

BRIGHT START DAY CARE CENTER

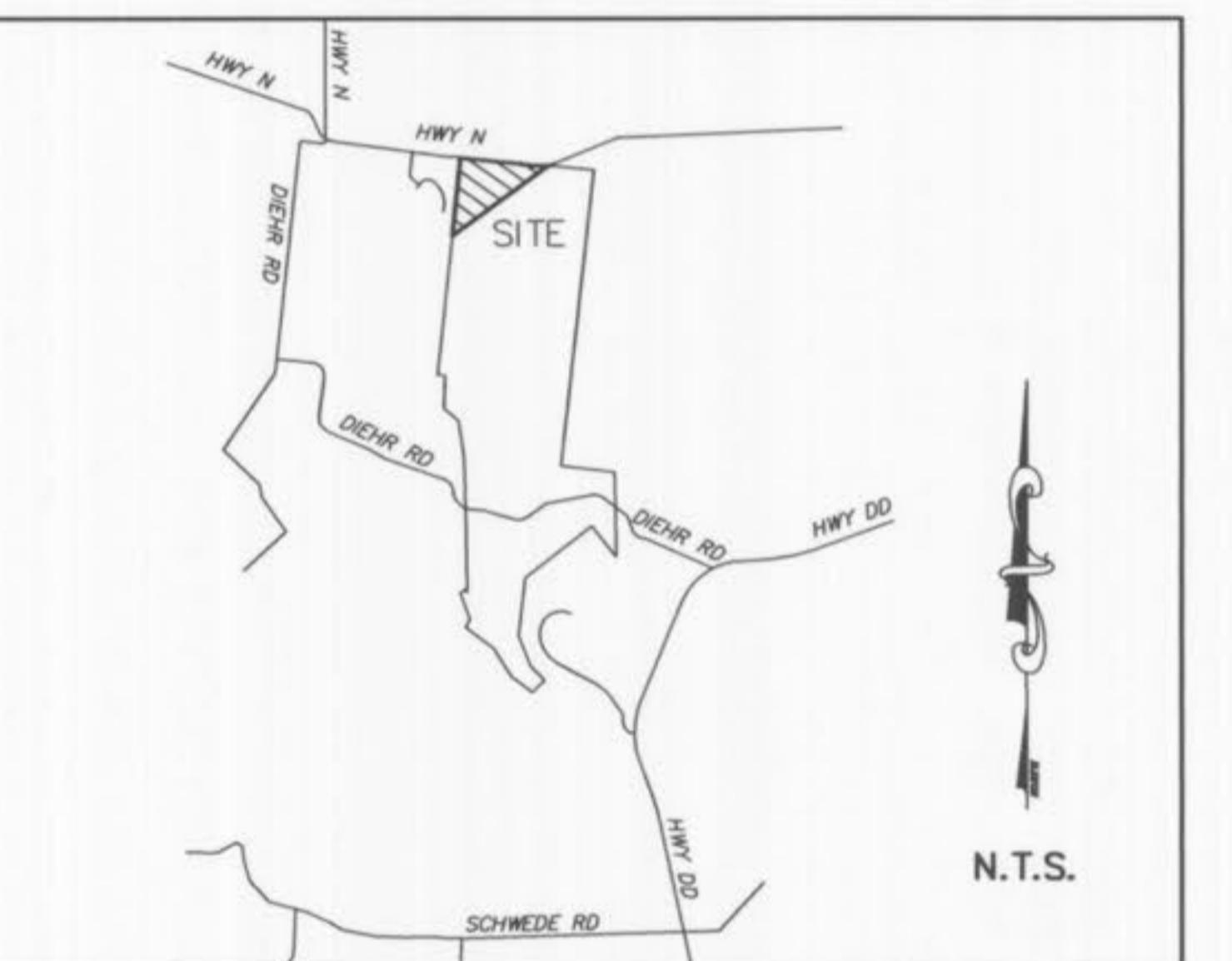
CITY OF O'FALLON GENERAL NOTES

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
 2. 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 of improvements.
 3. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR-35.
 4. Storm sewer 18" in diameter or smaller shall be ASTM C-14.
 5. Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
 6. All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class III) unless noted otherwise in the plans.
 7. Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-36, A.A.S.H.T.O. See plans for gauge.
 8. All filled places under proposed roads, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted 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 AASHTO T-99. All filled places in proposed roads shall be compacted from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. Ensure the moisture content of the soil in 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 discretion of the City of O'Fallon.
 9. All earthen filled places within State, County, or City roads (Highways) shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test A.A.S.H.T.O. T-99" (ASTM D-698) unless otherwise specified. All tests will be verified by a soils engineer.
 10. All storm and sanitary trench backfills shall be jetted. Granular fill will be used under paved areas.
 11. Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plot. See record plot for location and size of easements. This does not apply to house laterals.
 12. No area shall be cleared without the permission of the developer.
 13. All grades shall be within 0.2 feet (more or less) of those shown on the grading plan.
 14. No slope shall be steeper than 3' (horizontal) to 1' (vertical) sodded or seeded and mulched.
 15. Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices," end of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
 16. All manholes and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, oil curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
 17. All standard street curb inlets to have front of inlet 2 feet behind curb.
 18. The minimum vertical distance from the low point of the basement to the free-line of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one-half feet (2-1/2').
 19. Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority. Water mains shall have a minimum of 42" of cover.
- 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.

TRACTS OF LAND BEING PART OF FRACTIONAL
SECTIONS 16 & 17, AND U.S. SURVEYS 61 & 417,
TOWNSHIP 46 NORTH, RANGE 2 EAST,
ST. CHARLES COUNTY, MISSOURI

IMPROVEMENT PLANS

AS-BUILT PLANS



LOCATION MAP

DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES

1. 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 grading or construction of improvements.
2. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of grading 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 D-698). 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.
6. All sanitary sewer lines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
7. Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plot.
8. All sanitary sewer construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
9. The Duckett Creek Sanitary District shall be notified of least 48 hours prior to construction for coordination of inspection.
10. All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the free-line of a sanitary sewer of the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2-1/2 feet.
11. All sanitary sewer manholes shall be wastewater on the exterior in accordance with Missouri Dept. of Natural Resources specification 10 CSR-8.13007(X).
12. 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 "diam" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediately backfill over pipe shall consist of some size "diam" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
13. All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
14. All pipes shall have positive drainage through manholes. No flat invert structures are allowed.
15. All creek crossings shall have grouted rip-rap as directed by district inspectors. (all grout shall be high slurry ready-mix concrete).
16. Brick shall not be used on sanitary sewer manholes.
17. Existing sanitary sewer service shall not be interrupted.
18. Maintain access to existing residential driveways and streets.
19. Pre-manufactured adapters shall be used of PVC to DIP connection. Rubber boot/Union-type couplings shall not be allowed.
20. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.
21. "Type N" Lock-Type Cover and Locking Device (Lock-Lug) shall be used where lock-type covers are required.



MoDOT UNDERGROUND LOCATE

(314) 340-4100

*FIBER OPTICS MAY BE PRESENT

NOTE: TOPOGRAPHIC AND EXISTING UTILITY INFORMATION OBTAINED FROM PLANS FOR THE WYNDGATE SUBDIVISION PREPARED BY PICKETT, RAY AND SILVER, INC. ACTUAL EXISTING GRADES HAVE NOT BEEN FIELD VERIFIED AND MAY DIFFER FROM THOSE SHOWN. EXISTING UTILITY LOCATIONS ARE TO BE CONSIDERED APPROXIMATE. EXISTING UTILITIES AND TOPO SHALL BE FILED VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

DRAWING INDEX

Sheet	Description
1	COVER SHEET
2	SITE PLAN
3	GRADING PLAN
4	DRAINAGE AREA MAP
5	SEWER PROFILES/ CONSTRUCTION DETAILS
6	CONSTRUCTION DETAILS
7	WATER DETAILS



REVISIONS	NO.	DATE	REV. CITY OF O'FALLON & DUCETT CR.
1	1	01-16-06	1/16/06 REV'D PER MSO COMMENTS
	2	02-21-06	2/21/06 PER CITY OF O'FALLON
	3	03-10-06	3/10/06 PER MO DOT
	4	04-13-06	4/13/06 PER MO DOT

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans outlined above, including the signature, date and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.
PICKETT, RAY & SILVER, INC.

DRAWN	DATE
B.PARKS	12-05-05
CHECKED	DATE
D.BYRD	12-05-05
PROJECT # 01267.BRST.DOC	
TASK # 2	FIELD BOOK X
BRIGHT START IMPROVEMENT PLANS COVER SHEET	
SHEET 1	OF 7
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FILE #3203.05

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

TRACTS OF LAND BEING PART OF FRACTIONAL
SECTIONS 16 & 17, AND U.S. SURVEYS 61 & 417,
TOWNSHIP 46 NORTH, RANGE 2 EAST,
ST. CHARLES COUNTY, MISSOURI

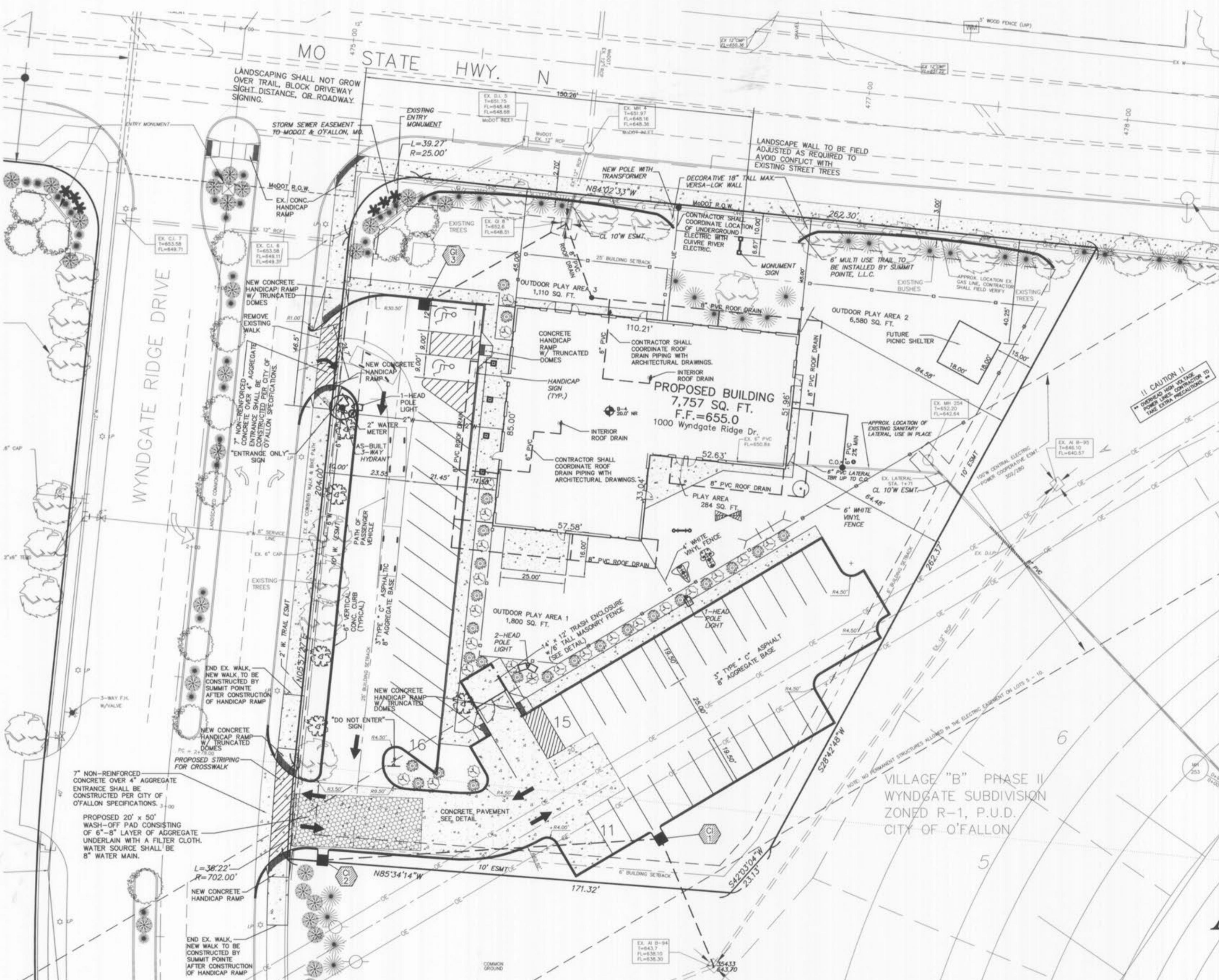
LANDSCAPE SCHEDULE				
23	MUGO PINE	Pinus mugo mughus	2 GAL.	
24	EMERALD N' GOLD EUONYMUS	Euonymus fortunei "Emerald 'n Gold"	2 GAL.	
5	RED SUNSET MAPLE	Acer rubrum 'Red Sunset'	2" CAL.	

NO EXISTING TREES ARE BEING REMOVED FROM SITE.

SITE COVERAGE CALCULATIONS			
BUILDING	PAVEMENT	LANDSCAPE	TOTAL SITE
7,757 SQ. FT.	15,522 SQ. FT.	30,592 SQ.FT.	60,832 SQ. FT.
12.7%	37.0%	50.3%	

GENERAL NOTES

- Present Zoning: P.U.D. R-1 Single Family Residential
- Proposed Use: Day Care Center (Conditional use permit required)
- Area of Tract: 1.40 Acres
- Project is Served By:
 - A. Public Water Supply District #2
 - B. St. Charles Gas Company
 - C. CenturyTel Telephone Company
 - D. St. Charles Electric Utility District
 - E. Culver River Electric
 - F. Wentzville Fire Protection District
- All utilities shall be located underground.
- Parking and building shall be in compliance with A.D.A. Accessibility Guidelines.
- All dimensions taken from back of curb unless otherwise noted.
- Building height, site lighting and signage shall be in accordance with City of O'Fallon's requirements.
- Setback and yard requirements:
 - Front - 25 feet
 - Side - 6 feet
 - Rear - 25 feet
- Grading and drainage shall be per the requirements of the City of O'Fallon.
- Architectural treatment to be provided on all sides of buildings. Architectural treatment shall remain consistent throughout the project.
- All easements shall be provided for on record plot.
- Exterior lighting details and photometric plan shall be submitted and approved prior to construction plan approval.
- Proposed lighting shall be directed down and shielded so as not to overflow onto adjacent residential properties. Wall pack lighting shall not be permitted. Lighting details and photometrics in accordance with the City's standards shall be submitted and approved prior to construction approval.
- No slope shall be greater than 3:1 during construction and at final grade.
- Per F.I.R.M. #29183C0215F March 17, 2003, site is not located within the 100 Year Flood Plain.
- Trash enclosures shall be a minimum of 6 foot high and shall be constructed of materials that match or compliment building architecture. Enclosures shall have white vinyl gates.
- Signage locations and sizes to be reviewed separately through the Planning Division. Signage shall be permitted separately.
- Building and parking shall be in conformance with City of O'Fallon's requirements for R-1 PUD zoning.
- Backflow prevention devices for water service shall be located inside the building.
- Location of backflow preventer and water services shall be addressed with architectural drawings. Water meter locations shall be coordinated with water company.
- Demonstrate compliance with Article XIII of the Zoning Code, Performance Standards.
- All trash pick up and loading and unloading operations will not occur between the hours of 7:00 p.m. and 7:00 a.m.
- All handicap sidewalk ramps shall be concrete and shall meet ADA color requirements.
- Development will remain as one lot, no subdivision of lot is proposed.
- No outdoor display of materials or products, temporary or otherwise, shall occur beyond the area between the front of the building and the driveway aisle. No such materials shall be attached or clamped to any exterior wall.
- Lighting values will be reviewed on site prior to final occupancy inspection. Corrections will need to be made if not in compliance with City standards.
- All proposed fencing requires a separate permit through the Planning Division.
- All sign posts and backs and bracket arms shall be painted black using Carboline Rustbond Penetrating Sealer SG and Carboline 133 HB point (or equivalent as approved by City and MoDOT). Signs designating street name shall be on the opposite side of the street from traffic control signs.
- All roof mounted HVAC and mechanical 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. All ground mounted HVAC and mechanical units shall be screened using vegetative or 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.
- Utility contractor shall coordinate utility connections with general contractor.
- Detention has been provided in a detention basin for Wyndgate subdivision.
- Site shall comply with the Tree Preservation Ordinance, Chapter 23.
- Estimated sanitary flow=1320 gallons per day.



AS-BUILTS

NOTE: 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 PREVAIL AND THE CONTRACTOR PRIOR TO ANY CONSTRUCTION SHALL NOTIFY THE PROJECT ENGINEER.

FILE #3203.05

MANUFACTURER	SIZE	ADHESIVE	STYLE	MESSAGE (PART #)	WEBSITE
ACP International	3 7/8"	Epoxy	Crystal Cap	No Dumping Drains To Waterways (SD-W-CC)	www.acpinternational.com
DAS Manufacturing, Inc.	4"	Epoxy	Standard Style	No Dumping Drains To Stream (#SDS)	www.dasmanufacturing.com

PICKETT RAY & SILVER
CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS

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BRIGHT START
IMPROVEMENT PLANS
ST. CHARLES, MO

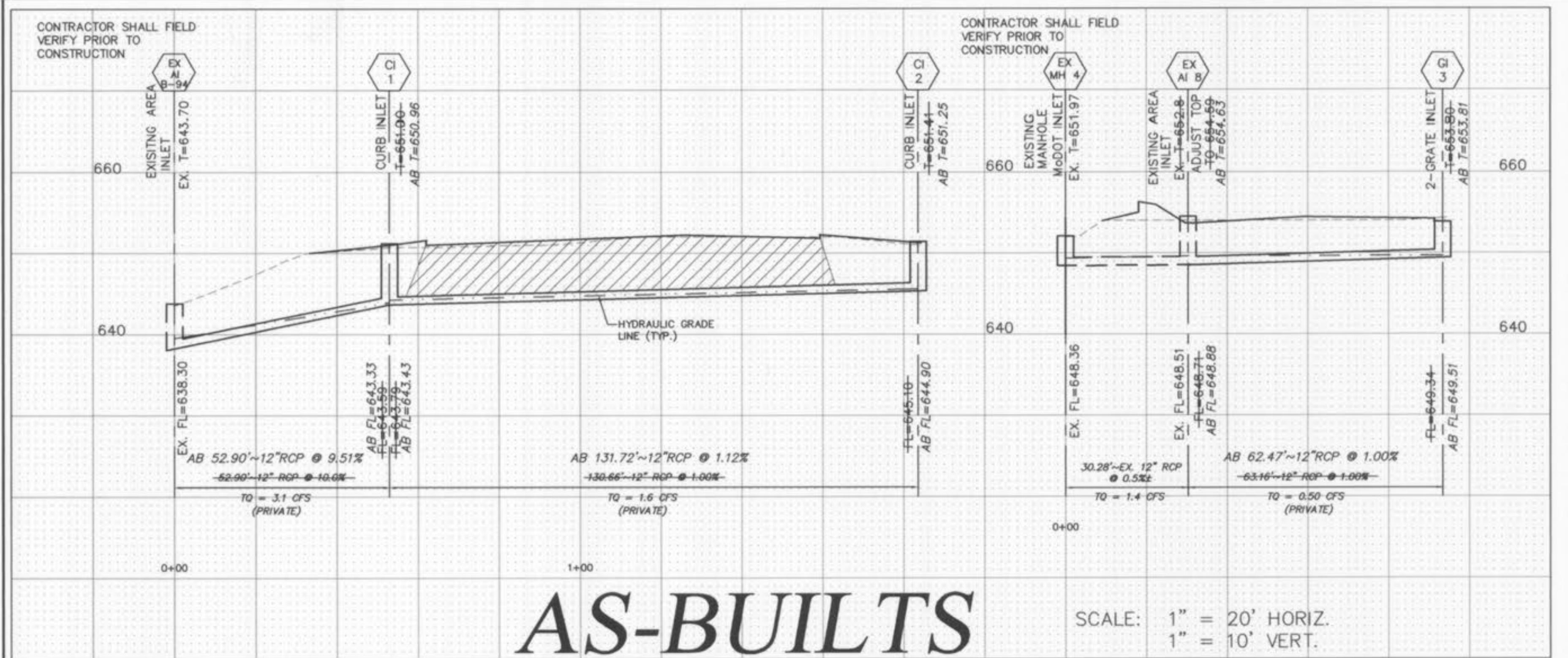
Prepared For:
SUMMIT POINTE, L.L.C.

REVISIONS	NO.	DATE
	1	01-09-06 PER CITY OF O'FALLON
	2	11-06 REVISED PER T.R. HUGHES
	3	02-06-06 REVISED PER T.R. HUGHES
	4	02-21-06 PER CITY OF O'FALLON
	5	03-10-06 PER CITY OF O'FALLON
	6	04-15-06 PER MODOT AS-BUILTS
	7	09-28-06

DRAWN	DATE
B.PARKS	12-05-05
CHECKED	DATE
D.BYRD	12-05-05
PROJECT #	01267.BRST.00C
TASK #	2 FIELD BOOK X

BRIGHT START	IMPROVEMENT PLANS	SITE PLAN
SHEET 2	OF 7	

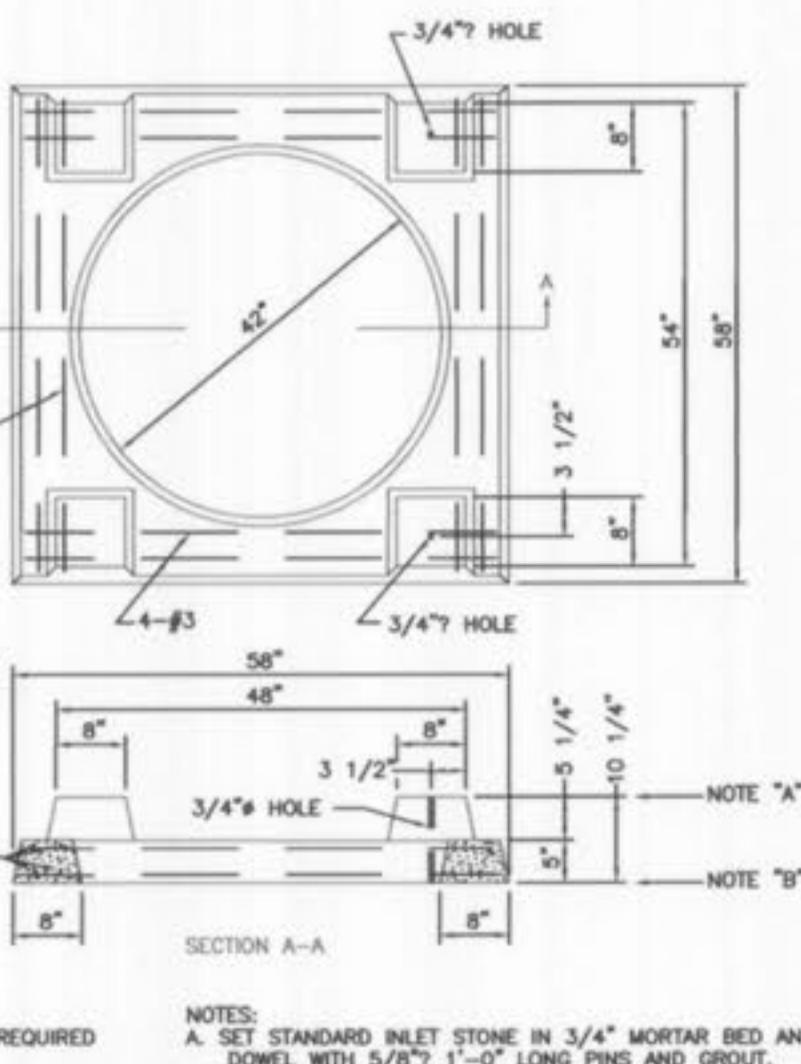
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AS-BUILTS

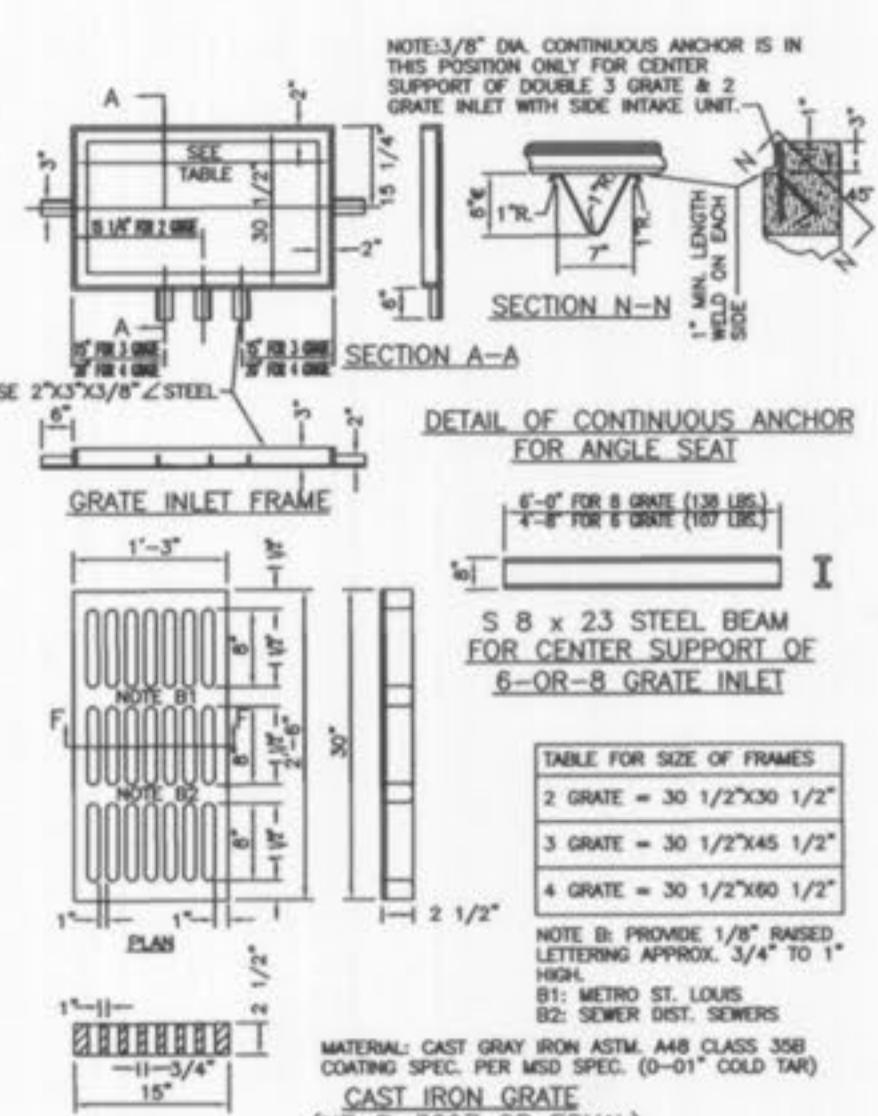
ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE					
Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W"	Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft.	Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W"	Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft.
		Concrete Encasement				Concrete Encasement			
4	28	2.33	3.20						
6	28	2.33	3.46						
8	28	2.33	3.70						
10	28	2.33	3.86						
12	28	2.33	3.98						
15	32	2.67	4.89						
18	35	2.92	5.63	14 X 23	41	3.42	5.94		
21	39	3.25	6.61						
24	42	3.50	7.39	19 X 30	49	4.08	7.68		
27	45	3.75	8.18	22 X 34	53	4.42	8.61		
30	49	4.08	9.30	24 X 38	58	4.83	9.70		
33	53	4.42	10.53	27 X 42	62	5.17	10.71		
36	56	4.87	11.43	29 X 45	66	5.50	11.72		
39	D I S C O N T I N U E D				32 X 49	71	5.82	13.14	
42	63	5.25	13.38	34 X 53	75	6.25	14.05		
48	70	5.83	15.87	38 X 60	83	6.92	16.18		
54	77	6.42	18.15	43 X 68	92	7.67	18.81		
60	84	7.00	20.73	48 X 76	101	8.42	21.59		
66	91	7.58	23.45	53 X 83	109	9.08	24.35		
72	98	8.17	26.37	58 X 91	118	9.83	27.45		
78	105	8.75	29.39	63 X 98	126	10.50	30.50		
84	112	9.33	32.57	68 X 106	135	11.25	33.91		
90	119	9.92	35.90	72 X 113	143	11.92	36.99		
96	126	10.50	39.37	77 X 121	152	12.67	40.89		
102	133	11.08	42.99	82 X 128	160	13.33	44.45		
108	140	11.67	46.75	87 X 136	168	14.00	47.79		
114	147	12.25	50.66	92 X 143	176	14.67	51.70		
120	154	12.83	54.72	97 X 151	185	15.42	56.01		
126	161	13.42	58.92						
132	168	14.00	63.27	106 X 166	202	16.83	64.48		
144	182	15.17	72.40	116 X 180	218	18.17	73.59		

TABLE NO. 1
PAYLINE WIDTHS OF TRENCH AND
PAY-QUANTIES OF CONCRETE

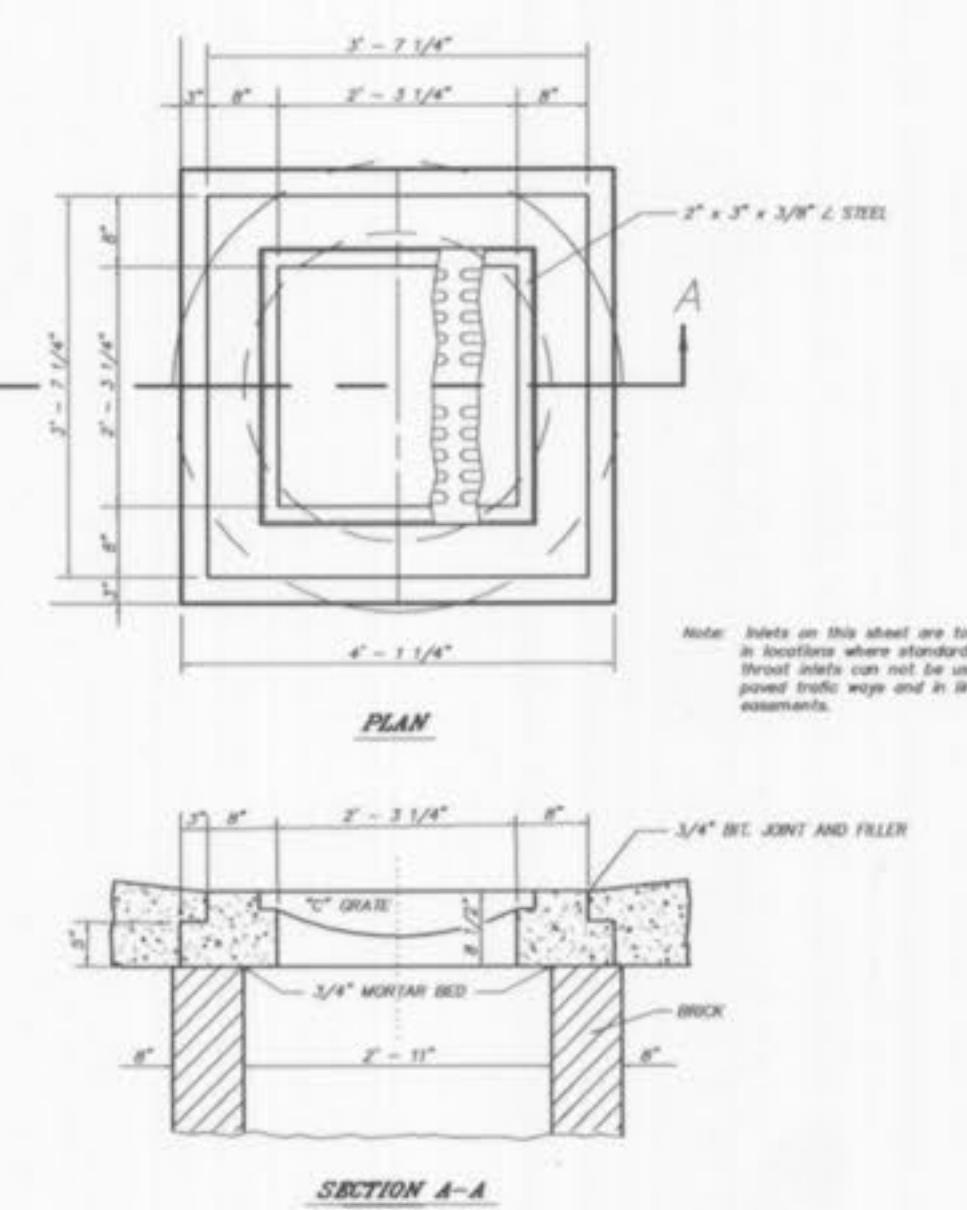


AREA INLET
(12" THRU 34")

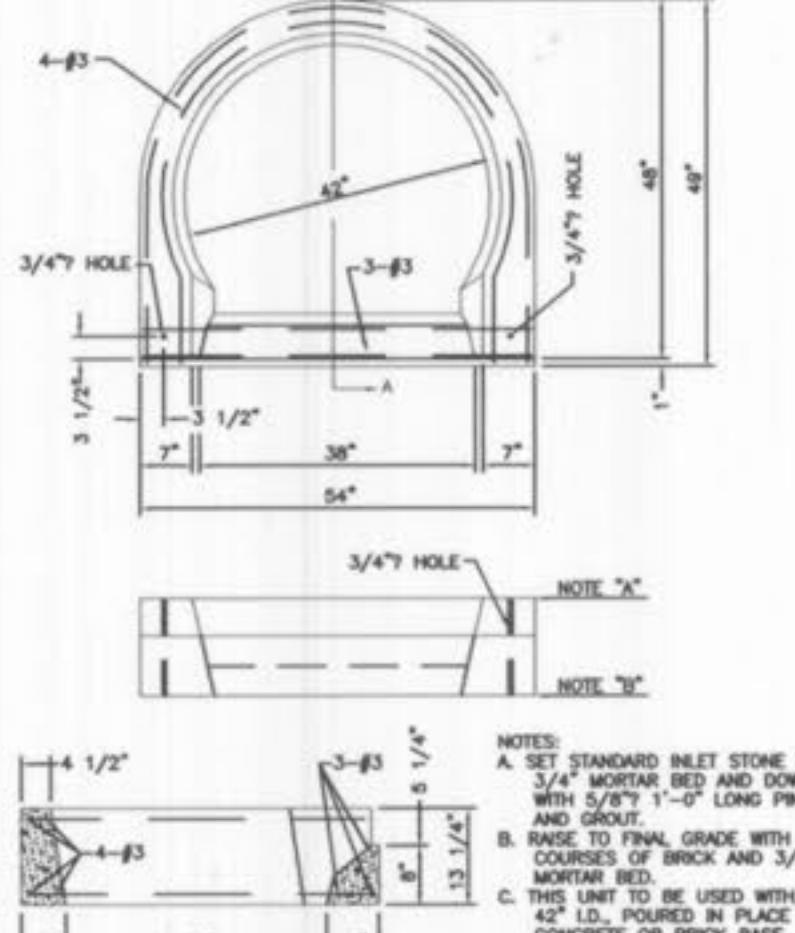
**PRECAST CONCRETE UNIT
FOR
4-WAY AREA INLET**



**DETAILS OF INLET
FRAME AND GRATES**



2 CRATE INLET



PRECAST CONCRETE UNIT
FOR
SINGLE CURB INLET

*STABILIZED CONSTRUCTION ENTRANCE
AND TEMP. TRUCK WASHDOWN AREA DETAIL*

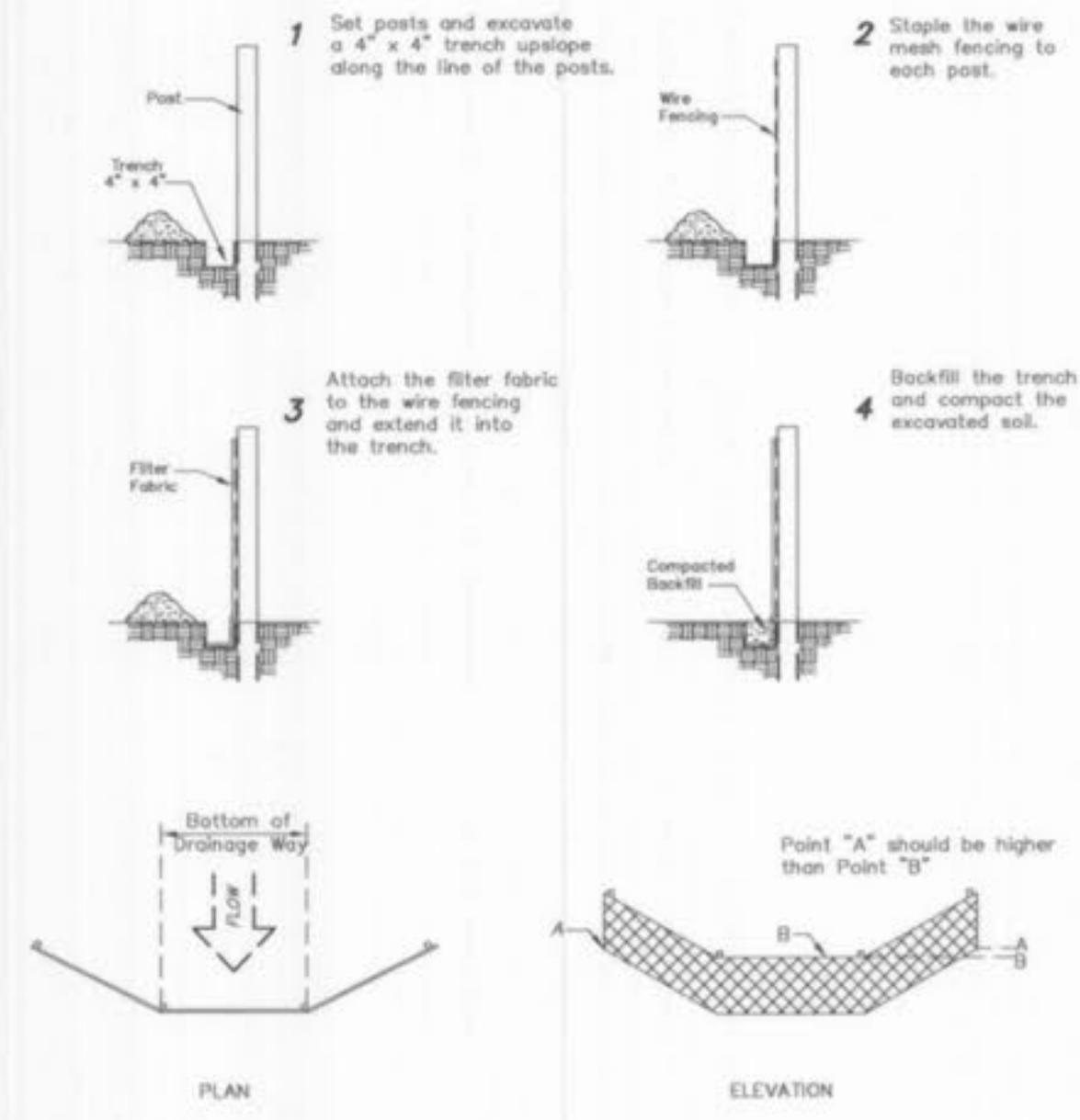
N.T.S.

SYNTHETIC FILTER BARRIERS for Urban Development Sites

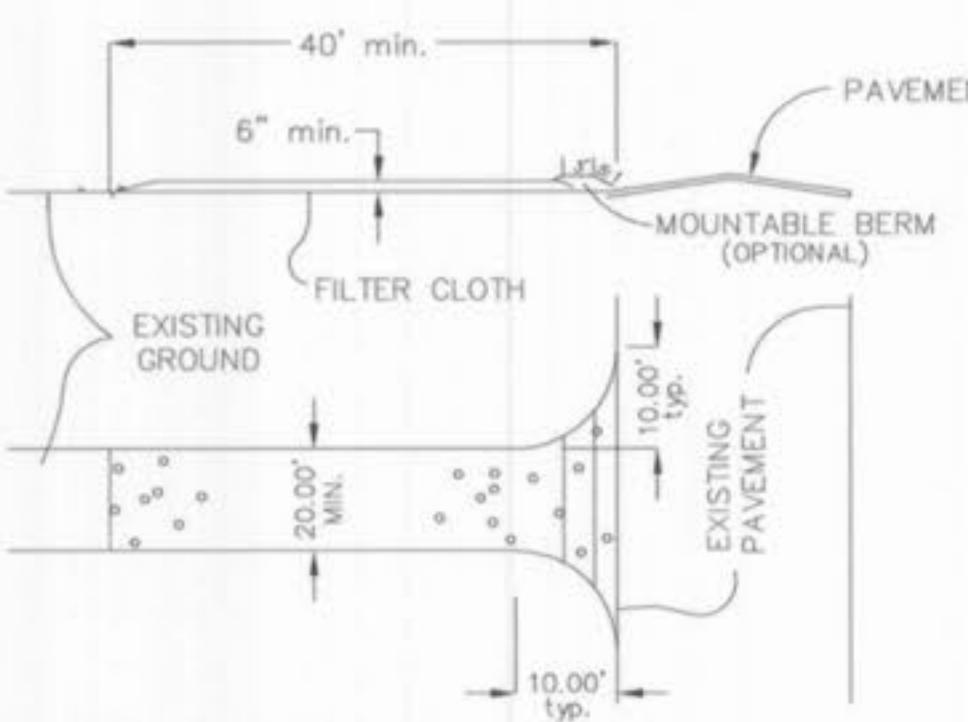
Carbon Development Sites

APPENDIX D

1. Filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
 2. Should the fabric decompose or become ineffective prior to the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
 3. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately half the height of the barrier.
 4. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



Placement and Construction of a Synthetic Filter Barrier



BRIGHT START IMPROVEMENT PLANS

Prepared For: _____

DRAWN <i>B.PARKS</i>	DATE 12-05-05
CHECKED <i>D.BYRD</i>	DATE 12-05-05
PROJECT # 01267.BRST.00C	
TASK # 2	FIELD BOOK X

BRIGHT START
IMPROVEMENT PLANS
SEWER PROFILES/
CONSTRUCTION DETAILS
SHEET 5 OF 7