COVER SHEET FOR
NORTH PARK WEST
STREET AND STORM DRAINAGE PLANS
SE 1/4, SEC. 19, T. 26 N., R. 43 E, W.M.
SPOKANE COUNTY, WASHINGTON

STREET GENERAL NOTES

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER ALL IMPROVEMENTS AS DETAILED OR CALLED OUT ON THESE PLANS.

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2001", AND AS AMENDED.

2. 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.

3. 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.

4. 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.

5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, MARK L. KRIGBAUM, P.E., ☎ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, BUDINGER & ASSOCIATES, ☎ 535-8891 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, ☎ 477-3600.

6. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUIVALENT, BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1a.

7. 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.

8. 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.

9. 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.

10. ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.

11. 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.

STORM DRAINAGE GENERAL NOTES

1. SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.

2. 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.

3. ALL "208" PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.

4. CONTRACTOR SHALL PROVIDE SPOKANE COUNTY WITH RECORD DRAWINGS OF THE IRRIGATION PLANS UPON COMPLETION OF ALL POND CONSTRUCTION.

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE SPOKANE COUNTY STANDARDS SHEET B-1a FOR INSTALLATION LOCATIONS.

6. 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.

7. 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.

8. 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.

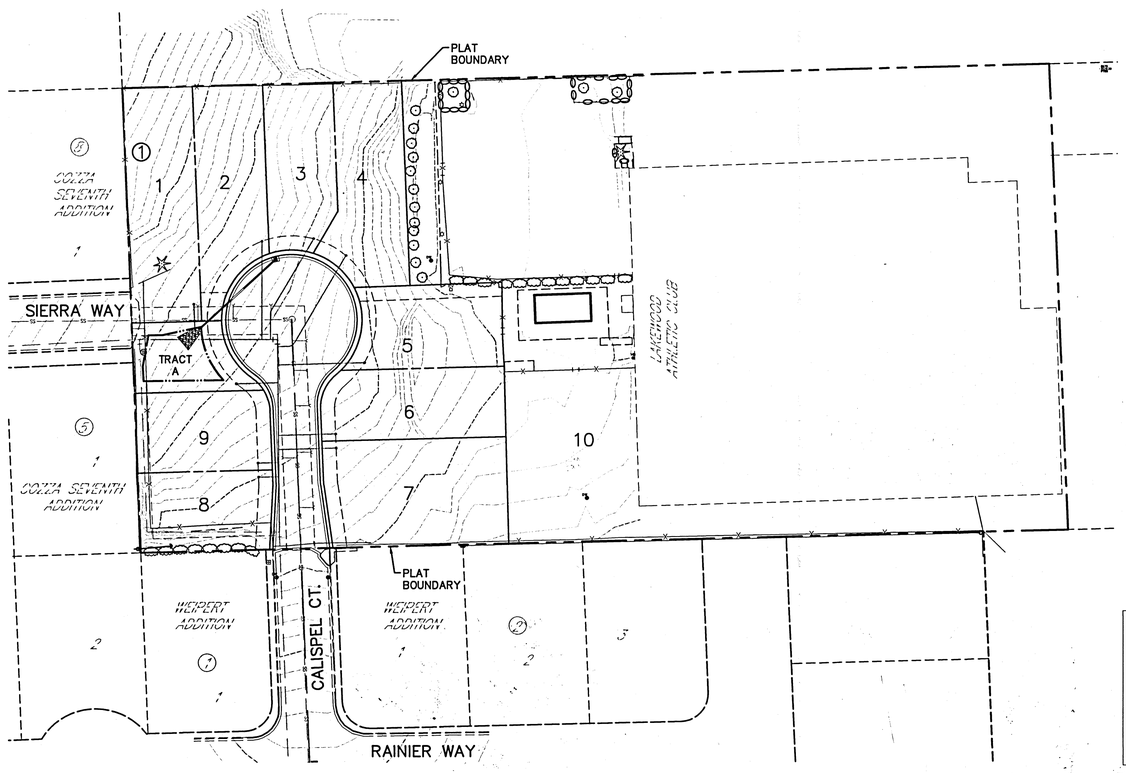
9. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA 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 A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

NAVD '88 DATUM
SPOKANE COUNTY TBM #82. AN 'X' ON THE SOUTHERN BOLT OF A FIRE HYDRANT AT THE NORTHEASTER QUATDRANT OF WEIPERT DRIVE AND SIERRA WAY.
NAVD 88 ELEVATION = 1989.97

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

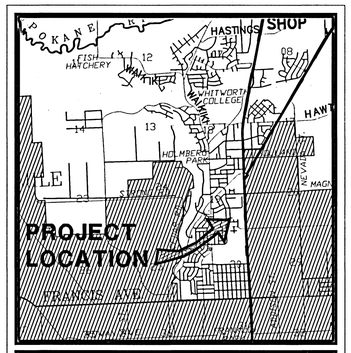
CAUTION: NOTICE TO CONTRACTOR

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 ON 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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



LEGEND

EXISTING	GENERAL	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	PAVEMENT	
	GRAVEL	
	PLAT BOUNDARY	
	BUILDINGS & STRUCTURES	
	SANITARY SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
V	VALVE	V
FH	FIRE HYDRANT	FH
WS	SERVICE	WS
WM	METER	WM
BLOWOFF	BLOWOFF	BLOWOFF
AVRS	AIR VACUUM RELIEF STATION	AVRS
	STORM DRAINAGE	
MH	DRAINAGE LINE	
DW	MANHOLE	MH
CB	DRYWELL	DW
	CATCH BASIN	CB
	DITCH	



VICINITY MAP

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SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1924
DATE ACCEPTED: 5/26/04
ACCEPTANCE EXPIRES: 5/26/06
PROJECT LANE MILES PUBLIC: 0.1
PROJECT LANE MILES PRIVATE: 0
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

CERTIFICATION STATEMENT: I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL PLAN MEETS THE E.S.C. REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

MARK L. KRIGBAUM, P.E.

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.

NORTH 50 0 25 50
SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL — DATE 4/09/04

P-1924 Eng Road-Drainage

CLC ASSOCIATES
707 WEST 7TH AVENUE
SUITE 200
SPOKANE
WASHINGTON 99204
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F 509 458 6844
CLCASSOC.COM
ARCHITECTURE
ENGINEERING PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

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

STREET AND STORM DRAINAGE PLANS
NORTH PARK WEST
COVER SHEET
SPOKANE COUNTY, WASHINGTON

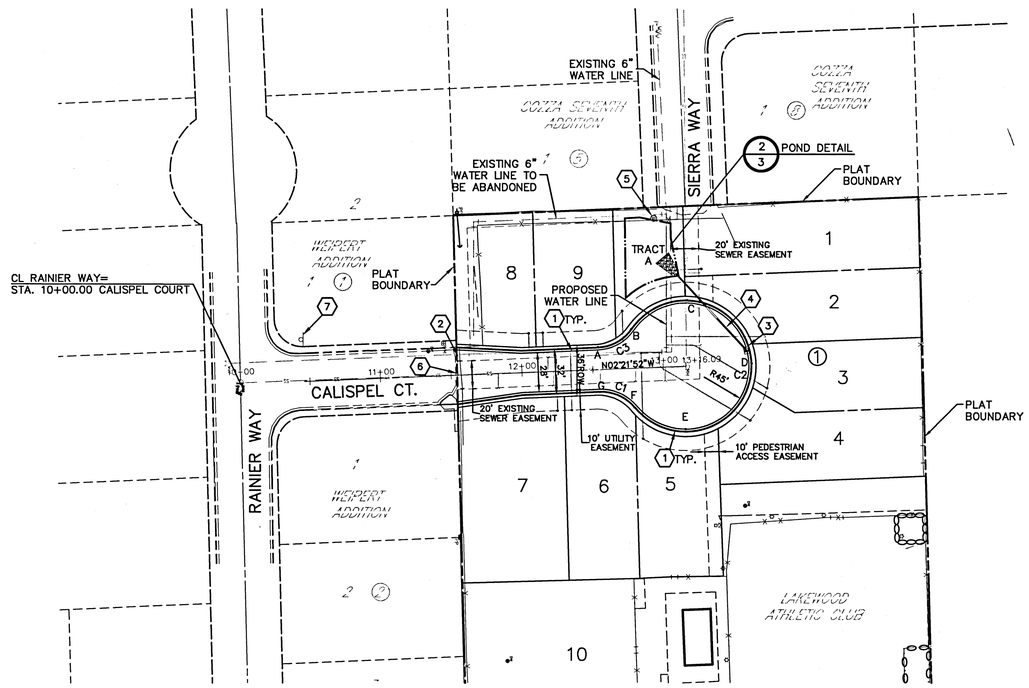
MARK L. KRIGBAUM — STATE OF WASHINGTON — 39236 — REGISTERED PROFESSIONAL ENGINEER — 4-9-04
EXPIRES 6/14/05
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
02/12/04	ORIGINAL PREPARATION

COVER SHEET

PROJECT #: S030106
DRAWN BY: AKF
DESIGNED BY: AKF
CHECKED BY: MLK

SECTION 19, T.26 N., R43 E., W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE B CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TRANSITION ROADWAY PAVED WIDTH FROM 37' AT EXISTING ASPHALT TO 28' AT STA 12+00
3. INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 METAL FRAME AND GRATE, PER SPOKANE COUNTY STANDARD PLANS B-4 AND B-7. STA 11+35.40, OFFSET 2.0 RT, CALISPEL CUL-DE-SAC.
4. PROVIDE AND INSTALL 74.00 LF OF 12" PVC PIPE. IE(N)=2000.14 IE(S)= 1999.00 SLOPE=0.0154 FT/FT. SEE PROFILE, THIS SHEET.
5. PROVIDE AND INSTALL TYPE B DOUBLE DEPTH DRYWELL WITH METAL FRAME PER SPOKANE COUNTY STANDARD PLAN B-1a AND CONCRETE SLOTTED COVER PER SPOKANE COUNTY STANDARD PLAN B-16a. RIM ELEV.= 1999.50
6. CONTRACTOR TO MATCH EXISTING GRADE AND SAWCUT EXISTING PAVEMENT TO CONFORM. IF DISCREPANCY NOTIFY CLC ASSOCIATES 458-6840.
7. STREET NAME ON INTERSECTION SIGNPOST TO BE CHANGED FROM "CALISPEL STREET" TO "CALISPEL COURT."

CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	29.78	32.00	16.06	28.71	53°18'57"
C2	225.12	45.00	33.52	53.77	286°37'54"
C3	29.78	32.00	16.06	28.71	53°18'57"

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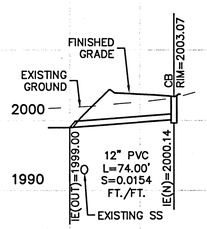
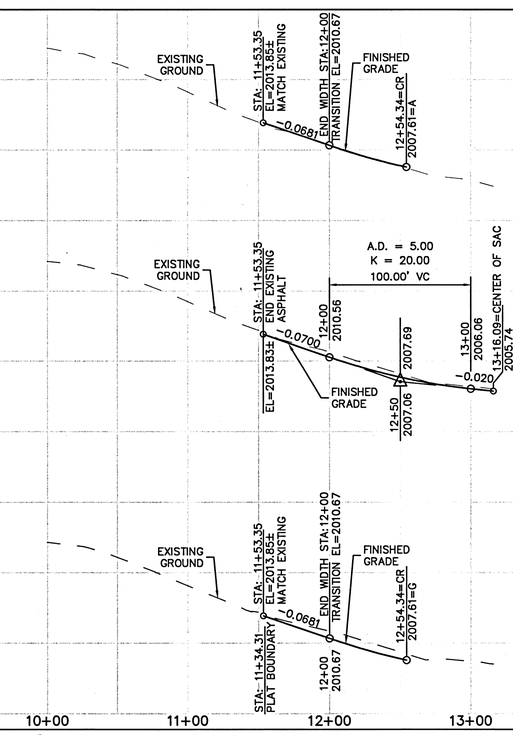
DEVELOPER'S APPROVAL — DATE 4/09/04

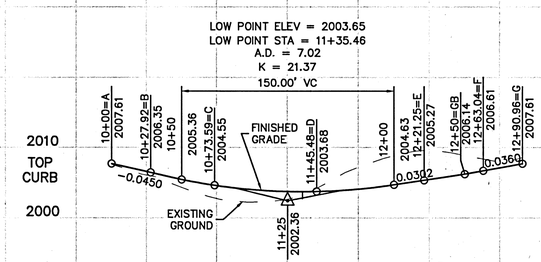
NORTH — SCALE: 1" = 50'-0"

VERTICAL SCALE: 1"=10'



STORM PIPE PROFILE





CUL DE SAC PROFILE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1924
DATE ACCEPTED: 5/26/04
ACCEPTANCE EXPIRES: 5/26/06
PROJECT LANE MILES PUBLIC: 0.1
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STREET AND DRAINAGE PLAN AND PROFILE

NORTH PARK WEST

CALISPEL COURT
STA 11+53.35 TO 13+16.09
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM — STATE OF WASHINGTON — 39236 — REGISTERED PROFESSIONAL ENGINEER — 4-8-04

EXPIRES 6/14/05

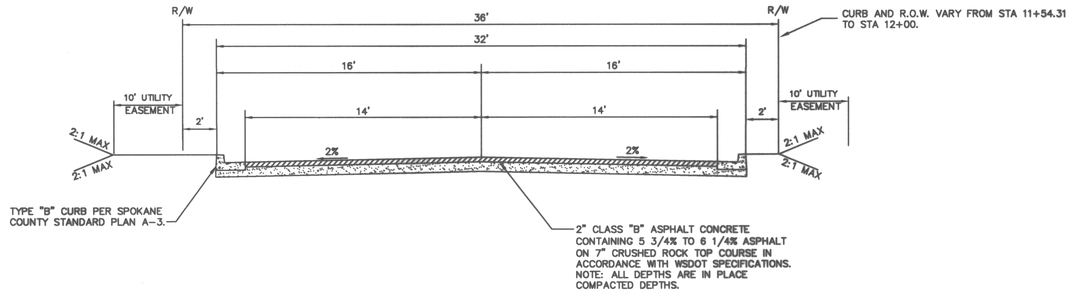
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
03/04/04	ORIGINAL PREPARATION

CALISPEL COURT P & P SHEET

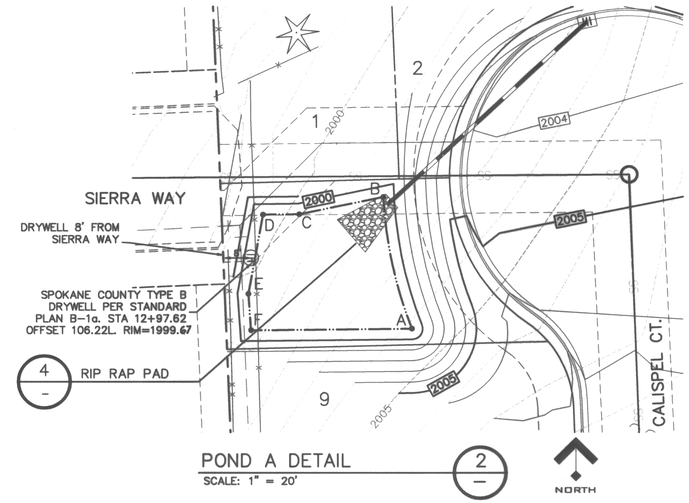
PROJECT #: S030106
DRAWN BY: AKF
DESIGNED BY: AKF
CHECKED BY: MLK

P-1924 Eng Rad. Drainage



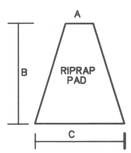
TYPICAL CALISPEL COURT CROSS SECTION — 1

NOT TO SCALE



POND A DETAIL — 2

SCALE: 1" = 20'



RIPRAP PAD DIMENSIONS	A	B	C
POND 'A'	3'	15'	9'

MINIMUM STONE DIAMETER: 4 INCHES
MINIMUM THICKNESS: 12 INCHES

PLAN VIEW– RIPRAP PAD — 4

NOT TO SCALE

NOTE:
RIPRAP PAD MUST BE INSTALLED WITH FILTER FABRIC (AMOCO OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.

POND BOTTOM LOCATION TABLE (CALISPEL COURT STATION & OFFSET)			
POINT	STATION	OFFSET	
A	10+39.66	17.68'	LT
B	10+69.94	17.56'	LT
C	10+68.11	45.46'	LT
D	10+68.64	55.54'	LT
E	10+59.41	64.06'	LT
F	10+55.26	66.93'	LT

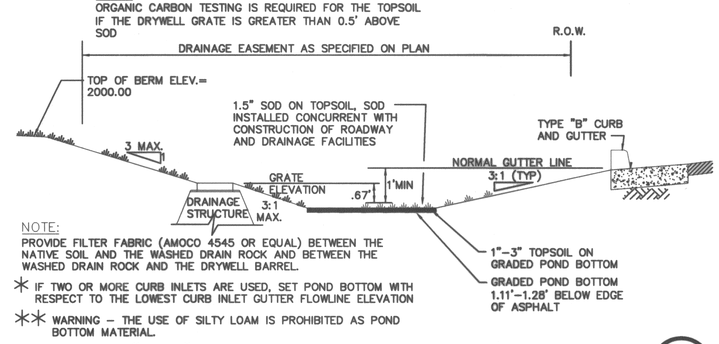
POND BOTTOM DIMENSION TABLE	
POINTS	LENGTH
A–B	41.78' R=~~58.46~~
B–C	~~28.06'~~ 24.00'
C–D	10.14'
D–E	22.53'
E–F	10.35'
F–A	~~56.03'~~ 45.00'

POND "A"

FINISHED GRADE POND BOTTOM EL=1999.00
POND BOTTOM AREA PROVIDED = ~~1577 S.F.~~ 1340 S.F.
POND VOLUME REQ'D = 1723 C.F.
POND VOLUME PROVIDED= ~~1830 C.F.~~1723 C.F.
MINIMUM BERM ELEV.=2000.00
PERIMETER = ~~169.7 L.F.~~148 L.F.
REQUIRED '208' VOLUME = 683 C.F.
*PROVIDED '208' VOLUME = ~~788 C.F.~~996 C.F.

*PROVIDED '208' CALCULATED AT 8" DEPTH AND INCLUDES SIDE SLOPE.

NOTE:
ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE DRYWELL GRATE IS GREATER THAN 0.5' ABOVE SOD



NOTE:
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.

* IF TWO OR MORE CURB INLETS ARE USED, SET POND BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION

** WARNING – THE USE OF SILTY LOAM IS PROHIBITED AS POND BOTTOM MATERIAL.

TYPICAL "208" POND WITH DRAINAGE STRUCTURE — 3

NOT TO SCALE

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SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1924
DATE ACCEPTED: 1-6-05
ACCEPTANCE EXPIRES: 5-26-06
PROJECT LANE MILES PUBLIC: 0.1
PROJECT LANE MILES PRIVATE: 0.0
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

REVISED

DEVELOPER'S APPROVAL — DATE 12-21-04

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707 WEST 7TH AVENUE
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SPOKANE
WASHINGTON 99204
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F 509 458 6844
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ENGINEERING PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

STREET AND STORM DRAINAGE PLANS

NORTH PARK WEST
DETAIL SHEET
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM — STATE OF WASHINGTON — 39236 — REGISTERED PROFESSIONAL ENGINEER — 12-20-04

EXPIRES 6/14/05
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
11/14/03	ORIGINAL PREPARATION
12/21/04	OWNER REVISION

STREET DETAILS

PROJECT #S030106
DRAWN BY: DCJ
DESIGNED BY: AKF
CHECKED BY: MLK

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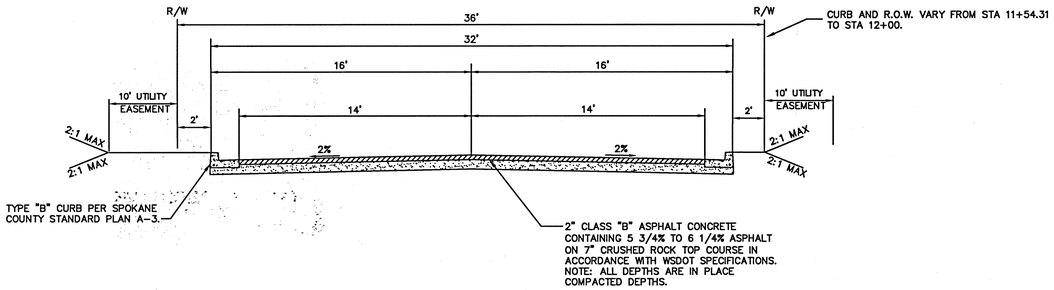
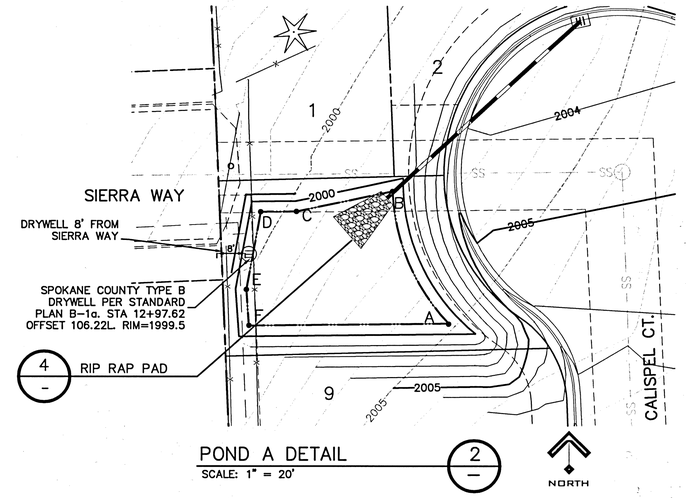
Revised P-1924 Eng Road Drainage



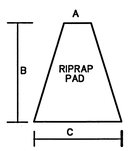
TYPICAL CALISPEL COURT CROSS SECTION (1)

NOT TO SCALE



POND A DETAIL (2)

SCALE: 1" = 20'



RIPRAP PAD DIMENSIONS	A	B	C
POND 'A'	3'	15'	9'

MINIMUM STONE DIAMETER: 4 INCHES
MINIMUM THICKNESS: 12 INCHES

PLAN VIEW– RIPRAP PAD (4)

NOT TO SCALE

NOTE:
RIPRAP PAD MUST BE INSTALLED WITH FILTER FABRIC (AMOCO OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.

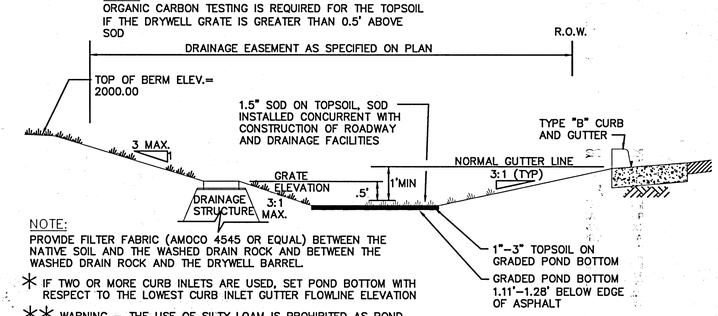
POND BOTTOM LOCATION TABLE (CALISPEL COURT STATION & OFFSET)		
POINT	STATION	OFFSET
A	10+39.66	17.68' LT
B	10+69.94	17.56' LT
C	10+68.11	45.46' LT
D	10+68.64	55.54' LT
E	10+59.41	64.08' LT
F	10+55.26	66.93' LT

POND BOTTOM DIMENSION TABLE	
POINTS	LENGTH
A–B	41.78' R=58.46
B–C	28.06'
C–D	10.14'
D–E	22.53'
E–F	10.35'
F–A	56.83'

POND "A"

FINISHED GRADE POND BOTTOM EL=1999.00
POND BOTTOM AREA PROVIDED = 1577 S.F.
POND VOLUME REQ'D = 1723 C.F.
POND VOLUME PROVIDED= 1830 C.F.
MINIMUM BERM ELEV.=2000.00
PERIMETER = 169.7 L.F.
REQUIRED '208' VOLUME = 683 C.F.
PROVIDED '208' VOLUME = 788 C.F.

NOTE:
ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE DRYWELL GRATE IS GREATER THAN 0.5' ABOVE SOD



NOTE:
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.

* IF TWO OR MORE CURB INLETS ARE USED, SET POND BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION

** WARNING – THE USE OF SILTY LOAM IS PROHIBITED AS POND BOTTOM MATERIAL.

TYPICAL "208" POND WITH DRAINAGE STRUCTURE (3)

NOT TO SCALE

NAVD '88 DATUM
SPOKANE COUNTY TBM #82. AN 'X' ON THE SOUTHERN BOLT OF A FIRE HYDRANT AT THE NORTHEASTERN QUADRANT OF WEIPERT DRIVE AND SIERRA WAY.
NAVD 88 ELEVATION = 1989.97

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

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SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1924
DATE ACCEPTED: 5/26/04
ACCEPTANCE EXPIRES: 5/26/06
PROJECT LANE MILES PUBLIC: 0.1
PROJECT LANE MILES PRIVATE: 0
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

DEVELOPER'S APPROVAL — DATE 4/09/04

P-1924 Eng Cod. Drainage

CLC ASSOCIATES
707 WEST 7TH AVENUE
SUITE 200
SPOKANE
WASHINGTON 99204
P 509 458 6840
F 509 458 6844
CLCASSOC.COM
ARCHITECTURE
ENGINEERING PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

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STREET AND STORM DRAINAGE PLANS

NORTH PARK WEST
DETAIL SHEET
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM — STATE OF WASHINGTON — 39236 — REGISTERED PROFESSIONAL ENGINEER — 4-8-04

EXPIRES 6/14/05

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
11/14/03	ORIGINAL PREPARATION

STREET DETAILS

PROJECT #S030106
DRAWN BY: DCJ
DESIGNED BY: AKF
CHECKED BY: MLK

NORTH PARK WEST
EROSION CONTROL PLAN
SE 1/4 SEC. 19, T.26 N., R.43 E., W.M.,
SPOKANE COUNTY, WASHINGTON

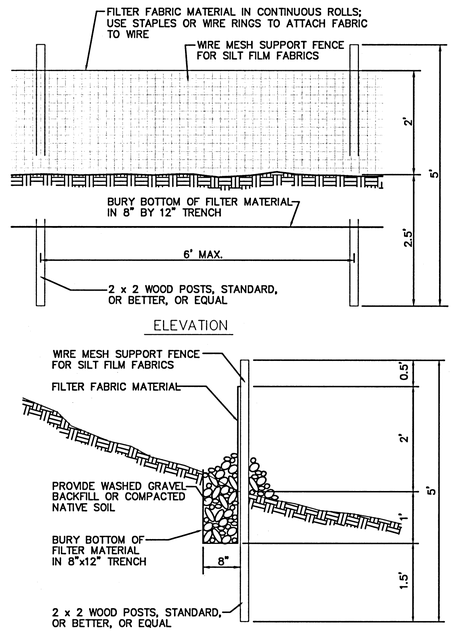
LEGEND

STORM DRAINAGE POND – NO CONCRETE TRUCK WASHOUT. SEE GENERAL NOTES 4 AND 7.

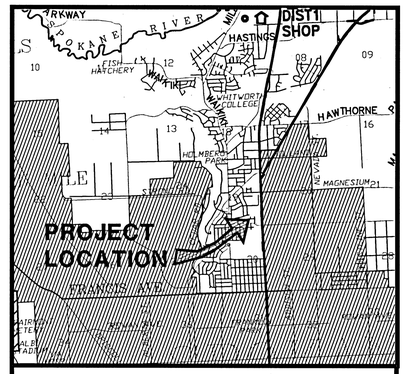
STORM DRAINAGE STRUCTURE – NO CONCRETE TRUCK WASHOUT. SEE GENERAL NOTES 4 AND 7.

SILT FENCE. SEE DETAIL 1 AND GENERAL NOTE 5.

ROCK CONSTRUCTION ENTRY. SEE DETAIL 2 AND GENERAL NOTE 6.



SILT FENCE DETAIL (1)
NOT TO SCALE



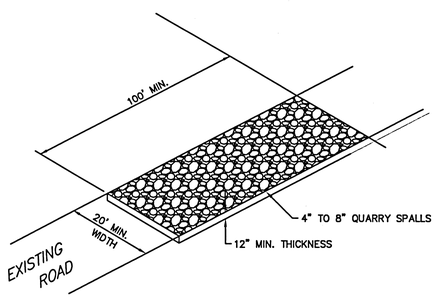
VICINITY MAP

TABLE OF CONTENTS

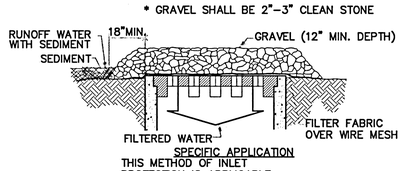
EROSION CONTROL COVER SHEET ..... SHEET 1
EROSION CONTROL PLAN ..... SHEET 2

LEGAL DESCRIPTION

NORTH PARK WEST IS LOCATED IN THE SOUTHEAST ONE–QUARTER OF SECTION 19, TOWNSHIP 26 NORTH, RANGE 43 EAST, W M , IN SPOKANE COUNTY, WASHINGTON



ROCK CONSTRUCTION ENTRY (2)
NOT TO SCALE



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED ACRES

GRAVEL AND WIRE MESH INLET SEDIMENT FILTER (3)
NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1924
DATE ACCEPTED: 5/26/04
ACCEPTANCE EXPIRES: 5/26/06
PROJECT LANE MILES PUBLIC: 0.1
PROJECT LANE MILES PRIVATE: 0
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.

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

CERTIFICATION STATEMENT I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL PLAN MEETS THE E.S.C. REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT

MARK L. KRIGBAUM, P E

DEVELOPER'S APPROVAL — DATE 4/09/04

NAVD '88 DATUM
SPOKANE COUNTY TBM #82 AN 'X' ON THE SOUTHERN BOLT OF A FIRE HYDRANT AT THE NORTHEASTERN QUADRANT OF WEIPERT DRIVE AND SIERRA WAY
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EROSION & SEDIMENT CONTROL

GENERAL NOTES AND INFORMATION

1. AN EROSION/SEDIMENT CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE **ESC PLAN**, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE **ESC** FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY **SPOKANE COUNTY**, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY **SPOKANE COUNTY**, WHICHEVER IS LATER.

2. APPROVAL OF THE **ESC PLAN** DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE **ESC PLAN**.

3. THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE E.S.C. MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT–LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.

4. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS, CATCH BASINS AND INLETS UNTIL SUCH TIME THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.

5. THE SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE, SEE DETAIL 1.

7. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA.

8. PROPERTY OWNER: PARAS CONSTRUCTION, 509–535–8377
PERMIT APPLICANT: PARAS CONSTRUCTION
CONTACT PERSON ON SITE: GEORGE PARAS 509–535–8377

9. PROJECT LOCATION: SE ¼ SEC 19, T 26 N., R 43 E., W.M.

10. PROJECT DESCRIPTION: NORTH PARK WEST IS A RESIDENTIAL SUBDIVISION CONSISTING OF 9 LOTS AND WILL REQUIRE CONSTRUCTION OF WATER, ROADWAY, AND STORM DRAINAGE. THE IMPROVEMENTS CONSIST OF APPROXIMATELY 205 LF OF ROADWAY.

11. DESCRIPTION OF E.S.C. MEASURES: USE OF SILT FENCES AND ROCK CONSTRUCTION ENTRANCES. ALL E.S.C. MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER YARDS ARE LANDSCAPED.

12. EXISTING VEGETATION: FIELD GRASS AND BRUSH

13. PLAN PREPARATION DATE: MARCH 2004

14. SOILS: ON SITE SOILS INCLUDE MARBLE LOAMY COURSE SAND (MbC).

15. STABILIZATION OF DENUDED AREAS:
ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30–45 DAYS SHALL BE SEEDED WITH A FAST STARTING NATIVE DRYLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUAL, AT A RATE OF 60 lbs/ACRE.

16. CONTROL OF POLLUTANTS
ANY SPILLS WILL BE HANDLED ACCORDING TO D.O.E. AND D.O.H. GUIDELINES.

17. SEED MIX:
EXCAVATION AND EMBANKMENT BANKS AND ALL DISTURBED AREAS WILL REQUIRE STABILIZATION WITH HYDROSEEDING METHODS. THE SEED MIXTURE SHALL CONSIST OF THE FOLLOWING GRASS SPECIES:

15% ELKA PERENNIAL RYE
25% DURAN HARD FESCUE
45% COVAR SHEEP / FESCUE
15% REUBENS CANADIAN BLUEGRASS

GRASS SEED: 90 LBS. / ACRE
FERTILIZER: 16–16–16 TIMED RELEASE AT 300 LBS. / ARCES

18. ALL SEEDING OF SLOPES SHALL BE PERFORMED IN ACCORDANCE WITH W.S.D.O.T. STANDARD SPECIFICATIONS SECTION 8–01, AND APPENDIX "E" OF THE SPOKANE COUNTY GUIDELINES FOR STROMWATER MANAGEMENT.

MAINTENANCE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF THE TEMPORARY E.S.C MEASURES.

2. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF–PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC SHALL BE ACCOMPLISHED PROMPTLY.

4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF–PRODUCING RAINFALL. DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.

5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE E.S.C. STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

6. ALL TEMPORARY AND PERMANENT E.S.C. PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

7. ALL TEMPORARY E.S.C. MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING SWEEPING AND WATER TO WASH THE CONSTRUCTION DEBRIS FROM THE STREET.

9. ON–SITE DUST CONTROL SHALL BE ACCOMPLISHED BY USING WATER. APPLICATIONS OF WATER MAY BE REQUIRED SEVERAL TIMES PER DAY DURING CONSTRUCTION ACTIVITY.

P-1924 Eros Cont-Drainage

CLC ASSOCIATES
707 WEST 7TH AVENUE
SUITE 200
SPOKANE
WASHINGTON 99204
P 509 458 6840
F 509 458 6844
CLCASSOC.COM
ARCHITECTURE
ENGINEERING PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

EROSION CONTROL PLANS
NORTH PARK WEST
EROSION CONTROL COVER SHEET
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 39236, 4-9-04

EXPIRES 6/14/05
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
03/04/04	ORIGINAL PREPARATION

PROJECT #S030106
DRAWN BY: LDR
DESIGNED BY: AKF
CHECKED BY: MLK

EROSION CONTROL

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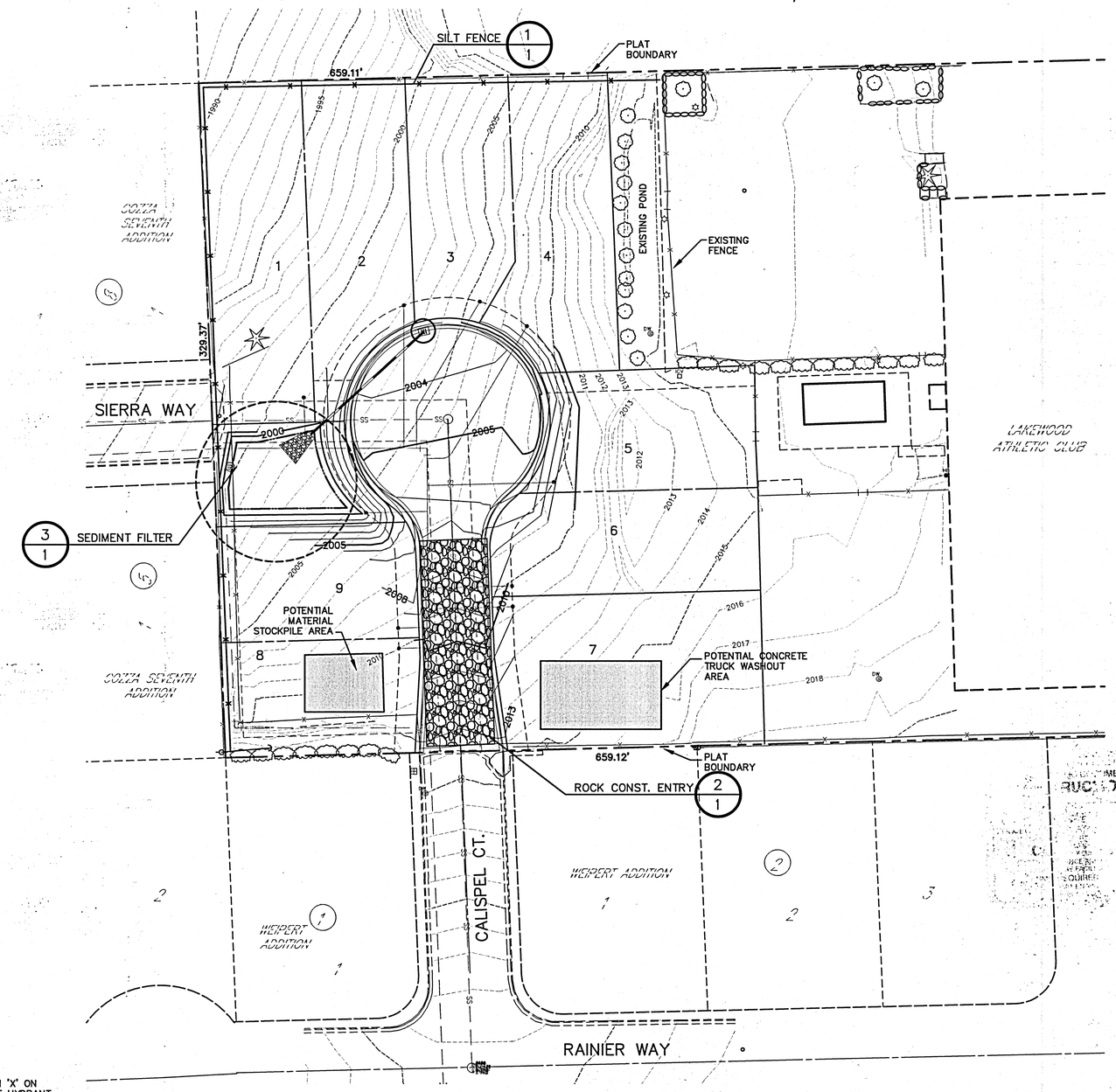
NORTH PARK WEST
EROSION CONTROL PLAN
SE 1/4 SEC. 19, T.26 N., R.43 E., W.M.,
SPOKANE COUNTY, WASHINGTON



LEGEND

STORM DRAINAGE POND – NO CONCRETE TRUCK WASHOUT. SEE GENERAL NOTES 4 AND 7.

STORM DRAINAGE STRUCTURE – NO CONCRETE TRUCK WASHOUT. SEE GENERAL NOTES 4 AND 7.

SILT FENCE. SEE DETAIL 1 AND GENERAL NOTE 5.

ROCK CONSTRUCTION ENTRY. SEE DETAIL 2 AND GENERAL NOTE 6.

NOTES

1. THE PROPOSED GRADING CONTOURS ARE APPROXIMATE ONLY AND SHOULD NOT BE UTILIZED FOR FINAL GRADING OF THE PROJECT.
2. GRADING OF THE PROJECT MAY NOT RESULT IN BALANCED QUANTITITES OF EXCAVATION AND EMBANKMENT.
3. INDIVIDUAL LOT GRADING WILL BE COMPLETED ON A LOT BY LOT BASIS AS HOMES ARE CONSTRUCTED.

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NORTH 30' 0 15' 30'
SCALE: 1" = 30'-0"

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P-1924 Eng Road + Drainage

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NORTH PARK WEST
EROSION CONTROL PLAN
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
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DATE	DESCRIPTION
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EROSION CONTROL

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