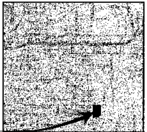
COVER SHEET
FOR
SOUTHRIDGE PUD, PHASE 1
STREET AND DRAINAGE PLANS

SEC. 35, T.25 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON

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



VICINITY MAP

ABBREVIATIONS

ACT. LEN.	ACT LENGTH	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE
BCR	BEGINNING OF CURVE	FT. / FT.	FEET PER FOOT	PT	POINT OF TANGENCY
BDRY	BOUNDARY	HYD.	HYDRANT	INV. EL	INV. ELEVATION
CO.	SEWER CLEANOUT	I.E.	INVERT ELEVATION	RD	ROAD
CBTC	CONCRETE BASE ASPHALT TOP COURSE	LN.	LANE	RT.	RIGHT
CT	COURT	LT.	LEFT	S.	STREET INTERSECTION
DIA.	DIAMETER	MH	MANHOLE	SS	SANITARY SEWER
ECR	END OF CURVE	MCR	MID POINT OF CURVE	STA.	STATION
EXIST.	EXISTING	PC	POINT OF CURVE	STA. LEN.	STATION LENGTH
G	GRADE	PET	PETROLEUM	TG	TOP OF GRATE
		PI	POINT OF INTERSECTION	TC	TOP OF CURB

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN **SPOKANE COUNTY** REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE **SPOKANE COUNTY** INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY 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 THE **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.

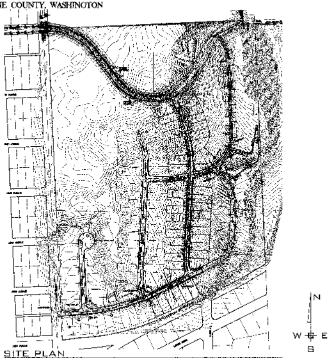
16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE **SPOKANE COUNTY** ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

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 REQUIREMENT FROM THE **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.

20. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 509-477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.



SITE PLAN
SCALE 1"=200'

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	
	FIRE HYDRANT	
	SERVICE	
	METER	
	BLOWOFF	
	AIR VACUUM RELIEF STATION	
	STORM DRAINAGE	
	DRAINAGE LINE	
	MANHOLE	
	DRYWELL	
	CATCH BASIN	
	DITCH	
	NATURAL GAS	
	GAS LINE	
	VALVE	
	METER	
	TELEPHONE-POWER	
	BURIED TELEPHONE	
	POWER OR TELEPHONE POLE	
	BURIED POWER	
	TRANSFORMER PAD	
	TELEPHONE RISER	
	TELEPHONE VAULT	
	OVERHEAD POWER	
	GUY ANCHOR	
	POWER VAULT	
	LIGHT POLE	

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COUNTY ENGINEER
SPOKANE COUNTY ENGINEERS
1026 WEST BROADWAY AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-477-3600
FAX: 509-477-7475
CONTACT: MATT ZARECOR, P.E.

SEWER
CITY OF SPOKANE
808 W. SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201
PHONE: 509-625-6300
FAX: 509-625-6700
CONTACT: KRIS BECKER, P.E.

WATER PURVEYOR
CITY OF SPOKANE
914 N. FOOTHILLS
SPOKANE, WASHINGTON 99207
PHONE: 509-625-7800
FAX: 509-625-7816
CONTACT: CHRIS PETERSCHMIDT, P.E.

INSPECTION
ALLWEST
EAST 12928 INDIANA AVENUE
SPOKANE VALLEY, WA 99216
PHONE: 509-534-4411
FAX: 509-534-8298
CONTACT: PAUL T. NELSON, P.E.

FIRE DEPARTMENT
FIRE DISTRICT NO. 8
12100 E. PALOUSE HIGHWAY
VALLEYFORD, WA 99036
PHONE: 509-926-6599
FAX: 509-924-5556
CONTACT: DAN BLYSTONE

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

NATURAL GAS
AVISTA UTILITIES
1411 EAST MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-4774
FAX: 509-495-8713
CONTACT: CHRIS McCAIN

SURVEYOR
CLIFF CAMERON
P.O. BOX 641
COLBERT, WASHINGTON 99005
PHONE: 509-467-0148
CONTACT: CLIFFORD E. CAMERON, P.L.S.

CABLE
COMCAST BROADBAND
1717 EAST BUCKEYE
SPOKANE, WASHINGTON, 99207
PHONE: 509-484-4931
CONTACT: BRYAN RICHARDSON

POWER
AVISTA UTILITIES
1411 EAST MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-4774
FAX: 509-495-8713
CONTACT: CHRIS FRACZ

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

OWNER
LANZCE DOUGLASS, INC.
1407 E. MAGNESIUM ROAD
SPOKANE, WA 99217
PHONE: 509-483-4908
FAX: 509-483-6532
CONTACT: LANZCE DOUGLASS

SOLID WASTE
WASTE MANAGEMENT
PHONE: 509-466-3400

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.

P-1938

NOTE:
CONTRACTOR TO TAKE NOTE, WHERE WATER LINES CONFLICT WITH STORM DRAINAGE PIPE THE WATER LINES SHALL BE ROUTED UNDER THE STORM DRAINAGE PIPE PER DETAIL 1 SHEET 5B.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1938
DATE ACCEPTED: 5/7/07
ACCEPTANCE EXPIRES: 5/7/09
PROJECTS LANE MILES: PUBLIC: —
PROJECT LANE MILES PRIVATE: 0.40
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 PROVIDER 2 WORKING DAYS PRIOR TO CONSTRUCTION

[Engineer's seal and signature] EXPIRES 8/24/2007

NAVD-88 DATUM
MONUMENT ID NO. 3364, ... ELEVATION = 1745.562 ... STREET AND 29TH AVENUE ELEVATION ...

[signature] 5-4-07
DEVELOPERS APPROVAL — DATE

NO	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	03/31	MLM	PLAN PREPARATION

SCALE:		PROJ #:	2005-175
HORIZONTAL:	AS SHOWN	DATE:	05/04/07
		DRAWN:	MLM
VERTICAL:	N/A	APPROVED:	TRW

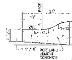
WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
COVER SHEET
SPOKANE COUNTY, WASHINGTON

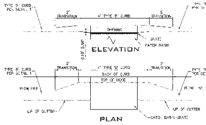
SHEET 1 OF 9
JOB NUMBER 2005-175

Revised P1938 Eng Road Drawing

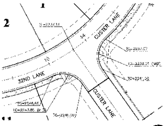
SECTION 36, T. 25 N., R. 43 E., W.M.



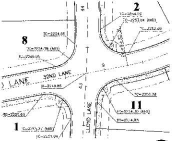
TYPE "R" CURB (1)
NOT TO SCALE



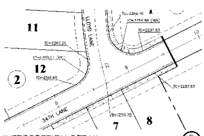
CURB & CATCH BASIN DETAIL (2)
NOT TO SCALE



INTERSECTION DETAIL (3)
SCALE: 1" = 30'



INTERSECTION DETAIL (4)
SCALE: 1" = 30'



INTERSECTION DETAIL (5)
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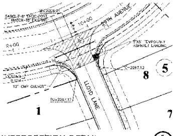
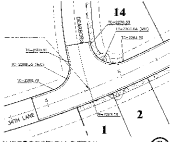


INTERSECTION DETAIL (6)
SCALE: 1" = 30'



INTERSECTION DETAIL (7)
SCALE: 1" = 30'

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 **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 DRAWINGS OF IRRIGATION PLANS UPON COMPLETION OF ALL SWALE CONSTRUCTION.

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE **SPOKANE COUNTY** STANDARDS (2001 EDITION) BETWEEN NATIVE SOIL AND GRAVEL ONLY. SHEET D-? 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 AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (30 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY, CURBING, PAVING, ETC.

SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, 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. IF INSTALLED, PATCH ASPHALT AS NEEDED.

LAWN AREAS: LAWN AREAS ARE TO BE IRRIGATED WITH ROTO POP-UP HEADS OR EQUIVALENT (TEST SYSTEM BEFORE BASKET LAID), ETC. TO PROVIDE UNIFORM [illegible]

ADJUSTMENT: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, 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.

STANDARD NOTES FOR CONSTRUCTION PLANS

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 1896, AND AS AMENDED.

2. 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.

3. 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.

4. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.

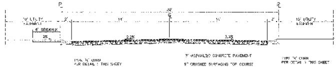
5. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK, AND BETWEEN THE WASHED DRAINROCK AND THE NATIVE SOILS.

6. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.

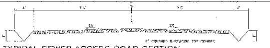
7. FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT/FT), A WASHINGTON STATE-LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

8. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT LINE AND 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.

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 MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.



TYPICAL CROSS SECTION
NOT TO SCALE



TYPICAL SEWER ACCESS ROAD SECTION
NOT TO SCALE

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

N
W E
S

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1938
DATE ACCEPTED: 3/6/07
ACCEPTANCE EXPIRES: 3/6/10
PROJECTS LANE MILES PUBLIC: 0.40
PROJECT LANE MILES PRIVATE:

P-1938

NAVD-88 DATUM

Jonnel Douglas
DEVELOPER'S APPROVAL
2-1-7
DATE

NO	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	03/31	MLM	PLAN PREPARATION

SCALE:	
HORIZONTAL: AS SHOWN	PROJ #: 2005-175
	DATE: 12/18/06
VERTICAL: N/A	DRAWN: MLM
	APPROVED: TDV

WCE
WHIPPLE CONSULTING ENGINEERS

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
NOTES - SECTIONS - DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET
2 OF 9
JOB NUMBER
2005-175

P-1938 England Drainage

SECTION 35, T. 25 N., R. 43 E., W.M.

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

DEARBORN LANE

32ND LANE

LOID LANE

CUSTER LANE

TRACT A

NOT A PART

GRAPHIC SCALE

EXISTING CULVERT TO BE REMOVED AND RE-PLACED WITH CALCULATED PIPE

NOTE:
PROVIDE AND INSTALL
X-30" DIAM. PVC
RCP CULVERTS 5' 0"
ON CENTER.
LE(S)=2904.00
LE(N)=2905.0
S=0.0122 FT/FT
FOR RIP-RAP SEE
DETAIL 3 SHEET 7

EXISTING MAPPED FLOOD PLAIN

REVISED PROPOSED FLOOD PLAIN

LEGEND

EXISTING MAPPED FLOOD PLAIN

REVISED PROPOSED FLOOD PLAIN

SPOKANE COUNTY PUBLIC WORKS
SECTION: PUBLIC COMMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2005-175
DATE ACCEPTED: 5/26/09
ACCEPTANCE EXPIRES:
PROJECT LANE MILES: PUBLIC: 0.245
PROJECT LANE MILES PRIVATE:
CONSTRUCTION GUARANTEE AND DEFERRED BONDED ORDINANCE NO. 04-0157 ARE REQUIRED PRIOR TO FINAL ACCEPTANCE AND OWNERSHIP OF THE ROADS AND DRAINAGE FACILITIES MAINTENANCE FORMS REQUIRED 1 YEAR AFTER

P-1938

NAVD-88 DATUM

DEVELOPER'S APPROVAL

2-27-7
DATE

NO.	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	08/31	MLM	PLAN PREPARATION

SCALE:
HORIZONTAL: AS SHOWN
VERTICAL: N/A

PROJ #: 2005-175
DATE: 12/19/08
DRAWN: MLM
APPROVED: TRW

WCE
WILSON ENGINEERS, INC.
CIVIL AND TRANSPORTATION ENGINEERS
LAND DEVELOPMENT CONSULTANTS
SURVEYORS • PLANNERS
1115 TRIDENT BOULEVARD
SPOKANE, WASHINGTON 99202
(509) 924-9200 FAX (509) 924-9290

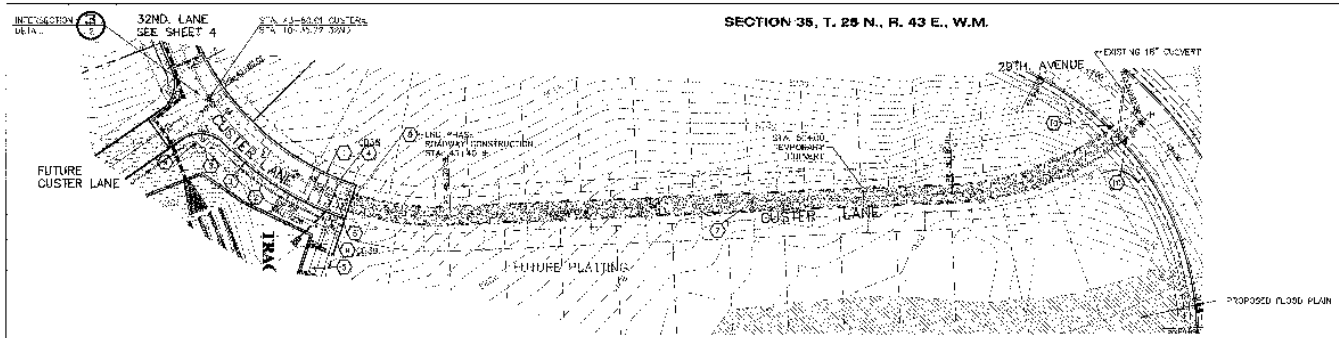
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
GRADING PLAN
SPOKANE COUNTY, WASHINGTON

SHEET
2A OF 9
JOB NUMBER
2005-175

P-1938 Eng Prel Drainage

SECTION 35, T. 25 N., R. 43 E., W.M.

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

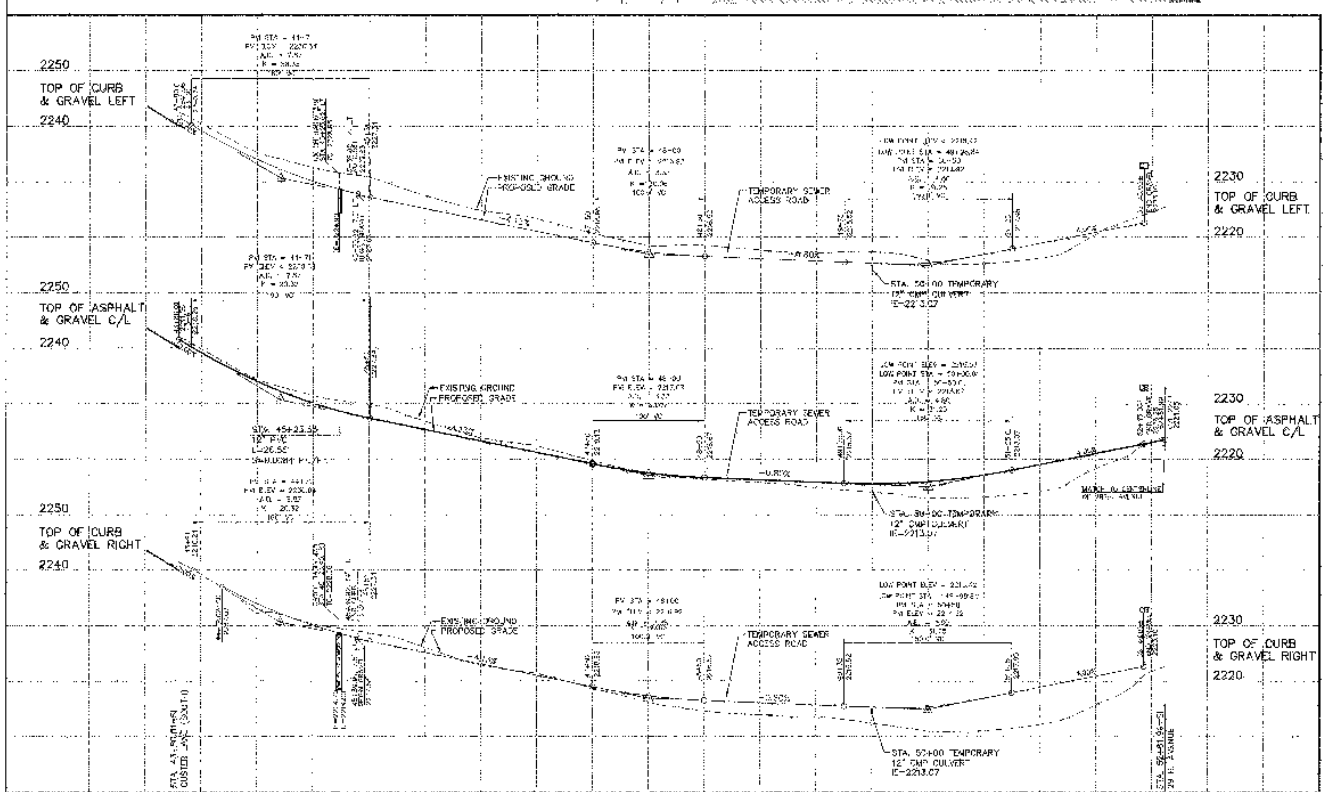


CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE "M" CURB PER SPOKANE COUNTY STANDARDS SEE DETAIL 1 SHEET 2.
2. PROVIDE AND INSTALL 6 FT. SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1
3. PROVIDE AND INSTALL CURB RAMP DESIGN "A" PER SPOKANE COUNTY STANDARD PLAN A-5.
4. PROVIDE AND INSTALL TYPE "1" CATCH BASIN WITH TYPE "2" 1000LB AND FRAME AND TYPE "1" GRATE PER SPOKANE COUNTY STANDARD PLAN "B-4", "B-11", AND "B-12". SEE PROFILE FOR STATION AND TOP OF CURB ELEVATIONS. SEE SHEET 7 FOR LENGTHS, INVERTS AND SLOPE INFORMATION.
5. PROVIDE AND INSTALL 12" PVC STORM DRAIN PIPE SEE SHEET 7 FOR GRADE AND LENGTHS.
6. PROVIDE AND INSTALL STREET SIGN PER SPOKANE COUNTY STANDARD PLAN A-16 AND M.U.T.C.D.
7. PROVIDE AND INSTALL 15' WIDE GRAVEL ACCESS ROAD FOR SEWER MAINTENANCE SEE CROSS SECTION SHEET 9.
8. PROVIDE AND INSTALL 4' HIGH CHAIN LINK GATE PER SPOKANE COUNTY STANDARDS.
9. PROVIDE AND INSTALL INSTALL 48 TYPE 2 CATCH BASIN PER WSDOT STANDARD PLAN "B-10.20-02" WITH METAL FRAME TYPE "2", HOOD TYPE "1" AND GRATE TYPE "1" PER SPOKANE COUNTY STANDARD PLAN "B-11", "B-14" SEE PROFILE FOR STATION, DEPTH AND ELEVATION INFORMATION.
10. FEATHER GRAVEL LEFT AND RIGHT TO MATCH EXISTING ON 28TH. AVENUE.

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	355.62'	250.00'	215.70'	326.63'	81°31'23"
C2	42.44'	30.00'	26.00'	38.99'	81°03'36"
C3	42.44'	30.00'	26.00'	38.99'	81°03'36"
C4	192.59'	262.00'	54.80'	188.28'	42°12'07"



GRAPHIC SCALE

P-1938

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1938
DATE ACCEPTED: 2/2/07
ACCEPTANCE EXPIRES:
PROJECT'S LANE MILES: PUBLIC 0.46
PROJECT LANE MILES PRIVATE:
ONE PRINTED CONVENTION AND DETAILED RECORD DRAWINGS, NOTE PLATES, AND ASSUMPTIONS TO COUNTY ACCEPTANCE AND OWNERSHIP OF THE STREET AND DRAINAGE FACILITIES FOR MAINTENANCE.
(FORM REVISED DEC 05/2006)
WORK MUST BE COMPLETED WITHIN 2 YEARS FROM TO CONSTRUCTION

NAVD-88 DATUM

DEVELOPER'S APPROVAL — DATE 2-2-7

NO.	DATE	BY	REVISIONS
	09/05	MLM	PLAN PREPARATION
		MBK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS

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

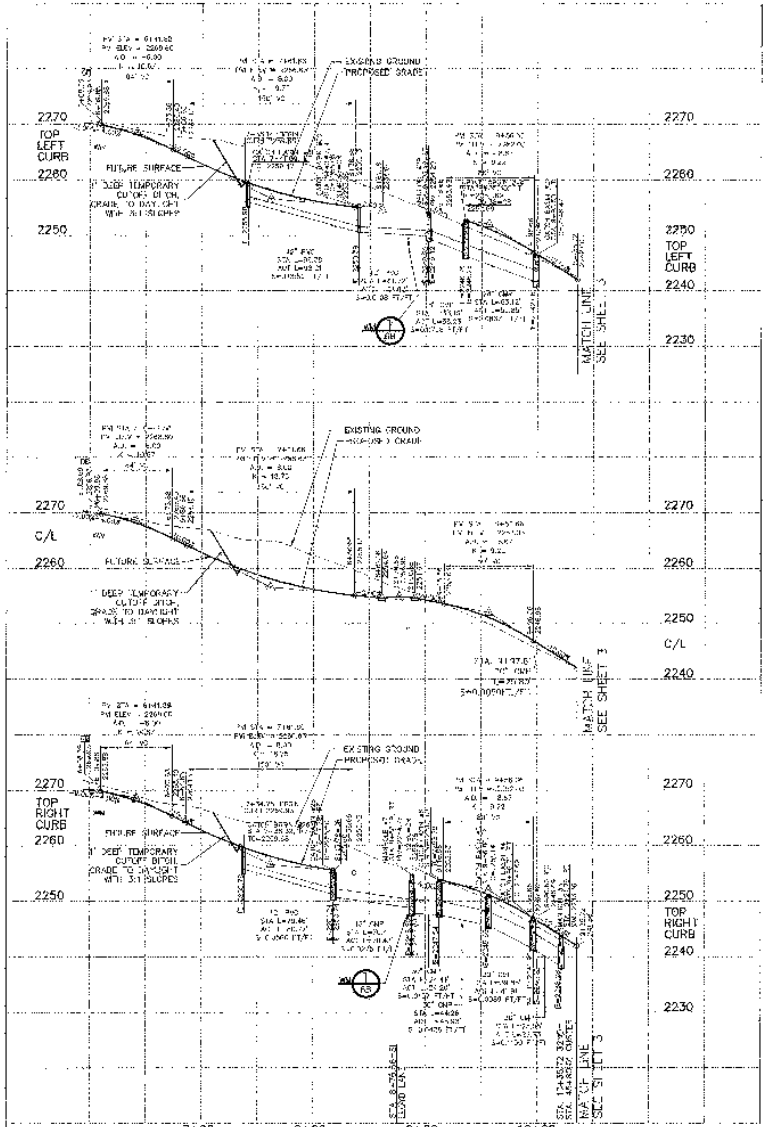
PROJ #: 2005-175
DATE: 12/18/06
DRAWN: MLM
APPROVED: TRW

WCE

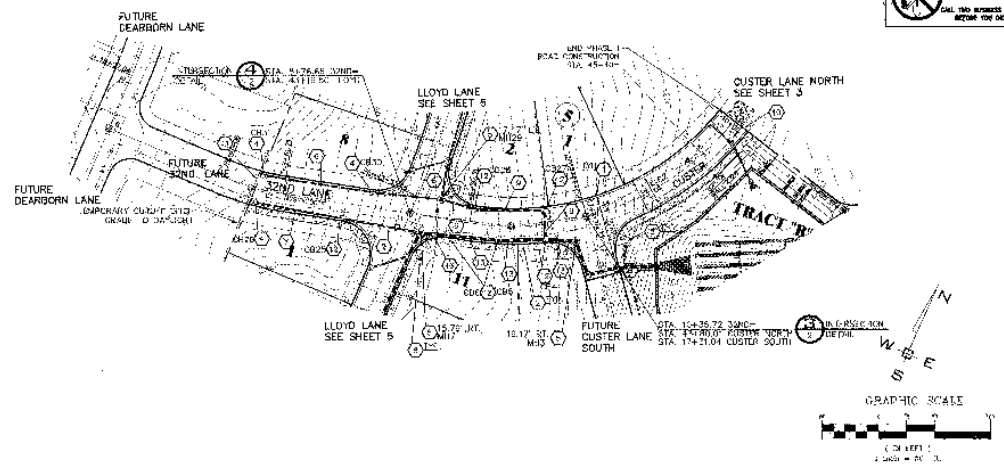
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
CUSTER LANE STA. 43+80.01 TO STA. 52+63.00
SPOKANE COUNTY, WASHINGTON

SHEET 3 OF 9
JOB NUMBER 2005-175

P1938



SECTION 35, T. 25 N., R. 43 E., W.M.



UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 456-8000

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE "B" CURB PER SPOKANE COUNTY STANDARDS SEE DETAIL 1 SHEET 2.
2. PROVIDE AND INSTALL 6 FT. SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
3. PROVIDE AND INSTALL CURB RAMP DESIGN "A" PER SPOKANE COUNTY STANDARD PLAN A-10.
4. PROVIDE AND INSTALL TYPE "1" CATCH BASIN WITH TYPE "2" HOOD AND FRAME AND TYPE "1" GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-14, AND B-15. SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
4A. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE "2" CATCH BASIN PER W.S.D.O.T. STANDARD PLAN B-10.20-00 WITH METAL FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN B-15. SEE PROFILE FOR STATION, OFFSET, AND ELEVATION INFORMATION.
5. PROVIDE AND INSTALL 12" PVC STORM DRAIN PIPE TO GRADE AND LENGTHS AS SHOWN ON PROFILE.
7. PROVIDE AND INSTALL 18" CMP STORM DRAIN PIPE TO GRADE AND LENGTHS AS SHOWN ON PROFILE.
8. PROVIDE AND INSTALL STREET SIGN PER SPOKANE COUNTY STANDARD PLAN A-16 AND W.S.D.O.T.
9. PROVIDE AND INSTALL 24" CMP STORM DRAIN PIPE TO GRADE AND LENGTHS AS SHOWN ON PROFILE.
12. PROVIDE AND INSTALL 4' HIGH CHAIN LINK GATE PER SPOKANE COUNTY STANDARDS.
11. PROVIDE AND INSTALL TYPE III BARRICADE PER W.S.D.O.T. STANDARD PLAN III-3.
12. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE "2" CATCH BASIN PER W.S.D.O.T. STANDARD PLAN B-10.20-00 WITH METAL FRAME, TYPE "2" HOOD AND TRAME AND TYPE "1" GRATE PER SPOKANE COUNTY STANDARD PLAN B-14, AND B-15. SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
13. PROVIDE AND INSTALL 30" CMP STORM DRAIN PIPE TO GRADE AND LENGTHS AS SHOWN ON PROFILE.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	268.00'	28.36'	12.70'	28.34'	6°26'19"
C2	250.00'	350.46'	215.30'	326.63'	81°34'39"
C3	30.00'	40.32'	24.57'	37.53'	77°39'19"
C4	30.00'	51.32'	34.20'	45.21'	97°57'57"
C5	30.00'	54.16'	38.40'	47.24'	103°30'01"
C6	30.00'	39.29'	22.44'	36.68'	75°00'00"
C7	30.00'	42.44'	25.97'	39.10'	81°00'00"
C8	30.00'	46.14'	29.85'	39.89'	88°12'25"

SPOKANE COUNTY PUBLIC WORKS OFFICIAL PUBLIC DOCUMENT ORIGINAL CONSTRUCTION PLANS
PROJECT #: SD-1938
DATE ACCEPTED: 4/16/07
ACCEPTANCE EXPIRES: 4/16/09
PROJECT'S LANE MILES: PUBLIC: 0.0 PRIVATE: 0.0
PROJECT LANE MILES: PRIVATE:
EXTENSION REQUESTED: YES AND APPROVED
RECORD DRAWINGS: "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT NUMBER: 2005-175-2000
PRIOR TO CONSTRUCTION

P-1938

NAVD-88 DATUM

DEVELOPER'S APPROVAL — DATE 2-2-7

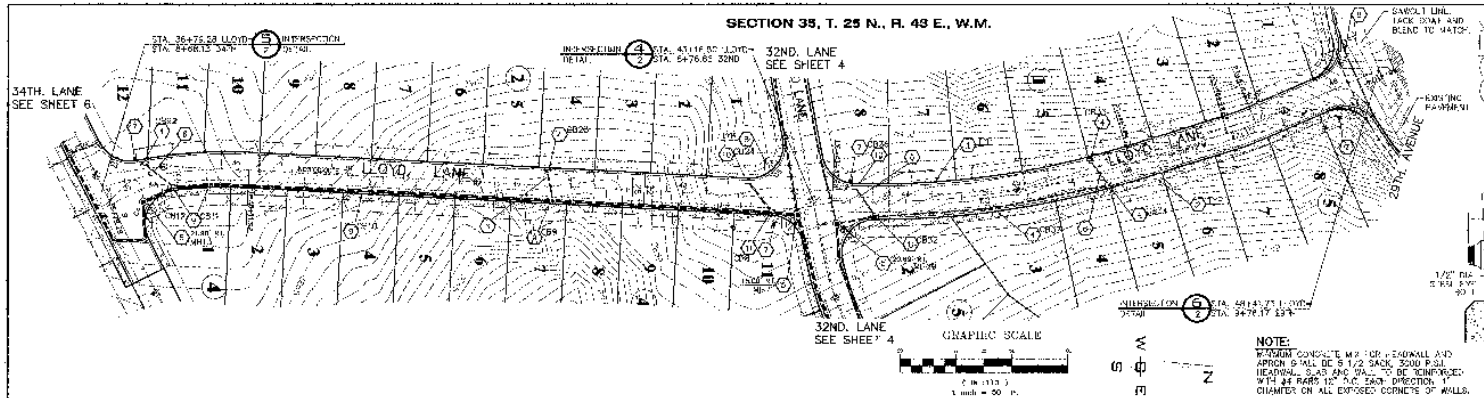
	MDR - SUBMITTAL TO SPOKANE COUNTY ENGINEERS	SCALE:	PROJ #: 2005-175
	03/31 MLM PLAN PREPARATION	HORIZONTAL: 1"=50	DATE: 12/18/06
NO	DATE BY REVISIONS	VERTICAL: 1"=10	DRAWN: MLM
			APPROVED: TRW

WCE

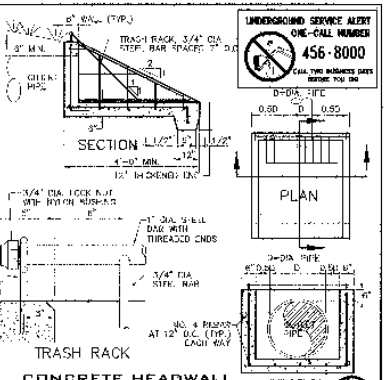
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
32ND. LANE STA. 7+38.14 TO STA. 10+35.72
SPOKANE COUNTY, WASHINGTON

SHEET 4 OF 9
JOB NUMBER 2005-175

P-1938 Eng Bond Drawings



NOTE:
MINIMUM CONCRETE MIX FOR HEADWALL AND APRON SHALL BE 5 1/2 SACK, 3000 PSI. HEADWALL, SLAB AND WALL TO BE REINFORCED WITH #4 BARS 12" O.C. EACH DIRECTION. 1" CHAMFER ON ALL EXPOSED CORNERS OF WALLS.



NOT TO SCALE

CONSTRUCTION NOTES

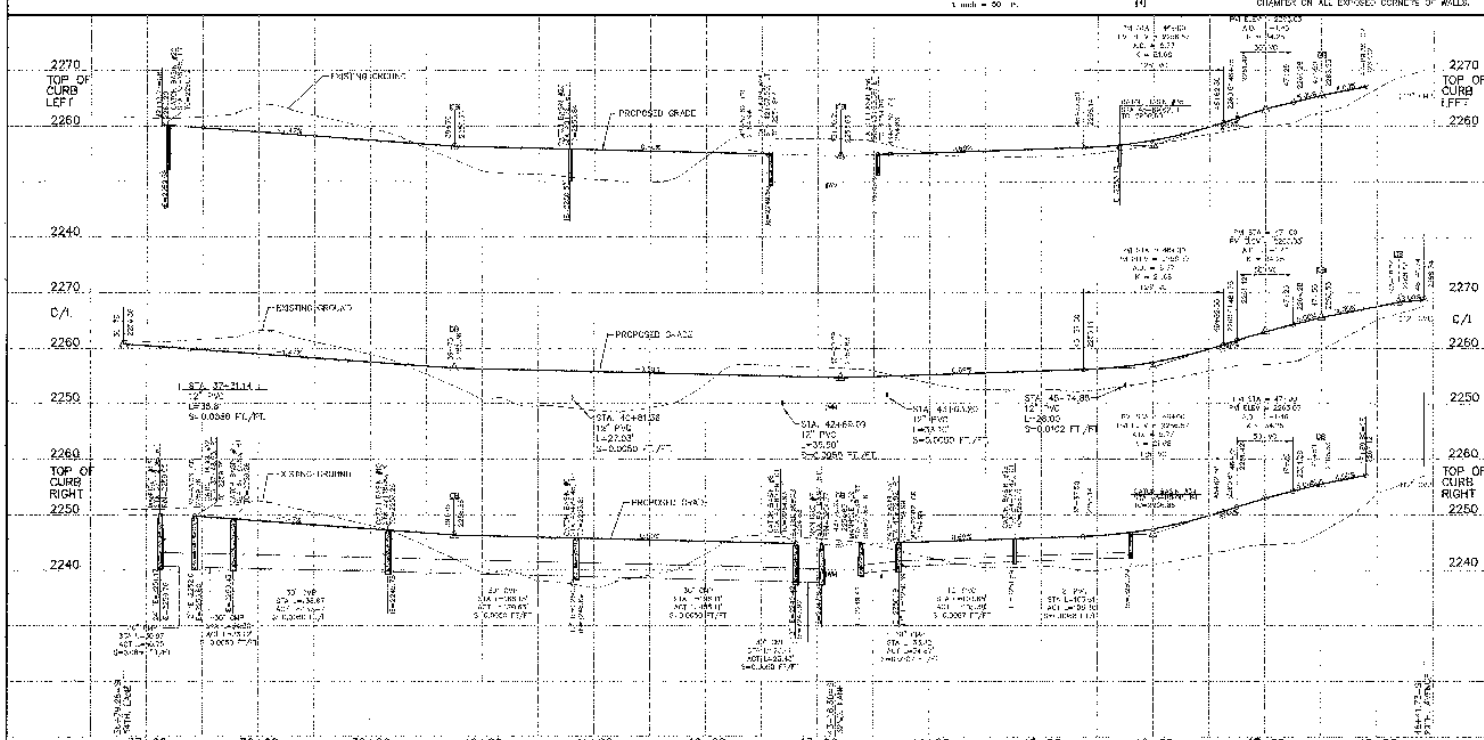
1. PROVIDE AND INSTALL TYPE R CURB PER DETAIL 1 SHEET 2.
2. PROVIDE AND INSTALL 6 FT. SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-5.
3. PROVIDE AND INSTALL CURB RAMP DESIGN A PER SPOKANE COUNTY STANDARD PLAN A-5.
4. PROVIDE AND INSTALL TYPE "1" CATCH BASIN, TYPE "2" FRAME AND HOOD, AND TYPE "4" GRATE PER SPOKANE COUNTY STANDARD PLAN "B-4", "B-11", AND "B-12" SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
5. PROVIDE AND INSTALL WSDOT 48" TYPE 2 CATCH BASIN PER W.S.D.O.T. STANDARD PLAN B-10.20-00 WITH METAL FRAME AND SOLID LID TYPE "4" PER SPOKANE COUNTY STANDARD PLAN "B-11" SEE PROFILE FOR STATION, OFFSET, AND ELEVATION INFORMATION.
6. PROVIDE AND INSTALL PVC OR CMP STORM DRAIN PIPE TO GRADE AND I.E.'S AS SHOWN ON PROFILE.
7. PROVIDE AND INSTALL STREET AND STOP SIGN PER SPOKANE COUNTY STANDARD PLAN A-18 AND M.U.T.C.D.
8. PROVIDE AND INSTALL 466.4 LF OF 12" CONCRETE CULVERT STORM DRAIN PIPE (TEMPORARY) WITH CONCRETE HEADWALL AND TRASH RACK PER SPOKANE COUNTY STANDARDS. SEE DETAIL 1 ON SHEET 2. I.E.(W)=2266.65, I.E.(E)=2263.40, S=0.0074 FT./FT.
9. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE 2 CATCH BASIN PER W.S.D.O.T. STANDARD PLAN "B-10.20-00" WITH METAL FRAME, TYPE "2" HOOD AND FRAME AND TYPE "4" GRATE PER SPOKANE COUNTY STANDARD PLAN "B-11", AND "B-12" SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
10. PROVIDE AND INSTALL SPOKANE COUNTY STANDARD PLAN "B-4" TYPE "1" CATCH BASIN, TYPE "2" FRAME AND HOOD, AND TYPE "3" GRATE PER SPOKANE COUNTY STANDARD PLAN "B-4", "B-11", AND "B-14" SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
11. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE "2" CATCH BASIN PER W.S.D.O.T. STANDARD PLAN "B-10.20-00" WITH METAL FRAME, TYPE "2" HOOD AND FRAME AND TYPE "3" GRATE PER SPOKANE COUNTY STANDARD PLAN "B-11", AND "B-14" SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	394.30'	132.84'	66.95'	132.02'	19°17'20"
C2	285.50'	371.08'	133.28'	289.87'	20°18'12"
C3	30.00'	48.52'	22.74'	35.88'	74°13'50"
C4	30.00'	57.98'	42.57'	49.74'	110°08'04"
C5	30.00'	9.48'	35.40'	17.25'	0°43'01"
C6	30.00'	39.78'	23.46'	36.94'	76°00'02"
C7	30.00'	40.57'	24.07'	37.55'	77°29'24"
C8	30.00'	55.54'	32.20'	41.27'	106°05'07"
C9	30.00'	43.08'	26.19'	39.48'	82°17'07"
C10	30.00'	47.06'	26.19'	39.48'	89°49'07"
C11	250.00'	27.24'	13.63'	27.23'	6°14'25"

SPOKANE COUNTY PUBLIC WORKS
OF RECORD PUBLIC COPY NOT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2006-175
DATE: ACCEPTED: 3/16/09
ACCEPTANCE EXPIRES: 3/16/09
PROFILES AND PLANS PUBLIC AND PROJECT LANE MUSTS PRIVATE
CONSTRUCTION DOCUMENTS AND SERVICES
RECORD DRAWINGS "AS-BUILTS" ARE RECORDED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE WARRANTY PERIOD FOR MAINTENANCE.
PERMIT REQUIRED 2006 AT 2006
NOTIFY WITH CHANGES & INSPECTION DATA
PRIOR TO STORMWATER

P-1938



NAVD 88 DATUM

DEVELOPER'S APPROVAL

DATE

NO	DATE	BY	REVISIONS
	03/07	MLM	MEK SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	03/07	MLM	PLAN PREPARATION

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

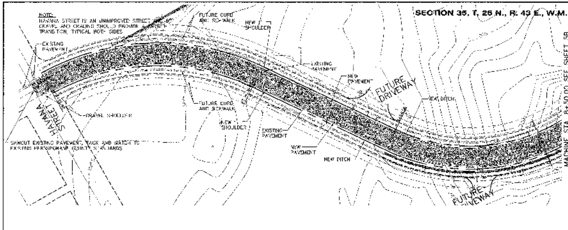
PROJ #: 2005-175
DATE: 12/10/06
DRAWN: MLM
APPROVED: TRW

WCE
WILSON ENGINEERS, INC.
CIVIL ENGINEERS • PLANNERS • SURVEYORS
3020 NORTH SUL TON ROAD
SPOKANE VALLEY, WASHINGTON 99216
(509) 924-7990 FAX 924-9231

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
LLOYD LANE STA. 36+79.28 TO STA. 48+41.73
SPOKANE COUNTY, WASHINGTON

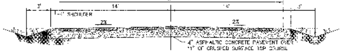
SHEET 5 OF 9
JOB NUMBER 2005-175

P-1938

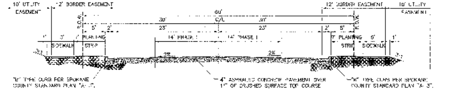


CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	358.10	340.94	184.63	328.21	54°33'00"
C2	285.45	576.34	465.51	485.01	115°42'00"
C3	285.45	305.58	169.14	291.30	61°07'30"

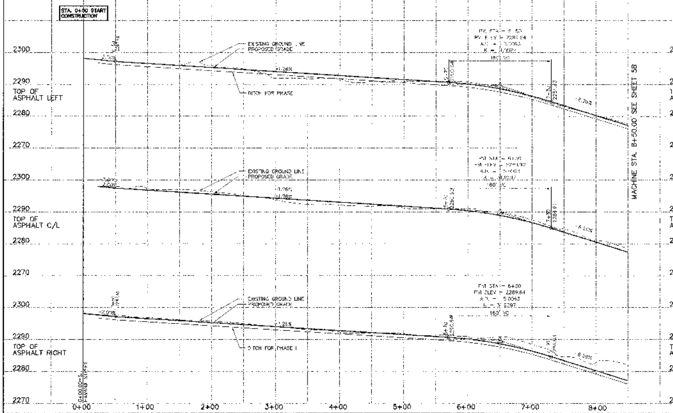
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



29TH. AVENUE ROADWAY SECTION PHASE I
NOT TO SCALE STA. 0+00 TO STA. 10+15



29TH. AVENUE ROADWAY SECTION PHASE II
NOT TO SCALE STA. 0+00 TO STA. 18+30



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1938
DATE ACCEPTED: 5/7/07
ACCEPTANCE EXPIRES: 5/7/09
PROJECT LANE MILES PRIVATE: 0.40

P-1938

NAVD-88 DATUM

DEVELOPER'S APPROVAL — DATE 5-4-07

NO.	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	04/19	MLM	PLAN PREPARATION

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

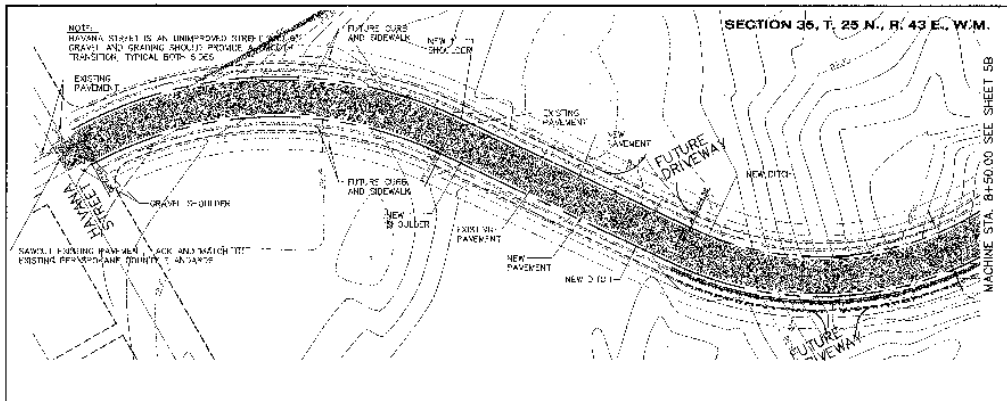
PROJ #: 2005-175
DATE: 05/04/07
DRAWN: RLM
APPROVED: TRW

WCE
WHIPPLE CONSULTING ENGINEERS

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
29TH. AVENUE STA. 0+00.00 TO STA. 8+50.00
SPOKANE COUNTY, WASHINGTON

SHEET
5A OF 9
JOB NUMBER
2005-175

P-1938 Eng Road Drainage

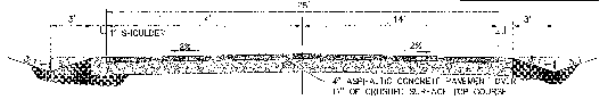


GRAPHIC SCALE

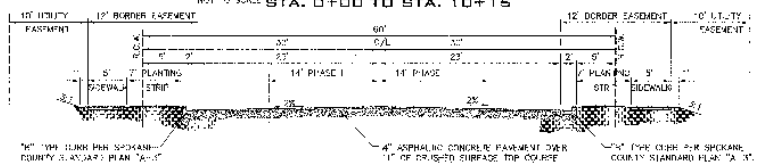
1 inch = 20 ft.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	258.70	140.94	154.63	139.21	31°13'00"
C2	286.48	570.34	455.51	485.21	115°10'00"
C3	286.48	305.58	169.11	291.32	61°07'02"

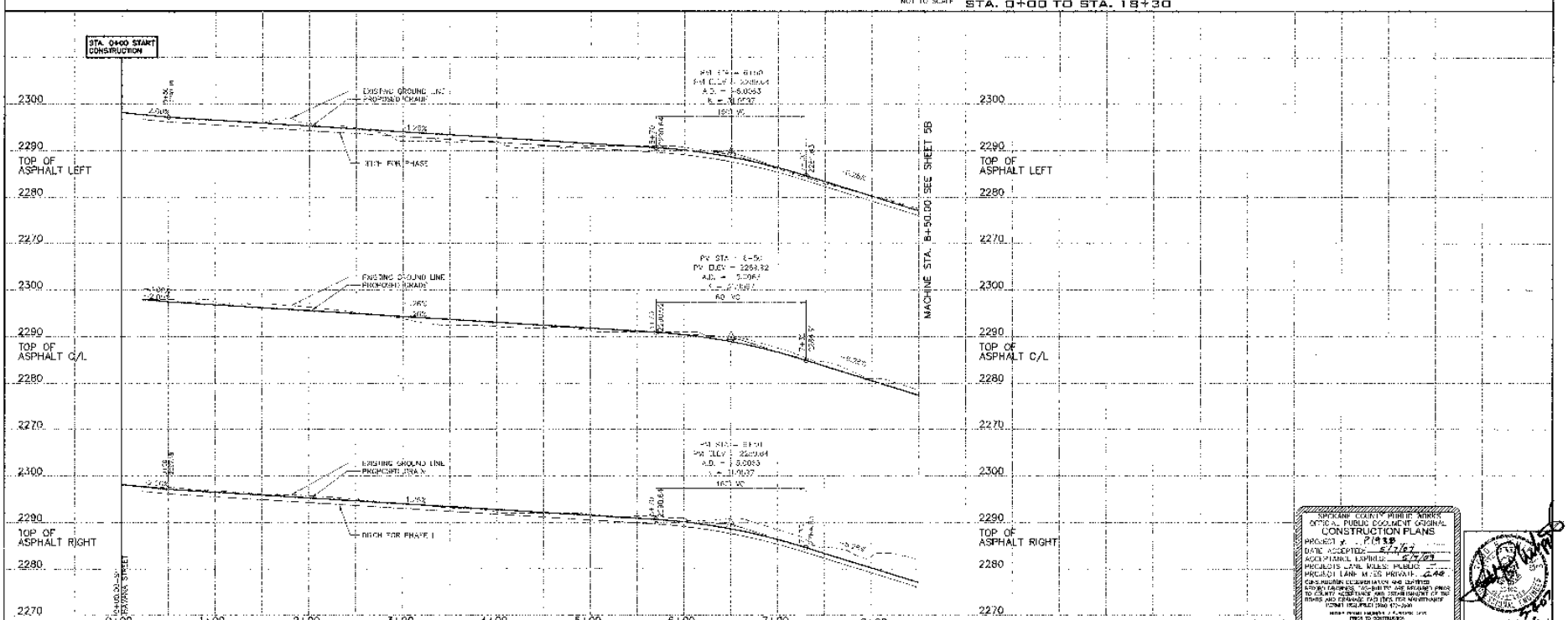
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG.



29TH. AVENUE ROADWAY SECTION PHASE I
NOT TO SCALE STA. 0+00 TO STA. 10+15



29TH. AVENUE ROADWAY SECTION PHASE II
NOT TO SCALE STA. 0+00 TO STA. 19+30



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1938
DATE ACCEPTED: 5/7/07
ACCEPTANCE EXPIRES: 5/7/09
PROJECT LANE MILES: PUBLIC 0.0
PROJECT LANE MILES: PRIVATE 2.48
CONSTRUCTION COMPLETION AND CERTIFIED AS-BUILT DRAWINGS TO BE SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND ENGINEERING OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE PERMIT REQUIRED PRIOR TO ISSUE
NOTIFY PUBLIC WORKS 24 HOURS PRIOR TO CONSTRUCTION

P-1938

NAVD-88 DATUM
MONUMENTATION: BOLT HOLE
BENCHMARK: CP 5-6-03
ELEVATION: 2196.95
VICINITY: SOUTHERN SHOULDER OF HAVANA STREET AND STA. 4+00 ELEVATION: 2236.98

DEVELOPER'S APPROVAL — DATE 5-4-07

NEW SUBMITTAL TO SPOKANE COUNTY ENGINEERS — DATE NEW PLAN PREPARATION — VOL. SA PG. — REVISIONS

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

PROJ #: 2005-175
DATE: 05/04/07
DRAWN: RLM
APPROVED: TRW

IWCE
INTERWEST CONSULTING GROUP, INC.
CIVIL ENGINEERS • LAND SURVEYORS
2509 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216
TEL: (509) 927-7552 FAX: (509) 927-7553

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
29TH. AVENUE STA. 0+00.00 TO STA. 8+50.00
SPOKANE COUNTY, WASHINGTON

SHEET 5A OF 9
JOB NUMBER 2005-175

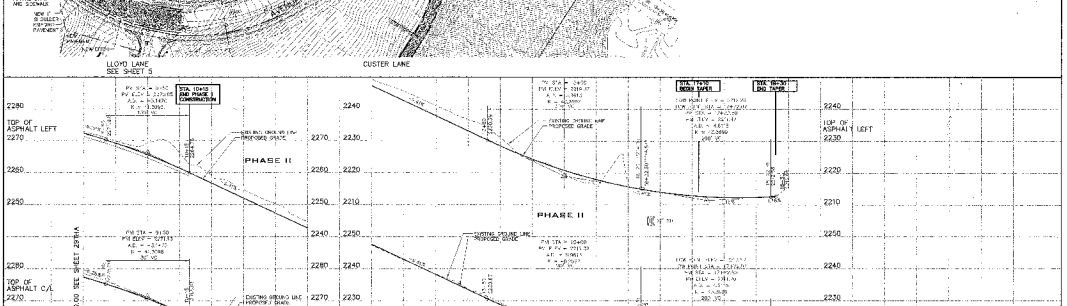
P-1938 Eng Bond Drawings

SECTION 35, T. 25 N., R. 43 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL ONE WORKING DAY BEFORE YOU DIG

GRAPHIC SCALE
1" = 40 FT.
1 cm = 20 m

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C11	325.00	545.64	384.05	525.2	96°13'07"
C12	265.00	705.74	400.51	485.7	152°42'07"
C13	265.00	305.58	161.14	289.00	65°30'07"



NAVD-88 DATUM
CONVERSION TO CITY OF SPOKANE
MINUS 0.50 FEET = CITY DATUM
+ 1000 FT = CITY DATUM
SHEET 1 OF 1 SHEET OF 1 SHEETS
TOTAL 1 PLAN SHEETS
TOTAL 0 PROFILE

DEVELOPER'S APPROVAL — DATE

NO.	DATE	BY	REVISIONS

SEAL: SUBMITTAL TO SPOKANE COUNTY ENGINEERS
SIGN: MEAN PLAN PREPARATION

SCALE: HORIZONTAL: 1"=40' VERTICAL: 1"=10'

PROJ #: 2005-175
DATE: 05/04/07
DRAWN: JEM
APPROVED: TRW

WCE
WILSON ENGINEERS
CIVIL ENGINEERS • SURVEYORS
707 SOUTH GRAND BLVD.
SPOKANE, WASHINGTON 99202
PH (509) 838-8140 FAX (509) 838-8146

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
29TH. AVENUE STA. 8+50.00 TO STA. 18+30.00
SPOKANE COUNTY, WASHINGTON

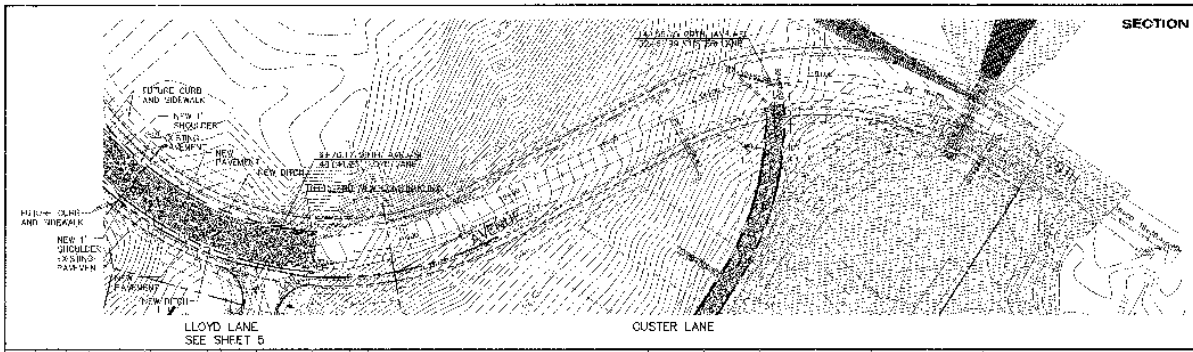
SHEET 06 OF 9
CIVIL REF: 2005-175

P-1938

Engineer's Signature

SECTION 35, T. 25 N., R. 43 E., W.M.

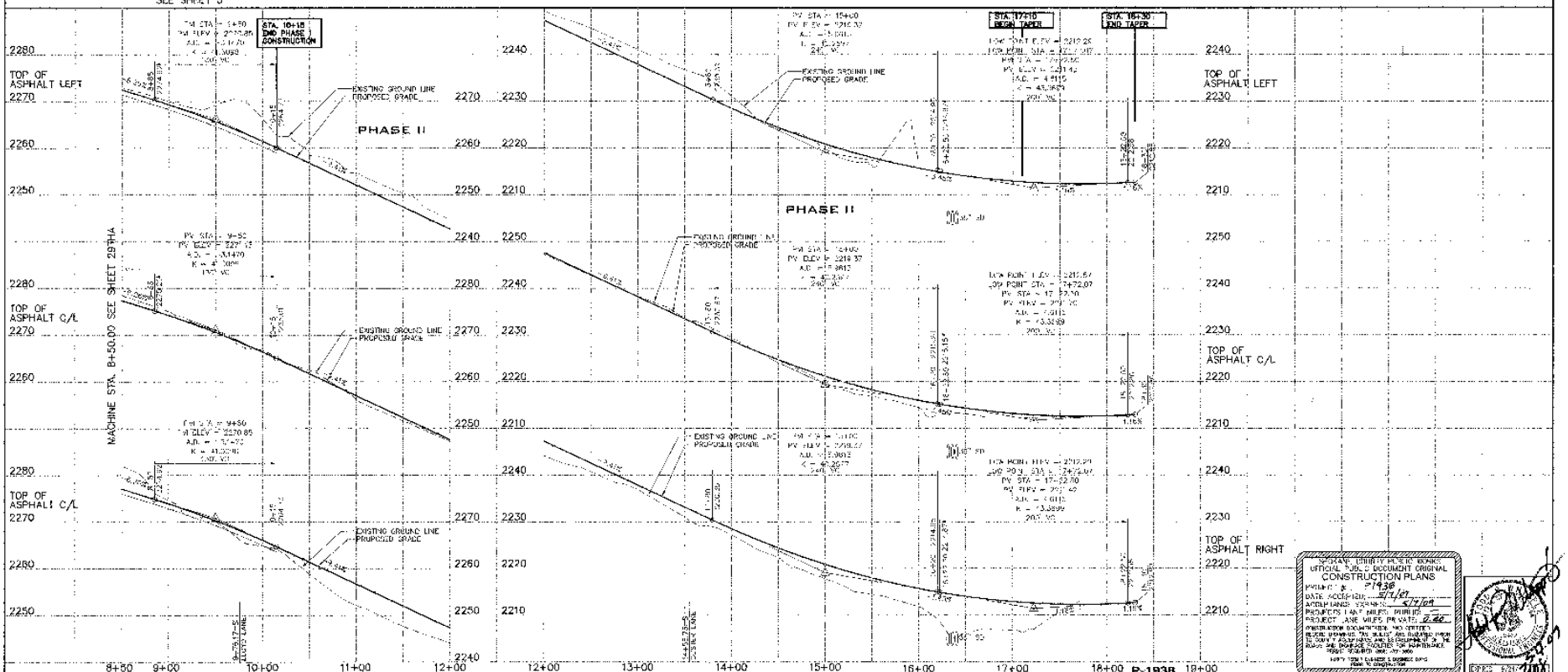
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



GRAPHIC SCALE

1 INCH = 50 FT.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	355.01	340.84	184.61	328.21	54°57'00"
C2	285.45	514.24	355.5	443.01	103°12'00"
C3	285.45	325.08	183.14	291.32	65°27'00"



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P1938
DATE ACCEPTED 5/4/07
ACCEPTANCE LETTER # 5/7/07
PROJECT LANE MILES: PUBLIC
PROJECT LANE MILES: PRIVATE 2.42
CONSTRUCTION INSPECTION NOTES
RECORD DRAWINGS: THE WORK AND RELATED ITEMS TO COUNTY ROADWAYS AND ESTABLISHMENT OF THE ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE PROJECT REVIEWED BY: JOE HUYBERT
NOTE: THIS PLAN IS NOT A RECORD DWG FROM THE CONSTRUCTION
EXPIRES 5/31/2008

NAVD-88 DATUM
MONUMENT: BENCHMARK NY56
MP STAMPED "BENCH 2" ALONG ED
ELEVATION = 1749.86
START ALTITUDE OF PARABOLA
STA. = 9+00.01 ALONG ℄
ELEVATION = 2266.60

DEVELOPER'S APPROVAL — DATE 5-4-07

NO.	DATE	BY	REVISIONS
	04/19	RLM	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
		MLM	PLAN PREPARATION

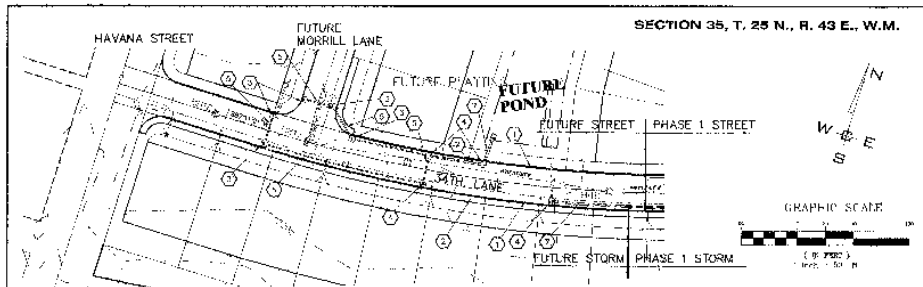
SCALE: HORIZONTAL: 1" = 50' VERTICAL: 1" = 10'
PROJ #: 2005-175
DATE: 05/04/07
DRAWN: RLM
APPROVED: TRW

WCE
WHITE CONSULTING ENGINEERS
CIVIL • LAND DEVELOPMENT • SURVEYING
PO BOX 1181 • 101 N. ARTHUR
SPOKANE, WASHINGTON 99201
PHONE: 509-327-7963 FAX: 509-326-0527

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
29TH. AVENUE STA. 8+50.00 TO STA. 18+30.00
SPOKANE COUNTY, WASHINGTON

SHEET 5B OF 9
JOB NUMBER 2005-175

P-1938 Eng Road Drainage

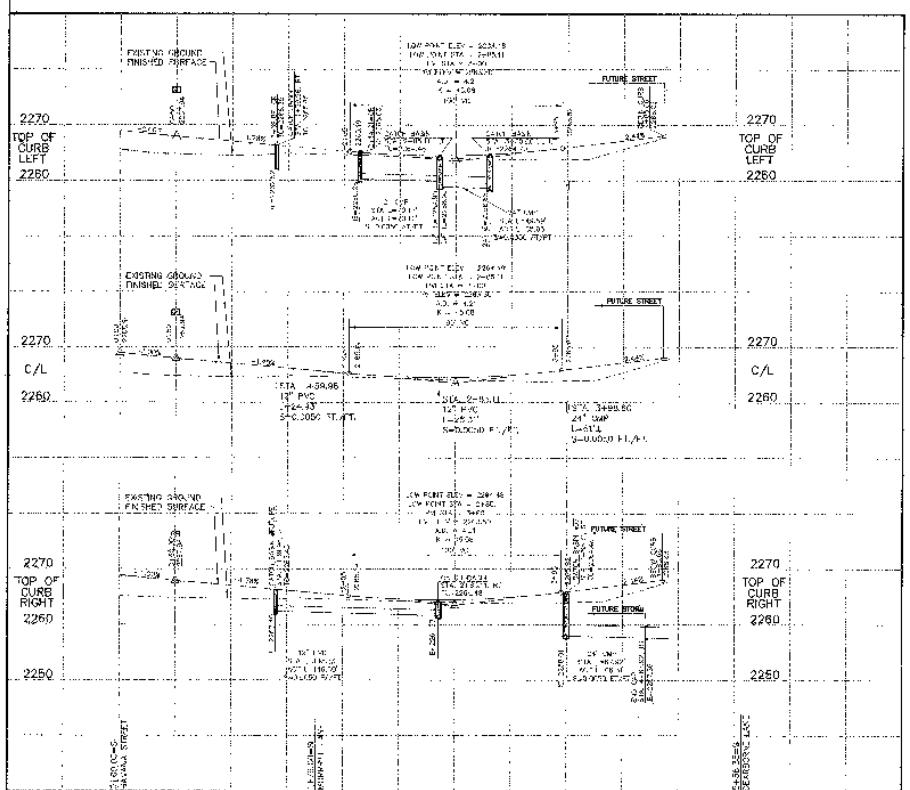


CONSTRUCTION NOTES

1. TYPE "B" CURB
2. 6" P.L. SD PIPE
3. TYPE "1" CATCH BASIN TYPE "2" FRAME AND LOCK, AND TYPE "1" GRATE
4. W.S.D.O.T. 48" TYPE "2" CATCH BASIN B-C.20-00 WITH TYPE "1" METAL FRAME AND GRATE.
5. 12" PVC STORM DRAIN PIPE.
6. 18" CSPD.
7. 24" RMP STORM DRAIN PIPE

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

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1133.00'	12.75	2.38	42.94	[illegible]
C2	30.00'	73.46	26.54	54.75	[illegible]
C3	30.00'	34.49	18.45	47.31	[illegible]
C4	[illegible]	35.62	22.74	36.28	[illegible]
C5	30.00'	57.68	42.87	49.74	[illegible]



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT OR SIGNAL
CONSTRUCTION PLANS
PROJECT #: [illegible]
DATE ACCEPTED: 3/2/09
ACCEPTANCE EXPIRES: 3/2/09
PROJECTS LANE MILES: [illegible]
PROJECT LANE MILES PRIVATE: [illegible]
CONFIDENCE EXCAVATION AND DEVELOPER RESPONSIBLE DRAINAGE FACILITIES TO ARE BROUGHT PRIOR TO COUNTY ACCEPTANCE AND DEVELOPMENT OF THE ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE PERIOD REQUIRED (365 DAYS)
[illegible]
PRIOR TO CONSTRUCTION.

P-1938

NAVD-88 DATUM
NON-EQUIVALENT LEVELS OVER HAVANA
MT 10-08 CBM NO VR8290-201
B. POINTS: [illegible]
SHEET CONTROL NO. [illegible]
[illegible]
B. POINT [illegible]

DEVELOPER'S APPROVAL — DATE: 2-2-7

NO.	DATE	BY	REVISIONS
	08/28	MLM	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
			PLAN PREPARATION

SCALE: HORIZONTAL: 1"=50 VERTICAL:

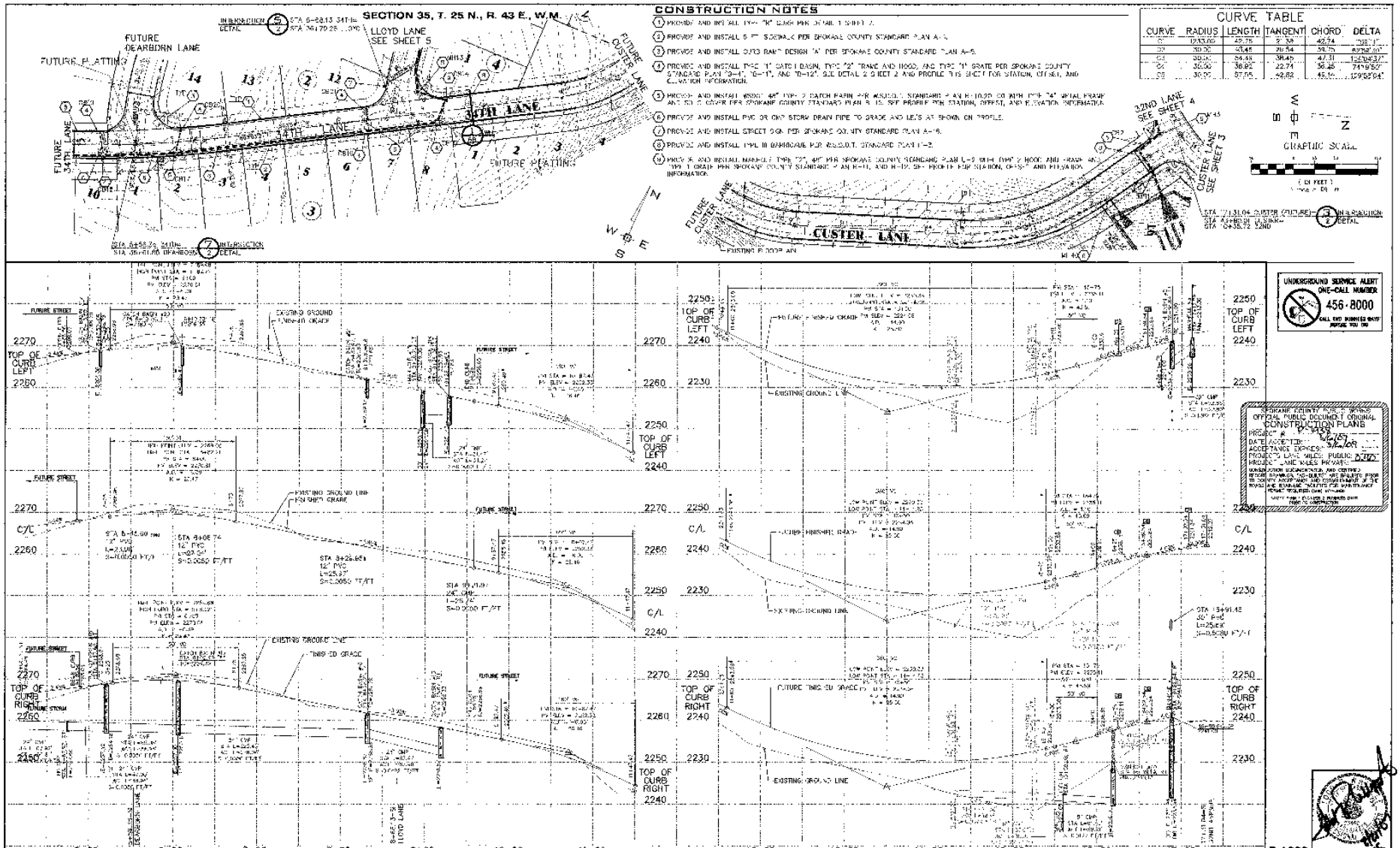
PROJ #: 2006-175
DATE: 12/18/08
DRAWN: MLM
APPROVED: TRW

WCE
WILSON ENGINEERS, INC.
CIVIL ENGINEERS • PLANNERS • SURVEYORS
[illegible]

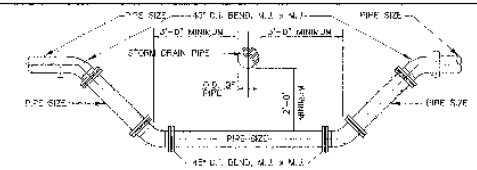
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
FUTURE 34TH. LANE STA. 0+00 TO STA. 4+85.66
SPOKANE COUNTY, WASHINGTON

SHEET 8 OF 9
JOB NUMBER 2006-175

P-1938 Eng Road Drainage

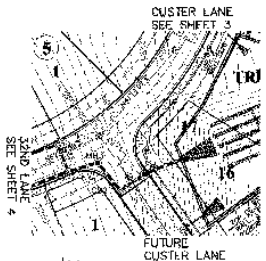

SECTION 35, T. 25 N., R. 43 E., W.M.
CONSTRUCTION NOTES
CURVE TABLE
CURVE RADIUS LENGTH TANGENT CHORD DELTA
FUTURE DEARBORN LANE
FUTURE PLATTING
LLOYD LANE SEE SHEET 5
34TH LANE
FUTURE 34TH LANE
FUTURE CUSTER LANE
32ND LANE SEE SHEET 4
CUSTER LANE SEE SHEET 3
CUSTER LANE
GRAPHIC SCALE
UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 456-8000
OFFICIAL PUBLIC DOCUMENT ORIGINAL CONSTRUCTION PLANS
TOP OF CURB LEFT
TOP OF CURB RIGHT
EXISTING GROUND LINE
FUTURE FINISHED GRADE
FUTURE STREET
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
P-1938
NAVD-88 DATUM
DEVELOPER'S APPROVAL
DATE
SUBMITTAL TO SPOKANE COUNTY ENGINEERS
PLAN PREPARATION
SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'
PROJ #: 2005-175
DATE: 12/19/06
DRAWN: MLM
APPROVED: TRW
WCE
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
34TH. LANE - FUTURE CUSTER
STA. 4+85.66 TO STA. 9+58.26
SPOKANE COUNTY, WASHINGTON
SHEET 6A OF 9
JOB NUMBER 2005-175
P-1938
England Drainage

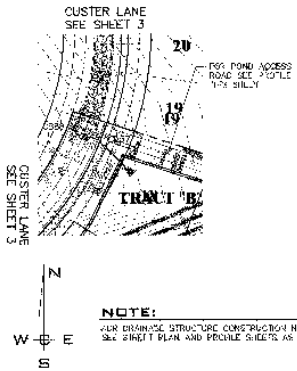
SECTION 35, T. 25 N., R. 43 E., W.M.

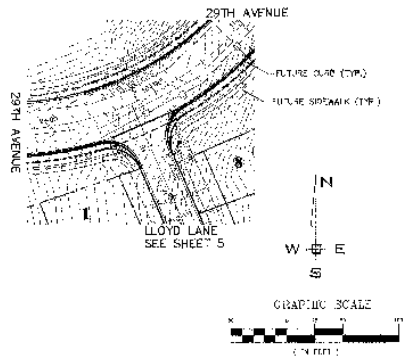


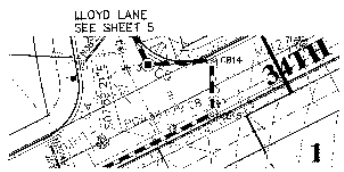
WATER MAIN AT STORM DRAINAGE LINE CROSSING DETAIL

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



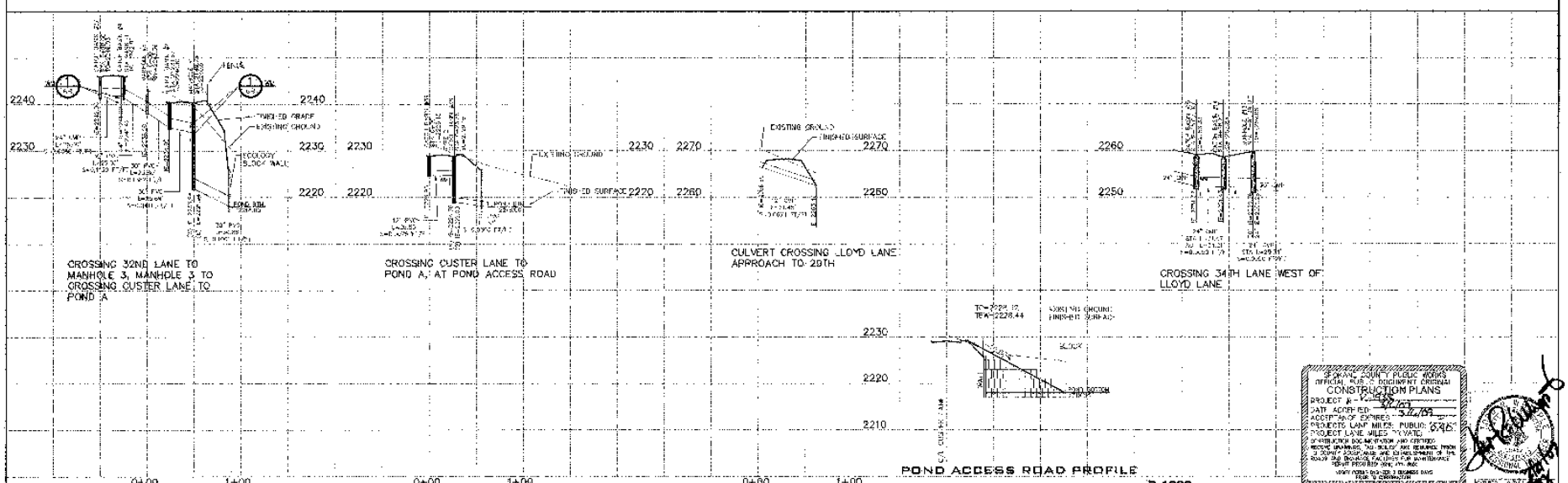






NOTE:
FOR DRAINAGE STRUCTURE CONSTRUCTION NOTES, SEE STREET PLAN AND PROFILE SHEETS AS SHOWN

GRAPHIC SCALE



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL RUSH DOCUMENT ORIGINAL
CONSTRUCTION PLANS
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT LANE MILES: PUBLIC:
PROJECT LANE MILES: PRIVATE:

P-1938

NAVD 88 DATUM

DEVELOPER'S APPROVAL

2-2-7
DATE

NO.	DATE	BY	REVISION
	03/31	MEK MLM	SUBMITTAL TO SPOKANE COUNTY ENGINEERS PLAN PREPARATION

SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=10'
PROJ #: 2005-175
DATE: 12/10/06
DRAWN: MLM
APPROVED: TRW

IWCE

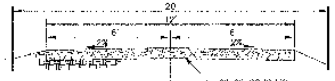
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
STORM DRAIN PROFILES - DETAIL
SPOKANE COUNTY, WASHINGTON

SHEET 6B OF 9
JOB NUMBER 2005-175

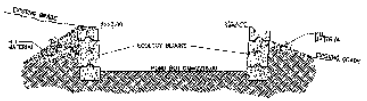
P-1938

SECTION 35, T. 25 N., R. 43 E., W.M.

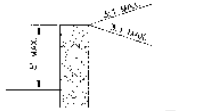
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



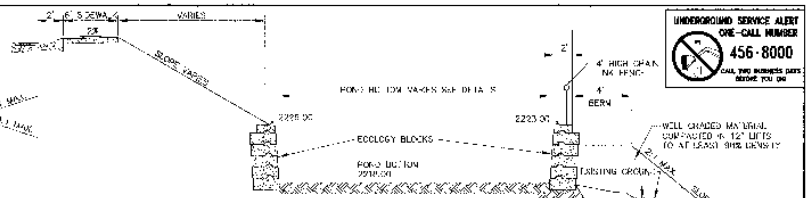
ACCESS ROAD CROSS SECTION
NOT TO SCALE



POND BOTTOM SECTION (C)
NOT TO SCALE

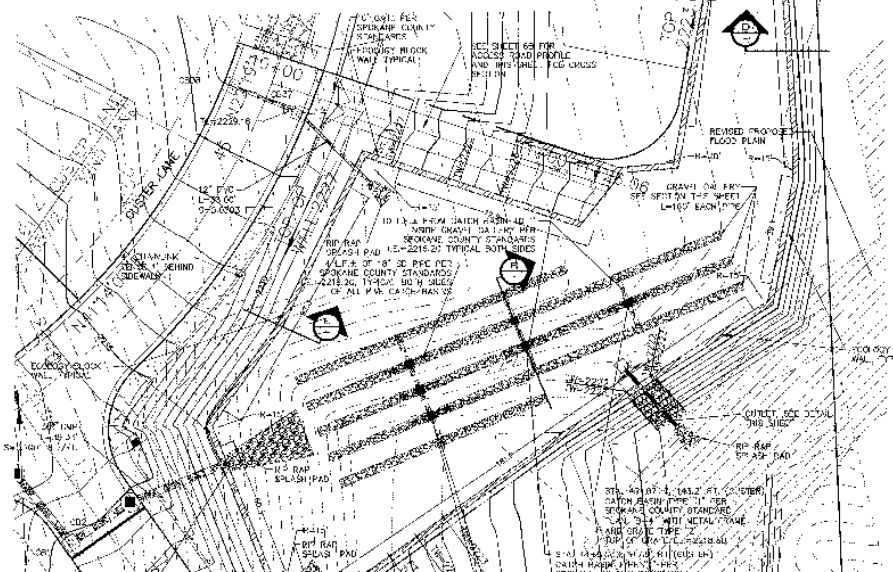


RETAINING WALL (D)
NOT TO SCALE

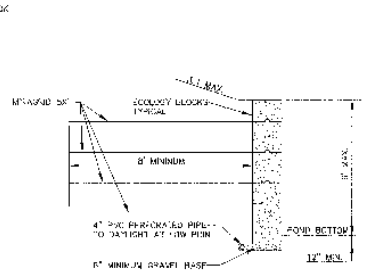


NOTES:
1. GENERAL REFERENCE GUIDELINES AND PAD BASED ON SPOKANE COUNTY CURRENT MANUAL FOR STORMWATER MANAGEMENT.
2. BOTTOM OF POND AND NON-BERM AREAS OF POND SHALL BE PLANTED WITH NATIVE-TYPE GRASSES ACCLIMATED TO ARID CONDITIONS. (PORTLAND GRASSES). SEE NOTE BELOW.
3. THE BASE OF THE BERM SHALL BE FIRM, UNYIELDING SUBGRADE. FREE OF ORGANICS AND FILL MATERIAL.
4. STANDARD DENSITY SHALL BE IN ACCORDANCE WITH A.S.T.M. D 1557.

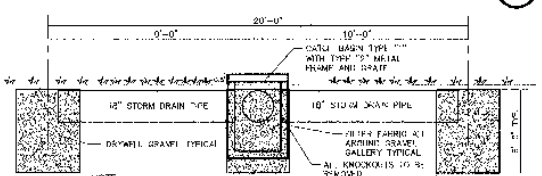
TYPICAL POND SECTION (A)
NOT TO SCALE



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



RETAINING WALL (E)
NOT TO SCALE



NOTE:
CATCH BASIN TYPE "1" HAS 20" KNOCKOUTS ON ALL SIDES. CONTRACTOR SHALL KNOCK A 12" PIPE AND INSTALL 12" STORM DRAIN PIPE TO THE WEST AND EAST ONLY. NORTH AND SOUTH LEAVE OPEN.

SECTION (B)
NOT TO SCALE

POND A	
BOTTOM ELEVATION	2218.00
BOTTOM AREA (APPROX.)	= 41,700 S.F.
TOP OF WALL ELEVATION	= VARIES (2222.00 TO 2226)

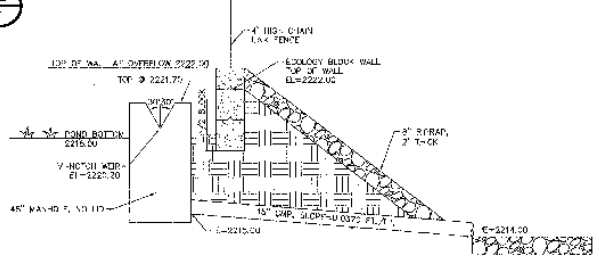
NOTE:
GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICAN. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

20 PER CENT PIKA PERENNIAL RYE
20 PERCENT CURAR HARD FESCUE
40 PERCENT COVAR SHEEP FESCUE
5 PERCENT REJUDERS CANADIAN BLUEGRASS

PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:

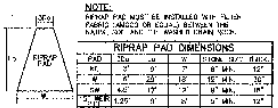
GRASS SEED: 80 LBS. PER ACRE
FERTILIZER: 16-16-16 (WITH RELEASE COMPOSITION) 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, DIVISION 8-01.



OUTLET DETAIL (2)
NOT TO SCALE

LINE TABLE		
LINE	LENGTH	BEARING
L1	8.55'	N82°19'16"W
L2	14.29'	N77°56'37"W
L3	11.07'	S27°10'28"W
L4	20.01'	S82°09'53"W
L5	84.79'	S38°09'55"W
L6	89.00'	N01°18'37"W
L7	67.34'	S78°45'09"W
L8	44.00'	S38°09'55"W
L9	3.55'	S82°09'53"E
L10	0.85'	N54°15'56"E
L11	23.50'	N78°18'55"E
L12	4.50'	N70°18'55"E
L13	1.24'	N80°18'55"E
L14	16.58'	N70°18'55"E



NOTE:
RIPRAP PAD MUST BE INSTALLED WITH FILTER FABRIC UNDER OR EQUAL BETWEEN THE RIPRAP AND THE WASHED DRAIN ROCK.

RIPRAP PAD DIMENSIONS						
PAD NO.	"D"	"W"	"X"	"Y"	RIPRAP SIZE	FABRIC
1	8'	10'	10'	7'	6" MIN.	10'
2	8'	8'	20'	18'	12" MIN.	30'
3	8'	4.5'	17'	13'	6" MIN.	18'
3 (ALTERNATE)	1.25'	8'	8'	5'	6" MIN.	12'
4 (NEW)	1.7'	12'	12'	36'	1.5-4.0"	2' WIDE

* WITH 1 FT. PER HOUR OR ONLY ZONE SMALLER

TYPICAL RIPRAP PAD (3)
NOT TO SCALE

P-1938

NAVD-88 DATUM

DEVELOPER'S APPROVAL — DATE

NO.	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
08-01		MLM	PLAN PREPARATION

SCALE: HORIZONTAL: AS SHOWN; VERTICAL: N/A

PROJ #: 2005-175; DATE: 12/18/06; DRAWN: MLM; APPROVED: RWW

WCE
CIVIL ENGINEERS • PLANNERS
1141 N. EDGEMONT
SPOKANE VALLEY, WASHINGTON 99216
PH: (509) 924-7286 FAX: (509) 924-0231

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
POND DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET 7 OF 9
JOB NUMBER 2005-175

P 1938 Eng Bad Drainage

EROSION CONTROL PLAN FOR

SOUTHRIDGE PUD, PHASE 1

SEC. 35, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

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

EROSION & SEDIMENT CONTROL

GENERAL NOTES AND INFORMATION

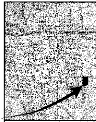
1. AN EROSION/SEDIMENT CONTROL (E.S.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE **E.S.C. PLAN**, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE **E.S.C.** FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY **SPOKANE COUNTY**, OR 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. SEE DETAIL 2 THIS SHEET.
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: LANZCE DOUGLASS, INC**
   APPLICANT: LANZCE DOUGLASS
   CONTACT PERSON ON SITE: CLIFF CAMERON
9. PROJECT LOCATION: IN SPOKANE COUNTY, EAST OF HAVANA STREET AND SOUTH OF 29TH AVENUE IN SECTION 35, TOWNSHIP 25N., RANGE 43 E.W.M.
10. PROJECT DESCRIPTION: **SOUTHRIDGE** P.U.D. PHASE 1, IS A RESIDENTIAL SUBDIVISION CONSISTING OF 50 LOTS AND WILL REQUIRE CONSTRUCTION OF SEWER, WATER, ROADS, AND STORM DRAINAGE. THE IMPROVEMENTS CONSIST OF APPROXIMATELY 3,600 LINEAR FEET OF DRAINAGE AND ELECTRICAL FACILITIES, 3,600 LINEAR FEET OF NEW PRIVATE STREETS AND CURBS, WITH ASSOCIATED STORM DRAINAGE.
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: LONG GRASS AND TREES.
13. PLAN PREPARATION DATE: APRIL 1, 2006.
14. SOILS ON SITE: SOILS (MaB) MARBLE SANDY LOAM, (MaC) MARBLE LOAMY SAND, (HhP) HESSELTINE STONY SILT LOAM, AND (CA) CALDWELL SILT LOAM
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. **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.
18. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE **SPOKANE COUNTY** DEPARTMENT OF BUILDING AND PLANNING AT 509-477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.

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.

[signature] 3/8/07
ENGINEER



SITE

VICINITY MAP

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN **SPOKANE COUNTY** REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE **SPOKANE COUNTY** INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY 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 THE **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 REQUIREMENT FROM THE **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.
20. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 509-477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.

COUNTY ENGINEER
SPOKANE COUNTY ENGINEERS
1026 WEST BROADWAY AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-477-3600
FAX: 509-477-7478
CONTACT: MATT ZARECOR, P.E.

SEWER
CITY OF SPOKANE
808 W. SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201
PHONE: 509-625-6300
FAX: 509-625-6310
CONTACT: KRIS BECKER, P.E.

POWER
AVISTA UTILITIES
1411 EAST MISSION AVENUE
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PHONE: 509-495-4771
FAX: 509-495-8773
CONTACT: CHRIS FRACZ

FIRE DEPARTMENT
FIRE DISTRICT NO. 8
12100 E. PALOUSE HIGHWAY
VALLEYFORD, WA 99036
PHONE: 509-926-6699
FAX: 509-924-8368
CONTACT: DAN BLYSTONE

TELEPHONE
QWEST
904 NORTH COLUMBUS
SPOKANE, WASHINGTON 99202
PHONE: 509-455-2590
FAX: 509-455-2024
CONTACT: DAVE CLARK

NATURAL GAS
AVISTA UTILITIES
1411 EAST MISSION AVENUE
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FAX: 509-495-8773
CONTACT: LOIS McCAIN

WATER PURVEYOR
CITY OF SPOKANE
914 N. FOOTHILLS
SPOKANE, WASHINGTON 99207
PHONE: 509-625-7800
FAX: 509-625-7815
CONTACT: CHRIS PETERSCHMIDT, P.E.

CABLE
COMCAST BROADBAND
1717 EAST BUCKEYE
SPOKANE, WASHINGTON, 99207
PHONE: 509-484-4611
CONTACT: BRYAN RICHARDSON

SOLID WASTE
WASTE MANAGEMENT
PHONE: 509-463-3400

SURVEYOR
CLIFF CAMERON
P.O. BOX 841
COLBERT, WASHINGTON 99005
PHONE: 509-467-0148
CONTACT: CLIFFORD E. CAMERON, P.L.S.

INSPECTION
ALLWEST
EAST 12928 INDIANA AVENUE
SPOKANE VALLEY, WA 99216
PHONE: 509-534-1411
FAX: 509-534-0326
CONTACT: PAUL T. NELSON, P.E.

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

OWNER
LANZCE DOUGLASS, INC.
1402 E. MAGNESIUM ROAD
SPOKANE, WA 99217
PHONE: 509-483-4968
FAX: 509-483-1572
CONTACT: LANZCE DOUGLASS

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 THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1938
DATE ACCEPTED: 3/6/07
ACCEPTANCE EXPIRES: 3/6/09
PROJECT LANE MILES PUBLIC: ———
PROJECT LANE MILES PRIVATE: .640
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.

NAVD 88 DATUM
MONUMENT ...
ELEVATION ...
SPIKE AT CENTERLINE OF HAVANA STREET AND 29TH AVENUE
ELEVATION ...

NO.	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	03/31	MLM	PLAN PREPARATION

SCALE:	
HORIZONTAL:	N.T.S.
VERTICAL:	N/A
PROJ #:	2005-175
DATE:	12/18/06
DRAWN:	MLM
APPROVED:	TRW

WCE
WHIPPLE CONSULTING ENGINEERS

P-1938

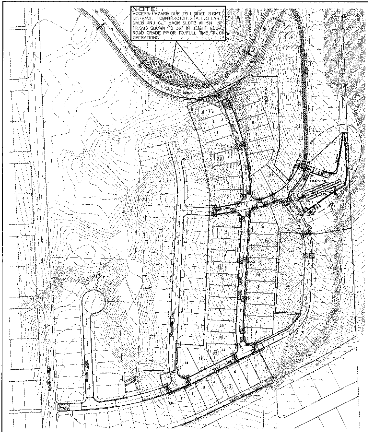
STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
EROSION CONTRO PLAN
SPOKANE COUNTY, WASHINGTON

SHEET 8 OF 9

JOB NUMBER 2005-175

P-1938   ENG ROAD - DRAINAGE

SECTION 35, T. 25 N., R. 43 E., W.M.



SITE PLAN
SCALE: 1" = 100'

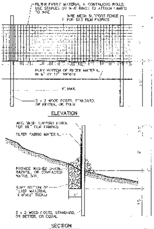
LEGEND

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

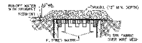
GRAVEL AND WIRE MESH INLET SEDIMENT FILTER. SEE DETAIL 2, THIS SHEET.

SILT FENCE. SEE DETAIL 1 AND GENERAL NOTE 5.

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

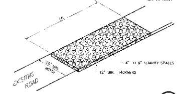


SILT FENCE DETAIL (1)
NOT TO SCALE



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 AREAS.

GRAVEL AND WIRE MESH INLET SEDIMENT FILTER (2)
NOT TO SCALE



ROCK CONSTRUCTION ENTRY (3)
NOT TO SCALE

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

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECTS LANE MILES, PUBLIC: 0.20
PROJECT LANE MILES PRIVATE:

P-1938

NAVD-88 DATUM

DEVELOPER'S APPROVAL — DATE 2-16-7

NO.	DATE	BY	REVISIONS
		MEK	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	09/06	MLM	PLAN PREPARATION

SCALE:
HORIZONTAL: AS SHOWN
VERTICAL: N/A

PROJ #: 2006-175
DATE: 12/18/06
DRAWN: MLM
APPROVED: TRW

WCE

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 1
EROSION CONTROL DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET 9 OF 9

JOB NUMBER 2006-175

P-1938 England Drainage