WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION

SW QTR. S.20, T.27 N., R.43 E., W.M.

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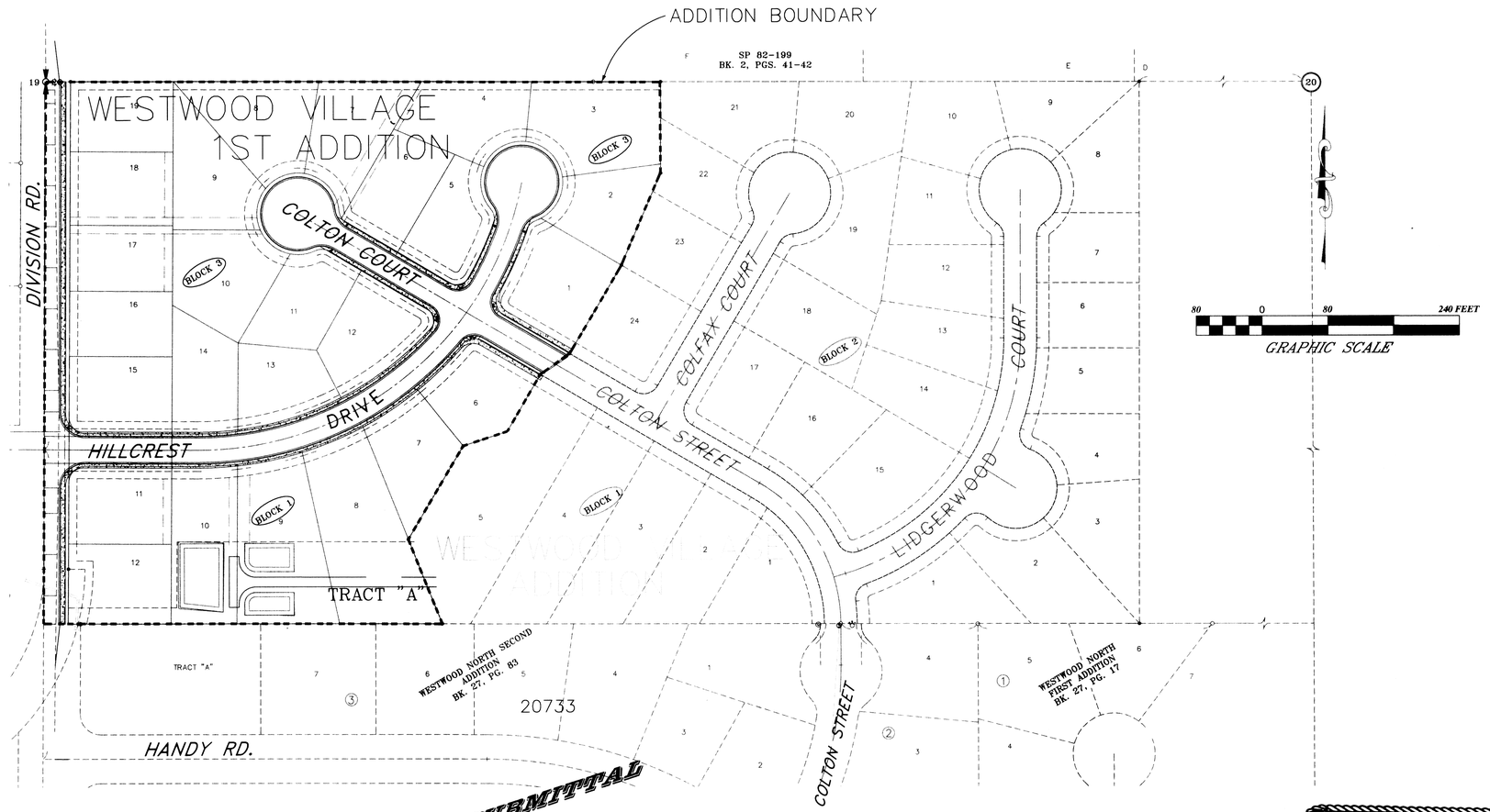
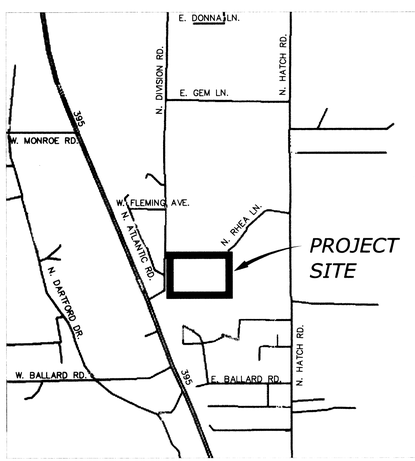
*** NOT INCLUDED THIS SUBMITTAL**



SITE MAP



VICINITY MAP
N.T.S.

STREET & STORM WATER SUBMITTAL
SHEETS 1, 2, 5 & 10 - 16

SPONSOR'S ACKNOWLEDGMENT

MR. ROD V. PLESE
PROJECT SPONSOR'S REPRESENTATIVE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1929A
DATE ACCEPTED: 6/7/06
ACCEPTANCE EXPIRES: 6/7/08
PROJECT LANE MILES PUBLIC: 0.21
PROJECT LANE MILES PRIVATE: —
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 ENGINEERING 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT SPONSOR
PLESE, GRAHAM, GEORGIAN, PARTNERSHIP, LLC.
PLESE REALTY
201 W. FRANCIS
SPOKANE, WA 99205
PHONE: 1-509-489-2323
FAX: 1-509-489-3333

SURVEYOR:
JAMES F. BENTHIN & ASSOCIATES
1004 N. ATLANTIC ST.
SPOKANE, WA 99201-2209
PHONE: 1-509-325-4529
FAX: 1-509-325-4520

ENGINEER:
DELEO & ASSOCIATES
1611 N. MOLTER RD.
LIBERTY LAKE, WA 99019
PHONE: 1-509-922-4973
FAX: 1-509-922-1783

ENGINEER'S CERTIFICATION

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS & CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD & SEWER CONSTRUCTION & THE SPOKANE COUNTY GUIDELINES FOR STORM WATER MANAGEMENT. THE SPOKANE COUNTY ENGINEER HAS APPROVED ALL DESIGN DEVIATIONS. I APPROVE THESE PLANS FOR CONSTRUCTION.

ENGINEER'S CERTIFICATION — DATE 5/17/06

VERTICAL DATUM:
BASED ON AS BUILT INVERT ELEVATION OBTAINED FROM SPOKANE CO. UTILITIES FOR SANITARY SEWER MANHOLE AT 18020 COLTON ST., NEAR CL OF COLTON ST. & S. LINE OF PLAT, AS SHOWN ON PLAN "WESTWOOD NORTH 2ND ADDITION, COLTON ST., SHT. 5 OF 7":
I.E.= 1929.60'
RIM= 1936.81'
TBM= #4 REBAR W/YPC #29286 @ CL COLTON ST. @ PLAT BOUNDARY: EL.= 1936.65'

JOHN A. DELEO — STATE OF WASHINGTON — 22875 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 10/11/06 — 5/17/06

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD	DATE	REVISIONS
DATE 5-16-06	PROJECT NAME WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: COVERSHEET.DWG	PROJECT NO. PGGR0301		

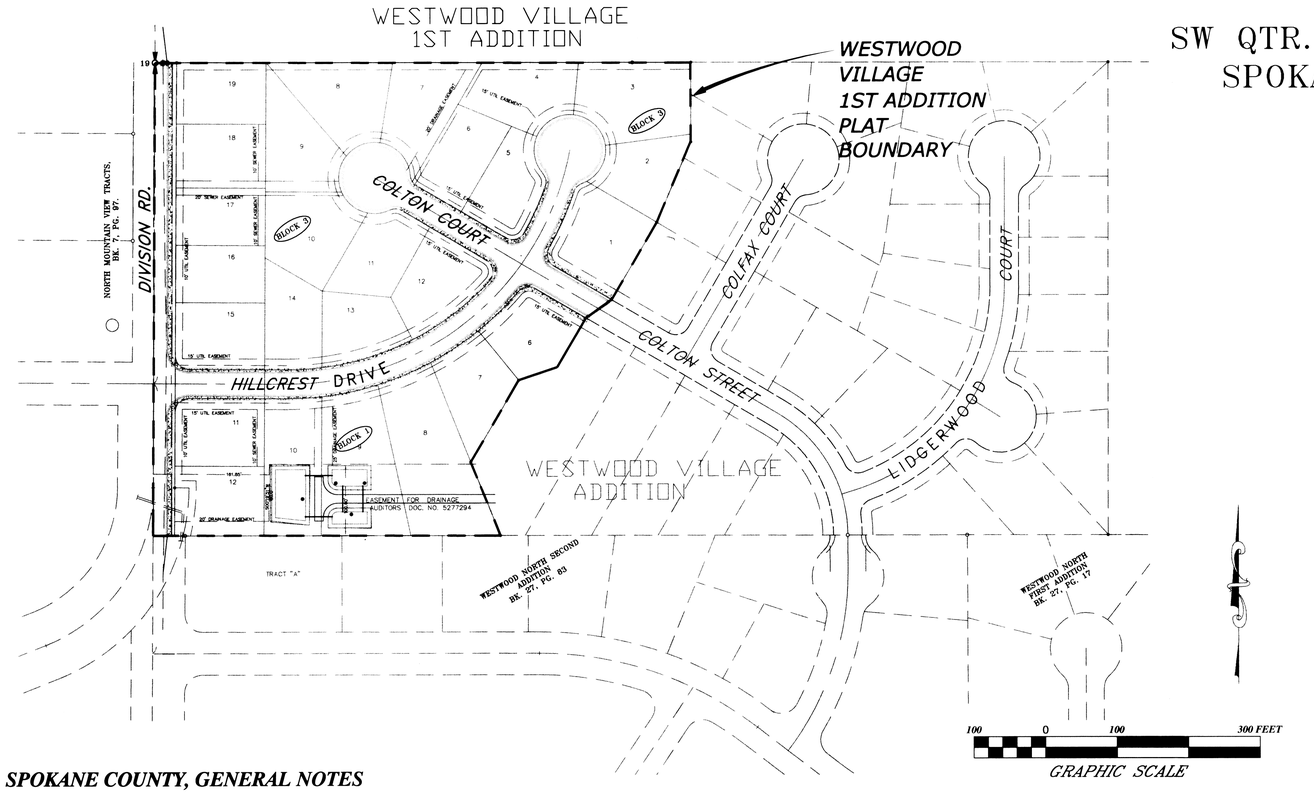
DELEO & ASSOCIATES, INC. 1611 N. MOLTER RD. LIBERTY LAKE WA 99019 (509)-922-4973 Fax (509) 922-1783

PROJECT: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION
PLAT NO. PN 1929-03

SHEET NAME: COVER SHEET

SHEET 1/16

P-1929A Eng Cert Drawings



SW QTR. S.20, T.27 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON

SPOKANE COUNTY, GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, & CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS & SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS & APPLICABLE STATE & FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS & THE SPECIFICATIONS, OR APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED & APPROVED BY SPOKANE COUNTY. CONSTRUCTION OBSERVATION SERVICES & CERTIFICATION TO BE PROVIDED BY THE ENGINEER OF RECORD. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS & SPECIFICATIONS.

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 SHALL NOT BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS & ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS & 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 ENGINEER & SPOKANE COUNTY AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY & ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE & COOPERATE WITH THE SPOKANE COUNTY UTILITIES DEPARTMENT & ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION & TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION & 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 & SPECIFICATIONS, & A COPY OF ANY PERMITS & 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, & SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY, SPOKANE COUNTY, FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY & ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE & CLEAR OF ALL CONSTRUCTION DEBRIS & 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 & AVAILABLE TO THE SPOKANE COUNTY INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT & CONSTRUCTION SHALL NOT BE SCALED FROM THE DRAWINGS. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION & ANNOTATE THE DIMENSION ON THE RECORD DRAWINGS.

14. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER & SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES & DRY UTILITIES.

15. THE CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR ALL WORK IN PUBLIC ROADS & R.O.W.'S TO THE SPOKANE COUNTY ENGINEER BEFORE BEGINNING ANY WORK ON THESE ROADS. CONTRACTOR SHALL BEGIN WORK ONLY AFTER THE SPOKANE COUNTY ENGINEER APPROVES THE PHASING PLAN, & A PRE CONSTRUCTION MEETING IS HELD BETWEEN THE SPOKANE COUNTY ENGINEER, THE ENGINEER & THE CONTRACTOR.

16. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT & ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 6:00 A.M. & 10:00 P.M. EVERYDAY UNLESS OTHERWISE APPROVED BY SPOKANE COUNTY.

17. BASED ON A REQUIREMENT FROM SPOKANE COUNTY, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING & OBSERVE VARIOUS ASPECTS OF CONSTRUCTION ON THE PROJECT. THE ENGINEER WILL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION & RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.

18. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE SPOKANE COUNTY ENGINEER & NOTIFICATION OF THE ENGINEER OF RECORD.

19. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTOR'S SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

LEGEND:

EXISTING STREET SIGN
PROPOSED STREET SIGN
EXISTING UTILITY POLE
EXISTING WATER VALVE
PROPOSED WATER VALVE
PROPOSED FIRE HYDRANT
PROPOSED MANHOLE
EXISTING MANHOLE
CENTER LINE
SEWER LINE — SWR — SWR —
GAS LINE — GAS — GAS —
WATER LINE (EXISTING) — WA —
WATER LINE (PROPOSED)
RIGHT OF WAY LINE
PROPOSED SIDEWALK
PROPOSED GRAVEL
PROPOSED RIPRAP

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1929A
DATE ACCEPTED: 6/7/06
ACCEPTANCE EXPIRES: 6/7/08
PROJECT LANE MILES PUBLIC: 0.31
PROJECT LANE MILES PRIVATE: —
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) 477-3800
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

JOHN AUDRIEN DELEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
John A. De Leo
5/17/06
EXPIRES 10/11/06

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD	DATE	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: SHEET02.DWG	PROJECT NO.: PGGR0301		

DELEO & ASSOCIATES, INC. 1611 N. MOLTER RD. LIBERTY LAKE, WA 99019 (509)-922-4075 Fax (509) 922-1783

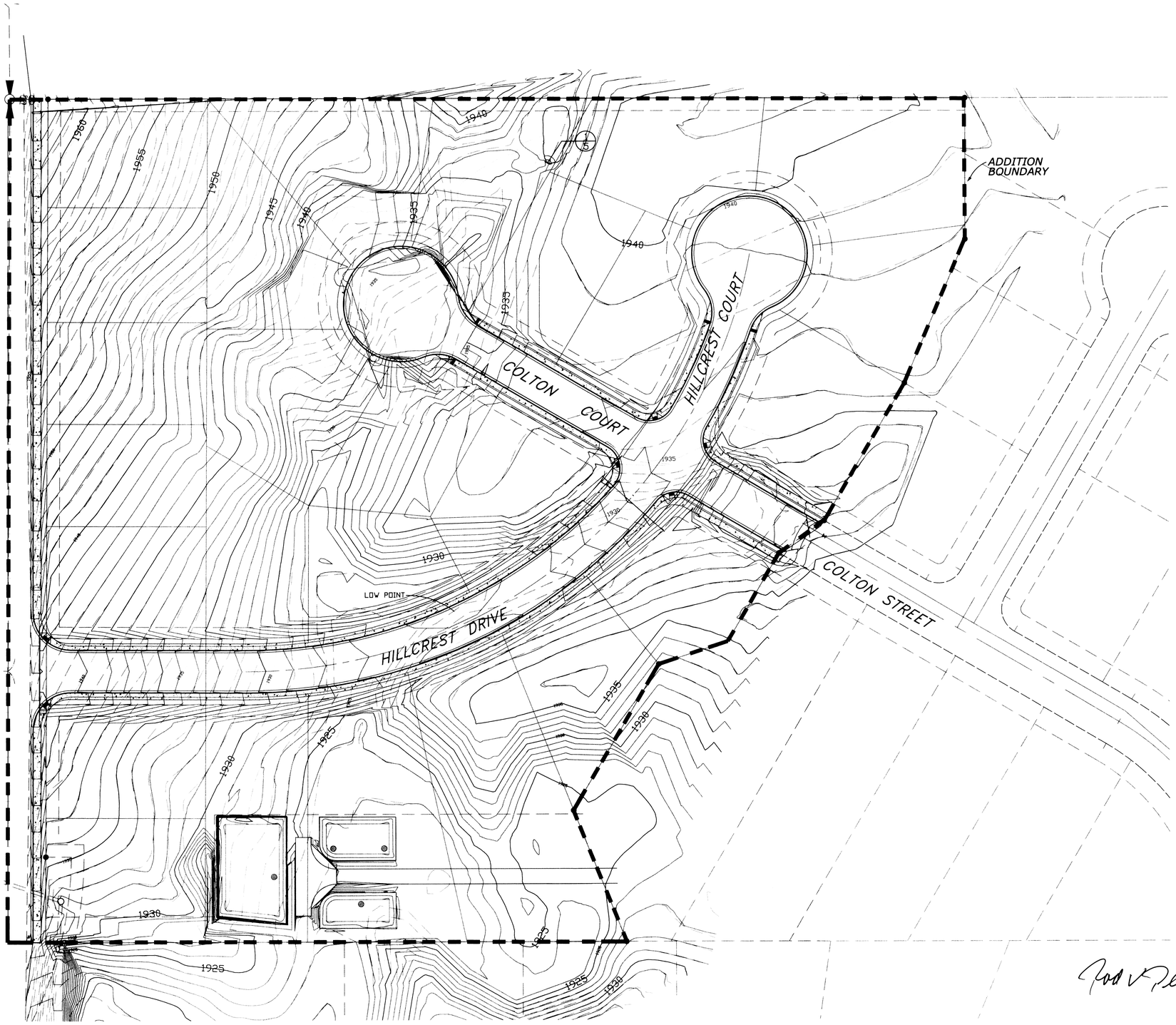
PROJECT: **WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION**
PLAT NO. PN 1929-03

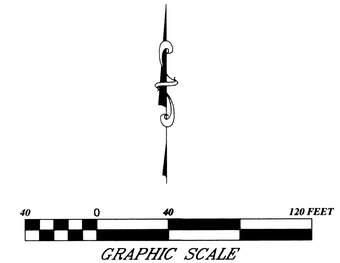
SHEET NAME: SITE PLAN & NOTES

SHEET 2/16

P-19290 Eng Bd Review

SW QTR. S.20, T.27 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON





SPOKANE COUNTY STANDARD NOTES FOR CONSTRUCTION PLANS:

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VERTICAL DATUM:
BASED ON AS BUILT INVERT ELEVATION OBTAINED FROM SPOKANE CO. UTILITIES FOR SANITARY SEWER MANHOLE AT 18020 COLTON ST., NEAR CL OF COLTON ST. & S. LINE OF PLAT, AS SHOWN ON PLAN "WESTWOOD NORTH 2ND ADDITION, COLTON ST., SHT. 5 OF 7":
I.E.= 1929.60'
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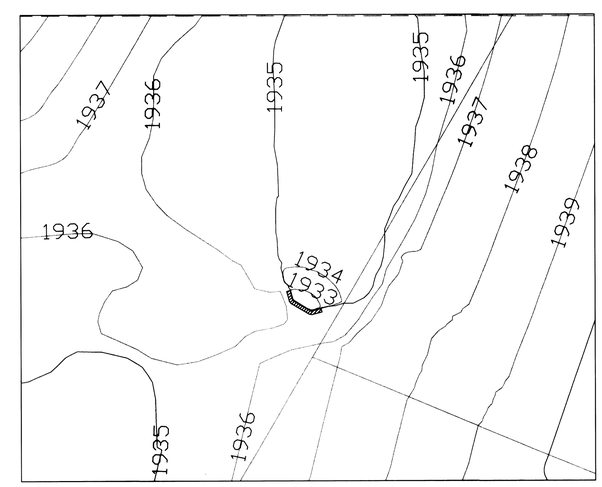
TBM= #4 REBAR W/YPC #29286 @ CL COLTON ST. @ PLAT BOUNDARY: EL.= 1936.65'



1/5 DETAIL - HEADWALL GRADING
NTS

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1929A
DATE ACCEPTED: 6/7/06
ACCEPTANCE EXPIRES: 6/7/08
PROJECT LANE MILES PUBLIC: 0.21
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

JOHN ANDREW DELEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES 10/11/06
5/17/06

DRAWN BY: SAE/MBM/TPD	APPROVED BY: JAD	DATE:	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE ADDITION SUBDIVISION		
DRAWING NO.: MISC\GRADING.DWG	PROJECT NO.: PGGR0301		

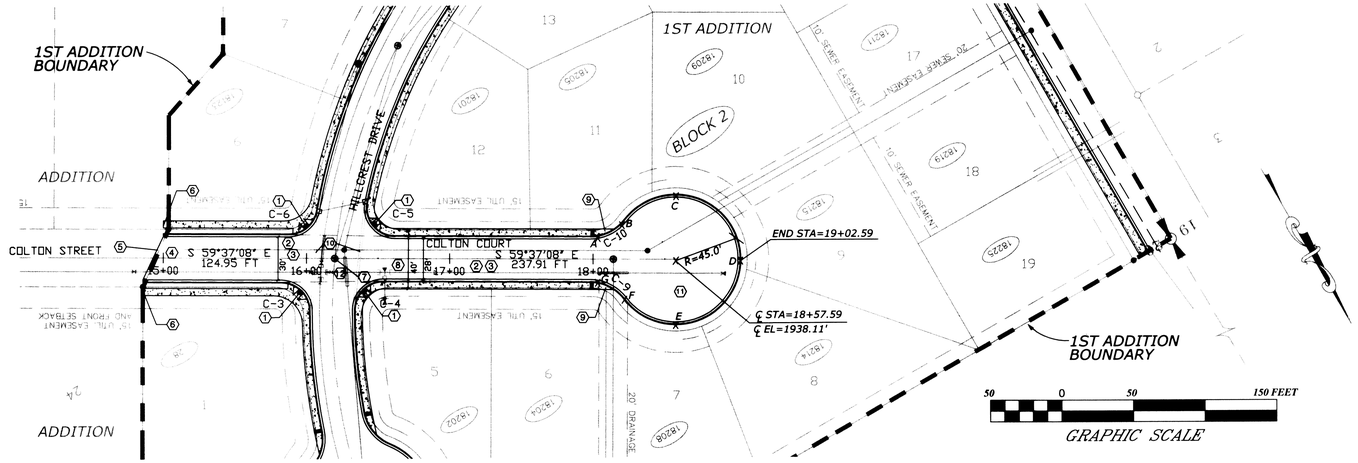
DELEO & ASSOCIATES, INC. 1611 N. MOLTER RD. LIBERTY LAKE, WA 99019 (509)-922-4873 Fax (509) 922-1783

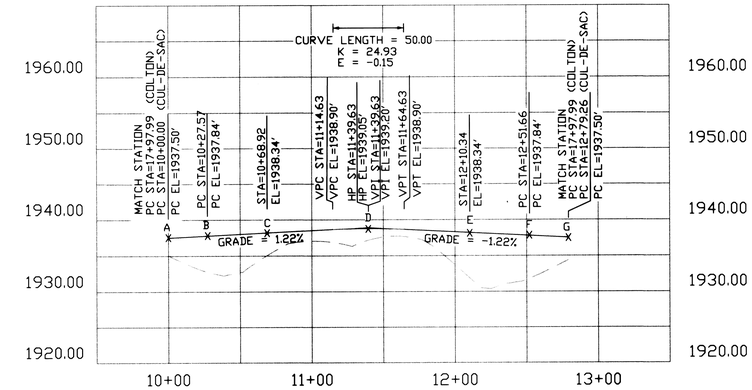
PROJECT: **WESTWOOD VILLAGE ADDITION SUBDIVISION**
PLAT NO. PN 1929-03

SHEET NAME: GRADING MASTER PLAN

SHEET 5/16

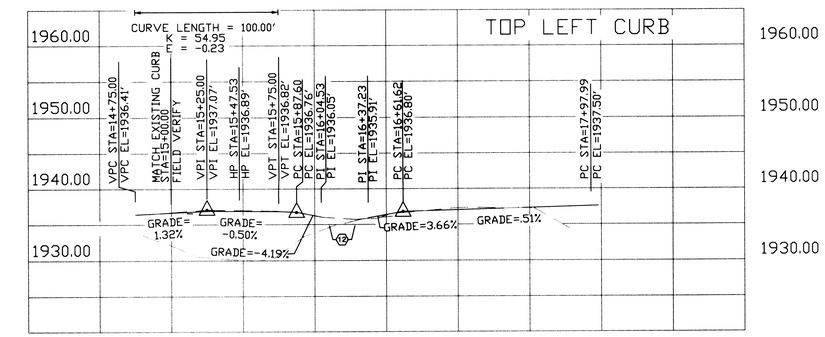
P-1929A Eng Bond Drawings

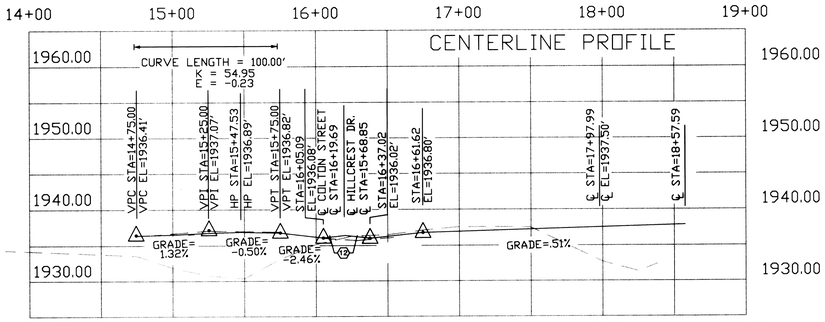


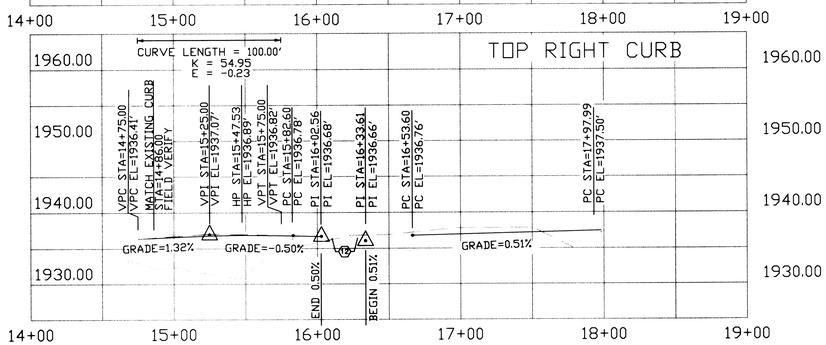


CUL-DE-SAC TOP OF CURB PERIMETER PROFILE

1' = 50' H
1' = 10' V







CONSTRUCTION NOTES:

1. CONSTRUCT WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5 DESIGN B. TYPICAL SECTION
2. PREPARE EXISTING GROUND SURFACE:
   A. REMOVE TREES, BRUSH, & SHRUBS.
   B. CLEAR AND GRUB SURFACE & REMOVE ALL TOP SOIL AND SOIL TO A DEPTH BELOW ORGANICS.
3. PLACE FILL IN LAYERS NOT TO EXCEED 8" UNCONSOLIDATED & COMPACT TO 90% OF MAXIMUM DENSITY PER ASTM D-1557. THIS REQUIREMENT IS FOR EMBANKMENT FILL 2 FT. BELOW ROAD SUBGRADE & DEEPER. FROM 2 FT. BENEATH ROAD SURFACE TO SUBGRADE PLACE LIFTS NOT TO EXCEED 4" UNCONSOLIDATED LIFT & COMPACT TO 95% MAXIMUM DENSITY PER ASTM D-1557.
4. TYPICAL SECTION SEE SHEET 15/16, DETAIL 2.
5. SAW CUT EXISTING ACP.
6. BEGIN SIDEWALK, MATCH EXISTING. COLTON STREET STA. 14+86.00± RT, STA. 15+00.00± LT.
7. CENTERLINE OF COLTON ST. STA= 16+19.69, & CENTERLINE OF HILLCREST RD. STA= 15+68.85.
8. TYPICAL SECTION. SEE SHEET 15/16, DETAIL 1.
9. END OF SIDEWALK. CONSTRUCT WHEELCHAIR RAMP PER WSDOT STANDARD PLAN F-3D, TYPE 4B.
10. CONCRETE CROSS GUTTER TYPE 1, PER SPOKANE COUNTY STANDARD PLAN B-18.
11. TYPICAL SECTION, SEE SHEET 15/16, DETAIL 3
12. SEE SHEET 15, DETAIL 11/15 FOR INTERSECTION DESIGN.

SPOKANE COUNTY STANDARD NOTES FOR CONSTRUCTION PLANS:

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3) THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD & DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

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

CURVE TABLE

CURVE	RADIUS	ARC	TANGENT	CHORD	DELTA
C1	400.00	382.85	207.51	368.40	54°50'20"
C2	400.00	174.00	88.40	172.63	24°55'25"
C3	20.00	31.38	19.96	28.26	89°53'10"
C4	20.00	31.41	19.99	28.28	89°58'44"
C5	20.00	35.36	24.39	30.93	101°17'07"
C6	20.00	28.10	16.93	25.84	80°29'17"
C7	30.00	25.50	13.58	24.74	48°42'38"
C8	30.00	30.02	16.40	28.78	57°19'44"
C9	30.00	27.57	14.84	26.61	52°39'09"
C10	30.00	27.57	14.84	26.61	52°39'08"
C11	30.00	47.20	30.08	42.48	90°09'14"
C12	30.00	47.04	29.92	42.37	89°50'46"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

JOHN ANDREW DeLEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
5/17/06
EXPIRES 10/11/06

CALL
BEFORE YOU DIG
456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

DRAWN BY: TPD/MBM/SAE	APPROVED BY: JAD	DATE:	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: STREET\COLTON.DWG	PROJECT NO. PGGR0301		

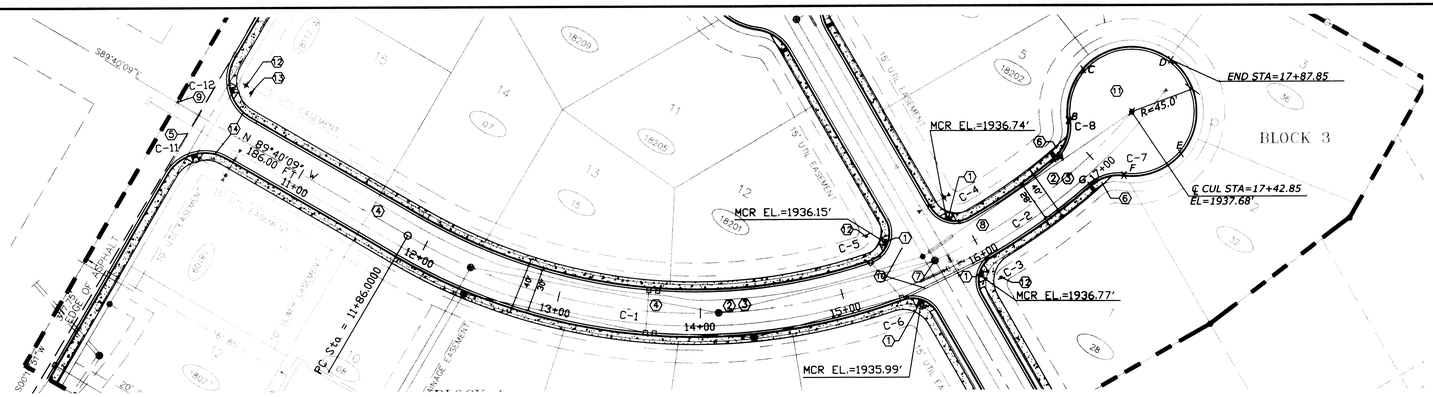
DELEO & ASSOCIATES INC. 1811 N. MOLTKE RD. LIBERTY LAKE, WA 99019 (509)-922-4075 Fax (509) 922-1783

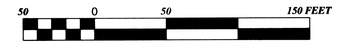
PROJECT: **WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION**
PLAT NO. PN 1929-03

SHEET NAME: COLTON STREET/COURT – STREET
STA 14+50 TO 19+00

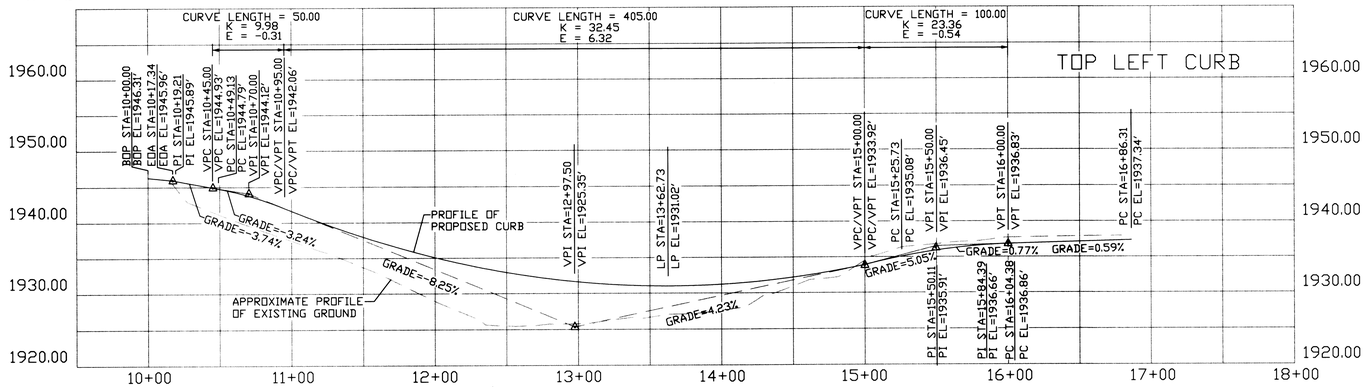
SHEET 10/16

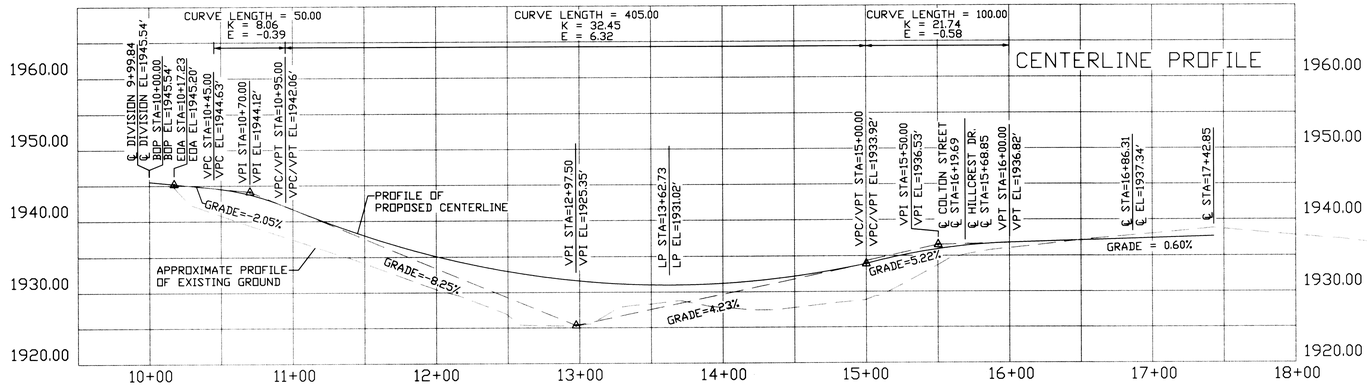
P-1929A

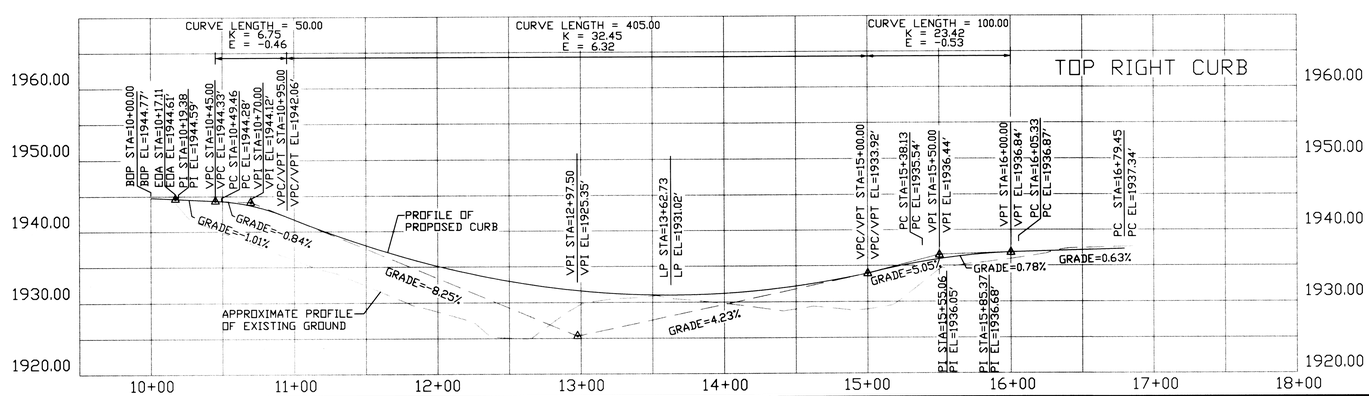


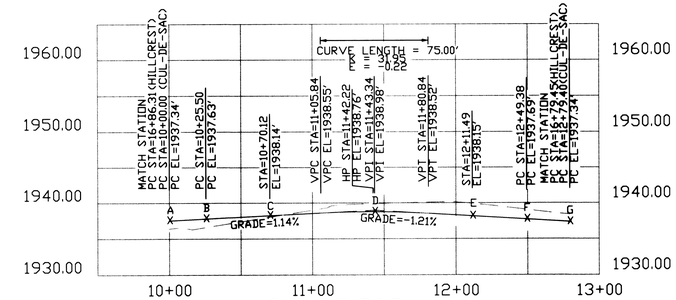


GRAPHIC SCALE









CUL-DE-SAC PERIMETER PROFILE

1"= 50' H
1"= 10' V

CONSTRUCTION NOTES:

1. CONSTRUCT WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5 DESIGN B. TYPICAL SECTION.
2. PREPARE EXISTING GROUND SURFACE:
   A. REMOVE TREES, BRUSH, & SHRUBS.
   B. CLEAR AND GRUB SURFACE & REMOVE ALL TOP SOIL AND SOIL TO A DEPTH BELOW ORGANICS.
3. PLACE FILL IN LAYERS NOT TO EXCEED 8" UNCONSOLIDATED & COMPACT TO 90% OF MAXIMUM DENSITY PER ASTM D-1557. THIS REQUIREMENT IS FOR EMBANKMENT FILL 2 FT. BELOW ROAD SUBGRADE & DEEPER. FROM 2 FT. BENEATH ROAD SURFACE TO SUBGRADE PLACE LIFTS NOT TO EXCEED 4" UNCONSOLIDATED LIFT & COMPACT TO 95% MAXIMUM DENSITY PER ASTM D-1557.
4. TYPICAL SECTION SEE SHEET 15/16, DETAIL 2.
5. SAW CUT ACP 1'± FROM EXISTING EDGE.
6. END SIDEWALK, CONSTRUCT WHEELCHAIR RAMP PER WSDOT STANDARD PLAN F-3D, TYPE 4B.
7. CENTERLINE OF COLTON ST. STA= 16+19.69, & CENTERLINE OF HILLCREST RD. STA= 15+68.85.
8. TYPICAL SECTION. SEE SHEET 15/16, DETAIL 1.
9. CENTERLINE OF DIVISION ST. STA= 13+77.75, & CENTERLINE OF HILLCREST RD. STA= 9+99.84
10. CONCRETE CROSS GUTTER TYPE 1, PER SPOKANE COUNTY STANDARD PLAN B-18.
11. TYPICAL SECTION. SEE SHEET 15/16, DETAIL 3.
12. STREET NAME SIGN PER SPOKANE COUNTY STANDARD PLAN A-16
13. INSTALL NEW STOP SIGN ASSEMBLY. MUTCD STANDARD R1-1 (CONVENTENTIONAL ROAD, TABLE 2B-1).
14. PROVIDE 5' TRANSITION FROM TYPE "B" CURB TO ROLLED CURB. FINISH TRANSITION TO MAINTAIN POSITIVE DRAINAGE.

SPOKANE COUNTY STANDARD NOTES FOR CONSTRUCTION PLANS:

1) ALL WORK & MATERIALS SHALL BE IN CONFORMANCE WITH THE 'SPOKANE COUNTY STANDARDS FOR ROAD & SEWER CONSTRUCTION' 2001 & AS AMENDED.

2) LOCATION 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 & DRAINAGE FACILITIES.

3) THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD & DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

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

CURVE TABLE

CURVE	RADIUS	ARC	TANGENT	CHORD	DELTA
C1	400.00	382.85	207.51	368.40	54°50'20"
C2	400.00	174.00	88.40	172.63	24°55'25"
C3	20.00	31.38	19.96	28.26	89°53'10"
C4	20.00	31.41	19.99	28.28	89°58'44"
C5	20.00	35.36	24.39	30.93	101°17'07"
C6	20.00	28.10	16.93	25.84	80°29'17"
C7	30.00	25.50	13.58	24.74	48°42'38"
C8	30.00	30.02	16.40	28.78	57°19'44"
C9	30.00	27.57	14.84	26.61	52°39'09"
C10	30.00	27.57	14.84	26.61	52°39'08"
C11	30.00	47.20	30.08	42.48	90°09'14"
C12	30.00	47.04	29.92	42.37	89°50'46"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1929A
DATE ACCEPTED: 6/7/06
ACCEPTANCE EXPIRES: 6/7/08
PROJECT LANE MILES PUBLIC: 0.21
PROJECT LANE MILES PRIVATE: —
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

JOHN ANDREW DELEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
5/17/06
EXPIRES 10/11/06

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD	DATE	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: STREET/HILLCREST.DWG	PROJECT NO.: PGGR0301		

DELEO & ASSOCIATES, INC. 1811 N. MOLTER RD. LIBERTY LAKE, WA 99019 (509)-922-4075 Fax (509) 922-1783

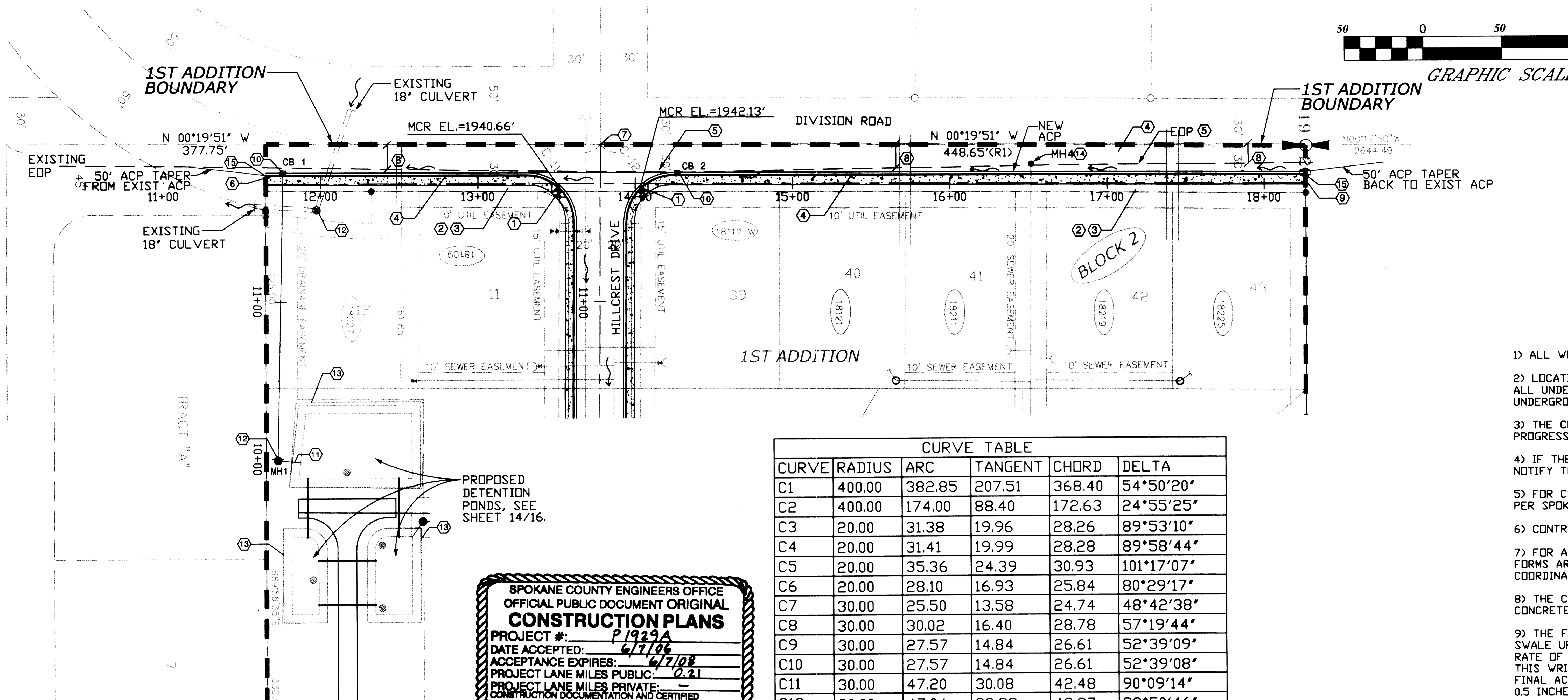
PROJECT: **WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION**
PLAT NO. PN 1929-03

SHEET NAME: HILLCREST DRIVE – STREET
Sta. 10+00 to 17+42.85

SHEET 11/16

P-1929A

SW QTR. S.20, T.27 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON



50 0 50 150 FEET

GRAPHIC SCALE

CURVE TABLE					
CURVE	RADIUS	ARC	TANGENT	CHORD	DELTA
C1	400.00	382.85	207.51	368.40	54°50'20"
C2	400.00	174.00	88.40	172.63	24°55'25"
C3	20.00	31.38	19.96	28.26	89°53'10"
C4	20.00	31.41	19.99	28.28	89°58'44"
C5	20.00	35.36	24.39	30.93	101°17'07"
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C12	30.00	47.04	29.92	42.37	89°50'46"

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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

CONSTRUCTION NOTES:

1. CONSTRUCT WHEELCHAIR RAMP PER SPOKANE COUNTY STANDARD PLAN A-5 DESIGN B. TYPICAL SECTION.
2. PREPARE EXISTING GROUND SURFACE:
   A. REMOVE TREES, BRUSH, & SHRUBS.
   B. CLEAR AND GRUB SURFACE & REMOVE ALL TOP SOIL AND SOIL TO A DEPTH BELOW ORGANICS.
3. PLACE FILL IN LAYERS NOT TO EXCEED 8" UNCONSOLIDATED & COMPACT TO 90% OF MAXIMUM DENSITY PER ASTM D-1557. THIS REQUIREMENT IS FOR EMBANKMENT FILL 2 FT. BELOW ROAD SUBGRADE & DEEPER. FROM 2 FT. BENEATH ROAD SURFACE TO SUBGRADE PLACE LIFTS NOT TO EXCEED 4" UNCONSOLIDATED LIFT & COMPACT TO 95% MAXIMUM DENSITY PER ASTM D-1557.
4. TYPICAL SECTION SEE DETAIL 9, SHEET 15/16.
5. SAW CUT EXISTING ACP 1'± FROM EXISTING EDGE.
6. BEGIN SIDEWALK. DIVISION STREET STA. 11+65.03± FACE OF CURB 19.5' RT.
7. CENTERLINE OF DIVISION ST. STA= 13+77.75, & CENTERLINE OF HILLCREST RD. STA= 9+99.84.
8. WIDTH FROM EXISTING CENTERLINE TO EOP VARIES. SEE DETAIL 2 THIS SHEET.
9. END SIDEWALK. DIVISION STREET STA. 18+26.54± FACE OF CURB 19.5' RT.
10. INSTALL STORM DRAIN CATCH BASIN TYPE 1 WITH TYPE 1 METAL FRAME, & TYPE 1 GRATE WITH GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, & B-17.
11. OUTFALL IE= 1921.50'.
12. INSTALL STORM DRAIN MANHOLE TYPE III - 48", SPOKANE COUNTY STND. PLAN U-5. CONNECT EXISTING CULVERTS TO MANHOLE. CONTRACTOR TO VERIFY INVERT ELEVATION, FIELD LOCATE. EXTEND OR SHORTEN EXISTING CULVERTS AS NECESSARY TO MAKE WATER TIGHT CONNECTION TO MANHOLE.
13. SLOPE CATCH POINT (LINE) APPROXIMATE
14. ADJUST RIM ELEVATION OF MH 4 TO MATCH FINISHED GRADE OF NEW ACP.
15. TRANSITION CURB TO MATCH GROUND SURFACE AT END OF CURB. TRANSITION LENGTH IS 3 FEET.

SPOKANE COUNTY STANDARD NOTES FOR CONSTRUCTION PLANS:

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3) THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD & DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

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

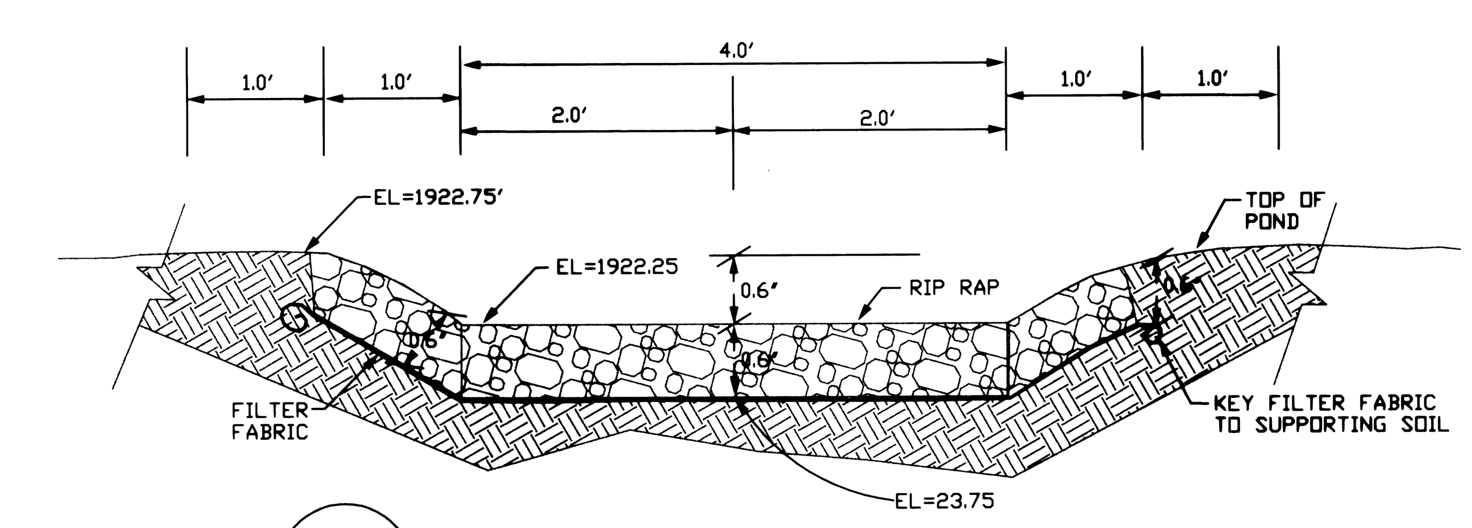
5) FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK & NATIVE SOILS PER SPOKANE COUNTY STANDARD PLAN B-1A.

6) CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS INCLUDING, BUT NOT LIMITED TO, ASPHALT & CONCRETE PAVEMENT REPAIR PERMITS.

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 & 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 PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, & THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE.

9) THE FLOOR OF A GRASSED PROTECTION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, & THE SIDE SLOPES 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 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 LANDSCAPE/SOD & PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

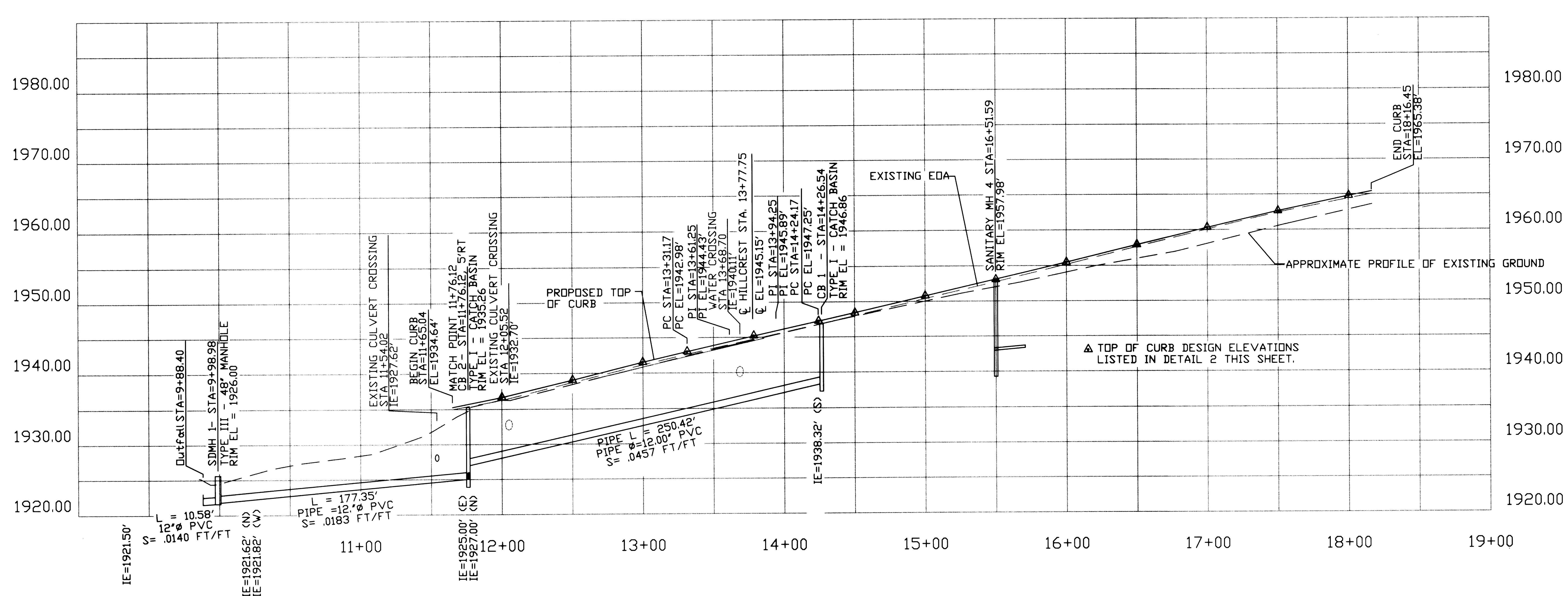


1/12 DETAIL - OVERFLOW WEIR
NTS

STATION	CENTER LINE ELEVATION	% SLOPE CENTER LINE (LONGITUDE)	EDGE PAVEMENT (EXISTING) ELEVATION	DIST. C/L TO EDGE PAVEMENT (EXISTING)	% SLOPE C/L TO EDGE PAVEMENT (EXISTING)	% SLOPE EDGE PAVEMENT (LONGITUDE)	DIST FROM (EXISTING) PAVEMENT EDGE TO GUTTER	MINIMUM TOP CURB ELEV. -4.50% FROM E/P+ CURB HGT	MAXIMUM TOP CURB ELEV. -2.00% FROM E/P+ CURB HGT.	TOP CURB DESIGN ELEVATION	EDGE (EXISTING) PAVEMENT TO GUTTER DESIGN % SLOPE	% SLOPE TOP CURB (LONGITUDE)
11+65	1935.28		1934.98	14.75	2.00%		4.75	1935.27	1935.39	1935.27	-4.50%	
12+00	1936.55	3.65%	1936.25	15.07	2.00%	3.63%	4.43	1936.55	1936.66	1936.66	-2.00%	3.99%
12+50	1939.02	4.93%	1938.70	15.82	2.00%	4.90%	3.68	1939.03	1939.13	1939.03	-4.50%	4.75%
13+00	1941.47	4.91%	1941.14	16.51	2.00%	4.88%	2.99	1941.51	1941.58	1941.51	-4.50%	4.94%
13+31	1942.94	4.69%	1942.60	16.88	2.00%	4.67%	2.62	1942.98	1943.05	1942.98	-4.50%	4.72%
13+78	1945.04	4.52%	1944.69	17.39	2.00%	4.50%	2.11	1945.10	1945.15	1945.15	-2.00%	4.66%
14+24	1947.14	4.52%	1946.78	17.84	2.00%	4.50%	1.66	1947.21	1947.25	1947.25	-2.00%	4.52%
14+50	1948.32	4.60%	1947.97	17.61	2.00%	4.62%	1.89	1948.38	1948.43	1948.43	-2.00%	4.60%
15+00	1950.72	4.80%	1950.39	16.52	2.00%	4.84%	2.98	1950.76	1950.83	1950.76	-4.50%	4.65%
15+50	1953.06	4.69%	1952.73	16.67	2.00%	4.68%	2.83	1953.10	1953.17	1953.10	-4.50%	4.69%
16+00	1955.47	4.82%	1955.17	15.08	2.00%	4.88%	4.42	1955.47	1955.58	1955.47	-4.50%	4.74%
16+50	1957.92	4.90%	1957.64	14.13	2.00%	4.94%	5.37	1957.90	1958.03	1957.90	-4.50%	4.85%
17+00	1960.33	4.81%	1960.06	13.43	2.00%	4.84%	6.07	1960.29	1960.44	1960.29	-4.50%	4.78%
17+50	1962.68	4.70%	1962.42	13.02	2.00%	4.72%	6.48	1962.63	1962.79	1962.63	-4.50%	4.68%
18+00	1964.64	3.92%	1964.39	12.63	2.00%	3.94%	6.87	1964.58	1964.75	1964.75	-2.00%	4.25%
18+16	1965.27	3.81%	1965.02	12.50	2.00%	3.83%	7.00	1965.21	1965.38	1965.38	-2.00%	3.81%

TOTAL PAVEMENT WIDTH FROM C/L (FT) 19.5

2/12 DETAIL - PAVEMENT WIDENING (SPREADSHEET)
NTS



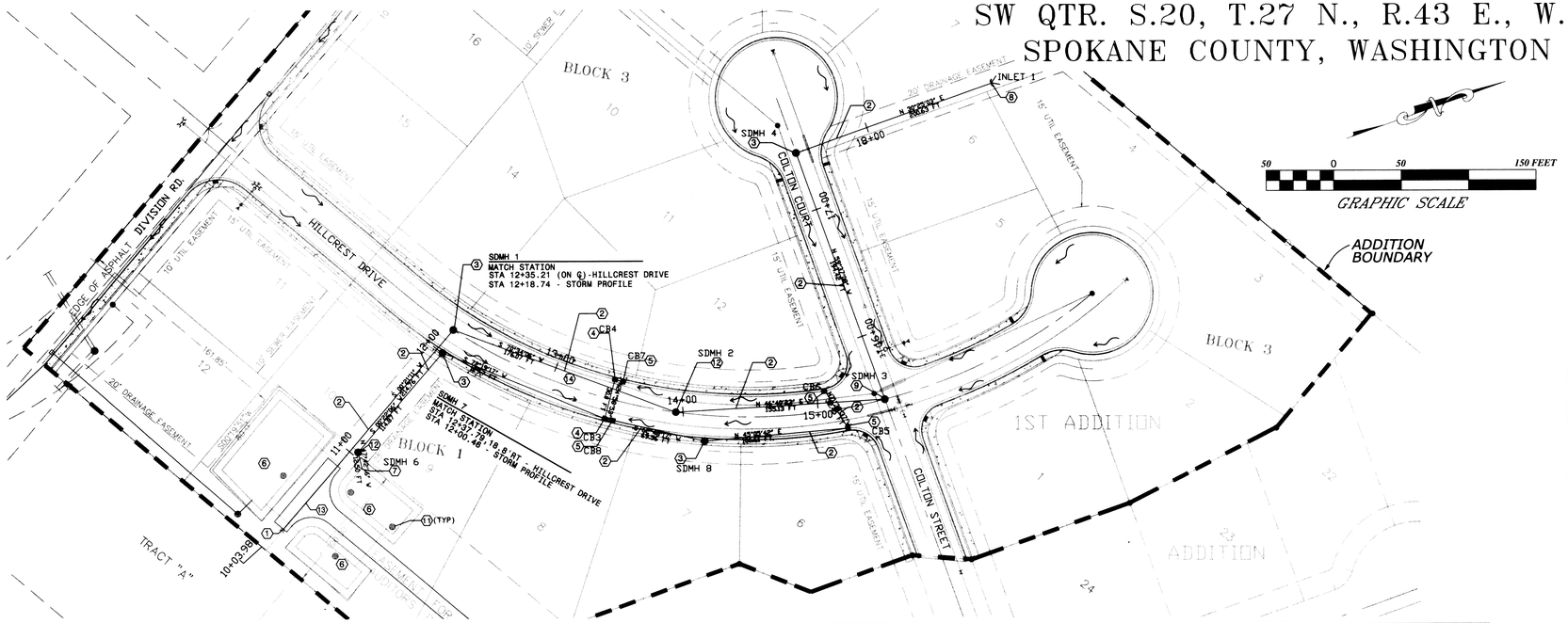
CALL
BEFORE YOU DIG
456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

JOHN ANDREW DeLEO — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 5/17/06
EXPIRES 10/11/06

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD	DATE	REVISIONS	DELEO & ASSOCIATES INC. 1611 N. MOLTER RD, LIBERTY LAKE, WA 99019 (509)-922-4973 Fax (509) 922-1783	PROJECT: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION PLAT NO. PL-1929-03	SHEET NAME: DIVISION ROAD — STREET/STORM Sta. 10+00 to 19+00
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION					SHEET 12/16
DRAWING NO.: STREET\DIVISION.DWG	PROJECT NO. PRRG0301					

P1929A Eng Road Drainage

SW QTR. S.20, T.27 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES:

1. END STORM LINE APPROXIMATELY STA= 10+22.06. PLACE RIPRAP PER DETAIL 8, SHEET 15/16, CONSTRUCT TRASH RACK PER DETAIL 10, SHEET 15/16.
2. INSTALL PVC STORM PIPE. SEE DETAIL 5, SHEET 15/16. ALL STORM LINE SHALL BE AIR TESTED PER SPOKANE COUNTY SPECIFICATIONS.
3. INSTALL STORM DRAIN MANHOLE TYPE I - 48", SPOKANE COUNTY STND. PLAN U-2.
4. MATCH HILLCREST DRV. LOW POINT, SHEET 11/16, TYPE 1 CATCH BASIN, INLET TYPE 2 WITH TYPE 2 METAL FRAME, & TYPE 3 GRATE WITH GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-11, B-14, & B-17. FOR CURB TRANSITION SEE DETAIL 1; THIS SHEET.
5. INSTALL STORM DRAIN CATCH BASIN TYPE 1 WITH INLET TYPE 2, TYPE 3 METAL FRAME, & TYPE 1 GRATE WITH GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-11, B-12, & B-17. FOR CURB TRANSITION SEE DETAIL 1; THIS SHEET.
6. SEE SHEET 14/16, GRASS PERCOLATION AREA, FOR DETENTION POND LAYOUT.
7. END STORM LINE APPROXIMATELY STA= 10+96.27. PLACE RIPRAP PER DETAIL 8, SHEET 15/16, CONSTRUCT TRASH RACK PER DETAIL 10, SHEET 15/16.
8. BEGIN STORM LINE APPROXIMATELY STA= 18+98.05. STORM WATER INLET WITH HEADWALL PER WSDOT STANDARD PLANS B-9. GRADE SURROUNDING AREA TO FLOW TOWARD INLET. BEVEL CUT & ADD TRASH RACK PER DETAIL 10, SHEET 15.
9. INSTALL STORM DRAIN MANHOLE TYPE I - 48" WITH INTERIOR DROP
10. NOT USED.
11. INSTALL PRECAST DRYWELL TYPE "B", SPOKANE COUNTY STANDARD PLAN B-1a.
12. INSTALL STORM DRAIN MANHOLE TYPE III - 48", SPOKANE COUNTY STND. PLAN U-5.
13. MIN. 62' CL 52 DUCTILE IRON PIPE UNDER HAMMER HEAD.
14. GRAVITY STORM LINE TO BE INSTALLED PRIOR TO INSTALLATION OF PRESSURE SEWER, WATER DISTRIBUTION LINES, AND SERVICES.

SPOKANE COUNTY STANDARD NOTES FOR CONSTRUCTION PLANS:

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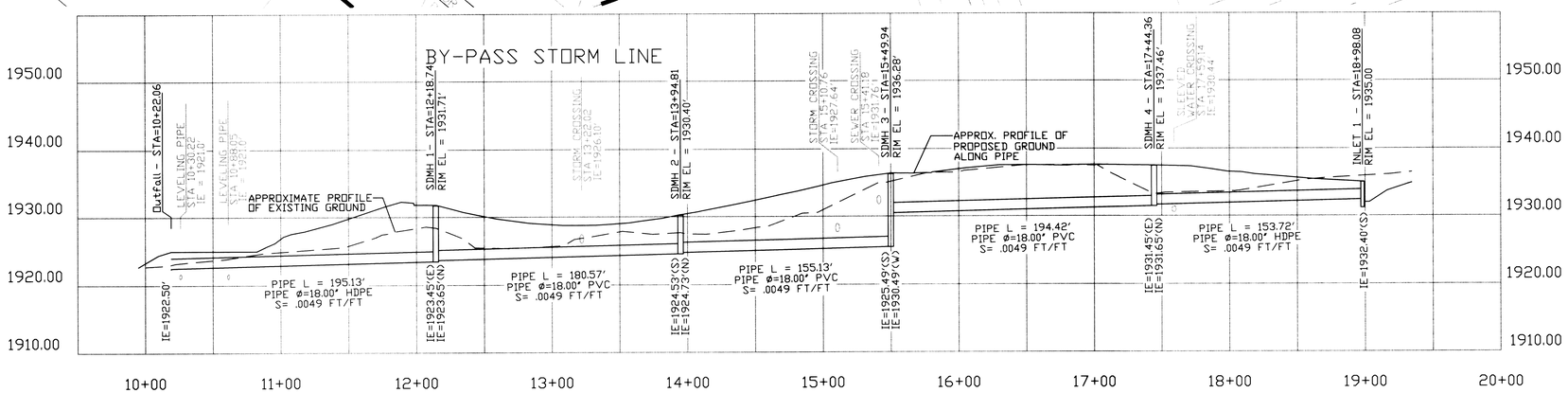
5) FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK & NATIVE SOILS. SPOKANE COUNTY STANDARD PLAN B-1A.

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 & COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

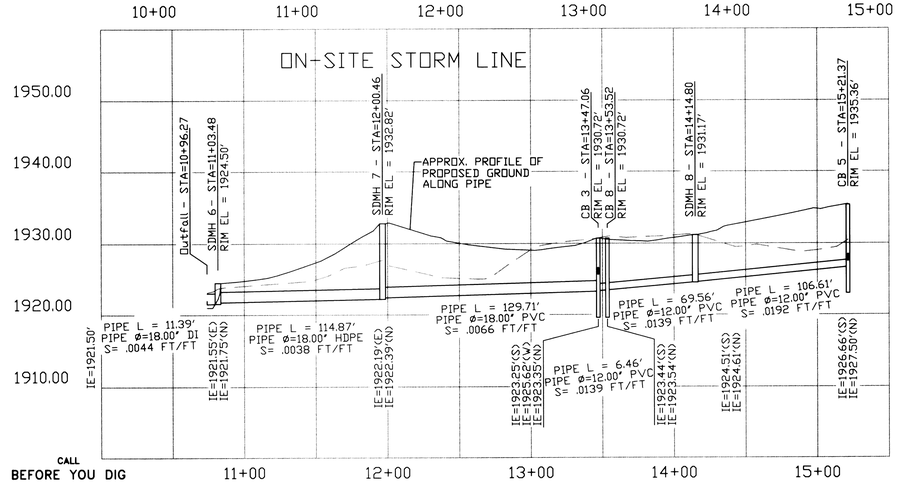
8) THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, & THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE.

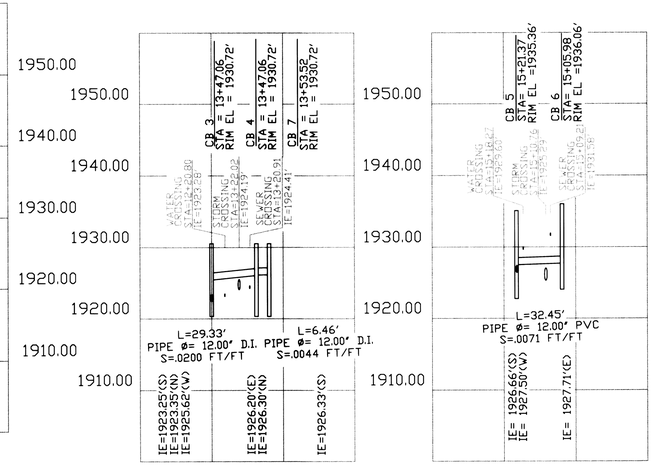
9) THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, & THE SIDE SLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE 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 LANDSCAPE/SOD & PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

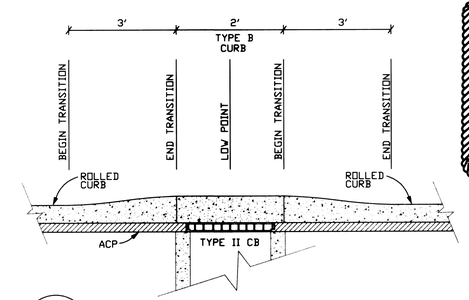


MATCH STATIONS

	STORM PROFILE STATION	HILLCREST STATION
SDMH 1	12+18.74	12+35.21, 0.0'
SDMH 2	13+94.81	14+12.73, 0.0'
SDMH 3	15+49.94	15+68.85, 0.0'
CB3	13+47.06	13+62.73, 15.0'R
CB4	13+47.06	13+62.73, 15.0'L
CB7	13+53.52	13+69.20, 15.0'L
CB5	15+21.37	15+38.12, 15.0'R
CB6	15+05.98	15+25.74, 15.0'L
SDMH 7	12+00.46	12+37.79, 18.8'R
SDMH 8	14+14.80	14+35.63, 19'R







1/13 CURB TRANSITION DETAIL
NTS

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1929A
DATE ACCEPTED: 6/7/06
ACCEPTANCE EXPIRES: 6/7/08
PROJECT LANE MILES PUBLIC: 0.21
PROJECT LANE MILES PRIVATE: —
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) 477-3200
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

JOHN MARK DELEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES 10/11/06
5/17/06

CALL
BEFORE YOU DIG
(509) 456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD & MKN	DATE	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: STORM\HILLCREST.DWG	PROJECT NO. PGGR0301		

DELEO & ASSOCIATES INC. 1611 N. MOLTER RD. LIBERTY LAKE, WA 99019 (509)-922-4075 Fax (509) 922-1783

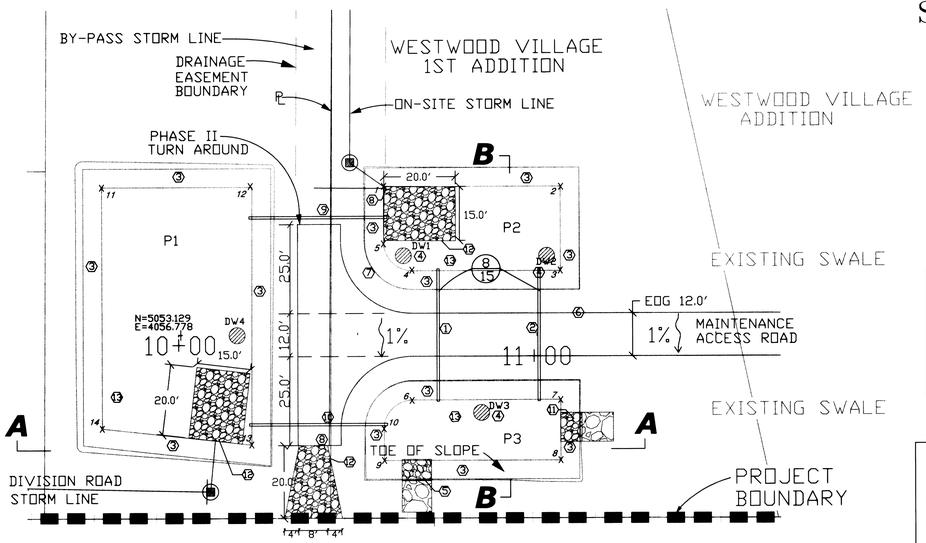
PROJECT
WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION
PLAT NO. PN 1929-03

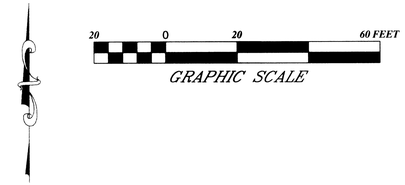
SHEET NAME
HILLCREST DRIVE – STORM DESIGN
PLAN & PROFILE

SHEET NO. 13/16

P 1929 Engineering

SW QTR. S.20, T.27 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON





GPA BOTTOM COORDINATES

NO.	NORTHING	EASTING	NO.	NORTHING	EASTING
1	N=5094.475	E=4113.470	8	N=5017.907	E=4162.730
2	N=5094.513	E=4162.730	9	N=5017.918	E=4113.470
3	N=5070.994	E=4162.730	10	N=5027.063	E=4113.405
4	N=5071.034	E=4121.302	11	N=5094.419	E=4034.672
5	N=5078.904	E=4113.405	12	N=5094.419	E=4076.723
6	N=5034.932	E=4121.302	13	N=5022.418	E=4076.507
7	N=5034.972	E=4162.730	14	N=5027.025	E=4034.692

DRYWELL STATION & OFFSET

DW1	N=5075.274 E=4118.907	STA 10+61.96	-22.19 LT
DW2	N=5075.249 E=4158.907	STA 11+01.82	-22.19 LT
DW3	N=5031.360 E=4140.603	STA 10+83.64	-21.70 RT
DW4	N=5058.977 E=4072.502	STA 10+15.58	-0 RT

NOTES:

① LEVEL PIPE 1
8"Ø
IE=1921.00'
STA 10+72.00

② LEVEL PIPE 2
8"Ø
IE=1921.00'
STA 11+00.00

③ 3:1 SLOPES TYPICAL

④ RIM EL= 1921.50'
SPOKANE CO. DRYWELL TYPE B TYPICAL
TYPE 4 METAL GRATE STANDARD PLAN B-1A

⑤ RIPRAP OVERFLOW WEIR SEE DETAIL 1, SHEET 12

⑥ MAINTENANCE ROAD SEE DETAIL THIS SHEET.
12.0' ROAD WIDTH (TYP)
20.0' EASEMENT WIDTH

⑦ 20.0' RADIUS (TYPICAL)

⑧ OUTLET STRUCTURE WITH TRASH RACK, SEE DETAIL 8 & 10, SHEET 15/16.

⑨ LEVEL PIPE 3
8"Ø, IE=1921.00'
BEGIN STA 10+25.81,2.6'LT
END STA 10+51.85,19.3'LT

⑩ LEVEL PIPE 4
8"Ø
IE=1921.00'
STA 10+38.00, 25'RT

⑪ EXTEND RIP RAP EMERGENCY OVERFLOW FROM EXISTING POND. RIP RAP SHOULD EXTEND DOWN SLOPE TO 3 FT ALONG POND BOTTOM.

⑫ RIP RAP OUTLET

⑬ HYDROSEED ALL DISTURBED AREAS, (EXCEPT ROAD) WITH DRYLAND, ROADSIDE SEED MIXTURE.

POND BOTTOM AREA

P1 = 2,923 FT^2
P2 = 1,144 FT^2
P3 = 826 FT^2

DRYWELL: DRYWELL SHALL BE PER SPOKANE COUNTY STANDARD PLAN B-1. METAL FRAME & GRATE SHALL BE PER SPOKANE COUNTY STANDARD PLAN B-15, TYPE 4. AMOCO 4551 OR NON-BIODEGRADABLE FILTER FABRIC. THE FABRIC SHALL BE EQUIVALENT.

GEOTEXTILE FABRIC: POLYMERIC FIBERS FORMED INTO A FABRIC OF NON-WOVEN TYPE. FABRIC SHALL BE FREE OF ANY TREATMENT OR COATING WHICH MIGHT SIGNIFICANTLY ALTER ITS PHYSICAL PROPERTIES AMOCO PRODUCT 4551 OR EQUIVALENT. OVERLAP GEOTEXTILE 2 FEET AT SEAMS.

SEED: CONTRACTOR SHALL SUBMIT CERTIFIED SEED INSPECTION CERTIFICATE INDICATING VARIETY, PURITY & % GERMINATION.

DRY LAND, ROADSIDE SEED MIX: SHALL BE AS FOLLOWS: GRASS SEED: 10% ELKA PERENNIAL RYE 20% DURAR HARD FESCUE 45% COVER SHEEP FESCUE 15% REUBENS CANADIAN BLUEGRASS APPLICATION RATE: 90 LBS PER ACRE.

FERTILIZER: SHALL BE OF STANDARD COMMERCIAL GRADE MEETING THE FOLLOWING FORMULATION: 16-16-16 TIMED RELEASED COMPOSITION. APPLICATION RATE: 300 LBS PER ACRE. BACKFILL AREAS TO CONTOURS & ELEVATIONS WITH THE SPECIFIED MATERIALS.

BACKFILL & EMBANKMENT: BACKFILL TO SUB GRADE ELEVATION & DEPTHS AS INDICATED IN THE DRAWINGS OR TO MATCH SURROUNDING GRADES. SPECIAL CARE SHALL BE TAKEN TO ASSURE THE COMPLETE COMPACTION AROUND THE HAUNCHES OF ANY PIPE INSTALLED. BEDDING MATERIAL SHALL BE PLACED IN THE TRENCH FOR ITS FULL WIDTH ON EACH SIDE OF THE PIPE SIMULTANEOUSLY. SYSTEMATICALLY BACKFILL TO ALLOW MAXIMUM TIME FOR COMPACTION & SETTLEMENT. DO NOT BACKFILL OVER POROUS, WET, FROZEN OR SPONGY SUB GRADE SURFACES. WHERE REQUIRED, OR AS DIRECTED BY THE ENGINEER. PLACE GEOTEXTILE MATERIAL BETWEEN SUB GRADE & BACKFILL MATERIALS. PLACEMENT OF GEOTEXTILE SHALL BE AS INDICTED IN THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. BACKFILL OVER-EXCAVATED AREAS WITH STRUCTURAL FILL MATERIAL & COMPACT AS SPECIFIED. BACKFILL IN MAXIMUM 8" LIFT (LOOSE PLACEMENT).

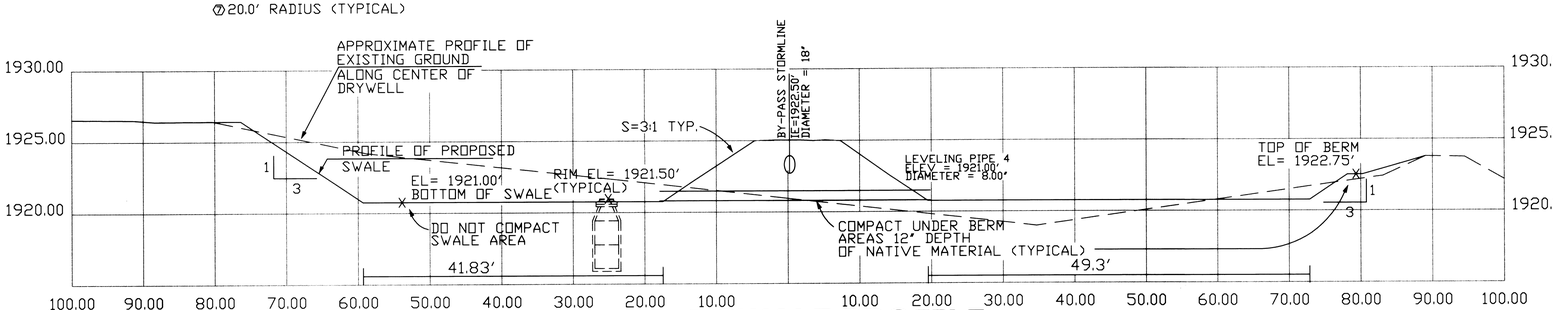
RIPRAP: RIPRAP SHALL BE FREE OF ROCK FINES, SOIL, OR OTHER EXTRANEOUS MATERIALS. RIPRAP SHALL MEET THE REQUIREMENTS 9-13.6 FOR QUARRY SPALLS (100% PASSING 12") OF THE WSDOT STANDARD SPECIFICATION FOR ROADS, BRIDGES, & MUNICIPAL CONSTRUCTION SECTION. MINIMUM D50 = 9 INCHES, RIPRAP THICKNESS SHALL BE A MINIMUM OF 14" AT PIPE OUTFALL. FURNISH RIPRAP, EXCAVATE NATIVE MATERIAL TO A DEPTH MATCHING RIPRAP THICKNESS, SCARIFY & COMPACT 12" OF NATIVE MATERIAL, PLACE FILTER FABRIC, PLACE RIPRAP OF THE TYPE SPECIFIED AT THE LOCATIONS SHOWN IN THE PLANS TO THE REQUIRED LINES & GRADES OR AS ESTABLISHED IN THE FIELD. PLACEMENT OF RIPRAP SHALL BE AS SPECIFIED IN SECTION 8-15 RIPRAP OF THE WSDOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, & MUNICIPAL CONSTRUCTION. PUNCTURED GEOTEXTILE SHALL BE REPLACED.

COMPACTION: FIELD TESTING WILL BE PERFORMED BY THE OWNER'S REPRESENTATIVE. COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ANSI/ASTM D1557 MODIFIED PROCTOR, & ASTM D2922 NUCLEAR TEST METHODS. IF TESTS INDICATE WORK DOES NOT MEET SPECIFIED REQUIREMENTS, REMOVE WORK, REPLACE & RETEST AT CONTRACTORS EXPENSE. FREQUENCY OF TESTS SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE. MINIMUM TEST FREQUENCIES ARE ESTABLISHED BY SPOKANE COUNTY, INCREASED FREQUENCY MAY BE REQUIRED BY OWNERS REPRESENTATIVE.

FILL UNDER LANDSCAPED AREAS: FILL NATIVE MATERIAL, MAXIMUM 8" LIFT (LOOSE PLACEMENT) COMPACTED TO 90% 6 INCHES BELOW FINISH GRADE, & BORROW FILL, MAXIMUM 8" LIFT (LOOSE PLACEMENT) COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557.

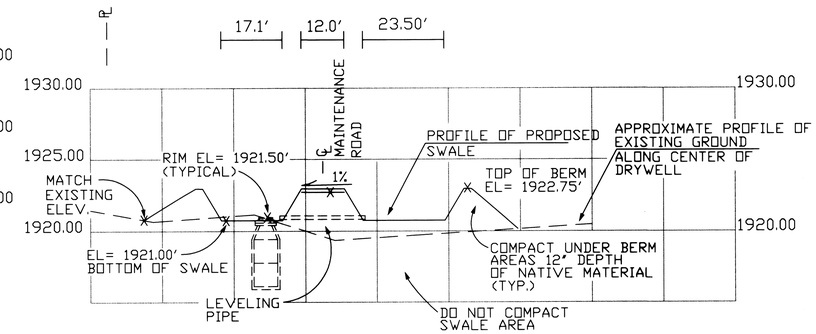
LEVELING PIPE: 8" PVC C-900, BEVELED TO MATCH SLOPE. COMPACT SUBGRADE UNDER PIPE. APPROXIMATE LENGTH 25' EACH.

EMBANKMENT: COMPACT TO 95% OF MAXIMUM DENSITY.



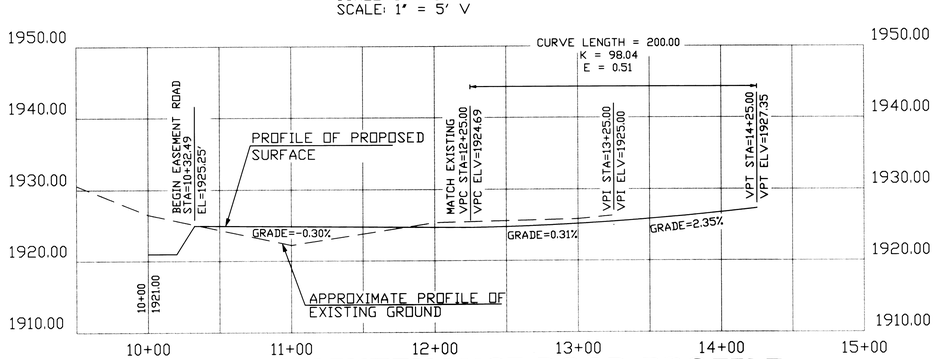
A-A SWALE PROFILE

SCALE: 1" = 10' H
SCALE: 1" = 5' V



B-B SWALE PROFILE

SCALE: 1" = 20' H
SCALE: 1" = 5' V



MAINTENANCE ROAD PROFILE

SCALE: 1" = 50' H
SCALE: 1" = 10' V

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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PROJECT LANE MILES PUBLIC: 0.21
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JOHN ANDREW DeLEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
5/17/06
EXPIRES 10/11/06

CALL
BEFORE YOU DIG
(509) 456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD	DATE:	REVISIONS
DATE 5-16-06	PROJECT NAME WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: MISC\SHEET14.DWG	PROJECT NO. PGGR0301		

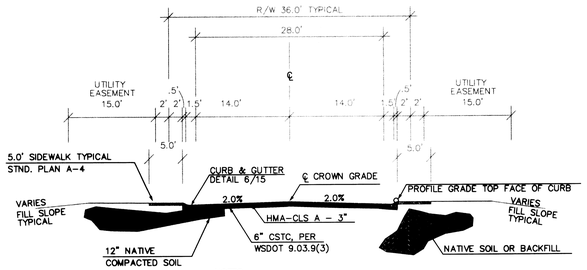
DELEO & ASSOCIATES, INC. 1611 N. MOLTER RD. LIBERTY LAKE, WA 99019 (509)-922-4073 Fax (509) 922-1783

PROJECT
WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION
PLAT NO. PN 1929-03

SHEET NAME
GRASS PERCOLATION AREA

SHEET 14/16

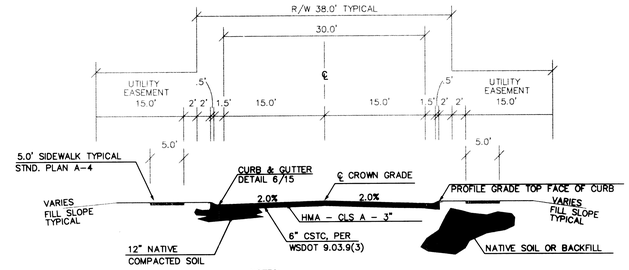
P-1929A England Drainage



NOTES:
1. SCARIFY & COMPACT TOP 12" OF SUBGRADE. COMPACT TO 95% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR.
2. INSPECT SUBGRADE & REMOVE AREAS OF UNSUITABLE MATERIALS TO 12" DEPTH. REPLACE WITH STRUCTURAL FILL.
3. GRAVEL UNDER CURB SHALL BE A MINIMUM OF 2" THICKNESS.

COLTON COURT, STA. 16+61.62 TO STA. 17+98.01
HILLCREST COURT, STA. 16+05.32 TO STA. 16+79.45

1/15 DETAIL – TYPICAL 28.0' SECTION
NTS COLTON COURT, & HILLCREST COURT



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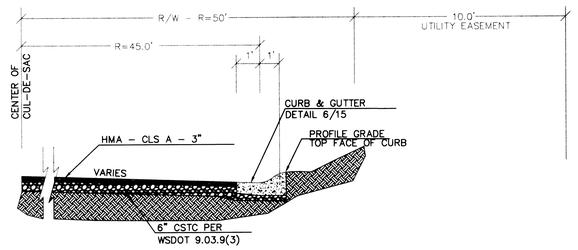
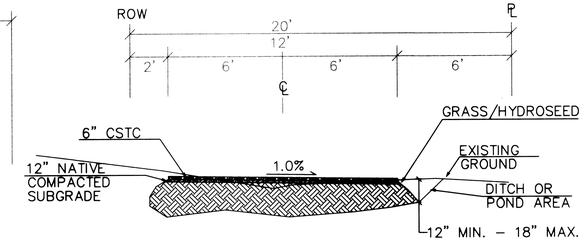
3. GRAVEL UNDER CURB TO BE MINIMUM 2" THICKNESS.
4. SIDEWALK ADJACENT TO CURB ON HILLCREST DRIVE, AS SHOWN ON SHEET 11.

COLTON STREET, STA. 14+75.00 TO STA. 15+82.60
HILLCREST DRIVE, STA. 10+54.67 TO STA. 15+25.74

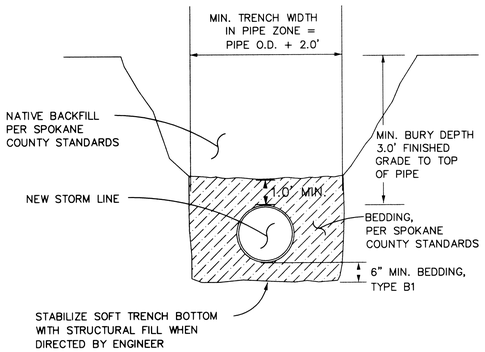
2/15 DETAIL – TYPICAL 30.0' SECTION
NTS COLTON STREET & HILLCREST DRIVE



3/15 DETAIL – TYPICAL CUL-DE-SAC
NTS COLTON COURT, HILLCREST COURT



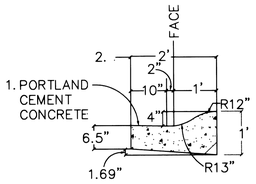
4/15 CROSS-SECTION MAINTENANCE ROAD
NTS



5/15 TYPICAL PVC STORM LINE
NTS TRENCH DETAIL

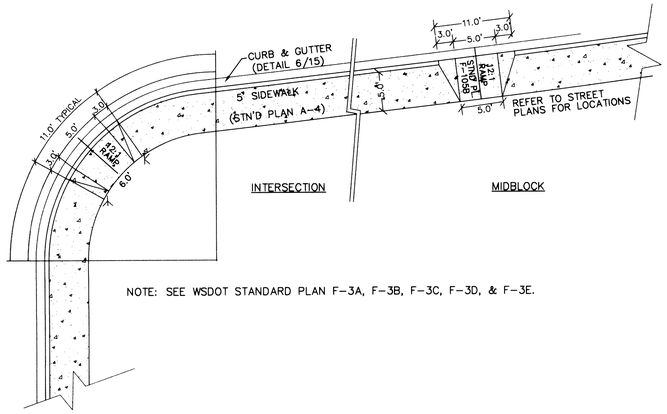
GENERAL NOTES

1. PORTLAND CEMENT CONCRETE SHALL BE CLASS 3000 CONFORMING TO THE STANDARD SPECIFICATION.
2. WEAKENED PLANE JOINTS FOR PORTLAND CEMENT CONCRETE SHALL BE PLACED AT 15' INTERVALS.
3. 3/8" EXPANSION JOINTS IN PORTLAND CEMENT CONCRETE SHALL BE PLACED AT CURB RETURNS.
4. CURBS SHALL HAVE LIGHT BROOMED FINISH. GUTTERS SHALL BE FINISHED WITH A STEEL TROWEL.



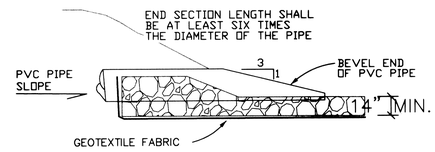
ROLLED CURB

6/15 DETAIL – ROLLED CURB
NTS



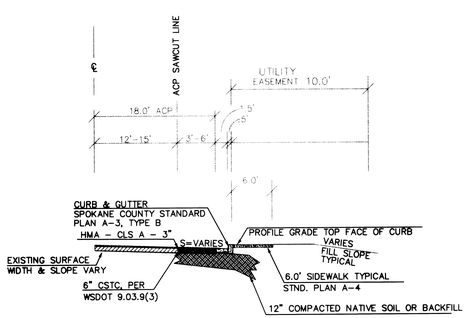
NOTE: SEE WSDOT STANDARD PLAN F-3A, F-3B, F-3C, F-3D, & F-3E.

7/15 DETAIL – TYPICAL CURB RAMP & SIDEWALK
NTS



NOTE:
1. RIPRAP & FILTER FABRIC ARE NOT REQUIRED FOR LEVELING PIPES IN POND.

8/15 DETAIL – PVC PIPE BEVELED END
NTS RIPRAP & FILTER FABRIC



NOTES:
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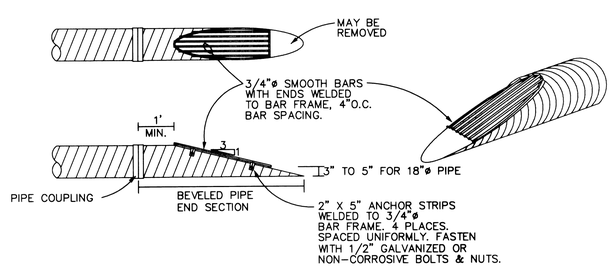
2. INSPECT SUBGRADE & REMOVE AREAS OF UNSUITABLE MATERIALS TO 12" DEPTH. REPLACE WITH STRUCTURAL FILL.

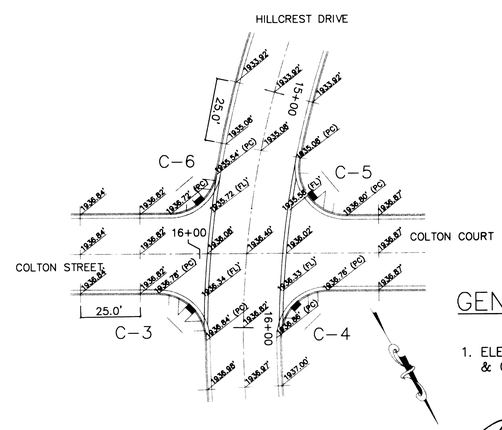
DIVISION ST. STA 11+76.09 TO 18+15.11

9/15 DETAIL – NEW CURB AND GUTTER SECTION
NTS DIVISION STREET

NOTES:
1. PIPE END SECTION SHOWN.
2. ALL STEEL PARTS MUST BE GALVANIZED & ASPHALT COATED (TREATMENT 1 OR BETTER)



10/15 DETAIL – PVC PIPE BEVELED END
NTS WITH TRASH RACK



11/15 DETAIL – HILLCREST-COLTON
1:30 SCALE INTERSECTION DESIGN

GENERAL NOTES

1. ELEVATIONS REPRESENT TOP OF CURB & CENTERLINE EXCEPT WHERE NOTED (FL).

SPOKANE COUNTY ENGINEERS OFFICE
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PERMIT REQUIRED! (509) 477-6700
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

JOHN ANDREW DELEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
5/11/06
EXPIRES 10/11/06

DRAWN BY: TPD/MBM/SAE	APPROVED BY: JAD	DATE	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE ADDITION SUBDIVISION		
DRAWING NO.: MISC\DETAILS.DWG	PROJECT NO.: PGGR0301		

DELEO & ASSOCIATES, INC. 1611 N. MOLTER RD. LIBERTY LAKE, WA 99019 (509)-922-4973 Fax (509) 922-1783

PROJECT: *WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION*
PLAT NO. PN 1929-03

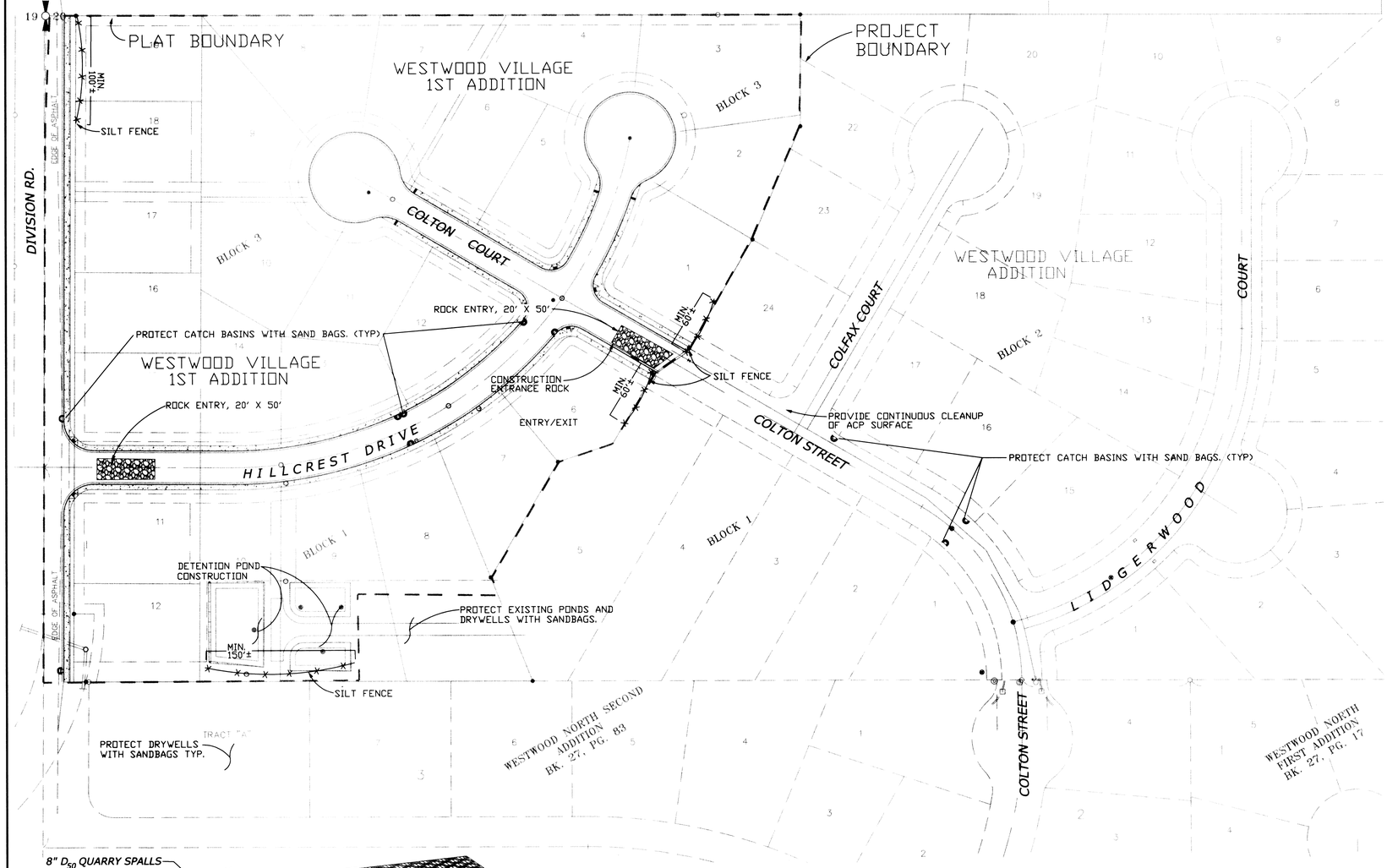
SHEET NAME: DETAILS

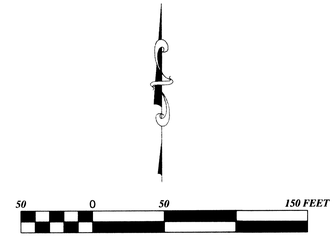
SHEET 15/16

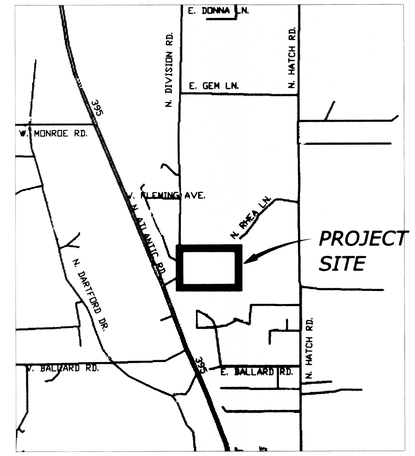
P-1929A Eng Mod Drawings

SW QTR. S.20, T.27 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON

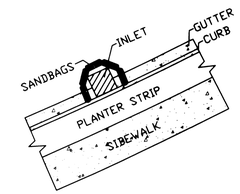
SP 82-199
BK. 2, PGS. 41-42







VICINITY MAP
N.T.S.



SAND BAG PROTECTION DETAIL
NTS

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OFFICIAL PUBLIC DOCUMENT ORIGINAL
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PROJECT #: P1929A
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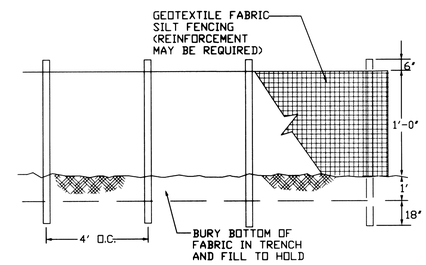
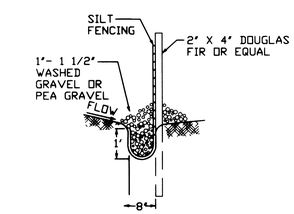
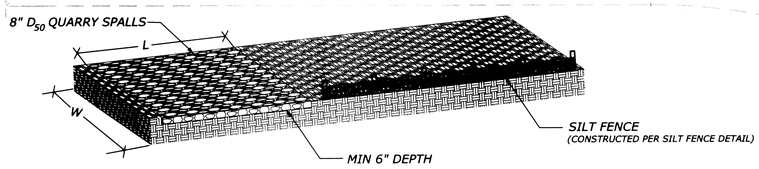
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS OR 2 BUSINESS DAYS PRIOR TO CONSTRUCTION





SILT FENCE DETAIL
NTS



ROCK ENTRY DETAIL
NTS

NOTE:
1. L & W SEE PLAN VIEW

EROSION CONTROL INFORMATION

OWNER:	PLESE, GRAHAM, GEORGIAN, PARTNERSHIP, LLC., OWNER
CONTACT PERSON:	SCOTT DALE
ADDRESS:	18121 N. DIVISION, COLBERT, WA.
LEGAL DESCRIPTION:	N 1/2 OF NW 1/4, S. 20, T. 27 N., R. 43 E., W.M.
PREPARER	JOHN DELEO, PE
PROJECT:	WESTWOOD VILLAGE ADDITION APPROXIMATELY 10 ACRE SUBDIVISION.
ESC MEASURES	SILT FENCES PLACED IN NATURAL DRAWS. ROCK ENTRY, DRYWELL INLET SANDBAGS.
EXISTING VEGETATION:	BARE SOIL, UNDERBRUSH & NATIVE GRASSES, REMOVED.
WATER BODIES:	NONE
ON SITE SOILS:	HAGEN & BONNER
DATE OF PLAN:	FEBRUARY 21, 2006

SPOKANE COUNTY EROSION CONTROL NOTES:

1. AN EROSION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, & CONSTRUCTION, MAINTENANCE, & UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED & ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, & ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
2. DUST CONTROL SHALL BE ACCOMPLISHED USING WATER OR APPROVED DUST PALLIATIVE. DUST CONTROL SHALL BE CONDUCTED DURING ALL CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL DO NO CLEARING AND GRUBBING OR EARTHWORK BEFORE THE EROSION CONTROL PLAN HAS BEEN APPROVED BY THE COUNTY ENGINEER.
4. EROSION CONTROL: CONTROLLING POLLUTION, EROSION, RUN-OFF, AND RELATED DAMAGE MAY REQUIRE THE CONTRACTOR TO PERFORM TEMPORARY WORK ITEMS INCLUDING BUT NOT LIMITED TO:
   A. PROVIDING DITCHES, BERMS, CULVERTS, AND OTHER MEASURES TO CONTROL SURFACE WATER.
   B. BUILDING DAMS, SETTLING BASINS, ENERGY DISSIPATERS, AND OTHER MEASURES, TO CONTROL DOWNSTREAM FLOWS.
   C. CONTROLLING UNDERGROUND WATER FOUND DURING CONSTRUCTION.
   D. COVERING OR OTHERWISE PROTECTING SLOPES UNTIL PERMANENT EROSION CONTROL MEASURES ARE WORKING.
5. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TEMPORARY WATER POLLUTION CONTROL IN ALL SOURCES OF MATERIAL, DISPOSAL SITES, AND HAUL ROADS. NO STORM, GROUND, OR WATER OF ANY KIND SHALL BE PUMPED, DRAINED, OR OTHERWISE DISPERSED INTO THE DOWNSTREAM STORM SYSTEM.
6. APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM , DRAINAGE, GRADING, OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.
7. THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT & MAINTAIN THESE ESC MEASURES DAILY, & SHALL MAINTAIN & UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRY WELLS, CULVERTS, OR GRAVEL GALLERIES.
8. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY & ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. REMOVE BEFORE PLACING ROAD SURFACE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL TEMPORARY EROSION CONTROL MEASURES.
10. SEDIMENT BARRIERS SHALL BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RUNOFF EVENT. REMOVE ALL SEDIMENT AND DEPOSIT ON SITE AFTER SEDIMENT BARRIERS ARE NO LONGER REQUIRED.
11. CONTRACTOR SHALL NOT REMOVE TEMPORARY ESC MEASURES UNTIL 30 DAYS AFTER THE SITE IS STABILIZED. ALL DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED.
12. 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 WATER UNDER PRESSURE. SWEEPING AND WATER SHALL BE USED WHEN WATER PRESSURE ALONE WILL NOT WASH THE CONSTRUCTION DEBRIS FROM THE STREET.
13. GEOTEXTILE FABRIC IS TO BE PLACED ON RIMS OF DRYWELLS, CATCH BASINS, & INLETS UNTIL SUCH TIME THE VEGETATION ON THE SITE IS ESTABLISHED & THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.

JOHN A. DELEO
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES 10/11/06
5/17/06

PROJECT SPONSOR
PLESE, GRAHAM, GEORGIAN, PARTNERSHIP, LLC.
PLESE REALTY
201 W. FRANCIS
SPOKANE, WA 99205
PHONE: 1-509-489-2323
FAX: 1-509-489-3333

SURVEYOR:
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PHONE: 1-509-325-4529
FAX: 1-509-325-4520

ENGINEER:
DELEO & ASSOCIATES
1611 N. MOLTER RD.
LIBERTY LAKE, WA 99019
PHONE: 1-509-922-4973
FAX: 1-509-922-1783

CALL
BEFORE YOU DIG
(509) 456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

PREPARER'S CERTIFICATION
THIS ESC PLANS MEETS THE REQUIREMENTS AS AS LISTED IN CHAPTER 4.5 OF THE SPOKANE COUNTY STORMWATER MANAGEMENT GUIDELINES.

JOHN DELEO, PE

SPONSOR'S ACKNOWLEDGMENT

MR. ROD V. PLESE
PROJECT SPONSOR'S REPRESENTATIVE

DRAWN BY: TPD/SAE/MBM	APPROVED BY: JAD	DATE	REVISIONS
DATE: 5-16-06	PROJECT NAME: WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION		
DRAWING NO.: MISC\EROSIONCONTROL.DWG	PROJECT NO.: PGGR0301		

DELEO & ASSOCIATES, INC. 1611 N. MOLTER RD, LIBERTY LAKE, WA 99019 (509)-922-4973 Fax (509) 922-1783

PROJECT
WESTWOOD VILLAGE 1ST ADDITION SUBDIVISION
PLAT NO. PN 1929-03

SHEET NAME
EROSION CONTROL PLAN

SHEET 16/16

P-19298 Eng/Bnd Drawings