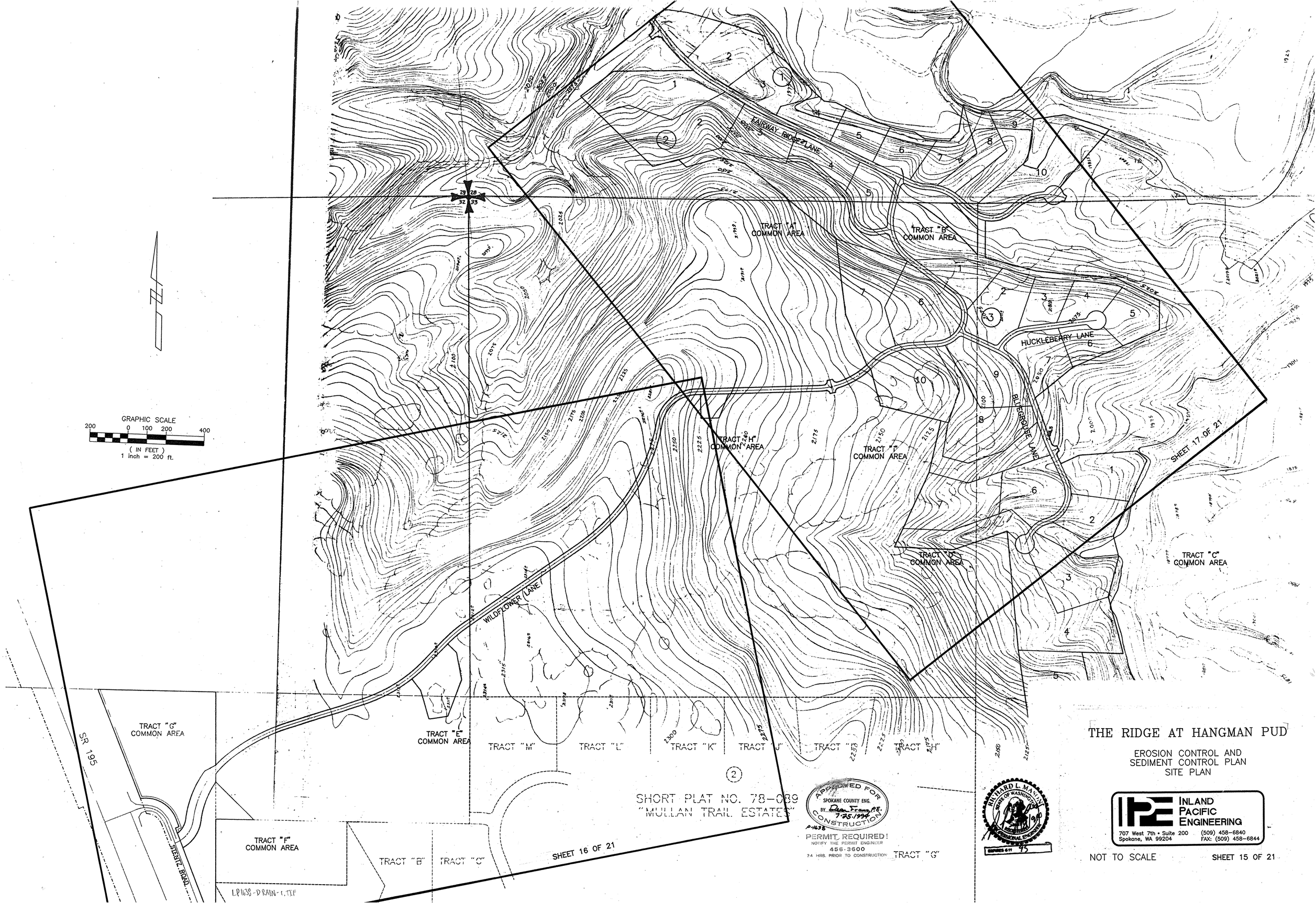


APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dan Frame, P.E. 7-25-1994
P-1638

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

RICHARD L. MASON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-11-95

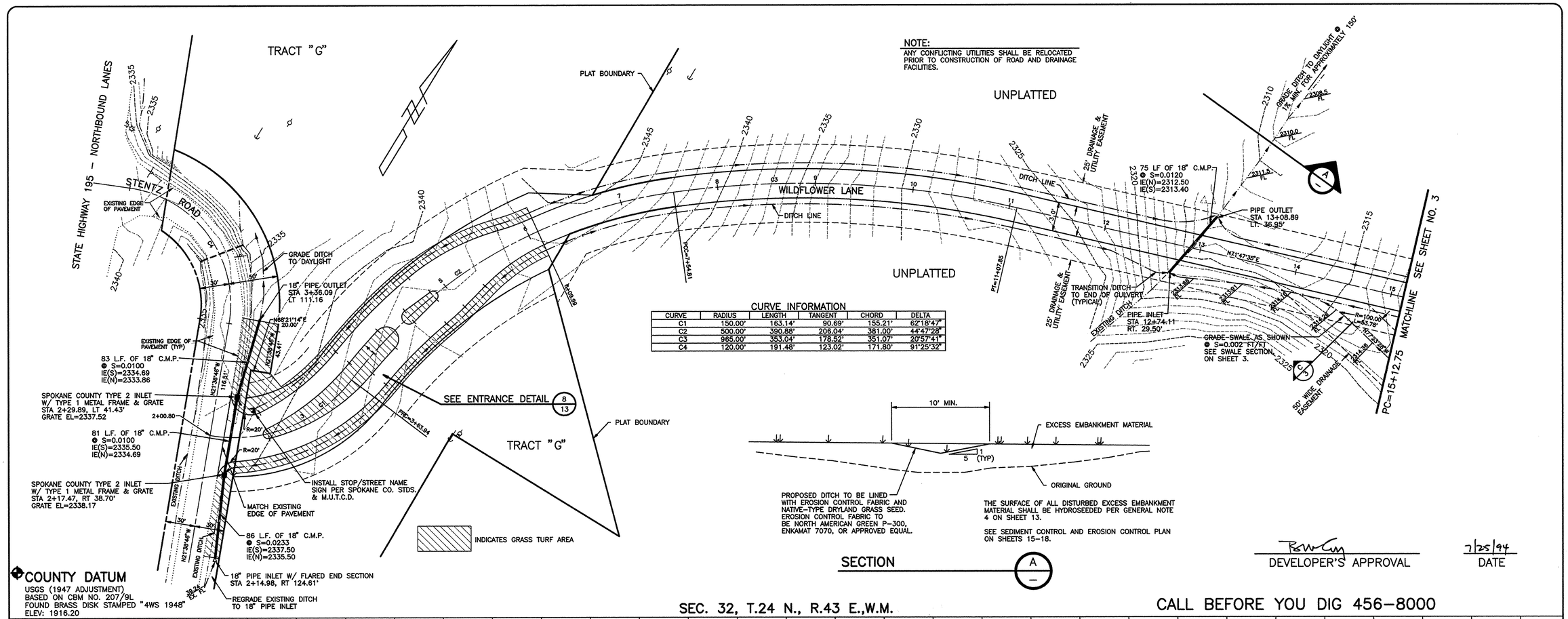
THE RIDGE AT HANGMAN PUD

EROSION CONTROL AND
SEDIMENT CONTROL PLAN
SITE PLAN

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

NOT TO SCALE

SHEET 15 OF 21



NOTE:
ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	150.00'	163.14'	90.69'	155.21'	62°18'47"
C2	500.00'	390.88'	206.04'	381.00'	44°47'28"
C3	965.00'	353.04'	178.52'	351.07'	20°57'41"
C4	120.00'	191.48'	123.02'	171.80'	91°25'32"

THE SURFACE OF ALL DISTURBED EXCESS EMBANKMENT MATERIAL SHALL BE HYDROSEEDED PER GENERAL NOTE 4 ON SHEET 13.

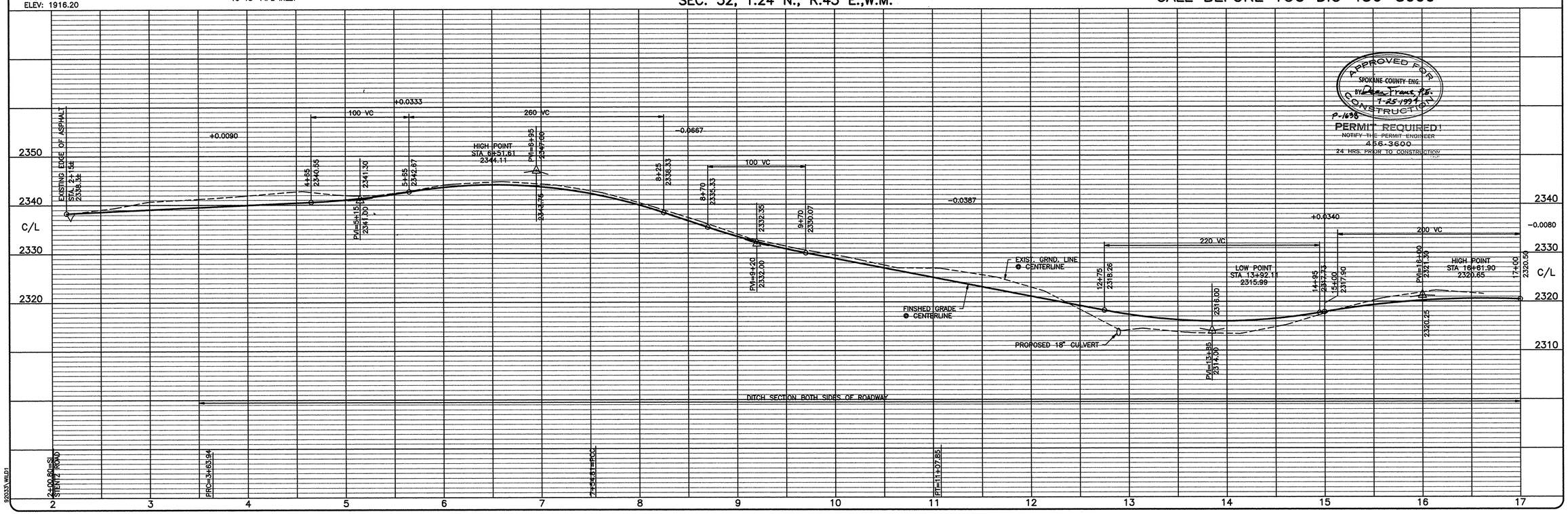
SEE SEDIMENT CONTROL AND EROSION CONTROL PLAN ON SHEETS 15–18.

SECTION A/–

DEVELOPER'S APPROVAL — DATE 7/25/94

SEC. 32, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456–8000



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dan Franz, P.E. 7-25-1994
P-1638
PERMIT REQUIRED!
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456-3600
24 HRS. PRIOR TO CONSTRUCTION

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

DATE 7/18/94 DWN. MWK RLM2 CHK. RLM APP. RLM

NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th - Suite 200 Spokane, Wa. 99204
(509) 458-6840 FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
WILDFLOWER LANE
STENTZ ROAD TO STA 15+12.75
P-1638

SHEET 2 OF 21
JOB NUMBER 92033

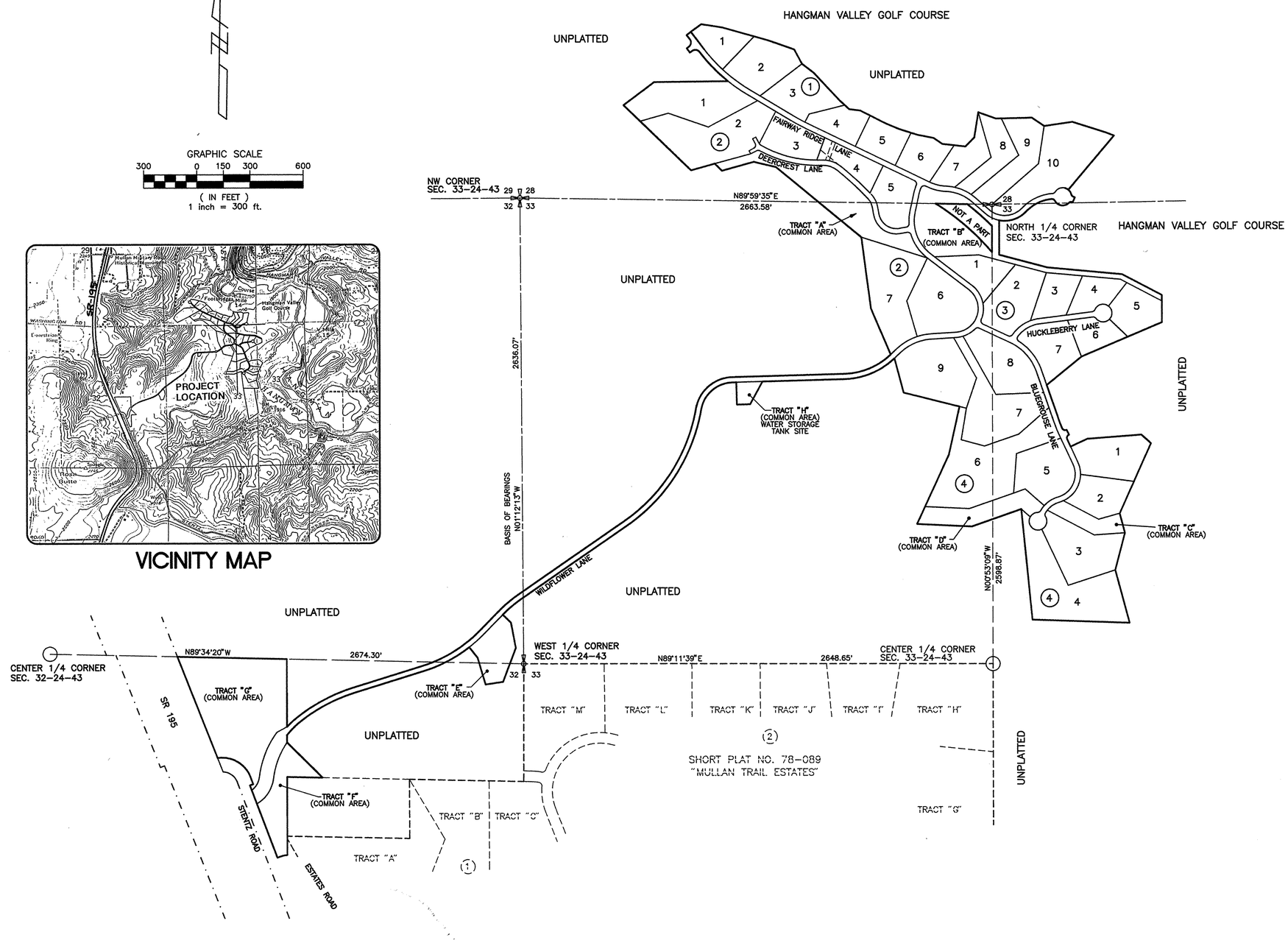
92033\WILD1

1P1638 PP-1.TIF

THE RIDGE AT HANGMAN P.U.D.

GRAPHIC SCALE
300 0 150 300 600
(IN FEET)
1 inch = 300 ft.

VICINITY MAP



INDEX — SHEET NO.

COVER SHEET 1
PLAN AND PROFILE .....
- WILDFLOWER LANE 2–6
- FAIRWAY RIDGE LANE 7–8
- BLUEGROUSE LANE 9
- HUCKLEBERRY LANE 10
- DEERCREST LANE 11

DETAILS 12–14
EROSION CONTROL PLAN 14–18
DRAINAGE SUPPLEMENT 19–21

SPOKANE COUNTY FIRE DISTRICT 3 & 8 APPROVAL

BY _____ DATE _____

BY _____ DATE _____

DEVELOPER'S APPROVAL — DATE 7/25/94

GENERAL NOTES:

1. THE TEMPORARY EROSION CONTROL FACILITIES SHOWN IN THE EROSION CONTROL PLAN (SHEETS 14–18) SHALL BE CONSTRUCTED AND IMPLEMENTED THROUGHOUT CONSTRUCTION. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL THE CONSTRUCTION AND LANDSCAPING WORK IS COMPLETE AND THE POTENTIAL FOR ONSITE EROSION HAS PASSED.
2. EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Franz, P.E. 7/25/1994
P-1638

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

RICHARD L. MANN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-11-95

THE RIDGE AT HANGMAN, PHASE I

LOCATED IN THE S 1/2 OF SECTION 28
& THE NW 1/4, NE 1/4 & SE 1/4 OF SECTION 33
& THE E 1/2 OF SECTION 32
ALL IN T.24 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 (509) 458-6840
Spokane, WA 99204 FAX: (509) 458-6844

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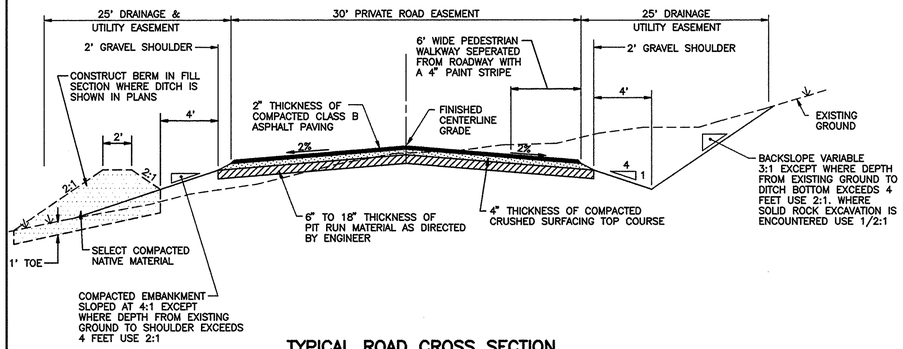
P-1638
SHEET 1 OF 21
JOB NUMBER 92033

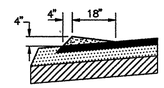
92033.COVER1

LP1638-RH-1.TIF

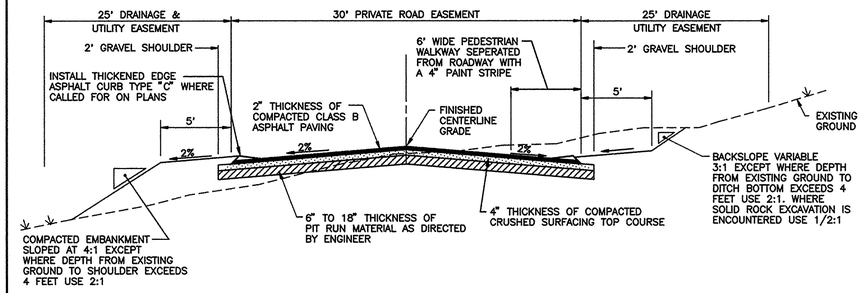


TYPICAL ROAD CROSS SECTION

WILDFLOWER LANE (STA 6+09.99 TO STA 30+00
FAIRWAY RIDGE LANE (STA 0+35.80 TO STA 14+75 & STA 17+58.25 TO STA 25+65.56)
BLUEGROUSE LANE (STA 34+45 TO STA 47+50)

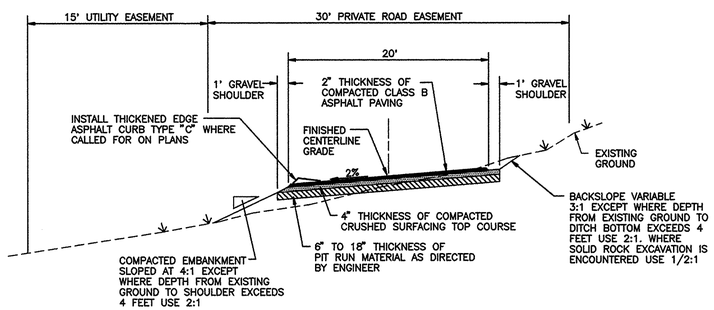


THICKENED EDGE SECTION
(ASPHALT CURB, TYPE "C")



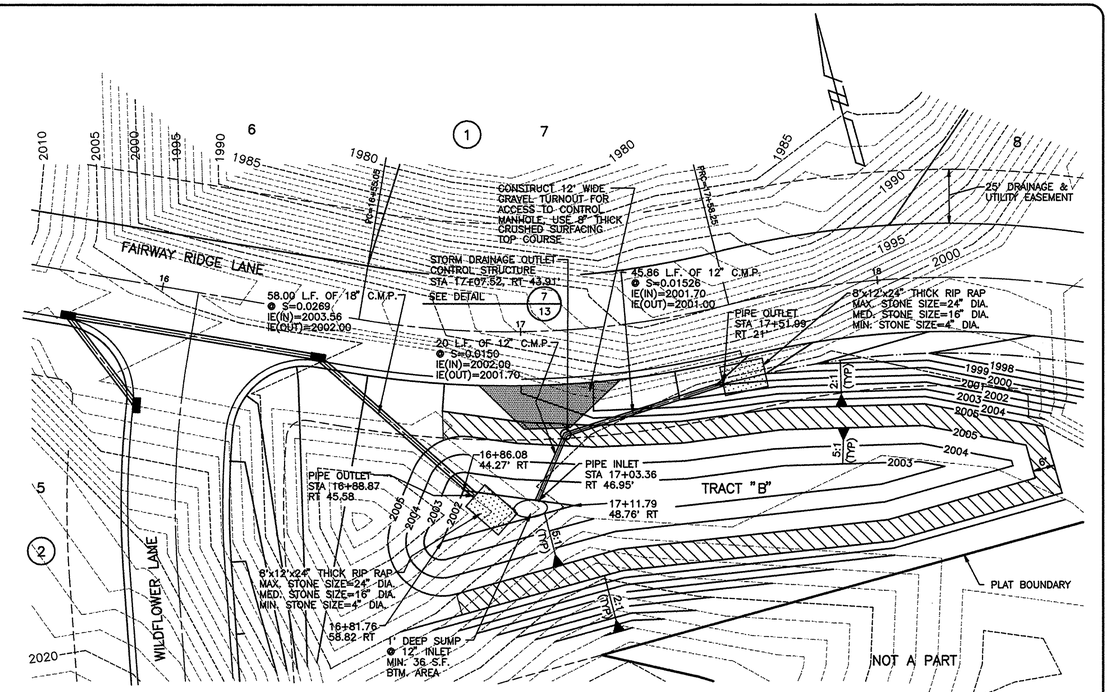
TYPICAL ROAD CROSS SECTION

WILDFLOWER LANE (STA 30+00 TO FAIRWAY RIDGE LANE)
FAIRWAY RIDGE LANE (STA 14+75 TO STA 17+58.25)
BLUEGROUSE LANE (STA 47+50 TO WILDFLOWER LANE)
HUCKLEBERRY LANE



TYPICAL ROAD CROSS SECTION

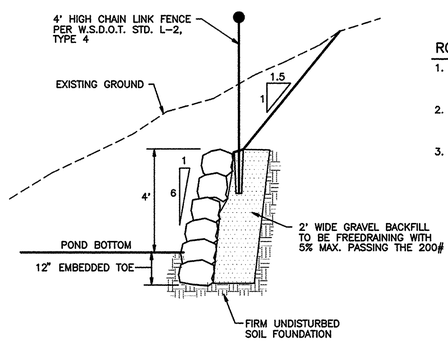
DEERCREST LANE



DETENTION POND "E1" (1/12)

BTM. ELEV.=2002.00
DESIGN MAX. W.S. ELEV.=2004
SCALE: 1"=20'

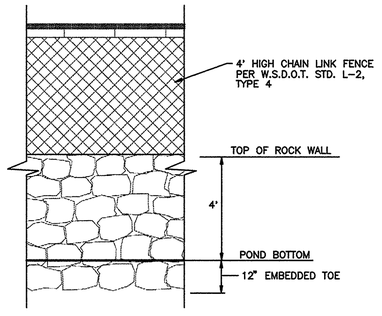
NOTE:
ALL STORM DRAIN STRUCTURES STATIONS & OFFSETS PER FAIRWAY RIDGE LANE STATIONING.



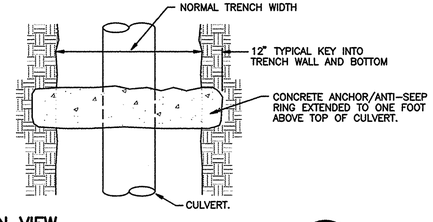
ROCK WALL SECTION (A/12)

ROCK WALL NOTES

1. MINIMUM ROCK SIZE/WIDTH 16" AT TOP OF WALL & 24" AT BOTTOM OF WALL
2. ROCK SHALL BE SOUND AND HAVE A MINIMUM DENSITY OF 160 POUNDS PER CUBIC FOOT
3. THE LONG DIMENSION OF ALL ROCKS SHALL BE PLACED PERPENDICULAR TO THE WALL. EACH ROCK SHALL BEAR ON TWO ROCKS IN THE TIER BELOW.



ROCK WALL FRONT VIEW (2/12)



PLAN VIEW CONCRETE ANCHOR/ANTI-SEEP RING (B/12)

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Evans P.E. 7-25-1994
P-1638
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NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

CALL BEFORE YOU DIG 456-8000

DEVELOPER'S APPROVAL

7/25/94
DATE

SCALE: HORIZONTAL AS NOTED; VERTICAL N/A

DATE 7/18/94
DWN. VVK & VZ
CHK. RLM
APP. RLM

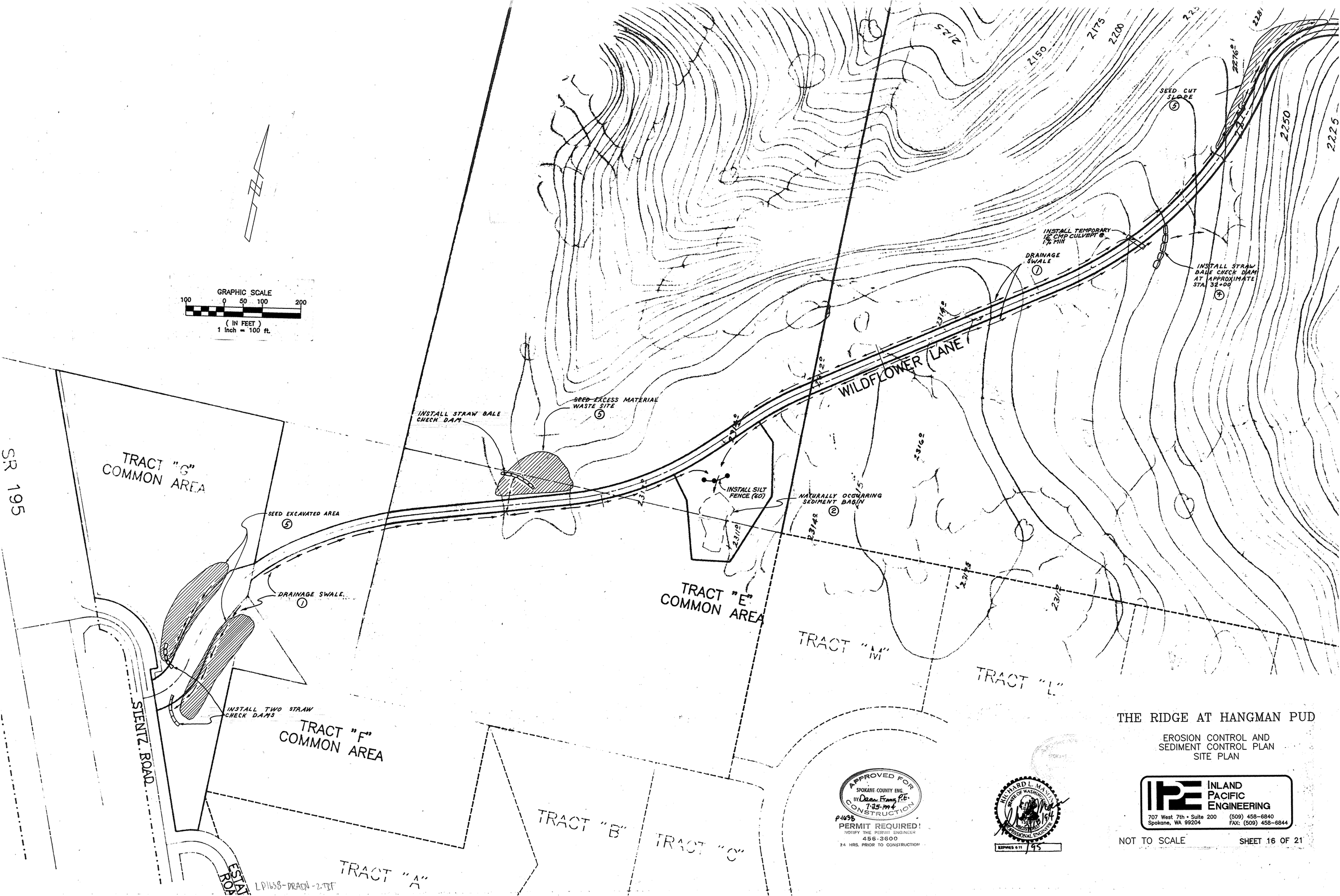
NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th, Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 455-6844

THE RIDGE AT HANGMAN STREET
DETAILS
P-1638

SHEET 12 OF 21
JOB NUMBER 92033

92033\VETCALS



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SPOKANE COUNTY ENG.
BY Dean Evans P.E.
7-25-1994
P-1638
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456-3600
24 HRS. PRIOR TO CONSTRUCTION

RICHARD L. MATTA
STATE OF WASHINGTON
13371
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6 11 95

THE RIDGE AT HANGMAN PUD

EROSION CONTROL AND
SEDIMENT CONTROL PLAN
SITE PLAN

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NOT TO SCALE

NOTE:
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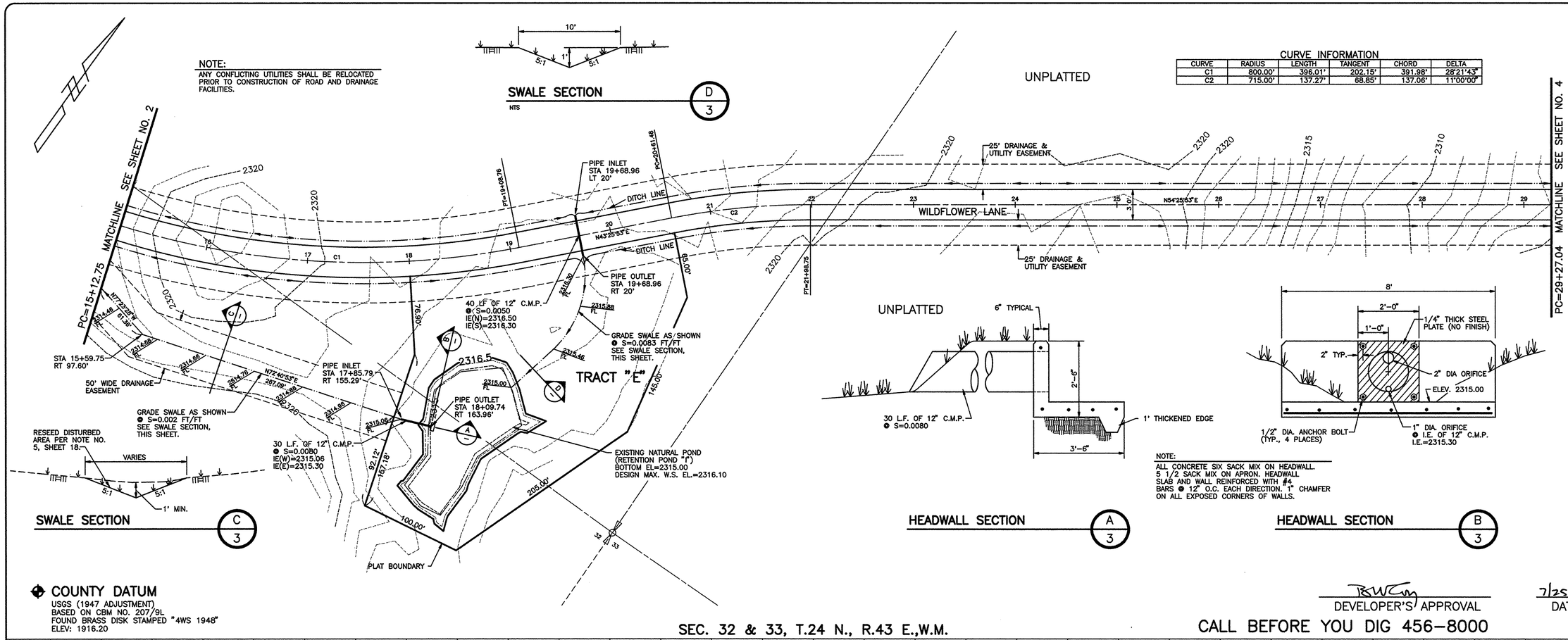


CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	800.00'	396.01'	202.15'	391.98'	28°21'43"
C2	715.00'	137.27'	68.85'	137.06'	11°00'00"

NOTE:
ALL CONCRETE SIX SACK MIX ON HEADWALL. 5 1/2 SACK MIX ON APRON. HEADWALL SLAB AND WALL REINFORCED WITH #4 BARS @ 12" O.C. EACH DIRECTION. 1" CHAMFER ON ALL EXPOSED CORNERS OF WALLS.

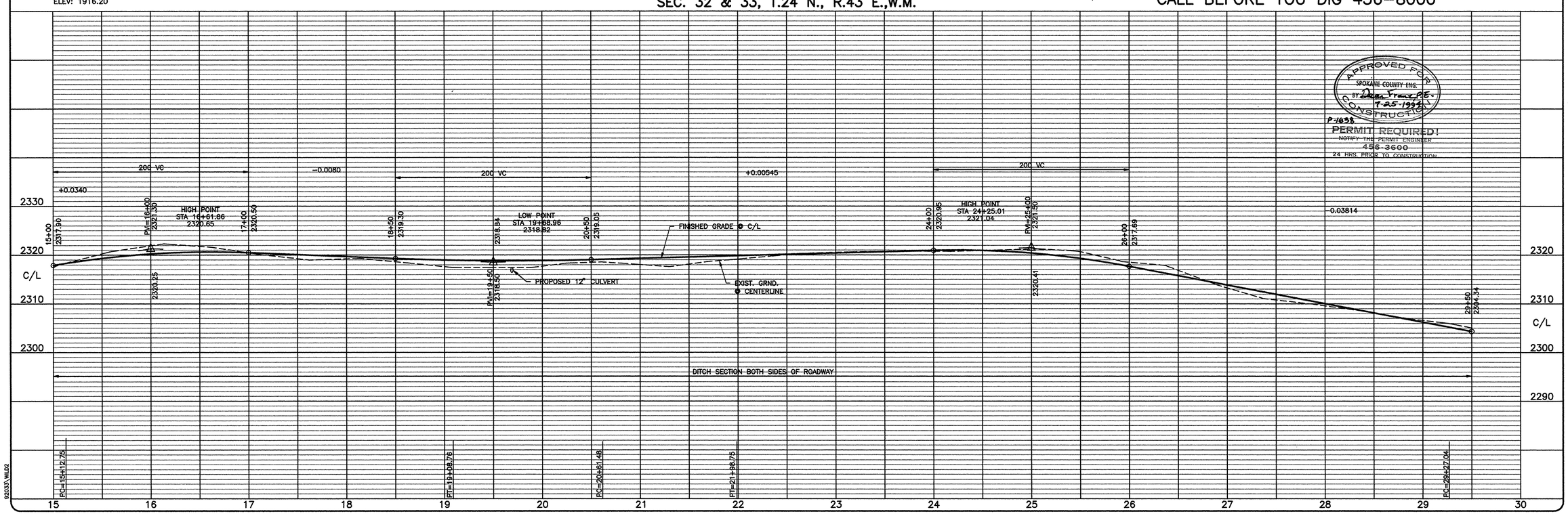
COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20

SEC. 32 & 33, T.24 N., R.43 E.,W.M.

DEVELOPER'S APPROVAL

7/25/94
DATE

CALL BEFORE YOU DIG 456-8000



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Franz, P.E.
7-25-1994
P-1638
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456-3600
24 HRS. PRIOR TO CONSTRUCTION

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

DATE 7/18/94
DWN. MWK RLM2
CHK. RLM
APP. RLM

NO.	DATE	BY	REVISIONS

RICHARD L. MASON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-11-95

INLAND PACIFIC ENGINEERING
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Spokane, WA 99204
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FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
WILDFLOWER LANE
STA 15+12.75 TO STA 29+27.04
P-1638
STREET

SHEET 3 OF 21
JOB NUMBER 92033

92033\WILD2

LP1638-PP-2.TXT

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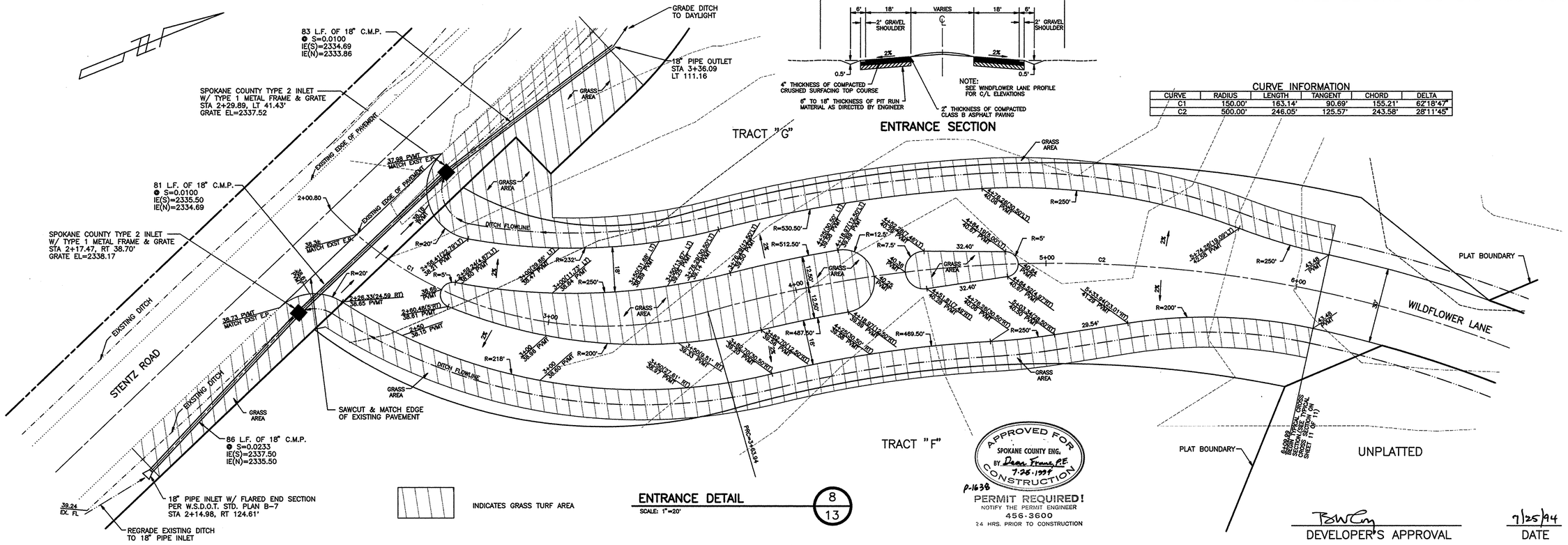
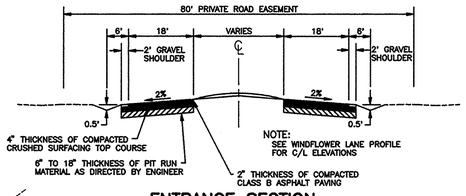


ENTRANCE DETAIL

SCALE: 1"=20'

8/13



NOTE: SEE WINDFLOWER LANE PROFILE FOR C/L ELEVATIONS

ENTRANCE SECTION

CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	150.00'	163.14'	90.69'	155.21'	62°18'47"
C2	500.00'	246.05'	125.57'	243.58'	28°11'45"

APPROVED FOR CONSTRUCTION
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BY Dean Franz P.E. 7-25-1994
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456-3600
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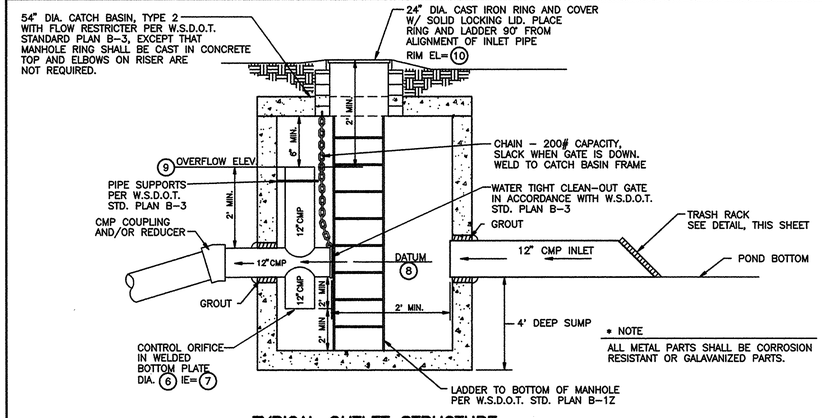
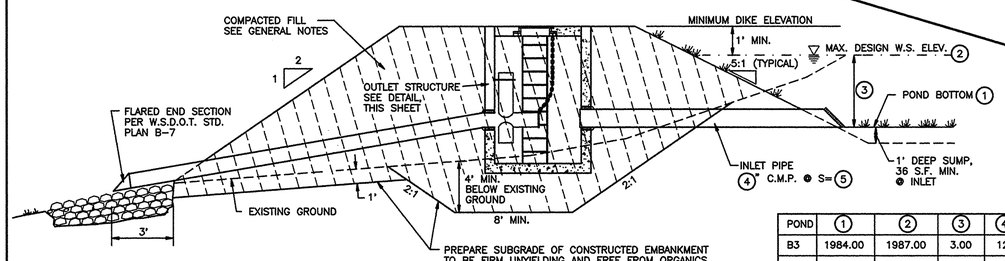
DEVELOPER'S APPROVAL — DATE 7/25/94



* NOTE
ALL METAL PARTS SHALL BE CORROSION RESISTANT OR GALAVANIZED PARTS.

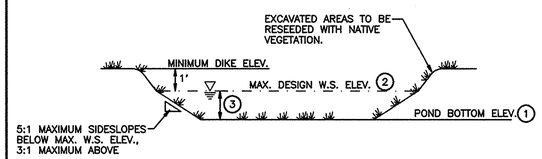
TYPICAL OUTLET STRUCTURE



TYPICAL DETENTION POND

NOT TO SCALE
SEE TYPICAL OUTLET STRUCTURE DETAIL ABOVE

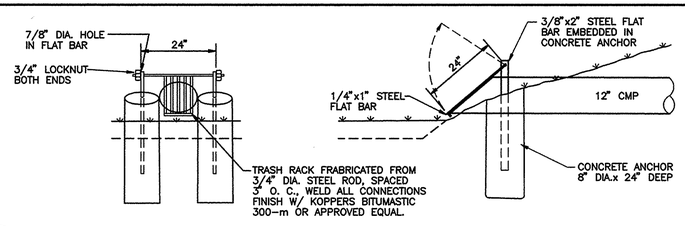
7/13



POND	(1)	(2)	(3)
A2	1980.00	1982.15	2.15
B1	2300.00	2300.82	0.82
B2	2300.00	2300.91	0.91
I	2315.00	2316.10	1.10

TYPICAL RETENTION POND

NOT TO SCALE



TRASH RACK DETAIL

POND	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
B3	1984.00	1987.00	3.00	12	.1000	9	1979.00	1982.00	1987.00	1989.0
C1	2085.00	2086.41	1.41	12	.0100	6	2082.75	2085.25	2087.00	2089.0
C3	1999.00	2002.81	3.81	12	.0200	6	1995.70	1997.70	2003.00	2006.0
E1	2002.00	2004.04	2.04	12	.0150	3	1999.70	2002.20	2004.00	2006.0
E3	1989.00	1990.38	1.38	12	.0750	3	1986.10	1988.60	1991.00	1993.0
G1	2003.00	2004.36	1.36	12	.0313	6	2000.75	2003.25	2004.00	2006.8

GENERAL NOTES:

1. The Standard Specifications governing work on this project shall be the 1991 Standard Specifications for Road, Bridge and Municipal Construction as promulgated by Washington State Dept. of Transportation and as currently adopted by Spokane County
2. Clear and grub the entire site of excavation and embankment in accordance with Section 2-01 of the Standard Specifications, except that burning if allowed shall be in accordance with regulations of the Spokane County Air Pollution Control Authority.
3. All required embankment shall be placed in accordance with paragraph 2-03.3(14)B and compacted in accordance with paragraph 2-03.3(14)C, Method C, of the Standard Specifications, except under all conditions use 12" lifts and that the minimum required compaction shall be 95% (ASTM D1557). Material for embankment construction is to be obtained from excess excavation material from road construction elsewhere within the project site. All required excavation shall be incidental to the embankment requirements of the project. Embankment material will be a mixture of medium textured silt loam, decomposed granite, and fractured rock obtained from excess excavated material from road construction activities elsewhere on the project site. The contractor shall mix the available soil materials to create a homogeneous embankment material. Embankment construction methods shall be in accordance with paragraph 2-03.3(14)A, except that the top 4 inches of the sloping sides of the embankment shall be native top soil material. The embankment gradation shall be as follows:

SIEVE SIZE	PERCENT PASSING
12" Square	100
6" Square	95-100
3" Square	75-100
1" Square	50-75
1/4" Square	30-60
US NO 40	10-40

The Contractor shall employ at his own expense a soils consultant approved by the Owner to determine optimum moisture content and to perform soil density tests. Compaction tests shall be taken a minimum of 2 locations on each 12" lift of embankment construction and the prepared subgrade. the soils consultant shall keep a written record of all tests and upon completion of pond berm construction, or upon the request of Spokane County, 3 copies of a written report shall be submitted to Spokane County, which verify that the compaction requirements have been met.

4. After completion of all clearing, grubbing, excavation and embankment construction, seed all cut bank slopes and fill embankments and other areas disturbed during construction. Seed mixture should be streambank wheatgrass (Sodar) 33.3%, Tall Wheatgrass (Alkar) 33.33% and intermediate wheatgrass (Greenar) 33.4%. Application shall be at the rate of 60 lbs. seed mixture per acre and shall include a fertilizer mix which yields 135 lbs./acre total Nitrogen as N, 80 lbs./acre available as Phosphoric P205, and 80 lbs./acre soluble Potash K20. The seed and fertilizer mixture shall be sprayed on as a mulch with a tackifier of Terra Tac AR or J-Tac HS applied at the rate recommended by the manufacturer, and with wood cellulose fiber applied at 150 lbs./acre.
5. Temporary erosion control during construction shall be in accordance with the approved Sediment and Erosion Control Plan

SCALE: HORIZONTAL 1"=20' VERTICAL N/A

DATE 7/18/94 DWN. MWK CHK. RLM APP. RLM

NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

THE RIDGE AT HANGMAN STREET
DETAILS SHEET

SHEET 13 OF 21
JOB NUMBER 92033

92033\DETAIL2

LP1638-UTIL-2.DWG

THE RIDGE AT HANGMAN PUD

EROSION CONTROL AND
SEDIMENT CONTROL PLAN
SITE PLAN

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Franz, P.E.
7-25-1994
P-1638

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NOT TO SCALE

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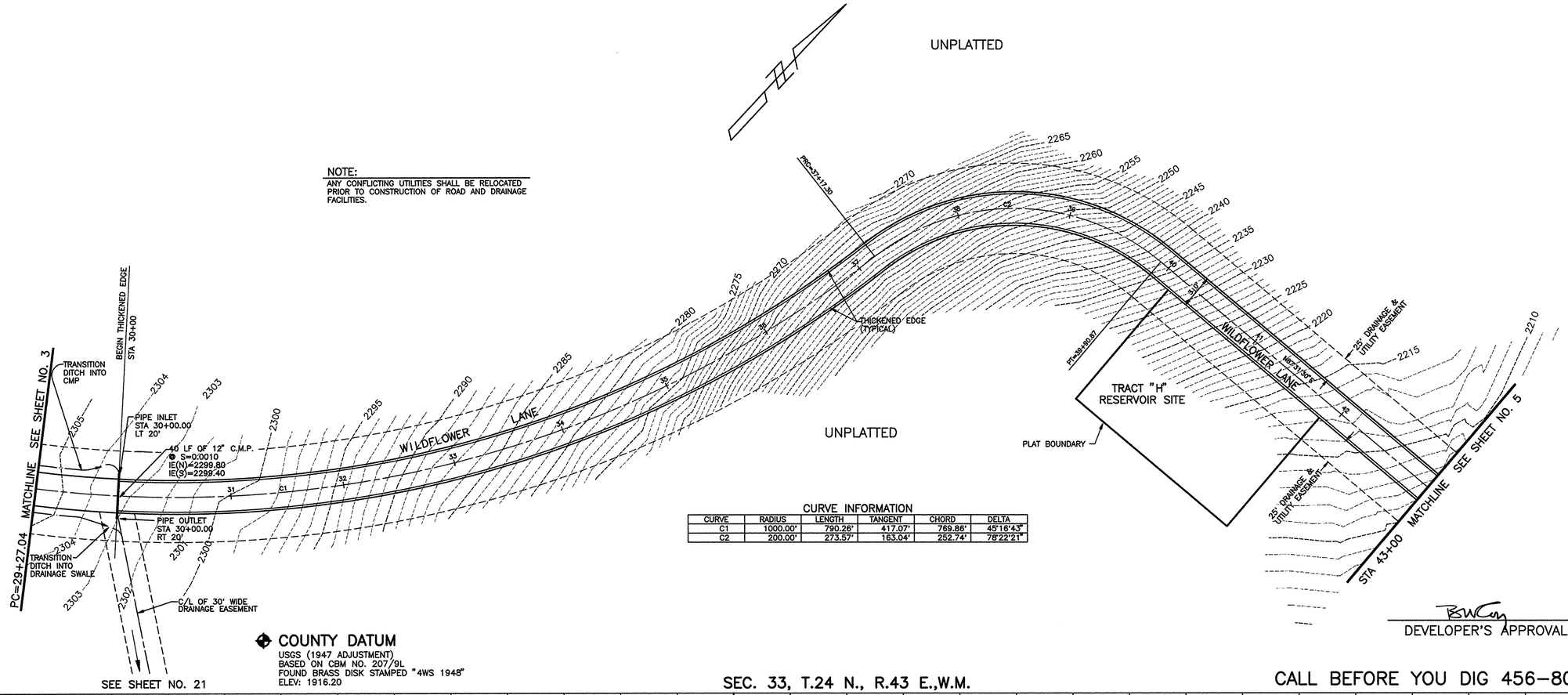


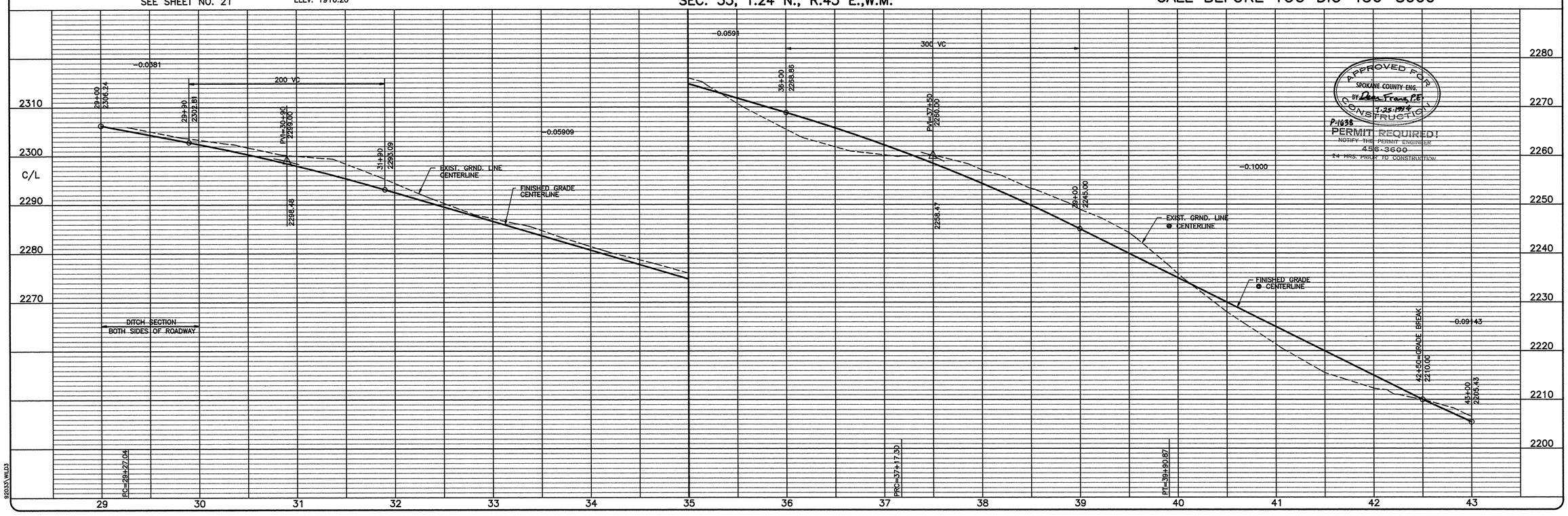
CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1000.00'	790.26'	417.07'	769.86'	45°16'43"
C2	200.00'	273.57'	163.04'	252.74'	78°22'21"

DEVELOPER'S APPROVAL — DATE 7/25/94

SEC. 33, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456-8000



92033\WILD3

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

DATE 7/18/94 DWN. MWK RLM2 CHK. RLM APP. RLM

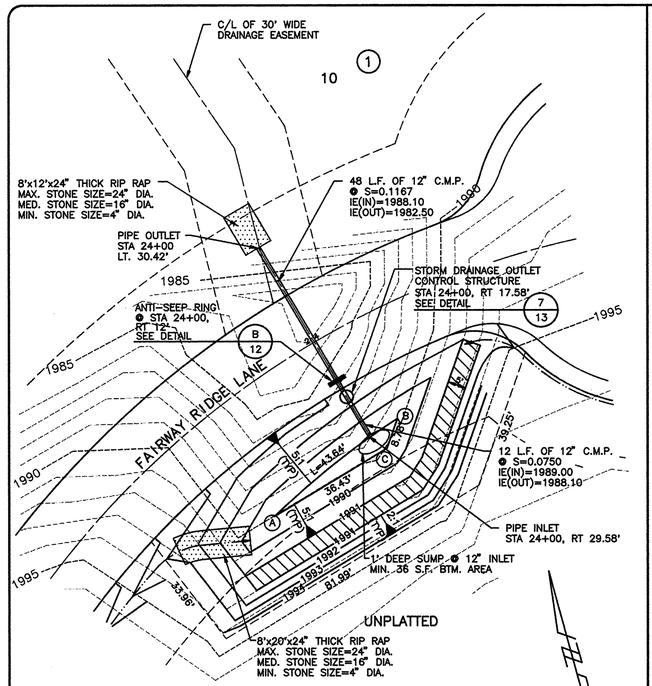
NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
WILDFLOWER LANE STREET
STA 29+27.04 TO STA 43+00
P-1638

SHEET 4 OF 21
JOB NUMBER 92033

LP1638-PP-3.TIF



POND BOTTOM, STATION & OFFSET

- (A) STA 233+60.49, 33.38' RT.
- (B) STA 24+10.27, 29.71' RT.
- (C) STA 24+02.72, 35.55' RT.

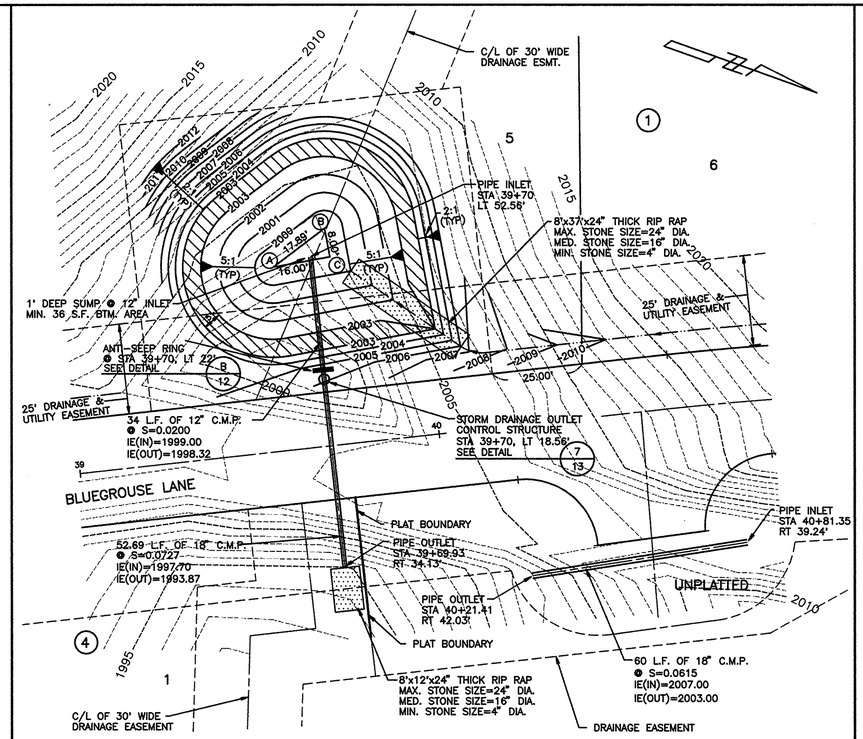
DETENTION POND "E3"

BTM. ELEV.=1989.0
DESIGN MAX. W.S. ELEV.=1990.64

1 / 14

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Stone, P.E.
7-25-1994

P-1638
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION



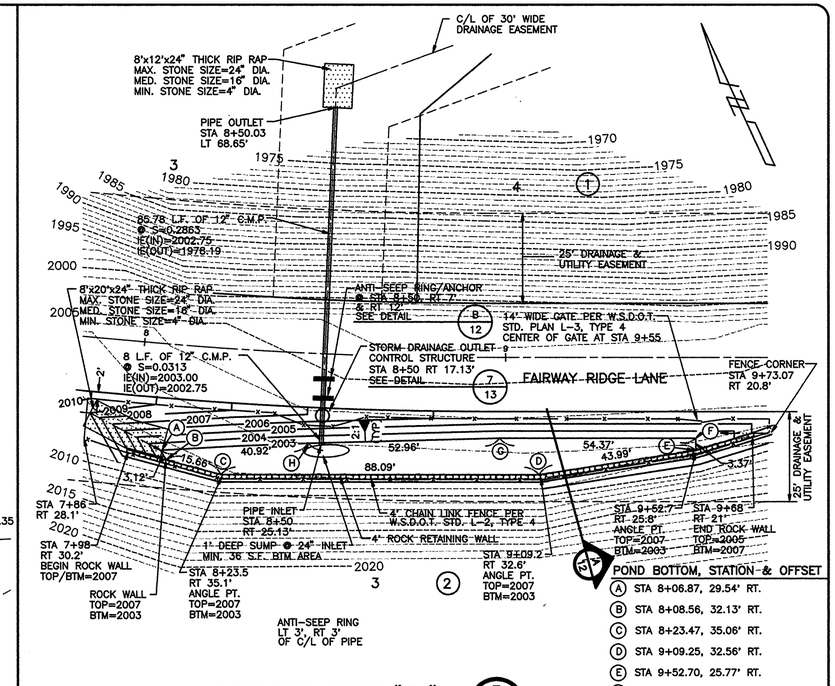
DETENTION POND "C3"

BTM. ELEV.=1999.0
DESIGN MAX. W.S. ELEV.=2002.50

2 / 14

POND BOTTOM, STATION & OFFSET

- (A) STA 39+59.36, 51.0' LT
- (B) STA 39+74.73, 60.17' LT.
- (C) STA 39+80.68, 47.58' LT.



POND BOTTOM, STATION & OFFSET

- (A) STA 8+06.87, 29.54' RT.
- (B) STA 8+08.56, 32.13' RT.
- (C) STA 8+23.47, 35.06' RT.
- (D) STA 9+09.25, 32.56' RT.
- (E) STA 9+52.70, 25.77' RT.
- (F) STA 9+52.70, 22.40' RT.
- (G) STA 8+98.33, 22.40' RT.
- (H) STA 8+46.51, 24.97' RT

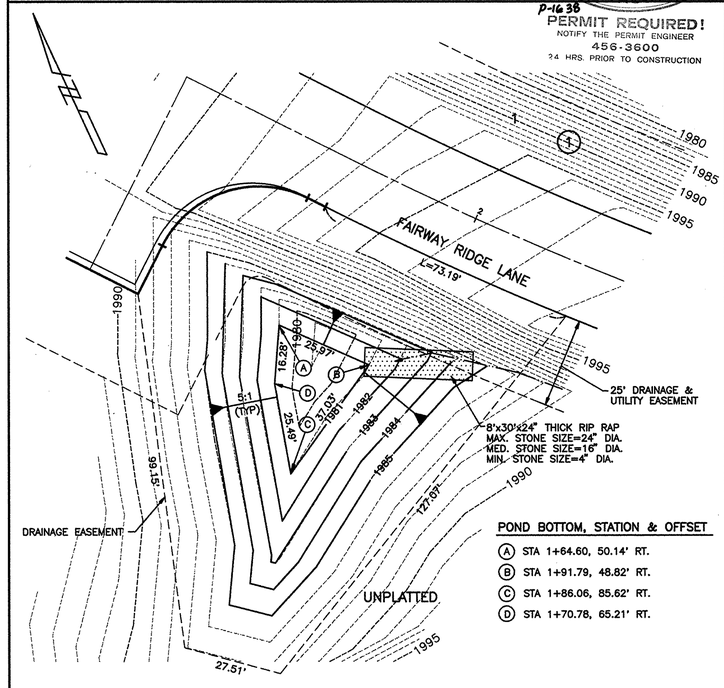
DETENTION POND "G1"

BTM. ELEV.=2003.0
DESIGN MAX. W.S. ELEV.=2004.03

3 / 14

NOTE:
SEE SHEET 13 OF 18 FOR STORM DRAIN GENERAL NOTES.

DEVELOPER'S APPROVAL — DATE 7/25/94



POND BOTTOM, STATION & OFFSET

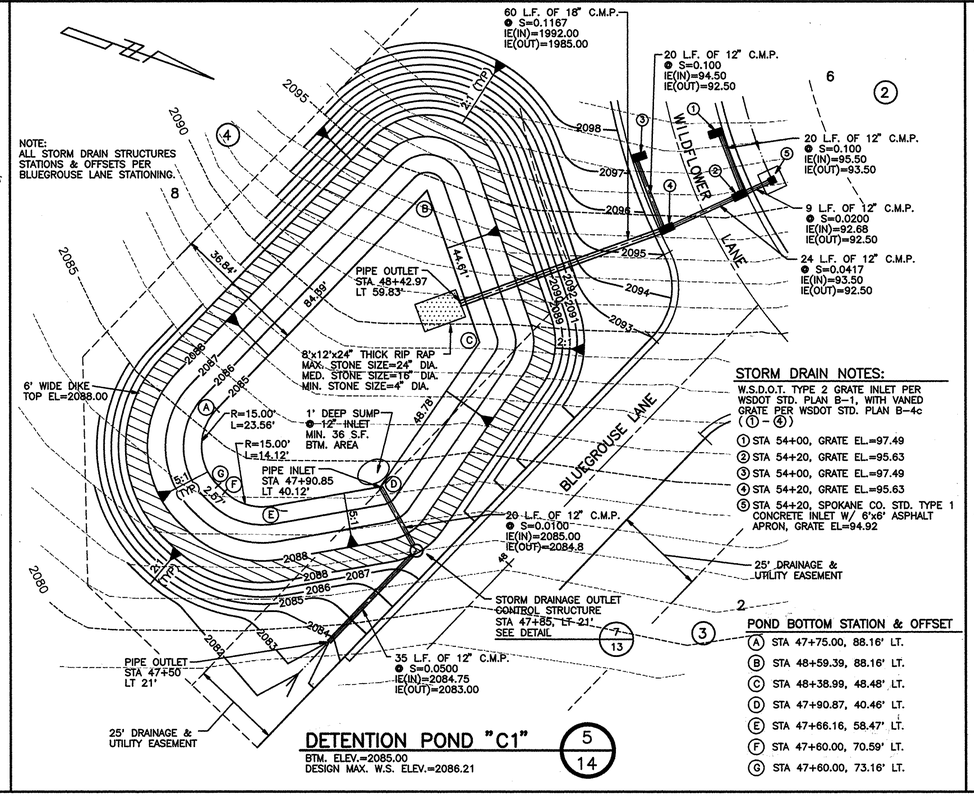
- (A) STA 1+64.60, 50.14' RT.
- (B) STA 1+91.79, 48.82' RT.
- (C) STA 1+86.06, 85.62' RT.
- (D) STA 1+70.78, 65.21' RT.

RETENTION POND "A2"

BTM EL=1980.0
DESIGN MAX. W.S. ELEV.=1982.15

4 / 14

NOTE:
ALL STORM DRAIN STRUCTURES STATIONS & OFFSETS PER BLUEGROUSE LANE STATIONING.



STORM DRAIN NOTES:
W.S.D.O.T. TYPE 2 GRATE INLET PER WSDOT STD. PLAN B-1, WITH VANED GRATE PER WSDOT STD. PLAN B-4c (1 - 4)

1. STA 54+00, GRATE EL.=97.49
2. STA 54+20, GRATE EL.=95.63
3. STA 54+00, GRATE EL.=97.49
4. STA 54+20, GRATE EL.=95.63
5. STA 54+20, SPOKANE CO. STD. TYPE 1 CONCRETE INLET W/ 6"x6" ASPHALT APRON, GRATE EL=94.92

POND BOTTOM STATION & OFFSET

- (A) STA 47+75.00, 88.16' LT.
- (B) STA 48+59.39, 88.16' LT.
- (C) STA 48+38.99, 48.48' LT.
- (D) STA 47+90.87, 40.46' LT.
- (E) STA 47+66.16, 58.47' LT.
- (F) STA 47+60.00, 70.59' LT.
- (G) STA 47+60.00, 73.16' LT.

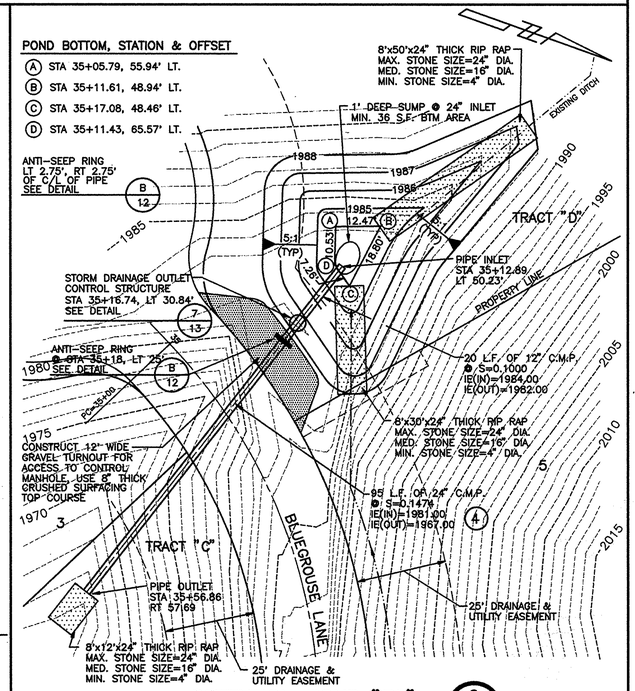
DETENTION POND "C1"

BTM. ELEV.=2085.00
DESIGN MAX. W.S. ELEV.=2086.21

5 / 14

POND BOTTOM, STATION & OFFSET

- (A) STA 35+05.79, 55.94' LT.
- (B) STA 35+11.61, 48.94' LT.
- (C) STA 35+17.08, 48.46' LT.
- (D) STA 35+11.43, 65.57' LT.



DETENTION POND "B3"

BTM. ELEV.=1984.00
DESIGN MAX. W.S. ELEV.=1985.96

6 / 14

92033\SDDETAIL

LP1638-UTIL-3.DIF

SCALE: HORIZONTAL 1"=20' VERTICAL N/A

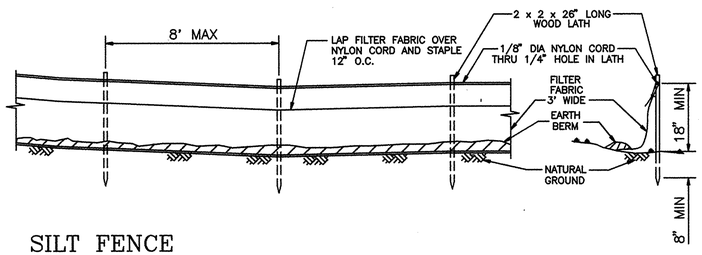
DATE 7/18/94 DWN. MWK CHK. RLM APP. RLM

NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th - Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

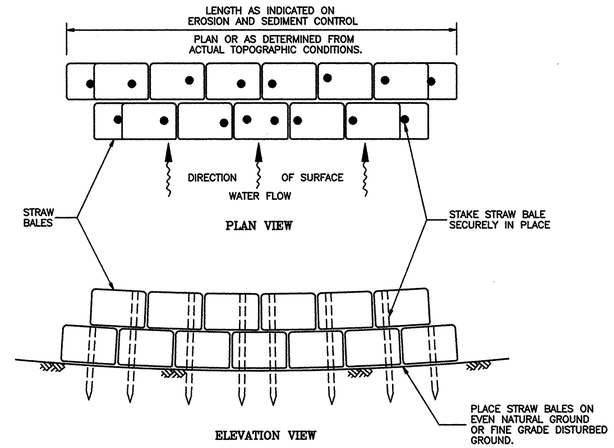
THE RIDGE AT HANGMAN P.U.D.
POND DETAILS
P-1638 STREET

SHEET 14 OF 21
JOB NUMBER 92033



SILT FENCE

N.T.S.

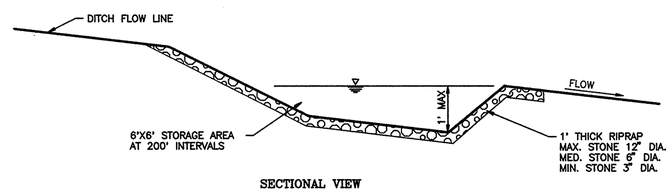


STRAW BALE CHECK DAM

N.T.S.

EROSION AND SEDIMENT CONTROL KEYED NOTES

1. DRAINAGE SWALE
   ROUGH GRADE A DRAINAGE SWALE CONCURRENT WITH THE COMPLETION OF THE ROUGH GRADING OPERATION FOR THE ROADS. DIRECTION OF DRAINAGE GRADIENT TO BE AS INDICATED ON EROSION AND SEDIMENT CONTROL PLAN. SEE DETAIL SHEET FOR SWALE CONFIGURATION.
2. NATURALLY OCCURRING SEDIMENT BASIN
   THESE ARE BASINS WHICH EITHER EXIST PRIOR TO COMMENCEMENT OF CONSTRUCTION OR WILL BE FORMED ONCE THE ROAD ROUGH GRADING IS ACCOMPLISHED. MOST NATURALLY OCCURRING SEDIMENT BASINS SHOWN ON THE PLAN ARE LOCATIONS THAT WILL BECOME PERMANENT STORM WATER CONTROL FACILITIES WITH GRADING AND SURFACE TREATMENT AS PRESCRIBED IN THE FINAL ROAD PLANS. SOME OF THESE BASINS HAVE CULVERT OUTLETS. PERIODICALLY REMOVE SEDIMENT FROM THESE BASINS TO ASSURE THAT SEDIMENT CANNOT MIGRATE DOWN STREAM AND IN PARTICULAR THAT THE LEVEL OF SEDIMENT DOES NOT REACH THE INVERT LEVEL OF OUTLET CULVERTS.
3. SILT FENCE
   INSTALL SILT FENCE OVER UNDISTURBED GROUND HAVING AN ESTABLISHED VEGETATIVE COVER. SEE DETAIL SHEET FOR SILT FENCE CONFIGURATION.
4. STRAW BALE CHECK DAM
   INSTALL STRAW BALE CHECK DAM IN THE APPROXIMATE LOCATIONS SHOWN. LENGTH OF DAM SHALL BE DETERMINED FROM ACTUAL TOPOGRAPHIC CONDITIONS. SEE DETAIL SHEET FOR STRAW BALE CHECK DAM CONFIGURATION.
5. SEEDING OF EXCAVATED OR EMBANKMENT SLOPES
   AFTER COMPLETION OF ALL CLEARING, GRUBBING, EXCAVATION AND EMBANKMENT CONSTRUCTION, SEED ALL CUT BANK SLOPES AND FILL EMBANKMENTS AND OTHER AREAS DISTURBED DURING CONSTRUCTION. SEED MIXTURE SHOULD BE STREAM BANK WHEATGRASS (SODAR) 33.3%, TALL WHEATGRASS (ALKAR) 33.3% AND INTERMEDIATE WHEATGRASS (GREENAR) 33.4%.. APPLICATION SHALL BE AT THE RATE OF 60 lbs SEED MIXTURE PER ACRE AND SHALL INCLUDE A FERTILIZER MIX WHICH YIELDS 135 lbs./ACRE TOTAL NITROGEN AS N, 80 lbs./ACRE AVAILABLE AS PHOSPHORIC P205, AND 80 lbs./ACRE SOLUBLE POTASH K20. THE SEED AND FERTILIZER MIXTURE SHALL BE SPRAYED ON AS A MULCH WITH A TACKIFIER OF TERRA TAC AR OR J-TAC HS APPLIED AT THE RATE RECOMMENDED BY THE MANUFACTURER, AND WITH WOOD CELLULOSE FIBER APPLIED AT 150 lbs./ACRE. IN GENERAL, SEEDING MAY TAKE PLACE DURING THE MONTHS OF APRIL THRU SEPTEMBER.
6. EROSION CONTROL AND SEDIMENT STORAGE AREAS
   CONSTRUCT TEMPORARY "EROSION CONTROL AND SEDIMENT STORAGE AREA" IN THE DRAINAGE SWALE ALONG WILDFLOWER LANE AT 200' INTERVALS ON BOTH SIDES OF THE ROAD AS SHOWN ON THE EROSION CONTROL PLANS. ALSO SEE DETAIL FOR STORAGE AREA CONFIGURATION.
7. CLEANING OF TEMPORARY EROSION CONTROL STRUCTURES
   TEMPORARY EROSION CONTROL STRUCTURES (I.E. SILT FENCES, STRAW BALES, AND EROSION CONTROL & SEDIMENT STORAGE AREAS) ARE TO BE PERIODICALLY CLEANED OF COLLECTED SILT THROUGHOUT THE COURSE OF CONSTRUCTION.



EROSIONS CONTROL & SEDIMENT STORAGE AREA

N.T.S.

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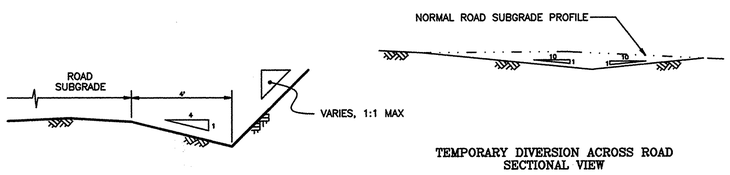
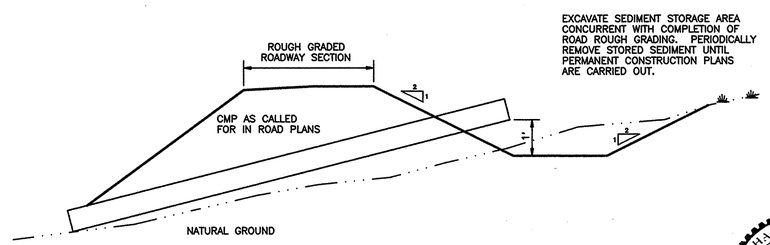
SPOKANE COUNTY ENG.
BY Dean Firons P.E.
7-25-1994
P-1638
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION



DRAINAGE SWALE

N.T.S.



SEDIMENT BASIN WITH CULVERT OUTLET

N.T.S.

RICHARD L. MASTA
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6 11 95

THE RIDGE AT HANGMAN PUD

EROSION CONTROL AND
SEDIMENT CONTROL PLAN
SITE PLAN

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

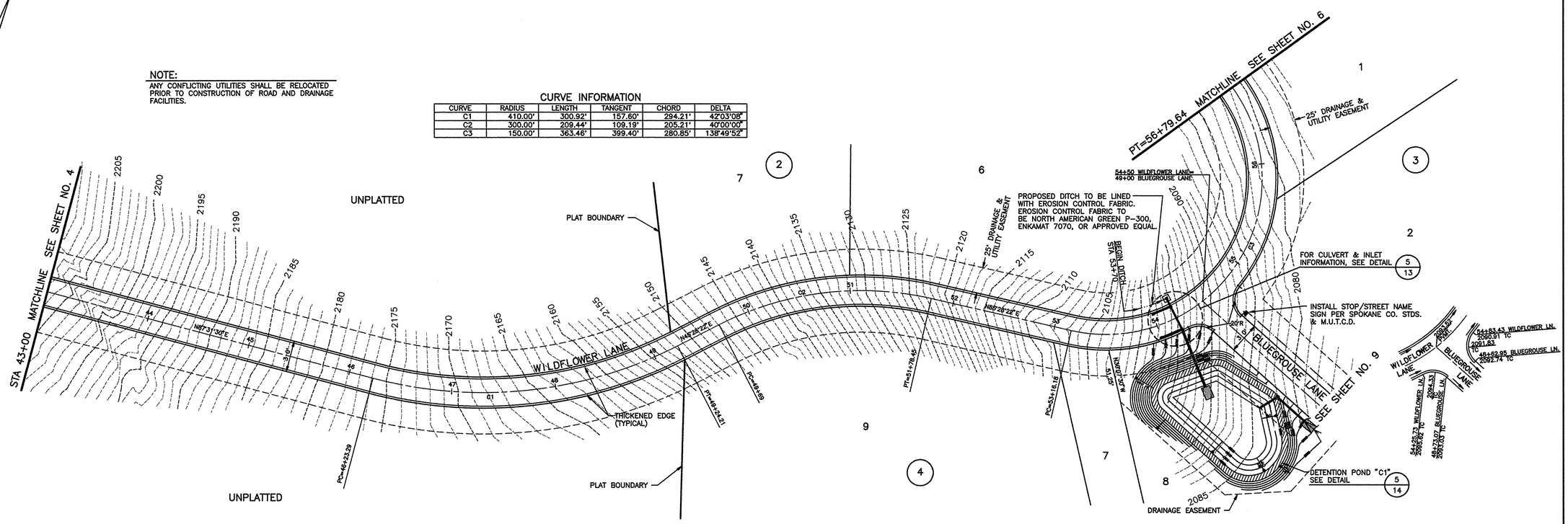
NOT TO SCALE

93031\DWG\DETS 7-18-94

NOTE:
ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	410.00'	300.92'	157.60'	294.21'	42°03'08"
C2	300.00'	209.44'	109.19'	205.21'	40°00'00"
C3	150.00'	363.46'	399.40'	280.85'	138°49'52"



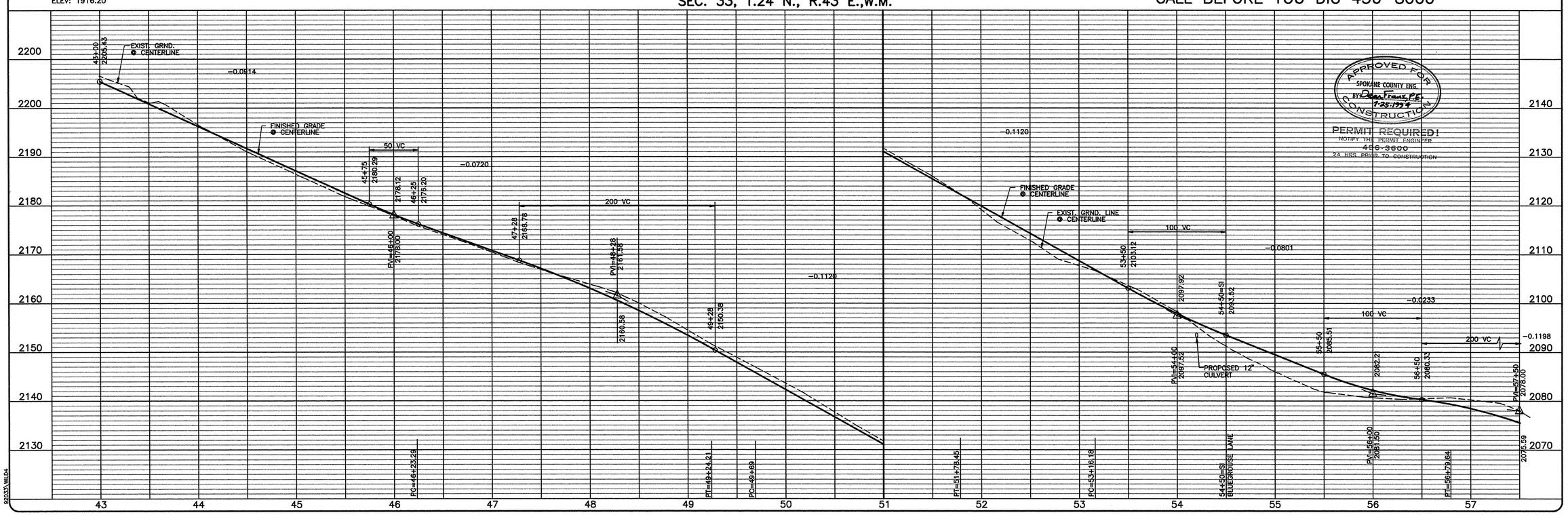
DEVELOPER'S APPROVAL

7/25/94
DATE

COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20

SEC. 33, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456-8000



THE RIDGE AT HANGMAN P.U.D.
WILDFLOWER LANE STREET
STA 43+00 TO STA 56+79.64
P-1638

INLAND PACIFIC ENGINEERING
707 West 7th, Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

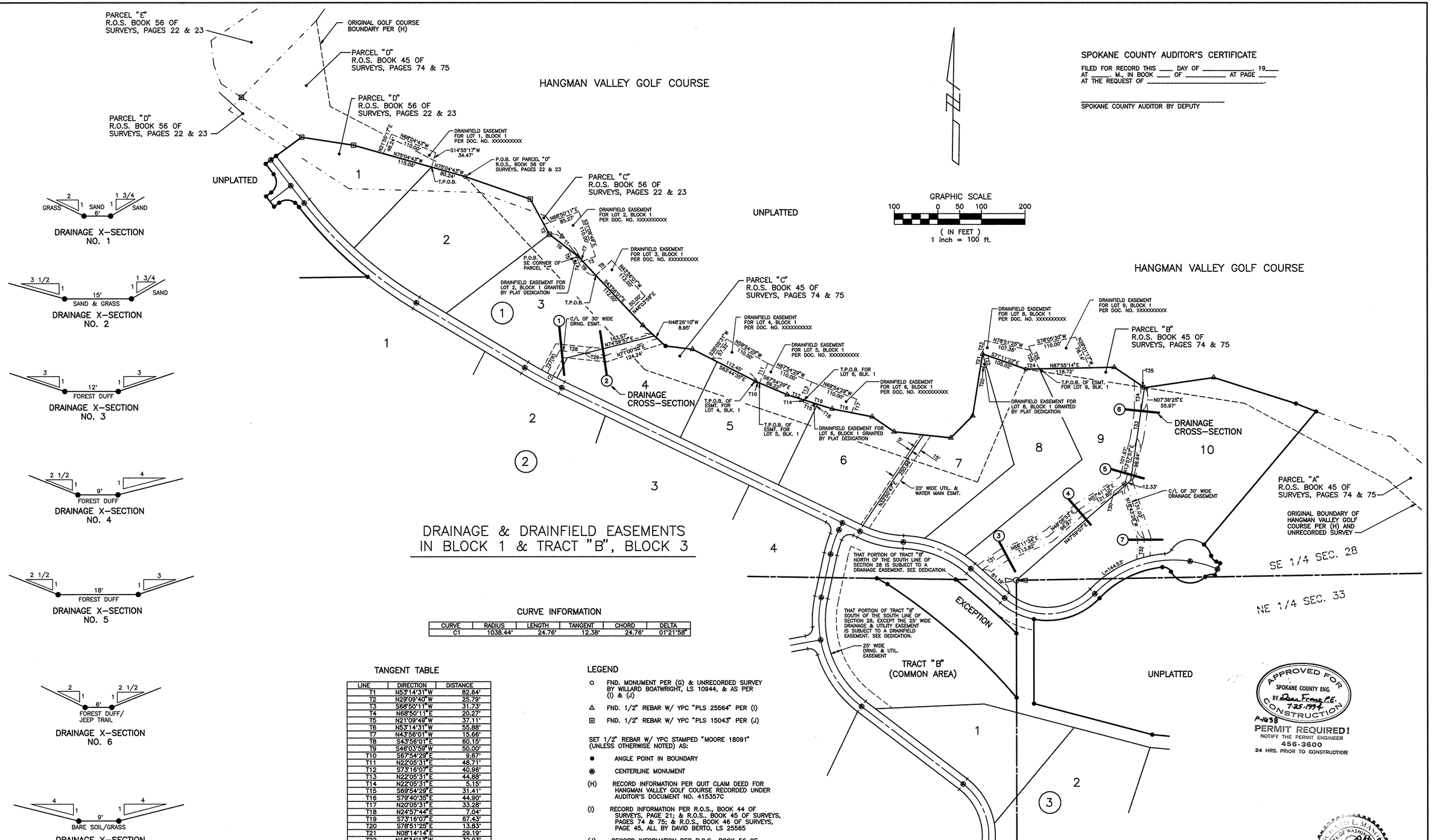
SCALE: HORIZONTAL 1"=50' VERTICAL 1"=10'
DATE 7/18/94 DWN. MMK, RLM2 CHK. RLM APP. RLM

NO.	DATE	BY	REVISIONS

SHEET 5 OF 21
JOB NUMBER 92033

92033\WILD4

P1638-PP-4.TIF



SPOKANE COUNTY AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS ____ DAY OF _____, 19____
AT _____ M., IN BOOK ____ OF _____ AT PAGE ____
AT THE REQUEST OF _____.

_____
SPOKANE COUNTY AUDITOR BY DEPUTY

DRAINAGE & DRAINFIELD EASEMENTS IN BLOCK 1 & TRACT "B", BLOCK 3

CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1038.44'	24.76'	12.38'	24.76'	01°21'58"

TANGENT TABLE

LINE	DIRECTION	DISTANCE
T1	N53°14'31"W	82.64'
T2	N29°09'40"W	25.79'
T3	S68°50'11"W	31.73'
T4	N68°50'11"E	20.27'
T5	N21°09'49"W	37.11'
T6	N53°14'31"W	55.88'
T7	N43°56'01"W	15.66'
T8	S43°56'01"E	60.15'
T9	S46°03'59"W	50.00'
T10	S87°54'29"E	9.67'
T11	N22°05'31"E	48.71'
T12	S73°16'07"E	40.96'
T13	N22°05'31"E	44.88'
T14	N22°05'31"E	5.15'
T15	S69°54'29"E	31.41'
T16	S79°40'35"E	44.90'
T17	N20°05'31"E	33.28'
T18	N24°57'44"E	7.04'
T19	S73°16'07"E	67.43'
T20	S78°51'25"E	13.83'
T21	N08°14'14"E	29.19'
T22	N16°34'13"W	32.93'
T23	N08°14'14"E	30.89'
T24	N87°55'14"E	31.15'
T25	N26°01'17"W	47.35'
T26	S26°01'17"E	57.59'
T27(R)	N27°24'09"E	58.71'
T28	S85°07'57"E	59.75'
T29	S85°07'57"E	47.38'
T31	N54°24'36"E	58.05'
T32	N01°27'40"E	44.53'
T33	N07°36'25"E	61.88'
T34	N00°52'54"W	60.99'
T35	S56°35'02"E	10.00'
T30	S18°43'26"E	7.46'

LEGEND

- ○ FND. MONUMENT PER (G) & UNRECORDED SURVEY BY WILLARD BOATWRIGHT, LS 10944, & AS PER (I) & (J)
- △ FND. 1/2" REBAR W/ YPC "PLS 25564" PER (I)
- ⊡ FND. 1/2" REBAR W/ YPC "PLS 15043" PER (J)

SET 1/2" REBAR W/ YPC STAMPED "MOORE 18091" (UNLESS OTHERWISE NOTED) AS:

- ● ANGLE POINT IN BOUNDARY
- ⊗ CENTERLINE MONUMENT

(H) RECORD INFORMATION PER QUIT CLAIM DEED FOR HANGMAN VALLEY GOLF COURSE RECORDED UNDER AUDITOR'S DOCUMENT NO. 415357C

(I) RECORD INFORMATION PER R.O.S., BOOK 44 OF SURVEYS, PAGE 21; & R.O.S., BOOK 45 OF SURVEYS, PAGES 74 & 75; & R.O.S., BOOK 46 OF SURVEYS, PAGE 45, ALL BY DAVID BERTO, LS 25565

(J) RECORD INFORMATION PER R.O.S., BOOK 56 OF SURVEYS, PAGES 22 AND 23, BY EUGENE WELLBORN, LS 15043

SURVEYOR'S NOTES:

1. SEE SHEET 3 OF 7 FOR BASIS BEARINGS AND ACCURACY STATEMENT.

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707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Fraus P.E.
7-25-1994
P-1438
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

STATE OF WASHINGTON
RICHARD L. MAUK
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-11-95

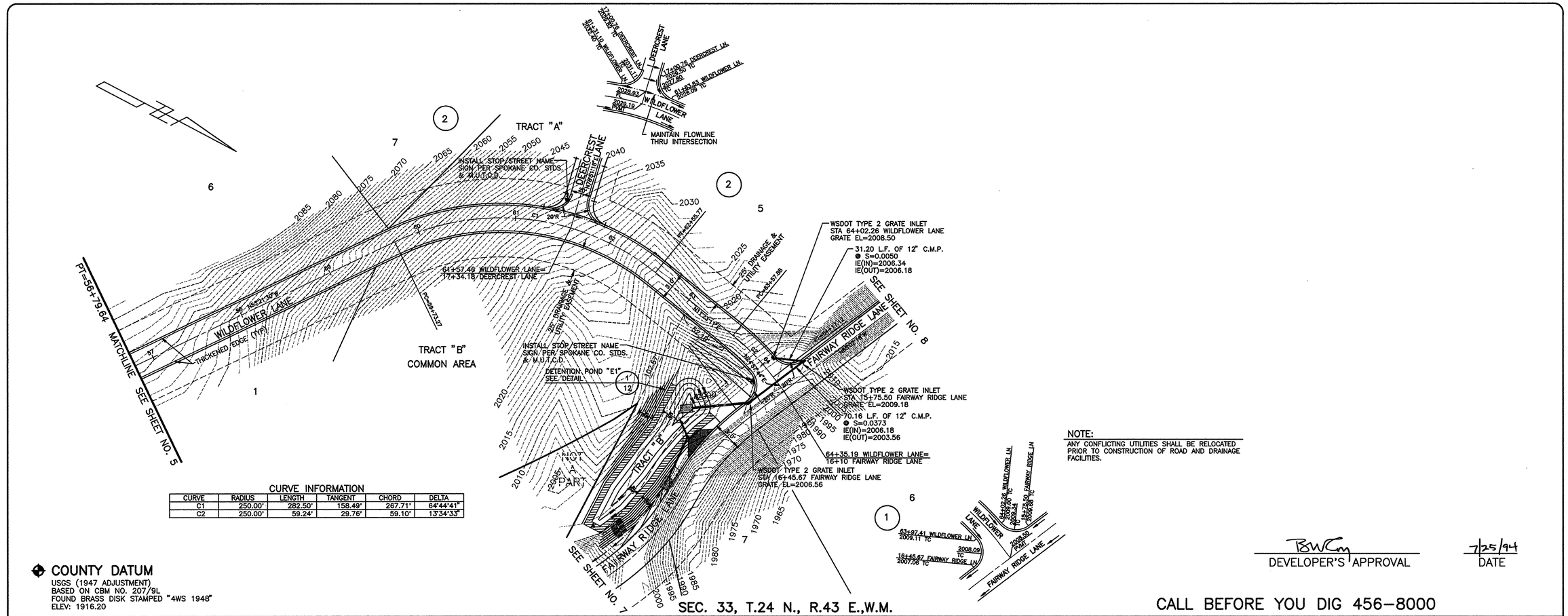
THE RIDGE AT HANGMAN, PHASE I

DRAINAGE SUPPLEMENT

SHEET
19 OF 21
JOB NUMBER
92033

92033\SDVSECT2 7-18-94

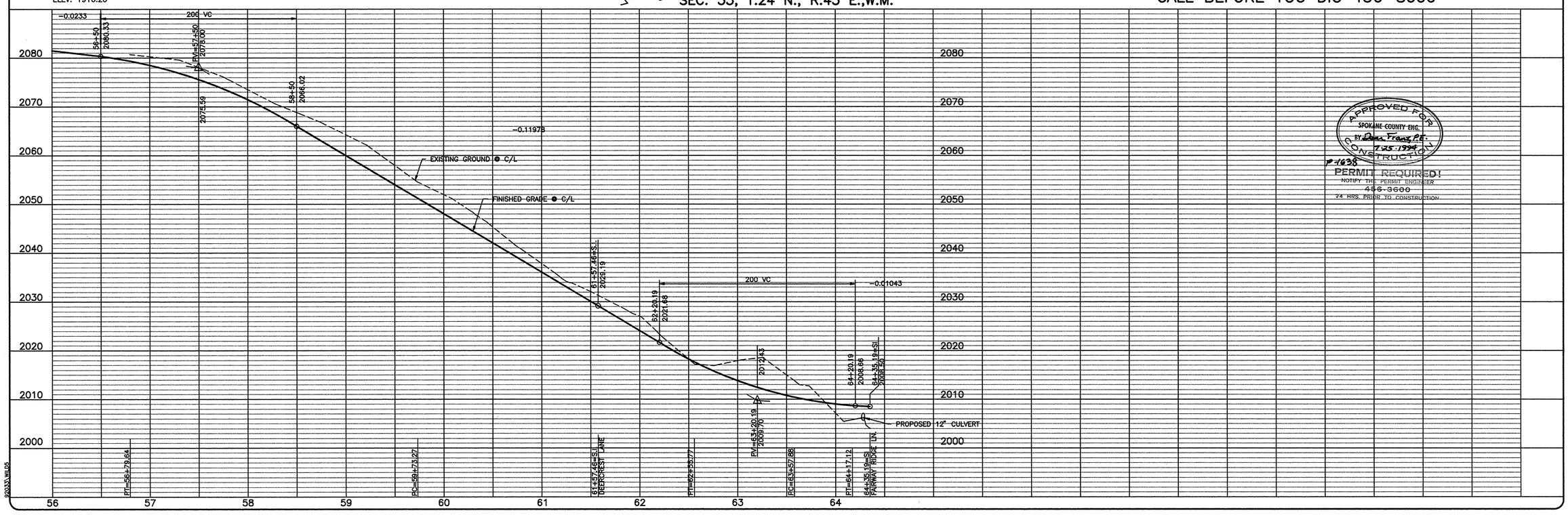
LP6/8-DRAIN-S.TIF



CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	250.00'	282.50'	158.49'	267.71'	64°44'41"
C2	250.00'	59.24'	29.76'	59.10'	13°34'33"

COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Franz P.E. 7-25-1994
P-1638
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

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

DATE 7/18/94
DWN. MWK, RLM2
CHK. RLM
APP. RLM

NO.	DATE	BY	REVISIONS

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Spokane, WA 99204
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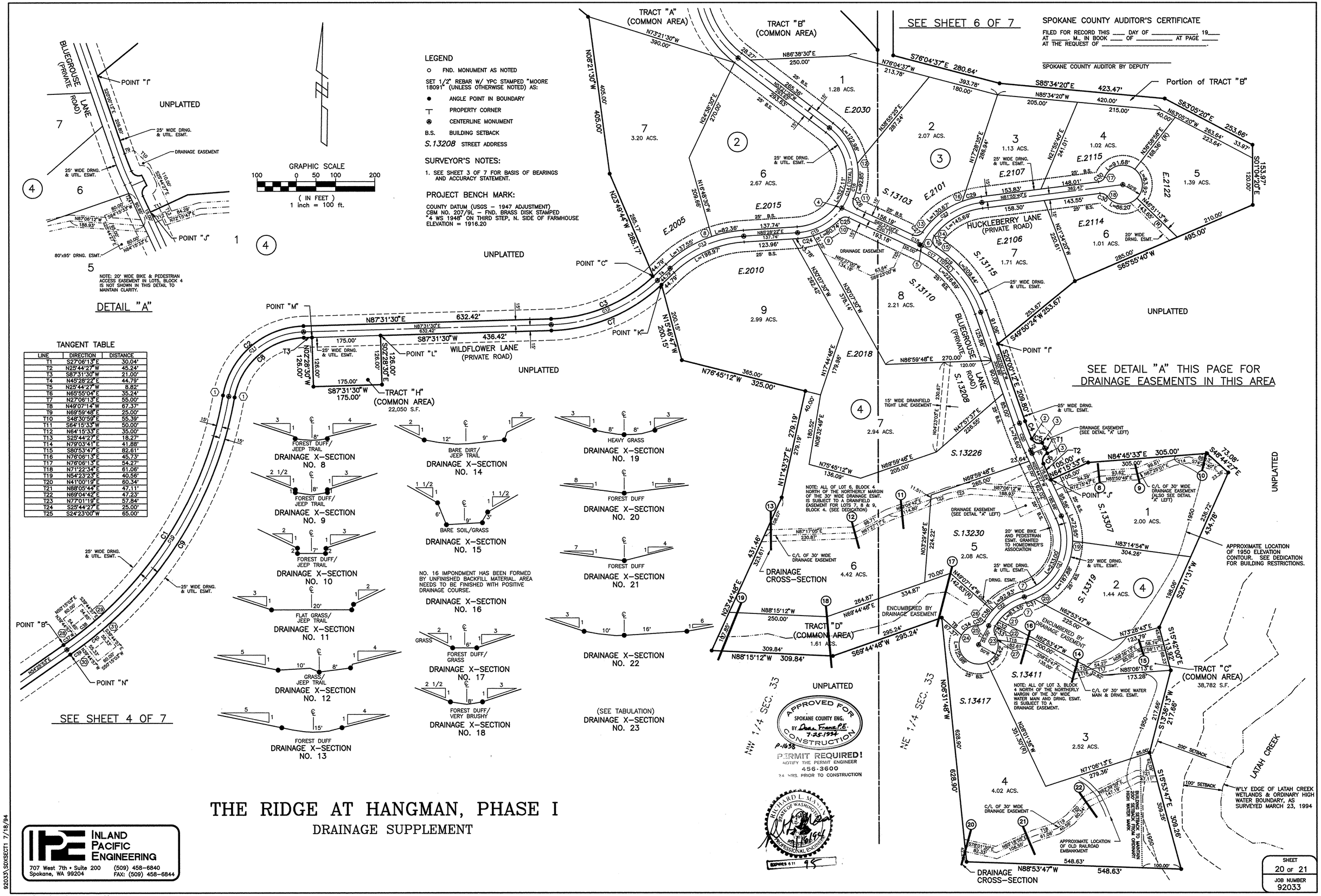
FAX: (509) 455-6844

THE RIDGE AT HANGMAN P.U.D.
WILDFLOWER LANE
STA. 56+79.64 TO FAIRWAY RIDGE LANE
STREET
P-1638

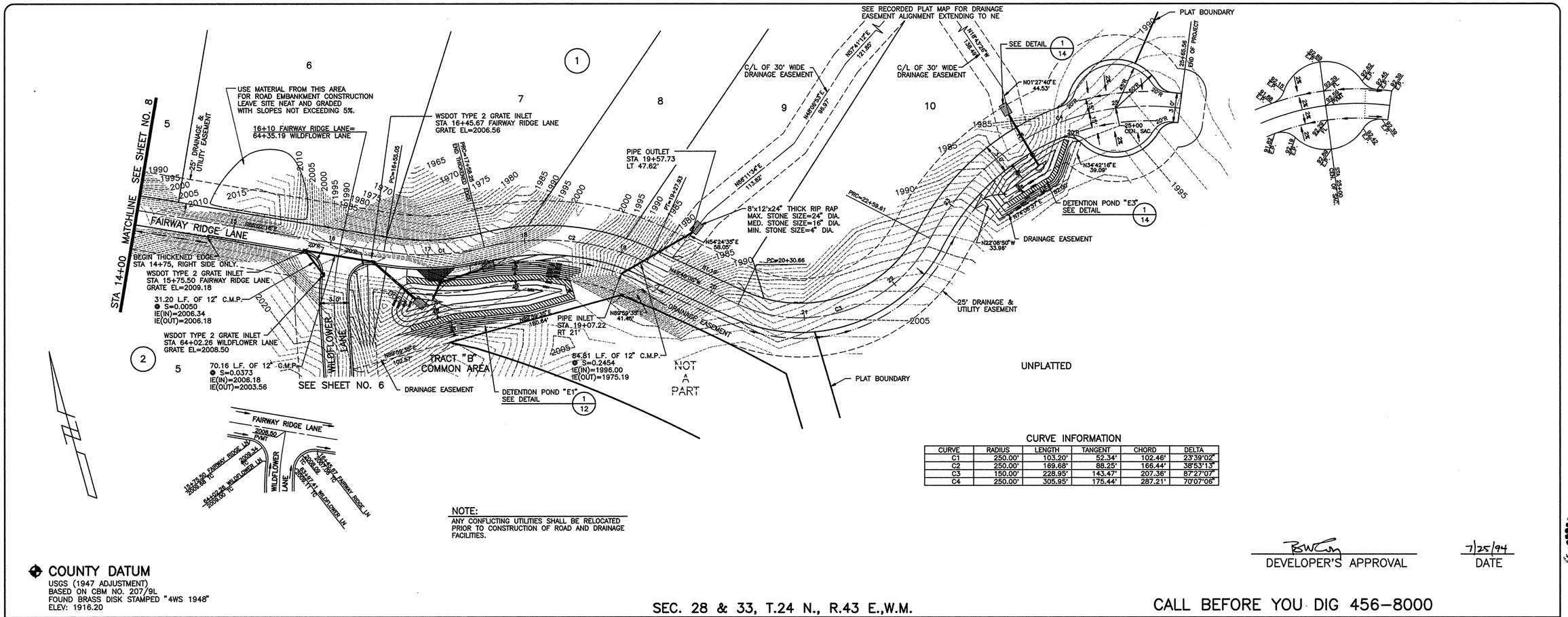
SHEET 6 OF 21
JOB NUMBER 92033

P1638-PP-5.DIT



THE RIDGE AT HANGMAN, PHASE I

DRAINAGE SUPPLEMENT



NOTE:
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CURVE INFORMATION

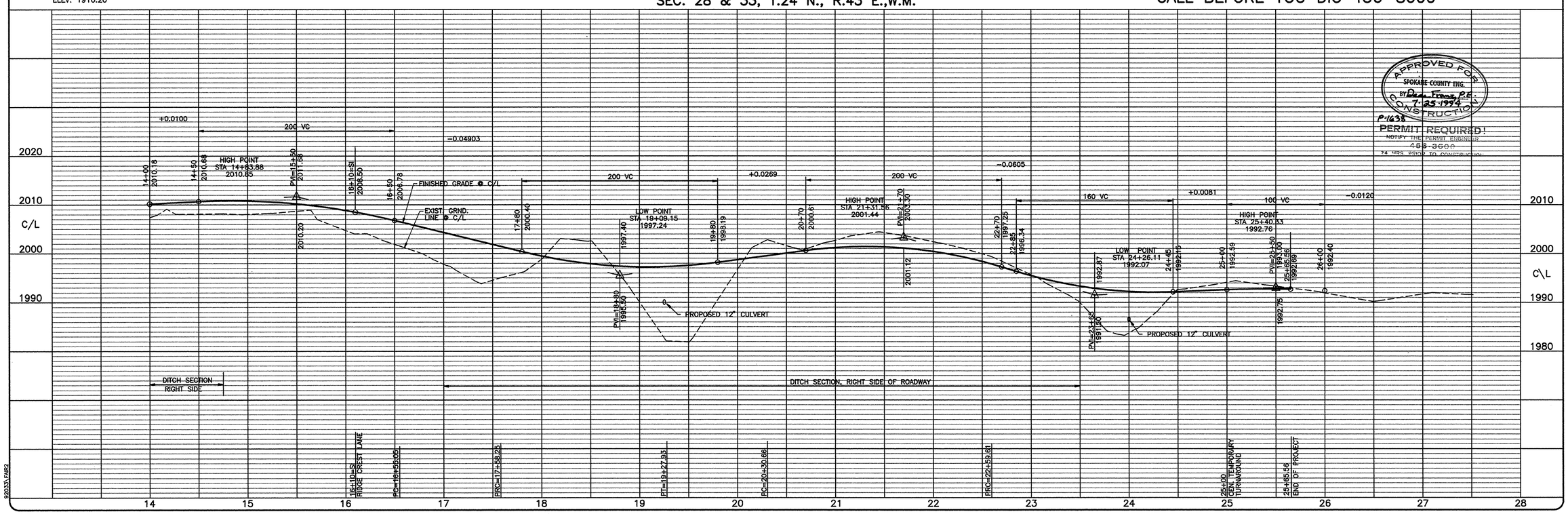
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	250.00'	103.20'	52.34'	102.46'	23°39'02"
C2	250.00'	169.68'	88.25'	166.44'	38°53'13"
C3	150.00'	228.95'	143.47'	207.36'	87°27'07"
C4	250.00'	305.95'	175.44'	287.21'	70°07'06"

COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20

DEVELOPER'S APPROVAL — DATE 7/25/94

SEC. 28 & 33, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456-8000



92033.FAIR2

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

DATE 7/18/94 DWN. MWK RLM2 CHK. RLM APP. RLM

NO.	DATE	BY	REVISIONS

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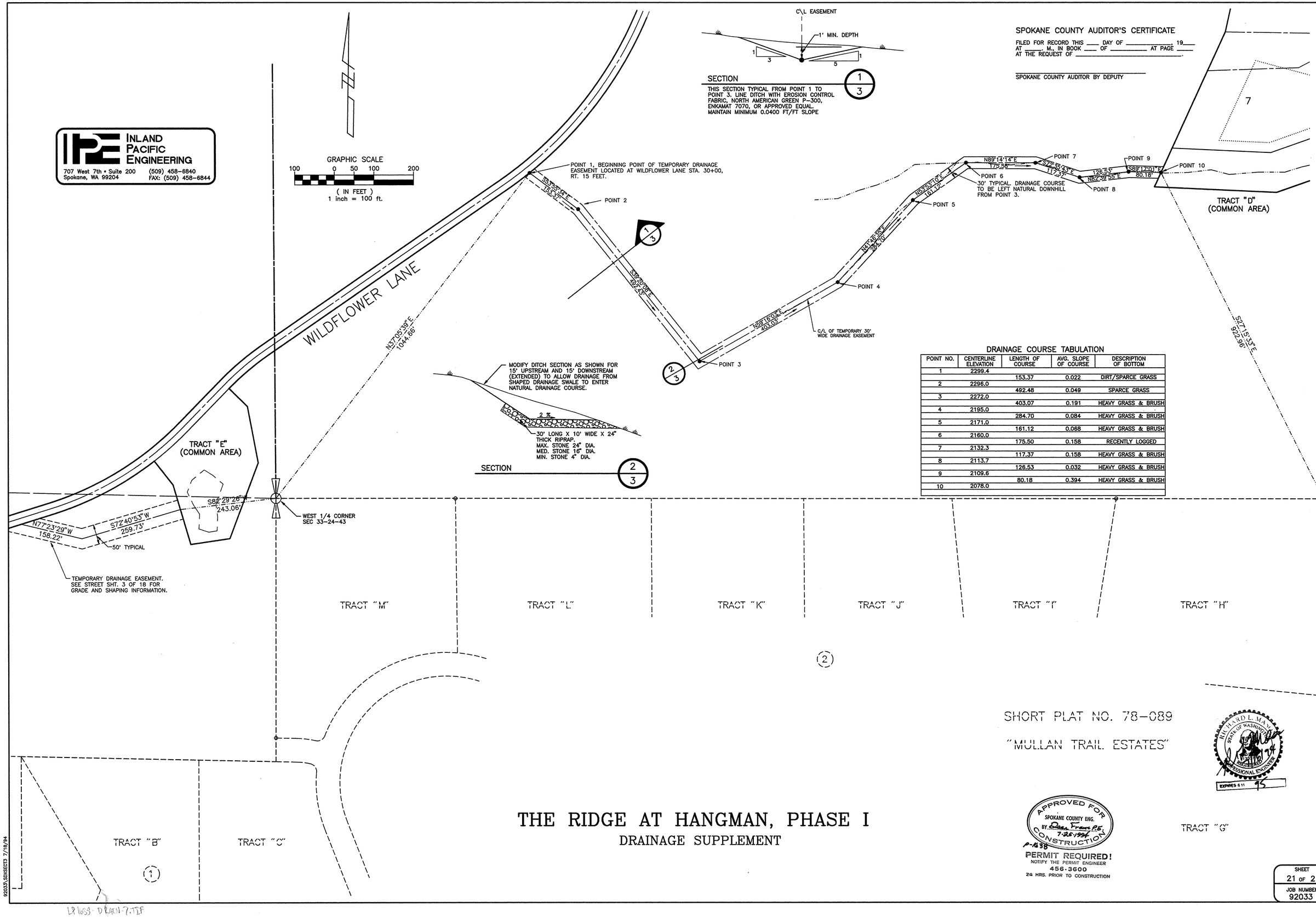
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
FAIRWAY RIDGE LANE
STA 14+00 TO STA 25+65.56
P-1638 STREET

SHEET 7 OF 21
JOB NUMBER 92033

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 (509) 458-6840
Spokane, WA 99204 FAX: (509) 458-6844

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)
1 inch = 100 ft.



SPOKANE COUNTY AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS ____ DAY OF _____, 19____
AT _____ M., IN BOOK ____ OF _____ AT PAGE _____
AT THE REQUEST OF _____.

_____
SPOKANE COUNTY AUDITOR BY DEPUTY

DRAINAGE COURSE TABULATION

POINT NO.	CENTERLINE ELEVATION	LENGTH OF COURSE	AVG. SLOPE OF COURSE	DESCRIPTION OF BOTTOM
1	2299.4			
		153.37	0.022	DIRT/SPARCE GRASS
2	2296.0			
		492.48	0.049	SPARCE GRASS
3	2272.0			
		403.07	0.191	HEAVY GRASS & BRUSH
4	2195.0			
		284.70	0.084	HEAVY GRASS & BRUSH
5	2171.0			
		161.12	0.068	HEAVY GRASS & BRUSH
6	2160.0			
		175.50	0.158	RECENTLY LOGGED
7	2132.3			
		117.37	0.158	HEAVY GRASS & BRUSH
8	2113.7			
		126.53	0.032	HEAVY GRASS & BRUSH
9	2109.6			
		80.18	0.394	HEAVY GRASS & BRUSH
10	2078.0			

SHORT PLAT NO. 78-089

"MULLAN TRAIL ESTATES"

RICHARD L. MASON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-11-95

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Dean Franz P.E.
7-25-1994
P-1638
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

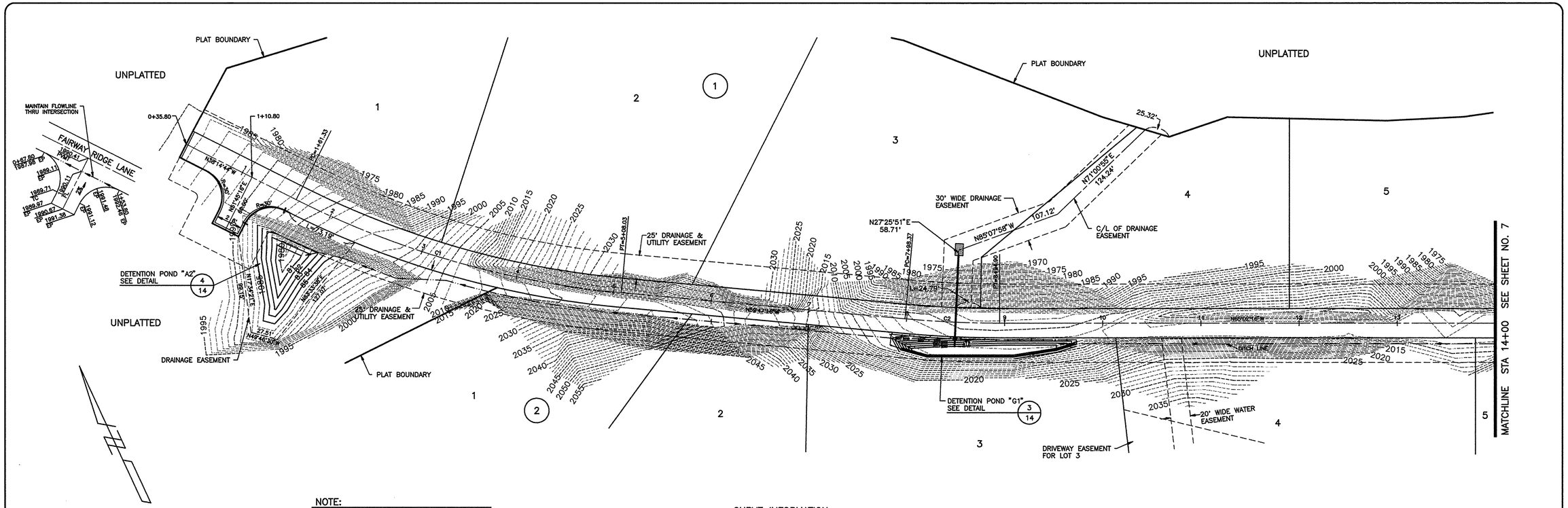
THE RIDGE AT HANGMAN, PHASE I

DRAINAGE SUPPLEMENT

SHEET
21 OF 21
JOB NUMBER
92033

92033\SUVSECT3 7/18/94

LP1653 DRAIN7.TIF



NOTE:
ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

CURVE INFORMATION

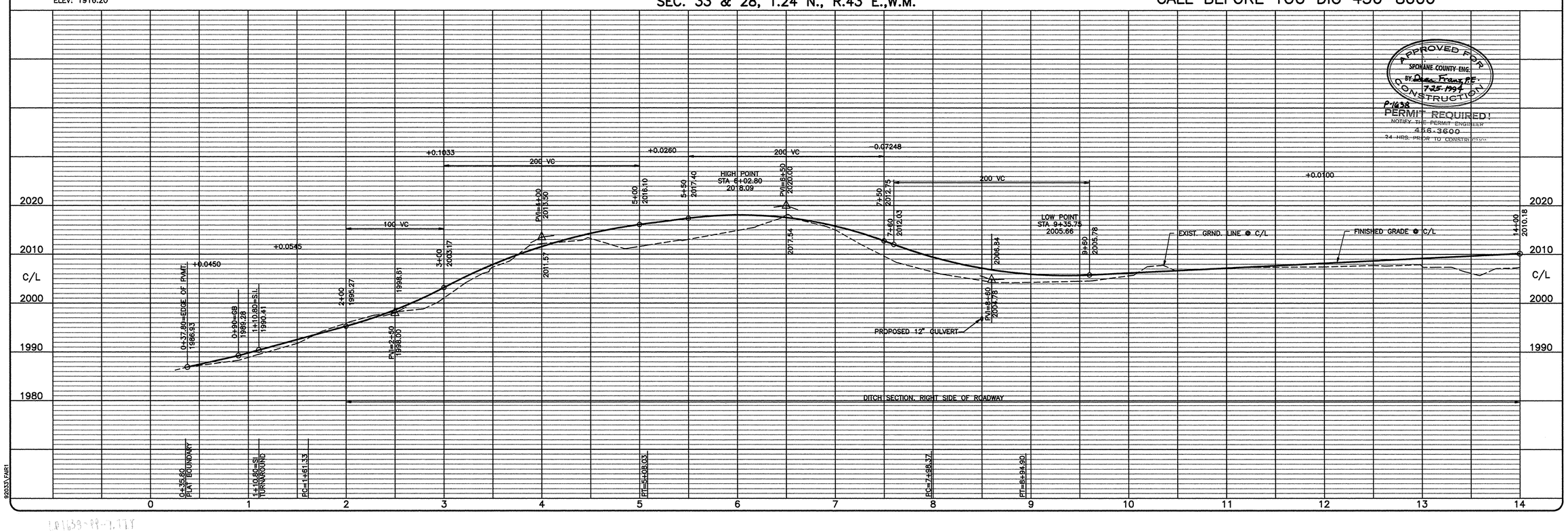
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	922.10'	346.69'	175.42'	344.66'	21°32'32"
C2	1053.44'	96.53'	48.30'	96.49'	05°15'00"

DEVELOPER'S APPROVAL — DATE 7/25/94

COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20

SEC. 33 & 28, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456-8000



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

DATE 7/19/94 DWN. MMK RLM2 CHK. RLM APP. RLM

NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
FAIRWAY RIDGE LANE STREET
CUL-DE-SAC TO STA 14+00
P-1638

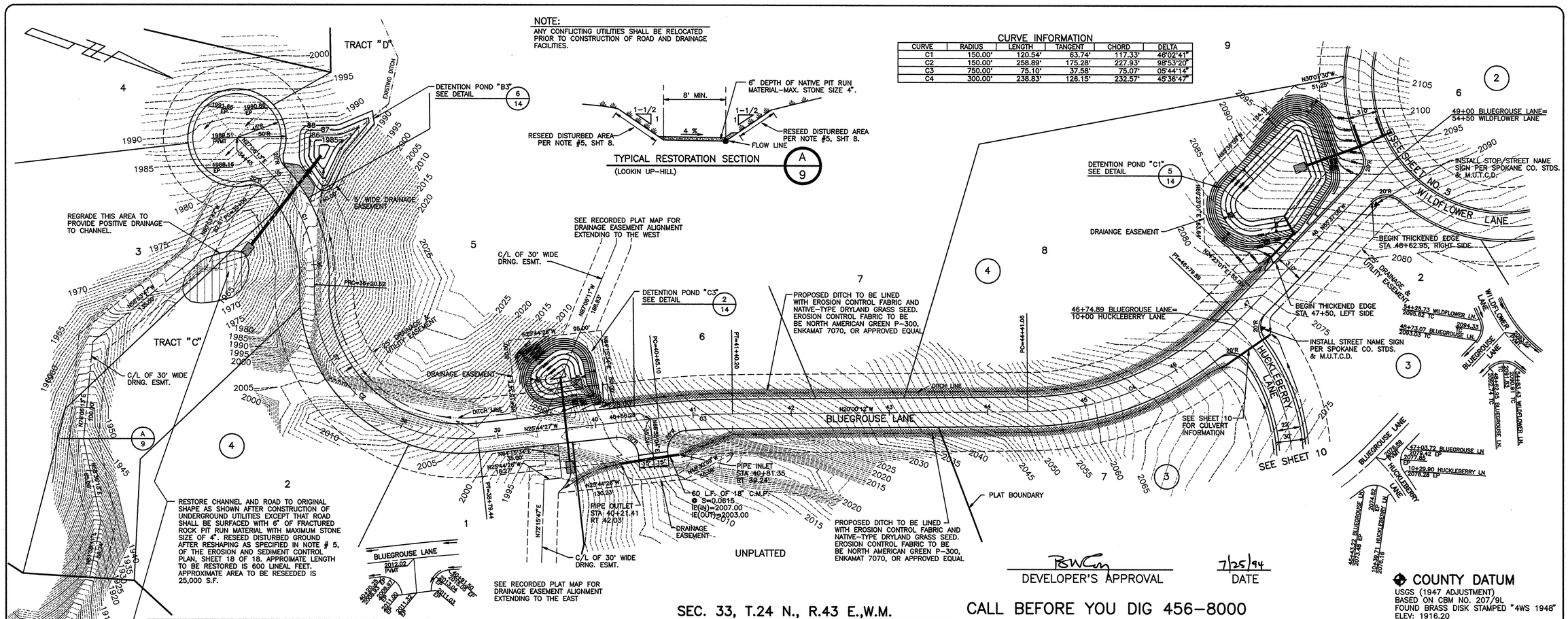
SHEET 8 OF 21
JOB NUMBER 92033

92033.FAIR1

NOTE:
ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

CURVE INFORMATION

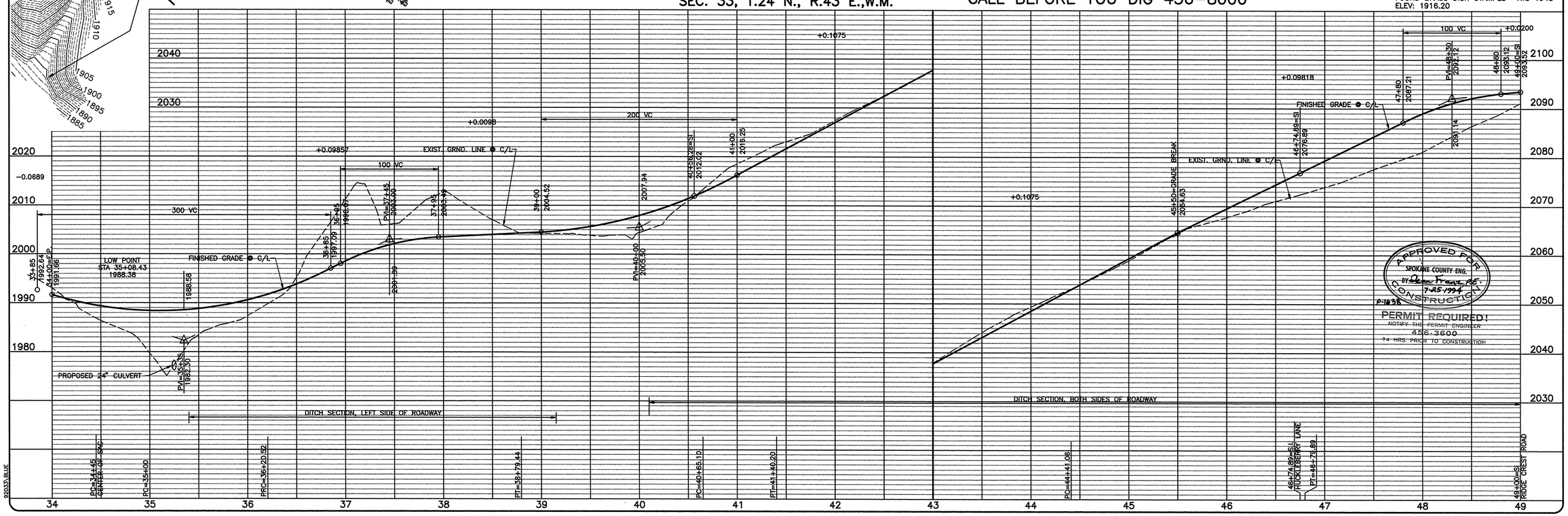
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	150.00'	120.54'	63.74'	117.33'	46°02'41"
C2	150.00'	258.89'	175.28'	227.93'	98°53'20"
C3	750.00'	75.10'	37.58'	75.07'	05°44'14"
C4	300.00'	238.83'	126.15'	232.57'	45°36'47"



SEC. 33, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456-8000

COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20



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

DATE 7/18/94
DWN. MWK RLM2
CHK. RLM
APP. RLM

REVISIONS

NO.	DATE	BY

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
BLUEGROUSE LANE
CUL-DE-SAC TO STA. 49+00
P-1638

STREET

SHEET 9 OF 21

JOB NUMBER 92033

92033\BLUE

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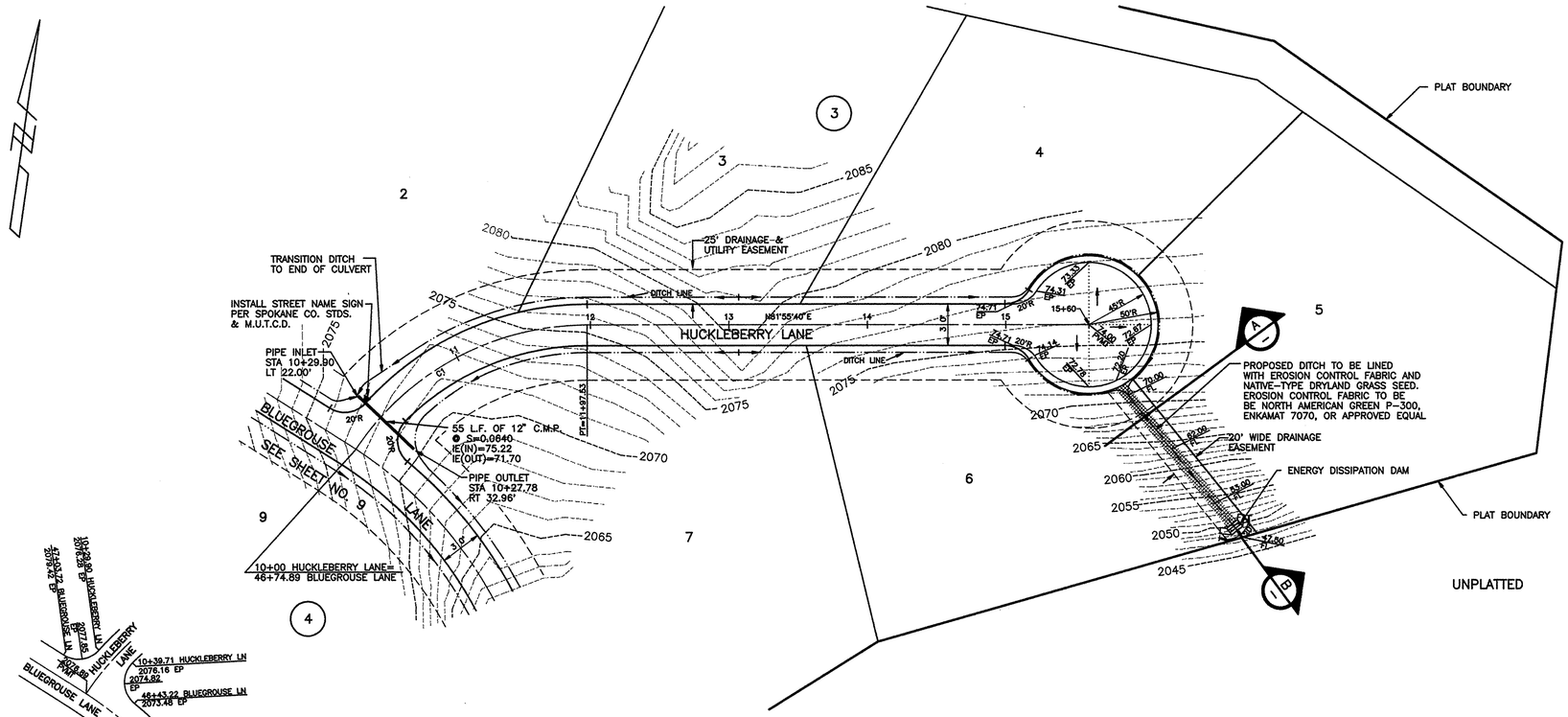
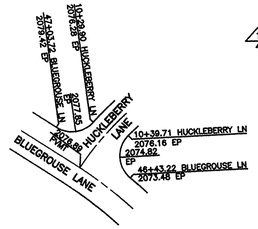
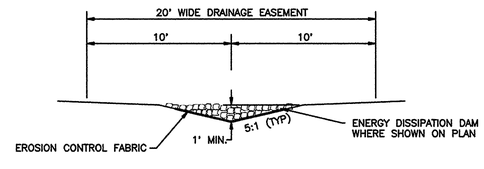
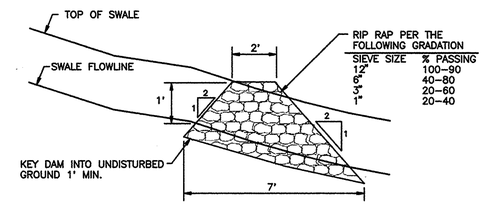






TYPICAL SWALE SECTION (A)
N.T.S.



ENERGY DISSIPATION DAM SECTION (B)
N.T.S.

CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	200.00'	197.53'	107.67'	189.60'	56°35'22"

NOTE:
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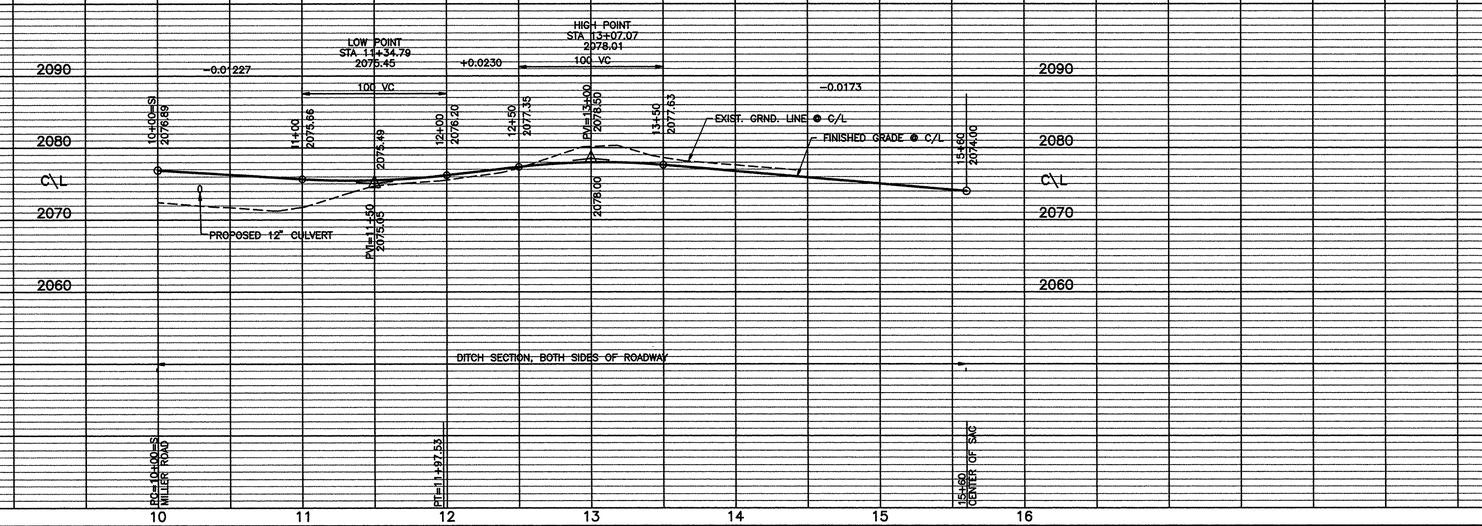
COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20

SEC. 33, T.24 N., R.43 E.,W.M.

DEVELOPER'S APPROVAL — DATE 7/25/94

CALL BEFORE YOU DIG 456-8000



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY: Dean Fraser, PE 7-25-1994
P-1638
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER 456-3600
24 HRS. PRIOR TO CONSTRUCTION

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

DATE 7/18/94 DWN. MWK RLM2 CHK. RLM APP. RLM

REVISIONS

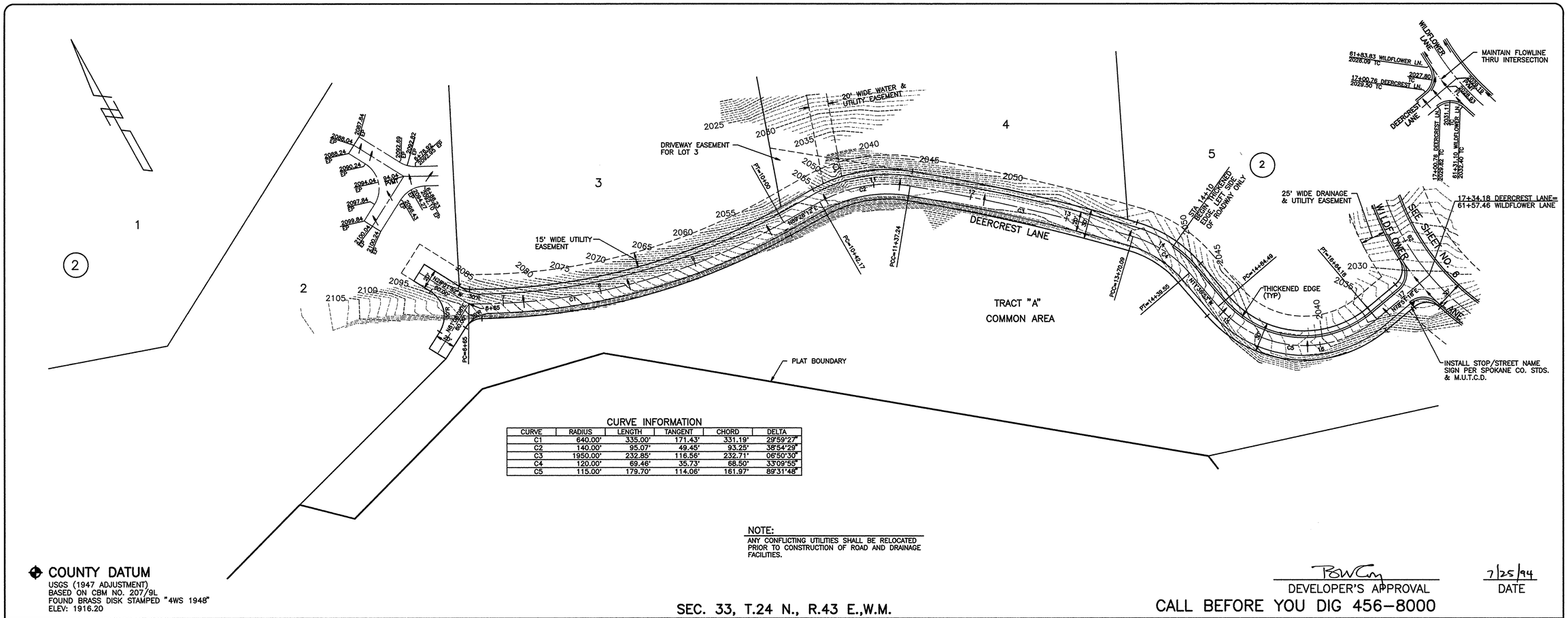
NO.	DATE	BY

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
HUCKLEBERRY LANE STREET
STA. 10+00 TO CUL-DE-SAC
P-1638

SHEET 10 OF 21
JOB NUMBER 92033

92033\HUCK



CURVE INFORMATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	640.00'	335.00'	171.43'	331.19'	29°59'27"
C2	140.00'	95.07'	49.45'	93.25'	38°54'29"
C3	1950.00'	232.85'	116.56'	232.71'	06°50'30"
C4	120.00'	69.46'	35.73'	68.50'	33°09'55"
C5	115.00'	179.70'	114.06'	161.97'	89°31'48"

NOTE:
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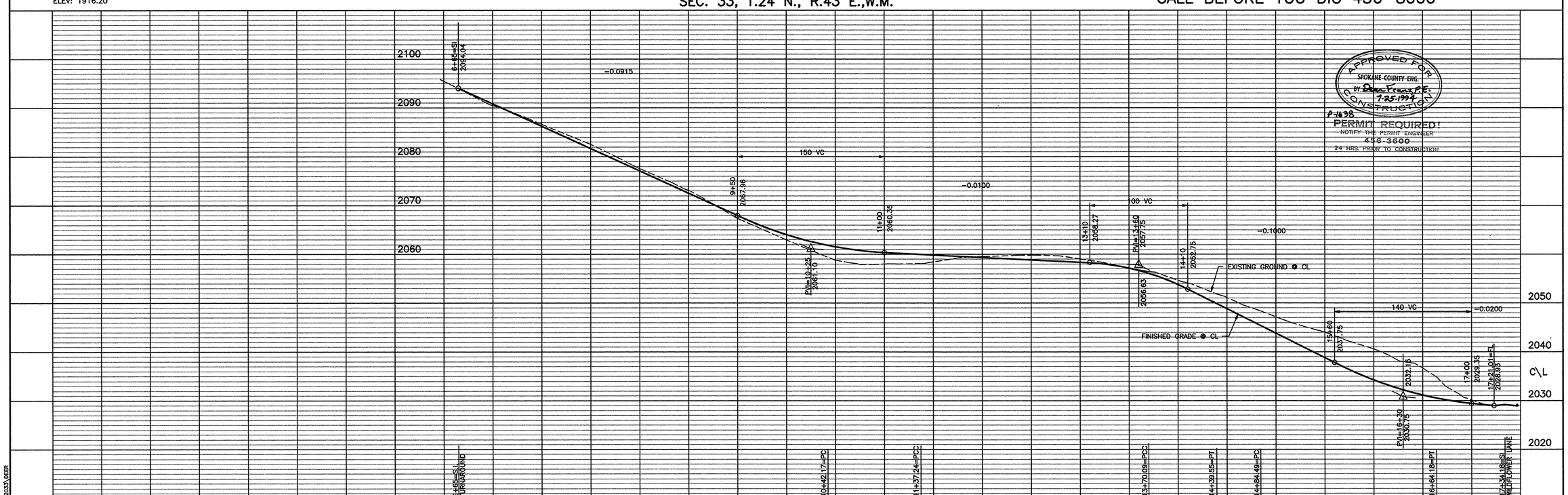
COUNTY DATUM
USGS (1947 ADJUSTMENT)
BASED ON CBM NO. 207/9L
FOUND BRASS DISK STAMPED "4WS 1948"
ELEV: 1916.20

DEVELOPER'S APPROVAL

7/25/94
DATE

SEC. 33, T.24 N., R.43 E.,W.M.

CALL BEFORE YOU DIG 456-8000



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY: Dean Franz, P.E.
7-25-1994
P-1638
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

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

DATE 7/18/94
DWN. MWK RLM2
CHK. RLM
APP. RLM

NO.	DATE	BY	REVISIONS

RICHARD L. MASON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-11

INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200
Spokane, WA 99204
(509) 458-6840
FAX: (509) 458-6844

THE RIDGE AT HANGMAN P.U.D.
DEERCREST LANE
STA. 10+00 TO WILDFLOWER LANE
STREET
P-1638

SHEET 11 OF 21
JOB NUMBER 92033

92033\DEER

LD1638 PP-10.TTT