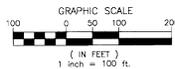


VICINITY MAP

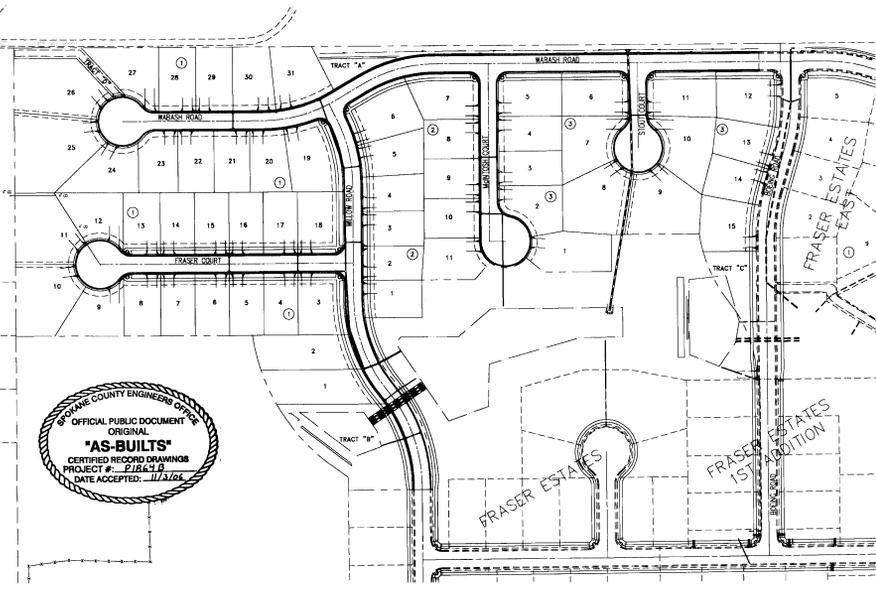
FRASER ESTATES 2ND ADDITION STREET PLANS

SECTION 32, T.26 N., R.44 E., W.M.
SPOKANE COUNTY, WASHINGTON



GENERAL NOTES - STREET/DRAINAGE

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 2001 AS AMENDED.
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE ACCEPTED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.
- FOR CONSTRUCTION OF DRYPWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAINROCK AND THE NATIVE SOILS.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 1-800-424-3555 BEFORE YOU.
- GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE RIMS AND GRATES OF DRYPWELLS, CATCH BASINS AND INLETS UNTIL SUCH THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
- FOR ANY CURB GRADES LESS THAN 0.8% (0.0080 FT/FT), A WASHINGTON STATE-LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS. PRIOR TO PLACEMENT OF CURB MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.
- THE FLOOR OF A GRASED PERCOLATION AREA (GPA) SHALL INCLUDE THE LEVEL PORTION OF THE FLOOR OF THE SWALE AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYPWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM WELL-DRAINING MATERIAL WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN TREATMENT VERIFYING THAT ALL GPA SWALES CONFORM TO THE REQUIREMENT. THIS WRITTEN TREATMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING AND/OR SOIL, AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRAIN WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.
- AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE AND UPKEEPING OF THE ESC FACILITIES, ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE AND ACCEPTED BY SPOKANE COUNTY, WHICH EVER IS LATER.
- 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.
- THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THE ESC MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADATE THE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN RUNOFF FROM OTHER FLOWING OFF THE SITE OR INTO AND/OR EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYPWELLS, COLLECTORS, INLETS, CATCH BASINS OR GRAVEL GALLERIES.
- THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRICES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.



RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.
Surveying was provided by Jeff Macksett of Century Survey.



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

PROJECT CONTACTS

CLIENT CONTACT FRASER ESTATES, LLC MICK HANE (509) 442-7400 FAX: 462-9771	PROJECT ENGINEER WILKINSON CREST ENTERPRISES, INC. NELSON W. COOPER, P.E. (509) 466-5744 FAX: 466-1514
GOVERNING AGENCY SPOKANE COUNTY UTILITIES KRYN R. COOKE, P.E. (509) 477-3664 FAX: 477-4715	FIRE DISTRICT SPOKANE COUNTY FIRE DISTRICT NO. 9 JIM WALSH (509) 466-4602

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.

LEGEND

EXISTING	SURFACE FEATURES	PROPOSED
---	FLAT BOUNDARY	---
---	CENTER LINE	---
---	RIGHT-OF-WAY LINE	---
---	PROPERTY LINE	---
---	EASEMENT LINE	---
---	CURB LINE	---
---	EDGE OF PAVEMENT	---
---	EDGE OF GRAVEL	---
---	DITCH LINE	---
---	FOUNDATIONS/STRUCTURES	---
---	CONTOUR (MAJOR)	---
---	CONTOUR (MINOR)	---
---	SANITARY SEWER	---
---	SEWER MAIN (w/ Flow)	---
---	MANHOLE	---
---	SEAM-OUT	---
---	SIDE SERVICE	---
---	WATER	---
---	WATER MAIN VALVE	---
---	HYDRANT	---
---	BLOW-OFF ASSEMBLY	---
---	RECYCLING MATERIAL SERVICE	---
---	STORM DRAINAGE	---
---	STORM MAIN	---
---	CATCH BASIN	---
---	GRANULAR	---
---	DRYPWELL	---
---	POND BOTTOM	---
---	UTILITIES	---
---	GAS MAIN	---
---	POWER/PHONE	---
---	TELEPHONE	---
---	POWER/LIGHT POLE	---

SHEET INDEX

SHEET TITLE	SHEET No.
COVER	1
EROSION CONTROL	2
WILLOW RD	3
FRASER CT	4
WABASH RD	5
WABASH RD	6
McINTOSH CT	7
STOUT CT	8
DETAILS	9
DRAINAGE DETAILS	10
DRAINAGE DETAILS	11
DRAINAGE DETAILS	12
POND DETAILS	13

DATUM NAVD'88

BASED ON WSDOT GPS MON GP32290-22
LOCATED ON SOUTH SIDE OF TRENT AVENUE
APPROXIMATELY 200' WEST OF PINES ROAD.
ELEVATION = 1969.78' (606.484 METERS).

DEVELOPER'S APPROVAL

DATE

4-18-04-B *Emp's Build*

Mountain Crest Enterprises Inc.
1000 E. 1st St.
P.O. Box 1800
Spokane, WA 99001
(509) 466-5794 Fax: 466-1514



FRASER ESTATES
2ND ADDITION
COVER SHEET
SPOKANE COUNTY, WA

STREET PLANS
County Plat No.: P-1884
MCE Project No.: 04-280A

Sheet: 1 of 13

UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
 1(800)424-5555
 CALL TWO BUSINESS DAYS
 BEFORE 10A. DIG

CONSTRUCTION NOTES

1. INSTALL STRAW BALE EROSION CONTROL MEASURE PER DETAIL THIS SHEET.
2. INSTALL ROCK CONSTRUCTION ENTRANCE PER DETAIL THIS SHEET.
3. INSTALL 445 L.F. OF SILT FENCE PER DETAIL THIS SHEET.
4. INSTALL 250 L.F. OF SILT FENCE PER DETAIL THIS SHEET.

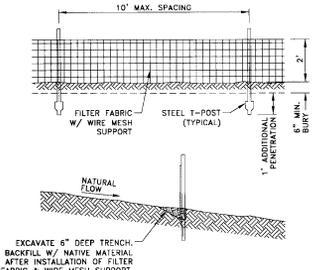
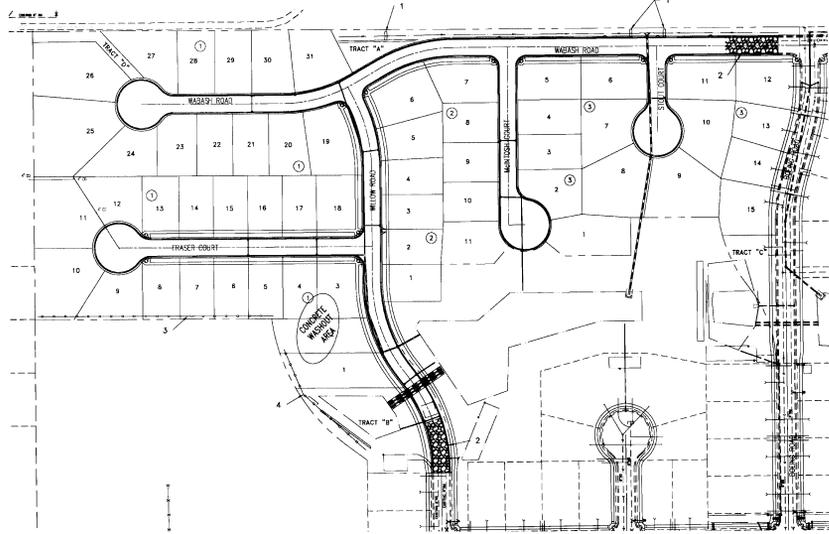
THE REQUIREMENTS SPECIFIED ON THIS EROSION CONTROL PLAN MEET THE ESC PLAN REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

EROSION & SEDIMENT CONTROL

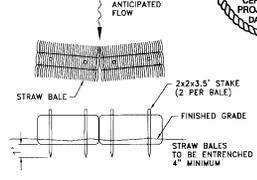
1. AN EROSION AND SEDIMENT CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE AND UPDATING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
2. APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.
3. THE ESC MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF-SITE, OR INTO ANY EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, INLETS, STORM PIPES OR CULVERTS.
4. GEOTEXTILE FABRIC AND DRAIN ROCK SHALL BE USED TO PROTECT NEW AND EXISTING DRYWELLS, CATCH BASINS AND INLETS. PER DETAIL THIS SHEET. THE VEGETATION ON THE SITE IS ESTABLISHED AND THE TREATMENT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
5. SILT FENCE (SEE DETAIL, THIS SHEET) SHALL BE INSTALLED BY THE CONTRACTOR AS NEEDED TO CONTROL OFFSITE EROSION, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LENGTH OF SILT FENCE SPECIFIED IS THE MINIMUM REQUIRED. ADDITIONAL SILT FENCE MAY BE NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO ANY EXISTING STORM DRAINAGE FACILITIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
7. 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 UPLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUIVALENT, AT A RATE OF 60 LBS/ACRE. SEE MIX SPECIFICATIONS, THIS SHEET.
8. ALL DRAINAGE CHANNELS SHALL BE EVALUATED FOR EROSION POTENTIAL. THOSE DRAINAGE COURSES WHICH ARE TO RECEIVE CONCENTRATED STORM WATER RUNOFF AND ARE FOUND TO BE SUBJECT TO EROSION FROM THE ANTICIPATED POST DEVELOPMENT RUNOFF SHALL BE EITHER LINED OR RIP-RAPPED TO MINIMIZE THE POTENTIAL FOR EXCESSIVE EROSION.
9. PROJECT DESCRIPTION: 57 LOT RESIDENTIAL DEVELOPMENT ON APPROXIMATELY 17.3 ACRES.
10. PROJECT LOCATION: NORTH OF WELLESLEY ROAD AND EAST OF ARGONNE ROAD, IN SPOKANE COUNTY, WASHINGTON.
11. PROPERTY DEVELOPER: FRASER ESTATES, L.L.C.
12. PROJECT CONTACT: MIKE HUME, FRASER ESTATES, L.L.C., 467-7400.
13. DESCRIPTION OF ESC MEASURES: SILT FENCE SEDIMENT CONTROL, STRAW BALE INLET PROTECTION AND ROCK CONSTRUCTION ENTRIES.
14. EXISTING VEGETATION: UNDEVELOPED AGRICULTURAL LAND.
15. NATIVE SOILS: GARBISON GRAVELLY LOAM (GgA) AND PHOENIX SANDY LOAM (PnA), BASED ON SHEET 57 OF THE SCS SOILS SURVEY OF SPOKANE COUNTY, WASHINGTON.
16. PLAN PREPARATION DATE: APRIL, 2006.

MAINTENANCE

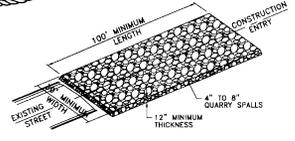
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL TEMPORARY ESC MEASURES.
2. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC 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 DEPOSIT REMAINING IN PLACE AFTER THE ESC STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. ALL TEMPORARY AND PERMANENT ESC PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
7. ALL TEMPORARY ESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE CONTRACTOR 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 WATER UNDER PRESSURE. SWEEPING AND WATER SHALL BE USED WHICH WATER PRESSURE ALONE WILL NOT WASH THE CONSTRUCTION DEBRIS FROM THE STREET.
9. DUST CONTROL: AN APPROVED METHOD OF DUST CONTROL, MEETING THE REQUIREMENTS OF LOCAL REGULATIONS SHALL BE UTILIZED DURING THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MATERIALS WHICH SPILL ONTO LOCAL STREETS DURING THE TRANSPORTATION OF THE EQUIPMENT. SHOULD A SPILL OCCUR, THE CONTRACTOR SHALL REMOVE THE MATERIAL. BY THE END OF THE DAY, NO MATERIAL SHALL BE ALLOWED TO SET, DRY OR BE WASHED INTO ADJACENT STORMWATER FACILITIES.



SILT FENCE DETAIL



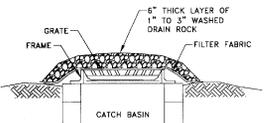
STRAW BALE DETAIL



CONSTRUCTION ENTRY DETAIL

DRYLAND GRASS SEED MIX

PER APPENDIX E, SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT:
 GRASS SEED PROVIDED SHOULD BE CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:
 10% - ELKA PERENNIAL RYE
 20% - DURAR HARD FESCUE
 45% - COWHAY SHEEP/VEGETAL
 15% - REUBENS CANADIAN BLUEGRASS
 10% - OTHER
 PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:
 GRASS SEED: 90 LBS. PER ACRE
 FERTILISER: 16-18-16 TRAC RELEASE COMPOSITION, 300 LBS. PER ACRE
 ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATION, SECTION 8-01.



CATCH BASIN DETAIL

DATUM NAVD'88
 BASED ON WSDOT GNS MGN 032290-22
 LOCATED ON SOUTH SIDE OF TRENT AVENUE
 APPROXIMATELY 200' WEST OF PINES ROAD.
 ELEVATION = 1908.76' (608.484 METERS).

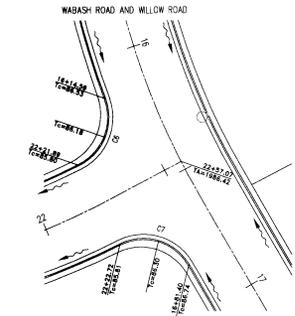
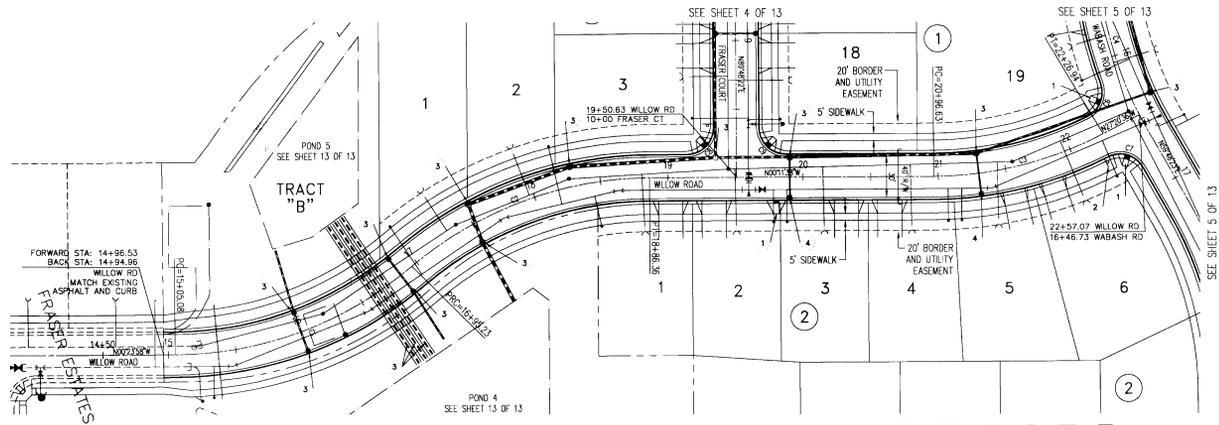
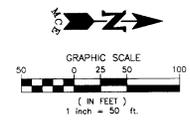


DEVELOPER'S APPROVAL _____ DATE _____

P-18428 Eng JB/Buell

Mountain Crest Enterprises Inc.
 402 E. First Street, Spokane, WA 99201
 (509) 466-5794 Fax: 468-1514
 FRASER ESTATES
 2ND ADDITION
 EROSION CONTROL PLAN
 SPOKANE COUNTY, WA
 STREET PLANS
 County P/L No. P-1864
 MCE Project No. 04-1280A
 Sheet 2 of 13

UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
 1(800)424-5555
 CALL 140 BUSINESS DAYS
 BEFORE YOU DIG



DATE: 04/17/08
 DRAWN BY: J. BULL
 COUNTY REVIEW COMMENTS: CONSTRUCTION PLANS
 04/17/08

CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	196.14	275.00	99.05	186.38	39°28'54"
C2	191.15	275.00	99.81	187.51	39°48'16"
C3	196.31	275.00	99.45	188.09	39°28'54"
C4	28.38	20.00	18.07	26.82	84°12'05"
C7	28.94	20.00	18.58	27.14	83°48'40"
C8	31.42	20.00	20.00	28.28	90°00'00"
C9	31.42	20.00	20.00	28.28	90°00'00"

CONSTRUCTION NOTES

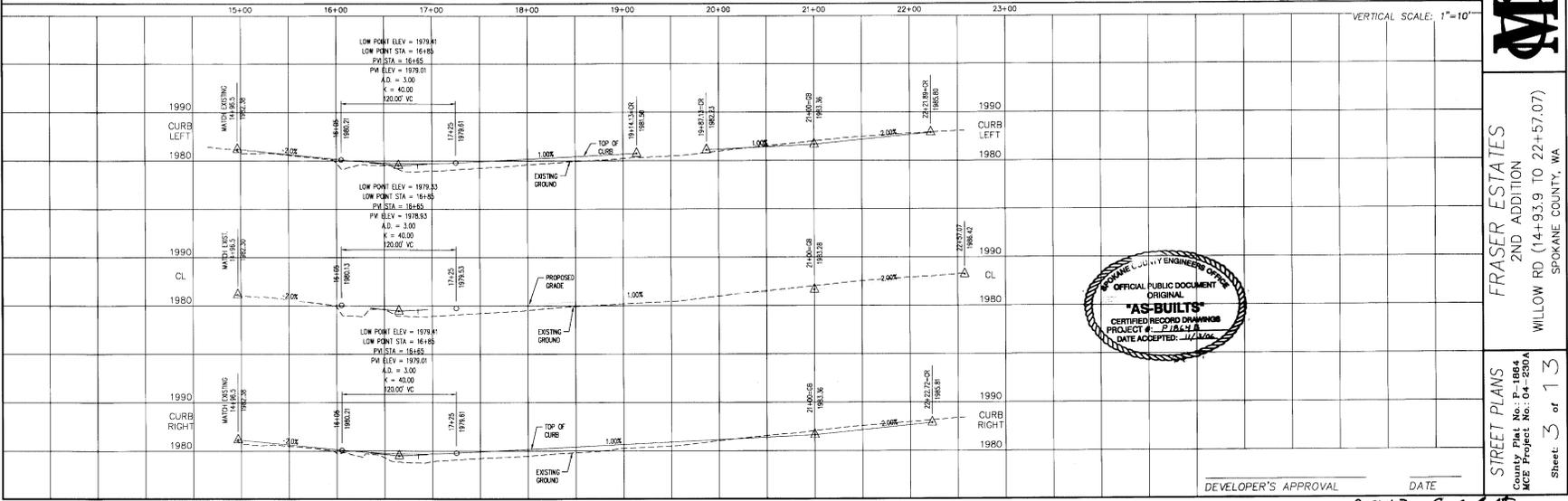
- 1 CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "B".
- 2 INSTALL STREET NAME SIGN PER W.A.T.C.D. AND SPOKANE COUNTY STANDARDS.
- 3 SEE DRAINAGE DETAILS SHEET 10.
- 4 SEE DRAINAGE DETAILS SHEET 11.

RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.
 Surveying was provided by Jeff Mackielet of Century Survey.

Jeff Mackielet
 4/17/08
 EX-111 9/24/07

DATUM NAVD'88
 BASED ON WSDOT GPS MON GP32290-22
 LOCATED ON SOUTH SIDE OF TRENT AVENUE
 APPROXIMATELY 200' WEST OF PINES ROAD.
 ELEVATION = 1989.78' (606.484 METERS).



SPokane County Engineers Office
 OFFICIAL PUBLIC DOCUMENT
 ORIGINAL
"AS-BUILT"
 CERTIFIED RECORD DRAWINGS
 PROJECT # P-1864-B
 DATE ACCEPTED: 4/17/08

DEVELOPER'S APPROVAL _____ DATE _____

Mountain Crest Enterprises Inc.
 4024 East First Street
 P.O. Box 1800, Mead, WA 99021
 (509) 468-5747 Fax: 468-1014



FRASER ESTATES
 2ND ADDITION
 WILLOW RD (14+93.9 TO 22+57.07)
 SPOKANE COUNTY, WA

STREET PLANS
 County Plat No. P-1864
 MCE Project No. 04-230A
 Sheet: 3 of 13

P-1864-B Engle Build

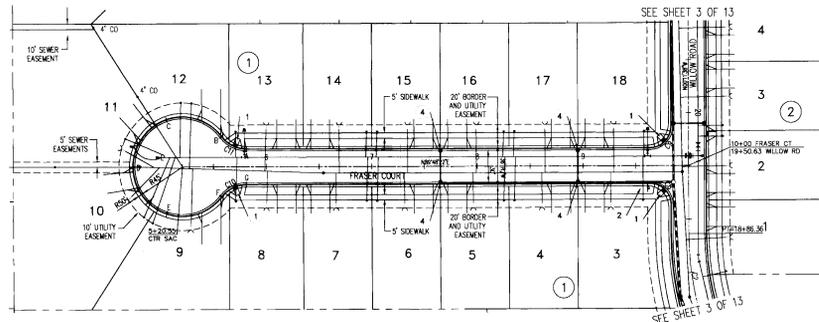
RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

Surveying was provided by Jeff Mockett of Century Survey.



SEC. 32, T.26 N., R.44 E., W.M.



CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
CB	31.42	20.00	20.00	28.28	90°00'00"
CB	31.42	20.00	20.00	28.28	90°00'00"
C10	27.82	30.00	14.83	28.97	302°33'58"
C11	27.82	30.00	14.83	28.97	302°33'58"

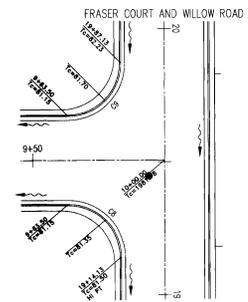
CONSTRUCTION NOTES

- CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "B".
- INSTALL STREET NAME SIGN PER M.U.T.C.D. AND SPOKANE COUNTY STANDARDS.
- SEE DRAINAGE DETAILS SHEET 11.

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

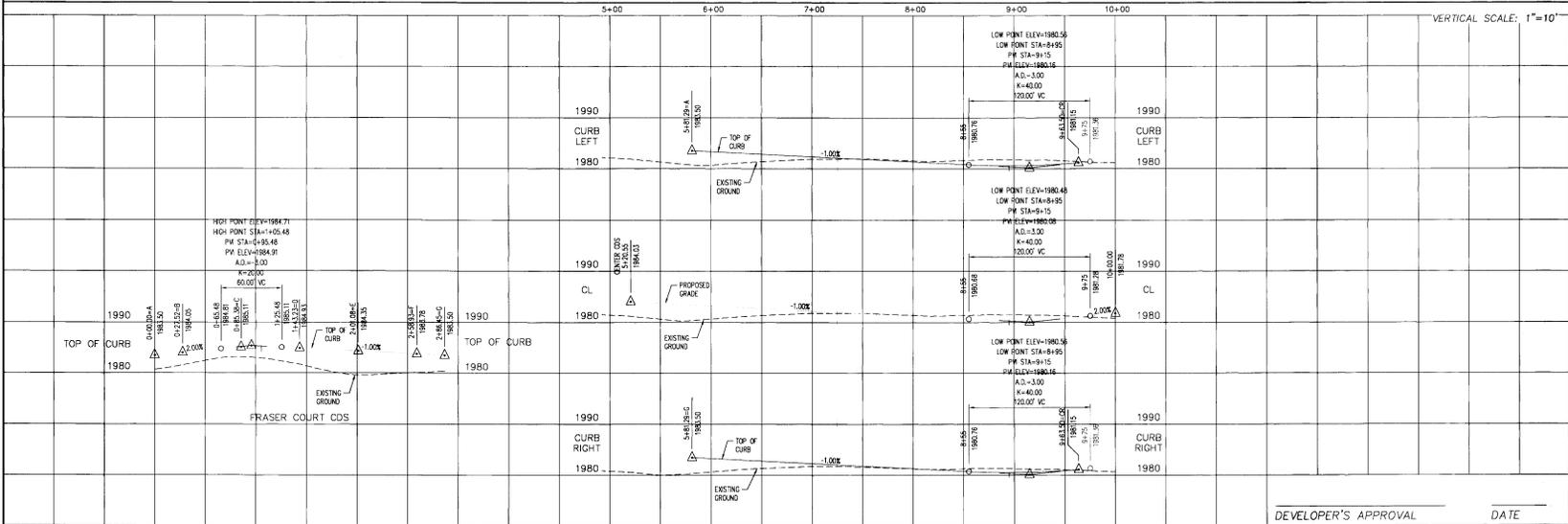
GRAPHIC SCALE
0 25 50 100
(IN FEET)
1 inch = 50 ft.

FRASER COURT AND WILLOW ROAD



DATUM NAVD'88

BASED ON WSDOT GPS MON GP23290-22
LOCATED ON SOUTH SIDE OF TRENT AVENUE
APPROXIMATELY 200' WEST OF PINES ROAD
ELEVATION = 1989.78' (606.484 METERS)

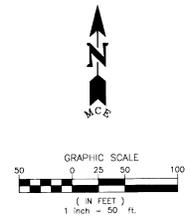
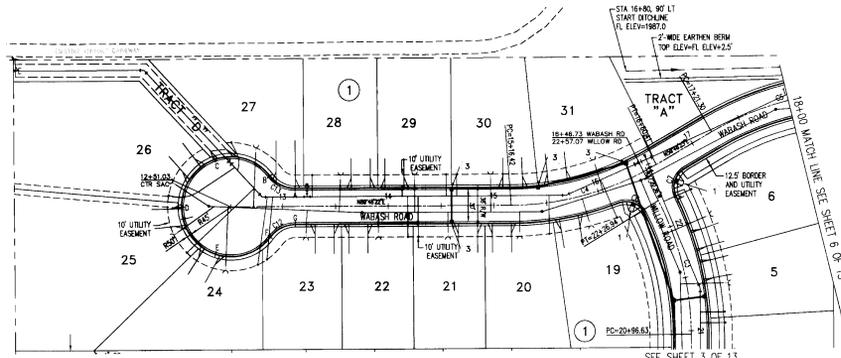


RECORD DRAWINGS

SEC. 32, T.26 N., R.44 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1(800)424-5555
CALL 190 BUSINESS DAYS
BEFORE YOU DIG

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.
Surveying was provided by Jeff Mackleit of Century Survey.

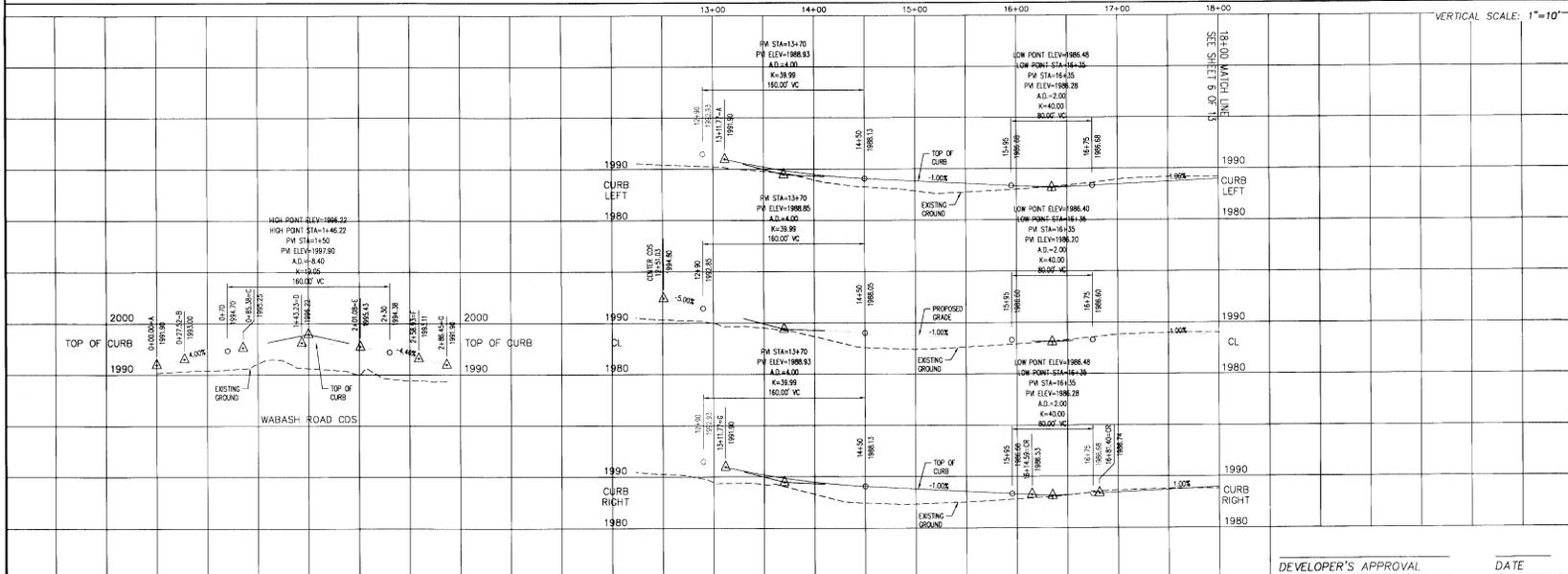


CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C4	143.99	275.00	73.89	142.35	30°00'00"
C5	29.39	20.00	18.07	26.40	84°12'00"
C7	29.44	20.00	18.54	27.54	82°48'00"
C12	27.52	30.00	14.82	26.57	32°32'36"
C13	27.52	30.00	14.82	26.57	32°32'36"

CONSTRUCTION NOTES

1. CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "B".
2. SEE DRAINAGE DETAILS SHEET 10.
3. SEE DRAINAGE DETAILS SHEET 10.

DATUM NAVD'88
BASED ON W8207 GPS MON GP32290-22
LOCATED ON SOUTH SIDE OF TRENT AVENUE
APPROXIMATELY 200' WEST OF FINES ROAD.
ELEVATION = 1989.78' (606.484 METERS).



Mountain Crest Enterprises, Inc.
1000 N. Grand Ave., Suite 100
Spokane, WA 99001
P.O. Box 1806
Spokane, WA 99001
(509) 486-5794
(509) 486-1514



FRASER ESTATES
2ND ADDITION
WABASH RD (124+51.03 TO 18+00)
SPOKANE COUNTY, WA

STREET PLANS
County Plat No. P-1864
MCE Project No. 04-230A
Sheet 5 of 13

DEVELOPER'S APPROVAL _____ DATE _____

P-1864-B *Dryden Built*

RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

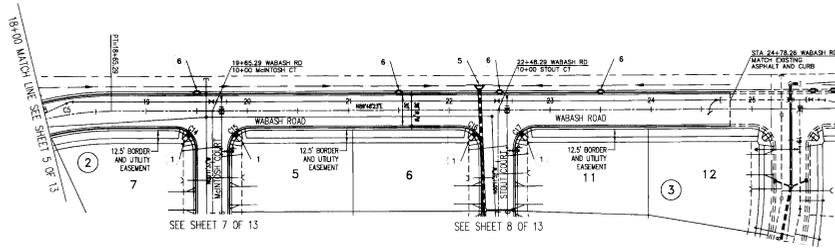
Surveying was provided by Jeff Meckelt of Century Survey.



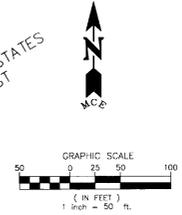
SEC. 32, T.26 N., R.44 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1(800)424-5555
CALL 24HR BUSINESS DAYS
BEFORE YOU DIG

DATE ACTIVITY
07/20/16 ORIGINAL IMPROVEMENTS
08/14/16 CONSTRUCTION PLANS
04/10/18 CONSTRUCTION PLANS



FRASER ESTATES EAST



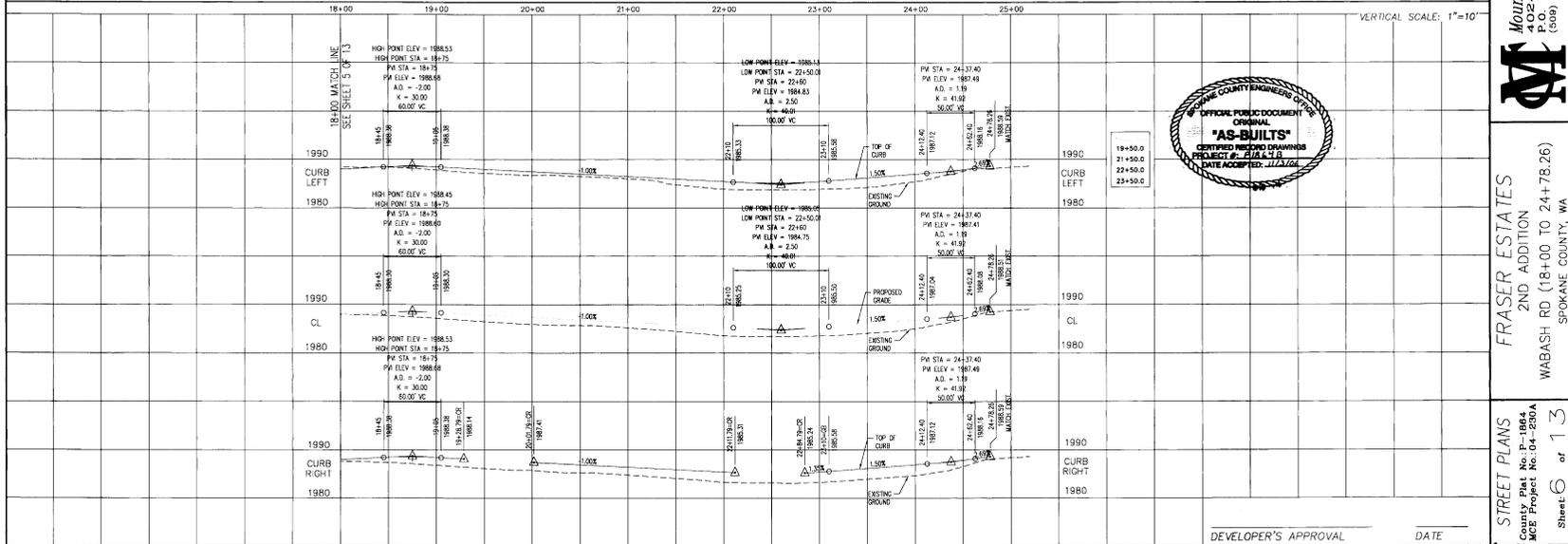
CONSTRUCTION NOTES

- 1 CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "B".
- 5 SEE DRAINAGE DETAILS SHEET 12
- 6 CURB INLET TYPE 1 PER SPOKANE COUNTY STD PLAN B-8, L#4.
SEE CURB PROFILE FOR LOCATIONS.

CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C3	13.87	275.00	75.68	112.31	90°00'00"
C14	31.42	20.00	20.00	28.28	90°00'00"
C15	31.42	20.00	20.00	28.28	90°00'00"
C16	31.42	20.00	20.00	28.28	90°00'00"
C17	31.42	20.00	20.00	28.28	90°00'00"

DATUM NAVD'83

BASED ON WDOT GPS MON @ 32280-72
LOCATED ON SOUTH SIDE OF "HENT" AVENUE
APPROXIMATELY 200' W OF PINE ROAD.
ELEVATION = 1989.78' (606.494 METERS).



Mountain Crest Enterprises, Inc.
4024 East First Street
P.O. Box 1800, Mead, WA 99021
(509) 466-5794 Fax: 466-1014



FRASER ESTATES
2ND ADDITION
WABASH RD (18+00 TO 24+78.26)
SPOKANE COUNTY, WA

STREET PLANS
County Plat No. P-1884,
ACS Project No. 04-200A
Sheet 6 of 13

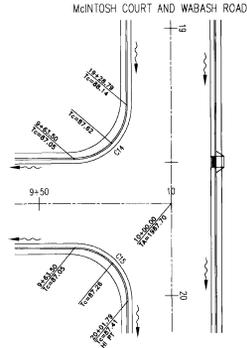
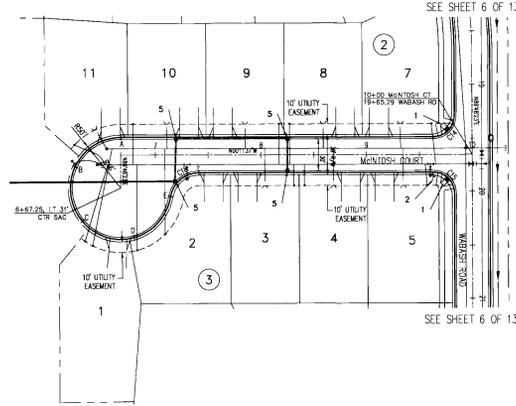
DEVELOPER'S APPROVAL _____ DATE _____
P-1884-B Eng'g Built

SEC. 32, T.26 N., R.44 E., W.M.

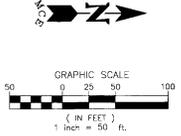
RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

Surveying was provided by Jeff Mackleit of Century Survey.



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1(800)424-5555
CALL 962 SURPLUS DATES
BEFORE YOU DIG



DATE: 04/15/2014
DRAWN BY: J. MACKLEIT
CHECKED BY: J. MACKLEIT
SPokane County Engineer
10/17/2006
10/17/2006
10/17/2006

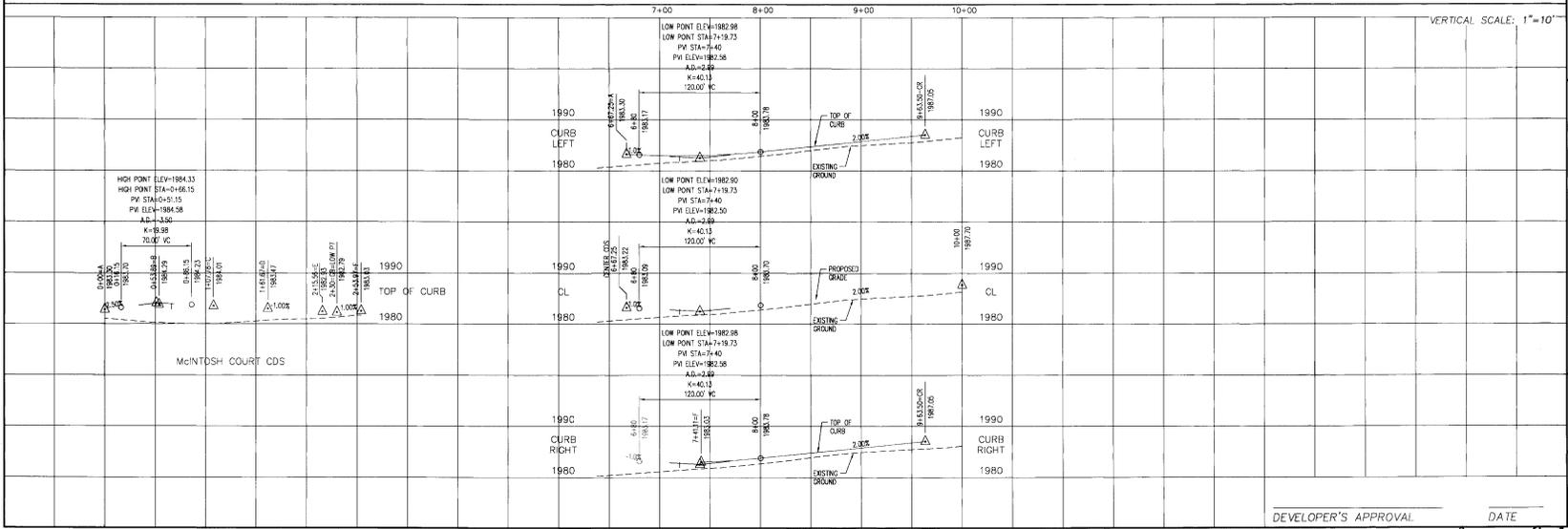
CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C14	31.42	20.00	20.00	28.28	90°00'00"
C13	31.42	20.00	20.00	28.28	90°00'00"
C18	27.90	25.00	25.26	35.26	80°01'06"

CONSTRUCTION NOTES

- CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "B".
- INSTALL STREET NAME SIGN PER MULTIC.D. AND SPOKANE COUNTY STANDARDS.
- SEE DRAINAGE DETAILS SHEET 12.



DATUM NAVD'88
BASED ON WSDOT GPS MON GP32290-22
LOCATED ON SOUTH SIDE OF TRENT AVENUE
APPROXIMATELY 200' WEST OF FINES ROAD.
ELEVATION = 1989.78' (606.484 METERS).



Mountain Crest Enterprises Inc.
4024 East First Street
C/O Box 1900, Mead WA 99021
(509) 468-5787 Fax: 468-1814



FRASER ESTATES
2ND ADDITION
McINTOSH CT (8+67.25 TO 10+00)
SPOKANE COUNTY, WA

STREET PLANS
County Plat No. P-1884
MCE Project No. 04-04-230A
Sheet 7 of 13

DEVELOPER'S APPROVAL _____ DATE _____

P-1884-B Eng'g Built

SEC. 32, T.26 N., R.44 E., W.M.

RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

Surveying was provided by Jeff Macklett of Century Survey.

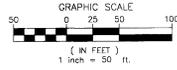
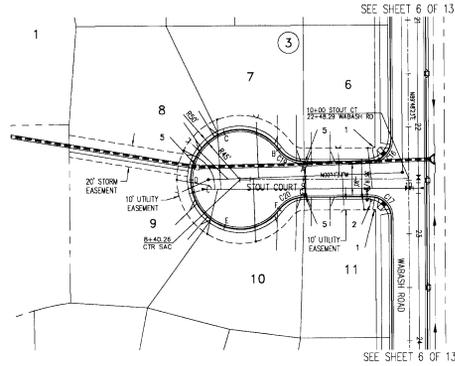


EXEMPT 124107

DATUM NAVD'88

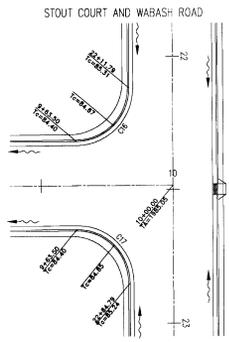
BASED ON WSDOT GPS MON GP23299-22
 LOCATED ON SOUTH SIDE OF TRENT AVENUE
 APPROXIMATELY 200' WEST OF PINES ROAD
 ELEVATION = 1989.76' (606.494 METERS).

CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C16	31.42	20.00	20.00	28.28	90°00'00"
C17	31.42	20.00	20.00	28.28	90°00'00"
C18	27.52	50.00	14.82	26.57	57°33'59"
C20	27.52	50.00	14.82	26.57	57°33'59"



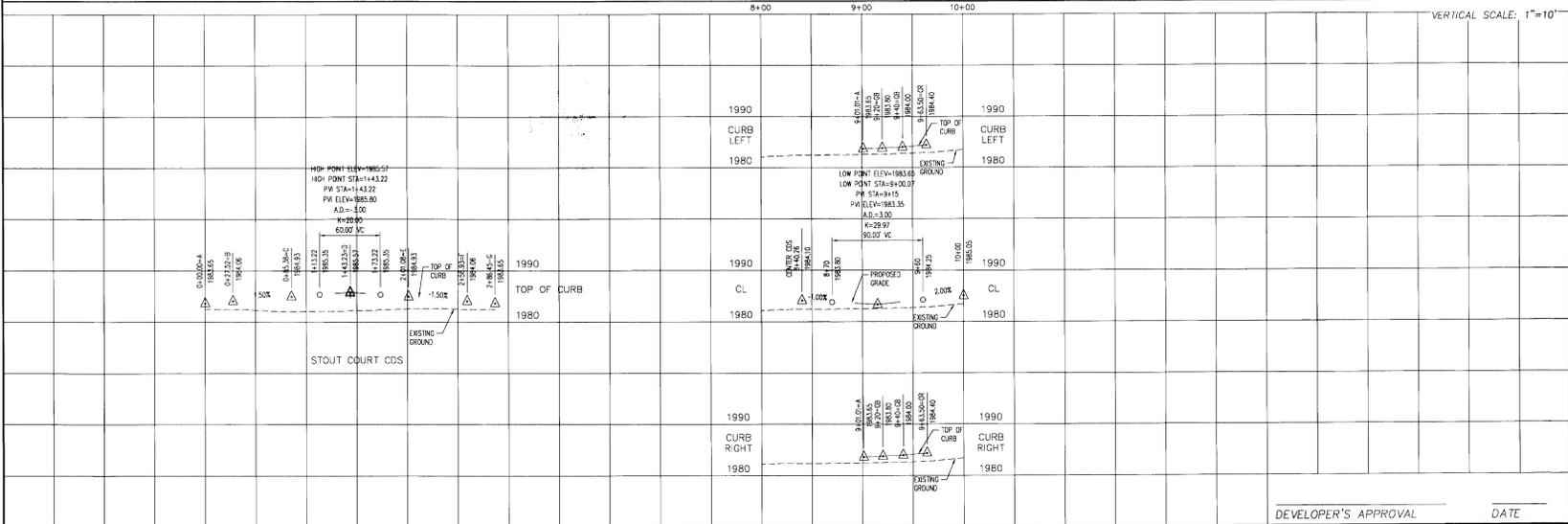
UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
1(800)424-5555
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG

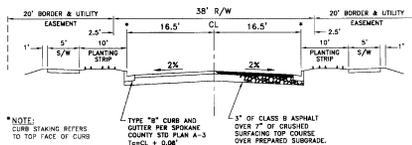
DATE: _____
 ACTIVITY: _____
 DRAWN BY: _____
 COUNTY: SPOKANE
 PROJECT NAME: _____
 DATE: _____



CONSTRUCTION NOTES

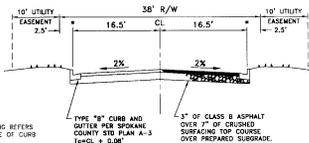
- CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN "B".
- INSTALL STREET NAME SIGN PER W.U.T.C.D. AND SPOKANE COUNTY STANDARDS.
- SEE DRAINAGE DETAILS SHEET 12.





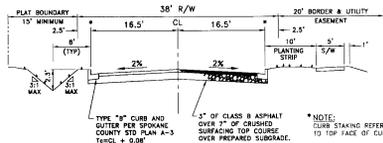
TYPICAL ROADWAY SECTION

WILLOW, FRASER NOT TO SCALE



TYPICAL ROADWAY SECTION

WABASH (STA 13+10 TO 16+50), MCINTOSH, STOUT NOT TO SCALE



TYPICAL ROADWAY SECTION

WABASH (STA 16+50 TO 24+80) NOT TO SCALE

NOTE:
DITCH SECTION (STA 18+40 TO 24+80)
SHALL BE SEEDED WITH DRYLAND GRASS SEED MIX
(AT A WINDOW) AS SPECIFIED ON SHEET 2 OF 13.

CONSTRUCTION NOTES

PAVEMENT SUBGRADE (-2" AND BELOW) SHALL BE COMPACTED TO 92% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

PAVEMENT SUBGRADE (-2" TO SUBGRADE) SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.

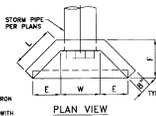
SUBGRADE PROOF-ROLLING WITH A LOADED DUMP TRUCK IS RECOMMENDED. PROOF-ROLLING SHOULD BE OBSERVED BY INSPECTION ENGINEER FOR PROPER EVALUATION OF SUBGRADE PREPARATION PRIOR TO BASE ROCK PLACEMENT.

CRUSHED SURFACING TOP COURSE SHALL FOLLOW WSDOT STANDARD SPECIFICATION S-03.3(3), AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.

ASPHALT SHALL FOLLOW WSDOT STANDARD SPECIFICATIONS FOR CLASS A ASPHALT, AND SHALL BE COMPACTED TO 92% OF THE RICE DENSITY.

D	L	E	F	W
18"	2'-1 1/2"	2'-2"	2'-10 1/2"	2'-4"
24"	2'-1 1/2"	1'-4"	2'-10 1/2"	2'-4"
30"	1'-8 3/4"	2'-2"	2'-4 1/2"	2'-2"
36"	1'-11 1/2"	2'-4"	2'-4 1/2"	2'-4"

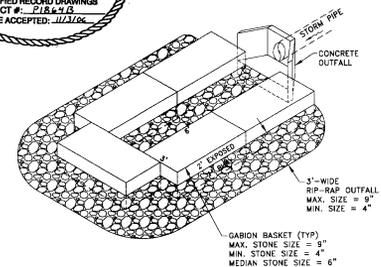
NOTE:
MINIMUM CONCRETE MIX FOR HEADWALL AND APRON SHALL BE 5 1/2" SACK, 3000 PSI.
HEADWALL, CURB AND WALL TO BE REINFORCED WITH #4 BARS @ 4" O.C. EACH DIRECTION THROUGHOUT.
1" CHAMFER ON ALL EXPOSED CORNERS OF WALLS.



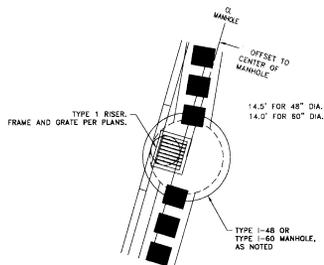
SECTION FRONT VIEW

CONCRETE HEADWALL

WILBERT PRECAST - PRODUCT #4016



GABION DISSIPATER DETAIL



STORM MANHOLE DETAIL

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

Surveying was provided by Jeff Morkleitt of Century Survey.



RECORD DRAWINGS

DATUM NAVD'88
BASED ON WSDOT GPS MON GP32290-22
LOCATED ON SOUTH SIDE OF TRENT AVENUE
APPROXIMATELY 200' WEST OF PINES ROAD.
ELEVATION = 1989.76' (506.466 METERS)

DEVELOPER'S APPROVAL DATE

P-1844-B *Jeff Morkleitt*

Mountain Crest Enterprises Inc.
4024 East First Street
P.O. Box 1800, Mead, WA 99021
(509) 468-5794 Fax: 468-1014



FRASER ESTATES
2ND ADDITION
DETAILS

STREET PLANS
Sheet No. 04-230A
WCE Project No. 04-230A

Sheet 9 of 13

Date: Activity:
4/10/2006 REVISION
4/10/2006 COUNTY REVIEW COMMENTS
5/17/2006 CONSTRUCTION PLANS

RECORD DRAWINGS

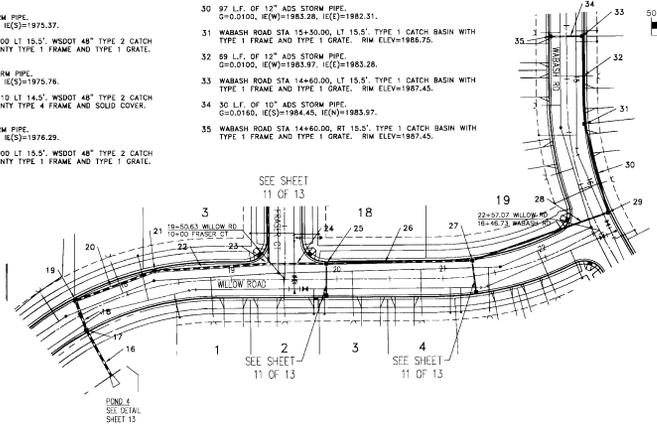
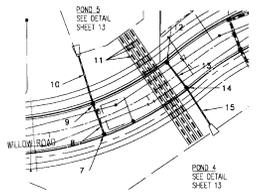
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Surveying was provided by Jeff Mackleit of Century Survey.

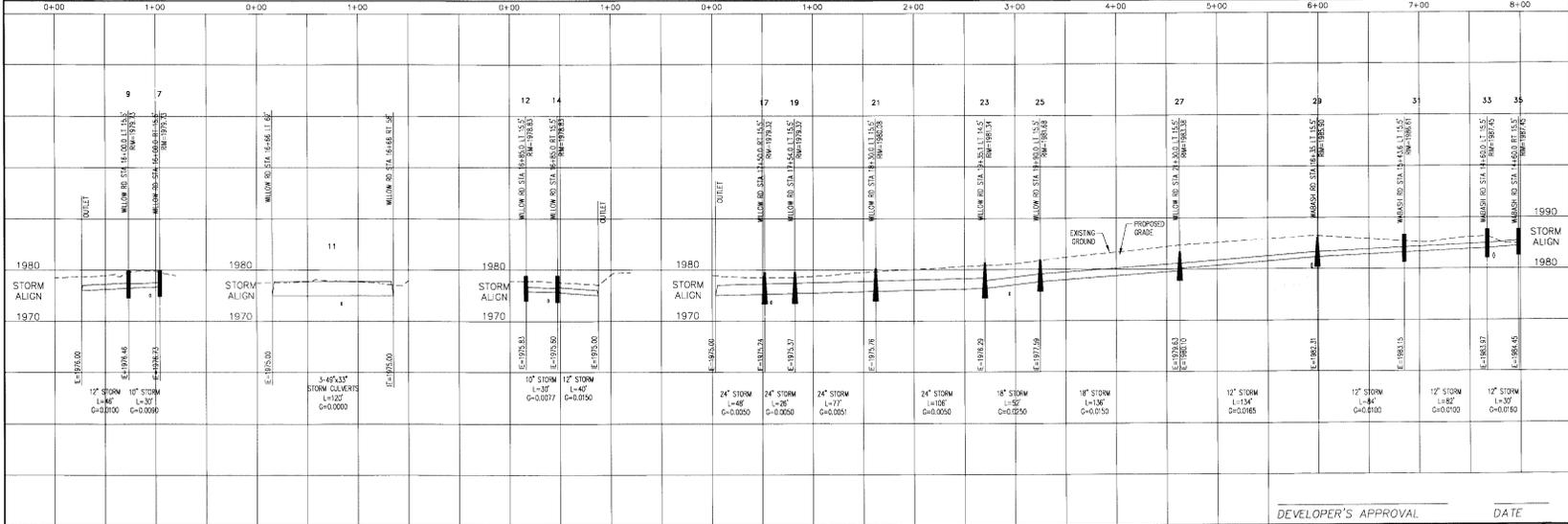


CONSTRUCTION NOTES

- 1 ALL CATCH BASINS SHALL BE INSTALLED WITH 1" DEEP GUTTER DEPRESSION PER SPOKANE COUNTY STANDARD PLAN 8-12. RIM ELEVATIONS NOTED INCLUDE 1" DEPRESSION.
- 2 WILLOW ROAD STA 16+00.0, RT 15.5', TYPE 1 CATCH BASIN WITH TYPE 2 FRAME WITH HOOD AND TYPE 1 GRATE. RIM ELEV=1979.75.
- 3 30 L.F. OF 10" ADS STORM PIPE. G=0.0090, I(E)=1976.75, I(W)=1976.46.
- 4 WILLOW ROAD STA 16+00.0, LT 15.5', TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1979.75.
- 5 46 L.F. OF 12" ADS STORM PIPE. G=0.0100, I(E)=1976.46, I(W)=1976.00.
- 6 WILLOW ROAD STA 16+46.0, RT 15.5', TYPE 1 CATCH BASIN WITH TYPE 2 FRAME WITH HOOD AND TYPE 3 GRATE. RIM ELEV=1979.85.
- 7 30 L.F. OF 10" ADS STORM PIPE. G=0.0077, I(W)=1975.85, I(E)=1975.60.
- 8 WILLOW ROAD STA 16+85.0, LT 15.5', TYPE 1 CATCH BASIN WITH TYPE 2 FRAME WITH HOOD AND TYPE 3 GRATE. RIM ELEV=1979.85.
- 9 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 10 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 11 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 12 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 13 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 14 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 15 40 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(E)=1975.60, I(W)=1975.00.
- 16 48 L.F. OF 24" ADS STORM PIPE WITH TRASH RACK EAST END. G=0.0050, I(E)=1975.24, I(W)=1975.00.
- 17 WILLOW ROAD STA 17+50.0, RT 15.5', WSDOT 48" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1979.32.
- 18 26 L.F. OF 24" ADS STORM PIPE. G=0.0050, I(W)=1979.32, I(E)=1979.24.
- 19 WILLOW ROAD STA 17+54.0, LT 15.5', WSDOT 44" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1979.32.
- 20 77 L.F. OF 24" ADS STORM PIPE. G=0.0051, I(E)=1975.76, I(W)=1975.37.
- 21 WILLOW ROAD STA 18+50.0, LT 15.5', WSDOT 48" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1980.08.
- 22 106 L.F. OF 24" ADS STORM PIPE. G=0.0050, I(E)=1976.29, I(W)=1975.76.
- 23 WILLOW ROAD STA 19+35.10, LT 14.5', WSDOT 48" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 4 FRAME AND SOLID COVER. RIM ELEV=1981.34.
- 24 52 L.F. OF 18" ADS STORM PIPE. G=0.0200, I(E)=1977.39, I(W)=1976.29.
- 25 WILLOW ROAD STA 19+80.00, LT 15.5', WSDOT 48" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1981.68.
- 26 136 L.F. OF 18" ADS STORM PIPE. G=0.0150, I(E)=1979.63, I(W)=1977.59.
- 27 WILLOW ROAD STA 21+30.00, LT 15.5', WSDOT 48" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1983.58.
- 28 134 L.F. OF 12" ADS STORM PIPE. G=0.0165, I(E)=1982.31, I(W)=1980.10.
- 29 WABASH ROAD STA 16+35.00, LT 15.5', TYPE 1 CATCH BASIN WITH TYPE 1 FRAME WITH HOOD AND TYPE 3 GRATE. RIM ELEV=1985.90.
- 30 87 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(W)=1983.39, I(E)=1982.31.
- 31 WABASH ROAD STA 15+30.00, LT 15.5', TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1986.75.
- 32 69 L.F. OF 12" ADS STORM PIPE. G=0.0200, I(W)=1983.97, I(E)=1983.28.
- 33 WABASH ROAD STA 14+60.00, LT 15.5', TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1987.45.
- 34 30 L.F. OF 10" ADS STORM PIPE. G=0.0200, I(E)=1984.45, I(W)=1983.57.
- 35 WABASH ROAD STA 14+60.00, RT 15.5', TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE. RIM ELEV=1987.45.



DATUM NAVD'88
 BASED ON WSDOT GPS MON. CP32290-27
 LOCATED ON SOUTH SIDE OF TREX AVENUE
 APPROXIMATELY 200' WEST OF PINES ROAD.
 ELEVATION = 1989.78' (606.464 METERS).



UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
 1(800)424-5555
CALL 24 HOURS BEFORE DIGGING
 TO PREVENT UNEXPECTED
 DAMAGE TO YOUR PROJECT

Date: Activity: Location: County: Review Comments: Date: 04/10/08 Construction Plans

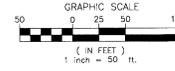
Mountain Crest Enterprises Inc.
 4024 East First Street
 P.O. Box 1800, Mead, WA 99021
 (509) 466-5794 Fax: 466-1514

FRASER ESTATES
 2ND ADDITION
 DRAINAGE DETAILS (WILLOW ROAD)
 SPOKANE COUNTY, WA

STREET PLANS
 City File No. P-1894
 MCD Project No. 04-230A
 Sheet: 1 of 3

DEVELOPER'S APPROVAL _____ DATE _____
P-1894-B Eng. As-Built

SEC. 32, T.26 N., R.44 E., W.M.

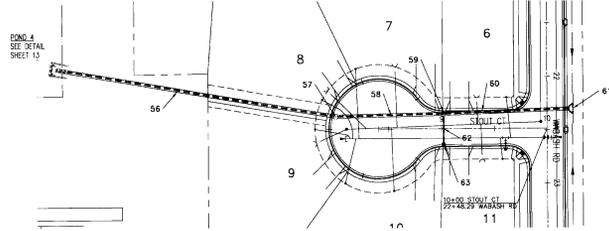
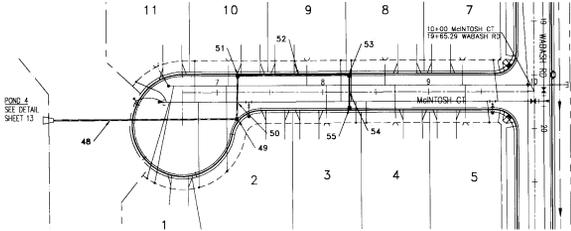


UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
1(800)424-5555
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG

CONSTRUCTION NOTES

- 1 ALL CONCRETE MANHOLETS SHALL BE INSTALLED WITH 1" DEEP GUTTER DEPRESSION FOR SPOKANE COUNTY STANDARD PLAN 8-18. RM ELEVATIONS NOTES INCLUDE 1" DEPRESSION.
- 48 172 L.F. OF 12" ADS STORM PIPE. G=0.0150, I(E)=1978.36, I(E)=1976.00.
- 49 MINTOSH COURT STA 7+19.30, RT 15.5'. TYPE 1-48 MANHOLE WITH TYPE 1 FRAME, TYPE 2 FRAME WITH HOOD AND TYPE 3 GRATE. RM ELEV=1982.21.
- 50 38 L.F. OF 12" ADS STORM PIPE. G=0.0150, I(E)=1978.15, I(E)=1978.58.
- 51 MINTOSH COURT STA 7+19.30, RT 15.5'. TYPE 1 CATCH BASIN WITH TYPE 2 FRAME WITH HOOD AND TYPE 3 GRATE. RM ELEV=1982.40.
- 52 105 L.F. OF 12" ADS STORM PIPE. G=0.0119, I(E)=1980.40, I(E)=1979.15.
- 53 MINTOSH COURT STA 8+75.00, RT 15.5'. TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE. RM ELEV=1983.70.
- 54 30 L.F. OF 10" ADS STORM PIPE. G=0.0100, I(E)=1980.40, I(E)=1980.70.
- 55 MINTOSH COURT STA 8+75.00, RT 15.5'. TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE. RM ELEV=1983.70.
- 56 258 L.F. OF 36" ADS STORM PIPE WITH CONCRETE HEADWALL AND GABRISS DISSEPARATOR, SOUTH END (SEE SHEET 9 FOR DETAILS). G=0.0050, I(E)=1977.28, I(E)=1976.00.
- 57 STOUT CUL-DE-SAC STA 1+30.0, LT 4.5'. MANHOLE TYPE 1-60 WITH TYPE 4 FRAME AND SOLID COVER. RM ELEV=1985.08.
- 58 100 L.F. OF 36" ADS STORM PIPE. G=0.0050, I(E)=1977.78, I(E)=1977.28.
- 59 STOUT COURT STA 8+02.0, LT 15.5'. WSDOT 60" TYPE 2 CATCH BASIN WITH SPOKANE COUNTY TYPE 2 FRAME WITH HOOD AND TYPE 3 GRATE. RM ELEV=1983.15.
- 60 118 L.F. OF 36" ADS STORM PIPE. G=0.0273, I(E)=1981.00, I(E)=1977.78.
- 61 WARDEN ROAD STA 22+30.0, LT 21'. HEADWALL WILBERT PRECAST #4016.
- 62 28 L.F. OF 10" ADS STORM PIPE. G=0.0100, I(E)=1983.15, I(E)=1978.87.
- 63 STOUT COURT STA 8+02.0, RT 15.5'. TYPE 1 CATCH BASIN WITH TYPE 2 FRAME WITH HOOD AND TYPE 3 GRATE. RM ELEV=1983.15.

DDB - ACTIVITY
 04/05/08
 COUNTY REVIEW COMMENTS
 04/17/08
 CONSTRUCTION PLAN



RECORD DRAWINGS

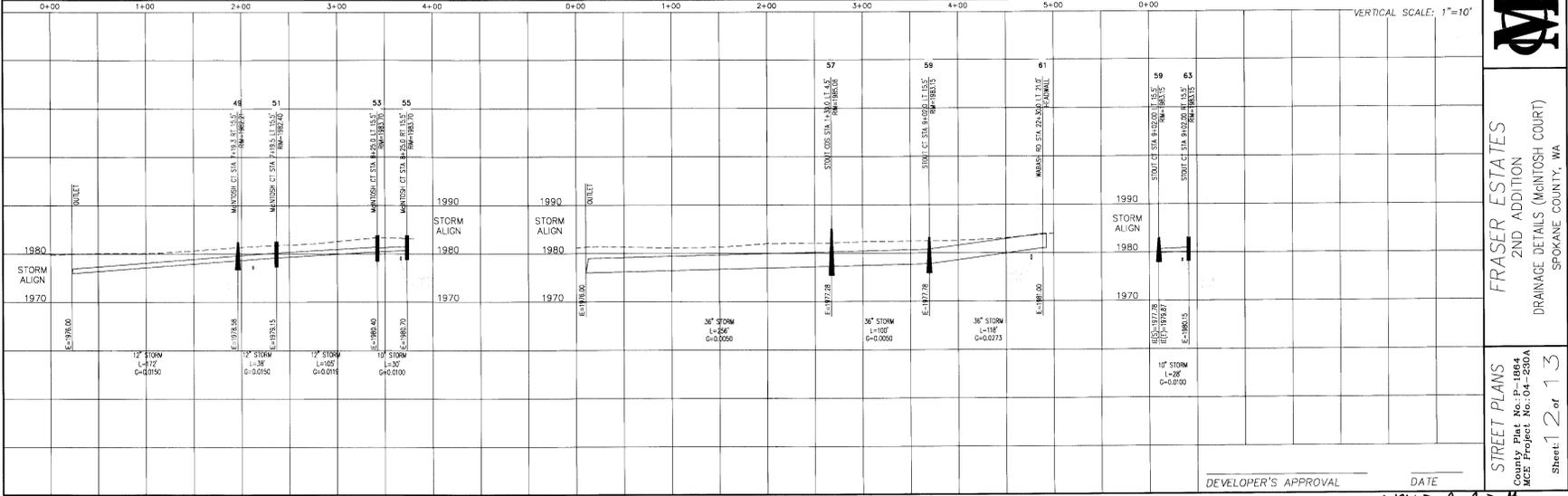
I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

Surveying was provided by Jeff Mockett of Century Survey.

J. Mockett
 4/11/06
 9/24/07



DATUM NAVD'88
 BASED ON WSDOT OPS MON GP32290-22
 LOCATED ON SOUTH SIDE OF TRENT AVENUE
 APPROXIMATELY 200' WEST OF PINES ROAD.
 ELEVATION = 1989.78' (606.484 METERS).



Mountain Crest Enterprises Inc.
 4024 East First Street
 P.O. Box 1800, Mead, WA, 99021
 (509) 466-1514 Fax: 466-1514



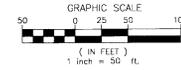
FRASER ESTATES
 2ND ADDITION
 DRAINAGE DETAILS (MINTOSH COURT)
 SPOKANE COUNTY, WA

STREET PLANS
 County Plat No.: P-1864
 MCE Project No.: 04-280A
 Sheet: 12 of 13

DEVELOPER'S APPROVAL _____ DATE _____

P-1864-B Eng'g Built

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

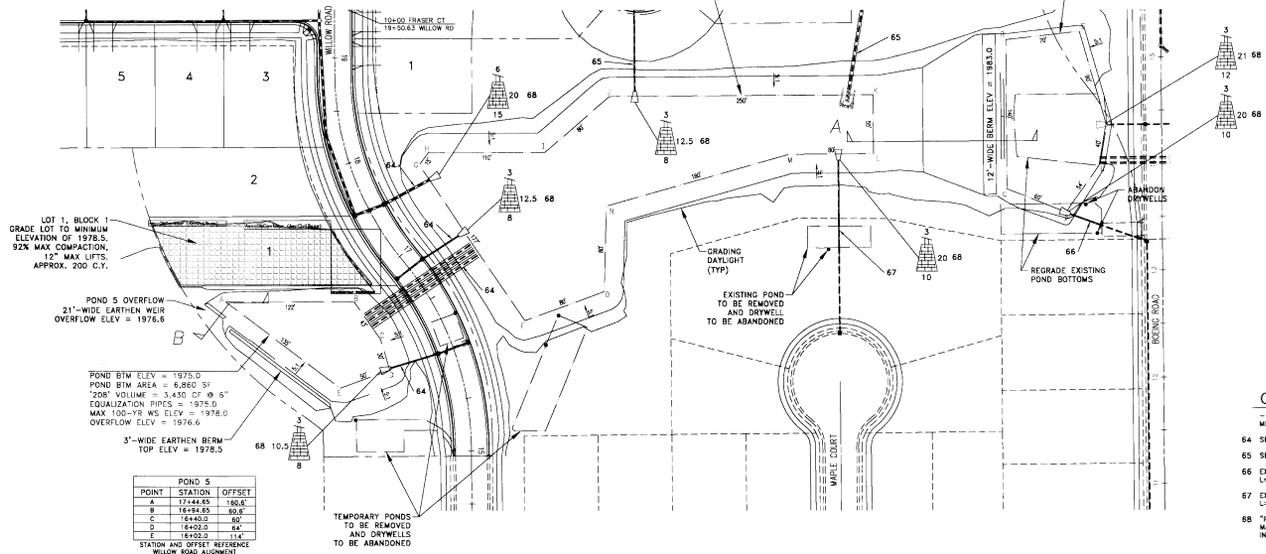


POND 4		
POINT	STATION	OFFSET ALIGNMENT
F	16+92.0	72'
G	17+79.0	60'
H	17+82.0	74'
I	18+90.0	168'
J	18+92.0	240'
K	14+66.6	273'
L	14+11.6	273'
M	14+17.6	353'
N	18+46.0	186'
O	16+00.0	152'

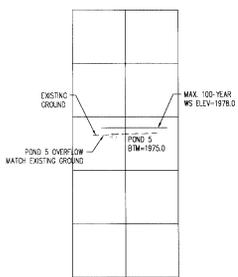
POND B1M ELEV = 1975.0
POND B1M AREA = 35,940 SF
200' VOLUME = 19,470 CF @ 6"
EQUALIZATION PIPES = 1973.0
MAX 100-YR WS ELEV = 1978.6

REVISED POND 3		
POINT	STATION	OFFSET
1	14+54.9	91.3'
2	13+77.4	147.0'
3	13+17.4	147.0'
4	13+24.5	77.5'
5	14+26.0	50.6'
6	13+98.6	98.6'

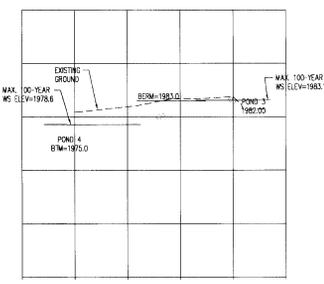
POND B1M ELEV = 1982.0
POND B1M AREA = 12,920 SF
200' VOLUME = 6,830 CF
MAX 100-YR WS ELEV = 1983.1
OVERFLOW ELEV = 1983.0



POND 5		
POINT	STATION	OFFSET
A	17+44.65	106.6'
B	16+94.65	99.8'
C	16+40.0	60'
D	16+02.0	84'
E	16+02.0	114'



POND SECTION "B"



POND SECTION "A"

CONSTRUCTION NOTES

- ALL DETENTION PONDS SHALL BE SEEDED WITH DRYLAND GRASS SEED MAT AT A MINIMUM, PER SPECIFICATIONS NOTED ON SHEET 2 OF 13.
- 64. SEE SHEET 10.
- 65. SEE SHEET 12.
- 66. EXTEND EXISTING 12" ADS STORM PIPE. L=30', G=0.020, END IE=1982.5.
- 67. EXTEND EXISTING 12" PVC STORM PIPE. L=82', G=0.022, END IE=1975.5.
- 68. "PYRAM" TURF REINFORCEMENT MAT AT PIPE OUTLETS. MAT DIMENSIONS AS NOTED. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

RECORD DRAWINGS

I have reviewed the construction of this project and to my knowledge find it to be in substantial conformance with the accepted plans and Spokane County Standards except as noted.

Surveying was provided by Jeff Mackel of Century Survey.



DEVELOPER'S APPROVAL _____ DATE _____

DATUM NAVD'88
BASED ON WSDOT GPS MON GP-32200-22
LOCATED ON SOUTH SIDE OF "TRAIL AVENUE"
APPROXIMATELY 280' WEST OF PINES ROAD.
ELEVATION = 1969.76' (606.484 METERS)

Mountain Crest Enterprises, Inc.
4052 4th East First Street
P.O. Box 1800, Mead, WA 99021
(509) 466-5794 Fax: 466-1514



FRASER ESTATES
2ND ADDITION
POND DETAILS, WILLOW ROAD
SPOKANE COUNTY, WA

STREET PLANS
County Plat No. P-686A
Mech. Project No. 04-250A
Sheet 13 of 13

8-1844-B Eng As Buiults