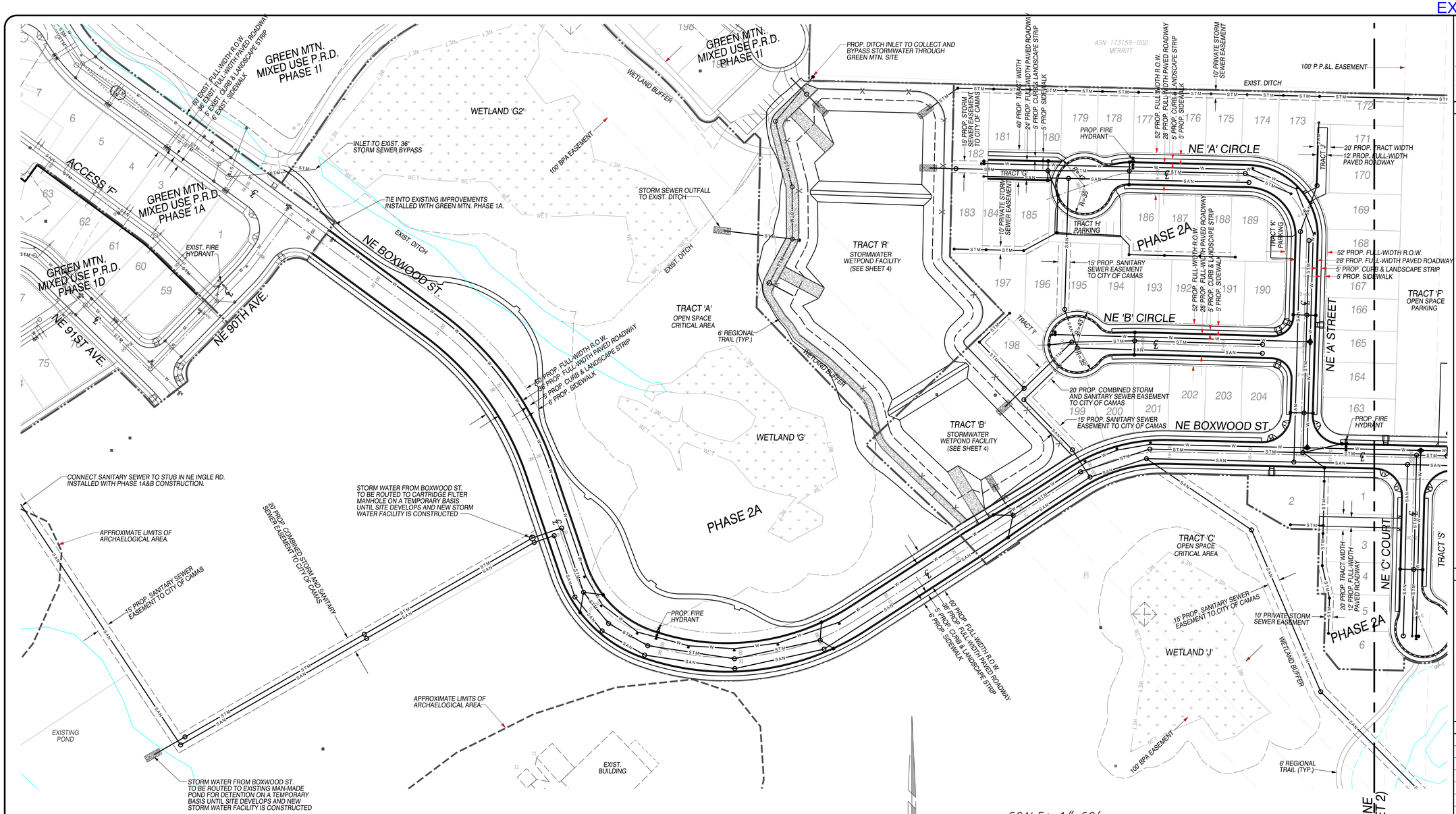
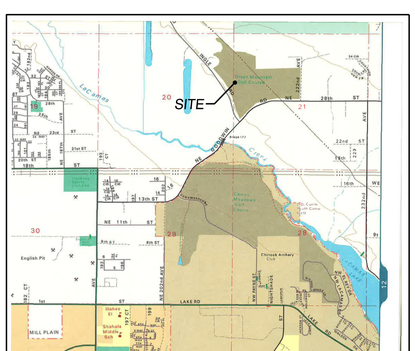
EXHIBIT 8A

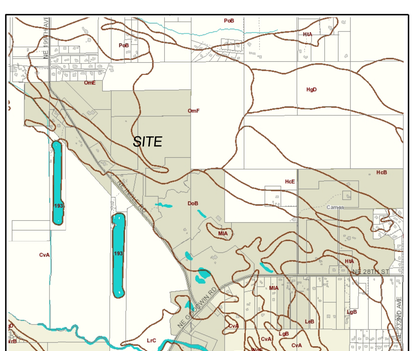


SCALE: 1"=60'

-60 0 60 120



VICINITY MAP
NTS



SOILS MAP
NTS

LEGEND

- PERIMETER OF SITE
- RIGHT-OF-WAY LINE
- CENTERLINE OF ROAD
- FACE OF CURB
- LOT LINE
- POD BOUNDARY
- EASEMENT LINE
- STM — STORM SEWER LINE
- STM — EXIST STORM SEWER
- SAN — SANITARY SEWER LINE
- SAN — EXIST SANITARY SEWER
- W — WATER SERVICE LINE
- W — EXIST WATER LINE
- MANHOLE
- CLEAN OUT
- CATCH BASIN
- FIRE HYDRANT ASSEMBLY
- THRUST BLOCK
- WATER SERVICE ASSEMBLY
- BF — BACKFLOW ASSEMBLY
- WATER VALVE AND BOX
- BLOW-OFF ASSEMBLY

PRELIMINARY UTILITY NOTES

STORM SEWER:

1) STORMWATER QUALITY AND QUANTITY CONTROL TO BE ACHIEVED USING WETPONDS WITH DETENTION ABOVE THE WETPOOL. STORMWATER FROM THE DEVELOPMENT TO BE DISCHARGED VIA OUTFALLS TO THE EXISTING WETLANDS/STREAM WEST OF NE INGLE ROAD.

2) WETPONDS HAVE BEEN SIZED TO MEET THE PHOSPHORUS CONTROL REQUIREMENTS FOR THE LACAMAS WATER SHED, AS SPECIFIED BY THE CITY OF CAMAS AND THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

3) THE PROPOSED STORMWATER FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED, WITH ACCESS AND INSPECTION EASEMENTS TO BE DEDICATED TO THE CITY OF CAMAS AS REQUIRED.

SANITARY:

1) SANITARY SEWER SERVICE WILL BE PROVIDED BY CITY OF CAMAS.

2) SANITARY SEWER WILL BE A GRAVITY SEWER. NEW SEWER MAIN WILL BE EXTENDED OFFSITE TO NEW PUMP STATION LOCATION ON NE GOODWIN RD. IT IS ASSUMED THAT CITY IMPROVEMENTS WILL BE COMPLETED PRIOR TO CONSTRUCTION OF PHASE 2 SO TEMPORARY SEPTIC TANKS ARE NOT PROPOSED AT THIS TIME.

3) SANITARY SEWER EASEMENTS WILL BE DEDICATED TO CITY OF CAMAS AS REQUIRED.

WATER:

1) WATER SERVICE WILL BE PROVIDED BY CITY OF CAMAS.

2) A NEW 18" AND 8" DIP WATER MAINS WILL BE LOOPED THROUGH THE SITE TO PROVIDE WATER AND FIRE SERVICE TO THE PROPOSED DEVELOPMENT. CONNECTIONS WILL BE MADE TO THE EXISTING 8" DIP MAINS LOCATED IN NE INGLE RD. AND NE GOODWIN RD.

3) FIRE HYDRANTS WILL BE LOCATED AS SHOWN, OR AS DIRECTED BY THE FIRE MARSHAL.

4) WATER EASEMENTS WILL BE DEDICATED TO CITY OF CAMAS AS REQUIRED.

EROSION CONTROL:

1) EROSION CONTROL BMP'S WILL BE DESIGNED DURING FINAL DESIGN PER THE CITY OF CAMAS DESIGN STANDARDS MANUAL.

J:\data\8000\8900\8930\8938\Engineering\Prelim\Phase 2\8938.e.Border1.Prelim.Ph2 Utility West.dgn
M:\MicroStation V8\pen tables\OCE table setup\OCE street.util.tbl

CLIENT:
EMERALD SUMMIT REAL ESTATE
31441 SANTA MARGARITA PARKWAY,
SUITE A-144
RANCHO SANTA MARGARITA, CA 92688

ATTN: RALPH EMERSON
PH: (714) 296-5326
EMAIL:
remerson@bluestonecommunities.com

PRELIMINARY UTILITY PLAN (WEST) FOR: GREEN MOUNTAIN MIXED USE P.R.D. PHASE 2

OLSON ENGINEERING INC.
LAND SURVEYORS
ENGINEERS
222 E. EVERGREEN, VANCOUVER, WA 98660
360-696-1355
503-289-9908

PETER A. TUCK
STATE OF WASHINGTON
31817
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY
11/1/2016

CHANGES / REVISIONS	
DESCRIPTION:	DATE:

DESIGNED: RWP
DRAWN: RWP
CHECKED: PAT
DATE: NOVEMBER 2016
SCALE: 1"=60'

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GREEN MOUNTAIN MIXED USE P.R.D. PHASE 2

JOB NO.: 8938.02.01

SHEET