# LORENZINI SFR

GENERAL NOTES: 1. SITE PLAN PROVIDED BY CLIENT ON APRIL 22, 2022.

- 2. WALL/ FOOTING/ LAWN UNDERDRAIN DRAINAGE SYSTEM AND ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS MADE AT LEAST ONE FOOT BELOW THE WALL/FOOTING/ UNDERDRAIN DRAINAGE SYSTEM AND DOWN SLOPE OF THE WALL/BUILDING FOUNDATION AND DOWNSTREAM OF THE DETENTION TANK.
- 3. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES SHOWN, OR NOT SHOWN IN THEIR PROPER LOCATION.
- 4. CONTRACTOR SHALL POT-HOLE LOCATION OF EXISTING UTILITIES TO BE RECONNECTED PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
- 5. CONTRACTOR TO VERIFY CONDITION AND GOOD WORKING ORDER OF ALL EXISTING UTILITIES TO BE RECONNECTED OR RE-USED PRIOR TO START OF CONSTRUCTION.
- 6. SOILS ON THE SITE CONSISTS OF KITSAP SILT LOAM (KpB) PER THE NRCS WEB SOIL
- 7. ROOF DRAINS SHALL BE 4" OR 6" PVC AS SHOWN AND HAVE A MINIMUM SLOPE OF
- 8. ALWAYS CALL 811 TWO WORKING DAYS BEFORE YOU DIG.

ASPHALT DRIVEWAY

TW 294.60 / BW 293.00

FLOW LINE

## AREA BREAKDOWN:

LOT SIZE: 11,523 S.F. (0.265 AC.)

EX. HARD SURFACES ON LOT: NONE NEW HARD SURFACES ON LOT: MAIN HOUSE ROOF: 1.771 S.F. DRIVEWAY: WALKS & PATIOS

TOTAL NEW ON LOT: NEW HARD SURFACES: 4,678 S.F. LOT PERVIOUS: 6,845 S.F.

## STORM DRAINAGE NOTES:

- 1. FRAME AND GRATE FOR CONTROL STRUCTURE SHALL BE SET DIRECTLY OVER THE LADDER AND OFFSET SO THAT THE OVERFLOW PIPE SHALL BE VISIBLE AT THE EDGE OF THE ACCESS OPENING. 2. THE FLOW CONTROL MANHOLE SHALL BE A STANDARD TYPE II CATCH
- 3. ALL STEEL PIPE AND PARTS SHALL BE GALVANIZED.

BASIN. LADDER RUNS SHALL BE UNIFORMLY SPACED 12" TO 16 1/2 "

- 4. THE STORAGE PIPE SHALL GENERALLY HAVE A MINIMUM OF 2 FEET OF
- 5. 6" & 8" PVC PIPE SHALL MEET ASTM D3034 SDR-35 6. FOOTING/ WALL DRAINAGE SYSTEM AND ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS MADE AT LEAST ONE FOOT BELOW THE FOOTING/ WALL DRAINAGE SYSTEM AND DOWN SLOPE OF THE BUILDING FOUNDATION. PROVIDE BACKWATER VLAVES WHERE NOTED. A PUMP MAY BE REQUIRED FOR THE POOL FOOTING
- 7. APPLICANTS ARE REQUIRED TO CALL FOR INSPECTIONS. IF THE WORK DOES NOT CONFORM TO THE APPROVED PLANS, OR THE INSPECTION
  REVEALS OTHER CONDITIONS THAT REQUIRE MODIFICATIONS OR ADDITIONAL INFORMATION, THAT PORTION OF THE WORK WILL BE STOPPED. NO FINAL OCCUPANCY SHALL BE PERMITTED UNTIL ALL ON-SITE STORMWATER MANAGEMENT BMPS AND OTHER DRAINAGE CONTROL FACILITIES ARE
- COMPLETED, INSPECTED AND APPROVED. 8. APPLICANTS MAY BE REQUIRED TO OBTAIN A STREET OPENING PERMIT IF DRAINAGE WORK IS TO BE DONE IN THE CITY'S RIGHT-OF-WAY. IF THE IMPROVEMENTS INCLUDE A CONCRETE DRIVEWAY THAT IS TO EXTEND INTO THE PUBLIC RIGHT-OF-WAY, A PUBLIC PLACE USE PERMIT IS REQUIRED FOR THAT PORTION OF THE DRIVEWAY LOCATED WITHIN THE PUBLIC



NEW 2" SUPPLY LINE TO NEW 1½" WATER METER

APPROX. LOCATION
EX. 8" CI WATER LINE
PER CITY GIS RECORDS.

New and Replaced

Impervious Surface Area

500 to 1,000 sf

1,001 to 2,000 sf

2,001 to 3,000 sf

3,001 to 4,000 sf

4,001 to 5,000 sf

ON-SITE DETENTION DESIGN FOR PROJECTS BETWEEN 500 SF AND 9,500 SF NEW PLUS REPLACED IMPERVIOUS SURFACE AREA

Lowest Orifice Distance from Outlet Invert Second Orifice

to Second Orifice (ft) Diameter (in)

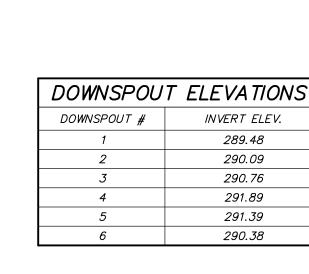
3.2

3.3

2.9

2.9

**Detention Pipe** 



THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE

**SOIL AMENDMENT NOTE:** 

MAIN FLOOR 297.00 GARAGE FLOOR 295.67

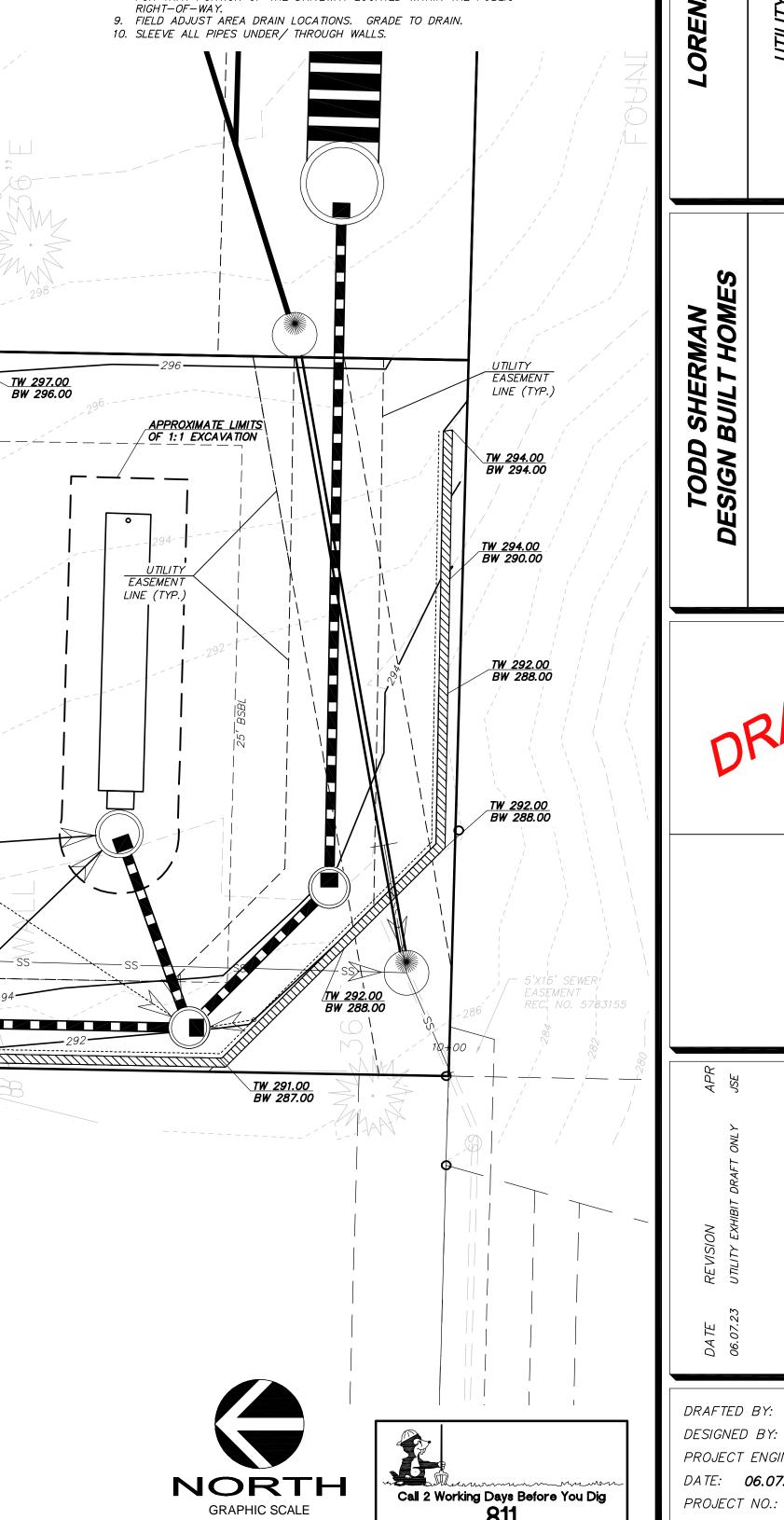
SFR LOT

**COVERED** 

TW 294.00 BW 290.00

TW 292.00 BW 288.00

BED AREAS. STOCKPILE SITE DUFF AND TOPSOIL FOR ALL DISTURBED PERVIOUS AREAS AND REAPPLY WITH SOIL AMENDMENT AFTER GRADING AND CONSTRUCTION. MINIMUM AND PLANTING BEDS TO BE DETERMINED)



DRAFTED BY: **JSE** DESIGNED BY: JSE PROJECT ENGINEER: MAJ *DATE:* **06.07.23** PROJECT NO.: 21071 Utilities Underground Location Center

(ID,MT,ND,OR,WA)

 $R: \2021 \0 \21071 \3 \Drawings \Plots \Engineering \SFR \BLA \04-3UT21071.dwg 6/7/2023 9:16:09 AM COPYRIGHT © 2023, D.R. STRONG CONSULTING ENGINEERS IN COPYRIGHT © 2023, D.R. STRONG C$ 

DRAWING: C4

D.R. STRONG

**CONSULTING ENGINEERS** 

ENGINEERS PLANNERS SURVEYORS

620 - 7th AVENUE KIRKLAND, WA 98033

O 425.827.3063 F 425.827.2423

OFFSITE DRIVEWAY: TOTAL PROJECT HARD SURFACES: 4,775 S.F.

TOTAL P.G.H.S.:

4,678 S.F. (40.6%)

FG 295.50

CONC. DRIVEWAY

FG 295.67 TW 299.50 BW 295.54

ROOF OVERHANG

FG 295.76

FG 295.41

FG 293.66

FG 293.69

WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

LAWN AND LANDSCAPE AREA NOTE:

AREA (A) ENCOMPASSES THE ENTIRE SITE OUTSIDE OF HARD SURFACÉS. SEE LANDSCAPE PLANS FOR TURF AND PLANTING SCARIFICATION DEPTH 8-INCHES. PROVIDE A TOTAL OF 167 C.Y. OF AMENDMENT FOR AN AREA OF 6,752 S.F. (AREAS FOR TURF

# LORENZINI SFR

#### Table 1

ON-SITE DETENTION DESIGN FOR PROJECTS BETWEEN 500 SF AND 9,500 SF NEW PLUS REPLACED IMPERVIOUS SURFACE AREA									
New and Replaced		Detention Pipe Length (ft)		Lowest Orifice Diameter (in) <sup>(3)</sup>		Distance from Outlet Invert to Second Orifice (ft)		Second Orifice Diameter (in)	
Impervious Surface Area (sf)	Detention Pipe Diameter (in)	B soils	C soils	B soils	C soils	B soils	C soils	B soils	C soils
500 to 1,000 sf	36"	30	22	0.5	0.5	2.2	2.0	0.5	0.8
	48"	18	11	0.5	0.5	3.3	3.2	0.9	0.8
	60"	11	7	0.5	0.5	4.2	3.4	0.5	0.6
1,001 to 2,000 sf	36"	66	43	0.5	0.5	2.2	2.3	0.9	1.4
	48"	34	23	0.5	0.5	3.2	3.3	0.9	1.2
	60"	22	14	0.5	0.5	4.3	3.6	0.9	0.9
	36"	90	66	0.5	0.5	2.2	2.4	0.9	1.9
2,001 to 3,000 sf	48"	48	36	0.5	0.5	3.1	2.8	0.9	1.5
	60"	30	20	0.5	0.5	4.2	3.7	0.9	1.1
3,001 to 4,000 sf	36"	120	78	0.5	0.5	2.4	2.2	1.4	1.6
	48"	62	42	0.5	0.5	2.8	2.9	0.8	1.3
	60"	42	26	0.5	0.5	3.8	3.9	0.9	1.3
	36"	134	91	0.5	0.5	2.8	2.2	1.7	1.5
4,001 to 5,000 sf	48"	73	49	0.5	0.5	3.6	2.9	1.6	1.5
	60"	46	31	0.5	0.5	4.6	3.5	1.6	1.3

### GENERAL NOTES:

- 1. SITE PLAN PROVIDED BY CLIENT ON APRIL 22, 2022.
  2. WALL/FOOTING/ LAWN UNDERDRAIN DRAINAGE SYSTEM AND ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS MADE AT LEAST ONE FOOT BELOW THE WALL/FOOTING/ UNDERDRAIN DRAINAGE SYSTEM AND DOWN SLOPE OF THE WALL/BUILDING FOUNDATION AND DOWNSTREAM OF THE
- 3. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES SHOWN, OR NOT SHOWN IN THEIR PROPER LOCATION.
- 4. CONTRACTOR SHALL POT—HOLE LOCATION OF EXISTING UTILITIES TO BE RECONNECTED PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
- 5. CONTRACTOR TO VERIFY CONDITION AND GOOD WORKING ORDER OF ALL EXISTING UTILITIES TO BE RECONNECTED OR RE-USED PRIOR TO START OF CONSTRUCTION.
- 6. SOILS ON THE SITE CONSISTS OF KITSAP SILT LOAM (KpB) PER THE NRCS WEB SOIL SURVEY.
- 7. ROOF DRAINS SHALL BE 4" OR 6" PVC AS SHOWN AND HAVE A MINIMUM SLOPE OF

8. ALWAYS CALL 811 TWO WORKING DAYS BEFORE YOU DIG.

# AREA BREAKDOWN:

EX. HARD SURFACES ON LOT: NONE

NEW HARD SURFACES ON LOT:
MAIN HOUSE ROOF: 2,867 S.F.
DRIVEWAY: 1,771 S.F.
WALKS & PATIOS 40 S.F.
TOTAL NEW ON LOT: 4,678 S.F. (40.6%)

NEW HARD SURFACES: 4,678 S.F.
LOT PERVIOUS: 6,845 S.F.
OFFSITE DRIVEWAY: 97 S.F.
TOTAL PROJECT HARD SURFACES: 4,775 S.F.

1,908 S.F.

TOTAL P.G.H.S.:

# LAWN AND LANDSCAPE AREA NOTE:

THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST—CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST—CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

# SOIL AMENDMENT NOTE:

AREA (A) ENCOMPASSES THE ENTIRE SITE OUTSIDE OF HARD SURFACES. SEE LANDSCAPE PLANS FOR TURF AND PLANTING BED AREAS. STOCKPILE SITE DUFF AND TOPSOIL FOR ALL DISTURBED PERVIOUS AREAS AND REAPPLY WITH SOIL AMENDMENT AFTER GRADING AND CONSTRUCTION. MINIMUM SCARIFICATION DEPTH 8-INCHES. PROVIDE A TOTAL OF 167 C.Y. OF AMENDMENT FOR AN AREA OF 6,752 S.F. (AREAS FOR TURF AND PLANTING BEDS TO BE DETERMINED)

# STORM DRAINAGE NOTES:

 FRAME AND GRATE FOR CONTROL STRUCTURE SHALL BE SET DIRECTLY OVER THE LADDER AND OFFSET SO THAT THE OVERFLOW PIPE SHALL BE VISIBLE AT THE EDGE OF THE ACCESS OPENING.
 THE FLOW CONTROL MANHOLE SHALL BE A STANDARD TYPE II CATCH

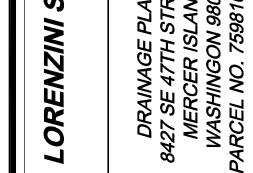
BASIN. LADDER RUNS SHALL BE UNIFORMLY SPACED 12" TO 16 1/2

- 3. ALL STEEL PIPE AND PARTS SHALL BE GALVANIZED. 4. THE STORAGE PIPE SHALL GENERALLY HAVE A MINIMUM OF 2 FEET OF
- 5. 6" & 8" PVC PIPE SHALL MEET ASTM D3034 SDR-35
  6. FOOTING/ WALL DRAINAGE SYSTEM AND ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS MADE AT LEAST ONE FOOT BELOW THE FOOTING/ WALL DRAINAGE SYSTEM AND DOWN SLOPE OF THE BUILDING FOUNDATION. PROVIDE BACKWATER VLAVES WHERE NOTED. A PUMP MAY BE REQUIRED FOR THE POOL FOOTING
- 7. APPLICANTS ARE REQUIRED TO CALL FOR INSPECTIONS. IF THE WORK DOES NOT CONFORM TO THE APPROVED PLANS, OR THE INSPECTION REVEALS OTHER CONDITIONS THAT REQUIRE MODIFICATIONS OR ADDITIONAL INFORMATION, THAT PORTION OF THE WORK WILL BE STOPPED. NO FINAL OCCUPANCY SHALL BE PERMITTED UNTIL ALL ON—SITE STORMWATER MANAGEMENT BMPS AND OTHER DRAINAGE CONTROL FACILITIES ARE
- COMPLETED, INSPECTED AND APPROVED.

  8. APPLICANTS MAY BE REQUIRED TO OBTAIN A STREET OPENING PERMIT IF DRAINAGE WORK IS TO BE DONE IN THE CITY'S RIGHT—OF—WAY. IF THE IMPROVEMENTS INCLUDE A CONCRETE DRIVEWAY THAT IS TO EXTEND INTO THE PUBLIC RIGHT—OF—WAY, A PUBLIC PLACE USE PERMIT IS REQUIRED FOR THAT PORTION OF THE DRIVEWAY LOCATED WITHIN THE PUBLIC
- RIGHT—OF—WAY. 9. FIELD ADJUST AREA DRAIN LOCATIONS. GRADE TO DRAIN.

**GRAPHIC SCALE** 

 $R: \2021\0\21071\3\Drawings\Plots\Engineering\SFR\BLA\04-3UT21071.dwg\3/29/2023\10:19:38\ AM\ COPYRIGHT\ ©\ 2023,\ D.R.\ STRONG\ CONSULTING\ ENGINEERS\ IN COPYRIGHT\ OR COPYRIGHT\ OR$ 



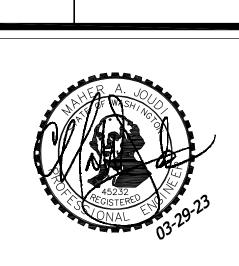
D.R. STRONG CONSULTING ENGINEERS

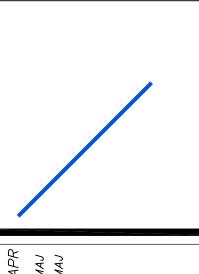
620 - 7th AVENUE KIRKLAND, WA 98033

O 425.827.3063 F 425.827.2423



TODD SHERMAN DESIGN BUILT HOMES





DATE REVISION APR 1.30.22 REVS. PER AGENCY COMMENTS MAJ 33.29.23 REVS. PER AGENCY COMMENTS MAJ

DRAFTED BY: JSE

DESIGNED BY: JSE

PROJECT ENGINEER: MAJ

DATE: 07.01.22

PROJECT NO.: 21071

DRAWING: **C4**SHEET: **4** OF **6** 

Utilities Underground Location Center (ID,MT,ND,OR,WA)

