GENERAL NOTES:

- 1. All construction methods, materials and practices shall conform to all current applicable spelfications of the governing agencies
- 2. Any destruction of existing improvements or features shall be repaired or replaced in kind b the contractor and shall remain the contractors responsibility.
- Underground utilities have been plotted from available information and therefore their locations must 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 grading or construction
- 4. It shall be distinctly understood that failure to mention specifically any work which would normally be required to complete the project shall not relieve the contractor of his responsibility to perform such work.
- 5. Contractor shall keep road clear of mud and debris.
- 6. City approval of the Construction site plans does not mean that single family and two family dwelling units can be constructed on the lots without meeting the building setbacks as required by the Zoning Code.
- Prior to issuance of building permits for more than 30 % of the total units, building permits for all recreation amenities shall be pulled and prior to issuance of building permits for 40% if the total units all recreational amenities be opened for use.

BRADING SPECIFICATIONS

- . All fill areas to be compacted to a minimum of 90 percent of maximum dry density as determined by the Modified AASHTO T-180 Compacting Test, ASTM D1557-78, or as specified by the soils engineer.
- It shall be the grading contractors responsibility to notify the soils engineer prior to work in progress and to comply with recommendations by the soils engineer with regards to compaction, surface preparation, and placement of fill.
- 3. It shall be the grading contractors responsibility to provide the location of any existing underground utilities by notifying utility companies prior to grading operations.
- 4. The grading contractor shall cut or fill to subgrade elevation under all areas to be paved. Subgrade depth is 0.5 foot below proposed finished elevations.
- All drainage swales shall be sodded or seeded and mulched to prevent erosion.
- 6. All stumps, limbs, and other debris are to be removed from the site unless a suitable dump area is approved in advance by the owner after consulting with the soils engineer if burning is approved.
- 7. Subgrade is included in the total bid yardage. (Subgrade is figured at pavement depth.)
- 8. Slope to receive fill which are steeper than 5:1 should be benched prior to placement
- 9. If fill is to be place in areas of soft skill, particularly in the state of skill, particularly in the state of skill, particularly in the state of skill, particularly in the skill, particularly in t other low lying areas, the soft soil shall be excavated until Irm scale encountered
- All grading shall comply with the soils engineer's recommendations.
- 11. Grading exceeding 3:1 slope shall be done at the direction of a Soils Engineer registered in the State of Missouri
- 12. All grading shall conform to the City of O'Falion specifications. TATION CONTROL NOTES:

Sittation control will be installed prior to any grading or construction operations and shall be inspected and maintained as necessary to insure their proper function until sufficient vegetation has been established to prevent erosion.

The installation and maintenance of all siltation controls shall be the responsibility of the developer.

Additional sitation control may be required as directed by the local governing authority.

All grading area shall be protected from erosion by erosion control devices and/or seeding and mulching as required by the City of O'Fallon.

Erosion and sediment control structures shall be maintained throughout the construction process. EWER CONSTRUCTION NOTES:

I public storm and sanitary sewer construction methods to conform to latest standards and pecifications of the applicable codes and shall conform to all appropriate The City of O'Fallon

er all sewers and appurtenances are completed, inspected and accepted, the ontractor will be permitted to connect the sewer extension into the existing system, in the esence of the Inspector.

sinage pipe shall be reinforced concrete class III except as noted on plans. stallation shall conform to The City of O'Fallon Standards and Specifications.

nting material for Poly Vinyl Chloride (PVC) Sanitary Sewers shall conform to ASTM pecification D-3212. All poly vinyl chloride (PVC) pipe shall conform to ASTM D-3034 ype PSM with a SDR rating of 35, or lower.

manholes shall be precast conforming to A.S.T.M. C-478 and shall have 31 mils of f asphalt or coal tar pitch waterproof applied to the outside of each sanitary manhole. Ill manholes shall be 48" minimum diameter.

enches under existing pavement and under areas to be paved shall be backfilled with 3/4" minus crushed limestone.

all areas where sewer and appurtenances are to be constructed in filled ground, the fill will be placed to approximate finish grade and compacted to 90% maximum dry density, as determined by modified proctor test, prior to the excavating and installing pipe.

Il manhole and inlet tops built without elevations furnished by the engineer will be the responsibility of the Sewer Contractor. At the time of construction stake-out curb or grate inlets will be face staked, provided said stakes do not fall in the ditch line. If stakes fall within the ditch line the contractor or job superintendents shall notify the engineer that stakes are needed and allow 48 hours for cuts. Tops of manholes, inlets, valve boxes, etc. shall conform to Finished Grade.

All standard street curb inlets to have front of inlet two and one quarter (2.5) feet behind curb.

All filled areas, including trench backfills, under buildings, proposed storm and sanitary sewer lines, public right-of-way and paved areas shall be compacted to a minimum of 90% of maximum dry density as determined by the Modified AASHTO Compaction Test, ASTM D-1557, unless otherwise recommended in the Soils Report for this project.

When PVC pipe is used, appropriate rubber seal waterstop, as approved by the sewer district, shall be installed between PVC pipe and masonry (concrete & brick) structure.

It is the contractors responsibility to confirm the location of existing utilities and/or underground facilities by notifying utility companies prior to construction.

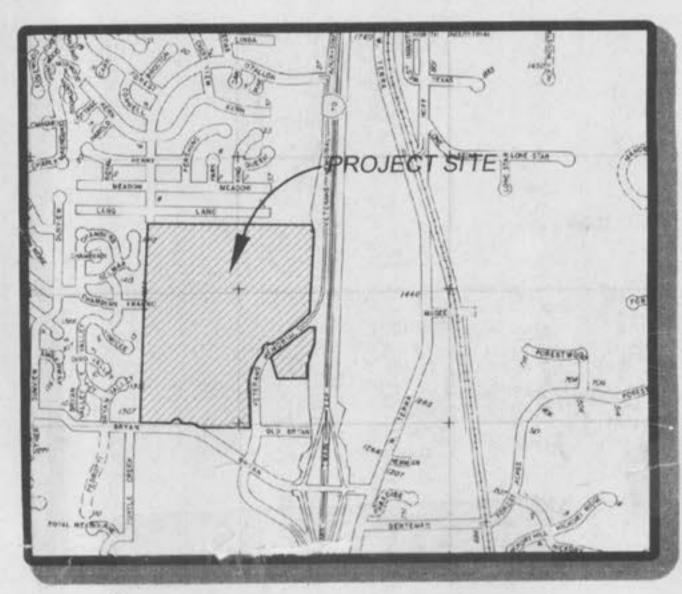
standards

Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including building laterals. All construction methods and materials used shall conform to current applicable

THORNBURY CROSSING

TWO TRACTS OF LAND BEING PART OF U.S. SURVEY 1780, TOWNSHIP 47 NORTH, RANGE 2 AND 3 EAST, ST. CHARLES COUNTY, MISSOURI

IMPROVEMENT PLANS



NOT TO SCALE

SHALL VARY IN SIZE & QUANTITIES AS TO PROVIDE APPROPRIATE SCREENING. LOWERING TREES 1 PER 100" SHRUBS 4 PER 100"

WHERE POSSIBLE EXISTING TREES TO REMAIN.

REPLACEMENT TREES SHALL BE MIXED DECIDUOUS

A EVERGREEN TREES, SAID REPLACEMENT TREES

LANDSCAPE LEGEND FOR BUFFER

5,000 SQ. FT.

50' MIN.

O' SIDE YARD --

50' MIN. WIDTH

15' BLDG LINE

20' MIN. WIDTH

5' WIDE LANDSCAPE BUFFER:

5' SIDE YARD - 5' SIDE YARD

BLDG LINE

34' MIN. WIDTH

6,000 SQ. FT.

60' MIN. WIDTH

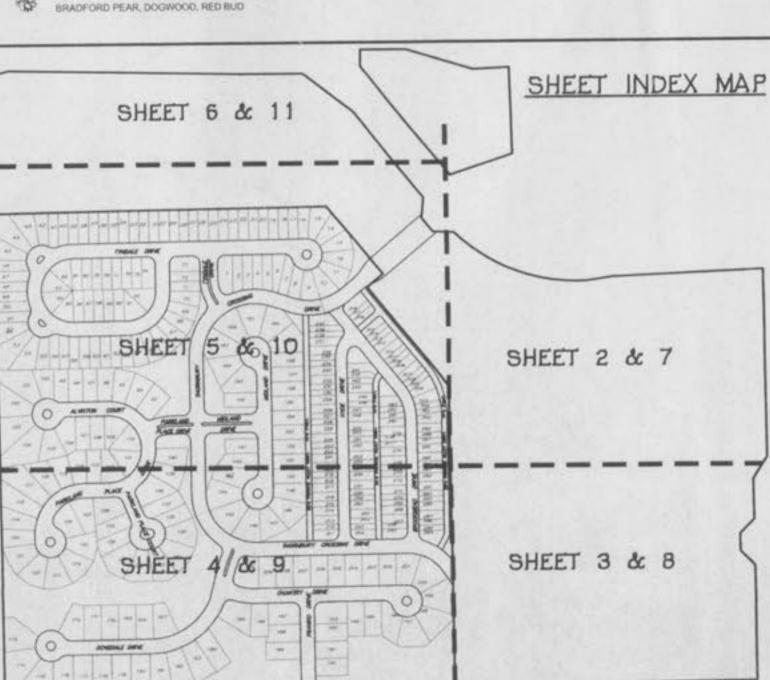
20' BLDG LINE

5' SIDE YARD -

- EVERGREEN TREE(6' MIN. HT.)
- WHITE PINES/AUSTRIANS DECIDUOUS TREE(2" MIN. CALIPER PIN OAKS, ASH, SWEET GUM
- SHRUBS(18" MIN. D(A.) BURNING BUSH, LILAC, FORSYTHIA, JUNIPER
- FLOWERING TREES (1 1/2" MIN CALIPER) BRADFORD PEAR, DOGWOOD, RED BUD

TREE ORDINANCE Existing trees = 11.7 acres Trees removed = 11.4 acres Trees required = 15 trees per acre 15 trees X 11.4 acres = 171 trees required Trees proposed = 171 trees 171 trees proposed = 171 trees required Complied with Ordinance

1 tree shall be provided per every 50 feet of street frontage per article 23 of the city of O'Fallon zoning



LEGEIND PROPOSED EXISTING CONTOUJRS (5.36)SPOT ELEVATIONS CENTER I LINE BUILDINGS,, ETC. mm TREE LLINE FENCIE -x-x-x-x-x-x-STORM SEWERS SANITARY SEWERS CATCH BASIN AREA INLET GRATED IINLET STORM MAINHOLE SANITARY MIANHOLE FLARED END SECTION CLEANOUT LATERAL COMNECTION UTILITY OR POWER POLE FIRE HYDDRAN TEST HIOLE ----PAVEMENT ---(2°G)----WATER MAIN & SIZE ---(6°W)---TELEPHONE --- (T) ---

ELECTRIC (U) UNDERGROUND — (E) — ELECTRIC (0) OVERHEAD FLOW LINE TO BE REMOVED (TC) TOP OF CURB SWALE LIGHT STANDARD STREET SIGN PARKING STALLS P.S. YARD LIGHT

PROJECT NOTES:

- 1. Area of Site: 12.84 scres 2. Existing Zoning: "R-3 PUD" -City of O'Fation
- Present Owner: Went/way Corporation No. 8 Exmoor Drive, St. Louis, Messouri 63124 Lot Data
 Total Units: 92
- 2. Average Lot size 5000 sq. ft. 3. Minimum Lot width at building line 34" 5. Yard set backs: 1. Front - 15 2 Side - 5

9. Density Calculations:

- 3. Rear 15 6. Total area of tract = 12.84 ac. Common ground # 0.32 sc. Net total # 12.52 at Allowable Lots:
- 12.84 Ac x (43560 Sq Ft /Ac) 5000 Sq Ft allowlot = 111.9 Lots 8. Net lot Area. 12.52 ac x (43.560 Sq.Ft/Ac) 5,928 Sq.Ft/ Lots
- 92/12.84 = 7.17 lots sex ac. 10. Smallest Lot Size = 3,000 Sq. Ft. Village A * Lot Coverage Village A+ 52%

VILLAGES B, C, & D PROJECT NOTES R-1 PUD

- 1. Area of Site: 35.09 acres
- 2. Existing Zoning: "R-1 PUDY-City of O'Fallon
- 3. Present Owner: Wentzway Corporation No. 8 Exmoor Drive, St. Louis, Mission 63124
- 4. Lot Data: 1. Total Units: 118 2. Average Lot size 10000 sq. R 3. Minimum Let width at building line & B&C, 607-D
- 5. Yard set backs: 1 Front - 15 2. Side - 5" 3. Renr - 15
- 6. Total area of tract = 35.09 ac. Common ground = 6.75 ac. Net total = 28.34ac
- 7. Allowable Lots: # 152.9 Lots
- 6. Not lot Area: 30.80 ac x (43.560 Sq.FL/Ac) = 10.467 Sq.Ft /Lote 9. Density Calculations
- 118/35.09 = 3.36 tota per ac. Smallest Lot Size = 5.000 Sq. Ft. VILLAGE 8 & C. Smallest Lot Size = 6.000 Sq. Ft. VILLAGE D. Lot Coverage Village B = 40%

Lot Coverage Village C = 40% Lot Coverage Village D = 45%

- R-4 PUD 1. Area of Site: 9.05 acres 2. Existing Zoning: "R-4.7-util" -City of UT-200-
- Present Owner Wentzway Corporation No. 8 Extroor Drive, St. Louis, Missouri 63124 4. Lot Gota. Total Units: 108 2. Average Lot size 3,000 sq. ft Minimom Lot width at building iner 20"
- 5. Yard set backs: 3. Rear - 5' 6. Total area of tract = 9.05 ac. Common ground
- . Allowable Lots: (15 Units/Acre) 9.05 Ac x (43560 Sq.Ft/Ac) 135.6 Lots
- 8 Net lot Area 8.80 ac x (43,560 Sq.Ft/Ac) + 3.549 Sq.Ft. /Lots 9. Density Calculations:
- 108/9.05 = 11.93 lots per ac: 10. Smallest Lot Size = 1,944 Sq. Ft. Wlage E. ¥Lot Coverage Village E ≈ 46%
- Village A = 92 1 Car Detached Houses Village B = 48 - 50' Lots Village C = 26 - 50' Lots
- Village D = 44 60' Lots Village E = 108- Attached Row Houses

PROJECT BENCHMARK: Southwest corner of front of curb inlet on East side of relocated Bryan Road at approximate Station 31+00 Elevation: 596.60 per topographic survey for Quiktrip (FLAVAN TRACT "C") as prepared by GBA, Inc. Aug. 6, 1997.

Note: B.M. Elevation based on USGS datum.

George J. Gower, L.S.



of O'Fallon NUTES.

1. The Developer shall provide the City construction inspectors with soils reports prior to and during site soil testing. 2. 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 acceptable 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 to the Contractor in his methods as deemed fit to project property and improvements. Any depositing of any silts or mud on new or existing pavement or in new or existing sewers or swales shall be removed after each rain and affected areas cleaned to the Owner and/or the City of O'Fallon and/or MODOT.

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

4. Erosion control 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, adjacent roadways, properties, ditches, and storm drainage systems (both on and offsite).

5. No graded area shall remain bare for over 6 months without being seeded or

6. No slope shall exceed 3(horz.):1(Vert.).

7. All filled places under proposed storm and sanitary sewer and/or paved areas shall be compacted from the bottom of the fill up to 90% of maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95% of maximum density as determined by the Standard Proctor Test AASHOT T-99. A soils engineer concurrent with the grading and backfilling operations shall verify all trees.

- 8. No Floodplain exists on this site per F.I.R.M. map: 29183C0240 E.
- 9. Driveway locations shall not interfere with the sidewalk handicap ramps.

10. 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, specification 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.

11. All sign post, backs, mast arms, and brackets arms shall be pointed black using Carboline Rustbond Penetrating Sealer SG and Carboline 133 HB paint (or equivalent as approved by the City and MODOT)

12. All proposed playgrounds areas also pavilions will need a separate permit from the Building Division.

CONSTRUCTION DETAILS

TRAFFIC CONTROL PLAN

13. All Utilities shall be located underground.

INDEX OF SHEETS

COVER SHEET SITE/GRADING PLANS 7-11 SITE PLANS 12-17 STREET PROFILES 18-22 SANITARY SEWER PROFILES 23-25 STORM SEWER PROFILES 26 STORM SEWER HYDRAULICS 27-31 DRAINAGE AREA MAPS 32-33 WARPING DETAILS LP-1 LANDSCAPE PLAN V1-W2 WATER PLANS WD-1 WATER DETAILS

THESE PLANS HAVE BEEN REWED POUT FINGINEERING, INC. FOR THEIR COMPLIANCE REGARDING GEOTECHNICAL RECUINDATIONS RELATIVE TO STATE OF THE PROPERTY OF THE PROPE BASED ON THIS REVIEW AND AVAILABLE SUBURFA INFORMATION IT IS OU SITE MAY BE CONSTRUCTED IN ACCORDANCE WITH THE LANS, O' JUD CONSTRUCTED IN ACCORDANCE WITH THE LAND WITH T AND THE RECOMMENDATIONS GIVEN IN THE JECTECHNICAL REPORT OF JUNE

WE HAVE NOT PREPARED ANY PART OF THISE PLANS AND MY SEAL ON THES ONLY TO CONFIRM MY PERSONAL REVIEW IND APPROVAL TO THE SITE GRADIN TO THE STABILITY OT EARTH SLOPES.

SCI ENGINEERING, INC. MUST BE INVOLVED DURING THE CONSTRUCTION PHASE I THIS PROJECT IN ORDER TO DETERMINE IF SUBSURFACE CONDITIONS ARE AS A FROM THE FIELD EXPLORATION DATA, TH/T OUR RECOMMENDATIONS RELATIVE ARE IMPLEMENTED, AND THAT OTHER GENTECHNICAL ASPECTS OF SITE DEVELO PERFORMED IN ACCORDANCE WITH THESE PLANS.

SCI ENGINEERING, INC.

MARSIA GELDERT-MURPHEY, P.E.

CE-1 - CD3

Tit

1. This site is in City of C City of O'. Fort Zumwa 2. This site is in the

City of O'Fallon

Ameren UE Con GTE Telephor St. Charles

