS GREATER.
  4. 36" MINIMUM FOR FIRE SERVICE PIPES UNDER AREAS TRAFFICKED BY VEHICLES, (NFPA 24, 10-4)
  5. INSTALL TRACER WIRE ON ANY PIPELINE(S) CONSTRUCTED OF NON-METALLIC PIPE MATERIAL.



TYPICAL SAWCUT SECTION

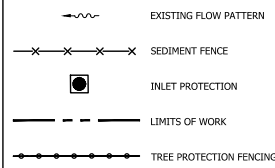
NOT TO SCALE

8  
C12

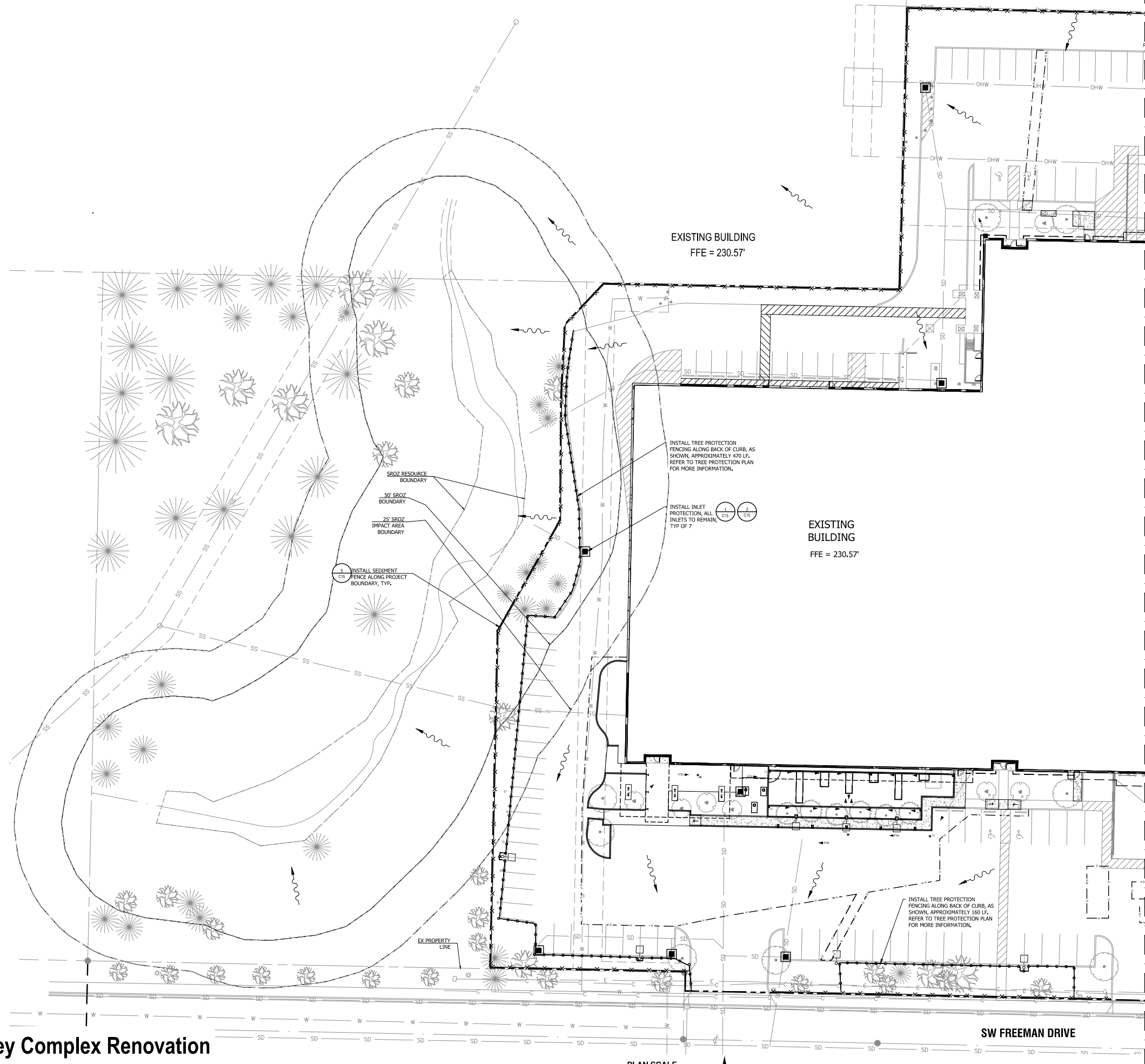
**SHEET NOTES**

1. REFER TO SHEET C13 FOR EROSION CONTROL DETAILS, GENERAL NOTES, BMP MATRIX AND INSPECTION FREQUENCY REQUIREMENTS.
2. REFER TO SHEETS C08 - C11 FOR PROPOSED SITE GRADING AND PAVING.
3. REFER TO TOPOGRAPHICAL SURVEY DRAWING FOR EXISTING SITE CONDITIONS ENCOMPASSING THE DEVELOPMENT SITE.

**EROSION CONTROL LEGEND**



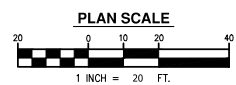
BMP	BEST MANAGEMENT PRACTICE
CONST	CONSTRUCT
DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY
ESC/ESCP	EROSION AND SEDIMENT CONTROL PLAN
EX	EXISTING
FFE	FINISHED FLOOR ELEVATION
LF	LINEAL FEET
MH	MANHOLE
ROW	RIGHT OF WAY
STM	STORMWATER
TYP	TYPICAL



MATCH LINE - SHEET C14



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 23 September, 2021








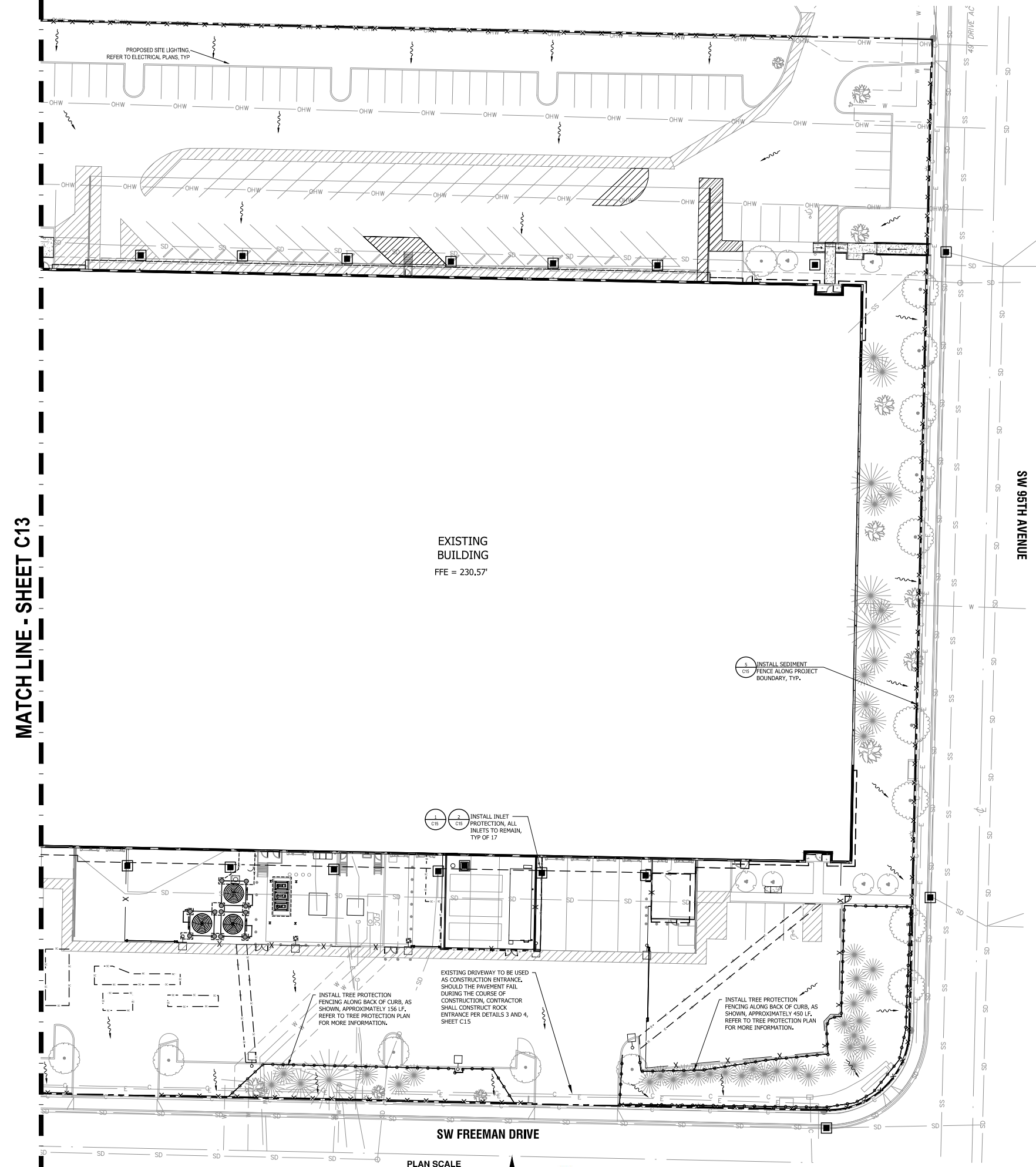


**SHEET NOTES**

1. REFER TO SHEET C15 FOR EROSION CONTROL DETAILS, GENERAL NOTES, BMP MATRIX AND INSPECTION FREQUENCY REQUIREMENTS.
2. REFER TO SHEETS C08-C11 FOR PROPOSED SITE GRADING AND PAVING.
3. REFER TO TOPOGRAPHICAL SURVEY DRAWING FOR EXISTING SITE CONDITIONS ENCOMPASSING THE DEVELOPMENT SITE.

**EROSION CONTROL LEGEND**

	EXISTING FLOW PATTERN
	SEDIMENT FENCE
	INLET PROTECTION
	LIMITS OF WORK
	TREE PROTECTION FENCING
BMP	BEST MANAGEMENT PRACTICE
CONST	CONSTRUCT
DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY
ESC/ESCP	EROSION AND SEDIMENT CONTROL/PLAN
EX	EXISTING
FFE	FINISHED FLOOR ELEVATION
LF	LINEAL FEET
MH	MANHOLE
ROW	RIGHT OF WAY
STM	STORMWATER
TYP	TYPICAL

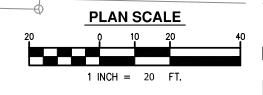


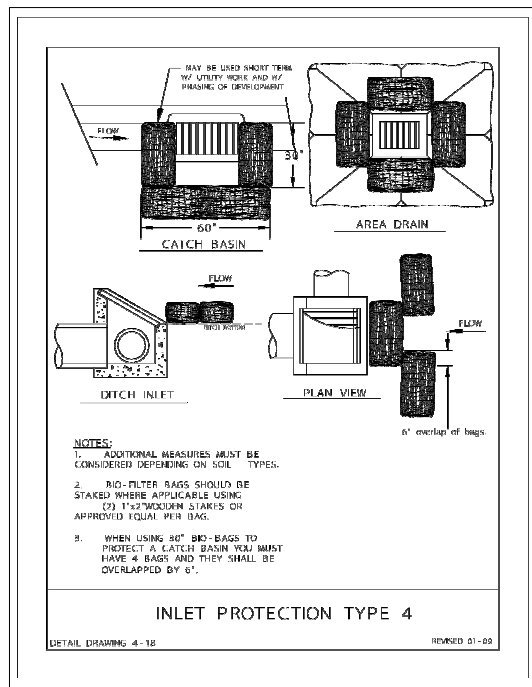
EXISTING BUILDING  
FFE = 230.57'

MATCH LINE - SHEET C13

SW 96TH AVENUE

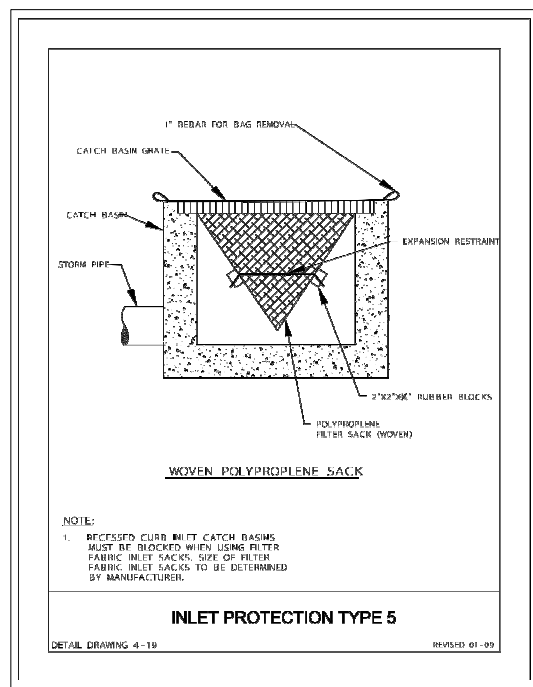
SW FREEMAN DRIVE





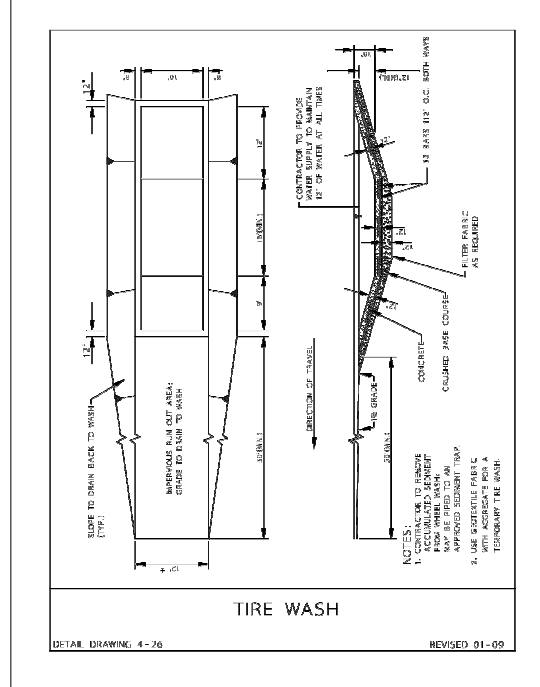
**INLET PROTECTION TYPE 4**  
NOT TO SCALE

1  
C15



**INLET PROTECTION TYPE 5**  
NOT TO SCALE

2  
C15



**TIRE WASH**  
NOT TO SCALE

3  
C15

**STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:**

- WHEN RAINFALL AND RUNOFF OCCURS DAILY INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND DISCHARGE CATCH BASINS MUST BE PROVIDED BY SOME ONE KNOWLEDGEABLE AND EXPERIENCED IN THE PRINCIPLES, PRACTICES, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS WHO WORKS FOR THE PERMITTEE.
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY 31 EACH YEAR.
- DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY.
- SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION, THEY MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
- ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABLE, U-SHAPED FILTER BAG IS REQUIRED FOR ALL CURB INLET CATCH BASINS.
- SIGNIFICANT AMOUNTS OF SEDIMENT WHICH LEAVES THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRING OF THE DISCHARGE WITHIN THE SAME 24 HOURS, ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIME FRAME.
- SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
- SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3RD THE BARRIER HEIGHT, AND PRIOR TO THE CONTROL MEASURES REMOVAL.
- CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50% AND AT COMPLETION OF PROJECT.
- ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
- THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS, NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED, TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ONE.
- OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH CURRENT CLEAN WATER SERVICES STANDARDS AND STATE, AND FEDERAL REGULATIONS.
- PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD, UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT.
- NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
- PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPs THAT MUST BE INSTALLED ARE GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE BMPs MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE AND PERCENTAGES OF SEED IN THE MIX ARE AS IDENTIFIED ON THE PLANS OR AS SPECIFIED BY THE DESIGN ENGINEER.
- WATER-TIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMPs; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
- ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
- THE ESC PLAN MUST BE KEPT ONSITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
- THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS, DURING THE CONSTRUCTION PERIOD. THESE MEASURES SHALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS.
- WRITTEN ESC LOGS ARE SUGGESTED TO BE MAINTAINED ONSITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST.
- IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMPs MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING, OR OTHER APPROVED MEASURES.
- ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD.

**INSPECTION FREQUENCY:**

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING, AT LEAST ONCE EVERY FOURTEEN (14) DAYS REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY MONTH.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5. PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS.	MONTHLY, RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

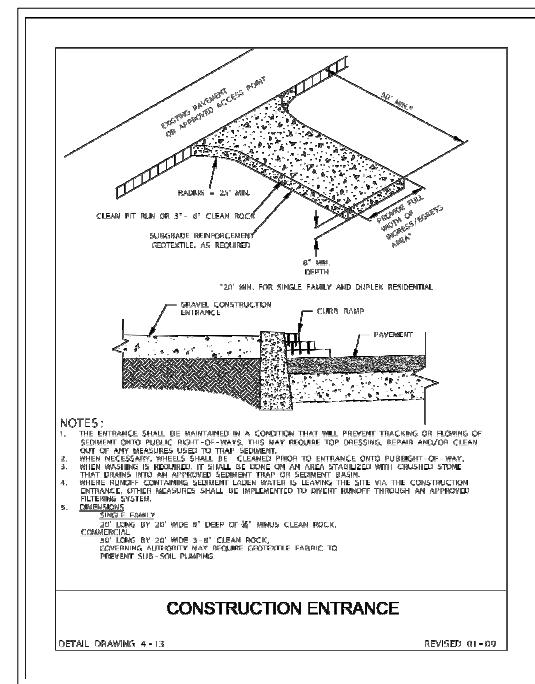
**ATTENTION EXCAVATORS:**

OREGON LAW REQUIRES YOU TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

**RATIONALE STATEMENT**

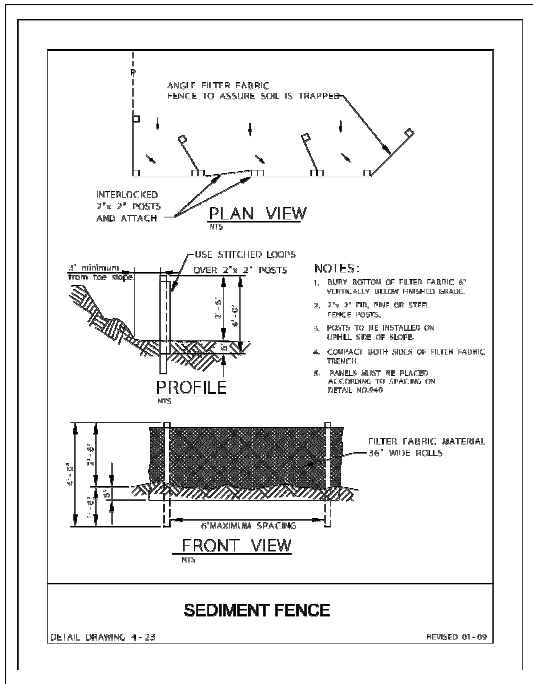
A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMPs WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL



**CONSTRUCTION ENTRANCE**  
NOT TO SCALE

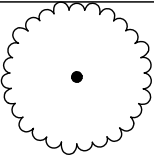
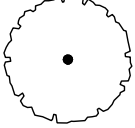
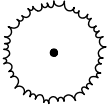


4  
C15




**SEDIMENT FENCE**  
NOT TO SCALE

5  
C15






















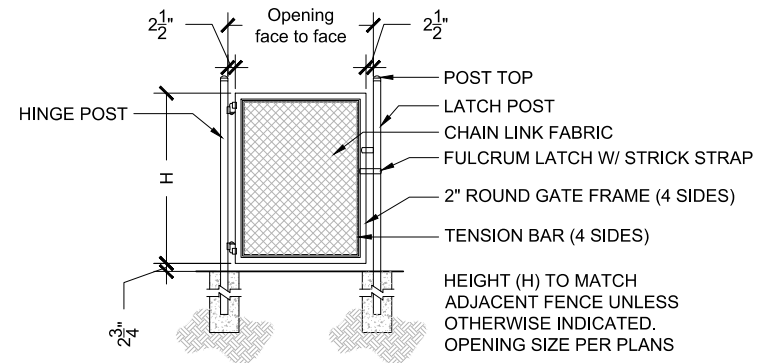
PLANTING LEGEND					
TREES					
	BOTANICAL NAME	COMMON NAME	SIZE	QTY	WATER USE
	QUERCUS SUBER	CORK OAK	>2" CAL. >10' HEIGHT	9	LOW
	PLATANUS ACERIFOLIA 'YARWOOD'	YARWOOD LONDON PLANE	>2" CAL. >10' HEIGHT	13	MEDIUM
	POPULUS TREMULOIDES	QUAKING ASPEN	>1.5" CAL.	6	MEDIUM
	ARBUTUS X 'MARINA'	MARINA STRAWBERRY TREE	6-8' HEIGHT MULTI-STEM	13	LOW
	EXISTING TREE	EXISTING TREE	SEE PLAN		N/A

TURF					
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE/SPACING	QTY	WATER USE
	PT 701 LET IT GROW	PT LAWN SEED MIX	SEEDED		LOW

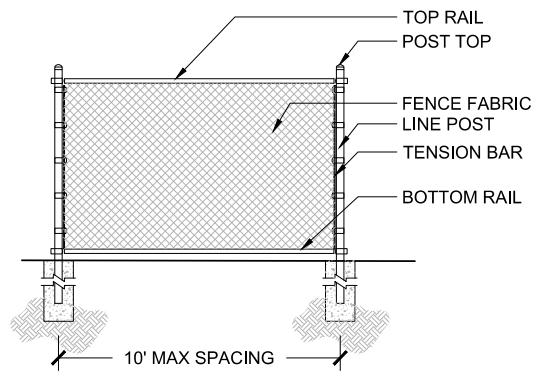
## LANDSCAPE GENERAL NOTES

1. PLANTING LOCATIONS IN UTILITY AREAS DETERMINED USING A 5' OFFSET FROM UTILITIES SURVEY PROVIDED BY CIVIL.
2. SHRUB AND GROUND COVER HATCHES ARE SHOWN ON PLANS. UNDERPLANT ALL TREES WITH THE ADJACENT SHRUB AND/ OR GROUND COVER AS INDICATED BY THE PLANS. PLANTS SHALL BE INSTALLED WITH TRIANGULAR SPACING.
3. PLANT GROUNDCOVERS TO WITHIN 12" OF TREE OR SHRUB ROOT BALLS.
4. ALL ROCKS AND DEBRIS THREE INCHES (3") AND LARGER SHALL BE REMOVED FROM PLANTING AREAS AND THEN FROM THE SITE TO A LEGAL SITE OF DISPOSAL. WHERE THE TURF IS TO BE LOCATED, ALL ROCKS AND DEBRIS ONE INCH (1") AND LARGER SHALL BE REMOVED FROM THE SITE TO A LEGAL SITE OF DISPOSAL.
5. ALL TREES WITHIN 5' OR LESS OF HARDSCAPE OR UTILITY LINES SHALL BE INSTALLED WITH A ROOT BARRIER. ROOT BARRIER SHALL BE INSTALLED PARALLEL TO HARDSCAPE SURFACE FOR A DISTANCE OF 10' FROM THE CENTER LINE OF THE TREE TRUNK IN BOTH DIRECTIONS, OR AS INDICATED ON PLAN. ROOT BARRIERS SHALL NOT BE WRAPPED AROUND THE ROOT BALL OF THE TREE.
6. ALL PLANTING BEDS - INCLUDING SLOPES - SHALL HAVE 3" (THREE INCH) THICK MULCH LAYER. "MULCH" SHALL BE FREE OF STICKS, STONES, CLAY OR OTHER FOREIGN MATERIAL. EXISTING MULCH ON SITE MAY BE MIXED WITH NEW MULCH. CONTRACTOR SHALL SUBMIT SAMPLE TO THE UNIVERSITY'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
7. ALL PLANTING SHALL BE GUARANTEED THROUGH THE ESTABLISHMENT PERIOD (SEE PLANTING SPECIFICATIONS).
8. AT COMPLETION OF THE ESTABLISHMENT PERIOD, APPLY COMMERCIAL FERTILIZER (15-15-15) AT 2LBS/1000SF TO TURF AREAS ONLY AND WATER IMMEDIATELY WITH A THOROUGH IRRIGATION CYCLE.
10. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL AREAS IN A WEED AND DEBRIS-FREE CONDITION DURING CONSTRUCTION, AND THROUGHOUT THE ESTABLISHMENT PERIOD.
11. PLANT MATERIAL SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE.
12. ALL PLANT MATERIAL QUANTITIES TO BE VERIFIED BY CONTRACTOR.
13. CONTRACTOR TO REPAIR AND REUSE ANY VIABLE EXISTING IRRIGATION ON SITE. ANY NEW IRRIGATION NEEDED WILL BE DESIGN/BUILD BY CONTRACTOR.
14. CONTRACTOR TO ASSUME THAT ALL EXISTING PLANTING IS TO BE REMOVED ANYWHERE WHERE NEW PLANTING IS DESIGNATED ON THE PLAN.

SHRUBS AND GROUND COVER					
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE/SPACING	QTY	WATER USE
	ACANTHUS MOLLIS	BEAR'S BREECHES	5 GAL	66	MEDIUM
	ARBUTUS UNEDO 'COMPACTA'	DWARF STRAWBERRY TREE	5 GAL	11	LOW
	ARCTOSTAPHYLOS 'HOWARD MCMINN'	HOWARD MCMINN MANZANITA	10 GAL	41	LOW
	ARCTOSTAPHYLOS UVA-URSI 'PACIFIC MIST'	PACIFIC MIST MANZANITA	1 GAL	106	LOW
	CHOISYA TERNATA	MEXICAN ORANGE	5 GAL	17	MEDIUM
	CHONDROPETALUM TECTORUM	CAPE RUSH	5 GAL	48	LOW
	CISTUS LADANIFER 'BLANCHE'	WHITE ROCKROSE	5 GAL	25	LOW
	CISTUS OBTUSIFOLIUS	COMPACT WHITE ROCKROSE	5 GAL	46	LOW
	CORTADERIA SELLOANA 'PUMILA'	DWARF PAMPAS GRASS	5 GAL	24	LOW
	FATSIA JAPONICA	JAPANESE ARALIA	5 GAL	17	MEDIUM
	LAVANDULA X INTERMEDIA 'GROSSO'	'GROSSO' LAVENDER	1 GAL	59	LOW
	LIGUSTRUM JAPONICUM 'TEXANUM'	WAXLEAF PRIVET	15 GAL	129	MEDIUM
	NASSELLA TENUISSIMA	MEXICAN FEATHER GRASS	1 GAL	1176	LOW
	PENNISETUM SPATHEOLATUM	SLENDER VELD T GRASS	1 GAL	105	LOW
	POLYSTICUM MUNITUM	WESTERN SWORD FERN	1 GAL	182	LOW
	ROSMARINUS OFFICINALIS 'TUSCAN BLUE'	UPRIGHT ROSEMARY	5 GAL	62	LOW
	SARCOCCA RUSCIFOLIA 'CONFUSA'	SWEETBOX	5 GAL	28	MEDIUM
	SCIRPUS ACUTUS	HARDSTEM BULRUSH	1 GAL / 12" O.C.	319	HIGH
	YUCCA 'BLUE SENTRY'	BLUE SENTRY YUCCA	5 GAL	23	LOW



**1 CHAIN LINK GATE**  
1/2" = 1'-0"



CHAIN LINK POST AND RAIL SIZING CHART

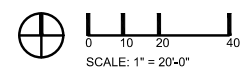
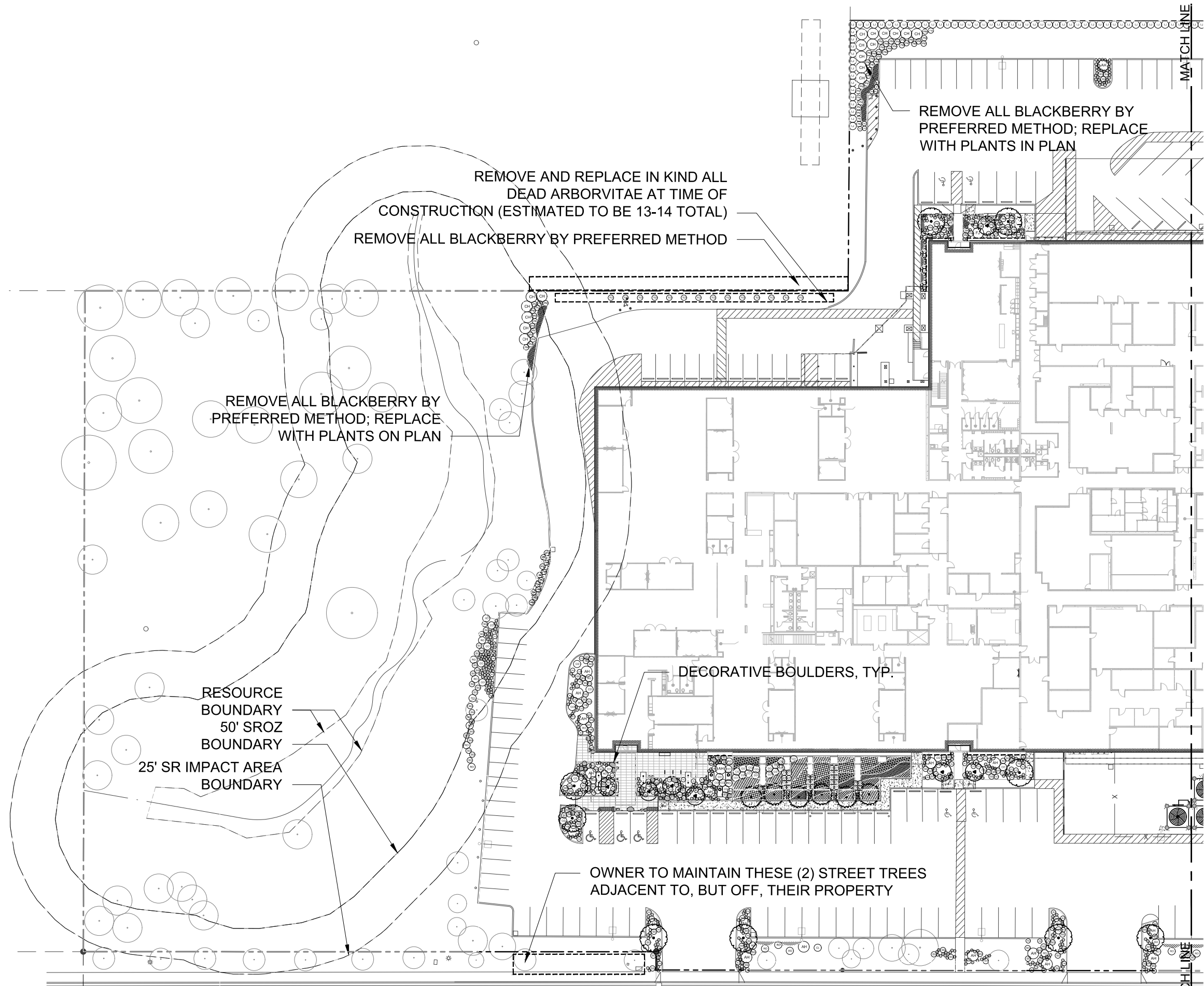
Fence Height	End, Gate, & Corner Posts	Line Posts	Top Rail	Mid/Brace Rail
6'	2.375"	2.375"	1.625"	1.625"
8'	4.0"	2.375"	1.625"	1.625"
10'	4.0"	2.875"	1.625"	1.625"
12'	4.0"	2.875"	1.625"	1.625"
16'	6.625"	4.0"	1.625"	1.625"
18'	6.625"	4.0"	1.625"	1.625"

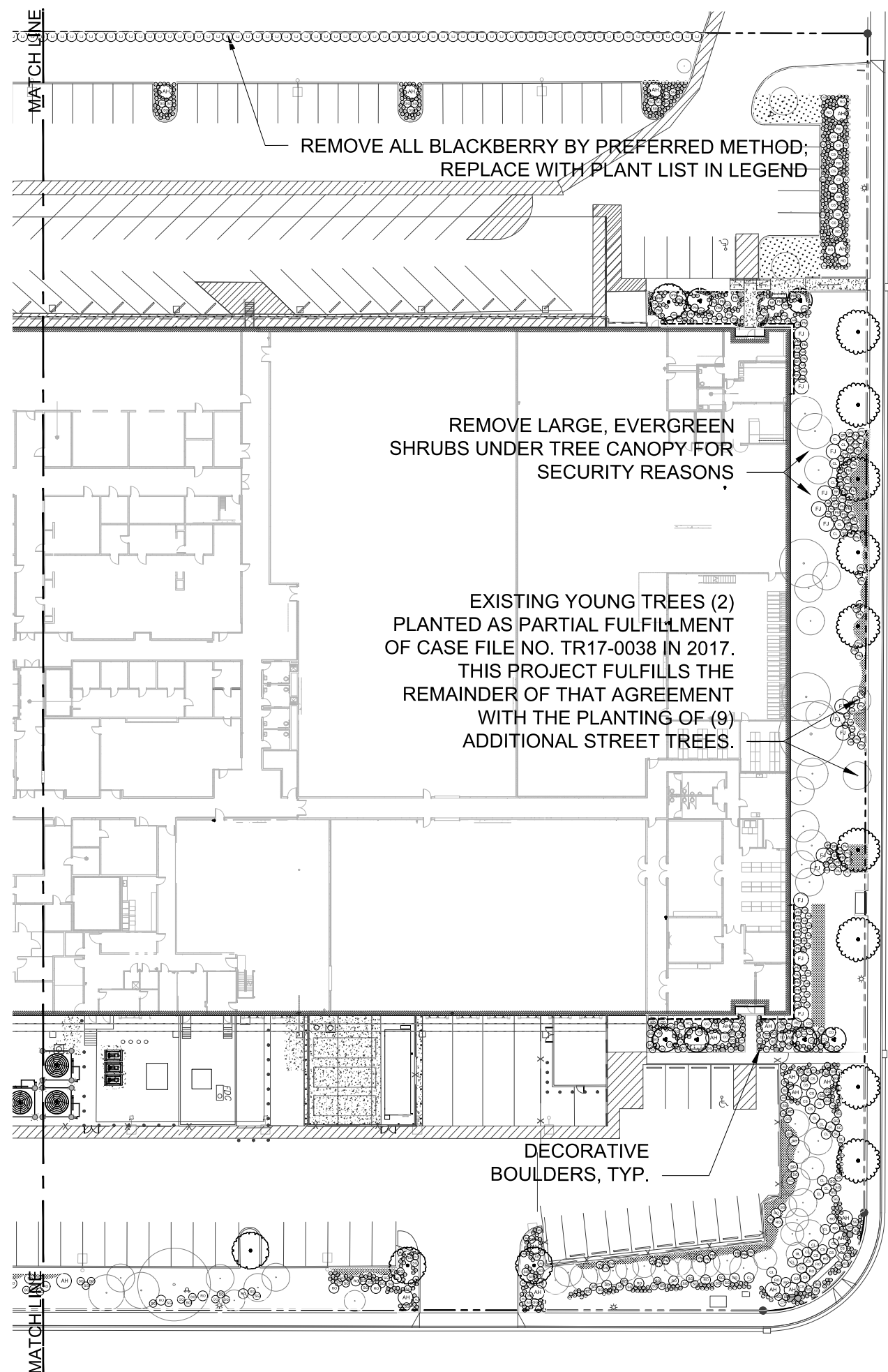
CHAIN LINK POST FOOTING SIZING CHART

Fence Height	End, Gate, & Corner Depth	End, Gate, & Corner Diameter	Line Post Depth	Line Post Diameter
6'	36"	10"	30"	10"
8'	42"	12"	36"	10"
10'	48"	16"	42"	12"
12'	54"	16"	48"	12"
16'	66"	26"	60"	16"
18'	72"	26"	66"	16"

**2 CHAIN LINK FENCE**  
1/2" = 1'-0"











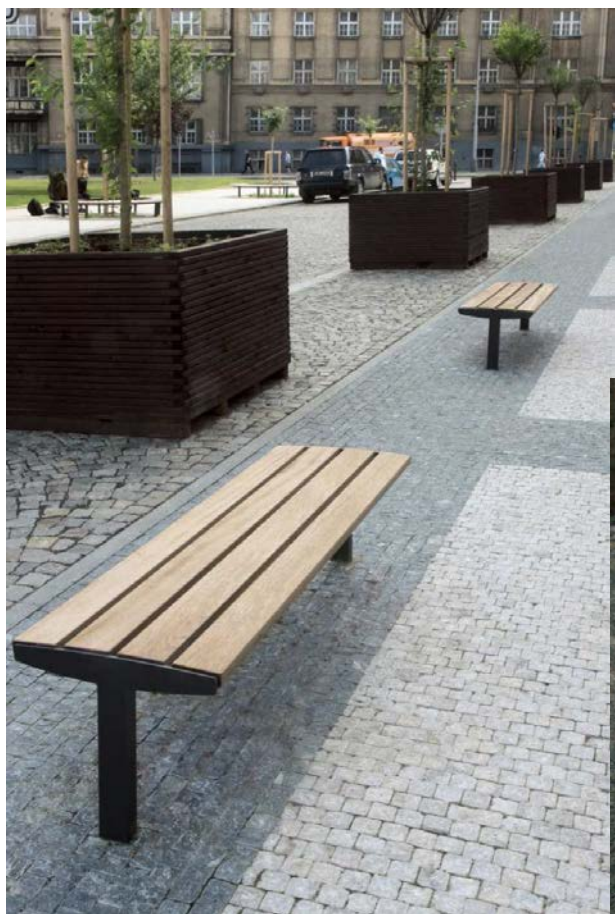
**SITE BOULDERS**



**TRASH AND RECYCLING  
CONTAINERS**  
(RAL7021)



**BICYCLE RACKS**  
(RAL7021)



(RESYSTA C02)  
(RAL 7021)  
**SITE BENCHES**



(PEARL)  
**SITE PAVING**





**KEYED NOTES - SITE DEVELOPMENT PLAN**

- 1 (E) CONC FILLED STEEL BOLLARD, SEE SURVEY
- 2 RELOCATED TRASH/CARDBOARD COMPACTOR/HAUL-AWAY CONTAINERS
- 3 NEW FENCE AND SCREENING - STYLE TO MATCH EXISTING
- 4 SECURE PARKING AREA, 8' FENCE
- 5 NEW EV PARKING
- 6 (3) NEW FLAGPOLES, FOOTING AND REDUNDANT IN-GROUND LIGHTING, SEE LIGHTING PLAN
- 7 NEW SLIDING GATE - STYLE TO MATCH EXISTING FENCING
- 8 NEW PV CANOPY AND PEDESTRIAN LEVEL ENTRY CANOPY ABOVE
- 9 NEW STORMWATER PLANTER
- 10 SITE SIGNAGE, SEE SIGNAGE PLAN
- 11 EXISTING SIDEWALKS
- 12 NEW BICYCLE PARKING, 2'x6' CLR
- 13 SROZ BOUNDARY
- 14 EXISTING ELECTRICAL EASEMENT
- 15 EXISTING METAL STAIR
- 16 NEW SHUTTLE DROP OFF AREA
- 17 TYP COMPACT SPOT 7-6'x15'
- 18 TYP PARKING SPOT 9'x18'
- 19 6 FLEET VEHICLE PARKING SPACES
- 20 EXISTING BUS STOP, ROUTE 5 SB TO WILSONVILLE STATION
- 21 TYPICAL LOADING BERTH 12' X 35'
- 22 EXISTING MECHANICAL SHELTER
- 23 SROZ IMPACT AREA
- 24 EXISTING EQUIPMENT PLATFORM ABOVE
- 25 EGRESS DOOR TO MAINTAIN ACCESS TO THE RIGHT-OF-WAY

- 26 TYP MOTORCYCLE SPACE 4'X8'
- 27 EXISTING FDC
- 28 EXISTING DOUBLE SWING 6'X7' GATE WITH KNOX BOX MOUNTED ON EXTERIOR OF GATE

**LEGEND**

- # EXISTING SPACE TO REMAIN
- # NEW PARKING SPACE
- c COMPACT SPACE
- m MOTORCYCLE SPACE
- c/v CARPOOL/VANPOOL PARKING
- EV ACCESSIBLE PARKING
- EV ELECTRIC VEHICLE PARKING
- - - - - PROPERTY LINE
- - - - - SITE FENCE
- - - - - SITE SETBACK (30'-0")

**REQUIRED BICYCLE PARKING**

OCCUPANCY	AREA (SF)	PARKING RATIO	REQUIRED	PROVIDED
OFFICE	42,847	1: 5,000 SF	9	
LAB / MANUFACTURING	53,654	1: 10,000 SF	6	
STOR / WAREHOUSE	71,576	1: 20,000 SF	4	
<b>TOTAL</b>			<b>19</b>	<b>21**</b>

\*\* 50% of total bicycle parking must be developed as long-term, secured spaces per City of Wilsonville Planning & Land Development Ordinance Chapter 4, Section 4.155.04(C)(2).

11 spaces are provided inside the building near the NW entry

**PARKING COUNTS**

TYPE	EXISTING*	PROVIDED	REQ'D	MAX ALLOWED
STANDARD	95	104	-	-
COMPACT	87	79	-	83
ADA	9	9	5	-
MOTORCYCLE	4	4	-	5
CAR/VANPOOL	-	11	11	-
(LOADING)**	(17)	(9)	(3)	-
<b>TOTAL</b>	<b>195</b>	<b>207</b>	<b>194</b>	

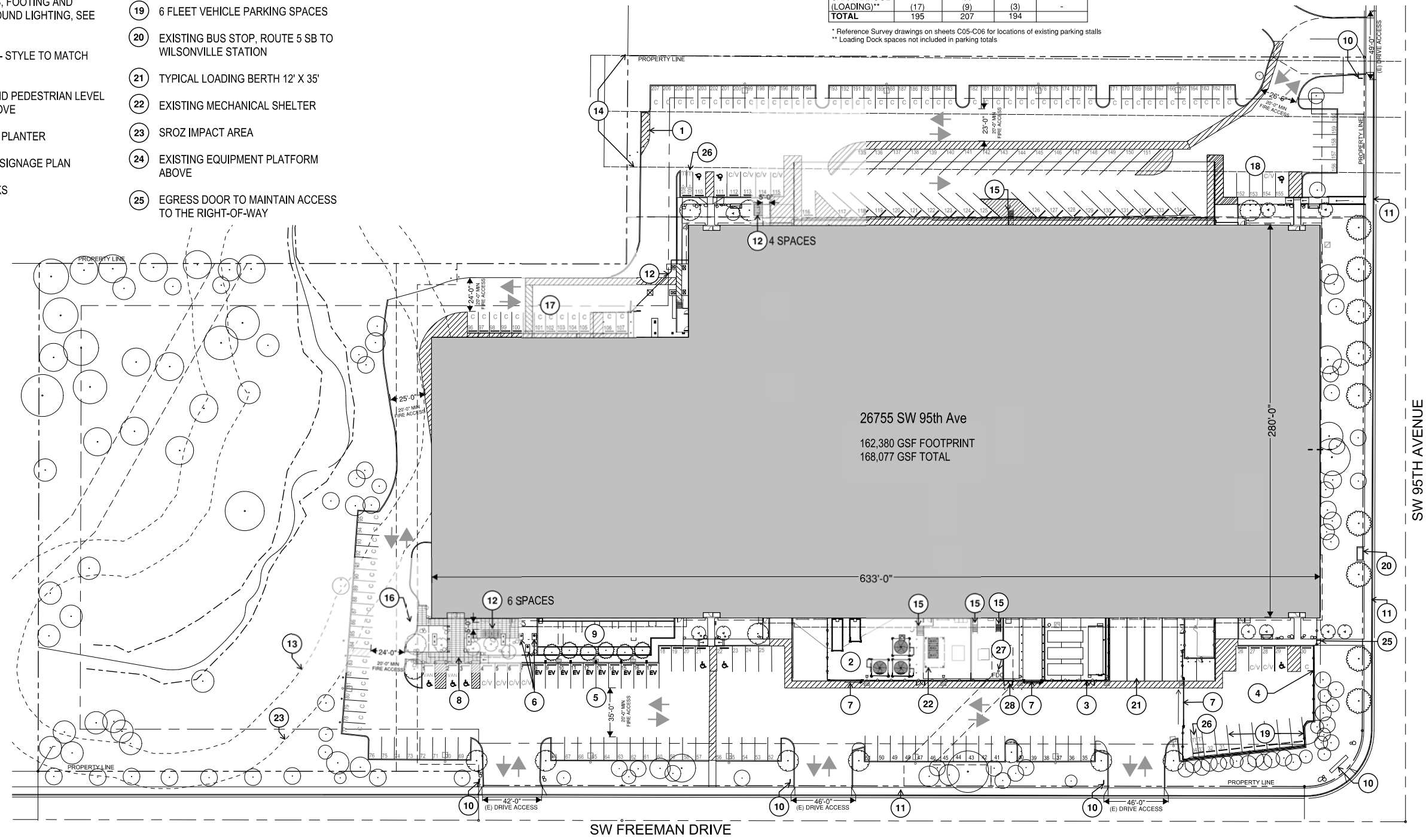
\* Reference Survey drawings on sheets C05-C06 for locations of existing parking stalls  
 \*\* Loading Dock spaces not included in parking totals

**PARKING SUMMARY**

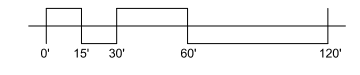
USE	LVL 01 AREA (SF)	MEZZ AREA (SF)	%	REQ'D/1,000 SF	REQ'D STALLS	25% REDUCTION**
OFFICE	42,847	-	25%	2.7:1,000 SF	116	-29
LAB/MANUF	53,654	-	32%	1.6:1,000 SF	86	-21
STOR/WAREHOUSE	65,879	5,697	43%	0.3:1,000 SF	22	N/A
<b>TOTALS</b>	<b>162,380</b>	<b>5,697</b>	<b>100%</b>		<b>224</b>	<b>174*</b>

\*\* The majority of employees split time between working in the lab and working at a desk in the office environment. Standard industry practice for traffic engineers in estimating trip generation and parking demand for shared-use facilities (in this case, office and laboratory) would be to estimate demand with each as a stand-alone facility, and then reduce accordingly (conservatively 25-30%) for employees or trips that use both (in other words, remove the double-counting from the estimating process).

\* Section 4.155.07 allows for a 10% reduction of the required parking spaces when a portion of the existing parking area is modified to accommodate or provide transit-related amenities such as transit stops, pull-outs, shelters and park and ride stations. A shuttle drop-off has been incorporated into the main entry redevelopment for a future DAS shuttle service to transport employees to and from nearby transit hubs.  
 The total of 174 required spaces could be reduced by 17 for a total of 157 required spaces.



1 SITE DEVELOPMENT PLAN  
 1" = 30'-0"





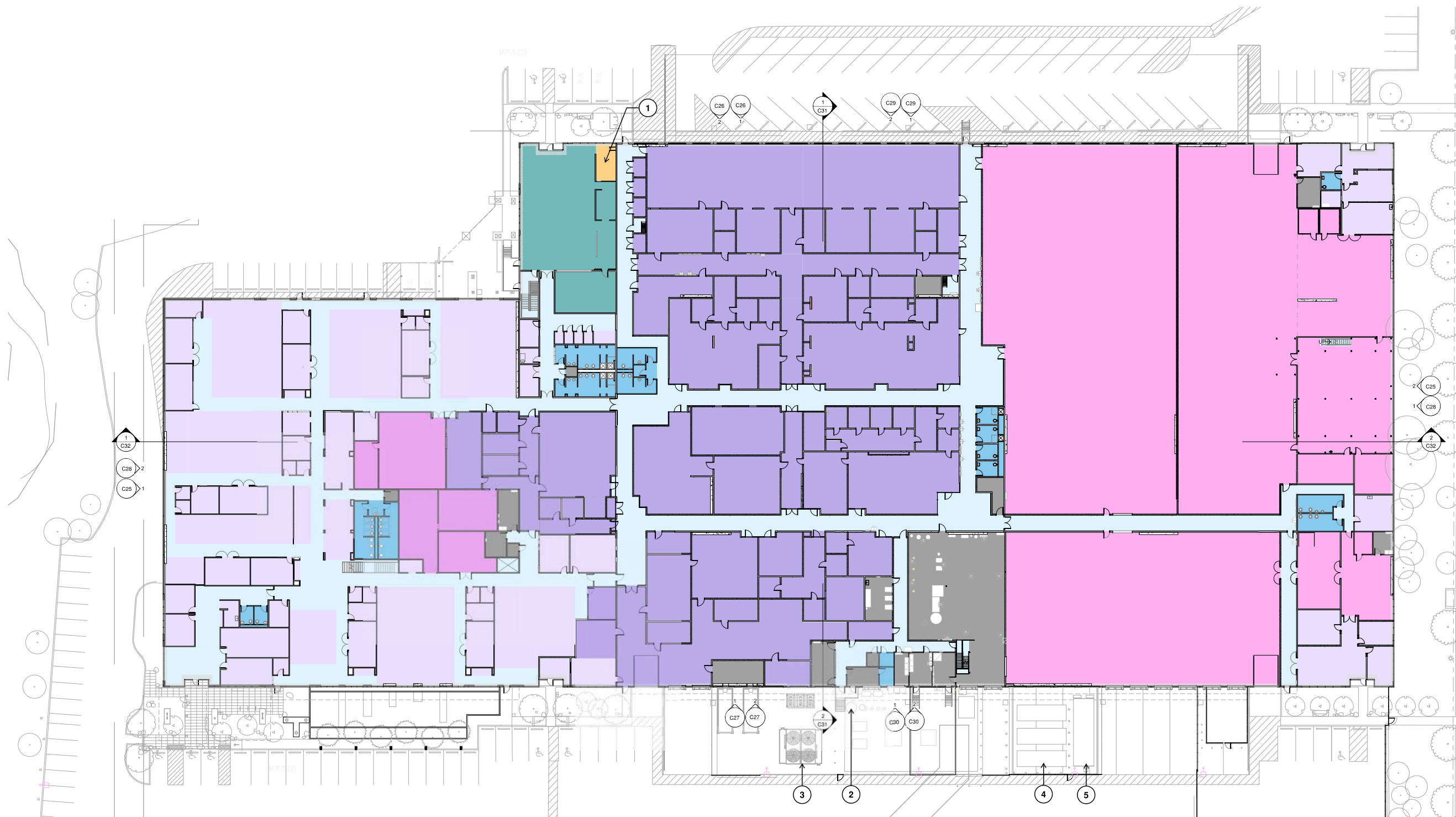
**LEGEND**

- BIKE STORAGE
- BREAK ROOM
- LOBBY / CIRCULATION
- MECH / ELEC
- RESTROOM
- STORAGE
- TENANT SPACE - LAB
- TENANT SPACE - OFFICE

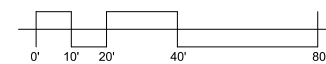
AREA SUMMARY			
USE	LEVEL 01 (SF)	MEZZANINE (SF)	TOTAL (SF)
OFFICE	42,847	-	42,847
LAB/MANUF	53,654	-	53,654
STOR/WAREHOUSE	65,879	5,697	71,576
<b>TOTAL</b>			<b>168,077</b>

**KEYED NOTES - LEVEL 1 FLOOR PLAN**

- ① 11 WALL HUNG BICYCLE RACKS
- ② EXISTING TANK AT 18' 7" HEIGHT
- ③ NEW CHILLERS AT 19' 3" HEIGHT
- ④ NEW GENERATORS AT 14' 7" HEIGHT
- ⑤ NEW FUEL TANK AT 11' 8" HEIGHT



① FLOOR PLAN - LEVEL 1  
1" = 20'-0"



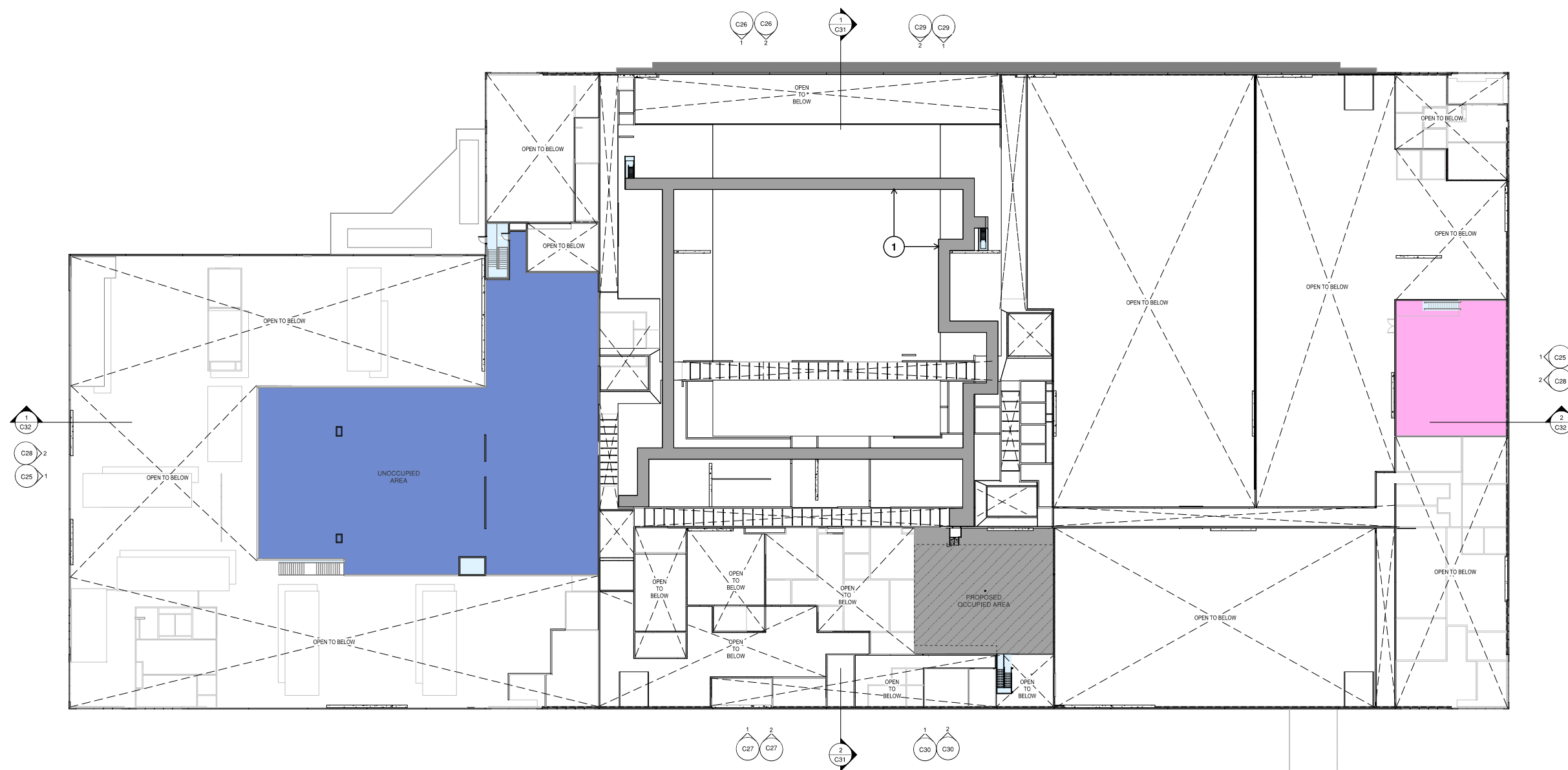
**LEGEND**

- LOBBY / CIRCULATION
- MECH / ELEC
- STORAGE
- UNOCCUPIED

AREA SUMMARY			
USE	LEVEL 01 (SF)	MEZZANINE (SF)	TOTAL (SF)
OFFICE	42,847	-	42,847
LAB/MANUF	53,654	-	53,654
STOR/WAREHOUSE	65,879	5,697	71,576
<b>TOTAL</b>			<b>168,077</b>

**KEYED NOTES - MEZZANINE FLOOR PLAN**

- ① MECHANICAL ACCESS MAINTENANCE PATH

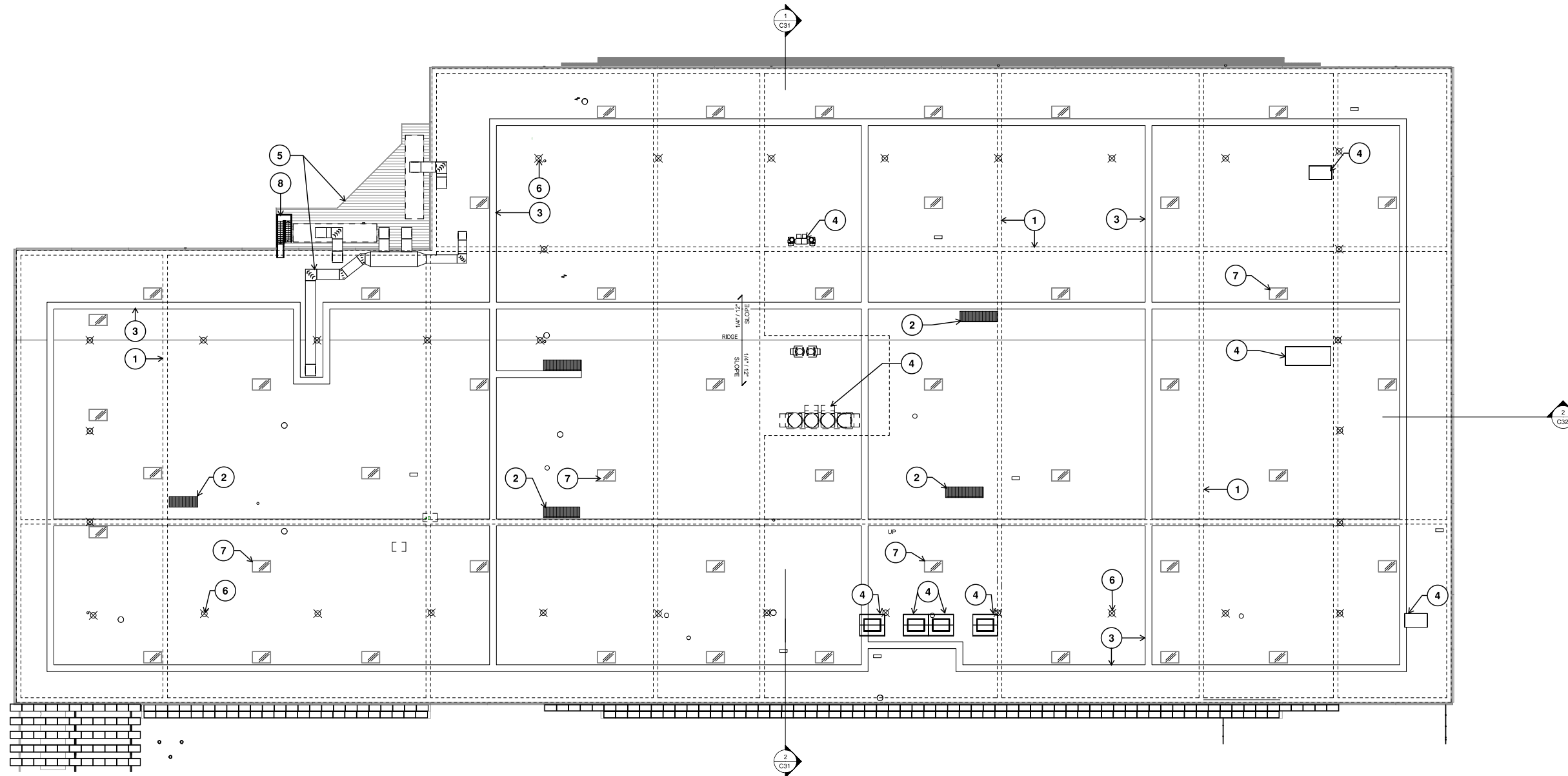


① FLOOR PLAN - MEZZANINE  
1" = 20'-0"



**KEYED NOTES - ROOF PLAN**

- ① NEW STRUCTURAL ROOF COLLECTOR
- ② NEW ROOF MONITOR
- ③ NEW WALKWAY PATH
- ④ NEW MEP EQUIPMENT
- ⑤ EXISTING MECHANICAL PLATFORM AND DUCTWORK TO REMAIN
- ⑥ NEW TIE DOWN ANCHORS, TYP
- ⑦ EXISTING SKYLIGHT, TYP.
- ⑧ NEW GALVANIZED METAL STAIR FOR ROOF MAINTENANCE ACCESS



① ROOF PLAN  
1" = 20'-0"





**A**



**B**



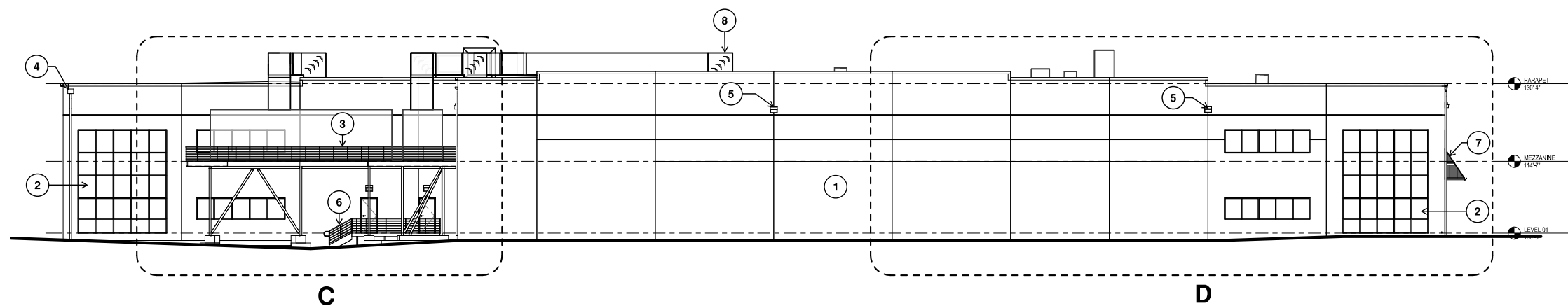
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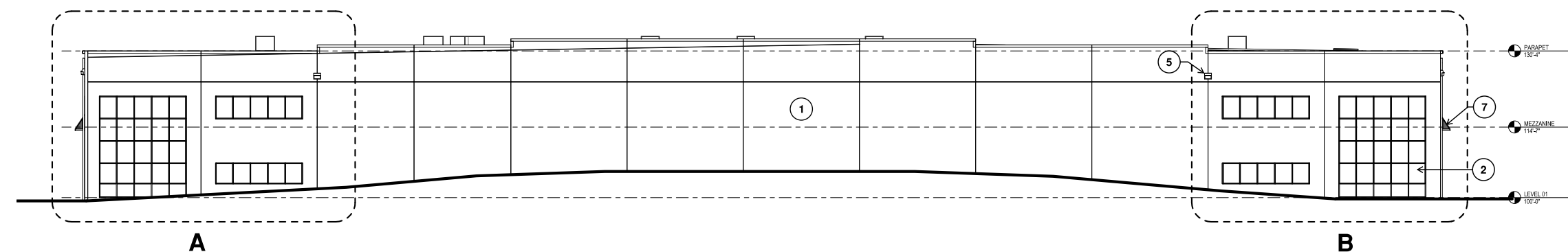
**D**

**KEYED NOTES - EXISTING ELEVATIONS**

- ① EXISTING PAINTED TILT UP CONCRETE WALLS
- ② EXISTING ANODIZED ALUMINUM FRAMED STOREFRONT ASSEMBLY WITH INSULATED GLAZING
- ③ EXISTING GALVANIZED MECHANICAL PLATFORM AND RAILING
- ④ EXISTING PAINTED DOWNSPOUT AND SCUPPER
- ⑤ EXISTING BUILDING MOUNTED LIGHTING
- ⑥ EXISTING PAINTED STEEL STAIR AND GUARDRAIL
- ⑦ EXISTING PAINTED METAL CANOPY WITH METAL SOFFIT
- ⑧ EXISTING MECHANICAL DUCTWORK TO REMAIN



① WEST ELEVATION  
1" = 10'-0"



② EAST ELEVATION  
1" = 10'-0"



**A**



**B**



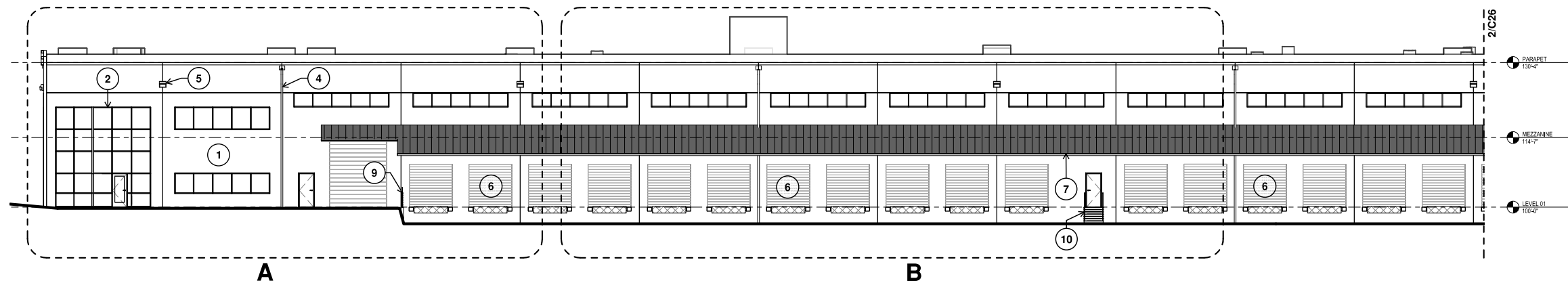
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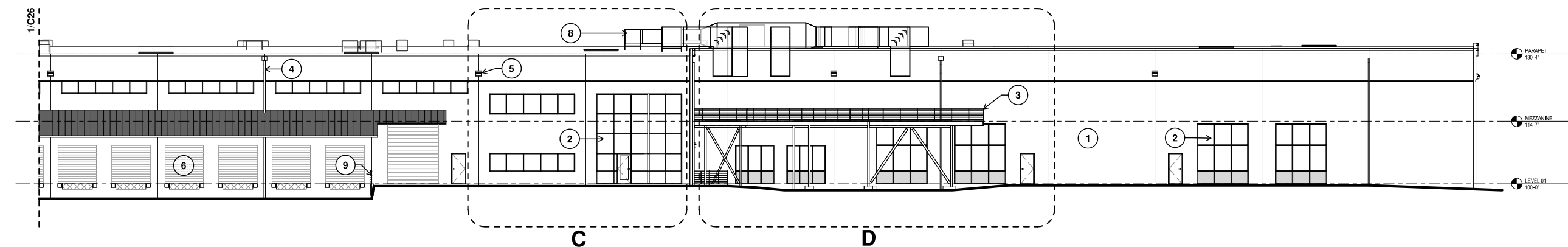
**D**

**KEYED NOTES - EXISTING ELEVATIONS**

- ① EXISTING PAINTED TILT UP CONCRETE WALLS
- ② EXISTING ANODIZED ALUMINUM FRAMED STOREFRONT ASSEMBLY WITH INSULATED GLAZING
- ③ EXISTING GALVANIZED MECHANICAL PLATFORM AND RAILING
- ④ EXISTING PAINTED DOWNSPOUT AND SCUPPER, TYP.
- ⑤ EXISTING BUILDING MOUNTED LIGHTING, TYP.
- ⑥ EXISTING PAINTED OVERHEAD DOOR
- ⑦ EXISTING PAINTED METAL CANOPY WITH METAL SOFFIT
- ⑧ EXISTING MECHANICAL DUCTWORK TO REMAIN
- ⑨ EXISTING PAINTED STEEL GAUDDRAIL
- ⑩ EXISTING PAINTED STEEL STAIR AND GAUDDRAIL



① NORTH ELEVATION 01  
1" = 10'-0"



② NORTH ELEVATION 02  
1" = 10'-0"





**A**



**B**



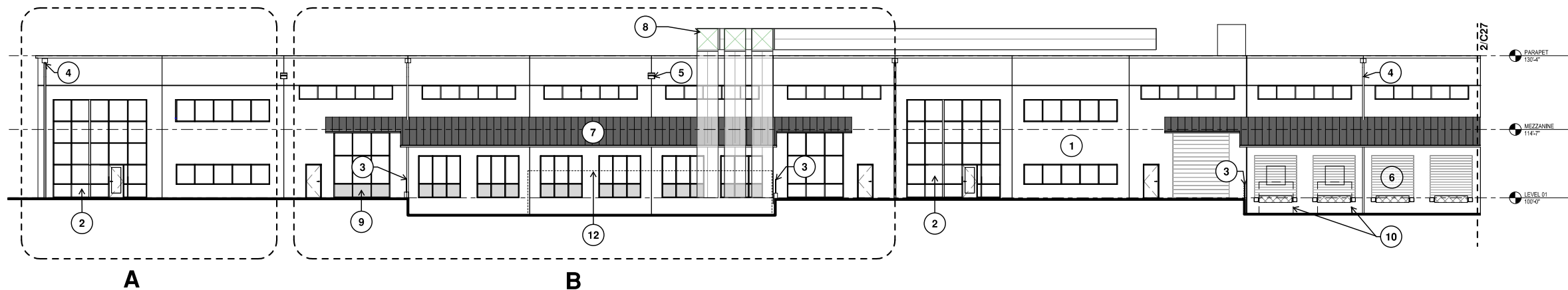
**C**



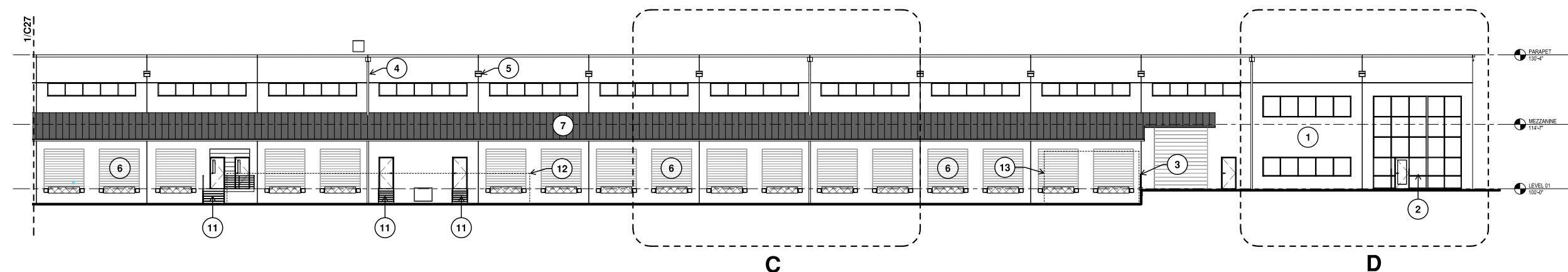
**D**

**KEYED NOTES - EXISTING ELEVATIONS**

- ① EXISTING PAINTED TILT UP CONCRETE WALLS
- ② EXISTING ANODIZED ALUMINUM FRAMED STOREFRONT ASSEMBLY WITH INSULATED GLAZING
- ③ EXISTING PAINTED STEEL GAURDRAIL
- ④ EXISTING PAINTED DOWNSPOUT AND SCUPPER, TYP.
- ⑤ EXISTING BUILDING MOUNTED LIGHTING, TYP.
- ⑥ EXISTING PAINTED OVERHEAD DOOR
- ⑦ EXISTING PAINTED METAL CANOPY WITH METAL SOFFIT
- ⑧ EXISTING MECHANICAL DUCTWORK TO BE DEMOLISHED
- ⑨ EXISTING WINDOW FILM, TYP.
- ⑩ EXISTING TRASH COMPACTORS
- ⑪ EXISTING PAINTED STEEL STAIR AND GUARDRAIL
- ⑫ EXISTING 7' H CHAIN LINK FENCE WITH PLASTIC SLATS
- ⑬ EXISTING 12' H CHAIN LINK FENCE WITH PLASTIC SLATS



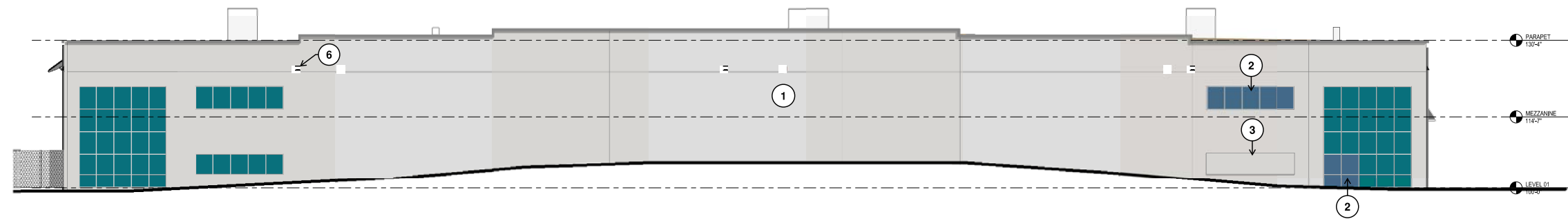
① SOUTH ELEVATION 01  
1" = 10'-0"



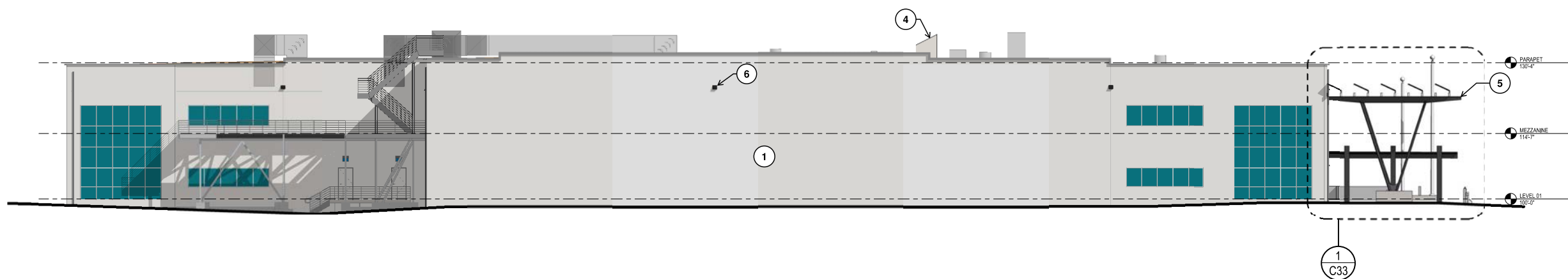
② SOUTH ELEVATION 02  
1" = 10'-0"

**KEYED NOTES - PROPOSED ELEVATIONS**

- ① EXISTING CONCRETE WALL TO BE PAINTED
- ② EXISTING STOREFRONT WINDOW TO RECEIVE OPAQUE SECURITY FILM
- ③ NEW CONCRETE INFILL, PAINTED TO MATCH BUILDING COLOR
- ④ NEW SKYLIGHT MONITOR, PAINTED
- ⑤ NEW PV ENTRY CANOPY, SEE CANOPY COMPOSITE
- ⑥ NEW BUILDING MOUNTED LIGHTING IN SAME LOCATION AS EXISTING, TYP.



① EAST ELEVATION  
1" = 10'-0"

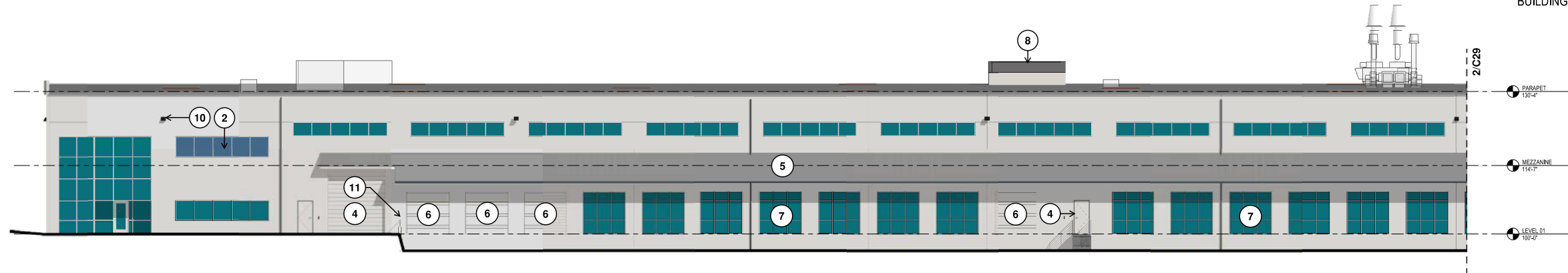


② WEST ELEVATION  
1" = 10'-0"

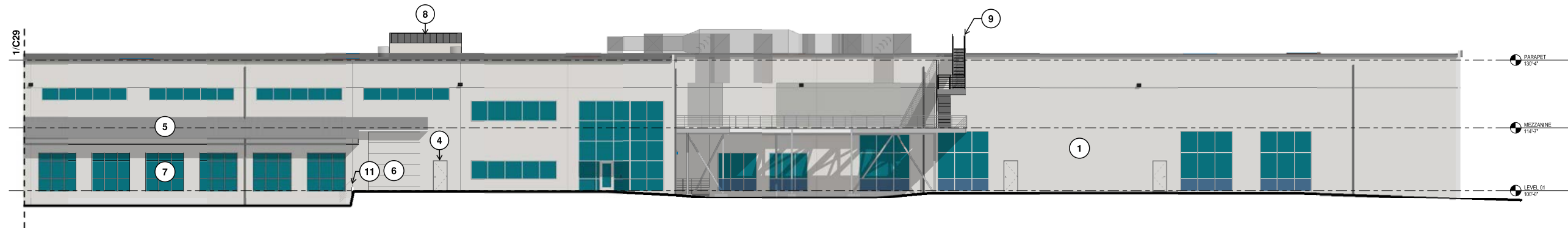


**KEYED NOTES - PROPOSED ELEVATIONS**

- ① EXISTING CONCRETE WALL TO BE PAINTED
- ② EXISTING STOREFRONT WINDOW TO RECEIVE OPAQUE SECURITY FILM
- ③ NEW BALLISTIC RATED STOREFRONT TO MATCH EXISTING FINISH
- ④ EXISTING DOOR TO BE PAINTED, TYP.
- ⑤ EXISTING CANOPY TO BE PAINTED, TYP.
- ⑥ NEW PAINTED METAL INFILL PANEL
- ⑦ NEW STOREFRONT INFILL FINISH AND GLAZING TINT TO MATCH EXISTING
- ⑧ NEW SKYLIGHT MONITOR, PAINTED
- ⑨ NEW METAL MAINTENANCE STAIR, GALVANIZED
- ⑩ NEW BUILDING MOUNTED LIGHTING IN SAME LOCATION AS EXISTING, TYP.
- ⑪ EXISTING METAL GUARDRAIL, NEW PAINT TO MATCH BUILDING COLOR



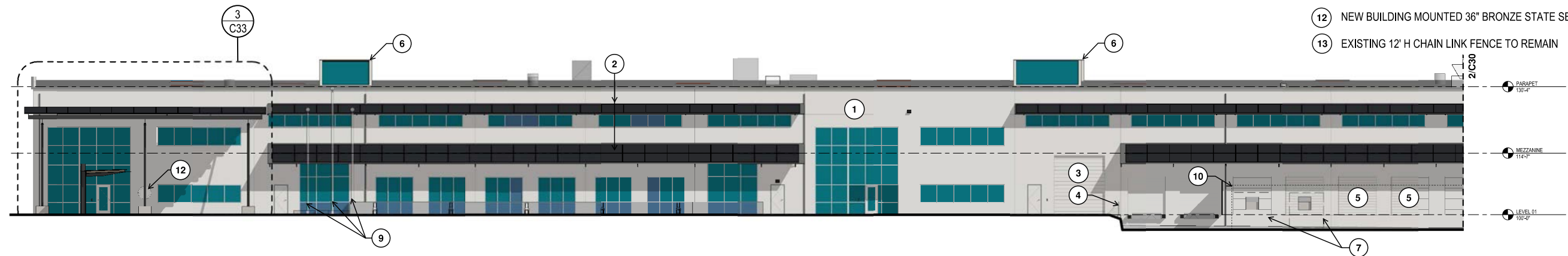
① NORTH ELEVATION 01  
1" = 10'-0"



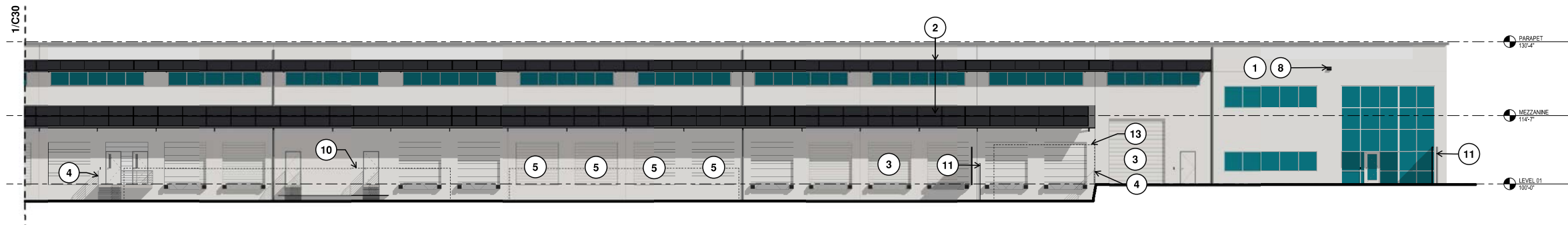
② NORTH ELEVATION 02  
1" = 10'-0"

**KEYED NOTES - PROPOSED ELEVATIONS**

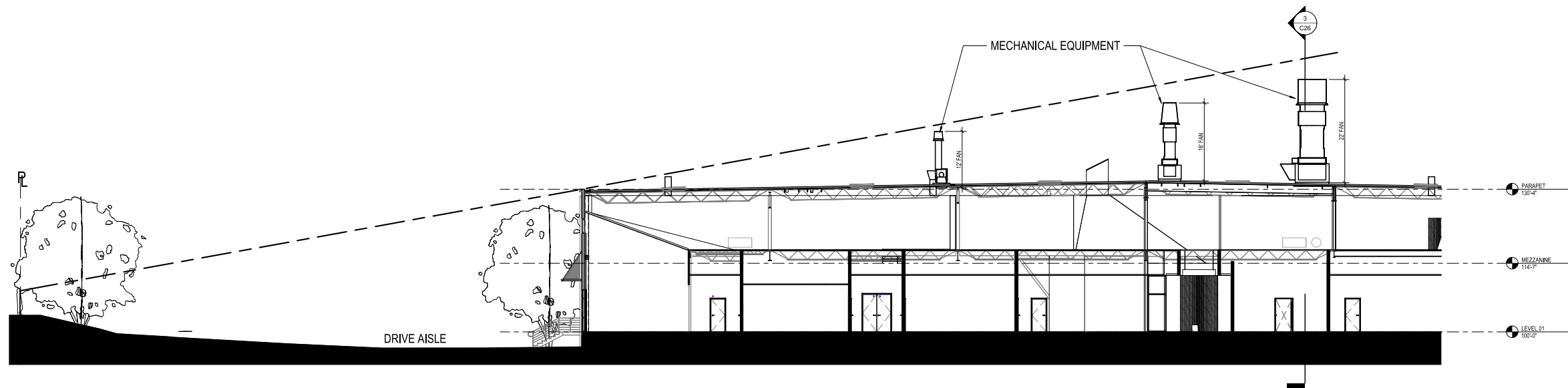
- ① EXISTING CONCRETE WALL TO BE PAINTED, TYP.
- ② NEW PRE-FINISHED BUILDING MOUNTED STANDING SEAM CANOPY TO SUPPORT NEW PV ARRAY
- ③ EXISTING DOOR TO BE PAINTED, TYP.
- ④ EXISTING METAL GUARDRAIL, NEW PAINT TO MATCH BUILDING COLOR
- ⑤ NEW PAINTED METAL INFILL PANEL
- ⑥ NEW SKYLIGHT MONITOR, PAINTED
- ⑦ RELOCATED EXISTING TRASH COMPACTOR
- ⑧ NEW BUILDING MOUNTED LIGHTING IN SAME LOCATION AS EXISTING, TYP.
- ⑨ NEW 25' AND 30' FLAGPOLES. FLAG SIZES ARE 4'X6' AND 6'X8' RESPECTIVELY
- ⑩ EXTENSION OF EXISTING 7' H CHAIN LINK FENCE
- ⑪ NEW 8' H SECURED PARKING FENCING. CHAIN LINK FENCE WITH PLASTIC SLATS
- ⑫ NEW BUILDING MOUNTED 36" BRONZE STATE SEAL
- ⑬ EXISTING 12' H CHAIN LINK FENCE TO REMAIN



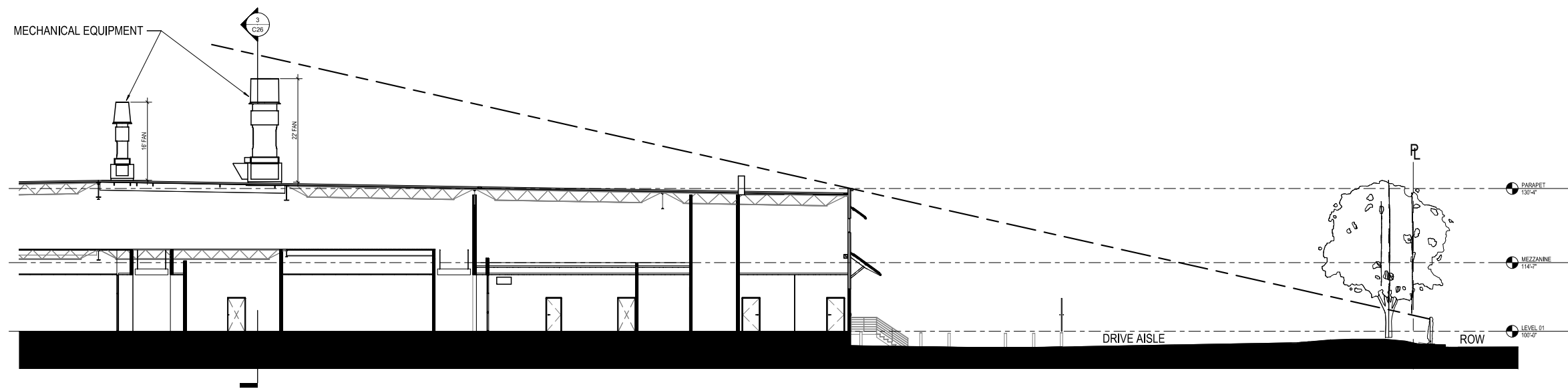
① SOUTH ELEVATION 01  
1" = 10'-0"



② SOUTH ELEVATION 02  
1" = 10'-0"

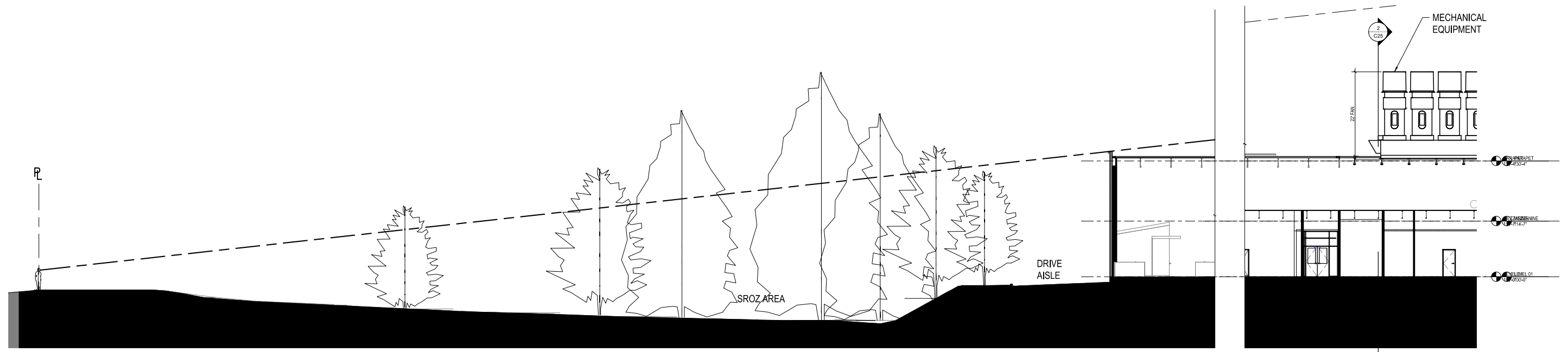


1 SECTION 1 - NORTH  
1" = 10'-0"

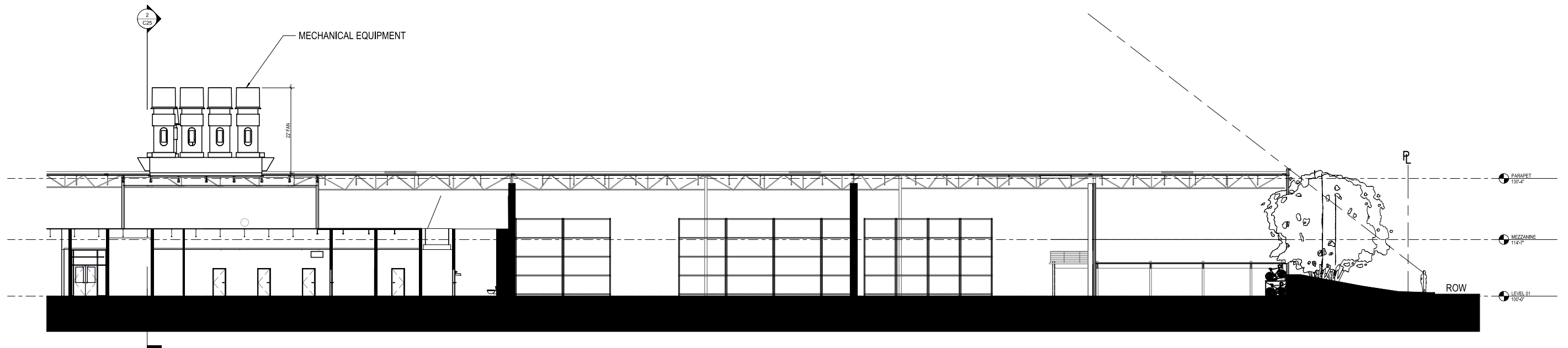


2 SECTION 1 - SOUTH  
1" = 10'-0"

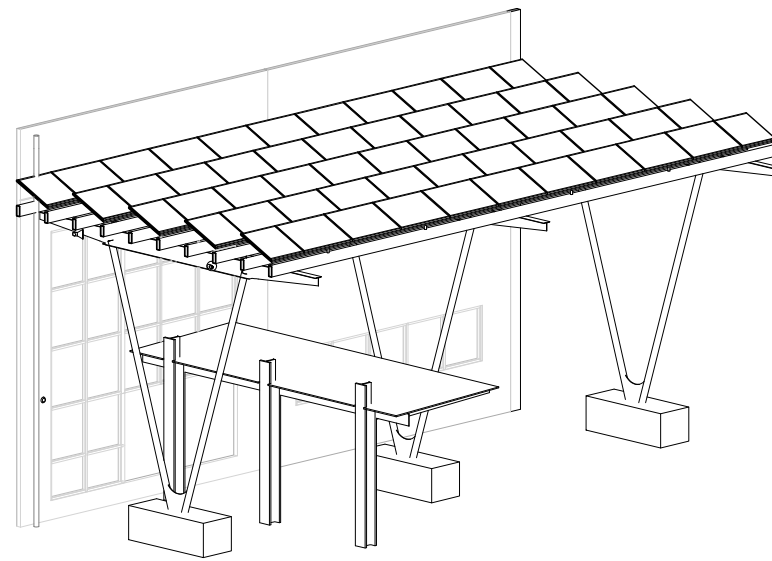




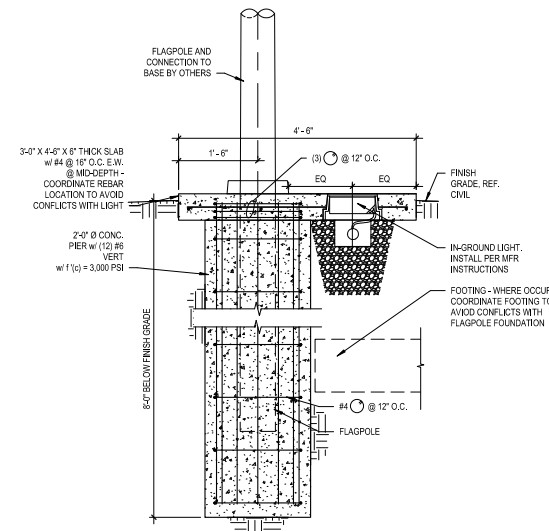
1 SECTION 2 - WEST  
1" = 10'-0"



2 SECTION 2 - EAST  
1" = 10'-0"



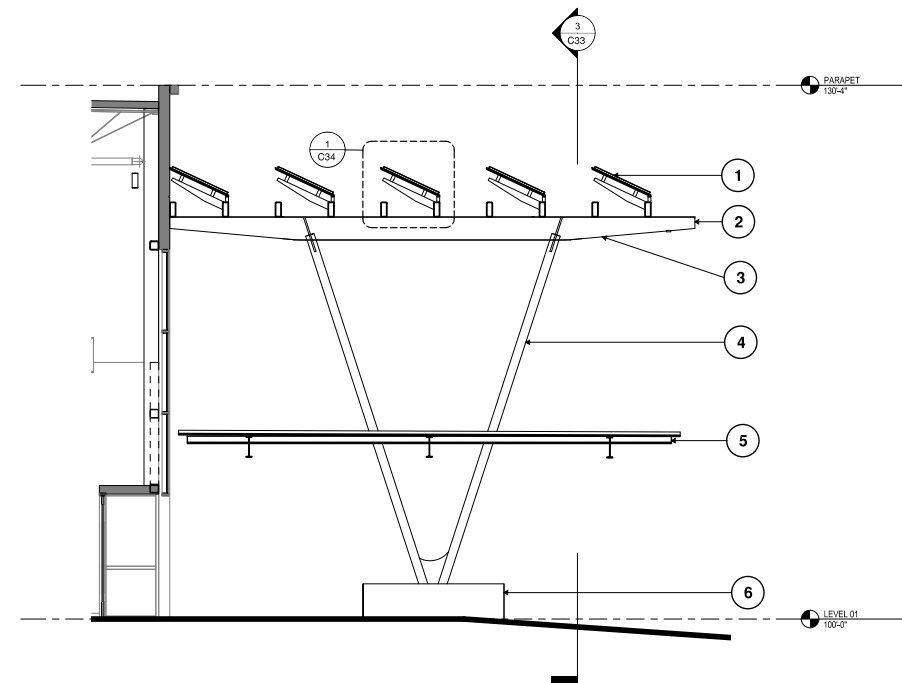
2 ENTRY CANOPY AXON



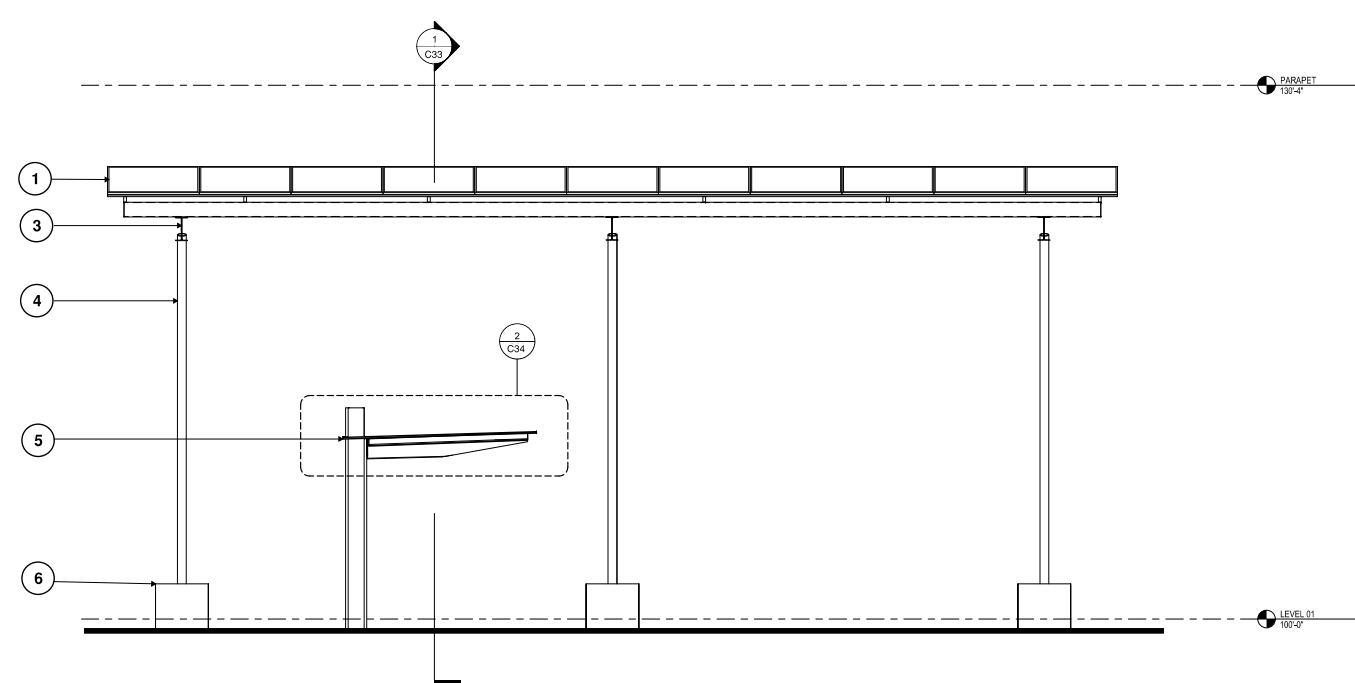
4 FLAGPOLE BASE  
3/4" = 1'-0"

**KEYED NOTES - CANOPY COMPOSITE**

- 1 BI-FACIAL PV PANEL ARRAY WITH FABRICATED SUPPORT STRUCTURE ATTACHED TO ENTRY CANOPY
- 2 PAINTED STEEL FRAMED ENTRY CANOPY WITH INTEGRATED PV TRELLIS AND LIGHTING
- 3 TAPERED STEEL MEMBER
- 4 TUBE STEEL SUPPORT STRUCTURE
- 5 CANTILEVERED STEEL PLATE PEDESTRIAN CANOPY WITH WOOD SOFFIT CLADDING AND INTEGRATED LIGHTING - MOUNTED TO STRUCTURAL STEEL COLUMNS
- 6 CONCRETE FOUNDATION



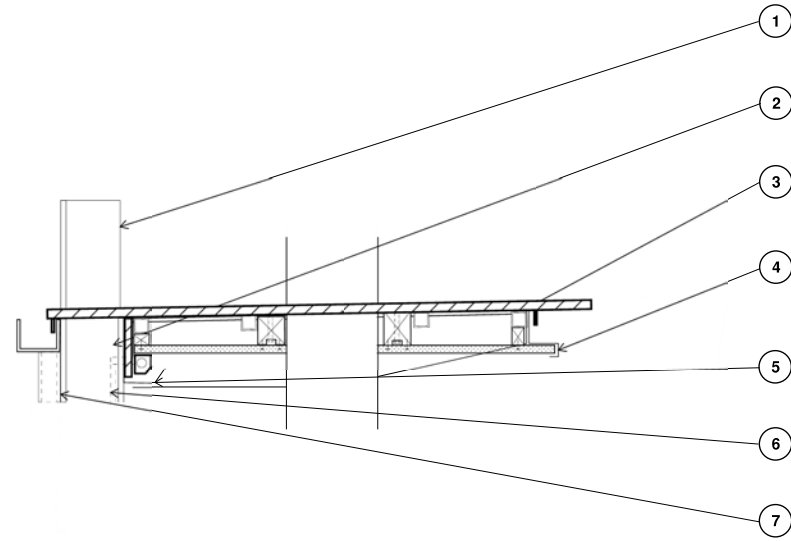
1 ENTRY CANOPY SECTION LOOKING EAST  
1/4" = 1'-0"



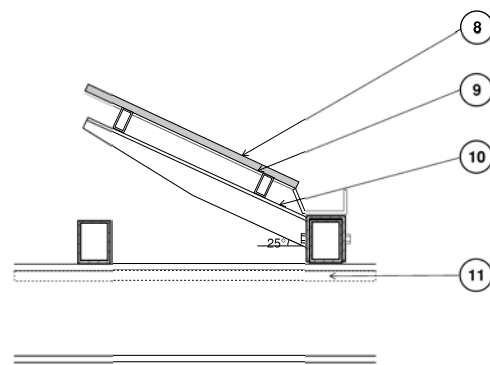
3 ENTRY CANOPY SECTION LOOKING NORTH  
1/4" = 1'-0"

**KEYED NOTES - CANOPY/AWNING DETAILS**

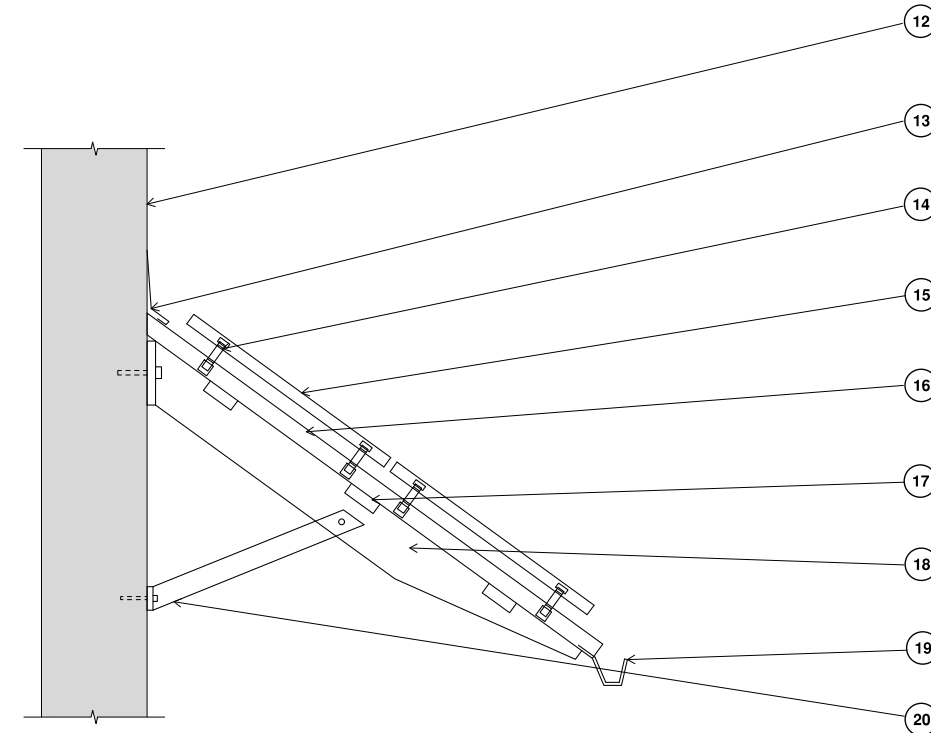
- |                      |  |  |
|----------------------|--|--|
| ① TRIM TOP FLANGE    | ⑧ BI-FACIAL P.V. PANEL                   | ⑮ P.V. PANEL                             |
| ② GUTTER             | ⑨ P.V. PANEL EDGE RAIL                   | ⑯ STANDING SEAM METAL ROOF               |
| ③ TOP OF KNIFE PLATE | ⑩ STEEL P.V. RAIL MOUNT                  | ⑰ METAL FRAMING SUPPORT - SEE STRUCTURAL |
| ④ CLOSURE EDGE       | ⑪ CONDUIT                                | ⑱ TAPERED KNIFE PLATE STRUCTURE SUPPORT  |
| ⑤ WASH LIGHT         | ⑫ CONCRETE TILT UP PANEL                 | ⑲ GUTTER                                 |
| ⑥ CONDUIT            | ⑬ FLASHING - KERF CUT INTO CONCRETE WALL | ⑳ KICKER SUPPORT                         |
| ⑦ DOWNSPOUT          | ⑭ UNISTUT RAIL AND CLIP ATTACHMENT       |  |



② PEDESTRIAN CANOPY ATTACHMENT  
1" = 1'-0"



① PV PANEL ATTACHMENT AT CANOPY  
1" = 1'-0"

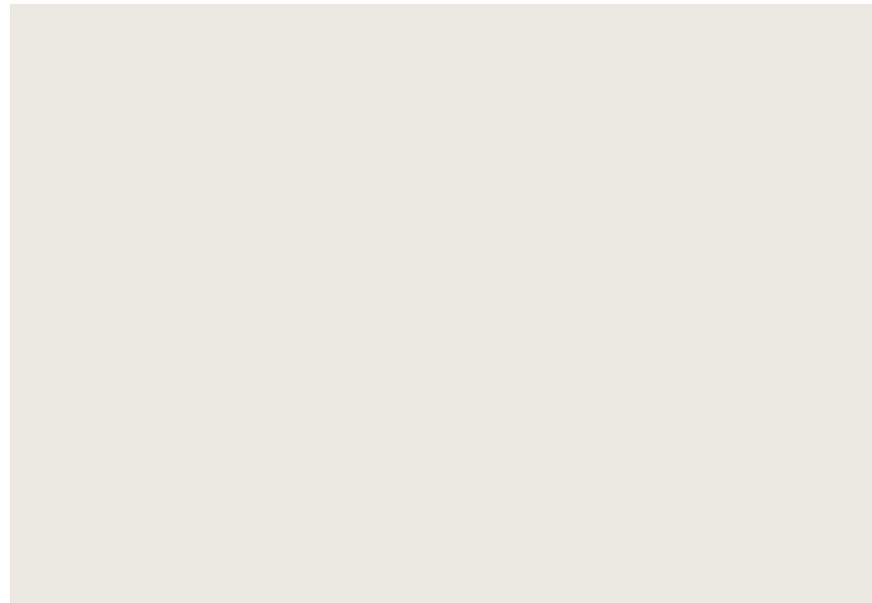


③ PV AWNING ATTACHMENT DETAIL  
1" = 1'-0"









**MAIN BUILDING PAINT COLOR: OFF-WHITE**  
(PPG1010-1 PEGASUS)



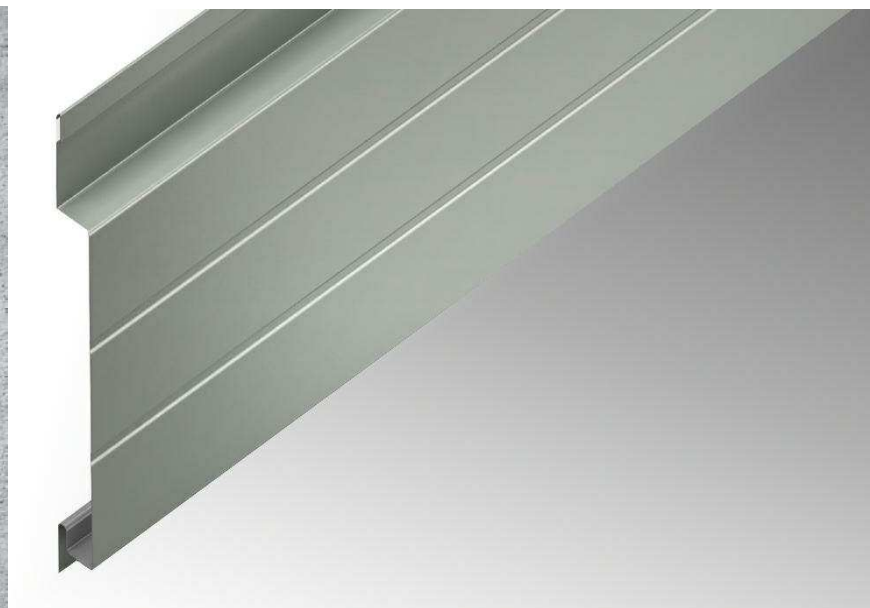
**STEEL CANOPY AND AWNING PAINT  
COLOR: DARK GREY**  
(PPG1011-7 ONYX)



**FRX WESTERN RED CEDAR WOOD SOFFIT  
AT PEDESTRIAN CANOPY**



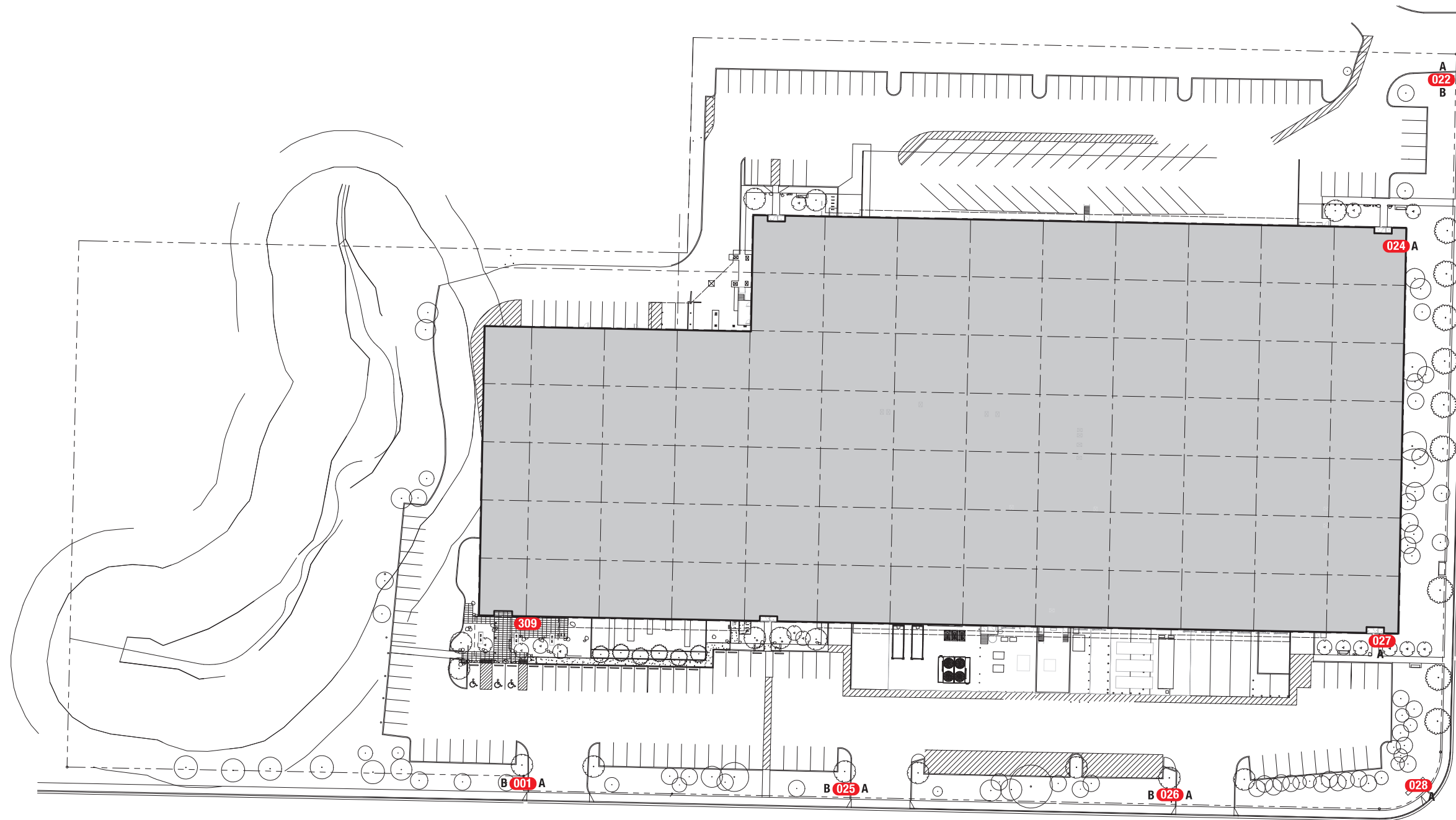
**EXPOSED POURED CONCRETE AT PLANTER  
WALLS AND CANOPY FOOTINGS**



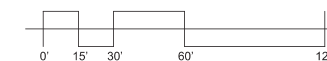
**INFILL METAL PANEL PROFILE**



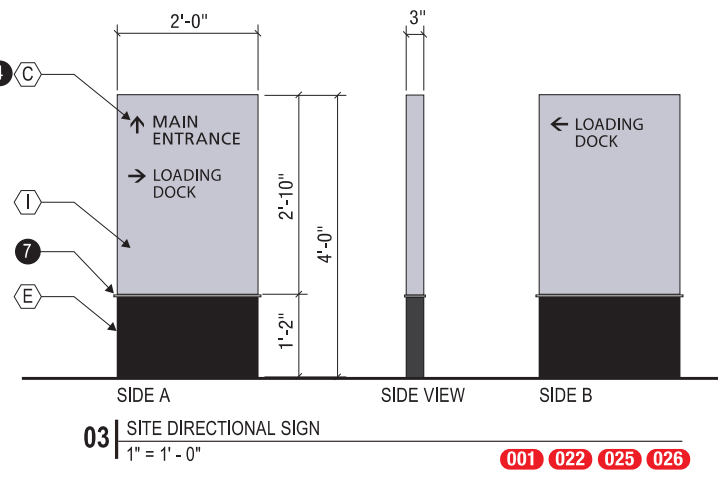
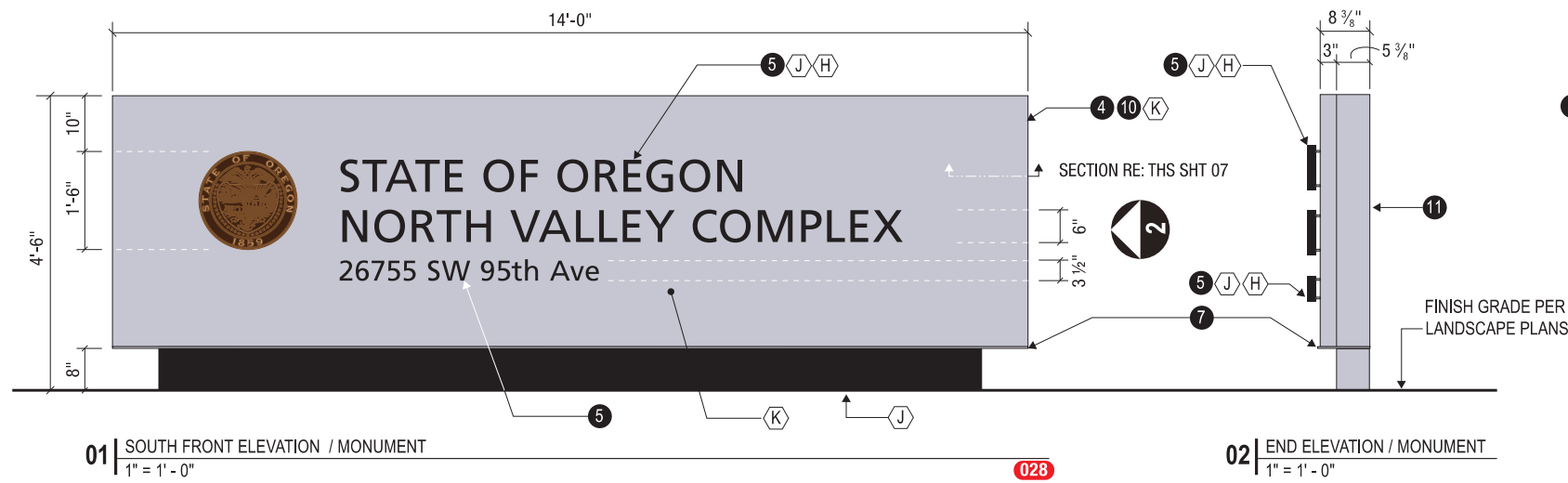
**EXISTING AND PROPOSED FENCE TYPE:  
BLACK PAINTED CHAIN LINK WITH DARK  
GREY PLASTIC SLATting**



1 SITE DEVELOPMENT PLAN  
1"=30'-0"



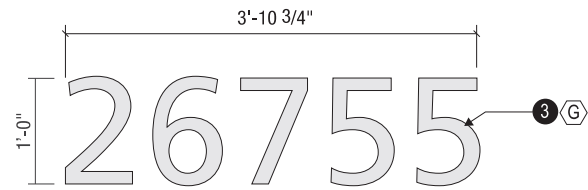
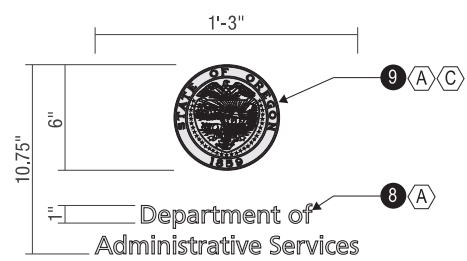
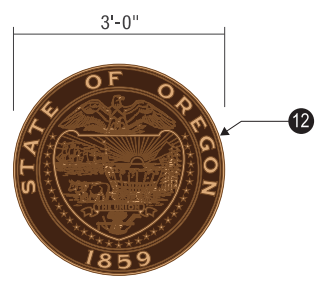




01 | SOUTH FRONT ELEVATION / MONUMENT  
1" = 1' - 0"

02 | END ELEVATION / MONUMENT  
1" = 1' - 0"

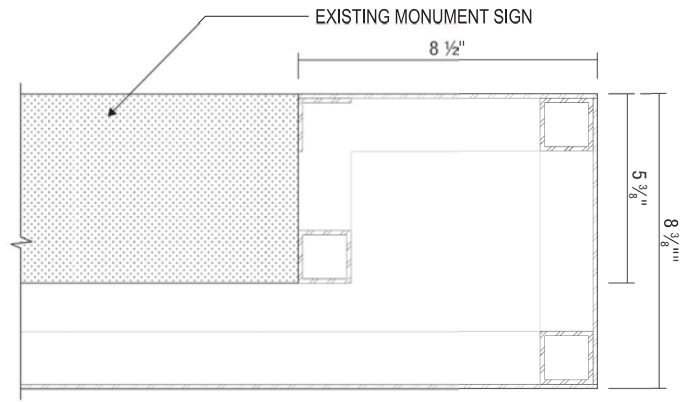
03 | SITE DIRECTIONAL SIGN  
1" = 1' - 0"



04 | DETAIL / BRONZE WALL PLAQUE  
1" = 1' - 0"

05 | TYPE H-6/ H-1 - BUILDING ID  
3" = 1' - 0"

06 | TYPE H-6 - ADDRESS NUMERALS  
1 1/2" = 1' - 0"



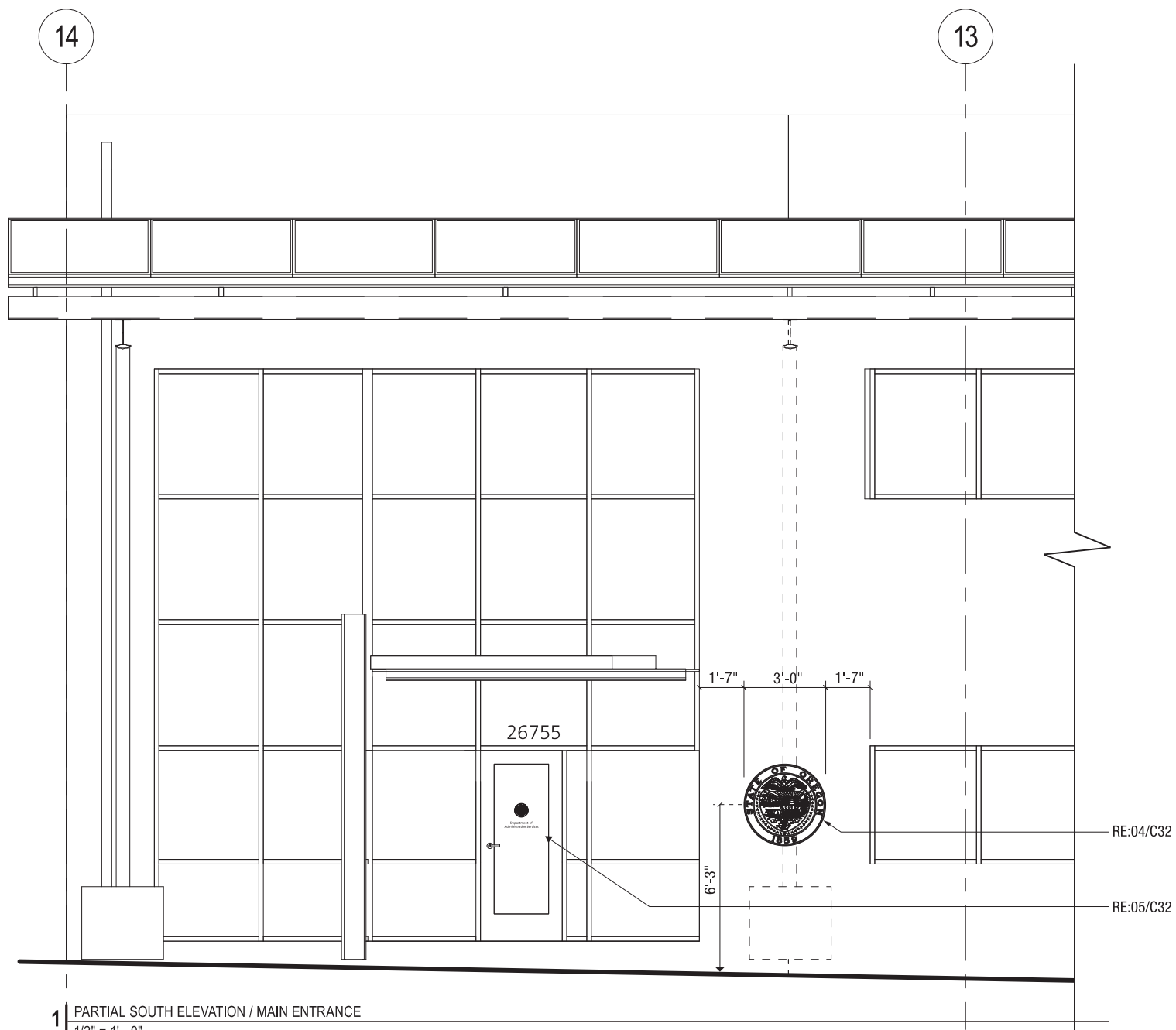
07 | SECTION DETAIL / MONUMENT  
1 : 2

**GENERAL NOTES:**

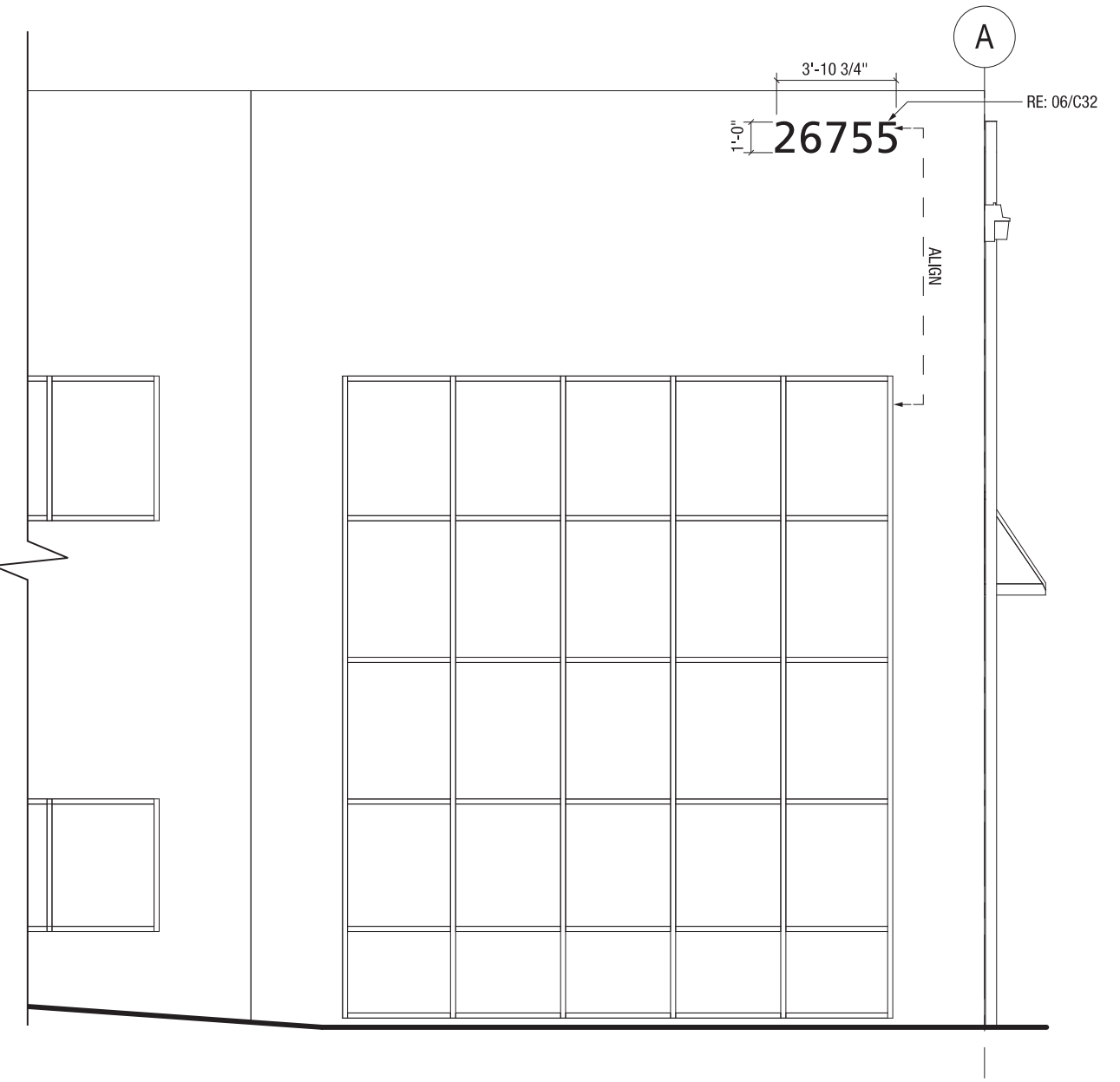
1. 3M REFLECTIVE HIGH PERFORMANCE VINYL DIE CUT-TYPE, APPLIED TO SIGN FACE.
2. 3/4" THICK BRONZE PLAQUE, STUD MOUNTED
3. STAINLESS STEEL FABRICATED CHANNEL NUMBERS W/ 1.5" RETURNS & STUD MOUNTED FLUSH TO BUILDING, NON-ILLUMINATED.
4. 1/8" THK 6061 ALUMINUM SIGN PANELS PAN FORMED FABRICATION W/O EXPOSED STAINLESS STEEL FASTENERS.
5. STAINLESS STEEL FABRICATED CHANNEL LETTERS W/ STUD MOUNTED 1/2" SPACERS TO SIGN FACE PANEL. REVERSE ILLUMINATED W/ WHITE LED FIXTURES.
6. PUSH THRU 1/2" THK CLEAR ACRYLIC WITH AVEY TRANSLUCENT FILM APPLIED TO SIDE A OF TYPE.
7. 3/8" THK STAINLESS STEEL FLAT BAR W/ MATTE CLEAR COAT FINISH PIN MOUNTED TO SUB FRAME OF SIGN.
8. PRESSURE-SENSITIVE VINYL LETTERING/NUMBERING. MOUNTED FIRST SURFACE TO GLASS RELITE.
9. DIGITAL PRINTED SEAL ON CLEAR CARRIER BLACK & WHITE INSTALL ON SIDE B OF GLASS.
10. REFACE AND RECONDITION EXISTING MICROSOFT SITE MONUMENT SIGN ADD 3" EXTENDED FRONT PANEL FOR INTERNALLY ILLUMINATION OF CHANNEL LETTERS.
11. BACK OF SIGN FINISHED W/ PAINTED PANELS TO MATCH FRONT W/O TYPE OFR STATE SEAL.
12. 3/4" THK CAST BRONZE PLAQUE. WITH CLEAR COAT FINISH & MOUNTING STUDS.

**COLOR NOTES:**















- A. 3M 220 WHITE
- B. 3M 220-63 GERANIUM RED
- C. 3M 220-12 BLACK
- D. MATTHEWS PAINT 18076 SILVER
- E. MATHEWS PAINT JET BLACK
- F. MATTHEWS PAINT DESIGNER WHITE
- G. HAIRLINE BRUSHED FINISH W/ MATTE CLEAR COAT
- H. TYPE STYLE: **FRUTIGER 55 ROMAN**
- I. DAS SIGN WORKBOOK COLOR STANDARDS PG 24 - **CHARCOAL**
- J. BUILDING CANOPY COLOR
- K. BUILDING WALL COLOR
- L. AVEY WINTER SKY A9011-T
- M. AVEY



1 PARTIAL SOUTH ELEVATION / MAIN ENTRANCE  
1/2" = 1' - 0"

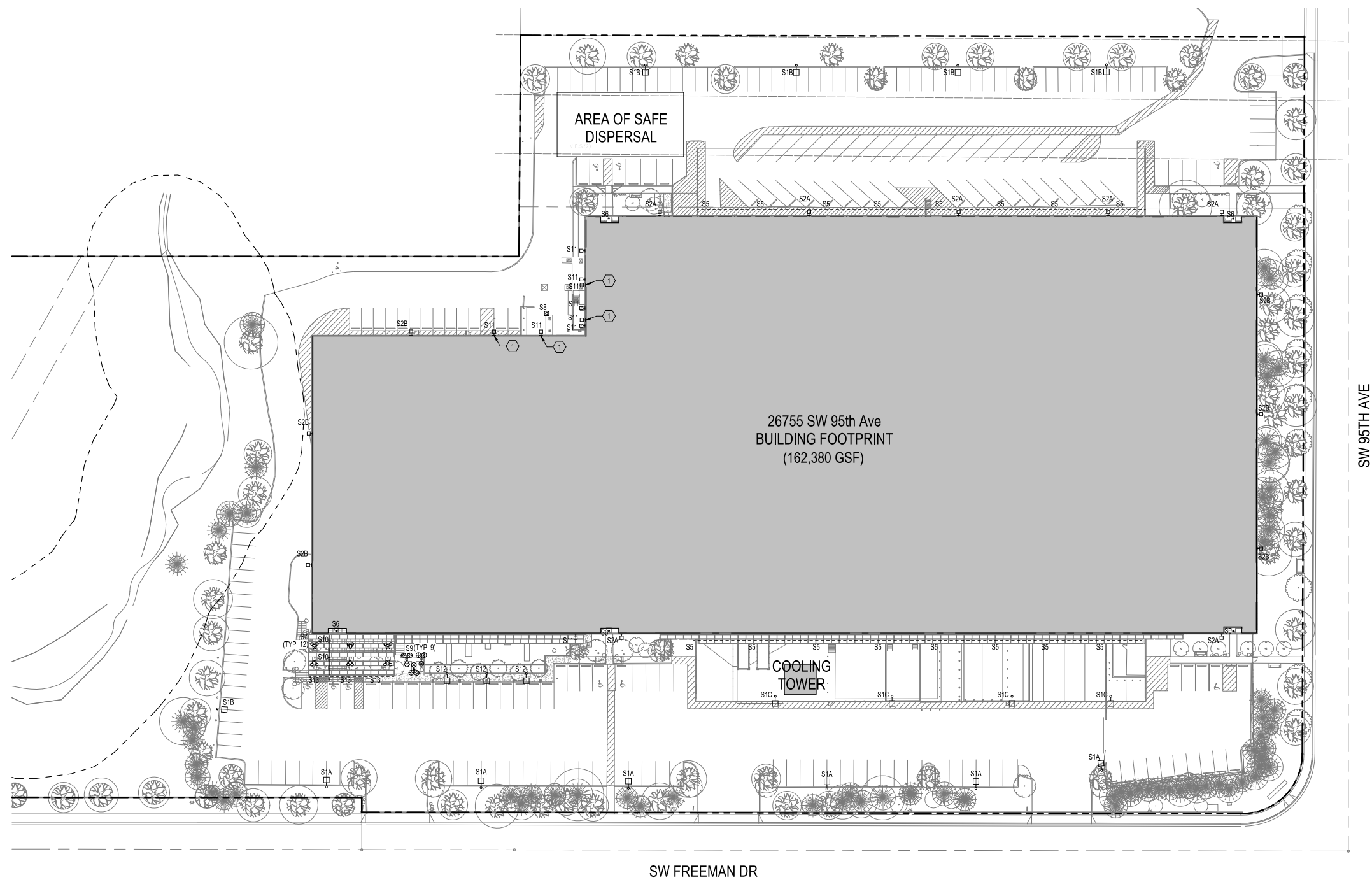


2 PARTIAL EAST ELEVATION / BUILDING ADDRESS  
1/2" = 1' - 0"

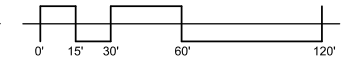
EXTERIOR LUMINAIRE SCHEDULE												
FIXTURE TYPE	IMAGE	PRODUCT DESCRIPTION	BASIS OF DESIGN MANUFACTURER	SIZE	INPUT WATTS	LAMP SOURCE	POWER SUPPLY	INPUT VOLTAGE	FINISH	MOUNTING	NOTES	ALTERNATE MANUFACTURER(S)
S1A		LED AREA LUMINAIRE, TYPE 3 MEDIUM DISTRIBUTION. MOUNT TO SSS POLE. Parking	LITHONIA DSX0	26" L X 13" W X 3" H - 25" OVERALL MH	71W	LED 8,559 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING TO 1%	277V	STANDARD PER ARCHITECTURAL	25' POLE	SEE STRUCTURAL FOR POLE BASE DETAILS	OR PRE APPROVED
S1B		LED AREA LUMINAIRE, TYPE 4 DISTRIBUTION, HOUSE-SIDE SHIELD, EXTERNAL GLARE SHIELD. MOUNT TO SSS POLE. Parking, Area of Safe Dispersal	LITHONIA DSX0	26" L X 13" W X 3" H - 25" OVERALL MH	71W	LED 7,013 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING TO 1%	277V	STANDARD PER ARCHITECTURAL	25' POLE	SEE STRUCTURAL FOR POLE BASE DETAILS	OR PRE APPROVED
S1C		LED AREA LUMINAIRE, TYPE 5 DISTRIBUTION. MOUNT TO SSS POLE. Service Yard	LITHONIA DSX0	26" L X 13" W X 3" H - 18" OVERALL MH	38W	LED 4,953 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING TO 1%	277V	STANDARD PER ARCHITECTURAL	14' POLE	SEE STRUCTURAL FOR POLE BASE DETAILS	OR PRE APPROVED
S2A		LED WALL AREA SCONCE, FORWARD THROW DISTRIBUTION Building Exterior	LITHONIA WDGE4 LED	25" W X 10" D X 9" H	77W	LED 12,050 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	WALL SURFACE - 25' SEE NOTE	MOUNT FIXTURE AT LOCATION OF DEMOLISHED WALL PACK, WHERE POSSIBLE.	OR PRE APPROVED
S2B		LED WALL AREA SCONCE, TYPE 2 DISTRIBUTION Building Exterior	LITHONIA WDGE4 LED	25" W X 10" D X 9" H	77W	LED 12,125 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	WALL SURFACE - 25' SEE NOTE	MOUNT FIXTURE AT LOCATION OF DEMOLISHED WALL PACK, WHERE POSSIBLE.	OR PRE APPROVED
S3		NOT USED										
S4		SURFACE MOUNT TAPE LIGHT, ALUMINUM EXTRUSION, CONTINUOUS FROSTED LENS, UL LISTED WET LOCATION. Main Entry	KELVIX ZACH 409 WITH PERFORMANCE 400 DIRECT VIEW RUBBER COATED TAPE	18MM W X 13 MM D X LENGTH AS SHOWN	5.2W/FT	LED 400 LUMENS/FT 5000K	REMOTE ELECTRONIC 0-10V DIMMING	24VDC TAPE/277V DRIVER	STANDARD	SURFACE MOUNT AT BOTTOM OF CANOPY STRUCTURE - 22'-6"	AIMED STRAIGHT DOWN	OR PRE APPROVED
S5		SURFACE MOUNT TAPE LIGHT, ALUMINUM EXTRUSION, CONTINUOUS FROSTED LENS, UL LISTED WET LOCATION. Awnings	KELVIX ZACH 409 WITH PERFORMANCE 200 DIRECT VIEW RUBBER COATED TAPE	18MM W X 13 MM D X LENGTH AS SHOWN	2.6W/FT	LED 200 LUMENS/FT 5000K	REMOTE ELECTRONIC 0-10V DIMMING	24VDC TAPE/277V DRIVER	STANDARD	SURFACE MOUNT AT UNDERSIDE OF AWNING - 10'-0"	AIMED STRAIGHT DOWN	OR PRE APPROVED
S6		8" LED RETROFIT DOWNLIGHT Secondary Entries	COOPER HALO LCR8	9" DIA X 4.23" D	34W	LED 3000 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD	RECESSED AT EXISTING DOWNLIGHT LOCATIONS - 8'-0"		OR PRE APPROVED
S7		SURFACE MOUNT ADJUSTABLE LANDSCAPE LIGHT WITH 10 DEGREE DISTRIBUTION AND FULL SNOOT. Main Entry	ECOSENSE RISE	2.6" SQ X 4.7" L	12W	LED 744 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	SURFACE MOUNT TO COLUMN - 22'-6"	AIMED 20 DEGREES ABOVE NAZIR (STRAIGHT DOWN)	OR PRE APPROVED
S8		SURFACE MOUNT PARKING GARAGE/AREA LIGHT Loading Canopy	LITHONIA VCPG	19" D X 3.75" H	27W	LED 3,917 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	SURFACE MOUNT TO UNDERSIDE OF CANOPY - 13'-7"		OR PRE APPROVED
S9		ADJUSTABLE INGRADE WITH INTERIOR HEXCELL LOUVER, ANTI-SLIP GLASS AND DOUBLE LENS Flagpole	HYDREL M9400C	10" DIA	10W	LED 1,200 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	INGRADE	AIMED STRAIGHT UP	OR PRE APPROVED
S10		SURFACE MOUNT FLEXIBLE LED STRIP LIGHT WITH 15X40 DEGREE OPTICS, UL LISTED WET LOCATION. Entry Awning Washer	ECOSENSE TROV FLEX	72" W X .374" H X LENGTH AS SHOWN	5W/FT	LED 441 LUMENS/FT 3500K	REMOTE ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	SURFACE MOUNT BELOW ENTRY CANOPY - 9'-6"	AIMED 90 DEGREES ABOVE NAZIR, FULLY SHIELDED BY ENTRY CANOPY.	OR PRE APPROVED
S11		LED WALL AREA SCONCE, TYPE 2 DISTRIBUTION Building Exterior	LITHONIA WDGE2 LED	11.5" X 7" X 9" H	10W	LED 2,000 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	WALL SURFACE - 10'-0", U.N.O. SEE NOTE	MOUNT FIXTURE AT LOCATION OF DEMOLISHED WALL PACK, WHERE POSSIBLE.	OR PRE APPROVED
S12		LED AREA LUMINAIRE, SINGLE HEAD ASYMMETRIC, WIDE BEAM Main Entry	BEGA 99072	9-1/2" W X 12-1/2" D X 14" TO TOP	30W	LED 851 LUMENS 5000K	INTEGRAL ELECTRONIC 0-10V DIMMING	277V	STANDARD PER ARCHITECTURAL	14' POLE		OR PRE APPROVED



- NOTES:**
1. MOUNT S11 FIXTURE AT 10'-0" ABOVE MECHANICAL PLATFORM.

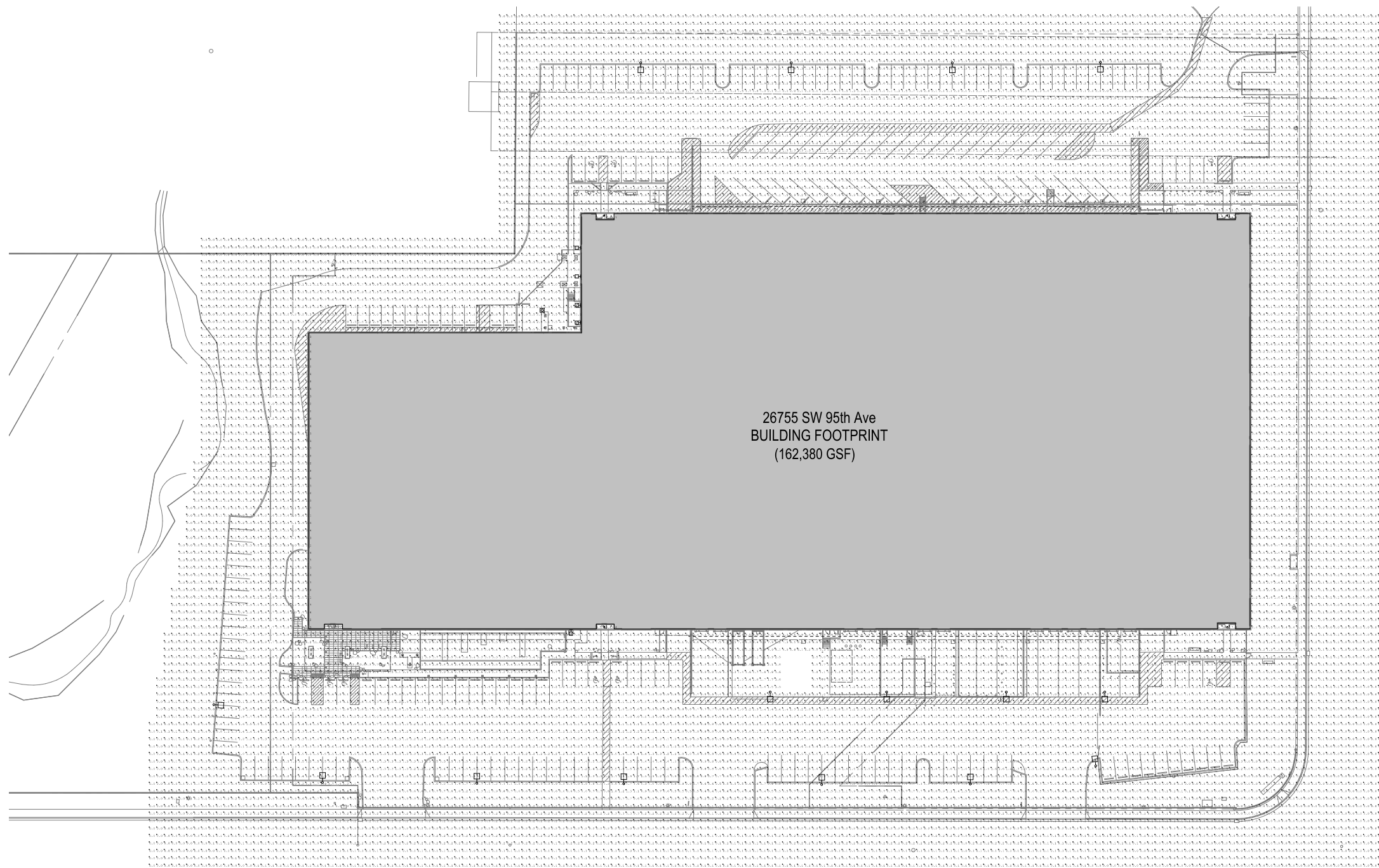


1 SITE DEVELOPMENT PLAN - LIGHTING  
1" = 30'-0"

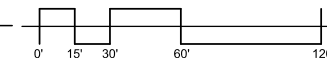


**CODE INFORMATION:**

- CITY OF WILSONVILLE DEVELOPMENT ZONE PDI
- LIGHTING ZONE LZ-2
- ADJACENT PROPERTIES IN LZ-2
- POINT-TO-POINT SPACING AT 5' X 5'
- FIXTURE PHOTOMETRIC CURVE REPRESENTS A DISTRIBUTION SHAPE ONLY AND IS NOT REPRESENTATIVE OF A CONSISTENT VALUE
- TOTAL ALLOWED WATTS: 10,624W
- PROPOSED WATTS: 3,254W

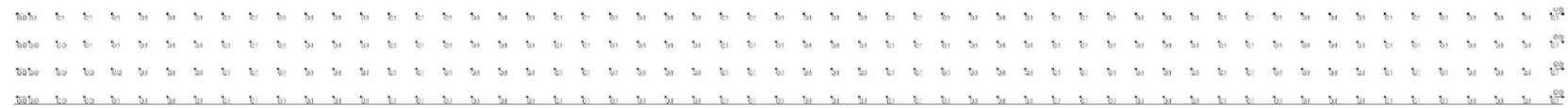


① SITE DEVELOPMENT PLAN - LIGHTING  
1" = 30'-0"





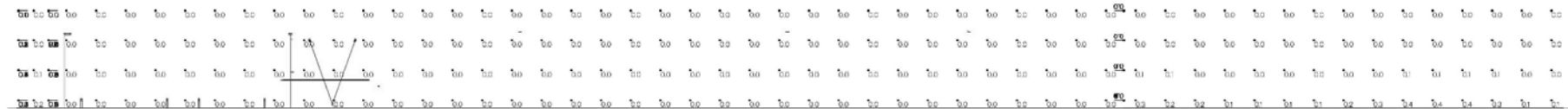
1 Lighting Photometrics - North Elevation at Property Line  
NONE



2 Lighting Photometrics -East Elevation at Opposite Side of Street  
NONE

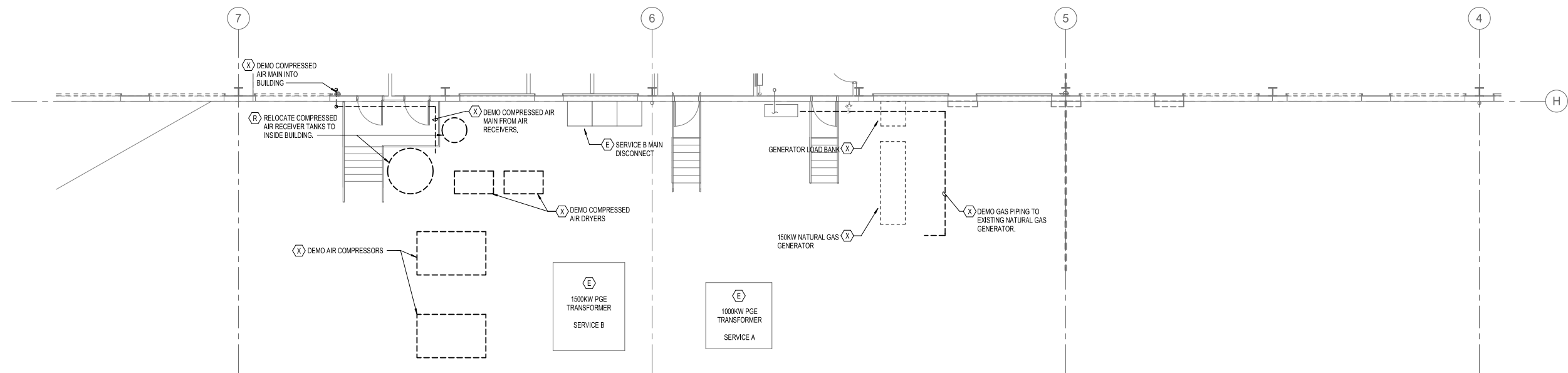


3 Lighting Photometrics - South Elevation at Opposite Side of Street  
NONE

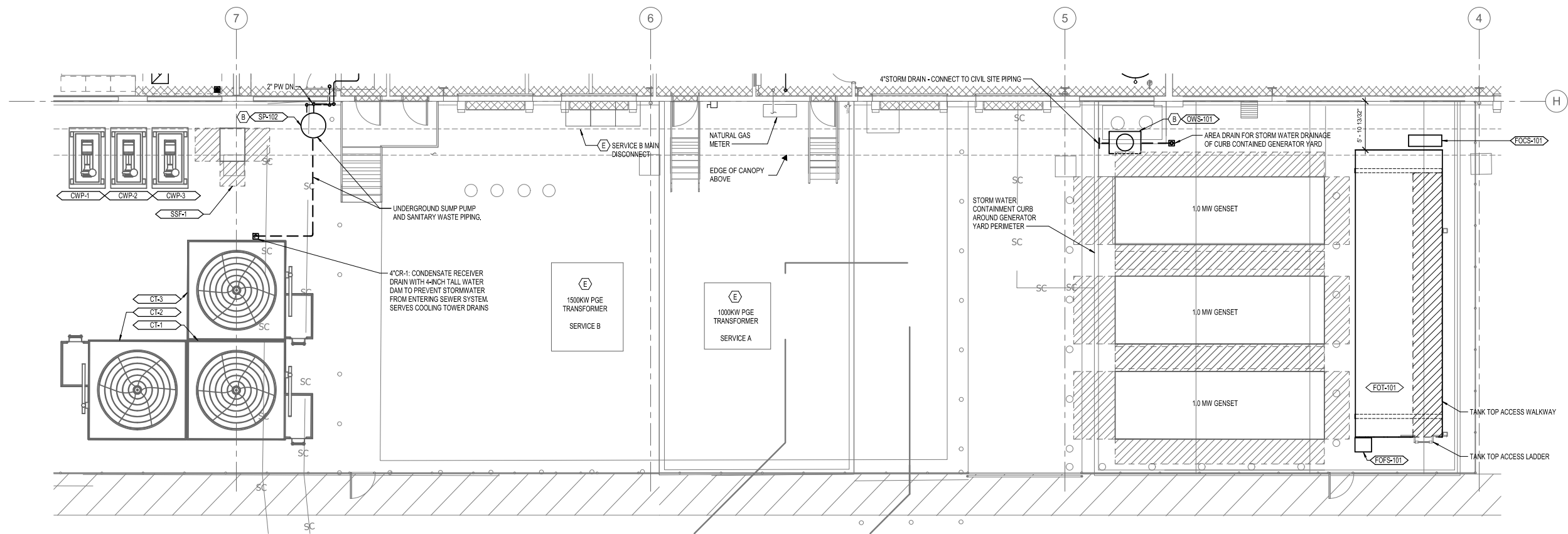


4 Lighting Photometrics - West Elevation at Property Line  
NONE





1 ENLARGED DEMO PLAN - LEVEL 01 - UTILITY YARD - PLUMBING  
 3/16" = 1'-0"



1 ENLARGED PLAN - LEVEL 01 - UTILITY YARD - MEP EQUIPMENT  
 3/16" = 1'-0"

SUMP PUMP SCHEDULE																
TAG NUMBER	DESCRIPTION	LOCATION	SERVICE	TYPE	FLUID TYPE	FLUID TEMP. (F)	PERFORMANCE			MOTOR					MANUFACTURER & MODEL	NOTES
							FLOW (GPM)	HEAD (FT)	EFFICIENCY (%)	HP	VOLT/ PHASE	RPM	VFD			
SP-102	SUMP PUMP (SIMPLEX W/ BASIN)	UTILITY YARD	SANITARY SEWER	SUBMERSIBLE	SANITARY WASTE	60	40	35	-	2	480/3	1750	NO	WEIL	1	

**NOTES:**  
1. PROVIDE PACKAGED SUMP PUMP SYSTEM WITH FIBERGLASS BASIN, REMOVAL RAIL SYSTEM, CONTROL PANEL, TETHERED LEVEL CONTROLS, & DUPLEX VALVE ASSEMBLY.

FUEL OIL EQUIPMENT SCHEDULE			
TAG NUMBER	LOCATION	DESCRIPTION	ELECTRICAL
FOCS-101	MECHANICAL YARD	FUEL OIL CLEANING SYSTEM FOR FUEL TANKS FT-A & FT-B 20 GPM, 1-1/2 HP PUMP 1 MICRON FILTRATION AND 99.9% WATER EXTRACTION FOR 60,000 GALLONS FUEL STORAGE PROGRAMMABLE TO OPERATE 2 FUEL TANKS AND 4 SOLENOID VALVES PROGRAMMABLE TO TRANSFER FUEL BETWEEN 2 TANKS PROVIDE NEMA 3R WEATHERPROOF ENCLOSURE AND MOUNT ON ACCESS PLATFORM ABOVE TANKS BASED ON MODEL FTI-20A OR SIMILAR BY PREFERRED UTILITIES	208V/1PH
FOFS-101	MECHANICAL YARD	REMOTE FILL STATION FOR FUEL TANK TANK SELECTOR SWITCH FOR FILLING 2 TANKS BASED ON PREFERRED UTILITIES	120V/1PH

OIL WATER SEPARATOR SCHEDULE			
TAG NUMBER	LOCATION	DESCRIPTION	ELECTRICAL
OWS-101	GENERATOR YARD	OIL WATER SEPARATOR (POLYETHYLENE CONSTRUCTION) 75 GPM RATED FLOW, 100 GPM MAX FLOW RATE 110 GALLON LIQUID VOLUME CAPACITY 83 GALLON OIL CAPACITY 11 GALLON SAND CAPACITY 4-INCH INLET/OUTLETS HIGHWAY RATED ACCESS COVERS BASED ON: STRIEM OS-75	NONE

ATMOSPHERIC FUEL OIL TANK SCHEDULE			
TAG NUMBER	LOCATION	SERVICE	MECHANICAL YARD
		GENERATOR	
			20,000
DIMENSIONS	NOMINAL CAPACITY	GAL	34'-8"
	LENGTH	IN	12'
	WIDTH	IN	10'-6"
	CONNECTION	IN	8.0
NORMAL VENT	PIPING LENGTH	FT	2
	VENT RATE	CFH	8.0
	PIPE SIZE	IN	8.0
	OPERATING PRESSURE	PSIG	
PRIMARY EMERGENCY VENT	ALLOWABLE PRESSURE	PSIG	
	CONNECTION	IN	8.0
	PIPING LENGTH	FT	2
	VENT RATE	CFH	8.0
SECONDARY EMERGENCY VENT	PIPE SIZE	IN	8.0
	OPERATING PRESSURE	PSIG	
	ALLOWABLE PRESSURE	PSIG	
	CONNECTION	IN	
	PIPING LENGTH	FT	
	VENT RATE	CFH	
	PIPE SIZE	IN	
	OPERATING PRESSURE	PSIG	
	ALLOWABLE PRESSURE	PSIG	
	APPROX. WEIGHT	(LBS)	
	MANUFACTURER		HIGHLAND TANK
	MODEL		UL-2085

**GENERAL NOTES:**  
A. TANK SADDLES MOUNTED TO CONCRETE CURB.  
B. PIPING LENGTH IDENTIFIED REPRESENTS THE LINEAR PIPING LENGTH FROM TANK CONNECTION TO EXTERIOR VENT LOCATION.  
C. NORMAL VENT RATE IS BASED ON FUEL FILL RATE.  
D. EMERGENCY VENT RATE IS BASED ON WETTED AREA OF TANK SHELL, CALCULATED IN ACCORDANCE WITH NFPA 30.  
E. OPERATING PRESSURE IS CALCULATED BASED ON THE DARCY-WEISBACH EQUATION.  
F. OVERFLOW ALARM SIGNAL SENT TO DSG.

COOLING TOWER SCHEDULE																			
TAG	LOCATION	SERVICE	TYPE	NOMINAL CAPACITY (MBH)	AMBIENT TEMP (°F DB/WB)	TEMPERATURE			MAX WPD (FT WG)	CELL QTY (#)	EQUIPMENT PER CELL				ELECTRICAL VOLT/ PHASE	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES	
						FLOW (GPM)	EWT (°F)	LWT (°F)			FANS QTY	HP EACH	VFD	PAN HEATER QTY					KW
CT-1	YARD	CONDENSER WATER	INDUCED DRAFT	4,900	86.3/70.1	980	90	80	10	1	1	25	YES	1	10	480/3	14,000	EVAPCO AT	
CT-2	YARD	CONDENSER WATER	INDUCED DRAFT	4,900	86.3/70.1	980	90	80	10	1	1	25	YES	1	10	480/3	14,000	EVAPCO AT	
CT-3	YARD	CONDENSER WATER	INDUCED DRAFT	4,900	86.3/70.1	980	90	80	10	1	1	25	YES	1	10	480/3	14,000	EVAPCO AT	

**GENERAL NOTES:**  
A. PROVIDE VIBRATION ISOLATION SWITCH MOUNTED ON UNIT CONNECT TO CONTROL PANEL (FOR EMERGENCY AUTOMATIC SHUTDOWN)

**NOTES:**  
1. MAKE-UP WATER: MIN PRESSURE = 20 PSI, FLOW = 8.2 GPM  
2. LISTED HORSEPOWER IS FOR EACH FAN OR PUMP

PUMP SCHEDULE																			
TAG	LOCATION	SERVICE	TYPE	PUMP STAGING	PERFORMANCE					ELECTRICAL							APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
					MAX FLOW (GPM)	MIN (GPM)	DESIGN (FT WG)	SHUT-OFF (FT WG)	EFF. (%)	VOLT/ PHASE	MOTOR TYPE	POWER (BHP)	RATING (HP)	SPEED (RPM)	VFD (Y/N)	SCCR (A)			
CWP-1	UTILITY YARD	CONDENSER WATER	BASE-MOUNT END-SUCTION	PL	980	294	90	110	80	480/3	ODP	26.0	30	1800	YES	900	B&G E-1510		
CWP-2	UTILITY YARD	CONDENSER WATER	BASE-MOUNT END-SUCTION	PL	980	294	90	110	80	480/3	ODP	26.0	30	1800	YES	900	B&G E-1510		
CWP-3	UTILITY YARD	CONDENSER WATER	BASE-MOUNT END-SUCTION	PL	980	294	90	110	80	480/3	ODP	26.0	30	1800	YES	900	B&G E-1510		

**GENERAL NOTES:**  
A. PROVIDE TEFC TYPE MOTORS WHERE SCHEDULED AND WHERE PUMP IS LOCATED WITHIN THE AIRSTREAM.  
B. PROVIDE LARGEST IMPELLER SIZE AVAILABLE FOR VOLUME. DUTY POINT WILL BE ACHIEVED VIA SPEED CONTROL.  
C. PUMP SIZING BASED ON (NON-OVERLOADING ALONG IMPELLER CURVE / OPERATING POINT).

**NOTES:**  
1. EC MOTOR

**KEY:**  
PL = PARALLEL, LEAD-LAG: INDIVIDUAL PUMP CAPACITY IS SUCH THAT MULTIPLE PUMPS OPERATE TO PROVIDE DESIGN FLOW.  
PS = PARALLEL, STANDBY: INDIVIDUAL PUMP CAPACITY IS SUCH THAT ONE PUMP IS FULLY REDUNDANT.  
S = STANDALONE: PUMP IS SIZED TO PROVIDE DESIGN FLOW, NO REDUNDANCY PROVIDED.

COOLING TOWER FILTER SCHEDULE									
TAG	LOCATION	SERVICE	TYPE	FLOW RATE (GPM)	PUMP MOTOR (HP)	VOLT/ PHASE	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
SSF-1	MECHANICAL YARD	CT-1,2,3	SEPARATOR	600	15	480/3	1,400	PURIFLUX PF-64	

**GENERAL NOTES:**  
A. GROUND MOUNTED SKID INSTALLED ON LEVELING..

**NOTES:**