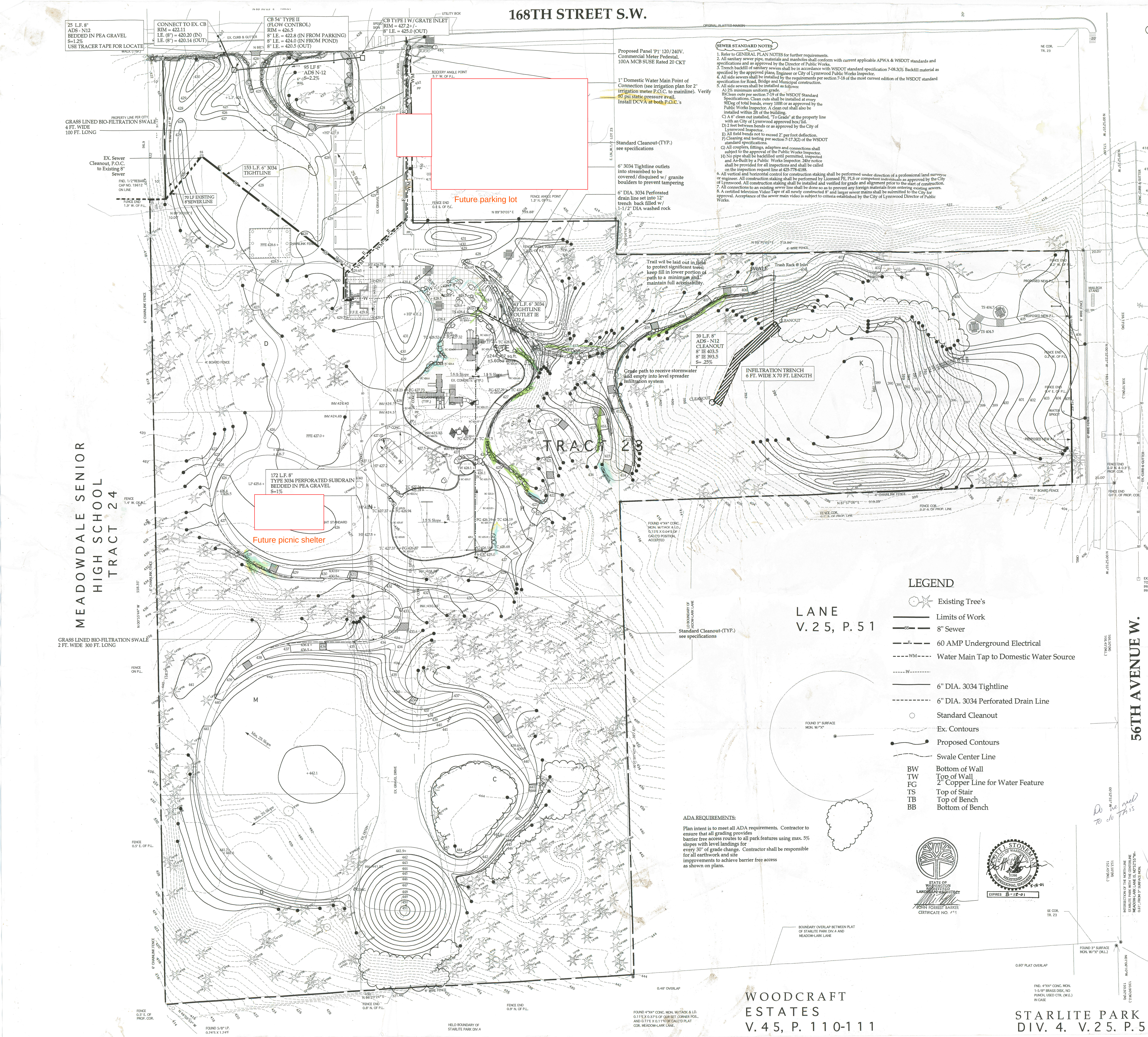

STANDARD GRADING NOTES:

1. Refer to GENERAL PLAN NOTES for further requirements.
2. Grading shall not result in any additional water to adjoining property. If additional water does result the applicant will submit a plan of corrective action for City approval and will commence with that action immediately upon notice from City.
3. The Contractor shall obtain approval for all fill and road construction material within City of Lynnwood right of way from the Director of Public Works prior to its use.
4. The Contractor shall be responsible for maintaining and repairing existing improvements, as required, until construction is approved by the City of Lynnwood Public Works Department.
5. The City shall verify and approve all backfill trenches and roadway subgrade prior to paving. The City of Lynnwood is to be provided with the density report from a certified "Testing lab" showing satisfactory compaction per WSDOT 2-06.3(14)D. All subgrade preparatory requirements shall conform to section 2-06 of the Washington State Standard Specifications for Road, Bridge and Municipal Construction
6. A preconstruction soils investigation shall be required as needed to evaluate soils stability.
7. The maximum cut/fill slope shall not exceed the two feet horizontal to one foot vertical unless otherwise approved by the Director of Public Works. At no time shall the toe of any fill slope be nearer to the property line than 1/2 the fill height with a minimum of 2ft. Cut slopes shall not be nearer to a property line than 1/5 the height of the cut with a minimum of 2ft.
8. All retaining structures four (4) feet in height or carrying a surcharge shall be designed by a Professional Civil Engineer experienced in soils mechanics.
9. A performance bond is required for concurrently reviewed early Grade permits. The bond shall be received prior to the issuance of the early grade permit and shall not be released until approved by the City of Lynnwood Director of Public Works.
10. All native growth protection areas shall be left in a substantially natural state. No clearing, grading, filling, building construction or placement, fence construction, or road construction of any kind shall occur within these areas; provided that underground utility lines and drainage discharge swales may cross such areas utilizing the shortest alignment possible if, and only if, no feasible alignment is available which would avoid such a crossing. Removal of vegetation by the property owner shall be limited to that which is dead, diseased or hazardous, and then only with the permission of the City of Lynnwood Department of Public Works.
11. Special inspection by an approved Geo-technical firm is required as directed by the City of Lynnwood Director of Public Works. Inspection reports shall be submitted to the City of Lynnwood for review, comment and approval prior to Public Works final approval of the work.

City of Lynnwood Public Works Department Development Number: D-01-018

WATER STANDARD NOTES

1. Refer to GENERAL PLAN NOTES for additional requirements.
2. All water mains shall be pressure tested and disinfected in accordance with the most current addition of the Washington State Standard Specifications for Road, Bridge and Municipal Construction, NFPA 24 and the City of Lynnwood requirements. All pressure testing shall be done in the presence of a representative of the City of Lynnwood. All mains shall be sterilized and flushed prior to placing lines into services. The main shall be inspected by the City of Lynnwood Public Works inspector prior to backfill. An as-built copy shall be provided to the City of Lynnwood prior to Public Works acceptance.
3. Ductile iron pipe shall be new, Class 53, cement-mortar lined, centrifugally cast pipe conforming to the requirements of AWWA C-151 and WSDOT standard spec. 9-30.1(1). Non restrained joints shall be rubber gasket, push on type, or mechanical type meeting the requirements of AWWA C111. Restrained joints shall be as specified in section 9-30.2(6) of Washington State Standard Specifications for Road, Bridge and Municipal Construction. All pipe shall be clearly marked with the manufacturer's name, type, class and thickness as applicable. All fittings shall be per WSDOT standard specification 9-30.2 and 9-30.2(1).
4. Concrete thrust blocking shall be placed at all bends, tees, dead ends, crosses and as designated by the Public Works Director. Blocking shall be class 3000 concrete mix or as approved, poured in place and cured against approved forms and native cut slopes. All blocking shall be inspected and approved prior to back fill.
5. Fire hydrants shall conform to 9-30.5 of the most current addition of Washington State Standard Specifications for Road, Bridge and Municipal Construction, AWWA C502, AWWA 110, AWWA C111, NFPA 24 and applicable City of Lynnwood specifications and standards.
6. Hydrant connection pipes shall be 6" inside diameter with 6" auxiliary gate valve. Barrels shall have a 7" minimum inside diameter. Valve openings shall be 5-1/4" minimum diameter. Hydrants shall have (2) 2-1/2" hose ports and one 4-1/2" steamer port with NST threads. Retainer glands to be Megalug or approved equivalent. 1/2CY, 3/4" to 1 1/2" drain rock required. 2 coats of "Rust-Oleum" high gloss caterpillar yellow required or acceptable alternative.
7. All hydrants shall be Mueller Centurion 200 A 423 or approved equal per City of Lynnwood Std.5-7.
8. 2" and smaller water service(s) within City of Lynnwood right of way and on private property shall be installed per WSDOT standard specification 9-30.6, the approved plans and City of Lynnwood standards 5-1 & 5-2. All services, unless specified, shall be installed by a City of Lynnwood approved contractor and at the developers expense. All 3" and larger services are always installed by the developer at no expense to the City of Lynnwood. The 3" and larger services shall be installed per the approved plans, WSDOT specifications and City of Lynnwood Standard 5-3.
9. Valve boxes shall be installed on all buried valves. The box shall be of cast iron, two-piece slip type standard design with a base corresponding to the size of the valve. The box shall be coal-tar painted by the manufacturer using the standard. The cover shall have the word "WATER" cast in it. Valve boxes shall conform to WSDOT spec. 9-30.3(4) and Lynnwood Standard 5-4.
10. Bedding for pipe shall be per WSDOT Standard Plan No. B-11. Backfill shall be placed per section 7-10 of the Washington State Standard Specifications for Road, Bridge and Municipal Construction, approved plans and City of Lynnwood Specifications and standards.
11. All water mains to maintain a minimum cover of 36 inches below finish grade. 12" minimum separation is required between utilities crossing perpendicularly,(18" for sanitary sewer). At no point should these depths exceed 6ft except when specifically approved on the plans or by the Public Works Inspector.
12. All pipe is to be laid at true line and grade unless otherwise approved by the City of Lynnwood. At no time shall the maximum pipe deflection exceed the manufacturer's requirements. The maximum permissable deflection per stick is as follows:

4"	21"
6"	19"
8"	19"
10"	19"
12"	19"

STORM DRAINAGE NOTES

1. See GENERAL PLAN NOTES for additional requirements.
2. All required storm water retention/detention facilities shall be constructed and operable prior to paving and building construction unless otherwise approved by Lynnwood Department of Public Works.
3. All pipe within public right-of-way shall meet current WSDOT/APWA standards and specifications and/or as approved by the Director of Public Works and shall be installed per WSDOT section 7-08.
4. Backfill shall be placed equally on both sides of the pipe or pipe-arch in layers with a loose average depth of 6", compacted to a density of 95%. Refer to WSDOT Std. Spec 7-08.3(3) and Std. Spec. 2-03.3(14)C, Method B & C.
5. Where shown on the plans or where directed by the Engineer or Director of Public Works, the existing manholes, catch basins, or inlets shall be adjusted to the grade as staked. All pipe and structures shall be staked for survey line and grade prior to the start of construction. All conflicts shall be brought to the attention of the Engineer and Director of Public Works prior to commencing construction.
6. All catch basins with a depth over 5 feet to flow line shall be Type2 structures per current WSDOT/APWA standards. All type 1 and 2 structures shall be provided with locking bolts. Ladder access is required on all type2 structures when 4 feet or greater in depth as measured to the inside finish floor or as approved by the Director of Public Works.
7. Developer to provide a certified video-tape of storm drainage construction after final cleaning. Final cleaning as required per WSDOT Spec7-04.3(1) and as directed by the City of Lynnwood Public Works Inspector.
8. Drainage outlets (stub-outs) shall be provided for each individual lot, unless otherwise approved by the City of Lynnwood. Stub-outs shall conform to the following:
a) Each outlet shall be suitably located at the lowest elevation on the lot, so as to service all future roof downspouts and footing drains, driveways, yard drains, and any other surface or subsurface drains necessary to render the lots suitable for their intended use.
b) Each outlet shall have free-flowing, positive drainage to an approved storm water conveyance system or an approved outfall location.
c) Outlets on each lot shall be located with a pressure treated 2"x4". Each marker board shall be clearly identifiable, protected and stubbed 5.0ft above the finish grade.
d) All pipe material shall conform to the approved plans and/or current WSDOT/APWA standards and specifications. All Substitutions shall subject to approval by the Engineer and City of Lynnwood Director of Public Works prior to construction.
e) 12 to 14 gauge tracer wire or locating tape shall be installed as required by the City of Lynnwood Public Works Inspector.
f) Drainage easements are required for drainage systems designed to convey flows through individual lots. Verification and approval is required prior to construction.
g) The applicant/contractor is responsible for coordinating the locations of all stub-out conveyance lines with respect to the utilities (e.g. power, gas, telephone, television).
h) All individual stub-outs shall be privately owned and maintained by the lot home owner, shall be a minimum of 4" diameter, and shall be provided with backflow protection as required.

BARKER LANDSCAPE ARCHITECTS, P.S.
1514 NW 52nd Street Seattle, WA 98107
TEL. 206.783.2870 FAX. 206.783.3212

Lynnwood
Parks, Recreation, and Cultural Arts Department
Laurie Cowan Parks Planner (425) 744.6478

MEADOWDALE

Neighborhood Park

5700 168th St. SW Lynnwood, Washington

North

Scale: 1" = 20'-0"

SUBMITTAL	DATE	DSGN	DRFT	CHK
Concept	4-11-01	SH/JB	SAH	JB
Final Concept	4-13-01	SH/JB	SAH	JB
Permit Drawings	5-18-01	SH	SH/CW	JB
Revisions	6-13-01	SH	SH	JB
Revisions	6-27-01	SH	SH	JB
Bid Set	7-26-01	CW/JB	CW	JB

Grading/Drainage & Utilities

Sheet 5