

A SET OF AS-BUILT PLANS FOR A WAREHOUSE ADDITION

A TRACT OF LAND BEING ALL OF LOT 3 OF "HOFF INDUSTRIAL PARK", P.B. 40 PGS. 155-156, BEING ALSO WITHIN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 24, TOWNSHIP 47 NORTH, RANGE 2 EAST OF THE FIFTH PRINCIPAL MERIDIAN, ST. CHARLES COUNTY, MISSOURI

O'FALLON 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.

All filled places under proposed storm and sanitary sewer, proposed roads, and/or paved areas shall be compacted to 95% of the maximum density as determined by the "Modified AASHTO T-180 Compaction Test. or 100% of maximum density as determined by the standard Proctor Test AASHTO T-99. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. All filled places in proposed roads shall be compacted from the bottom up. All test shall be verified by a soil engineer concurrent with grading and backfilling operations. Ensure the moisture content of the soil in the fill areas is to correspond to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to The City of O'Fallon prior to the placement of fill. Proof rolling may be required to verify soil stability at the descretion of The City of O'Fallon.

3. No area shall be cleared without the permission of the Project Engineer.

4. The City of O'Fallon 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.

No slopes shall exceed 3(Horizontal): 1(Verticle).

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 siltation 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.

13. The Developer must supply City Construction Inspectors with soil reports prior to or during site soil testing.

14. All paving to be in accordance with St. Charles County standards and specifications except as modified by the City of O'Fallon ordinances.

15. All sidewalks, curb ramps, ramps 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, specifications and signage. If any conflict accurs between the above information and the plans, the ADAAG guidelines shall take precedence and the contractor prior to any construction shall notify the Project Engineer. Ensure at least one 8' wide handicap access aisle is provided and curb ramps do not project into handicap access aisles.

16. Brick shall not be used in the construction of storm or sanitary sewer structures.

17. The Contractor shall ensure all storm and sanitary sewer joint shall be gasketed O-Ring Type.

inspection. Corrections will need to be made if not in compliance with City

20. All sign locations and sizes must be approved separately through the Planning Division.

21. All sign post and backs and bracket arms shall be painted black using Carboline Rustbond Penetrating Sealer SG and Carboline 133 HB paint (or equivalent as approved by the City of O'Fallon and MoDOT). Sign designating street names shall be on the opposite side of the street from traffic control

22. All new utility line shall be located underground.

23. All erosion control systems shall be inspected and necessary corrections shall be made within 24 hours of any rainstorm resulting in one-half inch of rain or more.

24. All graded greas that are to remain bare for over 2 weeks shall be seeded and mulched per DNR requirements.

25. Rip-rap shown at flared ends will be evaluated in the field after installation for effectiveness and field modificied if necessary to reduce erosion on and

26. Marking to be provided on storm sewer inlets. The City will allow the following markers and adhesive procedures only as shown in the table below. "Peel and Stick" adhesive pads will not be allowed.

O'FALLON NOTES (CONTINUED)

| Manufacturer | Size | Adhesive | Style | Message (Part #) | Website |
|----------------------------|--------|----------|-------------|---|--------------------------|
| ACP International | 3 7/8" | Ероху | Crystal Cap | No Dumping Drains To Waterways (SD-W-CC) | www.acpinternational.com |
| DAS Manufacturing, Inc. | 4". | Ероху | Standard | No Dumping Drains To Stream (#SDS) | www.dasmanufacturing.com |

27. Developer must supply City Construction inspectors with soil reports prior to or during site soil testing. The soil report will be required to contain the following information on soil test curves (Proctor reports) for projects within the

1. Maximum dry density 2. Optimum moisture content

. Maximum and minimum allowable moisture content 4. Curve must be plotted to show density from a minimum of 95% Compaction and above as determined by the "Modified AASHTO T-180 Compaction Test" (A.S.T.M.-D-1157) or from a minimum of 100% as determined by the "Standard Proctor Test ASSHTO T-99, Method C" (A.S.T.M.-D-698). Proctor type must be designated on document.

5. Curve must have at least 5 density points with moisture content and sample locations listed on document.

Specific gravity. Natural moisture content.

8. Liquid limit.

9. Plastic limit.

10. Be advised that if this information is not provided to the City's Construction Inspector the City will not allow grading or construction activities to proceed on any project site.

28. Trees, organic debris, rubble, foundations and other deletrious material shall be removed for the site and disposed in compliance with all applicable laws and regulations. Landfill tickets for such disposal shall be maintained on file by the developer. Burning on site shall be allowed only be permit from the local fire district. If a burn pit is proposed the location and mitigation shall be shown on the grading plan and documented by the soils engineer.

29. HDPE pipe is to be N-12WT or equal and to meet ASTM F1417 water tight

30. If there are any physical changes to MoDot's right of way, such as grading or entrance modification, MoDOT requests the opportunity to review the plans, there may be improvements to the roadway required to support the proposed development within MoDOT's Access Management Guidelines.

31. Connections at all sanitary or storm structures to be made with A-lack joint or equal.

32. Traffic control is to be per MoDot or MUTCD whichever is most stingent.

33. All sanitary laterals and sanitary main crossing under pavement must have



the proper rock backfill and to required compaction.

SHEET INDEX

SHEET 1 COVER SHEET SHEET 2 SITE PLAN/PROFILE

GRADING QUANTITIES:

1,081 C.Y. SHORT

THE ABOVE GRADING QUANTITY IS APPROXIMATE ONLY, NOT FOR BIDDING PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES PRIOR TO CONSTRUCTION.

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 Geotechnical Engineer concurrent with the grading and back filling operations.

2. The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes, or reasonably implied there from, all in accordance with the plans and notes as interpreted by the Geotechnical Engineer.

3. The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.

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

5. A sediment control plan that includes monitored and maintained sediment control basins and/or straw bales should be implemented as soon as possible. No graded area is to be allowed to remain bare over the winter without being seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and silting up existing downstream storm drainage system.

6. Any existing trash and debris currently on this property must be removed and disposed of off-site.

7. Soft soil in the bottom and banks of any existing or former pand sites or tributaries should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed right-of-way locations or on storm sewer locations.

8. Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds: the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The unsuitable shall be thoroughly disced prior to the placement of any fill. The Soils Engineer shall approve the discing operation.

9. Compaction equipment shall consist of tamping rollers, pneumatic-tired rollers, vibratory roller, or high speed impact type drum rollers acceptable to the Soils Engineer. The roller shall be designed so as to avoid the creation of a layered fill without proper blending of successive fill layers.

10. The Soils Engineer shall observe and test the placement of the fill to 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 made to the Owner at regular

11. The Soils Engineer shall notify the Contractor of rejection of a lift of fill or portion thereof. The Contractor shall rework the rejected portion of fill and obtain notification from the Soils Engineer of its acceptance prior to the placement of additional fill.

12. All areas to receive fill shall be scarified to a depth of not less than 6 inches and then compacted in accordance with the specifications given below. Natural slopes steeper than 1 vertical to 5 horizontal to receive fill shall have horizontal benches, cut into the slopes before the 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 placed shall be removed at the Contractor's expense.

13. The surface of the fill shall be finished so that it will not impound 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 smooth. If the surface has been finished smooth for any reason, it shall be scarified before proceeding with the placement of succeeding lifts. Fill shall not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to permit the layer under placement to freeze.

14. All siltation control devices shall be inspected by the contractor after any rain of 1/2" or more with any appreciable accumulation of mud to be removed and siltation measures repaired where necessary.

15. No slope shall be steeper than 3(Horizontal):1(Vertical). All slopes shall be sodded or seeded and mulched. 16. Any contaminated soil encountered during excavation shall be hauled and placed

as directed by the owners environmental engineering representative. 17. The location of and details for all slitation control devices (silt fences and sediment basins) must follow the "St. Charles County Soll and Water Conservation

District Erosian and Sediment Control" guidelines.

DEVELOPMENT NOTES

TREE OR BUSH

ELECTRIC LINE

GAS LINE

WATER LINE

TELEPHONE LINE

CABLE TV LINE

OVERHEAD WIRE

UTILITY POLE W/ DOWN GUY

UTILITY POLE

FIRE HYDRANT

WATER VALVE

WATER METER

GAS VALVE

ROAD SIGN

FENCE

SANITARY SEWER & MANHOLE

STORM SEWER & INLET

5. The required height and building setbacks are as follows: Minimum Front Yord: Minimum Side Yard: Minimum Rear Yard: 50 feet

Site is served by: 636-281-2858 City of O'Fallon Sewer AmerenUE Company 636-639-8312 636-946-8937 Laclede Gas Company City of O'Fallon Water 636-281-2858 636-332-3011 O'Follon Fire Protection District 636-272-3493 636-272-6620

7. Property Owner: Siegfried O'Fallon, L.P. Contact: Mike Schafer 2 Hagerty Blvd. Westchester, PA 19382 Phone: (610) 883-4737 Fax: (610) 701-0199

Office: 1 space per 300 s.f. office space 1,080 sq. ft. / 300 sq. ft. = 3.6 Worehouse: 1 space per 1,000 s.f. plus 1 space per employee 30,808.31 / 1,000 = 30.81 plus 10 employees Total Parking Required: 44.41 ~ 45 spaces

Total Parking Provided: 48 spaces (Including 2 handicap spaces) Loading space: Over 5,000 s.f. requires 1 space.

 Landscape Required: 47 (spa.) x 270 = 12,690 S.F. 12,690 sq. ft. x 0.06 (%) = 761.40 Total Interior Landscape Required: 761.40 S.F. Total Interior Landscape Provided: 2,813.28 S.F.

No tree preservation is required, no existing trees being removed.

 Site Coverage Calculations: 80,315.02 S.F. Building = 31,888.31 sq.ft. ~ 39.70% Povement = 27,138.71 sq.ft. ~ 33.79%

12. Detention for this site was provided as part of Lone Star Industrial Park.

required by City Code. Rooftop units shall be screened by a parapet wall that extends around the entire perimeter of the building; 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.

All proposed utilities to be located underground. 16. All siltation control to be per St. Charles County Soil and Water

Conservation District Erosion and Sediment Control Guidelines.

17. No off-site grading easements will be required, Contractor is owner of adjacent parcels.

> The state of 10021-003 0.040

TELEPHONE PEDESTAL

STANDARD SYMBOLS & ABBREVIATIONS

0

and the same

-E-

--- G---

--W--

-T-

-CATY-

- OHW-

and a

(G)

TEL. PED.

I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any respon-

sibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be use

or any part or parts of the architectural a

Box Engineering Company, Inc. All Rights Reserved

REVISIONS

/22/08 ADDED HYD. CALCS

___x

1.843 Acres 1. Area of Tract: Area Disturbed: 1.347 Acres I-2 Heavy Industrial Existing Zoning: (City of O'Fallon) Office/Warehouse 3. Existing Use: 4. Area of Existing Building: 15,054.71 sq.ft. Area of Proposed Building 16,833.6 sq.ft.

Maximum Height of Building:

Fort Zumwalt School District

8. According to the Flood Insurance Rate Mop of St. Charles County, (Community Panel number 290315 0220 E dated March 17,2003) this property lies within zone X. Zone X is defined as an area outside the 500 year Flood Plain Limits.

9. Parking Required:

1 space per 20,000 over Total required and provided: 2 spaces

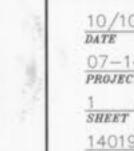
1 per 40' of road frontage: 182.50' / 40' = 4.56 ~ 5 trees Total Road Trees Required: 5 Total Trees Provided: 5

Green Space = 21,287.34 sq.ft. ~ 26.51%

13. No additional sanitary flow to be contributed by this site.

14. All HVAC and mechanical units on site shall be properly screened as





O'FALLON #98-43.04 December 6, 2007

AS-BUILTS ADDED OCTOBER, 2008

ENGINEERING PLANNING SURVEYING 221 Point West Blvd. St. Charles, MO 63301 636-928-5552

FAX 928-1718 10/10/08 07-14019A PROJECT NUMBER FILE NAME

DRAWN

DESIGNED CHECKED

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. The design to be approved by the Designated Official. Temporary siltation control measures (structural) 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 reestablished 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 14 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 provided according to the City Engineer's recommendations. All finished grades (areas not to be

PRINCIPLES & STANDARDS:

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 Building Department. Permanent safety guards will be constructed in

accordance with the appropriate section(s) of the adopted BOCA Codes.

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 ock rip rap or concrete or other suitable materials as approved by the city Enginee Detention basins, diversions, or other appropriate structures shall be constructed to prevent velocities above 5 fps.

disturbed by future improvement) in excess of 20% slopes (5:1) shall be mulched and

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 erosian. 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 with the approval of the City Engineer.

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 11. All building mounted lights shall be pointed downward and fully screened to the top of the existing stream bank. The watercourse shall be maintained and made the prevent light from spilling over anto adjacent properties. 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 12. All ground and roof hvac mechanical units to be screened from view. bank erosion control measures and shall be approved by the City Engineer. FEMA and U.S. Army Corps of Engineers guidelines shall be followed where applicable regarding site

8. All lots shall be seeded and mulched at the minimum rates defined in Appendix A 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.

VEGETATIVE ESTABLISHMENT For Urban Development Sites APPENDIX A Seeding Rates:

Permanent: Tall Fescue - 30 lbs./ac. Smooth Brome - 20 lbs./ac.

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

August 1 to October 1

Combined Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.

development areas designated as flood plains and wetlands.

Wheat or Rye - March 15 to November 1 March 15 to September 15

Fertilizer Rates:

Seeding Periods:

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

Fescue or Brome - March 1 to June 1

Nitrogen 30 lbs./ac. 30 lbs./ac. Phosphate 30 lbs./ac. Potassium 600 lbs./ac. ENM* Lime

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

U.S.G.S. BENCHMARKS

REFERENCE BENCHMARK: RM 45 (ELEV 526.16) - CHISELED SQUARE ON THE SOUTHEAST WINGWALL OF THE LAKE SAINT LOUIS BOULEVARD BRIDGE OVER THE SPILLWAY OF

SITE BENCHMARK: ELEV 548.70 CUT CROSS IN CONCRETE DRIVE 30.0 FEET NORTH OF THE SOUTHEAST PROPERTY CORNER ON SUBJECT PROPERTY

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

19. All proposed fencing requires a separate permit through the Planning Division.

1,749 C.Y. CUT (INCLUDES SUBGRADES) 2,830 C.Y. FILL (INCLUDES 8% SHRINKAGE)

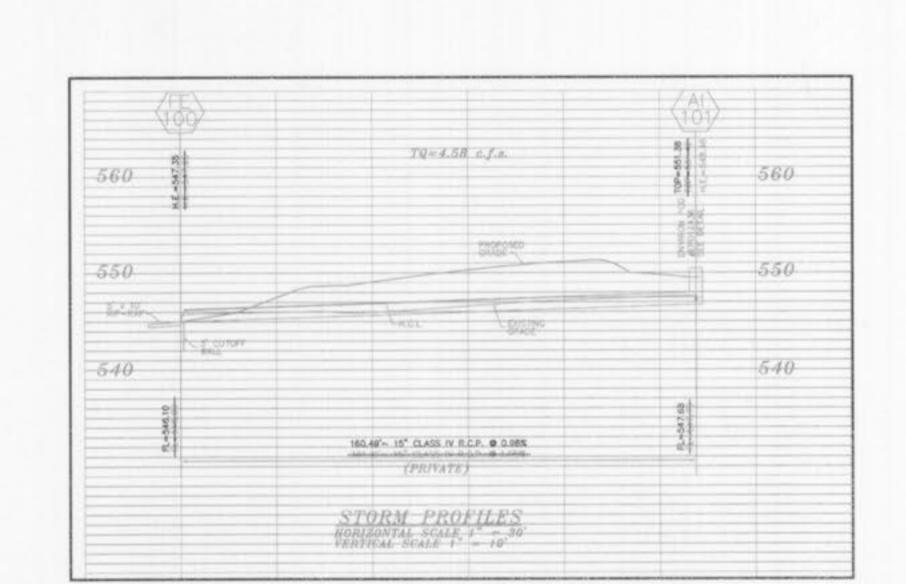
SEWER MEASUREMENTS

ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

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-



Revisions: ADDED HYDRAULICS 10/22/08



BAX PROJECT NAME : OWNI CABLE - LOT) OF HOFF INDUSTRIAL FILENAME: 14019% (Asbuilt) BAX PROJECT NO. : 07-14019A LOWER HYDR FR VEL JUNG TURN CURVE STR INL DR HY EL GRADE HEAD VEL HEAD LOSS LOSS LOSS GRADE CAP AREA PI UPPER LOWER UPPER DEPTH UPPER L DIA FL LN FL LN PS ST EL HY GR HY EL AI 101 PE 100 160 15 547.68 546.10 0.98 551.38 2.92 548.46* 547.35 .00500 0.81 3.73 0.22 0.22 0.00 0.00 . INDICATES CRITICAL DEPTH



AS-BUILTS ADDED OCTOBER, 2008



O'FALLON #98-43.04 December 6, 2007



DISTRICT GREETE

CARD/AREA BLET TOP-995145 FL-64786 GLL GARTHE 190175

87.876

LOT 10

N/F

TRACY & MARY JO EVERHART

ZONED I-2

ST PAGE SPECIAL STATES

LOT 9

N/F

3893/1872 ZONED I-2

OU NEOS SEE COOK BROS, RE, L.L.C.

CURD/WEA NUTT TOP-HALLA PL-HAPSE

RESUBDIVISION PLAT OF LOT 6 OF LIBERTY INDUSTRIAL PARK

P.B.44 PGS.349-350

PROPERTY N/F SUSAN M. DAVIS 4667/670 ZONED 1-2

S89"19'56"E 182.50'

RELOCATED EX. 6' /

160.49

UW ESMT PDAI FROMS-050

PROPERTY N/F SUSAN & BILL DAVIS

4667/662 ZONED 1-2

Enstho Likette

LOT 11

SUSAN M. DAVIS

4667/648

ZONED 1-2

EDSTRO METAL TRADH THELDSUFE