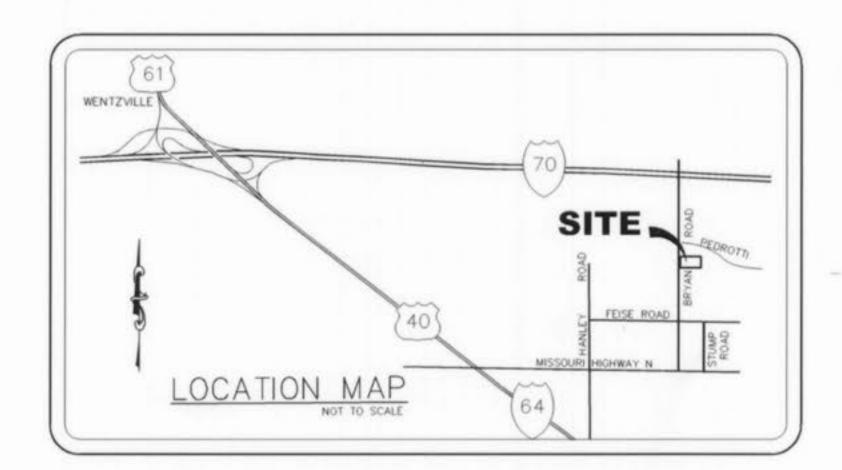
A SET OF AS-BUILT PLANS FOR CHILD HAVEN DAY CARE

A TRACT OF LAND IN TOWNSHIP 47 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN

THE NORTHWEST QUARTER OF SECTION 31, ST. CHARLES COUNTY, MISSOURI



LEGEND

C.L.	CURB INLET	O	STREET LIGHT
D.C.L	DOUBLE CURB INLET		
AL	AREA INLET	-582	EXISTING CONTOUR
M.H.	MANHOLE FLARED END SECTION	582	PROPOSED CONTOUR
E.P.	END PIPE	Sv.	STREET SIGN
C.P.	CONCRETE PIPE	75	
R.C.P.	REINFORCED CONCRETE PIPE		NO PARKING SIGN
C.M.P.	CORRUGATED METAL PIPE	w	The Park Company
C.L.P.	CAST IRON PIPE	₩ Pd	WATER VALVE
P.V.C.	POLY VINYL CHLORIDE (PLASTIC) CLEAN OUT	8.0.	BLOW OFF ASSEMBLY
*	FIRE HYDRANT	1-	FLOWLINE ELEVATION OF HOUSE CONNECTION
	STORM SEWER	-	
-0-	SANTARY SEWER	1	FLOWLINE ELEVATION OF SEWER MAIN

ANDSCAPE LEGEND INDICATES PROPOSED HARDWOOD TREE (ashes, oaks, maples, birches, sweet gums) minimum 2" catiper INDICATES PROPOSED EVERGREEN TREES minimum 6 ft, height INDICATES PROPOSED EVERGREEN SHRUBS (mugho pines, yews, junipers, hollies, boxwoods) INDICATES PROPOSED ORNAMENTAL SHRUBS (spireas, forsythia, barberries, privets, lilacs) **LANDSCAPING AS DEPICTED IS SUBJECT TO FINAL ** DESIGN BY A QUALIFIED LANDSCAPE DESIGNER

VEGETATIVE ESTABLISHMENT For Urban Development Sites APPENDIX A

Seeding Rates: Permonent: Tall Fescue - 30 lbs./ac. Smooth Brome - 20 lbs./ac. Combined Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.

Temporary: Wheat or Rye - 150 lbs./ac. (3.5 lbs. per square foot) - 120 lbs./ac. (2.75 lbs. per square foot)

Seeding Periods: Fescue or Brome - March 1 to June 1 August 1 to October 1 Wheat or Rye - March 15 to November 1 March 15 to September 15

Mulch Rates: 100 lbs. per 1,000 sq. feet (4,356 lbs. per acre)

Fertilizer Rates: Nitrogen 30 lbs./ac. 30 lbs./ac. Phosphate 30 lbs./ac. Potassium

Lime

* ENM = effective neutralizing material as per State evaluation of guarried rock.

600 lbs./ac. ENM*

GENERAL NOTES

- 1. 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 the improvements.
- 2. All trench backfills under paved areas shall be granular backfill, and shall be compacted to 90% of the maximum density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test. (A.S.T.M.-D-1557). All other trench backfills may be earth material (free of large clods or stones). All trench backfills shall be water jetted.
- 3. No area shall be cleared without the permission of the Project Engineer.
- 4. The City of O'Fallon and City of O'Fallon Sewer shall be notified 48 hours prior to construction for coordination and inspection.
- 5. All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match pre-construction conditions.
- 6. All construction and materials shall conform to the current construction standards of the City of O'Fallon.
- 7. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.
- 8. No slopes shall exceed 3(H): 1(V).
- 9. The Contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The Contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltaion fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon and/or MODOT. The Contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or the City of O'Fallon and/or MODOT may at their option direct the Contractor in his methods as deemed fit to protect property and improvements. Any depositing of silts or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon and/or MODOT.
- 10. Erosion control systems shall not be limited to what is shown on the plan. Whatever means necessary shall be taken to prevent siltation and erosion from entering natural streams and adjacent roadways, properties and ditches.
- 11. Sidewalks, curb ramps, ramp and accessible parking spaces shall be constructed in accordance with the current approved "American with Disabilities Act Accessibility Guidelines" (ADAAC) along with the required grades, construction materials, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAC guidelines shall take precedence and the contractor prior to any construction shall notify the Project Engineer.



CALL BEFORE -800-DIG-RITE

DEVELOPMENT NOTES

2.843 Acres

1.539 Acres 1.304 Acres

Day Care Facility

636-332-3011

636-272-3493

636-272-6620

R-1 Single Family Residential

1. Area of Tract:

2. Existing Zoning:

3. Proposed Use:

Lot 1 Area: Lot 2 Area:

4.	Area of Building:	6,550 sq.ft.
5.	The required height and building setbacks Minimum Front Yard: Minimum Side Yard: Minimum Rear Yard: Maximum Height of Building: Maximum Proposed Height:	ore as follows: 25 feet 6 feet 25 feet 35 feet 26'-4"
6.	Site is served by: City of O'Fallon Sewer AmerenUE Company St. Charles Gas Company Public Water Supply District No. 2	636-281-2858 636-639-8312 636-946-8937 636-561-3737

Verizon Telephone Company

Fort Zumwalt School District

O'Fallon Fire Protection District

8. According to the Flood Insurance Rate Map of St. Charles County, (Community Ponel number 290315 0240 E doted August 2, 1996) this property lies within zone X. Zone X is defined as an area outside the 500 year Flood Plain Limits.

9. Parking Required: Estimated number of children = 200, Employees = 20 200 / 10 = 20 spaces 20 / 1 = 20 spaces Total Parking Required: 40 spaces

Total Parking Provided: 44 spaces (Including 2 handicap space)

Loading Required: Uses with 5,000 gross floor area be provided with 1 space and 1 for every additional 20,000 s.f. Total Loading Required: 1 space Total Loading Provided: 1 space

10. Landscape Required: 44 (spa.) x 270 = 11,880 S.F. 11,880 sq. ft. x 0.06 (%) = 712.80 Total Interior Landscape Required: 712.80 S.F. Total Interior Landscape Provided: 1,298.09 S.F.

10,811.59 S.F. / 3,000 S.F. = 3.60 ~ 4 Trees Total Open Landscape Required: 4 Trees Total Open Landscape Provided: 30 Trees

115.08 L.F. / 40 L.F.=2.88 ~ 3 Trees Total Street Trees Required: 3 Trees Total Street Trees Provided: 3 Trees

Building = 6,550.86 sq.ft. Povement = 33,779.88 sq.ft. Green Space = 83,502.82 sq.ft.

11. Site Coverage Calculations:

- 12. All new utilities will be located underground. 13. Detention will be provided per City Ordinance 405.240
- 13. Reference Benchmark: Elevation 643.21 Datum (U.S.G.S.) Existing 600 noil in power pole at the Northwest Corner of Feise Road and Bryan Road as shown on improvement plans for Feise Road, O'Fallon Project No.210-005, as prepared by George Butler

Site Benchmark: Elevation 569.15 Datum (U.S.G.S.) Old iron pipe at the Northeast corner of the subject property, being also the Southwest corner of Lot 8 of "Hidden Meadows"

> GRADING QUANTITY 2,361 cu.yda. (INCLUDES 15% SHRINKAGE)

The above yardage is an approximation only, NOT FOR BIDDING PURPOSES. Contractors shall verify quantities prior to construction

It is the intention of the Engineer for the earthwork to balance on-site. The Engineer shall be notified if any difficulties arise in

PRINCIPALS & STANDARDS

- 1. All excavations, grading, or filling shall have a finished grade not to exceed a 3:1 slope (33%). Steeper grades may be approved by the designated official if the excavation is through rock or the excavation or the fill is adequately protected (a designed head wall or toe wall may be required). Retaining walls that exceed a height of four (4) feet shall require the construction of safety guards as identified in the appropriate section(s) of the adopted BOCA Codes and must be approved by the City Building Department. Permanent safety guards will be constructed in accordance with the appropriate section(s) of the adopted BOCA Codes.
- 2. Sediment and erosion control plans for sites that exceed 20,000 square feet of grading shall provide for sediment or debris basins, silt traps or filters, staked straw bales or other approved measures to remove sediment from run-off waters. Temporary siltation control measures shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.
- 3. Where natural vegetation is removed during grading, vegetation shall be re-established in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible during the next seeding period after grading has been completed.
- 4. When grading operations are completed or suspended for more than 30 days permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be

All finished grades (areas not to be disturbed by future improvement) in excess of 20% slopes (5:1) shall be mulched and tacked at the rate of 100 pounds per 1,000 square feet when seeded.

- 5. Provisions shall be made to accommodate the increased runoff caused by changed soils and surface conditions during and after grading. Unvegetated open channels shall be designed so that gradients result in velocities of 2 fps (feet per second) or less. Open channels with velocities more than 2 fps and less that 5 fps shall be established in permanent vegetation by use of commercial erosion control blankets or lined with rock riprap or concrete or other suitable materials. Detention basins, diversions or any other appropriate structures shall be constructed to prevent velocities above 5 fps.
- 6. The adjoining ground to development sites (lots) shall be provided with protection from accelerated and increased surface water, silt from erosion, and any other consequence of erosion. Run-off water from developed areas (parking lots, paved sites and buildings) above the area to be developed shall be directed to diversions, detention basins, concrete gutters and/or underground outlet systems. Sufficiently anchored straw bales may be temporarily substituted.
- 7. Development along natural watercourses shall have residential lot lines, commercial or industrial improvements, parking areas or driveways set back a minimum of 25 feet from the top of the existing stream bank. The watercourse shall be maintained and made the responsibility of the subdivision trustees or in the case of a site plan by the property owner. Permanent vegetation should be left intact. Variances will include designed stream bank erosion control measures. FEMA and U.S. Army Corps of Engineers guidelines shall be followed where applicable regarding site development areas designated as flood plains and wetlands.
- 8. All lots shall be seeded and mulched or sodded before an occupancy permit shall be issued except that a temporary occupancy permit may be issued by the Building Department in cases of undue hardship because of unfavorable ground conditions.

COVER SHEET SITE PLAN PROFILES AND DETAILS

SEWER MEASUREMENTS

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS. ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED

DARREL R. NUMBER LS-2285

EASEMENTS EXCEPT AS FOLLOWS:

ASSULTS NOTE: ALL DISTANCE AND SLOPE CALCULATIONS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

I hereby specify that the documents intended to be authenticated by my sed are limited to this sheet, and I hereby disclaim any responsibility for all other Browings. Specifications, Estimates, Reports or other documents or instruments relating to an intended to be used for any part or parts of the architectural or experience projects or acceptances.

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PLANNING SURVEYING

1052 South Cloverleaf Drive St. Peters, MO. 63376-6445 636-928-5552 FAX 928-1718

3-10-03 01-11610 PROJECT NUMBER 11610ASB.DWG FILE NAME DRAWN

DESIGNED CHECKED

Child Haven - Asbuits 1/3

GRADING NOTES

1. A Geotechnical Engineer shall be employed by the owner and be on site

during grading operations. All soils tests shall be verified by the

2. The grading contractor shall perform a complete grading and compaction

implied there from, all in accordance with the plans and notes as

4. All areas shall be allowed to drain. All low points shall be provided with

storm and sanitary sewer lines and/or paved areas, shall be compacted

to 90% of maximum density as determined by the "Modified A.A.S.H.T.O.

T-180 Compaction Test," (A.S.T.M.-D-1557), or 95% maximum density

filled places within public roadways shall be compacted from the bottom of the fill up to 90% maximum density as determined by the Modified A.A.S.H.T.O. T-180 Compaction Test or 95% of maximum density as

determined by the Standard Proctor Test A.A.S.H.T.O. T-99, Method "C"

(A.S.T.M.-D-698). All test shall be verified by a soils engineer

sediment control basins and/or straw bales should be implemented

bare without being seeded and mulched. Care should be exercised

as soon as possible. No graded area is to be allowed to remain

existing downstream storm drainage systems. All erosion control

systems shall be inspected and necessary corrections made within

24 hours of any rain storm resulting in 1/2 inch of rain or more.

structure which is scheduled to be razed for this development must be

7. Debris and foundation material from any existing on-site building or

8. All trash and debris on site, either existing or from construction,

9. Soft soil in the bottom and banks of any existing or former pond

10. Site preparation includes the clearance of all stumps, trees, bushes,

right-of-way locations or on any storm sewer locations.

sites or tributaries or on any sediment basins or traps should be

removed, spread out and permitted to dry sufficiently to be used

as fill. None of this material should be placed in proposed public

shrubs, and weeds; the grubbing and removal of roots and other

surface obstructions from the site; and the demolition and removal

of off-site. Topsoil and grass in the fill areas shall be thoroughly

disced prior to the placement of any fill. The Soils Engineer shall

11. Compaction equipment shall consist of tamping rollers, pneumatic-tired

to avoid the creation of a layered fill without proper blending of

12. The Soils Engineer shall observe and test the placement of the fill to

13. The Soils Engineer shall notify the Contractor of rejection of a lift of fill

14. All areas to receive fill shall be scarified to a depth of not less than 6

fill shall have horizontal benches cut into the slopes before the

15. The sequence of operation in the fill areas will be fill, compact, verify

moisture contents during the filling operation are those at which

16. The surface of the fill shall be finished so that it will not impound

satisfactory dry densities can be obtained. The acceptable moisture

placed shall be removed at the Contractor's expense.

to 8 percent above the optimum moisture control.

layer under placement to freeze.

CATEGORY

Fill in building areas below footings

Fill other than building areas

Fill under slabs, walks, and pavement

by modified Proctor Test (A.S.T.M.-D-1557).

following table:

Natural subgrade

Pavement subgrade

Pavement base course

fill and obtain notification from the Soils Engineer of its acceptance

acceptable to the Soils Engineer. The roller shall be designed so as

verify that specifications are met. A series of fill density tests will be determined on each lift of fill. Interim reports showing fill quality will be

or portion thereof. The Contractor shall rework the rejected portion of

inches and then compacted in accordance with the specifications given

placement of any fill. The width and height to be determined by the

Soils Engineer. The fill shall be loosely placed in horizontal layers not

exceeding 8 inches in thickness and compacted in accordance with the

specifications given below. The Soils Engineer shall be responsible for

determining the acceptability of soils placed. Any unacceptable soils

acceptable soil density, and repetition of the sequence. The acceptable

contents during the filling operation in the remaining areas are from 2

water. If at the end of a days work it would appear that there may

be rain prior to the next working day, the surface shall be finished

lifts. Fill shall not be placed on frozen ground, nor shall filling

17. Fill and backfill should be compacted to the criteria specified in the

smooth. If the surface has been finished smooth for any reason, it

shall be scarified before proceeding with the placement of succeeding

operations continue when the temperature is such as to permit the

Measured as a percent of the maximum dry density as determined

Moisture content must be within 2 percent below or 4 percent

above optimum moisture content if fill is deeper than 10 feet.

PERCENT COMPACTION

90%

90%

88%

88% 90%

90%

below. Natural slopes steeper than 1 vertical to 5 horizontal to receive

rollers, vibratory rollers, or high speed impact type drum rollers

of any man-made structures. The material shall be properly disposed

must be removed and properly disposed of off-site.

to prevent soil from damaging adjacent property and silting up

6. A sediment control plan that includes monitored and maintained

concurrent with grading and backfilling operations.

as determined by the Standard Proctor Test A.A.S.H.T.O. T-99. All

3. The Contractor shall notify the Soils Engineer at least two days in

5. All filled places, including trench backfills, under buildings, proposed

interpreted by the Geotechnical Engineer.

temporary ditches.

disposed of off-site.

approve the discing operation.

made to the Owner at regular intervals.

prior to the placement of additional fill.

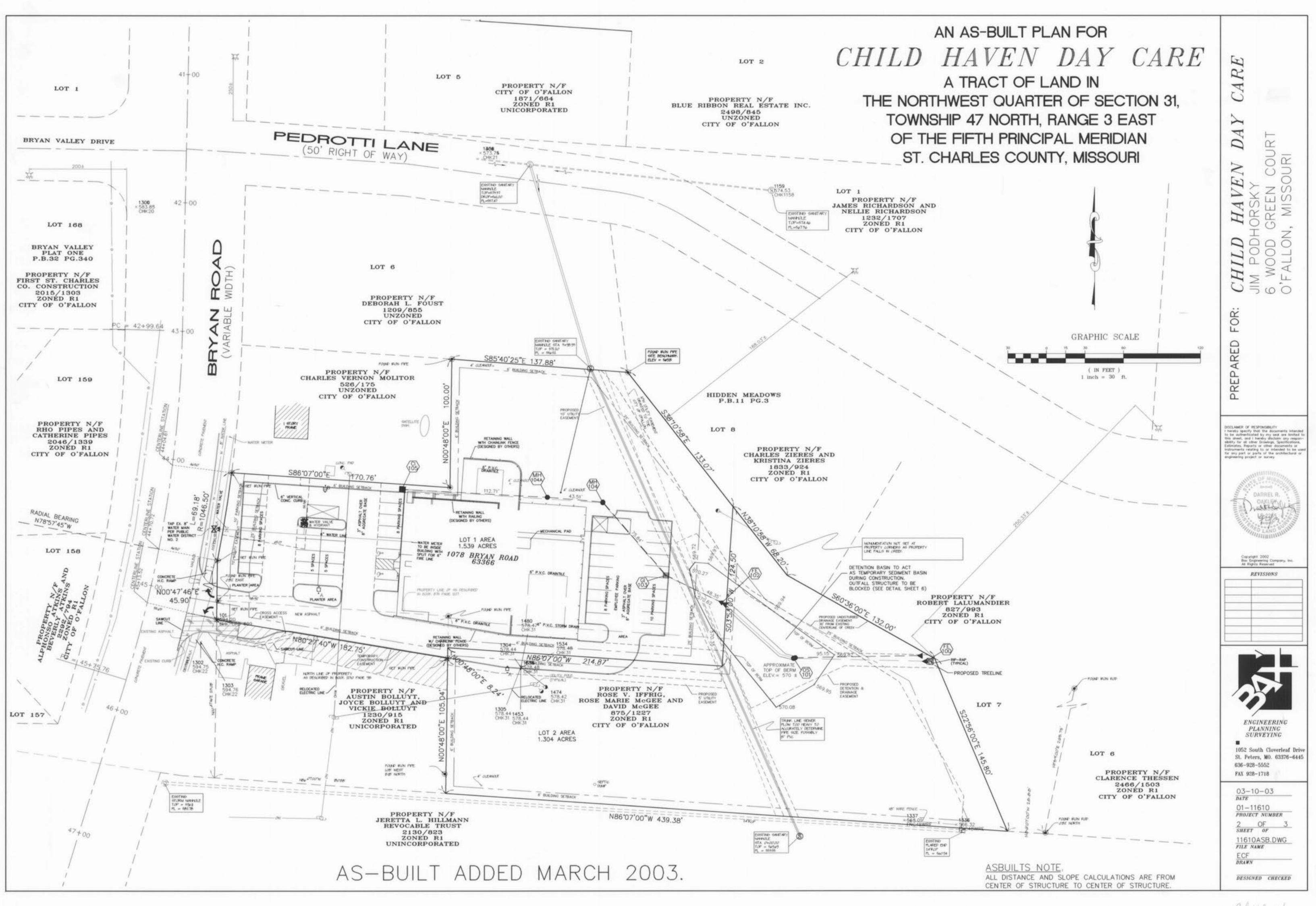
successive fill layers.

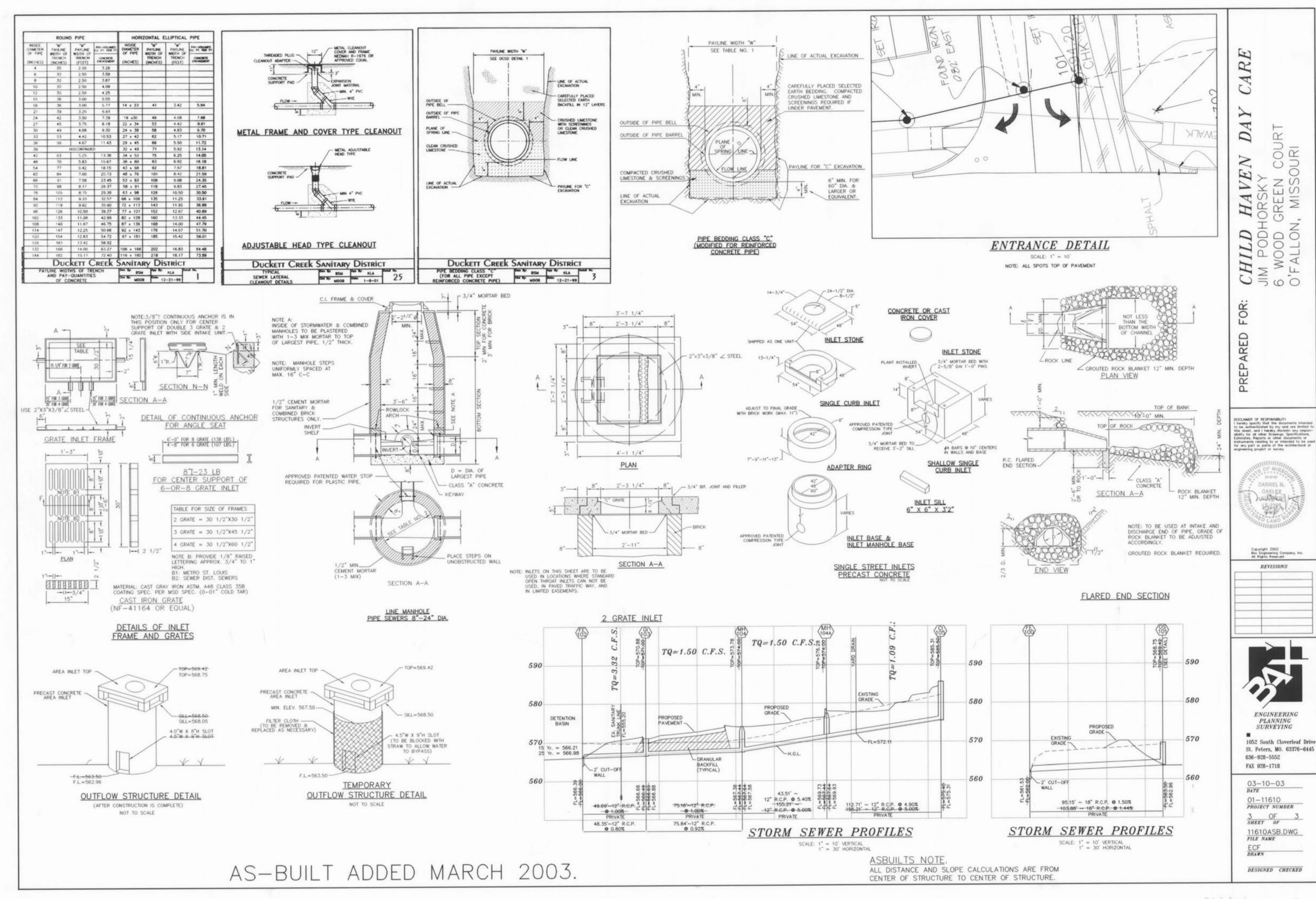
advance of the start of the grading operation.

operation as shown on the plans, stated in these notes, or reasonably

Geotechnical Engineer concurrent with the grading and backfilling

operations. The developer shall also supply the City construction inspector with the soil report(s) prior ro or during site soil testing.





Child Haven

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