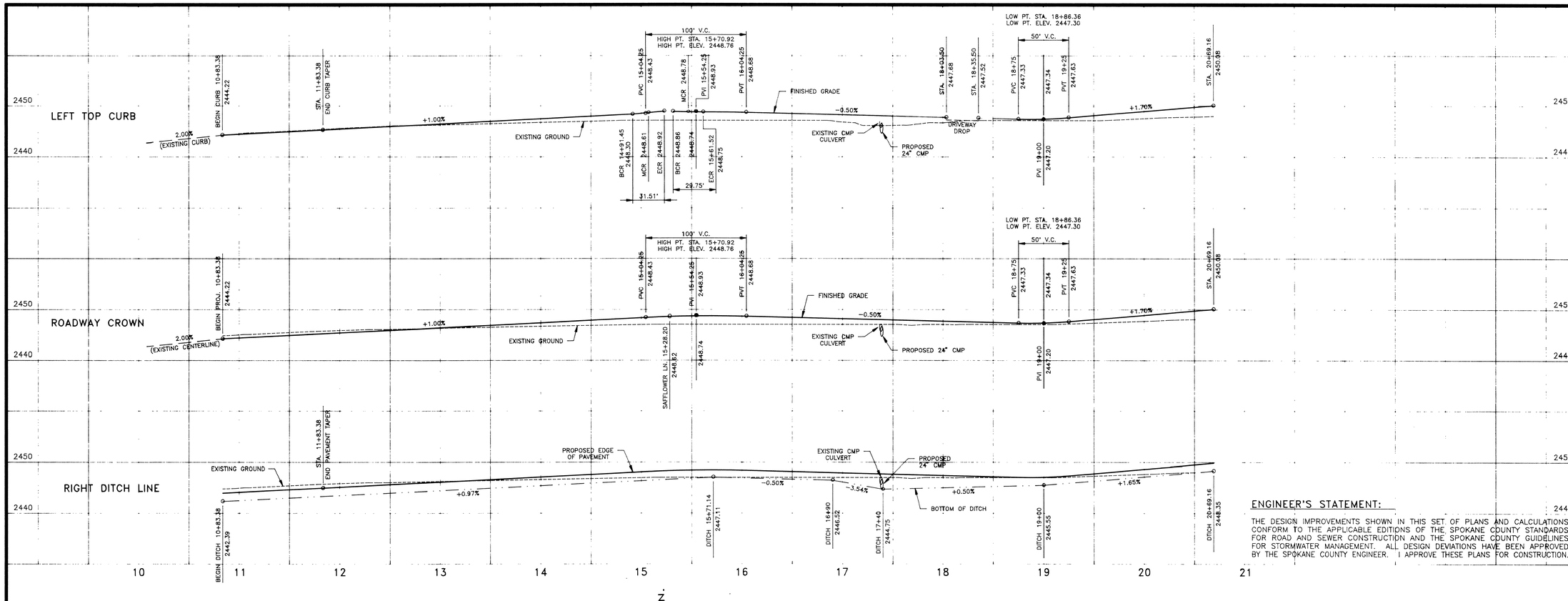
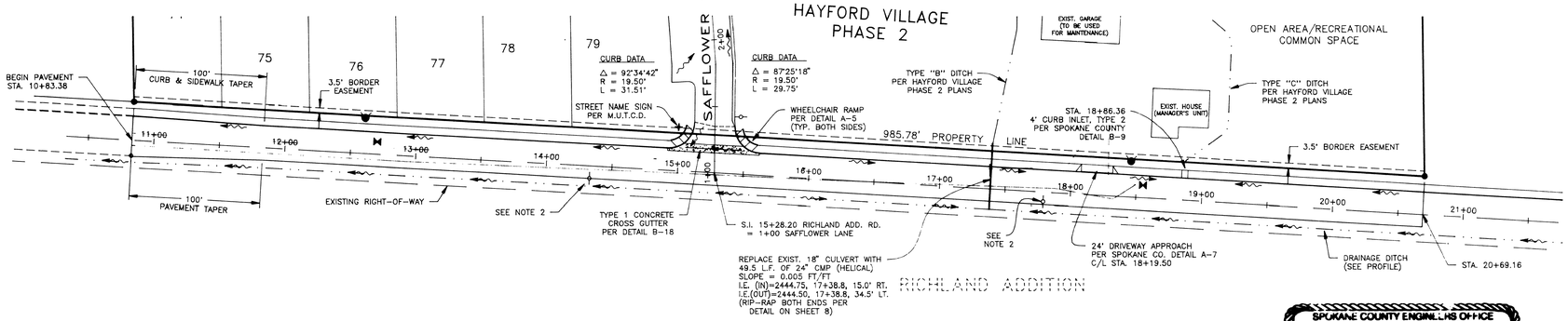
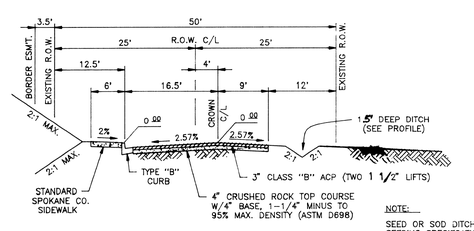




LEGEND

- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- EXISTING UTILITY POLE
- SURFACE FLOW DIRECTION
- PROPOSED DRAINAGE DITCH
- PROPOSED CURB AND SIDEWALK



TYPICAL SECTION (Sta. 11+83.38 to 20+69.16)
NOT TO SCALE

NOTE:
SEED OR SOD DITCH PER SEEDING SPECIFICATIONS ON SHEET 8.

SPOKANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: MAP-2-95/P 1791
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES: 6-3-2000
PROJECT LANE MILES PUBLIC: 0.78
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, RE-SAMPLY ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ENGINEERING OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 456-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CONSTRUCTION NOTES

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
2. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES. OWNER TO COORDINATE WITH THE UTILITY COMPANY FOR RELOCATING POWER POLES. POWER POLES SHOULD BE PLACED 10' FROM TRAVELED WAYS ACCORDING TO CLEAR-ZONE REQUIREMENTS. DUE TO RIGHT-OF-WAY LIMITS, POLES SHOULD BE MOVED AS FAR OFF THE ROAD AS POSSIBLE.

0 25 50 100
SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USC&GS BENCH MARK NO. 354

Richard J. Boyd 4-10-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
16006
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 04/06/98
SCALE: AS SHOWN

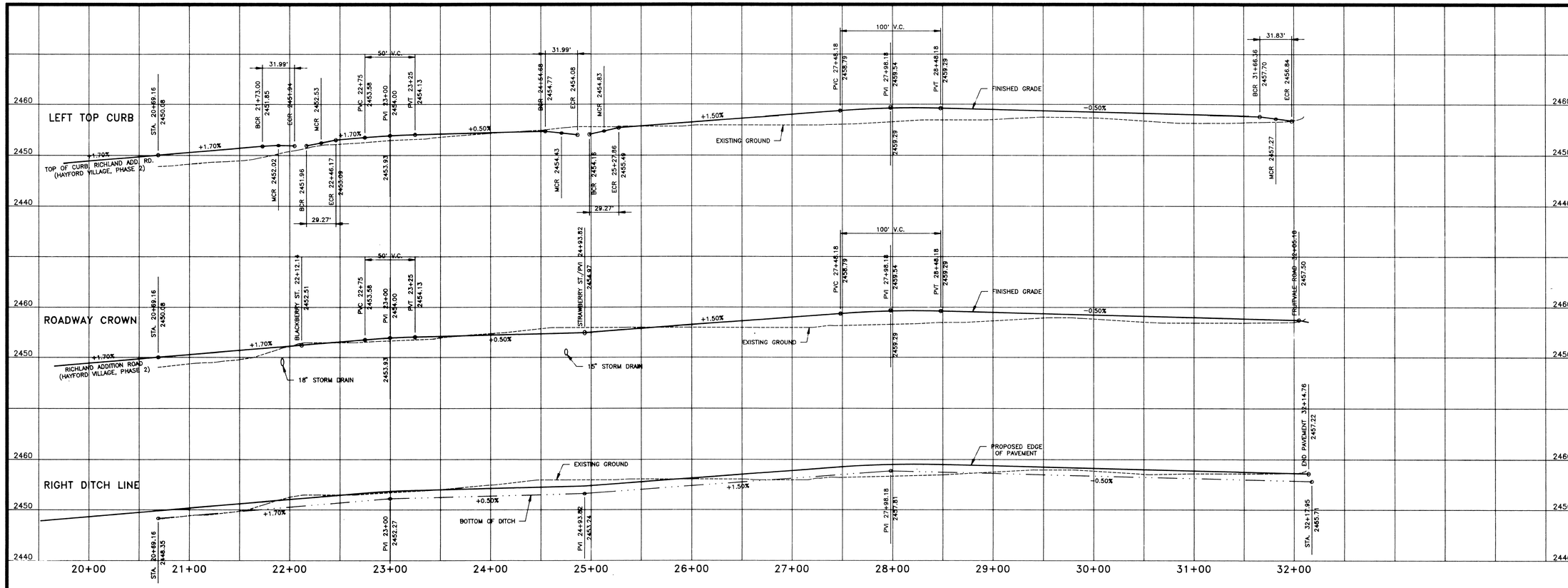
WEST TERRACE HEIGHTS
RICHLAND ADDITION ROAD
STREET PLAN AND PROFILE

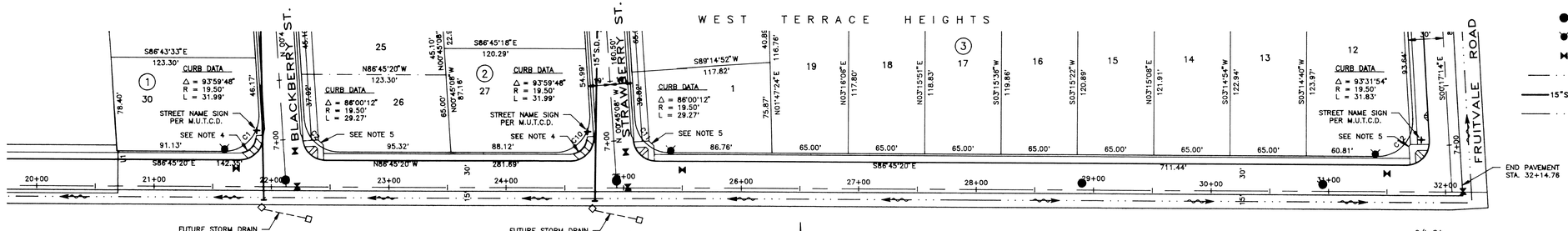
SHEET 1 OF 10
95-015

5915ROAD.DWG XREF: 5015BASE.DWG

PW 1791

Rod: E-50





C/L S.I.:
22+12.55 RICHLAND ADD. RD.
= 6+60 BLACKBERRY STREET

CROWN S.I.:
22+12.14 RICHLAND ADD. ROAD
= 6+66.01 BLACKBERRY STREET

C/L S.I.:
24+94.24 RICHLAND ADD. RD.
= 6+60 STRAWBERRY STREET

CROWN S.I.:
24+93.82 RICHLAND ADD. ROAD
= 6+66.01 STRAWBERRY STREET

C/L S.I.:
32+05.55 RICHLAND ADD. RD.
= 6+60 FRUITVALE ROAD

CROWN S.I.:
32+05.18 RICHLAND ADD. RD.
= 6+66.01 FRUITVALE ROAD

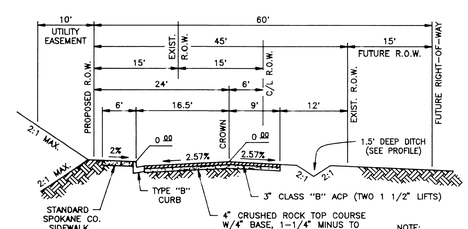
0 25 50 100
SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354

LEGEND

- PROPOSED SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED DITCH LINE (PROFILE)
- 15"S.D. — PROPOSED STORM DRAIN
- PROPOSED DRAINAGE DITCH



NOTE:
SEED OR SOD DITCH PER SEEDING SPECIFICATIONS ON SHEET 8.

TYPICAL SECTION (RICHLAND ADD. RD.)
NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 6-3-1998
EXPIRATION DATE: 6-3-2001
PROJECT LANE MILES PUBLIC: 0.71
PRIVATE LANE MILES ADDED: 0
PERMIT REQUIRED! (509) 456-8000
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CONSTRUCTION NOTES:

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
2. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
3. CURB DATA INFORMATION IS FOR BACK OF CURB.
4. WHEELCHAIR RAMP DESIGN "A", PER SPOKANE COUNTY STANDARD PLAN A-5.
5. WHEELCHAIR RAMP DESIGN "B", PER SPOKANE COUNTY STANDARD PLAN A-5.
6. 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.
7. 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.
8. 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.
9. ALL CMP SHALL BE HELICAL.

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Richard J. Brazler 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30681
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

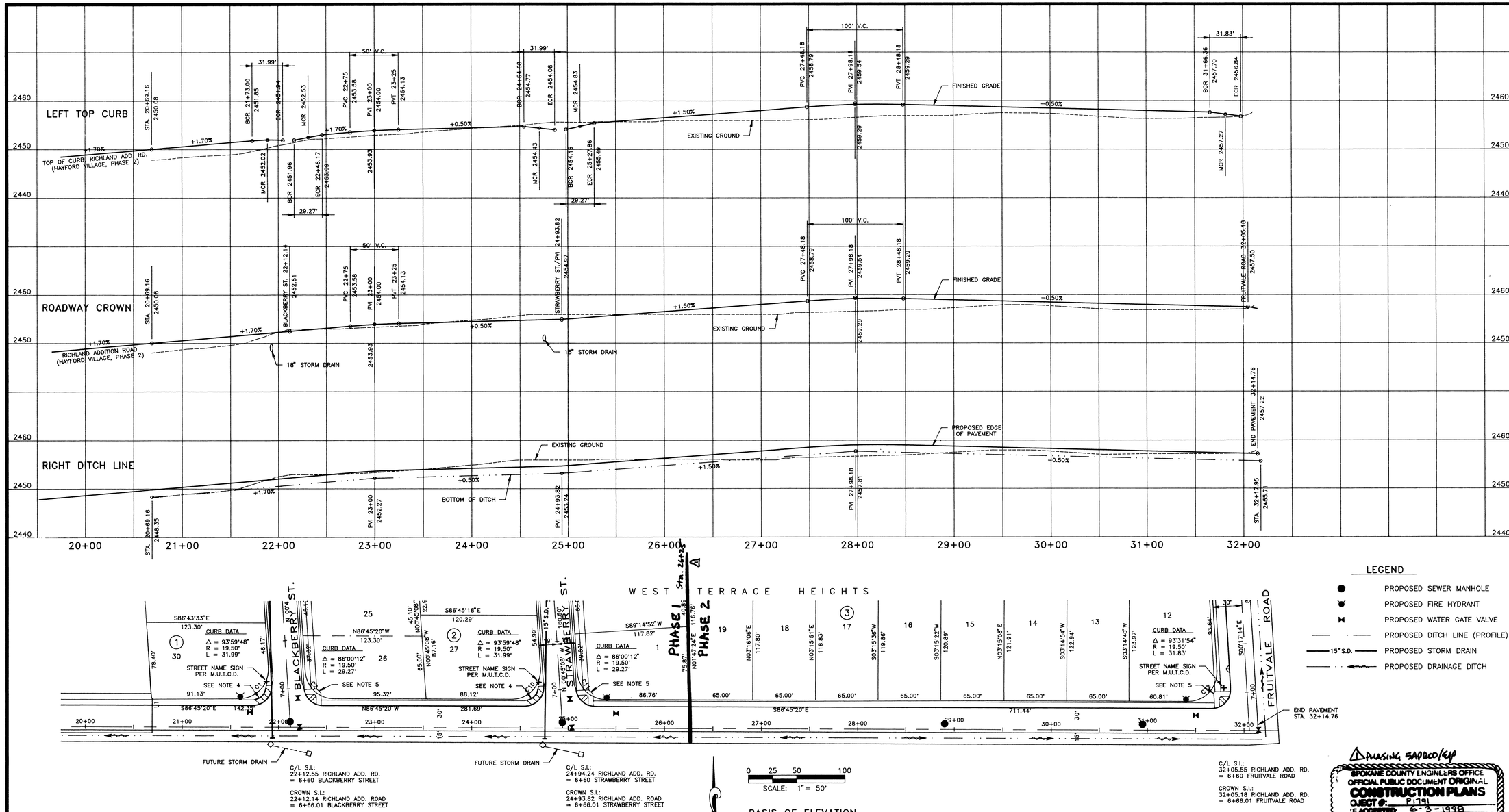
DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
RICHLAND ADDITION ROAD
STREET PLAN AND PROFILE

SHEET 2 OF 10

96-003.2

6XX3-ST5.DWG XREF: 6XX3BASE.DWG



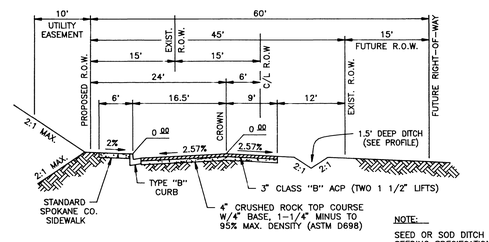
LEGEND

- PROPOSED SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED DITCH LINE (PROFILE)
- 15"S.D. PROPOSED STORM DRAIN
- PROPOSED DRAINAGE DITCH

0 25 50 100
SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354



TYPICAL SECTION (RICHLAND ADD. RD.)
NOT TO SCALE

NOTE:
SEED OR SOD DITCH PER SEEDING SPECIFCATIONS ON SHEET 8.

CONSTRUCTION NOTES:

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
2. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
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5. WHEELCHAIR RAMP DESIGN "B", PER SPOKANE COUNTY STANDARD PLAN A-5.
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9. ALL CMP SHALL BE HELICAL.

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Richard J. Brazler 1-12-98
DEVELOPER'S APPROVAL DATE

PHASING 5APR00/KLP

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 6-3-1998
ENCROACHMENT EXPIRES: 6-3-2001
PROJECT LANE MILES PUBLIC: 0.77
PROJECT LANE MILES PRIVATE: 0
NOTE: ENGINEERING INSPECTION REQUIRED
DRAWINGS, WHICH ARE ISSUED PRIOR TO THE ENGINEER'S AND SUPERVISOR OF THE ROAD & DRAINAGE FACILITIES ENGINEER'S APPROVAL
PERMIT REQUIRED (509) 456-8000
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

Revised 4/6/00 - Phase line

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

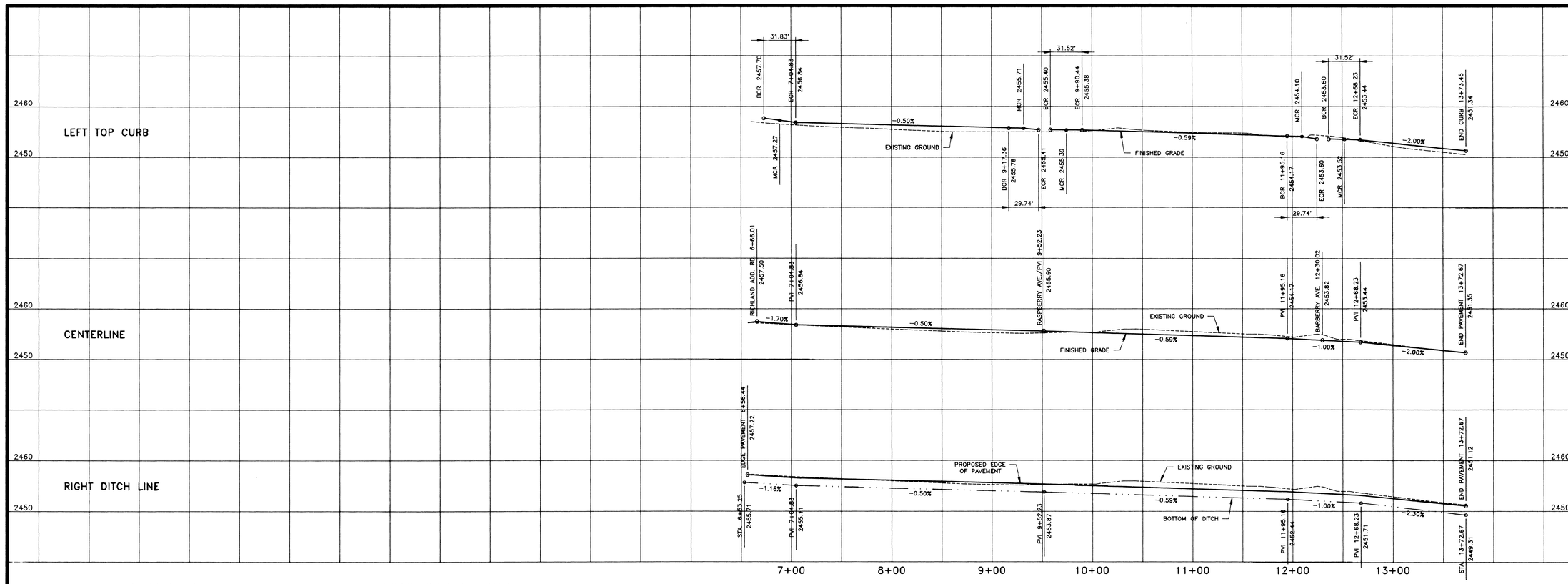
WEST TERRACE HEIGHTS
RICHLAND ADDITION ROAD
STREET PLAN AND PROFILE

SHEET 2 OF 10

96-003.2

CALL BEFORE YOU DIG 456-8000

6XXX-ST5.DWG XREF: 6XX3BASE.DWG



CURB INLETS

2' SPOKANE CO. TYPE 1 CURB INLET, PER DETAIL B-8
*(INVERT IS 0.1' LESS THAN GUTTER ELEV.)

	STATION	ELEVATION*
1	7+25	2456.14
2	9+00	2455.26
3	10+25	2454.58
4	11+75	2453.69
5	12+75	2452.70
6	13+50	2451.20

"208" POND DIMENSIONS

POND	BEGIN STA.	END STA.	LENGTH	SOUTH WIDTH	NORTH WIDTH
1	7+10.4	8+15.3	104.9'	2.3'	5.4'
2	8+21.2	9+15.2	94.0'	2.5'	5.3'
3	9+94.7	10+86.6	91.9'	2.0'	5.4'
4	10+93.1	11+93.0	99.9'	1.7'	5.4'
5	13+18.4	13+71.5	53.1'	1.1'	5.6'

LEGEND

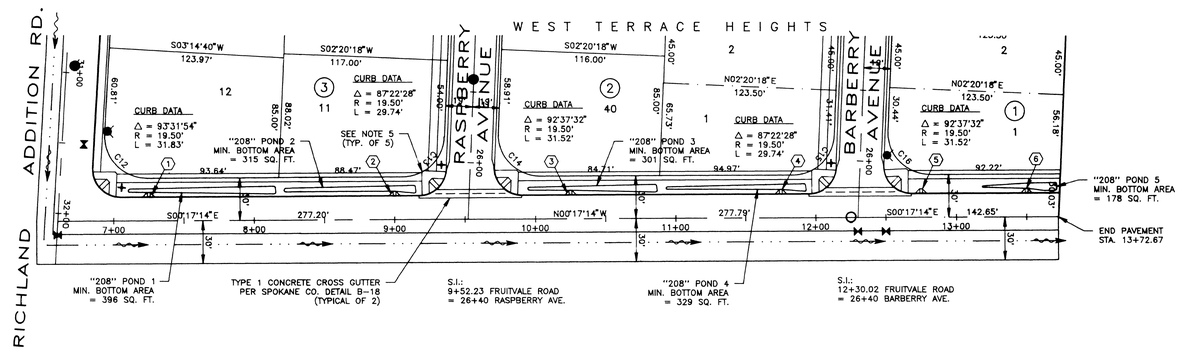
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED DITCH LINE (PROFILE)
- SPOKANE COUNTY TYPE 1 CURB INLET (SEE TABLE)
- STREET NAME SIGN PER M.U.T.C.D.
- PROPOSED DRAINAGE DITCH

CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES: 6-3-2001
PROJECT LANE MILES PUBLIC: 0.37
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTS ARE CERTIFIED
RECORD DRAWINGS AS BUILTS ARE REQUIRED PRIOR
TO FINAL PLANS ACCEPTANCE BY THE
ROADWAY MAINTENANCE
PHONE: 456-3600
NOTIFY 5 DAYS

0 25 50 100
SCALE: 1" = 50'

C/L S.I.:
6+60 FRUITVALE ROAD = 32+05.55 RICHLAND ADD. RD.

CROWN S.I.:
6+66.01 FRUITVALE ROAD = 32+05.18 RICHLAND ADD. RD.



BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354

CONSTRUCTION NOTES:

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
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3. CURB DATA INFORMATION IS FOR BACK OF CURB.
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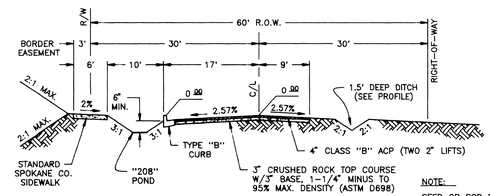


TYPICAL SECTION (FRUITVALE ROAD)
NOT TO SCALE

NOTE:
SEED OR SOD DITCH AND PONDS PER SEEDING SPECIFICATIONS ON SHEET 8.

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Michael J Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

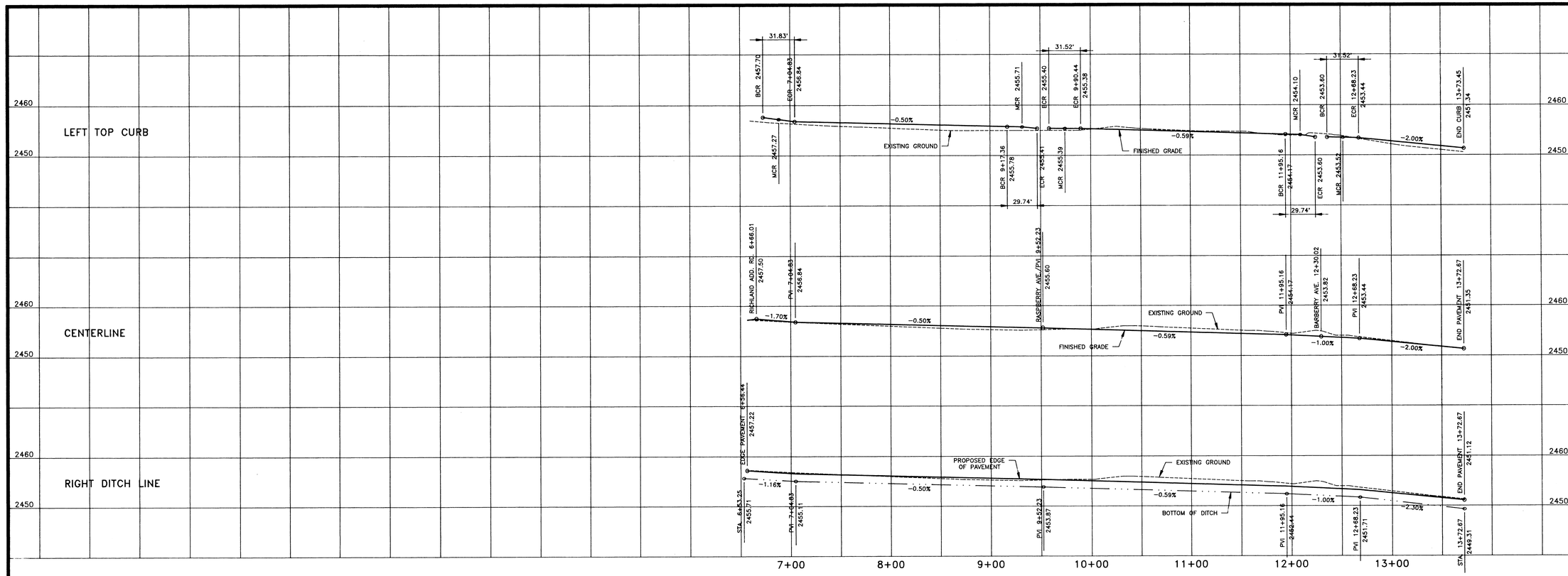
DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
FRUITVALE ROAD
STREET PLAN AND PROFILE

SHEET 3 OF 10

96-003.2

6XX3-ST6.DWG XREF: 6XX3BASE.DWG



CURB INLETS

2' SPOKANE CO. TYPE 1 CURB INLET, PER DETAIL B-8
*(INVERT IS 0.1' LESS THAN GUTTER ELEV.)

	STATION	ELEVATION*
1	7+25	2456.14
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3	10+25	2454.58
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5	12+75	2452.70
6	13+50	2451.20

"208" POND DIMENSIONS

POND	BEGIN STA.	END STA.	LENGTH	SOUTH WIDTH	NORTH WIDTH
1	7+10.4	8+15.3	104.9'	2.3'	5.4'
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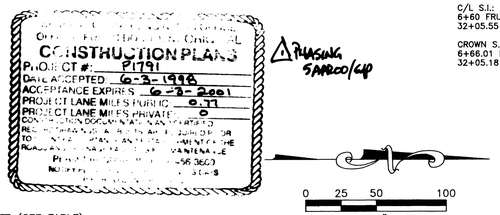
5	13+18.4	13+71.5	53.1'	1.1'	5.6'

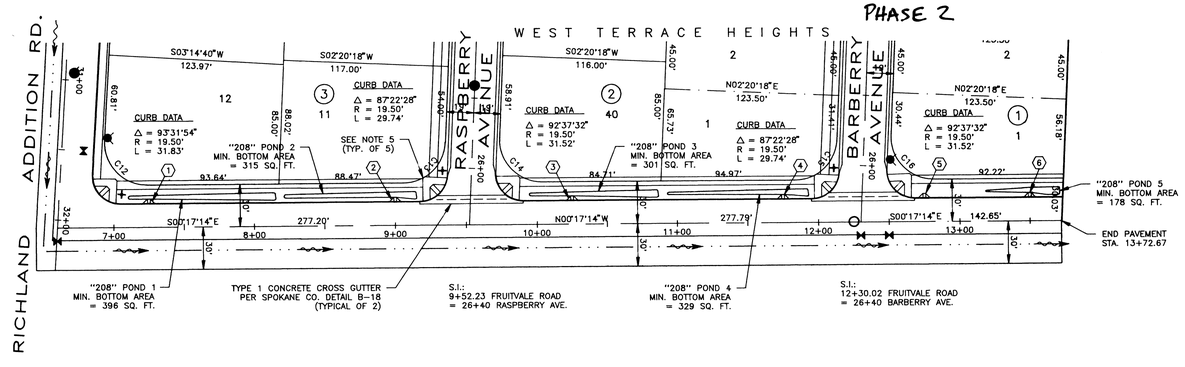
LEGEND

- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED DITCH LINE (PROFILE)
- SPOKANE COUNTY TYPE 1 CURB INLET (SEE TABLE)
- STREET NAME SIGN PER M.U.T.C.D.
- PROPOSED DRAINAGE DITCH



PHASING SAMPLE/CLP

0 25 50 100
SCALE: 1" = 50'



BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354

CONSTRUCTION NOTES:

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
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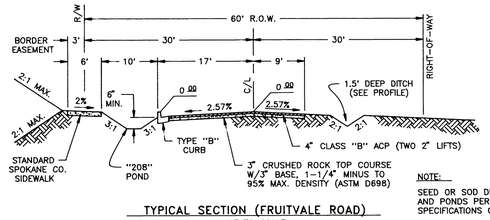


TYPICAL SECTION (FRUITVALE ROAD)
NOT TO SCALE

NOTE:
SEED OR SOD DITCH AND PONDS PER SEEDING SPECIFICATIONS ON SHEET 8.

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Michael J Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

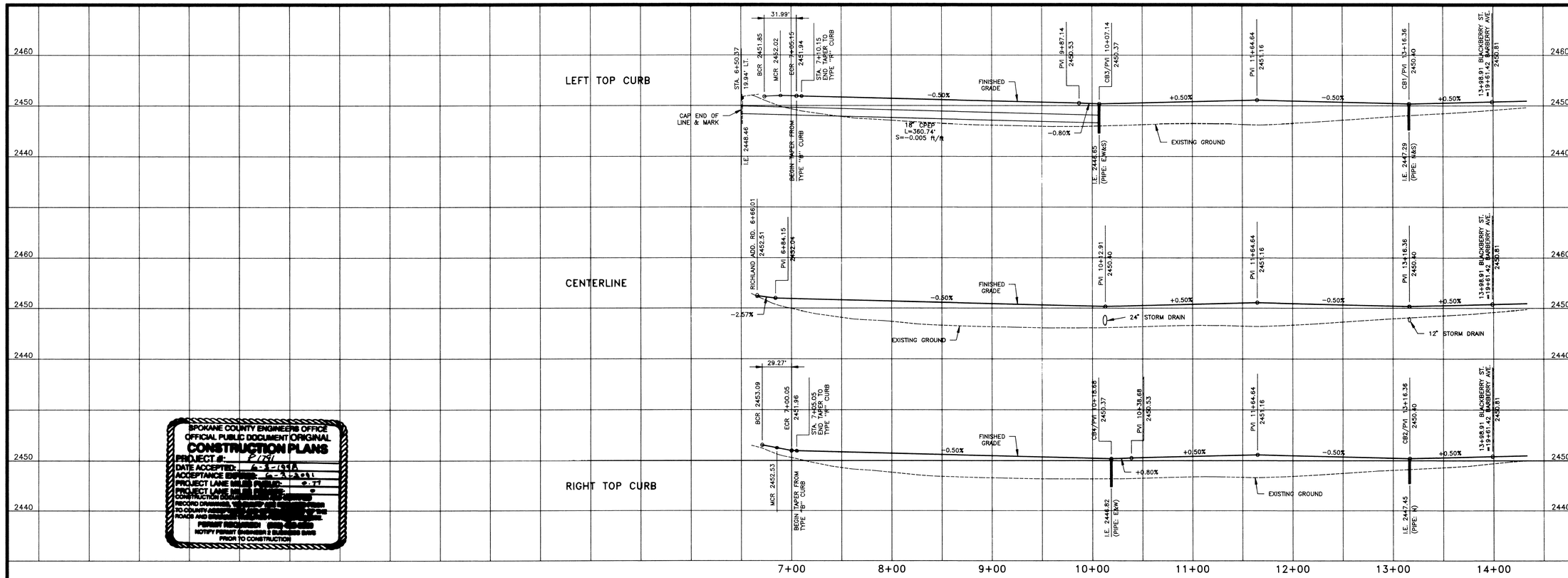
JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS FRUITVALE ROAD STREET PLAN AND PROFILE

96-003.2

6XA3-ST6.DWG XREF: 6XX3BASE.DWG



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2791
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES: 6-3-2001
PROJECT LANE MILES ADDED: 0.77
PROJECT LANE MILES DELETED: 0
CONSTRUCTION DRAWINGS [illegible]
RECORD DRAWINGS [illegible]
TO COUNTY [illegible]
ROADS AND [illegible]
PERMIT REQUIRED [illegible]
NOTIFY PERMIT ENGINEER 24 HOURS PRIOR TO CONSTRUCTION

CONSTRUCTION NOTES:

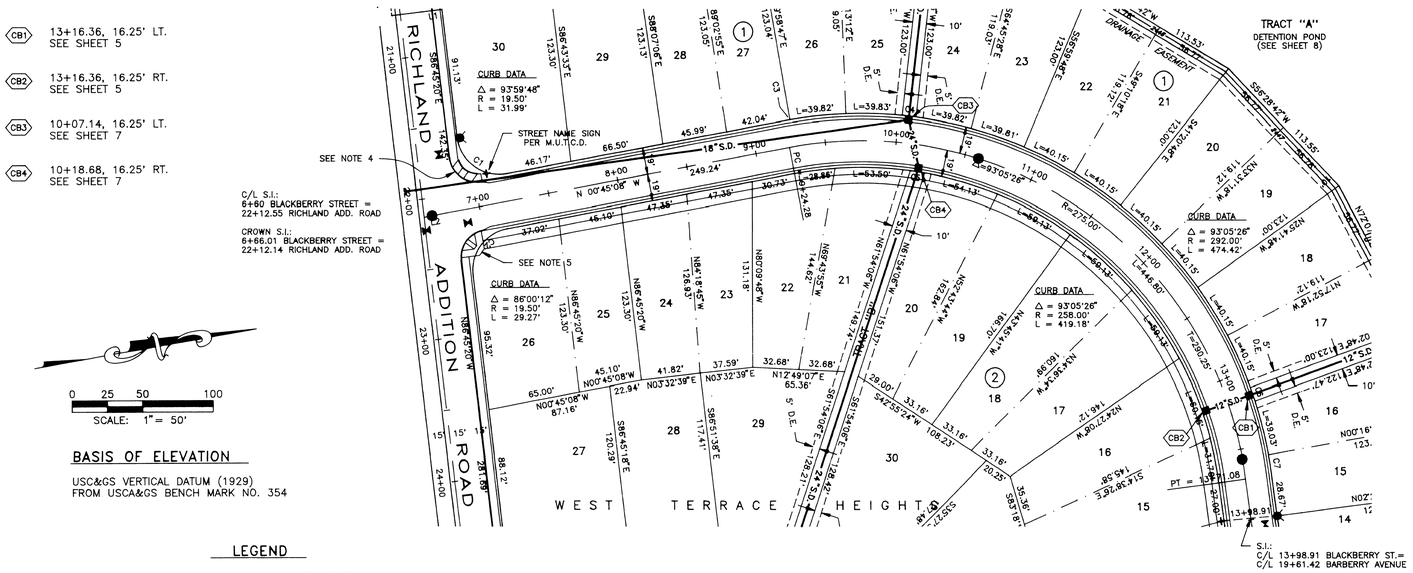
1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
2. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
3. CURB DATA INFORMATION IS FOR BACK OF CURB.
4. WHEELCHAIR RAMP DESIGN "A", PER SPOKANE COUNTY STANDARD PLAN A-5.
5. WHEELCHAIR RAMP DESIGN "B", PER SPOKANE COUNTY STANDARD PLAN A-5.
6. 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.
7. 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.
8. 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.
9. ALL STORM DRAIN SHALL BE CPEP, ADS N-12 CORRUGATED PIPE.

CB1 13+16.36, 16.25' LT. SEE SHEET 5

CB2 13+16.36, 16.25' RT. SEE SHEET 5

CB3 10+07.14, 16.25' LT. SEE SHEET 7

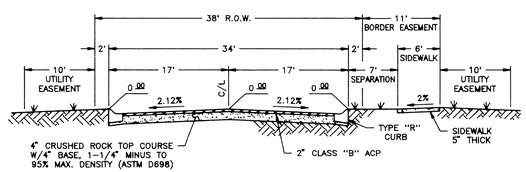
CB4 10+18.68, 16.25' RT. SEE SHEET 7



0 25 50 100
SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354



TYPICAL STREET SECTION (BLACKBERRY STREET)
NOT TO SCALE

LEGEND

●	PROPOSED SEWER MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER GATE VALVE
■	PROPOSED CATCH BASIN
—18"S.D.—	PROPOSED STORM DRAIN, DIA. AS SHOWN
D.E.	DRAINAGE EASEMENT
+	STREET NAME SIGN PER M.U.T.C.D.

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Michael J. Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

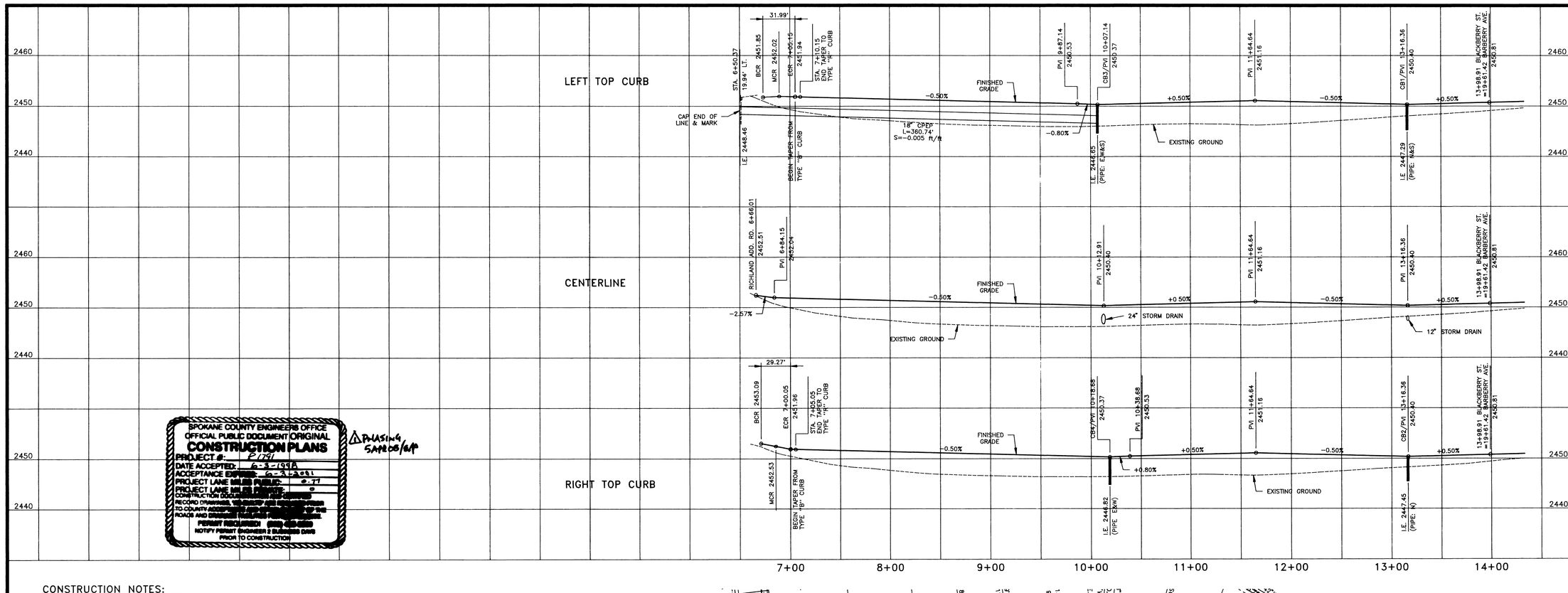
JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
BLACKBERRY STREET
STREET PLAN AND PROFILE

96-003.2

6XX3-ST1.DWG XREF: 6XX3BASE.DWG



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1751
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES: 6-3-12001
PROJECT LANE MILES PUBLIC: 0.77
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTS NOT ACCEPTED
RECORD DRAWINGS, WARRANTY AND MAINTENANCE TO COUNTY ACCEPTED FOR ROADS AND DRAINAGE FACILITIES ONLY
PERMIT REQUIRED FOR ROW
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

Phasing SAMCOS/GMP

CONSTRUCTION NOTES:

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
2. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
3. CURB DATA INFORMATION IS FOR BACK OF CURB.
4. WHEELCHAIR RAMP DESIGN "A", PER SPOKANE COUNTY STANDARD PLAN A-5.
5. WHEELCHAIR RAMP DESIGN "B", PER SPOKANE COUNTY STANDARD PLAN A-5.
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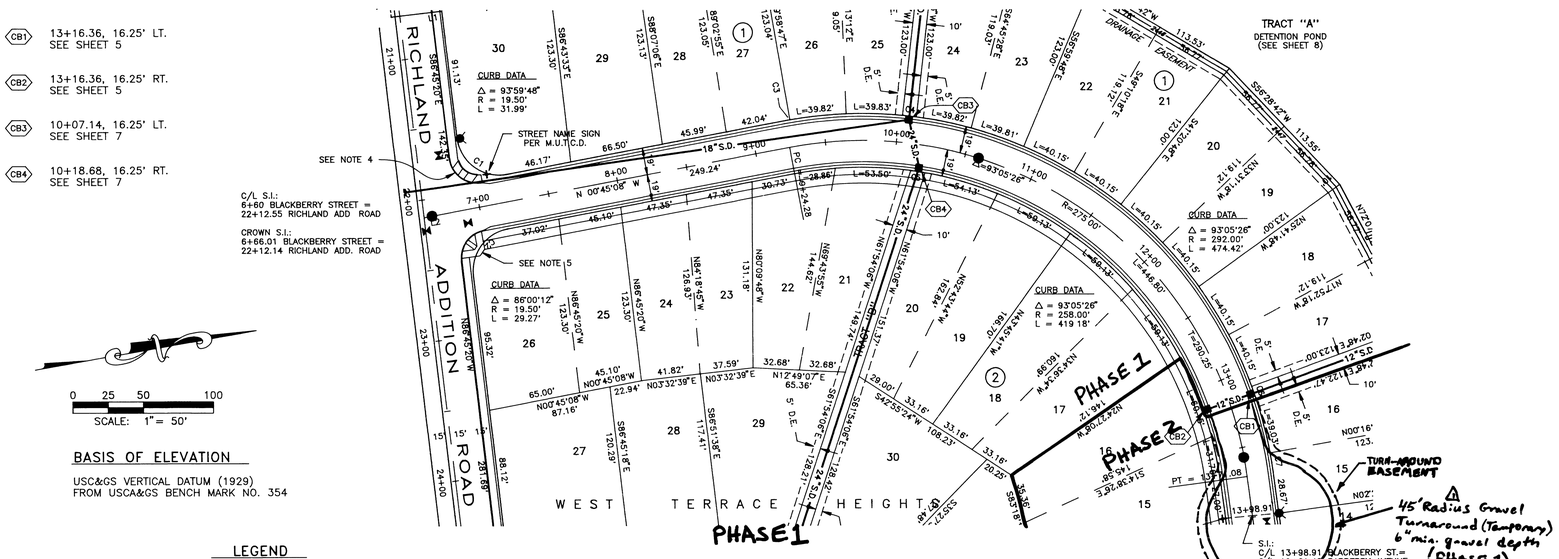
9. ALL STORM DRAIN SHALL BE CPEP, ADS N-12 CORRUGATED PIPE.

CB1 13+16.36, 16.25' LT. SEE SHEET 5

CB2 13+16.36, 16.25' RT. SEE SHEET 5

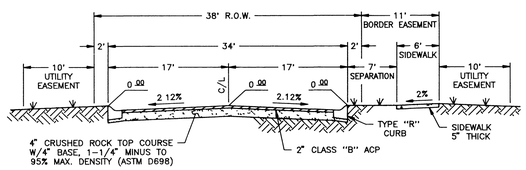
CB3 10+07.14, 16.25' LT. SEE SHEET 7

CB4 10+18.68, 16.25' RT. SEE SHEET 7



BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354



TYPICAL STREET SECTION (BLACKBERRY STREET)
NOT TO SCALE

LEGEND

●	PROPOSED SEWER MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER GATE VALVE
■	PROPOSED CATCH BASIN
18"S.D.	PROPOSED STORM DRAIN, DIA. AS SHOWN
D.E.	DRAINAGE EASEMENT
+	STREET NAME SIGN PER M.U.T.C.D.

ENGINEER'S STATEMENT:

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Michael J. Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

Revised 4/5/00 - Phase Line & Turn Around

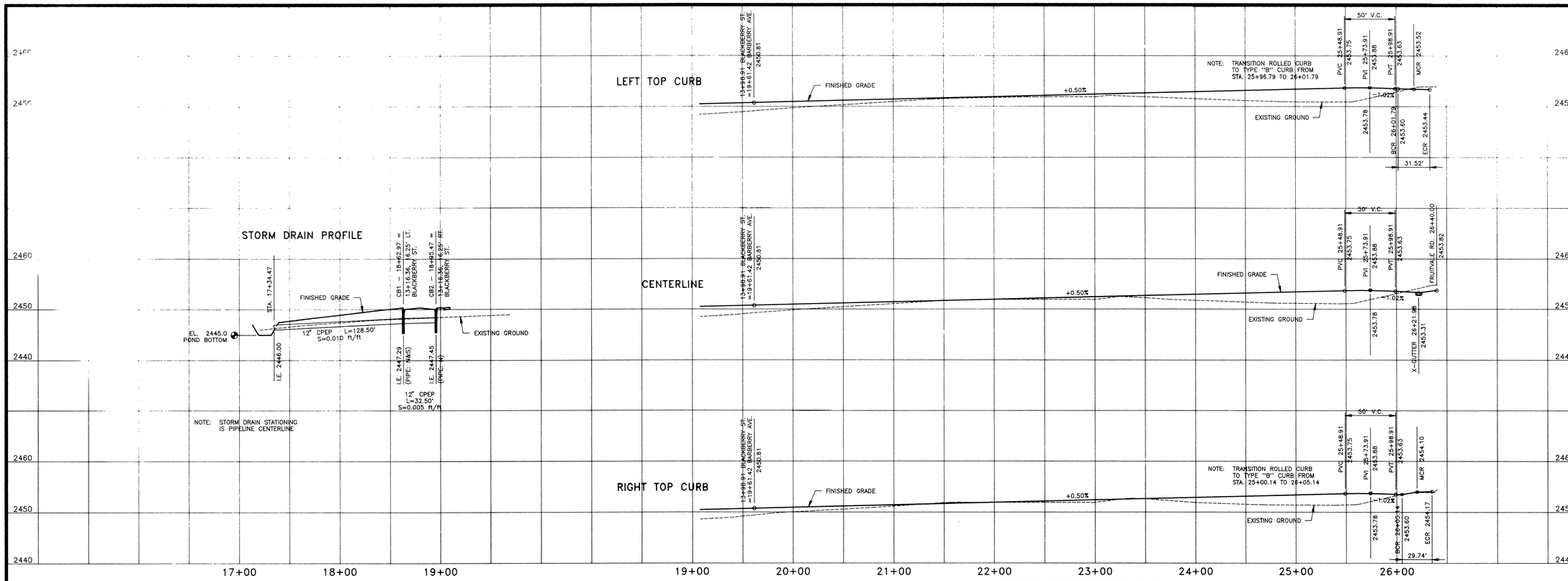
DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS BLACKBERRY STREET STREET PLAN AND PROFILE

SHEET 4 OF 10

96-003.2

6XX3-ST1.DWG XREF: 6XX3BASE.DWG



CONSTRUCTION NOTES:

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9. ALL STORM DRAIN SHALL BE CPEP, ADS N–12 CORRUGATED PIPE.
10. CATCH BASIN GRATE ELEVATION IS THE FRONT EDGE OF FRAME.

CB1 STA. 18+62.97 (STORM DRAIN STATIONING)
SPOKANE CO. TYPE 1 CATCH BASIN
W/TYPE S METAL FRAME & GRATE
GRATE ELEV. = 2449.98
I.E. (N&S) = 2447.29

CB2 STA. 18+95.47 (STORM DRAIN STATIONING)
SPOKANE CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2449.98
I.E. (N) = 2447.45

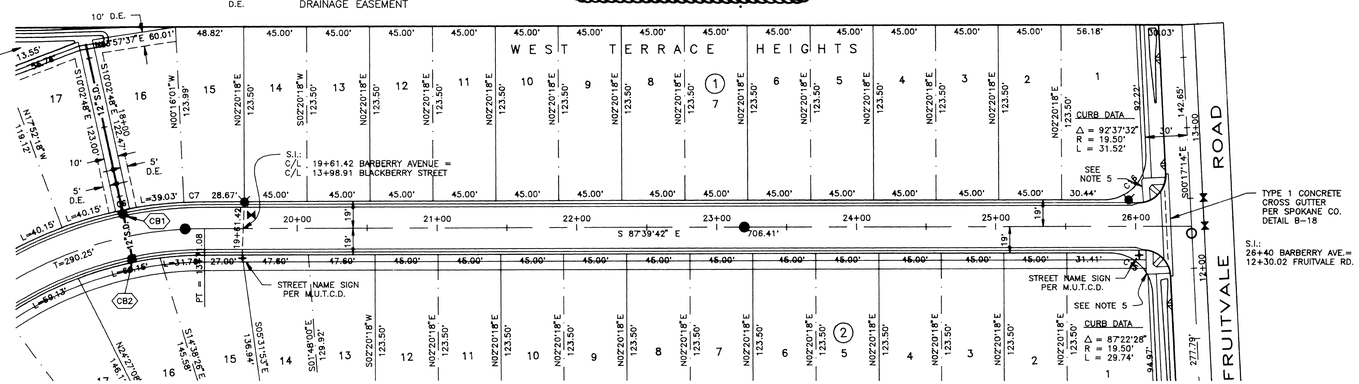
LEGEND

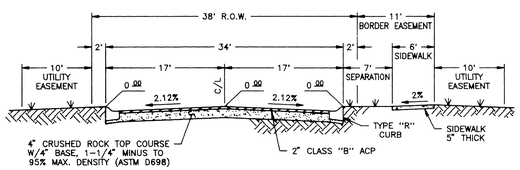
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED CATCH BASIN
- 12"S.D. — PROPOSED STORM DRAIN, DIA. AS SHOWN
- D.E. — DRAINAGE EASEMENT

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 12-3-1998
ACCEPTANCE EXPIRES: 12-3-2001
PROJECT LANE MILES PUBLIC: 0.31
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION [illegible]
RECORD DRAWINGS [illegible] PRIOR TO COUNTY ACCEPTANCE [illegible] OF THE ROADS AND DRAINAGE [illegible] OFFICE.
PERMIT REQUIRED [illegible]
NOTIFY PERMIT ISSUER [illegible] PRIOR TO CONSTRUCTION

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.





TYPICAL STREET SECTION (BARBERRY AVENUE)
NOT TO SCALE

0 25 50 100
SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354

DEVELOPER'S APPROVAL — DATE 1-12-98

CALL BEFORE YOU DIG 456–8000

6XX3-ST2.DWG XREF: 6XX3BASE.DWG

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624–9351

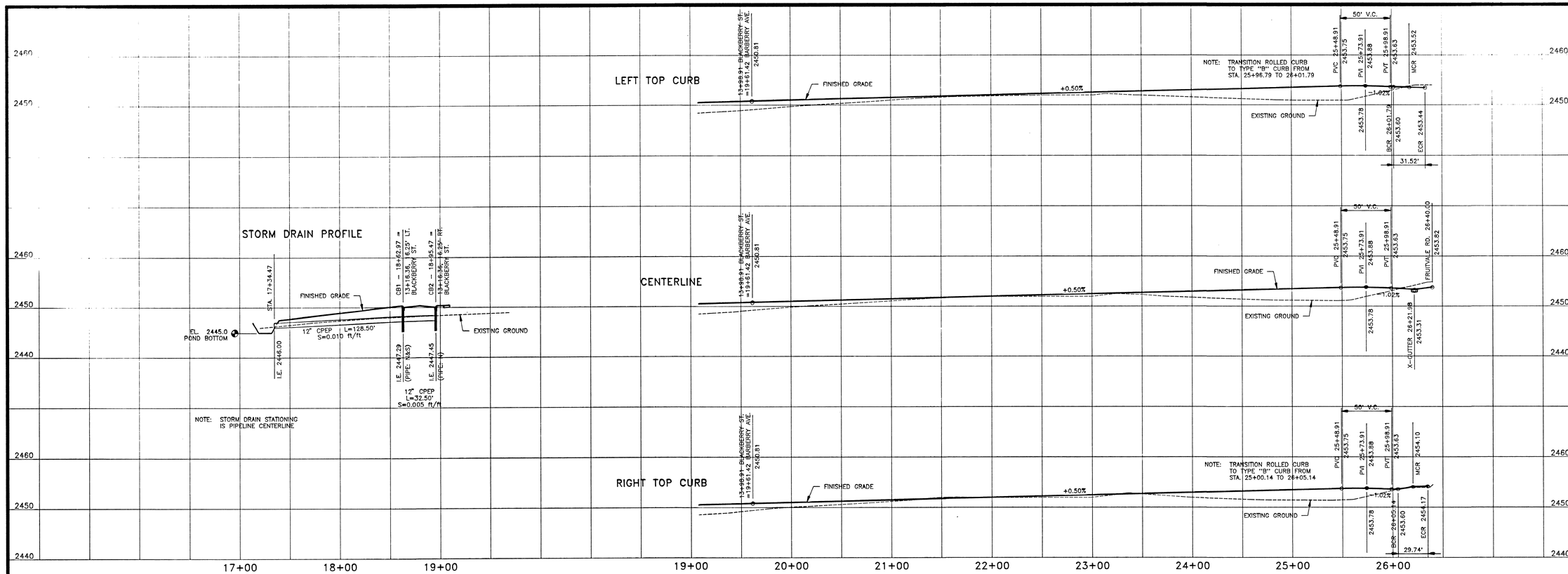
JOEL G. LEE — STATE OF WASHINGTON — 30891 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
BARBERRY AVE. & STORM DRAIN
STREET PLAN AND PROFILE

SHEET 5 OF 10

96–003.2



CONSTRUCTION NOTES:

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10. CATCH BASIN GRATE ELEVATION IS THE FRONT EDGE OF FRAME.

CB1 STA. 18+62.97 (STORM DRAIN STATIONING)
SPOKANE CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2449.98
I.E. (N&S) = 2447.29

CB2 STA. 18+95.47 (STORM DRAIN STATIONING)
SPOKANE CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2449.98
I.E. (N) = 2447.45

LEGEND

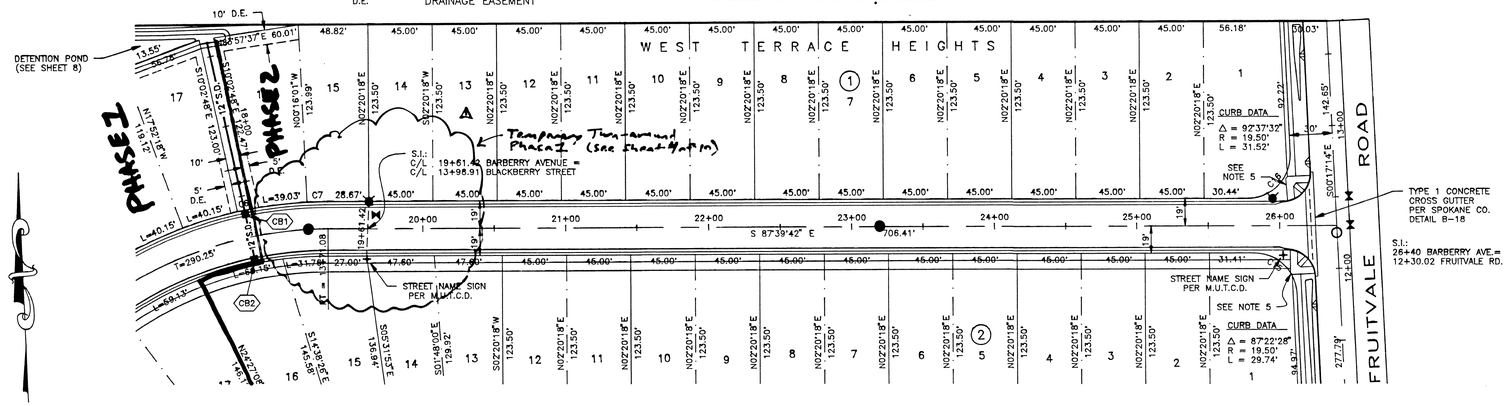
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED CATCH BASIN
- 12"*S.D. — PROPOSED STORM DRAIN, DIA. AS SHOWN
- D.E. DRAINAGE EASEMENT

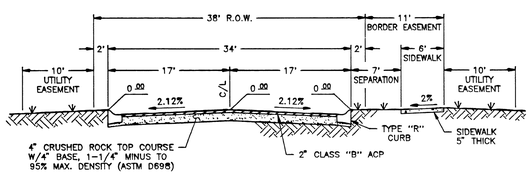
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P1791
DATE ACCEPTED 10-5-1998
ACCEPTANCE EXPIRES 10-5-2001
PROJECT LANE MILES PUBLIC 0.11
PROJECT LANE MILES PRIVATE 0
PERMIT REQUIRED
NOTIFY PUBLIC WORKS DEPARTMENT 2 WORKING DAYS PRIOR TO CONSTRUCTION

Phasing SAP 100/68

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.





TYPICAL STREET SECTION (BARBERRY AVENUE)
NOT TO SCALE

SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USC&GS BENCH MARK NO. 354

DEVELOPER'S APPROVAL — DATE 1-12-98

CALL BEFORE YOU DIG 456–8000

6XX3–ST2.DWG XREF: 6XX3BASE.DWG

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624–9351

JOEL G. LEE — STATE OF WASHINGTON — 30891 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

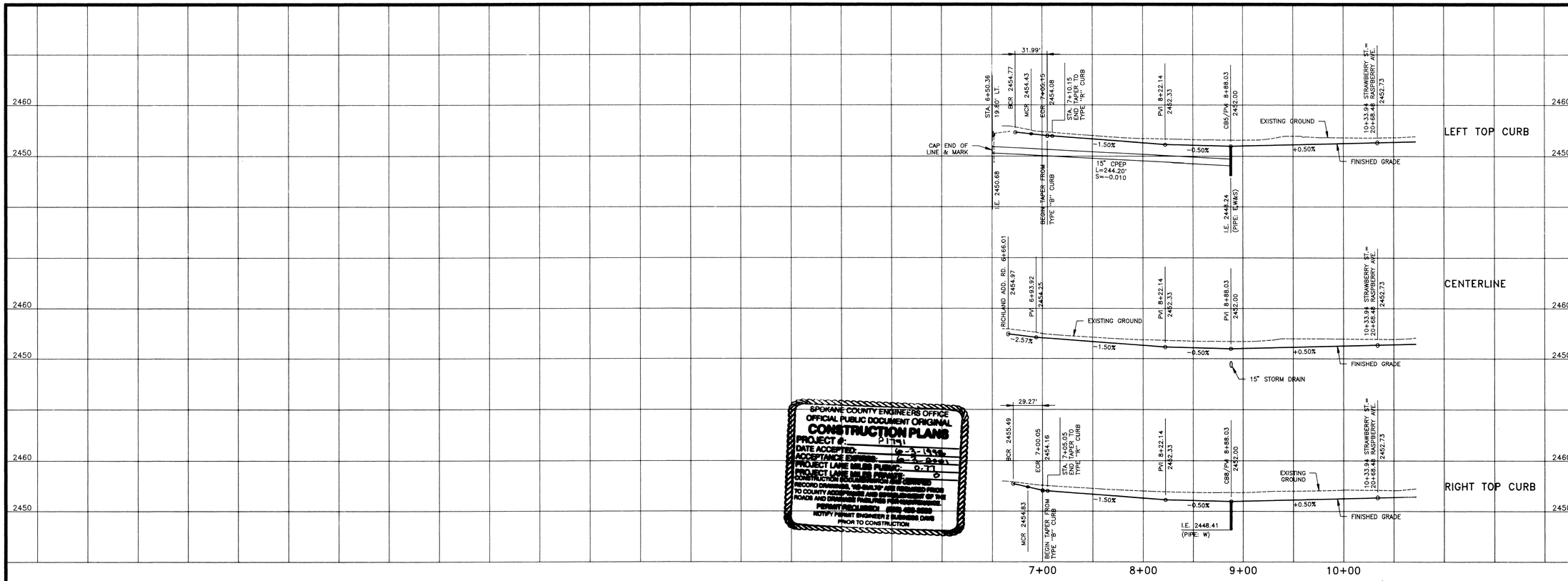
Revised Water-Plating

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

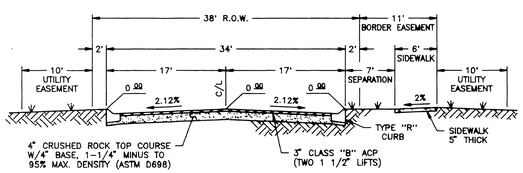
WEST TERRACE HEIGHTS
BARBERRY AVE. & STORM DRAIN
STREET PLAN AND PROFILE

SHEET 5 OF 10

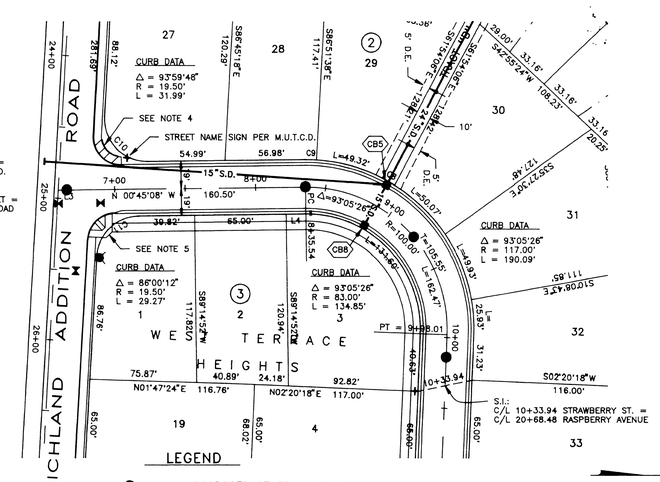
96–003.2



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1791
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES: 6-3-2001
PROJECT LANE MILES PUBLIC: 0.71
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION SUPERVISION: ENGINEER
RECORD DRAWINGS, AS-BUILT AREA REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT RESUMBER: (509) 456-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



TYPICAL STREET SECTION (STRAWBERRY STREET)
NOT TO SCALE



LEGEND

- PROPOSED SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED CATCH BASIN
- 15"S.D. — PROPOSED STORM DRAIN, DIA. AS SHOWN
- D.E. — DRAINAGE EASEMENT
- + STREET NAME SIGN PER M.U.T.C.D.

CONSTRUCTION NOTES:

1. ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.
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9. ALL STORM DRAIN SHALL BE CPEP, ADS N-12 CORRUGATED PIPE.

CB5 — 8+88.03, 16.25' LT. SEE SHEET 7

CB6 — 8+88.03, 16.25' RT. SEE SHEET 7

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USCA&GS BENCH MARK NO. 354

ENGINEER'S STATEMENT:

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Richard J. Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

STATE OF WASHINGTON — JOHN G. LEE — 30891 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

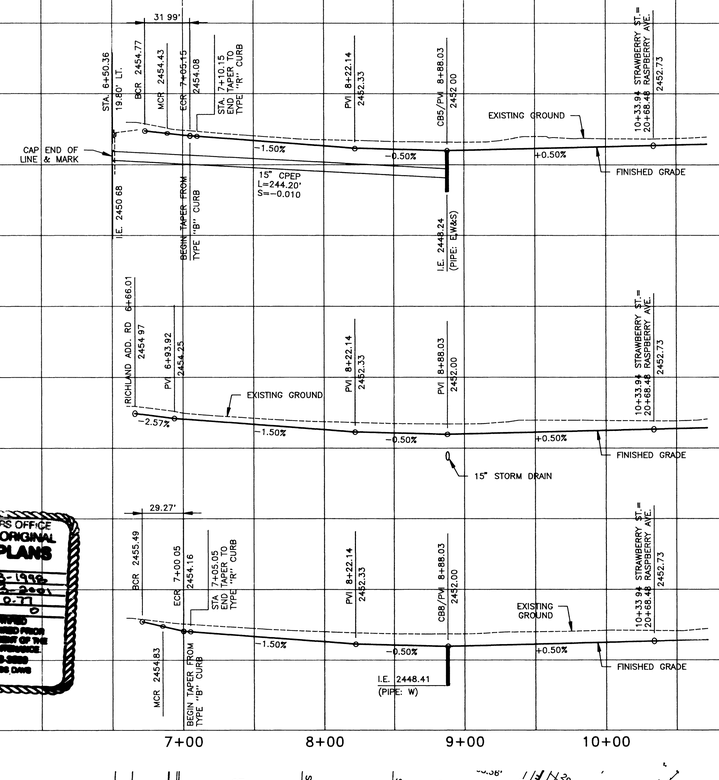
DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

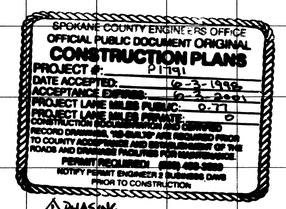
WEST TERRACE HEIGHTS
STRAWBERRY STREET
STREET PLAN AND PROFILE

SHEET 6 OF 10

96-003.2

6XA3-ST3.DWG XREF: 6XA3BASE.DWG





PHASING
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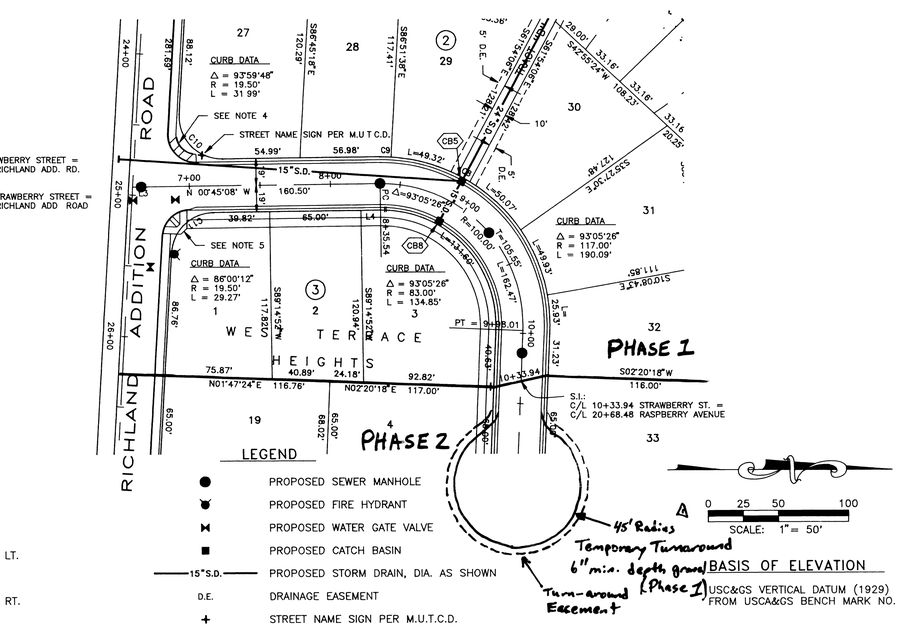

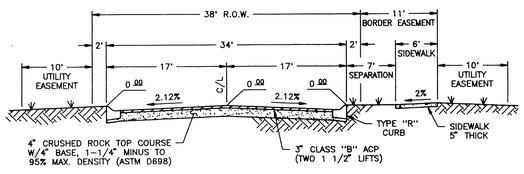

TYPICAL STREET SECTION (STRAWBERRY STREET)
NOT TO SCALE

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	PROPOSED FIRE HYDRANT
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—15"S.D.—	PROPOSED STORM DRAIN, DIA. AS SHOWN
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Richard J. Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929) FROM USC&GS BENCH MARK NO. 354

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S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE — STATE OF WASHINGTON — 30891 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

Revised 4/5/00 — Turnaround and phasing added

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
STRAWBERRY STREET
STREET PLAN AND PROFILE

SHEET 6 OF 10

96-003.2

6XX3-ST3.DWG XREF: 6XX3BASE.DWG

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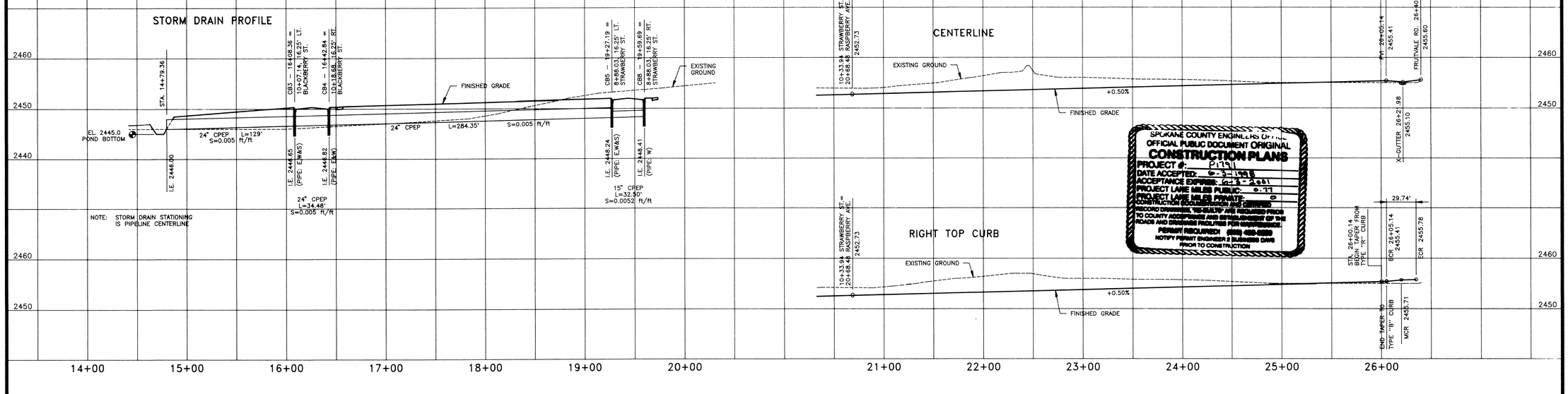

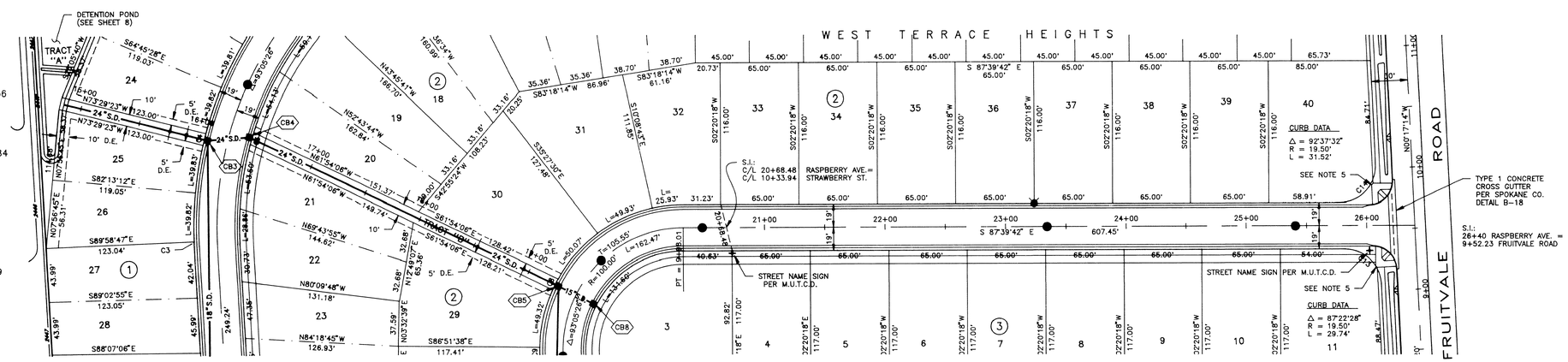

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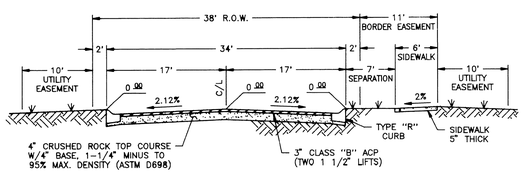

TYPICAL STREET SECTION (RASPBERRY AVENUE)
NOT TO SCALE

LEGEND

- PROPOSED SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER GATE VALVE
- PROPOSED CATCH BASIN
- 24"S.D. — PROPOSED STORM DRAIN, DIA. AS SHOWN
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Richard J Gaydos 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 6-5-1998
ACCEPTANCE EXPIRES: 6-5-2001
PROJECT LANE MILES PUBLIC: 0.77
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, THEY MUST BE SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 456-8888
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE STATE OF WASHINGTON 30891 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 01/05/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
RASPBERRY AVE. & STORM DRAIN
STREET PLAN AND PROFILE

SHEET 7 OF 10

96-003.2

6XX3-ST4.DWG XREF: 6XX3BASE.DWG

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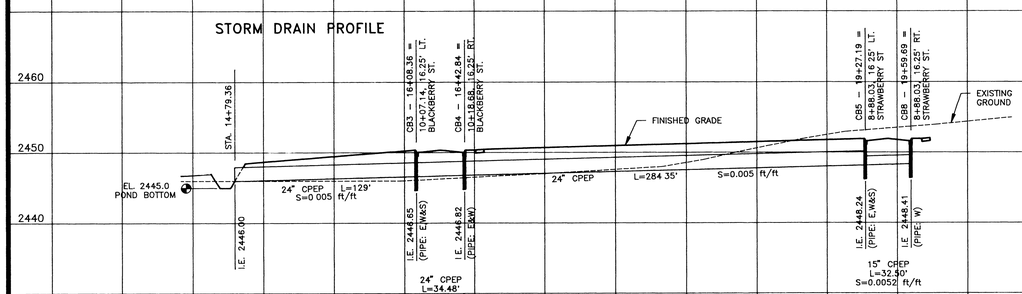
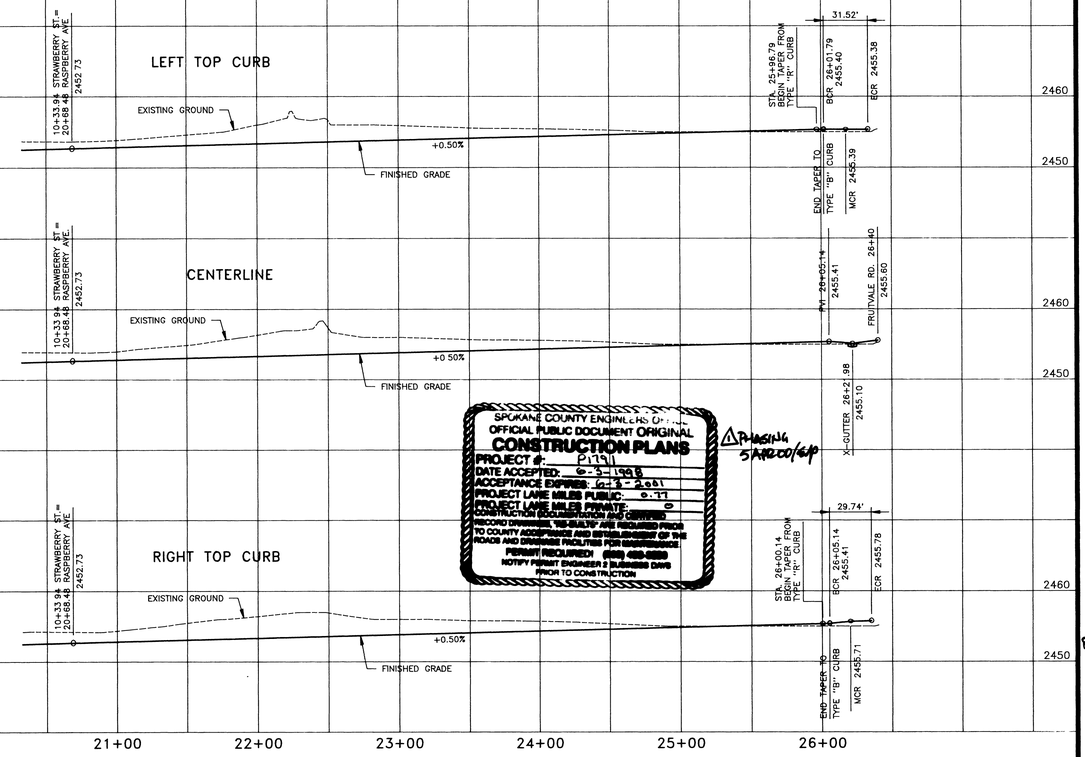
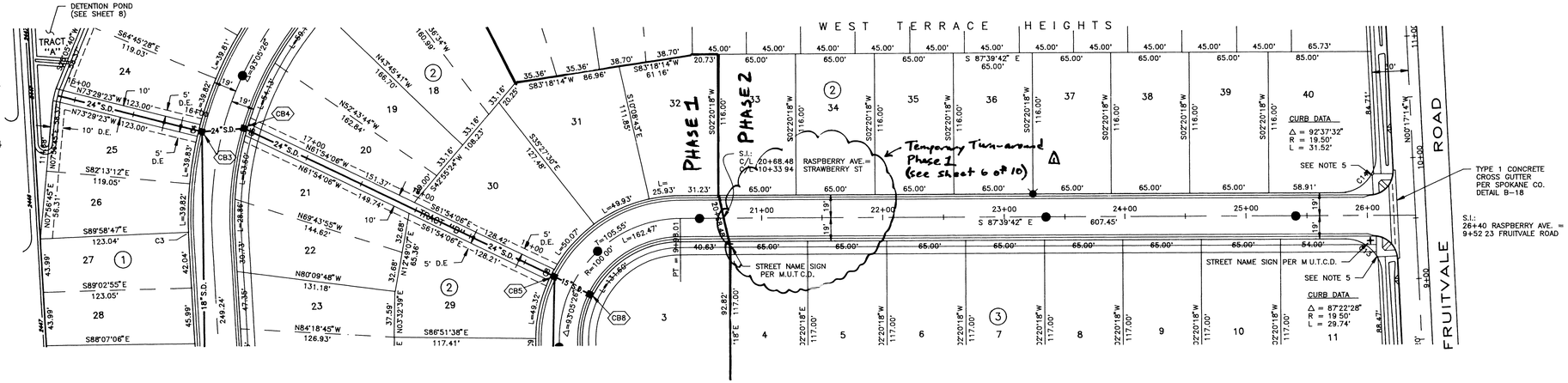




SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES: 6-3-2001
PROJECT LANE MILES PUBLIC: 0.77
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTS MAY BE CHANGED, RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED (509) 456-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

Phasing 5/4/2000/GP



CB3 STA. 10+07.14, 16.25' LT. (BLACKBERRY)=16+08.36
SPO. CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2449.95
I.E. = 2446.65 (E,W&S)

CB4 STA. 10+18.68, 16.25' RT. (BLACKBERRY)=16+42.84
SPO. CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2449.95
I.E. = 2446.82 (E&W)

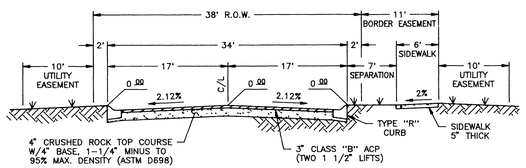
CB5 STA. 8+88.03, 16.25 LT. (STRAWBERRY)=19+27.19
SPO. CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2451.58
I.E. = 2448.24 (E,W&S)

CB8 STA. 8+88.03, 16.25' RT. (STRAWBERRY)=19+59.69
SPO. CO. TYPE 1 CATCH BASIN
W/TYPE 5 METAL FRAME & GRATE
GRATE ELEV. = 2451.58
I.E. = 2448.41 (W)

0 25 50 100
SCALE: 1" = 50'

BASIS OF ELEVATION

USC&GS VERTICAL DATUM (1929)
FROM USC&GS BENCH MARK NO. 354



TYPICAL STREET SECTION (RASPBERRY AVENUE)
NOT TO SCALE

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Richard J Brayton 1-12-98
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6XX3-ST4.DWG XREF: 6XX3BASE.DWG

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S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
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EXPIRES 2-21-99
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Revised 4/5/00 - Phasing Δ

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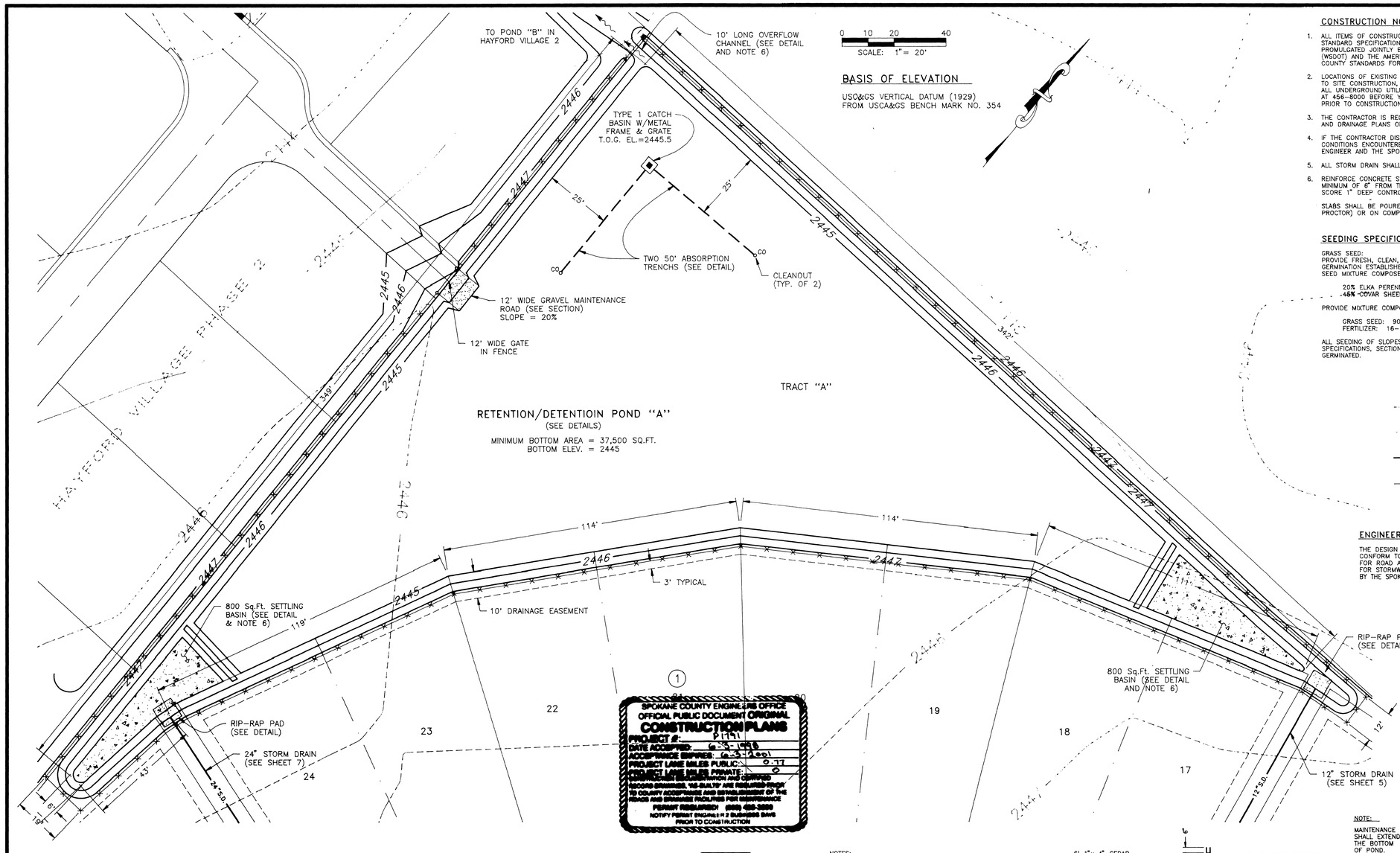
SHEET 7 OF 10

96-003.2



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5. ALL STORM DRAIN SHALL BE CPEP, ADS N-12 CORRUGATED PIPE.
6. REINFORCE CONCRETE SLABS WITH #3 REBAR ON 18" CENTERS. BARS SHALL BE A MINIMUM OF 6" FROM THE SLAB PERIMETER. REBAR SHALL BE PLACED AT MID-DEPTH. SCORE 1" DEEP CONTROL JOINTS 15' ON CENTER (EQUALLY SPACED).

   SLABS SHALL BE POURED ON NATIVE MATERIAL (COMPACTED TO 95% OF MODIFIED PROCTOR) OR ON COMPACTED GRAVEL.

SEEDING SPECIFICATIONS:

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

20% ELKA PERENNIAL RYE	20% DURAR HARD FESCUE
45% COVAR SHEEP FESCUE	15% RUEBENS CANADIAN BLUEGRASS

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

GRASS SEED: 90 LBS. PER ACRE
FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE WSDOT 1994 STANDARD SPECIFICATIONS, SECTION 8-01. CONTRACTOR TO IRRIGATE SEEDED AREAS UNTIL SEED HAS GERMINATED.

LEGEND

--2444--	EXISTING CONTOUR, 1' INTERVAL
--2445--	EXISTING CONTOUR, 5' INTERVAL
—— 2445 ——	PROPOSED CONTOUR
—×—×—×—	PROPOSED 6' FENCE

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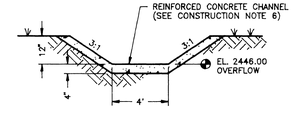
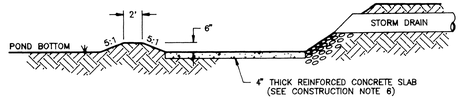
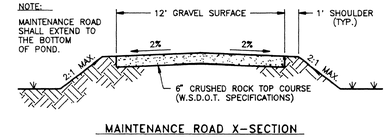


OVERFLOW CHANNEL
NOT TO SCALE



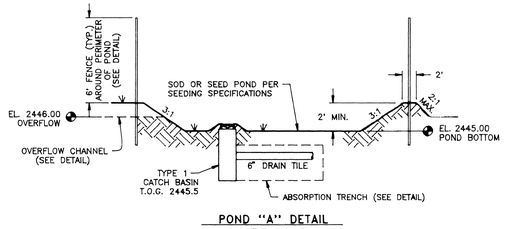
SETTLING BASIN SECTION
NOT TO SCALE



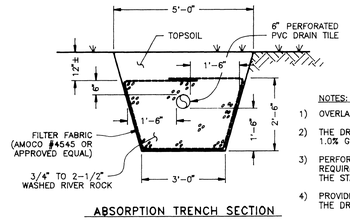
MAINTENANCE ROAD X-SECTION
NOT TO SCALE

DETENTION/RETENTION POND NOTES:

1) BERMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2-03 OF THE W.S.D.O.T. STANDARD SPECIFICATIONS. MATERIAL SHALL BE CLEAN NATIVE MATERIAL, VOID OF ALL DEBRIS, WOOD, METAL, GLASS, AND OTHER DELETERIOUS MATERIAL.
2) THE SOIL IN THE BOTTOM OF THE POND SHALL HAVE A MINIMUM PERMEABILITY RATE OF 0.36'/HR. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE CONSTRUCTED POND, WITH REGARD TO INFILTRATION, MEETS THE INTENDED DESIGN. CONTRACTOR SHALL KEEP THE GEOTECHNICAL ENGINEER INFORMED OF THE CONSTRUCTION SCHEDULE.



POND "A" DETAIL
NOT TO SCALE



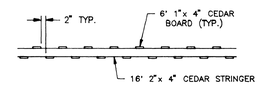
ABSORPTION TRENCH SECTION
NOT TO SCALE

NOTES:

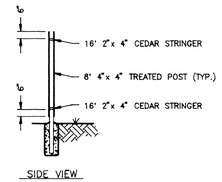
1) OVERLAP FABRIC A MINIMUM OF 1'-0"
2) THE DRAIN IS TO BE LAID ON A 0.5% TO 1.0% GRADE AWAY FROM THE CATCHBASIN.
3) PERFORATED PVC PIPE SHALL MEET THE REQUIREMENTS OF SECTION 9-05.2(6) OF THE STANDARD SPECIFICATIONS.
4) PROVIDE CLEANOUTS AT THE ENDS OF THE DRAIN PIPE.

NOTES:

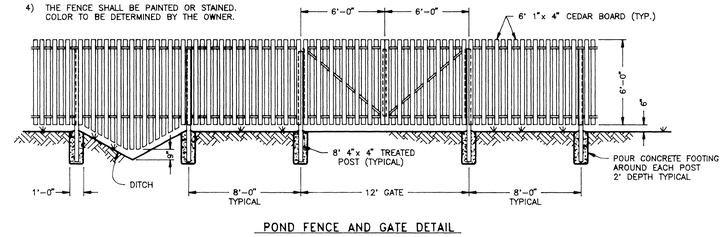
1) GATE FRAME TO BE CONSTRUCTED FROM 2"x 4" CEDAR. THREE (3) GATE HINGES SHALL BE PLACED TO SUPPORT GATE FROM SIDE. A GATE LOCK AND HASP SHALL BE PROVIDED TO ALLOW PADLOCKING OF GATE.
2) WHERE FENCE CROSSES A DITCH, FENCE SHALL BE EXTENDED TO 6" ABOVE THE DITCH SLOPES. THERE SHALL BE A 9" SPACE AT THE BOTTOM OF THE DITCH.
3) FENCE ALONG THE NORTH END OF THE POND SHALL BE SOLID LIKE THE EXISTING FENCE AT HAYFORD VILLAGE.
4) THE FENCE SHALL BE PAINTED OR STAINED. COLOR TO BE DETERMINED BY THE OWNER.



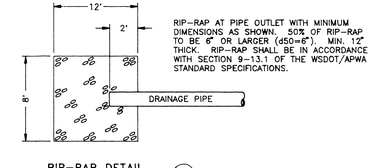
TOP VIEW DETAIL



SIDE VIEW



POND FENCE AND GATE DETAIL
NOT TO SCALE



RIP-RAP AT PIPE OUTLET WITH MINIMUM DIMENSIONS AS SHOWN. 50% OF RIP-RAP TO BE 6" OR LARGER (d50=6"). MIN. 12" THICK. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 9-13.1 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.

RIP-RAP DETAIL (RR)
NOT TO SCALE

Richard J. Boyden 4-10-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
3089
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

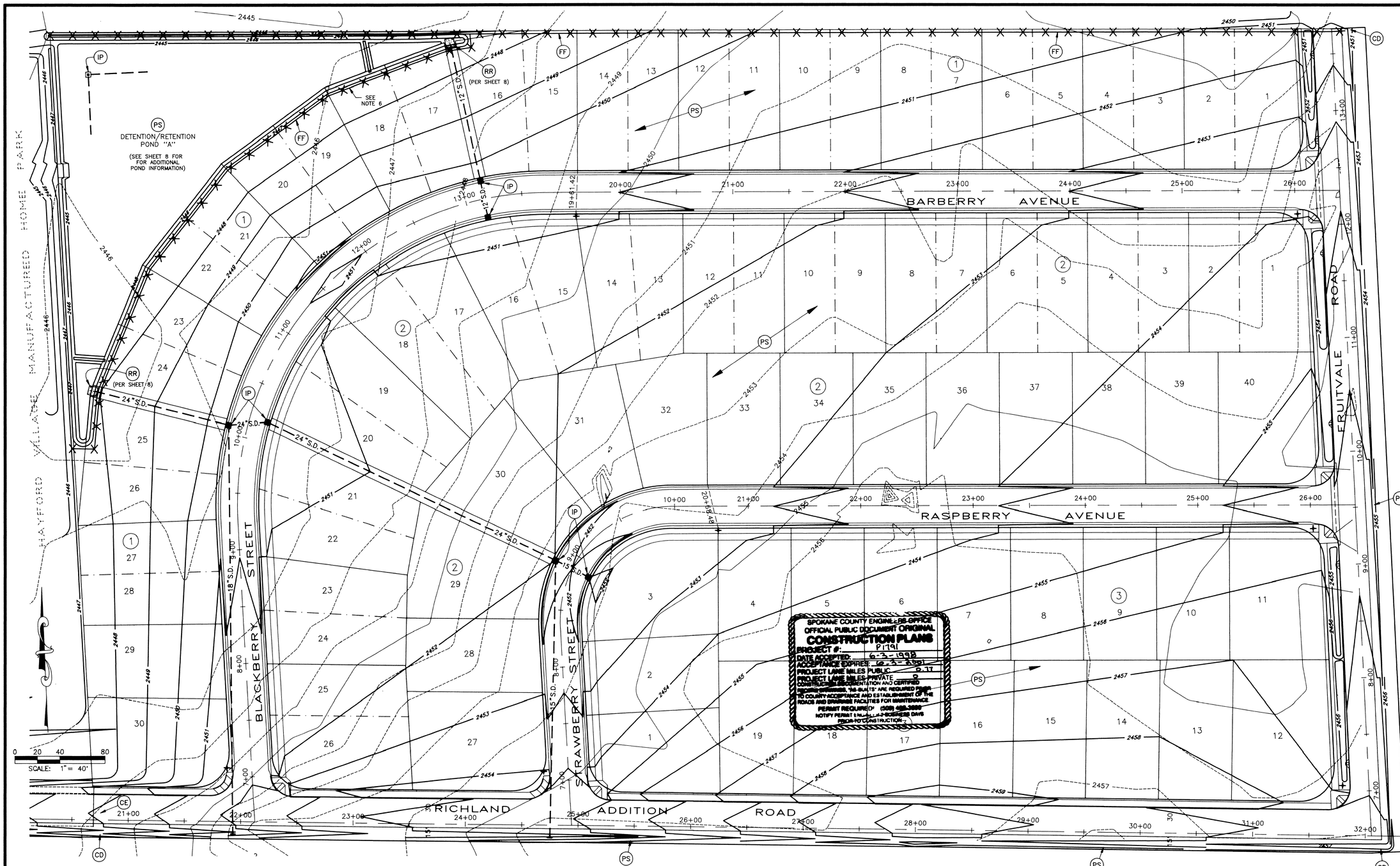
DRAWN BY: JKO
CHECKED BY: JGL
DATE: 04/08/98
SCALE: AS SHOWN

WEST TERRACE HEIGHTS RETENTION/DETENTION POND "A" AND DETAILS

SHEET 8 OF 10

96-003.2

6X23-ST7.DWG XREF: 6X23BASE.DWG



LEGEND

2452	EXISTING CONTOUR (1' INTERVAL)	PS	PERMANENT SEEDING AND PLANTING
2450	EXISTING CONTOUR (5' INTERVAL)	CE	STABILIZED CONSTRUCTION ENTRANCE
2454	PROPOSED CONTOUR	CD	CHECK DAMS
	STORM DRAIN PIPE	RR	RIP-RAP
	FILTER FENCE	IP	INLET PROTECTION
FF	FILTER FENCE		

CONSTRUCTION NOTES:

1) EROSION/SEDIMENT CONTROL (ESC) HAS BEEN REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR 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) REFER TO SHEET 10 FOR EROSION/SEDIMENT CONTROL NOTES AND DETAILS.

3) THE CONTRACTOR SHALL MAINTAIN THE ESC FACILITIES DURING WET WEATHER CONDITIONS TO ASSURE THAT THE FACILITIES ARE WORKING AS PLANNED AND THAT EROSION OF SOILS IS MINIMIZED. THE CONTRACTOR SHALL USE MEASURES AS NECESSARY DURING WET WEATHER CONDITIONS TO MINIMIZE TRACKING OF SOILS ONTO EXISTING STREETS. THE ESC MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES.

4) THE EROSION CONTROL PLANS AND SPECIFICATIONS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE ACTUAL SITE CONDITIONS AND FACTORS WHICH MAY CONTRIBUTE TO SOIL EROSION. THE CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL MEASURES WHICH ARE NECESSARY TO ALLEVIATE THE POTENTIAL FOR SOIL EROSION.

5) THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES (CE) AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.

6) SILT FENCE BETWEEN POND "A" AND LOTS 16 THRU 25 SHALL REMAIN IN PLACE UNTIL THESE LOTS HAVE BEEN FINAL GRADED AND VEGETATION ESTABLISHED.

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Michael J. Boyden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

6XX3-ST9.DWG XREF: 6XX3BASE.DWG

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
1/12/98
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 12/29/97
SCALE: AS SHOWN

WEST TERRACE HEIGHTS

GRADING, EROSION & SEDIMENT CONTROL PLAN

SHEET 9 OF 10

96-003.2

II-5.6.1 BMP E2.10: STABILIZED CONSTRUCTION ENTRANCE AND TIRE WASH

CODE: (CE)

DEFINITION:

A TEMPORARY STONE-STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE:

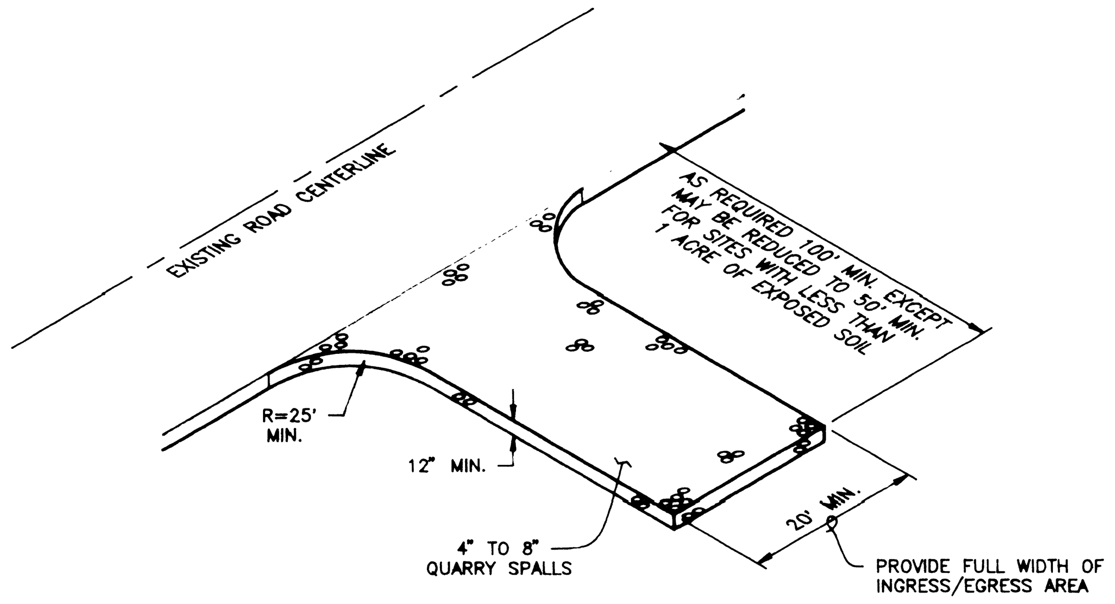
TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF BY CONSTRUCTING A STABILIZED PAD OF ROCK SPALLS AT ENTRANCES TO CONSTRUCTION SITES AND WASHING OF TIRES DURING EGRESS.

CONDITIONS WHERE PRACTICE APPLIES:

- WHENEVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREAS.

MAINTENANCE:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING AND FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



STABILIZED CONSTRUCTION ENTRANCE AND TIRE WASH (CE)

NOT TO SCALE

II-5.4.3 BMP E1.35: PERMANENT SEEDING AND PLANTING

CODE: (PS) SYMBOL: ◄—(PS)—►

DEFINITION:

THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS.

PURPOSE:

TO ESTABLISH PERMANENT VEGETATION (SUCH AS GRASSES, LEGUMES AND TREES AND SHRUBS) AS RAPIDLY AS POSSIBLE TO PREVENT SOIL EROSION BY WIND OR WATER, AND TO IMPROVE WILDLIFE HABITAT AND SITE AESTHETICS.

TO PROVIDE POLLUTANT FILTRATION (BIOFILTRATION) IN VEGETATION-LINED CHANNELS AND TO ESTABLISH CONSTRUCTED WETLANDS AS REQUIRED (SEE BMP RW.10 IN CHAPTER III-4 AND RV.05 IN CHAPTER III-6).

CONDITIONS WHERE PRACTICE APPLIES:

- GRADED, FINAL GRADED OR CLEARED AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL.
- AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.
- VEGETATION-LINED CHANNELS.
- RETENTION OR DETENTION PONDS AS REQUIRED.

GRASS SEED:

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

20% ELKA PERENNIAL RYE	20% DURAR HARD FESCUE
45% COVAR SHEEP FESCUE	15% RUEBENS CANADIAN BLUEGRASS

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

GRASS SEED: 90 LBS. PER ACRE
FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING SHALL BE DONE IN ACCORDANCE WITH THE WSDOT 1994 STANDARD SPECIFICATIONS, SECTION 8-01. THE SEEDING DATES ALLOWED IN SECTION 8-01.3(7) SHALL BE AMENDED TO INCLUDE MARCH 1 TO MAY 15. CONTRACTOR TO IRRIGATE SEEDED AREAS UNTIL SEED HAS GERMINATED.

PERMANENT SEEDING (PS)

6XX3ST10.DWG

II-5.8.1 BMP E3.10: FILTER FENCE

CODE: (FF) SYMBOL: —X—X—X—

PURPOSE:

1) TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE.

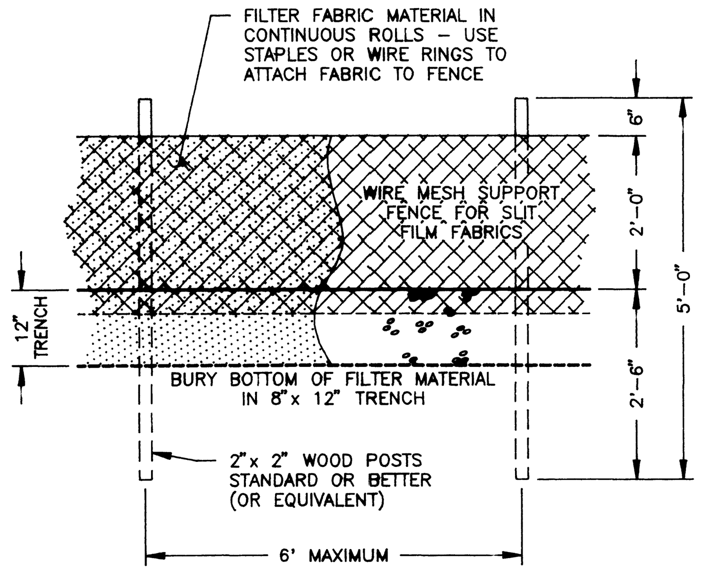
2) TO DECREASE THE VELOCITY OF SHEET FLOWS.

CONDITIONS WHERE PRACTICE APPLIES:

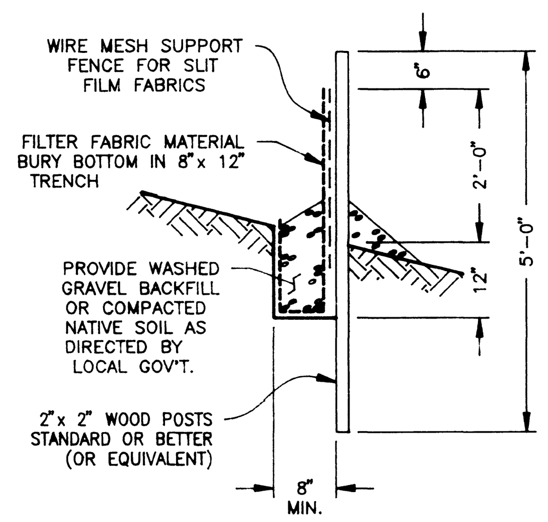
- FILTER FENCES MUST BE PROVIDED JUST UPSTREAM OF THE POINT(S) OF DISCHARGE OF RUNOFF FROM A SITE, BEFORE THE FLOW BECOMES CONCENTRATED. THEY MAY ALSO BE REQUIRED:
  1) BELOW DISTURBED AREAS WHERE RUNOFF MAY OCCUR IN THE FORM OF SHEET AND RILL EROSION; WHEREVER RUNOFF HAS THE POTENTIAL TO IMPACT DOWNSTREAM RESOURCES.
  2) PERPENDICULAR TO MINOR SWALES OR DITCH LINES FOR CONTRIBUTING DRAINAGE AREAS UP TO ONE ACRE IN SIZE.

OPTION "1" DEFINITION:

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE FILTER FENCE IS CONSTRUCTED OF STAKES AND SYNTHETIC FILTER FABRIC WITH A RIGID WIRE FENCE BACKING WHERE NECESSARY FOR SUPPORT.



FRONT VIEW
(OPTION "1")



END VIEW
(OPTION "1")

OPTION "1" STANDARD NOTES:

A) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL, CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.

B) POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES (WHERE PHYSICALLY POSSIBLE).

C) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR.

D) WHEN SLIT FILM FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

E) SLIT FILM FILTER FABRIC SHALL BE WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES. OTHER TYPES OF FABRIC MAY BE STAPLED TO THE FENCE.

F) WHEN EXTRA-STRENGTH OR MONOFILAMENT FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE "E" APPLYING. EXTRA CARE SHOULD BE USED WHEN JOINING OR OVERLAPPING THESE STIFFER FABRICS.

G) LOCAL GOVERNMENTS MAY SPECIFY THE USE OF PROPERLY COMPACTED NATIVE MATERIAL. IN MANY INSTANCES, THIS MAY BE THE PREFERRED ALTERNATIVE BECAUSE THE SOIL FORMS A MORE CONTINUOUS CONTACT WITH THE TRENCH BELOW.

OPTION "2" DEFINITION:

A TEMPORARY SEDIMENT BARRIER CONSISTING OF STRAW BALES PLACED END TO END. THE FENCE IS CONSTRUCTED BY DIGGING A 6" DEEP TRENCH AND PLACING THE STRAW BALES IN THE TRENCH END TO END FOR THE LENGTH OF THE REQUIRED BARRIER.

OPTION "2" STANDARD NOTES:

A) STRAW BALES SHALL BE 3-STRING BALES WITH MINIMUM DIMENSIONS OF 22"x 16"x 48".

B) A TRENCH SHALL BE EXCAVATED TO A DEPTH OF 6" ALONG THE LENGTH OF THE FENCE. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR. THE STRAW BALES SHALL BE PLACED IN THE TRENCH. THE BALE SHALL BE PLACED ON THE NARROW SIDE SO THAT THE 22" DIMENSION IS VERTICAL. THE BOTTOM 6" SHALL BE BACKFILLED, LEAVING 16" EXTENDING OUT OF THE GROUND.

C) THE BALES SHALL BE PLACED AS CLOSE TOGETHER AS POSSIBLE SO THAT THERE ARE NO GAPS BETWEEN THE BALES.

FILTER FENCE (FF)

NOT TO SCALE

SP... COUNTY ENGINEERS OFFICE
OF... AL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1791
DATE ACCEPTED: 6-3-1998
ACCEPTANCE EXPIRES 6-3-2001
PROJECT LANE MILES PUBLIC 0.77
PROJECT LANE MILES PRIVATE 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS (AS BUILTS) ARE REQUIRED PRIOR TO CO... ANCE AND ESTABLISHMENT OF THE ROAD... FOR MAINTENANCE
... 456-3600
NOTIFY ... SS DAYS
PRIOR ...

II-5.7.11 BMP E2.60: CHECK DAMS

CODE: (CD)

DEFINITION:

SMALL DAMS CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH.

PURPOSE:

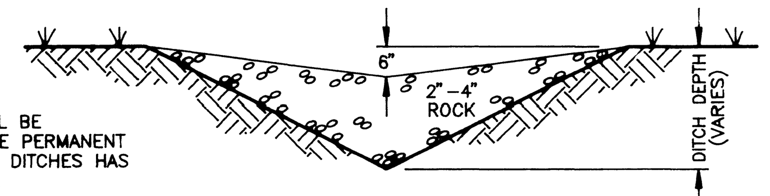
TO REDUCE THE VELOCITY OF CONCENTRATED FLOWS, REDUCING EROSION OF THE SWALE OR DITCH, AND TO SLOW WATER VELOCITY TO ALLOW RETENTION OF SEDIMENTS.

CONDITIONS WHERE PRACTICE APPLIES:

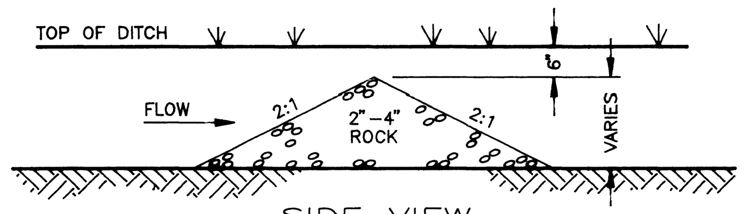
- WHERE TEMPORARY CHANNELS OR PERMANENT CHANNELS ARE NOT YET VEGETATED, CHANNEL LINING IS INFEASIBLE AND, THEREFORE, VELOCITY CHECKS ARE REQUIRED.
- IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS. NO CHECK DAMS MAY BE PLACED IN STREAMS (UNLESS APPROVED BY THE STATE DEPARTMENT OF FISHERIES OR WILDLIFE, AS APPROPRIATE). OTHER PERMITS MAY ALSO BE NECESSARY.
- CHECK DAMS IN ASSOCIATION WITH SUMPS WORK MORE EFFECTIVELY AT SLOWING FLOW AND RETAINING SEDIMENT.

NOTE:

CHECK DAMS SHALL BE REMOVED ONCE THE PERMANENT VEGETATION IN THE DITCHES HAS BEEN ESTABLISHED.



END VIEW



SIDE VIEW

CHECK DAM (CD)

NOT TO SCALE

INLET PROTECTION

CODE: (IP)

DEFINITION:

A TEMPORARY SEDIMENT BARRIER CONSISTING OF BARRIER MATERIAL PLACED IN THE CATCH BASINS.

PURPOSE:

TO INTERCEPT AND DETAIN SEDIMENT BEFORE IT ENTERS THE CATCH BASINS AND POND.

CONDITIONS WHERE PRACTICE APPLIES:

- FILTER MATERIAL MUST BE PROVIDED IN EACH CATCH BASIN:
  INSTALL A HI-FLOW SILTSACK, MADE BY ACF ENVIRONMENTAL, OR APPROVED EQUAL, IN EACH CATCH BASIN.
  THE SILTSACKS SHALL REMAIN IN THE CATCH BASINS UNTIL CONSTRUCTION OF ALL IMPROVEMENTS IS COMPLETE.
  INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE:

- EACH SILTSACK SHALL BE INSPECTED AFTER EACH MAJOR RAIN EVENT.
- IF THERE HAVE BEEN NO MAJOR EVENTS, EACH SILTSACK SHALL BE INSPECTED PERIODICALLY (EVERY 2 TO 3 WEEKS).
- WHEN THE SILTSACK HAS COLLECTED 1 TO 1-1/2 FEET OF SEDIMENT, THE SILTSACK SHALL BE EMPTIED.

INLET PROTECTION (IP)

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE 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.

Richard J. Bayden 1-12-98
DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 12/30/97
SCALE: AS SHOWN

WEST TERRACE HEIGHTS
EROSION & SEDIMENT CONTROL PLAN
DETAILS

SHEET
10 OF 10

96-003.2