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.
20. IN CASE OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE FIGURES WRITTEN THEREON, THE FIGURES SHALL BE DEEMED TO GOVERN.
21. THE OWNER WILL SUPPLY ONE SET OF STAKES FOR EACH CONSTRUCTION OPERATION AS DESCRIBED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE OR REPRESENTATIVES WHO ARE AUTHORIZED TO REQUEST STAKES. STAKING REQUESTS FROM AUTHORIZED REPRESENTATIVE SHALL BE MADE TO DAVE LIDEN AT OTAK (699-2401) AT LEAST 24 HOURS IN ADVANCE OF THE NEED FOR SAID STAKES. ONLY REQUESTS FROM AUTHORIZED REPRESENTATIVES WILL BE HONORED. ANY RESTAKING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.

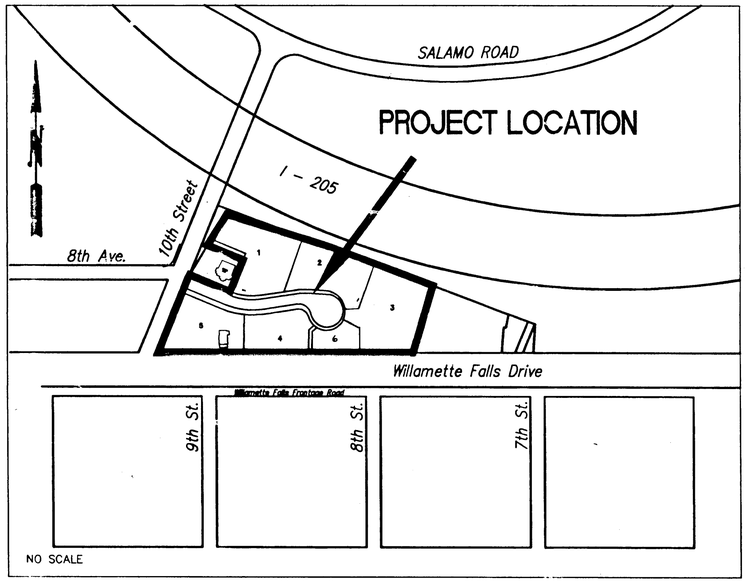
10TH STREET COMMERCIAL

CITY OF WEST LINN

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.

M FARES KERKHA
Signature

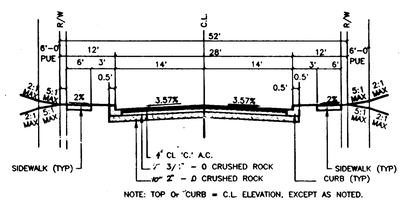
2/12/98
Date



VICINITY MAP

BENCH MARK

3/4" IRON PIPE IN MONUMENT BOX AT 8TH AVE. & 10TH STREET INTERSECTION. ELEV = 146.597



TYPICAL SECTION
8 TH COURT

D. SINGER
Revised As-Builts 3-597
AS BUILT
BY: C. WATT DATE: 1/5/96

6/27/95

SHEET INDEX

LEGEND

EXISTING		PROPOSED
◁	FIRE HYDRANT (EFH)	▲ THRUST BLOCK
	REDUCER (ERED)	◀ FIRE HYDRANT
	BLOWOFF (B.O.) ASSEMBLY	→ REDUCER
R	PRESSURE REDUCING VALVE	⊸ BLOWOFF (B.O.) ASSEMBLY
	AIR RELEASE VALVE	R PRESSURE REDUCING VALVE
	CHECK VALVE	AIR RELEASE VALVE
○	CLEANOUT	CHECK VALVE
○	MANHOLE	• CLEANOUT
GV	GAS VALVE	● MANHOLE
⊗	GATE VALVE	GV GAS VALVE
⋈	BUTTERFLY VALVE	⊗ GATE VALVE
WM	WATER METER	⋈ BUTTERFLY VALVE
▫	IRRIGATION CONTROL VALVE	WM WATER METER
▫	TRAFFIC SIGNAL CONTROL	▪ IRRIGATION CONTROL VALVE
	SIGN	▪ TRAFFIC SIGNAL CONTROL
	INLET	◀ SIGN
	VAULT	▮ INLET
— W —	WATER LINE	■ VAULT
— ST —	STORM SEWER	— W — WATER LINE
— SA —	SANITARY SEWER	— ST — STORM SEWER
	PROPERTY AND R/W LINE	— SA — SANITARY SEWER
	RETAINING WALL	PROPERTY AND R/W LINE
—x—	FENCE	RETAINING WALL
	DITCH	—x— FENCE
— —	UTILITY EASEMENT	DITCH
— — —	SLOPE EASEMENT LINE	— — UTILITY EASEMENT
	CENTERLINE	— — — SLOPE EASEMENT LINE
	DECIDUOUS TREE	CENTERLINE
	EVERGREEN TREE	DECIDUOUS TREE
	DRIP LINE OR VEGETATION LINE	EVERGREEN TREE
	BENCH MARK	DRIP LINE OR VEGETATION LINE
	LUMINAIRE	BENCH MARK
TP	TELEPHONE STANDPIPE	LUMINAIRE
PP	POWER STANDPIPE	TP TELEPHONE STANDPIPE
	POWER POLE/TELEPHONE POLE	PP POWER STANDPIPE
	GUY POLE	POWER POLE/TELEPHONE POLE
— G —	GAS LINE	GUY POLE
— T —	TELEPHONE LINE	— G — GAS LINE
— TV —	T.V. CABLE	— T — TELEPHONE LINE
— P —	POWER LINE	— TV — T.V. CABLE
	SILT FENCE	— P — POWER LINE
	CHECK DAM	OUTLET PROTECTION
	SILT FENCE AFTER GRADING COMPLETED IN WINTER CONSTRUCTION	SEDIMENT TRAP
	INLET PROTECTION	

LOCATES (48 HOURS NOTICE REQUIRED PRIOR TO EXCAVATION)

ONE CALL SYSTEM (GENERAL TELEPHONE, NORTHWEST (NATURAL GAS, U.S. WEST, U.S. SPRINT)	246-6699
PORTLAND GENERAL ELECTRIC	643-5454, EXT. 312, 313, 314
TCI CABLE TELEVISION	243-7491
REPAIR EMERGENCIES	
NORTHWEST NATURAL GAS	226-4211, EXT. 4413
GENERAL TELEPHONE	629-2121
CITY OF WEST LINN	
_____ _____, WATER OPERATIONS	656-3535
_____ _____, SANITARY SEWER OPERATIONS	____-____

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

MFK DESIGNED	4/24/95 DATE
AKV DRAWN	4/24/95 DATE
GOE CHECKED	4/24/95 DATE

NO.	DATE	BY	CHK. APPD.	REVISIONS
1	6-26			

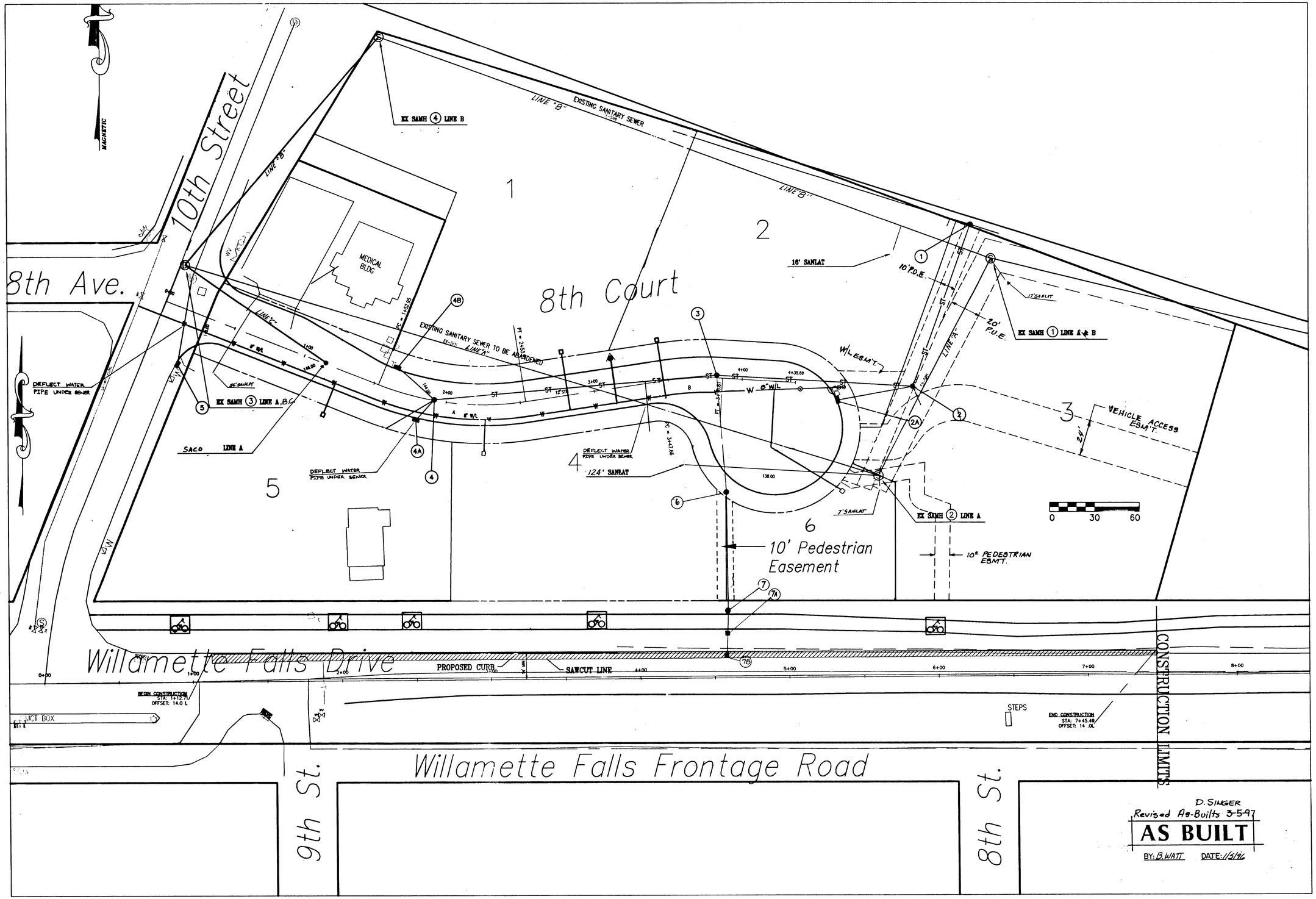
REGISTERED PROFESSIONAL ENGINEER
7447
OREGON
SEPTEMBER 28, 1984
M FARES KERKHA
EXPIRES JUNE 30, 1995

10TH STREE COMMERCIAL
WEST LINN, OREGON
TITLE SHEET

OWNER/DEVELOPER
KOSS, BROD, GOODRICH AND ASSOCIATES, INC.
2108 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4836

otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: N/A
DRAWING NO. D4647COV
PROJECT NO. 4647
SHEET NO. 1 OF 7



D. SINGER
Revised As-Builts 3-5-97

AS BUILT

BY: B. WATT DATE: 11/5/96

F. KEKHIA 6-26-95 DESIGNED DATE
FARES DRAWN DATE
GOE 6-26-95 CHECKED DATE

REVISIONS | NO. | DATE | BY | APPD. CHK

REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPT. 29, 1995 W. FARES KEKHIA

EXPIRES: 6-30-95

10 TH ST COMMERCIAL LOT #5

COMPOSITE UTILITY PLAN

KOSS BROD GOODRICH AND ASSOC INC

WEST LINN OREGON

WILLAMETTE CENTER

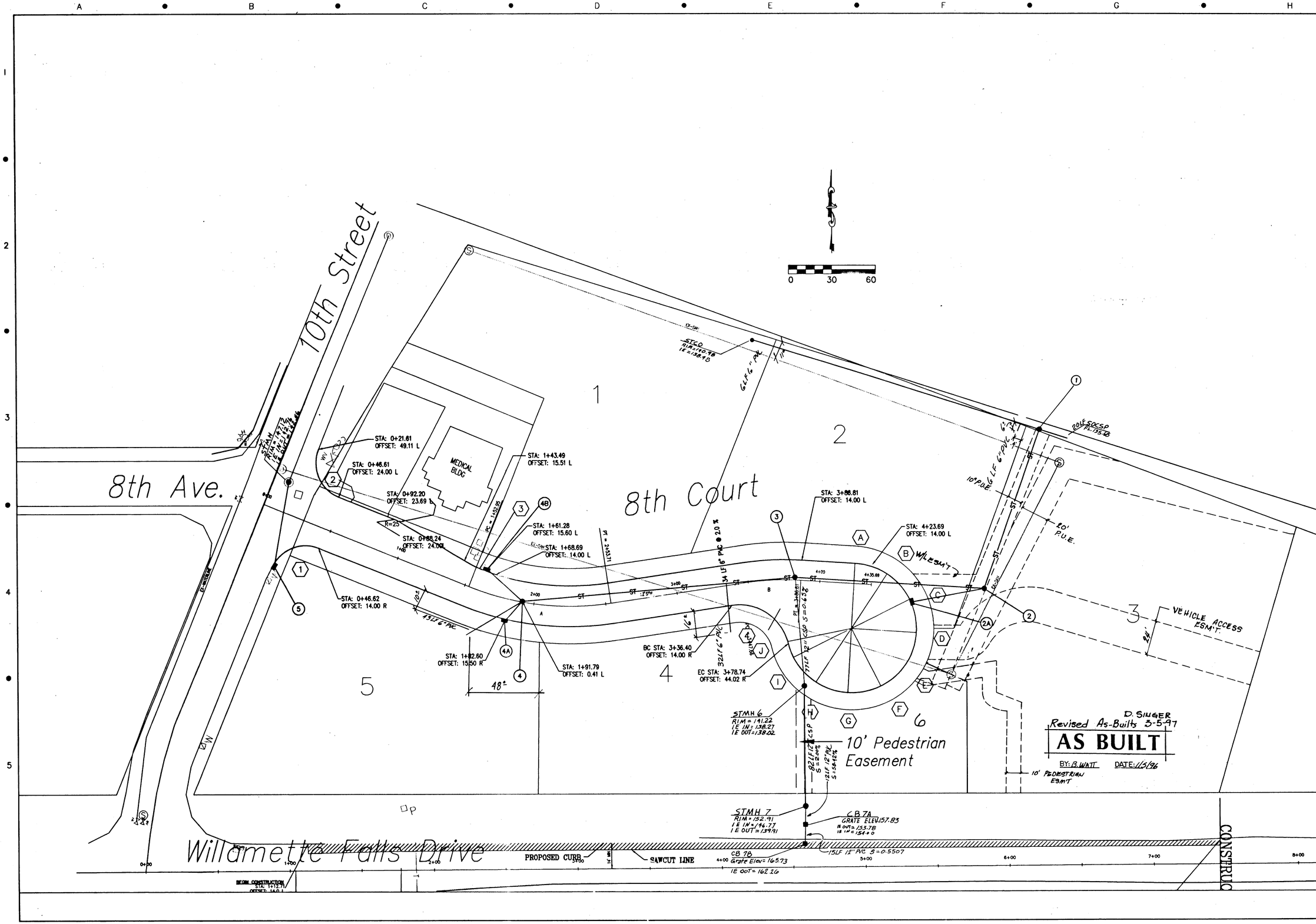
otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: 1"= 30'

DRAWING NO. D4647B1

PROJECT NO. 4647

SHEET NO. 1A



DESIGNED	MFK	4/24/95
DRAWN	JCH	6-26-95
CHECKED	GOE	6-26-95

NO.	DATE	BY	CHK	APPD.	REVISIONS
3	6-26				

REGISTERED PROFESSIONAL ENGINEER
27447
OREGON
SEPTEMBER 28, 1994
G. FARES KENNIA
EXPIRES JUNE 30, 1995

10TH STREET COMMERCIAL
WEST LINN, OREGON
STREET & STORM DRAIN PLAN

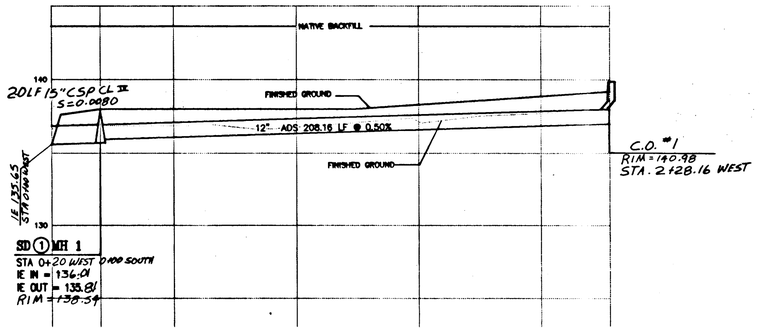
otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

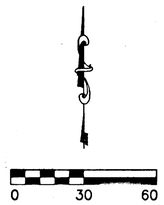
SCALE: 1" = 30'

DRAWING NO. D4647STM

PROJECT NO. 4647

SHEET NO. 2 OF 7





CATCH BASIN DATA

CATCH BASIN #	GRATE ELEV.	INVERT OUT	PIPE SLOPE %	PIPE LENGTH
2A	140.06	136.86	0.35%	52.0'
4A	144.54	140.44	7.46%	28.0'
4B	143.57	140.57	5.97%	30.0'
5	150.89	145.34	3.74%	69.0'

CURB RETURN DATA
TOP OF CURB

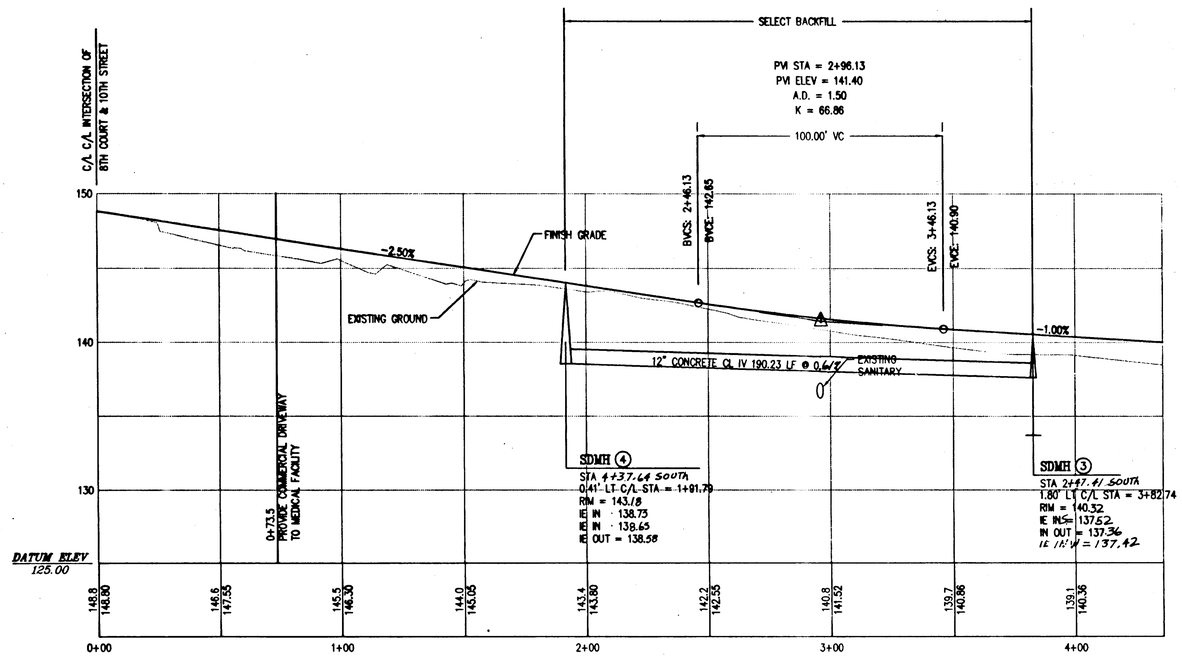
CURB RETURN #	RADIUS	LENGTH	DELTA	0 DELTA	1/4 DELTA	1/2 DELTA	3/4 DELTA	4/4 DELTA
1	25.0'	36.55'	83°45'54"	150.50	149.79	149.07	148.36	147.64
2	25.0'	39.38'	90°15'33"	146.50	146.86	147.20	147.53	147.28
3	100.0'	24.10'	13°48'31"					
4	35'	51.97'	85°04'11"	140.99	140.68	140.48	140.27	140.18

CUL-DE-SAC DATA

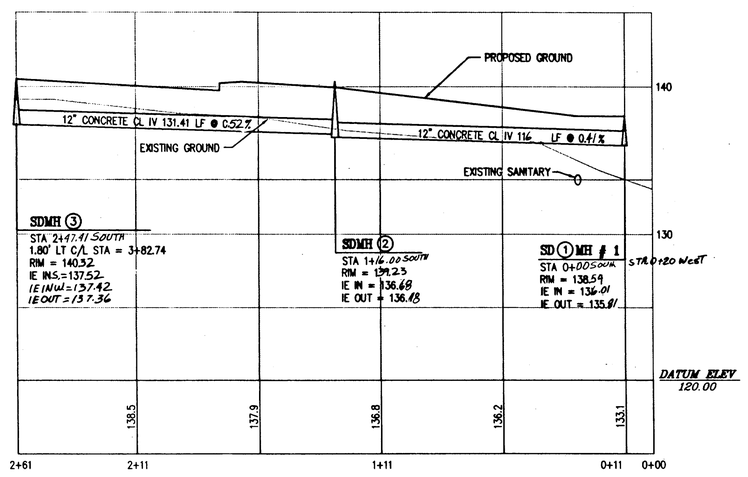
RADIUS	LENGTH	DELTA	A	B	C	LOW POINT	D	E	F	G	H	I	J
45.0'	198.71	253°00'38"	140.12	139.75	139.37	139.10	139.15	139.33	139.53	139.72	139.90	140.09	140.18

C/L CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
A	190.00'	100.76'	51.60'	99.59'	N 83°19'59" W	30°23'10"
B	186.00'	39.15'	19.65'	39.07'	S 87°30'12" W	12°03'32"



HOR: 1" = 30'
VER: 1" = 5"



HOR: 1" = 30'
VER: 1" = 5"

AS BUILT

BY: B. WATT DATE: 1/5/96

MFK DESIGNED 4/24/95 DATE
JCH DRAWN 6-26-95 DATE
GOE CHECKED 6-26-95 DATE

NO.	DATE	BY	CHK'D	APP'D.	REVISIONS
6-24-95					

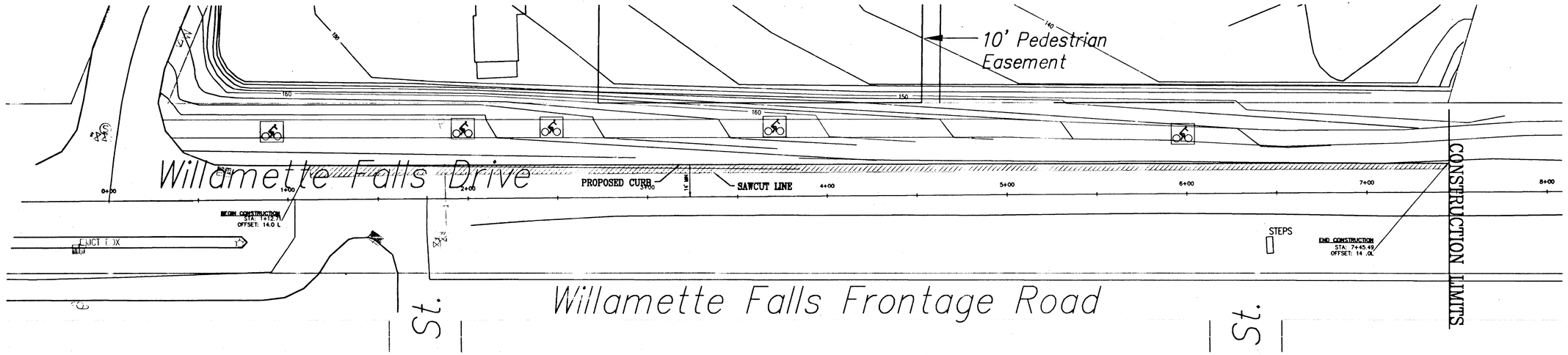
REGISTERED PROFESSIONAL ENGINEER 47447 OREGON SEPTEMBER 28, 1984 M. FARES KEKHIA
EXPIRES JUNE 30, 1995

10TH STREET COMMERCIAL
WEST LINN, OREGON
STREET & STORM DRAIN PLAN

OWNER/DEVELOPER
KOSS, BROD, GOODRICH AND ASSOCIATES, INC.
2108 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4636

otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: 1" = 30'
DRAWING NO. D4647STM
PROJECT NO. 4647
SHEET NO. 2A OF 7



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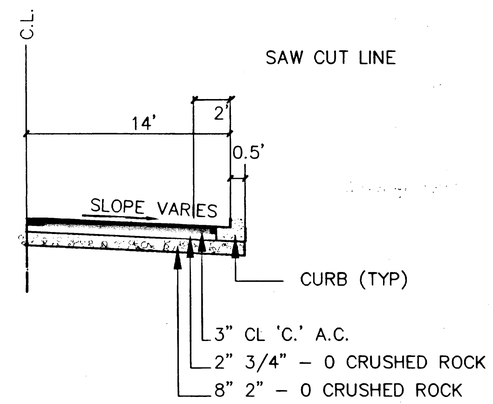


NOTE: TOP OF CURB = C.L. ELEVATION, EXCEPT AS NOTED.

TYPICAL SECTION

WILLAMETTE FALLS DRIVE

AS BUILT

BY: B. WATT DATE: 11/5/96

MFK DESIGNED	4/24/95	DATE
AKV DRAWN	4/24/95	DATE
GOE CHECKED	4/24/95	DATE

NO.	DATE	BY	CHK. APPD.	REVISIONS

REGISTERED PROFESSIONAL ENGINEER 13447 OREGON JULY 10, 1980 M. FARES KEKHIA

EXPIRES: 6-30-97

10TH STREET COMMERCIAL
WEST LINN, OREGON
WILLAMETTE FALLS DRIVE
STREET IMPROVEMENTS

OWNER/DEVELOPER
KOSS, BROD, GOODRICH AND ASSOCIATES, INC.
2108 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4456

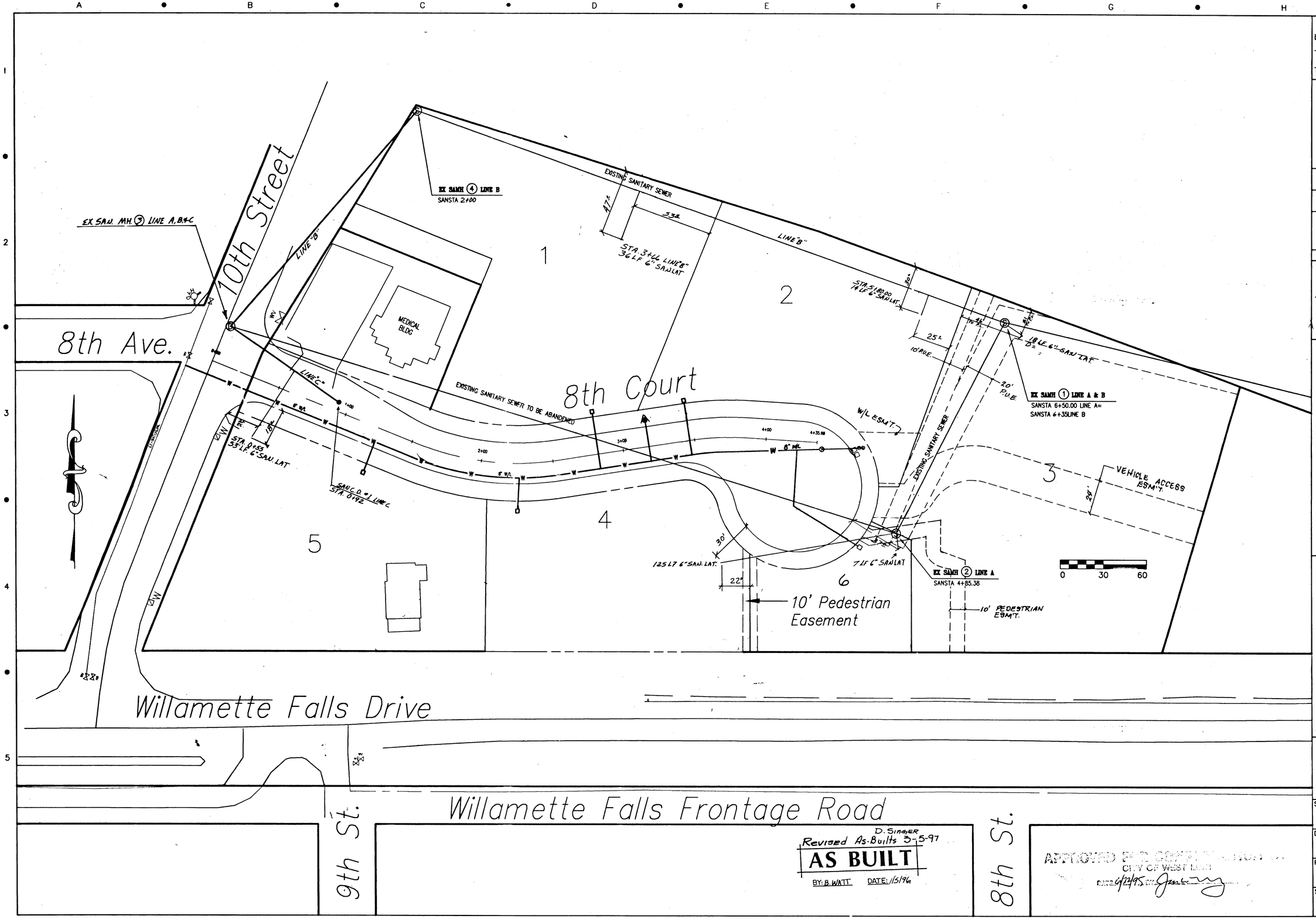
otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: 1" = 30'

DRAWING NO. D4647WDR

PROJECT NO. 4647

SHEET NO. 3 OF 7



Revised As-Builts 3-5-97 D. Singer

AS BUILT

BY: B WATT DATE: 1/5/96

APPROVED FOR CONSTRUCTION
CITY OF WEST LINN
DATE 6/24/95

MFK DESIGNED	4/24/95 DATE	
AKV DRAWN	4/24/95 DATE	
GOE CHECKED	4/24/95 DATE	

REVISIONS | BY | CHK | APPD. | DATE | NO.

6-24-95

REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPTEMBER 28, 1984 M. FARES KERKHA EXPIRES JUNE 30, 1995

10TH STREET COMMERCIAL

WEST LINN, OREGON

SANITARY SEWER & WATER PLAN & PROFILE

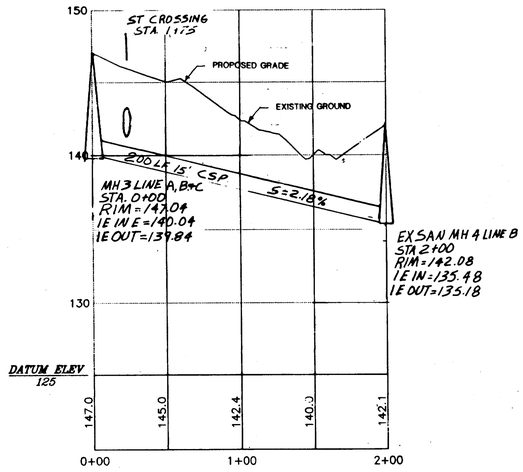
otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: AS LISTED

DRAWING NO. D4647SAN

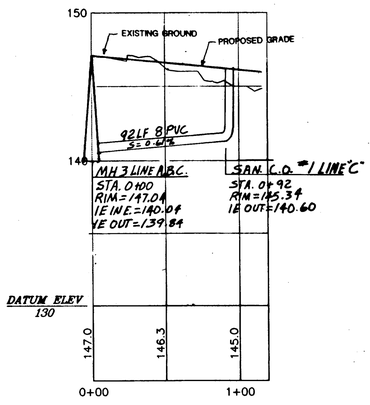
PROJECT NO. 4647

SHEET NO. 4 OF 7

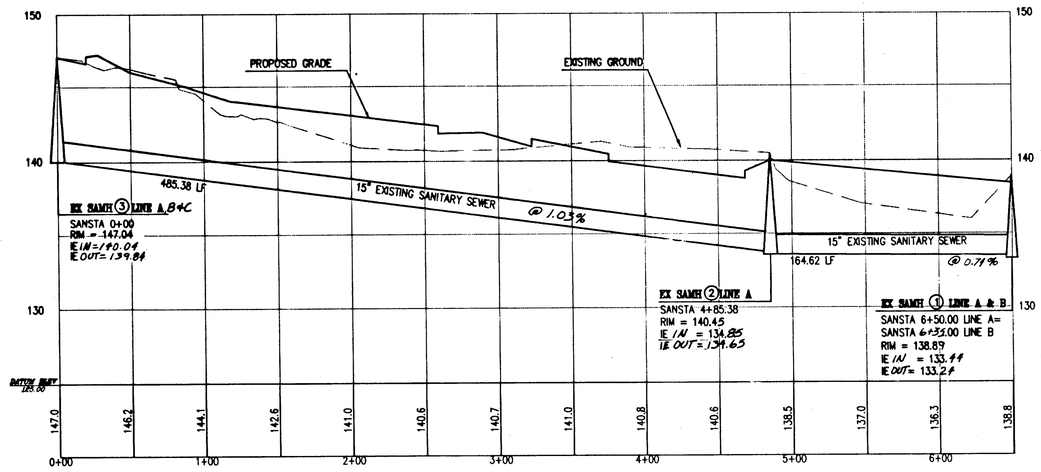


LINE "B"

EXISTING 15" SANITARY

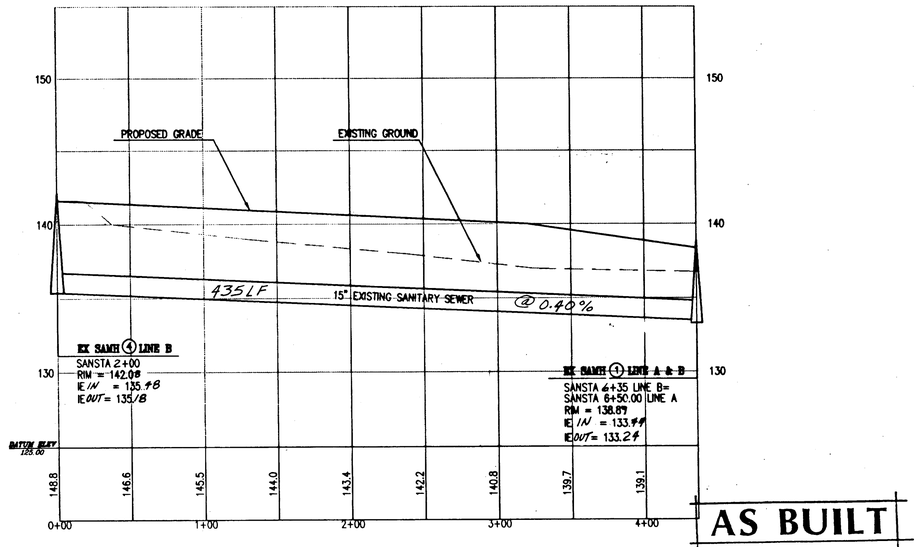


LINE "C"



VERTICAL SCALE: 1"= 5'
HORIZONTAL SCALE: 1"= 80'

LINE "A" EXISTING 15" SANITARY



LINE "B" EXISTING 15" SANITARY

AS BUILT
BY: B. WATT DATE: 11/5/96

MFK	DESIGNED	4/24/95 DATE
AKV	DRAWN	4/24/95 DATE
GOE	CHECKED	4/24/95 DATE

REVISIONS | NO. | DATE | BY | APPD./CHK

REGISTERED PROFESSIONAL ENGINEER
17447
OREGON
SEPTEMBER 28, 1984
M. FARES KERMIA
EXPIRES JUNE 30, 1995

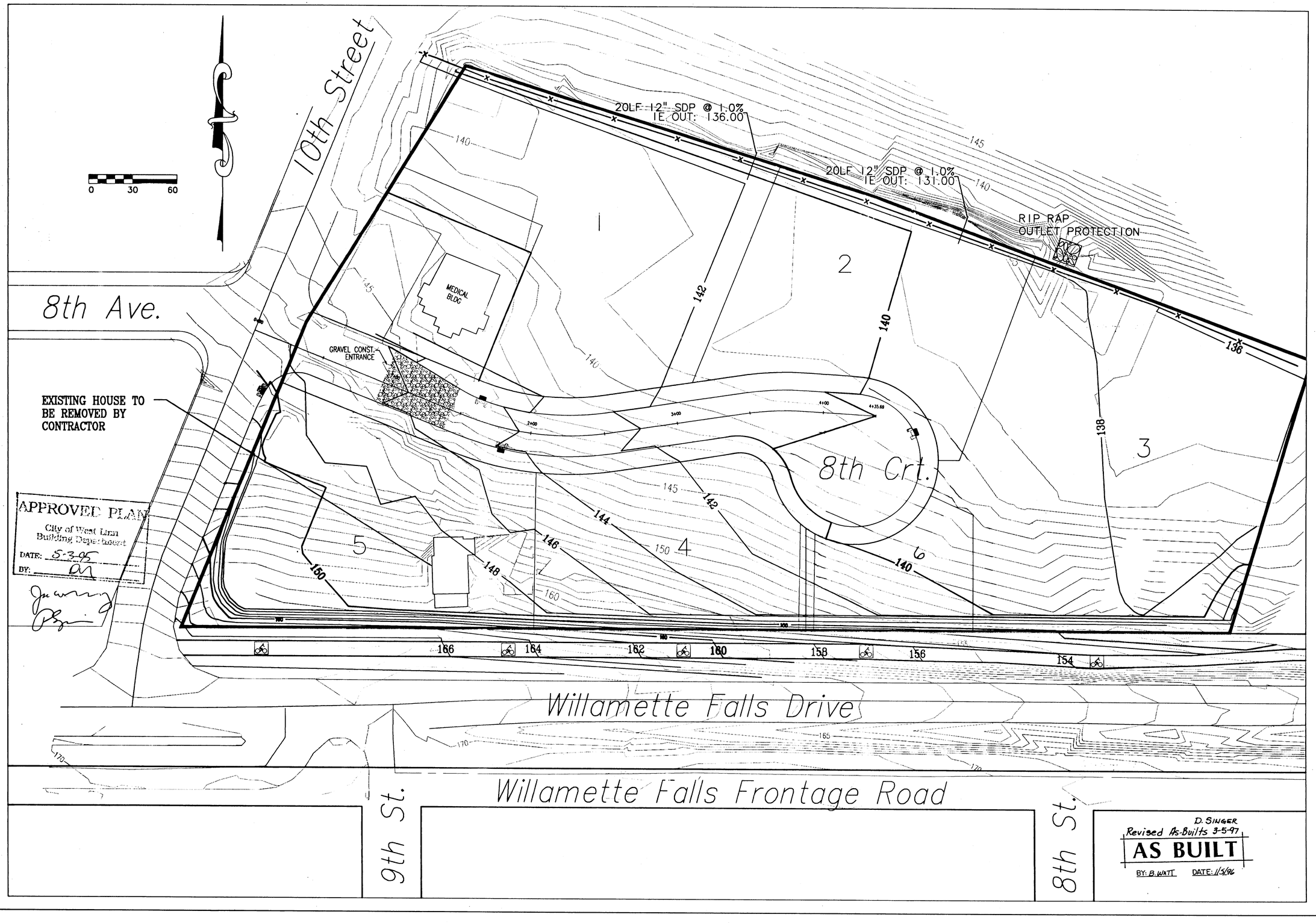
10TH STREET COMMERCIAL
WEST LINN, OREGON

SANITARY SEWER & WATER
PLAN & PROFILE

OWNER/DEVELOPER
KOSS, BROD, GOODRICH AND ASSOCIATES, INC.
2106 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4636

otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: AS LISTED
DRAWING NO. D4647SAN
PROJECT NO. 4647
SHEET NO. 4A OF 7



MFK	DESIGNED	4/24/95 DATE
JLN	DRAWN	4/24/95 DATE
GOE	CHECKED	4/24/95 DATE

NO.	DATE	BY CHK	APPD.	REVISIONS

REGISTERED PROFESSIONAL ENGINEER
17447
OREGON
SEPTEMBER 28, 1984
M. FARES KERHIA
EXPIRES JUNE 30, 1995

10TH STREET COMMERCIAL
WEST LINN, OREGON

GRADING & EROSION CONTROL PLAN

OWNER/DEVELOPER
KOSS, BROD, GOODRICH AND ASSOCIATES, INC.
2108 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4436

otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: 1" = 30'

DRAWING NO. D4647GRD, B1, XCT

PROJECT NO. 4647

SHEET NO. 5 OF 7

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.

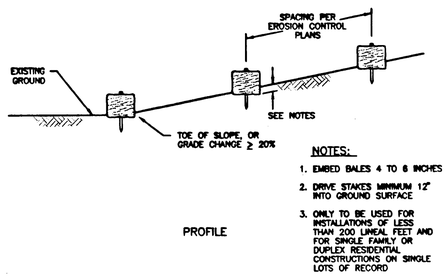
WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRE OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES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

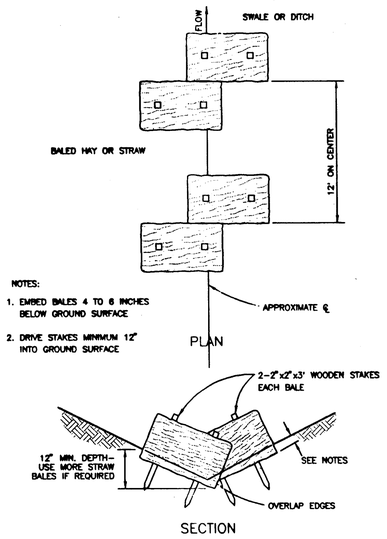
SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

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.



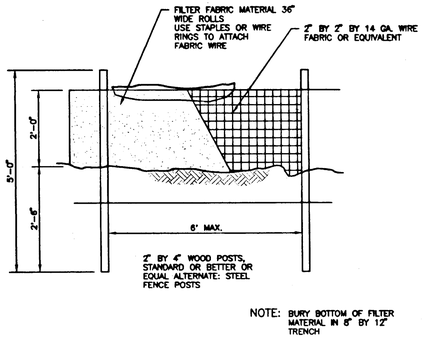
Straw Bale Sediment Barriers Along Slopes

STRAW BALE SEDIMENT BARRIER

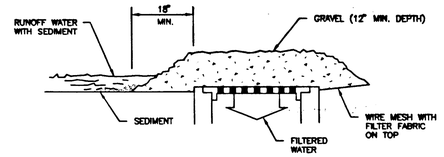


STRAW BALE SEDIMENT BARRIER IN DITCHES OR SWALES

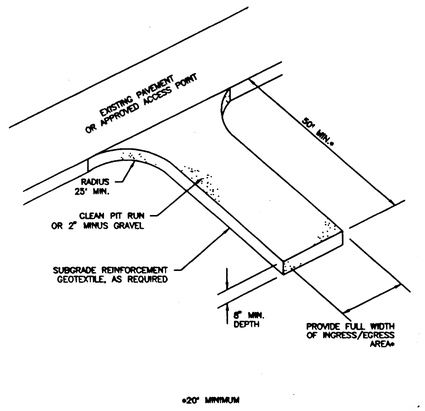
STRAW BALE SEDIMENT BARRIER



SEDIMENT FENCE



GRAVEL & WIRE MESH INLET BARRIER



GRAVEL CONSTRUCTION ENTRANCE
(TO BE CONSTRUCTED AT TEMPORARY ACCESSES)

AS BUILT
BY: B.WATT DATE: 1/31/96

MFK DESIGNED	4/25/95 DATE
AKV DRAWN	4/25/95 DATE
GOE CHECKED	4/25/95 DATE

REVISIONS | NO. | DATE | BY | CHK | APPD.

REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPTEMBER 25, 1984 M. FARES KEHNA
EXPIRES JUNE 30, 1995

10TH STREET COMMERCIAL
WEST LINN, OREGON

EROSION CONTROL NOTES & DETAILS

OWNER/DEVELOPER
KOSS, BRODI, GOODRICH AND ASSOCIATES, INC.
2108 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4636

otak Incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: N/A

DRAWING NO. D4647ERO

PROJECT NO. 4647

SHEET NO. 6 OF 7

10th Street

8th Ave.

MEDICAL BLDG

1

2

3

4

5

6

8th Court

10' Pedestrian Easement

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Willamette Falls Drive

28' MINIMUM

Willamette Falls Frontage Road

9th St.

8th St.

D SINGER
Revised As-Builts 3-5-97
AS BUILT
BY: B. WATT DATE: 1/15/97

MFK DESIGNED	4/24/95 DATE	
MFK DRAWN	4/24/95 DATE	
GOE CHECKED	4/24/95 DATE	

NO.	DATE	BY	CHK	APPD.	REVISIONS

REGISTERED PROFESSIONAL ENGINEER
17447
OREGON
SEPTEMBER 28, 1984
M. FARES KEKHIA
EXPIRES JUNE 30, 1995

10TH STREET COMMERCIAL
WEST LINN, OREGON

STRIPPING PLAN

OWNER/DEVELOPER
KOSS, BROD, GOODRICH AND ASSOCIATES, INC.
2108 Willamette Falls Drive
West Linn, OR 97068
(503) 650-4636

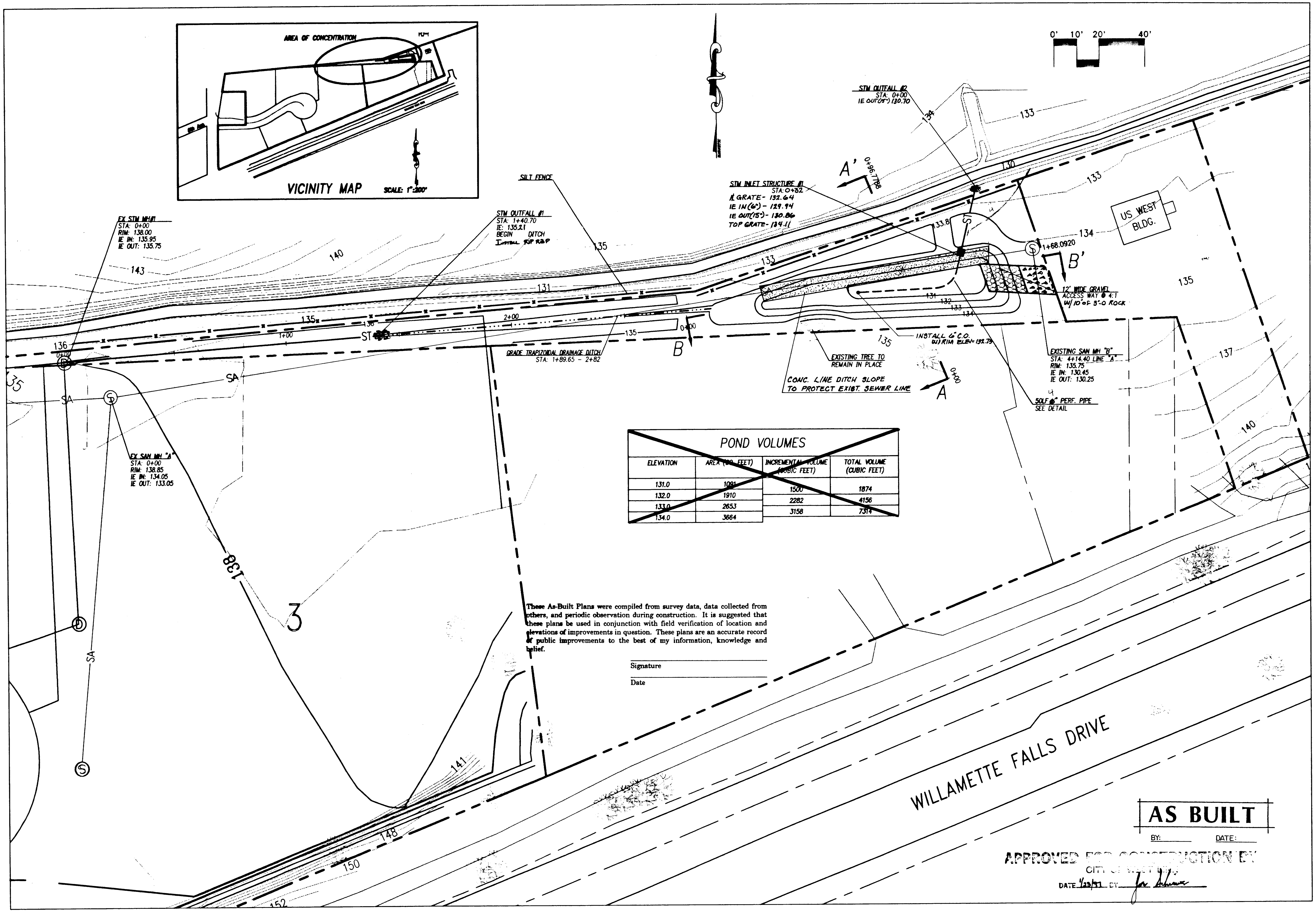
otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: AS LISTED

DRAWING NO. D4647STR

PROJECT NO. 4647

SHEET NO. 7 OF 7



POND VOLUMES

ELEVATION	AREA (SQ. FEET)	INCREMENTAL VOLUME (CUBIC FEET)	TOTAL VOLUME (CUBIC FEET)
131.0	1091		
132.0	1910	1500	1874
133.0	2653	2282	4156
134.0	3664	3158	7314

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

Date

AS BUILT

BY: DATE:

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
DATE 1/23/97 BY

MFK DESIGNED	10-25-95 DATE
JLN DRAWN	11-2-95 DATE
G.O.E. CHECKED	11-2-95 DATE

REVISIONS | NO. | DATE | BY | CHK | APPD.

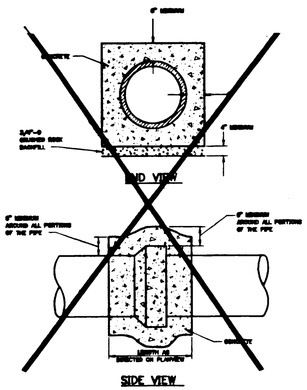
REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPTEMBER 28, 1994 M. FARES KERMIA
EXPIRES JUNE 30, 1997
1-23-97

10 TH ST COMMERCIAL
DETENTION POND
CITY OF WEST LINN
OREGON

KOSS, BROD, GOODRICH & ASSOCIATES
19363 WILLAMETTE DR, #509
WEST LINN, OREGON 97068

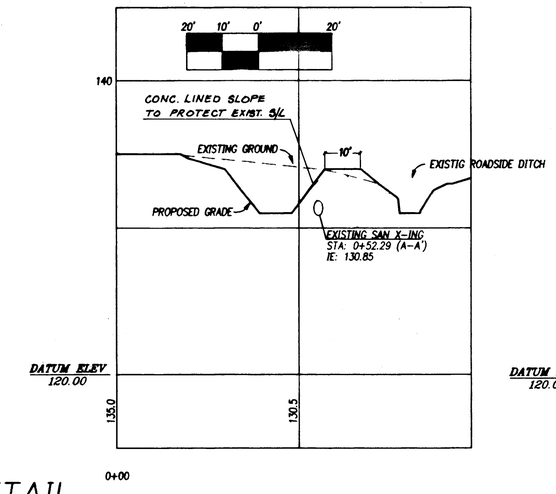
otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: 1"=20'
DRAWING NO. D4647SWM
PROJECT NO. 4647
SHEET NO. 1/2



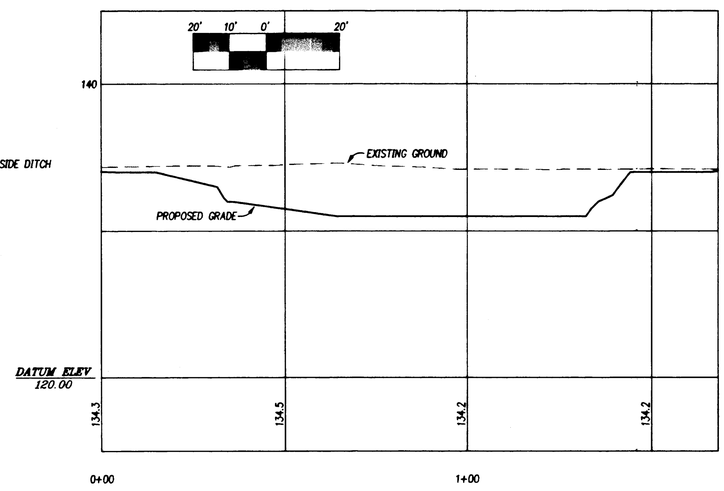
CONCRETE ENCASEMENT DETAIL

NOT TO SCALE



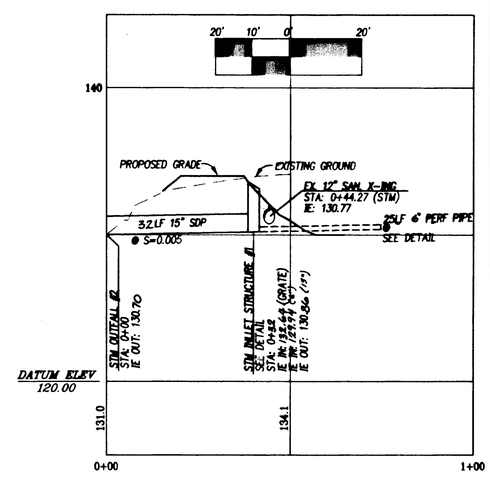
SECTION A-A'

SCALE 1":20' HORZ
1":5' VERT



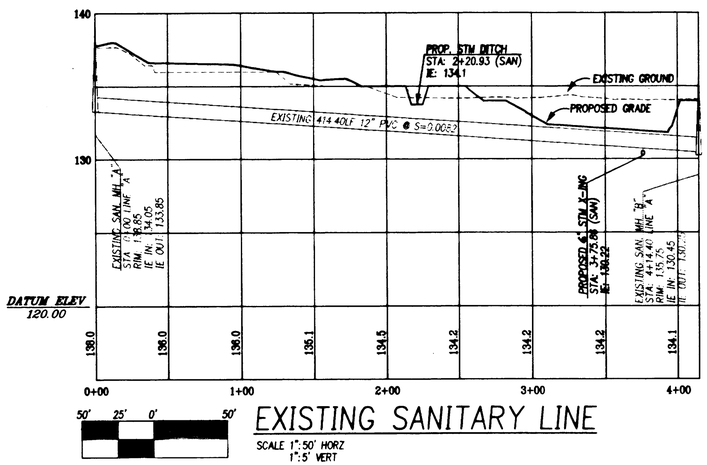
SECTION B-B'

SCALE 1":20' HORZ
1":5' VERT



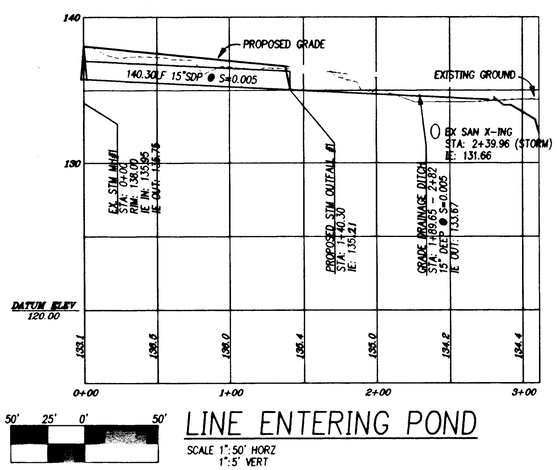
STM LINE LEAVING POND

SCALE 1":20' HORZ
1":5' VERT



EXISTING SANITARY LINE

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

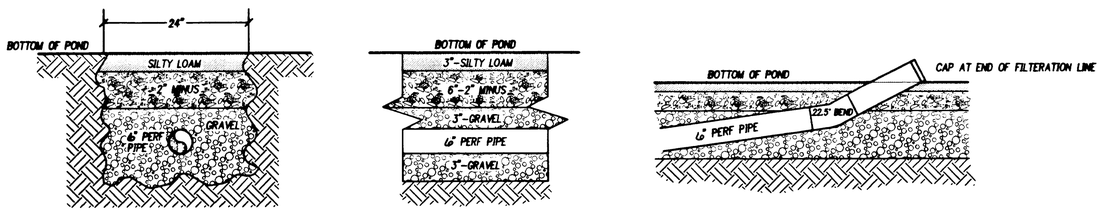


LINE ENTERING POND

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

PERF PIPE DETAILS

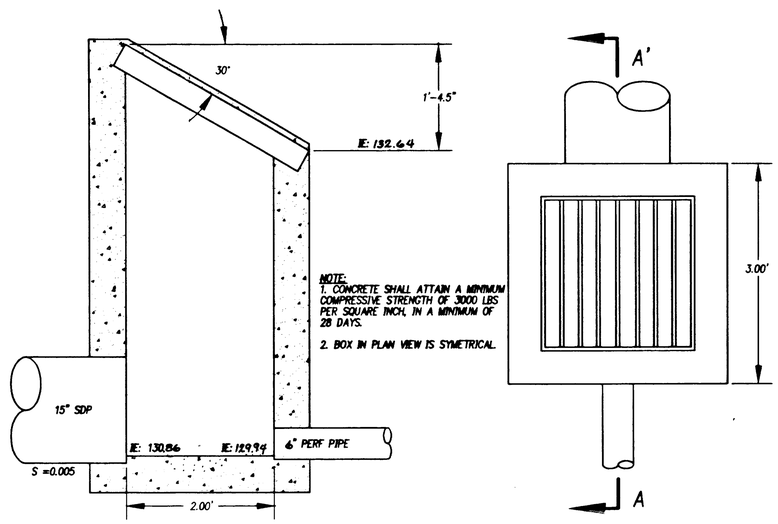
NOT TO SCALE



APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
DATE 12/2/97 BY

INLET STRUCTURE DETAIL

NOT TO SCALE



NOTE:
1. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 LBS PER SQUARE INCH, IN A MINIMUM OF 28 DAYS.
2. BOX IN PLAN VIEW IS SYMETRICAL.

SECTION A-A'

PLAN

AS BUILT

BY: DATE:

FARES DESIGNED	10-25-95 DATE
JLN DRAWN	11-2-95 DATE
G.O.E CHECKED	11-2-95 DATE

REVISIONS | NO. | DATE | BY | CHK | APPD.

REGISTERED PROFESSIONAL ENGINEER 18447 OREGON SEPTEMBER 23, 1994 G. FARES KERNTIA
EXPIRES JUNE 30, 1997
1-23-97

10 TH ST COMMERCIAL
DETENTION POND
CITY OF WEST LINN
OREGON

KOSS, BROD, GOODRICH & ASSOCIATES
19363 WILLAMETTE DR, #509
WEST LINN, OREGON 97068

otak incorporated
17355 S.W. BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
(503)635-3618
FAX (503)635-5395

SCALE: AS LABLED
DRAWING NO. D46473WM
PROJECT NO. 4647
SHEET NO. 2/2