STREET AND DRAINAGE PLANS

WINDSOR ESTATES

SPOKANE COUNTY, WASHINGTON

NE 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1·800
424·5555
CALL TWO BUSINESS DAYS
BEFORE YOU DIG

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 THE 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 DESIGNEE OF PROJECT SPONSOR/OWNER.

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 EXISTING UTILITIES. 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 SPOKANE COUNTY AND ALL UTILITY COMPANIES 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. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY SPOKANE COUNTY THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN, IN ACCORDANCE WITH M.U.T.C.D. 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 SAID PLANS. PRIOR TO INSTALLATION AND PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH SPOKANE COUNTY.

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 OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. PER AGENCY STANDARDS 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. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.

14. ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND-DISTURBING ACTIVITY. ALL E.S.C. 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.

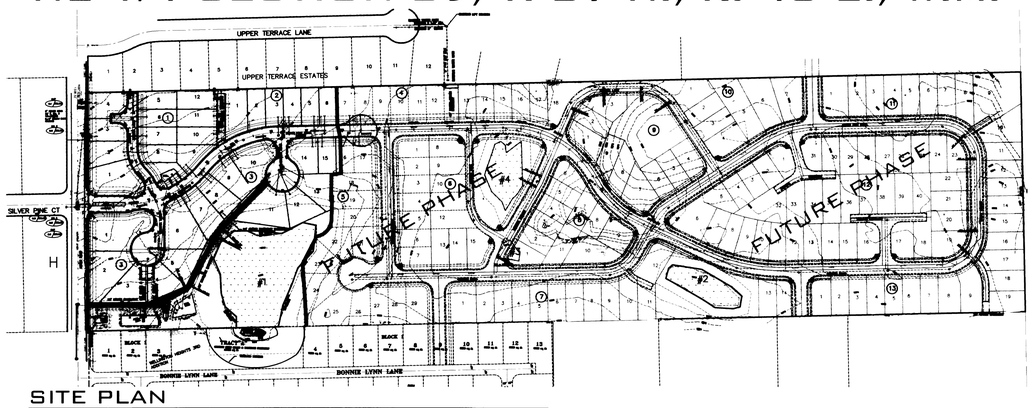
15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL 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.

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. ALL CONSTRUCTION OPERATIONS , 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 TIME PERIOD APPROVED BY SPOKANE COUNTY.

18. BASED ON A REQUIREMENTS FROM SPOKANE COUNTY, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.

19. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL BY THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

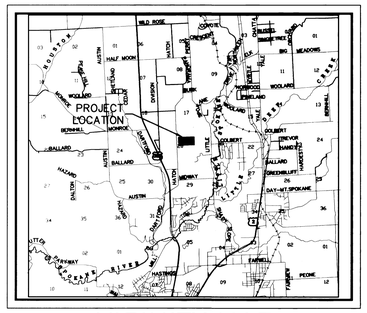


SITE PLAN

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.



VICINITY MAP

LEGEND

EXISTING	GENERAL	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	PAVEMENT	
	GRAVEL	
	CONCRETE	
	BUILDINGS & STRUCTURES	
	MONUMENT	
	SANITARY SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
FH	FIRE HYDRANT	
WS	SERVICE	
WM	METER	
BLOWOFF	BLOWOFF	
AVRS	AIR VACUUM RELIEF STATION	
	STORM DRAINAGE	
	DRAINAGE LINE	
MH	MANHOLE	
DW	DRYWELL	
CB	CATCH BASIN	
	DITCH	
	NATURAL GAS	
G	GAS LINE	
V	VALVE	
GM	METER	
	TELEPHONE - POWER	
BT	BURIED TELEPHONE	
PP	POWER OR TELEPHONE POLE	
BP	BURIED POWER	
TP	TRANSFORMER PAD	
TR	TELEPHONE RISER	
TV	TELEPHONE VAULT	
OP	OVERHEAD POWER	
GA	GUY ANCHOR	
PV	POWER VAULT	
LP	LIGHT POLE	

SEWER
SPOKANE COUNTY UTILITIES
1026 WEST BROADWAY AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-477-3604
FAX: 509-477-4715
CONTACT: BILLY URHAUSEN

BUILDING OFFICIAL
SPOKANE COUNTY
1026 WEST BROADWAY AVE.
SPOKANE, WASHINGTON 99260
PHONE: 509-477-7200
FAX: 509-477-4703
CONTACT: KATHY SANDERS

NATURAL GAS
AVISTA UTILITIES
1411 E. MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-4744
CONTACT: LOIS McCAIN

FIRE DEPARTMENT
FIRE DISTRICT NO. 9
3801 EAST FARWELL ROAD
MEAD, WA 99021
PHONE: 509-466-4602
FAX: 509-466-4698
CONTACT: DAN WALSH

TELEPHONE
QWEST
904 NORTH COLUMBUS
SPOKANE, WA 99202
PHONE: 509-455-2580
FAX: 509-455-2104
CONTACT: DAVE CLARK

POWER
AVISTA UTILITIES
1411 E. MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-8081
CONTACT: DOUG DONOHUE

WATER PURVEYOR
WHITWORTH WATER DISTRICT #2
10828 WAIKIKI ROAD
SPOKANE, WA 99218
PHONE: 509-466-0550
FAX: 509-467-1830
CONTACT: DOUG BABIN

CABLE
COMCAST BROADBAND
1717 EAST BUCKEYE
SPOKANE, WA 99207
PHONE: 509-484-4931 EXT.53254
CONTACT: JOEL BROST

SOLID WASTE
WASTE MANAGEMENT
SPOKANE, WASHINGTON
PHONE: 509-466-3400

SURVEYOR-PRELIM
PAT MOORE AND ASSOCIATES, P.S.
1428 WEST MANSFIELD AVENUE
SPOKANE, WA 99205
PHONE: 509-328-1224
FAX: 509-328-3191
CONTACT: PAT J. MOORE, P.L.S.

SURVEYOR-CONST.
LANDTEK, LLC
619 NORTH MADELIA STREET
SPOKANE, WASHINGTON 99202
PHONE: 509-926-2821
FAX: 509-926-2736
CONTACT: BRUCE R. LARSEN, P.L.S.

ENGINEER
WHIPPLE CONSULTING ENGINEERS
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-893-2617
FAX: 509-926-0227
CONTACT: CRAIG MACPHEE, P.E.

OWNER
PAKIBA
601 S. DIVISION
SPOKANE, WA 99201
PHONE: 509-455-8883
CONTACT: BRIAN BALCH

INSPECTION
ALLWEST
1010 N. LAKE ROAD
SPOKANE, WA 99212
PHONE: 509-534-4411
FAX: 509-534-9326
CONTACT: PAUL T. NELSON P.E.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

FIRE DISTRICT CERTIFICATION STATEMENT

Fire District No. 9 has approved this street plan for WINDSOR ESTATES. This plan is in conformance with our requirements and will satisfy our needs in providing an adequate water system and facilities for fire protection purposes to all sites in the above named project.

Signature Title Date

ABBREVIATIONS

SS.....SANITARY SEWER	PI.....POINT OF INTERSECTION	STA.....STATION
WM.....WATER MAIN	PC.....POINT OF CURVE	G.....GRADE
MH.....MANHOLE	PT.....POINT OF TANGENCY	GB.....GRADE BREAK
EXIST.....EXISTING	PRC.....POINT OF REVERSE CURVE	I.E.....INVERT ELEVATION
CO.....SEWER CLEANOUT	CT.....COURT	RIM .EL.....RIM ELEVATION
HYD.....HYDRANT	RD.....ROAD	DIA.....DIAMETER
RT.....RIGHT	LN.....LANE	SI.....STREET INTERSECTION
LT.....LEFT	STA. L.....STATION LENGTH	BDRY.....BOUNDARY
CI.....CURB INLET	ACT L.....ACTUAL LENGTH	

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.

INDEX TO PLAN SHEETS

SHEET NO. 1 COVER SHEET AND NOTES
SHEET NO. 2 NOTES AND STREET SECTIONS
SHEET NO. 3 STREET DETAILS
SHEET NO. 4 HATCH ROAD WIDENING PLAN AND PROFILE
SHEET NO. 5 SILVER PINE ROAD PLAN AND PROFILE
SHEET NO. 6 COOPER LANE AND CULDESAC PLAN AND PROFILE
SHEET NO. 7 DAKOTA LANE PLAN AND PROFILE
SHEET NO. 8 PRIVATE DRIVE PLAN AND PROFILE
SHEET NO. 9 INTERSECTION DETAILS
SHEET NO. 10 POND DETAILS
SHEET NO. 10A MAINTENANCE ROAD PLAN AND PROFILE
SHEET NO. 11 DRAINAGE DETAILS
SHEET NO. 12 DRAINAGE DETAILS
SHEET NO. 13 DRAINAGE DETAILS
SHEET NO. 14 EROSION CONTROL PLAN
SHEET NO. 15 EROSION CONTROL DETAILS

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM - (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1"=200'
VERTICAL: N/A

PROJ #: 2004-63
DATE: 10/6/06
DRAWN: GFR
APPROVED: CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
COVER SHEET
SPOKANE COUNTY, WASHINGTON

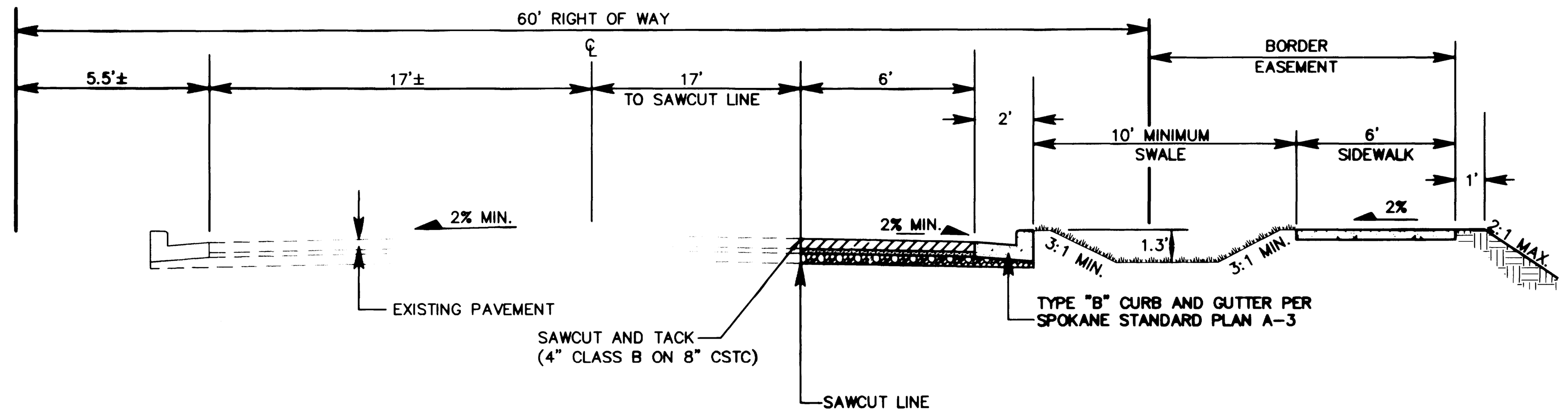
SHEET 1 OF 15

JOB NUMBER 2004-63

CRAIG A. MACPHEE — STATE OF WASHINGTON — 13395 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/23/07

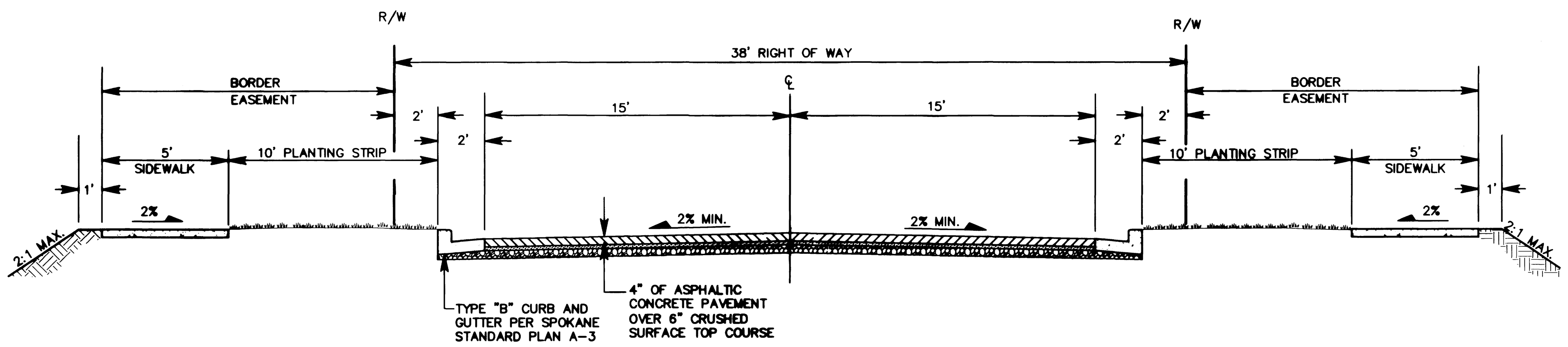
P-1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.



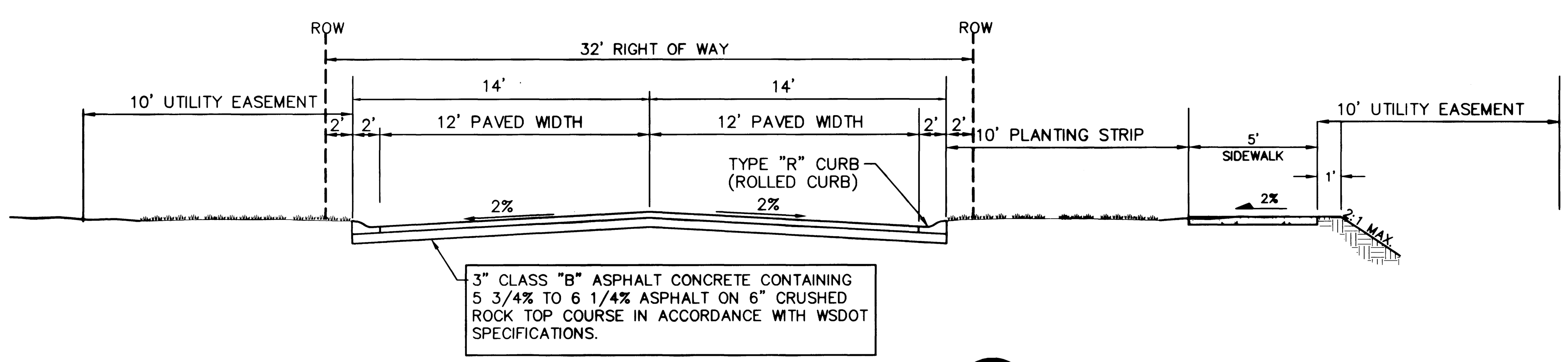
HATCH ROAD WIDENING SECTION (A)

NOT TO SCALE



SILVER PINE ROAD TYPICAL SECTION (B)

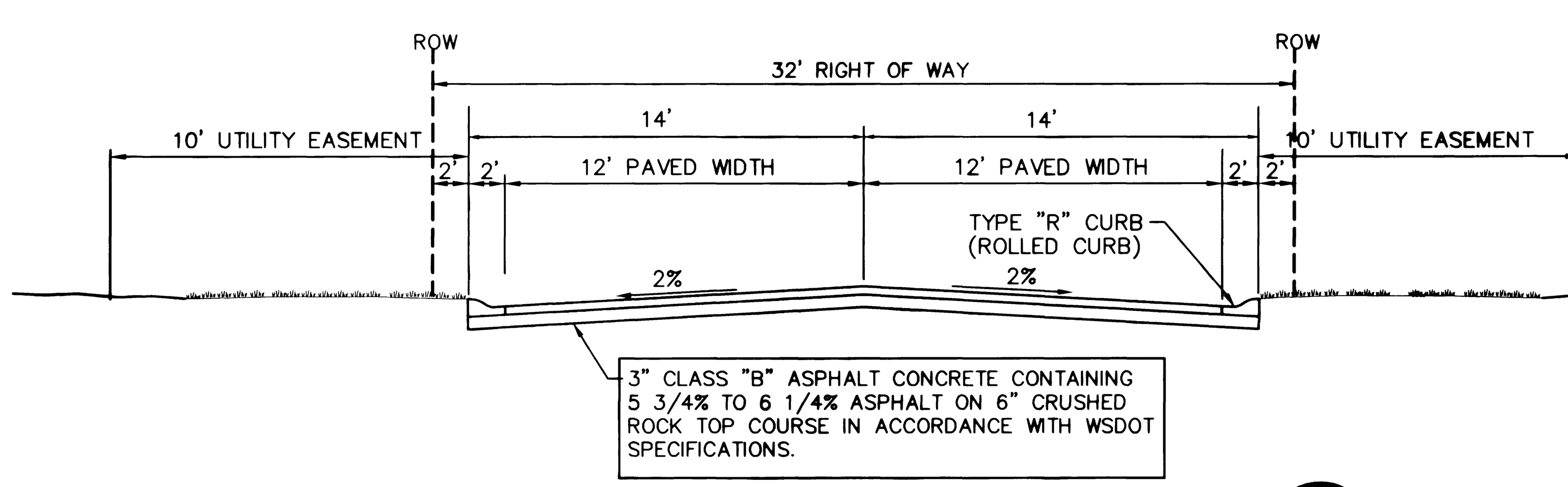
NOT TO SCALE



PRIVATE STREET TYPICAL SECTION (C)

NOT TO SCALE

DAKOTA LN STA. 11+38.29 TO 14+50.59



PRIVATE STREET TYPICAL SECTION (D)

NOT TO SCALE

DAKOTA LN STA. 10+00 TO 11+38.29
COOPER LN STA. 1+00 TO 2+20.55

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, CURRENT EDITION", 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, TODD R WHIPPLE, P.E., @ 893-2617, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, ALLWEST, PAUL T. NELSON, P.E., @ 534-4411 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.

6. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUAL, 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 OUT THE DRYWELL OR CATCH BASIN 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 NOTES

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

2. SWALES SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL SWALES WITHIN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SHALL CONFORM TO THE SPOKANE COUNTY SWALE IRRIGATION SYSTEM GUIDELINES.

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

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

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS, BETWEEN DRAINROCK AND NATIVE SOIL. SEE SPOKANE COUNTY STANDARDS (2001 EDITION) SHEET B-1a FOR INSTALLATION LOCATIONS.

6. ALL SWALES 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 SWALE GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE SWALES 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' SWALES) ARE TO BE IRRIGATED BY AN 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.

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).

SLEEVING:

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 (G.P.A.) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDE SLOPES OF THE SWALE UP TO THE G.P.A. OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE G.P.A. 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 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 A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1·800 424·5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

CRAIG A. M... STATE OF WASHINGTON ... 1395 PROFESSIONAL ENGINEER
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM - (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

[signature] DEVELOPER'S APPROVAL — 10/5/06 DATE

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE: HORIZONTAL: N/A VERTICAL: N/A

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

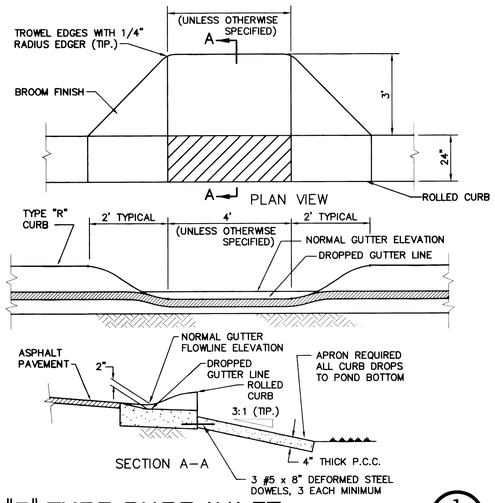
STREET PLAN AND PROFILE
WINDSOR ESTATES
NOTES AND STREET SECTIONS
SPOKANE COUNTY, WASHINGTON

SHEET 2 OF 15
JOB NUMBER 2004-63

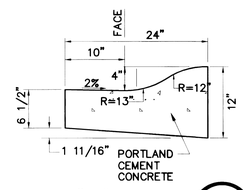
P1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

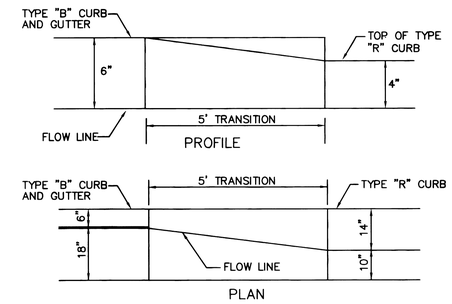
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1·800
424·5555
CALL TWO BUSINESS DAYS
BEFORE YOU DIG



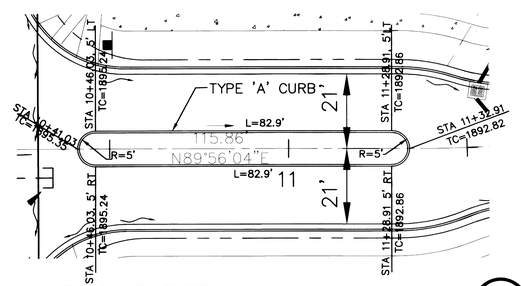
"R" TYPE CURB INLET — 1 / -
NOT TO SCALE



TYPE "R" CURB — 2 / -
NOT TO SCALE



"B" TO "R" CURB TRANSITION — 3 / -
NOT TO SCALE



ISLAND DETAIL — 4 / -
1" = 20'

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

COUNTY PROJECT # - PN-1953-05

EXPIRES 7/23/07

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395–202 & 523.24 M–NAVD88 (CALCULATED 1716.67 FT)

Mike Hum — DEVELOPER'S APPROVAL — 10/5/06 DATE

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

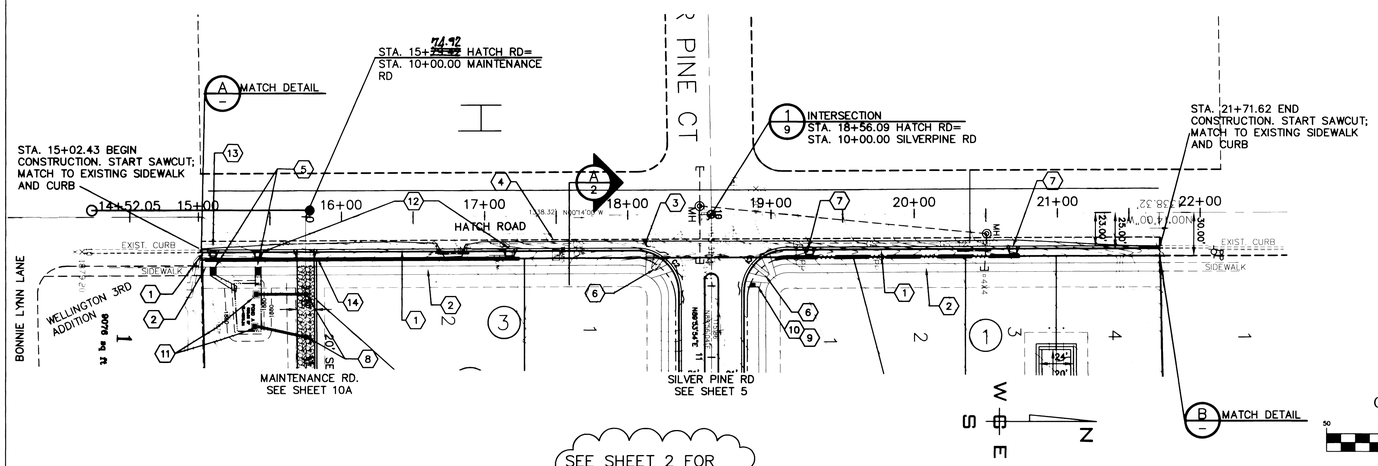
WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
STREET DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET 3 OF 15
JOB NUMBER 2004-63

P1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.



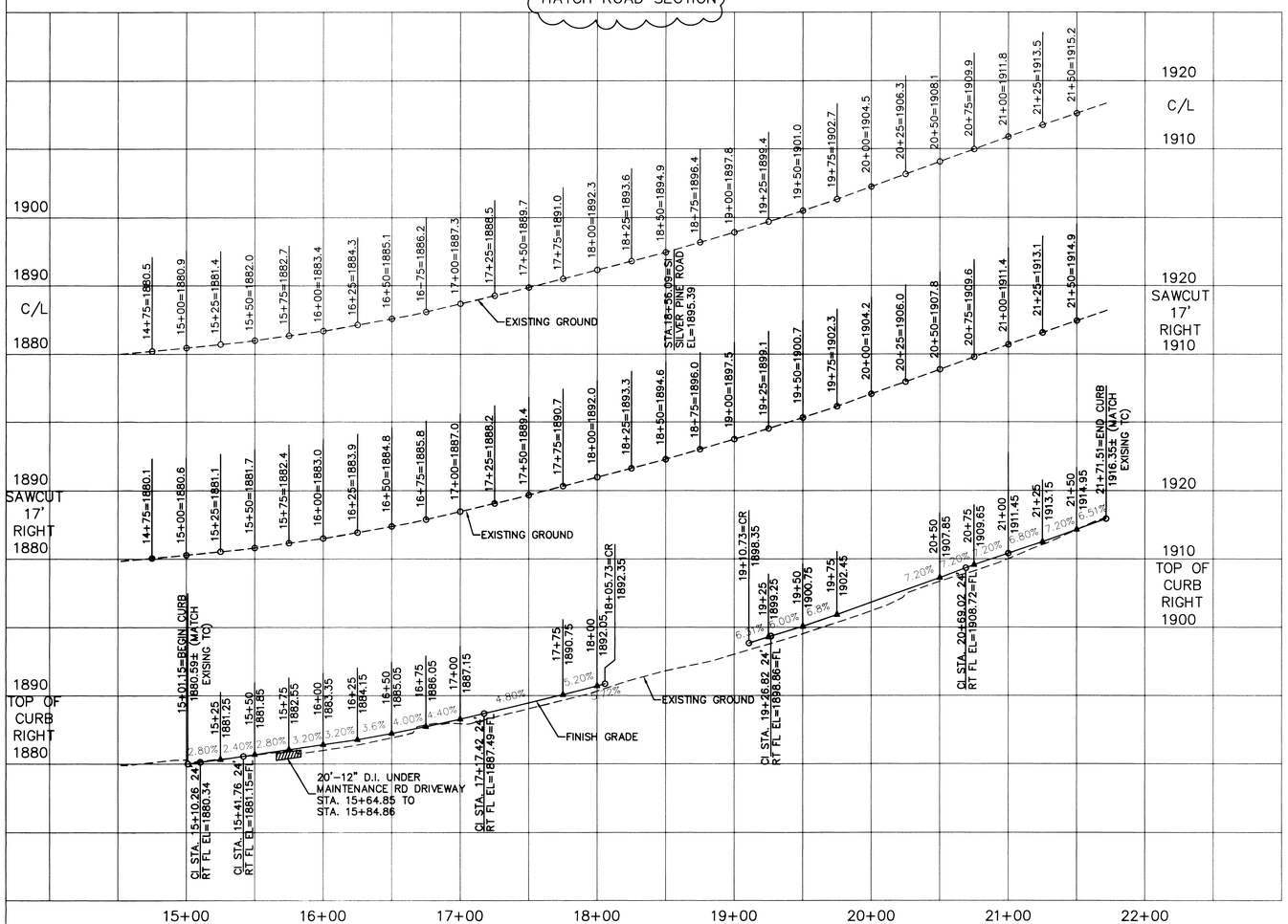
SEE SHEET 2 FOR HATCH ROAD SECTION

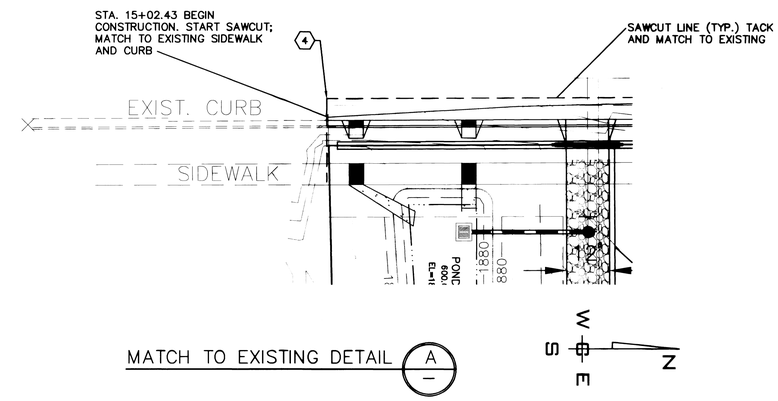
CONSTRUCTION NOTES

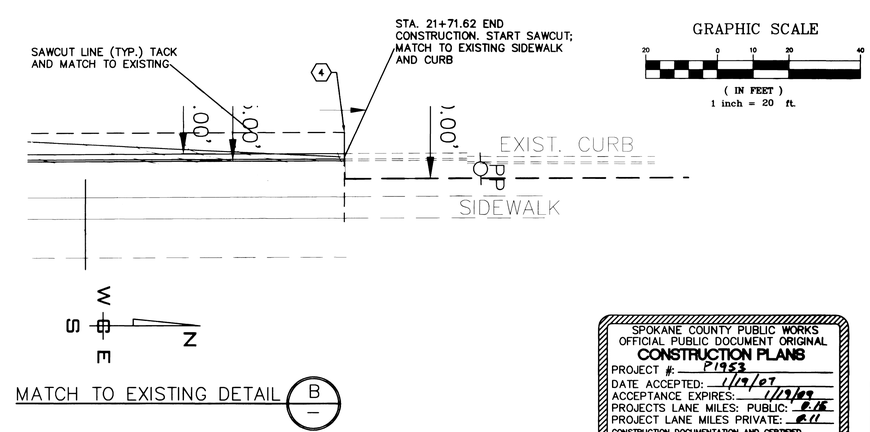
1. PROVIDE AND INSTALL "B" TYPE CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. PROVIDE AND INSTALL 6' WIDE CEMENT CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
3. PROVIDE ROAD WIDENING PER HATCH ROADWAY SECTION, SEE SHEET 2 DETAIL A.
4. SAWCUT AND REMOVE 2' OF EXISTING PAVEMENT.
5. PROVIDE AND INSTALL SIDEWALK INLET TYPE "2" PER SPOKANE COUNTY STANDARD PLAN B-9.
6. PROVIDE AND INSTALL CURB RAMP DESIGN "A" PER SPOKANE COUNTY STANDARD PLAN A-5.
7. PROVIDE AND INSTALL 5' CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8.
8. PROVIDE AND INSTALL TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a WITH SOLID LID.
9. INSTALL INTERSECTION STREET NAME SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
10. INSTALL STOP SIGN PER M.U.T.C.D.
11. PROVIDE AND INSTALL CONCRETE INLET TYPE "2" WITH TYPE 2 METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLAN B-5, B-11, B-13. SEE DETAIL 1 SHEET 3.
12. PROVIDE AND INSTALL 6' CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8.
13. PROVIDE AND INSTALL 4' CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8.
14. PROVIDE AND INSTALL 20 L.F.±, 12" D.I. CULVERT PIPE UNDER MAINTENANCE ROAD.

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

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA ANGLE
C1	49.38'	30.00'	44.48'	89°49'12"
C2	49.58'	30.00'	44.62'	90°10'48"







SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.16
PROJECT LANE MILES PRIVATE: 0.11
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) 477-3900
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

COUNTY PROJECT # - PN-1953-05

CRAIG A. MAGEE — STATE OF WASHINGTON — 41395 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/23/07

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL TO SPOKANE COUNTY
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=10'

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

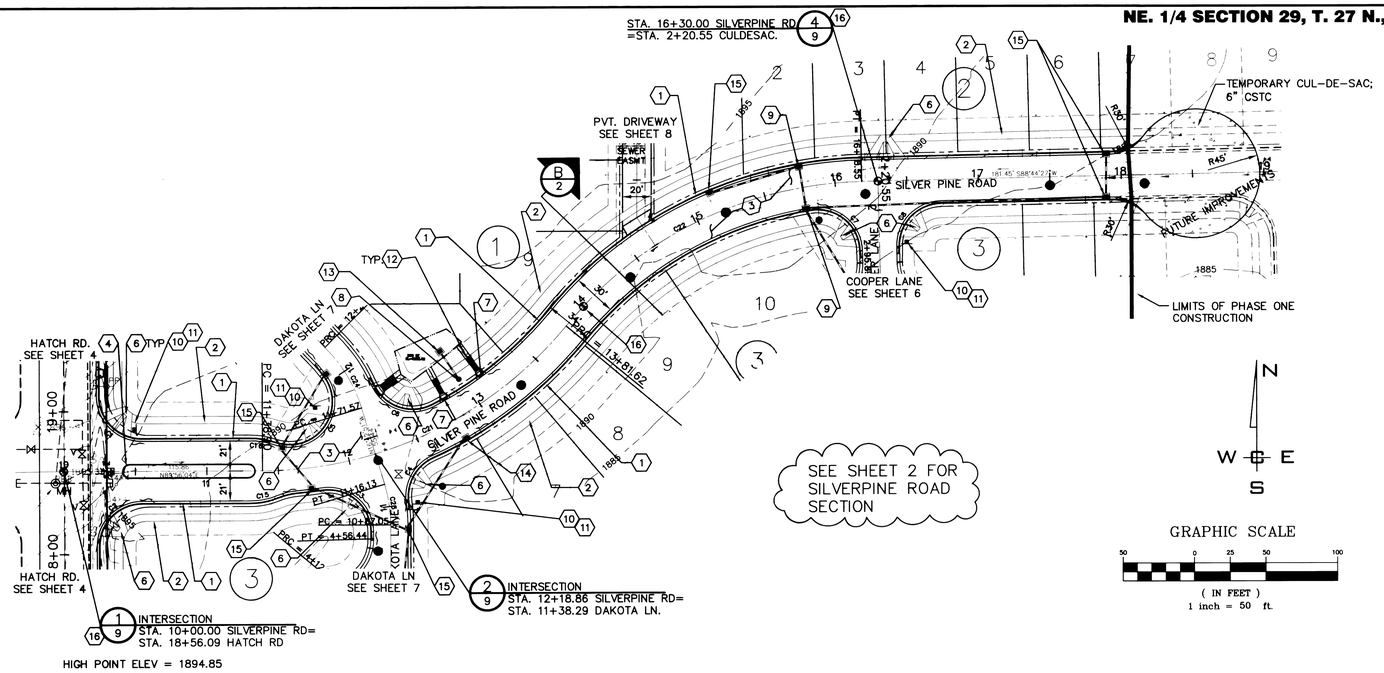
WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2526 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
HATCH ROAD STA. 15+02.43 TO 21+71.62
SPOKANE COUNTY, WASHINGTON

SHEET 4 OF 15
JOB NUMBER 2004-63

P-1953 Eng Road Drawings

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

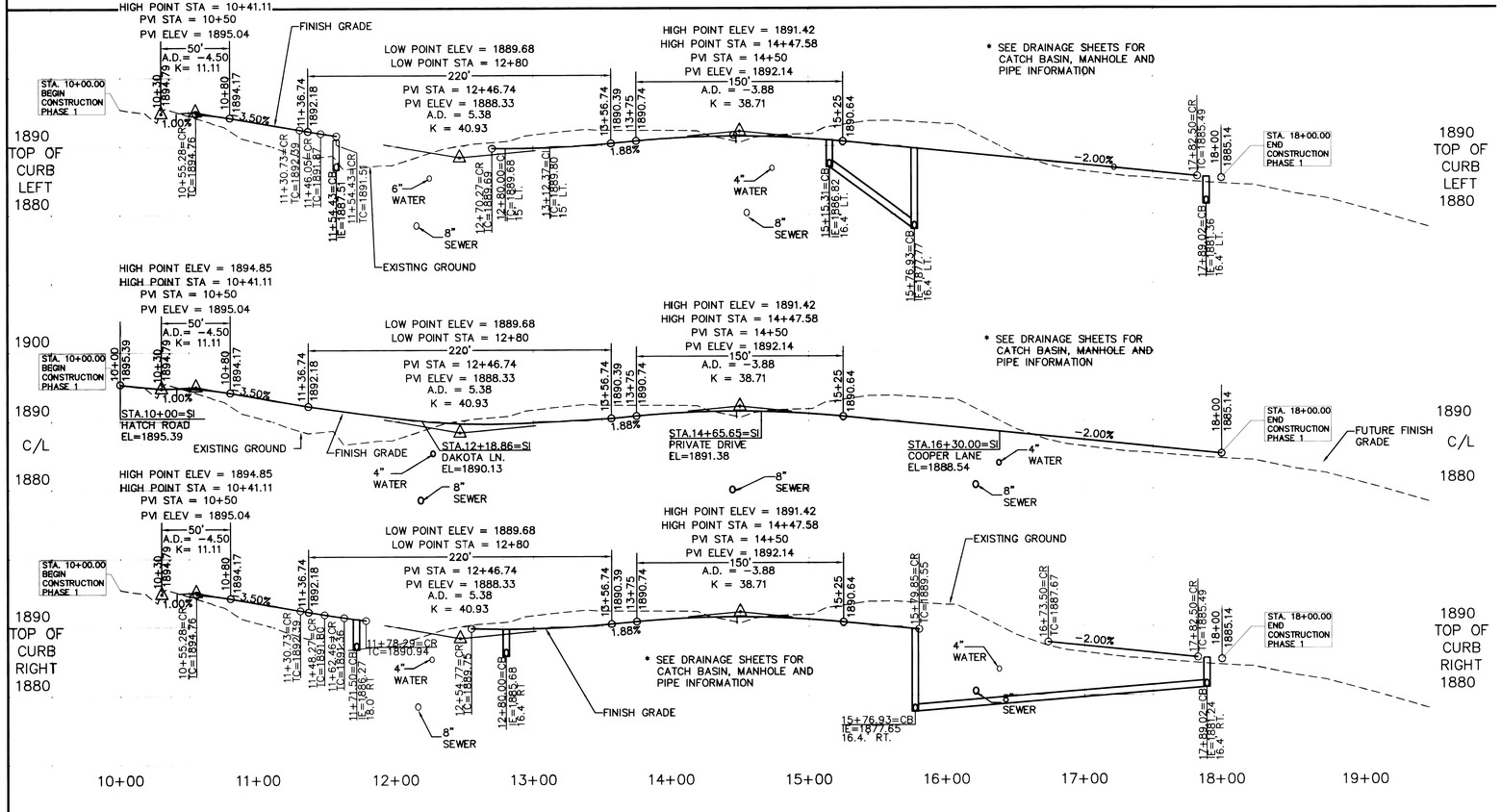


CONSTRUCTION NOTES

1. PROVIDE AND INSTALL "B" TYPE CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. PROVIDE AND INSTALL 5' CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
3. PROVIDE AND INSTALL PAVEMENT PER SECTION, SHEET 2 INSTALL SWALES WERE INDICATED ON PLAN VIEW
4. PROVIDE AND INTALL ISLAND PER SHEET 3 DETAIL 4.
5. NOT USED.
6. PROVIDE AND INSTALL CURB RAMP DESIGN "A" PER SPOKANE COUNTY STANDARD PLAN A-5.
7. PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STD PLAN B-8 WITH GUTTER PAN TO SIDEWALK INLET. SEE SHEET 11 FOR INLET WIDTHS
8. PROVIDE AND INSTALL TYPE "B" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a WITH TYPE 4 FRAME AND SOLID LID PER SPOKANE COUNTY STANDARD PLAN B-15.
9. PROVIDE AND INSTALL WSDOT CATCH BASIN TYPE 2-48" WITH METAL FRAME AND GRATE PER WSDOT STANDARD PLANS B-1E, B-2A AND B-2B.
10. INSTALL INTERSECTION STREET NAME SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
11. INSTALL STOP SIGN PER M.U.T.C.D.
12. PROVIDE AND INSTALL SIDEWALK INLET TYPE "2" PER SPOKANE COUNTY STANDARD PLAN B-9.
13. PROVIDE AND INSTALL CONCRETE INLET TYPE "2" WITH TYPE "2" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-6, B-11, B-13.
14. PROVIDE AND INSTALL CATCH BASIN TYPE "1" WITH TYPE "2" METAL FRAME AND TYPE "3" GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-11 AND B-14.
15. PROVIDE AND INSTALL CATCH BASIN TYPE "1" WITH TYPE "1" METAL FRAME AND TYPE "1" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-10 AND B-12.
16. PROVIDE AND INSTALL MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.

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

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA ANGLE
C1	49.38'	30.00'	44.48'	89°49'12"
C2	49.58'	30.00'	44.62'	90°10'48"
C3	53.99'	30.00'	47.62'	98°12'26"
C4	40.61'	30.00'	37.85'	73°51'27"
C5	74.34'	30.00'	58.25'	135°12'54"
C6	51.58'	30.00'	46.01'	93°49'42"
C7	53.91'	30.00'	47.57'	98°03'46"
C8	49.48'	30.00'	44.55'	90°00'00"
C15	18.59'	48.50'	18.47'	21°57'21"
C16	15.07'	48.50'	15.01'	17°48'29"
C21	242.72'	275.00'	234.92'	50°34'14"
C22	236.93'	275.00'	229.67'	49°21'52"
C23	29.08'	100.00'	28.98'	16°39'40"
C24	50.03'	100.00'	49.51'	28°39'47"



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.13
PROJECT LANE MILES PRIVATE: 0.11
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

CRAIG A. MAY STATE OF WASHINGTON 41395 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=10'

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

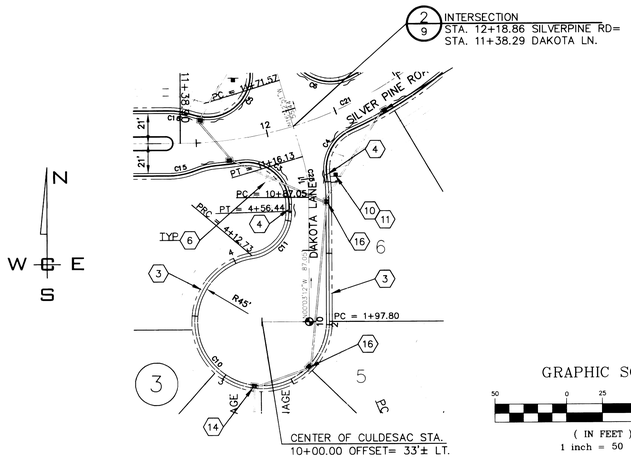
WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

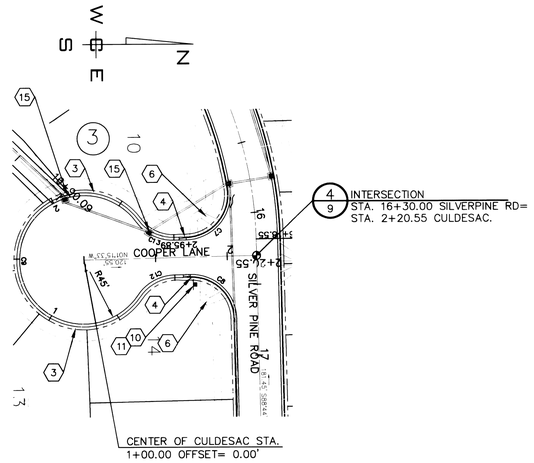
STREET PLAN AND PROFILE
WINDSOR ESTATES
SILVER PINE ROAD STA. 10+00 TO 18+00
SPOKANE COUNTY, WASHINGTON

SHEET 5 OF 15
JOB NUMBER 2004-63

P-1953 Eng/Land Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.





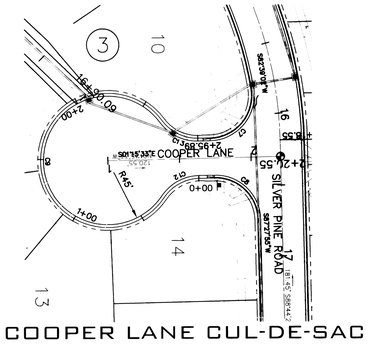
CONSTRUCTION NOTES

1. NOT USED.
2. NOT USED
3. PROVIDE AND INSTALL TYPE "R" CURB PER SHEET 3 DETAIL 2.
4. PROVIDE AND INSTALL 5' TRANSITION FROM "B" TYPE CURB TO TYPE "R" CURB PER SHEET 3 DETAIL 3.
5. NOT USED.
6. PROVIDE AND INSTALL CURB RAMP DESIGN "A" PER SPOKANE COUNTY STANDARD PLAN A-5.
7. PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STD PLAN B-8. SEE SHEET 11 FOR INLET WIDTHS
8. NOT USED.
9. NOT USED.
10. INSTALL INTERSECTION STREET NAME SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
11. INSTALL STOP SIGN PER M.U.T.C.D.
12. NOT USED.
13. NOT USED.
14. PROVIDE AND INSTALL CATCH BASIN TYPE "1" WITH TYPE "2" METAL FRAME AND TYPE "3" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-11 AND B-14.
15. PROVIDE AND INSTALL WSDOT CATCH BASIN TYPE 2-45" WITH METAL FRAME AND GRATE PER WSDOT STANDARD PLANS B-1E, B-2A AND B-2B..
16. PROVIDE AND INSTALL CATCH BASIN TYPE "1" WITH TYPE "2" METAL FRAME AND TYPE "1" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-10 AND B-12.

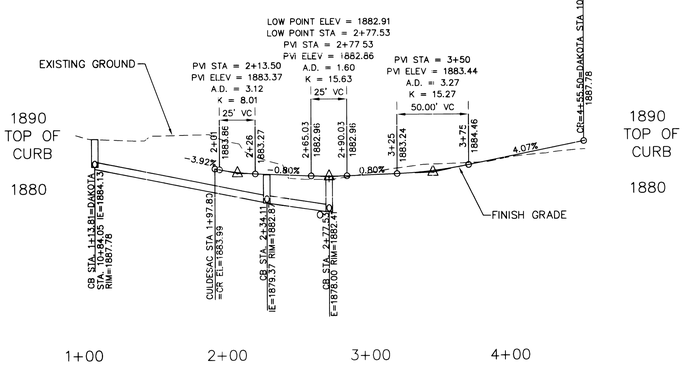
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CURVE TABLE

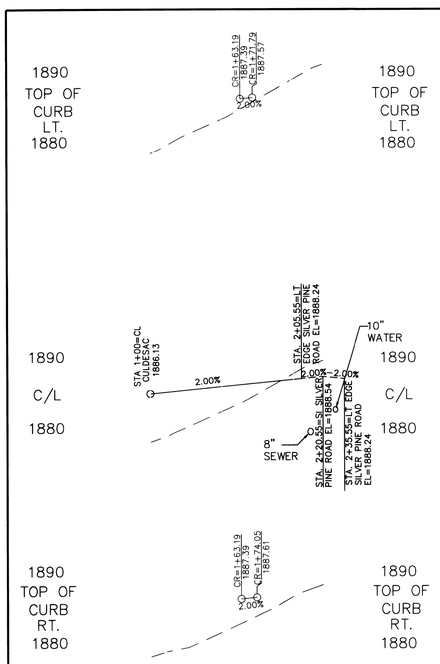
CURVE	LENGTH	RADIUS	CHORD	DELTA ANGLE
C3	53.99'	30.00'	47.62'	98°12'26"
C4	40.61'	30.00'	37.85'	73°51'27"
C5	74.34'	30.00'	58.25'	135°12'54"
C6	51.58'	30.00'	46.01'	93°49'42"
C7	53.91'	30.00'	47.57'	98°03'46"
C8	49.48'	30.00'	44.55'	90°00'00"
C9	228.00'	45.00'	51.43'	290°18'01"
C10	205.65'	45.00'	68.01'	261°50'24"
C11	45.68'	32.00'	41.90'	81°47'12"
C12	30.80'	32.00'	29.63'	55°09'00"
C13	30.80'	32.00'	29.63'	55°09'00"
C15	18.59'	48.50'	18.47'	21°57'21"
C16	15.07'	48.50'	15.01'	17°48'29"
C21	242.72'	275.00'	234.92'	50°34'14"
C23	29.08'	100.00'	28.98'	16°39'40"



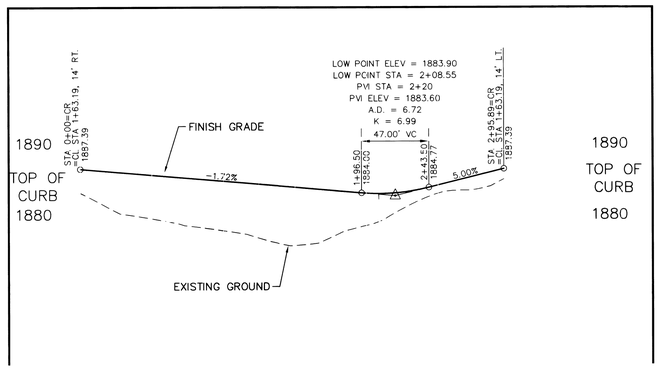
COOPER LANE CUL-DE-SAC



DAKOTA LANE CUL-DE-SAC TOC



COOPER LANE



COOPER LANE CUL-DE-SAC TOC

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 01/29/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

craig a. mason
state of washington
21395
registered professional engineer
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:	
HORIZONTAL:	1"=50'
VERTICAL:	1"=10'
PROJ #:	2004-63
DATE:	10/05/06
DRAWN:	GFR
APPROVED:	CAM

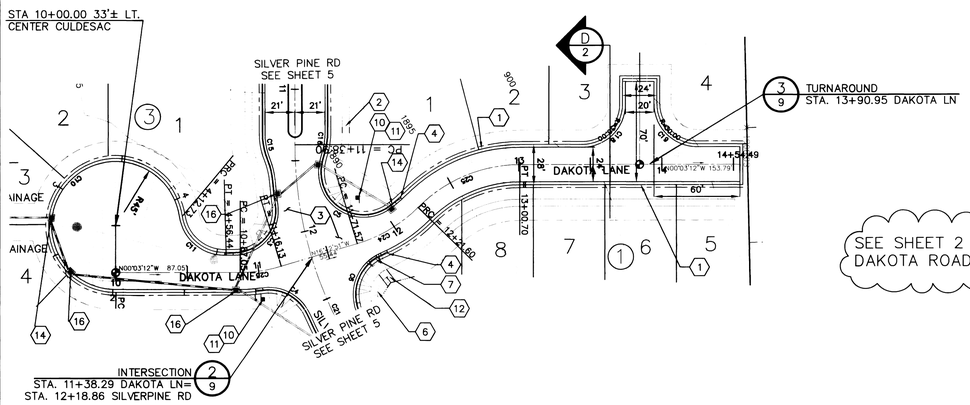
WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH. 509-893-2617 FAX. 509-926-0227

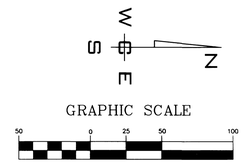
STREET PLAN AND PROFILE
WINDSOR ESTATES
CULDESAC PROFILES
SPOKANE COUNTY, WASHINGTON

SHEET 6 OF 15
JOB NUMBER 2004-63

P-1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.





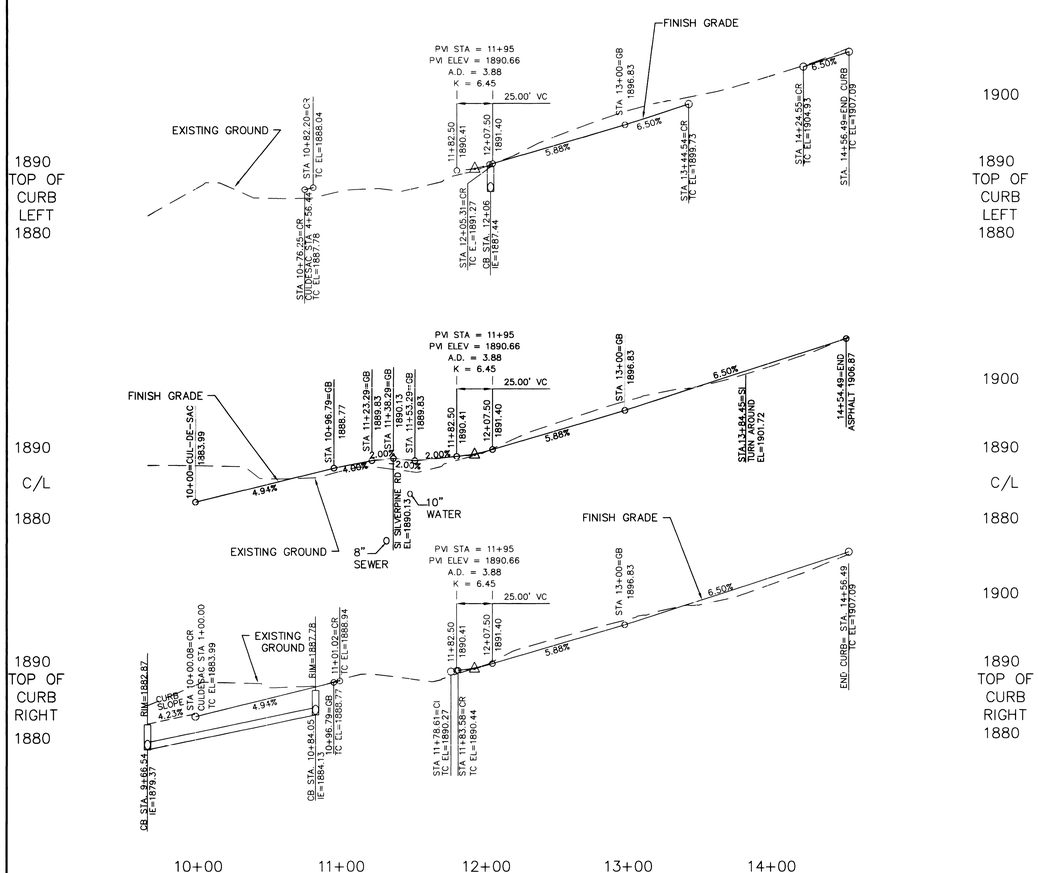
SEE SHEET 2 FOR DAKOTA ROAD SECTION

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL "R" TYPE CURB PER SHEET 3, DETAIL 2.
2. PROVIDE AND INSTALL 5' CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
3. PROVIDE AND INSTALL PAVEMENT PER SECTION, SHEET 2 INSTALL SWALES WERE INDICATED ON PLAN VIEW
4. PROVIDE AND INSTALL 5' TRANSITION FROM TYPE 'B' CURB TO TYPE 'R' CURB PER SHEET 3, DETAIL 3.
5. NOT USED.
6. PROVIDE AND INSTALL CURB RAMP DESIGN "A" PER SPOKANE COUNTY STANDARD PLAN A-5.
7. PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STD PLAN B-8. SEE SHEET 11 FOR INLET WIDTHS
8. NOT USED.
9. NOT USED.
10. INSTALL INTERSECTION STREET NAME SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
11. INSTALL STOP SIGN PER M.U.T.C.D..
12. PROVIDE AND INSTALL SIDEWALK INLET TYPE "2" PER SPOKANE COUNTY STANDARD PLAN B-9.
13. NOT USED.
14. PROVIDE AND INSTALL CATCH BASIN TYPE "1" WITH TYPE "2" METAL FRAME AND TYPE "3" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-11 AND B-14.
15. NOT USED.
16. PROVIDE AND INSTALL CATCH BASIN TYPE "1" WITH TYPE "2" METAL FRAME AND TYPE "1" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-10 AND B-12.

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

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA ANGLE
C3	53.99'	30.00'	47.62'	98°12'26"
C4	40.61'	30.00'	37.85'	73°51'27"
C5	74.34'	30.00'	58.25'	135°12'54"
C6	51.58'	30.00'	46.01'	93°49'42"
C10	205.65'	45.00'	68.01'	261°50'24"
C11	45.68'	32.00'	41.90'	81°47'12"
C15	18.59'	48.50'	18.47'	21°57'21"
C16	15.07'	48.50'	15.01'	17°48'29"
C18	47.12'	30.00'	42.43'	90°00'00"
C19	47.12'	30.00'	42.43'	90°00'00"
C21	242.72'	275.00'	234.92'	50°34'14"
C23	29.08'	100.00'	28.98'	16°39'40"
C24	50.03'	100.00'	49.51'	28°39'47"
C25	79.11'	100.00'	77.06'	45°19'27"



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

COUNTY PROJECT # - PN-1953-05

EXPIRES 7/23/07

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
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--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

PROJ #: 2004-63
DATE: 10/2/06
DRAWN: GFR
APPROVED: CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
DAKOTA LANE STA. 10+00 TO 14+50.95
SPOKANE COUNTY, WASHINGTON

SHEET 7 OF 15
JOB NUMBER 2004-63

P-1953 Eng/road/drainage

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
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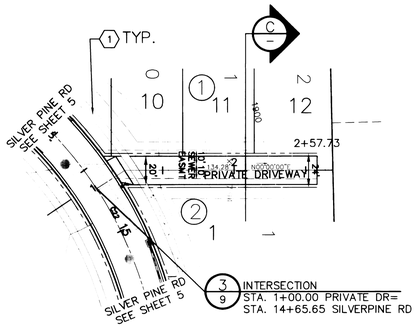
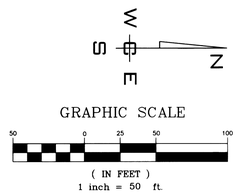
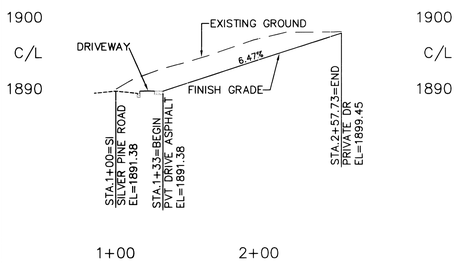
CONSTRUCTION NOTES

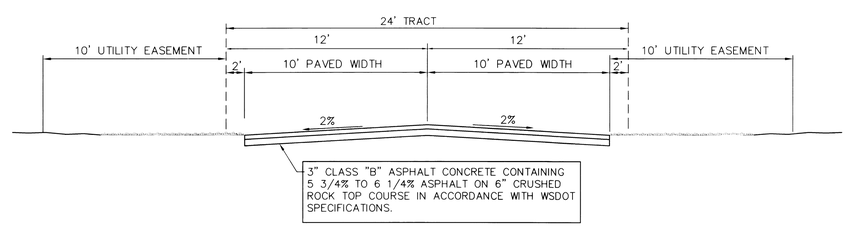
(1) PROVIDE AND INSTALL 5' WIDE CEMENT CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.





CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA ANGLE
C22	236.93'	275.00'	229.67'	49°21'52"





PRIVATE DRIVEWAY TYPICAL SECTION (C)

NOT TO SCALE

PRIVATE DR STA. 1+00 TO STA. 2+57.73

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COUNTY PROJECT # - PN-1953-05

CRAIG A. MACKEY
STATE OF WASHINGTON
41395
PROFESSIONAL ENGINEER
10/05/06
EXPIRES 7/23/07

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395–202 & 523.24 M–NAVD88 (CALCULATED 1716.67 FT)

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--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

PROJ #: 2004-63
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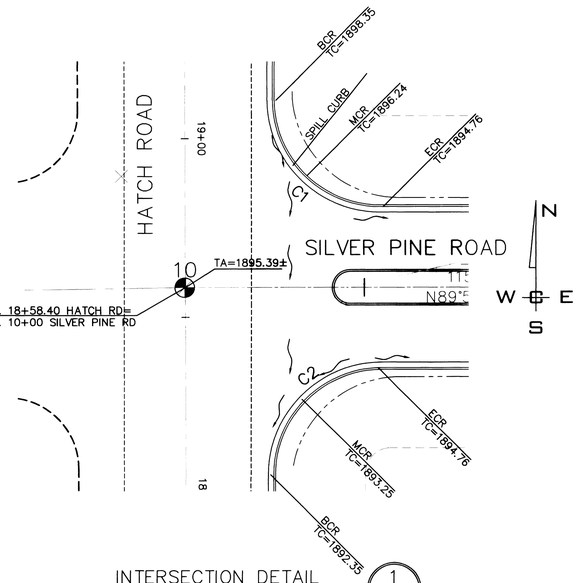
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
PRIVATE DRIVE STA. 1+00.00 TO STA 2+57.73
SPOKANE COUNTY, WASHINGTON

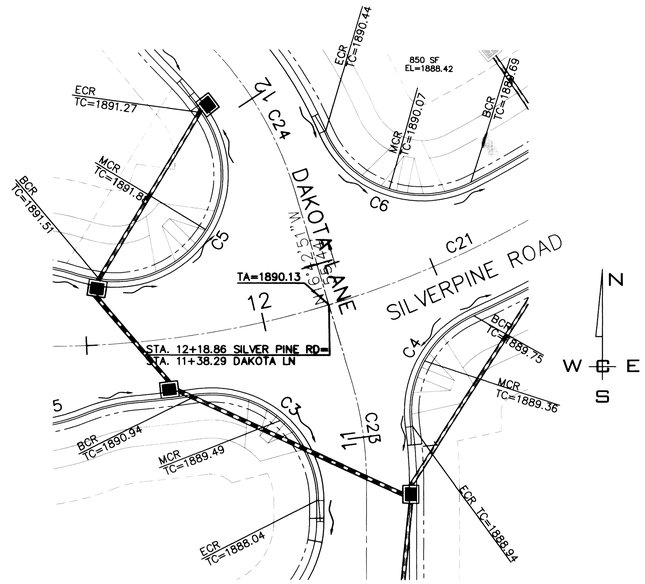
SHEET 8 OF 15
JOB NUMBER 2004-63

P-1953 Eng Road Drainage

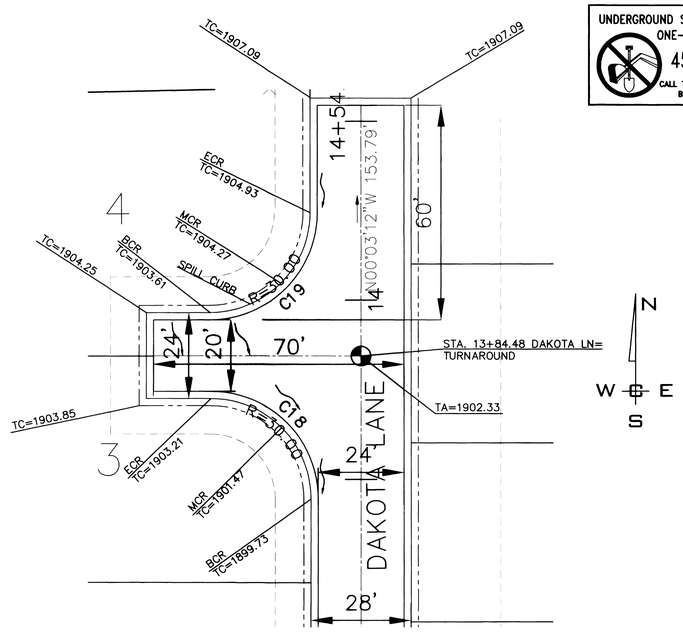
NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.



INTERSECTION DETAIL 1



INTERSECTION DETAIL 2



INTERSECTION DETAIL 3

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

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA ANGLE
C1	49.38′	30.00′	44.48′	89°49′12″
C2	49.58′	30.00′	44.62′	90°10′48″
C3	53.99′	30.00′	47.62′	98°12′26″
C4	40.61′	30.00′	37.85′	73°51′27″
C5	74.34′	30.00′	58.25′	135°12′54″
C6	51.58′	30.00′	46.01′	93°49′42″
C7	53.91′	30.00′	47.57′	98°03′46″
C8	49.48′	30.00′	44.55′	90°00′00″
C12	30.80′	32.00′	29.63′	55°09′00″
C13	30.80′	32.00′	29.63′	55°09′00″
C18	47.12′	30.00′	42.43′	90°00′00″
C19	47.12′	30.00′	42.43′	90°00′00″
C21	242.72′	275.00′	234.92′	50°34′14″
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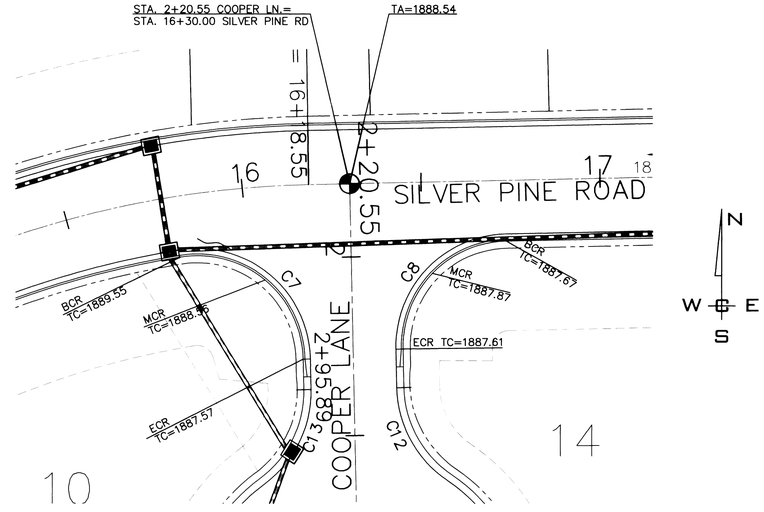

INTERSECTION DETAIL 4

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

SPOKANE COUNTY PUBLIC WORKS
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CRAIG A. MARTIN
STATE OF WASHINGTON
41395
REGISTERED PROFESSIONAL ENGINEER
10/5/06
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
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--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: N/A

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
INTERSECTION DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET 9 OF 15

JOB NUMBER 2004-63

P-1953 Eng Road & Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
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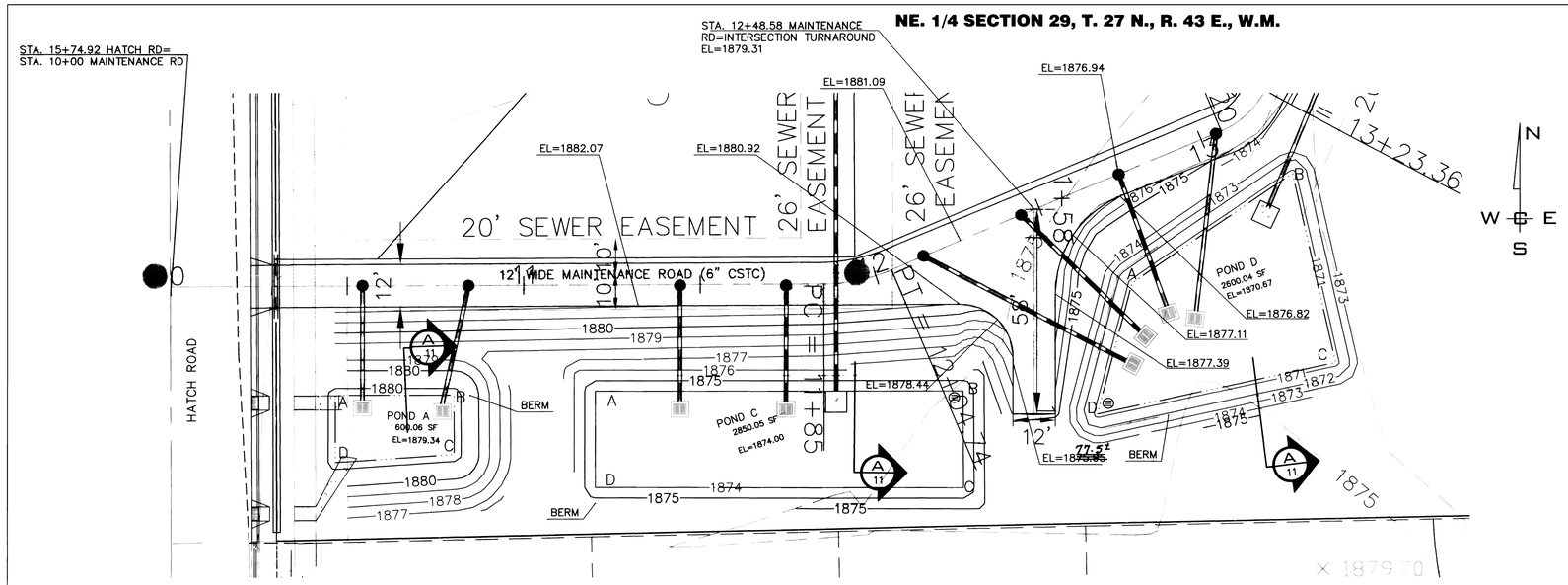
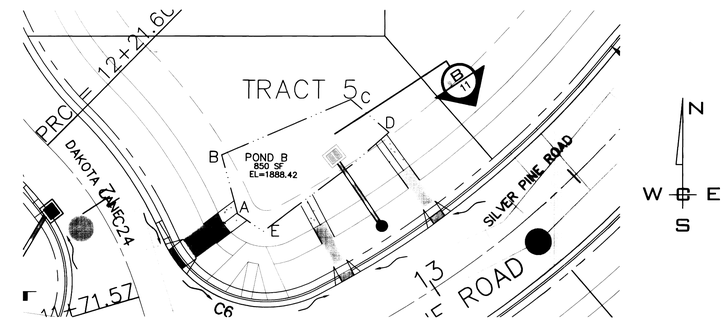


GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



POND "A" BOTTOM LOCATION TABLE ((STREET NAME) STATION & OFFSET)			
POINT	STATION		OFFSET
A	HATCH ROAD	15+43.84	46.71' RT
B	MAINT. ROAD	10+80.11	31.22' RT
C	MAINT. ROAD	10+80.11	47.92' RT
D	HATCH ROAD	15+24.86	46.64' RT

POND "C" BOTTOM LOCATION TABLE ((STREET NAME) STATION & OFFSET)			
POINT	STATION		OFFSET
A	MAINTENANCE ROAD	11+20.20	30.28' RT
B	MAINTENANCE ROAD	12+09.99	39.63' RT
C	MAINTENANCE ROAD	12+02.46	65.09' RT
D	MAINTENANCE ROAD	11+20.09	57.54' RT

POND "D" BOTTOM LOCATION TABLE ((STREET NAME) STATION & OFFSET)			
POINT	STATION		OFFSET
A	MAINTENANCE ROAD	12+66.06	29.92' RT
B	MAINTENANCE ROAD	13+10.77	20.82' RT
C	MAINTENANCE ROAD	13+07.32	73.25' RT
D	MAINTENANCE ROAD	12+42.61	60.43' RT

POND "B" BOTTOM LOCATION TABLE ((STREET NAME) STATION & OFFSET)			
POINT	STATION		OFFSET
A	DAKOTA LANE	11+82.28	33.91' RT
B	DAKOTA LANE	11+94.64	33.89' RT
C	SILVER PINE ROAD	13+12.20	56.78' LT
D	SILVER PINE ROAD	13+15.93	43.04' LT
E	SILVER PINE ROAD	12+63.86	37.78' LT

POND "A"
FINISHED GRADE POND BOTTOM EL=1879.34
POND BOTTOM AREA PROVIDED=600 S.F.
POND BOTTOM AREA REQ'D=600 S.F.
CONCRETE INLET RIM ELEV.=1879.84
POND BOTTOM DEPTH IS 1'
MINIMUM BERM EL=1880.84

POND "C"
FINISHED GRADE POND BOTTOM EL=1874.00
POND BOTTOM AREA PROVIDED=2850 S.F.
POND BOTTOM AREA REQ'D=2850 S.F.
CONCRETE INLET/DRYWELL RIM EL=1874.50
POND BOTTOM DEPTH IS 1.0'
MINIMUM BERM EL=1875.50

POND "D"
FINISHED GRADE POND BOTTOM EL=1870.67
POND BOTTOM AREA PROVIDED=2600 S.F.
POND BOTTOM AREA REQ'D=2600 S.F.
CONCRETE INLET/DRYWELL RIM EL=1871.17
POND BOTTOM DEPTH IS 1.0'
MINIMUM BERM EL=1872.17

POND "B"
FINISHED GRADE POND BOTTOM EL=1888.42
POND BOTTOM AREA PROVIDED=850 S.F.
POND BOTTOM AREA REQ'D=850 S.F.
CONCRETE INLET RIM ELELEV.=1888.92
POND BOTTOM DEPTH IS .80'

POND "A,C AND D" DETAIL — 2
SCALE: 1"=20'

POND "B" DETAIL — 1
SCALE: 1"=20'

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OFFICIAL PUBLIC DOCUMENT ORIGINAL
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

COUNTY PROJECT # - PN-1953-05

STATE OF WASHINGTON — CRAIG A. MACKIE — 41395 — REGISTERED PROFESSIONAL ENGINEER — NOV 1, 2006
EXPIRES 7/23/07

NAVD-88 DATUM
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SCALE: HORIZONTAL: 1"=20' VERTICAL: N/A
PROJ #: 2004-63
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WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

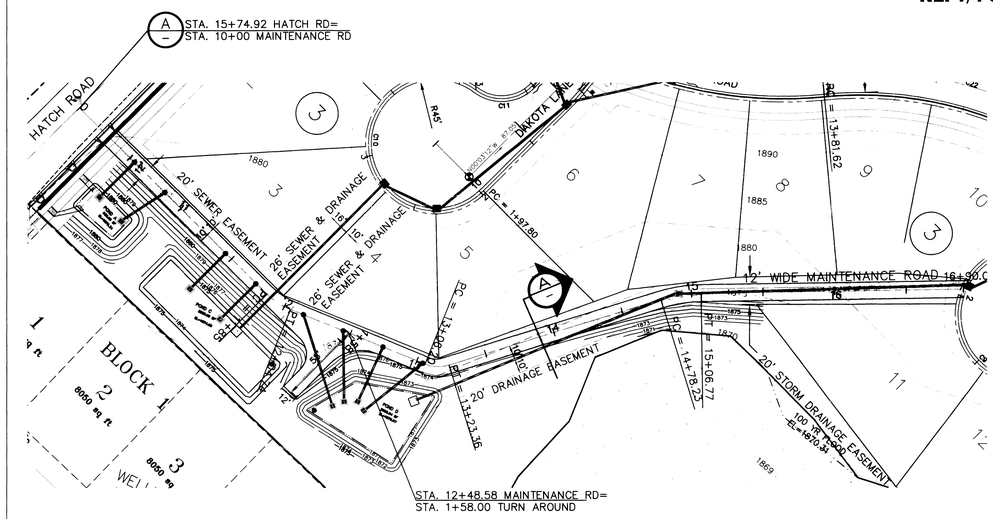
STREET PLAN AND PROFILE
WINDSOR ESTATES
POND DETAILS
SPOKANE COUNTY, WASHINGTON

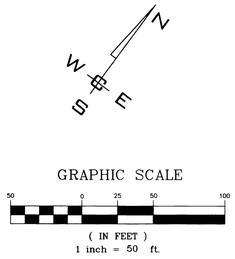
SHEET 10 OF 15
JOB NUMBER 2004-63

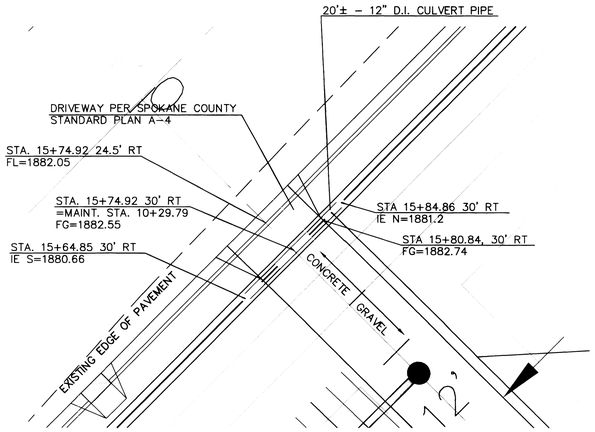
P-1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

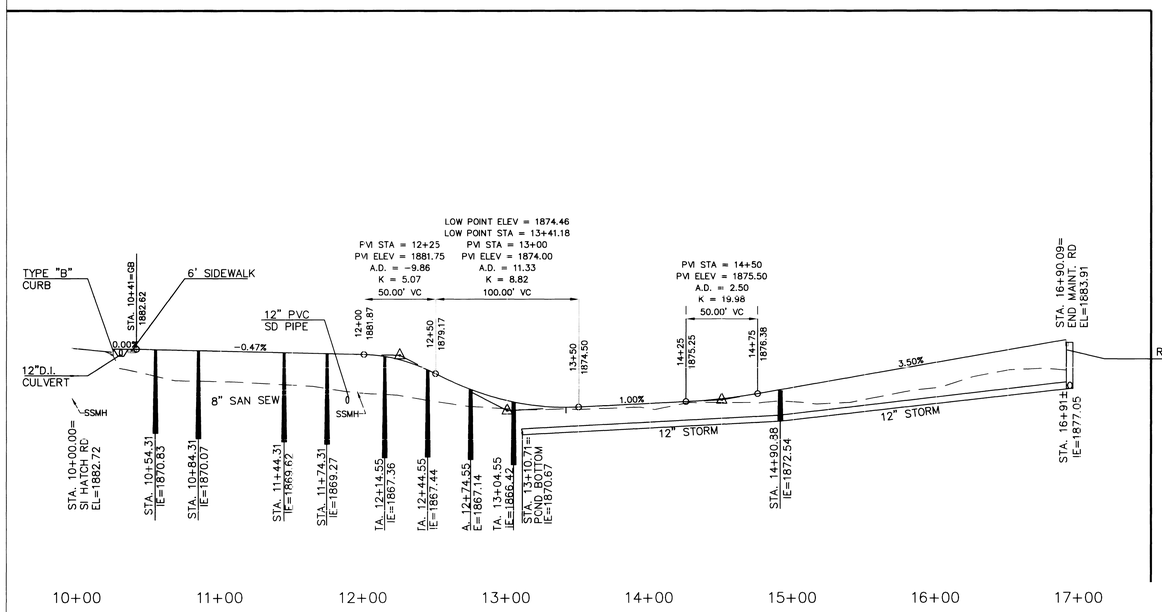
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

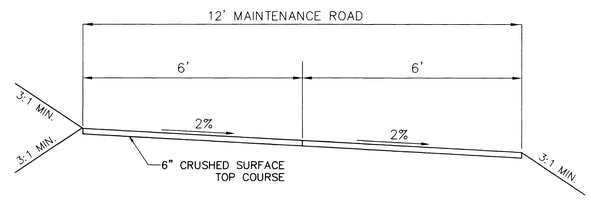






INTERSECTION DETAIL (A)
SCALE: 1"=10'





MAINTENANCE ROAD STA. 10+00.00 TO STA 16+90.09 (A)
NOT TO SCALE

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COUNTY PROJECT # - PN-1953-05

CRAIG A. MACK — STATE OF WASHINGTON — 41395 — REGISTERED PROFESSIONAL ENGINEER
10/5/06
EXPIRES 7/23/07

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SCALE:	PROJ #: 2004-63
HORIZONTAL: 1"=50'	DATE: 10/2/06
	DRAWN: GFR
VERTICAL: 1"=10'	APPROVED: CAM

WCE
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SPOKANE VALLEY, WASHINGTON 99216
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STREET PLAN AND PROFILE
WINDSOR ESTATES
MAINTENANCE RD. STA 10+00.00 TO STA 16+90.09
SPOKANE COUNTY, WASHINGTON

SHEET 10A OF 15
JOB NUMBER 2004-63

P1953 Eng/Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

UNDERGROUND SERVICE ALERT
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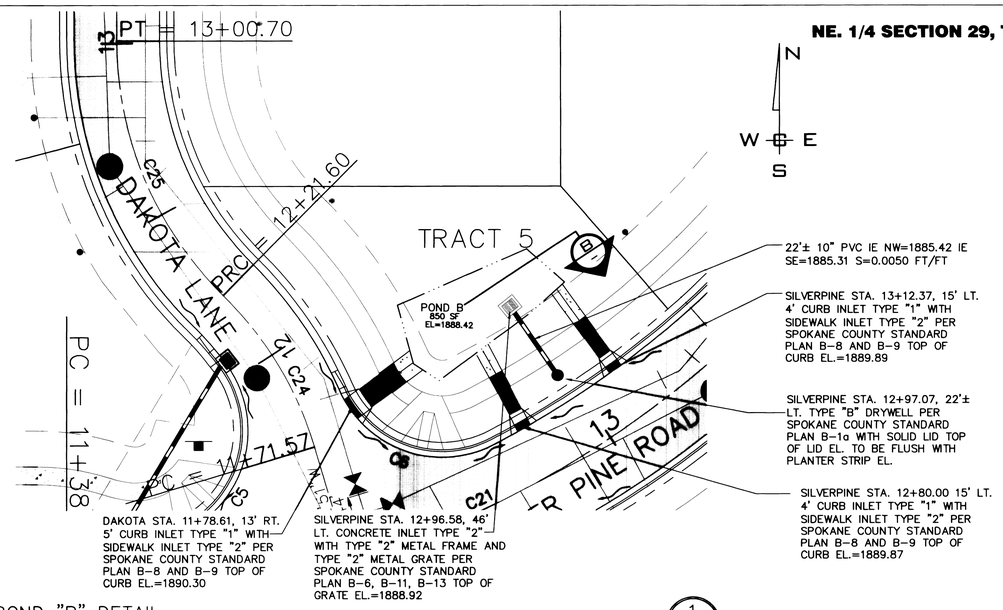
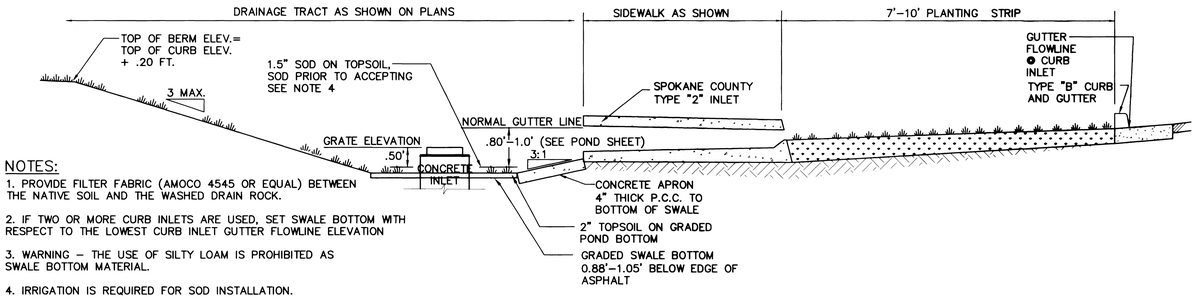


POND "B" DETAIL (1)
SCALE: 1"=20'

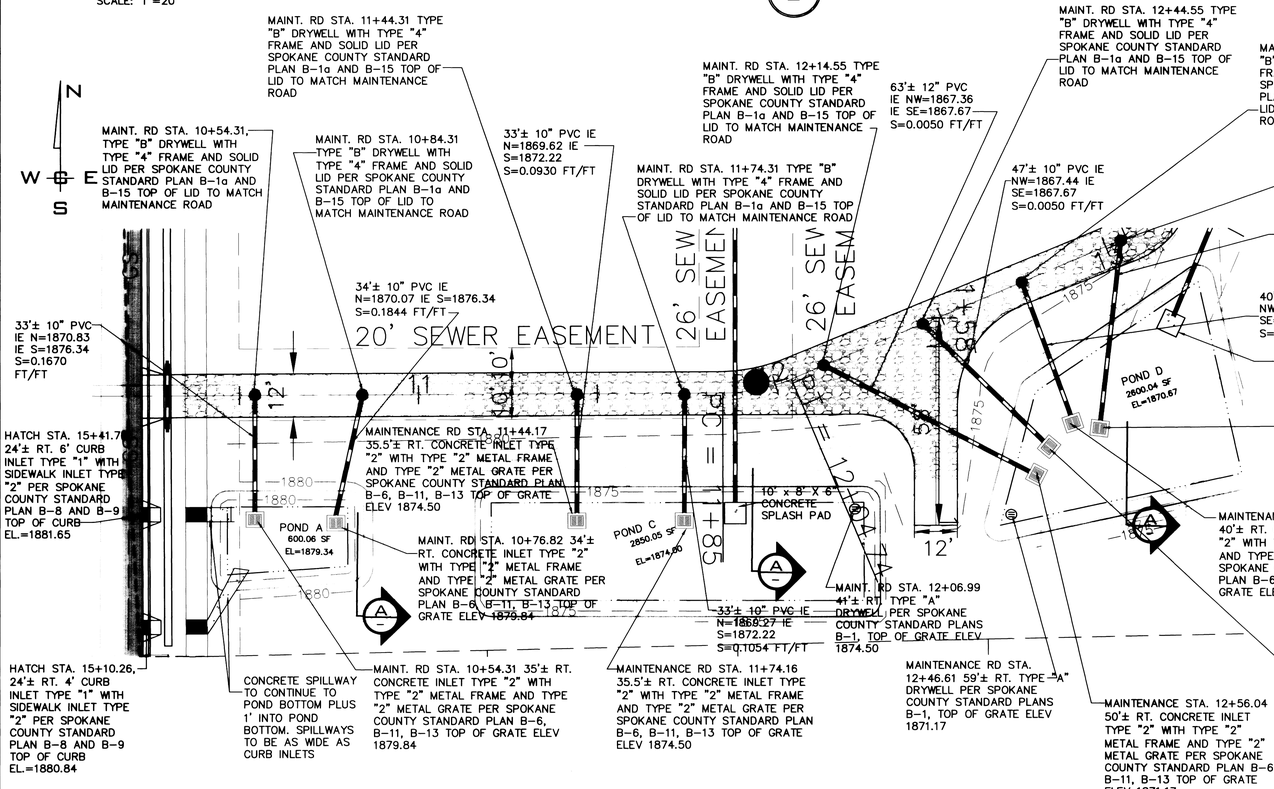
NOTE:
ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE DRYWELL GRATE IS GREATER THAN 0.5' ABOVE SOD



NOTES:

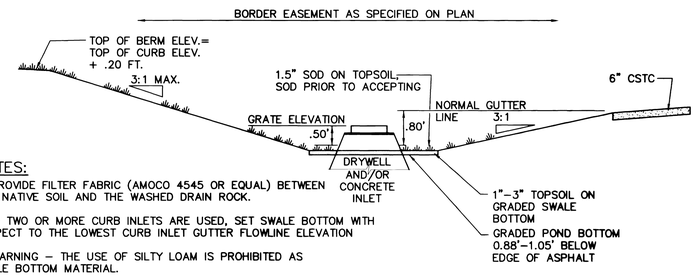
1. PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.
2. IF TWO OR MORE CURB INLETS ARE USED, SET SWALE BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION
3. WARNING – THE USE OF SILTY LOAM IS PROHIBITED AS SWALE BOTTOM MATERIAL.
4. IRRIGATION IS REQUIRED FOR SOD INSTALLATION.

TYPE "B"- CURB-PLANTING STRIP-TYPE 1 & 2 INLET-208 SWALE WITH CONCRETE INLET (B)
NOT TO SCALE



POND "A, C AND D" DETAIL (2)
SCALE: 1"=20'

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



NOTES:

1. PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.
2. IF TWO OR MORE CURB INLETS ARE USED, SET SWALE BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION
3. WARNING – THE USE OF SILTY LOAM IS PROHIBITED AS SWALE BOTTOM MATERIAL.
4. IRRIGATION IS REQUIRED FOR SOD INSTALLATION.

208 SWALE WITH DRYWELL AND/OR CONCRETE INLET (A)
NOT TO SCALE

PLEASE NOTE: DRYWELLS SHALL ALL BE PLACED 30' MIN. APART, ON CENTER

NOTE:

GRASS SEED: PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICAN. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

10 PER CENT	ELKA PERRENIAL RYE
20 PERCENT	DURAR HARD FESCUE
45 PERCENT	COVAR SHEEP/FESCUE
15 PERCENT	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 SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SECTION 8-01.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

COUNTY PROJECT # - PN-1953-05

CRAIG A. MACKAY, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, CERT. NO. 41395
EXPIRES 7/23/07

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

Mike Hume
DEVELOPER'S APPROVAL

10/6/06
DATE

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: N/A

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

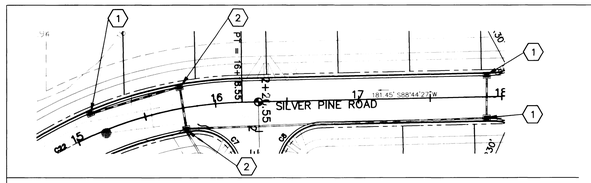
STREET PLAN AND PROFILE
WINDSOR ESTATES
DRAINAGE DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET 11 OF 15
JOB NUMBER 2004-63

P-1953 Eng/Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

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



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W E
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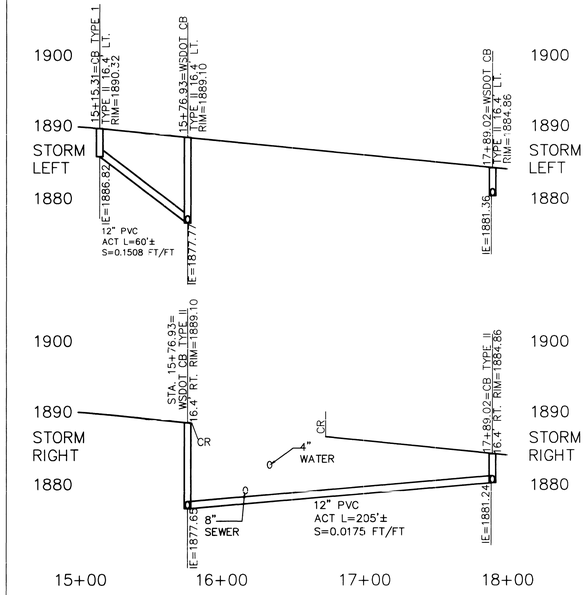
CONSTRUCTION NOTES

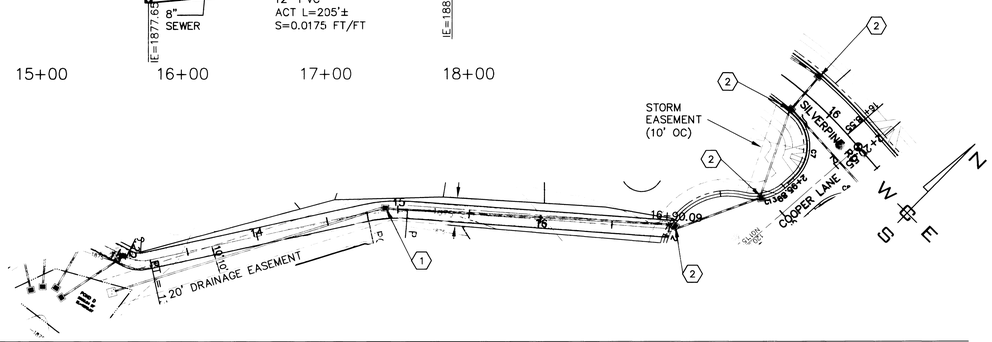
1. PROVIDE AND INSTALL CATCH BASIN TYPE I WITH TYPE I FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-10 AND B-12.
2. PROVIDE AND INSTALL WSDOT CATCH BASIN TYPE II WITH METAL FRAME AND GRATE PER WSDOT STANDARD PLANS B-1E, B-2A AND B-2B.
3. PROVIDE AND INSTALL CATCH BASIN TYPE I WITH TYPE II FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14.

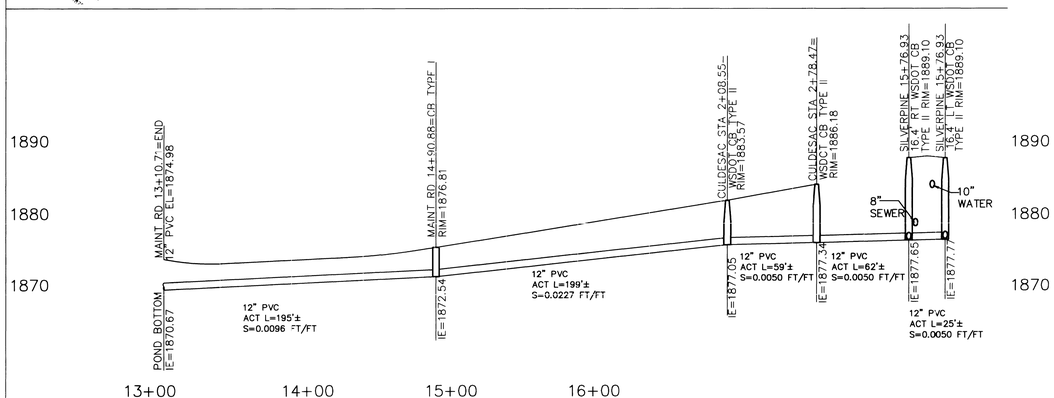


GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.





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NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CRAIG A. MACKIE
STATE OF WASHINGTON
41395
REGISTERED PROFESSIONAL ENGINEER
10/5/06
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:	
HORIZONTAL:	1"=50'
VERTICAL:	1"=10'

PROJ #:	2004-63
DATE:	10/05/06
DRAWN:	GFR
APPROVED:	CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET PLAN AND PROFILE
WINDSOR ESTATES
DRAINAGE DETAILS-PLAN AND PROFILE
SILVERPINE RD AND COOPER LANE
SPOKANE COUNTY, WASHINGTON

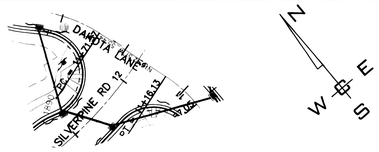
SHEET 12 OF 15

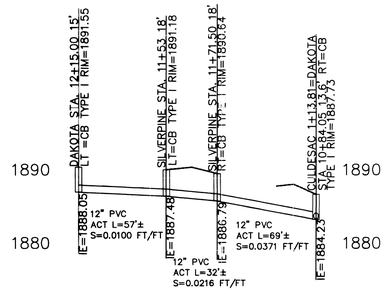
JOB NUMBER 2004-63

P-1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

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





GRAPHIC SCALE

(IN FEET)
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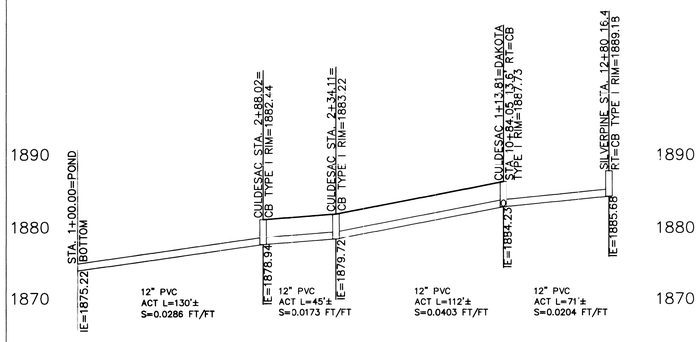

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 11/19/07
ACCEPTANCE EXPIRES: 11/19/09
PROJECTS LANE MILES: PUBLIC: 0.16
PROJECT LANE MILES PRIVATE: 0.11
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
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C. A. MACPHERSON
STATE OF WASHINGTON
41395
REGISTERED PROFESSIONAL ENGINEER
10/05/06
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

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Mike Hume
DEVELOPER'S APPROVAL

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STREET PLAN AND PROFILE
WINDSOR ESTATES
DRAINAGE DETAILS-PLAN AND PROFILE
SILVERPINE RD AND DAKOTA LANE
SPOKANE COUNTY, WASHINGTON

SHEET 13 OF 15

JOB NUMBER 2004-63

P-1953 Eng Road Drainage

EROSION CONTROL PLAN

WINDSOR ESTATES

SPOKANE COUNTY, WASHINGTON

NE 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1·800
424·5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

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 THE 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 DESIGNEE OF PROJECT SPONSOR/OWNER.

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 EXISTING UTILITIES. 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 SPOKANE COUNTY AND ALL UTILITY COMPANIES 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. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE SPOKANE COUNTY THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN, IN ACCORDANCE WITH M.U.T.C.D. 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 SAID PLANS. PRIOR TO INSTALLATION AND PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH SPOKANE COUNTY.

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 OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. PER AGENCY STANDARDS 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. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.

14. ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND-DISTURBING ACTIVITY. ALL E.S.C. 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. 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.

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. ALL CONSTRUCTION OPERATIONS , 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 TIME PERIOD APPROVED BY SPOKANE COUNTY.

18. BASED ON A REQUIREMENT FROM SPOKANE COUNTY, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.

19. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL BY THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

WATER PURVEYOR | **SEWER** | **TELEPHONE**

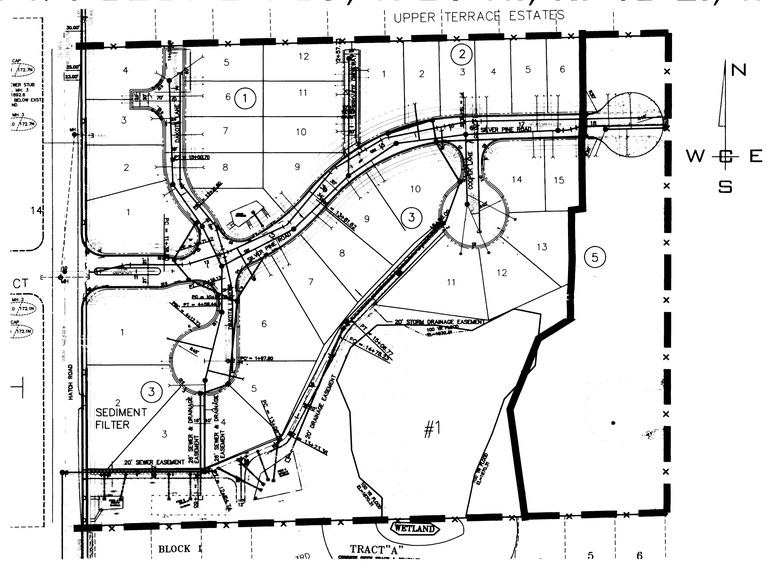
NATURAL GAS | **INSPECTION** | **FIRE DEPARTMENT**

SOLID WASTE | **POWER** | **CABLE**

OWNER

SURVEYOR - CONST. | **DEPT. OF HEALTH**

SURVEYOR - PRELIM.

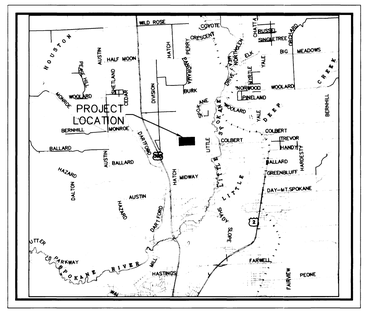


SITE PLAN

LEGEND

LEGAL DESCRIPTION

THE SOUTH HALF OF THE NORTH HALF OF THE NORTHEAST QUARTER EXCEPT THE ROAD



VICINITY MAP

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.

EROSION & SEDIMENT CONTROL

GENERAL NOTES AND INFORMATION

1. AN EROSION/SEDIMENT CONTROL (E.S.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE **E.S.C. PLAN**, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE **E.S.C.** 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 **E.S.C. PLAN** DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE **E.S.C. 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.
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: **PAKIBA, (509) 455-8883**
   CONTACT PERSON ON SITE: **TRAVIS PASKE, (509) 951-4976.**
9. PROJECT LOCATION: IN SPOKANE COUNTY, IN **SECTION 29, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M.**
10. PROJECT DESCRIPTION: WINDSOR ESTATES IS A RESIDENTIAL SUBDIVISION CONSISTING OF 34 (PHASE I) LOTS AND WILL REQUIRE CONSTRUCTION OF ROADS AND STORM DRAINAGE. THE IMPROVEMENTS CONSIST OF APPROXIMATELY 2446 LINEAR FEET OF DRAINAGE AND ELECTRICAL FACILITIES; 2446 LINEAR FEET OF NEW ASPHALT ROADWAY AND ASSOCIATED STORM DRAINAGE FOR PHASE 1.
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: **TREES, SHRUBS, GRASS AND WET SOIL PLANTS**.
13. PLAN PREPARATION DATE: **JUNE 26, 2006**
14. SOILS: **ON SITE SOILS,** HfC –Hagen Loamy fine sand HmA –Hardesty silt loam HhA – Hardesty silt loam BeB – Bernhill gravelly silt loam PeA –Peone Silt Loam
15. **STABLIZATION 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. **LIMITS OF GRADING:**
    DURING THE COURSE OF CONSTRUCTION, THE AMOUNT OF DISTURBED AREA SHALL BE KEPT TO A MINIMUM AND SHALL BE LIMITED TO THE AREA SHOWN AS "LIMITS OF GRADING" ON THIS SHEET OF THE EROSION CONTROL PLANS.

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.

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.

ENGINEER — CRAIG A. MACPHEE, P.E.
10-5-06

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1953
DATE ACCEPTED: 1/19/07
ACCEPTANCE EXPIRES: 1/19/09
PROJECTS LANE MILES: PUBLIC: 0.15
PROJECT LANE MILES PRIVATE: 0.11
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

CRAIG A. MACPHEE — STATE OF WASHINGTON — 21395 — PROFESSIONAL ENGINEER
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

NAVD-88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION)3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM – (WSDOT BRASS DISK IN CONC. #GP32395-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

DEVELOPER'S APPROVAL — DATE 10/5/06

NO.	DATE	BY	REVISIONS
--	--/--	--	PLAN SUBMITTAL FOR REVIEW AND APPROVAL
--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE: HORIZONTAL: 1"=200' VERTICAL: N/A

PROJ #: 2004-63
DATE: 10/05/06
DRAWN: GFR
APPROVED: CAM

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
PH. 509-893-2617 FAX 509-926-0227

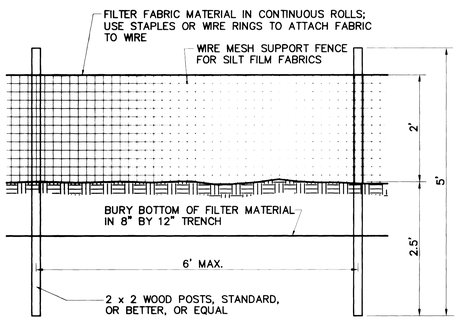
STREET PLAN AND PROFILE
WINDSOR ESTATES
EROSION CONTROL PLAN
SPOKANE COUNTY, WASHINGTON

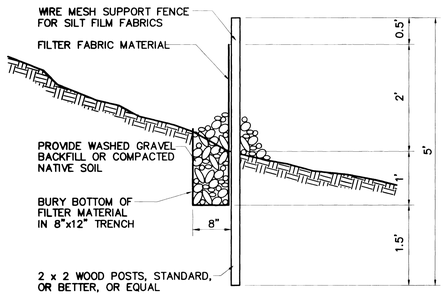
SHEET 14 OF 15
JOB NUMBER 2004-63

P-1953 Eng Road Drainage

NE. 1/4 SECTION 29, T. 27 N., R. 43 E., W.M.

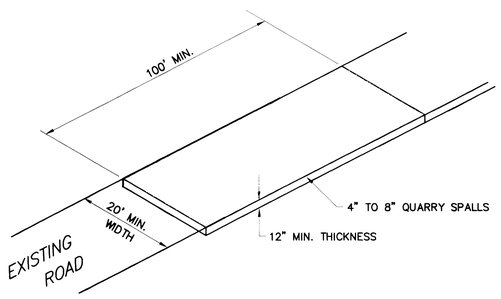
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1·800
424·5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG





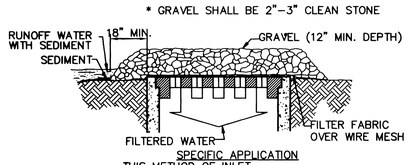
SILT FENCE DETAIL (1)

NOT TO SCALE



ROCK CONSTRUCTION ENTRY (2)

NOT TO SCALE

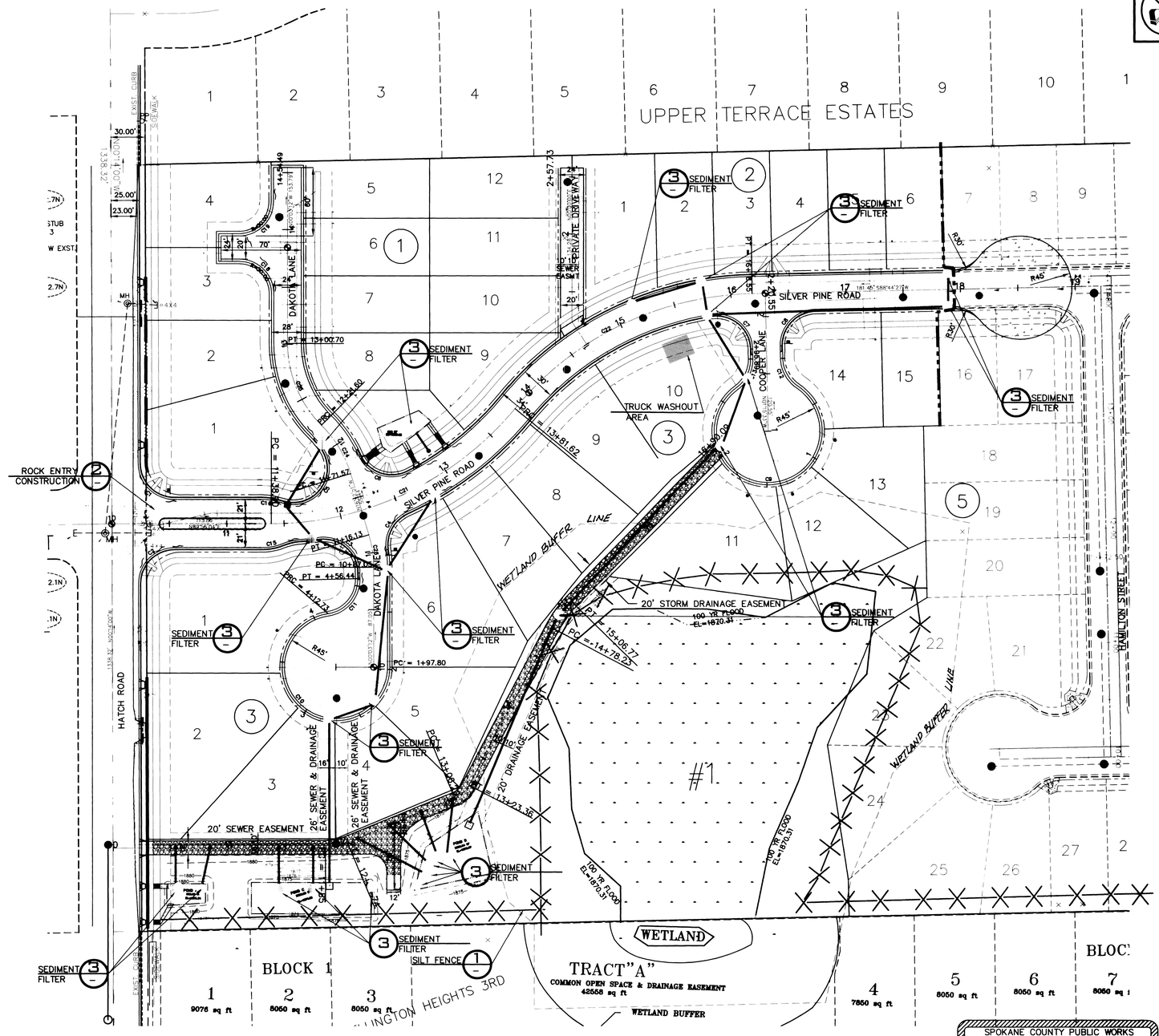


SPECIFIC APPLICATION

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



GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

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CRAIG A. MACPHEE
STATE OF WASHINGTON
41395
PROFESSIONAL ENGINEER
EXPIRES 7/23/07

COUNTY PROJECT # - PN-1953-05

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Mike Hume — DEVELOPER'S APPROVAL — 10/5/06 DATE

NO.	DATE	BY	REVISIONS
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--	01/06	GFR	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1"=50'
VERTICAL: N/A

PROJ #: 2004-63
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SHEET 15 OF 15
JOB NUMBER 2004-63

P-1953 Eng Road Drainage