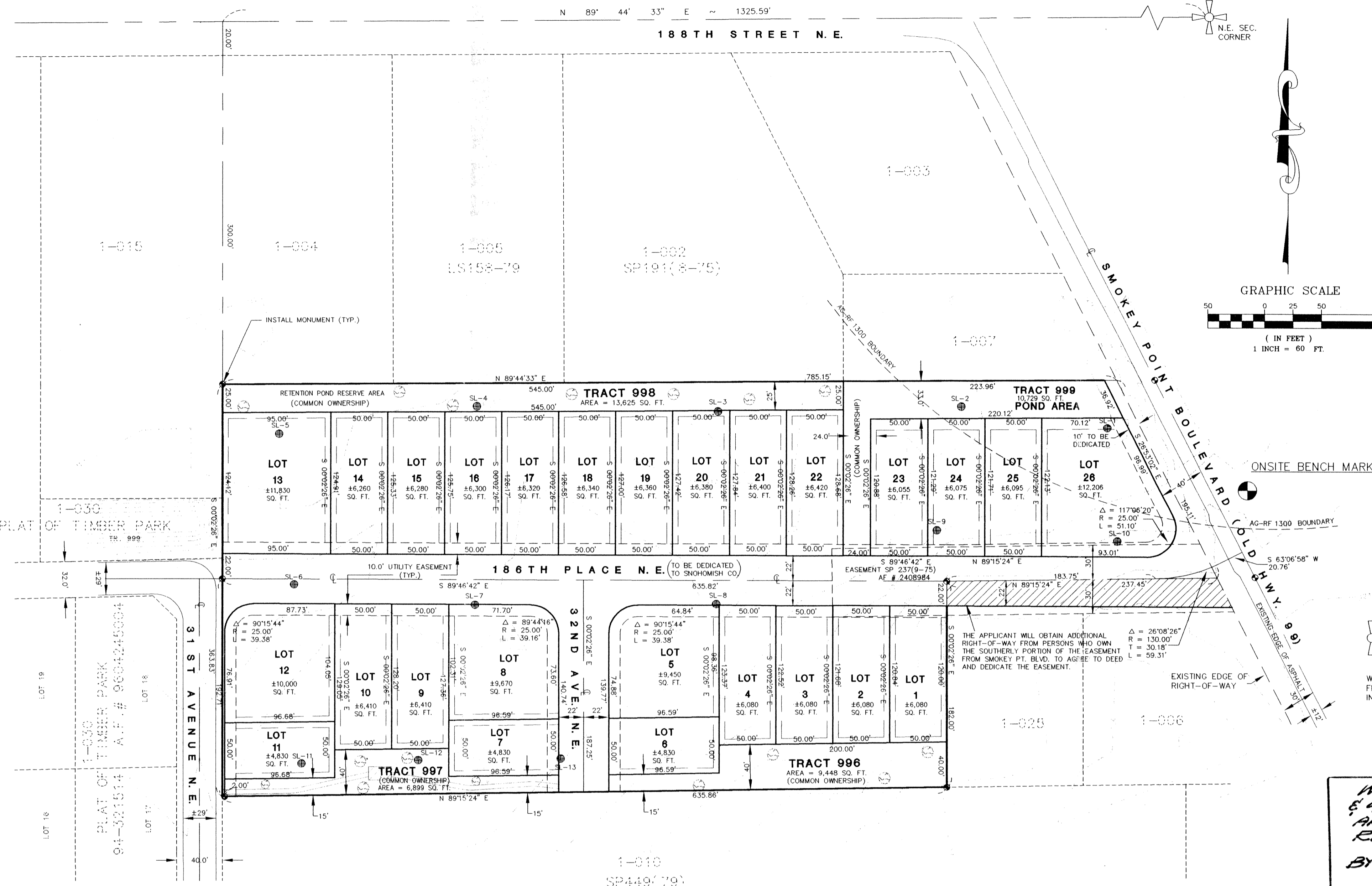


SEC. 20, T. 31 N., R. 5 E., W.M.



LEGAL DESCRIPTION

PARCEL 1: BEGINNING AT A POINT ON THE WEST LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 20, TOWNSHIP 31 NORTH, RANGE 5 EAST, WILLAMETTE MERIDIAN, WHICH IS 300 FEET SOUTH OF THE SOUTH LINE OF THE COUNTY ROAD RUNNING ALONG THE NORTH LINE OF SAID NORTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 89°25'30" EAST PARALLEL WITH THE NORTH LINE OF SAID NORTHEAST QUARTER OF THE NORTHEAST QUARTER TO INTERSECT THE WESTERLY LINE OF STATE ROAD NO. 1; THENCE SOUTH 27°11'15" EAST ALONG SAID WEST LINE TO ITS INTERSECTION WITH A LINE WHICH IS 172 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF NORTH HALF OF SAID NORTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE SOUTH 88°56'20" WEST ALONG SAID PARALLEL LINE TO THE WEST LINE OF SAID NORTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 0°23'06" WEST ALONG SAID WEST LINE TO THE POINT OF BEGINNING.

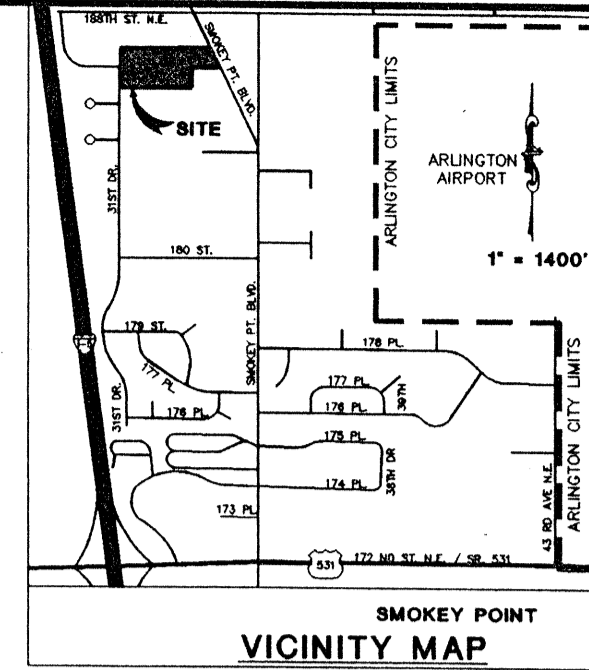
(ALSO KNOWN AS LOT B OF SHORT PLAT RECORDED UNDER AUDITOR'S FILE NO. 7510108984).

PARCEL 2: BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 100 FEET OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 20, TOWNSHIP 31 NORTH, RANGE 5 EAST, WILLAMETTE MERIDIAN, WITH THE WEST LINE OF STATE ROUTE NO. 1; THENCE SOUTH 88°56'20" WEST ALONG SAID SOUTH LINE 329 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING SOUTH 88°56'20" WEST TO THE WEST LINE OF SAID NORTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 0°23'06" WEST ALONG SAID WEST LINE 182 FEET; THENCE NORTH 88°56'20" EAST TO A POINT NORTH 0°23'06" WEST OF THE TRUE POINT OF BEGINNING; THENCE SOUTH 0°23'06" EAST 182 FEET TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER THE FOLLOWING DESCRIBED TRACT: BEGINNING AT THE NORTHEAST CORNER OF THE ABOVE DESCRIBED MAIN TRACT; THENCE SOUTH 0°23'06" WEST 30 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 88°56'20" WEST 100 FEET; THENCE NORTH 0°23'06" EAST 60 FEET; THENCE NORTH 88°56'20" EAST TO THE WESTERLY LINE OF STATE ROUTE NO. 1; THENCE SOUTH 27°11'15" EAST ALONG SAID WEST LINE TO A POINT THAT BEARS NORTH 88°56'20" EAST FROM THE TRUE POINT OF BEGINNING; THENCE SOUTH 88°56'20" WEST TO THE TRUE POINT OF BEGINNING.

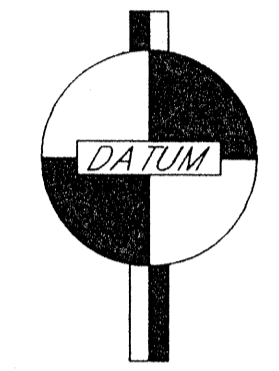
EXCEPT ANY PORTION THEREOF LYING WITHIN THE MAIN TRACT.

(ALSO KNOWN AS LOT C OF SHORT PLAT RECORDED UNDER AUDITOR'S FILE NO. 7510108984). SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.



REFERENCE TAX ACCOUNT NO:
203105-1-021-0007

APPLICANT/ OWNER: GRANDVIEW, INC.
P. O. BOX 159
ARLINGTON, WA 98223
(360) 435-7171



DATUM: NGVD 1929
ON-SITE BENCH MARK:
604 NORTH SIDE TELEPHONE POLE. ELEV. = 121.22'

LEGEND

- CENTERLINE
- PROPERTY LINE
- ROAD
- EASEMENT
- EXISTING GROUND CONTOUR
- SOIL LOG
- MONUMENT PER E.D.D.S.
- BUILDING SETBACK, 10' SETBACK FRONT, 5' SIDES AND BACK
- EXISTING NATIVE VEGETATION TO BE RETAINED

CONSTRUCTION SEQUENCE AND SCHEDULE:

1. SET UP PRE-CONSTRUCTION MEETING WITH SNOHOMISH COUNTY.
 2. INSTALL T.E.S.C. FILTERS AS SPECIFIED ON SHEET 2.
 3. CLEAR AND GRUB THE ROADS AND THE POND.
 4. ROUGH GRADE THE ROADS AND POND.
 5. INSTALL SANITARY SEWER.
 6. INSTALL WATER.
 7. INSTALL CULVERTS AND ANY DRAINAGE STRUCTURES.
 8. FINAL GRADING, AND GRAVELING OF THE ROADS.
 9. FINAL GRADING OF THE POND.
 10. INSTALL CURB AND GUTTERS.
 11. THE PAVING OF ALL THE ROADS.
 12. SEED ALL DISTURBED AREAS.
- *** CONSTRUCTION TO START AS SOON AS THE PROJECT IS APPROVED AND IT WILL PROCEED IN A TIMELY MANNER.

WE HEREBY DECLARE THAT THE ROAD & STORM DRAINAGE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE RECORDED DRAWINGS.

BY: PROJECT ENGINEER/DATE: S-15-99
DATE: 5/18/99

BY: PLAT DEVELOPER/DATE: 5/18/99
DATE: 5/18/99

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH SNOHOMISH COUNTY STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1998 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE 1989 WSDOT HYDRAULICS MANUAL.
2. ALL WORK WITHIN THE SITE AND COUNTY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE COUNTY INSPECTOR OR HIS DESIGNATED REPRESENTATIVE.
3. PRIOR TO ANY SITE WORK PERTAINING TO DRAINAGE, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (206) 388-3385 TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE. DUE TO FIELD CHANGES REQUIRING REVISIONS, A REVISED CONSTRUCTION PLAN, SIGNED AND STAMPED BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE INSPECTOR AND APPROVED BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION CHANGES.
4. ALL SITE WORK MUST COMPLY TO CHAPTER 33 OF THE BUILDING CODE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HEREON ARE FOR THE PURPOSE OF ASSISTING THE CONTRACTOR IN LOCATING SAID FACILITIES. NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE ACCURACY OR COMPLETION SHOWN. THE CONTRACTOR SHALL CALL DIAL-DIG 48 HOURS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR REPAIRING ASPHALT AND GRAVEL SURFACES DISTURBED AS A RESULT OF THIS CONSTRUCTION UNTIL THEY ARE ACCEPTED BY THE COUNTY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR UTILITY CONSTRUCTION.
8. ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE COUNTY ENGINEER THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACKFILLED TO GRADE WITH SAND-GRAVEL, CRUSHED ROCK OR OTHER SUITABLE MATERIAL. NEVER INSTALL PIPE ON SOIL, FROZEN EARTH, LARGE BOULDERS OR ROCK.
9. THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6", MAXIMUM DEPTH 8", THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO WSDOT STD. SPEC. 7-04-(3/3) AND STD. SPEC. 2-03-(3/14)C, METHOD B & C.
10. ALL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
11. TRENCH BACKFILL OF NEW UTILITIES SHALL BE COMPACT TO 95% RELATIVE COMPACTION UNDER ROADWAYS AND 90% RELATIVE COMPACTION OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03-(3/14)D AND SECTION 2-03(14)B.
12. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
13. PROVIDE AND MAINTAIN THE TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE SEDIMENT LADEN WATERS DO NOT ENTER THE NATURAL DRAINAGE SYSTEM.
14. ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACKSLOPES, ETC. SHALL BE SEED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.
15. ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS. PRE-CONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
16. IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL WILL BE REQUIRED. ALL ROCK RETAINING WALLS ARE TO FOLLOW COUNTY SPECIFICATIONS AND ARE TO BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOILS MECHANICS.
17. VEGETATION SHALL BE ESTABLISHED ON AREAS DISTURBED OR ON AREAS OF CONSTRUCTION AS NECESSARY TO MINIMIZE EROSION.
18. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDRO-SEED PREFERRED.
19. AREAS TO BE ROUGH-GRADED WITH FINISH GRADING TO FOLLOW NEAR PROJECT COMPLETION ARE TO BE SEED WITH ANNUAL, PERENNIAL OR HYBRID RYE GRASS. THIS INCLUDES PERIMETER DIKES AND THE SEDIMENT BASIN EMBANKMENT. HYDRO-SEED PREFERRED.
20. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80% PER ACRE). THIS TO INCLUDE THE FOLLOWING:
20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS
40% CREEPING RED FESCUE
40% WHITE CLOVER
HYDRO-SEED PREFERRED
21. FERTILIZER SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.
PREPARATION OF SURFACE: ALL AREAS TO BE SEED SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS.
LOT LINES SHOWN HEREON ARE APPROXIMATE. ACTUAL PLATTED DIMENSIONS AND/OR DEED LOCATIONS SHALL TAKE PRECEDENCE.
22. TESTING SHALL BE SET FORTH BY SNOHOMISH COUNTY.
23. PIPE SPECIFICATIONS: UNLESS OTHERWISE NOTED, ALL STORM SEWER PIPE SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE. ALL PIPE 12" OR LARGER SHALL BE DOUBLE WALLED SMOOTH INTERIOR.
24. PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER'S NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, 435-5551.
25. THE DEVELOPER/PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, 435-5551.
26. PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (206) 388-3385 TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE. DUE TO FIELD CHANGES (REVISIONS), ENGINEERED AS-BUILTS SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
27. NON-COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL CATCH BASIN FRAMES AND GRATES JUST PRIOR TO PAVING.
29. FOOTING DRAINS (IF REQUIRED) ARE TO BE TIGHT-LINED AWAY FROM STRUCTURES, AND DAY-LIGHTED.
30. INSTALL CONCRETE MONUMENT IN CASE W/COVER PER SNO. CO. EDDS WHERE EVER SHOWN ON PLANS. (SEE TYPICAL MONUMENT DETAIL SHEET 7)
31. ALL PIPE ENDS TO BE BEVELED, AS PER SNOHOMISH COUNTY E.D.D.S. STANDARD PLAN 9-040, WITH RIPRAP HEADWALLS MORTERED IN PLACE.
32. ALL CATCH BASINS SHALL BE TYPE I, UNLESS OTHERWISE NOTED.
33. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS EXCEEDING 4 FEET IN DEPTH.
34. ALL CATCH BASINS WITH A DEPTH OVER 5 FEET TO THE FLOWLINE SHALL BE TYPE 2 C.B.
35. AREAS OF FILL WHICH ARE INTENDED TO SUPPORT STRUCTURES MUST BE TESTED BY A GEOTECHNICAL ENGINEER AND THE RESULTS MUST BE REPORTED TO THE COUNTY.
36. PRIOR APPROVAL MUST BE OBTAINED FROM THE DIRECTOR BEFORE ANY STRUCTURES, FILL OR OBSTRUCTIONS, INCLUDING FENCES, ARE LOCATED WITHIN ANY DRAINAGE EASEMENT OR DELINEATED FLOOD PLAIN AREA.

GRADING QUANTITIES

3,023 Cubic Yards Cut
3,023 Cubic Yards Fill

AS BUILT

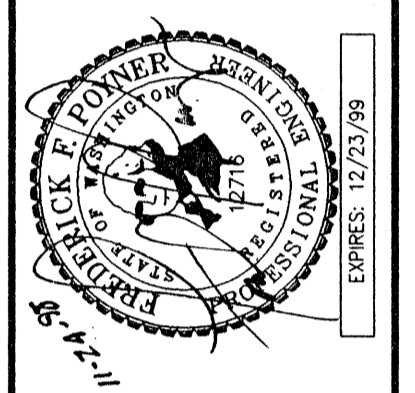
5/18/99
APP 6-15-99

#	DESCRIPTION	FILE NAME
1	COVER SHEET	12914EN1.DWG
2	T.E.S.C. PLAN WITH CLEARING LIMITS	12914EN2.DWG
3	TYP. INDIVIDUAL LOT T.E.S.C. PLAN	12914EN3.DWG
4	INDIVIDUAL LOT INFORMATION	12914EN4.DWG
5	ROAD & STORM PLAN	12914EN5.DWG
6	DETENTION POND PLAN	12914EN6.DWG
7	OPEN SPACE PLAN	12914EN7.DWG
8	MISC. DETAILS	12914EN8.DWG
1	WATER PLAN	12914WT1.DWG
2	WATER PLAN	12914WT2.DWG
1	SANITARY SEWER PLAN	12914SW1.DWG
2	SANITARY SEWER PLAN	12914SW2.DWG
3	SANITARY SEWER PLAN	12914SW3.DWG
4	SANITARY SEWER PLAN	12914SW4.DWG
1	SIGNING & CHANNELIZATION	12914CH1.DWG
1	GRADING PLAN	12914GR1.DWG
2	GRADING PLAN	12914GR2.DWG
3	GRADING PLAN	12914GR3.DWG

RECEIVED
JUN 2 5 1999
PLANNING & DEVELOPMENT
CITY OF WA
SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION
By: [Signature] 12/1/98
R/W PERMIT NO. 98-11073 R5P

CASCADE SURVEYING & ENGINEERING, INC.
Planners
Surveyors
Engineers

P.O. BOX 326
ARLINGTON, WASHINGTON 98223
(360) 435-4551
FAX: (360) 435-4012
1-800-993-5551



DESIGNED	DATE	DRAWN	DATE	CHECKED	DATE	FIELD BOOK	NO.
	8/98		8/98		9/98		465

FILE NO. 97-101613

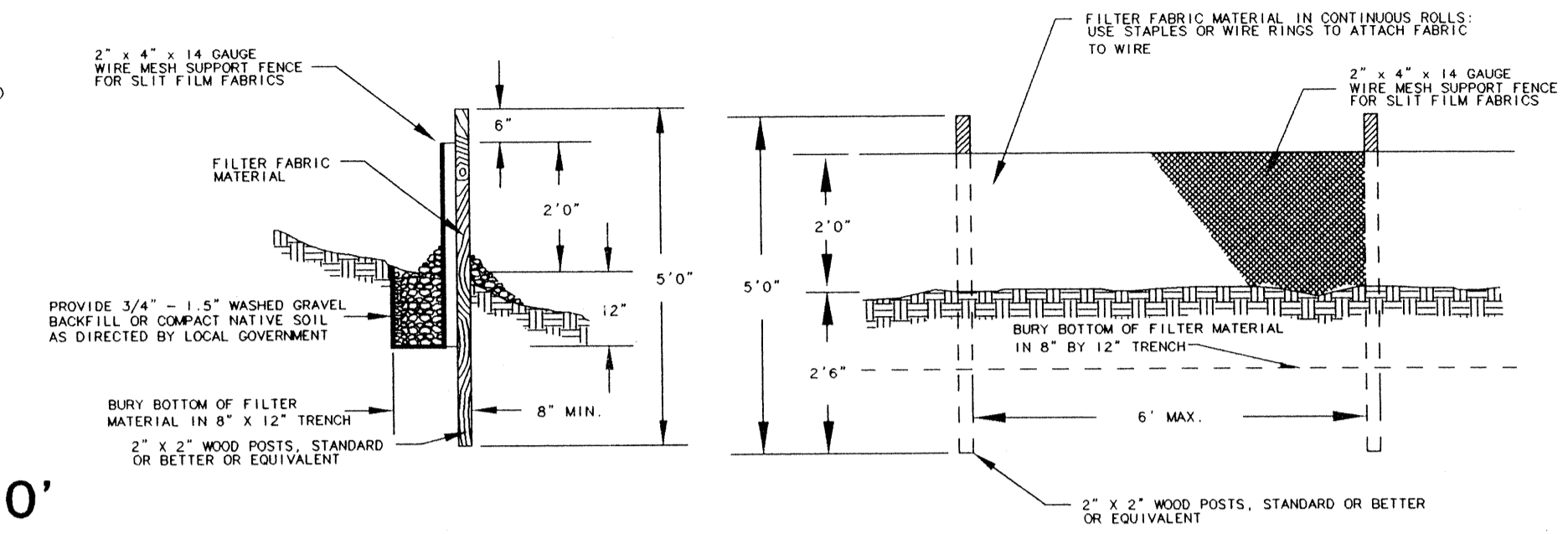
SMOKEY POINT ESTATES - P.R.D.

Approved As Built

SEC. 20, T. 31 N., R. 5 E., W.M.

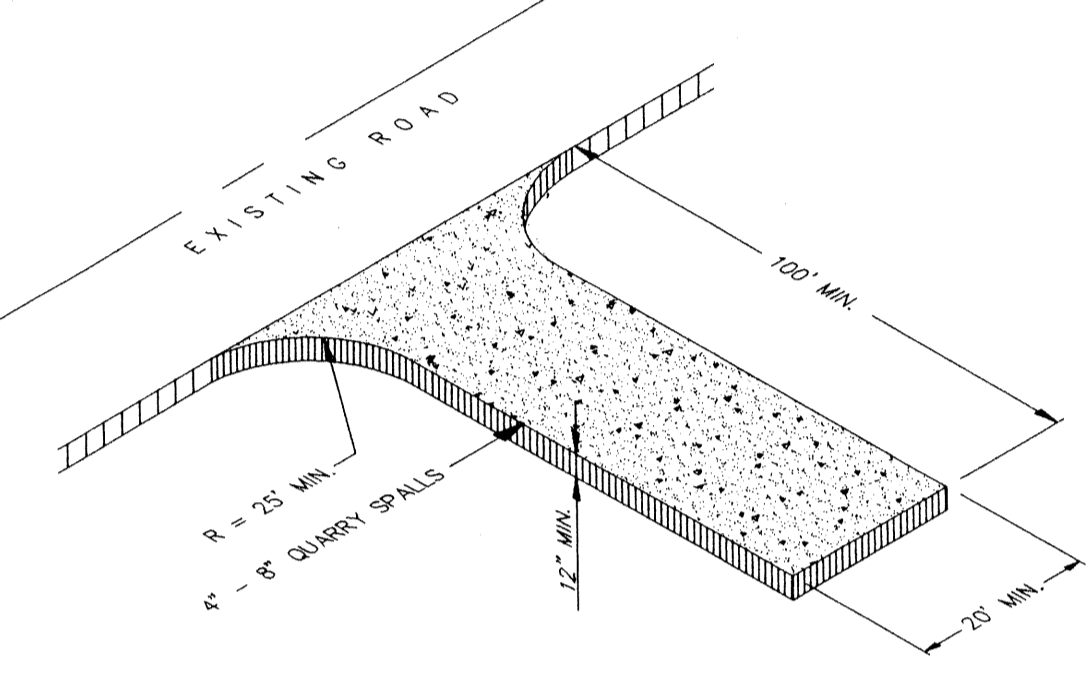
FILTER FABRIC FENCE DETAIL

~ D.O.E. FIGURE II-5.18 ~
N.T.S.



CONSTRUCTION ENTRANCE & TIRE WASH

~ D.O.E. FIGURE II-5.4 ~
N.T.S.

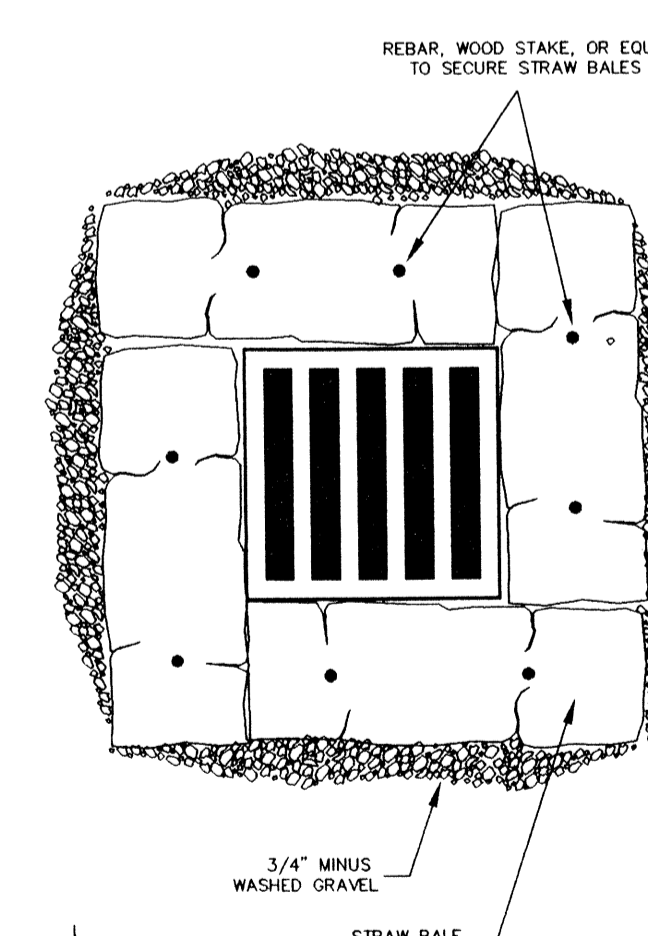


LEGEND

PROPERTY LINE	---
LOT LINE	---
ADJACENT PARCELS	---
CENTER LINE	---
EXIST. EDGE OF ROAD	---
PROPOSED EDGE OF ROAD	---
EXISTING CONTOURS	---
FINISHED CONTOURS	---
FILTER FABRIC FENCE	---
LIMITS OF CLEARING (PHASE 1)	---
LIMITS OF CLEARING (PHASE 2)	---

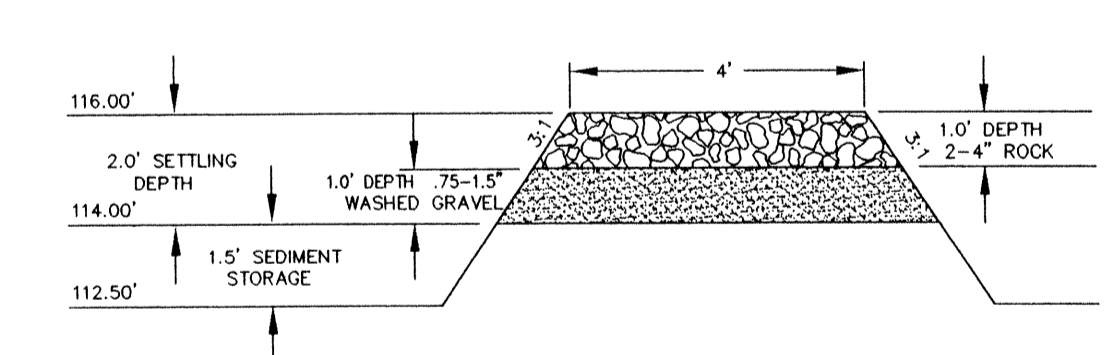
STRAW BALE INLET PROTECTION

N.T.S.



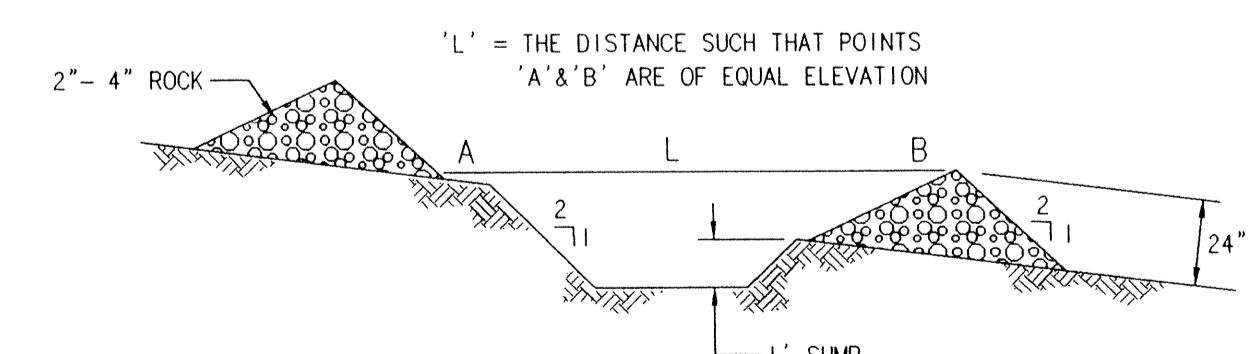
TEMP. SEDIMENT TRAP DETAIL

~ D.O.E. FIGURE II-5.28 ~
N.T.S.



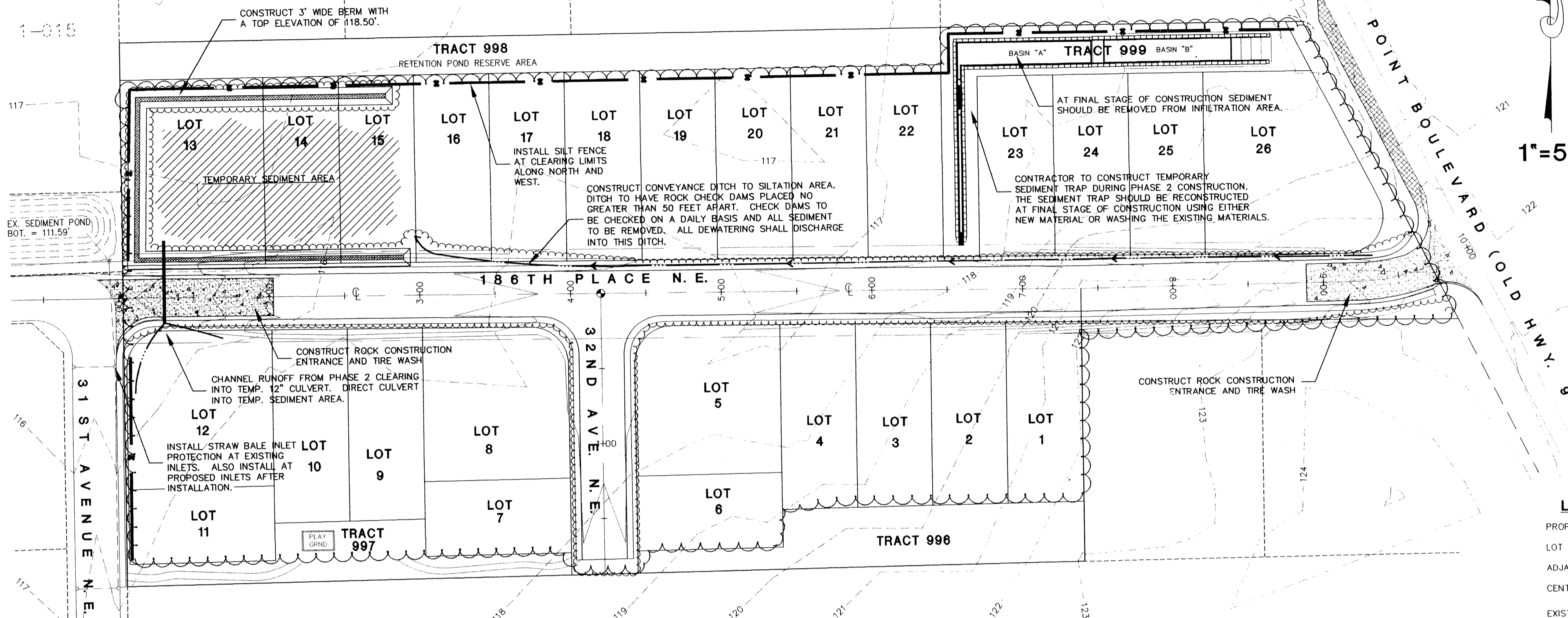
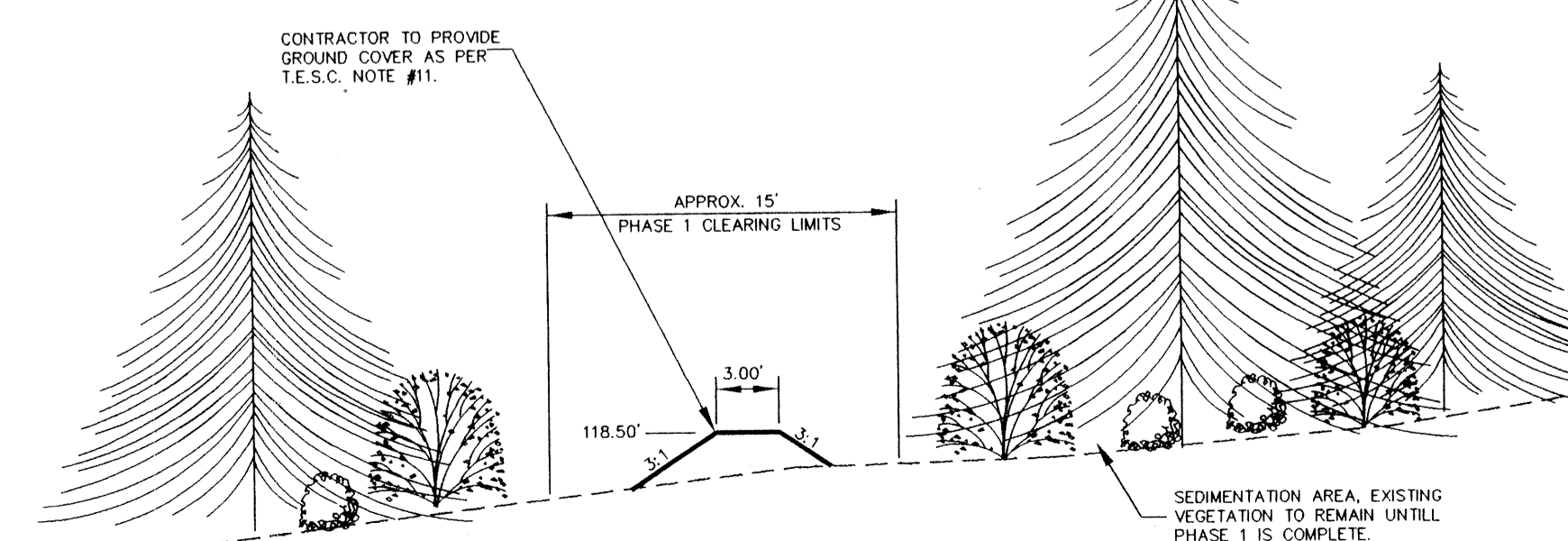
ROCK CHECK DAM DETAIL

N.T.S.



SECTION A-A

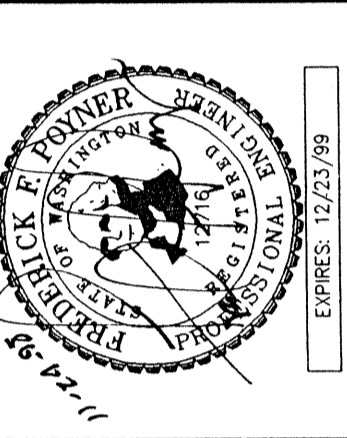
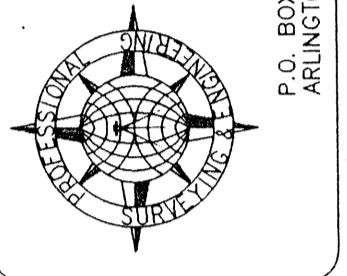
N.T.S.



T.E.S.C. NOTES:

- NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS, AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER'S NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, (360) 435-5551.
- THE DEVELOPER/PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, (360) 435-5551.
- PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (425) 388-3385 TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE. DUE TO FIELD CHANGES/REVISIONS, ENGINEERED AS-BUILTS SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
- THE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL SITE WORK MUST COMPLY TO CHAPTER 33 OF THE UNIFORM BUILDING CODE. (1994 EDITION)
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS. PRE-CONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- A GRADING PERMIT ISSUED PURSUANT TO TITLE 17 SCC AND CHAPTER 33 UBC AND APPROVAL OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN SHALL HAVE BEEN OBTAINED FROM COMMUNITY DEVELOPMENT FOR ANY ON-SITE GRADING WHICH IS NOT EXPRESSLY EXCEPTED BY SECTION 3306.2 UBC.
- PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION, EXCAVATION, AND FILL OPERATIONS.
- THE SITE SOILS ARE GENERALLY CONSIDERED MOISTURE SENSITIVE AND AS SUCH ARE SUSCEPTIBLE TO DISTURBANCE BY CONSTRUCTION EQUIPMENT, PARTICULARLY DURING PERIODS OF WET WEATHER. THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.
- ALL DISTURBED AREAS AND TEMPORARY STOCK PILES SHALL BE SEEDED WITH A TEMPORARY SEED MIX CONSISTING OF 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER. HYBRID SEED PREFERRED. IF SEEDING OCCURS FROM MARCH 2 TO OCT. 31, MULCHING OR STRAW MATTING SHALL BE APPLIED. IF SEEDING OCCURS FROM NOVEMBER 1 TO MARCH 1, CLEAR PLASTIC SHEETING SHALL BE APPLIED ON AREAS WITH SLOPES OVER 10%.
- CLEAR PLASTIC SHEETING SHALL HAVE A MIN. THICKNESS OF 6 MIL. AND MEET THE REQUIREMENTS OF WSDOT/APWA SECTION 9-14.5.
- PLASTIC SHEETING SHOULD BE TOED IN AT THE TOP OF THE SLOPE TO PREVENT SURFACE FLOW BENEATH THE PLASTIC.
- PLASTIC SHEETING SHALL BE ANCHORED WITH SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM GRID SPACING OF 10' IN ALL DIRECTIONS.
- WHERE POSSIBLE NATURAL VEGETATIVE FILTER STRIPS SHOULD BE RETAINED TO LESSEN RUNOFF ON STEEP SLOPES.
- UNVEGETATED SLOPES SHOULD BE TEMPORARILY SCARIFIED TO MINIMIZE RUNOFF. THIS MAY BE ACCOMPLISHED BY RUNNING A DOZER UP THE SLOPE TO CREATE GROOVES PERPENDICULAR TO THE SLOPE DIRECTION.
- CONTRACTOR SHALL PREVENT OR MINIMIZE EROSION AND SEDIMENTATION ON-SITE AND SHALL PROTECT PROPERTIES AND WATER COURSES DOWNSTREAM FROM THE SITE FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY AND PEAK FLOW RATE OF STORM WATER RUNOFF FROM THE SITE.
- THE CONTRACTOR SHALL APPLY ANY ADDITIONAL T.E.S.C. MEASURES TO PREVENT OR MINIMIZE THE TRANSPORT OF SEDIMENT ONTO PAVED SURFACES DURING ALL PHASES OF CONSTRUCTION, AND IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, TO CLEAN THE PAVED SURFACE AT THE END OF EACH DAY.
- FROM OCTOBER 1 TO APRIL 30, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 7 DAYS. ON PORTIONS OF THE SITE WHERE ACTIVE GRADING IS IN PROGRESS, THE DIRECTOR MAY EXTEND THE DEADLINE FOR SOIL STABILIZATION UPON DETERMINING THAT THE LIKELIHOOD OF EROSION IMPACTS IS LOW BASED ON THE TYPE AND AMOUNT OF SOIL EXPOSED, SITE TOPOGRAPHY, THE POTENTIAL FOR DISCHARGE TO CRITICAL AREAS AND LAKES, AND OTHER FACTORS. UPON FINDING A RISK OF EROSION, THE CONTRACTOR SHALL IMMEDIATELY APPLY EROSION CONTROL MEASURES, REGARDLESS OF ANY PREVIOUSLY ESTABLISHED DEADLINE, AND THE DIRECTOR MAY REQUIRE IMMEDIATE STABILIZATION AT ANY TIME FOR THIS PURPOSE. THE CONTRACTOR SHALL KEEP MATERIALS, EQUIPMENT, AND OTHER RESOURCES ON SITE AT ALL TIMES, IN ADEQUATE QUANTITIES TO IMMEDIATELY STABILIZE ALL SOIL.
- ALL DENuded AREAS SHALL BE COVERED BY MULCH, SOD, PLASTIC, OR OTHER AS APPROVED BY THE DIRECTOR.
- SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED BY THE MEANS IN NOTE 20 WITHIN 24 HOURS OF FORMATION TO PREVENT SOIL LOSS.
- GRADING AND CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES IN ORDER TO MINIMIZE SOIL EXPOSURE.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL BMPs WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THEY ARE NO LONGER NECESSARY.
- BEFORE CONSTRUCTION ACCEPTANCE BY THE COUNTY, THE CONTRACTOR SHALL ESTABLISH A PERMANENT VEGETATIVE COVER TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS ON ALL AREAS OF LAND DISTURBANCE NOT OTHERWISE PERMANENTLY STABILIZED BY IMPERVIOUS SURFACES OR OTHER MEANS.
- THE CONTRACTOR SHALL MAINTAIN AND REPAIR AS NECESSARY ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs TO ASSURE THEIR CONTINUED PERFORMANCE THROUGH CONSTRUCTION ACCEPTANCE AND EXTENDING TO THE RELEASE OF ALL ASSOCIATED WARRANTY SECURITY AND MAINTENANCE SECURITY.
- BEFORE PERFORMING ANY GRADING OR CLEARING, THE APPLICANT SHALL MARK, IN THE FIELD, THE LIMITS OF ALL PROPOSED CLEARING AND GRADING.
- THE CONTRACTOR SHALL PROTECT STORM SEWER INLETS RECEIVING STORM WATER RUNOFF DURING CONSTRUCTION SO THAT WATER WILL NOT ENTER THE INLET WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO MINIMIZE THE AMOUNT OF SEDIMENT ENTERING THE INLET.
- THE CONTRACTOR SHALL ROUTE STORM WATER RUNOFF FROM DISTURBED AREAS OF THE SITE THROUGH SEDIMENT PONDS, TRAPS OR OTHER APPROVED FILTER DEVICES PRIOR TO DISCHARGE FROM THE SITE. IF SITE CONDITIONS WARRANT, THE DIRECTOR MAY REQUIRE ADDITIONAL SEDIMENT CONTROLS, INCLUDING BUT NOT LIMITED TO, PRESERVING A VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF THE SITE.
- THE CONTRACTOR SHALL PERIODICALLY REMOVE TRAPPED SEDIMENTS FROM THE SEDIMENT PONDS AND SEDIMENT TRAPS. TRAPPED SEDIMENT MAY BE PERMANENTLY STABILIZED ON-SITE.
- BETWEEN OCTOBER 1 AND MARCH 31, NO MORE THAN 500' OF CONTINUOUS TRENCH MAY REMAIN OPEN AT ONE TIME UNLESS CHECK DAMS TO REDUCE FLOW VELOCITIES AND PREVENT EROSION ARE INSTALLED IN ACCORDANCE WITH THE SNOHOMISH COUNTY DRAINAGE MANUAL.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCHES, UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS.
- WATER FROM A DEWATERING DEVICE SHALL DISCHARGE INTO A SEDIMENT TRAP OR A SEDIMENT POND.
- THE CONTRACTOR SHALL IMPLEMENT FULLY THE T.E.S.C. PLAN AT EACH STAGE OF SITE DEVELOPMENT.

CASCADE SURVEYING & ENGINEERING, INC.
Planners
Engineers
Surveyors
P.O. BOX 326
ARLINGTON, WASHINGTON 98223
(360) 435-5551
FAX: (360) 435-5551
1-800-939-5551



DESIGNED	DATE 8/98
DRAWN	T.N. DATE 8/98
CHECKED	R.L.D. DATE 9/98
FIELD BOOK	SNO. 465
DATE	11/98
T.N.	
T.N.	
DATE	
BY	

SMOKEY POINT ESTATES - P.R.D.
FILE NO. 97-101613
T.E.S.C. PLAN

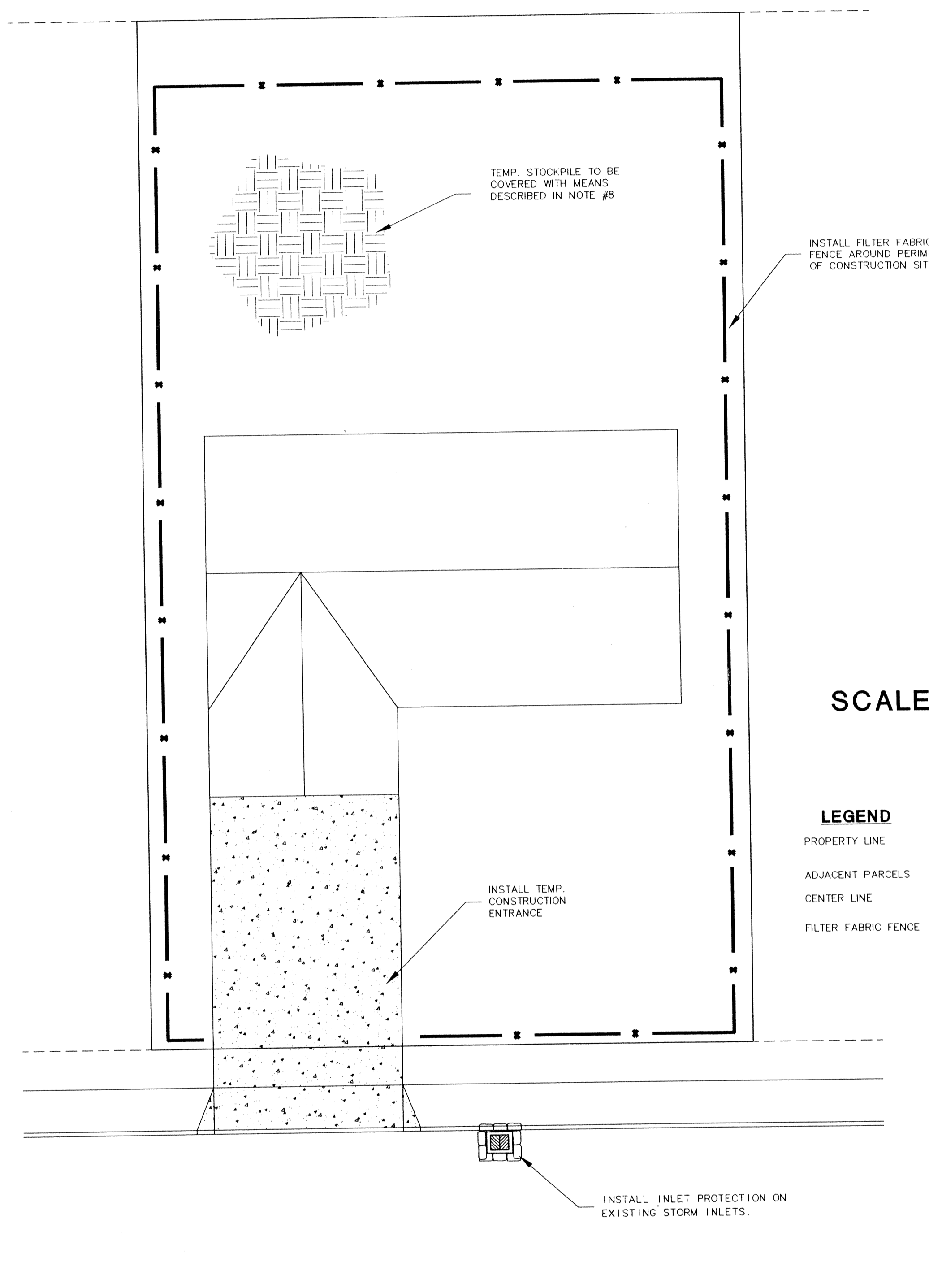
SMOKEY POINT ESTATES - P.R.D.
FILE NO. 97-101613
T.E.S.C. PLAN

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION
By: *Paul R. Slight* 12/1/98
R/W PERMIT NO. 98110735

SEC. 20, T. 31 N., R. 5 E., W.M.

T.E.S.C. NOTES:

- NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEERS NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, (360) 435-5551.
- THE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL SITE WORK MUST COMPLY TO CHAPTER 33 OF THE UNIFORM BUILDING CODE. (1994 EDITION)
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS. PRE-CONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION, EXCAVATION, AND FILL OPERATIONS.
- THE SITE SOILS ARE GENERALLY CONSIDERED MOISTURE SENSITIVE AND AS SUCH ARE SUSCEPTIBLE TO DISTURBANCE BY CONSTRUCTION EQUIPMENT. PARTICULARLY DURING PERIODS OF WET WEATHER THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.
- ALL DISTURBED AREAS AND TEMPORARY STOCK PILES SHALL BE SEEDED WITH A TEMPORARY SEED MIX CONSISTING OF 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER. HYDROSEED PREFERRED. IF SEEDING OCCURS FROM MARCH 2 TO OCT. 31, MULCHING OR STRAW MATTING SHALL BE APPLIED. IF SEEDING OCCURS FROM NOVEMBER 1 TO MARCH 1, CLEAR PLASTIC SHEETING SHALL BE APPLIED ON AREAS WITH SLOPES OVER 10%.
- CLEAR PLASTIC SHEETING SHALL HAVE A MIN. THICKNESS OF 6 MIL. AND MEET THE REQUIREMENTS OF WSDOT/APWA SECTION 9-14.5.
- PLASTIC SHEETING SHOULD BE TOED IN AT THE TOP OF THE SLOPE TO PREVENT SURFACE FLOW BENEATH THE PLASTIC.
- PLASTIC SHEETING SHALL BE ANCHORED WITH SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM GRID SPACING OF 10' IN ALL DIRECTIONS.
- WHERE POSSIBLE NATURAL VEGETATIVE FILTER STRIPS SHOULD BE RETAINED TO LESSEN RUNOFF ON STEEP SLOPES.
- UNVEGETATED SLOPES SHOULD BE TEMPORARILY SCARIFIED TO MINIMIZE RUNOFF. THIS MAY BE ACCOMPLISHED BY RUNNING A DOZER UP THE SLOPE TO CREATE GROOVES PERPENDICULAR TO THE SLOPE DIRECTION.
- CONTRACTOR SHALL PREVENT OR MINIMIZE EROSION AND SEDIMENTATION ON-SITE AND SHALL PROTECT PROPERTIES AND WATER COURSES DOWNSTREAM FROM THE SITE FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY AND PEAK FLOW RATE OF STORM WATER RUNOFF FROM THE SITE.
- THE CONTRACTOR SHALL APPLY ANY ADDITIONAL T.E.S.C. MEASURES TO PREVENT OR MINIMIZE THE TRANSPORT OF SEDIMENT ONTO PAVED SURFACES DURING ALL PHASES OF CONSTRUCTION, AND IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, TO CLEAN THE PAVED SURFACE AT THE END OF EACH DAY.
- FROM OCTOBER 1 TO APRIL 30, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 7 DAYS. ON PORTIONS OF THE SITE WHERE ACTIVE GRADING IS IN PROGRESS, THE DIRECTOR MAY EXTEND THE DEADLINE FOR SOIL STABILIZATION UPON DETERMINING THAT THE LIKELIHOOD OF EROSION IMPACTS IS LOW BASED ON THE TYPE AND AMOUNT OF SOIL EXPOSED, SITE TOPOGRAPHY, THE POTENTIAL FOR DISCHARGE TO CRITICAL AREAS AND LAKES, AND OTHER FACTORS. UPON FINDING A RISK OF EROSION, THE CONTRACTOR SHALL IMMEDIATELY APPLY EROSION CONTROL MEASURES, REGARDLESS OF ANY PREVIOUSLY ESTABLISHED DEADLINE, AND THE DIRECTOR MAY REQUIRE IMMEDIATE STABILIZATION AT ANY TIME FOR THIS PURPOSE. THE CONTRACTOR SHALL KEEP MATERIALS, EQUIPMENT, AND OTHER RESOURCES ON SITE AT ALL TIMES, IN ADEQUATE QUANTITIES TO IMMEDIATELY STABILIZE ALL SOIL.
- ALL DENUDE AREAS SHALL BE COVERED BY MULCH, SOD, PLASTIC, OR OTHER AS APPROVED BY THE DIRECTOR.
- SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED BY THE MEANS IN NOTE 17 WITHIN 24 HOURS OF FORMATION TO PREVENT SOIL LOSS.
- GRADING AND CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES IN ORDER TO MINIMIZE SOIL EXPOSURE.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL BMPs WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THEY ARE NO LONGER NECESSARY.
- BEFORE CONSTRUCTION ACCEPTANCE BY THE COUNTY, THE CONTRACTOR SHALL ESTABLISH A PERMANENT VEGETATIVE COVER TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS ON ALL AREAS OF LAND DISTURBANCE NOT OTHERWISE PERMANENTLY STABILIZED BY IMPERVIOUS SURFACES OR OTHER MEANS.
- THE CONTRACTOR SHALL MAINTAIN AND REPAIR AS NECESSARY ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs TO ASSURE THEIR CONTINUED PERFORMANCE THROUGH CONSTRUCTION ACCEPTANCE AND EXTENDING TO THE RELEASE OF ALL ASSOCIATED WARRANTY SECURITY AND MAINTENANCE SECURITY.
- THE CONTRACTOR SHALL PROTECT STORM SEWER INLETS RECEIVING STORM WATER RUNOFF DURING CONSTRUCTION SO THAT WATER WILL NOT ENTER THE INLET WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO MINIMIZE THE AMOUNT OF SEDIMENT ENTERING THE INLET.
- THE CONTRACTOR SHALL ROUTE STORM WATER RUNOFF FROM DISTURBED AREAS OF THE SITE THROUGH SEDIMENT PONDS, TRAPS OR OTHER APPROVED FILTER DEVICES PRIOR TO DISCHARGE FROM THE SITE. IF SITE CONDITIONS WARRANT, THE DIRECTOR MAY REQUIRE ADDITIONAL SEDIMENT CONTROLS, INCLUDING BUT NOT LIMITED TO, PRESERVING A VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF THE SITE.
- THE CONTRACTOR SHALL PERIODICALLY REMOVE TRAPPED SEDIMENTS FROM THE SEDIMENT PONDS AND SEDIMENT TRAPS. TRAPPED SEDIMENT MAY BE PERMANENTLY STABILIZED ON-SITE.
- BETWEEN OCTOBER 1 AND MARCH 31, NO MORE THAN 500' OF CONTINUOUS TRENCH MAY REMAIN OPEN AT ONE TIME UNLESS CHECK DAMS TO REDUCE FLOW VELOCITIES AND PREVENT EROSION ARE INSTALLED IN ACCORDANCE WITH THE SNOHOMISH COUNTY DRAINAGE MANUAL.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCHES, UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS.
- WATER FROM A DEWATERING DEVICE SHALL DISCHARGE INTO A SEDIMENT TRAP OR A SEDIMENT POND.
- THE CONTRACTOR SHALL IMPLEMENT FULLY THE T.E.S.C. PLAN AT EACH STAGE OF SITE DEVELOPMENT.



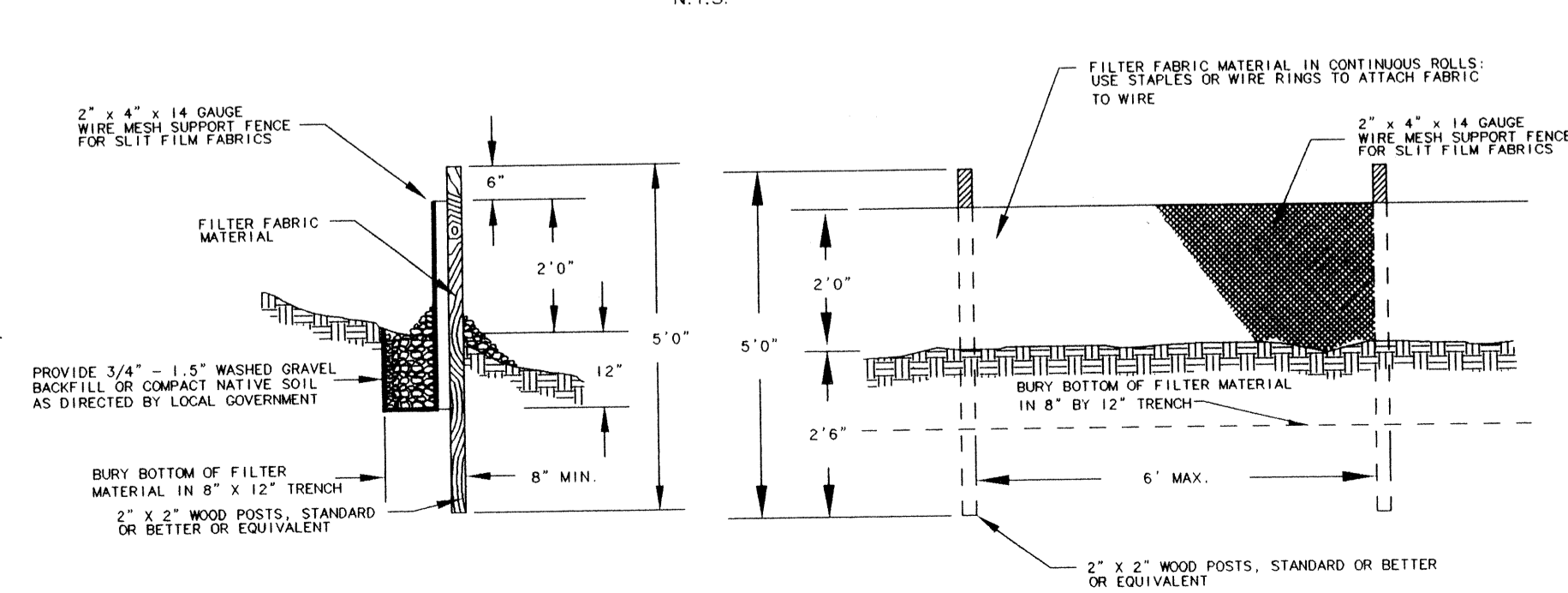
SCALE: 1"=10'

LEGEND

- PROPERTY LINE
- ADJACENT PARCELS
- CENTER LINE
- FILTER FABRIC FENCE

FILTER FABRIC FENCE DETAIL

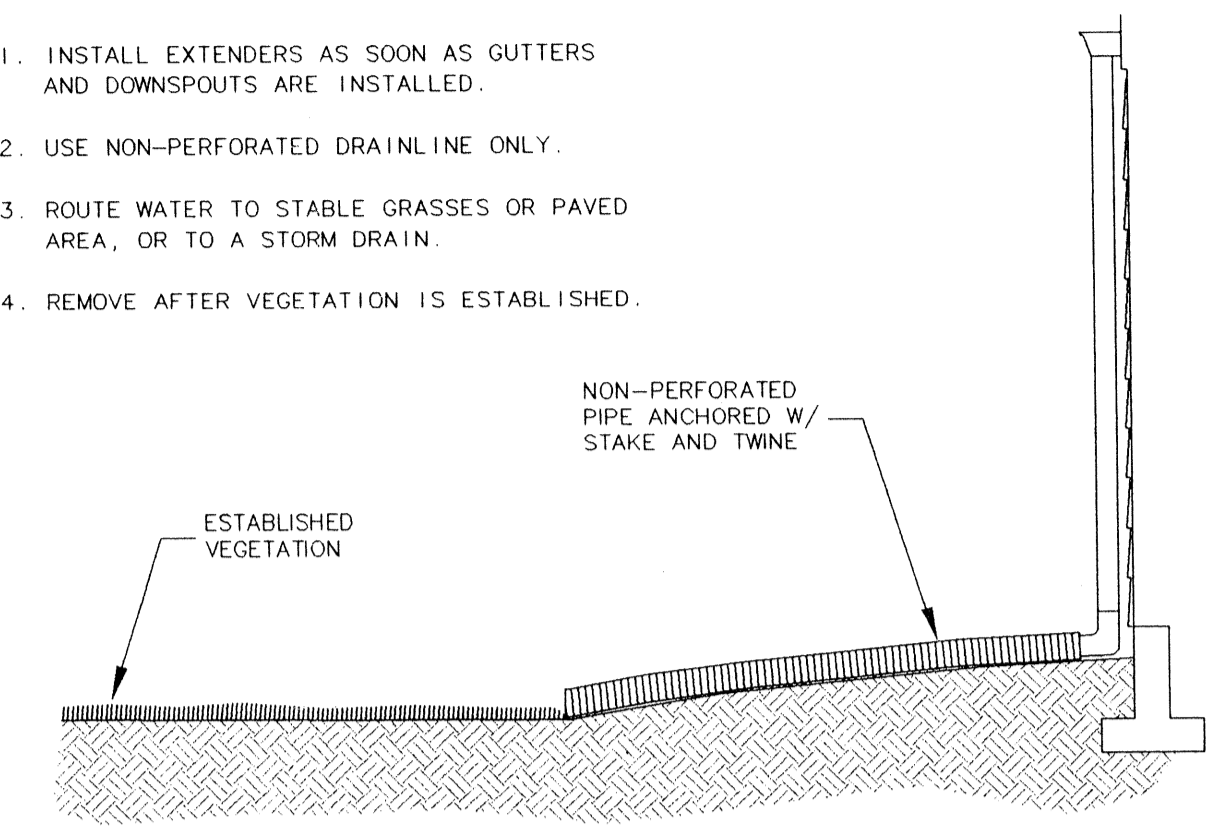
~ D.O.E. FIGURE II-5.18 ~



TEMP. DOWNSPOUT EXTENDER

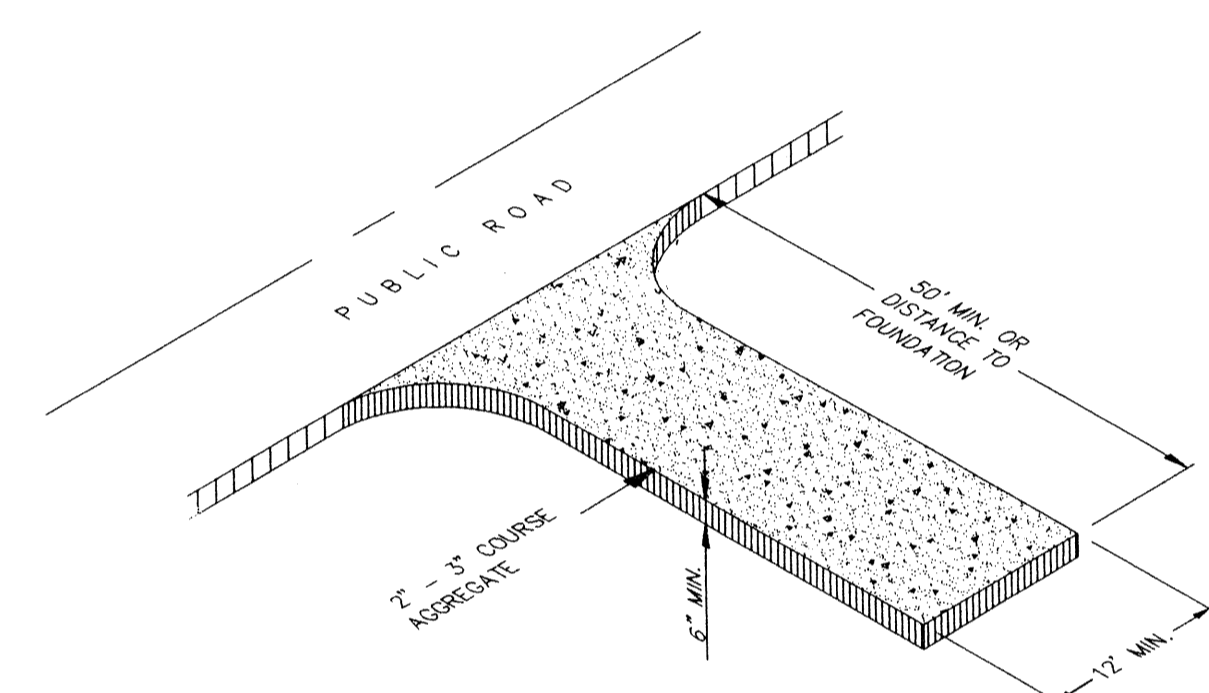
N.T.S.

- INSTALL EXTENDERS AS SOON AS GUTTERS AND DOWNSPOUTS ARE INSTALLED.
- USE NON-PERFORATED DRAINLINE ONLY.
- ROUTE WATER TO STABLE GRASSES OR PAVED AREA, OR TO A STORM DRAIN.
- REMOVE AFTER VEGETATION IS ESTABLISHED.



TEMP. CONSTRUCTION ENTRANCE

N.T.S.

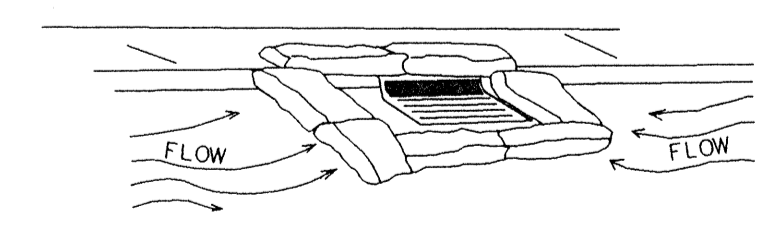


- PLACE GRAVEL ENTRANCE, EQUAL IN WIDTH OF THE INGRESS/EGRESS AREA, EXTENDING FROM THE ROAD TO THE FOUNDATION.
- ADD STONE AS NEEDED TO MAINTAIN 6 INCHES OF CLEAN DEPTH.
- TO IMPROVE STABILITY IN WET CONDITIONS, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION.
- CONSTRUCTION ENTRANCE SERVES AS A GREAT SUB-GRADE FOR POURING THE DRIVEWAY.

TEMP. CURB INLET PROTECTION

N.T.S.

- FILL GEOTEXTILE BAGS APPROXIMATELY HALF FULL WITH 2-3" STONE OR GRAVEL.
- AT A POSITION DOWNSLOPE OF THE LOT AND UPSLOPE OF THE INLET, LAY BAGS TIGHTLY IN A ROW CURVING UPSLOPE FROM THE CURB AND AWAY FROM INLET.
- OVERLAP BAGS ONTO THE CURB AND EXTEND A MINIMUM OF 3' ONTO STREET.
- FOR ADDITIONAL LAYERS, OVERLAP BAGS WITH THE ROW BENEATH, AND LEAVE A ONE BAG GAP IN THE MIDDLE OF THE TOP ROW TO SERVE AS A SPILLWAY.
- PLACE BAGS IN AN ARC AROUND CURB INLETS THAT ARE IN A SUMP POSITION.
- SET UP SAFETY/TRAFFIC BARRIERS TO KEEP VEHICLES FROM HITTING BAGS.
- INSPECT AND REPAIR AS NEEDED, AND REMOVE ANY ACCUMULATED SEDIMENTS AFTER EVERY STORM.



SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

By: *Carolyn A. Knight* 12/1/98
R/W PERMIT NO. 98110135

CASCADE SURVEYING & ENGINEERING, INC.
Planners Surveyors Engineers
P.O. BOX 326
ARLINGTON, WASHINGTON 98223
(360) 435-5551
FAX: (360) 435-4012
1-800-993-5551
360/652-7572

Professional Engineer Seal
No. 17259
Exp. 12/31/99

DESIGNED	DATE	DATE	DATE	DATE
STAFF	8/98	8/98	8/98	8/98
DRAWN	T.N.	T.N.	T.N.	T.N.
CHECKED	R.L.D.	R.L.D.	R.L.D.	R.L.D.
FIELD BOOK	SNO. 465			
REVISION	BY	DATE		

DESIGNED STAFF DATE 8/98
DRAWN T.N. DATE 8/98
CHECKED R.L.D. DATE 8/98
FIELD BOOK SNO. 465

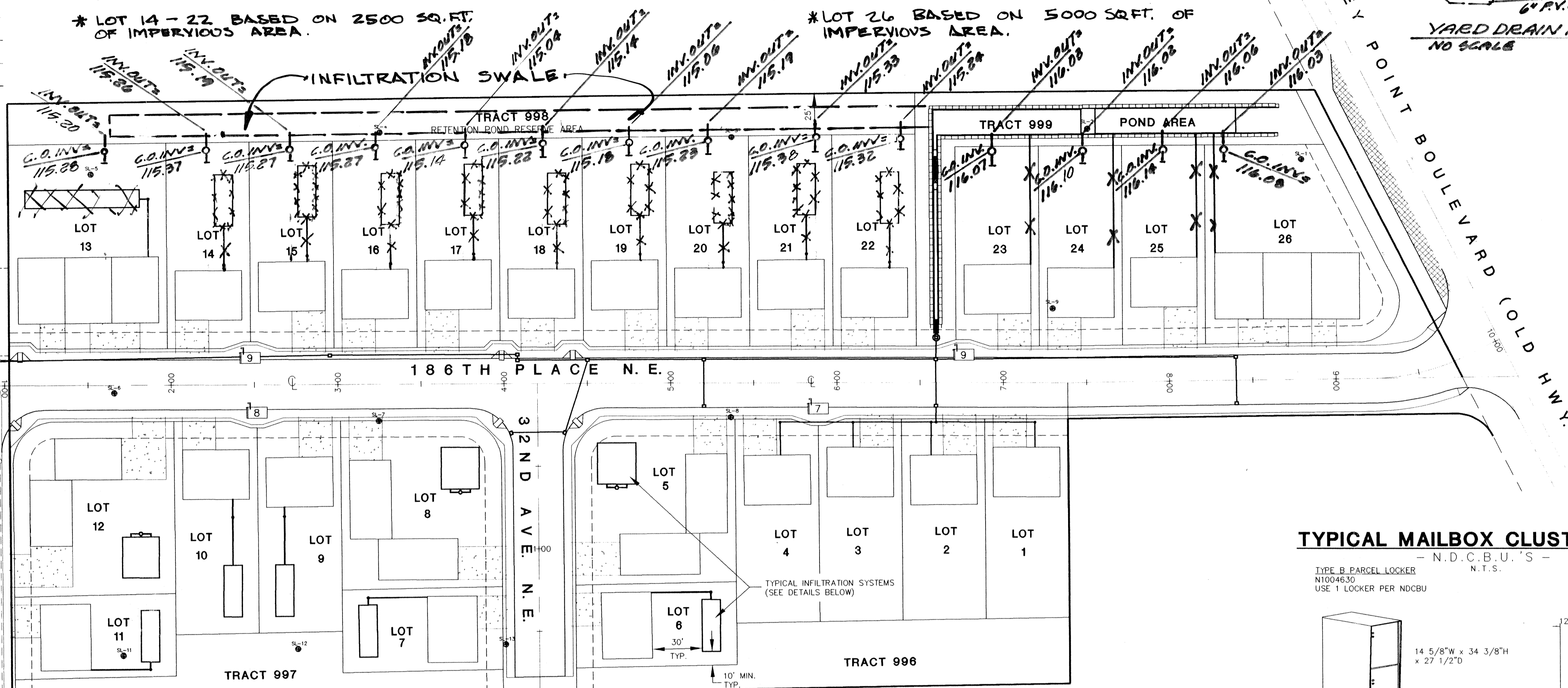
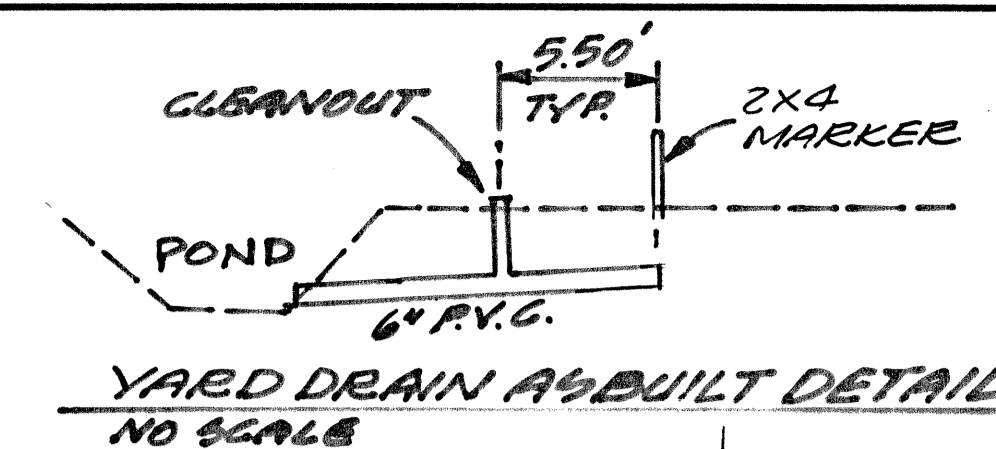
SMOKEY POINT ESTATES - P.R.D.
FILE NO. 97-101613
TYP. INDIVIDUAL LOT
T.E.S.C. PLAN

SEC. 20, T. 31 N., R. 5 E., W.M.

- LEGEND**
- PROPERTY LINE
 - LOT LINE
 - ADJACENT PARCELS
 - CENTER LINE
 - EASEMENT LINE
 - EXIST. EDGE OF ROAD
 - FUTURE EDGE OF ROAD
 - SOIL LOG
 - MAILBOX CLUSTER
 - PROPOSED DRIVEWAY AND HOUSE

NOTE:
 * LOT 13 BASED ON 5000 SQ.FT OF IMPERVIOUS AREA.
 * LOT 14 - 22 BASED ON 2500 SQ.FT. OF IMPERVIOUS AREA.

NOTE:
 * LOTS 23 - 25 BASED ON 2,000 SQ.FT. OF IMPERVIOUS AREA.
 * LOT 26 BASED ON 5000 SQ.FT. OF IMPERVIOUS AREA.



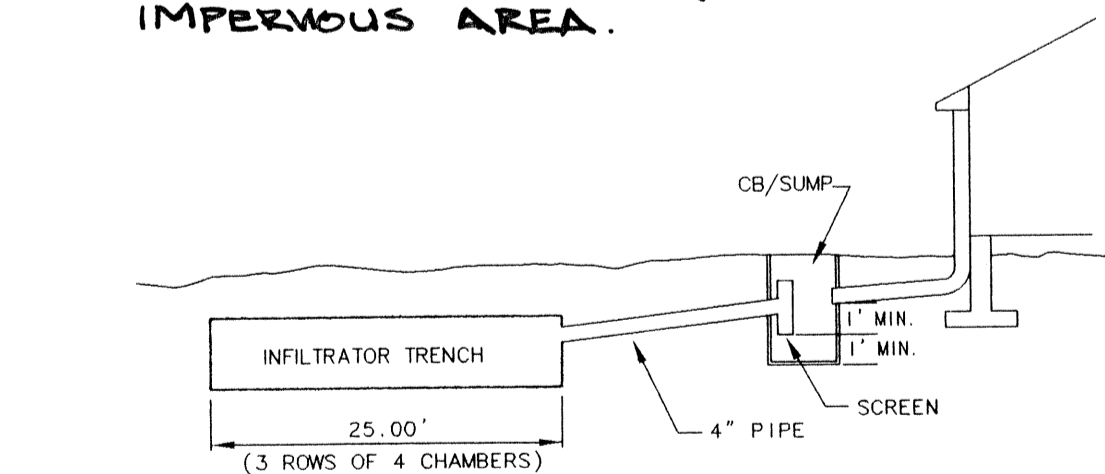
1" = 40'

NOTE:
 LOTS 13-22 TO BE TIGHT LINED TO THE INFILTRATION SWALE.

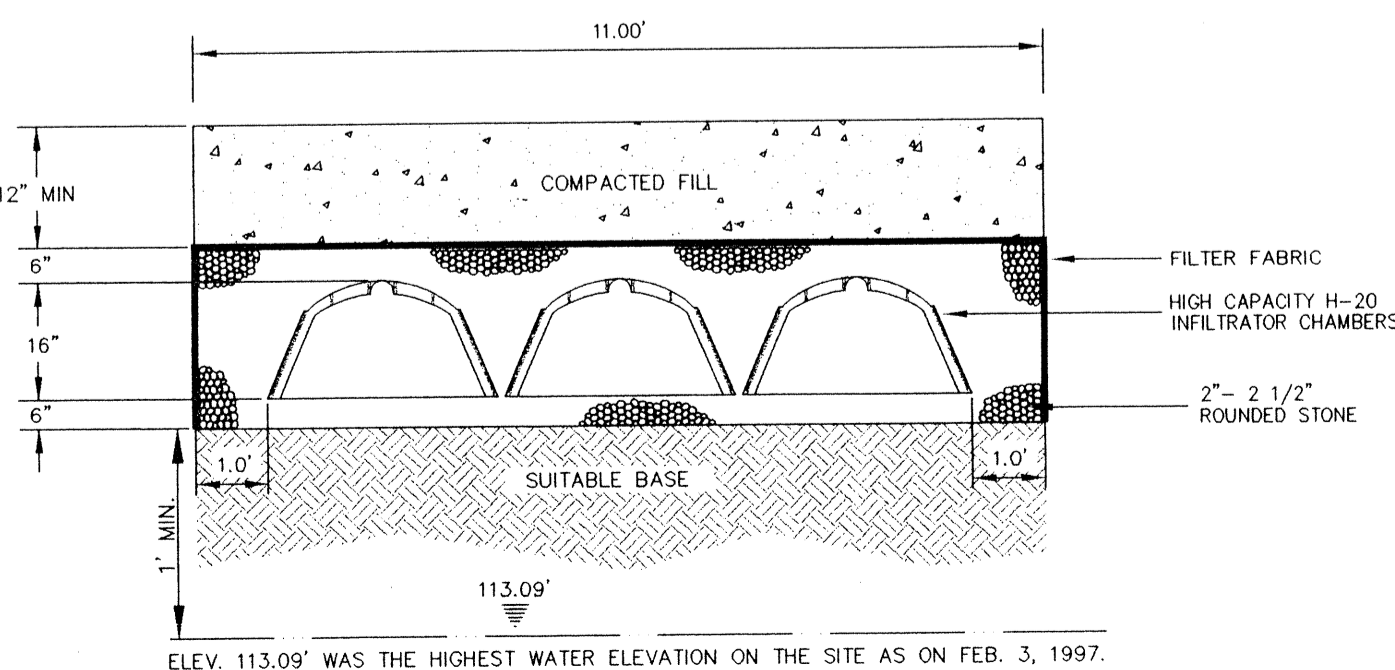
* ANY CONFIGURATION OF INFILTRATION TRENCH WHICH HAS THE SAME BOTTOM AREA AND SAME NUMBER OF INFILTRATOR CHAMBERS AS SHOWN BELOW MAY BE USED *

TYP. SINGLE FAMILY LOT SYSTEM
 LOTS 1-4, 6, 7, 9-11, 14-22

NOTE:
 BASED ON 2000 SQ.FT. OF IMPERVIOUS AREA.

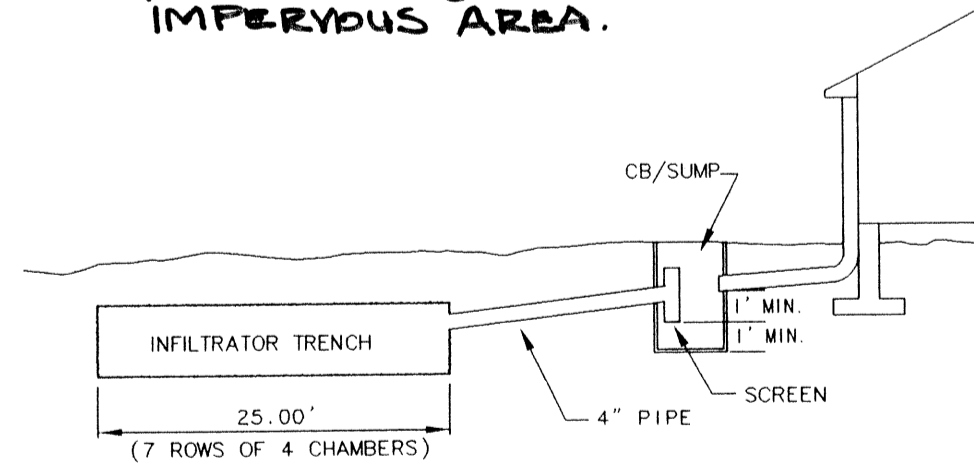


INFILTRATOR TRENCH SHALL BE LOCATED NO CLOSER THAN 30' FROM HOUSE FOOTINGS OR 10' FROM PROPERTY LINES.

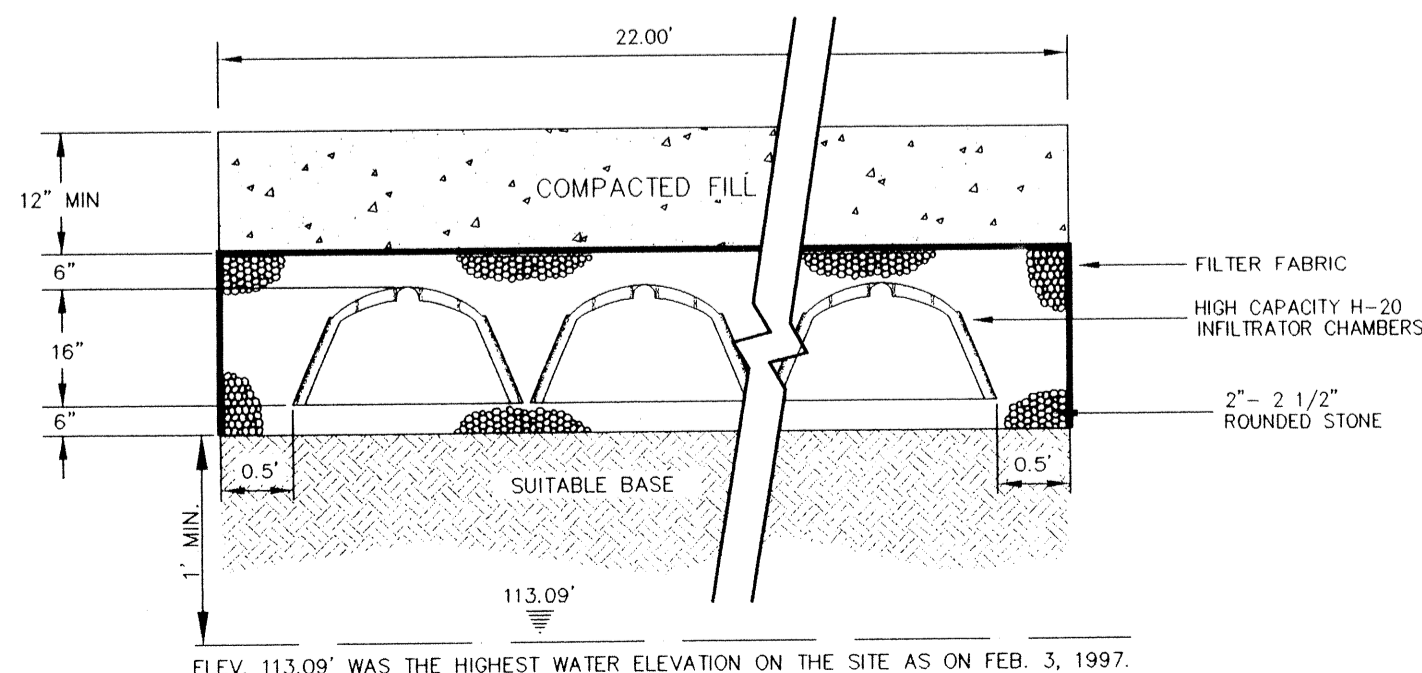


TYP. DUPLEX LOT SYSTEM
 LOTS 5, 8, 12

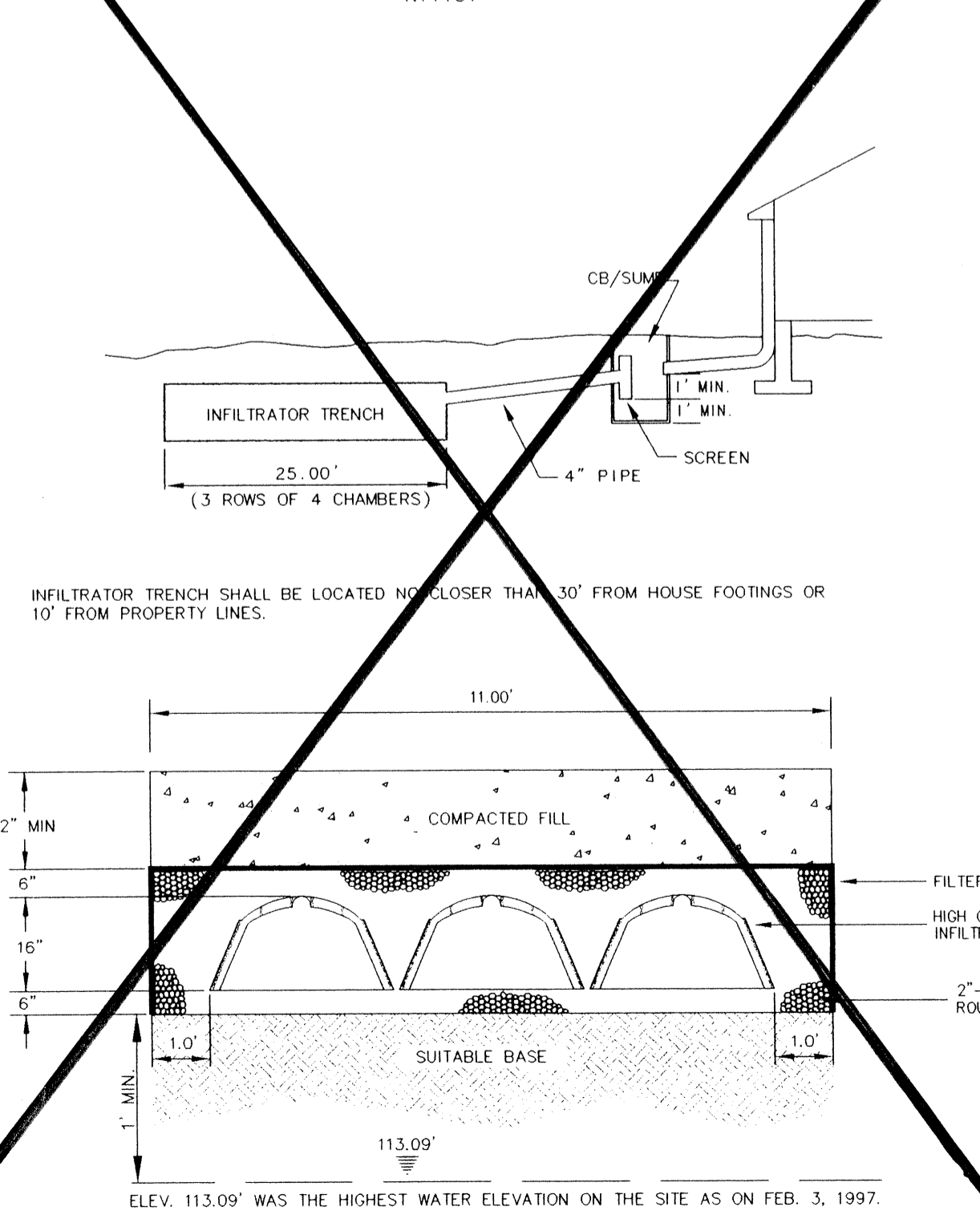
NOTE:
 BASED ON 3800 SQ.FT. OF IMPERVIOUS AREA.



INFILTRATOR TRENCH SHALL BE LOCATED NO CLOSER THAN 30' FROM HOUSE FOOTINGS OR 10' FROM PROPERTY LINES.

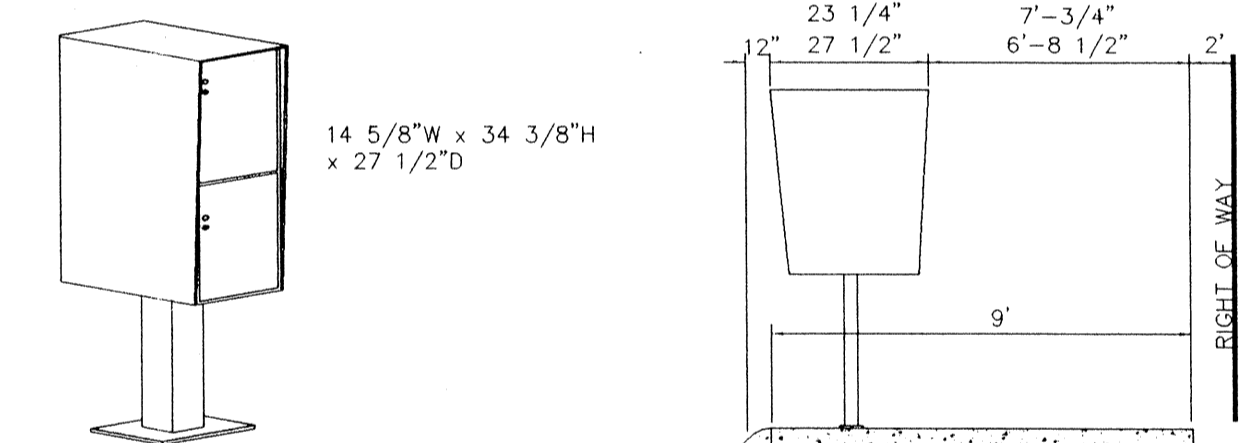


TRIPLEX LOT SYSTEM (LOT 13 ONLY)

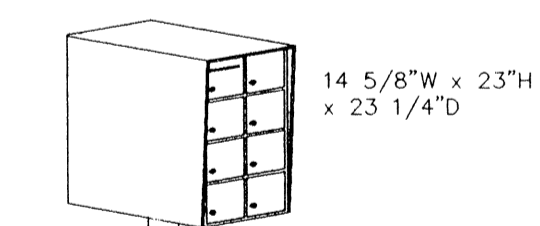


TYPICAL MAILBOX CLUSTER DETAIL

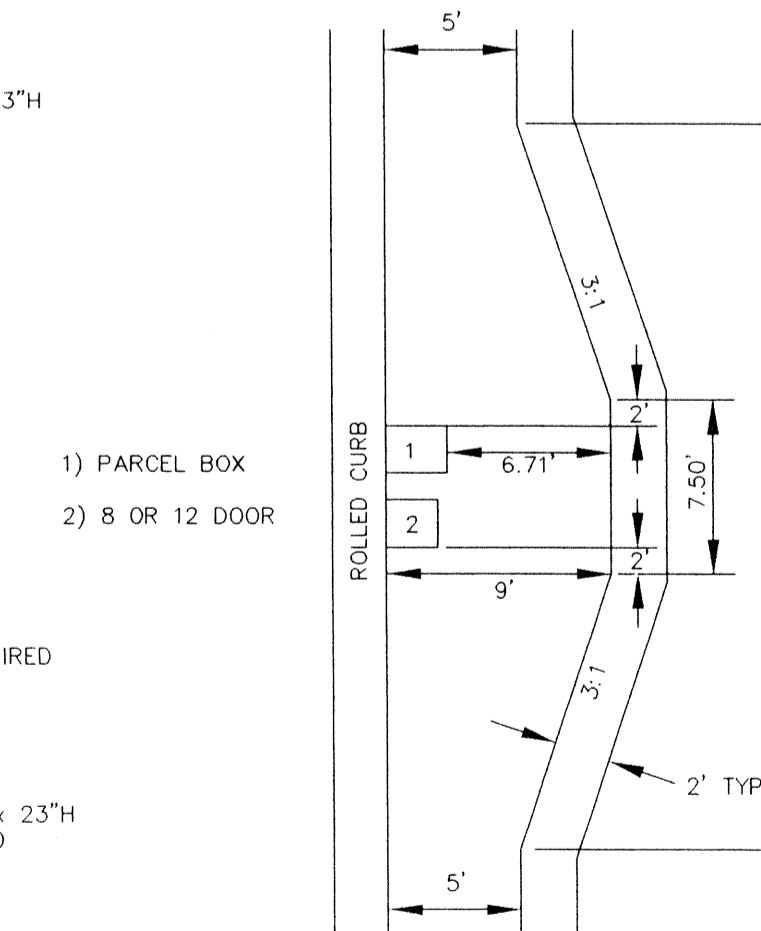
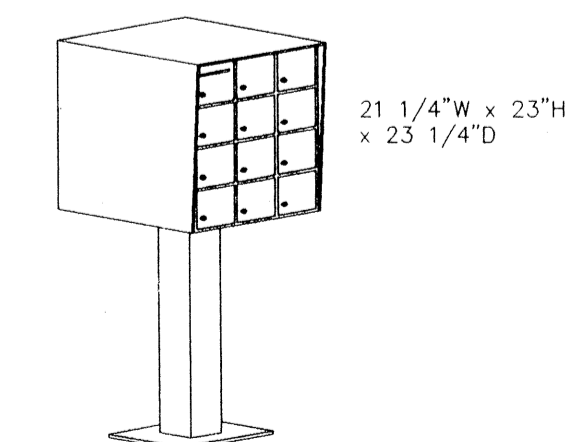
TYPE B PARCEL LOCKER
 N1004630
 USE 1 LOCKER PER NDCBU



8 DOOR
 N10046271-8 DOOR
 USE WHEN 7 BOXES ARE REQUIRED



12 DOOR
 N100462811-12 DOOR
 USE WHEN 8 OR 9 BOXES ARE REQUIRED



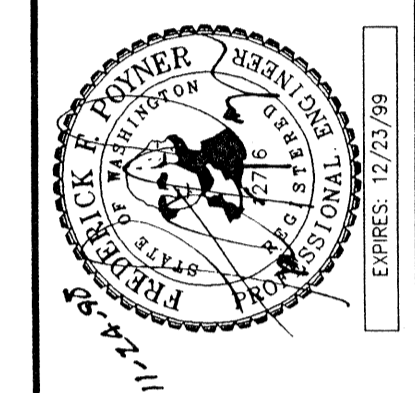
POST OFFICE APPROVAL:

SNOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
 APPROVED FOR CONSTRUCTION

By: *[Signature]* 12/1/98
 R/W PERMIT NO. 9810138

ASBUILT
 5/18/99
 REVISED 6/12/99

CASCADE & ENGINEERING, INC.
 Planners Surveyors
 Engineers
 P.O. BOX 226
 ARLINGTON, WASHINGTON 98223
 (360)455-3572
 (360)452-7572
 (360)452-5451



DATE	BY
11/98	T.N.
10/98	T.N.

DESIGNED STATE DATE 8/98	DRAWN T.N.	DATE 8/98
CHECKED R.L.D.	DATE 9/98	FIELD BOOK SNO. 465

SMOKEY POINT ESTATES - P.R.D.
 FILE NO. 97-101613
LOT INFO.

ADDITIONAL GRADING QUANTITIES
 EXCAVATION 315 CUBIC YARDS
 FILL 315 CUBIC YARDS

SEC. 20, T. 31 N., R. 5 E., W.M.

NOTE: CB's 8 AND 9
 TO HAVE THE FRAME AND
 SOLID LIDS REMOVED.
 CB's TO BE COVERED
 WITH STEEL PLATES
 AND THE SIDEWALKS
 POURED OVER THEM.

CB #10 GROUT
 THE OVERFLOW
 PIPE CLOSED.

470 FT. OF 3 FT.
 WIDE OVERFLOW
 RETENTION POND

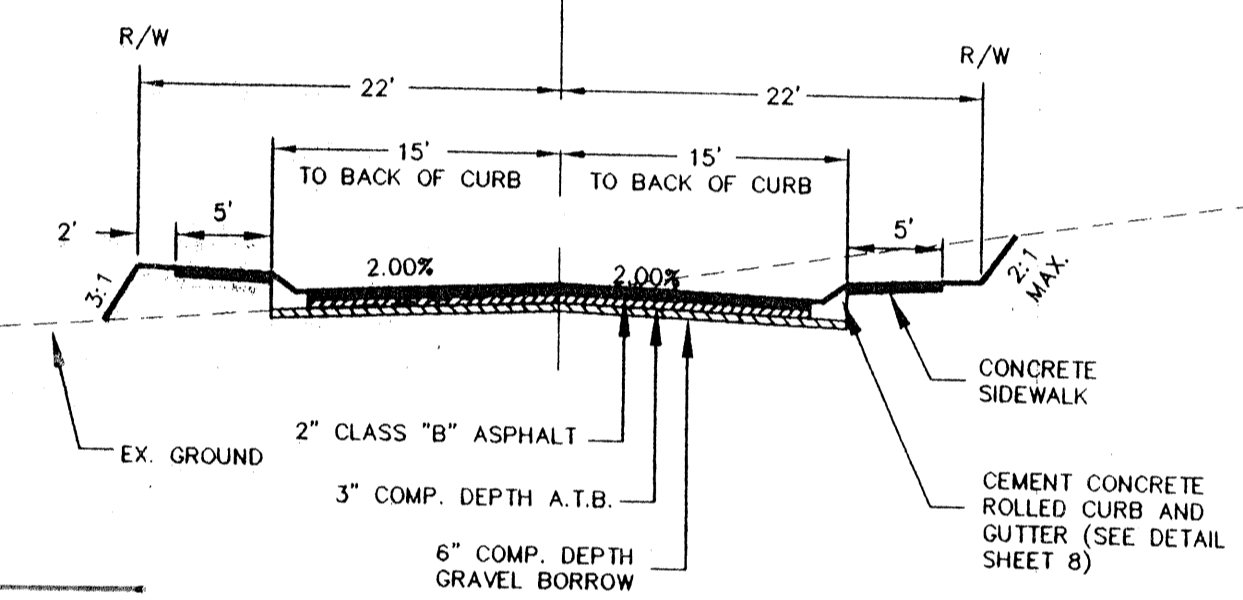
DENOTES SPOT ELEV. 115.0

LEGEND

- PROPERTY LINE
- LOT LINE
- ADJACENT PARCELS
- CENTER LINE
- EASEMENT LINE
- EXIST. EDGE OF ROAD
- FUTURE EDGE OF ROAD
- EXISTING CONTOURS
- FINISHED CONTOURS
- PROPOSED 5' SIDEWALK
- SOIL LOG
- CON. MON. IN CASE
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING STORM LINE (W/DIRECTION OF FLOW)
- PROPOSED UTILITIES:
 STORM LINE
 STORM C.B.

ACCESS STREET URBAN

DESIGN SPEED 25 M.P.H. - N.T.S.



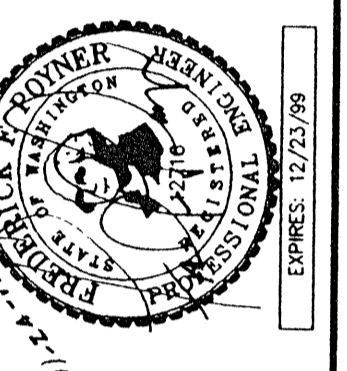
ASBUILT LEGEND
 #427 116.14 = PER CASCADE SURVEY DATA.

AIR PRESSURE NOTE:
 ALL PIPES EXCEPT FOR THE 2 OVERFLOW PIPES
 REQUIRE A LOW PRESSURE AIR TEST PER WSDOT/
 APWA SPECIFICATIONS 7-04.3(1)

NOTE:
 ROADWAYS SHALL CONSIST OF 2 - 10'
 DRIVING LANES AND 1 - 8' PARKING STRIP.

CASCADE SURVEYING & ENGINEERING, INC.
 Surveyors
 Engineers
 Planners

1800 1st St. SE
 Arlington, WA 98223
 (360) 335-5551
 FAX (360) 415-4012
 T-800-393-3551



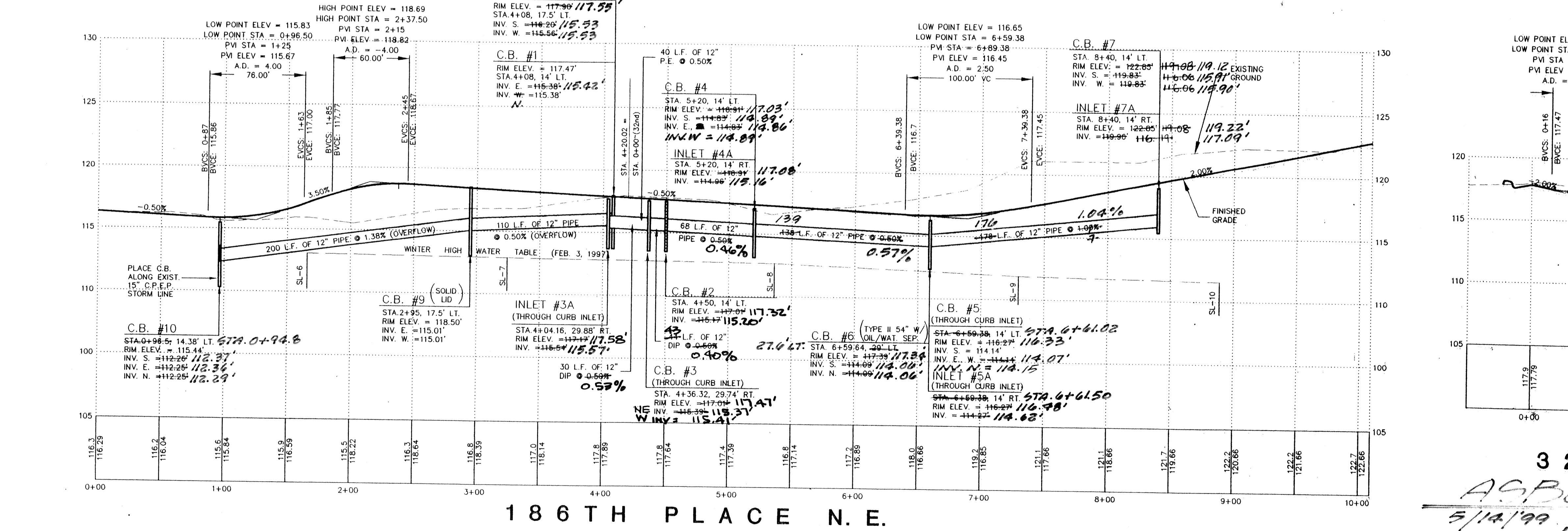
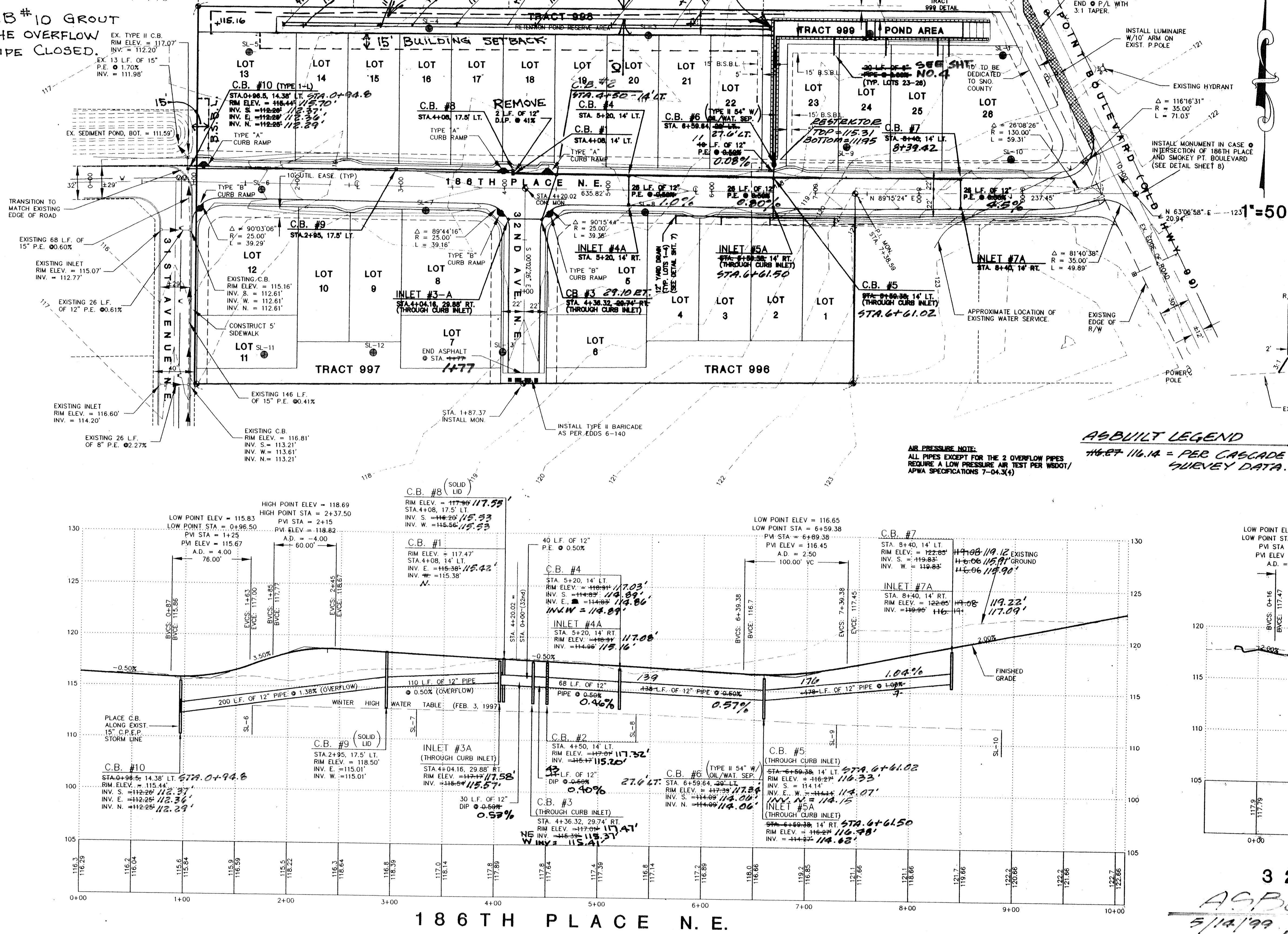
DESIGNED	DATE	BY
11/98	T.N.	
10/98	T.N.	

ADDED DET. POND RES. AREA AS PER COUNTY MARKUPS
 R.E.V.I.S.I.O.N.

DESIGNED	DATE	BY
9/98		
8/98		
9/98		

FIELD BOOK SNO. 465

SMOKEY POINT ESTATES - P.R.D.
 FILE NO. 97-101613
ROAD & STORM



32ND AVE. N.E.
ASBUILT
 5/14/99
 REVISED 6/14/99
 APPROVED FOR CONSTRUCTION
 R/W PERMIT NO. 98110738

SCALE HORIZONTAL: 1"= 50' VERTICAL 1"=5'

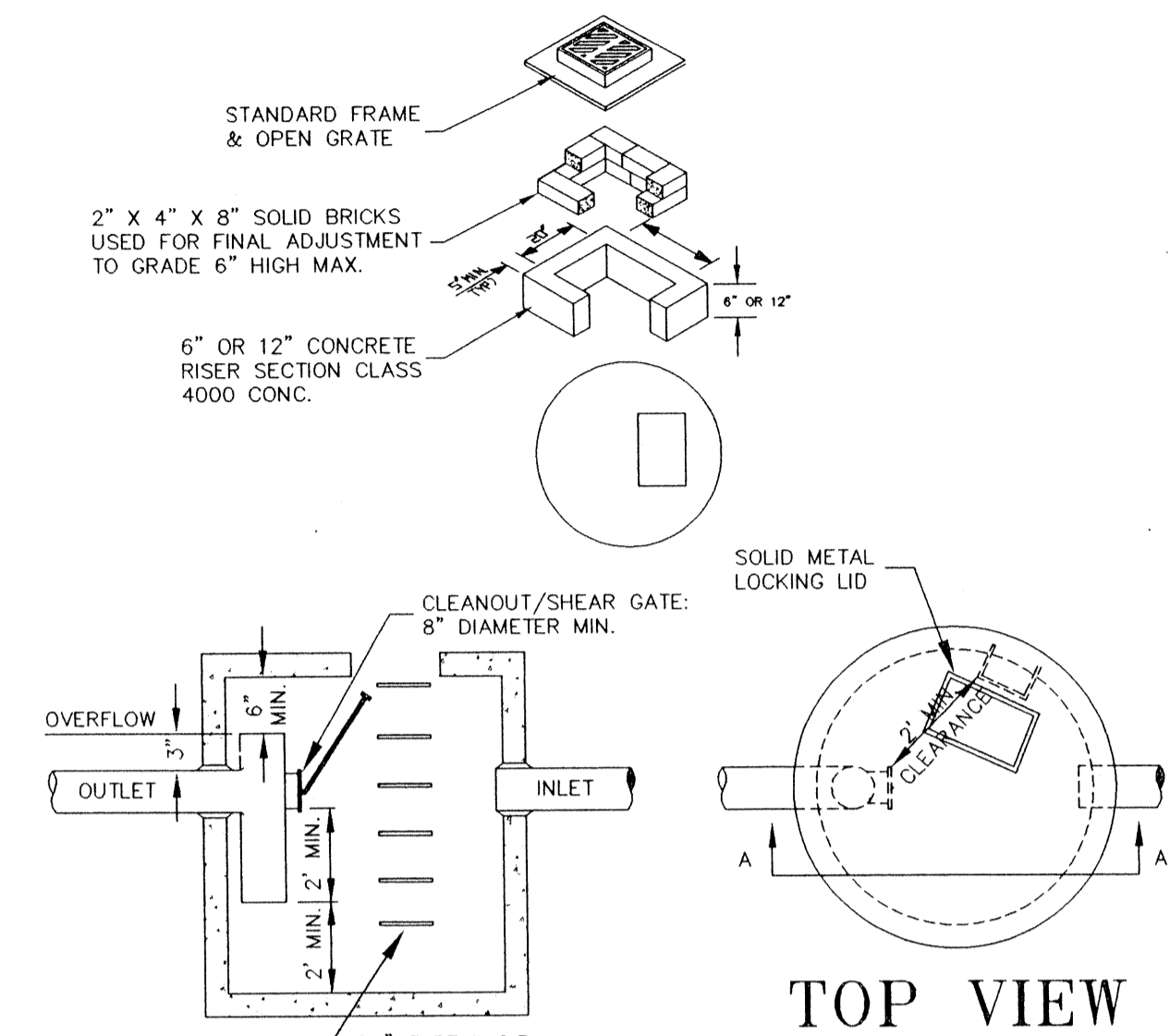
REVISED 4-20-99 PER CO. COMMENTS
 3-30-99
 ADDED OVERFLOW POND

SEC. 20, T. 31 N., R. 5 E., W.M.

TYPICAL OIL WATER SEPARATOR

N.T.S.

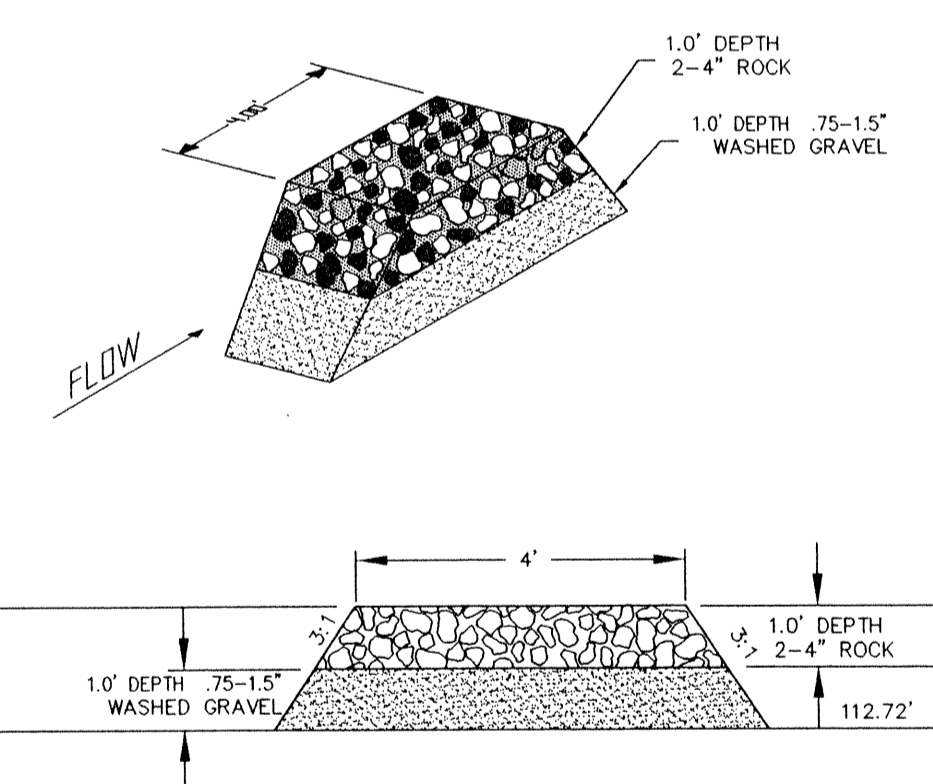
- NOTES:**
- Except as shown or noted, units shall be constructed in accordance with the requirements for Catch Basin Type 2, 54" minimum diameter.
 - For details showing grade, riser, ladders, handholds and top slabs, see Std Dwg 9-074, "Catch Basin Details".
 - The restrictor/separator and pipe supports shall be of the same material and shall be fabricated from .060" aluminum or .064" aluminized steel or .064" galvanized steel pipe in accordance with ASSHTO M 36, M196, M197 AND M274. Galvanized Steel shall have Treatment 1.
 - Outlet shall be connected to culvert or sewer pipe with a standard coupling band for corrugated metal pipe or grouted into the bell of concrete pipe.
 - The vertical riser stem of the Restrictor/Separator shall be the same diameter as the horizontal outlet pipe with a 8" minimum size.
 - Frame and ladder or steps to be offset so that (1) Cleanout gate is visible from top. (2) Climb-down space is clear of riser and cleanout gate. (3) Frame is clear of curb (if any exists).
 - Cleanout gate/Shear gate:
32 or cast iron ASTM A48 Class 30B as required.
Lift handle either solid or tubing with adjustable hook as required.
Neoprene rubber gaskets required between flanges.
 - Alternate Cleanout gates/Shear gates to the design shown on Std Dwg 9-190 are acceptable provided they meet the material specifications above and have a six bolt, 10-3/8" bolt circle for bolting to the flange connection. 5/8" diameter stainless steel expansion bolts shall be used.



SECTION AA

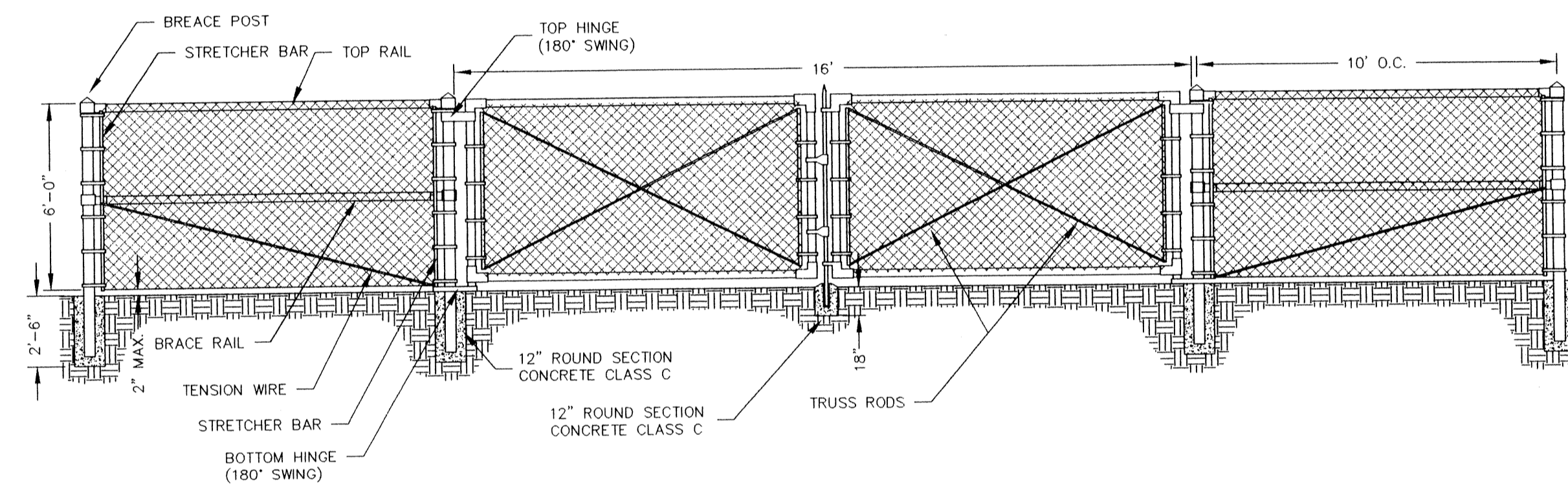
FILTER WINDOW DETAIL

N.T.S.



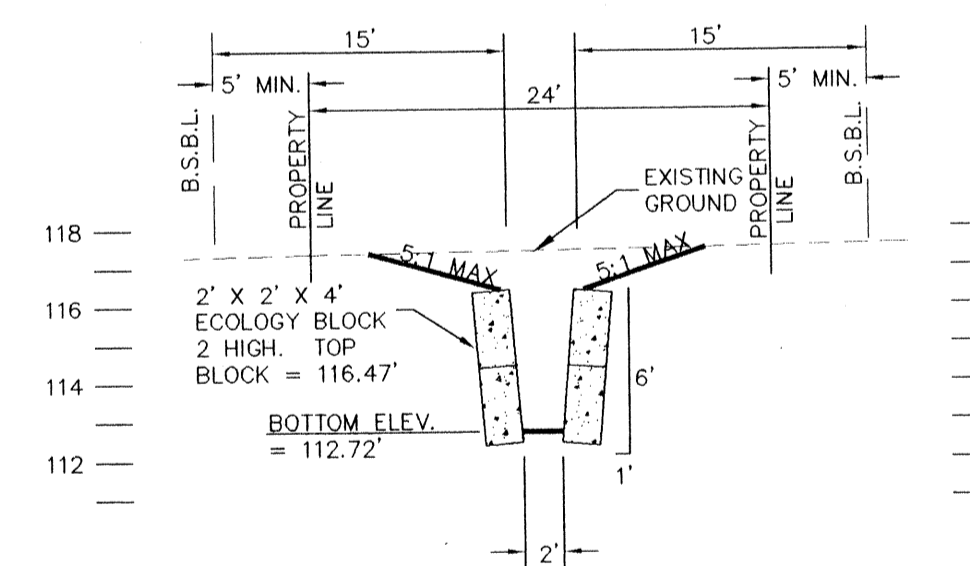
CHAIN LINK FENCE AND GATEDetail

D.O.T. STANDARD PLANS L-2 & L-3
N.T.S.



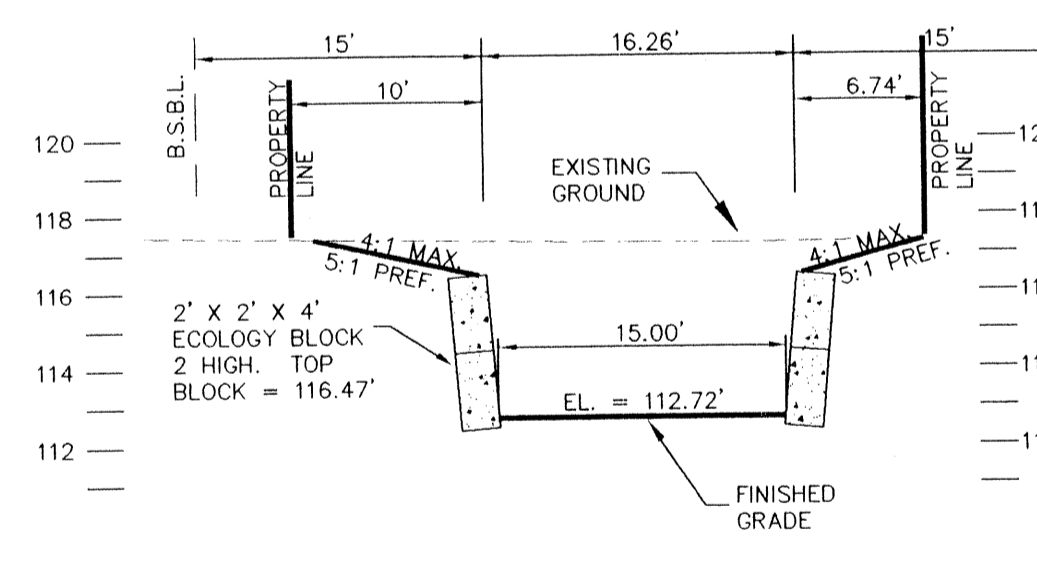
SECTION A-A

HORIZONTAL 1" = 10' VERTICAL 1" = 5'



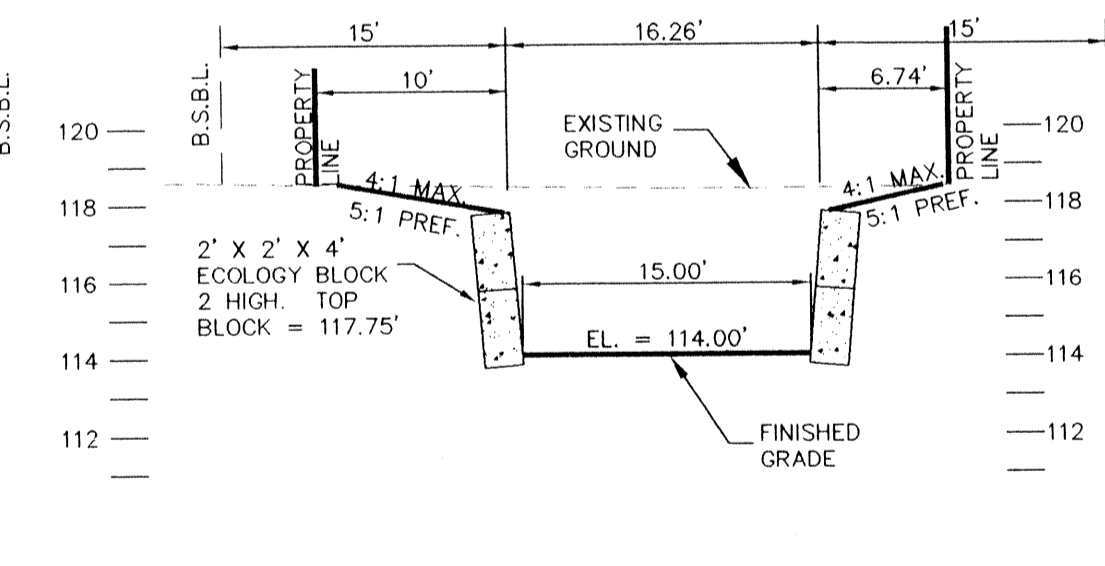
SECTION B-B

HORIZONTAL 1" = 10' VERTICAL 1" = 5'



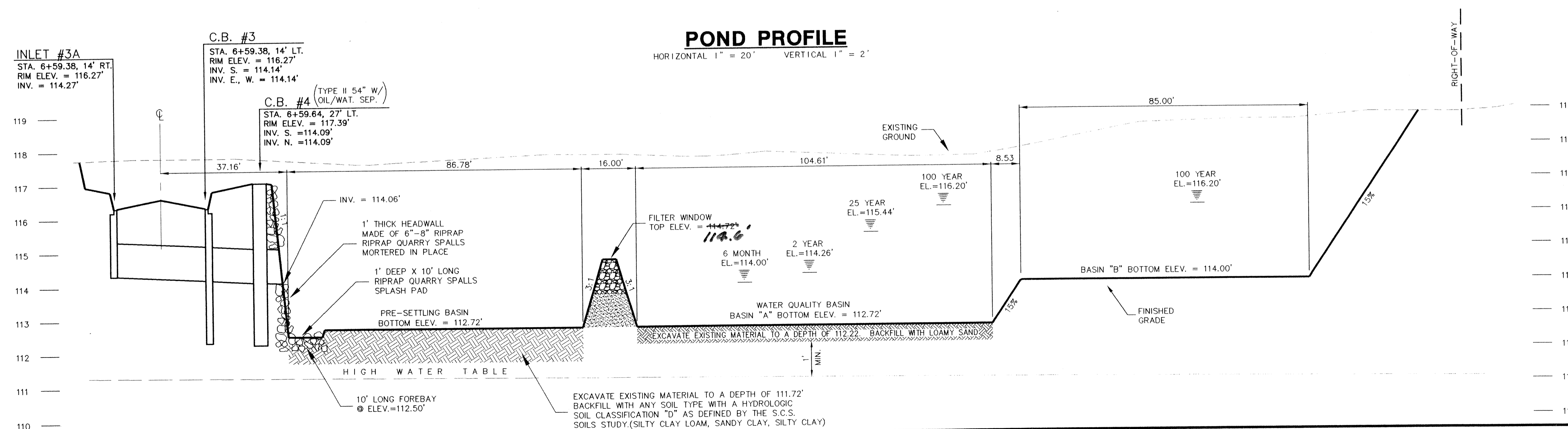
SECTION C-C

HORIZONTAL 1" = 10' VERTICAL 1" = 5'



POND PROFILE

HORIZONTAL 1" = 20' VERTICAL 1" = 2'



ASBUILT LEGEND

= PER CASCADE SURVEY DATA.
TOP 116.80

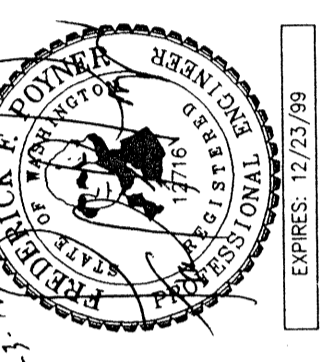
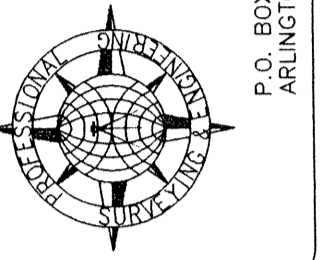
ASBUILT
5/14/99
REVISED 6/14/99

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

By *Cauley, R. Sleight* 12/1/98

R/W PERMIT NO. 98110738

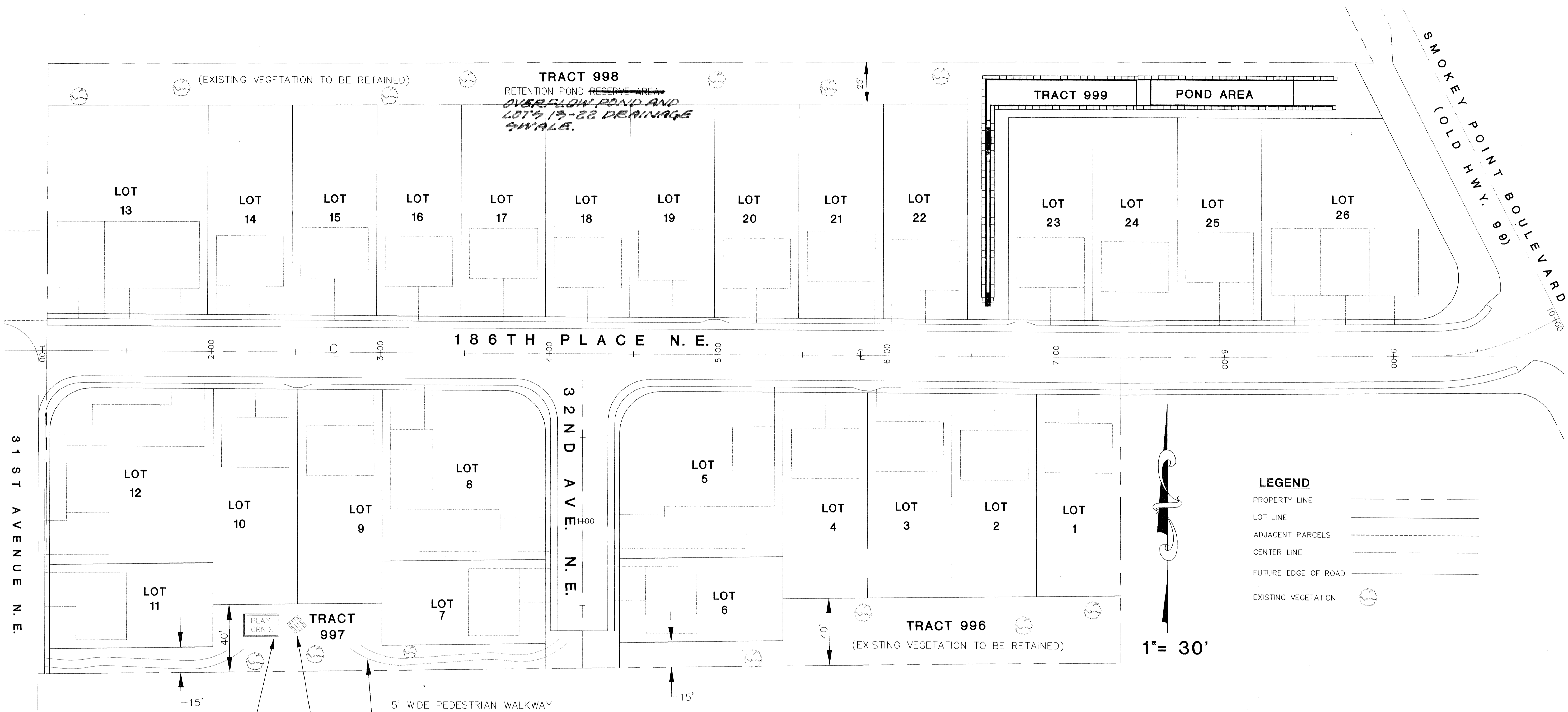
CASCADE & SURVEYING, INC.
Engineers Surveyors Planners
P.O. BOX 326
ARLINGTON, WASHINGTON 98223
(360)435-5551
(360)952-1512
1-800-931-5551



DESIGNED	DATE	DRAWN	T.N.	DATE	CHECKED	R.L.D.	DATE	FIELD BOOK	SNO.	NO.
	8/98			8/98			9/98		465	

SMOKEY POINT ESTATES - P.R.D.
FILE NO. 97-101613
DETENTION POND

SEC. 20, T. 31 N., R. 5 E., W.M.



LEGEND

PROPERTY LINE ————

LOT LINE ————

ADJACENT PARCELS - - - - -

CENTER LINE ————

FUTURE EDGE OF ROAD ————

EXISTING VEGETATION (tree symbol)

12'X20' PLAYGROUND EQUIPMENT PAD, SURFACE WITH 3" OF PEA GRAVEL. CONSTRUCT BORDER AROUND PAD WITH TREATED 4" X 4" S.

*4 SEAT SWING SET FROM UPBEAT INCORP PRODUCT NO. UPS-397-12-2Y, 4 SEATS, 12' HEIGHT, AND 565 LBS.

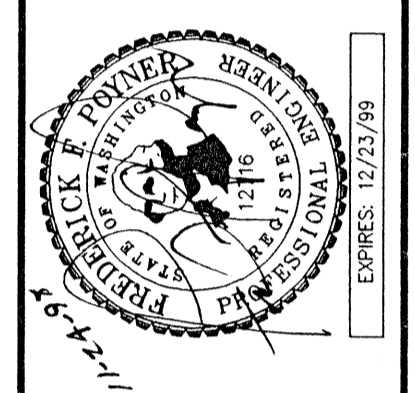
*DOUBLE SUPPORTED INGROUND TABLE UPBEAT INCORP. SPRING 1997 CATALOG PRODUCT NO. FSC-F1104, 8' LENGTH 295 LBS.

5' WIDE PEDESTRIAN WALKWAY CONTRACTOR TO MEANDER WALKWAY TO AVOID REMOVING TREES WHERE POSSIBLE

THE OPEN SPACE TRACTS IN THIS SUBDIVISION SHALL BE FOR PASSIVE RECREATION AND PEDESTRIAN PATHWAYS. LANDSCAPING SHALL CONSIST OF PRESERVATION AND MAINTENANCE OF NATIVE VEGETATION.

CASCADE & SURVEYING, INC.
ENGINEERS, INC.
 Planners
 Surveyors
 Engineers

P.O. BOX 136
 ARLINGTON, WASHINGTON 98223
 (360) 452-5551
 FAX (360) 452-5552
 T-800-537-5572



DESIGNED	DATE	T.N.	T.N.	BY
DRAWN	DATE	11/98	10/98	
CHECKED	R.L.D. DATE			
FIELD BOOK	SNO. 465			

ADDED DET. POND RES. AREA AS PER COUNTY MARKUPS
 R.E.V.I.S.I.O.N.
 EXPRESS 12/23/98

DESIGNED DATE 8/98
 DRAWN T.N. DATE 8/98
 CHECKED R.L.D. DATE 9/98
 FIELD BOOK SNO. 465

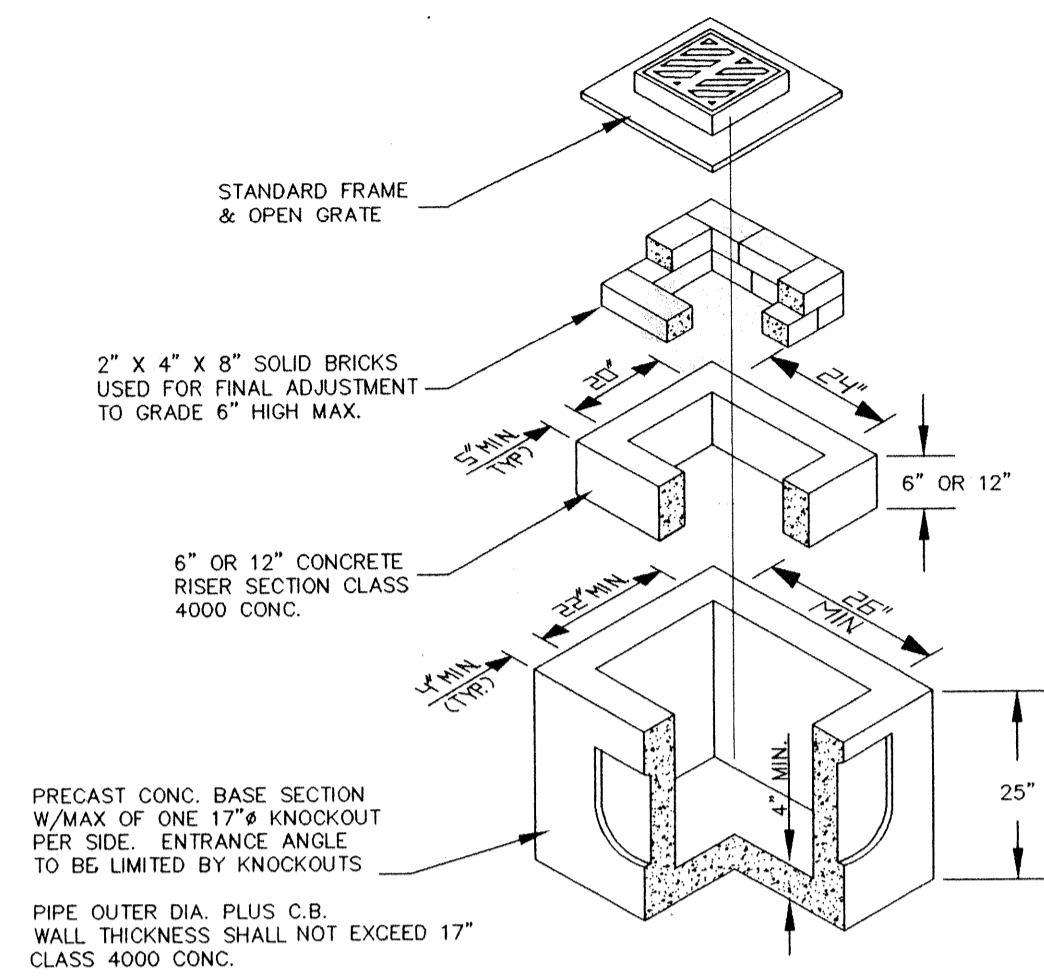
SMOKEY POINT ESTATES - P.R.D.
 FILE NO. 97-101613
RECREATION PLAN

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
 APPROVED FOR CONSTRUCTION
 By: *[Signature]* 12/1/98
 R/W PERMIT NO. 48110738

SEC. 20, T. 31 N., R. 5 E., W.M.

TYPICAL C.B. INLET

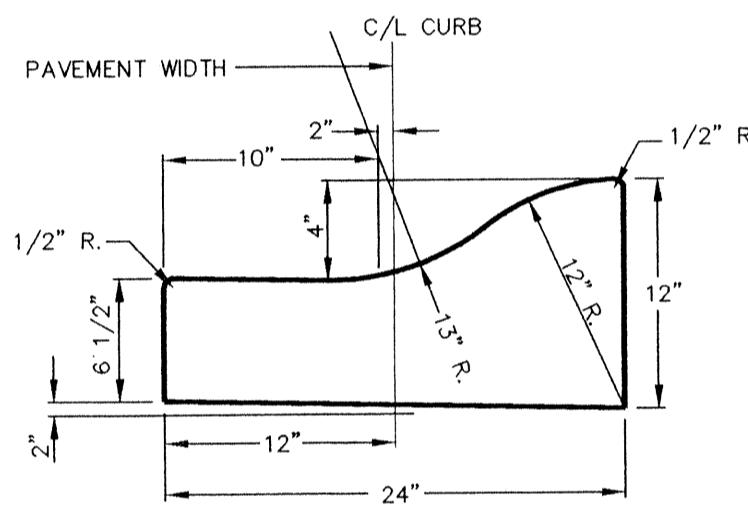
N.T.S.



CATCH BASIN TO CONFORM TO WSDOT STANDARD PLAN B-11

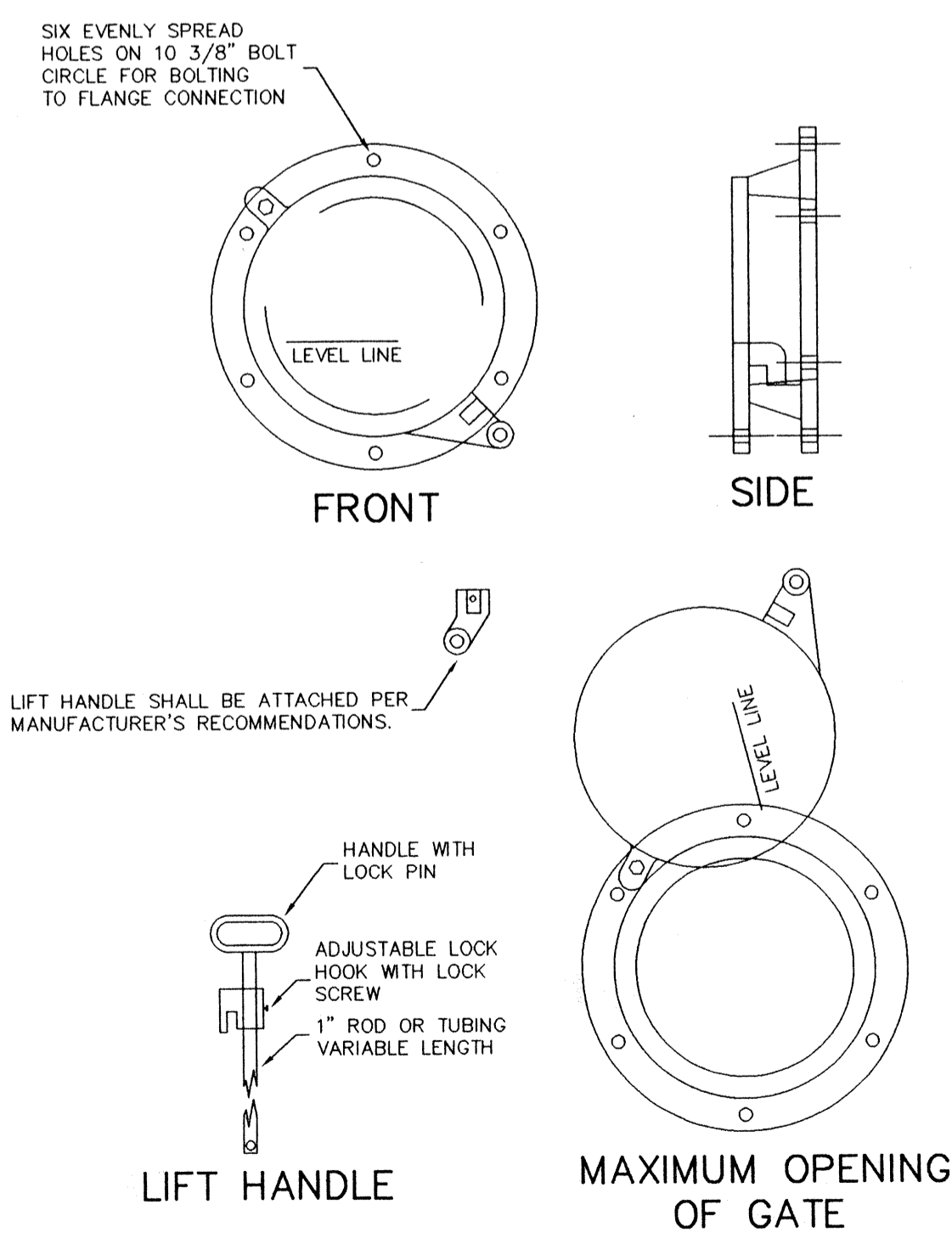
TYPICAL ROLLED CURB

N.T.S.



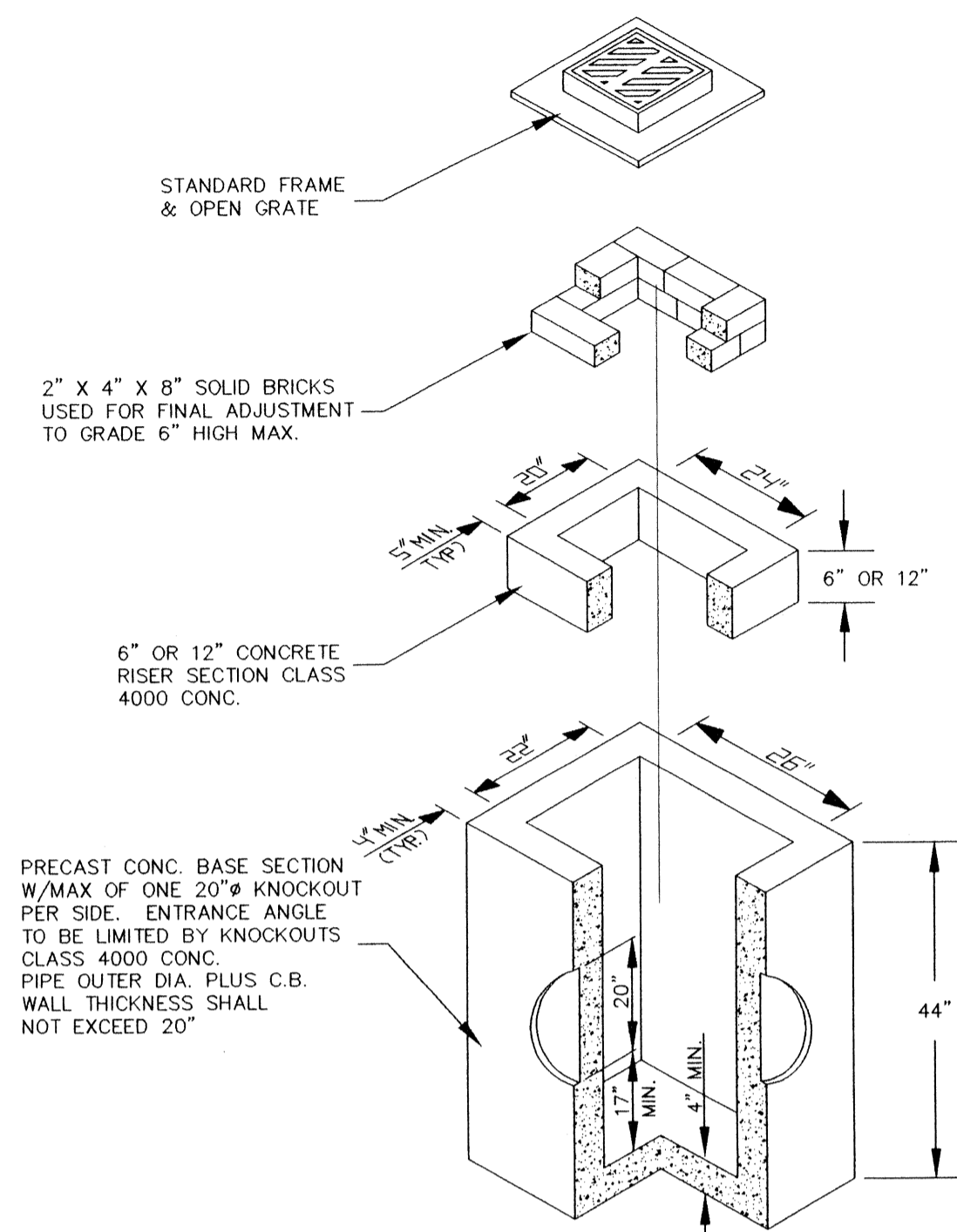
TYPICAL SHEAR GATE

N.T.S.



TYPICAL TYPE I C.B.

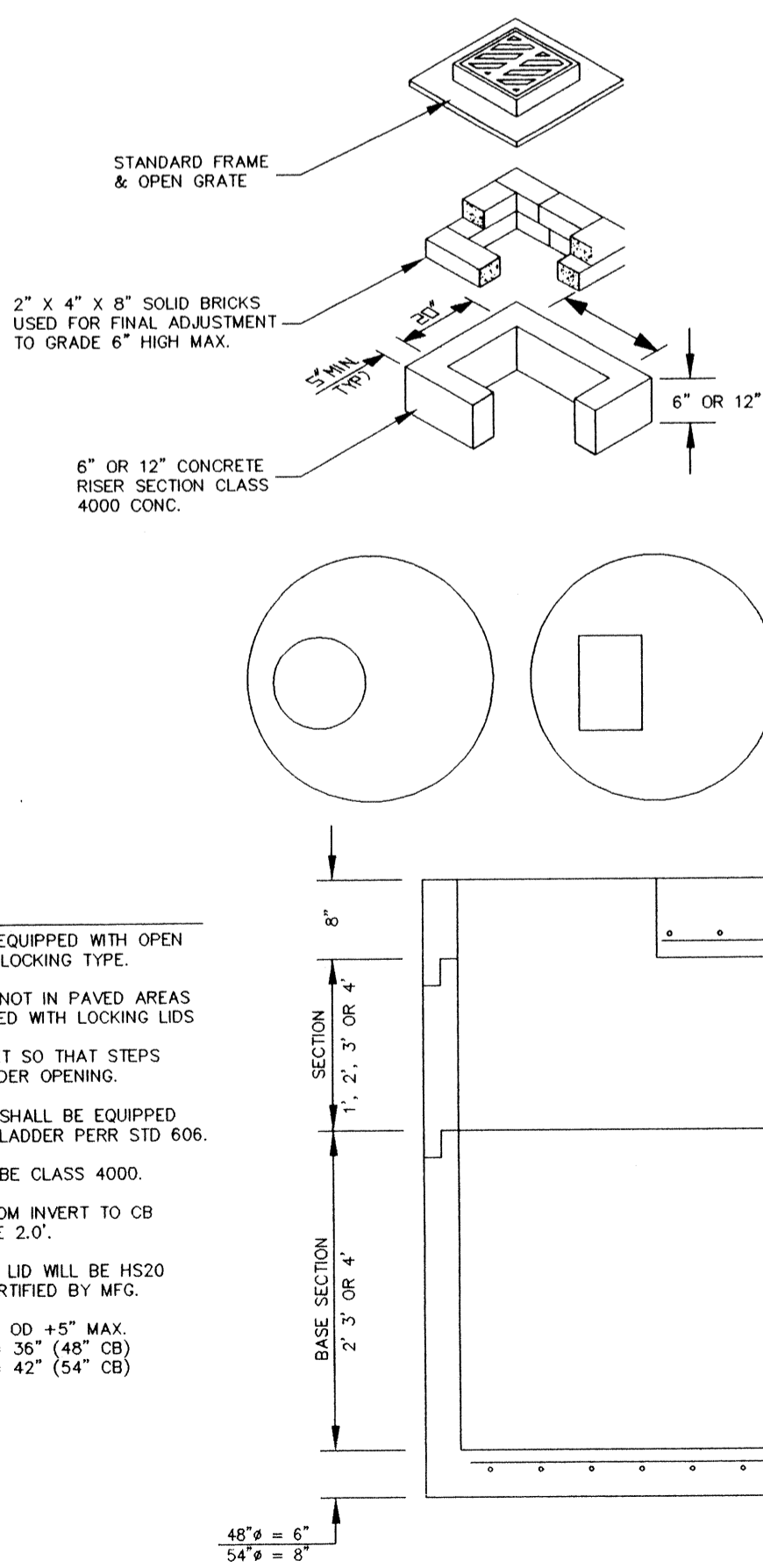
N.T.S.



CATCH BASIN TO CONFORM TO WSDOT STANDARD PLAN B-11

TYPICAL TYPE 2 C.B.

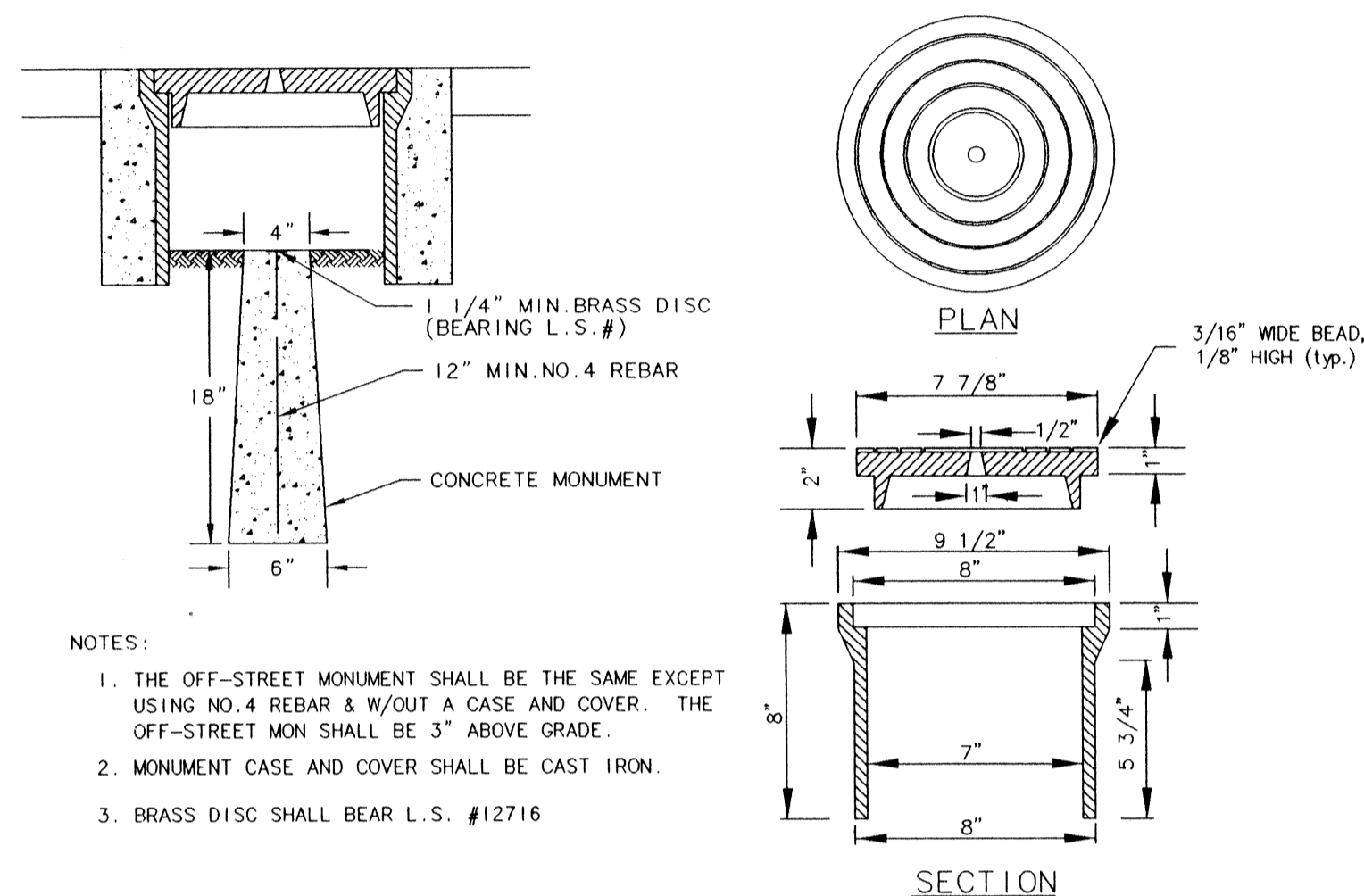
N.T.S.



CATCH BASIN TO CONFORM TO WSDOT STANDARD PLAN B-11

TYPICAL CONCRETE MONUMENT

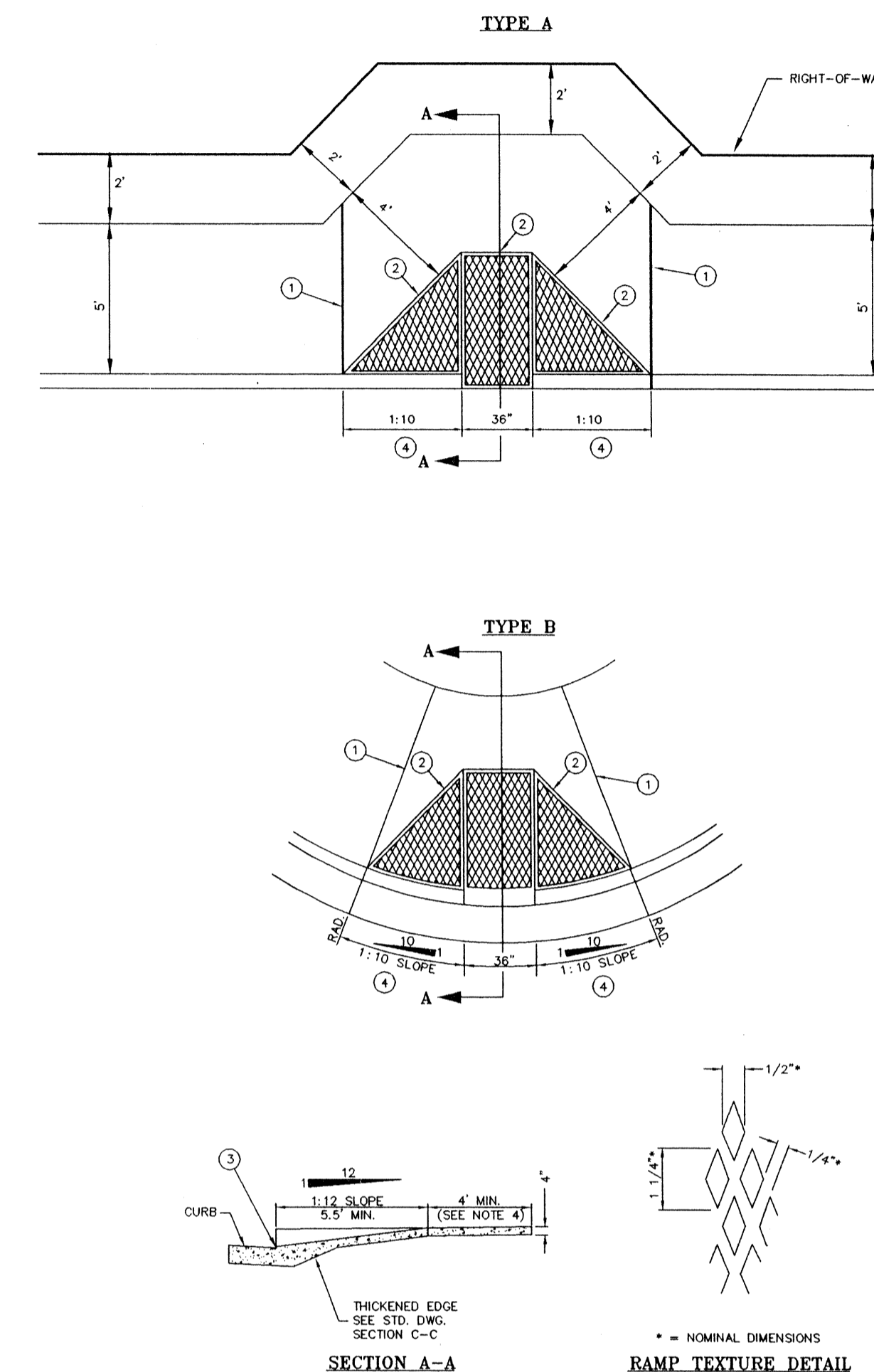
N.T.S.



- NOTES:
- THE OFF-STREET MONUMENT SHALL BE THE SAME EXCEPT USING NO. 4 REBAR & W/OUT A CASE AND COVER. THE OFF-STREET MON SHALL BE 3" ABOVE GRADE.
 - MONUMENT CASE AND COVER SHALL BE CAST IRON.
 - BRASS DISC SHALL BEAR L.S.#12716

TYPICAL TYPE A & B CURB RAMP

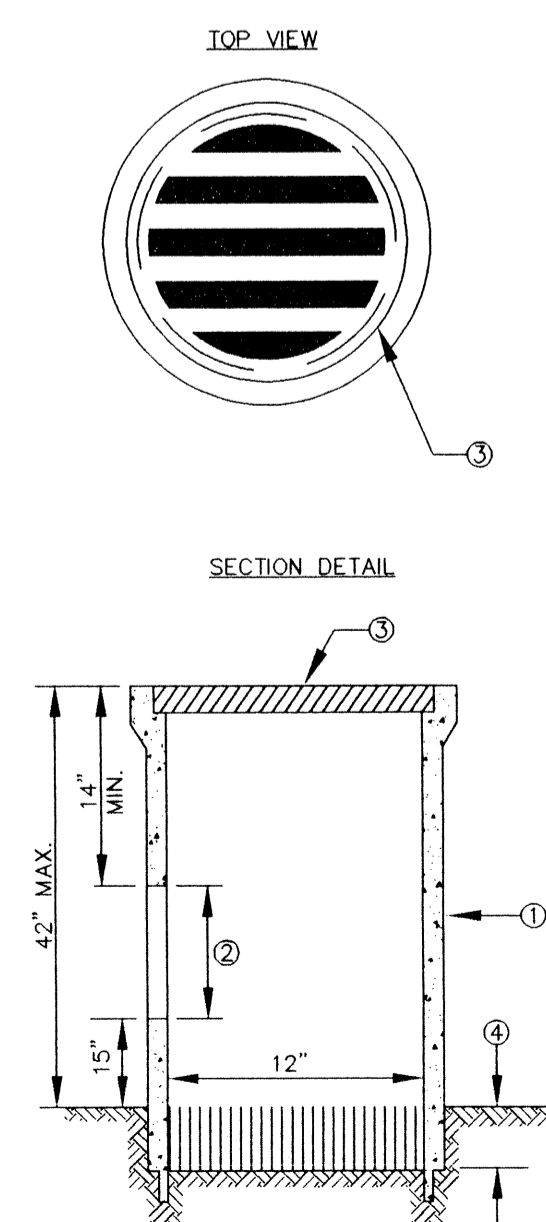
N.T.S.



- NOTES:
- 3/8" EXPANSION JOINT.
 - RAMP TEXTURE IS TO BE DONE WITH AN EXPANDED METAL GRATE PLACED AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. THE LONG AXIS OF THE DIAMOND SHALL BE PERPENDICULAR TO CURB. GROVES SHALL BE 1/8" DEEP AND 1/4" WIDE.
 - 1/2" MAXIMUM LIP AT OUTER LINE.
 - IF LANDING AREA IS LESS THAN 4', DECREASE SIDE RAMP SLOPE TO 12:1 (HORIZONTAL : VERTICAL)

TYPICAL YARD DRAIN

N.T.S.



- NOTES:
- YARD DRAINS TO BE CONSTRUCTED FROM CONCRETE PIPE, IN ACCORDANCE WITH THE ASTM C-14.
 - OUTLET HOLE SIZE IS EQUAL TO OUTLET PIPE OUTSIDE DIAMETER PLUS YARD DRAIN WALL THICKNESS.
 - CAST IRON BELL GRATE. FITS INTO BELL RECESS AND EXTENDS FLUSH WITH FACE OF BELL. THE GRATE SHALL HAVE SLOTS (HOLES) THAT CONSTITUTE 50% OPEN AREA FOR DRAINAGE. INLET BELL SURFACE SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH COVER POSITION.
 - WASHED DRAIN ROCK. 6 INCHES MINIMUM.
 - CONNECTION TO OUTLET PIPE TO BE MORTARED AND MADE FLUSH WITH INSIDE OF THE YARD DRAIN WALL.

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

By: *Wendy V. Slight* 12/1/98

R/W PERMIT NO. 981101338

CASCADE SURVEYING & ENGINEERING, INC.
 Surveyors & Engineers
 P.O. BOX 326, WASHINGTON, WASHINGTON 98223
 (360)435-3551
 (360)552-7572
 F-800-593-5551

DESIGNED SHEET DATE 8/98
 DRAWN T.N. DATE 9/98
 CHECKED R.L.D. DATE 9/98
 FIELD BOOK SNO. 465

SMOKEY POINT ESTATES - P.R.D.
 FILE NO. 97-101613
DETAILS

8 of 8
 # 12914
 /CONS/DWG/12914EN8