

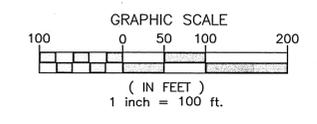
# COVER SHEET FOR SUNVIEW RIDGE WOODLAND ESTATES PUD

## STREET AND DRAINAGE PLANS

SECTION 31, T.26 N., R44 E., W.M.  
SPOKANE COUNTY, WASHINGTON

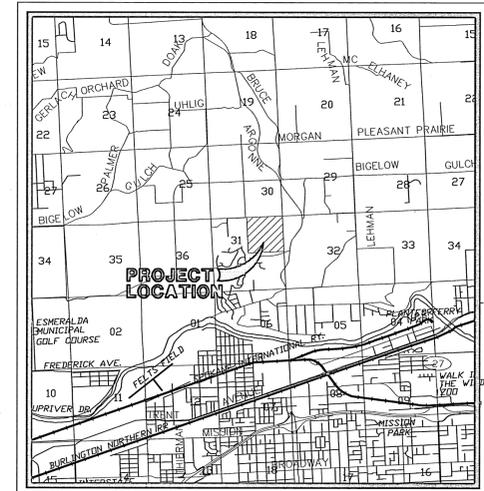
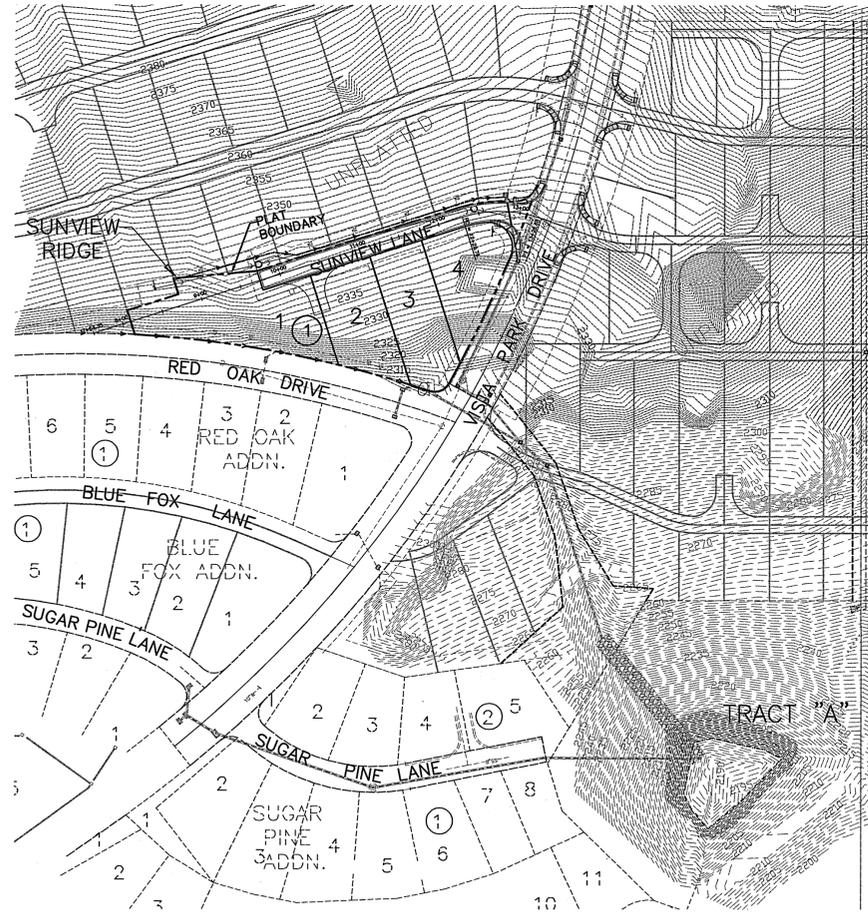
**UNDERGROUND SERVICE ALERT**  
ONE-CALL NUMBER  
**456-8000**  
CALL TWO BUSINESS DAYS  
BEFORE YOU DIG

**CLC Associates, Inc.**  
Planning  
Engineering  
Architecture  
Landscape Architecture  
Land Surveying  
707 W. 7th Avenue, Suite 200  
Spokane, WA 99204  
Phone: (509) 458-6840  
Fax: (509) 458-6844



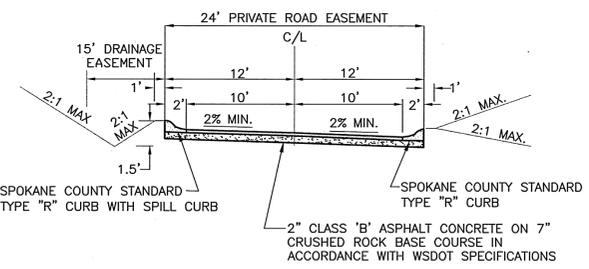
**GENERAL NOTES**

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY ENGINEER OF RECORD.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE SPOKANE COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY SPOKANE COUNTY, FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO THE SPOKANE COUNTY INSPECTOR AT ALL TIMES.
13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE RECORD DRAWINGS.
14. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
17. THE CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR ALL WORK IN PUBLIC ROADS AND R.O.W.'S TO THE SPOKANE COUNTY BEFORE BEGINNING ANY WORK ON THESE ROADS. CONTRACTOR SHALL BEGIN WORK ONLY AFTER THE SPOKANE COUNTY APPROVES THE PHASING PLAN, AND A PRECONSTRUCTION MEETING IS HELD BETWEEN THE SPOKANE COUNTY THE ENGINEER AND THE CONTRACTOR.
18. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 6:00 A.M. AND 10:00 P.M. EVERYDAY UNLESS OTHERWISE APPROVED BY THE SPOKANE COUNTY.
19. BASED ON A REQUIREMENT FROM A LOCAL JURISDICTION THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, DAILY TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.
20. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.
21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.



**VICINITY MAP**

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THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT #: P1729K  
DATE ACCEPTED: 8/13/2004  
ACCEPTANCE EXPIRES: 8/13/2004  
PROJECT LANE MILES PUBLIC: 3  
PROJECT LANE MILES PRIVATE: 0.01  
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.  
PERMIT REQUIRED! (509) 477-3600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

*Bruce Walser*  
DEVELOPER'S APPROVAL

*August 12, 2004*  
DATE

Sheet Title  
**STREET COVER**  
1 OF 4  
Sheet Number

*P1729K Eng Road & Drainage*

Date Description  
2/09/02 ORIGINAL PREPARATION  
04/22/02 2ND SUBMITTAL  
07/29/02 FINAL SUBMITTAL

County Number: S020006  
CLC Job Number: S020006  
Drawn By: SMM  
Designed By: SKM  
Checked By: JFS

THESE PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROTECTED BY COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT. THEY MAY NOT BE REPRODUCED OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CLC ASSOCIATES, INC. (AN AFFILIATE OF COLORADO LAND CONSULTANTS, INC.)

**JOHN F. SAYMERS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
36212  
EXPIRES 5/18/04

PREPARED UNDER THE DIRECT SUPERVISION OF  
**JOHN F. SAYMERS, P.E.**  
WASHINGTON REGISTRATION  
36212  
FOR AND ON BEHALF OF  
CLC ASSOCIATES, INC.

STREET CONSTRUCTION PLANS  
SUNVIEW RIDGE -  
WOODLAND ESTATES PUD  
COVER SHEET  
SPOKANE COUNTY, WASHINGTON

SECTION 31, T.26 N., R.44 E., W.M.  
SPOKANE COUNTY, WASHINGTON

NAV88 DATUM  
ESTABLISHED ON-SITE BY GPS  
SURVEY PERFORMED 11/21/00  
BASED ON WSDOT MONUMENTS  
GP32290-143 AND GP33290-147

UNDERGROUND SERVICE ALERT  
ONE-CALL NUMBER  
456-8000  
CALL TWO BUSINESS DAYS  
BEFORE YOU DIG

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Engineering  
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Landscape Architecture  
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Phone: (509) 458-6840  
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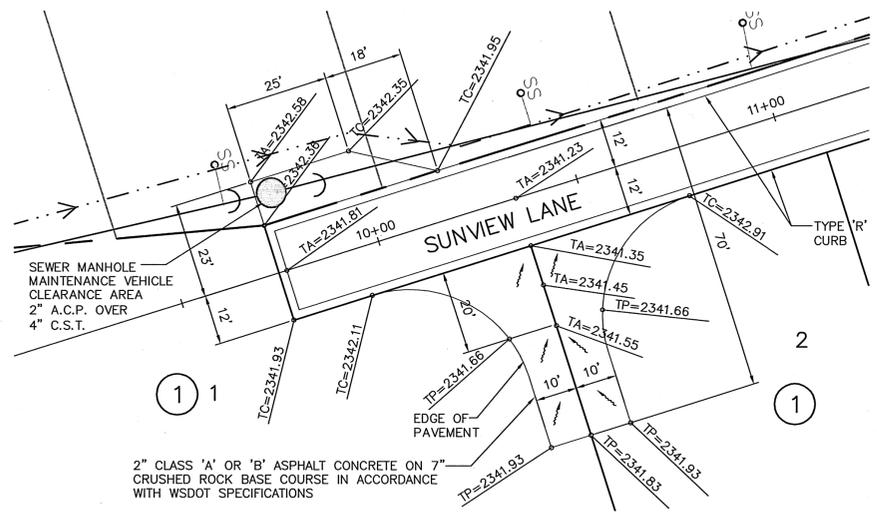
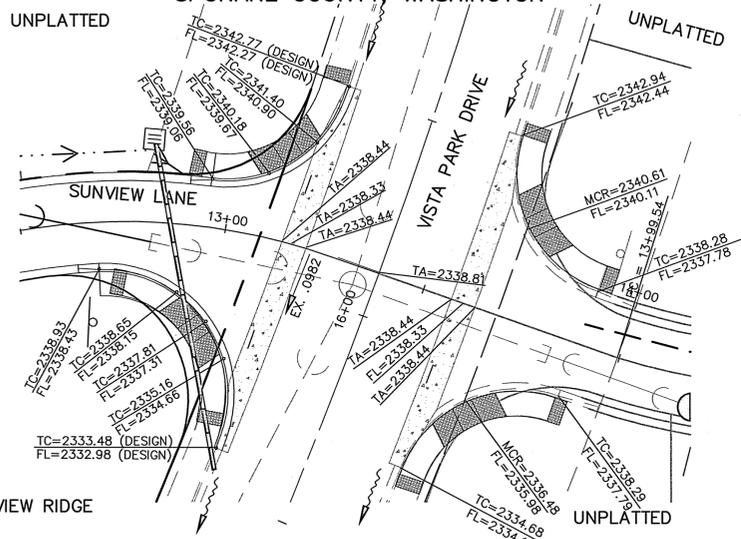
PREPARED UNDER THE DIRECT  
SUPERVISION OF  
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County Number: S020006  
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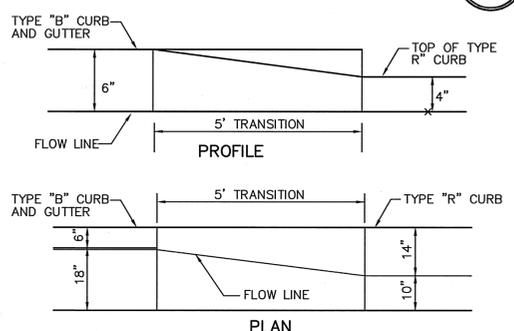
STREET CONSTRUCTION PLANS  
SUNVIEW RIDGE -  
WOODLAND ESTATES PUD  
DETAILS  
SPOKANE COUNTY, WASHINGTON

Sheet Title  
STREET INDEX  
2 OF 4  
Sheet Number

EXISTING	GENERAL	PROPOSED
---	ROADWAY CENTER LINE	---
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EASEMENT LINE	---
-x-x-	FENCE	-x-x-
---	CURB	---
---	PAVEMENT	---
---	GRAVEL	---
---	CONCRETE	---
---	BUILDINGS & STRUCTURES	---
---	SANITARY SEWER	---
---	SANITARY SEWER MANHOLE	---
---	CLEANOUT	---
---	SEWER SERVICE	---
---	WATER	---
---	WATER LINE VALVE	---
---	FIRE HYDRANT SERVICE	---
---	METER	---
---	BLOWOFF	---
---	AIR VACUUM RELIEF STATION	---
---	STORM DRAINAGE	---
---	DRAINAGE LINE MANHOLE	---
---	DRYWELL	---
---	CATCH BASIN	---
---	DITCH	---
---	NATURAL GAS	---
---	GAS LINE VALVE	---
---	METER	---
---	TELEPHONE - POWER	---
---	BURIED TELEPHONE POWER OR TELEPHONE POLE	---
---	BURIED POWER	---
---	TRANSFORMER PAD	---
---	TELEPHONE RISER	---
---	TELEPHONE VAULT	---
---	OVERHEAD POWER	---
---	GUY ANCHOR	---
---	POWER VAULT	---
---	LIGHT POLE	---

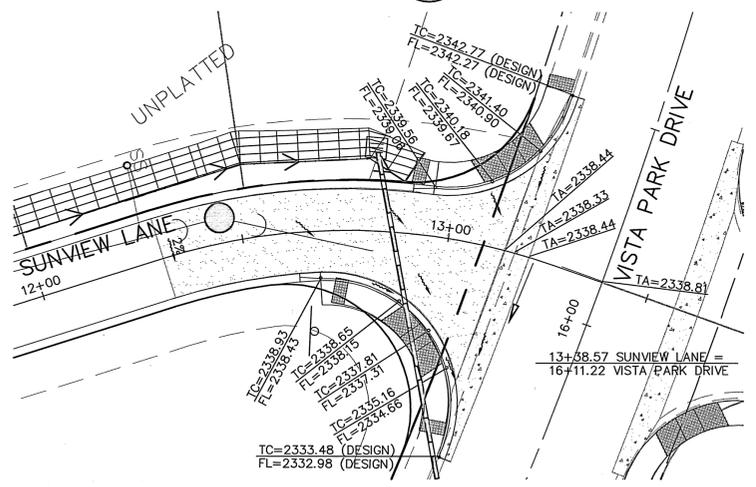


EXISTING GUTTER PER VISTA PLACE  
SCALE: 1"=20'

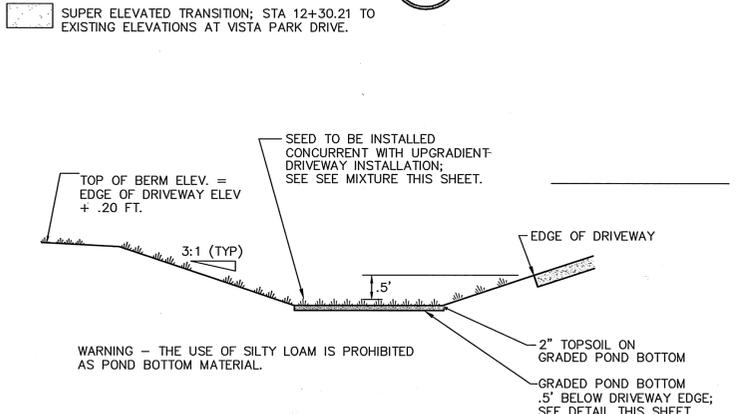


TYPE "B" TO TYPE "R" CURB TRANSITION DETAIL  
NOT TO SCALE

INTERSECTION DETAIL  
SCALE: 1"=20'



INTERSECTION DETAIL  
SCALE: 1"=20'



TYPICAL DRIVEWAY '208' POND WITHOUT DRAINAGE STRUCTURE  
NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT #: P1729K  
DATE ACCEPTED: 8/12/2002  
ACCEPTANCE EXPIRES: 8/12/2004  
PROJECT LANE MILES PUBLIC: 0.57  
PROJECT LANE MILES PRIVATE: 0.57  
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.  
PERMIT REQUIRED! (509) 477-3600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

STREET GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2001", AND AS AMENDED.
- THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, SUSAN MURPHY, @ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, S.T.L. PAUL NELSON, P.E. @ 534-9711 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.
- FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUIVALENT, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK, AND BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.
- IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.
- THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.
- ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.
- FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT./FT.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.
- THE FLOOR OF A GRASSED PERCOLATION AREA (G.P.A.) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND SIDESLOPES OF THE SWALE UP TO THE G.P.A. OVERFLOW SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL G.P.A. SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

STORM DRAINAGE NOTES

- SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.
- PONDS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL PONDS WITHIN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SHALL CONFORM TO SPOKANE COUNTY POND IRRIGATION SYSTEM GUIDELINES.
- ALL "208" PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.
- CONTRACTOR SHALL PROVIDE SPOKANE COUNTY WITH AS-BUILT IRRIGATION PLANS UPON COMPLETION OF ALL POND CONSTRUCTION.
- INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE SPOKANE COUNTY STANDARDS (1999 EDITION) SHEET B-1a FOR INSTALLATION LOCATIONS.
- ALL PONDS WITHIN THE COUNTY RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE POND GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE PONDS FOLLOWING THE ROAD PAVING WORK.
- THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS, THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.
- ALL LANDSCAPE AREAS ("208" PONDS) ARE TO BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY.
- SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED. PATCH ASPHALT AS NEEDED.
- LAWN AREAS: LAWN AREAS ARE TO BE IRRIGATED WITH TORO POP-UP HEADS OR EQUIVALENT. (TEST SYSTEM BEFORE BACKFILLING).
- ADJUSTMENT: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, ETC. TO PROVIDE UNIFORM COVERAGE AND TO MINIMIZE OVER SPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.
- WATER POWER SUPPLY: THE OWNER/ GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.

Susan Walber  
DEVELOPER'S APPROVAL

7-1-2002  
DATE

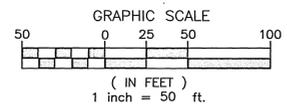
P1729K Eng. Road & Drainage

SECTION 31, T.26 N., R44 E., W.M.  
SPOKANE COUNTY, WASHINGTON

NAVD 88 DATUM

ESTABLISHED ON-SITE BY GPS  
SURVEY PERFORMED 11/21/00  
BASED ON WSDOT MONUMENTS  
GP32290-143 AND GP33290-147

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Phone: (509) 658-6840  
Fax: (509) 458-6844

Professional Engineer  
JOHN FRANK SAYMERS  
36212  
EXPIRES 5/18/04

PREPARED UNDER THE DIRECT  
SUPERVISION OF  
JOHN FRANK SAYMERS, P.E.  
WASHINGTON REGISTRATION  
NO. 36212  
FOR AND ON BEHALF OF  
CLC ASSOCIATES, INC.

Date	Description
02/09/02	ORIGINAL PREPARATION
04/22/02	2ND SUBMITTAL
08/26/02	FINAL SUBMITTAL

County Number: S020006  
CLC Job Number: S020006  
Drawn By: SMM  
Designed By: SKM  
Checked By: JFS  
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STREET CONSTRUCTION PLANS  
SUNVIEW RIDGE -  
WOODLAND ESTATES PUD  
SUNVIEW LANE STA 9+76.61 TO STA 13+38.57  
SPOKANE COUNTY, WASHINGTON

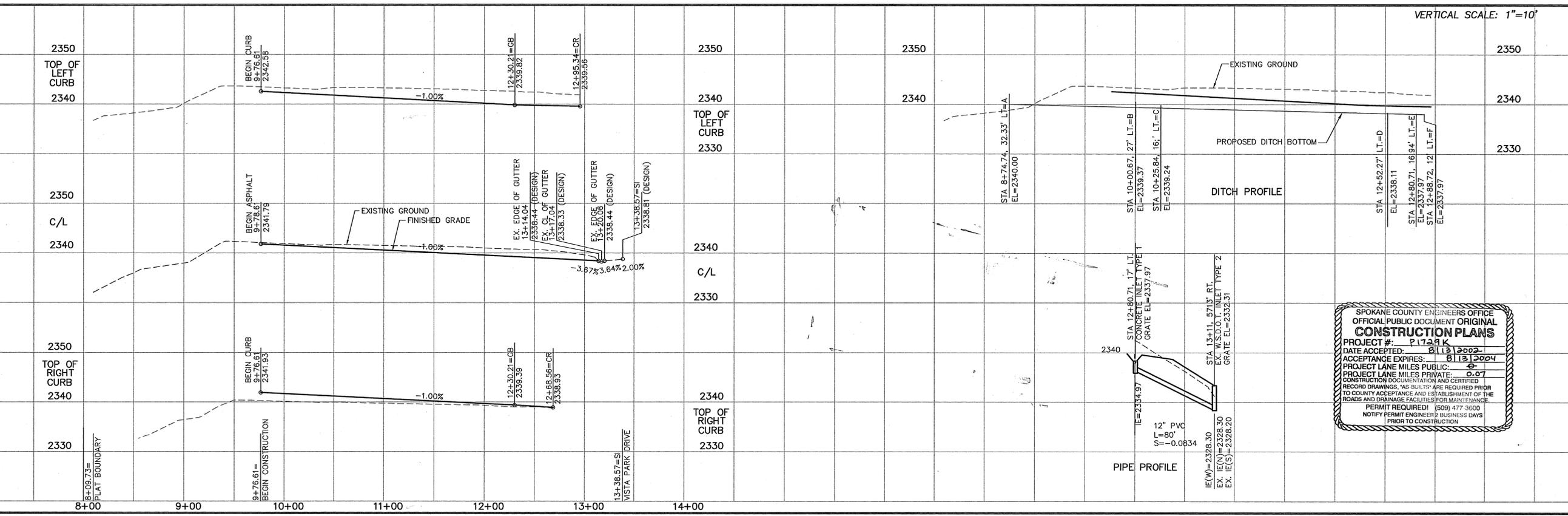
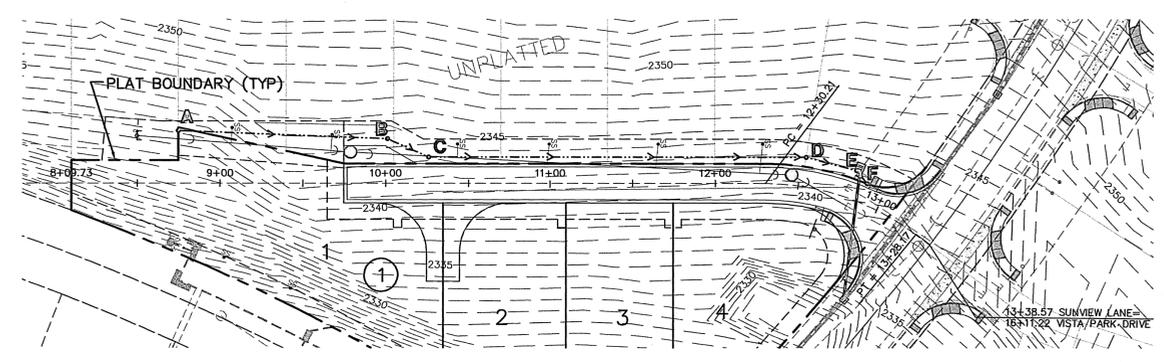
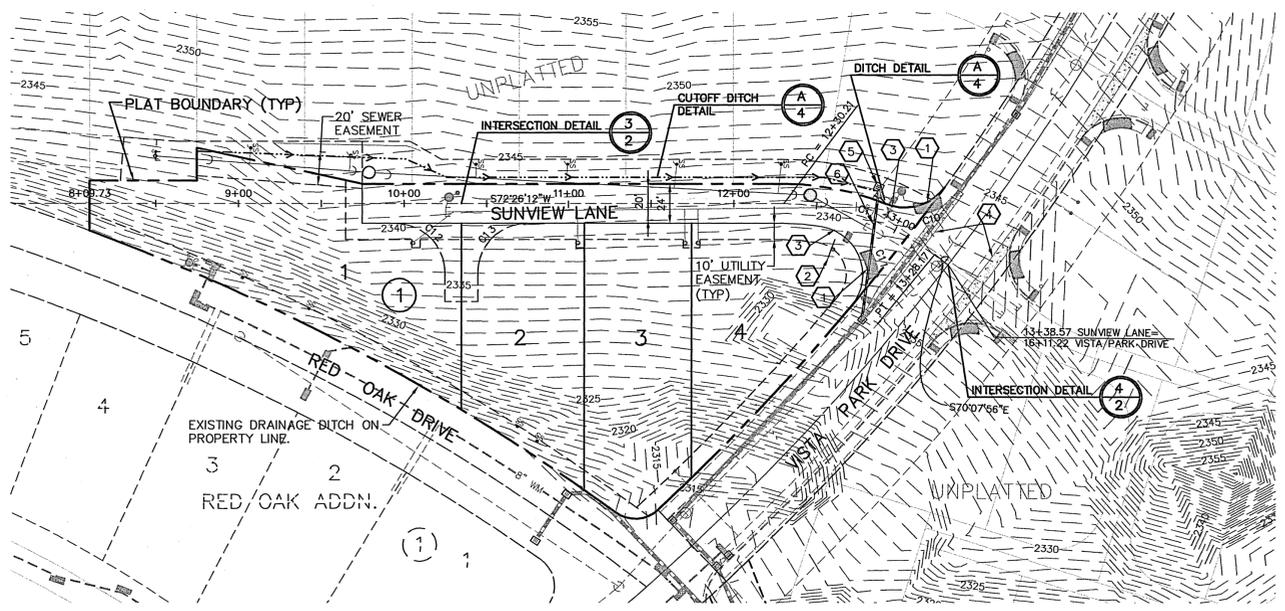
Sheet Title  
STREET  
PLAN AND  
PROFILE  
3 OF 4  
Sheet Number

CONSTRUCTION NOTES

- 1 WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN 'A'.
- 2 STREET AND STOP SIGN PER SPOKANE COUNTY AND M.U.T.C.D.
- 3 5' CURB TRANSITION. SEE DETAIL 2, SHEET 2.
- 4 EXISTING CONCRETE CROSS-GUTTER. CONSTRUCTED WITH VISTA PARK DRIVE. SEE DETAIL 5, SHEET 2.
- 5 CONCRETE INLET TYPE 1 WITH TYPE 1 METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-5, B-10 AND B-12.
- 6 80 L.F. 12" PVC PIPE. S=0.1204 FT./FT.; IE(N)=2337.93, IE(S)=2328.30.

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	150.00'	97.96'	50.80	96.23'
C10	30.00'	41.56'	24.89	38.31'
C11	30.00'	60.30'	47.24	50.65'
C12	30.00'	47.12'	30.00	42.43'
C13	30.00'	47.12'	30.00	42.43'

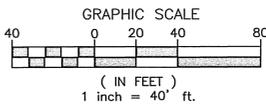
CURVE INFORMATION ON TYPE "R" CURB REFERS TO TOP BACK OF CURB.  
CURB INFORMATION ON TYPE "B" CURB REFERS TO TOP FACE OF CURB.



SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT #: P1729K  
DATE ACCEPTED: 8/13/2004  
ACCEPTANCE EXPIRES: 8/13/2004  
PROJECT LANE MILES PUBLIC: 0.07  
PROJECT LANE MILES PRIVATE: 0.07  
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.  
PERMIT REQUIRED! (509) 477-3600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

P.1729K Eng. Road & Drainage

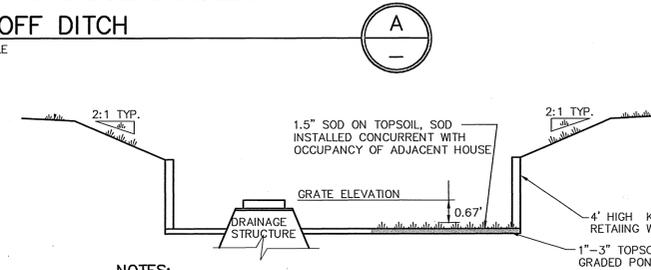
SEC. 31, T.26 N., R.44 E.W.M.  
SPOKANE COUNTY, WASHINGTON



**\*DRYLAND GRASS SEED MIX**  
SPOKANE COUNTY PUBLIC WORKS, FEBRUARY 1998  
GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:  
20% ELKA PERENNIAL RYE  
20% DURAR HARD FESCUE  
45% COVAR SHEEP/FESCUE  
15% REUBENS CANADIAN BLUEGRASS  
PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:  
GRASS SEED: 90 LBS. PER ACRE  
FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE  
ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SEC. 8-01.

**CUTOFF DITCH**

NO SCALE

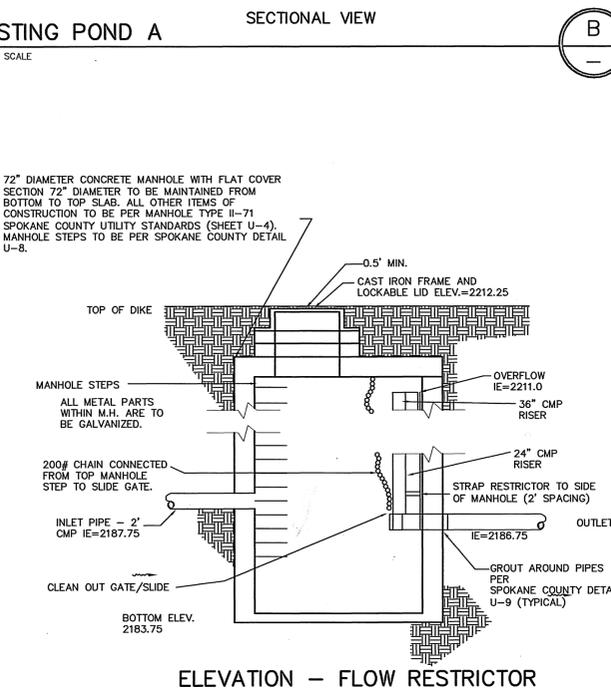


**NOTES:**

1. PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK AND BETWEEN THE WASHED DRAIN ROCK AND THE DRYWELL BARREL.
2. WHEN SOIL TESTS ARE REQUIRED, 1 TEST FOR EACH CATION EXCHANGE CAPACITY AND SOIL ORGANIC MATTER SHALL BE PERFORMED FOR EACH GRASSED PERCOLATION AREA 1500 S.F. OR LESS, AN ADDITIONAL SET OF TESTS MAY BE REQUIRED FOR EACH ADDITIONAL 2000 S.F. OR FRACTION THEREOF. TESTS SHALL BE PERFORMED ON A WELL-MIXED COMPOSITE SAMPLE CONSISTING OF THE TOP 6 INCHES OF SOIL FROM AT LEAST 4 CORES UNIFORMLY DISTRIBUTED OVER THE PERCOLATION AREA. IF THE AVERAGE CATION EXCHANGE IS 15 MILLIEQUIVALENTS/100g OR MORE OR THE SOIL IS 2% ORGANIC CARBON OR MORE, THE SOIL WILL BE CONSIDERED SUITABLE FOR STORMWATER TREATMENT.

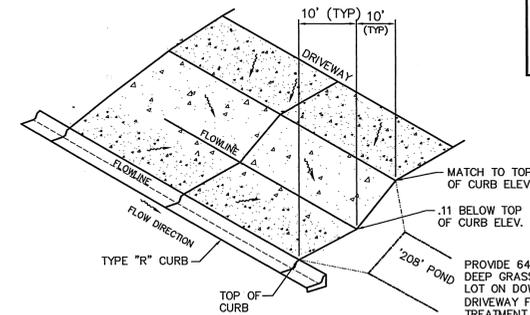
**EXISTING POND A**

NOT TO SCALE



**EXISTING FLOW RESTRICTOR MANHOLE**

NOT TO SCALE



**TYPICAL DRIVEWAY DETAIL**

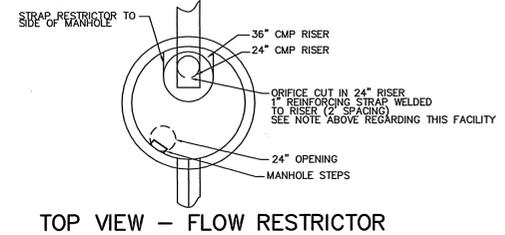
NOT TO SCALE

**\*DRYLAND GRASS SEED MIX**

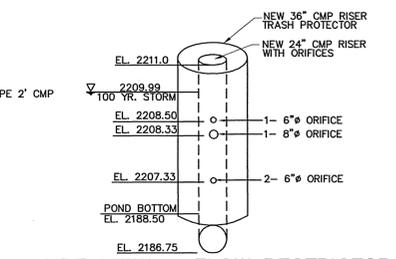
SPOKANE COUNTY PUBLIC WORKS, FEBRUARY 1998  
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ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SECTION 8-01.

**SPOKANE COUNTY ENGINEERS OFFICE**  
**OFFICIAL PUBLIC DOCUMENT ORIGINAL CONSTRUCTION PLANS**  
PROJECT #: P1729K  
DATE ACCEPTED: 8/13/2002  
ACCEPTANCE EXPIRES: 8/12/2004  
PROJECT LANE MILES PRIVATE: 0.07  
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS: HAS BEEN REVIEWED AND REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE PERMIT REQUIRED (609) 477-9600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

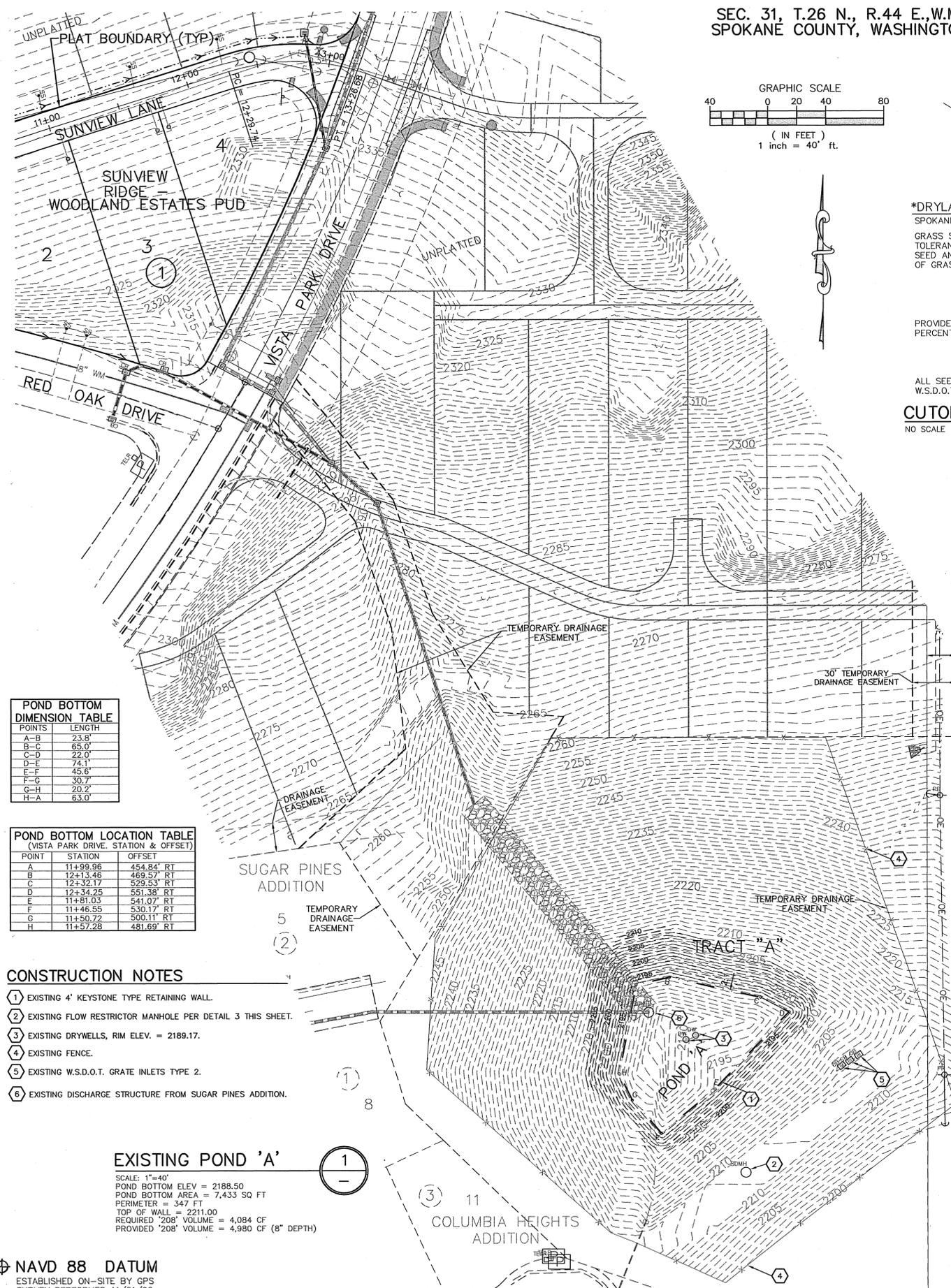
NOTE:  
A 1 FOOT SECTION OF THE 12\"/>



**TOP VIEW - FLOW RESTRICTOR**



**SIDE VIEW - FLOW RESTRICTOR**



**POND BOTTOM DIMENSION TABLE**

POINTS	LENGTH
A-B	23.0'
B-C	65.0'
C-D	22.0'
D-E	74.1'
E-F	45.8'
F-G	30.7'
G-H	20.2'
H-A	63.0'

**POND BOTTOM LOCATION TABLE**  
(VISTA PARK DRIVE, STATION & OFFSET)

POINT	STATION	OFFSET
A	11+99.96	454.84' RT
B	12+13.46	469.57' RT
C	12+32.77	529.53' RT
D	12+34.75	551.38' RT
E	11+81.03	541.07' RT
F	11+46.55	530.17' RT
G	11+50.72	500.11' RT
H	11+57.28	481.69' RT

**CONSTRUCTION NOTES**

1. EXISTING 4' KEYSTONE TYPE RETAINING WALL.
2. EXISTING FLOW RESTRICTOR MANHOLE PER DETAIL 3 THIS SHEET.
3. EXISTING DRYWELLS, RIM ELEV. = 2189.17.
4. EXISTING FENCE.
5. EXISTING W.S.D.O.T. GRATE INLETS TYPE 2.
6. EXISTING DISCHARGE STRUCTURE FROM SUGAR PINES ADDITION.

**EXISTING POND 'A'**

SCALE: 1"=40'  
POND BOTTOM ELEV = 2188.50  
POND BOTTOM AREA = 7,433 SQ FT  
PERIMETER = 347 FT  
TOP OF WALL = 2211.00  
REQUIRED '208' VOLUME = 4,084 CF  
PROVIDED '208' VOLUME = 4,980 CF (8" DEPTH)

NAV88 DATUM  
ESTABLISHED ON-SITE BY GPS  
SURVEY PERFORMED 11/21/00  
BASED ON WSDOT MONUMENTS  
GP 32290-143 AND GP 33290-147

**UNDERGROUND SERVICE ALERT**  
ONE-CALL NUMBER  
456-8000  
CALL TWO BUSINESS DAYS BEFORE YOU DIG

Associates, Inc.  
Planning  
Engineering  
Architecture  
Landscape Architecture  
Land Surveying  
707 W. 7th Avenue, Suite 200  
Spokane, WA 99204  
Phone: (509) 458-6840  
Fax: (509) 458-6844

Professional Engineer  
36512  
8/20/02  
EXPIRES 5/18/04

PREPARED UNDER THE DIRECT SUPERVISION OF  
JOHN F. SAYERS, P.E.  
WASHINGTON REGISTRATION NO. 36212  
FOR AND ON BEHALF OF  
CLC ASSOCIATES, INC.

Date	Description
02/08/02	ORIGINAL PREPARATION
04/22/02	2ND SUBMITTAL
06/29/02	FINAL SUBMITTAL

CLC Job Number: S020006  
Drawn By: SMM  
Designed By: SKM  
Checked By: JFS  
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STREET AND DRAINAGE CONSTRUCTION PLANS  
SUNVIEW RIDGE - WOODLAND ESTATES PUD  
DRAINAGE DETAILS  
SPOKANE COUNTY, WA

Sheet Title  
**DETAIL SHEET**  
4 OF 4  
Sheet Number

*Devan Watson*  
DEVELOPER'S APPROVAL

7-1-2002  
DATE

P1729K Eng. Road & Drainage