

CONSTRUCTION PLANS FOR CHILDREN'S LIGHTHOUSE EARLY LEARNING CENTER

A TRACT OF LAND BEING PART OF OUTLOT A OF "OAKHURST PLAT ONE" PLAT BOOK 47 PAGES 369-372,

WITHIN U.S. 1778, TOWNSHIP 46 NORTH, RANGE 2 EAST TOWNSHIP 46 NORTH, RANGE 2 EAST CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI

S	SANITARY SEWER MANHOLE		UTILITY BOX
\Box	FLARED END SECTION	0	FOUND MONUN
S	CURB/AREA INLET	•	SET MONUMEN
Щ	GRATED INLET		GRAVEL
ЕВ	ELECTRIC BOX		
ΓP	TELEPHONE CABLE PEDESTAL		ASPHALT
гв	TELEPHONE BOX		CONCRETE
ATR X	ELECTRIC METER	——UGE ——	BURIED ELECT
atr X	GAS METER	—— OHW——	OVERHEAD UT
MTR X	WATER METER	—GAS—	BURIED GAS
_ , ⊴	MAILBOX	— w —	BURIED WATER
ည	POWER POLE	— F0 —	BURIED FIBER
4		— T —	BURIED TELEP
v22	GOT WIRE	—— SAN——	SANITARY SEV
33	TREE	— x —	FENCE LINE
₽ ^{BM}	BENCHMARK	⊕ ^{BH}	BORE HOLE

Conditions of Approval From Planning and Zoning

- 1. PROVIDE A PHOTOMETRIC PLAN 2. EXTEND THE PROPOSED BUFFER FENCE TO THE EASTERN LINE
- 3. PROVIDE HVAC SCREENING DETAILS
- 4. PROVIDE A CONTRIBUTION FOR A SIDEWALK ALONG SOMMERS ROAD
- 5. PROVIDE A CONCRETE ADA ACCESSIBLE PEDESTRIAN WALKWAY FROM THE BUILDING TO THE WALKWAY ALONG OAKHURST DRIVE. 6. PROVIDE APPROVAL FROM ST. CHARLES COUNTY FOR THE
- CONNECTION TO SOMMERS ROAD. 7. ADD A SIDEWALK CONNECTION FROM THE TRAIL TO THE BUILDING.
- 8. THE BUFFERYARD FENCE AND LANDSCAPING SHOWN ON LOT 2 SHALL BE INSTALLED IN CONJUNCTION WITH THE DEVELOPMENT OF LOT 1.

DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES

- . Underground utilities have been plotted from available information and therefore location shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction of
- 2. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals. 3. All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match
- preconstruction conditions. 4. All fill including places under proposed storm and sanitary sewer lines and paved areas including trench backfills within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T—180 Compaction Test (ASTM 01557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and
- non-pumping during proofrolling and compaction 5. The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system. The contractor will be required to install a brick bulkhead on the downstream side of the first new manhole constructed when connecting into existing sewers.
- 6. All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor
- 7. It is the responsibility of the contractor to adjust all sanitary sewer manholes (that are affected by the development) to finish grade.
- 8. Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat. 9. All sanitary sewer construction and materials shall conform to the current construction standards of the Duckett 6. PARKING REQUIRED:
- Creek Sanitary Distric
- 10. The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination of inspection 11 All sanitary connections shall be designed so that the minimum point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 21% feet.
- 12. All sanitary sewer manholes shall be watertight in accordance with Missouri Dept. of Natural Resources specification 10 CSR 20-8.120(6)(F) 1.
- 13. All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2 inch to 1 inch granular stone bedding uniformly araded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe. Final backfill material shall be of suitable material removed from excavation except as other material is specified. Debris, frozen material, large rocks or stones, or other unstable materials shall not be used within 2 feet from top of pipe.
- 14. All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas
- 15. All pipes shall have positive drainage through manholes. Flat invert structures not allowed. 16. Epoxy Coating shall be used on all sanitary sewer manholes that receive pressurized mains.
- 17. All creek crossings shall be lined with rip-rap as directed by District inspectors.
- 18. Brick shall not be used on sanitary sewer manholes. 19. Existing sanitary sewer service shall not be interrupted.
- 20. Maintain access to existing residential driveways and streets.

21. Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot I Mission-type couplings will not be allowed

22. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer

- 23. 'Type N' Lock-Type Cover and Locking Device (Lock-Lug) shall be used where lock-type covers are required.
- 24. All sanitary sewer system work shall be conducted under the inspection of a representative of the District. All work may not require inspection but the District's representative may designate specific areas that must be inspected before the work is backfilled. All testing must be witnessed by the District's Inspector and the Contractor shall furnish all testing equipment as approved by the District. Testing shall include:
- A mandrel test of all gravity sewers using a mandrel with a diameter that has a diameter 95% of the inside pipe diameter. If the mandrel test fails on any section of pipe, that section of pipe shall be uncovered and replaced. No expansion devices will be allowed to be used to "force" the pipe that is deformed back into round. Any string lines used in mandrel testing shall be removed after testing is completed. Deflection testing cannot be conducted prior to 30 days after final backfill. • An air pressure test of all gravity sewers to a pressure of 5 PSI with no observed drop in pressure during a test period of 5 minutes
- A vacuum test of all manholes for a period of 1 minute and the vacuum shall be 10" of mercury and may not drop below 9" of mercury at the end of the 1 minute test.

City approval of any construction site plan does not mean that any building can be constructed on the lots without meeting the building setbacks as required by the zoning codes.

All installations and construction shall conform to the approved engineering drawings. However, if the developer chooses to make minor modifications in design and/or specifications during construction, they shall make such changes at their own risk, without any assurance that the City Engineer will approve the completed installation or construction. It shall be the responsibility of the developer to notify the City Engineer of any changes from the approved drawings. The developer may be required to correct the installed improvements so as to conform to the approved engineering drawings. The developer may request a letter from the Construction Inspection Division regarding any field changes approved by the City Inspector.

Lighting values will be reviewed on site prior to the final occupancy inspection.



N	PROPERTY	

Utility Contacts

Sanitary Sewer DUCKETT CREEK SEWER DISTRICT 3550 Highway K 0'Fallon, MO. 63368 636-441-1244

PUBLIC WATER SUPPLY DISTRICT No. 2 100 Water Drive O'Fallon, MO. 63368 636-561-3737

Fire Department Wentzville Fire Protection District 209 W. Pearce Blvd. O'Fallon, MO. 63385 636-327-6239

Electric CUIVRE RIVER ELECTRIC COOPERATIVE 8757 Highway N Lake Saint Lóuis, MO. 63367 636-695-4700

Spire 1999 Trade Center Drive St. Peters, MO 63376 314-978-2663

Telephone Centurylink 1151 Century Tel Dr. Wentzville, MO 63385 636-332-7261

Charter Communications 941 Charter Commons Town & Country, MO 63017 1-888-438-2427

DEVELOPMENT NOTES AREA OF TRACT: 4.97 ACRES

PROPOSED LOT 1 - 2.44 ACRES PROPOSED LOT 2 - 1.63 ACRES PROPOSED COMMON GROUND - 0.90 ACRES 2. ZONING: C-2 GENERAL BUSINESS DISTRICT

SETBACKS FOR C-2 ZONING GENERAL BUSINESS DISTRICT: MINIMUM FRONT YARD: 25 FEET MINIMUM SIDE YARD: 0 FEET (IF ABUTS RESIDENTIAL/OFFICE ZONING THEN SAME AS RESIDENTIAL/OFFICE SIDE SETBACK – 6 FEET) 0 FEET (IF ABUTS RESIDENTIAL/OFFICE THEN MINIMUM REAR YARD: 10 FEET MAXIMUM BUILDING HEIGHT: 50 FEE1

WE HAVE DETERMINED THE HORIZONTAL LOCATION OF THIS TRACT OF LAND IN ST. CHARLES COUNTY, MO, BY SCALING THE PROPERTY IN REFERENCE TO THE "FLOOD INSURANCE RATE MAP (FIRM), ST. CHARLES COUNTY, MISSOURI AND INCORPORATED AREAS", PANEL 410 OF 525, MAP NUMBER 29183C0410 E (CITY OF O'FALLON COMMUNITY PANEL NUMBER 290316 0410 E) WITH AN EFFECTIVE DATE OF AUGUST 2, 1996, BY EXPRESS REFERENCE TO THIS MAP AND ITS

LEGEND, THIS TRACT IS INDICATED TO BE WITHIN THE FOLLOWING ZONE(S):

ZONE X. ZONE X IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. CURRENT LAND OWNER: HIGHWAY DD INVESTMENT GROUP LLC

1480 WOODSTONE DRIVE SUITE 215 ST. CHARLES, MO 63304

> DAYCARE AND PRE-SCHOOLS ONE (1) SPACE PER SIX (6) PUPILS, PLUS ONE (1) SPACE PER EMPLOYEE, BASED UPON THE MAXIMUM NUMBER OF PUPILS FOR WHICH THE FACILITY IS LICENSED BY THE STATE OF MISSOURI. 198 PUPILS / 6 = 33 SPACES REQUIRED

30 EMPLOYEES = 30 SPACES REQUIREDTOTAL PARKING REQUIRED = 63 SPACES

TOTAL PARKING PROVIDED = 64 SPACES INCLUDING 4 ADA BICYCLE PARKING SPACES @ 1 PER 15 VEHICLE PARKING SPACES 64/15=4.26~5 BICYCLE PARKING SPACES REQUIRED AND PROVIDED

ALL PAVING TO BE IN ACCORDANCE WITH THE CITY OF O'FALLON STANDARDS AND SPECIFICATIONS.

SIDEWALKS, CURB RAMPS, RAMP AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, AND SPECIFICATIONS AND SIGNAGE.

9. A PHOTOMETRIC PLAN WILL BE SUBMITTED WITH THE CONSTRUCTION PLANS. LIGHTING VALUES WILL BE REVIEWED ON SITE PRIOR TO THE FINAL OCCUPANCY INSPECTION. CORRECTIONS WILL NEED TO BE MADE IF NOT IN COMPLIANCE WITH CITY STANDARDS. ALL LIGHTING TO BE DOWNCAST.

10. ALL PROPOSED UTILITIES AND/OR UTILITY RELOCATIONS SHALL BE LOCATED UNDERGROUND.

11. LANDSCAPING REQUIREMENTS: SEE LANDSCAPE PLAN BY LANDSCAPE ARCHITECT FOR CALCULATIONS AND PLAN.

12. THE MAXIMUM SLOPE SHALL BE 3:1.

13. ALL HVAC AND MECHANICAL UNITS ON SITE SHALL BE PROPERLY SCREENED AS REQUIRED BY CITY CODE 400.278. ROOFTOP UNITS SHALL BE SCREENED BY A PARAPET WALL THAT EXTENDS AROUND THE ENTIRE PERIMETER OF THE BUILDING; THE PARAPET SHALL HAVE A MINIMUM HEIGHT THAT IS AT LEAST AS TALL AS THE TALLEST UNIT MOUNTED ON THE ROOF; GROUND MOUNTED HVAC AND MECHANICAL UNITS SHALL BE SCREENED BY FENCING, VEGETATION, OR SOME OTHER MEANS (APPROVED BY THE PLANNING AND ZONING COMMISSION) THAT HAS A MINIMUM HEIGHT THAT IS AT LEAST AS TALL AS THE TALLEST UNIT BEING SCREENED.

14. ANY PROPOSED SIGNAGE SHALL BE REVIEWED UNDER A SEPARATE PERMIT PROCESS.

CONDITIONS OF APPROVAL BY CITY: Provide a record plat for the site. Include/address the requirements from Planning and Zoning Commission approval letter dated 7/7/2023 in the record plat document. Provide an executed copy of the Stormwater BMP Maintenance Agreement. CITY OF O'FALLON ENGINEERING DEPARTMENT ACCEPTED FOR CONSTRUCTION BY: <u>Karl Ebert</u> DATE <u>12/06/2023</u> PROFESSIONAL ENGINEER'S SEAL INDICATES RESPONSIBILITY FOR DESIGN

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF

PROJECT TITLE:	CHILDREN'S LIGHTHOUSE	EARLY LEARNING CENTER 2570 SOMMERS ROAD	O'FALLON, MISSOURI 63368	Bax Project #03-12478E Issue Date: 9/21/20	
-	ENGINEERING PLANNING	221 Point West Blyd.	636-928-5552 FAX 928-1718		
DISCLAIMER OF RESPONSIBILITY I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or surve.					
	-3-23	REVISION city, cou pswd2 co	S nty, dc: omment	sd & s	
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Developer / Owner: JAFRI LLC. ASHLEY FANGM/	4010 CORKWOOD CT. COLUMBIA, MO 65203	417-766-8874 - ashleyfangma	COVER SHEET			
P+Z No.	1	# 23	-004744			
Approva	l Date	🛱 July	6, 2023			
City No.		#				
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