

CATT Intensive Services Building (ISB)

17911 NW Evergreen Pl. Beaverton, OR 97006



Design Review Type 3 Application Submission R2
October 3, 2023

H O L S T



PRELIMINARY.
NOT FOR
CONSTRUCTION

ARCHITECT PROJECT NUMBER:
22-010

HOLST

123 NE 3RD AVE.
SUITE 310
PORTLAND, OR
97232

HOLSTARC.COM

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
EVERGREEN (EVGR) -
INTENSIVE SERVICES

DEPARTMENT NAME:
HEALTH AND HUMAN
SERVICES

PROJECT NAME:
CATT - INTENSIVE
SERVICES BUILDING
(ISB)

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
DESIGN REVIEW		05/25/23
DESIGN REVIEW R1		09/11/23

SHEET NUMBER:

DR-100

SHEET NAME:
EXISTING
CONDITIONS PLAN

DRAWN BY: SHEET ISSUE DATE:
Author 05/25/23

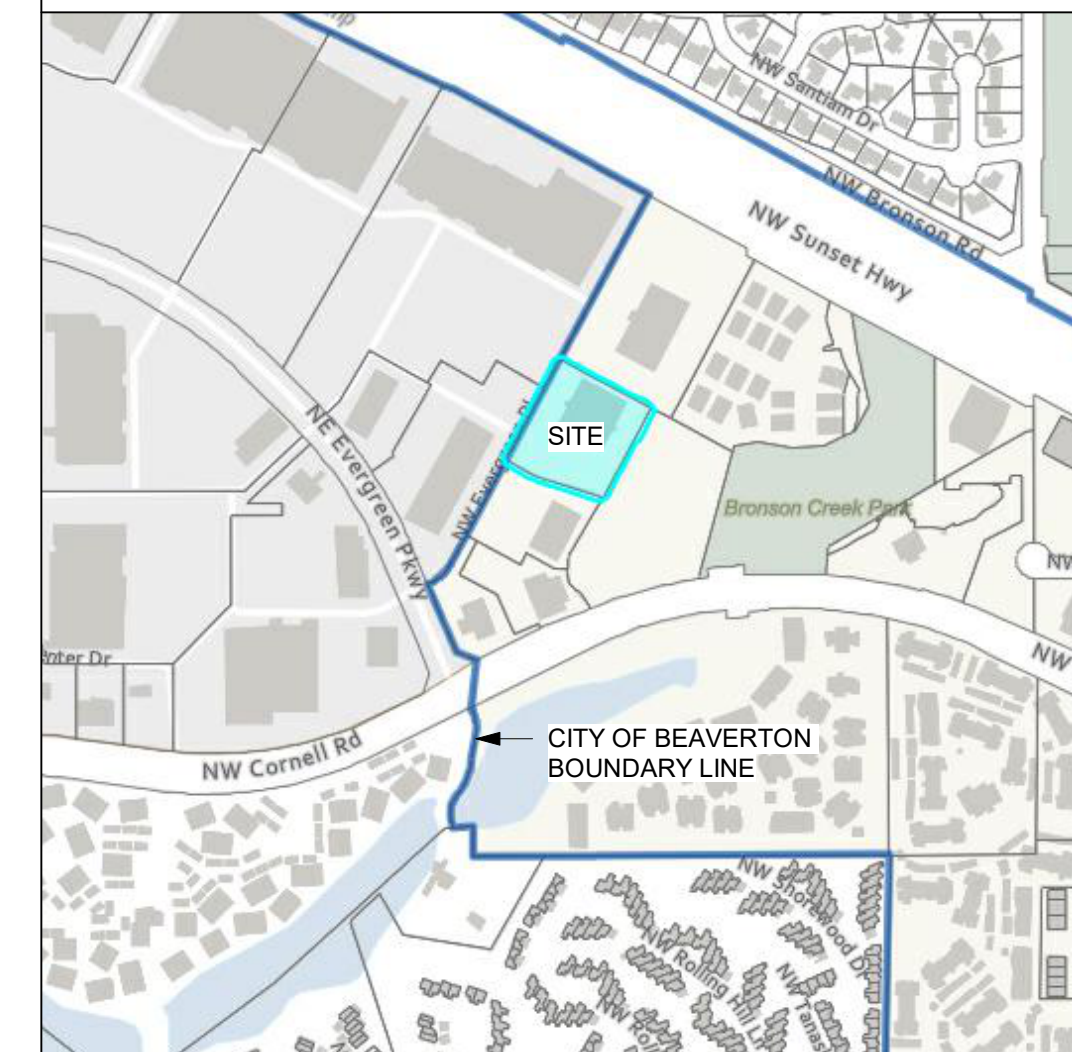
CHECKED BY:
Checker

STATUS:
50% CONSTRUCTION
DOCUMENTS

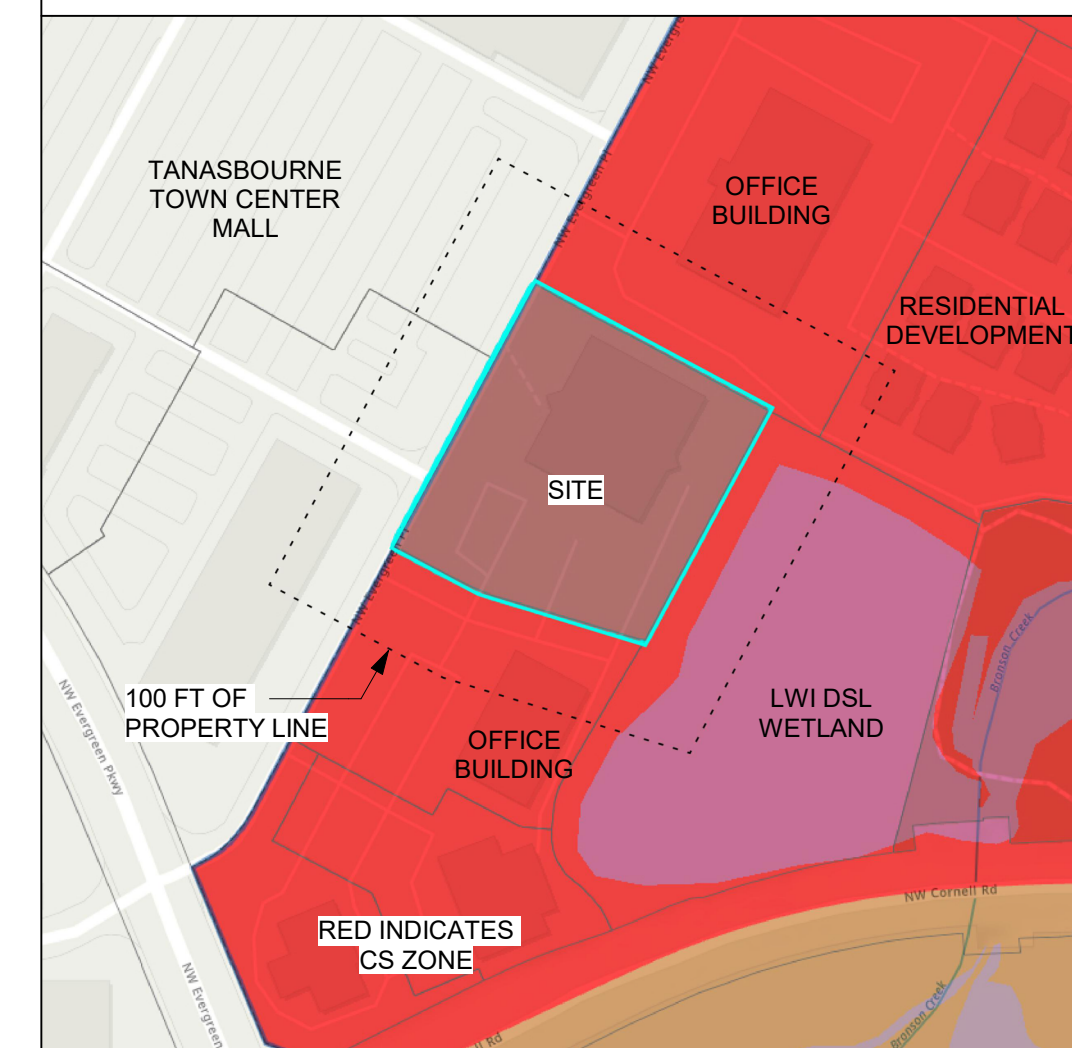
GENERAL NOTES - EXISTING SITE PLAN

- TOPOGRAPHIC INFORMATION SHOWN IN 1' CONTOURS
- 100-YEAR FLOOD ELEVATION IS 187.2 R AND IS NOT LOCATED ON THE PROPOSED SITE

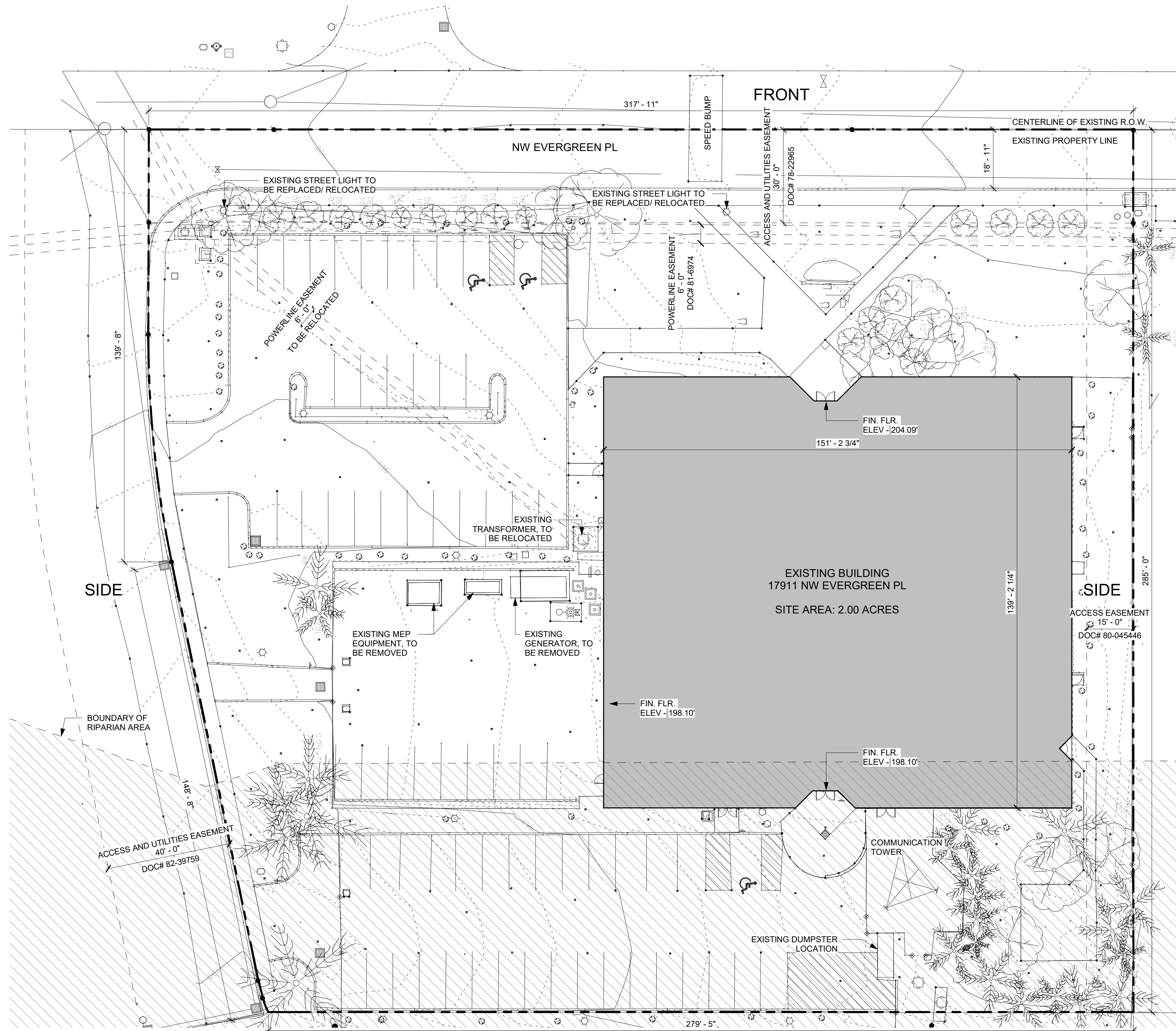
VICINITY MAP (NTS)



SURROUNDING DEVELOPMENT (NTS)

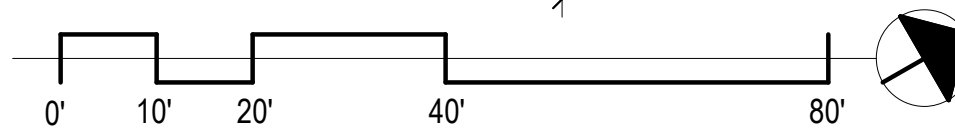


D
C
B
A



A1 EXISTING CONDITIONS SITE PLAN
1" = 20'-0"

REAR



1

2

3

4



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NO.	DESCRIPTION	DATE
DESIGN REVIEW		05/25/23
DESIGN REVIEW R1		09/11/23
DESIGN REVIEW R2		10/03/23

SHEET NUMBER:

DR-200

SHEET NAME:
SITE PLAN

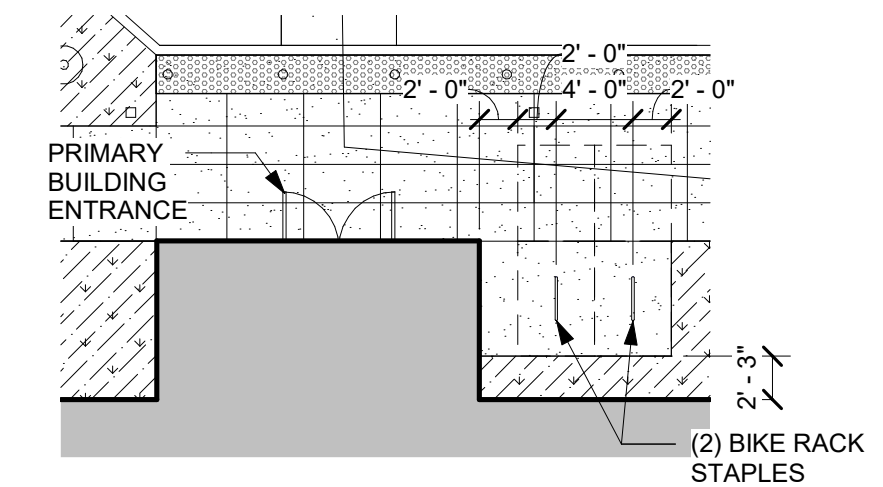
DRAWN BY: SHEET ISSUE DATE:
Author 05/25/23

CHECKED BY:
Checker

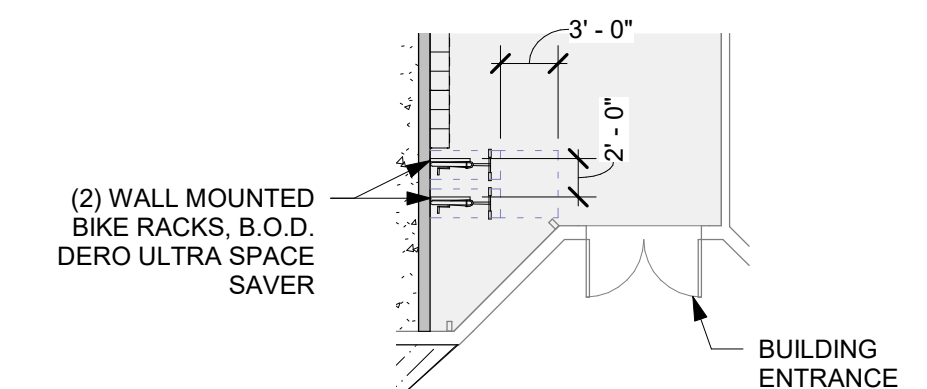
STATUS:
**50% CONSTRUCTION
DOCUMENTS**

GENERAL NOTES - SITE PLAN

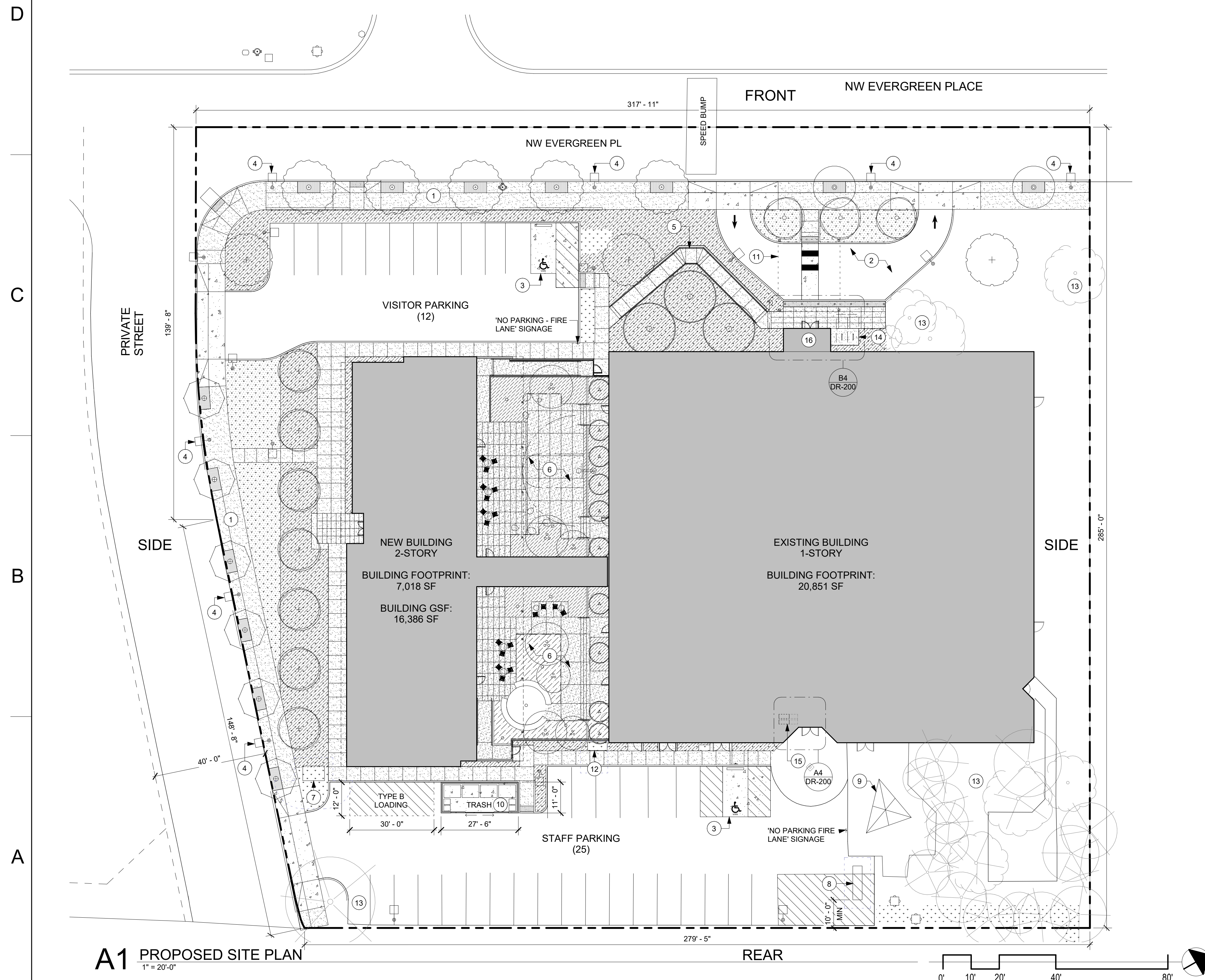
- NEW SIDEWALK, STREET TREES, AND FRONTAGE IMPROVEMENTS PER CIVIL
- NEW DRIVE THROUGH DROP-OFF WITH CONCRETE WALKWAY CROSSING FROM THE SIDEWALK TO THE BUILDING'S MAIN ENTRANCE.
- RECONSTRUCT ADA PARKING, EXTENTS PER CIVIL
- NEW STREET LIGHTING TO MEET CITY OF BEAVERTON EDM, SEE ELECTRICAL
- NEW RAMP TO MAIN ENTRANCE, PER LANDSCAPE
- NEW COURTYARD PLANTINGS AND HARDSCAPE, PER LANDSCAPE
- RELOCATE EXISTING TRANSFORMER, PER ELECTRICAL
- NEW GENERATOR, PER ELECTRICAL
- EXISTING VERIZON CELL TOWER TO REMAIN
- NEW 27'-6" WIDE x 11' DEEP x 7' TALL UNCOVERED TRASH ENCLOSURE WITH SLIDING BARN STYLE DOOR. ENCLOSURE WILL FIT (4) 4-YARD CONTAINERS AND (4) ROLLING CARTS FOR FOOD WASTE AND GLASS RECYCLING. SLIDING DOOR FACES DRIVE AISLE.
- FREESTANDING METAL CANOPY SUPPORTED BY STRUCTURAL STEEL FRAME CARPORT
- NEW ELECTRICAL EQUIPMENT, PER ELECTRICAL
- TREE PROTECTION FENCING TO BE INSTALLED PER CITY OF BEAVERTON STANDARDS, LAYOUT TO BE VERIFIED BY ARBORIST PRIOR TO START OF CONSTRUCTION. MODIFICATIONS OF STANDARD TREE PROTECTION FENCING TO BE INSTALLED PER ARBORIST REPORT TO ACCOMMODATE CONSTRUCTION REQUIREMENTS - TYP AT ALL LOCATIONS WHERE EXISTING TREES ARE PRESERVED. SEE TREE PROTECTION AND REMOVAL PLAN FOR ADDITIONAL INFORMATION
- SHORT TERM BIKE PARKING 'STAPLE' RACK, 2 SPACES
- LONG TERM BIKE PARKING WALL MOUNTED RACKS INSTALLED PER MANUFACTURER INSTRUCTIONS, PROTECTED IN BUILDING INTERIOR, 2 SPACES
- NEW ENTRY VESTIBULE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION



B4 SHORT TERM BIKE PARKING
1" = 10'-0"



A4 LONG TERM BIKE PARKING
1" = 10'-0"



A1 PROPOSED SITE PLAN
1" = 20'-0"

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DEPARTMENT NAME:
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 (ISB)**

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 BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
1	DESIGN REVIEW	05/25/23

SHEET NUMBER:

DR-300

SHEET NAME:
**ARCHITECTURAL
 ELEVATIONS**

DRAWN BY: Author
 SHEET ISSUE DATE: 05/25/23
 CHECKED BY: Checker

STATUS:
**50% CONSTRUCTION
 DOCUMENTS**

EXTERIOR MATERIALS

CSR-1	COMPOSITE SHINGLE ROOFING
FCP-1	FIBER CEMENTITIOUS PANEL
FCP-2	FIBER CEMENTITIOUS PANEL
FCP-3	FIBER CEMENTITIOUS PANEL
WDX-1	EXTERIOR WOOD AND SOFFIT
WDX-2	EXTERIOR WOOD FENCE



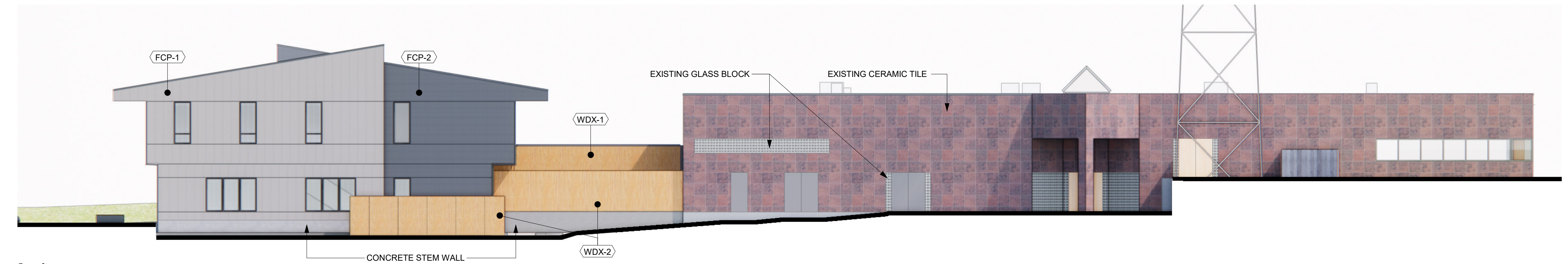
D1 NORTH ELEVATION
 3/32" = 1'-0"



C1 SOUTH ELEVATION
 3/32" = 1'-0"



B1 WEST ELEVATION
 3/32" = 1'-0"



A1 EAST ELEVATION
 3/32" = 1'-0"



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REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE

SHEET NUMBER:

DR-400

SHEET NAME:
PROJECT IMAGES

DRAWN BY: Author SHEET ISSUE DATE: 05/25/23

CHECKED BY: Checker

STATUS:

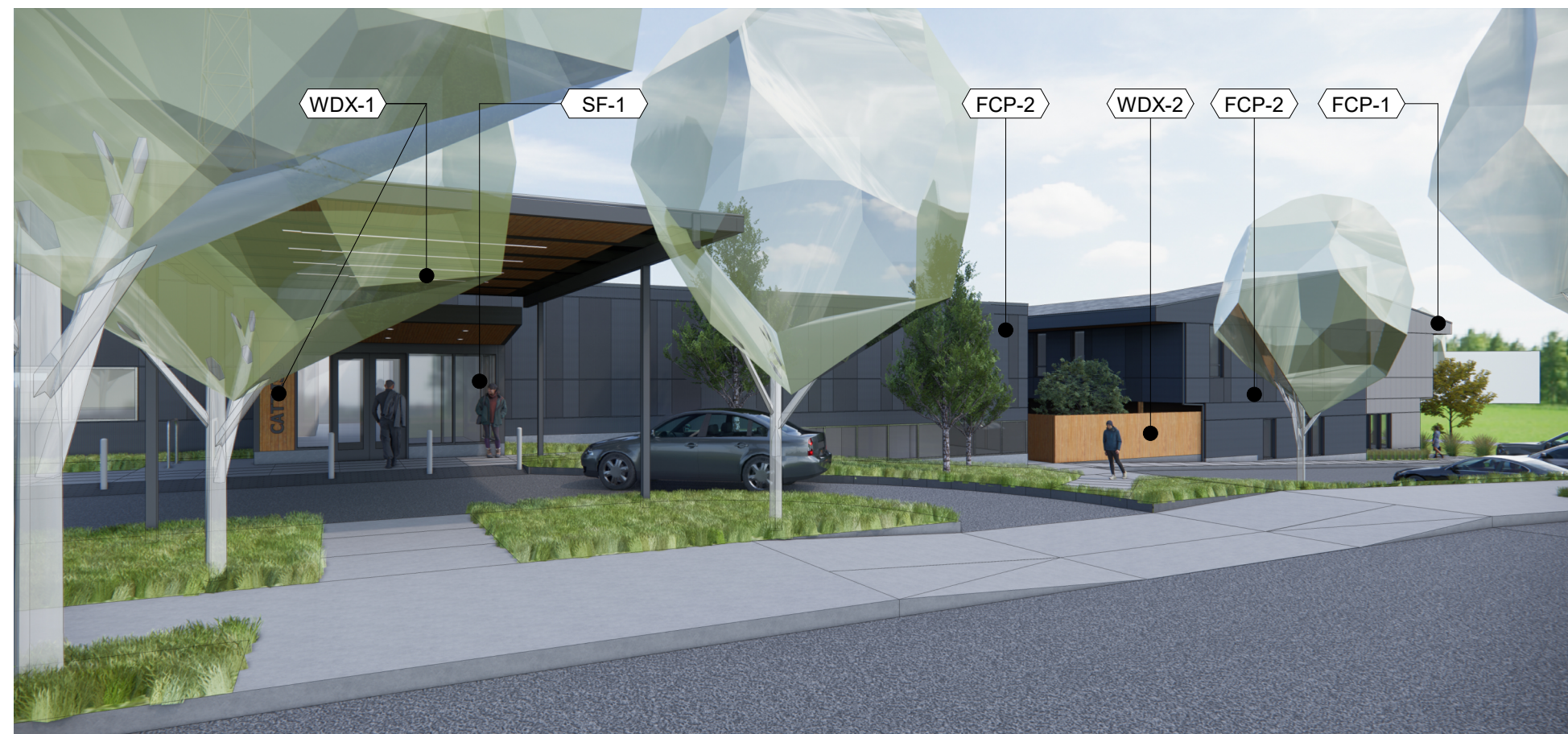
**50% CONSTRUCTION
DOCUMENTS**

D



C1 VIEW FROM SW
12" = 1'-0"

C



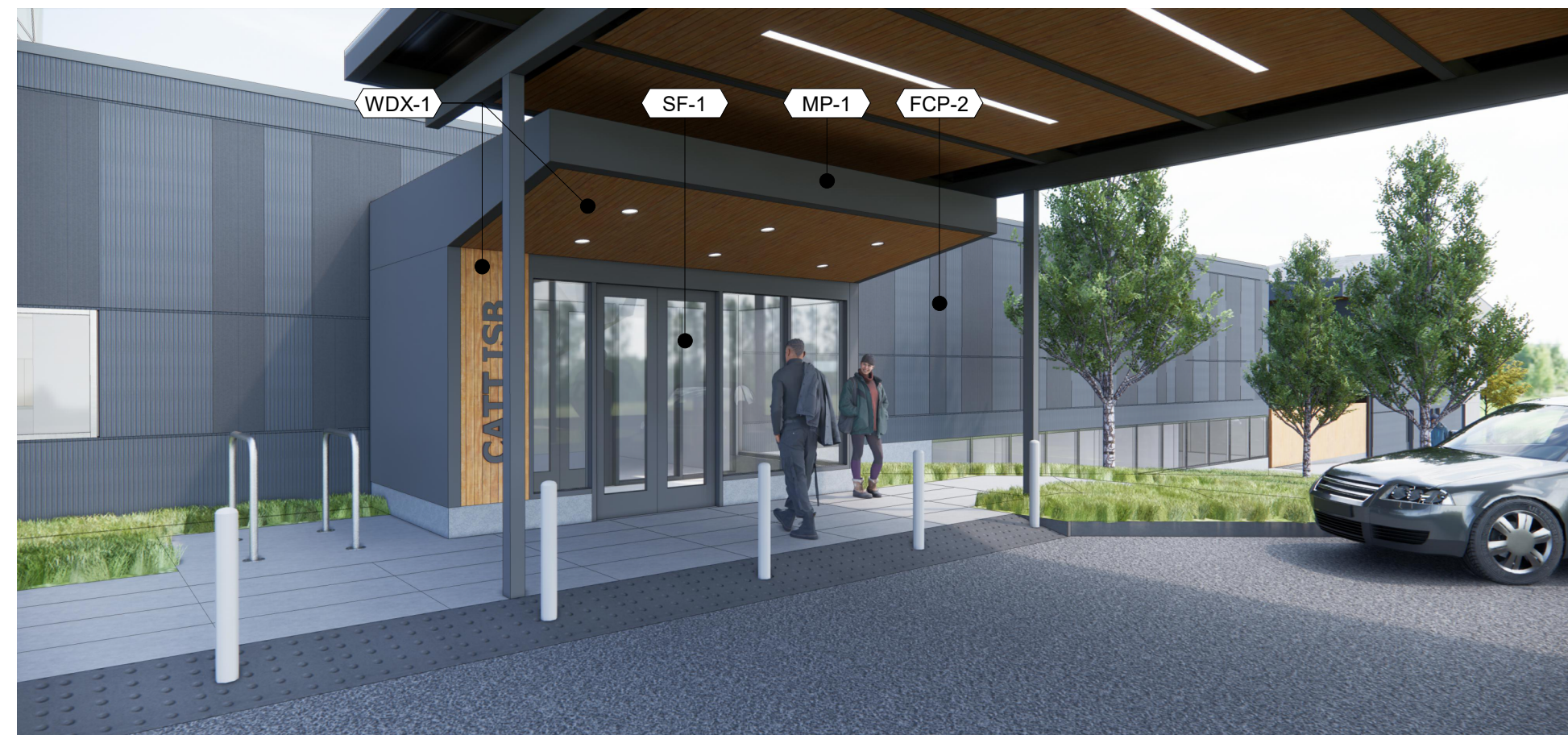
B1 MAIN ENTRY
12" = 1'-0"

B

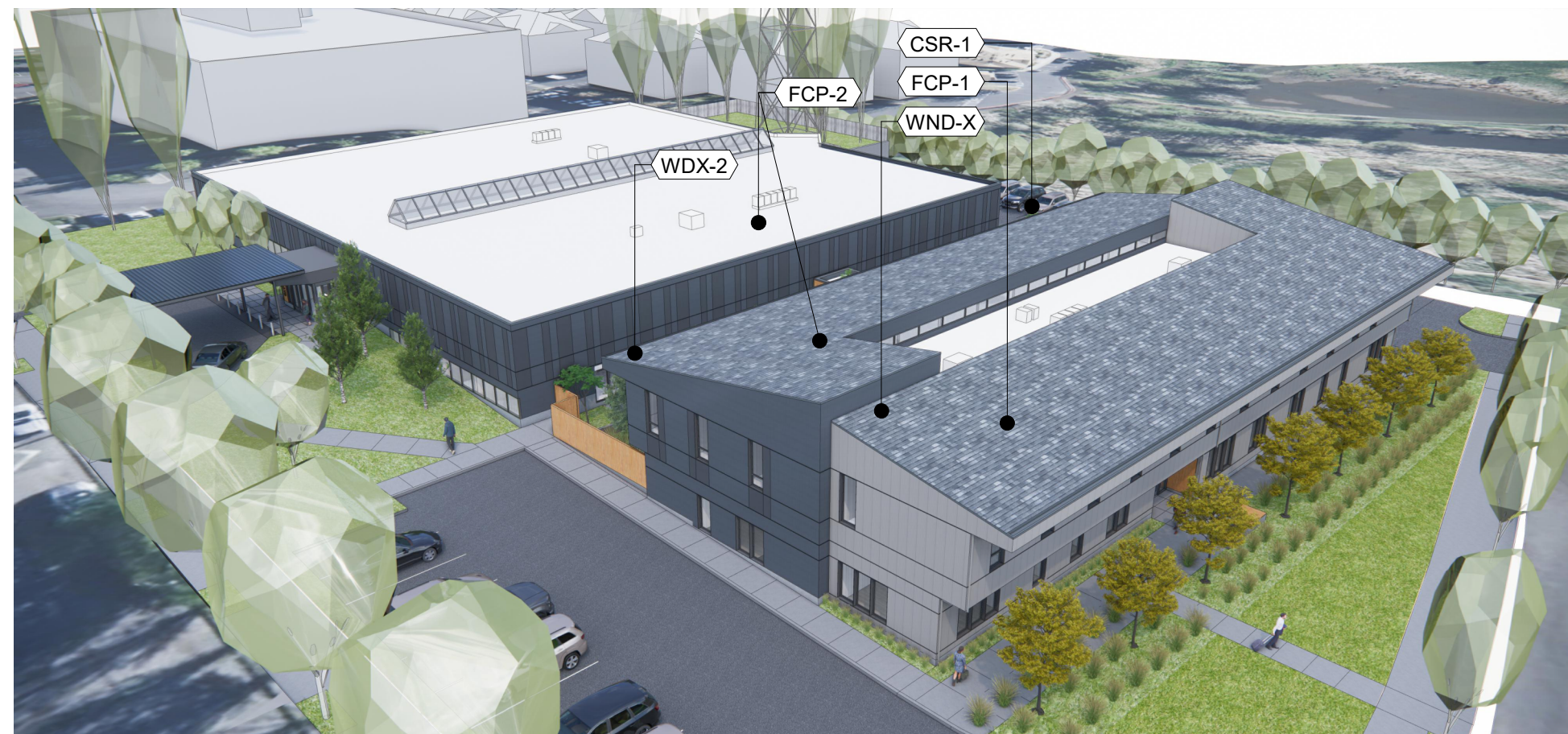


C2 EXTERIOR RESIDENTIAL ENTRY
12" = 1'-0"

B2 MAIN ENTRY 2
12" = 1'-0"



A



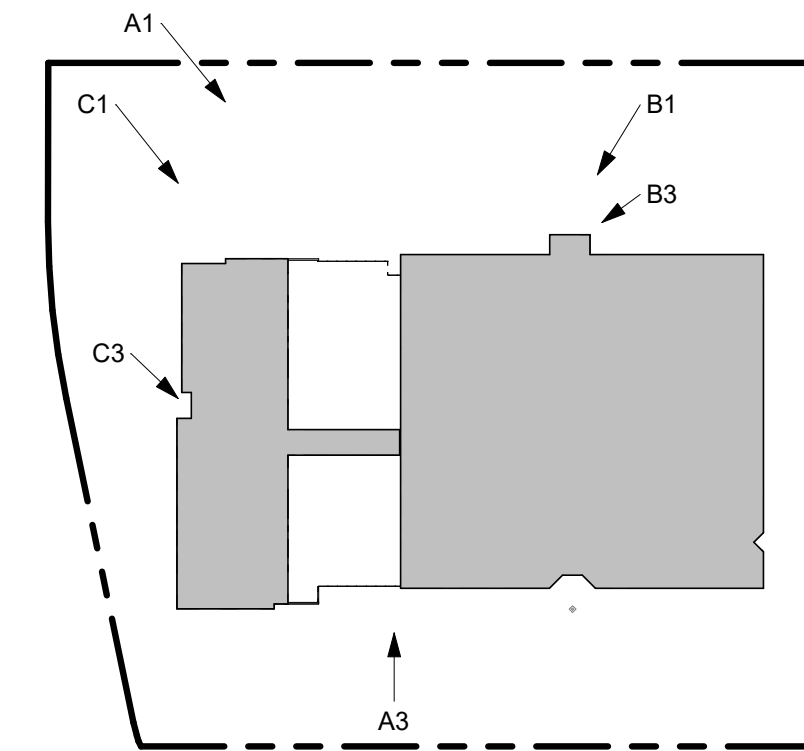
A1 SW AERIAL
12" = 1'-0"



A2 SE AERIAL
12" = 1'-0"

EXTERIOR MATERIALS

- CSR-1 COMPOSITE SHINGLE ROOFING
- FCP-1 FIBER CEMENTITIOUS PANEL
- FCP-2 FIBER CEMENTITIOUS PANEL
- FCP-3 FIBER CEMENTITIOUS PANEL
- WDX-1 EXTERIOR WOOD AND SOFFIT
- WDX-2 EXTERIOR WOOD FENCE



KEY PLAN

TREE MITIGATION CALCULATIONS

TOTAL DBH OF SURVEYED TREES	1,095
MITIGATION THRESHOLD (50%)	547.5
TREE REMOVAL (DBH)	
CONIFEROUS	221
DECIDUOUS	231
MITIGATION	
TOTAL DBH COMMUNITY TREES TO BE REMOVED:	385
TOTAL DBH PROPOSED TREES ON-SITE	78
UNMITIGATION	307

KEYNOTES

- 01 TREE ROOT PROTECTION ZONE (PRESCRIPTIVE, 1' RADIUS PER 1" DBH), SEE EXISTING TREE INVENTORY FOR SPECIFIC TREE SIZES
- 02 TREE PROTECTION FENCING, LAYOUT TO BE FIELD VERIFIED BY PROJECT ARBORIST
- 03 FENCING HELD OFF OF PROPOSED HARDSCAPE FOR CONSTRUCTABILITY
- 04 ARBORIST TO BE PRESENT FOR ALL EXCAVATION WITHIN STANDARD PROTECTION ZONE
- 05 MODIFIED TREE PROTECTION FENCING TO ALLOW FOR POTENTIAL CONSTRUCTION ENCROACHMENT OF TREE PROTECTIVE ROOT ZONE. ARBORIST TO FIELD VERIFY AND MODIFY AS NEEDED.
- 06 EXISTING FENCE, AND/OR STRUCTURE TO BE UTILIZED AS PROTECTION FENCING.
- 07 EXTENT OF PROTECTIVE ROOT ZONE FOR DENSE TREE CLUSTER

LANDSCAPE LEGEND

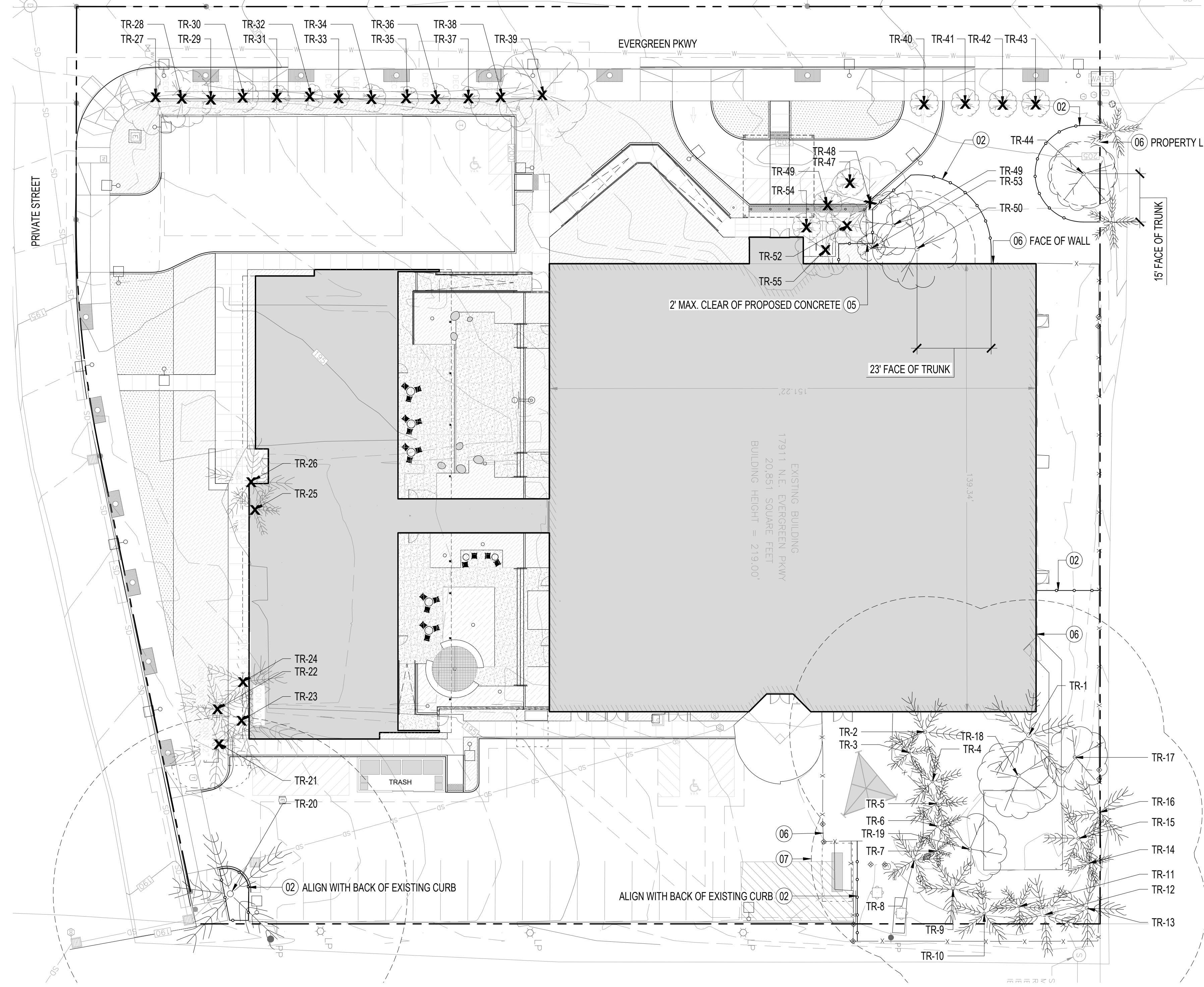
- PROPERTY LINE
- EXISTING TREE
- TREE PROTECTION FENCING (6' CHAIN LINK FENCE W/ 8' METAL POSTS)
- STANDARD TREE ROOT PROTECTION ZONE
- EXISTING TREE TO BE REMOVED

GENERAL TREE REMOVAL AND PRESERVATION NOTES

- TREE PROTECTION LINE REPRESENTS AN ESTIMATED ROOT PROTECTION ZONE PER CITY OF BEAVERTON CODE 60.60.20. THE ROOT PROTECTION ZONE IS A CIRCULAR AREA AROUND A TREE THAT IS BASED ON THE DIAMETER OF THE TREE. EACH 1 INCH DIAMETER OF PRESERVED TREE CALIPER EQUALS 1 FOOT RADIUS FOR TREE PROTECTION ZONE FROM FACE OF TRUNK.
- CONTRACTOR RESPONSIBLE FOR GROUND-TRUTHING AND STAKING TREE PROTECTION LINE FOR PROJECT LANDSCAPE ARCHITECT REVIEW PRIOR TO CONSTRUCTION.
- SEE ARBORIST REPORT FOR SITE SPECIFIC TREE PROTECTION REQUIREMENTS.
- CONTRACTOR RESPONSIBLE FOR FLAGGING AND NOTIFYING PROJECT LANDSCAPE ARCHITECT AND PROJECT ARBORIST OF ANY WORK TO BE COMPLETED WITHIN TREE ROOT PROTECTION ZONES SHOWN PER PLAN.
- CONTRACTOR RESPONSIBLE FOR FLAGGING PRESERVED TREES FOR PROJECT LANDSCAPE ARCHITECT REVIEW PRIOR TO CONSTRUCTION.
- ANY TREE PRUNING REQUIRED TO ALLOW FENCE INSTALLATION SHALL BE COMPLETED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
- STREET TREE ACTIVITY NOT APPROVED UNDER THIS PERMIT. SEE SEPARATE PERMIT FOR INFORMATION ON PERMITTED STREET TREE ACTIVITY.
- LANDSCAPING WITHIN THE TREE PROTECTION ZONES SHALL OCCUR BY HAND ACCORDING TO THE FOLLOWING SPECIFICATIONS:
 - REMOVAL OF UNWANTED VEGETATION SHALL OCCUR BY HAND REMOVAL OR WITH AN APPROVED HERBICIDE ACCORDING TO LABEL DIRECTIONS WITHIN THE DRIPLINES OF THE TREES TO BE RETAINED.
 - PLANTING WITHIN THE TREE DRIPLINES SHALL OCCUR BY HAND WITH THE NEW PLANTING ADJUSTED AS NEED TO AVOID DAMAGE TO ROOTS OVER 2-INCH DIAMETER.
 - THE WATER REGIME REQUIRED FOR NEW PLANTINGS SHALL BE CONSISTENT WITH THE WATER REQUIREMENTS OF ADJACENT TREES SO AS NOT TO SIGNIFICANTLY ALTER PRE-CONSTRUCTION SOIL MOISTURE LEVELS. IRRIGATION WITHIN THE TREE DRIPLINES SHALL NOT BE TRENCHED AND SHALL ONLY BE APPLIED TO ALLOW ESTABLISHMENT OF SPECIFIC PLANTINGS. DRIP IRRIGATION IS REQUIRED.
- WITHIN THE PROTECTED ROOT ZONE OF EACH TREE, THE FOLLOWING DEVELOPMENT SHALL NOT BE PERMITTED, EXCEPT WHERE APPROVED BY PROJECT ARBORIST:
 - GRADE CHANGES, FILL OR EXCAVATION, EXCEPT FOR APPROVED HAND EXCAVATION.
 - MECHANICAL TRENCHING FOR UTILITIES, IRRIGATION, OR DRAINAGE.
 - STAGING OR STORAGE OF SPOIL, CONSTRUCTION MATERIALS, EQUIPMENT, OR LIQUIDS.

EXISTING TREE INVENTORY

TREE ID #	TREE SPECIES	DBH	TREE CLASSIFICATION	REMOVE/PROTECT	MITIGATION
TR-1	Giant Sequoia - <i>Sequoiadendron giganteum</i>	42	COMMUNITY TREE	PROTECT	NO
TR-2	Giant Sequoia - <i>Sequoiadendron giganteum</i>	33	COMMUNITY TREE	PROTECT	NO
TR-3	Giant Sequoia - <i>Sequoiadendron giganteum</i>	31	COMMUNITY TREE	PROTECT	NO
TR-4	Giant Sequoia - <i>Sequoiadendron giganteum</i>	30	COMMUNITY TREE	PROTECT	NO
TR-5	Giant Sequoia - <i>Sequoiadendron giganteum</i>	29	COMMUNITY TREE	PROTECT	NO
TR-6	Giant Sequoia - <i>Sequoiadendron giganteum</i>	24	COMMUNITY TREE	PROTECT	NO
TR-7	Giant Sequoia - <i>Sequoiadendron giganteum</i>	21	COMMUNITY TREE	PROTECT	NO
TR-8	Giant Sequoia - <i>Sequoiadendron giganteum</i>	32	COMMUNITY TREE	PROTECT	NO
TR-9	Giant Sequoia - <i>Sequoiadendron giganteum</i>	31	COMMUNITY TREE	PROTECT	NO
TR-10	Giant Sequoia - <i>Sequoiadendron giganteum</i>	32	COMMUNITY TREE	PROTECT	NO
TR-11	Giant Sequoia - <i>Sequoiadendron giganteum</i>	23	COMMUNITY TREE	PROTECT	NO
TR-12	Giant Sequoia - <i>Sequoiadendron giganteum</i>	32	COMMUNITY TREE	PROTECT	NO
TR-13	Giant Sequoia - <i>Sequoiadendron giganteum</i>	37	COMMUNITY TREE	PROTECT	NO
TR-14	Giant Sequoia - <i>Sequoiadendron giganteum</i>	33	COMMUNITY TREE	PROTECT	NO
TR-15	Giant Sequoia - <i>Sequoiadendron giganteum</i>	32	COMMUNITY TREE	PROTECT	NO
TR-16	Giant Sequoia - <i>Sequoiadendron giganteum</i>	32	COMMUNITY TREE	PROTECT	NO
TR-17	Japanese Maple - <i>Acer palmatum</i>	11	COMMUNITY TREE	PROTECT	NO
TR-18	Japanese Maple - <i>Acer palmatum</i>	10	COMMUNITY TREE	PROTECT	NO
TR-19	Japanese Maple - <i>Acer palmatum</i>	9	LANDSCAPE TREE	PROTECT	NO
TR-20	Giant Sequoia - <i>Sequoiadendron giganteum</i>	52	COMMUNITY TREE	PROTECT	NO
TR-21	Giant Sequoia - <i>Sequoiadendron giganteum</i>	28	COMMUNITY TREE	REMOVE	YES
TR-22	Giant Sequoia - <i>Sequoiadendron giganteum</i>	31	COMMUNITY TREE	REMOVE	YES
TR-23	Giant Sequoia - <i>Sequoiadendron giganteum</i>	38	COMMUNITY TREE	REMOVE	YES
TR-24	Giant Sequoia - <i>Sequoiadendron giganteum</i>	43	COMMUNITY TREE	REMOVE	YES
TR-25	Giant Sequoia - <i>Sequoiadendron giganteum</i>	31	COMMUNITY TREE	REMOVE	YES
TR-26	Giant Sequoia - <i>Sequoiadendron giganteum</i>	50	COMMUNITY TREE	REMOVE	YES
TR-27	Katsura - <i>Cercidiphyllum japonicum</i>	21	COMMUNITY TREE	REMOVE	YES
TR-28	Katsura - <i>Cercidiphyllum japonicum</i>	14	COMMUNITY TREE	REMOVE	YES
TR-29	Katsura - <i>Cercidiphyllum japonicum</i>	11	COMMUNITY TREE	REMOVE	YES
TR-30	Katsura - <i>Cercidiphyllum japonicum</i>	10	COMMUNITY TREE	REMOVE	YES
TR-31	Katsura - <i>Cercidiphyllum japonicum</i>	10	COMMUNITY TREE	REMOVE	YES
TR-32	Katsura - <i>Cercidiphyllum japonicum</i>	11	COMMUNITY TREE	REMOVE	YES
TR-33	Katsura - <i>Cercidiphyllum japonicum</i>	8	LANDSCAPE TREE	REMOVE	YES
TR-34	Katsura - <i>Cercidiphyllum japonicum</i>	9	LANDSCAPE TREE	REMOVE	YES
TR-35	Katsura - <i>Cercidiphyllum japonicum</i>	12	COMMUNITY TREE	REMOVE	YES
TR-36	Katsura - <i>Cercidiphyllum japonicum</i>	10	COMMUNITY TREE	REMOVE	YES
TR-37	Katsura - <i>Cercidiphyllum japonicum</i>	11	COMMUNITY TREE	REMOVE	YES
TR-38	Katsura - <i>Cercidiphyllum japonicum</i>	15	COMMUNITY TREE	REMOVE	YES
TR-39	Katsura - <i>Cercidiphyllum japonicum</i>	39	COMMUNITY TREE	REMOVE	YES
TR-40	Paperbark Maple - <i>Acer griseum</i>	4	LANDSCAPE TREE	REMOVE	YES
TR-41	Paperbark Maple - <i>Acer griseum</i>	4	LANDSCAPE TREE	REMOVE	YES
TR-42	Paperbark Maple - <i>Acer griseum</i>	3	LANDSCAPE TREE	REMOVE	YES
TR-43	Paperbark Maple - <i>Acer griseum</i>	4	LANDSCAPE TREE	REMOVE	YES
TR-44	Norway Maple - <i>Acer platanoides</i>	10	COMMUNITY TREE	PROTECT	NO
TR-47	Japanese Maple - <i>Acer palmatum</i>	4	LANDSCAPE TREE	REMOVE	NO
TR-48	Katsura - <i>Cercidiphyllum japonicum</i>	10	LANDSCAPE TREE	REMOVE	YES
TR-49	Katsura - <i>Cercidiphyllum japonicum</i>	10	LANDSCAPE TREE	PROTECT	NO
TR-50	Katsura - <i>Cercidiphyllum japonicum</i>	18	LANDSCAPE TREE	PROTECT	NO
TR-51	Japanese Maple - <i>Acer palmatum</i>	9	LANDSCAPE TREE	REMOVE	YES
TR-52	Katsura - <i>Cercidiphyllum japonicum</i>	14	LANDSCAPE TREE	REMOVE	YES
TR-53	Katsura - <i>Cercidiphyllum japonicum</i>	12	LANDSCAPE TREE	PROTECT	NO
TR-54	Japanese Maple - <i>Acer palmatum</i>	4	LANDSCAPE TREE	REMOVE	NO
TR-55	Katsura - <i>Cercidiphyllum japonicum</i>	15	LANDSCAPE TREE	REMOVE	YES



TREE PROTECTION AND REMOVAL PLAN L1 plan

1"=20'

Washington County
Support Services
Facilities and Parks Services Division
Capital Improvement Projects

169 N 1st Ave
Hillsboro, OR 97124
503-846-8751
MFFacilitiesExternal@co.washington.or.us
www.co.washington.or.us

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NO.	DESCRIPTION	DATE

SHEET NUMBER:
DR-501

SHEET NAME:
TREE PROTECTION
AND REMOVAL PLAN

DRAWN BY: ADC SHEET ISSUE DATE: 08/22/23

CHECKED BY: TS

STATUS:
DESIGN REVIEW



FROELICH ENGINEERS
17700 SW UPPER BOONES FERRY RD
PORTLAND, OREGON 97223
(503) 624-7005
froelich-engineers.com



SHEET NOTES

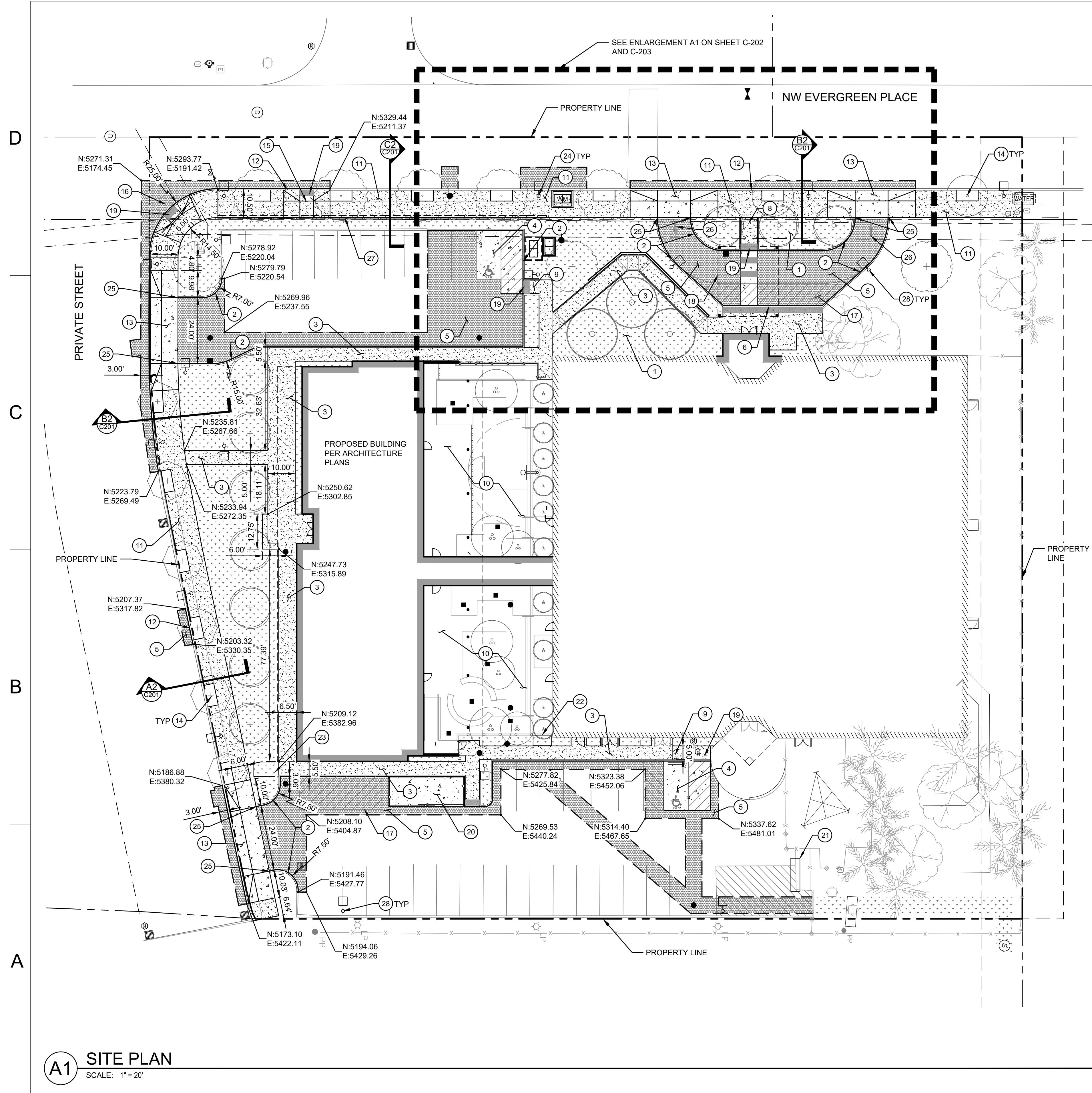
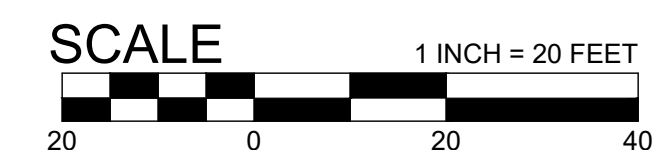
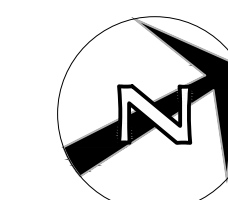
1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.

KEY NOTES

- 1 LANDSCAPING PER LANDSCAPE PLANS
- 2 CONSTRUCT STANDARD CURB C2
C503
- 3 CONSTRUCT SIDEWALK D2
C503
- 4 CONSTRUCT ADA STALLS C3
C503
- 5 ASPHALT PAVEMENT A3
C503
- 6 FLUSH CURB
- 7 ADA RAMP - TYPE 1 C3
C504
- 8 ADA RAMP - TYPE 2 C1
C503
- 9 ADA RAMP - TYPE 3 B3
C504
- 10 CONSTRUCT COURTYARD PER LANDSCAPE PLANS
- 11 CONSTRUCT CURB TIGHT SIDEWALK C2
C500
- 12 CONSTRUCT CURB C3
C500
- 13 CONSTRUCT DRIVEWAY A3
C500
- 14 INSTALL TREE WITH GRATE C1
C500
- 15 CONSTRUCT MIDBLOCK ADA RAMP A2
C502
- 16 CONSTRUCT SINGLE CURB RAMP A2
C500
- 17 STRIPED LOADING ZONE
- 18 CANOPY STRUCTURE PER ARCHITECTURAL PLANS
- 19 DETECTABLE WARNING
- 20 TRASH ENCLOSURE PER ARCHITECTURAL PLANS
- 21 GENERATOR PER ELECTRICAL PLANS
- 22 SWITCHGEAR BOX PER ELECTRICAL PLANS
- 23 ELECTRICAL TRANSFORMER PER ELECTRICAL PLANS
- 24 STREET LIGHTING PER ELECTRICAL PLANS
- 25 CURB ENDING A2
C503
- 26 ONE WAY ARROW PAVEMENT MARKING
- 27 RETAINING WALL PER STRUCTURAL PLANS
- 28 SITE LIGHTING PER ELECTRICAL PLANS

SHEET LEGEND

- PROPERTY LINE
- LANDSCAPING, SEE LANDSCAPE PLANS
- CONCRETE WALKWAYS/SIDEWALK D2
C503
- HEAVY CONCRETE A1
C503
- AC PAVEMENT A3
C503



A1 SITE PLAN
SCALE: 1" = 20'

ARCHITECT PROJECT NUMBER:
22-010

HOLST

123 NE 3RD AVE.
SUITE 310
PORTLAND, OR
97232

HOLSTARC.COM

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
**EVERGREEN (EVGR) -
INTENSIVE SERVICES**

DEPARTMENT NAME:
**HEALTH AND HUMAN
SERVICES**

PROJECT NAME:
**CATT - INTENSIVE
SERVICES BUILDING
(ISB)**

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	90% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-200

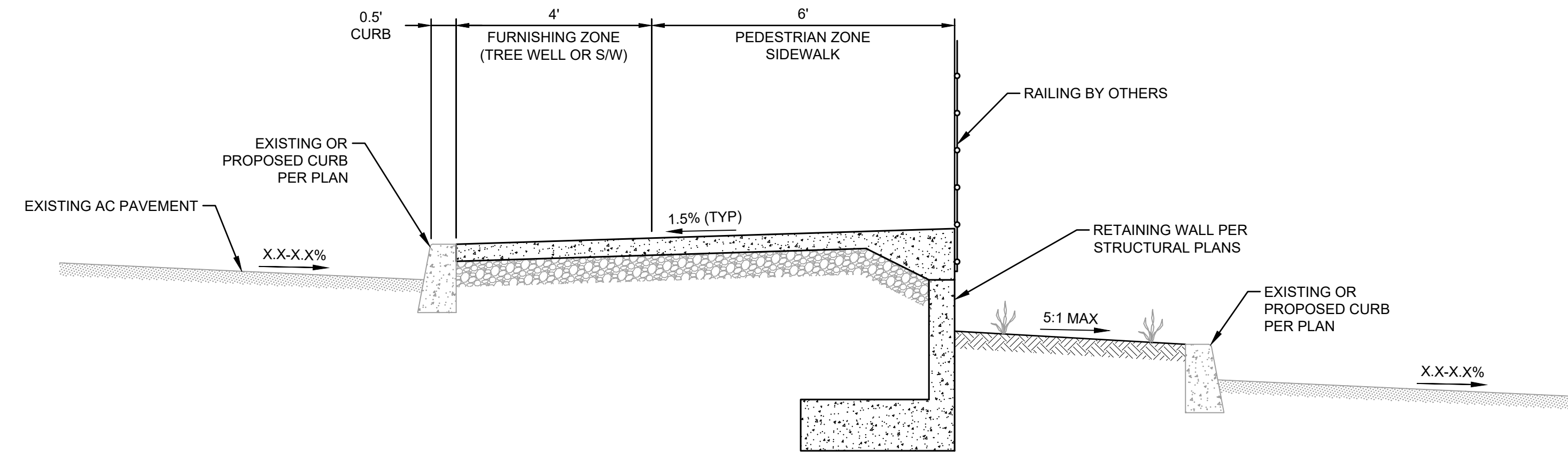
SHEET NAME:
SITE PLAN

DRAWN BY: SHEET ISSUE DATE:
BLU 04/19/23

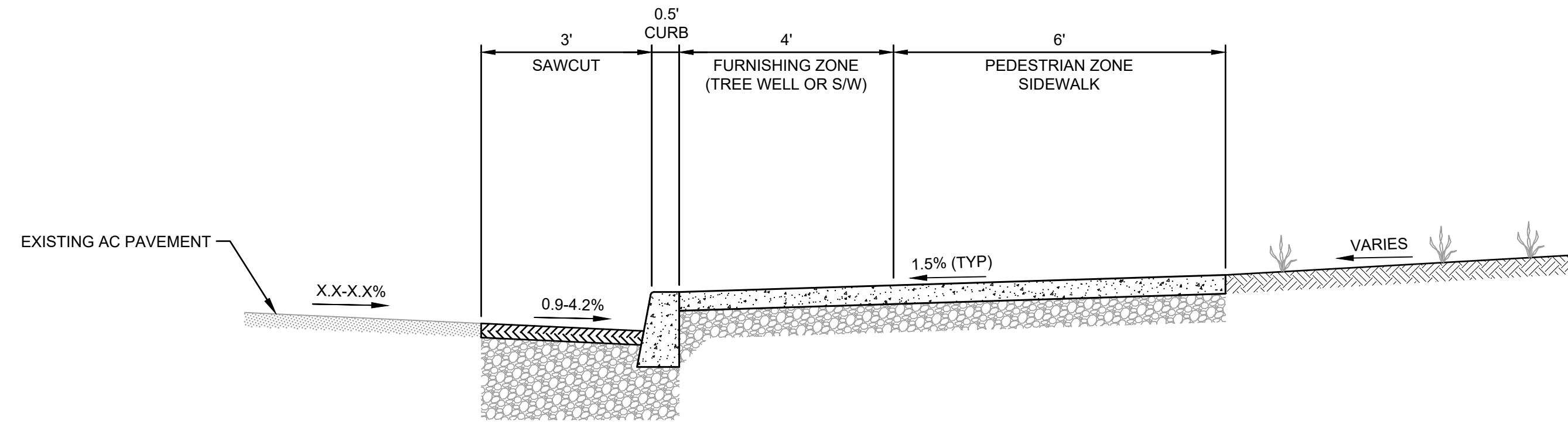
CHECKED BY:
EME

STATUS:
DESIGN REVIEW

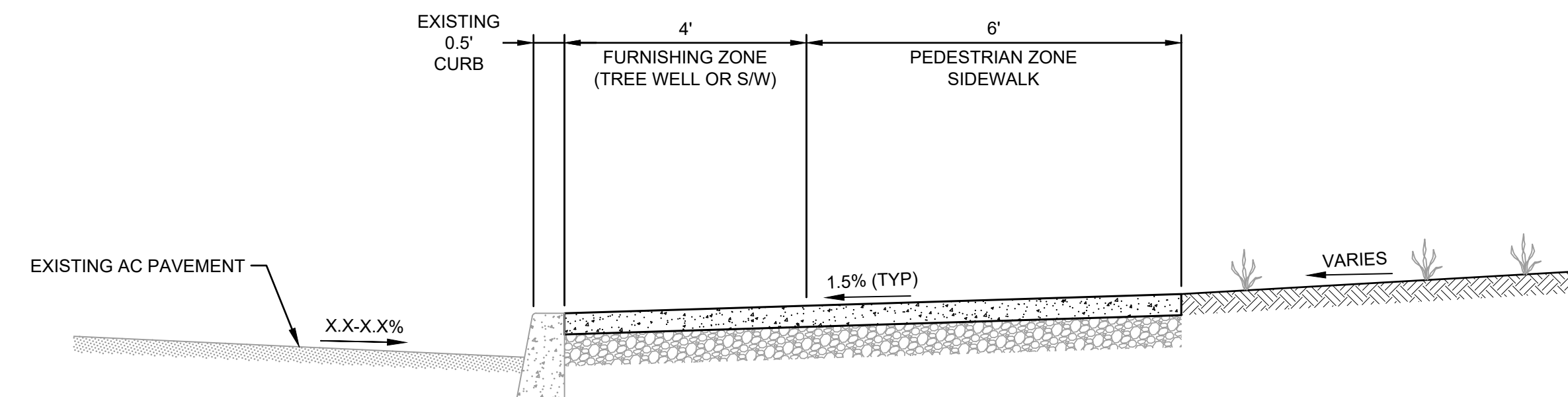
D
C
B
A



C2 TYP. SECTION
SCALE: NTS



B2 TYP. SECTION
SCALE: NTS



A2 TYP. SECTION
SCALE: NTS

Washington County

Support Services
Facilities and Parks Services Division
Capital Improvement Projects

189 N 1st Ave
Hillsboro, OR 97124
503-846-8751
MFacilitiesExternal@co.washington.or.us
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ARCHITECT PROJECT NUMBER:
22-010

H O L S T

123 NE 3RD AVE.
SUITE 310
PORTLAND, OR
97232

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COUNTY PROJECT NUMBER:
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BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-201

SHEET NAME:

**SITE
SECTIONS**

DRAWN BY: BLU SHEET ISSUE DATE: 04/19/23

CHECKED BY: EME

STATUS:

DESIGN REVIEW



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REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
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C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-202

SHEET NAME:
**SITE
ENLARGEMENT**

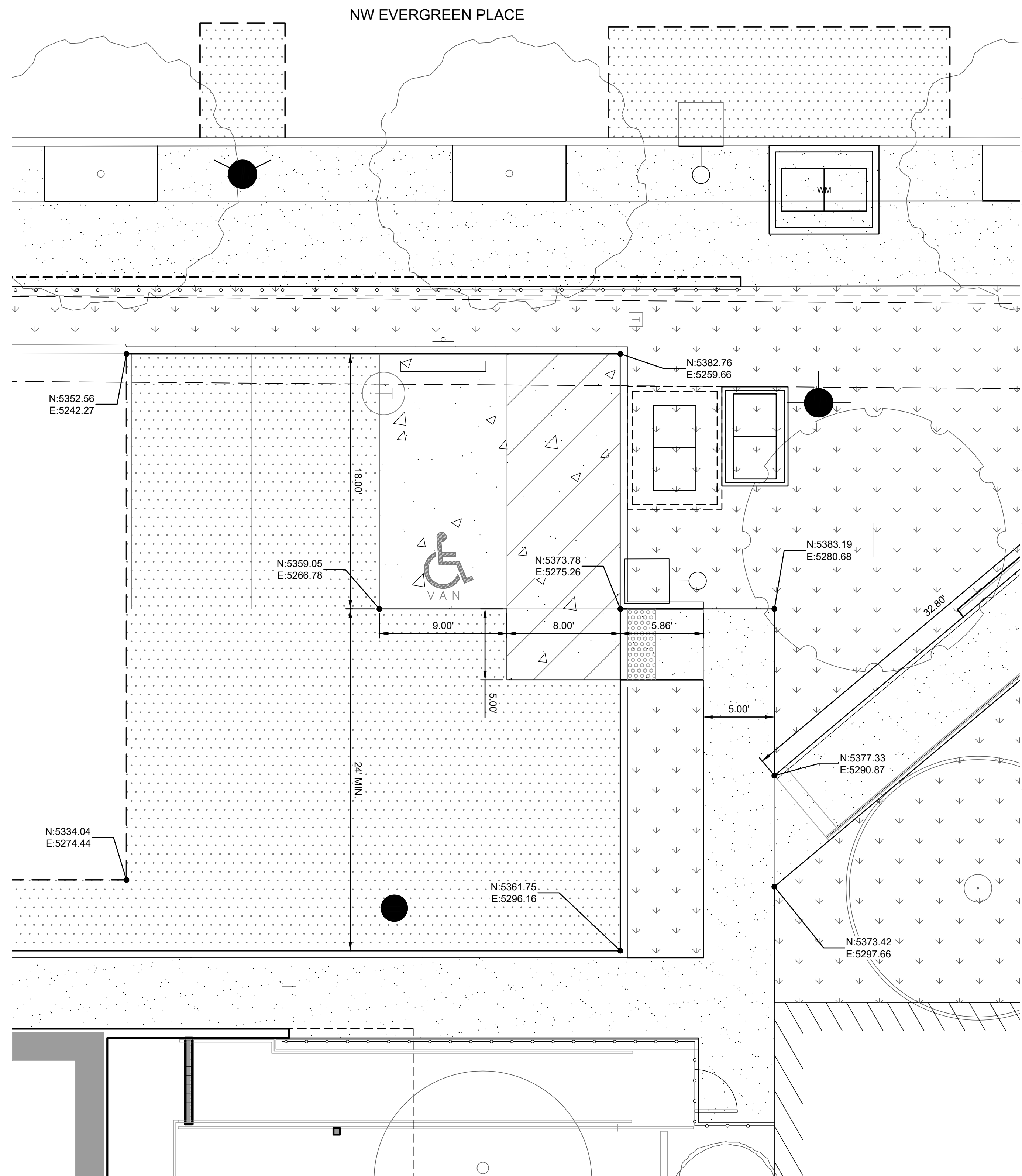
DRAWN BY: BLU SHEET ISSUE DATE: 04/19/23

CHECKED BY: EME

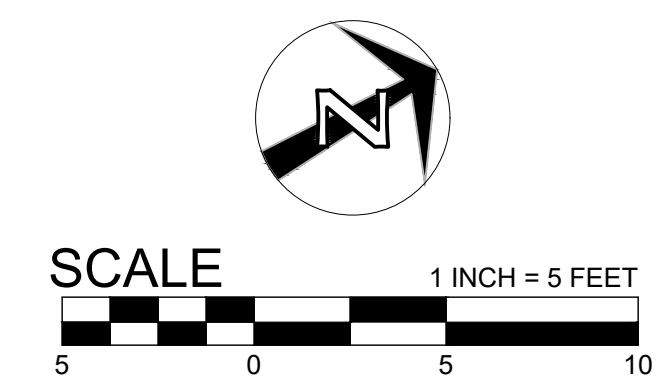
STATUS:
DESIGN REVIEW

D
C
B
A

MATCHLINE SEE SHEET C-203



A1 SITE PLAN ENLARGEMENT
SCALE: 1" = 5'



1

2

3

4



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ARCHITECT PROJECT NUMBER:
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HOLST

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97232

HOLSTARC.COM

COUNTY PROJECT NUMBER:
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DEPARTMENT NAME:
HEALTH AND HUMAN SERVICES

PROJECT NAME:
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BEAVERTON, OR 97006

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E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

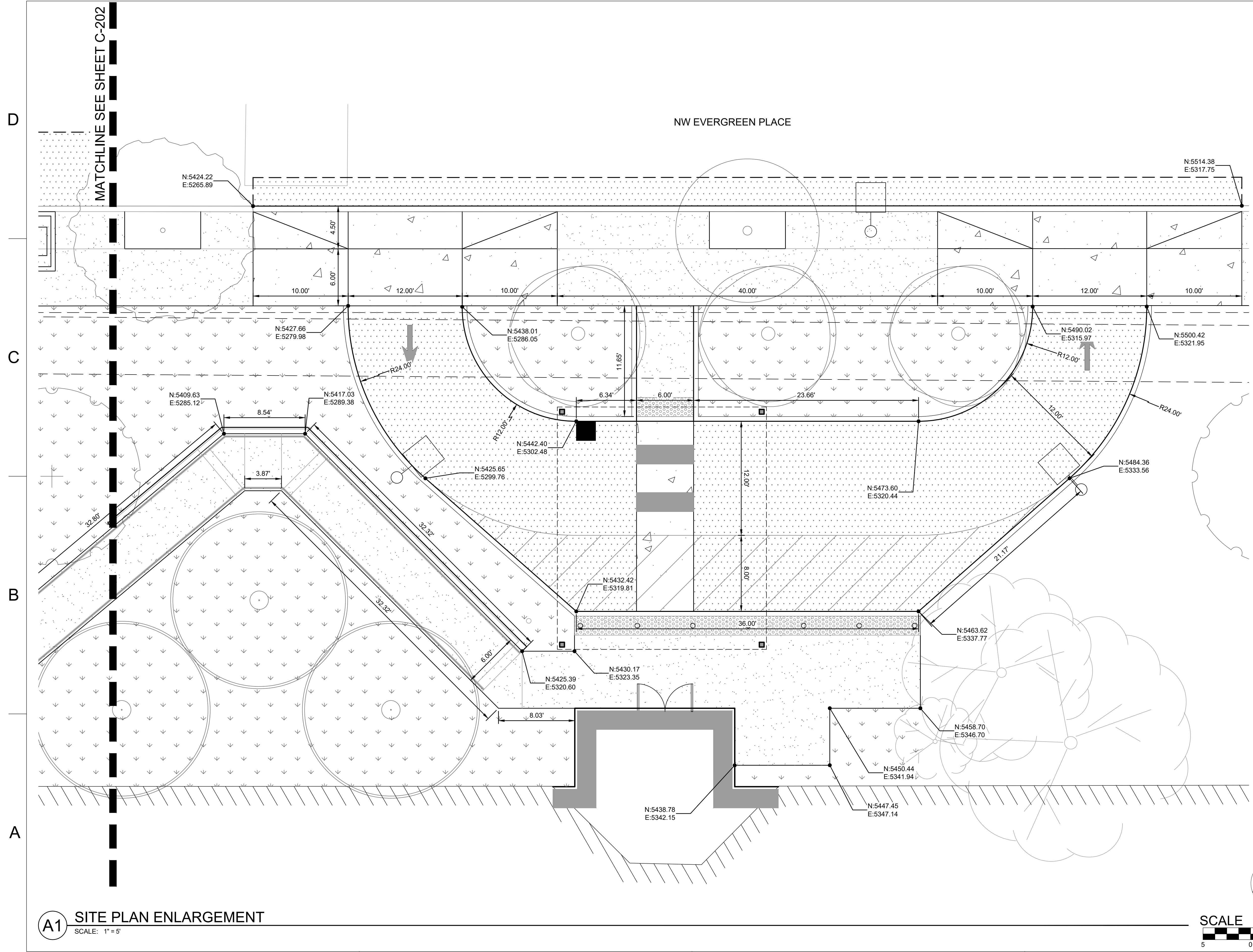
C-203

SHEET NAME:
SITE ENLARGEMENT

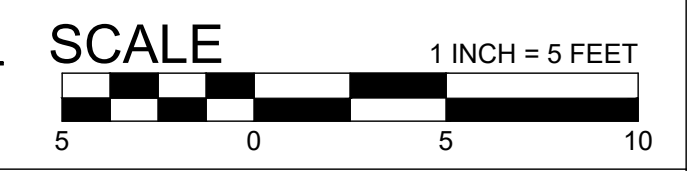
DRAWN BY: BLU SHEET ISSUE DATE: 04/19/23

CHECKED BY: EME

STATUS:
DESIGN REVIEW



A1 SITE PLAN ENLARGEMENT
SCALE: 1" = 5'



1 2 3 4



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NO.	DESCRIPTION	DATE
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C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

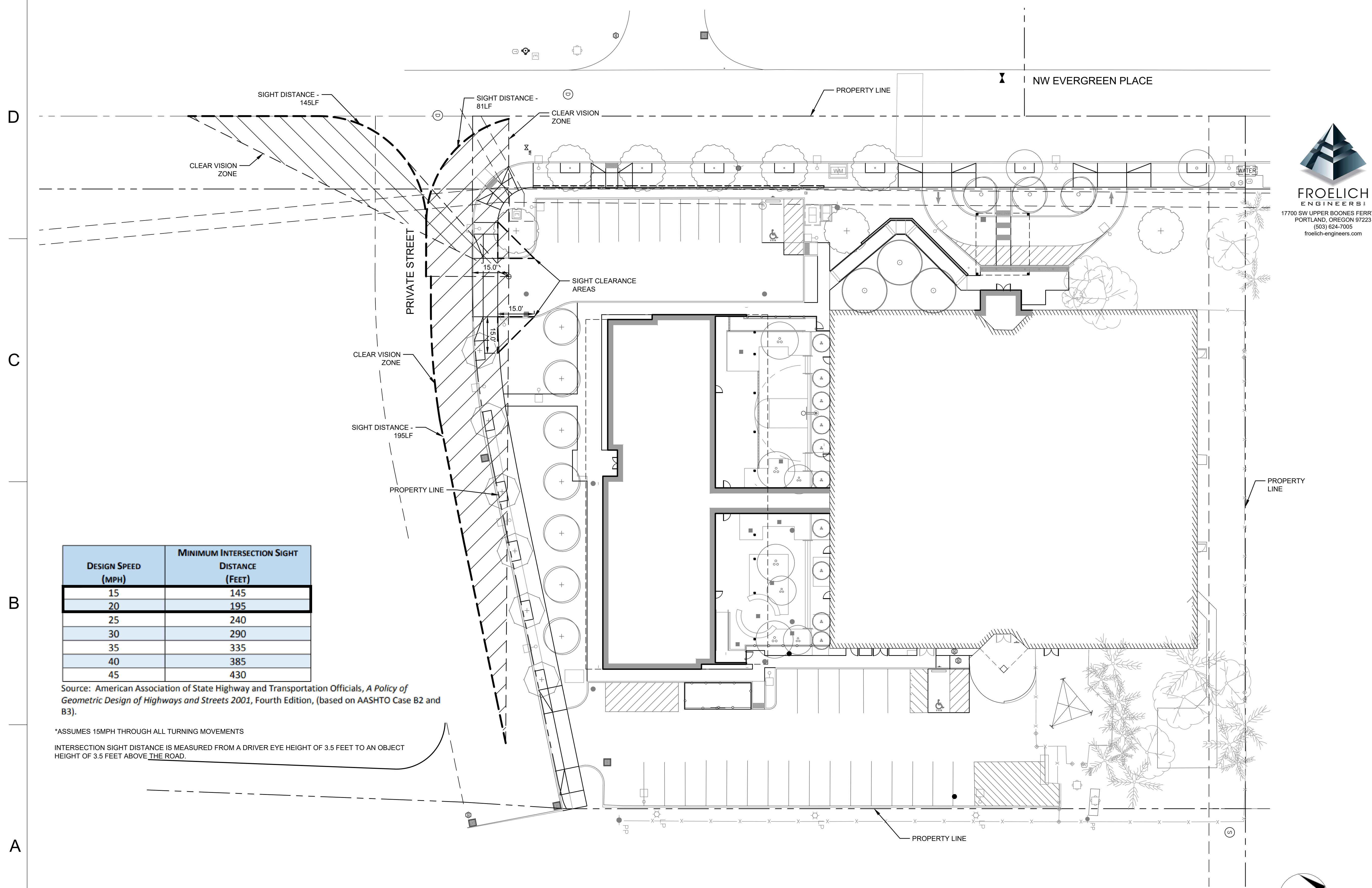
C-204

SHEET NAME:
**INTERSECTION SIGHT
DISTANCE PLAN**

DRAWN BY: BLU SHEET ISSUE DATE:
04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW



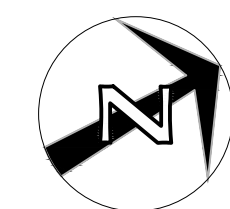
DESIGN SPEED (MPH)	MINIMUM INTERSECTION SIGHT DISTANCE (FEET)
15	145
20	195
25	240
30	290
35	335
40	385
45	430

Source: American Association of State Highway and Transportation Officials, *A Policy of Geometric Design of Highways and Streets 2001*, Fourth Edition, (based on AASHTO Case B2 and B3).

*ASSUMES 15MPH THROUGH ALL TURNING MOVEMENTS
INTERSECTION SIGHT DISTANCE IS MEASURED FROM A DRIVER EYE HEIGHT OF 3.5 FEET TO AN OBJECT HEIGHT OF 3.5 FEET ABOVE THE ROAD.

A1 INTERSECTION SIGHT DISTANCE PLAN

SCALE: 1" = 20'

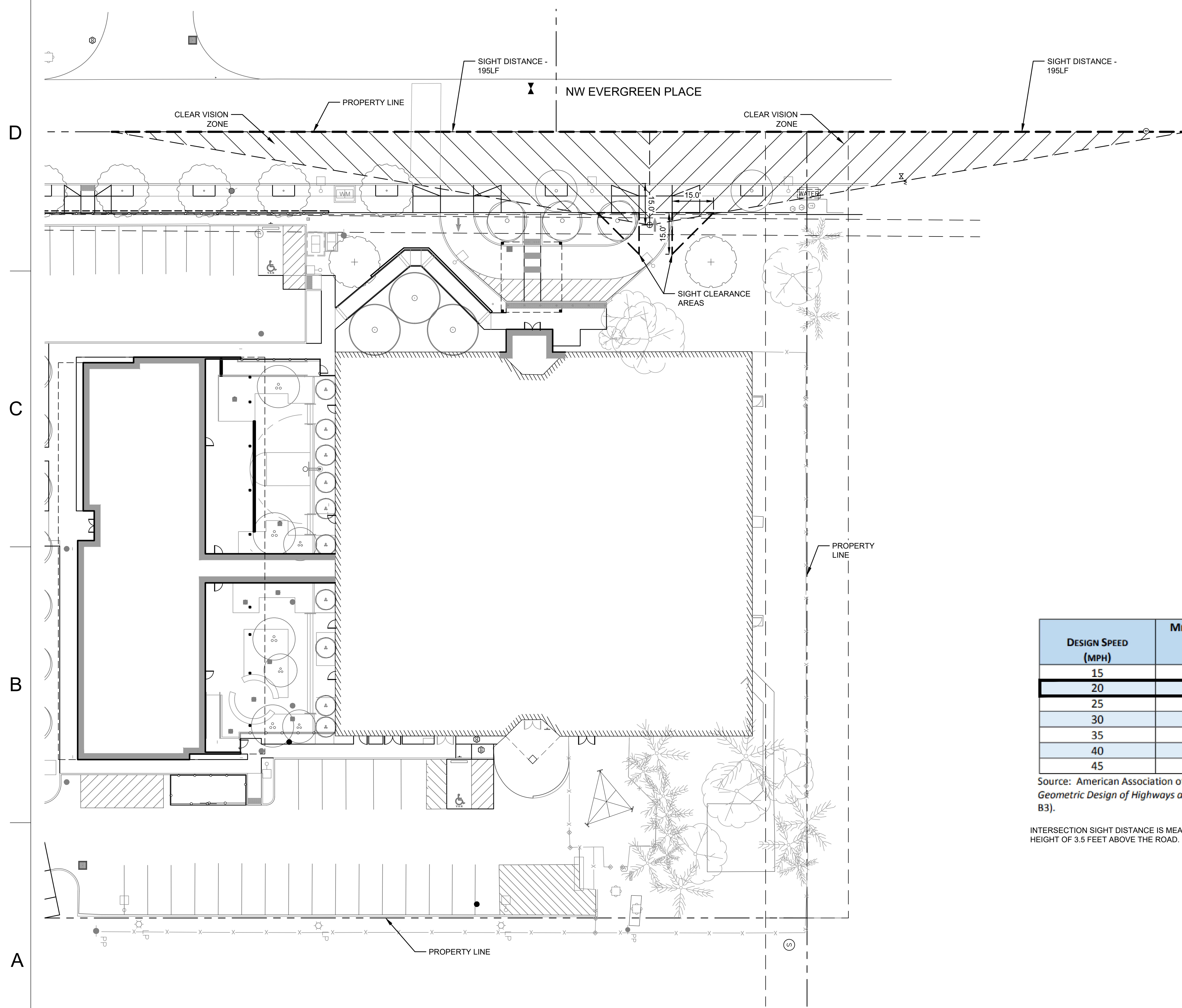


1

2

3

4



DESIGN SPEED (MPH)	MINIMUM INTERSECTION SIGHT DISTANCE (FEET)
15	145
20	195
25	240
30	290
35	335
40	385
45	430

Source: American Association of State Highway and Transportation Officials, *A Policy of Geometric Design of Highways and Streets 2001*, Fourth Edition, (based on AASHTO Case B2 and B3).

INTERSECTION SIGHT DISTANCE IS MEASURED FROM A DRIVER EYE HEIGHT OF 3.5 FEET TO AN OBJECT HEIGHT OF 3.5 FEET ABOVE THE ROAD.

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ARCHITECT PROJECT NUMBER:
22-010

HOLST

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SUITE 310
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97232

HOLSTARC.COM

COUNTY PROJECT NUMBER:
2040
COUNTY PROJECT MANAGER:
STUART SPAFFORD
BUILDING NUMBER:
0371A

BUILDING NAME:
**EVERGREEN (EVGR) -
INTENSIVE SERVICES**

DEPARTMENT NAME:
**HEALTH AND HUMAN
SERVICES**

PROJECT NAME:
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(ISB)**

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:
C-205

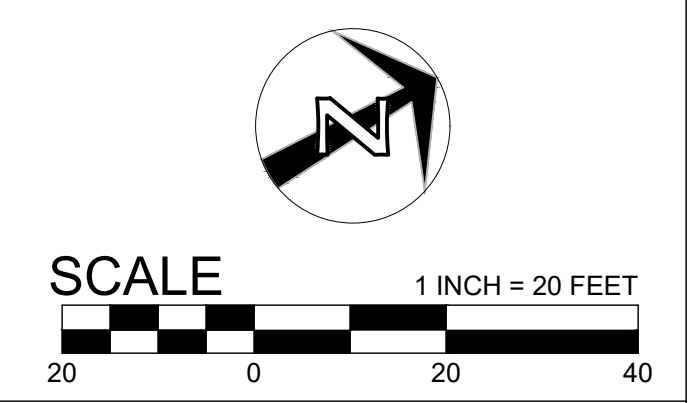
SHEET NAME:
**INTERSECTION SIGHT
DISTANCE PLAN**

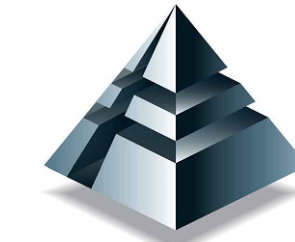
DRAWN BY: BLU SHEET ISSUE DATE:
04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW

A1 INTERSECTION SIGHT DISTANCE PLAN
SCALE: 1" = 20'





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ARCHITECT PROJECT NUMBER:
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HOLST

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SUITE 310
PORTLAND, OR
97232

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COUNTY PROJECT NUMBER:
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COUNTY PROJECT MANAGER:
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BUILDING NUMBER:
0371A

BUILDING NAME:
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DEPARTMENT NAME:
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SERVICES**

PROJECT NAME:
**CATT - INTENSIVE
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(ISB)**

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

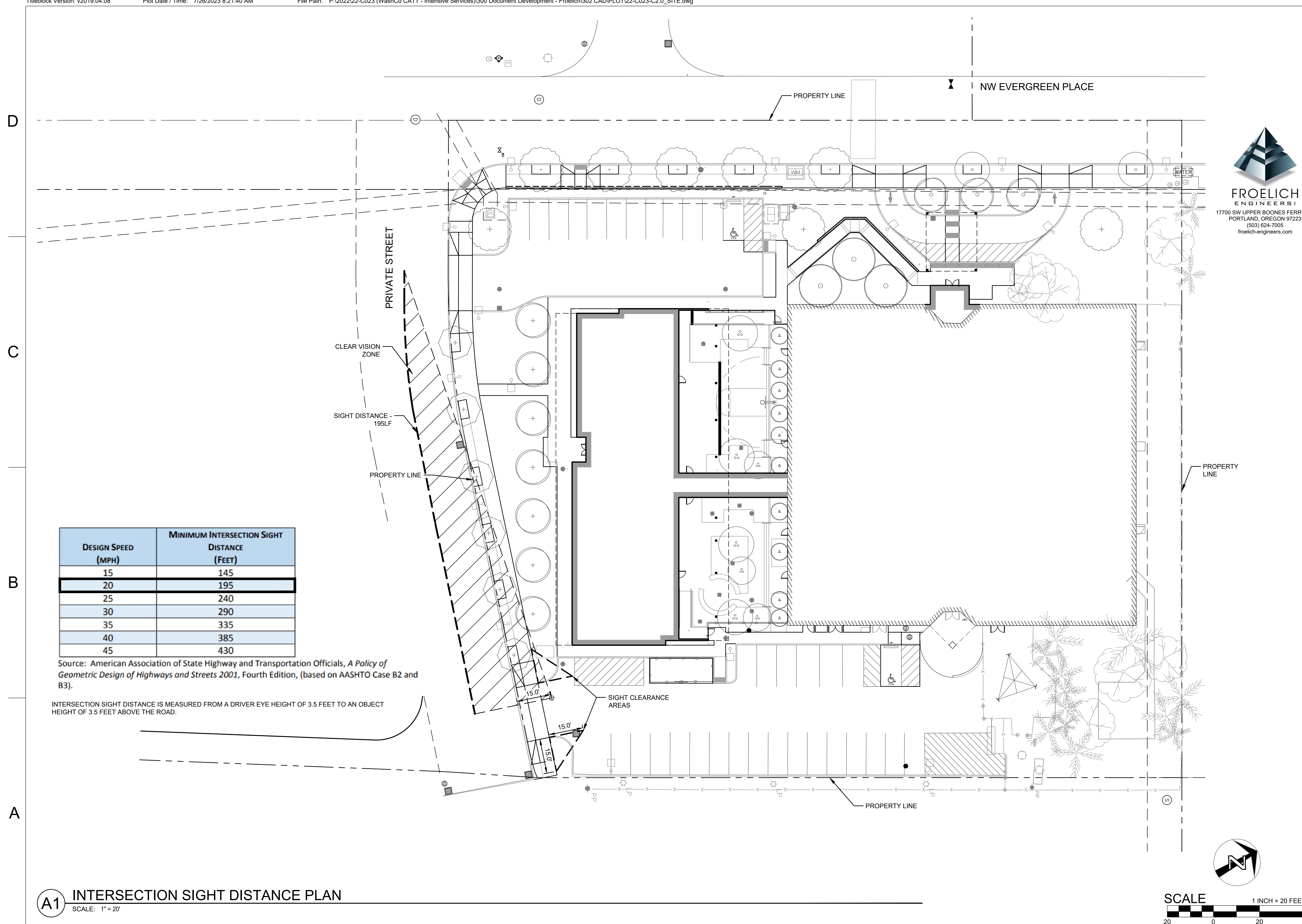
C-206

SHEET NAME:
**INTERSECTION SIGHT
DISTANCE PLAN**

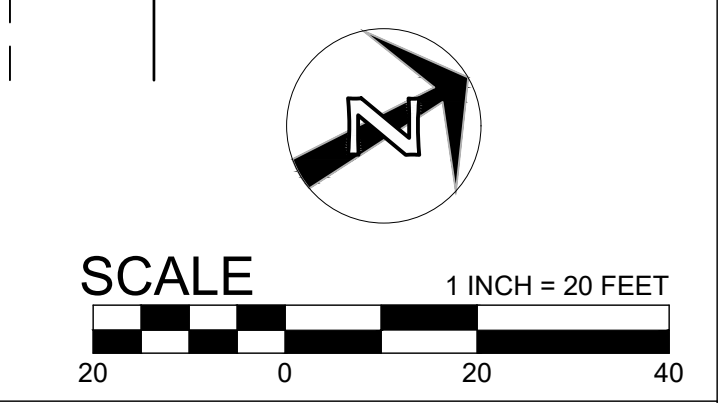
DRAWN BY: BLU SHEET ISSUE DATE:
04/19/23

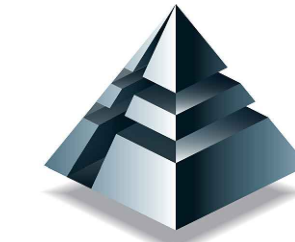
CHECKED BY:
EME

STATUS:
DESIGN REVIEW



A1 INTERSECTION SIGHT DISTANCE PLAN
SCALE: 1" = 20'





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C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-207

SHEET NAME:
**TRUCK TURNING
PLAN**

DRAWN BY: BLU SHEET ISSUE DATE:
04/19/23

CHECKED BY:
EME

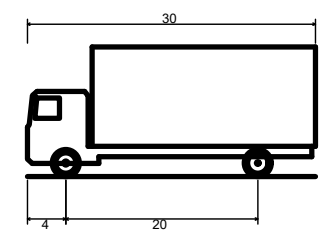
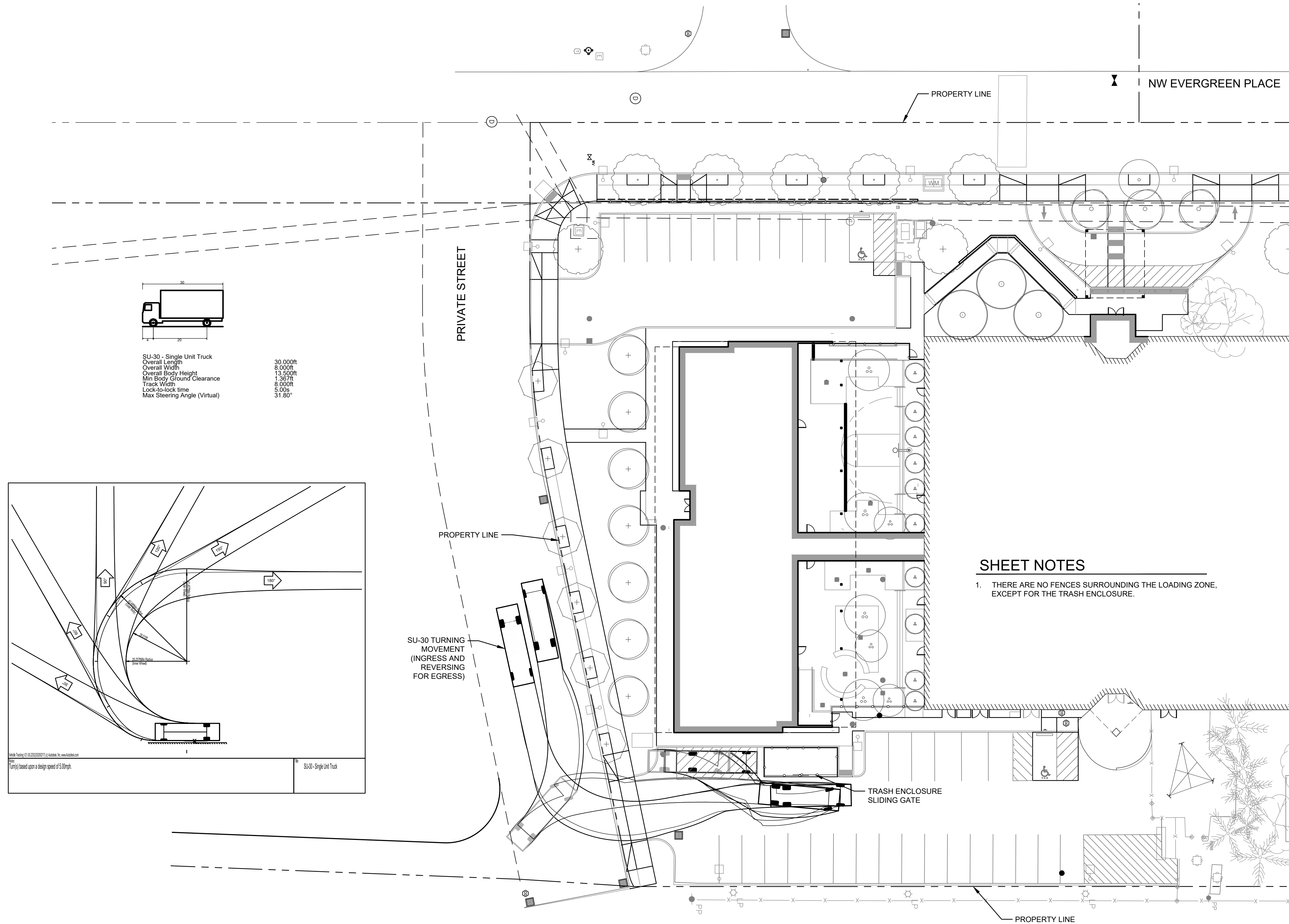
STATUS:
DESIGN REVIEW

D

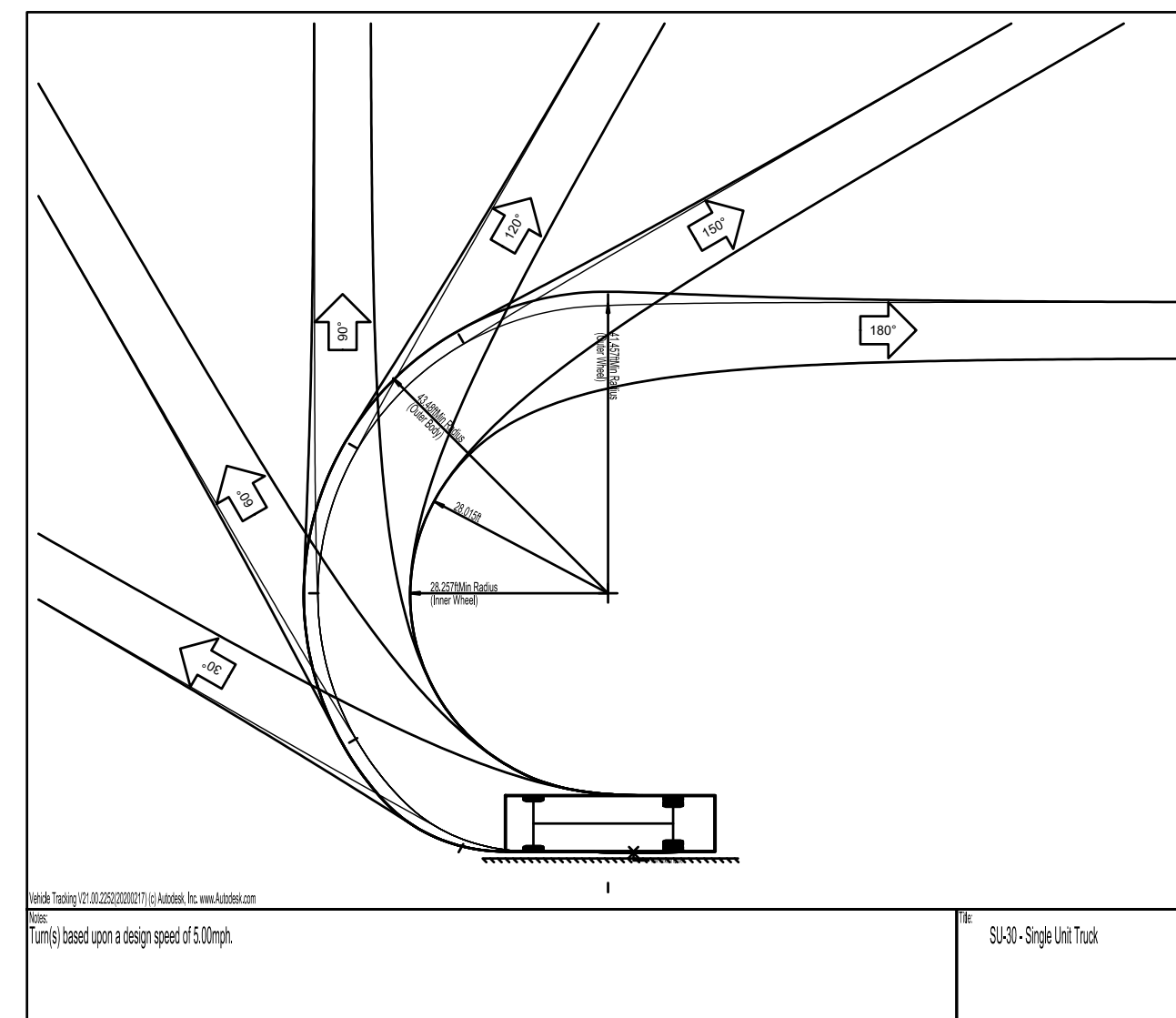
C

B

A



SU-30 - Single Unit Truck
Overall Length 30.000ft
Overall Width 8.000ft
Overall Body Height 13.500ft
Min Body Ground Clearance 1.367ft
Track Width 8.000ft
Lock-to-lock time 5.00s
Max Steering Angle (Virtual) 31.80°



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This drawing is based upon a design speed of 5.00mph.

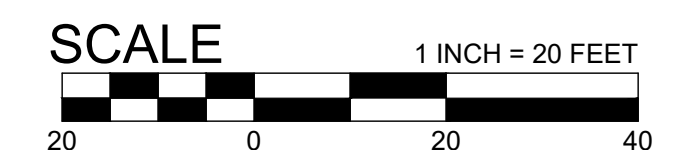
SU30 - Single Unit Truck

SHEET NOTES

1. THERE ARE NO FENCES SURROUNDING THE LOADING ZONE, EXCEPT FOR THE TRASH ENCLOSURE.

A1 TRUCK TURNING PLAN

SCALE: 1" = 20'



1

2

3

4



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ARCHITECT PROJECT NUMBER:
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HOLSTARC.COM

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COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
**EVERGREEN (EVGR) -
INTENSIVE SERVICES**

DEPARTMENT NAME:
**HEALTH AND HUMAN
SERVICES**

PROJECT NAME:
**CATT - INTENSIVE
SERVICES BUILDING
(ISB)**

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
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C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

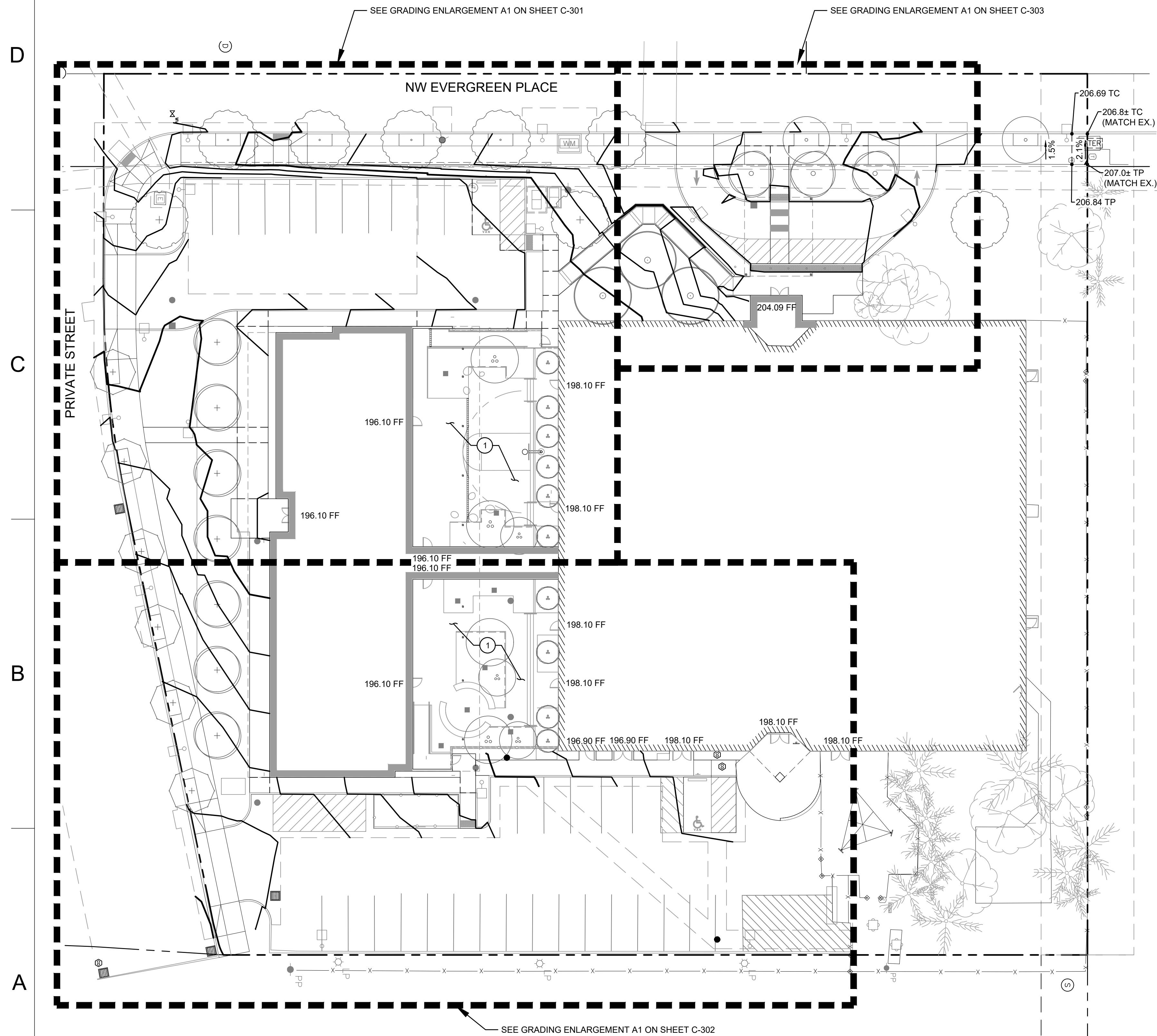
C-300

SHEET NAME:
**GRADING
PLAN**

DRAWN BY: SHEET ISSUE DATE:
BLU 04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW



SHEET NOTES

- SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
- LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
- ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
- TOP OF CONCRETE OUTSIDE BUILDING DOOR IS FLUSH WITH FINISHED FLOOR (UNO).

KEY NOTES

- PLAZA GRADING PER LANDSCAPE PLAN

GRADING LABEL LEGEND

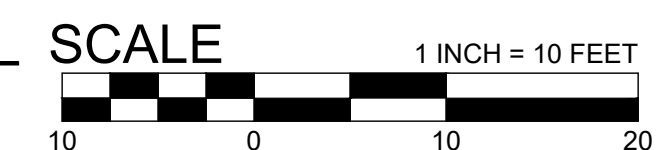
CALLOUT	DESCRIPTION
X.X% →	GRADING SLOPE AND DIRECTION (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
BOW	BACK OF WALK
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STEP
TW	TOP WALL

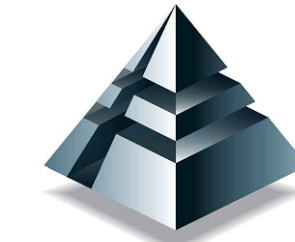
SHEET LEGEND

→	DRAINAGE FLOW DIRECTION
---	GRADE BREAK
- - - - 49	EX. CONTOUR MINOR
- - - - 50	EX. CONTOUR MAJOR
— 49	CONTOUR MINOR (FG)
— 50	CONTOUR MAJOR (FG)

THE 100-YEAR FLOOD IS NOT ON THE PROPOSED SITE AND THE FLOOD ELEVATION IS 187.2 FT IN THE AREAS NEAR THE SITE.

A1 GRADING PLAN
SCALE: 1" = 10'





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HOLST

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D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-301

SHEET NAME:
**GRADING
ENLARGEMENT**

DRAWN BY: SHEET ISSUE DATE:
BLU 04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW

SHEET NOTES

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KEY NOTES

- PLAZA GRADING PER LANDSCAPE PLAN

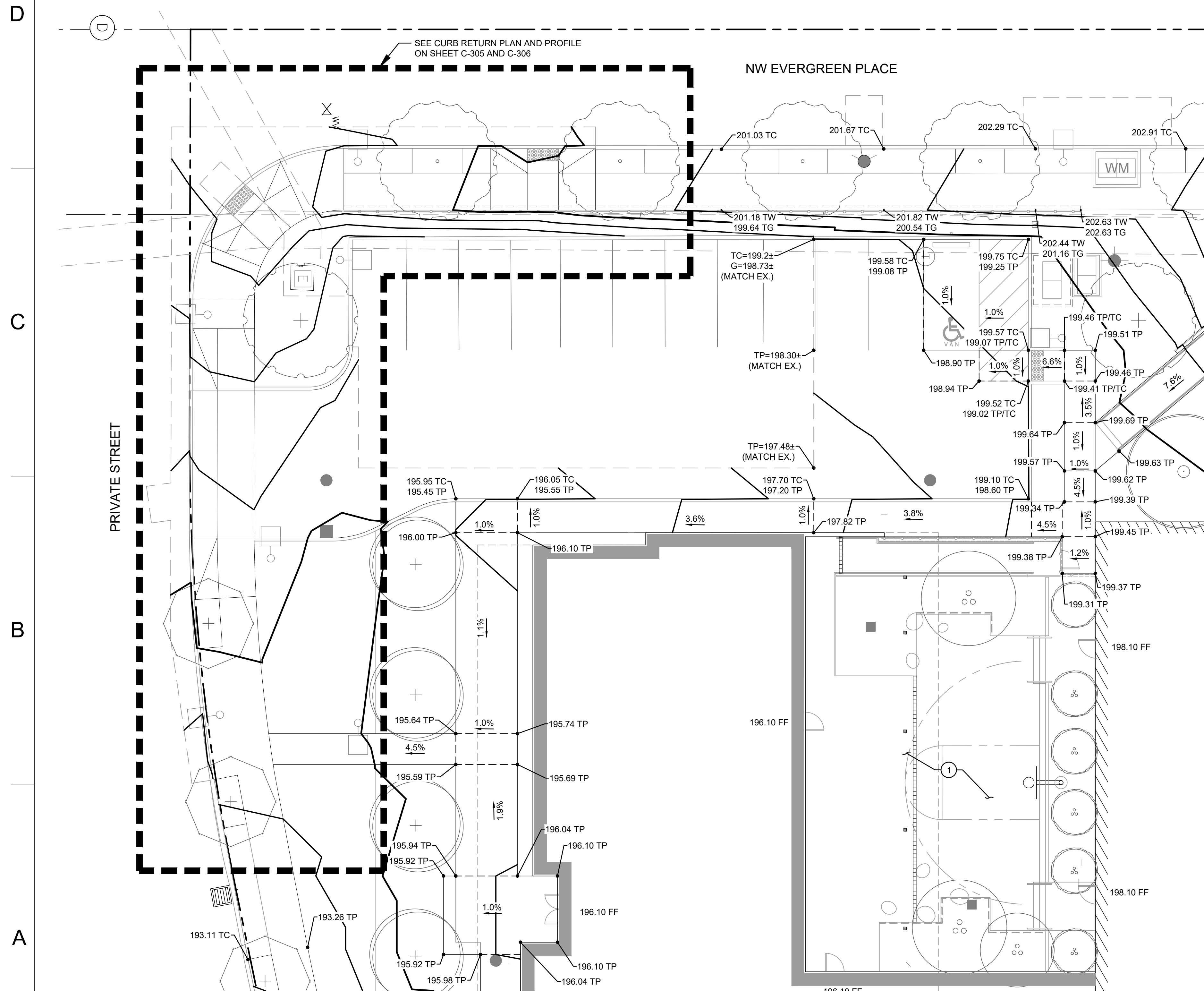
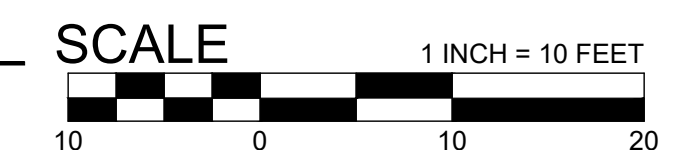
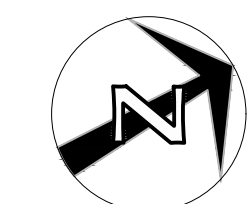
GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
BOW	BACK OF WALK
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STEP
TW	TOP WALL

SHEET LEGEND

	DRAINAGE FLOW DIRECTION
	GRADE BREAK
	EX. CONTOUR MINOR
	EX. CONTOUR MAJOR
	CONTOUR MINOR (FG)
	CONTOUR MAJOR (FG)

THE 100-YEAR FLOOD IS NOT ON THE PROPOSED SITE AND THE FLOOD ELEVATION IS 187.2 FT IN THE AREAS NEAR THE SITE.



A1 GRADING ENLARGEMENT
SCALE: 1" = 10'

SHEET NOTES

- SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
- LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
- ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
- TOP OF CONCRETE OUTSIDE BUILDING DOOR IS FLUSH WITH FINISHED FLOOR (UNO).

KEY NOTES

- PLAZA GRADING PER LANDSCAPE PLAN

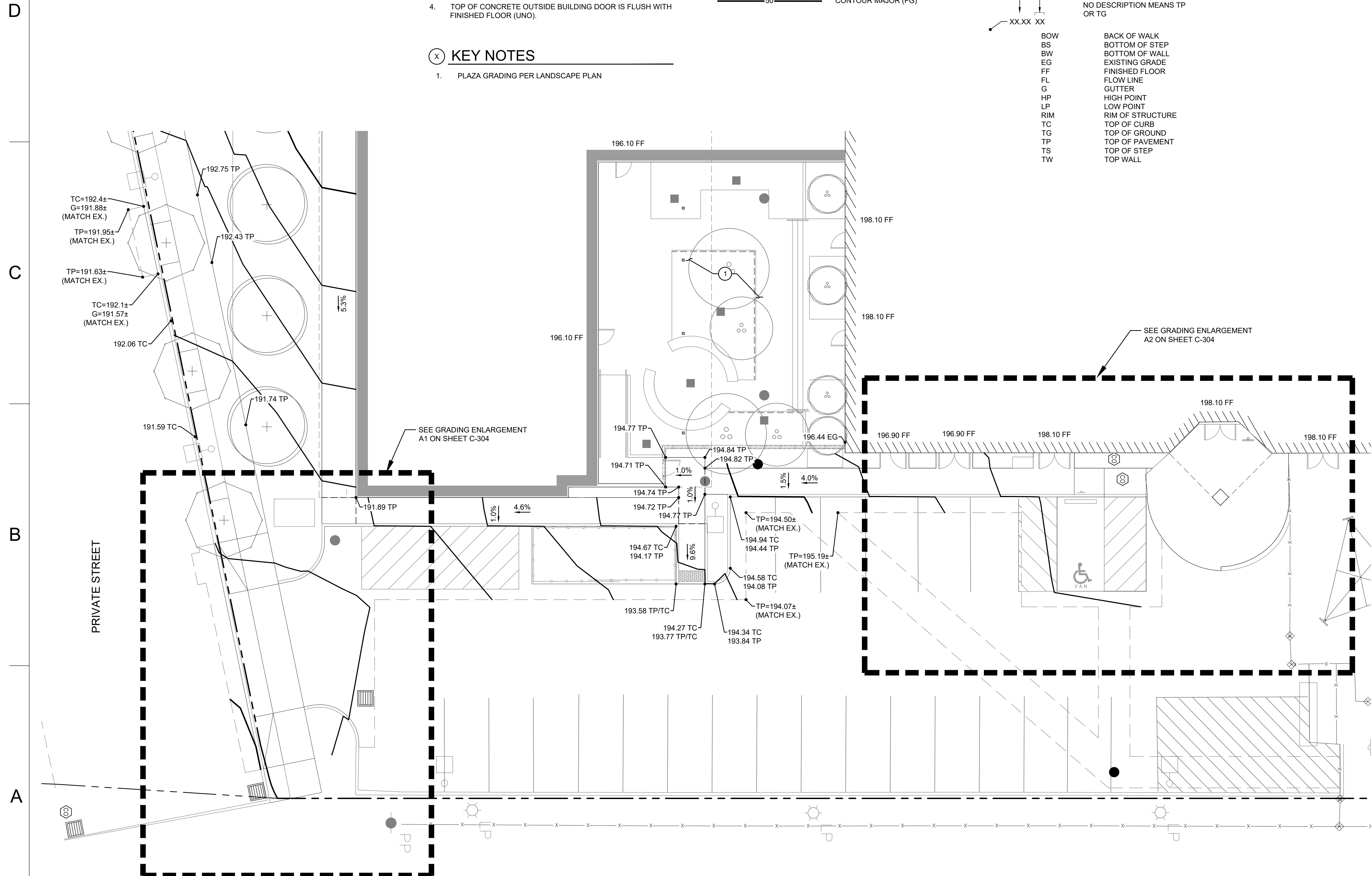
SHEET LEGEND

	DRAINAGE FLOW DIRECTION
	GRADE BREAK
	EX. CONTOUR MINOR
	EX. CONTOUR MAJOR
	CONTOUR MINOR (FG)
	CONTOUR MAJOR (FG)

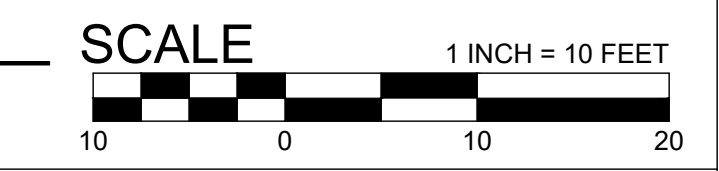
GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
XX.XX XX	SPOT ELEVATION
	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
BOW	BACK OF WALK
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STEP
TW	TOP WALL

THE 100-YEAR FLOOD IS NOT ON THE PROPOSED SITE AND THE FLOOD ELEVATION IS 187.2 FT IN THE AREAS NEAR THE SITE.



A1 GRADING ENLARGEMENT
SCALE: 1" = 10'



Washington County
Support Services
Facilities and Parks Services Division
Capital Improvement Projects

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FROELICH ENGINEERS & ARCHITECTS
17700 SW UPPER BOONES FERRY RD
PORTLAND, OREGON 97223
(503) 624-7005
froelich-engineers.com

ARCHITECT PROJECT NUMBER:
22-010

HOLST

123 NE 3RD AVE.
SUITE 310
PORTLAND, OR
97232

HOLSTARC.COM

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
EVERGREEN (EVGR) - INTENSIVE SERVICES

DEPARTMENT NAME:
HEALTH AND HUMAN SERVICES

PROJECT NAME:
CATT - INTENSIVE SERVICES BUILDING (ISB)

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:
C-302

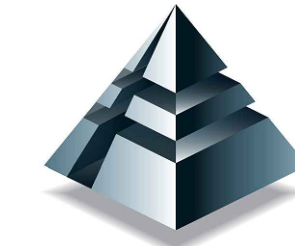
SHEET NAME:
GRADING ENLARGEMENT

DRAWN BY:
BLU

CHECKED BY:
EME

STATUS:
DESIGN REVIEW

SHEET ISSUE DATE:
04/19/23



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ARCHITECT PROJECT NUMBER:
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HOLST

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SUITE 310
PORTLAND, OR
97232

HOLSTAR.CM

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
**EVERGREEN (EVGR) -
INTENSIVE SERVICES**

DEPARTMENT NAME:
**HEALTH AND HUMAN
SERVICES**

PROJECT NAME:
**CATT - INTENSIVE
SERVICES BUILDING
(ISB)**

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-303

SHEET NAME:
**GRADING
ENLARGEMENT**

DRAWN BY: SHEET ISSUE DATE:
BLU 04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW

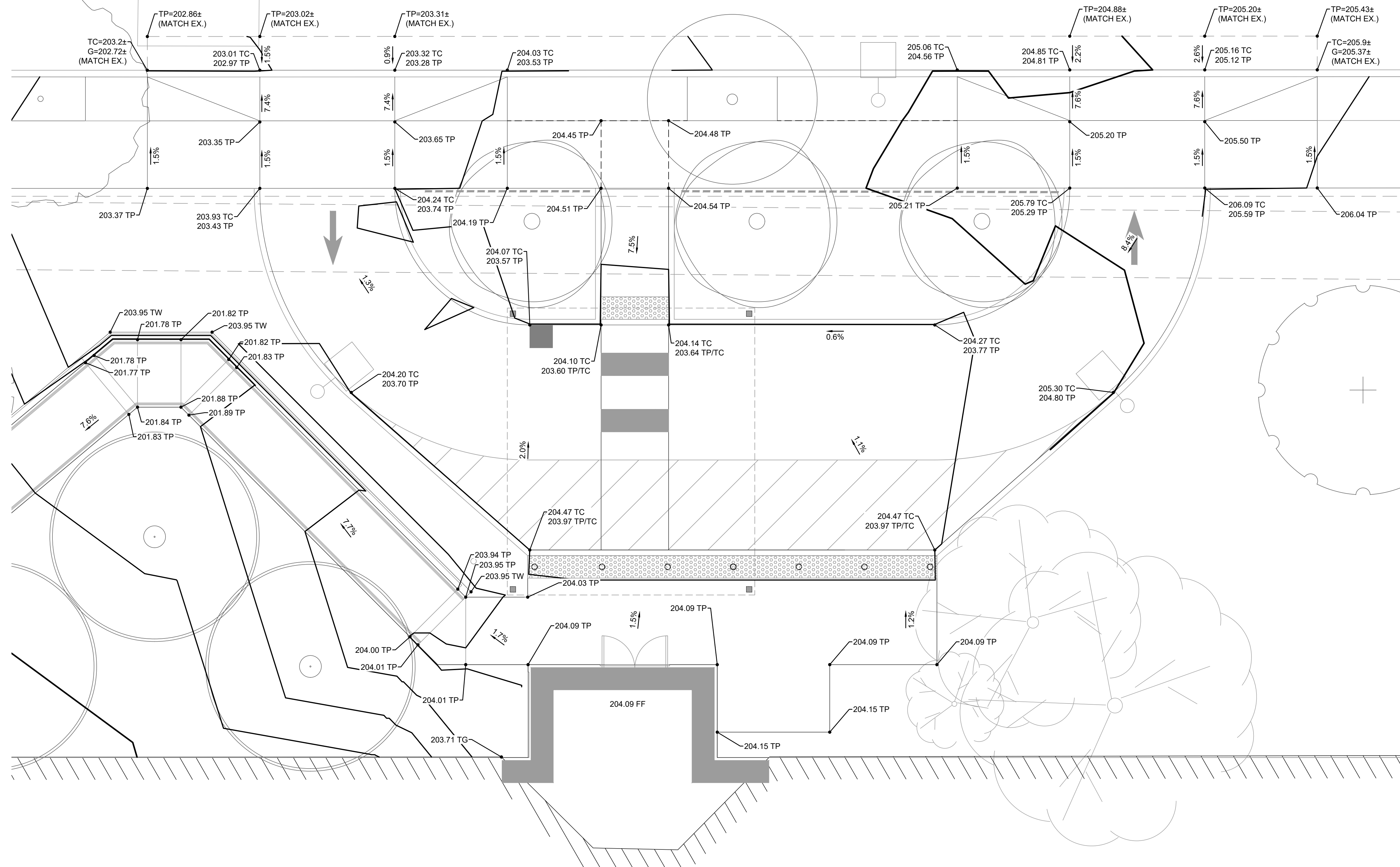
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C

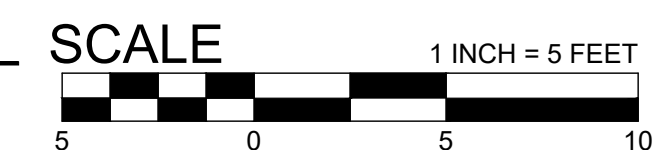
B

A

NW EVERGREEN PLACE



A1 LOADING ZONE ENLARGEMENT
SCALE: 1" = 5'



1

2

3

4



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ARCHITECT PROJECT NUMBER:
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PROJECT NAME:
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SERVICES BUILDING
(ISB)**

PROJECT ADDRESS:
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BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-304

SHEET NAME:
**GRADING
ENLARGEMENTS**

DRAWN BY: SHEET ISSUE DATE:
BLU 04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW

D

C

B

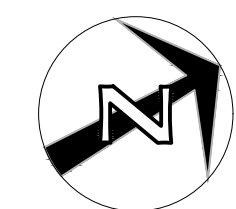
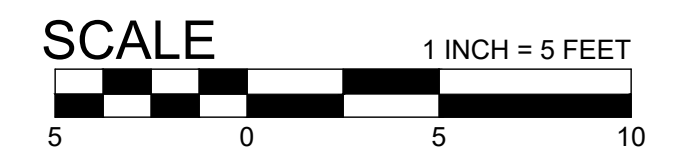
A

PRIVATE STREET

1 P P

A1 DRIVEWAY ENLARGEMENT
SCALE: 1" = 5'

A2 ADA PARKING ENLARGEMENT
SCALE: 1" = 5'

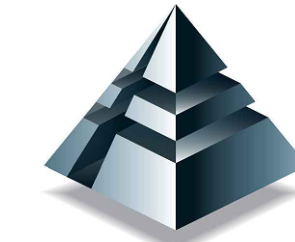


1

2

3

4



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NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
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C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

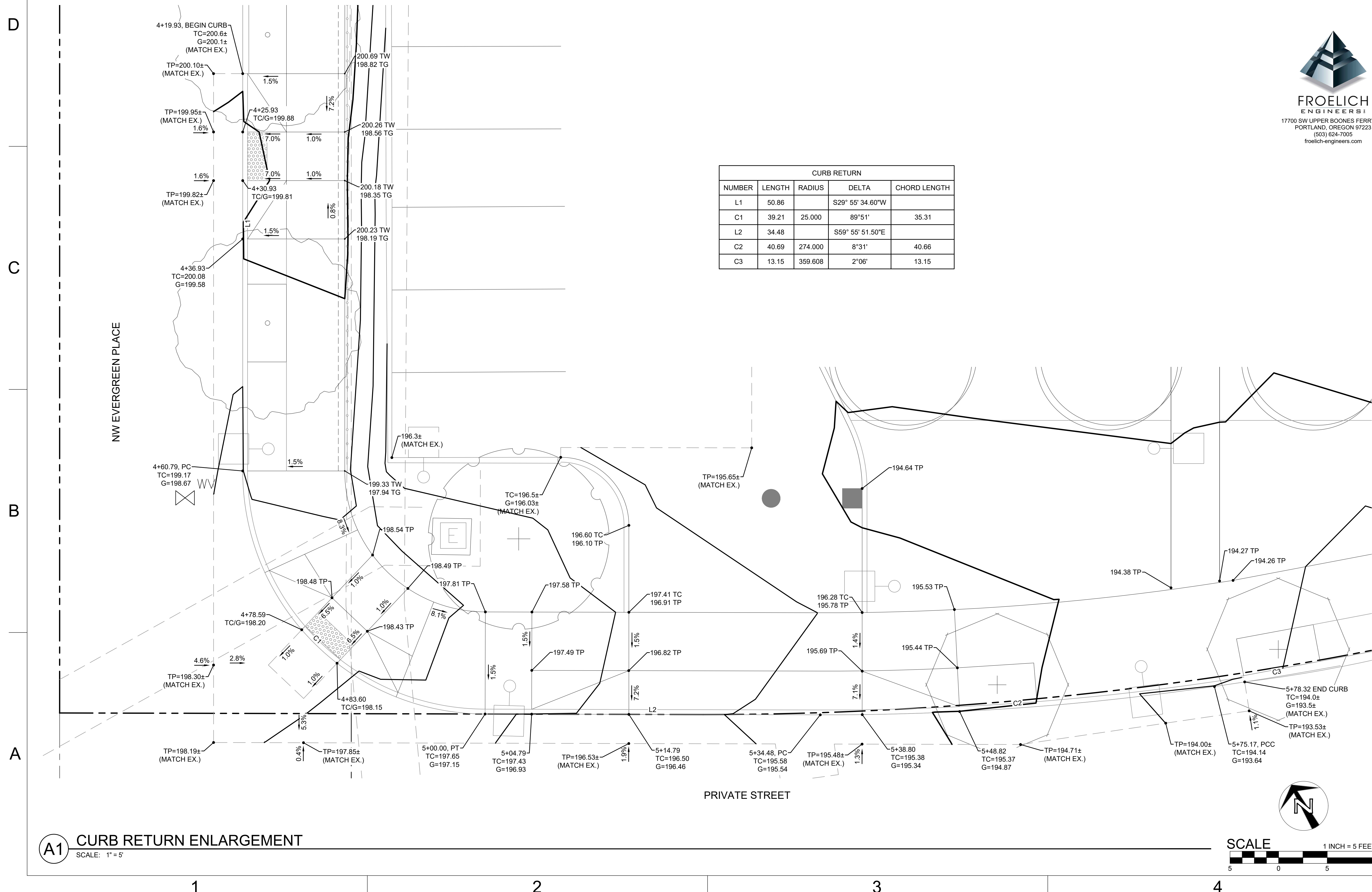
C-305

SHEET NAME:
**CURB
RETURN PLAN**

DRAWN BY: BLU SHEET ISSUE DATE:
04/19/23

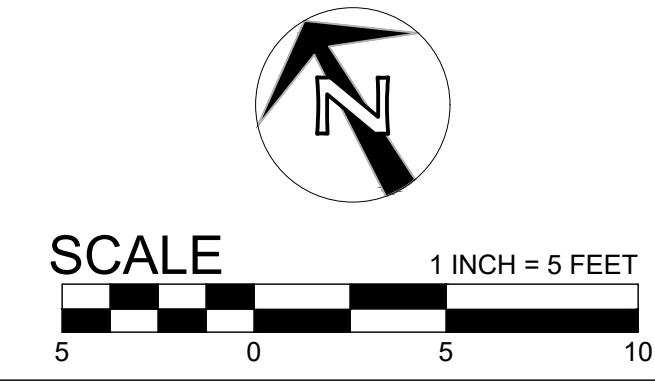
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EME

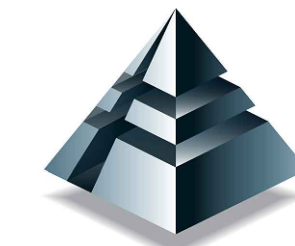
STATUS:
DESIGN REVIEW



CURB RETURN				
NUMBER	LENGTH	RADIUS	DELTA	CHORD LENGTH
L1	50.86		S29° 55' 34.60"W	
C1	39.21	25.000	89° 51'	35.31
L2	34.48		S59° 55' 51.50"E	
C2	40.69	274.000	8° 31'	40.66
C3	13.15	359.608	2° 06'	13.15

A1 CURB RETURN ENLARGEMENT
SCALE: 1" = 5'





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ARCHITECT PROJECT NUMBER:
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HOLST

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COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
**EVERGREEN (EVGR) -
INTENSIVE SERVICES**

DEPARTMENT NAME:
**HEALTH AND HUMAN
SERVICES**

PROJECT NAME:
**CATT - INTENSIVE
SERVICES BUILDING
(ISB)**

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-306

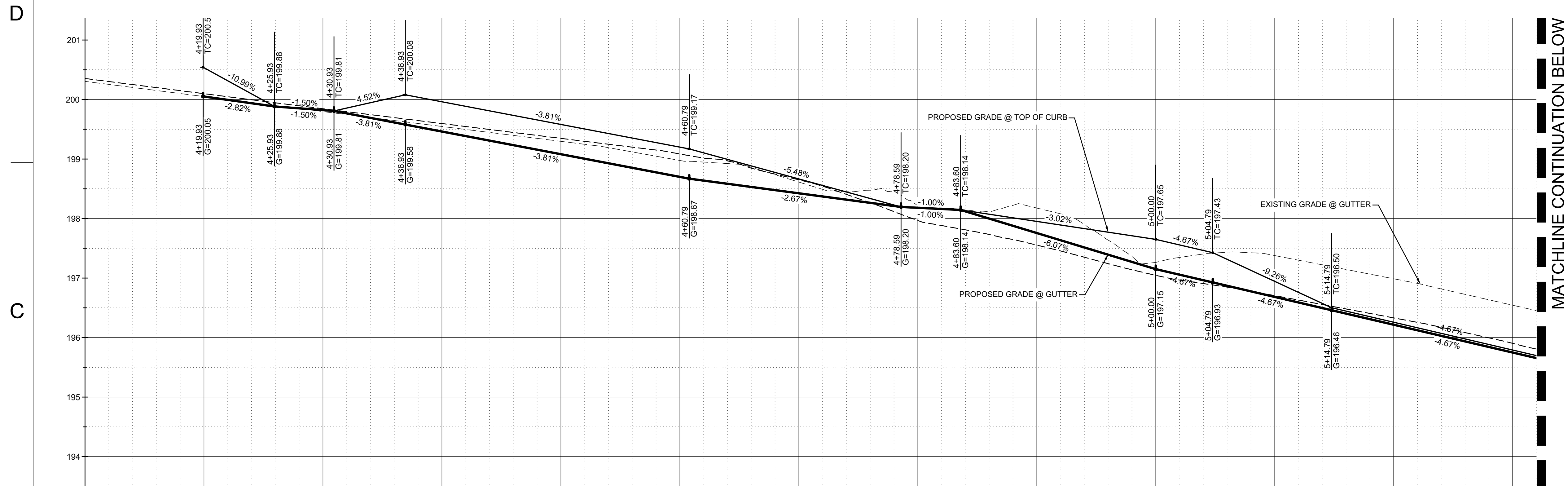
SHEET NAME:

**CURB
RETURN
PROFILE**

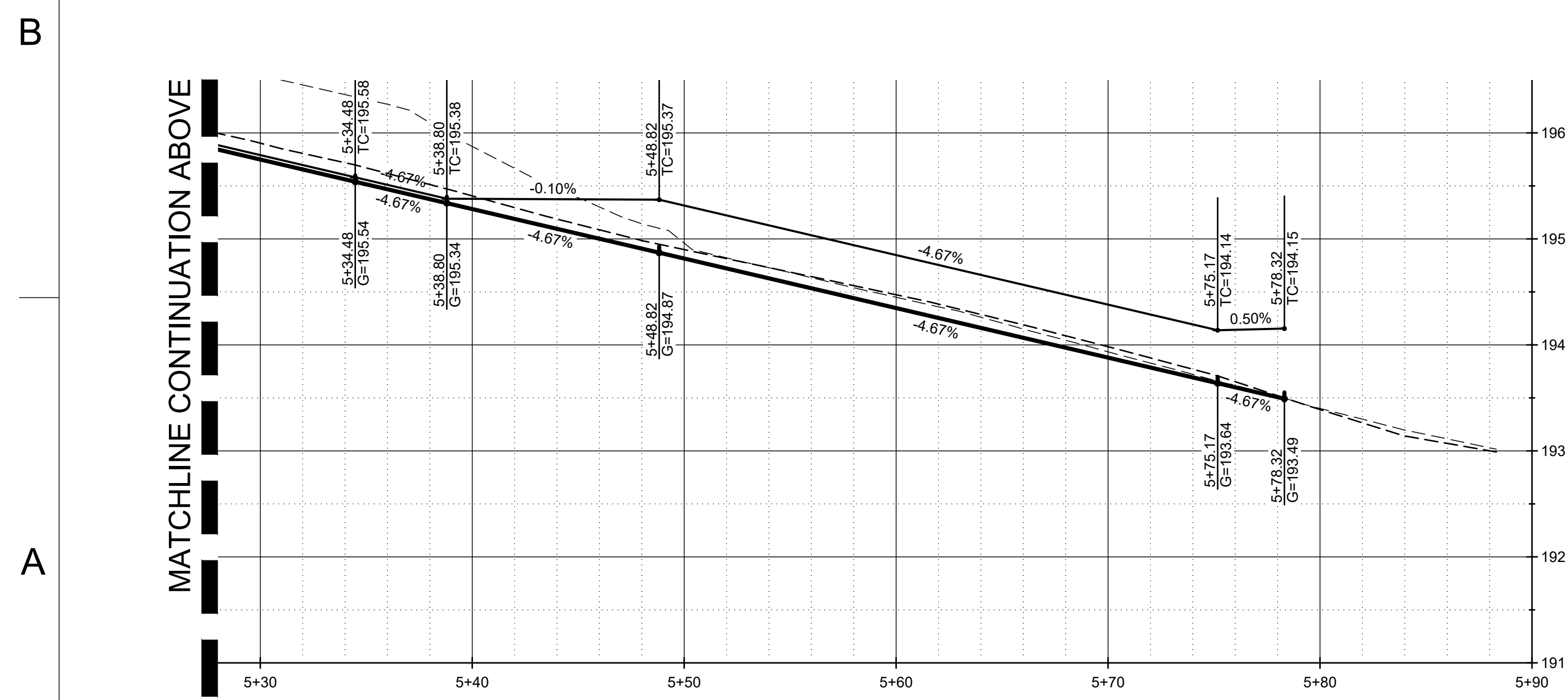
DRAWN BY: BLU SHEET ISSUE DATE: 04/19/23

CHECKED BY: EME

STATUS:
DESIGN REVIEW



B1 CURB RETURN PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



A1 CURB RETURN PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



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ARCHITECT PROJECT NUMBER:
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COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
**EVERGREEN (EVGR) -
INTENSIVE SERVICES**

DEPARTMENT NAME:
**HEALTH AND HUMAN
SERVICES**

PROJECT NAME:
**CATT - INTENSIVE
SERVICES BUILDING
(ISB)**

PROJECT ADDRESS:
**17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006**

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
A	SCHEMATIC DESIGN	11/18/22
B	90% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:

C-400

SHEET NAME:
UTILITY PLAN

DRAWN BY: **BLU** SHEET ISSUE DATE:
04/19/23

CHECKED BY:
EME

STATUS:
DESIGN REVIEW

SHEET NOTES

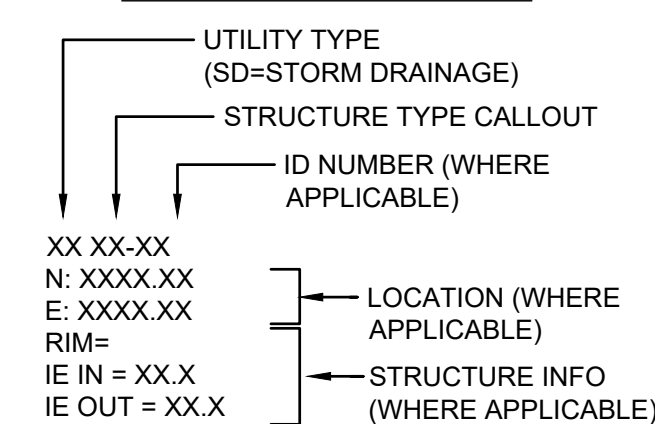
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL A1/C-500
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
- INSTALL THRUST BLOCK ON FIRE AND WATER LINES.
- CONTRACTOR TO VERIFY TIE-IN ELEVATION AND COMMUNICATE ANY DISCREPANCIES TO THE ENGINEER OF RECORD.
- CONNECTIONS TO ANY STRUCTURE MUST USE AN APPROVED WATERTIGHT SEAL. THIS INCLUDES MANHOLES, CATCH BASINS, VAULTS, AREA DRAINS, DITCH INLETS, OR OTHERS. REFERENCE DETAIL A3/C-501. ANY VARIATION MUST BE PRE-APPROVED BY THE CITY OF BEAVERTON ENGINEER. GLUE AND SAND IS NOT ACCEPTABLE.

KEY NOTES

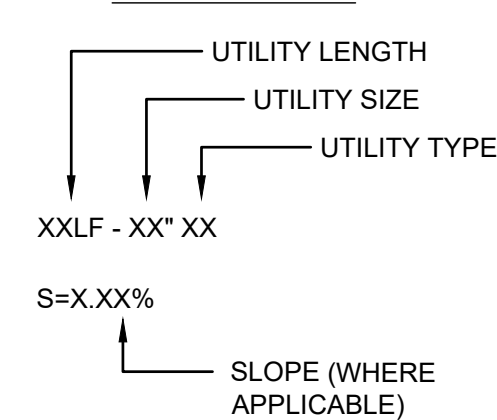
- COORDINATE WATER SERVICE POINT OF CONNECTION FOR PROPOSED 3" WATER METER. COORDINATE WITH CITY OF BEAVERTON.
- REPLACE EXISTING 6" SANITARY SEWER LATERAL WITH PROPOSED 6" SEWER LATERAL USING TRENCHLESS TECHNOLOGY. CONNECT TO EXISTING BUILDING STUB AND EXISTING SANITARY SEWER MANHOLE.
- FIELD VERIFY LOCATION, SIZE, AND IE OF EXISTING STORM MAIN. CONNECT PROPOSED LATERAL TO MAIN WITH PVC GASKETED SADDLE PER CITY STD DETAIL C2/C-501.
- COORDINATE FIRE PROTECTION SERVICE POINT OF CONNECTION. COORDINATE WITH CITY OF BEAVERTON.
- COORDINATE FIRE HYDRANT POINT OF CONNECTION. COORDINATE WITH CITY OF BEAVERTON.

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL

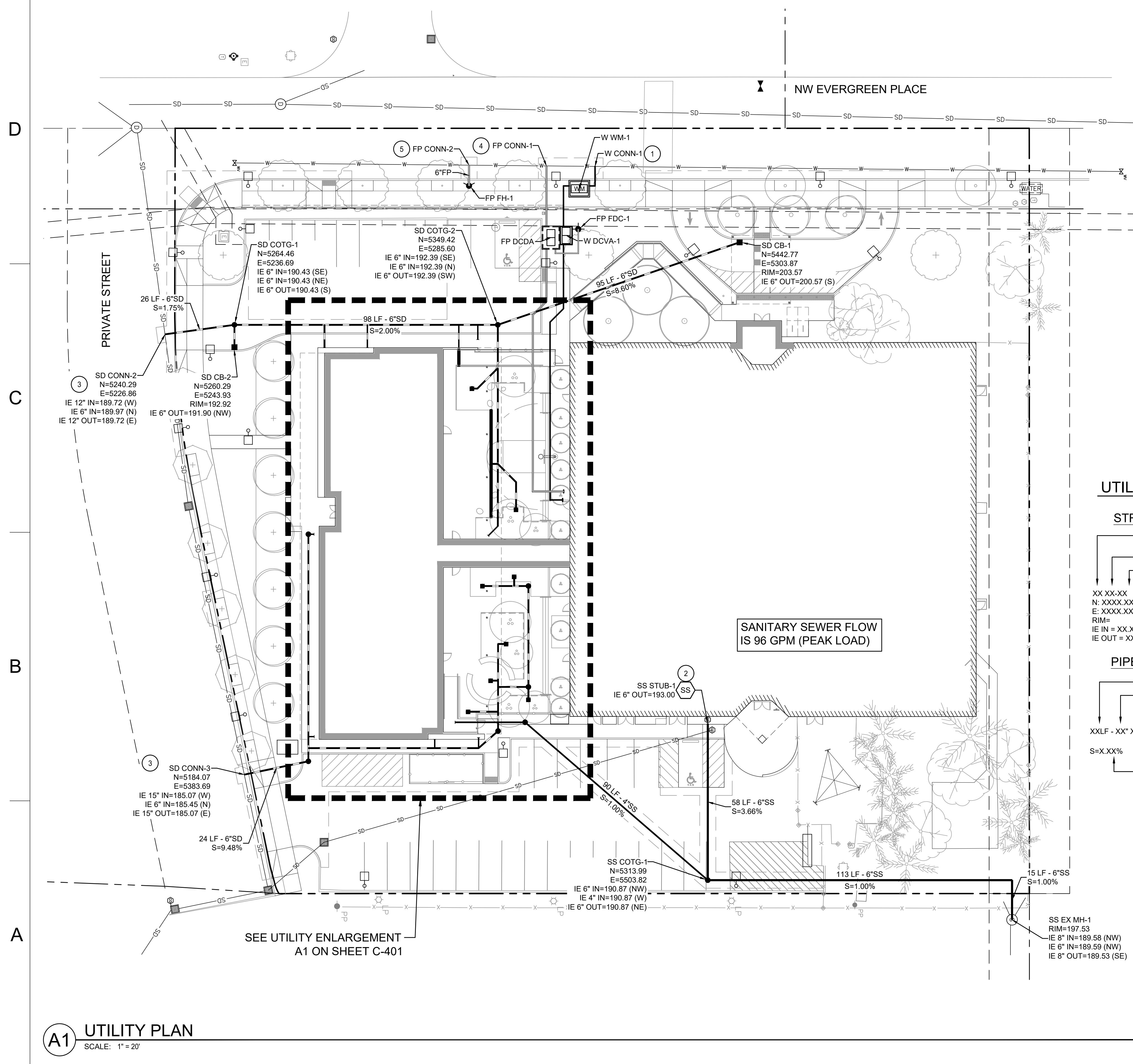
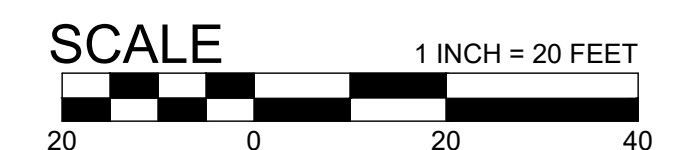


STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	D2 (C504)
BEND	BEND, USE FITTING IF APPL.	
BWV	BACKWATER VALVE	A1 (C504)
CB	TRAPPED CATCH BASIN	B2 (C504)
CONN	CONNECTION	
COTG	CLEANOUT TO GRADE	C1 (C504)
DCDA	DOUBLE CHECK DETECTOR	A3 (C502) C2 (C502)
DCVA	DOUBLE CHECK VALVE	A1 (C501) C3 (C502)
FD	FOUNDATION DRAINAGE POINT	
FDC	FIRE DEPARTMENT CONNECTION	A2 (C504)
FH	FIRE HYDRANT	A2 (C501)
GV	GATE VALVE	
MH	MANHOLE	
TEE	TEE CONNECTION	
TD	TRENCH DRAIN	B1 (C504)
WM	WATER METER	C1 (C501)
WYE	WYE CONNECTION	

SHEET LEGEND

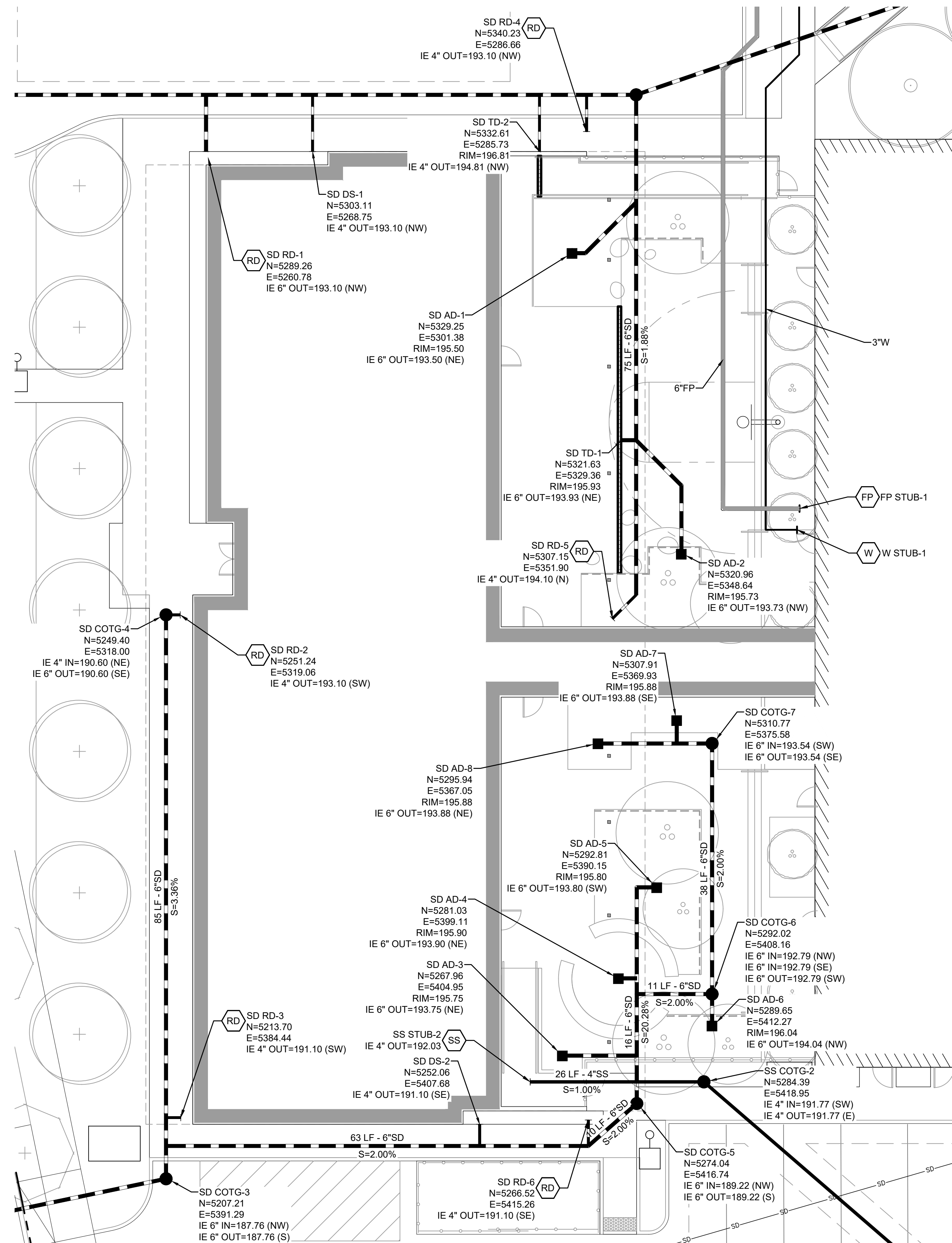
- RD** CONNECT TO STORM DRAIN/ROOF DRAIN. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AND IE AS NOTED.
- FP** CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.
- S** CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- DCV** DOUBLE CHECK VAULT (A1 C3 C501 C502)
- DCD** DOUBLE CHECK DETECTOR VAULT (A3 C2 C502)
- W** CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.



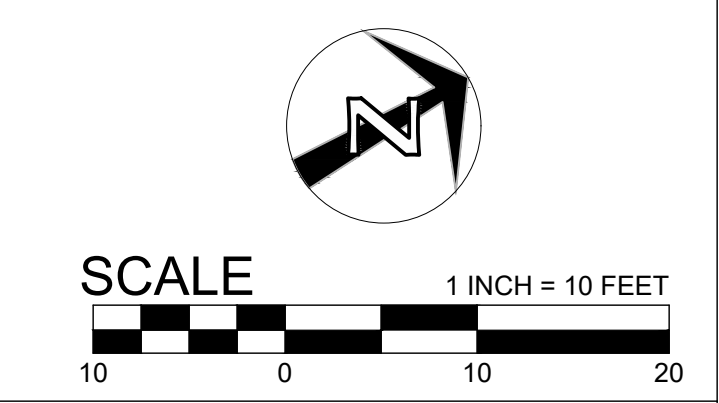
A1 UTILITY PLAN
SCALE: 1" = 20'

1 2 3 4

D
C
B
A



A1 UTILITY ENLARGEMENT
SCALE: 1" = 5'



Washington County
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Capital Improvement Projects

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ARCHITECT PROJECT NUMBER:
22-010

HOLST

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PORTLAND, OR
97232

HOLSTARC.COM

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
EVERGREEN (EVGR) - INTENSIVE SERVICES

DEPARTMENT NAME:
HEALTH AND HUMAN SERVICES

PROJECT NAME:
CATT - INTENSIVE SERVICES BUILDING (ISB)

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

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A	SCHEMATIC DESIGN	11/18/22
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	DESIGN REVIEW	06/29/23
E	DESIGN REVIEW R1	09/01/23

SHEET NUMBER:
C-401

SHEET NAME:
UTILITY ENLARGEMENT

DRAWN BY:
BLU

CHECKED BY:
EME

SHEET ISSUE DATE:
04/19/23

STATUS:
DESIGN REVIEW

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ARCHITECT PROJECT NUMBER:
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SUITE 310
PORTLAND, OR
97232

HOLSTARC.COM

SAZAN GROUP

111 SW Fifth Ave, Ste 3210
Portland, Oregon 97204

Tel 503.416.2400

SAZAN# 727-22003

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

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DEPARTMENT NAME:
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PROJECT NAME:
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(ISB)**

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REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
B	50% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	25% CONSTRUCTION DOCUMENTS	10/02/23

SHEET NUMBER:
E-002

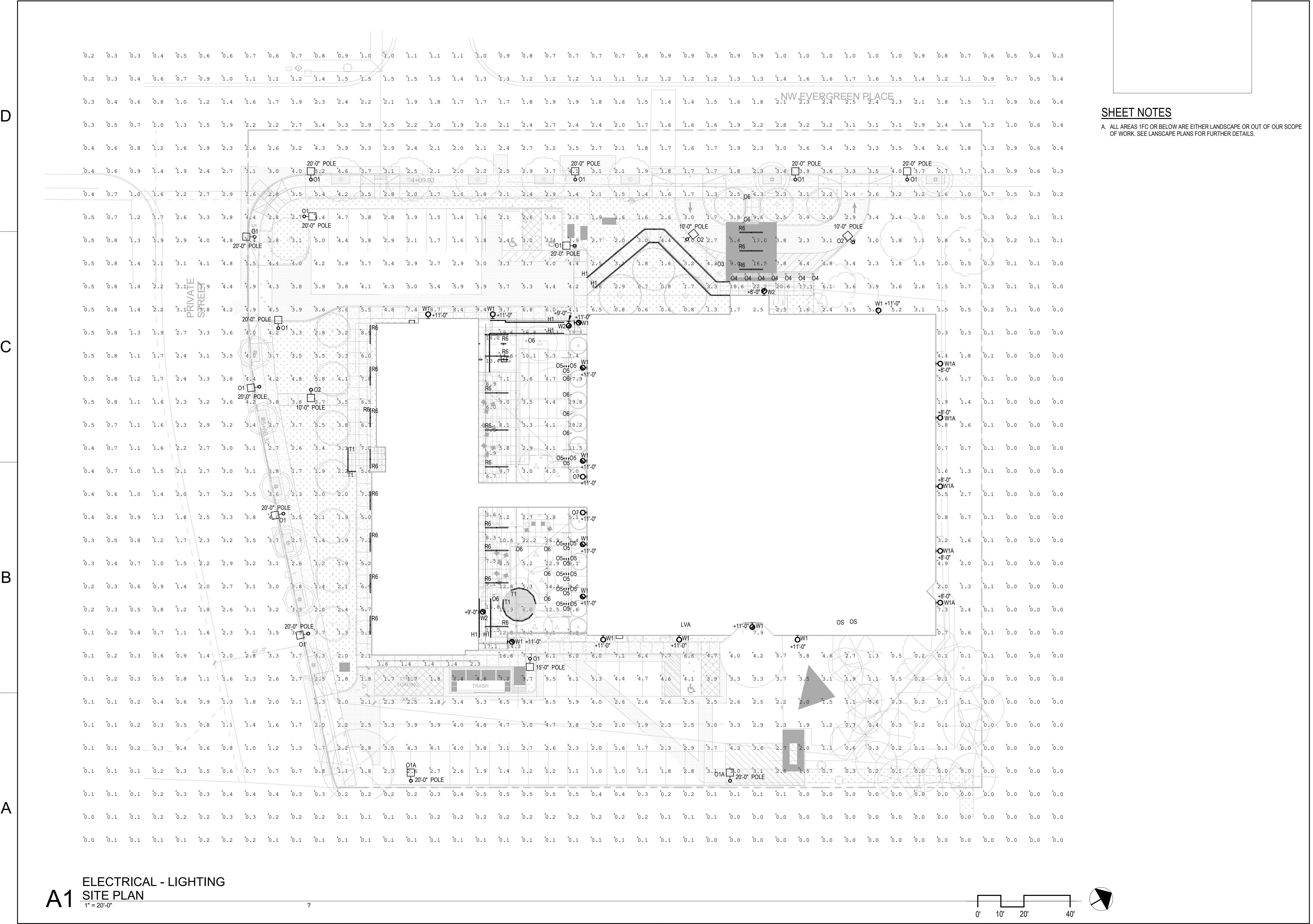
SHEET NAME:
**ELECTRICAL -
LIGHTING SITE PLAN**

DRAWN BY: LR SHEET ISSUE DATE: 09/01/23

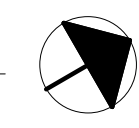
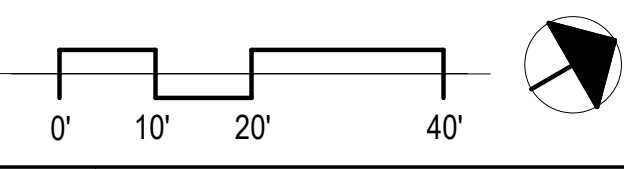
CHECKED BY: CL

STATUS:
25% CD

SHEET NOTES
A. ALL AREAS 1FC OR BELOW ARE EITHER LANDSCAPE OR OUT OF OUR SCOPE OF WORK. SEE LANDSCAPE PLANS FOR FURTHER DETAILS.



A1 ELECTRICAL - LIGHTING
SITE PLAN
1" = 20'-0"



D
C
B
A

LUMINAIRE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MOUNTING	CCT / CRI	INPUT WATTS (W)	LUMEN OUTPUT	BALLAST / TRANSFORMER / DRIVER	VOLTAGE	LENS / REFLECTOR / BEAM	HOUSING	TRIM / FLANGE / BAFFLE / FINISH	MANUFACTURER / CATALOG #	REMARKS / ACCESSORIES/ OPTIONS
EXTERIOR LIGHTING												
H1	ASYMMETRIC 75 DEGREE DISTRIBUTION INTEGRATED IN HANDRAIL	HANDRAIL	3500K	TBD	TBD	0-10V DIMMING DRIVER	---	FROSTED LENS	ALUMINUM	BY ARCHITECT	COLE LIGHTING - LIGHTRAIL LR7 SERIES	
R6	10'-0" LINEAR LED LUMINAIRE	RECESSED	3500K 80CRI	5 WATTS PER FOOT	500 LUMENS PER FOOT	0-10V DIMMING DRIVER	UNV	FROSTED FLUSH LENS	ALUMINUM	BY ARCHITECT	NULITE - RXTF SERIES	PROVIDE WET LISTED FIXTURE
T1	FLEXIBLE TAPE LED LUMINAIRE	RECESSED IN GRADE	3500K 80CRI	3 WATTS PER FOOT	162 LUMENS PER FOOT	0-10V DIMMING DRIVER	24V	FROSTED FLUSH LENS	ALUMINUM	BY ARCHITECT	KELVIX - SIGNWAVE 3 SERIES	PROVIDE ALUMINUM SERRATED FLEX CHANNEL
O1	TYPE IV DISTRIBUTION POLE LED LUMINAIRE	20' POLE	3500K 80CRI	102	13403	0-10V DIMMING DRIVER	UNV	SILICONE LENS	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING - D SERIES SIZE 1	PROVIDE INTEGRAL PHOTOCELL AND MOTION SENSOR
O1A	TYPE IV DISTRIBUTION WITH BACKLIGHT CONTROL POLE LED LUMINAIRE	20' POLE	3500K 80CRI	138	12709	0-10V DIMMING DRIVER	UNV	SILICONE LENS	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING - D SERIES SIZE 1	PROVIDE INTEGRAL PHOTOCELL AND MOTION SENSOR
O2	ASYMMETRIC DISTRIBUTION POST TOP LED LUMINAIRE	12' POLE	3500K 80CRI	54	7000	0-10V DIMMING DRIVER	UNV	ACRYLIC LENS	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING - RADEAN POST TOP SERIES	PROVIDE INTEGRAL PHOTOCELL AND MOTION SENSOR
O3	DUAL LIGHT FLAG POLE LED LUMINAIRE	FLAG	3000K	4	572	NON-DIMMING	120V	GLASS	ALUMINUM	BY ARCHITECT	AMERICAN BEACON FLAG POLE LIGHTING - INTERNAL HALYARD BEACON PLUS DUAL LIGHT	COORDINATE WITH FLAG POLE DIMMENSIONS PRIOR TO ORDERING
O4	IMPACT RESISTANT BOLLARD LED LUMINAIRE	34"	3500K 80CRI	29	2500	0-10V DIMMING DRIVER	UNV	GLASS DIFFUSER	ALUMINUM	BY ARCHITECT	BEGA - 84 623 BOLLARD AND 99 865 LIGHT FIXTURE	
O5	NOMINAL 12"x2"x5" STEP LIGHT WITH SHIELDING LED LUMINAIRE	RECESSED IN STEPS	3500K 80CRI	3	64	0-10V DIMMING DRIVER	UNV	WHIRE SAFETY GLASS	ALUMINUM	BY ARCHITECT	BEGA - 33019 STEPLIGHT SERIES	
O6	SAME AS TYTPE O4 EXCEPT NOT IMPACT RESISTANT.	34"	3500K 80CRI	29	2500	0-10V DIMMING DRIVER	UNV	GLASS DIFFUSER	ALUMINUM	BY ARCHITECT	BEGA - 84 623 BOLLARD AND 99 865 LIGHT FIXTURE	
O7	COMPACT WIDE BEAM DISTRIBUTION FLOOD LIGHT	WALL	3500K 80CRI	13	1330	0-10V DIMMING DRIVER	UNV	41 DEGREE BEAM DISTRIBUTION	ALUMINUM	BY ARCHITECT	BEGA - 77 682 SERIES	
W1	TYPE III DISTRIBUTION WALL PACK LED LUMINAIRE	WALL	3500K 80CRI	47	4200	0-10V DIMMING DRIVER	UNV	ACRYLIC LENS	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING - WDGE 2 SERIES	PROVIDE INTEGRAL PHOTOCELL
W1A	VISUAL COMFORT WIDE DISTRIBUTION WALL PACK LED LUMINAIRE	WALL	3500K 80CRI	10	1196	0-10V DIMMING DRIVER	UNV	ACRYLIC LENS	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING - WDGE 1 SERIES	PROVIDE INTEGRAL PHOTOCELL
W2	ADA COMPLIANT WALL PACK LED LUMINAIRE	WALL	3500K 80CRI	17	1893	0-10V DIMMING DRIVER	UNV	ACRYLIC LENS	ALUMINUM	BY ARCHITECT	BEGA - 33242 WALL PACK SERIES	PROVIDE INTEGRAL PHOTOCELL

1

2

3

4

Washington County
Support Services
Facilities and Parks Services Division
Capital Improvement Projects

160 N 1st Ave
Hillsboro, OR 97124
503-846-8751
FacilitiesExternal@co.washington.or.us
www.co.washington.or.us



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Expires: 12/31/2024

ARCHITECT PROJECT NUMBER:
22-010

HOLST

123 NE 3RD AVE.
SUITE 310
PORTLAND, OR
97232

HOLSTARC.COM

SAZAN GROUP

111 SW Fifth Ave, Ste 3210
Portland, Oregon 97204

Tel 503.416.2400

SAZAN# 727-22003

COUNTY PROJECT NUMBER:
2040

COUNTY PROJECT MANAGER:
STUART SPAFFORD

BUILDING NUMBER:
0371A

BUILDING NAME:
EVERGREEN (EVGR) - INTENSIVE SERVICES

DEPARTMENT NAME:
HEALTH AND HUMAN SERVICES

PROJECT NAME:
CATT - INTENSIVE SERVICES BUILDING (ISB)

PROJECT ADDRESS:
17911 NW EVERGREEN PLACE
BEAVERTON, OR 97006

REVISION / ISSUE SCHEDULE

NO.	DESCRIPTION	DATE
B	90% DESIGN DEVELOPMENT	02/24/23
C	100% DESIGN DEVELOPMENT	04/21/23
D	25% CONSTRUCTION DOCUMENTS	10/02/23

SHEET NUMBER:
E-203

SHEET NAME:
ELECTRICAL LIGHTING SCHEDULE

DRAWN BY: LR SHEET ISSUE DATE: 09/01/23

CHECKED BY: CL

STATUS:
25% CD

JOB NAME _____

TYPE **H1**

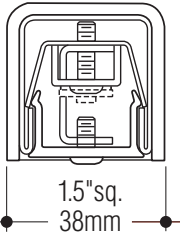
CATALOG NUMBER _____

Lightrail - LR6

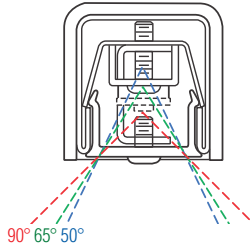
Formed Stainless Steel

1.50"

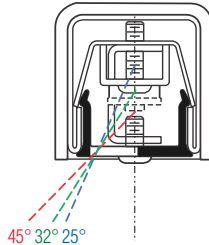
Dimensions



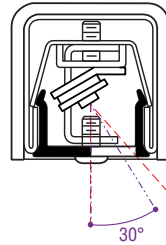
Symmetric



Asymmetric
(-ASYM)



Asymmetric
(-ASYM/30°)



Construction

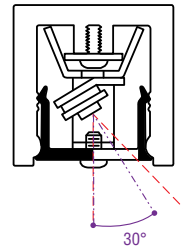
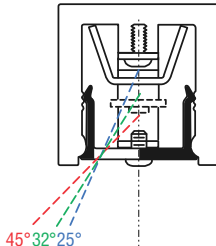
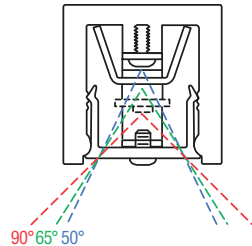
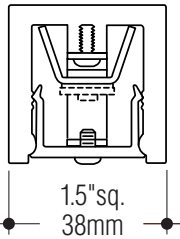
- Available in formed stainless steel with welded and blended joints for a seamless appearance or extruded aluminum
- The flat lens design minimizes visible brightness at sides and is available in clear or frosted
- Each rail is tailored to fit existing stairs, ramps, and walkways
- Aluminum rails supplied with a powder coat or anodized finish
- Stainless steel rails supplied with a #4 satin finish, passivated.

Electrical

- LED modules are 24 VDC constant voltage at 2.5 watts and 205 source lumens per foot. Available in 3000°K or 4000°K color temperatures. Beam spreads in 50°, 65°, and 90° patterns
- LEDs are configured to allow uninterrupted illumination
- Electrical feed locations are pre-determined at time of submittal
- Universal voltage LED drivers may be integral in the posts or railing (120V only), or may be remote if required
- Dimmable drivers are available upon request

Extruded Aluminum

1.50"



How to Specify

Every Lightrail is custom designed and fabricated to your specific project conditions. Drawings will be submitted on each project requesting specific dimensions to assure proper fit. Plans and elevation drawings are required for pricing and submittal drawing production.

1. Submit catalog number, options, and voltage; (example: LR6P-LED-SS/1.9-INT-277).
2. Add special features and requirements necessary to complete specification.

Catalog Number

Stainless Steel (-SS)

Aluminum (-AL)

Post mounted, integral driver
Post mounted, remote driver
Wall mounted, integral driver
Wall mounted, remote driver

LR6P-LED-SS-INT
 LR6P-LED-SS-REM
 LR6W-LED-SS-INT
 LR6W-LED-SS-REM

LR6P-LED-AL-INT
 LR6P-LED-AL-REM
 LR6W-LED-AL-INT
 LR6W-LED-AL-REM

Options

Ends: Add suffix. Miter -ME. Loop -LE.

Hook -HE.

Baseplate: Nominal 4" diameter or 4" square baseplate + four mounting holes. Add suffix -BP.

Escutcheon: Add suffix -ES.

Frosted lens: (clear diffuser std.).

Add suffix -FL.

Emergency battery: Provides up to 90 min. operation (remote only). Add suffix -EM.

Asymmetric distribution: 50% opaque lens (not available on all models). Add suffix -ASYM.

4100°K Color temperature: (3000°K standard).

Add suffix -4K.

Beam spread: (90° standard).

65°, Add suffix -65.

50°, Add suffix -50.

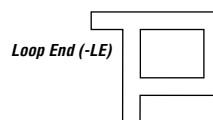
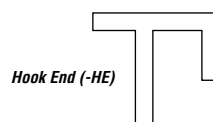
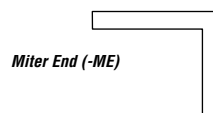
Dimming: Universal voltage 0-10V driver.

Add suffix -DIM.

Color: FWC Turtle compliant, 590 nm, Amber.

Add suffix -AMB.

LR6 End Treatments



COLE
Lighting

C.W. Cole & Company, Inc.
2560 Rosemead Boulevard
South El Monte, CA 91733-1593

Tel. (626) 443-2473
Fax (626) 443-9253
info@colelighting.com
www.colelighting.com

ULI-21172

Light Linear PT 4 Single Head Streetlight

01

microVOS
TECHNOLOGY

LIGMAN
LIGHTING USA



106w LED
12518 Lumens

Weight 69.4 lbs

IP65
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

EPA - 1.20

POLE INCLUDED

Construction

Aluminum

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive - Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B2 - U0 - G2

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process

After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits

- Resistance to salt-acid room, accelerated aging
- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Super durable (UV resistant)
- TGIC free (non-toxic)

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Public realm contemporary column family. Stylish but technically precise area lighting solutions as part of a large flexible family.

Light Linear PT is an elegant minimalistic lighting column that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. The dual sealed optical chamber with integrated heat sinks houses a range of field interchangeable optically controlled LED's, providing Type II, III, IV & V distribution, as well as variations of this for precise light distribution requirements.

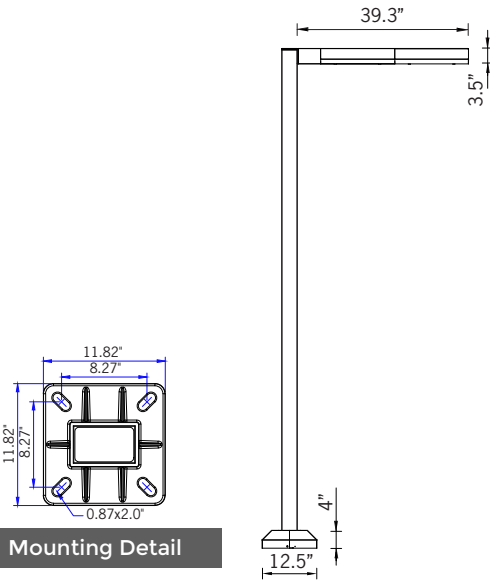
An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture. This product range is available in multiple wattage options and as single & double head styles. Customer specific wattages can be provided, contact the factory for more information.

This luminaire complies to Dark Sky requirements. The sleek and minimalistic shape provides distinctive lighting effects by night and decorative urban effect during the day. Suitable for use in pedestrian precincts, building surrounds, shopping centers, squares, parks and parking lots.

This product range is complemented with high performance optics in the bollard and wall mounted luminaires, to provide a consistent range of design aesthetics for the project. See website for more information. Poles can be provided with GFCI boxes positioned to specific heights specified by the customer. A flat low profile hand hole cover with vandal resistant screws is provided for easy installation.

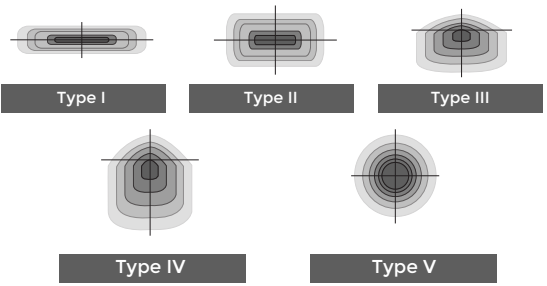
Internal house side shields are available as an option. Available with a selection of integral electronic drivers and dimming electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems, as well as pole mounted occupancy sensors [contact the factory for more information] Easy access to the luminaire for maintenance. (WATT-ADJ) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly. (See options on page 2)

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected and luminaire fix mounted (+/- 15" allowable to permit leveling).

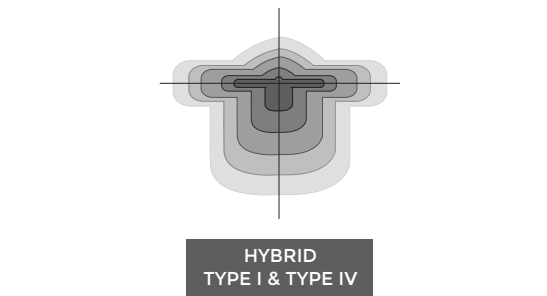


microVOS
TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



Additional Options (Consult Factory For Pricing)

A90991 Zhaga Book 18	A90891 NEMA 7	OS Occupancy Sensor

BSP
Bird Spikes



LIGHTCONNECT IoT Ready Light Linear
(Shown with up & down configuration)



106w LED
12518 Lumens

Weight 69.4 lbs

IP65
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

EPA - 1.20

POLE INCLUDED

Construction

Aluminum.
Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint
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Memory Retentive -Silicon Gasket
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Thermal management
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Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B2 - U0 - G2

Finishing.
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Paint
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- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Super durable (UV resistant)
- TGIC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
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LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

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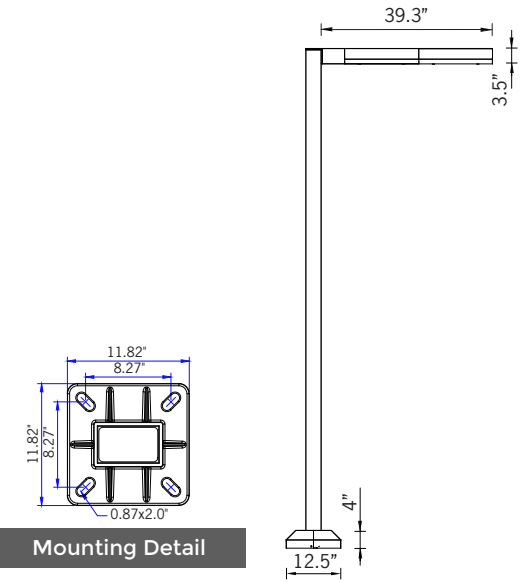
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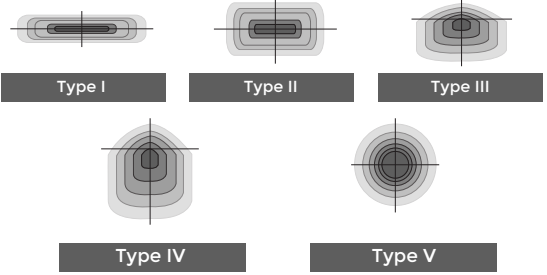
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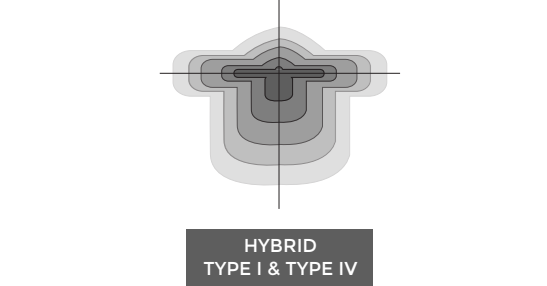
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BSP
Bird Spikes



LIGHTCONNECT IoT Ready Light Linear
(Shown with up & down configuration)

UMC-20011

Macaron 2 Post Top

O2

microVOS
TECHNOLOGY

LIGMAN
LIGHTING USA



81w LED	7263 Lumens
60w LED	5380 Lumens
50w LED	4483 Lumens
30w LED	2690 Lumens
IP66	Suitable for wet locations
IK08	Impact Resistant [Vandal Resistant]
EPA - 1.00	
Weight - 23.1 lbs	
POLE NOT INCLUDED	



Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint
8 step decrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

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Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B1 - U0 - G1

Finishing
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Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

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Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Modern, contemporary post top
Beautiful modern urban post top in either single or V-arm configuration, offering powerful street lighting and asymmetric beam performance choices.

A modern style die-cast aluminum post top decorative lantern with excellent downward light distribution that complies with dark sky requirements. Outstanding visual appeal and precision optical system gives very low glare rating, whilst reducing light pollution. This luminaire is available in two configurations, namely a single or v-arm option to suit aesthetic design requirements.

Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. Stainless steel screws. Durable silicone rubber gasket and clear tempered glass. Powder paint with high corrosion resistance with chemical chromatised protection. Integral control gear.

Customer specific wattages can be provided, please contact the factory for more information.

Available with a selection of dimmable integral electronic drivers, as well as a provision to install wireless lighting controls to integrate with building management systems. (WATT-ADJ) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected.

Additional Options (Consult Factory For Pricing)



A90991
Zhaga Book 18



A90891
NEMA 7



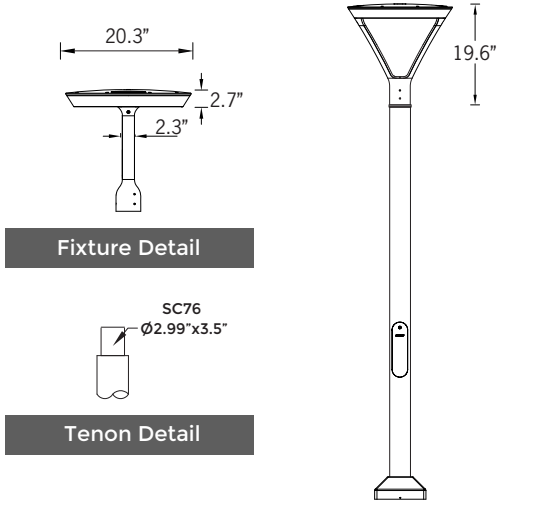
RGBW
RGBW Macaron



LIGHCONNECT IoT Ready Macaron

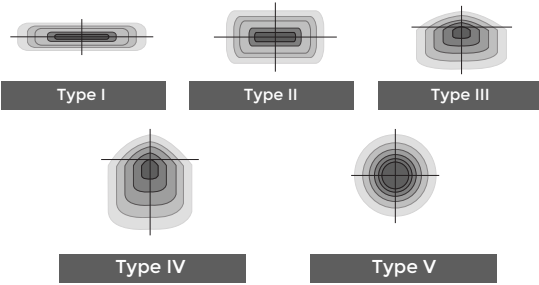
This luminaire is available with NEMA 7 or Zhaga Book 18 sockets for connection to intelligent lighting control systems.

SPLIT BEAM OPTIONS

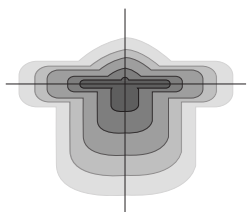


microVOS
TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



HYBRID
TYPE I & TYPE IV

American Beacon

The Proper Way to Light Your Flag!

An American Beacon Flagpole Lighting Package unites the patented Beacon Down Light with a Lifetime Pole Shaft Warranty from the industry's oldest and most recognized name in aluminum flagpoles... Concord American Flagpole.

The American Beacon is the most environmentally correct way to illuminate flags during night hours. For the first time, flags can be properly lit during nighttime hours without lighting adjoining property and the night sky. Patent #7,275,495.

- Minimize Light Pollution
- Rotates With The Flag, Focusing All Light On The Flag as the Wind Blows it Around the Flagpole
- Energy Efficient LED Bulbs Provide Years of Maintenance-Free Use
- Available for Flagpole Heights of 20' to 80'
- Residential Options Available
- Solar Packages Available
- Made in the USA

The Proper Way to Light Your Flag!

Official U.S. Flag Code
Section 2

A. "...when a patriotic effect is desired, the flag may be displayed twenty-four hours a day if properly illuminated during the hours of darkness."

Manufactured In
USA



Intertek
4010565
Conforms to UL STD 1598

International Dark Sky Association (IDA) is the recognized authority on light pollution and is the leading organization combating light pollution worldwide.

The IDA Device Seal of Approval was created to recognize a wide range of Dark Sky Friendly Technologies that aid in the mitigation of light pollution.

The American Beacon is certified by the International Dark Sky Association (IDA) as an IDA Approved Dark-Sky Friendly Fixture.



IDA Approved Dark-Sky
Friendly Fixture



BEGA LED system bollard - Impact bollard tube for vehicular drive-through protection

Post construction: One piece extruded aluminum, 3/16" wall thickness with a one piece base, internally welded into an assembly. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy. Designed to accept BEGA LED system bollard heads of 10 3/8" in diameter.

Anchor base: The anchorage unit is constructed of Grade-no. 1.4301 steel and is provided with openings for conduit entry. Bollard and anchor posts must be using in conjunction in order to uphold the impact load ratings. Anchorage weight (B96085) - 123.4 lbs.

Impact protection: The bollard tube and anchorage are designed for three different impact ratings depending on the corresponding foundation detail: Up to 1.5 metric tons at 6 mph, up to 1.5 metric tons at 30 mph, or up to 7.5 metric tons at 30 mph (meets K4 requirements). Full scale concrete and rebar structural construction documents provided. Statics calculation and design based on PA68: 2013 British Standard and Europe IWA 14-1: 2013.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations.

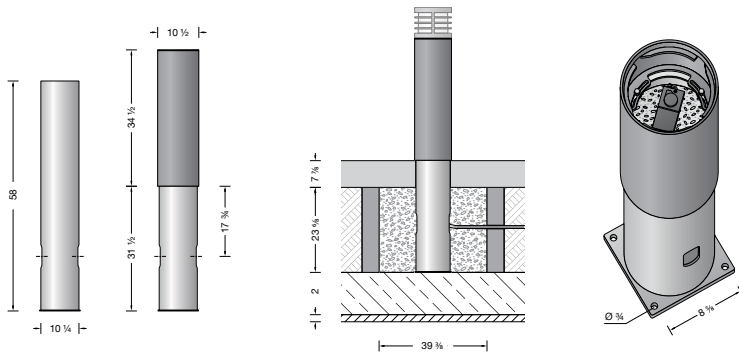
Weight: 140.7 lbs.



99 777

99 778

99 865



Bollard tubes for luminaire heights

	A	B
84 623	10 3/8	34 3/8

Type: **O4**
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



BEGA LED system bollard - luminaire head with shielded light - 360°

Enclosure: Housing constructed of die-cast aluminum. Die-castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy. Glass diffuser, inside white. Fully gasketed for weather tight operation using molded silicone gasket.

Installation: BEGA LED system bollards are designed for easy attachment to system bollard tubes using an interlocking stainless steel mechanism and stainless steel set screw threaded into stainless steel insert. An accompanying bollard tube must be selected for proper installation, see below chart for compatible tube options.

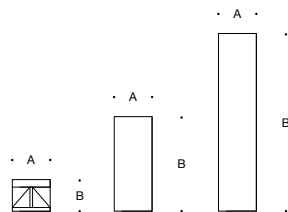
Electrical: 29.4W LED luminaire, 34 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with a >80 CRI. Available in 4000K (>80 CRI); add suffix K4 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Type: **04/06**
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



Bollard heads · shielded · 360°

Lamp	A	B
99 865 29.4W LED	$10\frac{3}{8}$	$7\frac{5}{8}$

Bollard tubes for luminaire heights $19\frac{3}{4}$ · $22\frac{1}{2}$

	A	B	Anch. unit
99 619	$10\frac{1}{2}$	$14\frac{1}{2}$	79 818

Bollard tubes for luminaire heights $37\frac{5}{8}$ · $42\frac{1}{4}$

Integrated components	Door	A	B	Anch. unit
99 624 —	✓	$10\frac{3}{8}$	$34\frac{1}{2}$	79 818
99 627 GFCI outlet	✓	$10\frac{3}{8}$	$34\frac{1}{2}$	79 818
99 659 Passive infrared motion sensor	✓	$10\frac{3}{8}$	$34\frac{1}{2}$	79 818
99 636 Emergency lighting battery 10W	✓	$10\frac{3}{8}$	$34\frac{1}{2}$	79 818
84 623 Impact bollard tube	—	$10\frac{3}{8}$	$34\frac{1}{2}$	—
98 010 240V NEMA 14-50R receptacle	—	$10\frac{3}{8}$	$34\frac{1}{2}$	79 818



Application

LED recessed wall luminaire with unshielded light and louvers for use as location luminaires for means of way finding.

Materials

Luminaire housing constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
 White safety glass
 Silicone applied robotically to plasma treated casting for increased adhesion
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 Stainless steel screw clamps
 Composite installation housing

NRTL listed to North American Standards, suitable for wet locations
 Protection class IP65
 Weight: 2.2 lbs

Electrical

Operating voltage 120-277VAC
 Minimum start temperature -40° C
 LED module wattage 3.8W
 System wattage 7.0W
 Controllability 0-10V dimmable
 Color rendering index Ra > 80
 Luminaire lumens 64 lumens (3000K)
 LED service life (L70) 60,000 hours

LED color temperature

- 4000K - Product number + **K4**
- 3500K - Product number + **K35**
- 3000K - Product number + **K3**
- 2700K - Product number + **K27**
- Amber - Product number + **AMB**

Wildlife friendly amber LED - Optional

Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

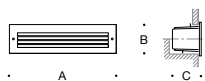
LED module wattage 4.2W (Amber)
 System wattage 5.5W (Amber)
 Luminaire lumens 17 lumens (Amber)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

- Available colors Black (BLK) White (WHT) RAL:
 Bronze (BRZ) Silver (SLV) CUS:



LED recessed wall luminaires · unshielded location luminaires

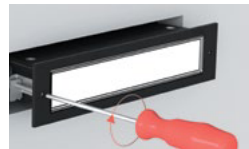
	LED	A	B	C
33019	3.8W	12 1/2	2 3/4	5

Type: **O5**

BEGA Product:

Project:

Modified:



Fully enclosed luminaire with installation housing ensures seamless integration and weathertight operation.



BEGA LED system bollard - bollard tube for luminaire height 43 1/4

Post construction: One piece extruded aluminum, 3/16" wall thickness with a one peice base, internally welded into an assembly. Provided with access door. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy. Designed to accept BEGA LED system bollard heads of 10 3/8" in diameter.

Anchor base: Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA 79 818 anchorage kit. Bollard secures to base with one stainless steel set screw. The mounting system allows the luminaire to be adjusted independent of anchor bolt orientation.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

Note: See below for compatible LED system bollard heads. See specifications for details.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 24.5 lbs.

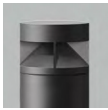
Type: **O6**
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



99 777



99 778



99 865



Bollard tubes for luminaire heights 31 1/2 · 39 1/4 · 43 1/4

	Door	A	B	Anch. unit
99 624	✓	10 3/8	34 1/2	79 818

Compact floodlight

Housing: Luminaire constructed of a one piece die-cast aluminum housing. LED module paired with inner reverse-tapered casting to provide maximum heat transfer to outer housing. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: Optical system consists of a reflector of pure anodized aluminum. The lens and optical assembly are secured by a die cast aluminum trim ring using (3) stainless steel captive fasteners.

Mounting: Provided with two piece die-cast aluminum canopy supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die-cast aluminum swivel.

Electrical: 13.9W LED luminaire, 16.0 total system watts, -30°C start temperature. Integral 120V - 277V electronic LED driver, 0-10V dimming. 6.5W low power option available, non dimming. The LED module and driver are mounted on a removable inner assembly for easy replacement. Standard LED color temperature is 4000K with an 85 CRI. Available in 3000K (85 CRI); add suffix K3 to order.

Note: Due to the dynamic nature of LED technology, LED luminaire data in this catalog is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

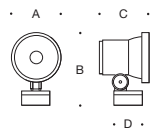
CSA certified to U.S. and Canadian standards for wet locations. Protection class IP65.

Weight: 4 lbs.

EPA (Effective projection area): 0.27 sq. ft.

Luminaire Lumens: 1330

Type: **07**
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



Compact floodlight · wide beam		Accessories				
Lamp	β	A	B	C	D	
77 682 13.9W LED	41°	5½	8	5½	3⅞	70055 70756
Exchangeable lenses	flat beam	180° glare shield	β = Beam angle			



ULI-10021

Light Linear PT 1 Single Head Bollard

08

microVOS
TECHNOLOGY

LIGMAN
LIGHTING USA



Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B1 - U0 - G1

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transfers the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

- Added Benefits**
- Resistance to salt-acid rain, accelerated aging
 - Boiling water, lime and condensed water resistant
 - Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
 - Super durable (UV resistant)
 - TGIC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Area distribution bollard-integrated projectors. Stylish but technically precise area lighting solutions as part of a large flexible family.

Light Linear PT Bollard is an elegant minimalist bollard that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. The dual sealed optical chamber with integrated heat sinks houses a range of field interchangeable optically controlled LED's, providing Type II, III, IV & V distribution, as well as variations of this for precise light distribution requirements. An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture. This product range is available in 29w and 55w options, as single & double head styles.

Customer specific wattages can be provided, contact the factory for more information.

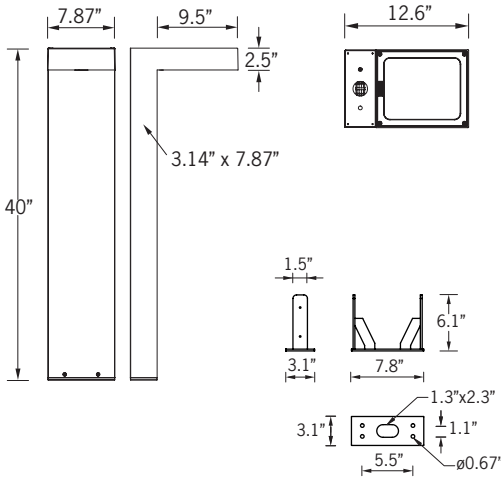
Bollards can be provided with GFCI boxes positioned to specific heights specified by the customer. Internal house side shields are available as an option.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected.

Optional: Security Bollard:
The Light Linear Bollard is available as a traffic rated security bollard.

This security bollard provides restraint of vehicular traffic in unauthorized areas. Impact calculations shows this bollard will stop a 5,500lb/2.75 tons vehicle, travelling at 30mph. The galvanized pole must be filled with concrete up to the waterproof driver housing to provide a solid concrete barrier.

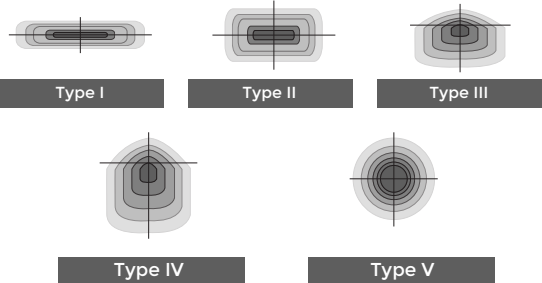
29w LED 3169 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 24.6 lbs



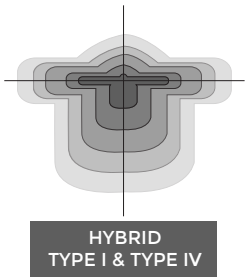
Mounting Detail



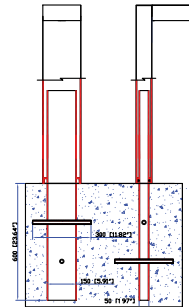
Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



Additional Options (Consult Factory For Pricing)



A13391 Security Bollard

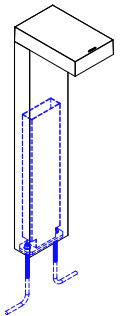


GFCI CFCI Box



RCBW or Static Color Laser Cut Lettering, Logos & Designs (LLVT Bollard shown for visual reference)

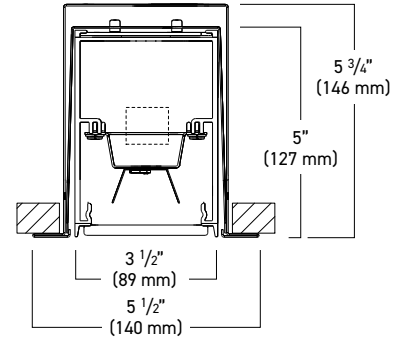
Ligman can provide custom logos and signage in the Light Linear Bollard. The images above show this feature in the Light Linear VT Bollard



VRBI Vandal Resistant Bollard Insert
This vandal resistant galvanized steel insert provides additional support and rigidity in areas with high pedestrian traffic.

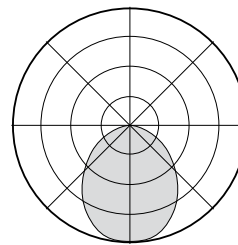


REGOLO IP65 RATED
RXT-F Recessed / Flush Lens
 Direct Integral Driver



- IP65 rated exterior linear luminaire designed for demanding environments for protection against water, dust, oil, and non-corrosive material.
- Rugged three-sided .125" thick aluminum housing with welded seams and end caps. Housing standard finish is electrostatically applied textured white power coat paint. Optional silver, black, or custom color paints finishes.
- Long life distributed LED array in a variety of lumen output packages. LED color is available in 3000K, 3500K or 4000K with a CRI of 80 or 90. Custom outputs are available. Module is replaceable. L90>100,000 hrs.
- Fully sealed gasketed lens and electrical fittings.

RXT-F (Flush Frosted Lens)
 100% Downtight



Light Output and Energy Consumption*

Light Level	lm/ft	Watts/ft	Efficacy
03	307	3.4	90.0
05	497	5.6	88.3
07	682	7.9	86.6
09	928	10.8	85.7

Lumen output may vary. 3500K used for above results.

ORDERING INFORMATION

SAMPLE NUMBER: RXT-F-FF-07L35-1C-U-D-W-4

RXT-F	FF	—	—	1E
SERIES	DIRECT SHIELDING	LUMEN PACKAGE ²	CRI/ CCT	CIRCUIT ⁴

RXT-F - Regolo 4" wide IP65 rated recessed fixtures; designed for installation in ceilings¹

FF - Flush Frosted

03 - ~300 lm/ft
05 - ~500 lm/ft
07 - ~700 lm/ft
09 - ~900 lm/ft
XX³

L30 - 80 CRI, 3000K
L35 - 80 CRI, 3500K
L40 - 80 CRI, 4000K
H30 - 90 CRI, 3000K
H35 - 90 CRI, 3500K
H40 - 90 CRI, 4000K

1C - Single Circuit
1E - Single Circuit with EM Circuit
1B5 - Single Circuit with 5W Battery Pack
1B7 - Single Circuit with 7W Battery Pack
1B10 - Single Circuit with 10W Battery Pack
1B12 - Single Circuit with 12W Battery Pack
CEC - CEC Compliant (10W Battery Pack)

- Notes:**
1. RXT-F is designed for installation in ceilings only and not in-wall applications.
 2. Nominal lumen output for 3500K, 80 CRI
 3. Consult factory for custom lumen package
 4. In order to have a battery or emergency circuit, luminaire is required to be >4'. Consult factory for additional options
 5. Consult factory for specifications and custom dimming options. See page 2 for additional information
 6. Consult factory for additional options
 7. Specify run length in 1' increments
 8. Please select 1 - 120 volt or 2 - 277 volt

2	D	W	2	—
VOLTAGE	DRIVER ⁵	LUMINAIRE FINISH	LENGTH	OPTIONS

U - Universal
1 - 127 Volt
2 - 277 Volt

Dimming 0-10V
D - Dims to 1% (Standard)
D0 - Dims to 1%, fade to off
D02 - Eldoled Solodrive, dims to 0%

DALI Dimming
ELE - Eldoled Ecodrive, dims to 1%
ELS - Eldoled Solodrive, dims to 0%
Lutron Dimming
L12 - Lutron HiLume™ 2-Wire 120V Forward Phase, dims to 1%
L15 - Lutron HiLume™ H-Series, dims to 1%
L16 - Lutron HiLume™ S-Series, dims to 5%

W - White (Standard)
S - Silver
B - Black
CC⁵ - Custom Color

2 - 2 ft
3 - 3 ft
4 - 4 ft
5 - 5 ft
6 - 6 ft
7 - 7 ft
8 - 8 ft
XX⁷ - x ft

GTD⁸ - Generator transfer device
ETS⁸ - Electronic transfer switch
GLR - Fusing
VR - Vandal resistant

10'



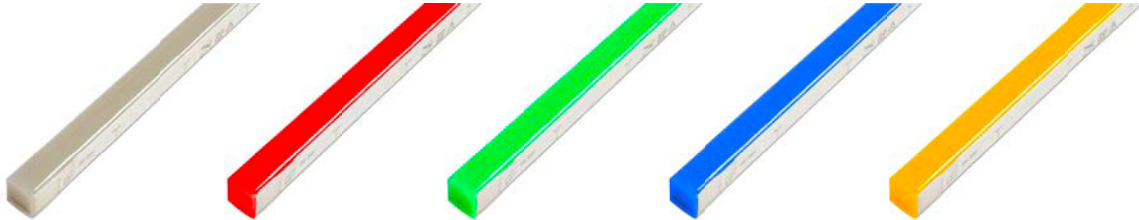
SIGNWAVE® 3 (INDOOR/OUTDOOR)

SW3-SERIES | NARROW VIEW FLEXIBLE LIGHTING SYSTEM

Fixture Type: T1

Project: _____

Location: _____



Color/Kelvin	WHITE (Specify CCT)	RED	GREEN	BLUE	AMBER	RGBW	CT (2500+5000K)
Wavelength	N/A	620-630nm	520-530nm	465-475nm	585-595nm	N/A	N/A
Wattage	3.7W/ft	2.2W/ft	3.7W/ft	3.7W/ft	2.2W/ft	4.6W/ft	3.7W/ft
Power Feed	Every 26ft	Every 39ft	Every 26ft	Every 26ft	Every 39ft	Every 21ft	Every 26ft
Production Intervals	2.188"	3.25"	2.188"	2.188"	3.25"	3.25"	3.25"

PRODUCT FEATURES

- Dimmable
- 50,000 hour life
- Flat profile for streamline projects
- Horizontal or vertical bending option
- IP67 or IP68 option
- UL-listed for indoor and outdoor use
- Factory-installed power feed
- Injection-molded flush end caps
- For use with 24V power supplies

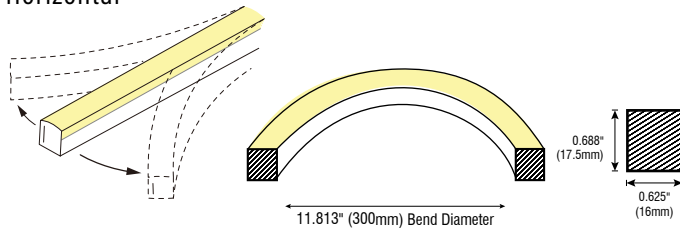
SPECIFICATIONS

Series	SW3 - Signwave® 3
Input Voltage	24V DC
Max Run Length	Unlimited, Refer to Power Feed Above
Lumens	162 Lm/ft (White)
Beam Angle	160°
Dimensions	0.625"(16mm) × 0.688"(17mm)
CRI	80+
Dimming Options	PWM, Triac, 0-10V, DMX, Hi-lume
Temp Range	-4°F (-20°C) to 113°F (45°C)

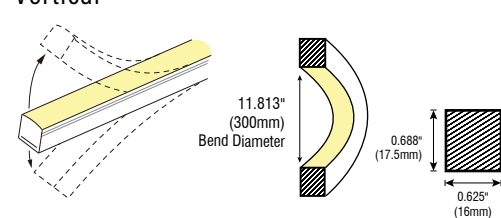


BENDING OPTIONS & PROFILE DIMENSIONS

Horizontal



Vertical



Conforms to ANSI/UL Standard 2108
 Certified to CAN/CSA Standard C22.2 No. 250.0





WDGE2 LED

Architectural Wall Sconce

Precision Refractive Optic



Catalog Number

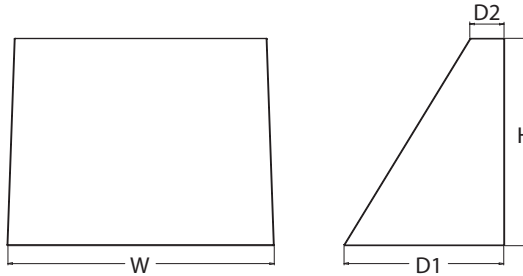
Notes

Type **W1**

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

- Depth (D1):** 7"
- Depth (D2):** 1.5"
- Height:** 9"
- Width:** 11.5"
- Weight:** 13.5 lbs
(without options)



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0 ¹	27K 2700K	70CRI ⁴	T1S Type I Short	MVOLT	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁶ Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.
	P1 ²	30K 3000K	80CRI	T2M Type II Medium	347 ⁵	
	P2 ²	40K 4000K	LW ³ Limited Wavelength	T3M Type III Medium	480 ⁵	
	P3 ²	50K 5000K		T4M Type IV Medium		
	P4 ²	AMB ³ Amber		TFTM Forward Throw Medium		

Options	Finish
E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min) E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min) PE⁷ Photocell, Button Type DMG⁸ 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points. BAA Buy America(n) Act Compliant	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DBBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone
Standalone Sensors/Controls PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. Networked Sensors/Controls NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights. NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights. See page 4 for out of box functionality	



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WDGE2 LED
 Rev. 11/21/22



WEDGE1 LED

Architectural Wall Sconce



Catalog Number

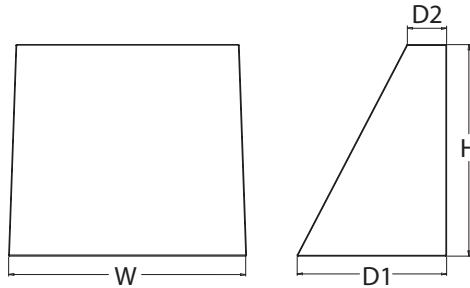
Notes

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Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: 9 lbs
 (without options)



Introduction

The WEDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WEDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WEDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WEDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WEDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WEDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WEDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WEDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WEDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WEDGE1 LED	P1 P2	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT 347 ²	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁵ Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.
		30K 3000K	90CRI	VW Visual comfort wide		
		35K 3500K				
		40K 4000K				
		50K ¹ 5000K				

Options	Finish
E4WH ³ Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)	DDBXD Dark bronze
PE ⁴ Photocell, Button Type	DBLXD Black
DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD Natural aluminum
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
BAA Buy America(n) Act Compliant	DDBTXD Textured dark bronze
	DBLBXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD WEDGE 3/8inch Architectural Wall Spacer (specify finish)
 WDGE1PBBW DDBXD U WEDGE1 surface-mounted back box (specify finish)

NOTES

- 50K not available in 90CRI.
- 347V not available with E4WH, DS or PE.
- E4WH not available with PE or DS.
- PE not available with DS.
- Not qualified for DLC. Not available with E4WH.



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WEDGE1 LED
 Rev. 11/21/22

Wall luminaires with directed light

Housing: One piece die-cast aluminum supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: One piece die-cast aluminum cover frame secured by captive socket head, stainless steel screws threaded into stainless steel inserts. Semi-specular, anodized aluminum internal reflector. Stippled tempered clear glass. Fully gasketed for weather tight operation using a molded silicone rubber O-ring gasket.

Electrical: 17.9W LED luminaire, 22.9 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 90 CRI. Available in 4000K (90 CRI); add suffix K4 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

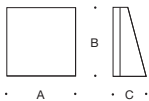
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: lbs.

Luminaire Lumens: 1893

Type: **W2**
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



	Lamp	A	B	C
33242	ADA 17.9W LED	8	8	3¾

