COVER SHEET FOR FRASER ESTATES STREET AND DRAINAGE PLANS

SW. 1/4 SEC. 32, T. 26 N., R.44 E., W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
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CLC Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 W. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 458-6840
Fax: (509) 458-6844

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL, P.E.
WASHINGTON REGISTRATION
NO. 26864
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

LEGEND

EXISTING | GENERAL | PROPOSED

- ROADWAY CENTER LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- EASEMENT LINE
- FENCE
- CURB
- PAVEMENT
- CONCRETE
- BUILDINGS & STRUCTURES

SANITARY SEWER

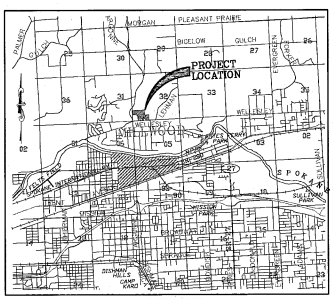
- SANITARY SEWER
- MANHOLE
- SEWER SERVICE
- MANHOLE COORDINATE (X.XE/XXX.XN)

WATER

- WATER LINE
- VALVE
- FIRE HYDRANT
- SERVICE
- METER
- AIR VACUUM RELIEF STATION
- HOSE BIBB

TELEPHONE – POWER

- POWER OR TELEPHONE POLE
- TRANSFORMER PAD
- GUY ANCHOR
- TELEPHONE RISER



VICINITY MAP

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SHEET C1.01A	DRAINAGE–STREET–GENERAL NOTES
SHEET C1.02	SECTIONS AND DETAILS
SHEET C1.03	GRADING PLAN
SHEET C1.04	WELLESLEY AVENUE, STA. 10+00.00 TO STA. 21+00.00
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SHEET C1.07	PRINCETON AVENUE, STA. 10+00.00 TO STA. 15+13.00
SHEET C1.08	MAPLE COURT, STA. 10+00.00 TO STA. 11+98.70
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SHEET C1.11	CHANNELIZATION
	EROSION AND SEDIMENT CONTROL
SHEET C1.12	EROSION CONTROL
SHEET C1.13	EROSION CONTROL

Date	Description
04/15/01	PRELIMINARY SUBMITTAL
06/01/01	REVISED PER SPOKANE COUNTY ENGINEER'S REVIEW COMMENTS
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: PLM
Designed By: RLM
Checked By: DNR

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NORTH 904 COLUMBUS
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SOLID WASTE
WASTE MANAGEMENT
P.O. BOX 114000
SPOKANE, WASHINGTON 99214-4000
PHONE: 509-466-3400

COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 6 OF 21, ELEVATION=1956.64

DAVID N. RANDALL
STATE OF WASHINGTON
26864
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

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.

DEVELOPER'S APPROVAL

THE UNDERSIGNED DEVELOPER OR HIS ASSIGNS AGREES TO CONSTRUCT IMPROVEMENTS IN ACCORDANCE WITH THIS PLAN, AND UPON COMPLETION, THE DEVELOPER IS RESPONSIBLE FOR SUBMITTING REPRODUCIBLE RECORD DRAWINGS TO BE COMPLETED BY A PROFESSIONAL ENGINEER AND/OR PROFESSIONAL LAND SURVEYOR FOR REVIEW AND APPROVAL BY SPOKANE COUNTY UTILITIES DEPARTMENT AT THE COMPLETION OF CONSTRUCTION.

D. Randall For Mike Kinney — 2/6/02
DEVELOPER'S APPROVAL — DATE

THIS CONSTRUCTION PLAN EXPIRES ONE (1) YEAR FROM DATE OF APPROVAL.

RECORD DRAWING APPROVAL(ENGINEER/SURVEYOR) — DATE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
P1644
PROJECT #:
DATE ACCEPTED: 02-01-02
ACCEPTANCE EXPIRES: 02-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

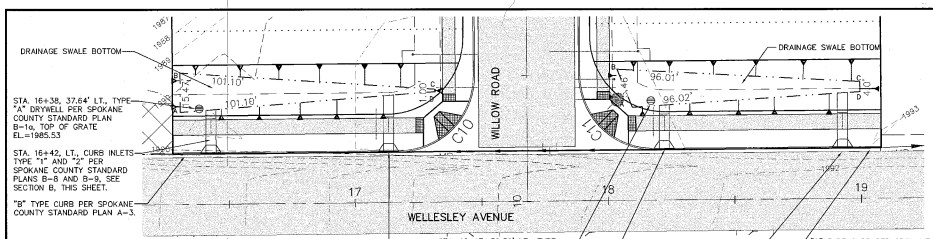
Brian Markham For Kinney/Matteson Corp its manager — 2/14/02
D. Randall For Mike Kinney — 2/6/02
DEVELOPER'S APPROVAL — DATE

STREET AND DRAINAGE CONSTRUCTION PLANS
FRASER ESTATES
COVER SHEET
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET AND DRAINAGE COVER SHEET

C1.00
Sheet Number

P-1864 Eng Road & Drainage



SWALE BOTTOM LOCATION TABLE WELLESLEY AVENUE STATION & OFFSET		
POINT	STATION	OFFSET
A	16+30.70	36.50' LT.
B	16+30.71	51.97' LT.
C	17+31.55	44.75' LT.
D	17+31.55	43.77' LT.

SWALE "A"
SWALE BOTTOM EL.=1985.03
SWALE BTM AREA PROVIDED=735 S.F.
MIN. BERM ELEV.=1985.78

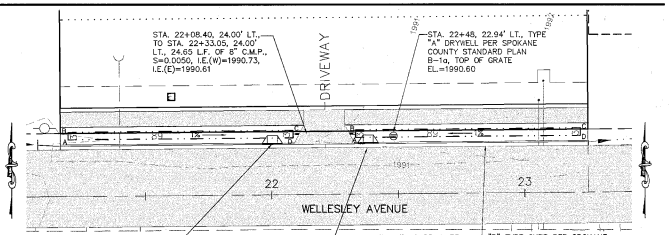
SWALE "B"
SWALE BOTTOM EL.=1989.90
SWALE BTM AREA PROVIDED=634 S.F.
MINIMUM BERM ELEV.=1990.65

SWALE BOTTOM LOCATION TABLE WELLESLEY AVENUE, STATION AND OFFSET		
POINT	STATION	OFFSET
A	18+03.79	35.63' LT.
B	18+03.56	51.96' LT.
C	18+99.40	46.23' LT.
D	18+99.39	42.23' LT.

SWALE "A" AND SWALE "B" DETAIL

SCALE: 1" = 20'

1



SWALE "C"
SWALE BOTTOM EL.=1990.10
SWALE BTM AREA PROVIDED=267 S.F.
MINIMUM BERM ELEV.=1990.85

SWALE BOTTOM LOCATION TABLE WELLESLEY AVENUE, STATION AND OFFSET		
POINT	STATION	OFFSET
A	21+19.40	22.50' LT.
B	21+19.40	25.50' LT.
C	22+08.40	25.50' LT.
D	22+08.40	22.50' LT.

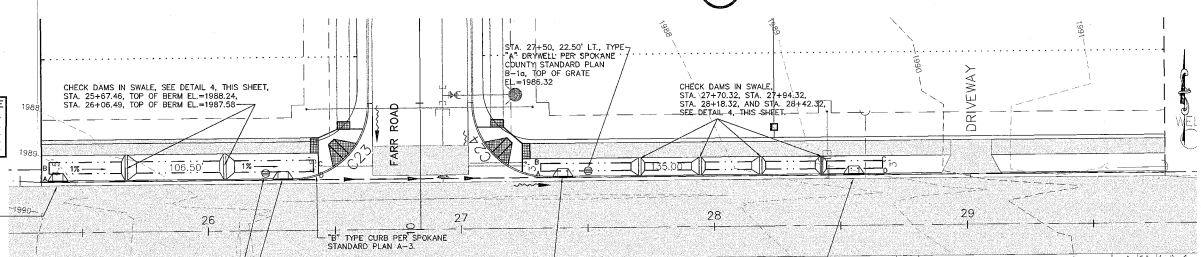
POND "D"
SWALE BOTTOM EL.=1990.10
SWALE BTM AREA PROVIDED=267 S.F.
MINIMUM BERM ELEV.=1990.85

SWALE BOTTOM LOCATION TABLE WELLESLEY AVENUE, STATION AND OFFSET		
POINT	STATION	OFFSET
A	22+33.04	22.50' LT.
B	22+33.05	25.50' LT.
C	23+22.05	25.50' LT.
D	23+22.04	22.50' LT.

SWALE "C" AND SWALE "D" DETAIL

SCALE: 1" = 20'

2



SWALE "E"
SWALE BOTTOM EL.=1986.95
SWALE BTM AREA PROVIDED=446 S.F.
MINIMUM BERM ELEV.=1987.70

SWALE BOTTOM LOCATION TABLE WELLESLEY AVENUE STATION & OFFSET		
POINT	STATION	OFFSET
A	25+36.78	22.50' LT.
B	25+36.79	22.75' LT.
C	26+43.28	22.75' LT.
D	26+43.28	23.25' LT.

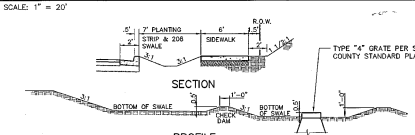
SWALE "E"
SWALE BOTTOM EL.=1985.82
SWALE BTM AREA PROVIDED=390 S.F.
MINIMUM BERM ELEV.=1986.57

SWALE BOTTOM LOCATION TABLE WELLESLEY AVENUE STATION & OFFSET		
POINT	STATION	OFFSET
A	27+31.31	22.50' LT.
B	27+31.31	25.50' LT.
C	28+55.31	25.50' LT.
D	28+55.31	22.50' LT.

SWALE "E" AND SWALE "F" DETAIL

SCALE: 1" = 20'

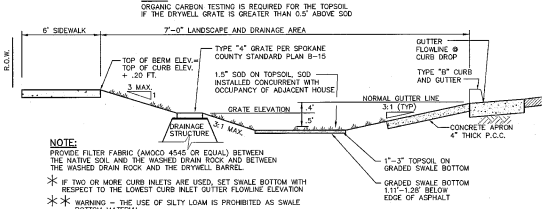
3



CHECK DAM DETAIL

NOT TO SCALE

4



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

NOTE:
PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK AND BETWEEN THE WASHED DRAIN ROCK AND THE DRYWELL BARREL.

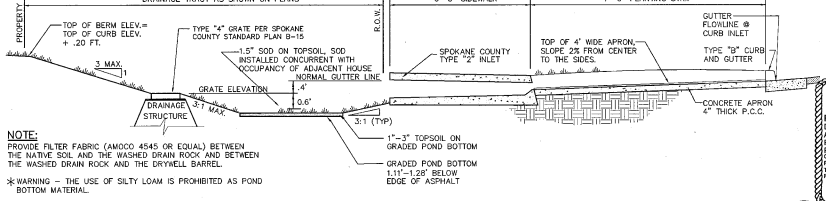
* IF TWO OR MORE CURB INLETS ARE USED, SET SWALE BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION

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

TYPICAL "208" SWALE WITH DRYWELL

NOT TO SCALE

A



NOTE:
PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK AND BETWEEN THE WASHED DRAIN ROCK AND THE DRYWELL BARREL.

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

TYPICAL "208" SWALE – TYPE "1" AND "2" INLET, PLANTING STRIP WITH DRYWELL

NOT TO SCALE

B

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SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1844
DATE ACCEPTED: 04-11-04
ACCEPTANCE EXPIRES: 04-11-06
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

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Fax: (509) 456-0944

DAVID H. RANDALL
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 07/04/02
2/6/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID H. RANDALL, P.E.
WASHINGTON REGISTRATION NO. 29904
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

Date	Description
04/26/01	PRELIMINARY SUBMITTAL
07/23/01	REVISED PER SPOKANE COUNTY ENGINEERS
12/21/01	FINAL SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1844
CLC Job Number: S990126
Drawn By: RJM
Designed By: RJM DHR
Checked By: DHR

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STREET CONSTRUCTION PLANS

FRASER ESTATES
DRAINAGE SWALE DETAILS

SPOKANE COUNTY, WASHINGTON

Brian Mathson for Kinney Matheson Corp its manager 2/11/02
DEVELOPER'S APPROVAL — DATE

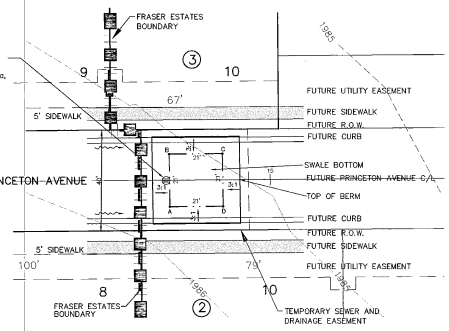
D. Randall for Mike Kinney 2/6/02

Sheet Title
DRAINAGE DETAILS

C1.09
Sheet Number

P-1844 Eng. Road & Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON



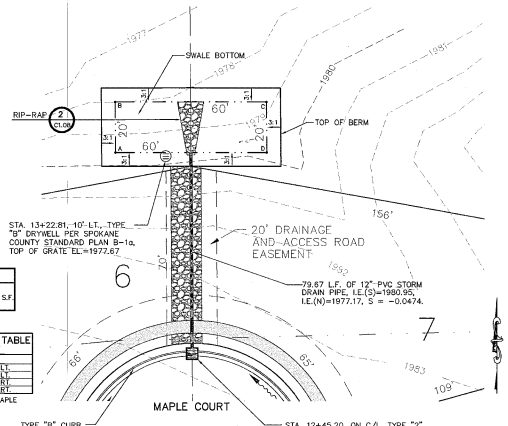
SWALE "H"
SWALE BTM EL.=1984.00
SWALE BTM AREA PROVIDED=441 S.F.
MINIMUM BERM ELEV.=1986.25

SWALE BOTTOM LOCATION TABLE
WELLESLEY AVENUE, STATION AND OFFSET

POINT	STATION	OFFSET
A	14+60.50	10.50' RT.
B	14+60.33	10.50' LT.
C	14+91.33	10.50' LT.
D	14+91.50	10.50' RT.

SWALE "H" DETAIL
SCALE: 1" = 20'

1



SWALE "I"
SWALE BTM EL.=1977.17
SWALE BTM AREA PROVIDED=1,200 S.F.
MINIMUM BERM ELEV.=1979.00

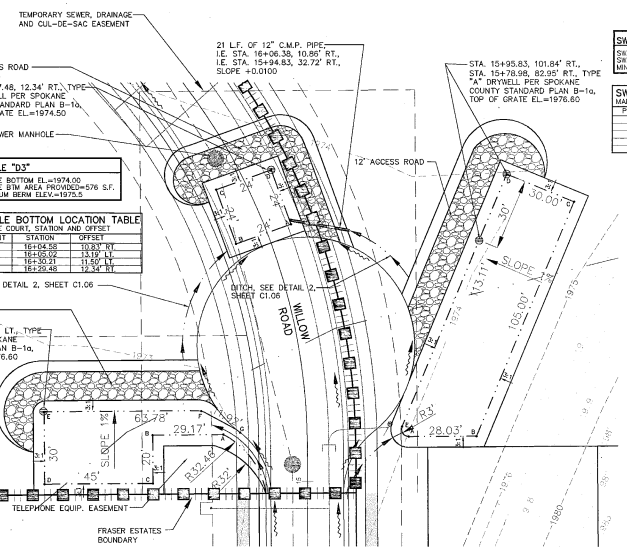
SWALE BOTTOM LOCATION TABLE
MAPLE COURT, STATION AND OFFSET

POINT	STATION	OFFSET
A	13+24.41	30.00' LT.
B	13+44.41	30.00' LT.
C	13+43.99	30.00' RT.
D	13+23.99	30.00' RT.

STATIONS AND OFFSETS ARE FROM MAPLE COURT C/L EXTENDED

SWALE "I" DETAIL
SCALE: 1" = 20'

3



SWALE "D2"
SWALE BTM EL.=1976.10
SWALE BTM AREA PROVIDED=3150 S.F.
MINIMUM BERM ELEV.=1977.6

SWALE BOTTOM LOCATION TABLE
MAPLE COURT, STATION AND OFFSET

POINT	STATION	OFFSET
A	15+17.88	42.53' RT.
B	15+17.83	70.50' RT.
C	15+82.61	124.86' RT.
D	15+95.83	101.84' RT.
E	15+21.50	39.84' RT.

SWALE "D3"
SWALE BOTTOM EL.=1974.00
SWALE BTM AREA PROVIDED=576 S.F.
MINIMUM BERM ELEV.=1975.5

SWALE BOTTOM LOCATION TABLE
MAPLE COURT, STATION AND OFFSET

POINT	STATION	OFFSET
A	16+04.58	10.83' RT.
B	16+05.02	13.19' LT.
C	16+30.31	11.50' LT.
D	16+29.48	12.34' RT.

SWALE "D1"
SWALE BTM EL.=1976.10
SWALE BTM AREA PROVIDED=1725 S.F.
MINIMUM BERM ELEV.=1977.60

SWALE BOTTOM LOCATION TABLE
MAPLE COURT, STATION AND OFFSET

POINT	STATION	OFFSET
A	15+20.35	34.01' LT.
B	15+21.08	63.17' LT.
C	14+99.23	63.36' LT.
D	14+99.50	106.23' LT.
E	15+40.49	107.48' LT.
F	15+32.69	43.93' LT.
G	15+21.11	27.12' LT.

DITCH BOTOM, OFFSET, ELEV.
WILLOW STREET

STATION	OFFSET	SIDE	ELEVATION
14+95.10	15.83'	LT	1977.93
15+12.87	22.95'	LT	1977.02
15+25.29	38.72'	LT	1976.10
14+95.10	15.83'	RT	1977.93
15+09.68	25.42'	RT	1977.02
15+19.33	39.87'	RT	1976.10
15+59.09	47.27'	LT	1976.50
15+90.36	35.67'	LT	1975.25
16+03.42	17.83'	LT	1974.00
15+72.98	50.93'	RT	1976.50
15+84.77	43.58'	RT	1975.40
15+94.83	32.72'	RT	1974.30

SWALES "D1", "D2", AND "D3"
SCALE: 1" = 20'

2

NOTE
ALL DRYWELLS CALLED OUT ON THIS SHEET SHALL HAVE GRATE TYPE "A" PER SPOKANE COUNTY STANDARD PLANS B-4

COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

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DAVID N. RANDALL
STATE OF WASHINGTON
22984
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL P.E. WASHINGTON REGISTRATION NO. 22984 FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

Date	Description
04/25/01	PRELIMINARY SUBMITTAL
07/23/01	REVISED PER SPOKANE COUNTY ENGINEERS
09/05/01	SECOND SUBMITTAL
01/03/02	FINAL SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P1864
CLC Job Number: S990126
Drawn By: RLM
Designed By: SR DNR
Checked By: DNR

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STREET CONSTRUCTION PLANS
FRASER ESTATES
DRAINAGE DETAILS
SPOKANE COUNTY, WASHINGTON

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1864
DATE ACCEPTED: 04-11-02
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PROJECT LANE MILES PUBLIC: 0.27
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

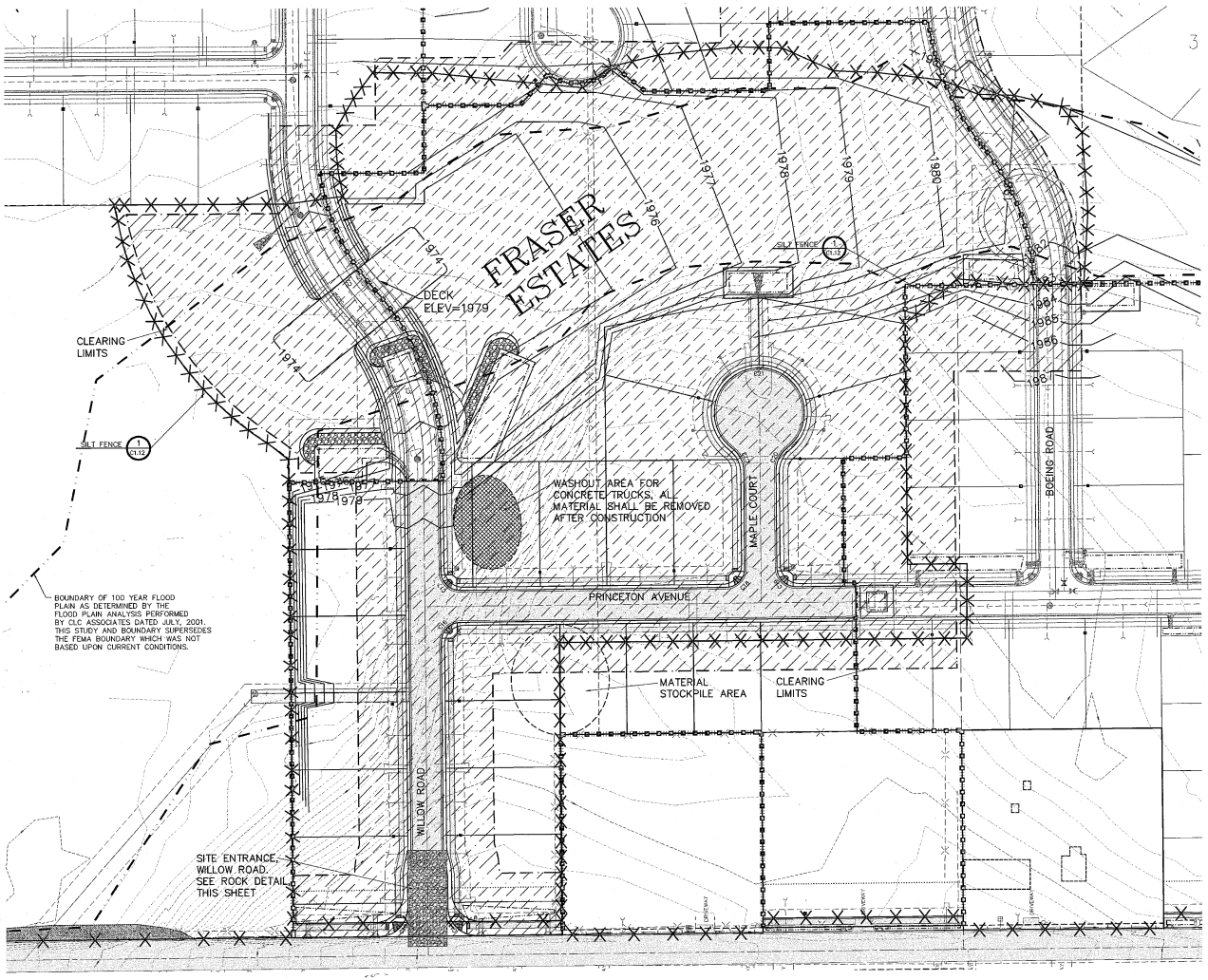
for Kinney Matheson Corp its manager 2/14/02
For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE

Sheet Title
DRAINAGE DETAILS

C1.10
Sheet Number

P1864 Eng. Road & Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON



COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

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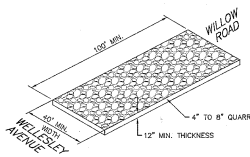
DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED PROFESSIONAL ENGINEER
2/4/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL, P.E. WASHINGTON REGISTRATION NO. 26984. FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

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



ROCK CONSTRUCTION ENTRY (1)
NOT TO SCALE

Date	Description
06/18/01	PRELIMINARY SUBMITTAL
07/23/01	REVISED PER SPOKANE COUNTY ENGINEERS
09/10/01	SECOND SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: 5990126
Drawn By: RLM
Designed By: RLM DNR
Checked By: DNR

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STREET CONSTRUCTION PLANS
FRASER ESTATES
EROSION AND SEDIMENTATION CONTROL
SPOKANE COUNTY, WASHINGTON

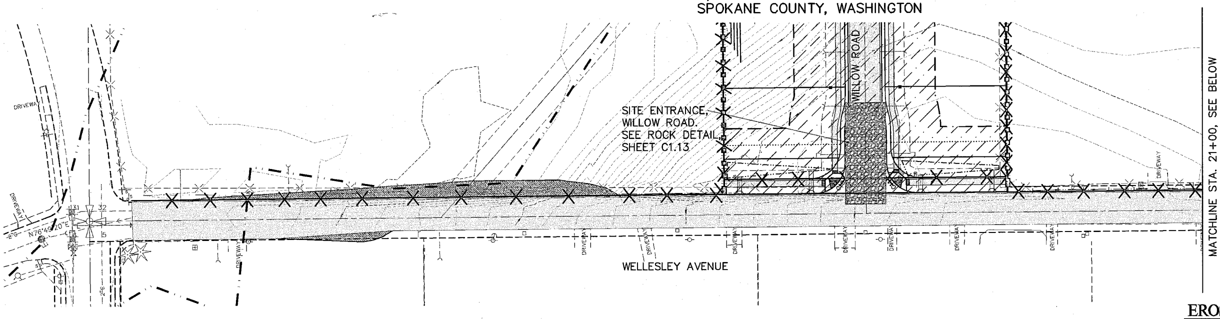
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1864
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR 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

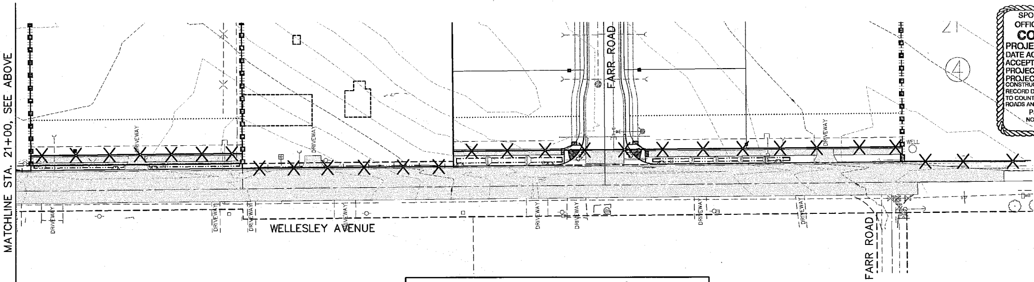
Brian Matthews for Tommy Matheson
David Randall for Mike Kinney
DEVELOPER'S APPROVAL
2/4/02 DATE

Sheet Title: EROSION AND SEDIMENTATION CONTROL
Sheet Number: C1.13

R-1864 Eng. Road & Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON





SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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PROJECT #: P1864
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COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD–NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21. ELEVATION=1956.64

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

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

LEGEND

—X—— X ——X— SILT FENCE

Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 W. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 458–6840
Fax: (509) 458–6844

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL, P.E.
WASHINGTON REGISTRATION NO. 26984
FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

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Spokane County No. P–1864
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EROSION & SEDIMENT CONTROL

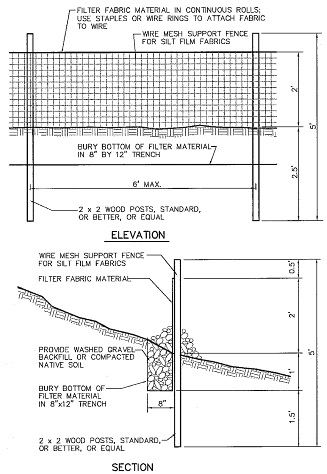
GENERAL NOTES AND INFORMATION

1. AN EROSION/SEDIMENT CONTROL (S.E.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE E.S.C. PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE E.S.C. FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
2. APPROVAL OF THE E.S.C. PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE E.S.C. PLAN.
3. THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE E.S.C. MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT–LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
4. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS, CATCH BASINS AND INLETS UNTIL SUCH TIME THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
5. THE SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
7. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA.
8. PROPERTY OWNER: KINNEY/MATTESON, INC. (509)922–5557
PERMIT APPLICANT: KINNEY/MATTESON, INC. (509)922–5557
CONTACT PERSON ON SITE: KINNEY/MATTESON, INC. (509)922–5557
9. PROJECT LOCATION: IN THE SPOKANE VALLEY, NORTH OF WELLESLEY AVENUE AND EAST OF ARGONNE ROAD, IN SECTION 32, TOWNSHIP 26 N., RANGE 44 E.W.M.
10. PROJECT DESCRIPTION: FRASER ESTATES IS A RESIDENTIAL SUBDIVISION CONSISTING OF 24 LOTS AND WILL REQUIRE CONSTRUCTION OF SEWER, WATER, ROADS, STORM DRAINAGE, GAS, AND ELECTRICAL FACILITIES. THE IMPROVEMENTS CONSIST OF APPROXIMATELY 4.300 LINEAR FEET OF NEW PUBLIC STREETS AND CURBS, WITH ASSOCIATED STORM DRAINAGE.
11. DESCRIPTION OF E.S.C. MEASURES: USE OF SILT FENCES AND ROCK CONSTRUCTION ENTRANCES. ALL E.S.C. MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER YARDS ARE LANDSCAPED.
12. EXISTING VEGETATION: FIELD GRASS AND PONDEROSA PINES.
13. PLAN PREPARATION DATE: APRIL 10, 2001.
14. SOILS: ON SITE SOILS INCLUDE GARRISON GRAVELLY LOAM (GgA), GARRISON GRAVELLY LOAM (GgB) SPOKANE COUNTY GUIDELINES INDICATES THESE TO BE TYPE "B" SOILS.
15. STABLIZATION OF DENUDED AREAS:
ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30–45 DAYS SHALL BE SEEDED WITH A FAST STARTING NATIVE DRYLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUAL, AT A RATE OF 60 lbs/ACRE.
16. CONTROL OF POLLUTANTS:
ANY SPILLS WILL BE HANDLED ACCORDING TO D.O.E. AND D.O.H. GUIDELINES.

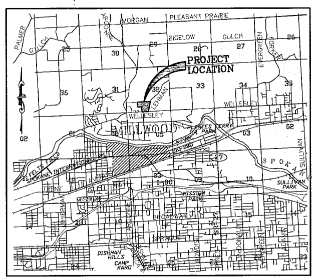
MAINTENANCE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF THE TEMPORARY E.S.C. MEASURES.
2. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF–PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF–PRODUCING RAINFALL. DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE E.S.C. STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. ALL TEMPORARY AND PERMANENT E.S.C. PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
7. ALL TEMPORARY E.S.C. MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING SWEEPING AND WATER TO WASH THE CONSTRUCTION DEBRIS FROM THE STREET.
9. ON–SITE DUST CONTROL SHALL BE ACCOMPLISHED BY USING WATER. APPLICATIONS OF WATER MAY BE REQUIRED SEVERAL TIMES PER DAY DURING CONSTRUCTION ACTIVITY.

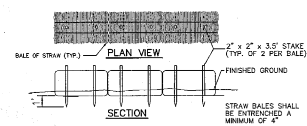
For Kinney Matteson Corp its manager 2/14/02
For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE



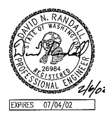
SILT FENCE DETAIL (1)
NOT TO SCALE



VICINITY MAP



STRAW BALE DETAIL (2)
NOT TO SCALE



2/6/02
EXPIRES 07/04/02

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

DAVID N. RANDALL, P.E.

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

LEGAL DESCRIPTION

THAT portion of the South Half of the Southwest Quarter of Section 32, T.26 N., R.44 E., W.M. in Spokane County, State of Washington described as follows:

Beginning at the intersection of the North line of said South Half of the Southwest Quarter and the West line of said Section 32; thence N.89°48'22"E. along said North line a distance of 1452.00 feet to the northeasterly corner of a parcel of land as described in a Record of Survey recorded in Book 27 of Surveys, Page 63; thence southerly along the boundary of said parcel the following three (3) courses:

1. S.00°31'58"E. a distance of 628.95 feet;
2. N.89°32'20"E. a distance 520.00 feet;
3. S.00°31'58"E. a distance of 673.00 feet to the north right of way line of Wellesley Avenue ; thence along said north right of way line a distance of 444.33 feet; thence N.00°23'58"W. a distance of 208.70 feet; thence S.89°32'20"W. a distance of 208.70 feet to the Northeast corner of Short Plat No. 83–270 as filed in Book 3 of Short Plats, Page 3 in the Spokane County Auditor's Office; thence along the boundary of said Short Plat the following five (5) courses:

1. S.00°23'58"E. a distance of 203.70 feet;
2. S.89°32'20"W. a distance of 208.70 feet;
3. N.00°23'58"W. a distance of 203.70 feet;
4. S.89°32'20"W. a distance of 208.70 feet;
5. S.00°23'58"E. a distance of 208.70 feet to the North right of way line of Wellesley

Avenue; thence S.89°32'20"W. a distance of 280.00 feet; thence N.00°23'58"W. a distance of 499.32 feet to the beginning of a non–tangent curve concave to the southwest having a radius of 330.00 feet (from which a radial line bears S.39°07'12"W.); thence northwesterly along said curve through a central angle of 05°15'51" an arc distance of 30.32 feet to the beginning of a reverse curve concave to the northeast having a radius of 360.00 feet; thence northerly along said curve through a central angle of 47°57'42" an arc distance of 301.35 feet; thence S.89°48'22"W. parallel with the North line of the South Half of the Southwest Quarter of said Section 32, a distance of 447.55 feet to the West line of said Section 32; thence N.00°16'02"W. along said West line a distance of 540.04 feet to the Point of Beginning;

Containing 39.23 Acres, more or less

STREET CONSTRUCTION PLANS
FRASER ESTATES
EROSION AND SEDIMENTION CONTROL
SPOKANE COUNTY, WASHINGTON

Sheet Title
EROSION AND SEDIMENTATION CONTROL

C1.12
Sheet Number

P-1864 Eng Road & Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON

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

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

CLC Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 N. 7th Avenue, Suite 200
Ephrata, WA 98823
Phone: (509) 754-4640
Fax: (509) 754-4641

DAVID N. RANDALL
STATE OF WASHINGTON
29984
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL, P.E.
WASHINGTON REGISTRATION NO. 29984
FOR AND ON BEHALF OF
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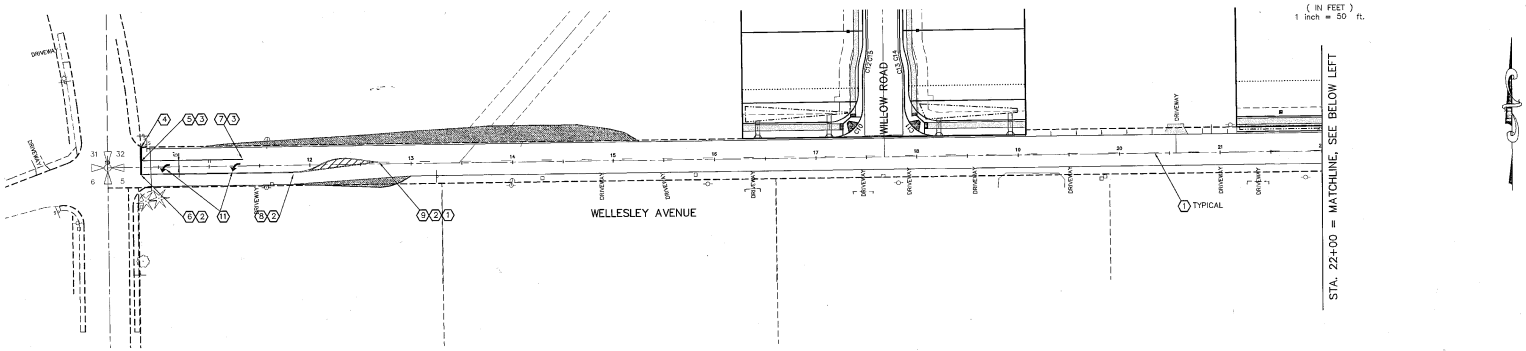

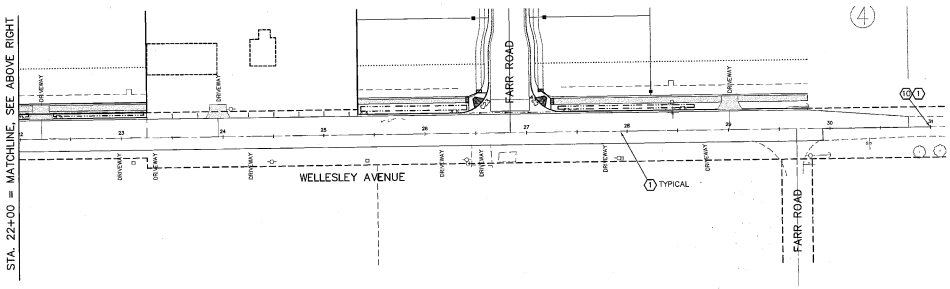

CHANNELIZATION NOTES

1. LANE STRIPING — 4" YELLOW SKIP STRIPE (TYP.); 10' 30' 10' 30' 10'
2. DOUBLE YELLOW STRIPE — 4" SPACE; 4" SOLID YELLOW STRIPE; 4" YELLOW YELLOW STRIPE
3. GORE STRIP — 8" SOLID WHITE STRIPE
4. STA. 10+32.92, PROVIDE AND INSTALL 2' WIDE WHITE STOP BAR PER SPOKANE COUNTY STANDARDS.
5. STA. 10+32.92, 6.50' LT., BEGIN 8" WHITE GORE STRIPING.
6. STA. 10+32.92, 7.30' RT., BEGIN 4" DOUBLE YELLOW STRIPING.
7. STA. 11+33.25, 6.50' LT., END 8" WHITE GORE STRIPING.
8. STA. 11+83.15, 6.65' RT., END 4" DOUBLE YELLOW STRIPING AND BEGIN 4" DOUBLE YELLOW ISLAND STRIPING WITH 45' x 8" YELLOW STRIPING SPACED AT 5' ON CENTER.
9. STA. 12+68.65, 1.95' LT., END ISLAND STRIPING AND BEGIN 4" YELLOW SKIP STRIPING.
10. STA. 31+00.00, AT C/L, END 4" YELLOW SKIP STRIPING AND MATCH TO EXISTING.
11. STA. 10+58 AND 11+25, PROVIDE AND INSTALL LEFT TURN ARROWS PER SPOKANE COUNTY STANDARDS.

Date	Description
04/23/01	PRELIMINARY SUBMITTAL
01/25/02	RESPONSE TO SPOKANE COUNTY ENGINEERS
01/03/02	SECOND SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S950126
Drawn By: RLM
Designed By: RLM
Checked By: DNR

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STREET CONSTRUCTION PLANS
FRASER ESTATES
CHANNELIZATION PLAN
SPOKANE COUNTY, WASHINGTON

Sheet Title
CHANNELIZATION PLAN

C1.11
Sheet Number

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1964
DATE ACCEPTED: 04-11-02
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PROJECT LANE MILES PUBLIC: 0.17
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NOTE: PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

Brian Matthews for Kinney-Matthews Corp its manager 2/14/02
D. J. Randall For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE

COUNTY DATUM
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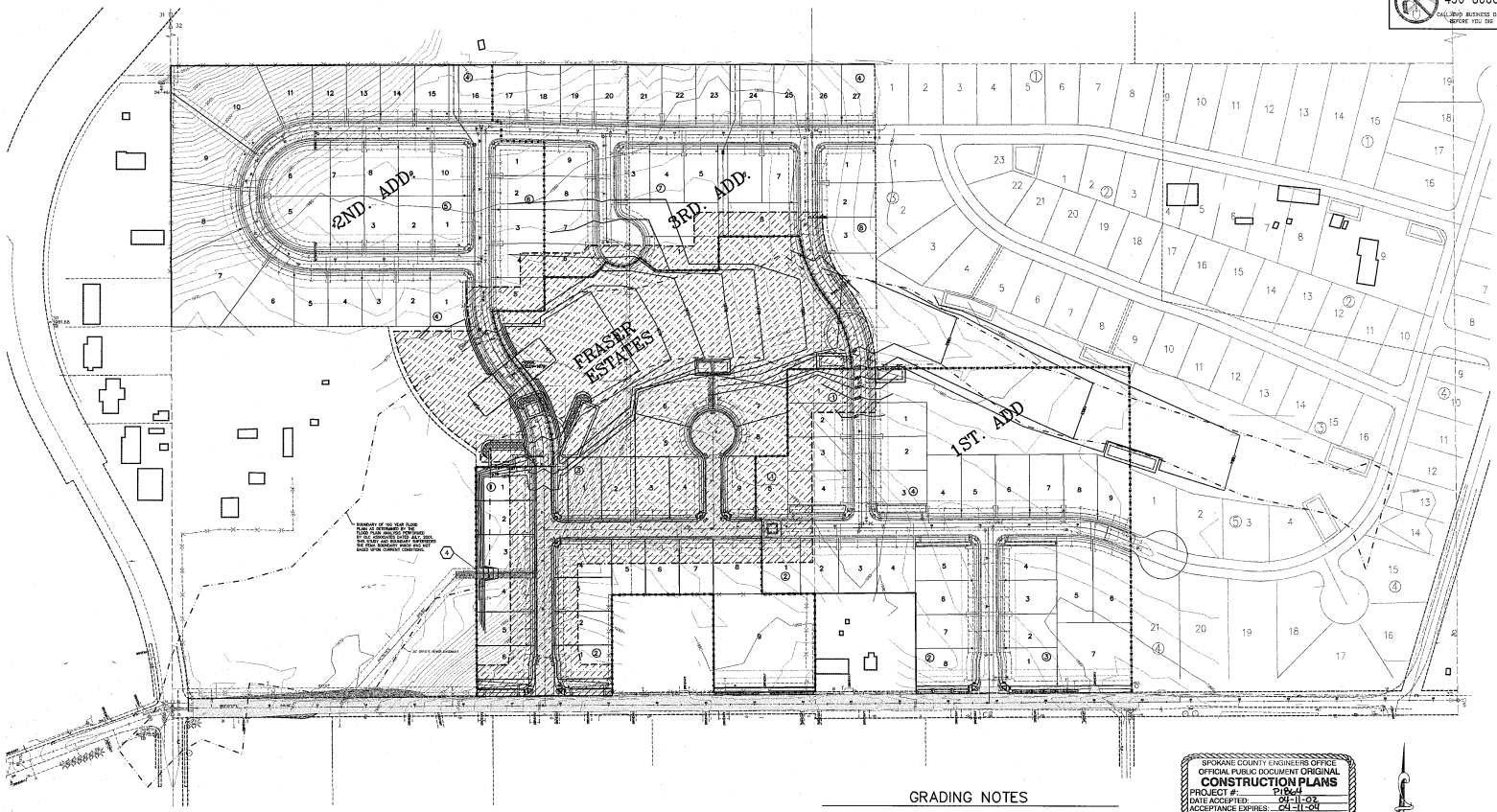
P-1864 Eng Road & Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON



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01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
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STREET AND DRAINAGE CONSTRUCTION PLANS
FRASER ESTATES
GRADING PLAN
SPOKANE COUNTY, WASHINGTON

Sheet Title
GRADING PLAN
C1.03
Sheet Number

GRADING NOTES

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

   10% ELKA PERENNIAL RYE
   20% DURAN HARD FESCUE
   45% COVAR SHEEP / FESCUE
   15% REUBENS CANADIAN BLUEGRASS

   GRASS SEED: 90 LBS. / ACRE

   FERTILIZER: 16-16-16- TIMED RELEASE AT 300 LBS. / ACRE

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

3. THE BANK AREAS WITH SLOPES OF 2:1 OR GREATER SHALL BE PLANTED WITH NATURALLY OCCURRING SHRUBS TO PREVENT EROSION DURING A STORM EVENT.

4. GRADING OF THE ACCESS ROAD SHALL PROVIDE FOR ROADWAY SLOPES OF 10:1 MAXIMUM AT THE LOCATION SHOWN.

SPOKANE COUNTY ENGINEERS OFFICE
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For Kinney-Matheson Corp its manager 2/14/02
D. J. Randall For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE

P-1864 Eng. Road & Drainage

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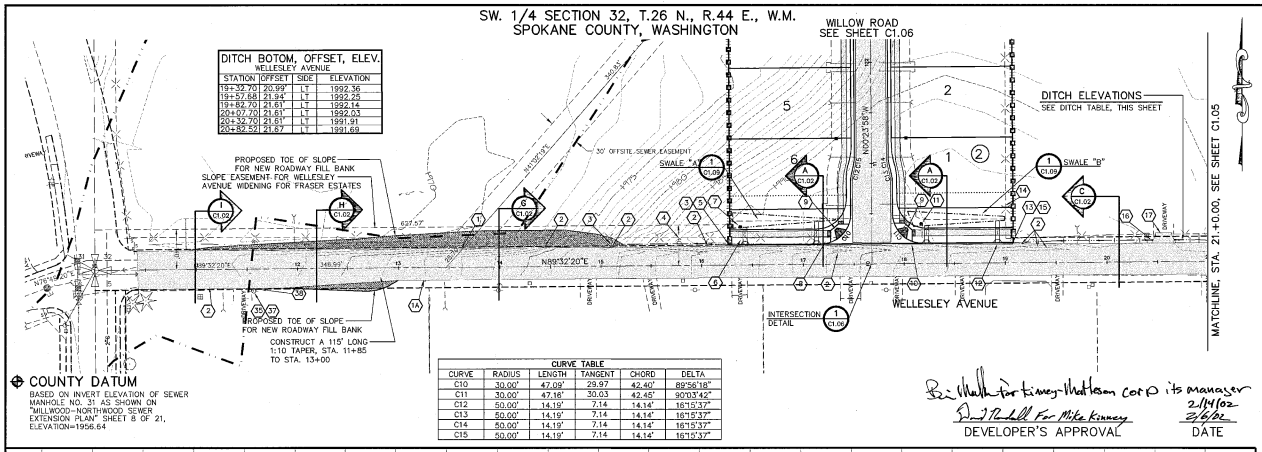
SPOKANE COUNTY, WASHINGTON



DITCH BOTOM, OFFSET, ELEV. WELLESLEY AVENUE			
STATION	OFFSET	SIDE	ELEVATION
19+32.70	20.99'	LT	1992.36
19+57.68	21.94'	LT	1992.25
19+82.70	21.61'	LT	1992.14
20+07.70	21.61'	LT	1992.03
20+32.70	21.61'	LT	1991.91
20+82.52	21.87	LT	1991.69

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C10	30.00'	47.09'	29.97	42.40'	89°56'18"
C11	30.00'	47.16'	30.03	42.45'	90°03'42"
C12	50.00'	14.19'	7.14	14.14'	16°15'37"
C13	50.00'	14.19'	7.14	14.14'	16°15'37"
C14	50.00'	14.19'	7.14	14.14'	16°15'37"
C15	50.00'	14.19'	7.14	14.14'	16°15'37"

COUNTY DATUM

BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

Bri Walth for Kinney-Mathson Corp its manager 2/14/02

Paul Randall For Mike Kinney 2/6/02

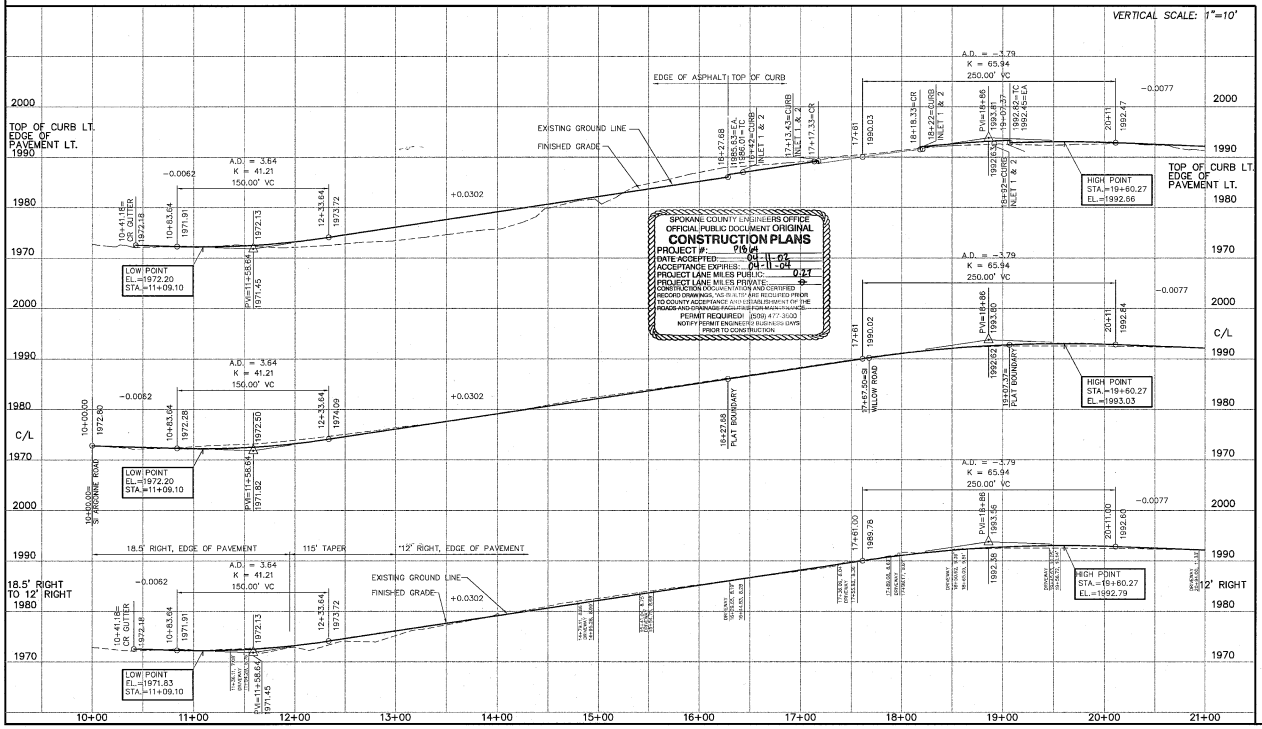
DEVELOPER'S APPROVAL — DATE

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

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

CONSTRUCTION NOTES

1. STA. 10+00.00, BEGIN CONSTRUCTION.
1A. REMOVE AND RELOCATE EXISTING SIGN PER INSPECTING ENGINEER.
2. REMOVE AND RELOCATE EXISTING MAIL BOX PER INSPECTING ENGINEER.
3. STA. 15+10 ± TO STA. 16+27.68, LT., CONSTRUCT A 1' DEEP DRAINAGE DITCH, I.E.(W)=1976.23, I.E.(E)=1985.51 = FLOWLINE OF "B" TYPE CURB.
4. STA. 16+27.69 TO STA. 17+81.66, LT., REMOVE EXISTING FENCE AS REQUIRED.
5. STA. 16+27.68, LT., PROVIDE AND INSTALL "B" TYPE CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3, AND BEGIN 6" SIDEWALK.
6. STA. 16+42, LT., PROVIDE AND INSTALL CURB INLETS TYPE "1" AND "2" PER SPOKANE COUNTY STANDARD PLANS B-8 AND B-9, SEE SECTION "B", C1.09.
7. STA. 16+38.14, 37.64' LT., PROVIDE AND INSTALL TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a, TOP OF GRATE EL.=1985.53.
8. STA. 17+13.43, LT., PROVIDE AND INSTALL CURB INLETS TYPE "1" AND "2" PER SPOKANE COUNTY STANDARD PLANS B-8 AND B-9, SEE SECTION "B", C1.09.
9. PROVIDE AND INSTALL CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5.
10. STA. 18+22.39, LT., PROVIDE AND INSTALL CURB INLETS TYPE "1" AND "2" PER SPOKANE COUNTY STANDARD PLANS B-8 AND B-9, SEE SECTION "B", C1.09.
11. STA. 18+17.25, 39.50' LT., PROVIDE AND INSTALL TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a, TOP OF GRATE EL.=1990.40.
12. STA. 18+92, LT., PROVIDE AND INSTALL CURB INLETS TYPE "1" AND "2" PER SPOKANE COUNTY STANDARD PLANS B-8 AND B-9, SEE SECTION "B", C1.09.
13. STA. 19+07.37, LT., END "B" TYPE CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3, AND END 6' SIDEWALK.
14. STA. 19+00.41, LT., REMOVE A PORTION OF EXISTING FENCE PER INSPECTING ENGINEER.
15. STA. 19+07.37 TO STA. 21+16.39, 21.50' LT., CONSTRUCT A 1' DEEP DRAINAGE DITCH, I.E.(W)=1992.33, I.E.(E)=1991.54, S=0.0038.
16. STA. 20+43.84, 21.50' LT., PROVIDE AND INSTALL 24.67 L.F. OF 8" C.M.P. CULVERT, I.E.(W)=1991.96, I.E.(E)=1991.77, S=0.0077 MINIMUM COVER OVER PIPE SHALL BE 1'-0".
17. STA. 20+56 ±, LT., CONSTRUCT NEW DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-8a. REMOVE AND REPLACE EXISTING FENCE AS REQUIRED.
18. STA. 21+16.39, LT., PROVIDE AND INSTALL "B" TYPE CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3, AND 6' SIDEWALK. SEE NOTE 15 FOR DITCH. REMOVE AND REPLACE EXISTING FENCE AS REQUIRED.
19. STA. 22+20 ±, LT., CONSTRUCT NEW DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-8a. REMOVE AND REPLACE EXISTING FENCE AS REQUIRED.
20. STA. 22+38 ±, LT., PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8, SEE DETAIL 2, C1.02.
21. STA. 22+48, 24.00' LT., PROVIDE AND INSTALL TYPE "B" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a, TOP OF GRATE EL.=1990.60.
22. STA. 23+25.26, LT., END "B" TYPE CURB PER SPOKANE COUNTY STANDARD PLAN A-3, AND END 6' SIDEWALK.
23. STA. 23+25.26, LT., CONSTRUCT 1' DEEP DRAINAGE DITCH, I.E.(W)=1991.46, FLOWLINE OF "B" TYPE CURB, TO STA. 25+33.78, LT. I.E.(E)=1989.00 AT "B" TYPE CURB.
24. STA. 23+95 ±, LT., CONSTRUCT NEW DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-8a.
25. STA. 23+82.58, 21.50' LT., PROVIDE AND INSTALL 24.67 L.F. OF 8" C.M.P. CULVERT, I.E.(W)=1991.18, I.E.(E)=1991.06, S=0.0058 MINIMUM COVER OVER PIPE SHALL BE 1'-0".
26. STA. 25+33.78, LT., PROVIDE AND INSTALL "B" TYPE CURB PER SPOKANE COUNTY STANDARD PLAN A-3, AND 6' SIDEWALK.
27. STA. 25+40, LT., PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8, SEE DETAIL 2, C1.02.
28. STA. 26+22.79, 22.50' LT., PROVIDE AND INSTALL TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a, TOP OF GRATE EL.=1987.45.
29. STA. 26+29.63, LT., PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8, SEE DETAIL 2, C1.02.
30. STA. 27+40.32, LT., PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8, SEE DETAIL 2, C1.02.
31. STA. 27+50, 22.50' LT., PROVIDE AND INSTALL TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a, TOP OF GRATE EL.=1986.32.
32. STA. 28+43 ±, LT., REMOVE AND RELOCATE EXISTING SIGNS (2), AND (1) TELEPHONE RISER BOX PER QWEST.
33. STA. 28+55.32, LT., PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8, SEE DETAIL 2, C1.02.
34. STA. 29+00, LT., CONSTRUCT NEW DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-8a.
35. STA. 29+79.21, LT., REMOVE AND RELOCATE EXISTING GUY ANCHOR PER AVISTA UTILITIES.
36. STA. 29+78.09, LT., END TYPE "B" CURB AND 6' SIDEWALK AND BEGIN 100' TAPER TO EXISTING ASPHALT AND MATCH TO EXISTING.
37. STA. 11+56, RT., REMOVE AND RELOCATE EXISTING GUY ANCHOR AND POWER POLE PER AVISTA UTILITIES.
38. STA. 11+61, RT., REMOVE AND RELOCATE EXISTING TELEPHONE RISER BOX PER QWEST.
39. STA. 28+55, LT., PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8, SEE DETAIL 2, C1.02.
40. STA. 22+08.40, 24.00' LT., PROVIDE AND INSTALL 24.67 L.F. OF 8" C.M.P. CULVERT, I.E.(W)=1990.73, I.E.(E)=1990.61, S=0.0050 MINIMUM COVER OVER PIPE SHALL BE 1'-0".



Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 N. 7th Avenue, Suite 200
Spokane, WA 99201
Ph: (509) 326-4840
Fx: (509) 455-4844

RICHARD N. RANDALL — STATE OF WASHINGTON — 26894 — REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL, P.E. WASHINGTON REGISTRATION NO. 26894 FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

Date	Description
05/03/01	PRELIMINARY SUBMITTAL
07/23/01	REVISED PER SPOKANE COUNTY ENGINEER'S
12/20/01	REVISED PER SPOKANE COUNTY ENGINEER'S COMMENTS ON CLC CUTTY SHEET
01/02/02	PER SPOKANE COUNTY
01/25/02	FINAL SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: RJM
Designed By: DJR
Checked By: DJR

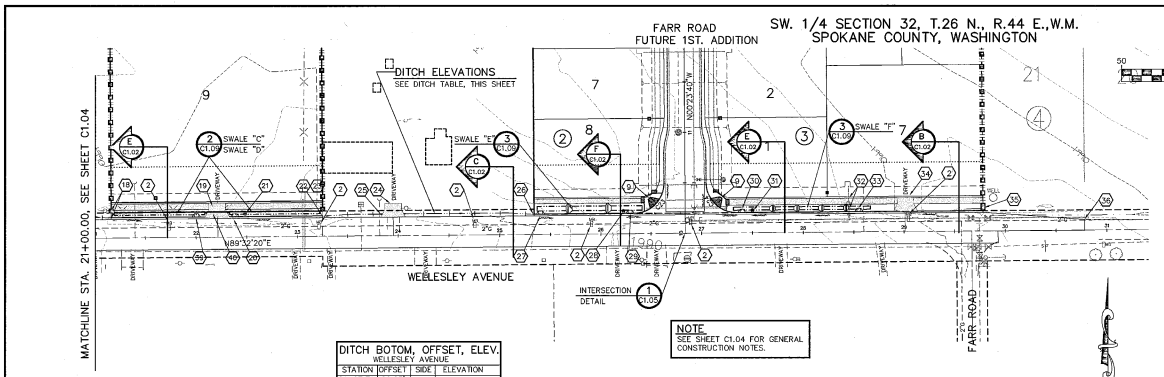
THESE PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROVIDED BY OWNER (AN ENGINEER) AND OTHER INTERESTED PARTIES REGARDING CONTRACT. THEY MAY NOT BE REPRODUCED, OR PROVIDED TO OTHERS, WITHOUT THE WRITTEN CONSENT OF CLC ASSOCIATES, INC. (AN AFFILIATE OF COLEMAN LAND GROUP, INC.)

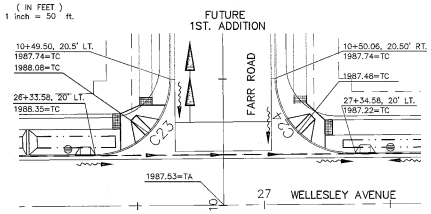
STREET CONSTRUCTION PLANS
FRASER ESTATES
WELLESLEY AVENUE
STA. 10+00.00 TO STA. 21+00.00
SPOKANE COUNTY, WASHINGTON

Sheet Title
WELLESLEY AVENUE PLAN AND PROFILE

C1.04
Sheet Number

P-1864 Eng. Bond Drainage





INTERSECTION DETAIL (1)

SCALE: 1" = 20'

NOTE
SEE SHEET C1.04 FOR GENERAL CONSTRUCTION NOTES.

DITCH BOTOM, OFFSET, ELEV.
WELLESLEY AVENUE

STATION	OFFSET	SIDE	ELEVATION
21+07.71	20.65'	LT	1991.58
23+50.51	21.61'	LT	1991.45
23+75.54	21.61'	LT	1991.30
24+25.55	21.61'	LT	1991.16
24+50.55	21.61'	LT	1990.95
24+75.55	21.61'	LT	1990.59
25+00.55	21.61'	LT	1990.07
25+25.55	20.62'	LT	1989.90

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C23	30.00'	47.09'	29.97	42.40'	89°56'18"
C24	30.00'	47.18'	30.03	42.45'	90°03'42"

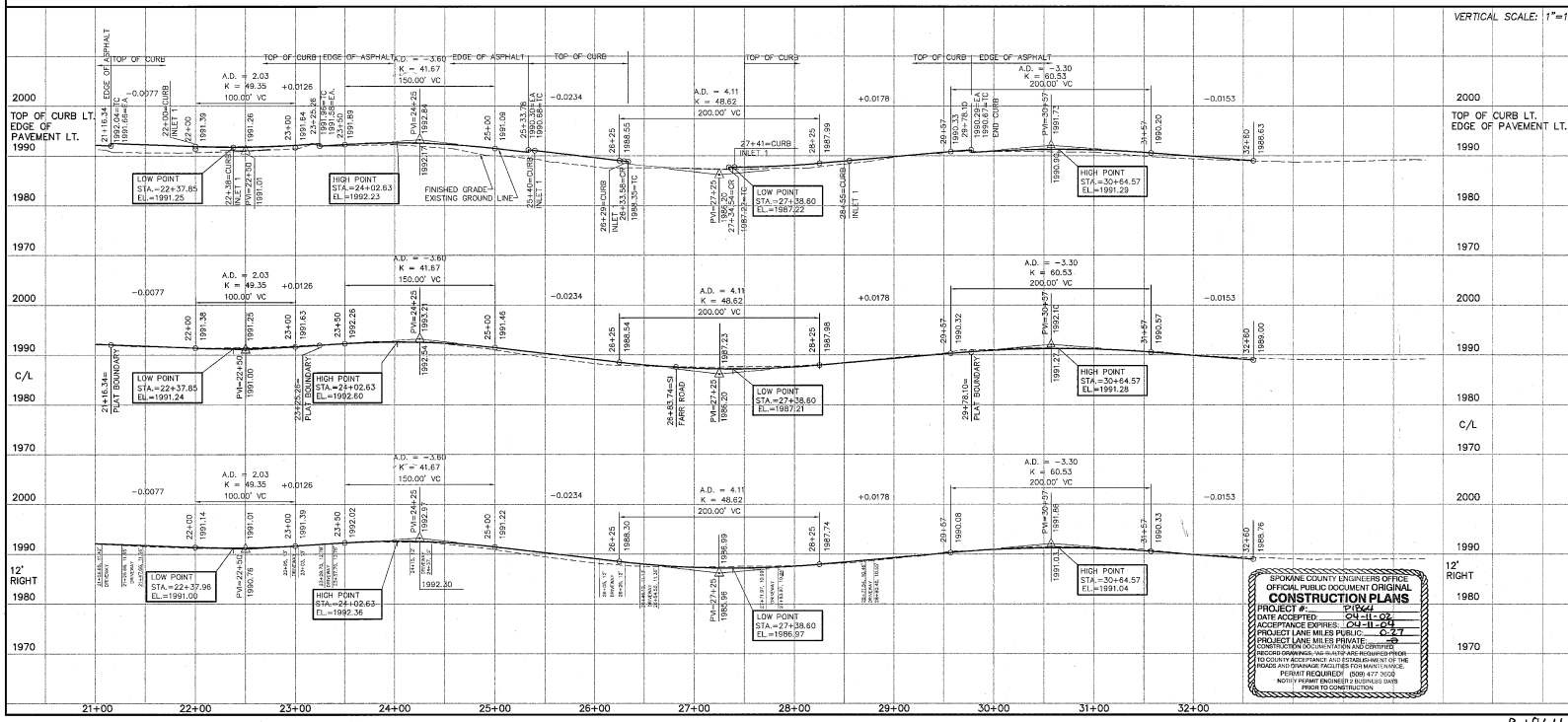
COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

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

K Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 W. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 456-0840
Fax: (509) 456-0844

DAVID N. RANDALL
STATE OF WASHINGTON
26884
REGISTERED PROFESSIONAL ENGINEER
7/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL, P.E.
WASHINGTON REGISTRATION NO. 26884
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 97066
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477 3600
NOTIify PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

Date	Description
05/03/01	ORIGINAL PREPARATION
07/23/01	REVISED PER SPOKANE COUNTY ENGINEERS
09/20/01	REVISED PER CITY COMMENTS ON SOUTH SIDE
	PER SPOKANE COUNTY
01/03/02	SECOND SUBMITTAL
01/30/02	FINAL SUBMITTAL
	. . . . .

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: RLM
Designed By: DNR
Checked By: DNR

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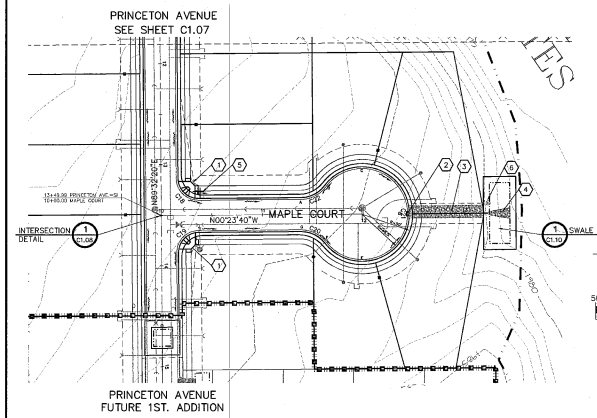
STREET CONSTRUCTION PLANS
FRASER ESTATES
WELLESLEY AVENUE
STA. 21+00.00 TO STA. 32+60.00
SPOKANE COUNTY, WASHINGTON

Sheet Title
WELLESLEY AVENUE PLAN AND PROFILE

C1.05
Sheet Number

P-1864 Eng Prod & Drainage

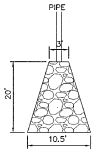
SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

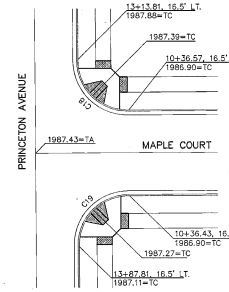
1. PROVIDE AND INSTALL CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5.
2. PROVIDE AND INSTALL CONCRETE INLET TYPE "2", METAL FRAME TYPE "1", GRATE TYPE "3" PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-14, TOP OF GRATE EL.=1982.98.
3. PROVIDE AND INSTALL 79.67 L.F. OF 12" PVC STORM DRAIN PIPE.
4. PROVIDE AND INSTALL RIP-RAP PER DETAIL 2 THIS SHEET.
5. PROVIDE AND INSTALL STOP SIGN AND STREET SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
6. PROVIDE AND INSTALL TYPE "B" DRYWELL PER SPOKANE COUNTY STANDARD PLAN B-1a.

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



NOTE: PROVIDE A GEOTEXTILE FABRIC UNDER EACH RIP-RAP PAD. FABRIC SHALL BE NORTH AMERICAN GREEN-P300 FLEXIBLE LINING FABRIC.

TYPICAL RIP-RAP PAD (2)
NOT TO SCALE

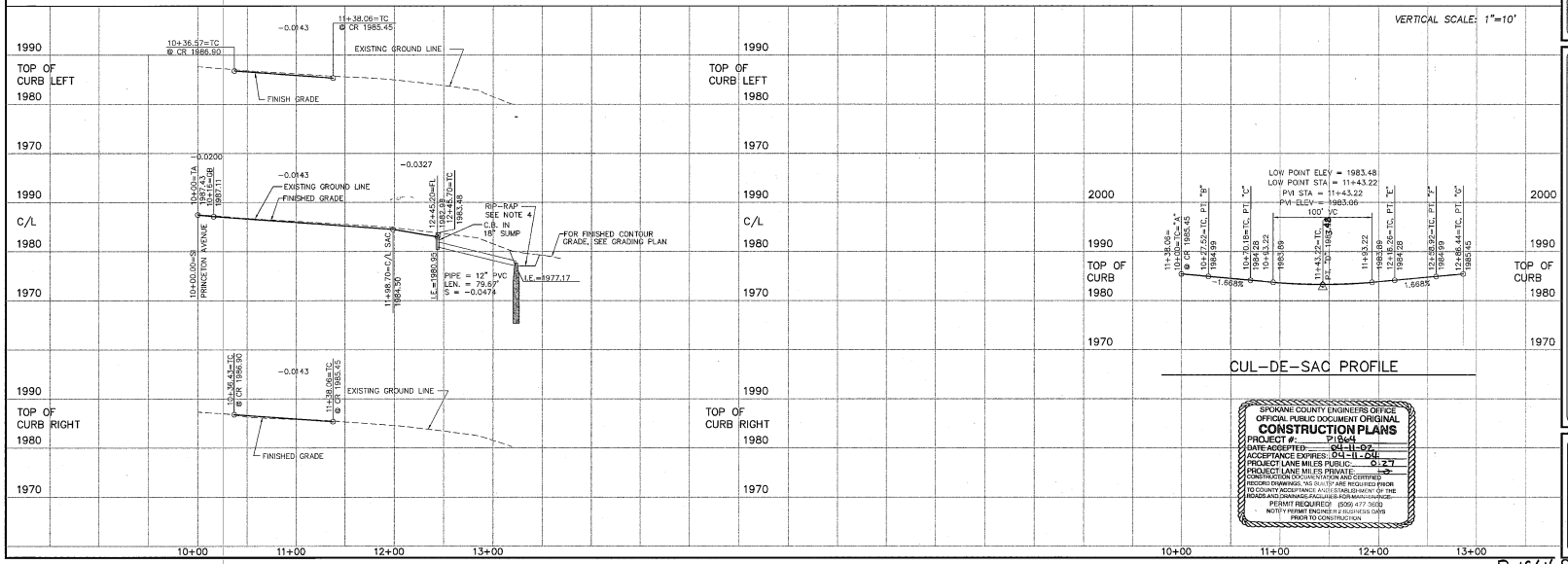


INTERSECTION DETAIL (1)
SCALE: 1" = 20'

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C18	20.00'	31.39'	19.98	28.27'	89°56'00"
C19	20.00'	31.44'	20.02	28.30'	90°04'00"
C20	30.00'	27.52'	14.82	26.57'	52°33'59"
C21	46.50'	231.41'	35.60	56.53'	285°07'57"
C22	30.00'	27.52'	14.82	26.57'	52°33'59"

COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

Bill Mallon for Kinney Mattson Corp its Manager 2/14/02
D. Mitchell For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1844
DATE ADOPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

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

Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 N. 7th Avenue, Suite 200
Spokane, WA 99201
Phone: (509) 455-8960
Fax: (509) 455-5964

DAVID N. RANDALL
STATE OF WASHINGTON
29684
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL, P.E.
WASHINGTON REGISTRATION NO. 29684
FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

Date	Description
04/26/01	PRELIMINARY SUBMITTAL
06/05/01	REVISED PER WORK WITH SPOKANE COUNTY ENGINEERS
09/27/01	REVISED PER WORK WITH SPOKANE COUNTY ENGINEERS
01/03/02	SECOND SUBMITTAL
01/29/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: RLM
Designed By: DNR
Checked By: DNR

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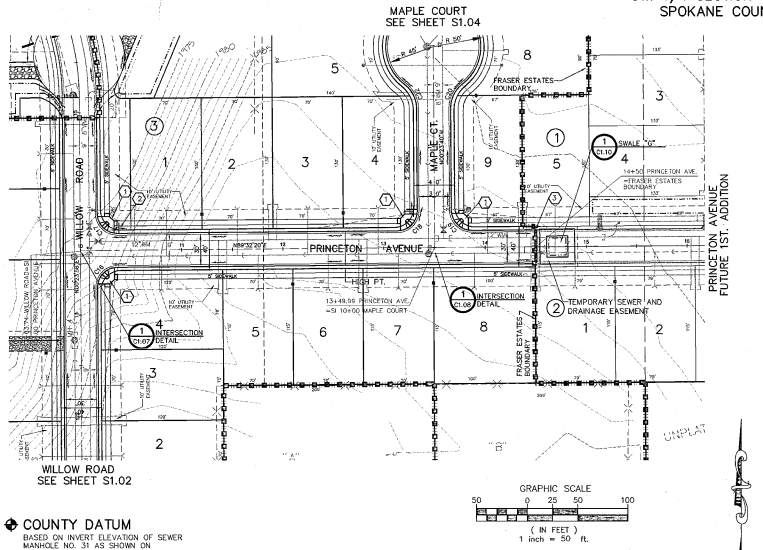
STREET CONSTRUCTION PLANS
FRASER ESTATES
MAPLE COURT
STA. 10+00.00 TO STA. 12+45.70
SPOKANE COUNTY, WASHINGTON

Sheet Title
MAPLE COURT PLAN AND PROFILE

C1.08
Sheet Number

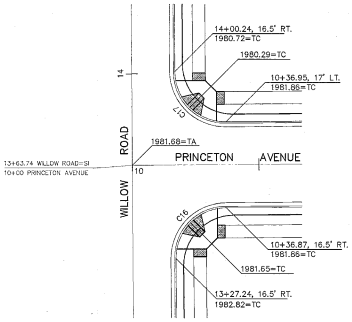
P-1864 Eng. Road & Drainage

SW. 1/4 SECTION 32, T.26 N., R.44 E., W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. PROVIDE AND INSTALL CURB RAMP "DESIGN B" PER SPOKANE COUNTY STANDARD PLAN A-5.
2. PROVIDE AND INSTALL STOP SIGN AND STREET SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
3. PROVIDE AND INSTALL TYPE "3" BARRICADE PER W.S.D.O.T. STANDARD PLAN H-2.



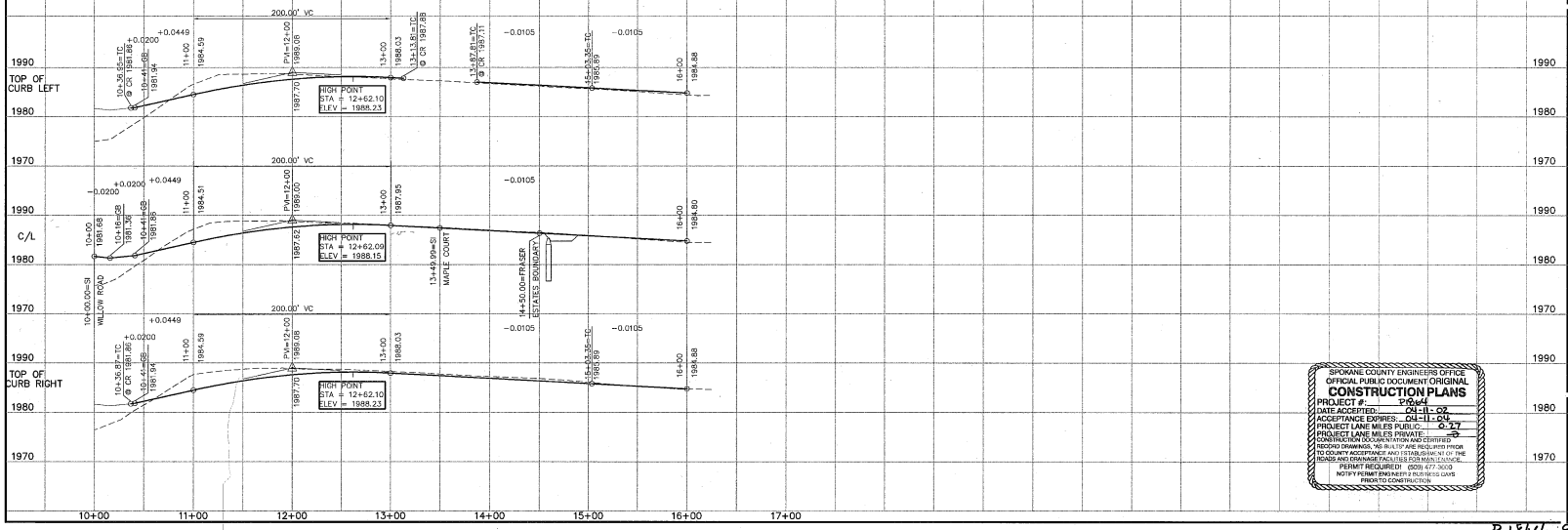
INTERSECTION DETAIL (1)
SCALE: 1" = 20'

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C16	20.00'	31.39'	19.98	28.27'	89°58'18"
C17	20.00'	31.44'	20.02	28.30'	90°03'42"
C18	20.00'	31.39'	19.98	28.27'	89°56'00"
C19	20.00'	31.44'	20.02	28.30'	90°04'00"

COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

Brian Whitman for Kinney-Matteson Corp (its manager) 2/14/02
David Randall for Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT: ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1864
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ITS PUBLISHING OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3033
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

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

CLC Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 W. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 838-6940
Fax: (509) 458-5964

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED PROFESSIONAL ENGINEER
3/PRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL
WASHINGTON REGISTRATION NO. 26984
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

Date	Description
04/26/01	PRELIMINARY SUBMITTAL
07/23/01	REVISED PER SPOKANE COUNTY ENGINEERS
01/04/02	PRELIMINARY SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: RLM
Designed By: DNR
Checked By: DNR

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STREET CONSTRUCTION PLANS
FRASER ESTATES
PRINCETON AVENUE
STA. 10+00.00 TO STA. 16+00.00
SPOKANE COUNTY, WASHINGTON

Sheet Title
PRINCETON AVENUE PLAN AND PROFILE

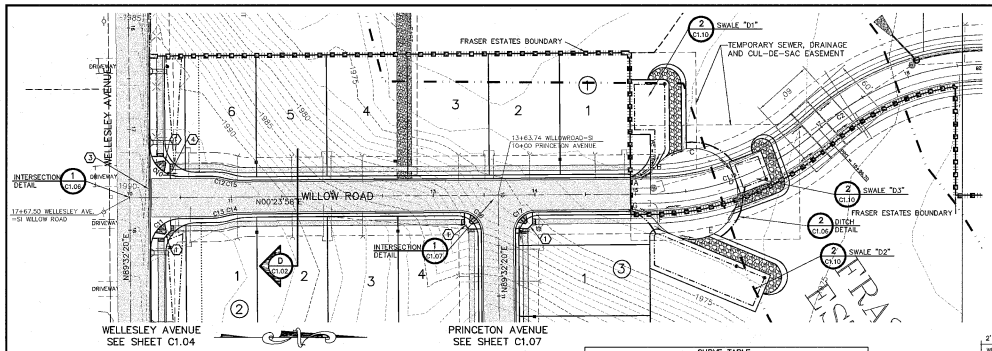
C1.07
Sheet Number

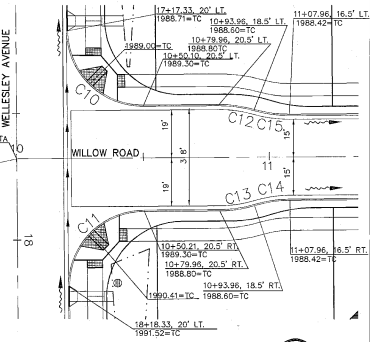
P-1864 Eng. Road + Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON

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

K Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 N. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 456-8860
Fax: (509) 456-8864

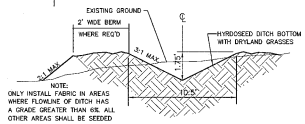




INTERSECTION DETAIL

SCALE: 1" = 20'

1



DITCH CROSS-SECTION

NOT TO SCALE

2

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

COUNTY DATUM

BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL CURB RAMP "DESIGN "B" PER SPOKANE COUNTY STANDARD PLAN A-5.
2. NOT USED
3. PROVIDE AND INSTALL CEMENT CONCRETE CROSS GUTTER PER SPOKANE COUNTY STANDARD PLAN B-18.
4. PROVIDE AND INSTALL STOP SIGN AND STREET SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.

CURVE TABLE

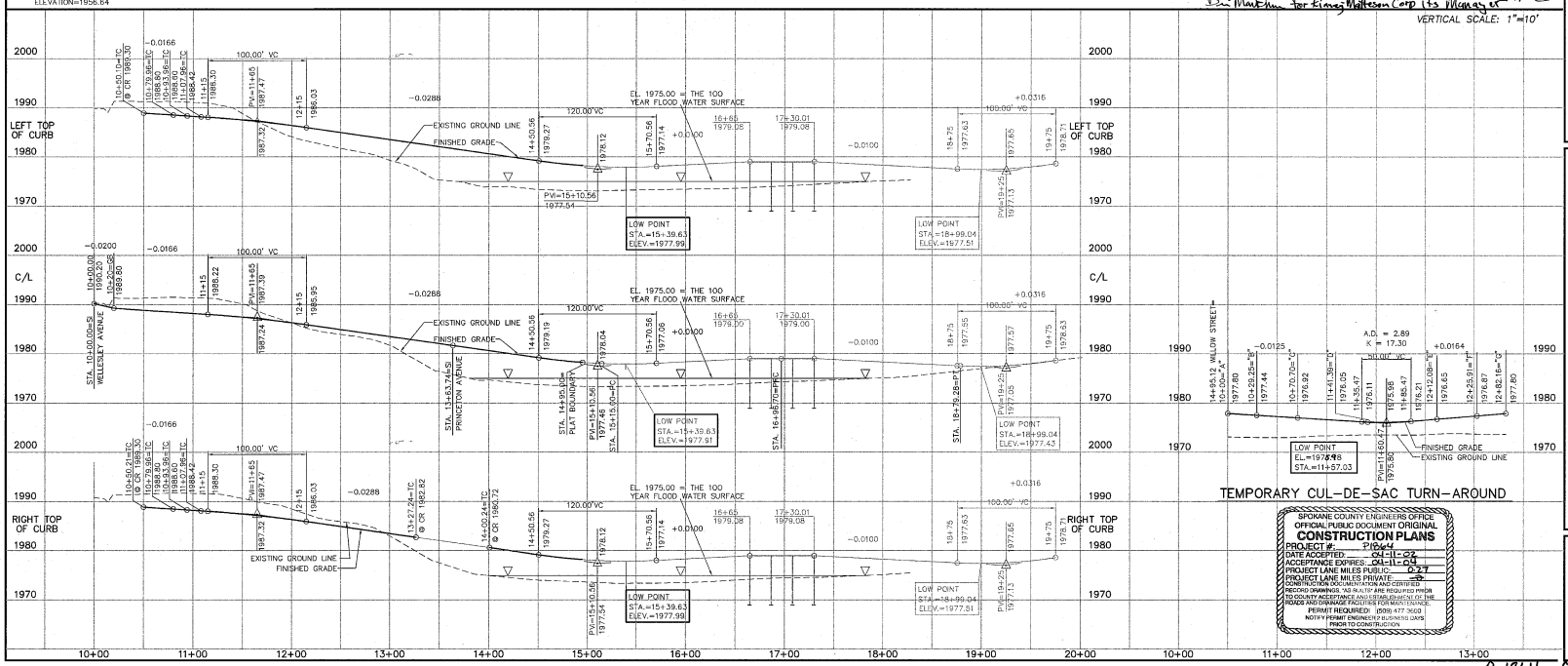
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	250.00	181.70	95.07	177.72	41°38'30"
C2	250.00	182.58	95.58	178.55	41°50'42"
C10	30.00'	47.09'	29.97	42.40'	89°56'18"
C11	30.00'	47.16'	30.03	42.45'	90°03'42"
C12	50.00'	14.19'	7.14	14.14'	16°15'37"
C13	50.00'	14.19'	7.14	14.14'	16°15'37"
C14	50.00'	14.19'	7.14	14.14'	16°15'37"
C15	50.00'	14.19'	7.14	14.14'	16°15'37"
C16	20.00'	31.39'	19.98	28.27'	89°56'18"
C17	20.00'	31.44'	20.02	28.30'	90°03'42"

DEVELOPER'S APPROVAL DATE

D. J. Randall for Mike Kinney 2/6/02

Bill Markham for Kinney Mallesen Corp its Manager 2/19/02

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1864
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.29
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, AS BUILT, ARE REQUIRED PRIOR TO CONSTRUCTION AND ESTABLISHMENT OF THE ROAD AND DRAINAGE SYSTEM FOR MAINTENANCE
PERMIT REQUIRED: (509) 477 3600
NOTIFY PERMIT ENGINEER 7 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL P.E.
WASHINGTON REGISTRATION NO. 26984
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

Date	Description
04/26/01	ORIGINAL PREPARATION
07/23/01	REVISED PER SPOKANE COUNTY
01/30/02	PRELIMINARY SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: RLM
Designed By: DNR
Checked By: DNR

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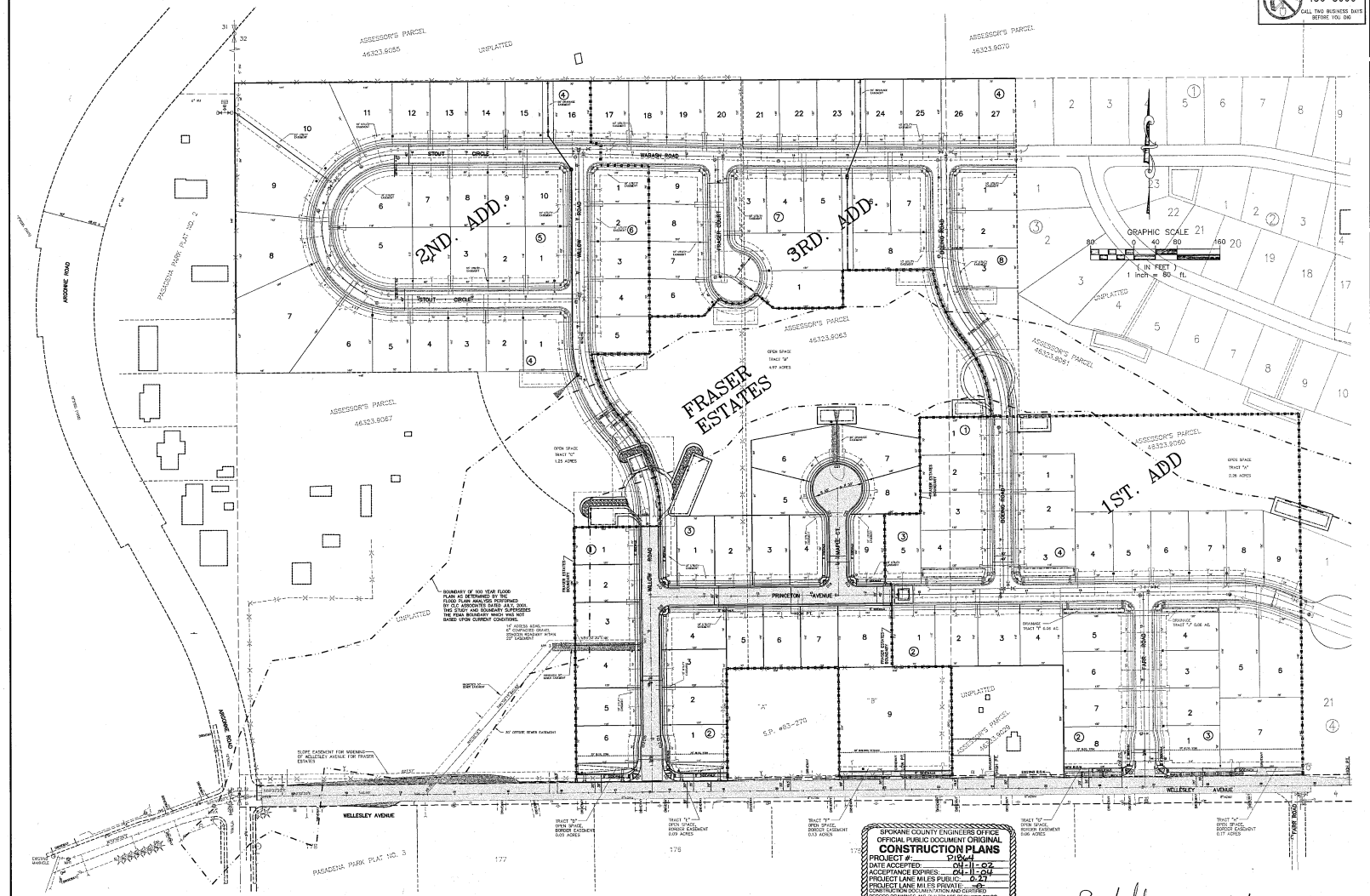
STREET CONSTRUCTION PLANS
FRASER ESTATES
WILLOW ROAD
STA. 10+00.00 TO STA. 19+75.00
SPOKANE COUNTY, WASHINGTON

Sheet Title
WILLOW ROAD PLAN AND PROFILE

C1.06
Sheet Number

P 1864 Eng Road + Drainage

SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON



COUNTY DATUM
BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 218041
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: -0-
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

For Kennedy/Walters Corp. Its Manager 2/19/02
For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE

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

CLC Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 N. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 456-8840
Fax: (509) 456-8844

DAVID N. RANDALL
STATE OF WASHINGTON
20584
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL, P.E. WASHINGTON REGISTRATION NO. 20584 FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

Date	Description
07/20/01	PRELIMINARY SUBMITTAL
09/24/01	PRELIMINARY SUBMITTAL
01/03/02	SECOND SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: 0990126
Drawn By: RLM
Designed By: RLM
Checked By: DNR

DATA PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROTECTED BY COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS DO CONTAIN TRADE SECRETS AND ARE PROPRIETARY. THEY ARE LOANED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CLC ASSOCIATES, INC. (AN AFFILIATE OF SCANLAN LAND CONSULTANTS, INC.)

STREET CONSTRUCTION PLANS
FRASER ESTATES
OVERALL STREET PLAN
SPOKANE COUNTY, WASHINGTON

Sheet Title: OVERALL STREET PLAN
Sheet Number: C1.01

P-1864 Eng Road & Drainage

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

GENERAL NOTES

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

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE SPOKANE COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

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

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

9. 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 AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO THE SPOKANE COUNTY INSPECTOR AT ALL TIMES.

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

14. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

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

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

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

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

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

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

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

STORM DRAINAGE NOTES

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

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

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

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

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE SPOKANE COUNTY STANDARDS (1999 EDITION) SHEET B-1a FOR INSTALLATION LOCATIONS.

6. ALL SWALES WITHIN THE COUNTY RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE SWALE GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE SWALES FOLLOWING THE ROAD PAVING WORK.

7. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.

   IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS, THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

8. ALL LANDSCAPE AREAS ('208' SWALES) ARE TO BE IRRIGATED BY AN AN AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY.

SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC. WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED. PATCH ASPHALT AS NEEDED.

LAWN AREAS: LAWN AREAS ARE TO BE IRRIGATED WITH TORO POP-UP HEADS OR EQUIVALENT. (TEST SYSTEM BEFORE BACKFILLING).

ADJUSTMENT: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, ETC. TO PROVIDE UNIFORM COVERAGE AND TO MINIMIZE OVER SPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.

WATER POWER SUPPLY: THE OWNER/ GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.

9. THE FLOOR OF A GRASSED PERCOLATION AREA (G.P.A.) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND SIDE SLOPES OF THE SWALE UP TO THE G.P.A. OVERFLOW SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL WITH MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL G.P.A. SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO TO NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

STREET GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AND AS AMENDED.

2. THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.

3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

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

5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, DAVID N. RANDALL, P.E., @ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, S.T.I., PAUL NELSON, P.E., @ 534-9711 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.

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

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

8. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.

   IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

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

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

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

COUNTY DATUM

BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1864
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: .27
PROJECT LANE MILES PRIVATE: -0-
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

Bri Mulden For Kinney Matteson Corp its manager 2/14/02
D. Randall For Mike Kinney 2/6/02
DEVELOPER'S APPROVAL DATE

P-1864 Eng Road & Drainage

Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 W. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 458-6840
Fax: (509) 458-6844

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED PROFESSIONAL ENGINEER
2/6/02
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF
DAVID N. RANDALL, P.E.
WASHINGTON REGISTRATION NO. 26984
FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

Date	Description
04/18/01	PRELIMINARY SUBMITTAL
08/01/01	REVISED PER SPOKANE COUNTY ENGINEER'S
01/03/02	SECOND SUBMITTAL
01/31/02	FINAL SUBMITTAL

Spokane County No. P-1864
CLC Job Number: S990126
Drawn By: RLM
Designed By: RLM
Checked By: DNR

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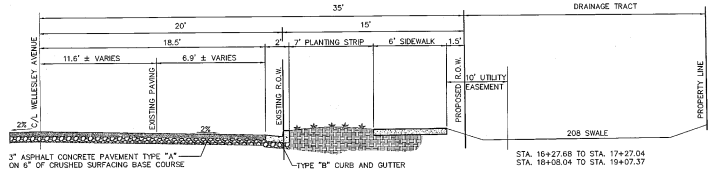
STREET AND DRAINAGE CONSTRUCTION PLANS
FRASER ESTATES
DRAINAGE-STREET-GENERAL NOTES
SPOKANE COUNTY, WASHINGTON

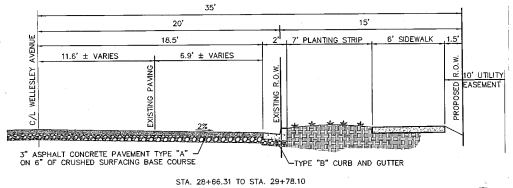
Sheet Title
STREET AND DRAINAGE NOTES

C1.00A
Sheet Number



TYPICAL SECTION WELLESLEY AVENUE (WITH 208 SWALE) — A

NOT TO SCALE



TYPICAL SECTION WELLESLEY AVENUE (NO 208 SWALE) — B

NOT TO SCALE

COUNTY DATUM

BASED ON INVERT ELEVATION OF SEWER MANHOLE NO. 31 AS SHOWN ON "MILLWOOD-NORTHWOOD SEWER EXTENSION PLAN" SHEET 8 OF 21, ELEVATION=1956.64

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

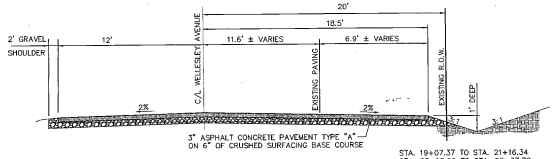
SW 1/4 SEC. 32, T.26 N., R.44 E.,W.M.
SPOKANE COUNTY, WASHINGTON

CLC Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
707 W. 7th Avenue, Suite 200
Spokane, WA 99204
Phone: (509) 456-6840
Fax: (509) 456-6844

DAVID N. RANDALL — STATE OF WASHINGTON — 26984 — REGISTERED PROFESSIONAL ENGINEER — 2/4/02

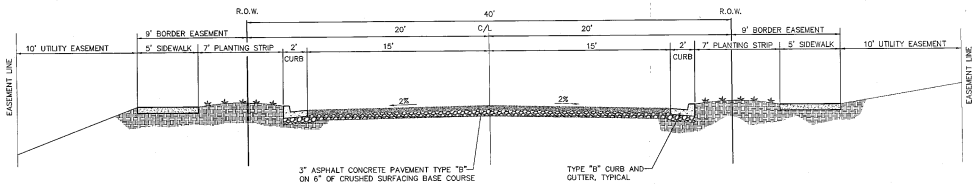
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL, P.E. WASHINGTON REGISTRATION NO. 26984. FOR AND ON BEHALF OF CLC ASSOCIATES, INC.



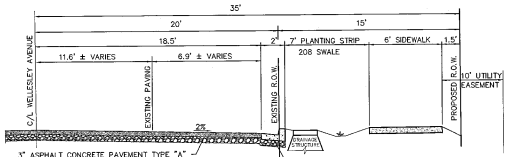
TYPICAL SECTION WELLESLEY AVENUE (NO CURB) — C

NOT TO SCALE



TYPICAL SECTION (INTERIOR OF PLAT) — D

NOT TO SCALE



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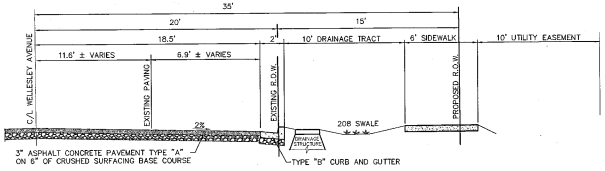

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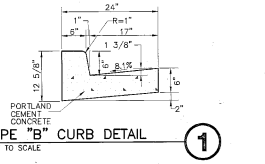
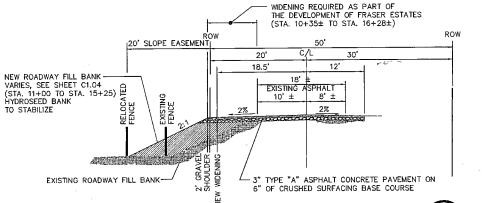


TYPE "B" CURB DETAIL — 1

NOT TO SCALE



TYPICAL SLOPE EASEMENT SECTION — G

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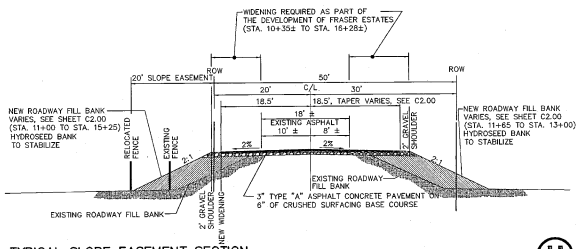

TYPICAL SLOPE EASEMENT SECTION — H

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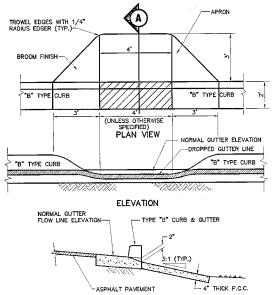
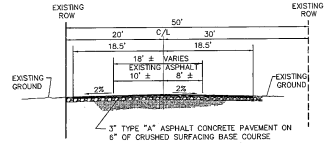


CURB INLET-"B" TYPE CURB DETAIL — 2

NOT TO SCALE



TYPICAL SECTION — I

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1864
DATE ACCEPTED: 04-11-02
ACCEPTANCE EXPIRES: 04-11-04
PROJECT LANE MILES PUBLIC: 0.27
PROJECT LANE MILES PRIVATE: -0-
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

For Kenny Wallace Corp 1st Drawing 2/11/02
DEVELOPER'S APPROVAL

For Mike Kinney 2/6/02
DATE

Date	Description
06/03/01	PRELIMINARY SUBMITTAL
07/03/01	REVISED PER SPOKANE COUNTY ENGINEERS
09/20/01	ADDED WIDENING ON SOUTH SIDE PER SPOKANE COUNTY
01/03/02	SECOND SUBMITTAL
01/24/02	FINAL SUBMITTAL

Spokane County Job. P-1864
CLC Job Number: 5990126
Drawn By: RLM
Designed By: RLM DNR
Checked By: DNR

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STREET CONSTRUCTION PLANS
FRASER ESTATES
SECTIONS AND DETAILS
SPOKANE COUNTY, WASHINGTON

Sheet Title: STREET SECTIONS AND DETAILS

C1.02
Sheet Number

P-1864 Eng. Road + Drainage