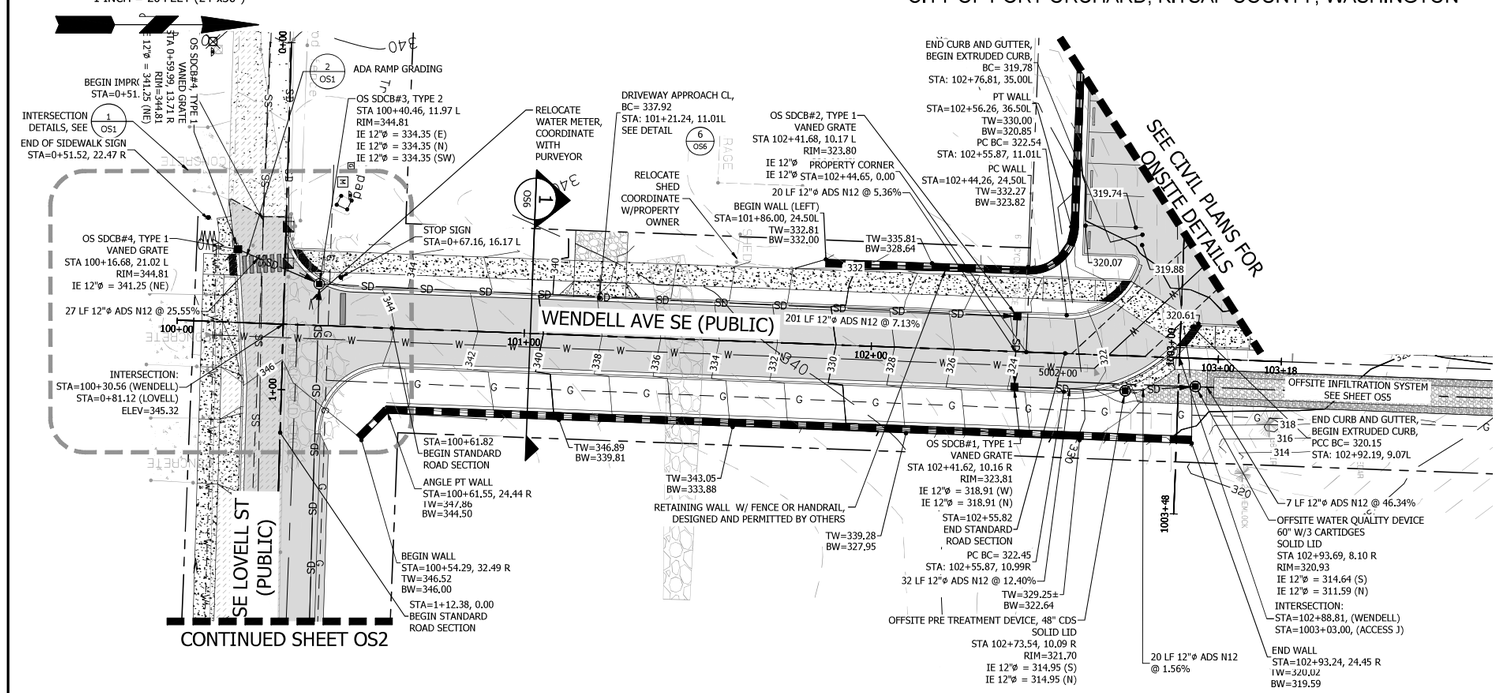
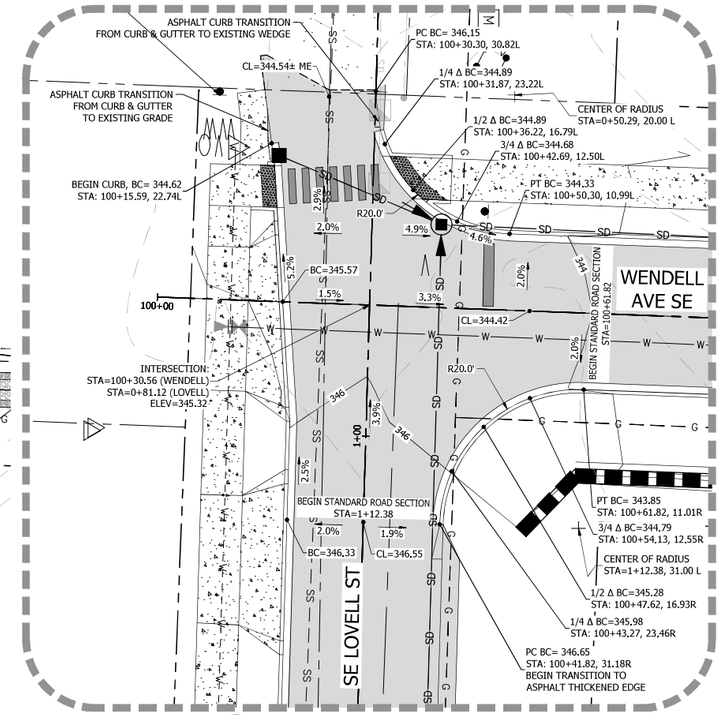
OVERLOOK APARTMENTS PHASE II

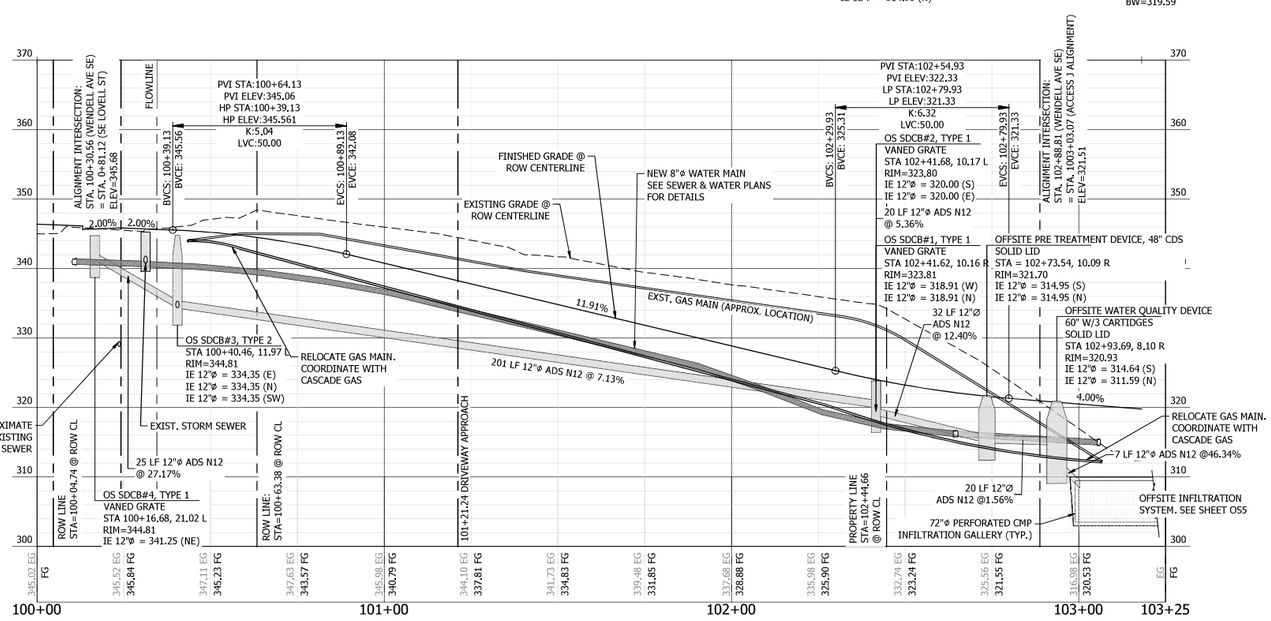
A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

GRAPHIC SCALE
0 20 40
1 INCH = 20 FEET (24"x36")

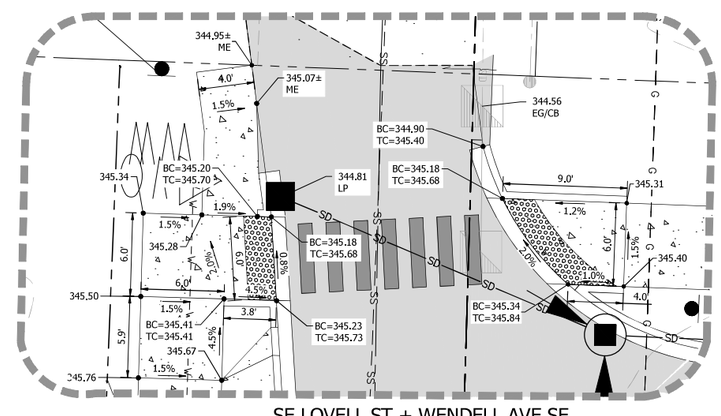




1 WENDELL+LOVELL INTERSECTION
SCALE: 1"=10'



ROAD AND STORM CENTERLINE PROFILE-WENDELL AVE SE
STA: 100+00.00 - 103+25.00
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



2 SE LOVELL ST + WENDELL AVE SE ADA RAMP
SCALE: 1"=5'

CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

VERIFICATION NOTE

ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA SHALL BE IDENTIFIED AND VERIFIED FOR DEPTH AND LOCATION PRIOR TO ANY CONSTRUCTION ACTIVITIES SO TO IDENTIFY ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

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REVISION	DATE	BY	DESCRIPTION

CONTOUR CIVIL ENGINEERING • LLC
ENGINEERS~SURVEYORS~LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplic.com

JEREMY F. HAUG STATE OF WASHINGTON 45264 REGISTERED PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: ROAD AND STORM PLAN & PROFILE - WENDELL AVE SE
OVERLOOK APARTMENTS PHASE II

CLIENT: OLAA, LLC
15234 SE 366TH PLACE
AUBURN, WA 98092

CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12

PROJECT: 16-300
DWG NAME: 16-300-C

SHEET	REV.
OS1	2

26 OF 44

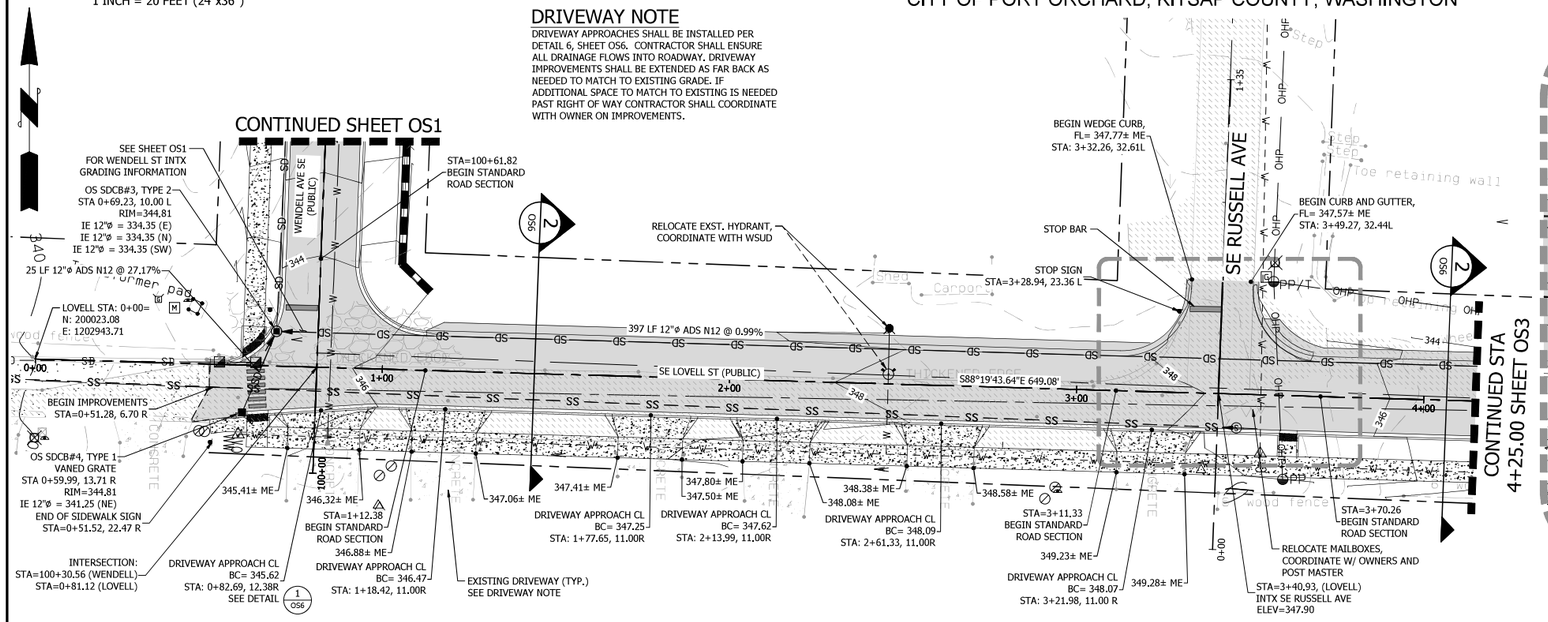
OVERLOOK APARTMENTS PHASE II

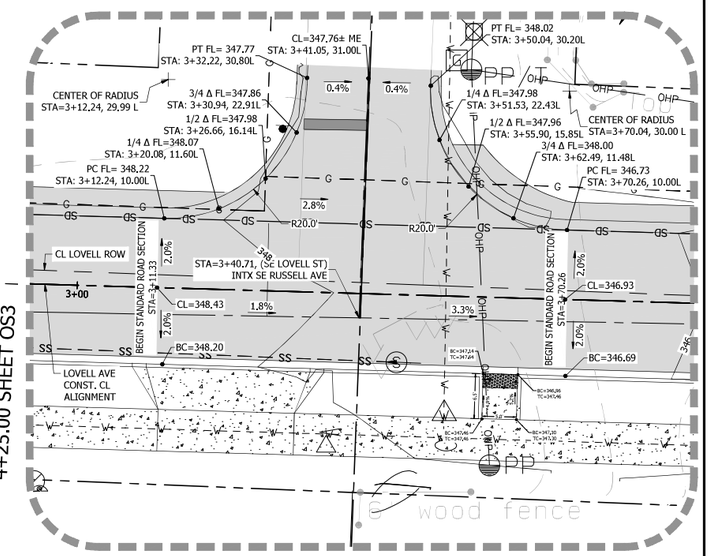
A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

GRAPHIC SCALE
0 20 40
1 INCH = 20 FEET (24"x36")

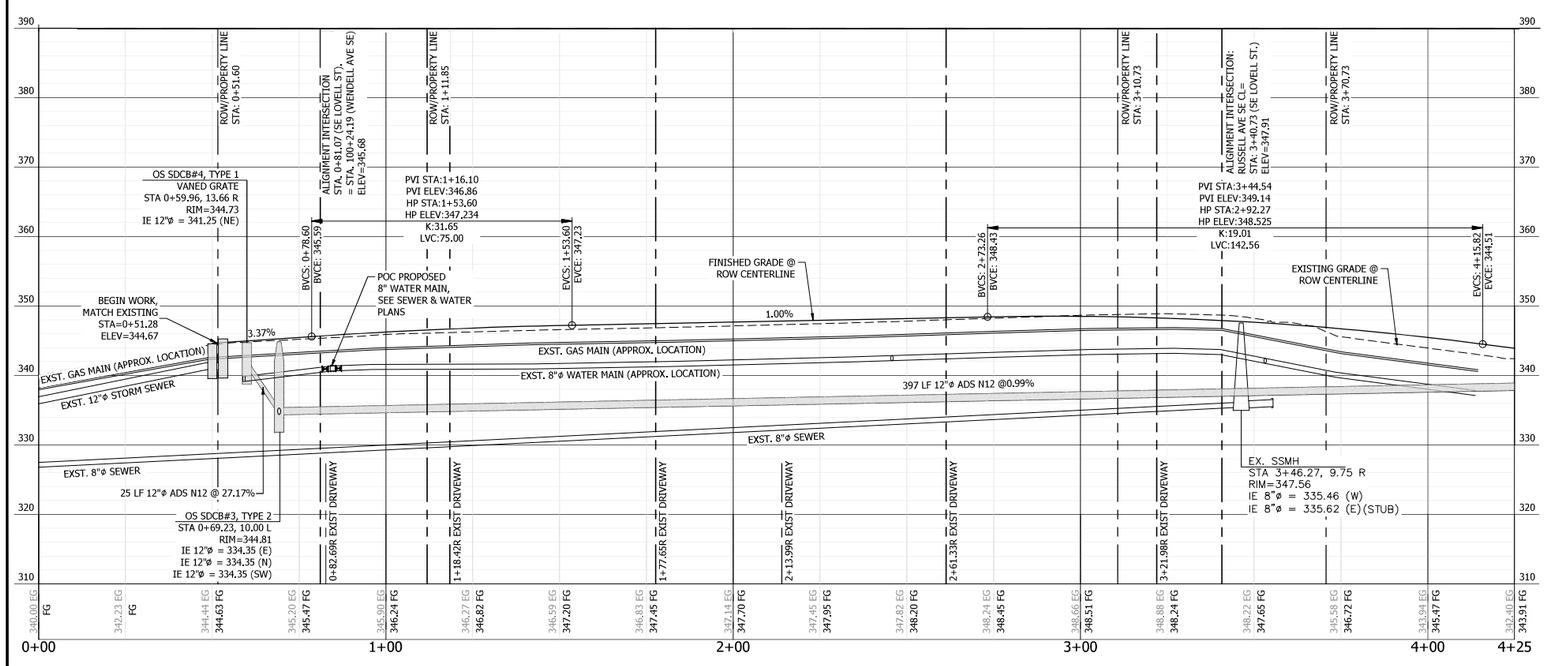
DRIVEWAY NOTE

DRIVEWAY APPROACHES SHALL BE INSTALLED PER DETAIL 6, SHEET OS6. CONTRACTOR SHALL ENSURE ALL DRAINAGE FLOWS INTO ROADWAY. DRIVEWAY IMPROVEMENTS SHALL BE EXTENDED AS FAR BACK AS NEEDED TO MATCH TO EXISTING GRADE. IF ADDITIONAL SPACE TO MATCH TO EXISTING IS NEEDED PAST RIGHT OF WAY CONTRACTOR SHALL COORDINATE WITH OWNER ON IMPROVEMENTS.

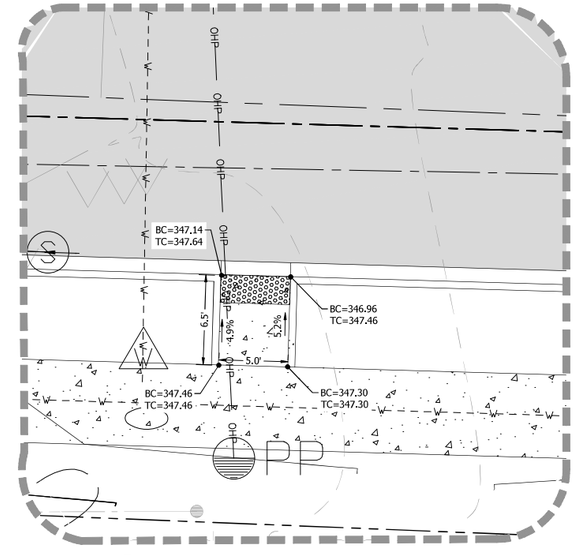




1 LOVELL + RUSSELL INTERSECTION
SCALE: 1"=10'



ROAD AND STORM CENTERLINE PROFILE - SE LOVELL ST
STA: 0+00.00 - 4+25.00
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



2 LOVELL + RUSSELL RAMP
SCALE: 1"=10'

CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

VERIFICATION NOTE

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REVISION	DATE	BY	DESCRIPTION

CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
3305 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourllc.com

JEREMY F. HAUG, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: ROAD AND STORM PLAN & PROFILE - SE LOVELL ST
OVERLOOK APARTMENTS PHASE II
CLIENT: OLAA, LLC 15234 SE 366TH PLACE AUBURN, WA 98092
CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

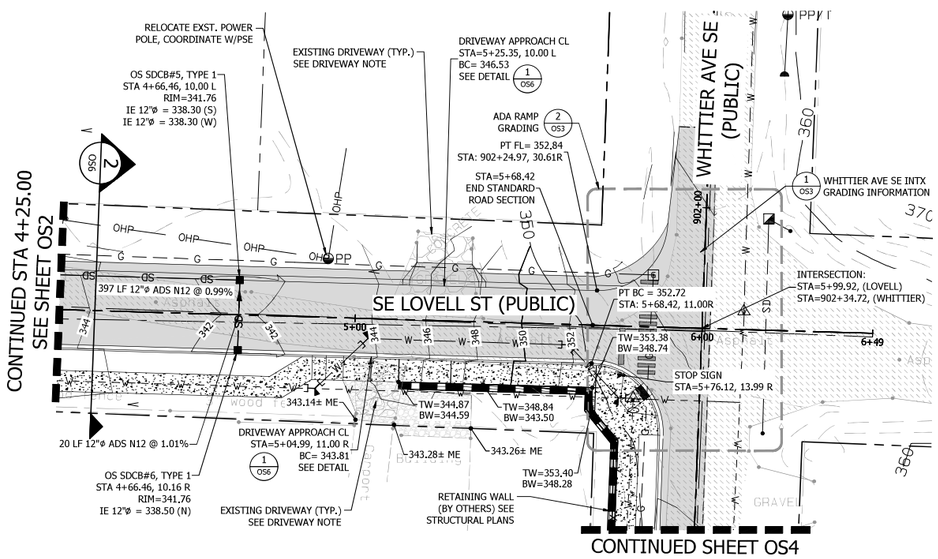
DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12
PROJECT: 16-300
DWG NAME: 16-300-C

SHEET: OS2 | REV. 2

OVERLOOK APARTMENTS PHASE II

A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

GRAPHIC SCALE
0 20 40
1 INCH = 20 FEET (24"x36")



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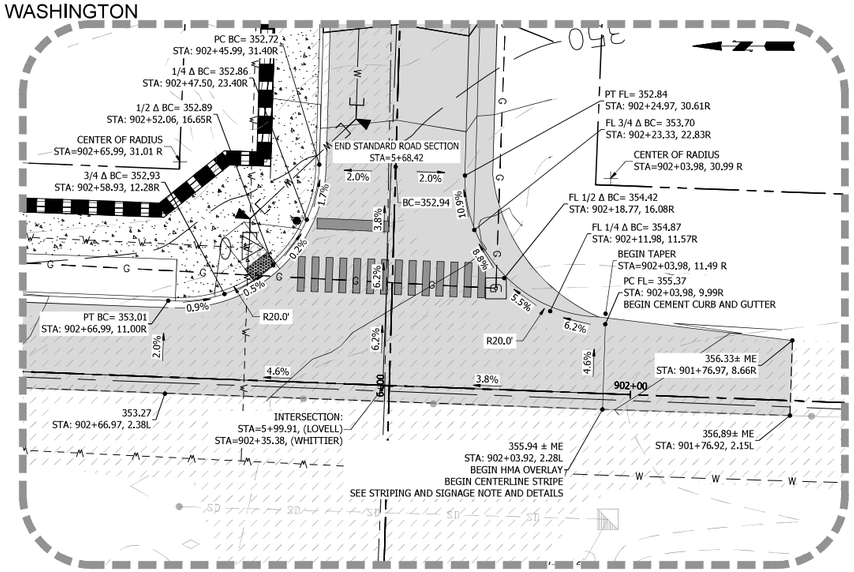
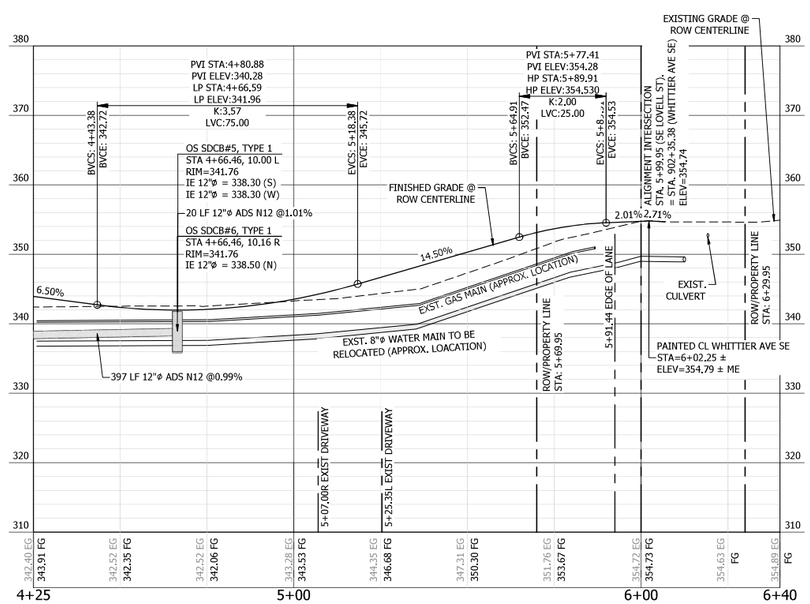


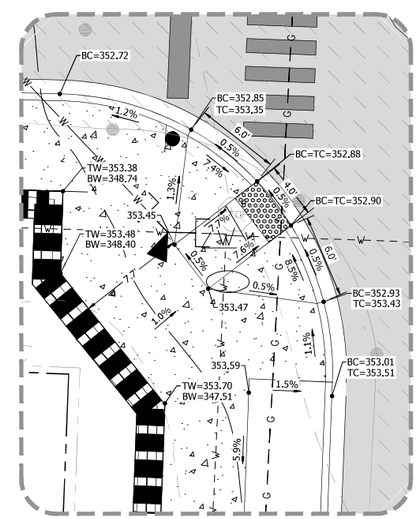
1 LOVELL + WHITTIER INTERSECTION
SCALE: 1"=10'

NOTE: RAMPS AND ACCESSIBLE ROUTES WERE DESIGNED TO MEET ADA STANDARDS TO THE MAXIMUM EXTENT FEASIBLE. DUE TO THE SITE TOPOGRAPHY, SOME PROPOSED SLOPES (AS SHOWN) MAY NEED TO EXCEED THE MAXIMUM ALLOWED AS INDICATED WITH (*).

PER ADA ACCESSIBILITY STANDARDS, THE MAXIMUM RAMP LONGITUDINAL SLOPE IS 8.33% (1:12), MAXIMUM SIDEWALK LONGITUDINAL SLOPE IS 5.0% (1:20) MAXIMUM CROSS SLOPE IS 2.0% (1:48). ALL RAMP LANDINGS SHALL NOT EXCEED 2.0% (1:48) IN ANY DIRECTION.



ROAD AND STORM CENTERLINE PROFILE - SE LOVELL ST
STA: 4+15.00 - 6+40.00
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



3 SE LOVELL ST + WHITTIER AVE SE SW ADA RAMP
SCALE: 1"=5'

VERIFICATION NOTE

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CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplc.com

JEREMY F. HAUG, STATE OF WASHINGTON, 40704, PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: ROAD AND STORM PLAN & PROFILE - SE LOVELL ST
OVERLOOK APARTMENTS PHASE II
CLIENT: OLAA, LLC 15234 SE 366TH PLACE AUBURN, WA 98092
CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12
PROJECT: 16-300
DWG NAME: 16-300-C

SHEET OS3 — 28 OF 44
REV. 2

OVERLOOK APARTMENTS PHASE II

A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

GRAPHIC SCALE
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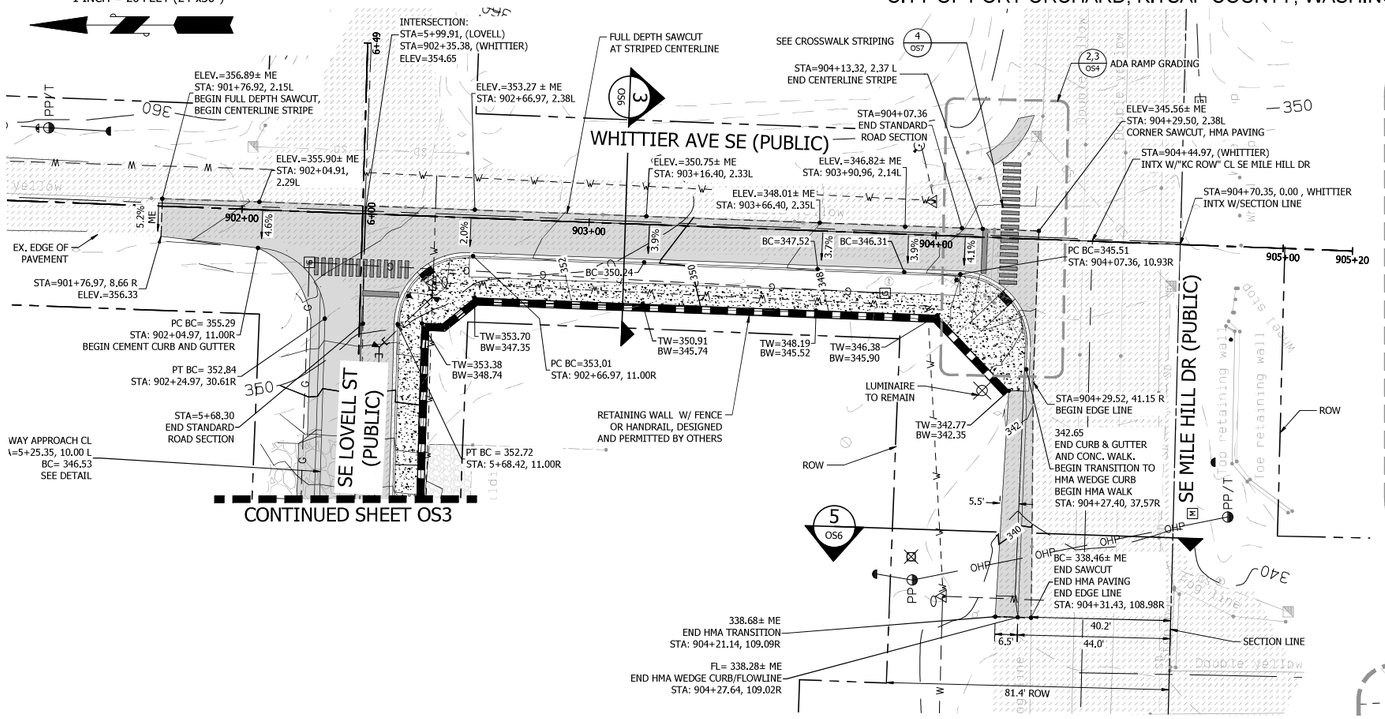
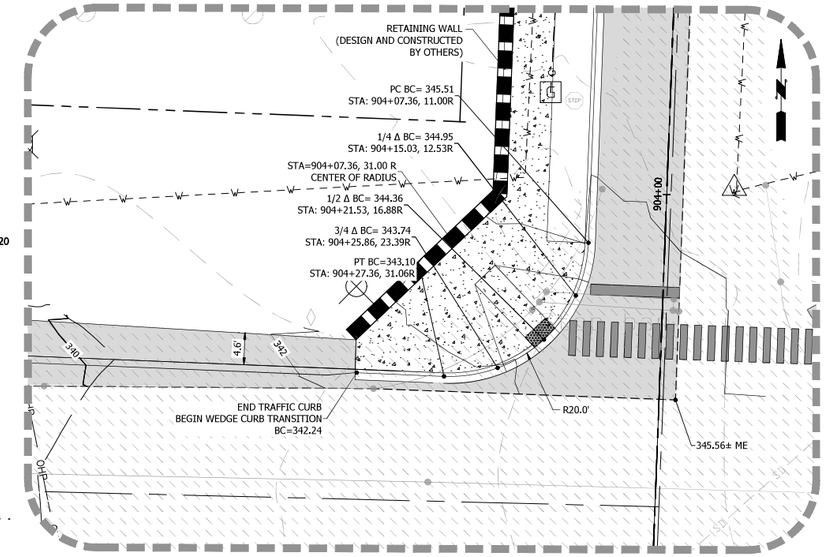
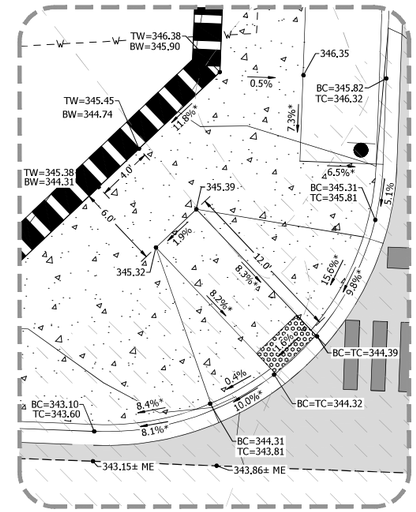
1 INCH = 20 FEET (24"x36")

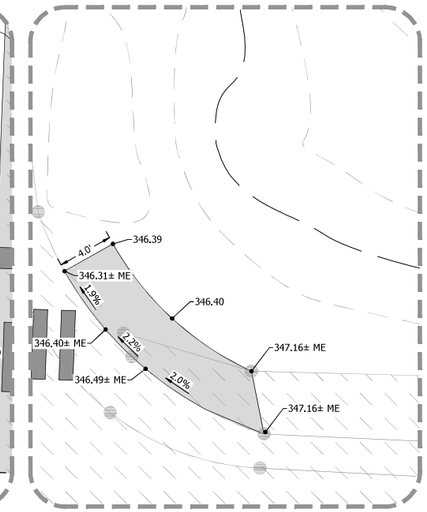




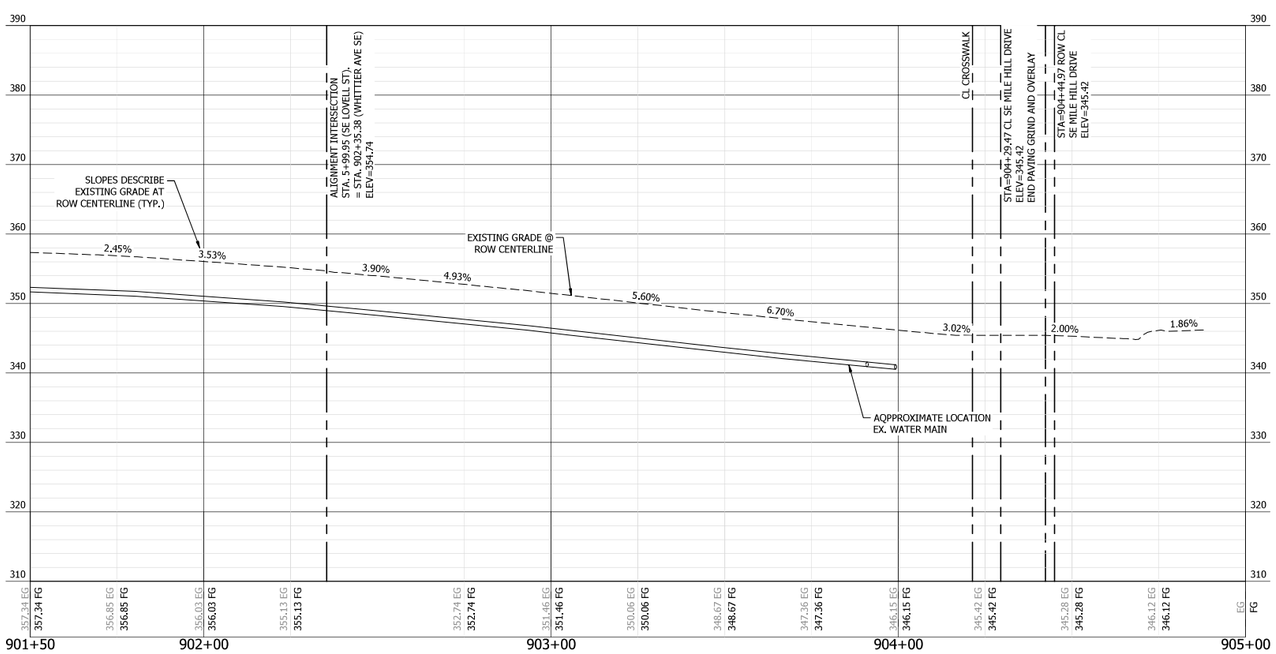
1 WHITTIER + MILE HILL INTERSECTION
SCALE: 1"=10'



2 WHITTIER AVE SE + SE MILE HILL DR NW ADA RAMP
SCALE: 1"=5'



3 WHITTIER AVE SE + SE MILE HILL DR NE TEMPORARY RAMP
SCALE: 1"=5'



ROAD AND STORM CENTERLINE PROFILE - WHITTIER AVE SE
STA: 901+50.00 - 905+00.00
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

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CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplic.com

JEREMY F. HAUG, STATE OF WASHINGTON, PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: ROAD AND STORM PLAN & PROFILE - WHITTIER AVE SE
OVERLOOK APARTMENTS PHASE II

CLIENT: OLAA, LLC
15234 SE 366TH PLACE
AUBURN, WA 98092

CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12

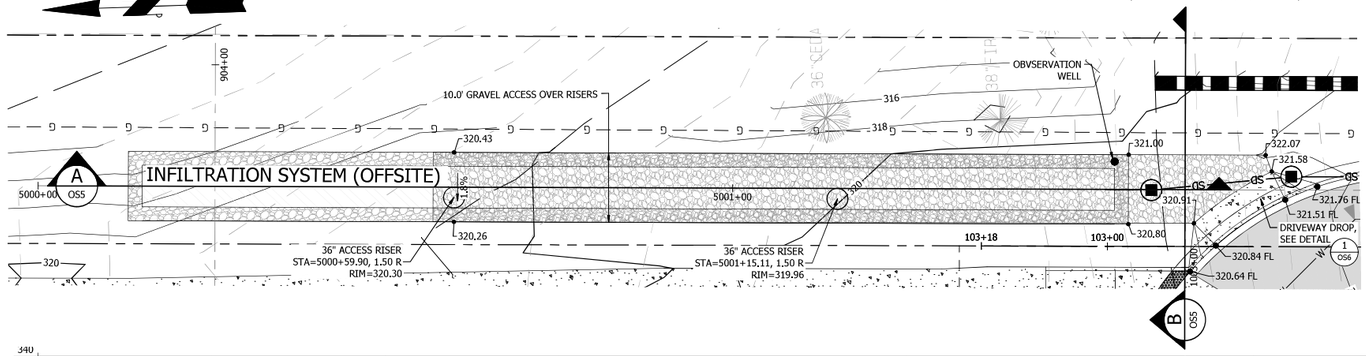
PROJECT: 16-300
DWG NAME: 16-300-C

SHEET: OS4
REV.: 2

OVERLOOK APARTMENTS PHASE II

A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

GRAPHIC SCALE
0 10 20
1 INCH = 10 FEET (24"x36")



DRAINAGE NOTE

BEFORE INSTALLATION OF THE INFILTRATION SYSTEM, THE GEOTECHNICAL ENGINEER SHALL INSPECT THE UNDERLYING SOILS AND DETERMINE THE FINAL DEPTH OF THE GRAVEL BED.

INFILTRATION SYSTEM NOTE

PIPE DIAMETER:	6.0'
PIPE LENGTH:	140 LF
GRAVEL BASE AREA:	1,440 SF
GRAVEL TOP AREA:	2,736 SF
TANK STORAGE:	3,958 CF
GRAVEL STORAGE:	5,116 CF
TOTAL STORAGE:	9,074 CF (0.208 AC-FT)
POROSITY:	35%
INFILTRATION RATE:	4"/HR
BOTTOM OF GRAVEL ELEV:	303.0
BOTTOM OF TANK ELEV:	303.5

VERIFICATION NOTE

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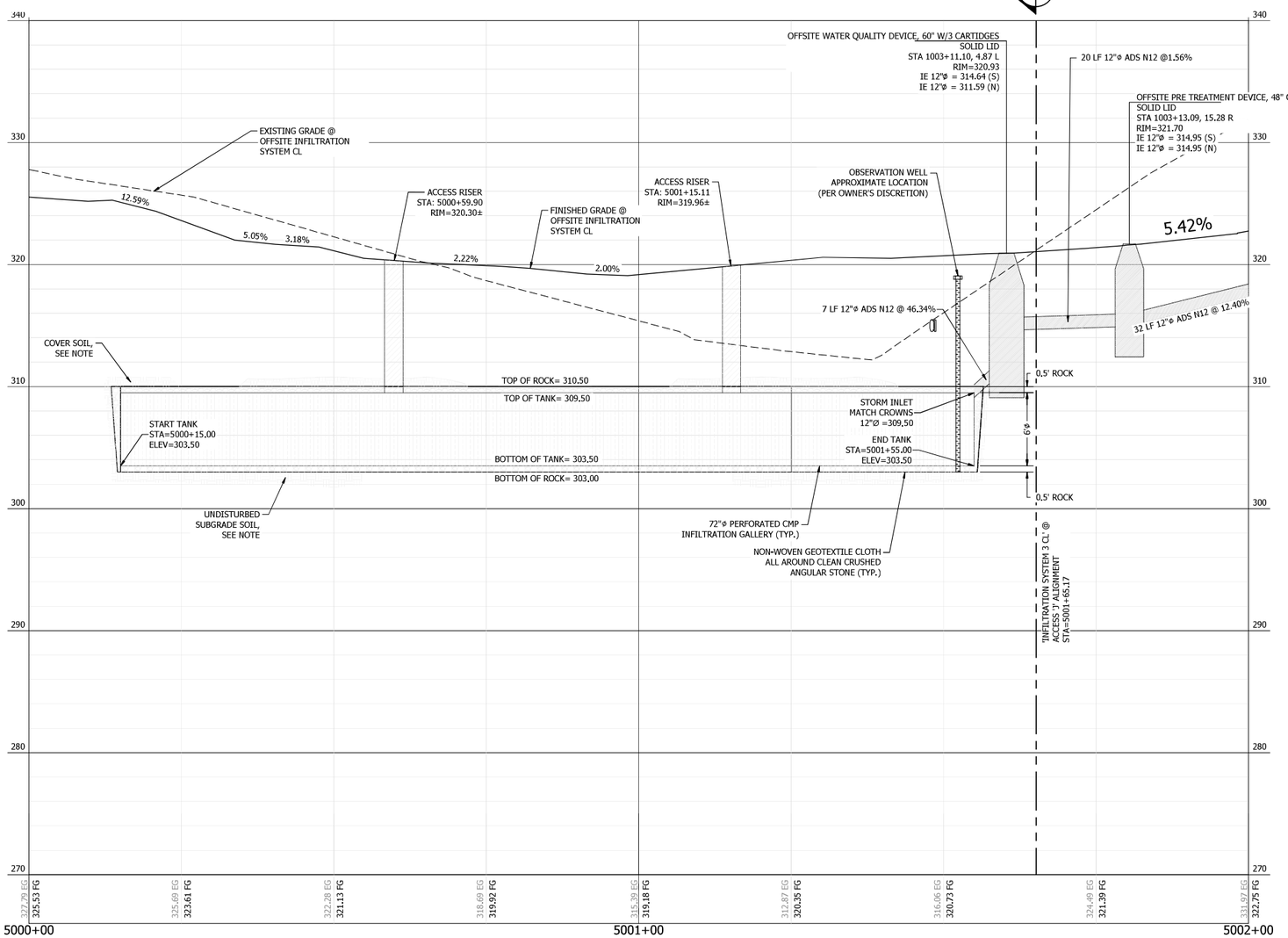
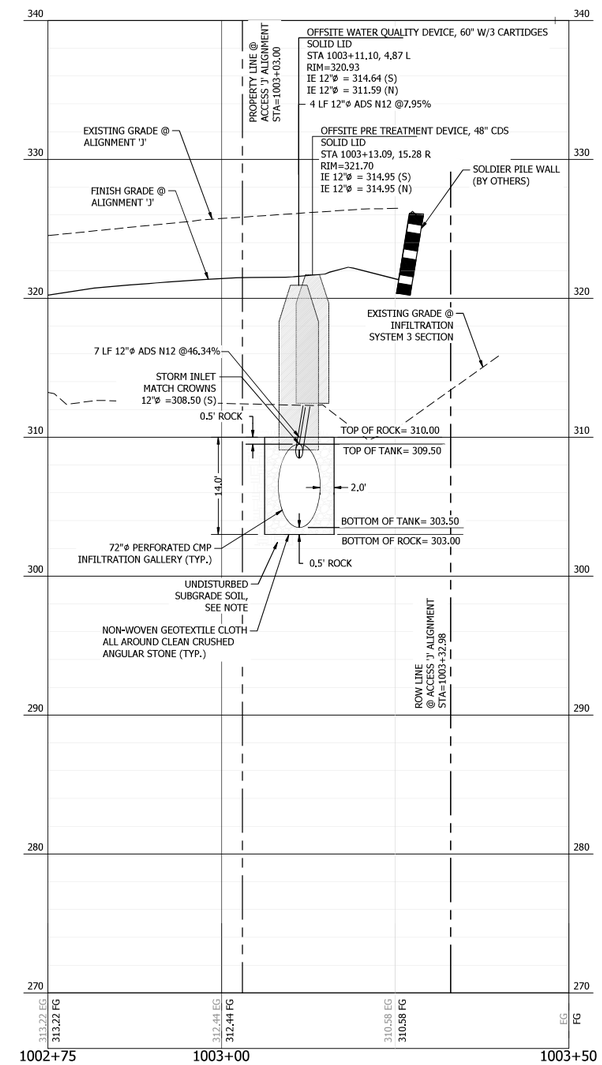


A INFILTRATION SYSTEM 3 PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'



B INFILTRATION SYSTEM 3 SECTION
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'

REVISION	DESCRIPTION	DATE	BY

CONTOUR ENGINEERING • LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplc.com

JEREMY F. HAUG, STATE OF WASHINGTON, 40544, PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: OFFSITE INFILTRATION SYSTEM PLAN AND PROFILE
OVERLOOK APARTMENTS PHASE II

CLIENT: OLAA, LLC
15234 SE 356TH PLACE
AUBURN, WA 98092

CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

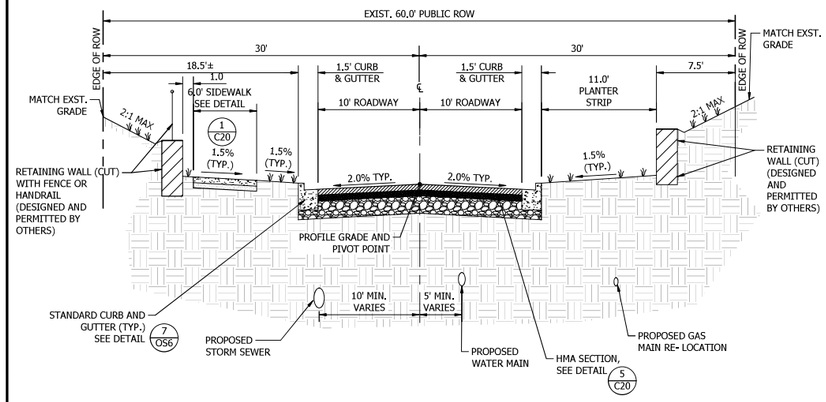
DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12

PROJECT: 16-300
DWG NAME: 16-300-C

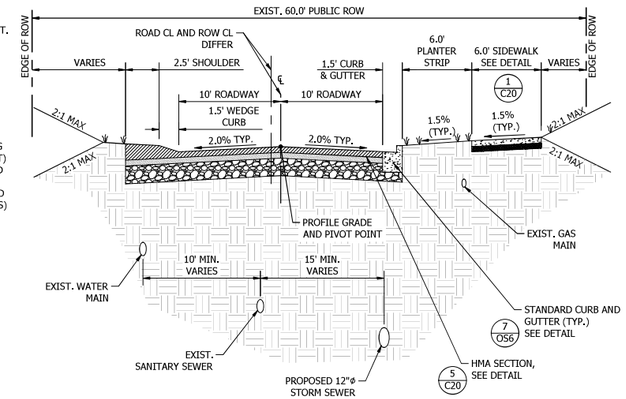
SHEET: OS5
REV: 2

OVERLOOK APARTMENTS PHASE II

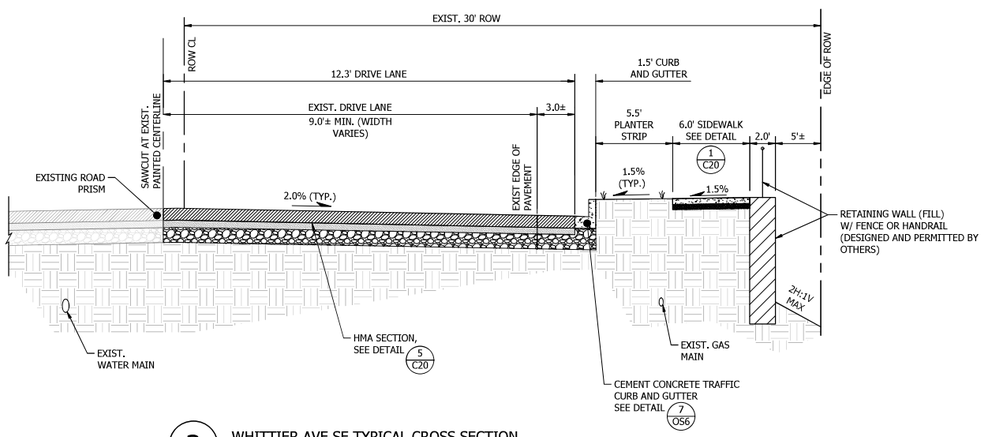
A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON



1 WENDELL AVE SE TYPICAL CROSS SECTION
NOT TO SCALE STA: 100+54.77 TO 102+55.82

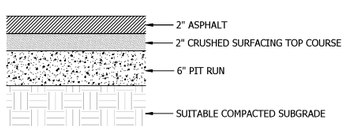


2 SE LOVELL ST TYPICAL CROSS SECTION
NOT TO SCALE STA: 1+11.64 TO 3+12.52, STA: 3+70.57 TO 5+70.34

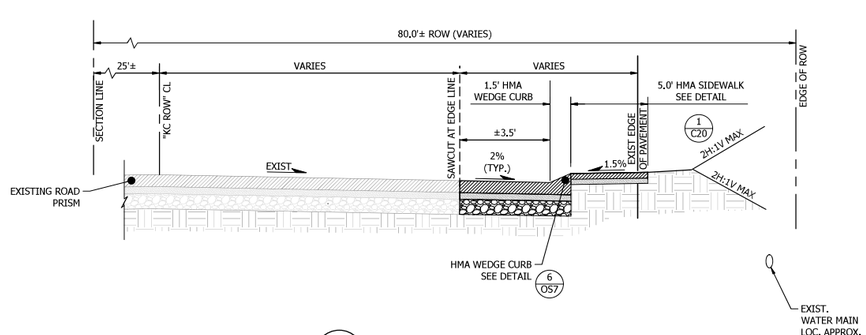


NOTE:
1. SIDEWALKS SHALL MEET AMERICANS WITH DISABILITIES ACT REQUIREMENTS.

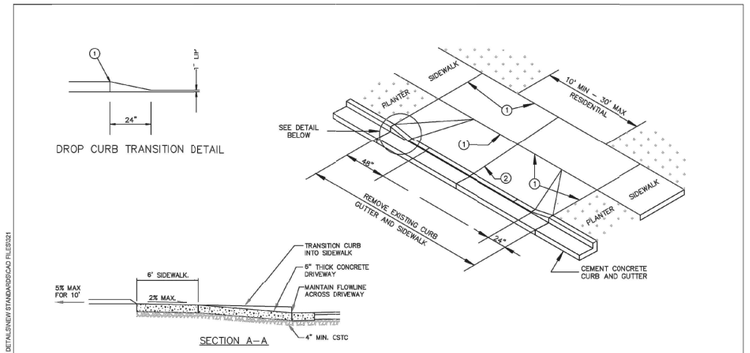
3 WHITTIER AVE SE TYPICAL CROSS SECTION
NOT TO SCALE STA: 902+66.97 TO 904+07.36



4 TYPICAL PAVEMENT SECTION
NOT TO SCALE



5 SE MILE HILL DR. SECTION
NOT TO SCALE



NOTES:

1. FULL DEPTH EXPANSION JOINT, 3/8" MINIMUM THICKNESS.
2. FULL DEPTH EXPANSION JOINT, 3/8" MINIMUM THICKNESS IF WIDTH OF DRIVEWAY IS 15 FEET OR GREATER.
3. DRIVEWAY SECTION WITHIN PUBLIC RIGHT-OF-WAY IS TO BE SURFACED WITH ASPHALT OR CONCRETE.
4. DRIVEWAY CEMENT CONCRETE DEPTH SHALL BE A MINIMUM OF 6" AND PLACED ON COMPACTED GRADE.
5. CONCRETE SHALL BE COMMERCIAL CLASS CONCRETE PER WSDOT/APWA SPECIFICATIONS.
6. CLEAN AND EDGE ALL JOINTS.

Port ORCHARD Est. 1890

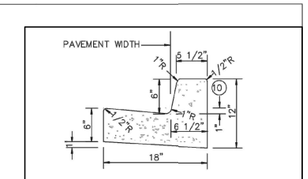
DRIVEWAYS B
RESIDENTIAL DRIVEWAY

DRAWN BY	IDS
DATE	5/31/2019
SCALE	NTS
DRAWING NUMBER	321

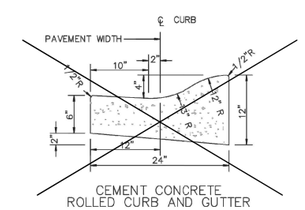
6 RESIDENTIAL DRIVEWAY
NOT TO SCALE C.O.P.O. STD DETAIL 321

NOTES:

1. CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION. (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
2. ALL CONCRETE SHALL BE COMMERCIAL CLASS PER WSDOT/APWA SPECIFICATIONS.
3. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
4. FULL DEPTH EXPANSION JOINTS CONSISTING OF 3/8 INCH MINIMUM PREMOLDED JOINT MATERIAL SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 20 FEET.
5. CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
6. ALL JOINTS SHALL BE CLEAN AND EDGED.
7. FINISH SHALL BE A LIGHT BROOM FINISH.
8. FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.
9. SUBGRADE COMPACTION FOR CURBS AND GUTTERS SHALL MEET A MINIMUM 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH SEC. 2-03.3(14) OF THE WSDOT/APWA SPECIFICATIONS.



CEMENT CONCRETE VERTICAL CURB AND GUTTER



CEMENT CONCRETE ROLLED CURB AND GUTTER

Port ORCHARD Est. 1890

CURB AND GUTTER A
CEMENT CONCRETE CURB AND GUTTER

DRAWN BY	IDS
DATE	1/29/2019
SCALE	NTS
DRAWING NUMBER	300

7 CEMENT CONCRETE CURB AND GUTTER
NOT TO SCALE C.O.P.O. STD DETAIL 300

REVISION	DESCRIPTION	DATE	BY

CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
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JEREMY F. HAUG STATE OF WASHINGTON 38348 REGISTERED PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: NOTES & DETAILS

OVERLOOK APARTMENTS PHASE II

CLIENT: OLAA, LLC
15234 SE 366TH PLACE
AUBURN, WA 98092

CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12

PROJECT: 16-300
DWG NAME: 16-300-C

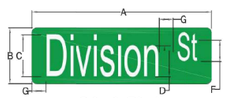
SHEET	REV.
OS6	2

OVERLOOK APARTMENTS PHASE II

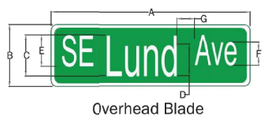
A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

6-Inch Blade (Private Road)

6-Inch Blade



8-Inch Blade



Overhead Blade

Port ORCHARD Est. 1890	STREET SIGN DETAIL PAGE 1 OF 2
DRAWN BY	IDS
DATE	2/1/2019
SCALE	NTS
DRAWING NUMBER	501A

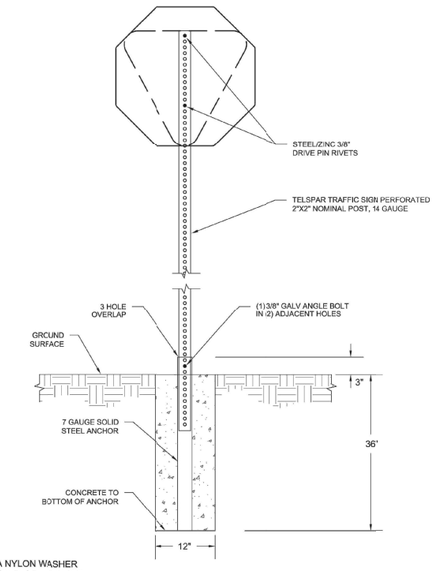
1 STREET SIGN DETAIL 1
NOT TO SCALE C.O.P.O. STD DETAIL 501A

	6-Inch Blade (Private)	6-Inch Blade	8-Inch Blade	12-Inch Blade	Overhead Blade
A	VARIES 48" MAX.	VARIES 48" MAX.	VARIES 48" MAX.	VARIES	VARIES
B	6"	6"	8"	12"	18"
C	4"	4"	6"	8"	12"
D	3"	3"	4.5"	6"	9"
E	3"	3"	3"	6"	9"
F	2.25"	2.25"	3"	4"	6.75"
G	2"	2"	2"	3"	5"

NOTES:
1. SIGN SHALL BE SUBMITTED AND APPROVED BY PUBLIC WORKS DIRECTOR OR DESIGNEE PRIOR TO FABRICATION.
2. SIGN SHALL BE MADE FROM 0.125" ALUMINUM AND HAVE AVERY OR 3M HIP (TYPE III/IV) SHEETING.
3. SIGNS SHALL HAVE STANDARD RADIUS CORNERS WITH NO HOLES.
4. SIGNS SHALL BE GREEN BACKGROUND WITH WHITE LETTERS FOR CITY OWNED STREETS.
5. SIGNS SHALL BE BROWN BACKGROUND WITH WHITE LETTERS AND MARKED "PVT" FOR PRIVATE STREETS.
6. SIGNS SHALL NOT HAVE A BORDER UNLESS THEY ARE AN OVERHEAD MOUNTED SIGN.
7. SIGNS SHALL BE DOUBLE SIDED.
8. LETTERING SHALL BE HIGHWAY SERIES C GOTHIC.
9. OVERHEAD MOUNTED SIGNS SHALL HAVE A 1-INCH WHITE BORDER WITH 2" MAX. SPACING TO TEXT FROM BORDER.
10. STREET NAMES SHALL HAVE AN UPPER CASE FIRST LETTER FOLLOWED BY LOWER CASE LETTERS.

Port ORCHARD Est. 1890	STREET SIGN DETAIL PAGE 2 OF 2
DRAWN BY	IDS
DATE	1/30/2019
SCALE	NTS
DRAWING NUMBER	501B

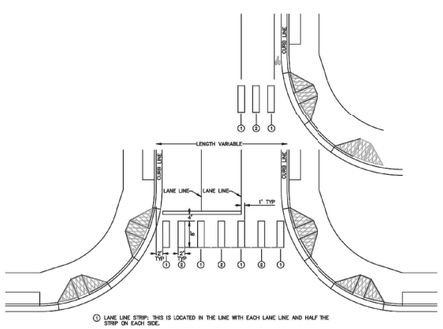
2 STREET SIGN DETAIL 2
NOT TO SCALE C.O.P.O. STD DETAIL 501B



NOTE:
INSTALL A NYLON WASHER WHEN SIGN FACE HAS TYPE III, IV, OR IX SHEETING

Port ORCHARD Est. 1890	STREET SIGNS STREET SIGN POST DETAIL
DRAWN BY	IDS
DATE	2/21/2019
SCALE	NTS
DRAWING NUMBER	500

3 STREET SIGN POST DETAIL
NOT TO SCALE C.O.P.O. STD DETAIL 500

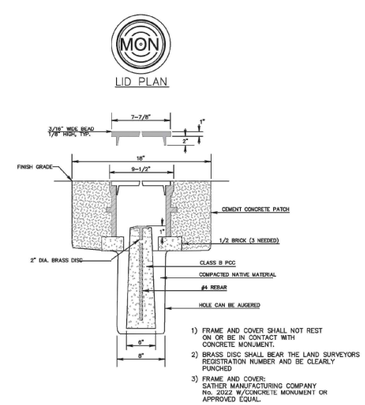


NOTES
DURA STRIPE MATERIALS SHALL BE USED UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

ALL NEW MID BLOCK CROSSWALKS SHALL BE LAYED OUT AS ABOVE AND PROVIDE SUPPLEMENTAL SIGNING CONSISTENT WITH N.U.T.C.D. AND AS DIRECTED BY THE CITY ENGINEER.

Port ORCHARD Est. 1890	MARKINGS H TYPICAL CROSSWALK STRIPING
DRAWN BY	IDS
DATE	1/30/2019
SCALE	NTS
DRAWING NUMBER	427

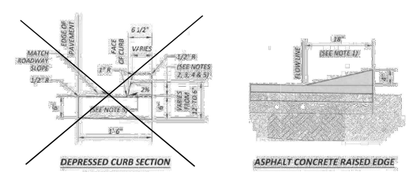
4 TYPICAL CROSSWALK STRIPING
NOT TO SCALE C.O.P.O. STD DETAIL 427

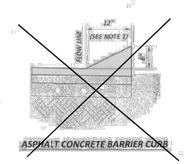


1) FRAME AND COVER SHALL NOT REST ON OR BE IN CONTACT WITH CONCRETE MONUMENT.
2) BRASS DISC SHALL BEAR THE LAND SURVEYORS REGISTRATION NUMBER AND BE CLEARLY PUNCHED
3) FRAME AND COVER: SATHER MANUFACTURING COMPANY No. 2022 W/CONCRETE MONUMENT OR APPROVED EQUAL.

Port ORCHARD Est. 1890	MONUMENT A SURVEY CONTROL MONUMENT
DRAWN BY	IDS
DATE	1/31/2019
SCALE	NTS
DRAWING NUMBER	460

5 SURVEY CONTROL MONUMENT
NOT TO SCALE C.O.P.O. STD DETAIL 460





NOTES:
1) RAISED PORTION SHALL BE HOT MIX ASPHALT CONSTRUCTED INTEGRALLY WITH ROAD PAVEMENT.
2) CURB HEIGHT VARIES FROM 6" TO 6", MAINTAIN 1%-5% SLOPE ON SIDE OF CURB.
3) CURB SHALL BE FLUSH WITH GUTTER PAN AT CURB RAMP ENTRANCE.
4) CURB SHALL BE 3" IN HEIGHT FOR EMERGENCY VEHICLE TURNAROUND IN SMALL LOT DEVELOPMENTS ONLY.
5) 1/2" VERTICAL LIP AT DRIVEWAY APPROACH. 1" VERTICAL LIP AT REVERSE GRADE APPROACH.
6) CURB CANNOT BE PERVIOUS MATERIAL.
7) CEMENT CONCRETE ROLLED CURB USE IS ONLY ALLOWED FOR MAINTENANCE VEHICLES DRIVEWAYS AND WHEN THERE ARE SHORT SEGMENTS OF CURBING DUE TO DRIVEWAY SPACING IN SMALL LOT DEVELOPMENTS.

6 ASPHALT WEDGE CURB
NOT TO SCALE

REVISION	DESCRIPTION	DATE	BY

CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
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JEREMY F. HAUG STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: NOTES & DETAILS

OVERLOOK APARTMENTS PHASE II

CLIENT: OLAA, LLC
15234 SE 366TH PLACE
AUBURN, WA 98092
CONTACT: MARK NORDLIE
PHONE: (253) 255-7624

DESIGNER: K. ROSE
ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12

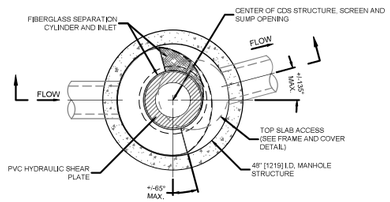
PROJECT: 16-300
DWG NAME: 16-300-C

SHEET	REV.
OS7	2

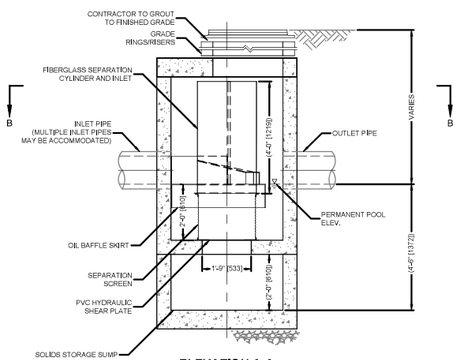
32 OF 44

OVERLOOK APARTMENTS PHASE II

A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

CDS2015–4–C DESIGN NOTES

THE STANDARD ########## CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			
PEAK FLOW RATE (CFS OR L/s)			
RETURN PERIOD OF PEAK FLOW (YRS)			
SCREEN APERTURE (2400 OR 4700)			
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
RIM ELEVATION			
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
NOTES/SPECIAL REQUIREMENTS: * PER ENGINEER OF RECORD			

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
800-338-1122 513-645-7000 513-645-7993 FAX
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

CDS2015-4-C
INLINE CDS
STANDARD DETAIL

1 INLINE CDS STANDARD DETAIL
NOT TO SCALE — CONTECH STD DETAIL

REVISION	DESCRIPTION	DATE	BY

CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
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JEREMY F. HAUG — STATE OF WASHINGTON — 40544 — PROFESSIONAL ENGINEER
April 12, 2021

SHEET TITLE: NOTES & DETAILS

OVERLOOK APARTMENTS PHASE II

CLIENT: OLAA, LLC
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AUBURN, WA 98092

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ENGINEER: J. HAUG
DRAWN: B. MORRIS
S 30 T 24N R 2E WM
DATE: 2020.02.14
REVISED: 2021.04.12

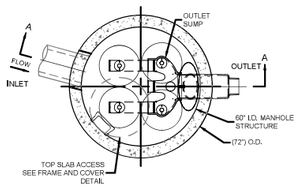
PROJECT: 16-300
DWG NAME: 16-300-C

SHEET	REV.
OS8	2
33 OF 44	

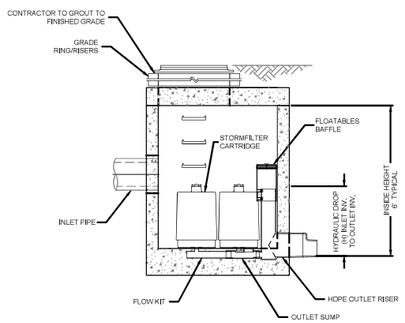
OVERLOOK APARTMENTS PHASE II

A PORTION OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 24 NORTH, RANGE 2 EAST W.M.
CITY OF PORT ORCHARD, KITSAP COUNTY, WASHINGTON

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 41A



SECTION A-A

STORMFILTER DESIGN NOTES

STORMFILTER TREATMENTCAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (4). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 4 CARTRIDGES. .060" MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS. IF THE SITE CONDITIONS EXCEED 1.0 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"		18"		LOW DROP	
RECOMMENDED HYDRAULIC DROP (H)	3.05'		2.3'		1.8'	
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10	5

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			ID
WATER QUALITY FLOW RATE (cfs)			WQFLOW
PEAK FLOW RATE (cfs)			PEAK
RETURN PERIOD OF PEAK FLOW (yrs)			RETURN
# OF CARTRIDGES REQUIRED			NUM
CARTRIDGE FLOW RATE			CART
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)			MEDIA
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	ELEV	MATERIAL	DIAM
INLET PIPE #2	ELEV	MATERIAL	DIAM
OUTLET PIPE	ELEV	MATERIAL	DIAM
RIM ELEVATION			RIMELEV
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		WIDTH	HEIGHT
NOTES/SPECIAL REQUIREMENTS			
SEE STORM REPORT			
* PER ENGINEER OF RECORD			

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0 - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 39 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
5. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES, CONTRACTOR TO REMOVE THE 8 INCH OUTLET STUB AT MOLDED IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
6. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

CONTECH ENGINEERED SOLUTIONS LLC
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SFMH60
STORMFILTER
STANDARD DETAIL

1 SFMH60 STORMFILTER STANDARD DETAIL
NOT TO SCALE CONTECH STD DETAIL

REVISION	DESCRIPTION	DATE	BY

CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS~SURVEYORS~LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourllc.com

JEREMY F. HAUG STATE OF WASHINGTON 40544 PROFESSIONAL ENGINEER
April 12, 2021

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OVERLOOK APARTMENTS PHASE II
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PROJECT: 16-300
DWG NAME: 16-300-C

SHEET: OS9
34 OF 44
REV. 2