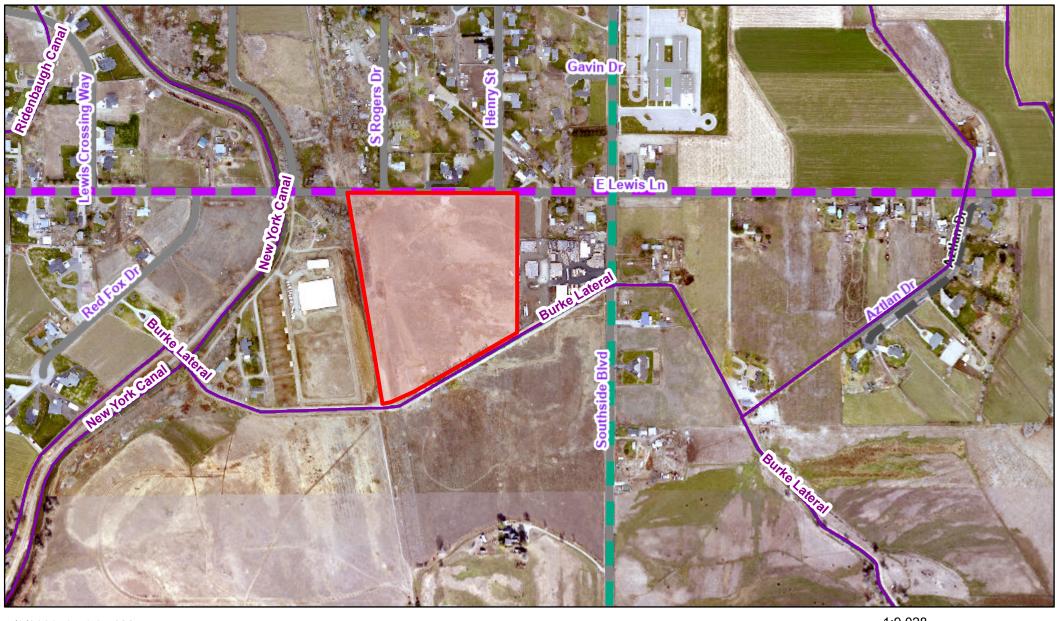
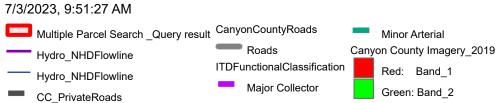
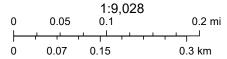
Canyon County, ID Web Map







Bureau of Land Management, State of Oregon, State of Oregon DOT, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

MASTER APPLICATION

CANYON COUNTY DEVELOPMENT SERVICES DEPARTMENT

111 North 11th Avenue, #140, Caldwell, ID 83605

www.canyonco.org/dsd.aspx Phone: 208-454-7458 Fax: 208-454-6633



| | OWNER NAME: Taylor Merrill / OE Development LLC |
|--------------------------|--|
| PROPERTY | MAILING ADDRESS: PO Box 344, Meridian, ID 83680 |
| OWNER | PHONE: EMAIL: taylor@westparkco.com |
| I consent to this | application and allow DSD staff / Commissioners to enter the property for site inspections. If owner(s) are a business entity, please include business documents, including those that indicate the person(s) who are eligible to sign. Date: 5-19-22 |
| (AGENT) | CONTACT NAME: Alec Egurrola |
| ARCHITECT | COMPANY NAME: T-O Engineers |
| BUILDER | MAILING ADDRESS: 332 N Broadmore Way, Nampa, ID 83687 |
| | PHONE:(208)442-6300 EMAIL: aegurrola@to-engineers.com |
| | STREET ADDRESS: 0 Southside Blvd, Nampa |
| | PARCEL #: R2955201400 LOT SIZE/AREA: 20.48 |
| SITE INFO | LOT: BLOCK: SUBDIVISION: |
| | QUARTER: NE 1/4 SE 1/4 SECTION: 14 TOWNSHIP: 2N RANGE: 2W |
| | ZONING DISTRICT: R-1 FLOODZONE (YES/NO): No |
| HEARING LEVEL APPS | CONDITIONAL USE COMP PLAN AMENDMENT CONDITIONAL REZONE ZONING AMENDMENT (REZONE) DEV. AGREEMENT MODIFICATION VARIANCE > 33% MINOR REPLAT VACATION APPEAL SHORT PLAT SUBDIVISION PRELIMINARY PLAT SUBDIVISION FINAL PLAT SUBDIVISION |
| DIRECTORS DECISION APPS | ADMINISTRATIVE LAND DIVISIONEASEMENT REDUCTIONSIGN PERMITPROPERTY BOUNDARY ADJUSTMENTHOME BUSINESSVARIANCE 33% >PRIVATE ROAD NAMETEMPORARY USEDAY CAREOTHER |
| CASE NUMB | ER: 5D2022-0027 DATE RECEIVED: 5/23/22 |
| | 1: Maddy Vander Veen APPLICATION FEE: \$1440 CK MO CC CASH |



Consulting Engineers, Surveyors and Planners

332 N. BROADMORE WAY NAMPA, IDAHO 83687 PHONE: (208) 442-6300 FAX: (208) 466-0944

Attached

Prints

☐ Change

NO.

1389

THESE ARE TRANSMITTED as checked below

For approval

For your use

As requested

FOR BIDS DUE

REMARKS:

RECEIVED BY:

TO: Canyon County **Development Services** 111 N 11th Ave., Room 140 Caldwell, ID 83605

WE ARE SENDING

Shop drawings

Copy of letter

DATE

05-23-22

COPIES

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| wars and Dlannars | Date | Job No. |
| yors and Planners | May 23, 2022 | 220027 |
| RE WAY 83687 2-6300 | ATTENTION Dan Lister | |
| 0944 | RE: Osprey Estates Subdivision No.2 | |
| Attached 🗆 Und | ler separate cover | the following: |
| Prints 🗵 Plan | s 🗆 Samples | ☐ Specifications |
| Change | | |
| Control of the same of the sam | DESCRIPTION | |
| Full Sized Set Constructi | on Drawings | |
| Master Application & Fi | nal Plat Checklist | |
| Storm Drainage Report | | |
| Check for \$1,440.00 | | |
| Electronic copy of PDF 8 | & CAD File of CDs | |
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| | SIGNED: | |

FINAL PLAT SUBMITTAL LIST

CANYON COUNTY DEVELOPMENT SERVICES DEPARTMENT

111 North 11th Avenue, #310, Caldwell, ID 83605

zoninginfo@canyoncounty.id.gov | Phone: 208-454-7458 | Fax: 208-454-6633



THE FOLLOWING ITEMS MUST BE SUBMITTED WITH THIS CHECKLIST:

| M | Master Application completed and signed |
|---|---|
| M | Copy of Final Plat* |
| D | Final Drainage Plan*, if applicable |
| M | Final Irrigation Plan*, if applicable |
| M | Final Grading Plan*, if applicable |
| M | Construction Drawings for all required improvements*, if applicable CCZO §07-17-29(3) |
| M | \$930 +\$10/lot +\$100(if in an area of impact) non-refundable fee |

^{*} Submittal must include a full-size paper copy, an electronic copy in PDF format, and the CAD file (if a CAD file exists).

NOTES:

- 1. Any conditions of approval given during the rezoning or preliminary plat process, if applicable, must be addressed as part of submittal materials to ensure condition compliance is met.
- 2. After the plat is reviewed and found to be in compliance, an additional five (5) paper copies of the final plat may be required to be submitted.
- 3. Evidence that all improvements have been completed or bonded per CCZO § 07-17-29(4) must be submitted after construction drawing approval and before final plat signature by the Board of County Commissioners.

STORM DRAINAGE REPORT

for

OSPREY ESTATES SUBDIVISION NO.2

NAMPA, IDAHO

Prepared for:

The WestPark Company, Inc. PO Box 344 Meridian, ID 83680 208-888-9940

Prepared By:



T-O ENGINEERS

332 N. Broadmore Way Nampa, ID 83687 208-442-6300

Date Prepared: May 20, 2022

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| | 1.2 | Soil Conditions | 2 |
| 2. | Desig | gn Criteria | 2 |
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Figure 1: Proposed Drainage Plan

Figure 2: Basin Map

Appendices

Appendix A: Basin and Storage Calculations

Appendix B: Conveyance Pipe, Inlet, and SGT Calculations

Appendix C: Project Geotechnical Report Excerpts

1. INTRODUCTION

This report is prepared to support the storm drain system design for the Osprey Estates Subdivision Phase 2 (Project) by The WestPark Company, Inc. (Developer). The project is subject to the storm water management requirements of the City of Nampa (City) and the storm system design is based on the City's 2017 Drainage and Storm Water Design Policy.

1.1 Existing Conditions

The property has historically been used for agriculture. Currently (predevelopment), all drainage flows to a low point near the northwest corner of the property included in Phase 2. A culvert conveys the runoff to the neighboring property, which eventually then flows westward along Lewis Lane. The runoff includes irrigation discharge from a neighboring property and a culvert originating north of Lewis Lane.

1.2 Soil Conditions

The Native Alluvial soils generally encountered consist of surficial layers of silts and sandy silts, underlain by sandy silts, silty sands, and basalt rock. Percolation tests were conducted by GeoTek in August 2021 post blasting the basalt during Phase 1 construction at the proposed storage facility locations. The infiltration rates varied between 4.8 - 24+ in/hr. A percolation rate of 4 in/hr was used for design and will be field verified during construction at the proposed facility locations for Phase 2.

2. DESIGN CRITERIA

The following design criteria were used in the preparation of this report and corresponding design calculations in accordance with the City of Nampa 2017 Drainage and Storm Water Design Policy for Site Development.

- The Rational Method is used for calculating peak runoff flow.
- Manning's Equation is used for calculating pipe capacity.
- The Modified Rational Method is used for calculating storm water storage volumes.
- The primary conveyance system (gutters, drain inlets, underground pipes) is sized for the 50-year storm event.
- The secondary conveyance system (streets and ditches) is sized for the 100-year storm event.
- Retention storage facilities with overflow are sized for the 100-year storm event, with the maximum accumulated volume over a 24-hour period.
- A site-specific weighted runoff coefficient has been calculated for each drainage area.
- Rainfall intensities are taken from Exhibit A of the City of Nampa 2017 Drainage and Storm Water Design Policy.
- Pre-treatment in the form of Sand & Grease Traps shall be provided upstream of storage basins.
 The baffles shall be sized to limit the throat velocity to less than 0.5 feet per second at the 50-year design flow and will pass larger flows.
- A minimum of 3-feet separation shall be maintained between the seasonal high groundwater level and the bottom of detention facilities and percolation beds. Bedrock shall be treated as if it is groundwater.
- A minimum 3-ft thick layer of filter sand shall be provided at the bottom of the storage facilities.



APPENDIX A STORAGE FACILITY CALCULATIONS

Table 1: Basin A & Retention Basin A - Volume Calculations - Modified Rational Method

| Darinage Basin Design Info Design Storm 100 year C-yalue 15.76 acres 15.76 acres 15.76 acres 100 year Allowable Release Rate 0.00 cfs C-yalue 0.50 In Mater Quality Volume Info Mater Quality Volume 5,721 cf May Discharge From Orifice 0.00 cfs 0.00 in/h Measured Perc Rate 4 | -7 | -64808 | 32970 | -31838 | -27685 | -0.32 | 1.03 | 0.00 | 0.71 | 15.76 | 0.09 | 1440 |
|--|------------------------------------|------------------|---------------------------|----------------|---|------------------------|---|---------------------------------|-------------------------------|-----------------|-------------------------------|-------------------|
| Drainage Basin Design Info Design Storm 100 year 15.76 acres 15.77 acres 15.76 acres 1 | 1 | -29315 | 32970 | 3655 | 3178 | 0.07 | 1.03 | 0.00 | 1.10 | 15.76 | 0.14 | 720 |
| Drainage Basin Design Info Design Storm Design Storm Dos Design Storm Dos Design Storm Dos Design Storm Dos Detention Retention Retent | 6 | -5696 | 32970 | 27274 | 23716 | 1.10 | 1.03 | 0.00 | 2.13 | 15.76 | 0.27 | 360 |
| Drainage Basin Design Info Design Storm Dougrar Dougrand Dougram | 7 | -1717 | 32970 | 31253 | 27177 | 2.52 | 1.03 | 0.00 | 3.55 | 15.76 | 0.45 | 180 |
| Drainage Basin Design Info Design Storm 100 year Storage From Drift Design Storm Storage From Drift Design Facility Design Facility Design Perc Rate Allowable Release Rate 0.00 cfs/acre Allowable Rateses Rate 0.00 cfs/acre Design Facility Design Perc Rate Allowable Discharge From Drift Design Perc Rate Allowable Percent Inchance Design Perc Rate Allowable Percent Inchance Design Perc Rate Allowable Percent Inchance Design Perc Rate Allowable Received From Drift Design Perc Rate Allowable Percent Inchance Design Perc Rate Allowable Desi | 7 | -390 | 32970 | 32580 | 28330 | 3.93 | 1.03 | 0.00 | 4.96 | 15.76 | 0.63 | 120 |
| Drainage Basin Design Info Design Storm 100 year Design Storm 15.76 acres 15.76 acres Allowable Release Rate 0.00 cfs/acre C-Value Design Storm Allowable Release Rate 0.00 cfs/acre Total Allowable Discharge Total Allowable Discharge 0.00 cfs/acre Total Allowable Discharge Total Allowable Discharge 0.00 cfs/acre Total Allowable Discharge Total Allowable Discharge Total Allowable Discharge 0.00 cfs/acre Total Allowable Discharge 0.00 cfs/acre Total Allowable Discharge | 7 | -1347 | 32970 | 31623 | 27498 | 7.64 | 1.03 | 0.00 | 8.67 | 15.76 | 1.10 | 60 |
| Darianage Basin Design Info Doly ear | 6 | -5740 | 32970 | 27230 | 23678 | 13.15 | 1.03 | 0.00 | 14.18 | 15.76 | 1.80 | 30 |
| Drainage Basin Design Info 100 year 15.76 acres 1 | 4 | -12831 | 32970 | 20139 | 17513 | 19.46 | 1.03 | 0.00 | 20.49 | 15.76 | 2.60 | 15 |
| Drainage Basin Design Info Design Storm Doug are Storage | 3 | -16825 | 32970 | 16145 | 14039 | 23.40 | 1.03 | 0.00 | 24.43 | 15.76 | 3.10 | 10 |
| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Seepage Bed Info 11120 sf 11120 sf 394 lf Seepage Bed Percolation Area Storage Facility Design Volume Storage Facility Design Volume | Time to Percolate 90% (T_p) (hr) | The second lines | Available Storage (cf) | | Runoff Volume (V _R) (cf) | Net Flow Rate (cfs) | Perc Flow Rate (Q _R) (cfs) | Allowable Discharge (cfs) | Flow Rate Q = CIA (cfs) | Area (acres) | 100 year Intensity (in/hr) | Duration (min) |
| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate 5,721 cf Design Perc Rate Perc Flow Rate 32,580 cf 101% 1120 sf Seepage Bed Percolation Area Storage Volume w/ 40% Voids | | | | | | Volume | acility Design | Storage F | | | | |
| Allow Release Info Detention/ Retention/ Retention Facilii Reter 15.76 acres 0.50 Detention/ Retention Facilii Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate 32,970 cf 32,970 cf 32,580 cf 101% 1120 sf Seepage Bed Info Length 11120 sf Seepage Bed Percolation Area Storage Volume w/ 40% Voids | | | - | - | - | | | | | | | |
| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 O.50 Percolation Rate Info May Discharge From Orifice Percolation Rate Info May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Seepage Bed Info Length 11120 sf Seepage Bed Percolation Area | | 4 | 0 | | w/ 40% Voids | rage Volume | Sto | | | | | |
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| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate 32,970 cf 32,580 cf 101% Allow Release Info May Discharge From Orifice Percolation Rate Info Seepage Bed Info Seepage Bed Info Seepage Bed Info Sand Height Width | | ft | 0 | | Length | | | | 15% | uired | Percent increase requ | |
| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate 5,721 cf Design Perc Rate Perc Flow Rate 3.5 ft 32,970 cf 32,580 cf Seepage Bed Info Effective Rock Height Sand Height | | ft ft | 0 | | Width | | | | 101% | | Percent retained | |
| Allow Release Info Detention/ Retention Facili* Reter 15.76 acres 0.50 Detention/ Retention Facili* Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Seepage Bed Info Seepage Bed Info Effective Rock Height | | # | 0 | | Sand Height | | | cf | 32,580 | | Total runoff volume | |
| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate 5,721 cf Design Perc Rate Perc Flow Rate Perc Flow Rate Seepage Bed Info Seepage Bed Info | | # | 0 | | e Rock Height | Effectiv | | cf | 32,970 | | Pond Volume | |
| Allow Release Info Detention/ Retention Facili Reter 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate 5,721 cf Design Perc Rate Perc Flow Rate | | | | Info | Seepage Bed | 1 | | Ŧ | 3.5 | | Max depth | |
| Allow Release Info Detention / Retention Facili* Retention / Rete | | | | | | | | | | | Pond/Swale Info | |
| Allow Release Info 100 year 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info 0.2 in 5,721 cf Design Perc Rate Allow Release Info Detention Rate Info Measured Perc Rate Safety Factor Design Perc Rate | | cfs | 0 | е | Perc Flow Rate | | | | | | | |
| Allow Release Info 100 year 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor | | in/hr | 4.00 | ate | Design Perc R. | | | | | | | |
| Allow Release Info 100 year 15.76 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate | | | т- | | Safety Factor | | | cf | 5,721 | Te | Water Quality Volum | |
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| In Design Info Allow Release Info π 100 year 15.76 acres Allowable Release Rate 0.50 Total Allowable Discharge May Discharge From Orifice | | | | ate Info | Percolation R | | • | | | ne Info | Water Quality Volum | |
| m 100 year Detention/ Retention Facili Reter Allowable Release Rate 0.50 Total Allowable Discharge | | cfs | | e From Orifice | May Discharge | | | | | | | |
| n 100 year Allowable Release Rate Allowable Release Rate | | cfs | 0.00 | le Discharge | Total Allowab | | | | 0.50 | | C-Value | |
| 100 year Allow Release Info Detention/ Retention Facili | | cfs/acre | 0.00 | ease Rate | Allowable Rel | | | acres | 15.76 | | Runoff Area | |
| | | | | tention Facili | Detention/ Re | | | | 100 year | | Design Storm | |
| | | | | Info | Allow Release | | 6 | | | n Info | Drainage Basin Desig | |

Table 1: Seepage Window Lot 10, Block 2 - Volume Calculations - Modified Rational Method

| 1440 | 720 | 360 | 180 | 120 | 60 | 30 | 15 | 10 | Duration (min) | | | | | | | | | | | | | | | | | | | | |
|-------|-------|------|------|------|------|------|------|------|--|--------------------------------|-----------------------------|------------------------------|-----------------------|---------------------------|------------------|---------------------|------------------------------|------------------|-----------------|----------------|------------------|----------------------|------------------------------|---------------------------|----------------------------|---------------------------|------------------------|-----------------------------|----------------------------|
| 0.09 | 0.14 | 0.27 | 0.45 | 0.63 | 1.10 | 1.80 | 2.60 | 3.10 | 100 year Intensity (in/hr) | | | | Pond Perolcation Area | Percent increase required | Percent retained | Total runoff volume | Pond Volume | Max depth | Pond/Swale Info | | | Water Quality Volume | Water Quality Rainfall Depth | Water Quality Volume Info | | C-Value | Runoff Area | Design Storm | Drainage Basin Design Info |
| 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | Area (acres) | | | | ea | luired | | | | | | | | ne | all Depth | ne Info | | | | | gn Info |
| 0.02 | 0.03 | 0.05 | 0.09 | 0.13 | 0.22 | 0.36 | 0.52 | 0.62 | Flow Rate Q = CIA (cfs) | | | | 0 | 0 | 0 | 0 | 0 | 0 ft | | | | 145 cf | 0.2 in | | | 0.50 | 0.40 | 100 year | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Allowable Discharge (cfs) | Storage F | | | 0 sf | | | 0 cf | 0 cf | Ħ | | | | cf | ä | | | | 0.40 acres | | |
| 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | Perc Flow Rate (Q _R) (cfs) | Storage Facility Design Volume | St | Se | | | | | | | 1 | | | | | | | | | | |
| -0.02 | -0.01 | 0.02 | 0.05 | 0.09 | 0.18 | 0.32 | 0.48 | 0.58 | Net Flow Rate (cfs) | Volume | orage Volume | epage Bed Pe | | | | | Effecti | | | | | | | | | | | | |
| -1805 | -470 | 326 | 552 | 627 | 652 | 578 | 433 | 349 | Runoff Volume (V _R) (cf) | STATE STATE OF | Storage Volume w/ 40% Voids | Seepage Bed Percolation Area | Pipe Dia | Length | Width | Sand Height | Effective Rock Height | Seepage Bed Info | | Perc Flow Rate | Design Perc Rate | Safety Factor | Measured Perc Rate | Percolation Rate Info | May Discharg | Total Allowable Discharge | Allowable Release Rate | Detention/ Re | Allow Release Info |
| -2076 | -541 | 375 | 635 | 721 | 750 | 665 | 498 | 401 | 115% Req'd for Sediment Storage (cf) | | | | | | | | | Info | | te | ate | | rc Rate | ate Info | May Discharge From Orifice | le Discharge | ease Rate | Detention/ Retention Facili | e Info |
| 756 | 756 | 756 | 756 | 756 | 756 | 756 | 756 | 756 | Available Storage (cf) | | 756 cf | 420 | 0 | 105 ft | 4 | 0 | 4.5 ft | | | 0.04 cfs | 4.00 | 1 | 4 | | 0.00 cfs | 0.00 cfs | 0.00 | Reter | |
| -2832 | -1297 | -381 | -121 | -35 | -6 | -91 | -258 | -355 | Req | | cf. | Sf | # | Ŧ | Ŧ | ft | f | | | cfs | 4.00 in/hr | | 4 in/hr | | cfs | cfs | 0.00 cfs/acre | | |
| -13 | ٺ | 2 | 4 | 4 | 5 | 4 | 3 | 2 | Time to Percolate (T_p) (hr) | | | · leces | | | | - Control | | | | | | | | | | | | | * |

Table 1: Seepage Window Lot 11 & 12, Block 2 - Volume Calculations - Modified Rational Method

| 0.09 | 720 0.14 0.30 | 360 0.27 0.30 | 180 0.45 0.30 | 120 0.63 0.30 | 60 1.10 0.30 | 30 1.80 0.30 | 15 2.60 0.30 | 10 3.10 0.30 | Duration 100 year Intensity Area (min) (in/hr) (acres) | | | | | Pond Perolcation Area | Percent increase required | Percent retained | Total runoff volume | Pond Volume | Max depth | Pond/Swale Info | | | Water Quality Volume | Water Quality Rainfall Depth | Water Quality Volume Info | | C-Value | Runoff Area | Design Storm | Drainage Basin Design Info |
|-------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--|--------------------------------|--------------------|-----------------------|------------------------------|-----------------------|---------------------------|------------------|---------------------|------------------------------|------------------|-----------------|----------------|------------------|----------------------|------------------------------|---------------------------|----------------------------|---------------------------|------------------------|----------------------------|----------------------------|
| | 0 0.02 0.00 | 0 0.04 0.00 | 0 0.07 0.00 | 0 0.09 0.00 | 0 0.17 0.00 | | 0 0.39 0.00 | 0 0.47 0.00 | Flow Rate Allowable Q = CIA Discharge (cfs) (cfs) | Stora | | | | 0 sf | 0 | 0 | 0 cf | 0 cf | 0 ft | | | | 109 cf | 0.2 in | | | 0.50 | 0.30 acres | 100 year | |
| 0 0.03 | 0 0.03 | 0 0.03 | 0 0.03 | 0 0.03 | 0 0.03 | 0 0.03 | 0 0.03 | 0 0.03 | Perc Flow Rate (Q_R) (cfs) | Storage Facility Design Volume | U.S. | Stor | Seep | | | | | | | | | | | | | | | | | |
| -0.02 | -0.01 | 0.01 | 0.04 | 0.06 | 0.13 | 0.24 | 0.36 | 0.43 | Net Flow Rate Run (cfs) | /olume | abe a continue as/ | Storage Volume w/ 40% | Seepage Bed Percolation Area | | | | Sa | Effective Rock Height | See | | Per | Des | Safi | Me | Per | Ma | Tot | Allo | Det | Allo |
| -1642 -1888 | -497 -571 | 173 199 | 378 435 | 446 513 | 477 549 | 428 492 | 322 370 | 260 298 | Runoff Volume (V _R) (cf) Sediment Storage (cf) | | | Ang Voids | ation Area | Pipe Dia | Length | Width | nd Height | ock Height | Seepage Bed Info | | Perc Flow Rate | Design Perc Rate | Safety Factor | Measured Perc Rate | Percolation Rate Info | May Discharge From Orifice | Total Allowable Discharge | Allowable Release Rate | Detention/Retention Facili | Allow Release Info |
| 632 | 632 | 632 | 632 | 632 | 632 | 632 | 632 | 632 | Available Storage (cf) | | 000 | 637 cf | 351 sf | 0 ft | 78 | 4.5 ft | 0 ft | 4.5 ft | | | 0.03 cfs | 4.00 | 1 | 4 | | ice 0.00 cfs | 0.00 cfs | 0.00 | ili Retention | |
| -2520 | -1203 | -433 | -197 | -118 | -83 | -140 | -262 | -333 | Req'd Above Ground Storage | | Š | d. | sf | ft | # | ft | ft | ft | | | cfs | 4.00 in/hr | | 4 in/hr | | cfs | cfs | 0.00 cfs/acre | | |
| -14 | -4 | 1 | w | 4 | 4 | 4 | 3 | 2 | Time to Percolate (T_p) (hr) | | | | | | | | | | | | | | | | | | | | | |

Table 1: Seepage Windows Lot 13-20, Block2 - Volume Calculations - Modified Rational Method

| 100 year 0.28 acres 0.50 100 year 0.28 acres 0.50 102 cf 0 ft 0 cf 0 cf 0 cf 0 cf 0 of 0 sf Seepage Bed Per Storage Facility Design Volume Storage Facility Design Volume Area Q=CIA Discharge (Cfs) (| -13 | -2004 | 533 | -1471 | -1279 | -0.01 | 0.03 | 0.00 | 0.01 | 0.28 | 0.09 | 1440 |
|--|----------------------------------|-------------------------|---------------------------|----------------|---|------------------------|------------------------------|---------------------------------|-------------------------------|-----------------|-------------------------------|-------------------|
| 100 year | -53 | -921 | 533 | -388 | -337 | -0.01 | 0.03 | 0.00 | 0.02 | 0.28 | 0.14 | 720 |
| 100 year | 2 | -275 | 533 | 258 | 224 | 0.01 | 0.03 | 0.00 | 0.04 | 0.28 | 0.27 | 360 |
| 100 year | 4 | -91 | 533 | 442 | 384 | 0.04 | 0.03 | 0.00 | 0.06 | 0.28 | 0.45 | 180 |
| 100 year | 4 | -29 | 533 | 503 | 438 | 0.06 | 0.03 | 0.00 | 0.09 | 0.28 | 0.63 | 120 |
| 100 year | 5 | -9 | 533 | 524 | 456 | 0.13 | 0.03 | 0.00 | 0.15 | 0.28 | 1.10 | 60 |
| 100 year | 4 | -68 | 533 | 465 | 404 | 0.22 | 0.03 | 0.00 | 0.25 | 0.28 | 1.80 | 30 |
| 100 year | 3 | -184 | 533 | 348 | 303 | 0.34 | 0.03 | 0.00 | 0.36 | 0.28 | 2.60 | 15 |
| 100 year | 2 | -252 | 533 | 281 | 244 | 0.41 | 0.03 | 0.00 | 0.43 | 0.28 | 3.10 | 10 |
| 100 year 100 year 0.28 acres 0.50 Allowable Release Rate 0.50 Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate 0 of t Seepage Bed Info 0 of 0 sf Seepage Bed Percolation Area Storage Facility Design Volume Storage Facility Design Volume | Time to Percolate (T_p) (hr) | STREET, SQUARE, SQUARE, | Available Storage (cf) | | Runoff Volume (V _R) (cf) | Net Flow Rate (cfs) | Perc Flow Rate (Q_R) (cfs) | Allowable Discharge (cfs) | Flow Rate Q = CIA (cfs) | Area (acres) | 100 year Intensity (in/hr) | Duration (min) |
| 100 year 100 year 0.28 acres 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate 9 of Seepage Bed Info 0 of Effective Rock Height 0 of Uidth 0 of Seepage Bed Percolation Area Storage Volume w/ 40% Voids | | The second | | | | Volume | cility Design | Storage Fu | | | | |
| 100 year 100 year 0.28 acres 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate 102 cf Oft Ocf Seepage Bed Info Osf Effective Rock Height Oof Effective Rock Height Sand Height Seepage Bed Percolation Area Storage Volume w/ 40% Voids | | | | | | | | | | | | |
| 100 year 100 year 0.28 acres 0.50 Allowable Release Rate Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Massured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Perc Flow Rate Perc Flow Rate Perc Flow Rate 0 of Seepage Bed Info Length Pipe Dia Seepage Bed Percolation Area | | đ | 533 | | w/ 40% Voids | rage Volume | Stc | | | | | |
| 100 year 0.28 acres 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Perc Flow Rate Seepage Bed Info Effective Rock Height Sand Height Sand Height Length Pipe Dia | | sf | 296 | | rcolation Area | epage Bed Per | Sei | | | | | |
| 100 year 100 year 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Perc Flow Rate Perc Flow Rate Seepage Bed Info Undth Length | | ft | 0 | | Pipe Dia | | | sf | 0 | à | Pond Perolcation Area | |
| 100 year 100 year 0.28 acres 0.50 Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate 0 of 0 cf Seepage Bed Info Effective Rock Height Sand Height Width | | ft | 74 | | Length | | | | 0 | ired | Percent increase requ | |
| 100 year 100 year 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Perc Flow Rate Seepage Bed Info Effective Rock Height Sand Height | | # | 4 | | Width | | | | 0 | | Percent retained | |
| 100 year 100 year 0.28 acres 0.50 Detention/ Retention Facilic Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate 102 cf Design Perc Rate Perc Flow Rate | | ft | 0 | | Sand Height | | | cf | 0 | | Total runoff volume | |
| 100 year 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Perc Flow Rate Perc Flow Rate Seepage Bed Info | | ft ft | 4.5 | | e Rock Height | Effectiv | | cf | 0 | | Pond Volume | |
| 100 year 100 year 0.28 acres 0.50 Detention/ Retention Facili Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate Perc Flow Rate Perc Flow Rate | | | | Info | Seepage Bed I | | | Ŧ. | 0 | | Max depth | |
| 100 year 100 year 0.28 acres 0.50 Compared to the period of the per | | | | | | | ē. | | | | Pond/Swale Info | |
| 100 year 100 year 0.28 acres 0.50 Detention/ Retention Facilir Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor Design Perc Rate | | cfs | 0.03 | rD | Perc Flow Rate | | | | | | | |
| 100 year 100 year 0.28 acres 0.50 Detention/ Retention Facilir Reter Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate Safety Factor | | in/hr | 4.00 | ate | Design Perc Ra | | | | | | | |
| 100 year 100 year 0.28 acres 0.50 Allowable Release Rate Total Allowable Discharge May Discharge From Orifice Percolation Rate Info Measured Perc Rate | | | ш | | Safety Factor | | | cf | 102 | е | Water Quality Volume | |
| 100 year 100 year 0.28 acres 0.50 Percolation Rate Info | | in/hr | 4 | c Rate | Measured Per | | | ä | 0.2 | ll Depth | Water Quality Rainfal | |
| 100 year Detention/ Retention Facili Reter 0.28 acres Allowable Release Rate 0.50 Total Allowable Discharge From Orifice | | | | ate Info | Percolation Ra | | | | | ne Info | Water Quality Volum | |
| 100 year Detention/ Retention Facili Reter 0.28 acres Allowable Release Rate 0.50 Total Allowable Discharge | | cfs | 0.00 | e From Orifice | May Discharge | | | | | | | |
| 100 year Detention/ Retention Facili Reter | | cfs | 0.00 | le Discharge | Total Allowabl | | | | 0.50 | | C-Value | |
| 100 year Detention/ Retention Facili | , design | cfs/acre | 0.00 | ease Rate | Allowable Rele | | | acres | 0.28 | | Runoff Area | |
| | | | Retention | tention Facili | Detention/ Re | | | | 100 year | | Design Storm | |
| | NO. | | | Info | Allow Release Info | • | å6 | | | n Info | Drainage Basin Design Info | |

APPENDIX B

CONVEYANCE PIPE, INLET, AND SAND & GREASE TRAP CALCULATIONS

Design Criteria

| 1 | П | Min. cover | 0.05 ft/ft | II | Max slope |
|-----|----|---------------|-------------|----|--------------|
| 400 | 11 | Max length | 0.002 ft/ft | 11 | Min. slope |
| 12 | Ш | Min. diameter | 8 ft/s | Н | Max velocity |

| | | A1 18 | Pipe ID (in) | D | | | conveyance, |
|---------|---------|---------|-----------------------------------|----------|-----------|-------|--|
| | | 8 PVC | | ò | | | e pipe carcura |
| 503 | 200 | | at. | Mannii | | | alcalations |
| | | | Storn | 3,2 | | | |
| 0.0040 | 0.0040 | 0.0035 | n (ft/ft) | n Slope | | | |
| 20 | 15 | 32 | æ | Length | | | |
| 15.7 | 15.7 | 14.1 | (acres) | Area | Trib. | | |
| 25.44 | 25.40 | 53.20 | (min) | ToC | | | |
| 0.50 | 0.50 | 0.50 | Coeff. | Runoff | | | |
| 14.48 | 14.48 | 8.98 | (cfs) | Capacity | Full-Flow | | S Full |
| 14.18 | 14.19 | 8.05 | (cfs) | Flow | Design | | ر ر |
| 0.98 | 0.98 | 0.90 | 0 ₀ /Q _{Full} | | | | |
| 6.02 | 6.02 | 5.08 | (ft/s) | Vel. | Flow | Full- | |
| SGT-1 | CB-2 | CB-1 | Up Node | | | | |
| | SGT-1 | CB-2 | Node | Down | | | |
| 2565.11 | 2565.57 | 2565.68 | Up inv. | | | | THE PARTY OF THE P |
| 2565.03 | 2565.51 | 2565.57 | inv. | Down | | | AND PROPERTY OF PERSONS ASSESSMENT OF PERSON |
| 1.79 | 1.36 | 1.50 | Cover | Сþ | | | THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUM |
| | 1.39 | 1.61 | Cove | Dowr | | | |

Sand & Grease Traps



Design Criteria

Max throat velocity Min. baffle spacing

=

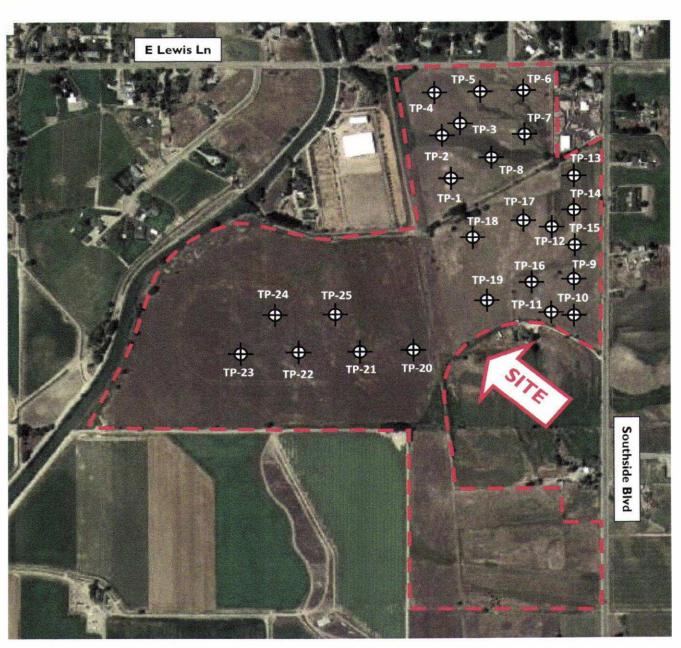
0.5 ft/s

20 in

Sand and grease trap calculations

| | | | Baffle Width | Baffle Spacing | Throat Area | Inflow | Throat Velocity |
|--------|-------------|------------|--------------|----------------|-------------|--------|-----------------|
| SGT ID | No. of SGTs | Size (gal) | (in) | (in) | (sf) | (cfs) | (ft/s) |
| SGT-1 | 2 | 1500 | 63 | 33 | 28.9 | 14.2 | 0.49 |

APPENDIX C GEOTECHNICAL REPORTS



Approximate Test Pit Locations



Source: Google Earth 2019, GeoTek Field Observations, 2019. Not to Scale.



GEOTECHNICAL | ENVIRONMENTAL | MATERIALS

320 E. Corporate Dr, Suite 300, Meridian, ID 83642 (208) 888-7010 (phone) / (208) 888-7924 (FAX)

FIGURE 2 SITE EXPLORATION MAP Osprey Estates Subdivision E Lewis Ln and Southside Blvd Nampa, Idaho

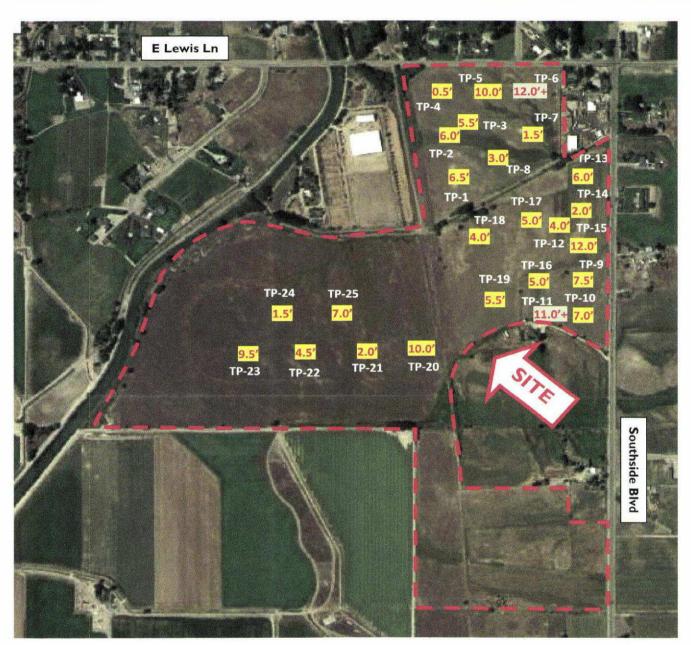
Prepared for: Westpark Companies

Report Date: Drawn

August 2019

Project No.: 2054-ID

Drawn By:



Approximate Test Pit Location & Depth of basalt

##'+ Approximate Test Pit Location & No basalt encountered



Source: Google Earth 2019, GeoTek Field Observations, 2019. Not to Scale.



GEOTECHNICAL | ENVIRONMENTAL | MATERIALS

320 E. Corporate Dr, Suite 300, Meridian, ID 83642 (208) 888-7010 (phone) / (208) 888-7924 (FAX)

FIGURE 3 **BASALT DEPTH MAP** Osprey Estates Subdivision E Lewis Ln and Southside Blvd Nampa, Idaho

Prepared for: Westpark Companies

Project No.: 2054-ID Report Date: August 2019 Inles Drawn By: SJH

LOG GENERAL NOTES

| CONSISTENCY OF FINE-GRAINED SOILS | | | | | | | |
|--|--|-------------|--|--|--|--|--|
| Unconfined Compressive Strength, Qu, psf | Standard Penetration or N- Value (SS) Blows/Ft | Consistency | | | | | |
| < 500 | <2 | Very Soft | | | | | |
| 500 - 1,000 | 2 - 3 | Soft | | | | | |
| 1,001 - 2,000 | 4 - 7 | Firm | | | | | |
| 2,001 - 4,000 | 8 - 16 | Stiff | | | | | |
| 4,001 - 8,000 | 17 - 32 | Very Stiff | | | | | |
| > 8,001 | 32+ | Hard | | | | | |

| RELATIVE DENSITY OF COARSE-GRAINED SOILS | | | | | | |
|---|------------------|--|--|--|--|--|
| Standard Penetration (SPT) or N- Value (SS) Blows/Ft | Relative Density | | | | | |
| 0 - 3 | Very Loose | | | | | |
| 4 - 9 | Loose | | | | | |
| 10 - 29 | Medium Dense | | | | | |
| 30 - 49 | Dense | | | | | |
| 50+ | Very Dense | | | | | |

SPT penetration test using 140 pound hammer, with 30 inch free fall on 2 inch outside diameter (1-3/8 ID) sampler. For ring sampler using 140 lb hammer, with a 30 inch free fall on 3 inch outside diameter (2-1/2 ID) sample, use N-value x 0.7 to get Standard N-value.

For fine grained soil consistency, thumb penetration used per ASTM D-2488

| RELATIVE PROPORTIONS OF SAND & GRAVEL | | | | | | |
|--|--------------------------|--|--|--|--|--|
| Descriptive Term of other constituents | Percent of Dry Weight | | | | | |
| Trace | < 15 | | | | | |
| With | 15 - 29 | | | | | |
| Modifier | > 30 | | | | | |

| GRAIN SIZE TERMINOLOGY | | | | | | |
|---------------------------|------------------------|--|--|--|--|--|
| Major Component of Sample | Particle Size | | | | | |
| Boulders | Over 12 inches | | | | | |
| Cobbles | 3 inches to 12 inches | | | | | |
| Gravel | #4 Sieve to 3 inches | | | | | |
| Sand | #200 Sieve to #4 Sieve | | | | | |
| Silt or Clay | Passing #200 Sieve | | | | | |

| RELATIVE HARDNESS OF CEMENTED SOILS (CALICHE) | | | | | | |
|---|--|--|--|--|--|--|
| Description General Characteristics | | | | | | |
| Very Dense to Moderately Hard | Partially Cemented Granular Soil - Can be carved with a knife and broken with force by hand. | | | | | |
| Very Stiff to Moderately Hard | Partially Cemented Fine-Grained Soil - Can be carved with a knife and broken with force by hand. | | | | | |
| Moderately Hard | Moderate hammer blow required to break a sample | | | | | |
| Hard | Heavy hammer blow required to break a sample | | | | | |
| Very Hard | Repeated heavy hammer blow required to break a sample | | | | | |

LOG LEGEND

| | MATERIAL DESCRIPTION | | | | | | | |
|---|----------------------|-------------------------------------|--|--|--|--|--|--|
| Soil Pattern | USCS Symbol | USCS Classification | | | | | | |
| | FILL | Artificial Fill | | | | | | |
| | GP or GW | Poorly/Well graded GRAVEL | | | | | | |
| | GM | Silty GRAVEL | | | | | | |
| | GC | Clayey GRAVEL | | | | | | |
| | GP-GM or GW-GM | Poorly/Well graded GRAVEL with Silt | | | | | | |
| | GP-GC or GW-GC | Poorly/Well graded GRAVEL with Clay | | | | | | |
| | SP or SW | Poorly/Well graded SAND | | | | | | |
| | SM | Silty SAND | | | | | | |
| | SC | Clayey SAND | | | | | | |
| | SP-SM or SW-SM | Poorly/Well graded SAND with Silt | | | | | | |
| | SP-SC or SW-SC | Poorly/Well graded SAND with Clay | | | | | | |
| | SC-SM | Silty Clayey SAND | | | | | | |
| | ML | SILT | | | | | | |
| | MH | Elastic SILT | | | | | | |
| | CL-ML | Silty CLAY | | | | | | |
| | CL | Lean CLAY | | | | | | |
| | CH | Fat CLAY | | | | | | |
| | PCEM | PARTIALLY CEMENTED | | | | | | |
| | CEM | CEMENTED | | | | | | |
| *************************************** | BDR | BEDROCK | | | | | | |

| SAMPLING | | | | | | | |
|----------|-------------|--|--|--|--|--|--|
| | SPT | | | | | | |
| | Ring Sample | | | | | | |
| NR | No Recovery | | | | | | |
| >< | Bulk Sample | | | | | | |
| \leq | Water Table | | | | | | |

| CONSISTENCY | | | | | | | | |
|---|--------------|----|------------|----|-----------------|--|--|--|
| Cohesionless Soils Cohesive Soils Cementation | | | | | | | | |
| VL | Very Loose | So | Soft | MH | Moderately Hard | | | |
| L | Loose | F | Firm | Н | Hard | | | |
| MD | Medium Dense | S | Stiff | VH | Very Hard | | | |
| D | Dense | VS | Very Stiff | | | | | |
| VD | Very Dense | | 155 | | | | | |

| | | 7 | | |
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| | 1 | | | |
| _ | 0 | - | - | |

PROJECT #:

2054-ID

Osprey Estates Subdivision

PROJECT: CLIENT:

Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY:

SJH

METHOD:

Backhoe JustDiglt

EXCAVATOR:

8/7/19 DATE:

ELEVATION:

| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-9 | Consistency | REMARKS |
|--|-------------|---------------|--------------------|-------------|--|-------------|---------------------|
| | Š | 8 | 10 000011000000000 | | MATERIAL DESCRIPTION AND COMMENTS | - | |
| 1 - | | | | ML | Brown to Dk. Brown, SILT, Slightly Moist | So F | Organics upper 1.0' |
| 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 11 — 12 — 13 — 15 — 16 — 17 — 18 — 19 — 20 — 20 — 20 — 20 — 20 — 20 — 20 — 2 | | | | ML | END OF TEST PIT @ 7.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | F | |



PROJECT #: 2054-ID
PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDiglt

DATE: 8/7/19
ELEVATION:

| - | | | | | N | | |
|--|-------------|---------------|--------------|-------------|--|-------------|---------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-10 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| 1 - | | | | ML | Dk. Brown, SILT, Slightly Moist | So F | Organics upper 1.0' |
| 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 15 - 16 - 17 - 18 - 19 - 20 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1 | | | | ML | END OF TEST PIT @ 7.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | F | |

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| | | | _ | |

PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID ELEVATION:

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDiglt

DATE: 8/7/19

| - | | | | | | | | | | | |
|--|-------------|---------------|--------------|-------------|---|-------------|-----------------------------------|--|--|--|--|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-II MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS | | | | |
| - | | | | ML | Dk. Brown, SILT, Slightly Moist | So | | | | | |
| 1 - | | | | 111 | Dr. Drown, Sier, Signay Plose | F | Organics upper 1.0' | | | | |
| 2 - | | | | ML | Lt. Brown to Tan, SILT, Slightly Moist | F | | | | | |
| 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — | | | | SM | Brown, Silty SAND, Slightly Moist to Moist | MD | Percolation test conducted @ 7.0' | | | | |
| 12 — 13 — 14 — 15 — 16 — 17 — 18 — 19 — 20 — | | | | | END OF TEST PIT @ 11.0' NO GROUNDWATER ENCOUNTERED | | | | | | |



PROJECT #:

2054-ID

PROJECT:

Osprey Estates Subdivision

CLIENT:

Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY:

SJH

METHOD:

Backhoe JustDiglt

EXCAVATOR:

DATE: 8/7/19

ELEVATION:

| The same of the same of | SAM | IPLES | - | | | ete | |
|-------------------------|-------------|---------------|--------------|-------------|---|-------------|-----------------------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-12 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| | | Wall Street | | ML | Brown to Dk. Brown, SILT, Slightly Moist | So | |
| | | | | | | | Organics upper 1.0' |
| 2 - | | | | ML | Tan, Sandy SILT w/ Basalt, Slightly Moist | F | Percolation test conducted @ 2.5' |
| 4 - | | | | | END OF TEST PIT @ 4.0' (PRACTICAL REFUSAL, BASALT ROCK) | | |
| 5 – | | | | | NO GROUNDWATER ENCOUNTERED | | |
| 7 - | | | | | | | |
| 8 - | | | | | | | |
| 9 - | | | | | | | |
| 10 - | | | | | | | |
| 11 = | | | | | | | |
| 12 - | | | | | | | |
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| 19 = | | | | | | | |
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PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDight

DATE: 8/7/19

ELEVATION:

| G | | | , , | | R | | |
|--|-------------|---------------|--------------|-------------|--|-------------|---------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-13 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| 1 - | | | | ML | Dk. Brown, SILT, Slightly Moist | So F | Organics upper 1.0' |
| 2 – 3 – | | | | ML | Tan to Lt. Brown, SILT, Slightly Moist to Moist | F | |
| 5 - | | | | SM | Lt. Brown to Brown, Silty SAND, Moist | D | |
| 6 — 7 — 8 — 9 — 10 — 11 — 13 — 14 — 15 — 16 — 17 — 19 — 20 — | | | | | END OF TEST PIT @ 6.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | | |

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PROJECT #: 2054-ID PROJECT: Osprey Estates Subdivision CLIENT: Westpark Companies

LOGGED BY: SJH METHOD: Backhoe EXCAVATOR: JustDiglt DATE: 8/7/19

| G | | | 7 | E | K LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID | ELEVA | ATION: |
|---|-------------|---------------|--------------|-------------|--|-------------|---------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-14 | Consistency | REMARKS |
| | Š | <u>m</u> | | ML | MATERIAL DESCRIPTION AND COMMENTS Dk. Brown, SILT, Slightly Moist | So | |
| | | | | ML | Dr. Brown, SIL1, Siightly Ploist | 30 | Organics upper 1.0' |
| 1 = | | | | SM | Lt. Brown to Tan, Silty SAND, Slightly Moist | MD | |
| 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — 15 — 16 — 17 — 18 — 19 — 20 — | | | | | END OF TEST PIT @ 2.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | | |

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| | 1 | | | |
| | | | | |

PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDight

DATE: 8/7/19

ELEVATION:

| 9 | | | , , | | N - | | |
|----------------------------|-------------|---------------|--------------|-------------|---|-------------|---------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-15 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| 1 - | | | | ML | Brown to Dk. Brown, SILT, Slightly Moist | So | Organics upper 1.0' |
| 2 3 4 5 | | | | ML | Lt. Brown to Tan, SILT, Slightly Moist | F | |
| 7 = 8 = 9 = 10 = 11 = 12 | | | | SM | Lt. Brown to Brown, Silty SAND w/ Basalt, Slightly Moist to Moist | D | |
| 12 13 14 15 16 17 18 19 20 | | | | | END OF TEST PIT @ 12.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | | |

| | ~ |
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PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision CLIENT: Westpark Companies

LOGGED BY:

SJH

METHOD:

Backhoe JustDiglt

8/7/19

EXCAVATOR: DATE:

ELEVATION:

| G | E | 0 | 7 | r E | LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID | ELEVA | ATION: |
|--|---------------|---------------|---------------|-------------|--|-------------|---------------------|
| Depth (ft) | Sample Type w | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-16 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| | U) | | | ML | Brown, SILT, Slightly Moist | So | O |
| 2 - | X | | | SM | Lt. Brown to Tan, Silty SAND, Slightly Moist | MD | Organics upper 1.0' |
| 4 - | | | | | | | |
| 5 - 6 - 7 - | | | SE 185 391 SE | | END OF TEST PIT @ 5.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | | |
| 8 – | | | | | | | |
| 9 – | | | | | | | |
| 11 = | | | | | | | |
| 12 - | | | | | | | |
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| 20 - | | | | | | | |

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PROJECT #: 2054-ID
PROJECT: Osprey Estates Subdivision
CLIENT: Westpark Companies

CLIENT: Westpark Companies DATE: 8/7/19
LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID ELEVATION:

LOGGED BY:

EXCAVATOR:

METHOD:

SJH

Backhoe

JustDiglt

| G | E | 0 | T | E | K |
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|--------------------------|-------------|---------------|--------------|-------------|--|-------------|---------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-17 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| | | | | ML | Brown, SILT, Slightly Moist | So | Organics upper 1.0' |
| 2 - | | | | ML | Brown to Lt. Brown, Sandy SILT, Slightly Moist | F | Organics apper 1.0 |
| 4 - | | | | SM | Lt. Brown to Tan, Silty SAND, Slightly Moist | MD | |
| 6 - | | | | | END OF TEST PIT @ 5.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | | |
| 7 - 8 - | | | | | | | |
| 9 - | | | | | | | |
| 10 - | | | | | | | |
| 12 - | | | | = | | | |
| 14 - | | | | | | | |
| 16 - | | | | | | | |
| 17 - | | | | | | | |
| 19 = | | | | | | | |
| 20 - | | | | | | | |



PROJECT #: 2054-ID PROJECT: Osprey Estates Subdivision CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH METHOD: Backhoe **EXCAVATOR:** JustDiglt DATE: 8/7/19

ELEVATION:

GEOTEK SAMPLES **USCS Symbol** Consistency Pattern Sample Type Depth (ft) Blows / 6 in. **TEST PIT NUMBER: TP-18 REMARKS** Soil MATERIAL DESCRIPTION AND COMMENTS Brown, SILT, Slightly Moist Organics upper 1.0' SM Tan, Silty SAND w/ Basalt, Slightly Moist MD 2 . 3 1 END OF TEST PIT @ 4.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 5 8 9 1 10 11 . 12 . 13 = 14 -15 = 16 17 = 18 -19 . 20 -

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PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDiglt

DATE: 8/7/19

ELEVATION:

| GE | : K |
|----------------------------|--|
| Depth (ft) | TEST PIT NUMBER: TP-19 MATERIAL DESCRIPTION AND COMMENTS REMARKS |
| 1 - | Brown, SILT, Slightly Moist So Organics upper 1.0' |
| 2 - | Lt. Brown to Tan, Silty SAND, Slightly Moist MD |
| 4 - | |
| 6 - | END OF TEST PIT @ 5.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED |
| 7 - | |
| 9 - | |
| 11 - | |
| 12 – | |
| 14 – | |
| 16 - | |
| 17 - | |
| 19 – 20 – | |
| 19 = | |



PROJECT #: 2054-ID PROJECT: Osprey Estates Subdivision CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH METHOD: Backhoe **EXCAVATOR:** JustDiglt DATE: 8/7/19

ELEVATION:

GEOTEK SAMPLES Pattern **USCS Symbol** Consistency Sample Type Depth (ft) Blows / 6 in. **TEST PIT NUMBER: TP-20 REMARKS** Soil MATERIAL DESCRIPTION AND COMMENTS ML Brown, SILT, Slightly Moist Organics upper 1.0' ML Tan, Sandy SILT, Slightly Moist 2 -5 = 8 Lt. Brown, Silty SAND, Slightly Moist SM Percolation test conducted @ 8.0' 9 . 10 END OF TEST PIT @ 10.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 11 -12 -13 = 14 -15 = 16 -17 = 18 -19 = 20 -

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PROJECT #: 2054-ID PROJECT: Osprey Estates Subdivision CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH METHOD: Backhoe JustDiglt **EXCAVATOR:** DATE: 8/7/19

ELEVATION:

GEO SAMPLES **USCS Symbol** Consistency Sample Type Depth (ft) **TEST PIT NUMBER: TP-21** Blows / 6 **REMARKS** MATERIAL DESCRIPTION AND COMMENTS Brown, SILT, Slightly Moist Organics upper 1.0' ML Lt. Brown to Tan, Sandy SILT, Slightly Moist END OF TEST PIT @ 2.0' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 3 . 10 -11 . 12 -13 -14 . 15 . 16 -17 . 18 -19 20 -



PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY:

SJH

METHOD:

Backhoe JustDigIt

8/7/19

DATE:

ELEVATION:

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| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-22 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| | 0) | | | ML | Brown to Gray, SILT, Slightly Moist | So | |
| 1 - 2 - 3 - | | | | ML | Lt. Brown to Tan, Sandy SILT, Slightly Moist | F | Organics upper 1.0' |
| 4 - | | | | | END OF TEST PIT @ 4.5' (PRACTICAL REFUSAL, BASALT ROCK) | | |
| 5 - 6 - 7 - | | | | | NO GROUNDWATER ENCOUNTERED | | |
| 8 – 9 – | | | | | | | |
| 10 – | | | | | | | |
| 12 – | | | | | | | |
| 14 - | | | | | | | |
| 16 – | | | | | | | |
| 18 - | | | | | | | |
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PROJECT #: 2054-ID

PROJECT: Osprey Estates Subdivision

CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDight

DATE: 8/7/19

ELEVATION:

| TEST PIT NUMBER: TP-23 REMARKS P. Corganics upper 1.0' F. Corganics upper 1.0' F. Corganics upper 1.0' REMARKS REMARKS REMARKS | 2 | | | | | | |
|--|------------|--|-----------------|------|---|-------------|--------------------|
| Organics upper 1.0° F Organi | Depth (ft) | | Soil Pattern | | | Consistency | REMARKS |
| The state of the | | | | ML | Dk. Brown to Brown, SILT, Slightly Moist | So | 0 |
| 2 — 3 — 4 — 5 — 6 — ML Lt. Brown, Sandy SILT, Slightly Moist F F | - | | | | | F | Organics upper 1.0 |
| 3 | 2 | | | | | | |
| Handle Service | | | | | | | |
| ML Lt. Brown, Sandy SILT, Slightly Moist F PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist MH SM Lt. Brown to Brown, Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 11 - 15 - 16 - 17 - 18 - 19 - 19 | 3 - | | | | | | |
| ML Lt. Brown, Sandy SILT, Slightly Moist F PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist MH SM Lt. Brown to Brown, Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 11 - 15 - 16 - 17 - 18 - 19 - 19 | | | | | | | |
| ML Lt. Brown, Sandy SILT, Slightly Moist PCEM Tan, PARTIALLY CEMENTED Slity SAND, Slightly Moist MH SM Lt. Brown to Brown, Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED NO GROUNDWATER ENCOUNTERED 11 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 10 - 10 - 10 - 10 - 10 | ' | | | | | | |
| PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED BEND OF TEST PIT @ 9.5' (PRACTICAL REFUSAL) NO GROUNDWATER ENCOUNTERED BEND OF TEST PIT @ 9.5' (PRACTICAL REFUSAL) NO GROUNDWATER ENCOUNTERED BEND OF TEST PIT @ 9.5' (PRACTICAL REFUSAL) NO GROUNDWATER ENCOUNTERED | 5 - | | | | | | |
| PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED BEND OF TEST PIT @ 9.5' (PRACTICAL REFUSAL) NO GROUNDWATER ENCOUNTERED BEND OF TEST PIT @ 9.5' (PRACTICAL REFUSAL) NO GROUNDWATER ENCOUNTERED BEND OF TEST PIT @ 9.5' (PRACTICAL REFUSAL) NO GROUNDWATER ENCOUNTERED | 6 | | | | | | |
| PCEM Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist MH SM Lt. Brown to Brown, Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 19 - 10 - 17 - 18 - 19 - 10 - 18 - 18 - 19 - 18 - 18 - 19 - 18 - 18 | ů – | | | ML | Lt. Brown, Sandy SILT, Slightly Moist | F | |
| SM Lt. Brown to Brown, Silty SAND, Slightly Moist D END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - | 7 - | | | | | | |
| SM Lt. Brown to Brown, Silty SAND, Slightly Moist END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 10 - 10 - 10 | 8 | | Bardara ann ann | PCEM | Tan, PARTIALLY CEMENTED Silty SAND, Slightly Moist | | |
| END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | ŭ | | | SM | Lt. Brown to Brown, Silty SAND, Slightly Moist | D | |
| NO GROUNDWATER ENCOUNTERED 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19 | 9 - | | | | | | |
| NO GROUNDWATER ENCOUNTERED 12 - | 10 - | | | | END OF TEST PIT @ 9.5' (PRACTICAL REFUSAL, BASALT ROCK) | | |
| 12 — 13 = 14 — 15 = 16 — 17 = 18 — 19 = | | | | | NO GROUNDWATER ENCOUNTERED | | |
| 13 - 14 - 15 - 16 - 17 - 18 - 19 - | 11- | | | | | | |
| 13 - 14 - 15 - 16 - 17 - 18 - 19 - | 12 - | | | | | | |
| 14 - 15 - 16 - 17 - 18 - 19 - | | | | | | | |
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TEST PIT LOG

PROJECT #: 2054-ID
PROJECT: Osprey Estates Subdivision
CLIENT: Westpark Companies

LOCATION: SW of E Lewis Ln and Southside Blvd, Nampa, ID

LOGGED BY: SJH

METHOD: Backhoe

EXCAVATOR: JustDight

DATE: 8/7/19

ELEVATION:

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|------------|-------------|---------------|--------------|-------------|--|-------------|---------------------|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | TEST PIT NUMBER: TP-24 MATERIAL DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| | U) | | | ML | Brown, SILT, Slightly Moist | So | |
| 1 - | | | | SM | Lt. Brown, Silty SAND, Slightly Moist | MD | Organics upper 1.0' |
| 2 – | | | | 311 | END OF TEST PIT @ 1.5' (PRACTICAL REFUSAL, BASALT ROCK) NO GROUNDWATER ENCOUNTERED | , ib | |
| 4 - | | | | | | | |
| 5 - | | | | | | | |
| 6 - | | | | | | | |
| 8 - | | | | | | | |
| 9 = | | | | | | | |
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| 15 - | | | | | | | |
| 16 - | | | | | | | |
| 17 - | | | | | | | |
| 19 - | | | | | | | |
| 20 — | | | | | | | |

| G | Section Street | CIPLES | 7 | T E | PROJECT #: PROJECT: CLIENT: LOCATION: | | ME EXCAV | THOD: Backhoe ATOR: JustDiglt DATE: 8/7/19 ATION: |
|---|----------------|---------------|--------------|-------------|---------------------------------------|---|-------------|--|
| Depth (ft) | Sample Type | Blows / 6 in. | Soil Pattern | USCS Symbol | | PIT NUMBER: TP-25 DESCRIPTION AND COMMENTS | Consistency | REMARKS |
| 1 = 2 = 3 = 4 = 5 = 6 = 7 = 7 | | | | ML | | dy SILT, Slightly Moist to Moist | F | Organics upper 1.0' |
| 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 | | | | | | .0' (PRACTICAL REFUSAL, BASALT JNDWATER ENCOUNTERED | ROCK) | |

TEST PIT LOG

FIELD TESTS AND OBSERVATIONS (2054-ID)

PERCOLATION TESTS

The infiltration rate was determined by conducting percolation tests for onsite earth materials. The infiltration rate was determined in inches per hour in general accordance with the City of Nampa requirements. Infiltration rate results are presented below. The infiltration rates provided below should be used for design and not exceeded.

| LOCATION | INFILTRATION RATE (Inches/Hour) |
|--------------|------------------------------------|
| TP-3 @ 2.0' | 1.5 |
| TP-11 @ 7.0' | 2.7 |
| TP-12 @ 2.5' | 0.6 |
| TP-20 @ 7.0' | 3.3 |

GROUND WATER MONITORING RESULTS

Ground water monitoring results are presented below. Ground water elevation results are recorded in feet below existing grade.

| STAND-PIPE PIEZOMETER# | TP-3 | TP-II | TP-12 | TP-20 |
|---------------------------|------|-------|-------|-------|
| 8/8/19 | 4.8+ | 12.1+ | 5.2+ | 10.1+ |

+ Indicates a dry reading at the bottom of the piezometer n/a Indicates that the piezometer was damaged/missing in the field and no measurements were obtained.

| | TP-3 | TP-II | TP-12 | TP-20 |
|---------|-------|--------|-------|--------|
| | | | 11-12 | |
| 8/8/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 9/5/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 10/3/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 5/22/20 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
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KEY

"+" Indicates dry reading at bottom of piezometer

"N/A" Indicates that piezometer is damaged or missing - therefore no data was obtained

"BOLD" Indicates that reading is believed to have been artificially influenced by local irrigation

Note: Groundwater elevation results are recorded in feet below approximate existing grade.

| | TP-3 | TP-II | TP-12 | TP-20 |
|---------|-------|--------|-------|--------|
| 8/8/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 9/5/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 10/3/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 5/22/20 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 6/24/20 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
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KEY

"+" Indicates dry reading at bottom of piezometer

"N/A" Indicates that piezometer is damaged or missing - therefore no data was obtained

"BOLD" Indicates that reading is believed to have been artificially influenced by local irrigation

Note: Groundwater elevation results are recorded in feet below approximate existing grade.

| | TP-3 | TP-II | TP-12 | TP-20 |
|--------|-------|--------|-------|--------|
| 8/8/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 9/5/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
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KEY

"+" Indicates dry reading at bottom of piezometer

"N/A" Indicates that piezometer is damaged or missing - therefore no data was obtained

"BOLD" Indicates that reading is believed to have been artificially influenced by local irrigation

Note: Groundwater elevation results are recorded in feet below approximate existing grade.

| | TP-3 | TP-II | TP-12 | TP-20 |
|---------------------------|-------|----------|-------|--------|
| 8/8/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 9/5/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
| 10/3/19 | 4.8'+ | 12.1'+ | 5.2'+ | 10.1'+ |
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KEY

"+" Indicates dry reading at bottom of piezometer

"N/A" Indicates that piezometer is damaged or missing - therefore no data was obtained

"BOLD" Indicates that reading is believed to have been artificially influenced by local irrigation

Note: Groundwater elevation results are recorded in feet below approximate existing grade.

Canyon County Development Services

111 N. 11th Ave. Room 140, Caldwell, ID 83605 (208) 454-7458

Building Division Email: buildinginfo@canyonco.org

Planning Division Email: zoninginfo@canyonco.org

Receipt Number: 74524

Date:

5/23/2022

Date Created: 5/23/2022

Receipt Type: Normal Receipt

Status: Active

Customer's Name: T-O Engineers

Comments: SD2022-0027 location R29552014 0 TBD Southside Blvd Nampa

CHARGES

| Item Being Paid For: | Application Number: | Amount Paid: | Prevs Pymnts: | Unpaid Amnt: |
|---|----------------------------|---------------------|---------------|---------------------|
| Planning - Final Plat | SD2022-0027 | \$930.00 | \$0.00 | \$0.00 |
| Planning - Final Plat Addition City Impact Area Fee | SD2022-0027 | \$100.00 | \$0.00 | \$0.00 |
| Planning - Final Plat Addition Per Lot Fee (Per Application) | SD2022-0027 | \$410.00 | \$0.00 | \$0.00 |

Sub Total:

\$1,440.00

Sales Tax:

\$0.00

Total Charges:

\$1,440.00

PAYMENTS

| Type of Payment: | Check/Ref Number: | Amount: |
|------------------|-------------------|---------|
| | | |

Check

1389

\$1,440.00

Total Payments: \$1,440.00

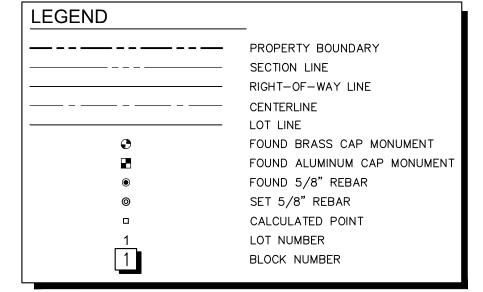
ADJUSTMENTS

Receipt Balance:

\$0.00

LOCATED IN THE N1/2 OF THE NE1/4, SECTION 14, TOWNSHIP 2 NORTH, RANGE 2 WEST BOISE MERIDIAN, CANYON COUNTY, IDAHO





NOTES

- 1. MINIMUM BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH THE CANYON COUNTY APPLICABLE ZONING AND SUBDIVISION REGULATIONS AT THE TIME OF ISSUANCE OF INDIVIDUAL BUILDING PERMITS OR AS SPECIFICALLY APPROVED AND OR REQUIRED.
- 2. ANY RESUBDIVISION OF THIS PLAT SHALL COMPLY WITH THE APPLICABLE REGULATIONS IN EFFECT AT THE TIME OF RESUBDIVISION.
- 3. THIS DEVELOPMENT RECOGNIZES SECTION 22-4503 OF THE IDAHO CODE, RIGHT TO FARM ACT, WHICH STATES: "NO AGRICULTURAL OPERATION, AGRICULTURAL FACILITY OR EXPANSION THEREOF SHALL BE OR BECOME A NUISANCE, PRIVATE OR PUBLIC, BY ANY CHANGED CONDITIONS IN OR ABOUT THE SURROUNDING NONAGRICULTURAL ACTIVITIES AFTER IT HAS BEEN IN OPERATION FOR MORE THAN ONE (1) YEAR, WHEN THE OPERATION, FACILITY OR EXPANSION WAS NOT A NUISANCE AT THE TIME IT BEGAN OR WAS CONSTRUCTED. THE PROVISIONS OF THIS SECTION SHALL NOT APPLY WHEN A NUISANCE RESULTS FROM THE IMPROPER OR NEGLIGENT OPERATION OF AN AGRICULTURAL OPERATION, AGRICULTURAL FACILITY OR EXPANSION THEREOF."
- 4. ALL LOT SIZES MEET THE DIMENSIONAL STANDARDS ESTABLISHED IN THE APPLICABLE ZONING ORDINANCE OR AS SPECIFICALLY APPROVED AND SHALL NOT BE REDUCED IN SIZE WITHOUT WRITTEN APPROVAL OF THE HEALTH AUTHORITY.
- 5. STORM DRAINAGE FACILITIES OUTSIDE THE PUBLIC RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE HOMEOWNER'S ASSOCIATION OR PROPERTY OWNER ON WHICH THE STORM DRAINAGE FACILITY IS CONSTRUCTED IF NO HOMEOWNER'S ASSOCIATION EXISTS. RESPONSIBILITY FOR STORM DRAINAGE FACILITIES INCLUDES ALL MAINTENANCE, BOTH ROUTINE AND NON-ROUTINE.
- 6. IRRIGATION WATER HAS BEEN PROVIDED BY NAMPA MERIDIAN IRRIGATION DISTRICT, IN COMPLIANCE WITH IDAHO CODE SECTION 31-3805(1)(b). LOTS WITHIN THIS SUBDIVISION SHALL BE ENTITLED TO IRRIGATION WATER RIGHTS AND SHALL BE OBLIGATED FOR ASSESSMENTS FROM SAID DITCH COMPANY AND THE HOMEOWNER'S ASSOCIATION. MAINTENANCE OF ANY IRRIGATION OR DRAINAGE PIPE OR DITCH CROSSING A LOT IS THE RESPONSIBILITY OF THE LOT OWNER UNLESS SAID RESPONSIBILITY IS ASSUMED BY AN IRRIGATION OR DRAINAGE DISTRICT OR BY THE HOMEOWNERS' ASSOCIATION.
- 7. ALL LOT LINES COMMON TO A PUBLIC RIGHT—OF—WAY ARE SUBJECT TO A TEN (10) FOOT WIDE PUBLIC UTILITIES, DRAINAGE, AND IRRIGATION EASEMENT. ALL SIDE LOT LINES ARE SUBJECT TO A FIVE (5) FOOT WIDE PRIVATE PROPERTY DRAINAGE EASEMENT. UNLESS OTHERWISE SHOWN, ALL REAR LOT LINES ARE SUBJECT TO A TEN (10) FOOT WIDE PUBLIC UTILITIES, DRAINAGE, AND IRRIGATION EASEMENT.
- 8. LOT 24, BLOCK 1; LOTS 10-20, BLOCK 2; AND LOT 5, BLOCK 6 ARE SUBJECT TO A TEN FOOT (10') WIDE PRESSURE IRRIGATION EASEMENT (AS SHOWN) FOR THE BENEFIT OF THE NAMPA MERIDIAN IRRIGATION DISTRICT.
- 9. LOT 35, BLOCK 1; LOT 21, BLOCK 2; AND LOT 5, BLOCK 6 ARE COMMON LOTS TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS' ASSOCIATION.
- 10. LOT 35, BLOCK 1; AND LOT 21, BLOCK 2; ARE SUBJECT TO A BLANKET PUBLIC UTILITIES, DRAINAGE, AND PRESSURE IRRIGATION EASEMENT.
- 11. NO ADDITIONAL DOMESTIC WATER SUPPLIES SHALL BE INSTALLED BEYOND THE WATER SYSTEM APPROVED IN THE SANITARY RESTRICTION RELEASE.
- 12. THIS SUBDIVISION SHALL BE SUBJECT TO THE COVENANTS, CONDITIONS, AND RESTRICTIONS THAT ARE TO BE FILED FOR RECORD AT THE CANYON COUNTY RECORDER'S OFFICE, AND THAT MAY BE AMENDED FROM TIME TO TIME AT THE DISCRETION OF THE HOMEOWNER'S ASSOCIATION.
- 13. NO ACCESS SHALL BE ALLOWED TO LAND IN A PLATTED SUBDIVISION OTHER THAN TO INTERNAL SUBDIVISION STREETS OR AS OTHERWISE SHOWN ON THE PLAT.
- 14. THIS PLAT IS SUBJECT TO A DEVELOPMENT AGREEMENT PER INSTRUMENT NO. 2021-018861.
- 15. THIS PLAT IS SUBJECT TO A TEMPORARY LICENSE AGREEMENT PER INSTRUMENT NO. 2021-031874.
- 16. THIS PLAT IS SUBJECT TO AN AGREEMENT WITH THE CITY OF NAMPA WATER HOOKUP AGREEMENT PER INSTRUMENT NO. 2021-015554.
- 17. NO NEW DEVELOPMENT OR RE-DEVELOPMENT OF LAND MAY DISCHARGE STORM WATER ONTO HIGHWAY DISTRICT RIGHT-OF-WAY, OR INTO THE DISTRICT'S MUNICIPAL SEPARATE SEWER SYSTEM.

APPROVAL OF NAMPA HIGHWAY DISTRICT NO. 1

NAMPA HIGHWAY DISTRICT NO. 1 DOES HEREBY ACCEPT THIS PLAT, AND THE DEDICATED PUBLIC STREETS, HIGHWAYS AND RIGHTS—OF—WAY AS ARE DEPICTED ON THIS PLAT, IN ACCORDANCE WITH THE PROVISIONS OF I.C. § 50—1312.

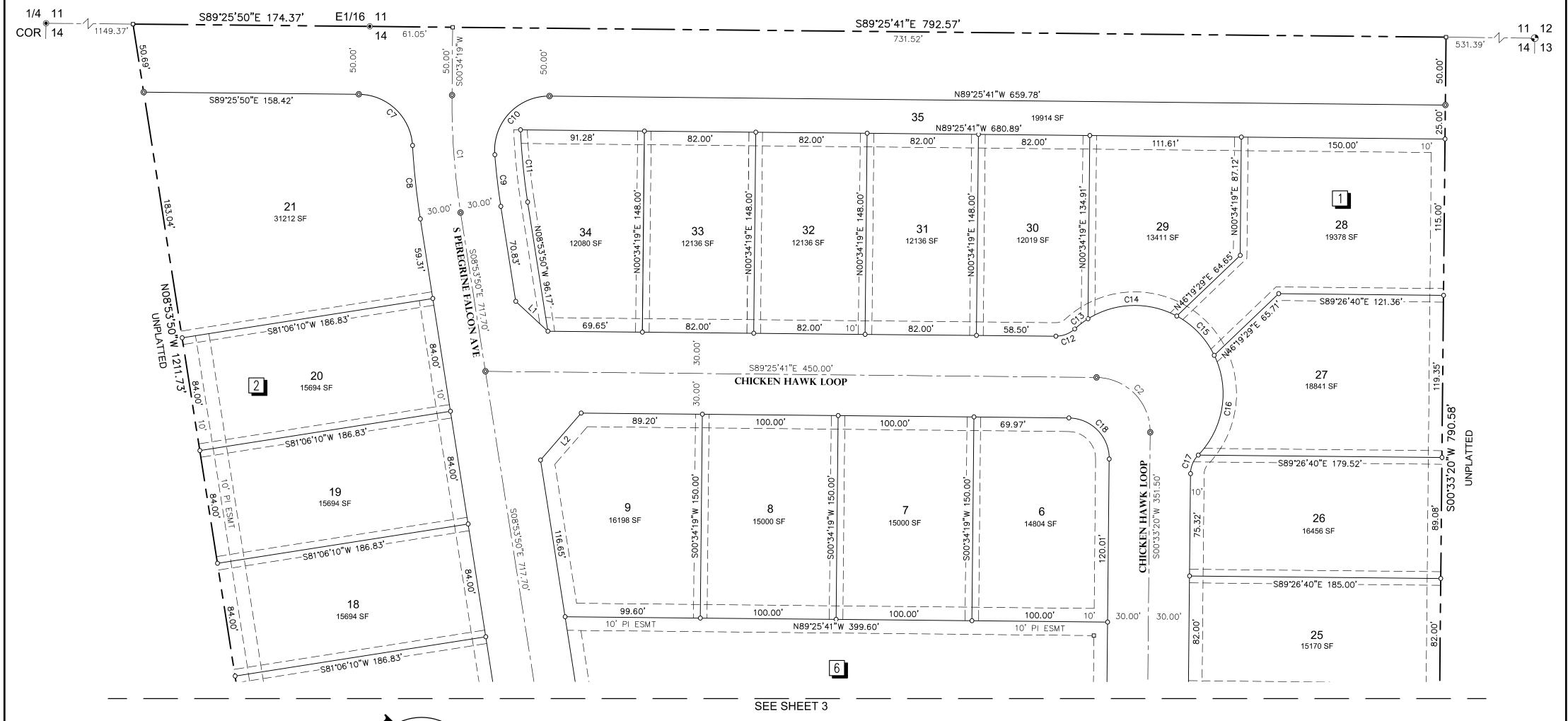
CHAIRMAN DATE

332 N. BROADMORE WAY
NAMPA, IDAHO 83687-5123
PHONE: (208) 442-6300 WWW.TO-ENGINEERS.COM

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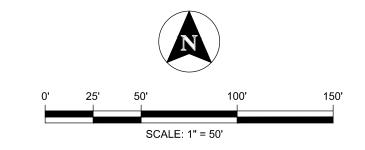
BOOK ____ PAGE ___ SHEET

SHEET NO. 1 OF 5





| CURVE TABLE | CURVE TABLE |
|--|---|
| CURVE RADIUS LENGTH DELTA BEARING CHORD CURVE | RADIUS LENGTH DELTA BEARING CHORD |
| C1 525.00' 86.77' 9*28'09" S4*09'46"E 86.67' C12 | 20.00' 15.17' 43°26'46" N68°50'55"E 14.80' |
| C2 40.00' 62.82' 89*59'01" S44*26'11"E 56.56' C13 | 65.00' 12.39' 10°55'17" N52°35'11"E 12.37' |
| C7 40.00' 60.11' 86°06'13" S46°22'44"E 54.61' C14 | 65.00' 68.47' 60°21'27" N88°13'33"E 65.35' |
| C8 555.01' 54.38' 5*36'51" S6*05'24"E 54.36' C15 | 65.00' 40.66' 35'50'26" \$43'40'31"E 40.00' |
| C9 495.00' 38.23' 4*25'32" S6*41'04"E 38.23' C16 | 65.00' 79.14' 69°45'24" S9°07'24"W 74.34' |
| C10 40.00' 66.35' 95°02'37" S43°03'00"W 59.00' C17 | 20.00' 15.17' 43°26'46" S22°16'43"W 14.80' |
| C11 475.00' 53.49' 6°27'08" N5°40'16"W 53.46' C18 | 30.00' 47.12' 89*59'01" S44*26'11"E 42.42' |



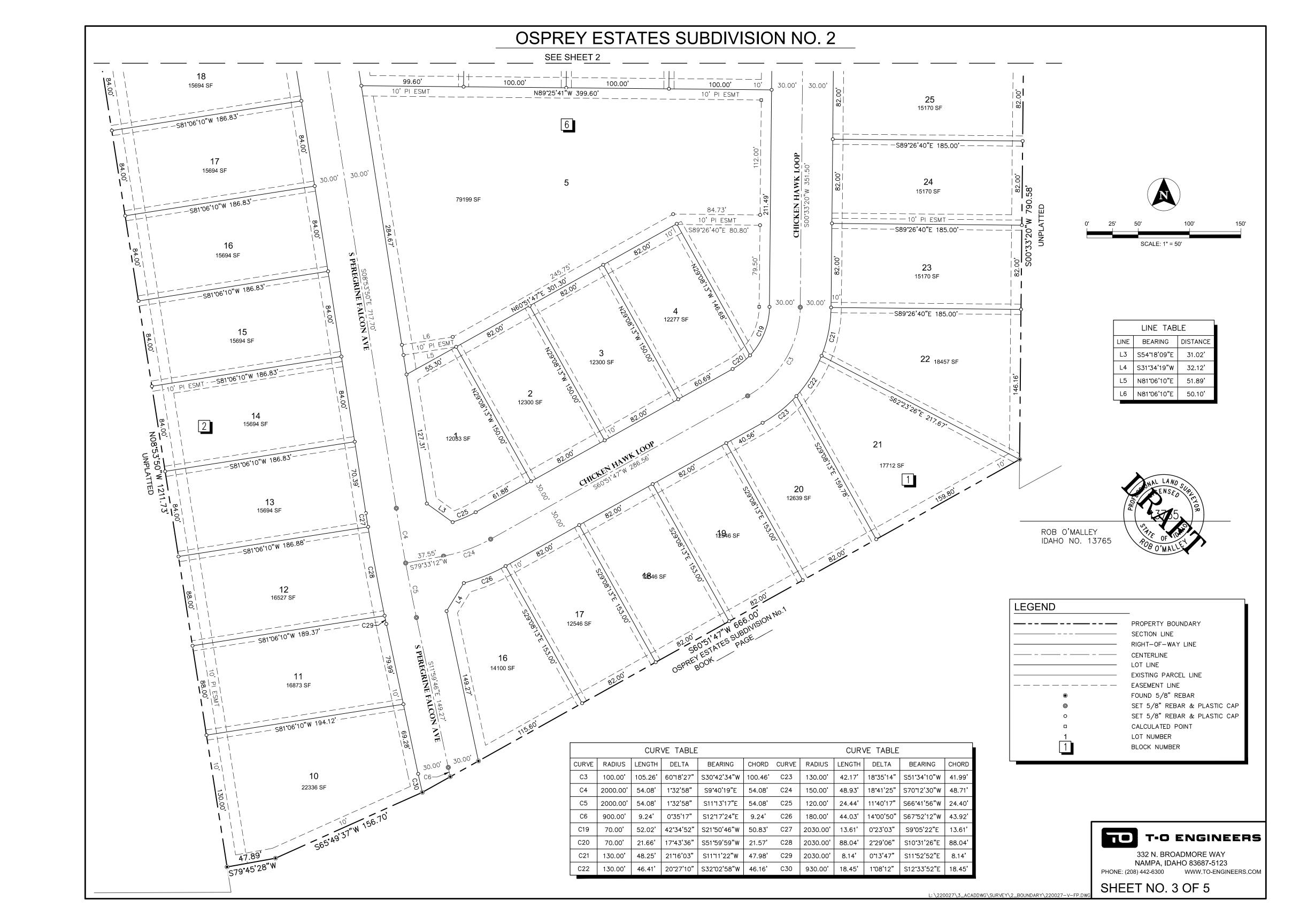
| LINE TABLE | | |
|------------|-------------|-----------------------------|
| LINE | BEARING | DISTANCE |
| L1 | S47°11'05"E | 32.28' |
| L2 | S40°50'14"W | 45.78' |
| | L1 | LINE BEARING L1 S47*11'05"E |

| LEGEND | _ |
|----------|------------------------------|
| | PROPERTY BOUNDARY |
| | SECTION LINE |
| | RIGHT-OF-WAY LINE |
| | CENTERLINE |
| | LOT LINE |
| | EASEMENT LINE |
| • | FOUND BRASS CAP MONUMENT |
| • | FOUND 5/8" REBAR |
| © | SET 5/8" REBAR & PLASTIC CAP |
| 0 | SET 1/2" REBAR & PLASTIC CAP |
| <u> </u> | CALCULATED POINT |
| _6_ | LOT NUMBER |
| 1 | BLOCK NUMBER |
| | |

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SHEET NO. 2 OF 5



CERTIFICATE OF OWNERS

KNOW ALL MEN BY THESE PRESENTS. THAT THE UNDERSIGNED ARE THE OWNERS OF THE PROPERTY HEREINAFTER DESCRIBED.

A PARCEL OF LAND SITUATED IN A PORTION OF THE N1/2 OF THE NE1/4 OF SECTION 14, TOWNSHIP 2 NORTH, RANGE 2 WEST, BOISE MERIDIAN, CANYON COUNTY, IDAHO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 5/8 INCH REBAR MARKING THE EAST 1/16 CORNER BETWEEN SECTIONS 14 AND 11 OF SAID TOWNSHIP, FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 14 BEARS S.89°25'41"E., 1323.96 FEET; THENCE, ALONG THE NORTH BOUNDARY OF SAID NE1/4,

S.89°25'41"E., 792.57 FEET TO A 5/8 INCH REBAR; THENCE,

S.00°33'20"W., 790.58 FEET TO A 5/8 INCH REBAR ON THE NORTH BOUNDARY OF OPSREY ESTATES SUBDIVISION NO.1; THENCE ALONG SAID NORTH BOUNDARY,

S.60°51'47"W., 666.00 FEET TO A 5/8 INCH REBAR ON THE WEST RIGHT—OF—WAY OF S PEREGRINE FALCON AVE.;

S.79°45'28"W., 47.89 FEET TO A 5/8 INCH REBAR; THENCE,

N.08°53'50"W.. 1211.73 FEET TO A 5/8 INCH REBAR ON THE NORTH BOUNDARY OF SAID NE1/4. FROM WHICH A 5/8 INCH REBAR MARKING THE NORTH 1/4 CORNER OF SAID SECTION 14 BEARS N.89°25'50'E., A DISTANCE OF 1149.37 FEET: THENCE ALONG SAID NORTH BOUNDARY.

S.89°25'50"E., 174.37 FEET TO THE POINT OF BEGINNING.

CONTAINING: 20.477 ACRES, MORE OR LESS.

IT IS THE INTENTION OF THE UNDERSIGNED TO AND THEY HEREBY INCLUDE SAID LAND IN THIS PLAT. THE PUBLIC STREETS SHOWN ON THIS PLAT ARE HEREBY DEDICATED TO THE PUBLIC. THE EASEMENTS AS SHOWN ON THIS PLAT ARE NOT DEDICATED TO THE PUBLIC, BUT THE RIGHT TO USE SAID EASEMENTS IS HEREBY PERPETUALLY RESERVED FOR PUBLIC UTILITIES AND FOR SUCH OTHER USES AS DESIGNATED HEREON. ALL LOTS IN THIS SUBDIVISION WILL BE ELIGIBLE TO RECEIVE DOMESTIC WATER SERVICE FROM THE CITY OF NAMPA, IDAHO, AND SAID CITY OF NAMPA HAS AGREED IN WRITING TO SERVE ALL THE LOTS IN THIS SUBDIVISION.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS____DAY OF______, 20___

ASUMENDI HOLDINGS, LLC. AN IDAHO LIMITED LIABILITY COMPANY

GREGORY JOHNSON, AGENT, OE DEVELOPMENT, LLC.

ACKNOWLEDGMENT

STATE OF IDAHO COUNTY OF COUNTY S.S.

ON THIS_____DAY OF_____, 20___, BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED GREGORY JOHNSON, KNOWN OR IDENTIFIED TO ME TO BE AN AGENT OF OE DEVELOPMENT LLC, AN IDAHO LIMITED LIABILITY COMPANY, WHO SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE WITHIN INSTRUMENT ON BEHALF OF SAID COMPANY, AND THAT SUCH LIMITED LIABILITY COMPANY EXECUTED THE SAME IN NAME.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY OFFICIAL SEAL THE DAY AND YEAR IN THIS CERTIFICATE FIRST ABOVE WRITTEN.

NOTARY PUBLIC FOR THE STATE OF IDAHO

CERTIFICATE OF SURVEYOR

ROB O'MALLEY

I, ROB O'MALLEY, DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, LICENSED BY THE STATE OF IDAHO, AND THAT THIS PLAT AS DESCRIBED IN THE "CERTIFICATE OF OWNERS" WAS DRAWN FROM THE FIELD NOTES OF A SURVEY MADE ON THE GROUND UNDER MY DIRECT SUPERVISION AND ACCURATELY REPRESENTS THE POINTS PLATTED HEREON, AND IS IN CONFORMITY WITH THE STATE OF IDAHO CODE RELATING TO PLATS AND SURVEYS AND THE CORNER PERPETUATION AND FILING ACT, IDAHO CODE 55-1601 THROUGH 55-1612.

IDAHO NO. 13765

T-O ENGINEERS

332 N. BROADMORE WAY NAMPA, IDAHO 83687-5123 PHONE: (208) 442-6300 WWW.TO-ENGINEERS.COM

| SATISFACTION OF SANITARY RESTRICTION SANITARY RESTRICTIONS AS REQUIRED BY IDAHO COD SATISFIED. SANITARY RESTRICTIONS MAY BE RE-IMPOS 50-1326, IDAHO CODE, BY THE ISSUANCE OF A CERT | SED, IN ACCORDANCE WITH SECTION |
|--|--|
| SOUTHWEST DISTRICT HEALTH DEPARTMENT | DATE |
| | |
| APPROVAL OF CANYON COUNTY HIGHWAY CANYON HIGHWAY DISTRICT NO. 4 DOES HEREBY ACC PUBLIC STREETS, HIGHWAYS, AND RIGHTS-OF-WAY AS ACCORDANCE WITH THE PROVISIONS OF IDAHO CODE | EPT THIS PLAT, AND THE DEDICATED S ARE DEPICTED ON THIS PLAT, IN |
| COMMISSIONER, CANYON HIGHWAY DISTRICT NO. 4 | DATE |
| APPROVAL OF PLANNING AND ZONING COM | /MISSION |
| ACCEPTED AND APPROVED THIS DAY CANYON COUNTY PLANNING AND ZONING COMMISSION, | |
| CHAIRMAN | DATE |
| APPROVAL OF COUNTY COMMISSIONERS | |
| ACCEPTED AND APPROVED THIS DAY CANYON COUNTY PLANNING AND ZONING COMMISSION, | |
| CHAIRMAN | DATE |

CERTIFICATE OF COUNTY SURVEYOR

I, THE UNDERSIGNED, A LICENSED PROFESSIONAL LAND SURVEYOR FOR CANYON COUNTY, IDAHO, DO HEREBY CERTIFY THAT I HAVE CHECKED THIS PLAT AND THAT IT COMPLIES WITH THE STATE OF IDAHO CODE RELATING TO PLATS AND VACATIONS.

| CANYON COUNTY SURVEYOR | DATE |
|------------------------|------|

CERTIFICATE OF THE COUNTY TREASURER

I, THE UNDERSIGNED, COUNTY TREASURER IN AND FOR THE COUNTY OF CANYON, STATE OF IDAHO, PER THE REQUIREMENTS OF I.C. 50—1308, DO HEREBY CERTIFY THAT ANY AND ALL CURRENT AND OR DELINQUENT COUNTY PROPERTY TAXES FOR THE PROPERTY INCLUDED IN THIS SUBDIVISION HAVE BEEN PAID IN FULL. THIS CERTIFICATION IS VALID FOR THE NEXT THIRTY (30) DAYS ONLY.

| COUNTY TREASURER | DATE |
|------------------|------|

T-O ENGINEERS

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