CASCADE SUMMIT
(PHASE 2)
RESIDENTIAL SUBDIVISION
CITY OF WEST LINN

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "CITY OF WEST LINN STREET/UTILITY DESIGN AND CONSTRUCTION STANDARDS" DATED JULY 14, 1988.

2. PRIOR TO ANY CONSTRUCTION, LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. WHEN ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

3. ORGANIC AND NON-DESIRABLE MATERIALS SHALL BE REMOVED FROM THE CONSTRUCTION AREA AS DIRECTED BY THE ENGINEER.

4. ALL FILL AREAS SHALL BE STRIPPED OF ORGANIC MATERIAL. FILL WILL BE PLACED IN 9-INCH LAYERS AND COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY ACCORDING TO AASHTO T-99 STANDARDS. BASE ROCK IN THE STREET WILL BE COMPACTED TO THE SAME STANDARD. LANDSCAPE AREAS WILL BE COMPACTED TO 90 PERCENT. THE CONTRACTOR WILL PROVIDE DENSITY TESTING, ONE FOR EVERY 10,000 SQUARE FEET OF AREA AND FOR EVERY 2 FEET OF FILL PLACED. COMPACTION REPORTS FROM A REPUTABLE TESTING LAB WILL BE SUPPLIED TO THE ENGINEER.

5. CONTRACTOR SHALL LEAVE ALL AREAS OF THE PROJECT FREE OF DEBRIS AND UNUSED CONSTRUCTION MATERIALS.

   a. AREAS TO BE LANDSCAPED SHALL BE SMOOTHED AND LEFT TO THE GRADES INDICATED ON THE GRADING PLAN, PLUS OR MINUS 0.1 FOOT.

   b. ALL DISTURBED AREAS NOT TO BE LANDSCAPED ARE TO BE SEEDED TO PREVENT EROSION.

6. ANY CHANGES FROM THE APPROVED PLANS SHALL BE REQUESTED BY THE CONTRACTOR IN WRITING. THE DESIGN ENGINEER AND THE CITY OF WEST LINN'S PROJECT ENGINEER MUST APPROVE THE CHANGE PRIOR TO ITS IMPLEMENTATION. COMPLEXITY OF MODIFICATION WILL DETERMINE IF REVISED PLANS ARE REQUIRED.

7. STANDARD SIDEWALK RAMP CURB-DROPS SHALL BE LOCATED AT MIDPOINTS OF CURB RETURNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

8. THE FOLLOWING CITY OF WEST LINN DETAILS SHALL BE USED AT LOCATIONS AS SPECIFIED IN THE PLANS:

   COMMERCIAL DRIVEWAY - DWG. NO. DW-260
   STANDARD MANHOLE - DWG. NO. MH-209
   SHALLOW MANHOLE - DWG. NO. MH-210
   MANHOLE FRAME & COVER - DWG. NO. MH-212
   GUTTER INLET 2 1/2 A - DWG. NO. GI-214
   GUTTER INLET COVER - DWG. NO. GI-215
   CURB & GUTTER - DWG. NO. CG-265
   SIDEWALK RAMP - DWG. NO. CS-271
   STREET BARRICADE TYPE III - DWG. SB-276
   CENTERLINE SURVEY MONUMENTS - SM-278
   PIPE BEDDING & BACKFILL DETAILS - DWG. NO. PB-280
   FIRE HYDRANT - DWG. NO. FH-300
   BLOWOFF - DWG. NO. BO-301
   THRUST BLOCKING - DWG. NO. TB-302
   WATER METER - DWG. NO. WM-304
   STANDARD CUL-DE-SAC DWG. NO. CD-279

STORM/SANITARY SEWERS:

9. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WEST LINN'S STANDARD PLANS. PRECAST BASES WILL NOT BE PERMITTED FOR MANHOLES.

10. TRENCH BACKFILL IN PAVED AREAS WILL BE 3/4-INCH TO 0-INCH CRUSHED ROCK COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-99.

11. ALL SANITARY SEWER AND STORM PIPE SHALL BE PVC IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3033 AND D-3034.

12. SANITARY SEWER SERVICES SHALL BE 4-INCH PVC WITH A MINIMUM SLOPE OF 2%.

13. PRIOR TO ACCEPTANCE, ALL PUBLIC SANITARY AND STORM SEWERS SHALL BE AIR TESTED IN ACCORDANCE WITH THE CITY OF WEST LINN'S REQUIREMENTS. PVC PIPE SHALL ALSO BE TESTED FOR DEFLECTION.

14. MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. FINAL ELEVATIONS SHALL BE SET TO MATCH CONSTRUCTED FINISH GRADE.

15. ALL STORM SEWER PIPES OVER 12" IN DIAMETER SHALL BE CONCRETE, ASTM C-14 CLASS III, BELL AND SPIGOT WITH RUBBER O- RING.

WATERLINES:

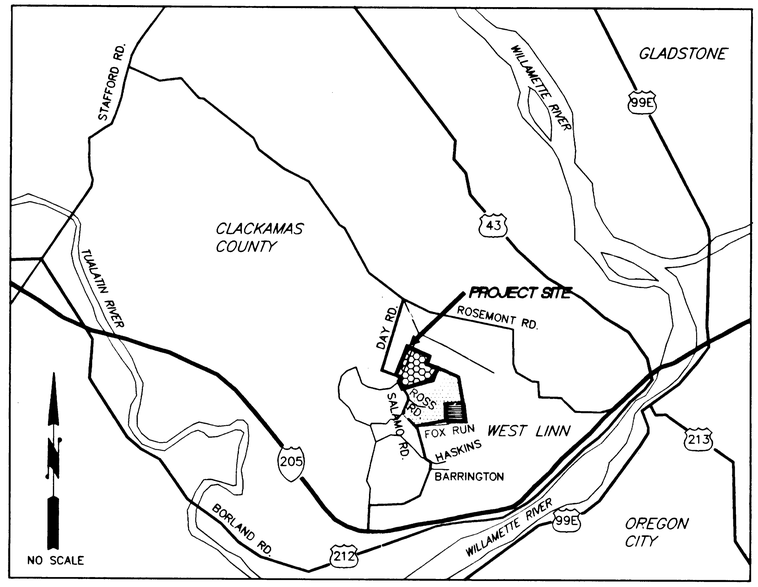
15. ALL WATER PIPE AND FITTINGS SHALL BE DUCTILE CAST IRON CLASS 52 AND CONFORM TO STANDARD CITY SPECIFICATIONS AND DETAILS.

16. WATERLINES SHALL BE PRESSURE TESTED FOLLOWING COMPLETION. PRESSURE TESTS AT THE LOWEST POINT IN TEST SECTION SHALL BE IN ACCORDANCE TO THE CITY OF WEST LINN'S STANDARDS. LEAKAGE MUST BE WITHIN ALLOWABLE LEAKAGE LIMITS. SERVICE LINES WILL ALSO BE TESTED TO THE METER LOCATION IF INSTALLED BY THE CONTRACTOR.

17. PRIOR TO BEING PLACED INTO SERVICE, THE WATERLINE SHALL BE FLUSHED, STERILIZED AND FLUSHED AGAIN ALL IN ACCORDANCE WITH STANDARD METHODS OF THE HEALTH DIVISION, DEPARTMENT OF HUMAN RESOURCES, STATE OF OREGON.

18. PRIOR TO ALLOWING HUMAN CONSUMPTION OF THE WATER FROM THE NEW WATERLINE, A SAMPLE SHALL BE TAKEN AND TESTED FOR BACTERIOLOGICAL QUALITY. RESULTS MUST BE WITHIN STANDARDS OF THE STATE OF OREGON.

19. CONCRETE THRUST BLOCKING SHALL BE PROVIDED AT ALL WATERLINE FITTINGS AS REQUIRED BY CITY STANDARDS. BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH AND CLEAR OF JOINT ACCESSORIES. BEARING AREA OF THRUST BLOCK SHALL BE COMPUTED ON THE BASIS OF ALLOWABLE SOIL BEARING PRESSURE.



VICINITY MAP

BENCH MARK

BENCH MARK: CITY OF WEST LINN BENCH MARK "B" IS 93.5' EAST AND 17.0' SOUTH OF EDGE OF PAVEMENT FROM 5-WAY INTERSECTION OF ROSEMONT/SANTA ANA. 3" CAP ON PIPE WITH YELLOW WATER WORKS LID. ELEV.= 667.22.

UTILITY ONE-CALL	246-6699
PORTLAND GENERAL ELECTRIC	232-2344
IN CASE OF EMENRGENCY CONTACT CITY OF WEST LINN	656-3535

THE CONTRACTOR, IN LOCATING AND PROTECTING UNDERGROUND UTILITIES, MUST COMPLY WITH THE REGULATIONS OF O.R.S. 757.541 TO 757.571.

INDEX OF SHEETS

1. TITLE SHEET
2. STREET AND STORM SEWER PLAN
3. STREET AND STORM PROFILES
4. STREET AND STORM PROFILES
5. STORM PROFILES
6. GRADING, EROSION CONTROL & TREE PRESERVATION PLAN
7. EROSION CONTROL DETAILS & NOTES
8. SANITARY SEWER & WATER PLAN
9. SANITARY SEWER PROFILES
10. SANITARY SEWER PROFILES
11. COMPOSITE UTILITY PLAN
12. DETAILS

These As-Built Plans were compiled from survey data, data collected from others, and periodic observation during construction. It is suggested that these plans be used in conjunction with field verification of location and elevations of improvements in question. These plans are an accurate record of public improvements to the best of my information, knowledge and belief.

Signature

8/11/94
Date

AS BUILT

BY: D. Singer DATE: 8-12-94

LEGEND

PROPOSED

- FIRE HYDRANT
- REDUCER
- BLOWOFF (B.O.) ASSEMBLY
- AIR RELEASE VALVE
- CLEANOUT
- MANHOLE
- GATE VALVE
- BUTTERFLY VALVE
- WATER METER
- SIGN
- INLET
- FENCE
- DITCH
- UTILITY EASEMENT
- SLOPE EASEMENT LINE
- CENTERLINE

8/11/93

M.F. KEKHIA	8/93	
Designed		Date
D.F.M.	8/93	
Drawn		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1989 DALE C. ROSS

EXP. 12/31/94

TITLE SHEET

CASCADE SUMMIT
PHASE 2
RESIDENTIAL SUBDIVISION
CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

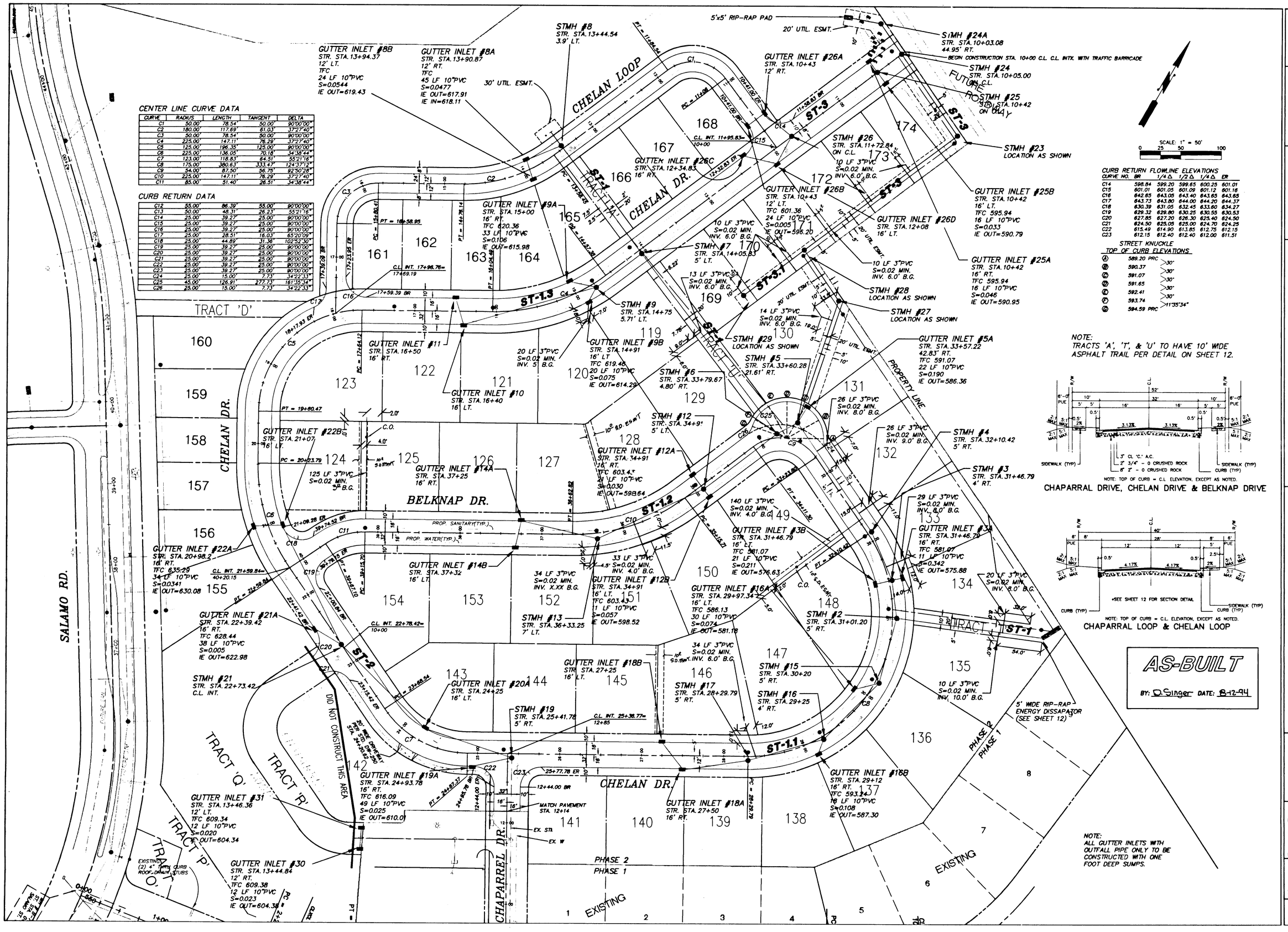
otak incorporated

1 OF 12
Sheet No.

4434
Project No.

CASCADE SUMMIT RESIDENTIAL II

Cascade Summit - residential



CENTER LINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	50.00'	78.54'	50.00'	90°00'00"
C2	180.00'	117.69'	61.03'	37°27'40"
C3	50.00'	78.54'	50.00'	90°00'00"
C4	225.00'	147.11'	76.29'	37°27'40"
C5	125.00'	196.35'	125.00'	90°00'00"
C6	225.00'	136.05'	70.18'	34°38'44"
C7	123.00'	118.83'	64.51'	55°21'16"
C8	175.00'	380.63'	333.47'	124°37'12"
C9	54.00'	87.50'	56.75'	92°50'28"
C10	225.00'	147.11'	76.29'	37°27'40"
C11	85.00'	51.40'	26.51'	34°38'44"

CURB RETURN DATA

C12	55.00'	86.39'	55.00'	90°00'00"
C13	50.00'	48.31'	26.23'	55°21'16"
C14	25.00'	39.27'	25.00'	90°00'00"
C15	25.00'	39.27'	25.00'	90°00'00"
C16	25.00'	39.27'	25.00'	90°00'00"
C17	25.00'	28.51'	16.03'	65°20'09"
C18	25.00'	44.89'	31.36'	102°52'30"
C19	25.00'	39.27'	25.00'	90°00'00"
C20	25.00'	39.27'	25.00'	90°00'00"
C21	25.00'	39.27'	25.00'	90°00'00"
C22	25.00'	39.27'	25.00'	90°00'00"
C23	25.00'	39.27'	25.00'	90°00'00"
C24	25.00'	15.00'	7.73'	34°22'33"
C25	45.00'	126.91'	277.73'	161°35'34"
C26	25.00'	15.00'	7.73'	34°22'33"

SCALE: 1" = 50'
0 25 50 100

CURB RETURN FLOWLINE ELEVATIONS

CURVE NO.	BR	1/4 Δ	1/2 Δ	1/4 Δ	ER
C14	598.84	599.20	599.85	600.25	601.01
C15	601.01	601.05	601.09	601.12	601.16
C16	642.65	643.05	643.40	643.65	643.65
C17	643.73	643.80	644.00	644.20	644.37
C18	630.39	631.05	632.45	633.60	634.27
C19	629.32	629.80	630.25	630.55	630.53
C20	627.85	627.20	626.30	625.40	624.50
C21	624.50	625.05	625.00	624.70	624.25
C22	615.49	614.90	613.85	612.75	612.15
C23	612.15	612.40	612.40	612.00	611.51

STREET KNUCKLE TOP OF CURB ELEVATIONS

Ⓐ	589.20 PRC	30°
Ⓑ	590.37	30°
Ⓒ	591.07	30°
Ⓓ	591.65	30°
Ⓔ	592.41	30°
Ⓕ	593.74	11°35'34"
Ⓖ	594.59 PRC	

NOTE:
TRACTS 'A', 'T', & 'U' TO HAVE 10' WIDE ASPHALT TRAIL PER DETAIL ON SHEET 12.

NOTE: TOP OF CURB = C.L. ELEVATION, EXCEPT AS NOTED.

CHAPARRAL DRIVE, CHELAN DRIVE & BELKNAP DRIVE

NOTE: TOP OF CURB = C.L. ELEVATION, EXCEPT AS NOTED.

CHAPARRAL LOOP & CHELAN LOOP

AS-BUILT

BY: D. Singer DATE: 8-12-94

NOTE:
ALL GUTTER INLETS WITH OUTFALL PIPE ONLY TO BE CONSTRUCTED WITH ONE FOOT DEEP SUMPS.

M.F. KEKHIA	8/93	
Designed		Date
D.F.M.	8/93	
Design Tech.		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1990 DALE C. ROSS
EXP. 12/31/94

STREET AND STORM SEWER PLAN

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

otak incorporated
17355 S.W. Boones Ferry Rd., Lake Oswego, OR 97035 (503)635-3511
1001 S.W. 5th Street, Portland, OR 97204 (503)223-6107
30 Central Way, # 200 Kirkland, WA 98033 (206)822-4446

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Project No.

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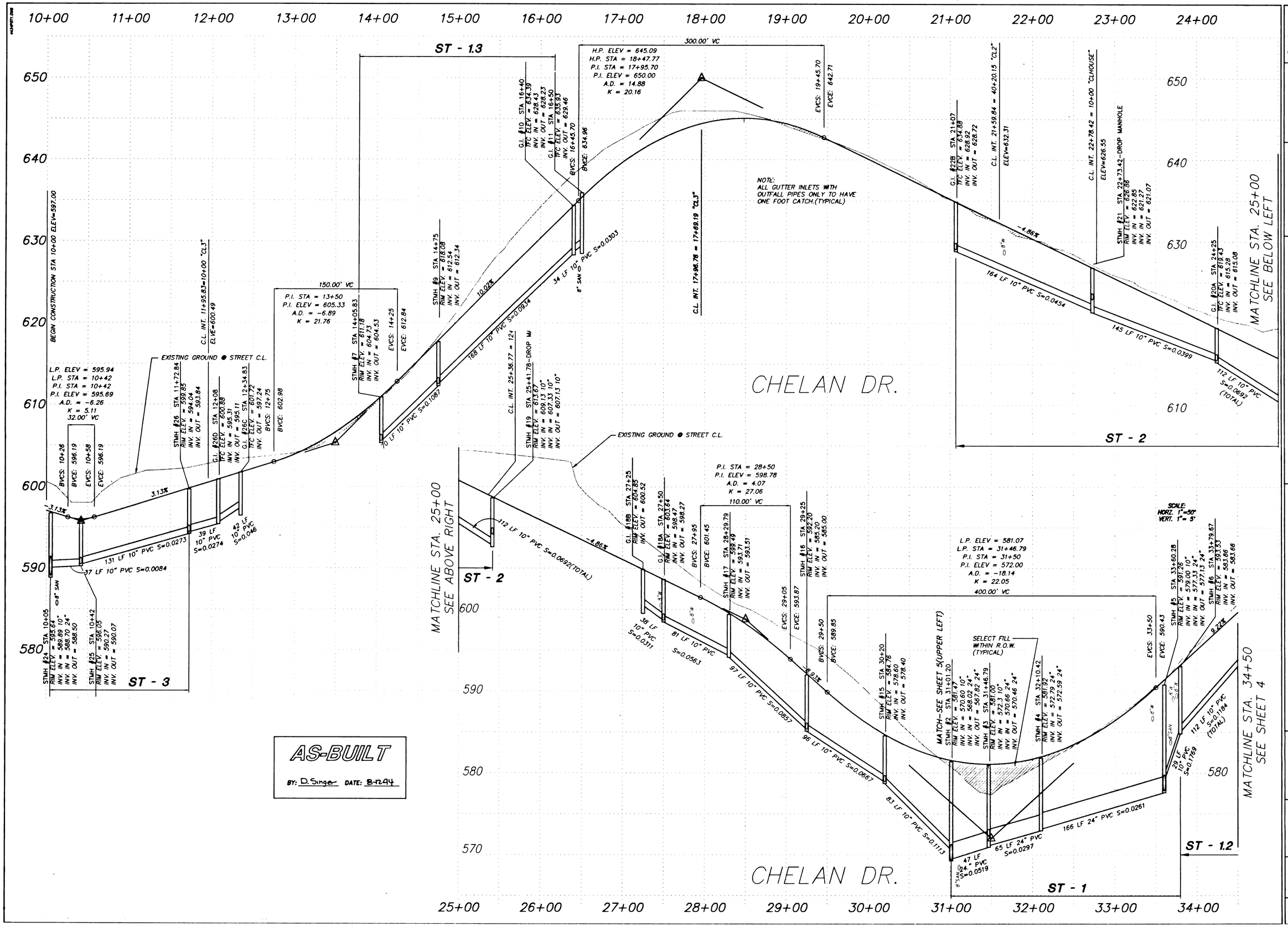

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REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1990 DALE C. ROSS

EXP. 12/31/94

STREET AND STORM PROFILES

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION

CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
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Project No.

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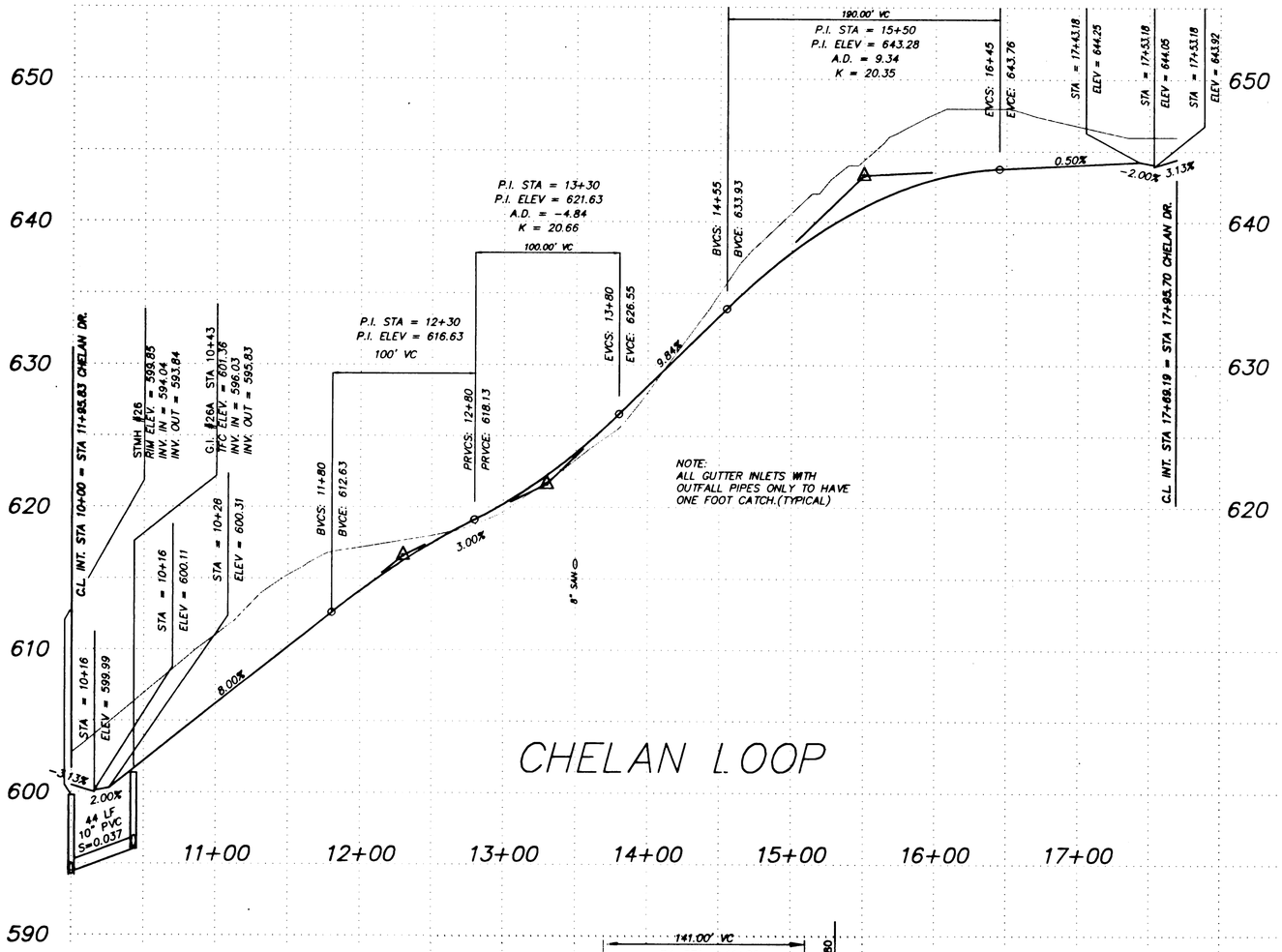
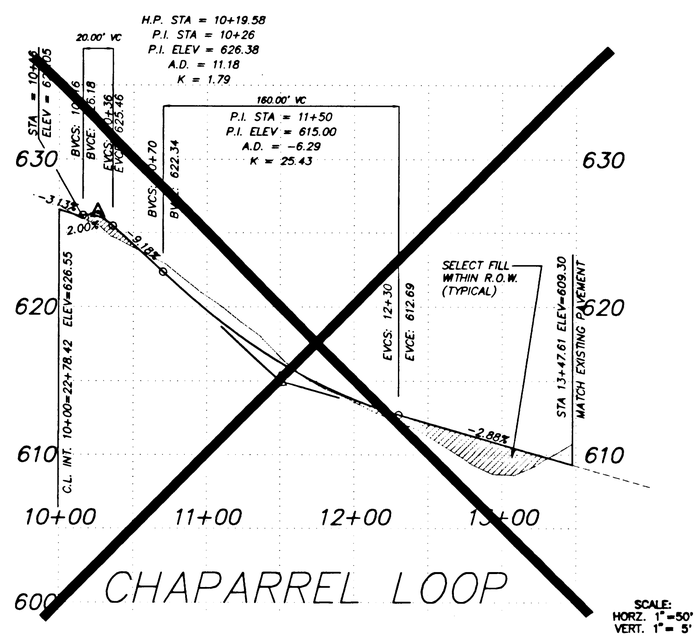
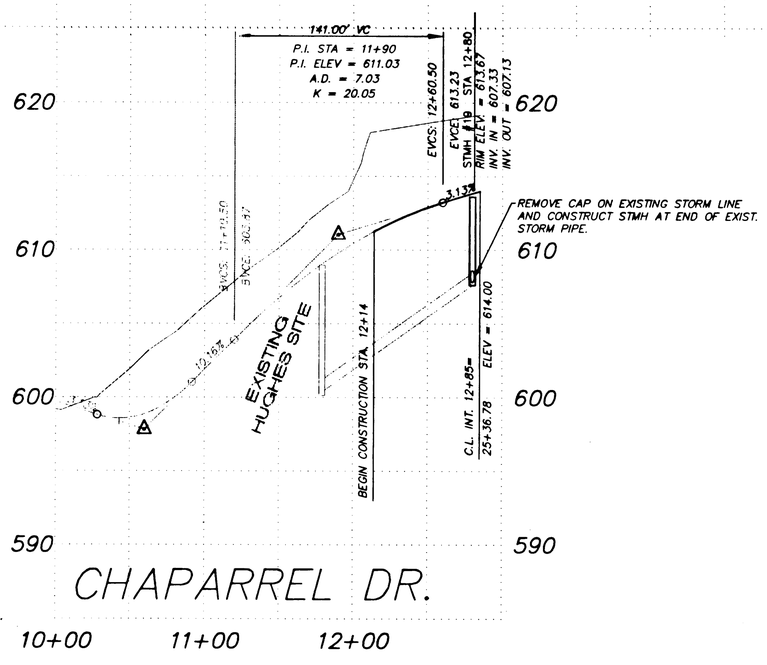
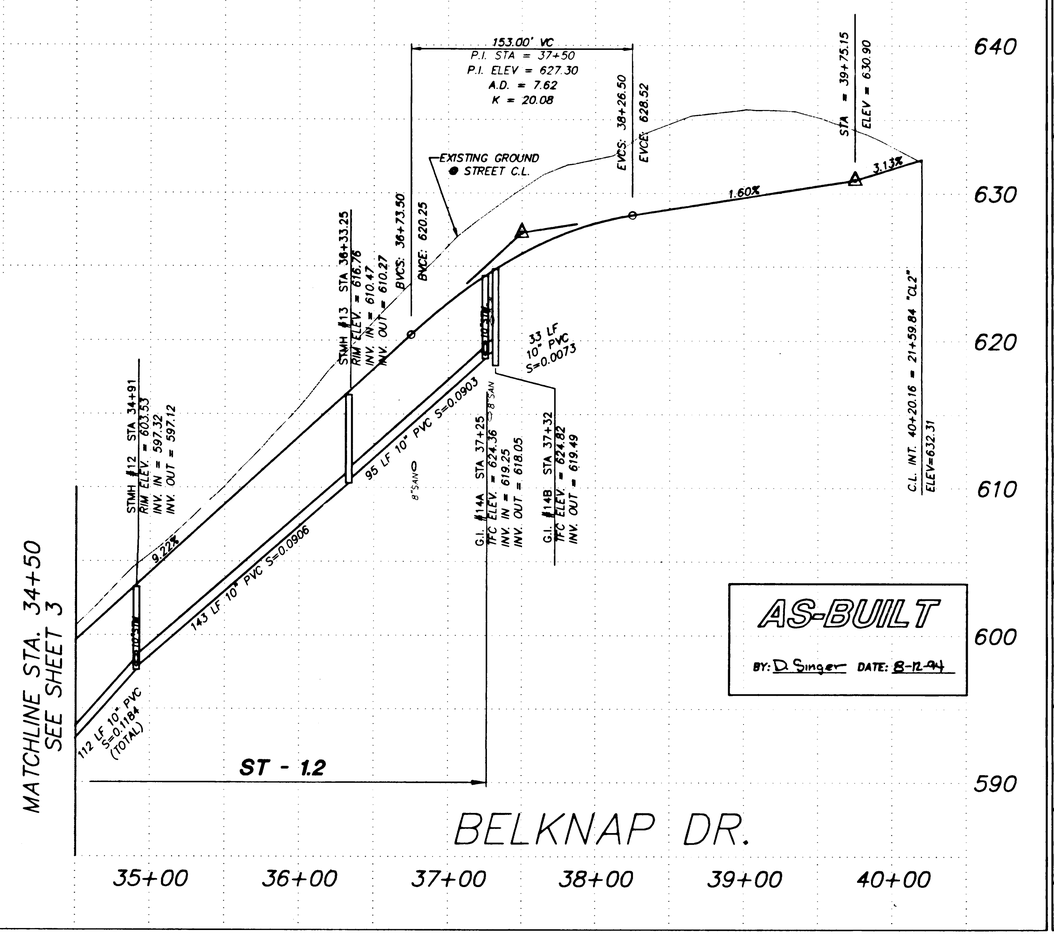




SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'





AS-BUILT
BY: D. Singer DATE: 8-12-94

M.F. KEKHIA	8/93	
Designed		Date
D.F.M.	8/93	
Drawn		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1978 DALE C. ROSS

EXP. 12/31/94

STREET AND STORM PROFILES

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

otak Incorporated
17355 S.W. Boones Ferry Rd. Lake Oswego, OR 97035 (503)635-3618
1835 E. 5th Street, Vancouver, WA 98661 (206)696-0507
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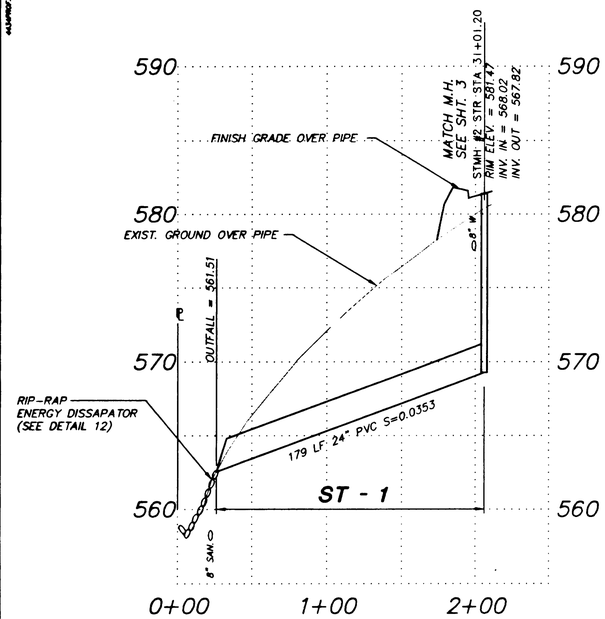

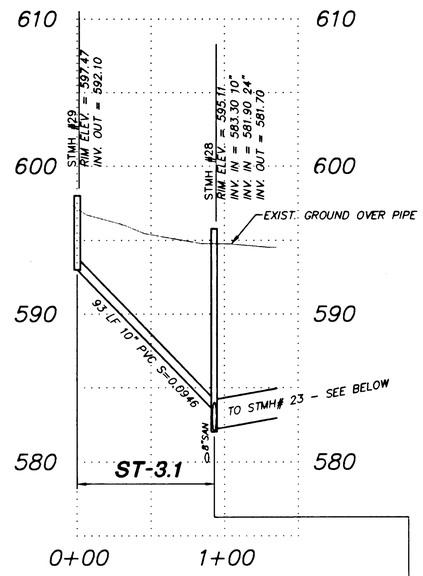

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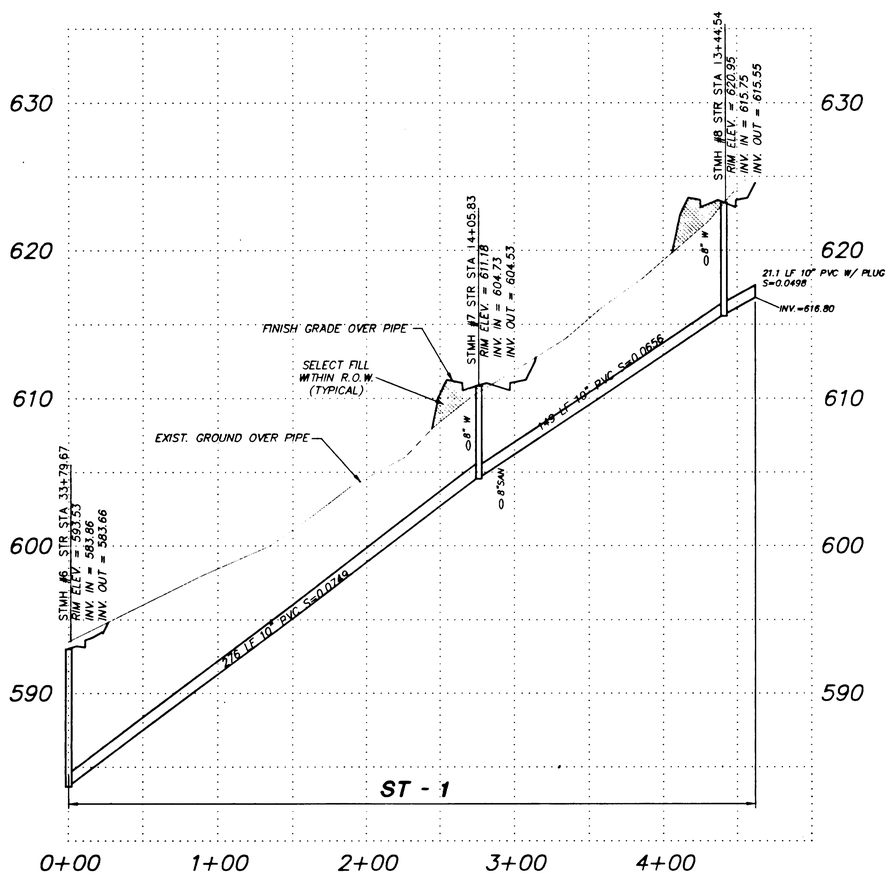
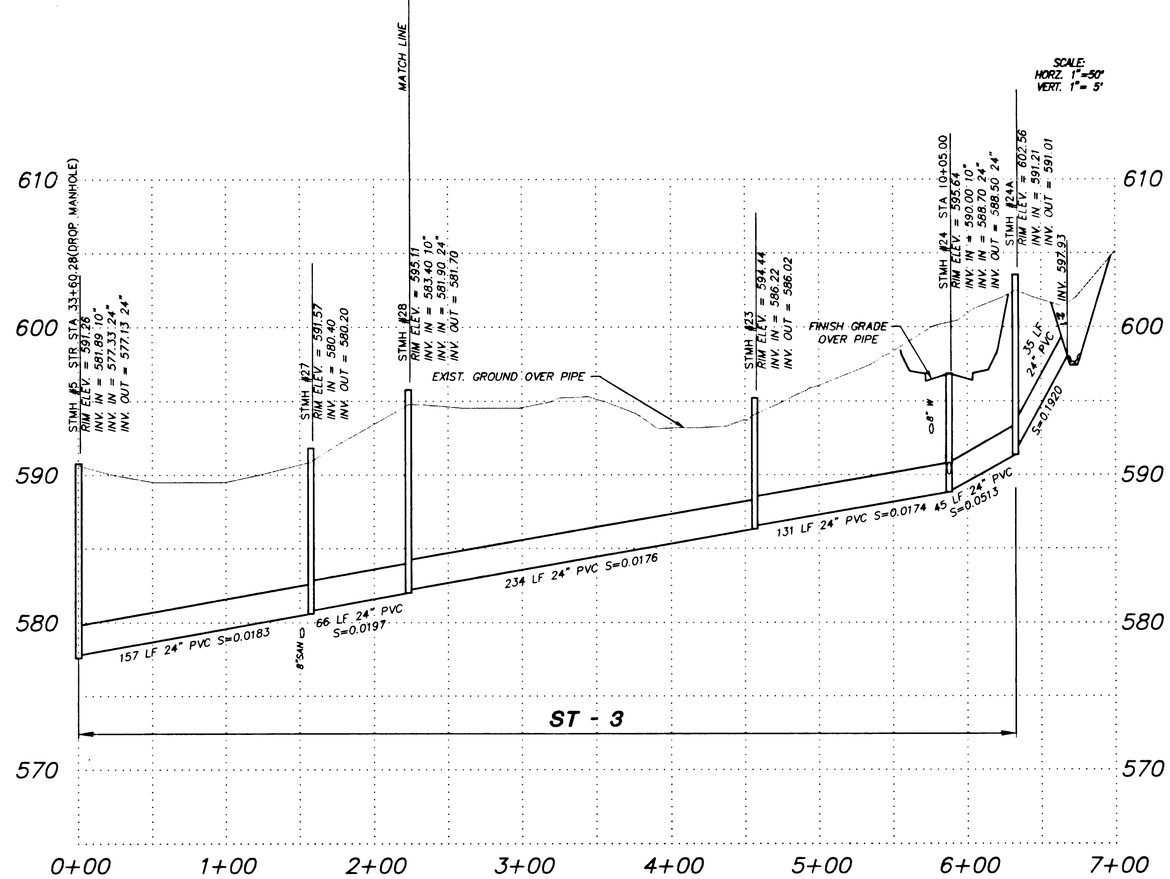
BY: D. SILLGER DATE: 8-12-94





M.F. KEKHIA	8/93	
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D.F.M.	8/93	
Drawn		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1980 DALE C. ROSS

EXP. 12/31/94

STORM PROFILES

CASCADE SUMMIT
PHASE 2
RESIDENTIAL SUBDIVISION
CITY OF WEST LINN

KOSS
BROD
GOODRICH
AND
ASSOCIATES, INC.
19363 WILLAMETTE DR #509
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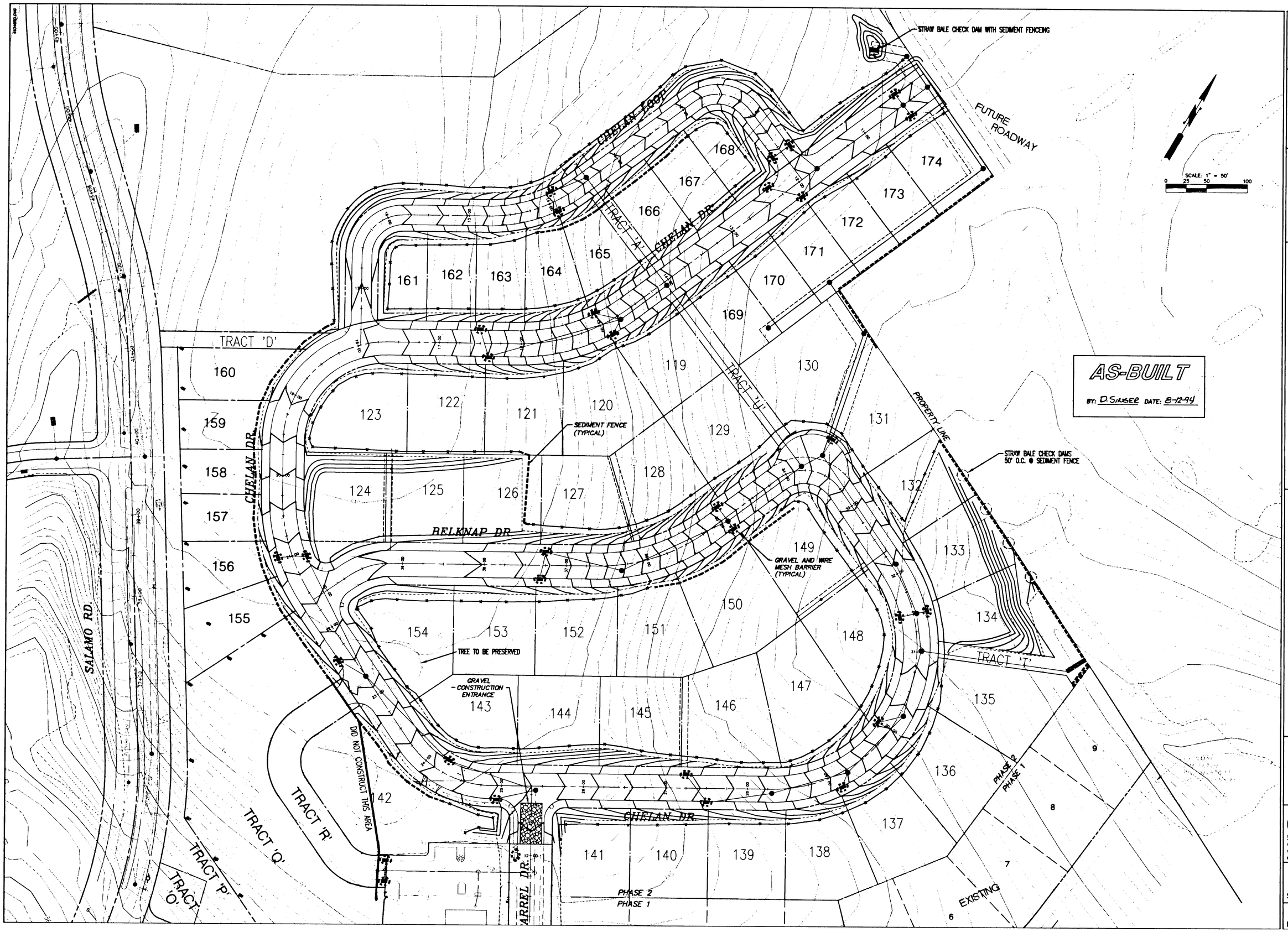

M.F. KEKHIA	8/93	
Designed		Date
D.F.M.	8/93	
Design Tech.		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15411 OREGON JULY 25, 1990 DALE C. ROSS

EXP. 12/31/94

GRADING, EROSION CONTROL, AND TREE PRESERVATION PLAN

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION

CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

otak Incorporated

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Sheet No.

4434
Project No.

4434ESDT.DWG

EROSION CONTROL GENERAL NOTES

APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, DETENTION FACILITIES, UTILITIES, ETC.).

THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.

AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

EROSION CONTROL AND POLLUTION CONTROL MEASURE

EROSION CONTROL MEASURES FOR DISTURBED AREAS:

ALL DISTURBED SLOPES GREATER THAN 3:1 HAVE BEEN GRADED AND COMPACTED PRIOR TO OCTOBER 1ST SHALL BE HYDROSEEDED USING THE FOLLOWING SPECIFICATIONS:

SEEDING SHALL NOT BE DONE DURING WINDY WEATHER OR WHEN THE GROUND IS FROZEN, EXCESSIVELY WET OR OTHERWISE UNTILLABLE.

SEED MAY BE DOWN BY THE FOLLOWING METHOD:

HYDROSEEDED WHICH UTILIZED WATER AS THE CARRYING AGENT, AND MAINTAINS CONTINUOUS AGITATION THROUGH PADDLE BLADES. IT SHALL HAVE AN OPERATING CAPACITY SUFFICIENT TO AGITATE, SUSPEND AND MIX INTO A HOMOGENEOUS SLURRY OF THE SPECIFIED AMOUNT OF SEED AND WATER OR OTHER MATERIAL. DISTRIBUTION AND DISCHARGE LINES SHALL BE LARGE ENOUGH TO PREVENT STOPPAGE AND SHALL BE EQUIPPED WITH A SET OF HYDRAULIC DISCHARGE SPRAY NOZZLES WHICH WILL PROVIDE A UNIFORM DISTRIBUTION OF THE SLURRY.

GRASS SHALL BE SEEDED AT THE RATE OF NOT LESS THAN ONE HUNDRED THIRTY (130) POUNDS PER ACRE. SEED MIX SHALL INCLUDE:

STATE HIGHWAY ROADSIDE SEEDING MIX.

FERTILIZER SHALL BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE.

NITROGEN	–	22%
PHOSPHORIC ACID	–	16%
SOLUBLE POTASH	–	8%

WOOD CELLULOSE FIBER SHALL BE APPLIED AT THE RATE OF ONE AND ONE (1–1/2) TONS PER ACRE.

THE EXACT TIME FOR SEEDING WILL BE DETERMINED BY ACTUAL WEATHER CONDITIONS. THE NORMAL SATISFACTORY PERIOD FOR SEEDING SHALL BE CONSIDERED BETWEEN MARCH 1 TO JUNE 1 AND SEPTEMBER 1 TO OCTOBER 1 UNLESS OTHERWISE AUTHORIZED BY THE OWNER EXCEPT THAT CONTRACTOR MAY PERFORM SEEDING OPERATIONS FROM JUNE 1 TO SEPTEMBER 1 PROVIDED THAT HE WATERS THE NEW GRASS TO THE SATISFACTION OF THE OWNER.

WHEN DELAYS IN OPERATIONS CARRY THE WORK BEYOND THE MOST FAVORABLE PLANTING SEASON, OR WHEN WEATHER CONDITIONS ARE SUCH THAT SATISFACTORY RESULTS ARE NOT LIKELY TO BE OBTAINED FOR ANY STAGE OF THE SEEDING OPERATIONS, THE CONTRACTOR WILL STOP THE WORK AND IT SHALL BE RESUMED ONLY WHEN THE DESIRED RESULTS ARE LIKELY TO BE OBTAINED. IF OPERATIONS EXTEND PAST OCTOBER 1 ALTERNATE HAY PLACEMENT AND SPRING SEEDING SHALL BE SUBSTITUTED.

THE CONTRACTOR SHALL PROTECT ALL SEEDED AREAS FROM EROSION UNTIL FINAL INSPECTION AND ACCEPTANCE HAS BEEN MADE. AREAS DAMAGED BY EROSION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 THAT HAVE BEEN GRADED AND COMPACTED SHALL BE SEEDED PRIOR TO OCTOBER 1, WITH THE SAME SEED AND FERTILIZER MIX AS USED IN HYDROSEEDING AND SPREAD EVENLY OVER THE SITE.

ALL DISTURBED AREAS NOT GRADED AND COMPACTED PRIOR TO OCTOBER 1, SHALL BE SEEDED WITH 200 LBS PER ACRE OF HIGHWAY MIX AND SPREAD WITH A HAY MULCH LAYER 1 1/2" TO 2" THICK.

EROSION CONTROL PROTECTION SHALL BE CONSIDERED COMPLETE AND SUCCESSFUL WHEN A GRASS MAT HAS BEEN ESTABLISHED.

ADDITIONAL TEMPORARY EROSION CONTROL (DURING CONSTRUCTION)

HAY BALES WILL BE PLACED AT THE TOP OF ALL MAJOR FILL SLOPES WHEN NECESSARY, TO PREVENT SILT FROM WASHING INTO EXISTING DRAINAGE WAYS. (SILTATION BARRIER).

TEMPORARY DITCHES WILL BE CONSTRUCTED AS NECESSARY TO ASSURE DRAINAGE IS CHANNELED TO THE FACILITIES BEING PROVIDED.

IF CONSTRUCTION TAKES PLACE DURING RAINY SEASON, HAY BALES AND "MIRAFI" 140 S FABRIC WILL BE REQUIRED AT ALL STORM DRAINAGE INLETS UNTIL ROCKING OF STRETCH IS COMPLETED AND DISTURBED SLOPES STABILIZED BY HYDROSEEDING.

SEDIMENT FENCES

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.

THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES.

A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE BY 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.

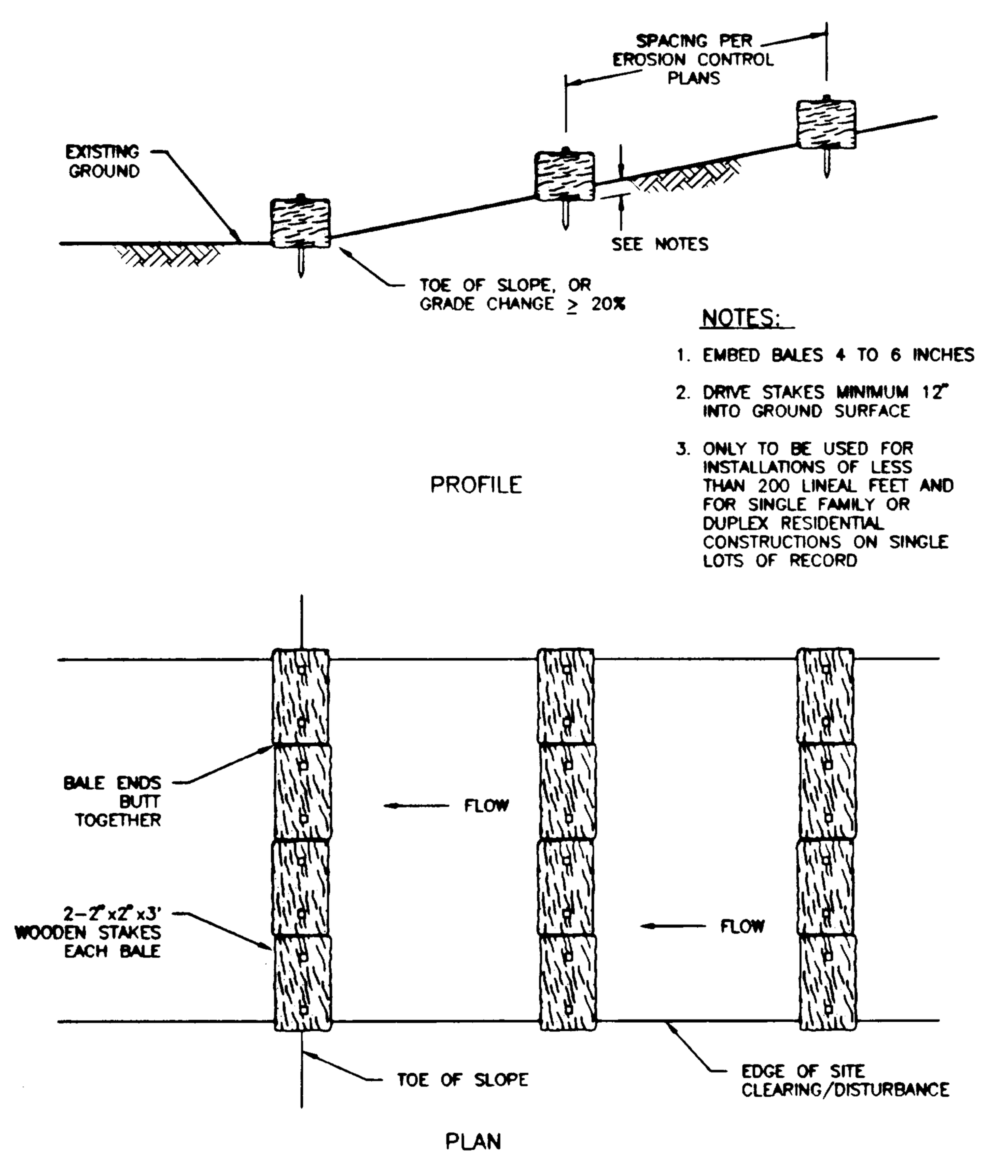
WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRE OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES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

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 30 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STALED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF THE ABOVE STANDARD NOTE FOR STANDARD STRENGTH FILTER FABRIC APPLYING.

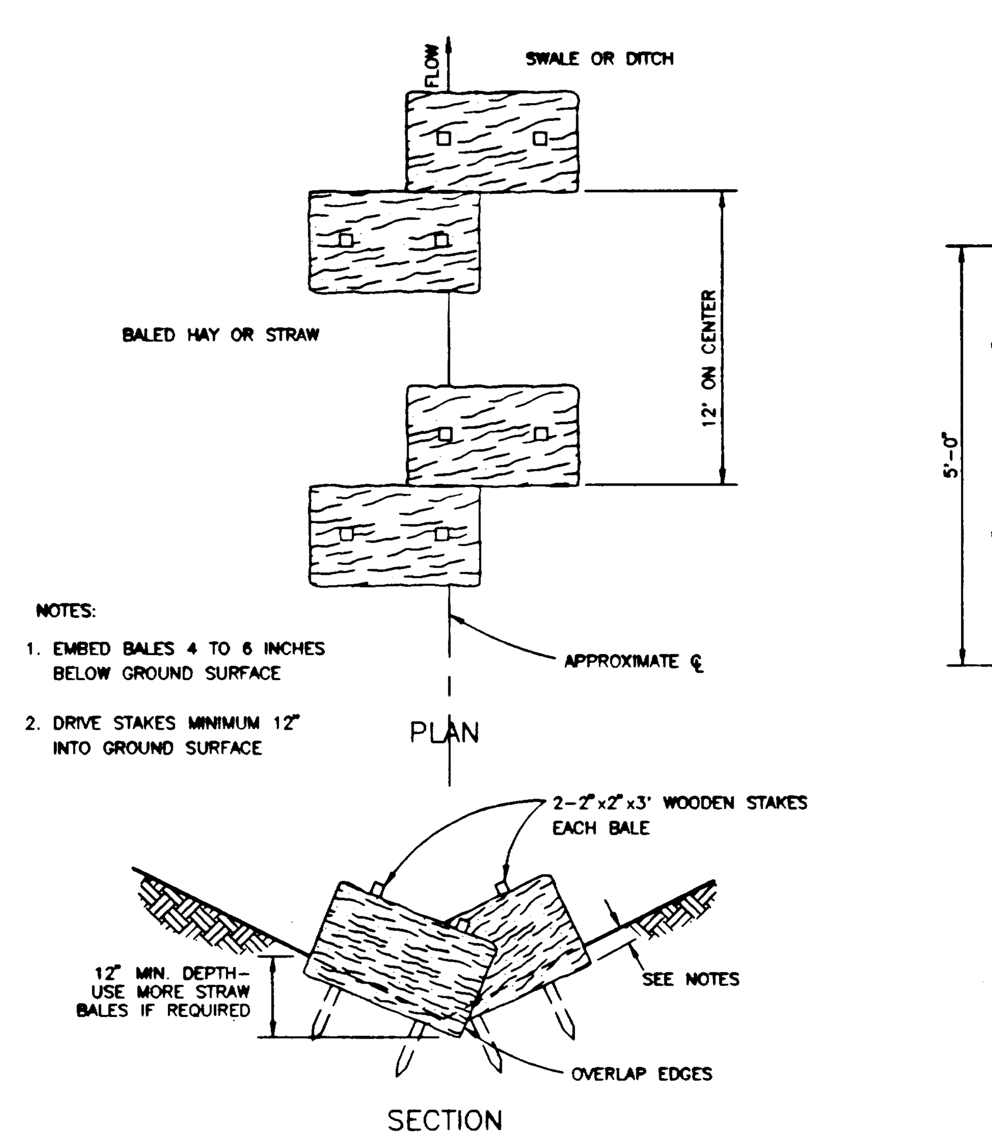
SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

SEDIMENT FENCES SHALL BE INSPECTED BY APPLICANT/CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.



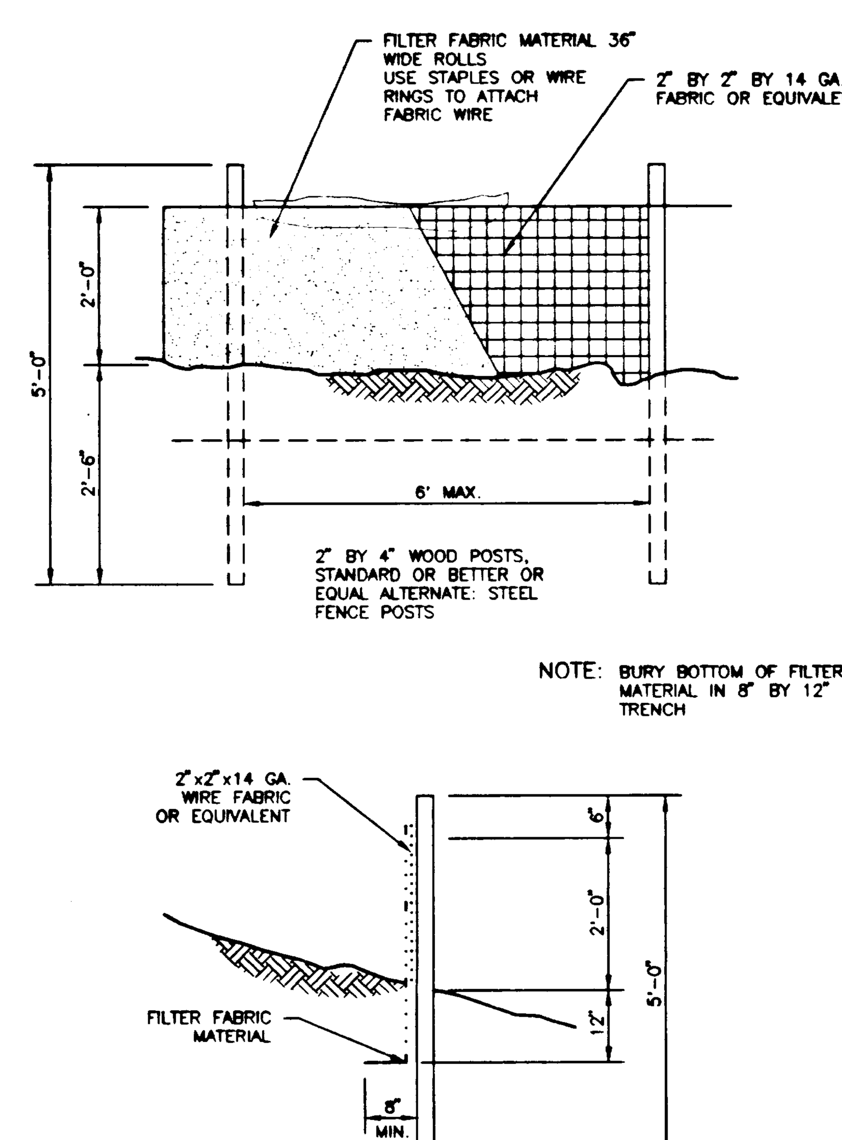
Straw Bale Sediment Barriers Along Slopes

STRAW BALE SEDIMENT BARRIER

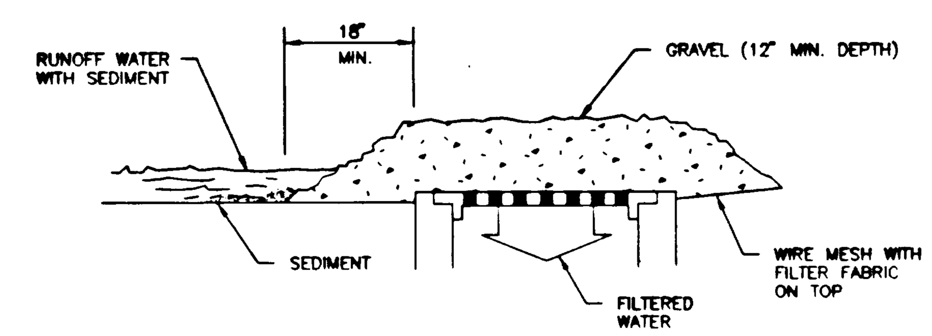


STRAW BALE SEDIMENT BARRIER IN DITCHES OR SWALES

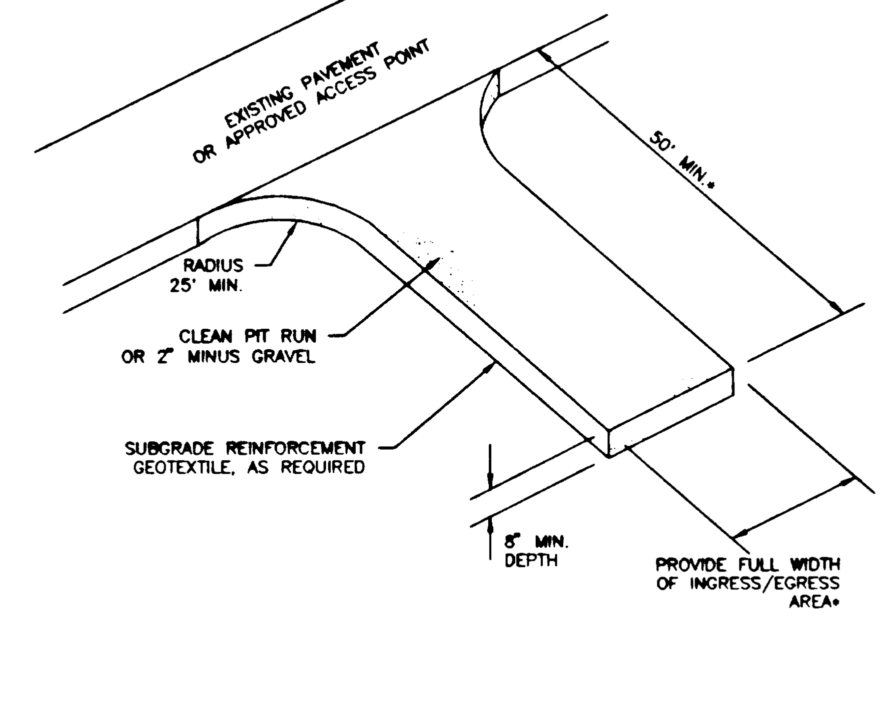
STRAW BALE SEDIMENT BARRIER



SEDIMENT FENCE



GRAVEL & WIRE MESH INLET BARRIER



GRAVEL CONSTRUCTION ENTRANCE

(TO BE CONSTRUCTED AT TEMPORARY ACCESSES)

AS-BUILT

BY: D. SINGER DATE: 8-12-94

M.F. KEKHIA 8/93
Designed Date
M.F. KEKHIA 8/93
Drawn Date
DALE C. ROSS 8/93
Checked Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1980 DALE C. ROSS EXP. 12/31/94

EROSION CONTROL
DETAILS & NOTES

CASCADE SUMMIT
PHASE 2
RESIDENTIAL SUBDIVISION
CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

otak incorporated

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Sheet No.

4434
Project No.

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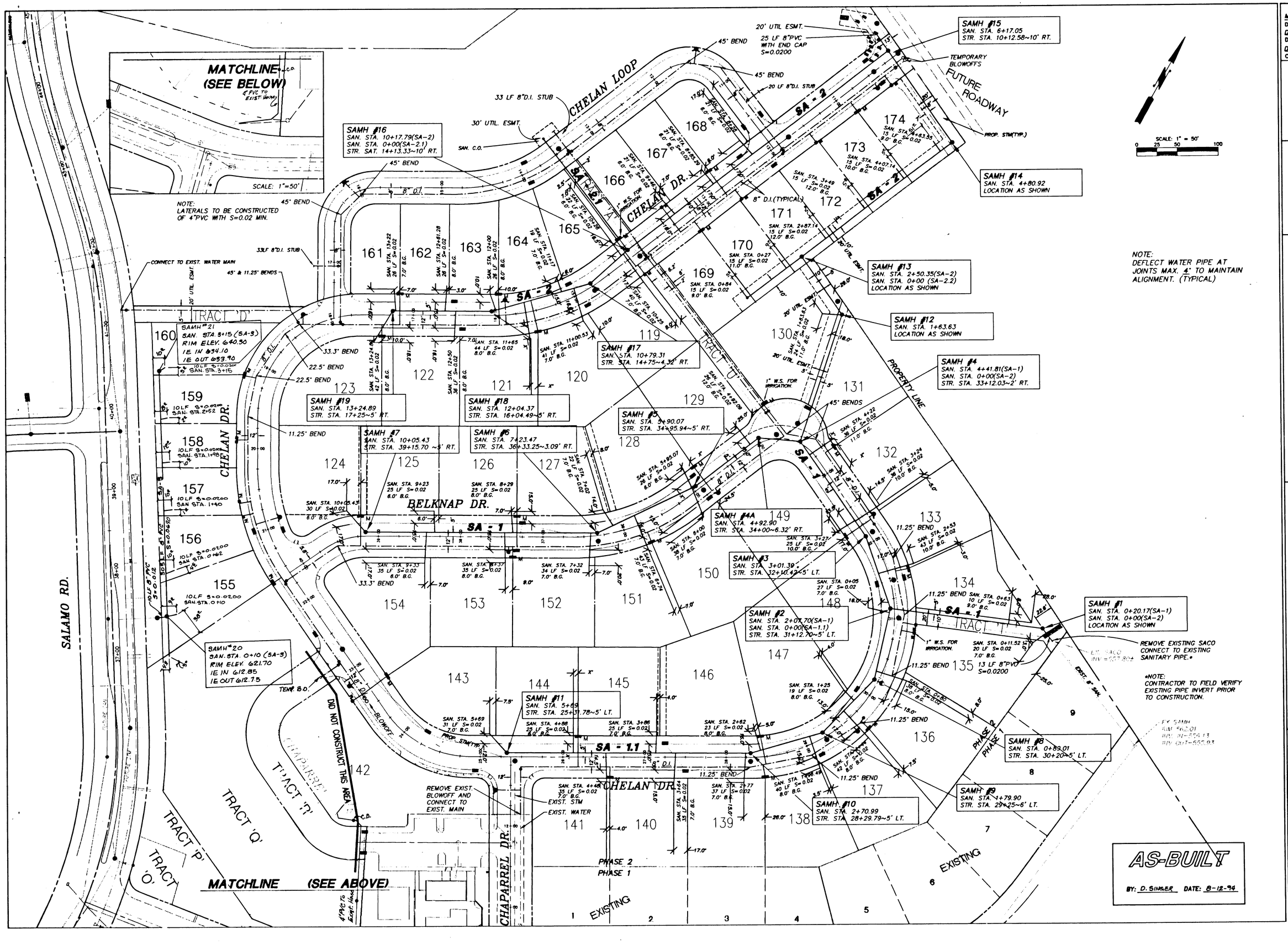

M.F. KEKHIA	Designed	8/93 Date
D.F.M.	Design Tech.	8/93 Date
D.C.R.	Checked	8/93 Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25 1990 DALE C. ROSS

EXP. 12/31/94

SANITARY SEWER & WATER PLAN

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19383 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

otak Incorporated

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Sheet No.

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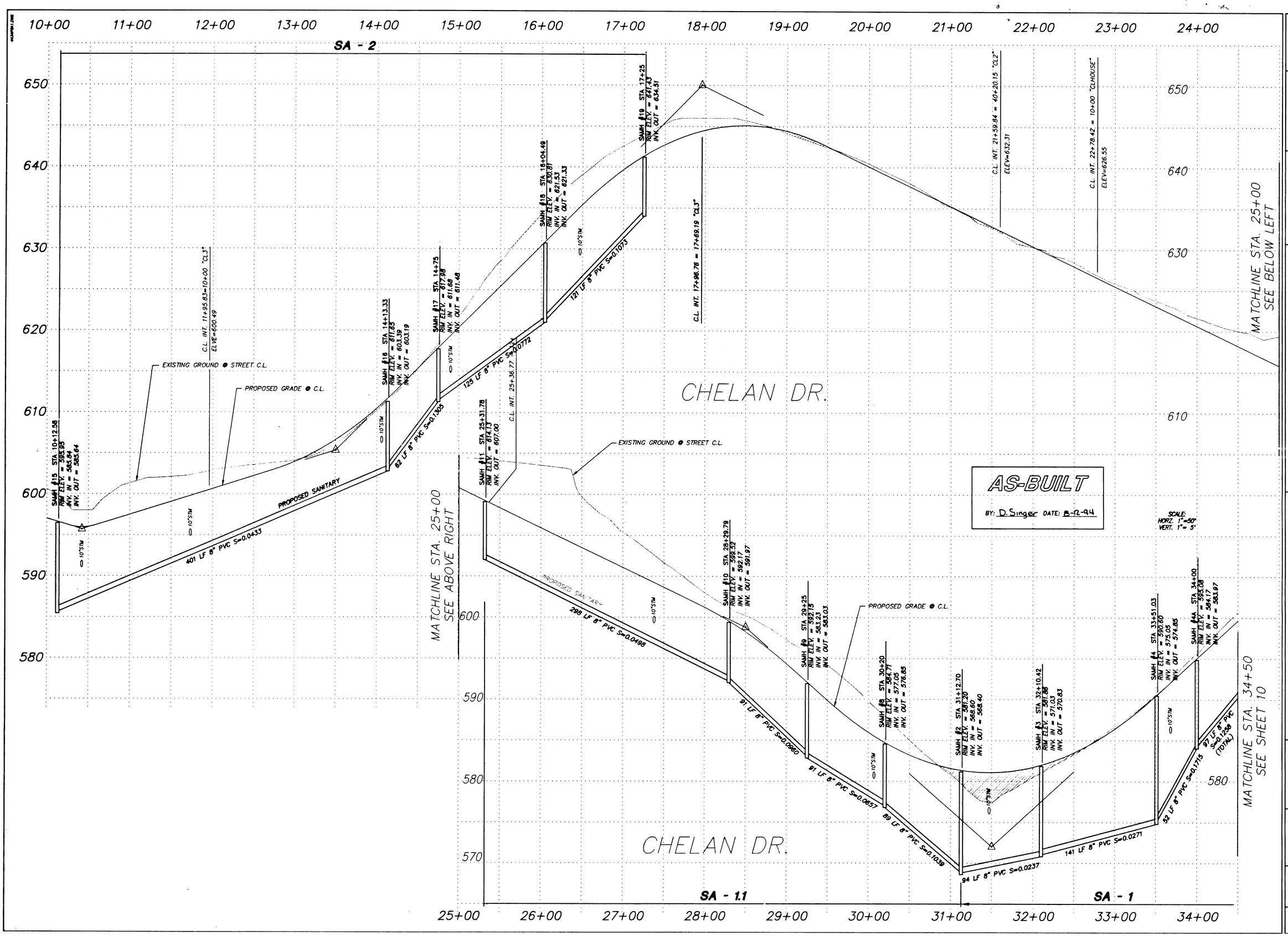
Project No.



M.F. KEKHIA	8/93	
Designed		Date
D.F.M.	8/93	
Design Tech.		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 27, 1990 DALE C. ROSS

EXP. 12/31/94

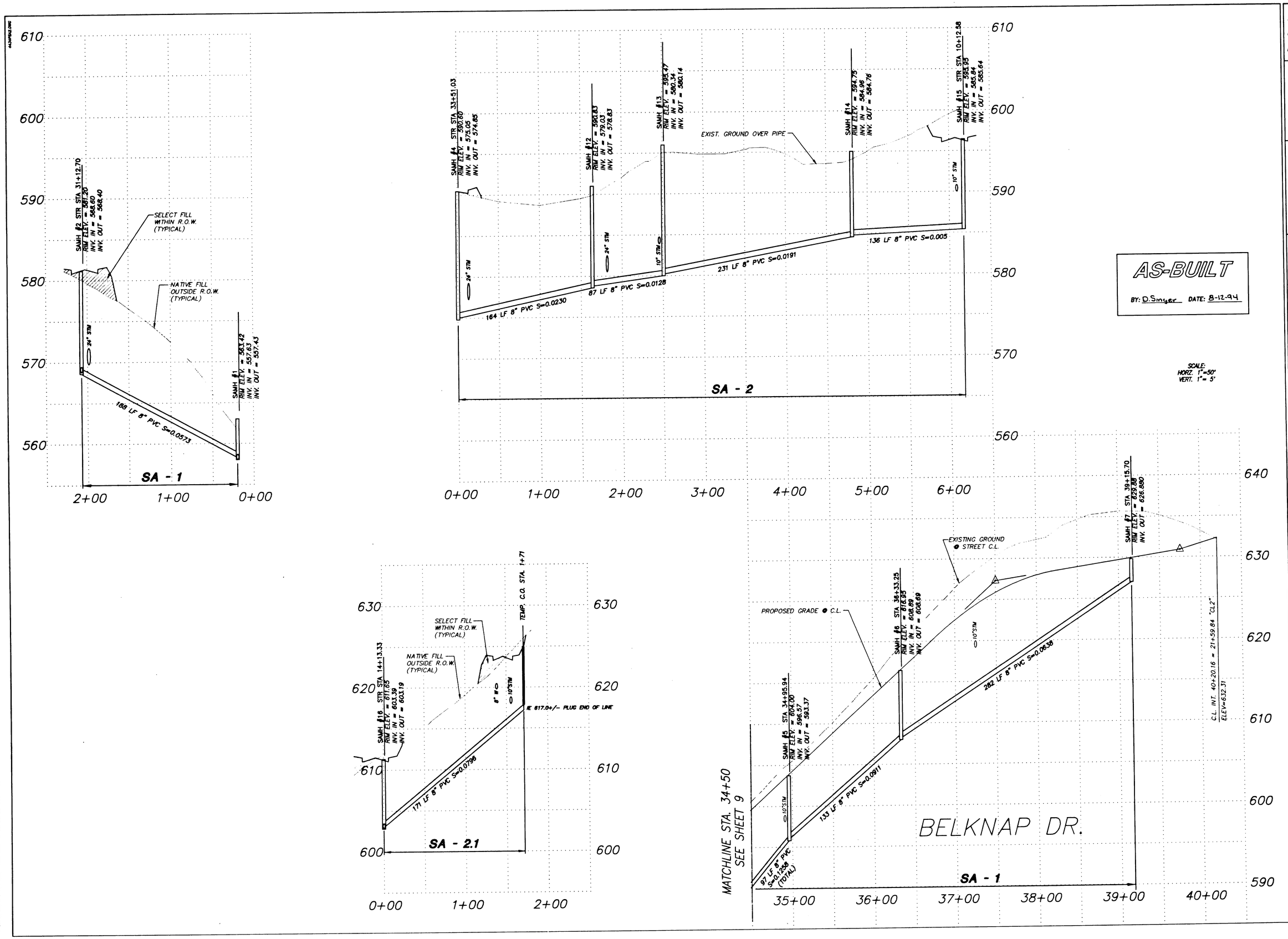
SANITARY SEWER PROFILES

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

otak incorporated
17355 S.W. Boones Ferry Rd., Lake Oswego, OR 97035 (503)635-3511
1001 S.W. 5th Street, Vancouver, WA 98660 (206)695-6557
20 Cardinal Way, J 205 Redmond, WA 98052 (206)822-4446

4434
Project No.



AS-BUILT

BY: D.Smyer DATE: 8-12-94

SCALE:
HORZ. 1"=50'
VERT. 1"= 5'

M.F. KEKHIA	8/93	Designed — Date
D.F.M.	8/93	Design Tech. — Date
D.C.R.	8/93	Checked — Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25 1990 DALE C. ROSS

EXP. 12/31/94

SANITARY SEWER PROFILES

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION

CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR. 97068
(503)721-1010

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Sheet No.

4434
Project No.

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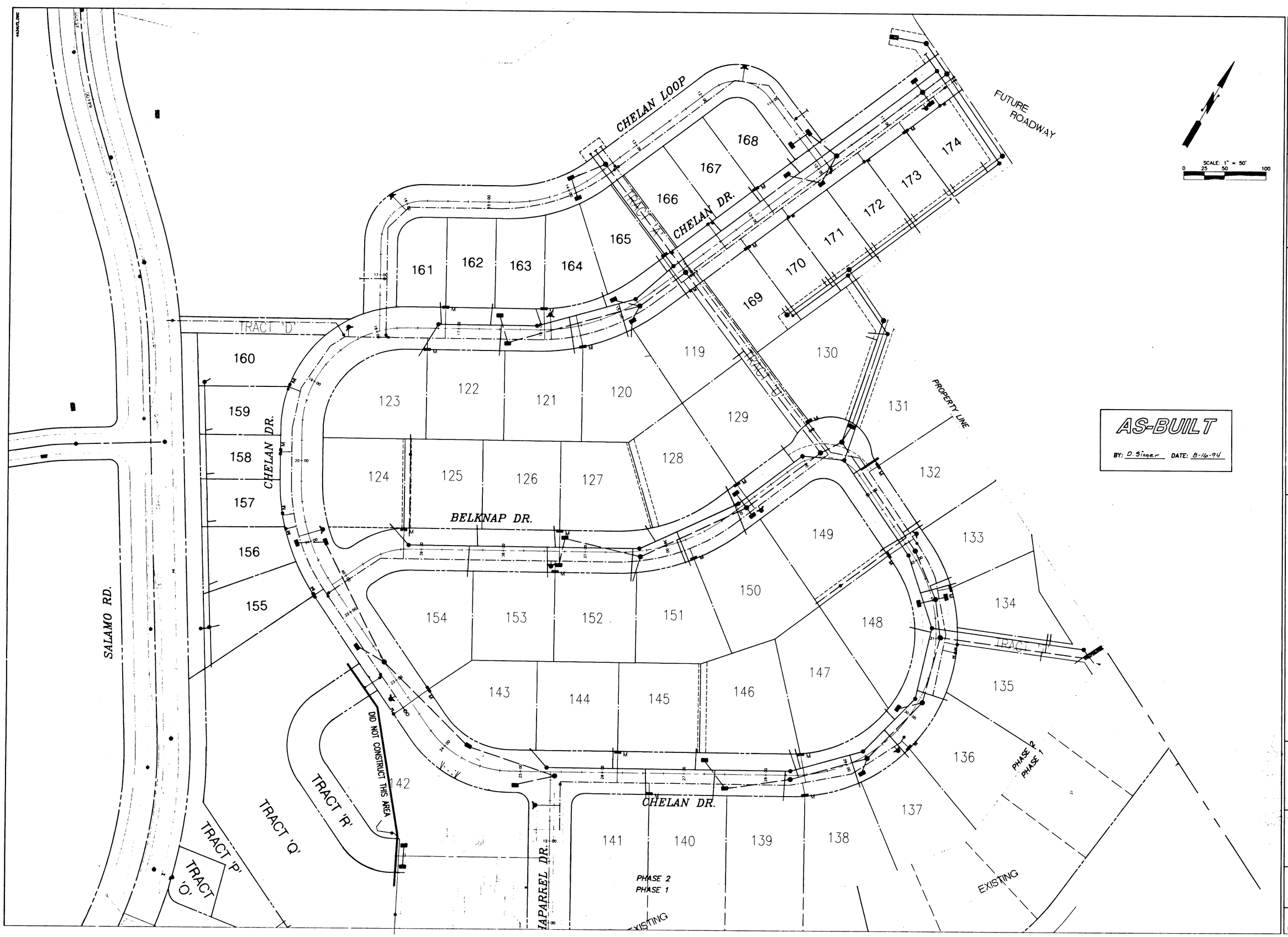

AS-BUILT

BY: D. Singer DATE: 8-16-94

M.F. KEKHIA	8/93
Designed	Date
D.F.M.	8/93
Design Tech.	Date
D.C.R.	8/93
Checked	Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER 15111 OREGON JULY 25, 1990 DALE C. ROSS

EXP. 12/31/94

COMPOSITE UTILITY PLAN

CASCADE SUMMIT PHASE 2 RESIDENTIAL SUBDIVISION CITY OF WEST LINN

KOSS BROD GOODRICH AND ASSOCIATES, INC.
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WEST LINN, OR. 97068
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Sheet No.

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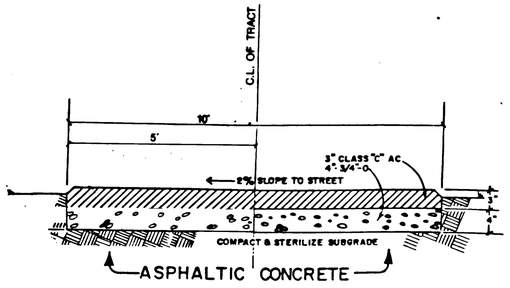
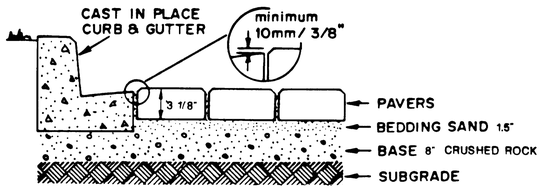
Project No.



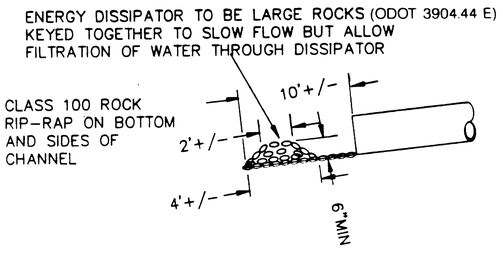
ASPHALT TRAIL DETAIL
N.T.S.



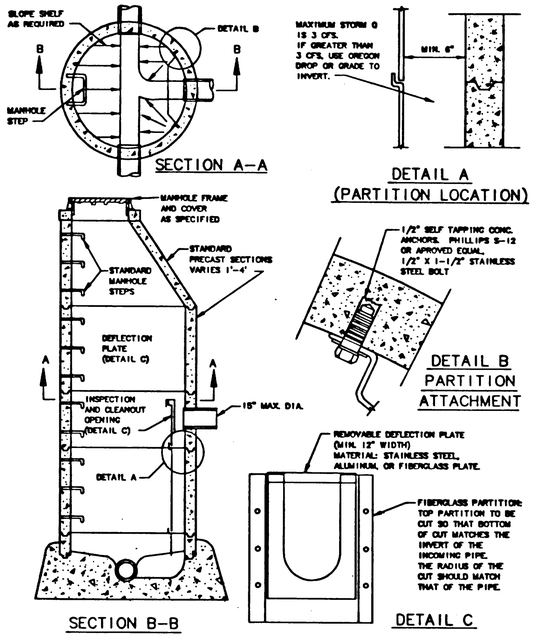
PAVER SECTION DETAIL
N.T.S.
PAVER SECTION DETAIL FOR CHELAN LOOP & CHAPARRAL LOOP

NOTE:
SUMMER TIME
CONSTRUCTION ONLY

AS BUILT
BY: D Singer DATE: 8-12-94



RIP-RAP ENERGY DISSAPATOR
N.T.S.



INSIDE DROP MANHOLE
N.T.S.

M.F. KEKHA	8/93	
Designed		Date
D.F.M.	8/93	
Drawn		Date
D.C.R.	8/93	
Checked		Date

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
15111
OREGON
JULY 28, 1980
DALE C. ROSS
EXP 12/31/94

DETAILS

CASCADE SUMMIT
PHASE II
RESIDENTIAL SUBDIVISION
CITY OF WEST LINN

KOSS
BROD
GOODRICH
AND
ASSOCIATES, INC.
19363 WILLAMETTE DR #509
WEST LINN, OR 97068
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Project No.