ROSEMONT SUMMIT II SUBDIVISION
PHASE B - 21 LOTS
CITY OF WEST LINN
SITE DEVELOPMENT PLANS

PROJECT TEAM
- CLIENT: KOSS REAL ESTATE
TEL: 503-557-1144

- ENGINEER: OTAK
PROJECT MANAGER - M. FARES KEKHIA PE
TEL: 503-635-3618
FAX: 503-635-5395

GENERAL NOTES

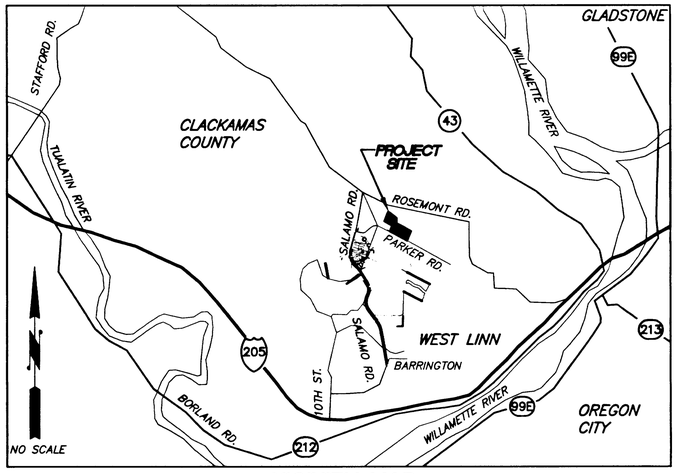
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "CITY OF WEST LINN STREET/UTILITY DESIGN AND CONSTRUCTION STANDARDS", DATED MAY 22, 2000. ALL STREET, STORM SEWER AND SANITARY SEWER CONSTRUCTION THAT IS NOT ADDRESSED IN THE CITY'S STANDARDS SHALL BE IN ACCORDANCE WITH APWA STANDARDS. ALL WATER SYSTEM CONSTRUCTION THAT IS NOT ADDRESSED IN THE CITY'S STANDARDS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS. CONTRACTOR TO OBTAIN A COPY OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT PRIOR TO CONSTRUCTION. REPORT BY SQUIRE ASSOCIATES DATED NOVEMBER 12, 1998.
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 GEOTECHNICAL ENGINEER.
4. ALL FILL AREAS SHALL BE STRIPPED OF ORGANIC MATERIAL. FILL WILL BE PLACED IN 8-INCH LAYERS AND COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY ACCORDING TO AASHTO T-180 STANDARDS. BASE ROCK IN THE STREET SHALL BE COMPACTED TO THE SAME STANDARD. LANDSCAPE AREAS SHALL BE COMPACTED TO 90 PERCENT. THE CONTRACTOR SHALL PROVIDE DENSITY TESTING, ONE FOR EVERY 10,000 SQUARE FEET OF AREA AND FOR EVERY 2 LAYERS OR 16" AND EVERY 100 LINEAR FEET OF FILL PLACED. COMPACTION REPORTS FROM A NATIONALLY ACCREDITED TESTING LAB SHALL 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 SHALL BE SEEDED PER EROSION CONTROL NOTES ON SHEET 5 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 RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APWA DRAWING 206.
8. THE FOLLOWING CITY OF WEST LINN DETAILS SHALL BE USED AS SPECIFIED IN THE PLANS:
   TRENCH BACKFILL - DWG. WL-200
   CLEANOUT - DWG. WL-206
   STANDARD MANHOLE - DWG. WL-207
   SHALLOW MANHOLE - DWG. WL-208
   FLEXIBLE MANHOLE CONNECTION - DWG. WL-212
   MANHOLE FRAME AND COVER - DWG. WL-300
   FIRE HYDRANT ASSY. - DWG. WL-401
   STANDARD WATER SERVICE - DWG. WL-402
   WATERLINE BLOWOFF - DWG. WL-404B
   AIR RELEASE ASSY. - DWG. WL-405
   HORIZONTAL WATERLINE THRUST BLOCKING - DWG. WL-406
   WATERLINE STRADDLE BLOCK - DWG. WL-408
   VALVE BOX DETAIL - DWG. WL-411
   BLOWOFF VALVE BOX - DWG. WL-412
   CURBS - DWG. WL-501
   COMMERCIAL DRIVEWAY - DWG. WL-504
   PARALLEL CURB RAMP - DWG. WL-506
   TWIN CURB RAMP - DWG. WL-507B
   SIDEWALK CROSS SECTION - DWG. WL-508
   STREET BARRICADE - DWG. WL-516
   COMBINATION CURB INLET - DWG. WL-601
   TYPE G-1 CB WITH SUMP - DWG. WL-602
   FRAME AND GRATE DEATIL - DWG. WL-602A
   POLLUTION CONTROL MANHOLE - DWG. WL-607
   OUTLET HEADWALL - DWG. WL-613
   STORM SEWER OUTFALL - DWG. WL-614
9. DURING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL CONFORM TO CLACKAMAS COUNTY EROSION CONTROL STANDARDS AND WILL BE STRICTLY ENFORCED.
10. ALL AGGREGATE MATERIAL SHALL CONFORM TO APWA STANDARDS.
11. IN CASE OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE FIGURES WRITTEN THEREON, THE FIGURES SHALL BE DEEMED TO GOVERN.
12. 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 48 HOURS IN ADVANCE OF THE NEED FOR SAID STAKES. ONLY REQUESTS FROM AUTHORIZED REPRESENTATIVES WILL BE HONORED. ANY RESTAKING WILL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
13. THE DESIGN ENGINEER WILL PROVIDE THE CITY OF WEST LINN A LETTER INDICATING THAT THE IMPROVEMENTS WERE CONSTRUCTED PER THE DESIGN PLANS AND SPECIFICATIONS
14. WEEK DAY WORK HOURS ARE 7 AM TO 6 PM; SATURDAY, SUNDAY, AND HOLIDAY WORK HOURS ARE LIMITED TO 9 AM TO 6 PM.
15. THE CITY OF WEST LINN SHALL BE SUPPLIED WITH A COPY OF ALL TEST RESULTS

STORM/SANITARY SEWERS:

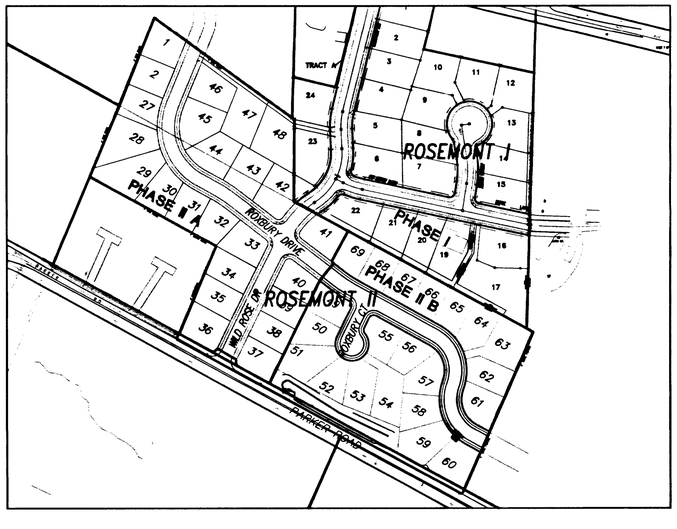
16. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WEST LINN'S STANDARD PLANS
17. TRENCH BACKFILL IN PAVED AREAS WILL BE 3/4-INCH TO 0-INCH CRUSHED ROCK COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-180.
18. ALL SANITARY SEWER AND STORM PIPE LATERALS SHALL BE MATERIALS IN ACCORDANCE WITH CITY OF WEST LINN SPECIFICATIONS D-3034. FOR STORM MAINS, USE "UTLRA-RIB" PVC CONFORMING TO ASTM F-794 AND THE CITY OF WEST LINN SPECIFICATIONS.
19. UNLESS NOTED OTHERWISE, SANITARY SEWER SERVICES SHALL BE 4" PVC WITH A MINIMUM SLOPE OF 2%. STORM SEWER SERVICES SHALL BE 6" WITH A MINIMUM SLOPE OF 2%.
20. PRIOR TO ACCEPTANCE, ALL PUBLIC SANITARY SEWERS SHALL BE TV, PRESSURE, AND DEFLECTION TESTED IN ACCORDANCE WITH THE CITY OF WEST LINN'S REQUIREMENTS. ALL PUBLIC STORM STORM SEWERS SHALL BE TV AND DEFLECTION TESTED.
21. MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. FINAL ELEVATIONS SHALL BE SET TO MATCH CONSTRUCTED FINISH GRADE.
22. SANITARY MANHOLES 16, AND 17, AS WELL AS STORM MANHOLE 10 NEED TO HAVE A NON-SKID MANHOLE COVER

WATERLINES:

23. ALL WATER PIPE AND FITTINGS SHALL BE DUCTILE IRON CLASS 52 AND CONFORM TO STANDARD CITY SPECIFICATIONS AND DETAILS.
24. 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 WITH A MINIMUM TEST PRESSURE OF 180 PSI. WHEN THE PRESSURE TEST IS PERFORMED, THE TEST PRESSURE OF 180 PSI SHALL STABILIZE BEFORE THE TEST BEGINS. SERVICE LINES WILL ALSO BE TESTED TO THE METER LOCATION IF INSTALLED BY THE CONTRACTOR.
25. 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.
26. PRIOR TO CONNECTION TO EXISTING WATERLINE, A SAMPLE SHALL BE TAKEN AND TESTED FOR BACTERIOLOGICAL QUALITY. RESULTS MUST BE WITHIN STANDARDS OF THE STATE OF OREGON.
27. 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. ALL PIPE FITTINGS IN CONTACT WITH CONCRETE SHALL BE WRAPPED IN PLASTIC.
28. MINIMUM COVER OVER WATERLINES IS TO BE 36" AS MEASURED FROM FINISH GRADE TO TOP OF PIPE. MINIMUM VERTICAL SEPARATION BETWEEN WATERLINE AND SANITARY SEWER AT A CROSSING IS 18". SANITARY SEWER AT WATERLINE CROSSINGS WITH LESS THAN THE MINIMUM VERTICAL SEPARATION SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH WATERTIGHT JOINTS. IN SUCH CASES THE 18-FOOT LENGTH OF SANITARY SEWER SHALL BE CENTERED AT THE CROSSING.
29. ALL WATER SERVICES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 2' AT THE MAINLINE.



VICINITY MAP



PROJECT MAP

NOT TO SCALE

SHEET INDEX

LEGEND

PROPOSED		EXISTING	
	ROW/PROPERTY LINE		EXISTING EDGE OF PAVEMENT
	EASEMENT	500	EXISTING 2' CONTOUR
	LOT LINE	000	EXISTING 10' CONTOUR
SS	PROPOSED SANITARY LINE	T	EXISTING TELEPHONE MANHOLE
SD	PROPOSED STORM LINE	W	EXISTING WATER LINE
W	PROPOSED WATER LINE	GAS	EXISTING GAS LINE
	PROPOSED STORM MANHOLE	T	EXISTING TELEPHONE LINE
	PROPOSED CATCH BASIN	E	EXISTING ELECTRIC LINE
	PROPOSED SANITARY MANHOLE		EXISTING STREET LIGHT
	GATE VALVE		
	BLOW OFF		EXISTING PERPENDICULAR CURB RAMP
	FIRE HYDRANT		
	WATER METER		PARALLEL CURB RAMP
	PROPOSED PRIVATE CLEAN OUT		
XX	SILT FENCE	SS	EXISTING SANITARY LINE (PHASE A)
	SIDEWALK	ST	EXISTING STORM LINE (PHASE A)
	STREET LIGHT		
	STREET BARRICADE TYPE III		EXISTING STORM MANHOLE (PHASE A)
	AIR RELEASE		EXISTING CATCH BASIN (PHASE A)
	PERPENDICULAR CURB RAMP		EXISTING GATE VALVE (PHASE A)
			EXISTING BLOW OFF (PHASE A)
	PARALLEL CURB RAMP		EXISTING FIRE HYDRANT (PHASE A)
			EXISTING WATER METER (PHASE A)

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.

LOCATING EXISTING UTILITIES

--- 48 HOUR NOTICE REQUIRED PRIOR TO EXCAVATION ---

ONE CALL SYSTEM
(GENERAL TELEPHONE, NORTHWEST NATURAL GAS, U.S. WEST, U.S. SPRINT) (503) 246-6699

PORTLAND GENERAL ELECTRIC (503) 643-5454, EXT. 312, 313, 314

TCI CABLE TELEVISION 243-7491

REPAIR EMERGENCIES

NORTHWEST NATURAL GAS (503) 226-4211, EXT. 4413

CITY OF WEST LINN
WATER OPERATIONS (503) 656-3535
SANITARY SEWER OPERATIONS

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

ATTENTION EXCAVATORS: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of these rules from the Center by calling (503) 232-1987. If you have any questions about the rules, you may contact the call Center. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL (503) 246-6699.

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
10/29/01
Checked By Date

REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPTEMBER 28, 1984 M. FARES KEKHIA
EXPIRES JUNE 30, 2001

"AS-BUILT" DATE 10-24-01 BY SAS

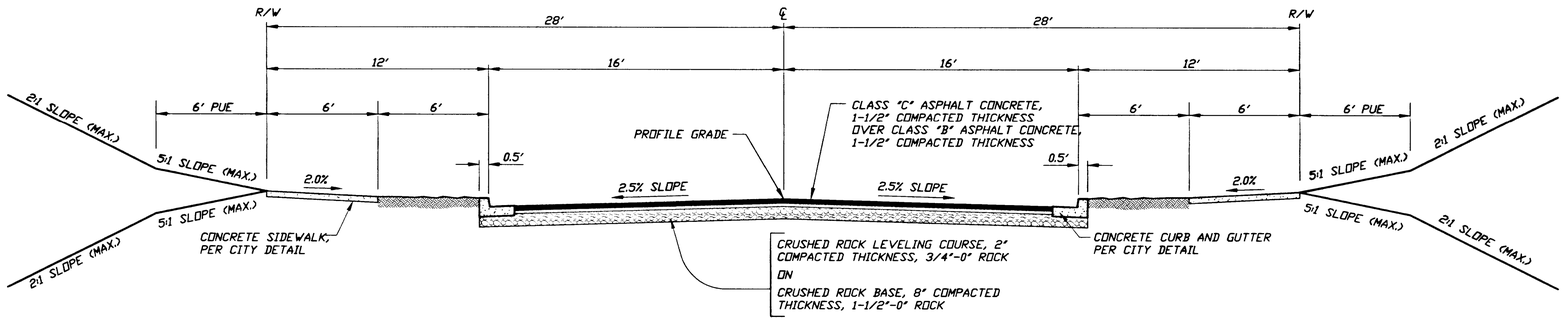
KOSS REAL ESTATE
1098 S. ROSEMONT
WEST LINN, OR 97068
Phone: (503) 557-1144
Fax: (503) 557-1294

ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON
COVER SHEET

otak Incorporated
17355 SW Boones Ferry Rd.
Lake Oswego, Oregon 97035
Phone: (503) 635-3618
FAX: (503) 635-5395

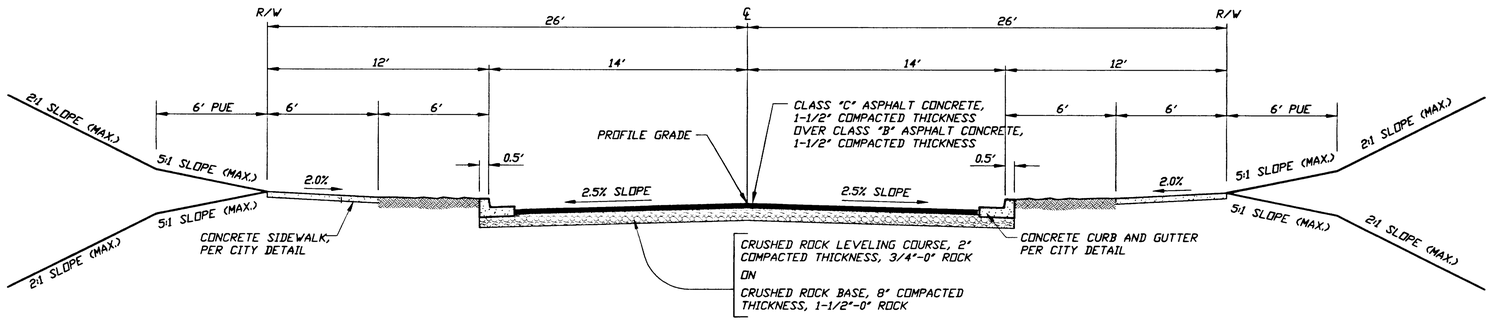
L9754
Project No.
D754S01B
File No.
S01B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001



32' ROAD

ROXBURY DRIVE



28' ROAD

ROXBURY COURT

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
Checked By Date

REGISTERED PROFESSIONAL ENGINEER
17447
OREGON
SEPTEMBER 28, 1984
M. FARES KEKHIA
EXPIRES JUNE 30, 2001

"AS-BUILT"
DATE 10-26-01 BY SAS

KOSS REAL ESTATE
1098 S. ROSEMONT
WEST LINN, OR 97068
Phone: (503) 557-1144
Fax: (503) 557-1294

ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON

TYPICAL STREET SECTIONS & CONDITION OF APPROVAL

otak
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17355 SW Boones Ferry Rd.
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L9754
Project No.
D754S02
File No.
S02B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
Checked By Date

REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPTEMBER 29, 1994 W. FARES KERMIA
EXPIRES JUNE 30, 2001

"AS-BUILT"
DATE 10-26-01 BY SAS

KOSS REAL ESTATE
1098 S. ROSEMONT
WEST LINN, OR 97068
Phone: (503) 557-1144
Fax: (503) 557-1294

ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON
COMPOSITE UTILITY PLAN

otak Incorporated
17355 SW Boones Ferry Rd.
Lake Oswego, Oregon 97035
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FAX: (503) 635-5395

L9754
Project No.
D754S03B
File No.
S03B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001

0' 25' 50' 100'

LEGEND
- EXISTING STORM LINE
- SD PROPOSED STORM LINE
- SD FUTURE STORM LINE
- WA EXISTING WATER LINE
- W PROPOSED WATER LINE
- W FUTURE WATER LINE
- SS EXISTING SAN LINE
- SS PROPOSED SAN LINE
- WATER PRESSURE ZONE
- PHASE LINE
- FENCE LINE
- RETAINING WALL
- (S) HOMES TO BE BUILT WITH FIRE FIGHTING SPRINKLERS

DUTTON
TAX LOT 1501
ZONING FU10

FOSTER
TAX LOT 1301
ZONING FU10

KILKENNY
TAX LOT 1100
ZONING FU10

VARNER
TAX LOT 1302
ZONING FU10

RICHMOND
TAX LOT 1701
ZONING FU10

MORTON
TAX LOT 1601
ZONING FU10

OLSEN
TAX LOT
ZONING FU10

WESLEY
TAX LOT 700
ZONING FU10

SABO
TAX LOT 1800
ZONING R3/R20

TRACT A

LOT 48 WATER SERVICE

ROXBURY DRIVE

ROXBURY COURT

WILD ROSE DRIVE

PARKER ROAD

EXISTING STORM FACILITY

ROSEMONT PRESSURE ZONE DOWN TO ELEVATION 620'

HORTON PRESSURE ZONE UP TO ELEVATION 620'

PHASE I

PHASE II A

PHASE II B

5' PRIVATE STM EASEMENT

15' PRIVATE SAN/STM EASEMENT

15' PUBLIC STM EASEMENT

15' PUBLIC SAN EASEMENT

60' EXISTING R/W

TRACT B

GRADING/EROSION CONTROL CONSTRUCTION SEQUENCE

1. INSTALL CONSTRUCTION ENTRANCE
2. INSTALL STAGE I PERIMETER SILT FENCING OR OTHER APPROVED SEDIMENT CONTROL MEASURES
3. INSTALL CATCH BASIN PROTECTION
4. CALL FOR INSPECTION AND APPROVAL OF THE ABOVE LISTED ITEMS
5. CONSTRUCT SURFACE WATER CONTROLS SIMULTANEOUSLY WITH CLEARING AND GRADING
6. CONSTRUCT SEDIMENT PONDS/BIO-SWALES AS PER APPROVED EROSION CONTROL PLANS
7. INSTALL STAGE II SILT FENCING OR OTHER APPROVED SEDIMENT CONTROL MEASURES
8. HYDROSEED EXPOSED AREA UPON COMPLETION OF GRADING

GRADING PLAN SHOWN FOR INFORMATIONAL PURPOSES ONLY.
GRADING PLAN APPROVED BY BUILDING DEPT. ON 8/30/99
PERMIT # 9-9-413

GRADING LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- CONSTRUCTION ENTRANCE
- X — SILT FENCE STAGE I
- XX — SILT FENCE STAGE II
- EROSION CONTROL FOR C.B
- 452 — POPOSED 2' CONTOUR
- 650 — PROPOSED 10' CONTOUR
- 452 — EXISTING 2' CONTOUR (ROSEMONT I)
- 650 — EXISTING 10' CONTOUR (ROSEMONT I)

PHASE I
PHASE II A
PHASE II B
ROXBURY DRIVE
ROXBURY COURT
WILD ROSE DRIVE
PARKER ROAD
EXISTING STORM FACILITY

FOSTER
TAX LOT 1301
ZONING FU10

DUTTON
TAX LOT 1501
ZONING FU10

KILKENNY
TAX LOT 1100
ZONING FU10

VARNER
TAX LOT 1302
ZONING FU10

MORTON
TAX LOT 1601
ZONING FU10

RICHMOND
TAX LOT 1701
ZONING FU10

OLSEN
TAX LOT
ZONING FU10

WESLEY
TAX LOT 700
ZONING FU10

SABO
TAX LOT 1800
ZONING R3/R20

0' 25' 50' 100'

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
Checked By Date

KOSS REAL ESTATE
1098 S. ROSEMONT
WEST LINN, OR 97068
Phone: (503) 557-1144
Fax: (503) 557-1294

ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON
GRADING AND EROSION CONTROL PLAN
FOR INFORMATIONAL PURPOSES ONLY

AS-BUILT DRAWINGS OCTOBER 26, 2001

otak Incorporated
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FAX: (503) 635-5395

L9754
Project No.
D754S04B
File No.
S04B
Sheet No.

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 24 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.

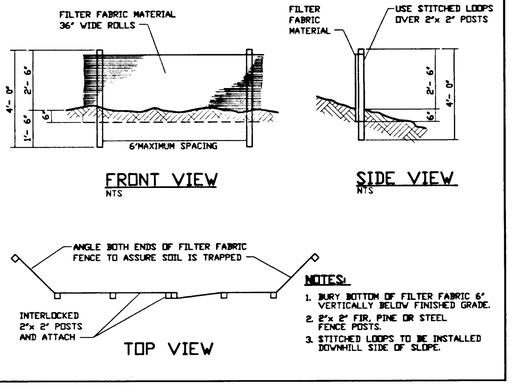
WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRE OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES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

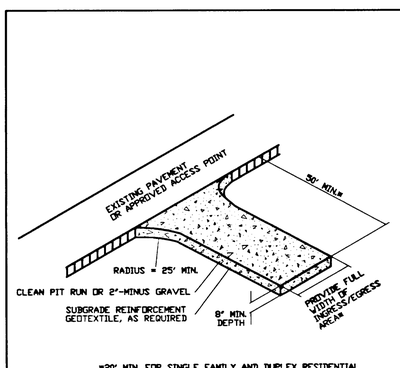
THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 30 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

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.

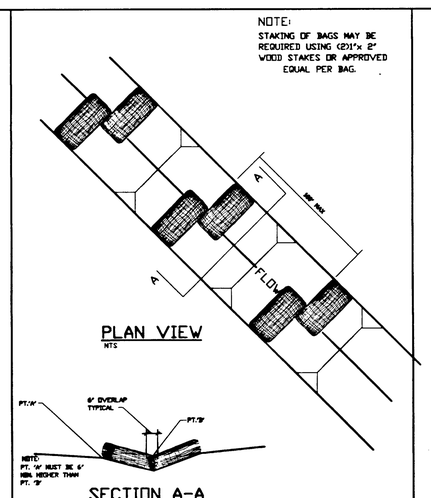
SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

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.

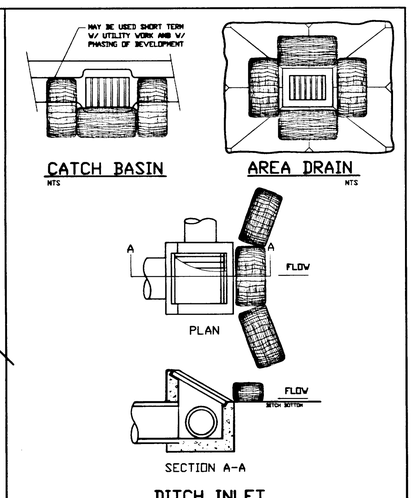




Gravel Construction Entrance
Detail Drawing 3-1A



Biofilter Bag
Ditches and Swales



Biofilter Bags
Temporary
Detail Drawing 3-7B

EROSION CONTROL MATRIX

EROSION MEASURES / SITE SITUATION	1 GRAVEL CONSTRUCTION ENTRANCE	2 SEDIMENT FENCE/BARRIER AT TOE OF DISTURBED AREA OR STOCKPILE	3 SIDEWALK SUBGRADE GRAVEL BARRIER (SITE SLOPES TO STREET AT <5% GRADE) ALTERNATE TO #2	4 UNDISTURBED BUFFER AT TOE OF DISTURBED AREAS (ALTERNATE TO #2) (SITE SLOPES <10%)	5 SEDIMENT FENCE OR BARRIER INSTALLED ON CONTOURS (SPACING)	6 TEMP. INTERCEPTOR DIKES/SWALES AROUND ACTIVE WORK AREAS	7 CHECK DAMS	8 STORM DRAIN INLET PROTECTION BARRIER	9 6-MIL PLASTIC SHEET COVER	10 2"- MIN. STRAW MULCH COVER	11 ESTABLISH GRASS	12 EROSION BLANKETS WITH ANCHORS	13 SEDIMENT TRAP OR POND	14 RE-ESTABLISH VEGETATION OR LANDSCAPE PRIOR TO REMOVAL OF EROSION CONTROL MEASURES
SINGLE FAMILY/ DUPLEX RESIDENTIAL														
SLOPE <2%	X		A(2)											X
SLOPE >2%	X	X		A(2)										X
STOCK PILES		X		X					■	□				
COMERCIAL, SUBDIVISION LARGE SITE CONSTRUCTION														
SITE SLOPE <2%	X	X							□					X
SITE SLOPE <10%	X	X		A(2)	X300'	●			□	□		0		X
SITE SLOPE <15%	X	X			X150'	●			□	□	■	0	□	X
SITE SLOPE <20%	X	X			X100'	●			□	□	■	0	□	X
SITE SLOPE <30%	X	X			X 50'	●			□	□	■	0	□	X
SITE SLOPE <50%	X	X			X 25'	●			□	□	■	0	□	X
STOCK PILE SLOPE >50%	X	X			X 25'	●			□	□	■	0	□	X
UTILITIES CONSTRUCTION														
CATCH BASIN DRAINAGE								X						X
DITCH DRAINAGE							X							X
STOCK PILES														
STOCK PILES									■	□				
DITCHES/SWALES														
(CONSTRUCTION/PROTECTION)		X					X		■	□	0			X

KEY: X = BASE MEASURE A = ALTERNATE TO BASE MEASURE INDICATED IN PARENTHESIS # = OPTIONAL BASE MEASURE CAN USE AS APPLICABLE

■ = SUPPLEMENTAL WET WEATHER MEASURE (NOVEMBER 1-APRIL 30) (SEEDING PRIOR TO SEPTEMBER 1) □ = ALTERNATE WET WEATHER MEASURE TO ■

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ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON
EROSION CONTROL NOTES AND DETAILS

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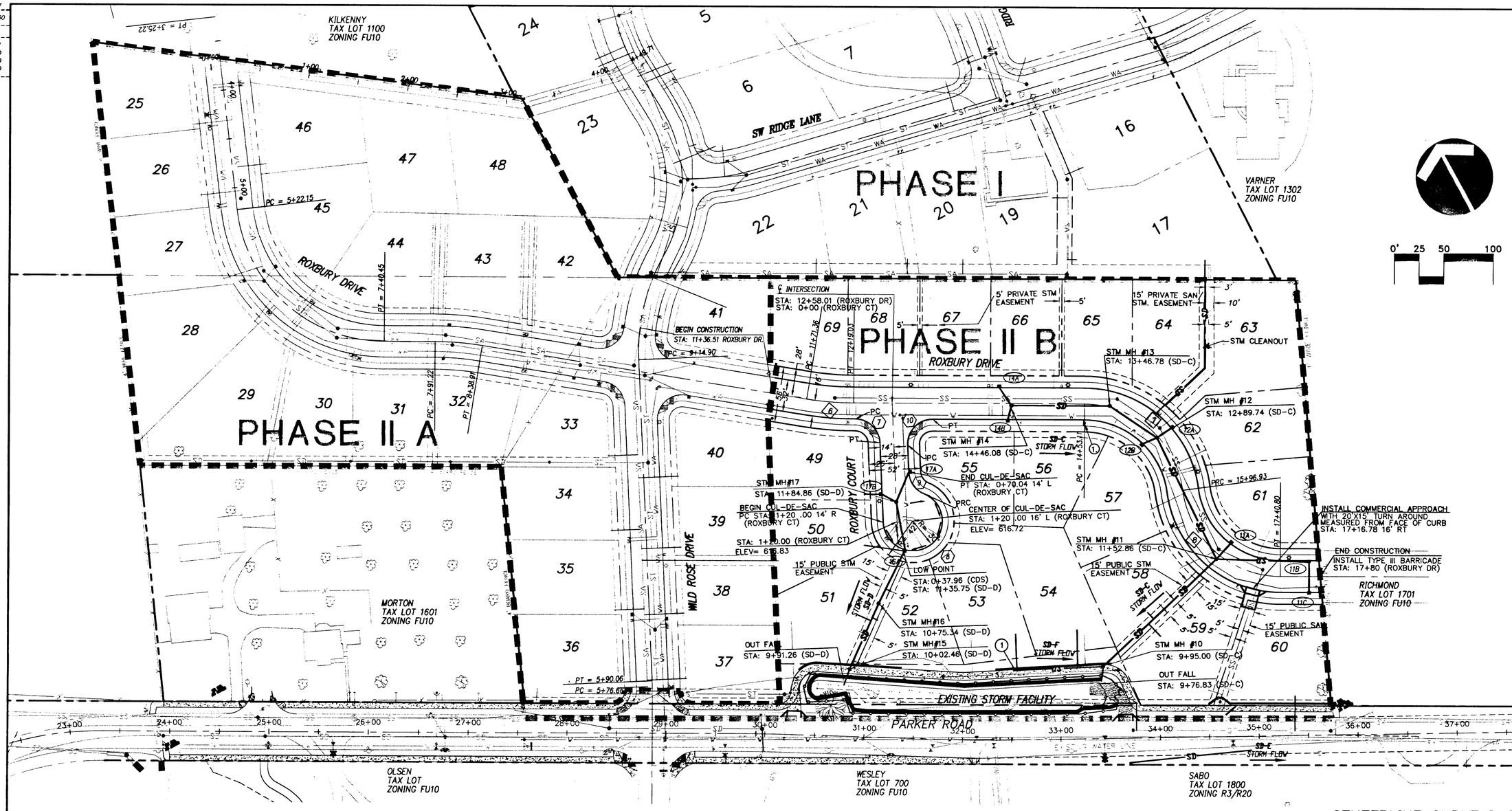
L9754
Project No.
D754S05B
File No.
S05B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001



CURB INFORMATION (T.O.C ELEVATION)

(7) PC AT STA: 12+20.83 16.00' R (ROXBURY DR)
R = 25.00' PC: 629.50
L = 38.14' 1/4: 628.88
△ = 87°24'50" 1/2: 628.16
3/4: 627.43
PT: 626.71
PT AT STA: 0+39.28 14.00' R (ROXBURY CT)

(10) PC AT STA: 0+42.80 14.00' L (ROXBURY CT)
R = 25.00' PC: 626.43
L = 40.40' 1/4: 627.05
△ = 92°35'10" 1/2: 627.24
3/4: 626.99
PT: 626.49
PT AT STA: 12+98.90 16.00' R (ROXBURY DR)

CUL-DE-SAC INFORMATION

(8) PC AT STA: 1+20.00 14.00' R (ROXBURY CT)
R = 30.00'
L = 128.43' **SEE CUL-DE-SAC PROFILE ON SHEET SC07B**
△ = 245°16'4"
PRC AT STA: 0+92.75 28.55' L (ROXBURY CT)

(9) PRC AT STA: 0+92.75 28.55' L (ROXBURY CT)
R = 25.00'
L = 28.48' **SEE CUL-DE-SAC PROFILE ON SHEET SC07B**
△ = 65°16'49"
PT AT STA: 0+70.04 14.00' L (ROXBURY CT)

GUTTER INLET / CATCH BASIN INFORMATION

(11A) STA: 16+76.26 16.00' R TO FACE OF CURB (ROXBURY DR)
TOC: 594.56
IE OUT: 589.30
22 LF 10" STM
S= 0.1891
USE DETAIL WL-601

(11B) STA: 17+69.79 16.00' L TO FACE OF CURB (ROXBURY DR)
TOC: 585.14
IE IN: 582.30
IE OUT: 582.25
94 LF 12" STM
S= 0.0057
USE DETAIL WL-601

(11C) STA: 17+69.79 16.00' R TO FACE OF CURB (ROXBURY DR)
TOC: 585.05
IE OUT: 582.86
30.6 LF 10" DIP STM
S= 0.0183
USE DETAIL WL-601

(12A) STA: 15+38.73 16.00' L TO FACE OF CURB (ROXBURY DR)
TOC: 607.50
IE OUT: 602.64
19 LF 10" STM
S= 0.0620
USE DETAIL WL-601

(12B) STA: 15+30.41 16.00' R TO FACE OF CURB (ROXBURY DR)
TOC: 608.16
IE OUT: 602.45
15 LF 10" STM
S= 0.0532
USE DETAIL WL-601

(14A) STA: 13+66.86 16.00' L TO FACE OF CURB (ROXBURY DR)
TOC: 622.44
IE OUT: 617.64
22 LF 10" STM
S= 0.1344
USE DETAIL WL-601

(14B) STA: 13+75.66 16.00' R TO FACE OF CURB (ROXBURY DR)
TOC: 621.87
IE OUT: 617.17
14 LF 10" STM
S= 0.1743
USE DETAIL WL-601

(16A) STA: 0+37.96 (CUL-DE-SAC)
TOC: 613.90
IE IN: 609.01
IE OUT: 608.45
USE DETAIL WL-601

(17A) STA: 0+70.04 14.00' L TO FACE OF CURB (ROXBURY CT)
TOC: 623.74
IE OUT: 617.70
33 LF 10" STM
S= 0.1489
USE DETAIL WL-601

(17B) STA: 0+91.56 14.00' R TO FACE OF CURB (ROXBURY CT)
TOC: 620.50
IE OUT: 616.00
16 LF 10" STM
S= 0.0745
USE DETAIL WL-601

LEGEND

- EXISTING STORM LINE
- PROPOSED STORM LINE
- FUTURE STORM LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- FUTURE WATER LINE
- EXISTING SAN LINE
- PROPOSED SAN LINE
- WATER PRESSURE ZONE
- PHASE LINE
- FENCE LINE
- RETAINING WALL

PRIVATE STORM SEWER CONSTRUCTION NOTES

(1) SD-F STA 0+90.66
CLEANOUT
RIM = 584.52, IE = 581.00

STORM MANHOLE TABLE

MH #	STM STATION	RIM	INVERT OUT	ALIGNMENT
10	9+95.00	584.47	579.00	SD-C
11	11+52.86	594.62	581.47	SD-C
12	12+89.74	607.48	601.43	SD-C
13	13+46.78	613.10	606.60	SD-C
14	14+46.08	621.51	614.61	SD-C
15	10+02.46	585.02	576.42	SD-D
16	10+75.34	615.60	608.63	SD-D
17	11+84.86	619.92	612.67	SD-D

MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

(1) SPEED LIMIT 20 – MUTCD DETAIL #R2-1 (24" X 30")

CENTERLINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
6	300.00	47.67	23.88	9°06'13"
7	100.00	143.82	87.55	82°24'11"
8	100.00	143.87	87.59	82°25'51"

STORM LATERAL TABLE

Lot No.	STORM Station	Length (l.f.)	Invert @ main	Slope	Invert @ end of lateral	Alignment
49	CB 17B	15	616.21	0.1288	618.18	SD-D
50	CB 16A	42	609.35	0.0880	613.00	SD-D
51	10+42	16	599.37	0.3810	605.39	SD-D
52	10+52	6	601.71	0.2534	603.19	SD-D
53	0+88	37	586.41	0.2598	595.97	SD-F
54	0+28	39	585.09	0.2366	594.20	SD-F
58	10+65	9	585.56	1.3978	598.00	SD-C
59	10+58	18	585.45	0.5457	595.00	SD-C
*60	35+37	35	562.87	0.1252	567.00	EX-STM

LOTS 55 – 57, AND 61 – 69, WILL ALL BE SERVICED BY WEEPHOLES FOR STORM CONNECTIONS

*LATERAL FOR LOT 60 IS TO BE CONSTRUCTED WITH PARKER RD.

1/30/01
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RK / WJK
Drawn
Checked By Date

REGISTERED PROFESSIONAL ENGINEER 17447 OREGON SEPTEMBER 28, 1984 M. FARES KEKHIA
EXPIRES JUNE 30, 2001

"AS-BUILT"
DATE 10-26-01 BY SAS

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ROSEMONT SUMMIT II SUBDIVISION
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STREET AND STORM DRAIN PLAN

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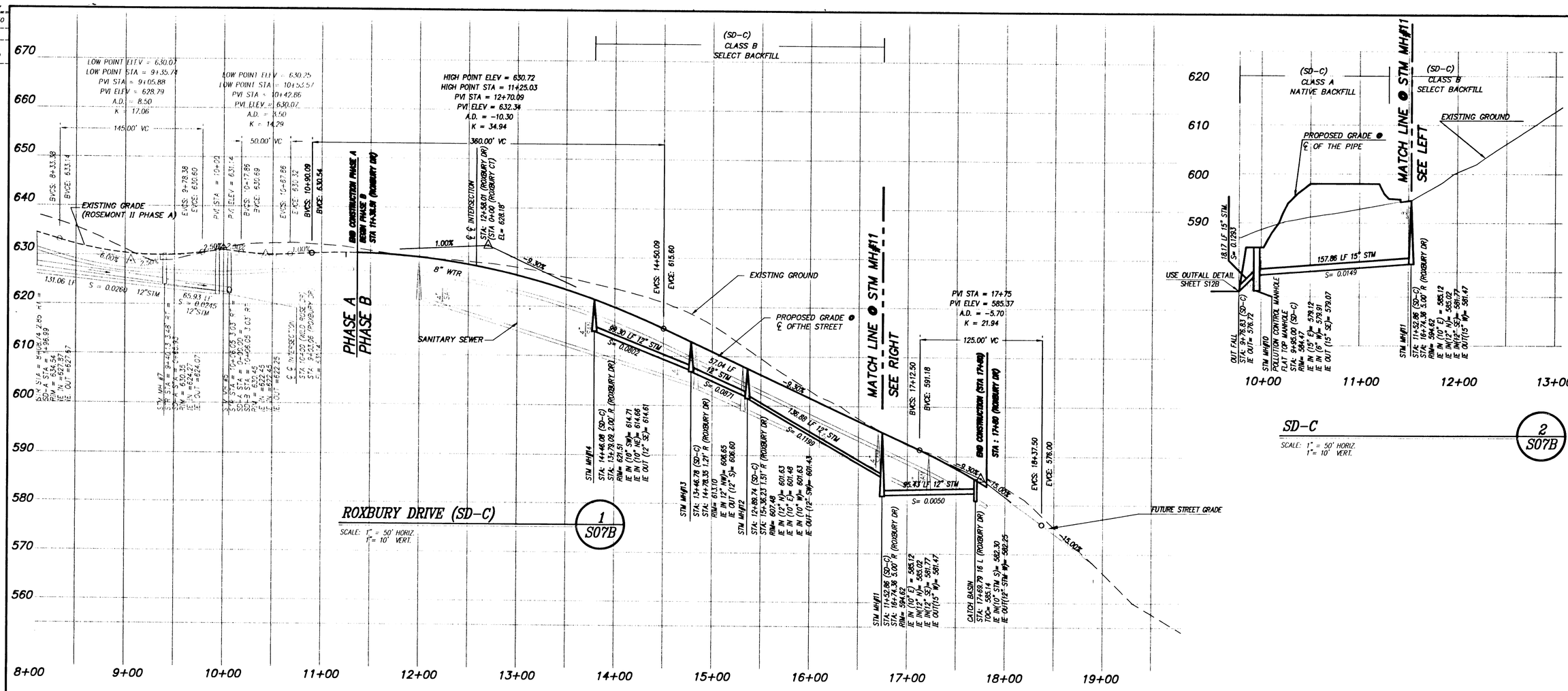
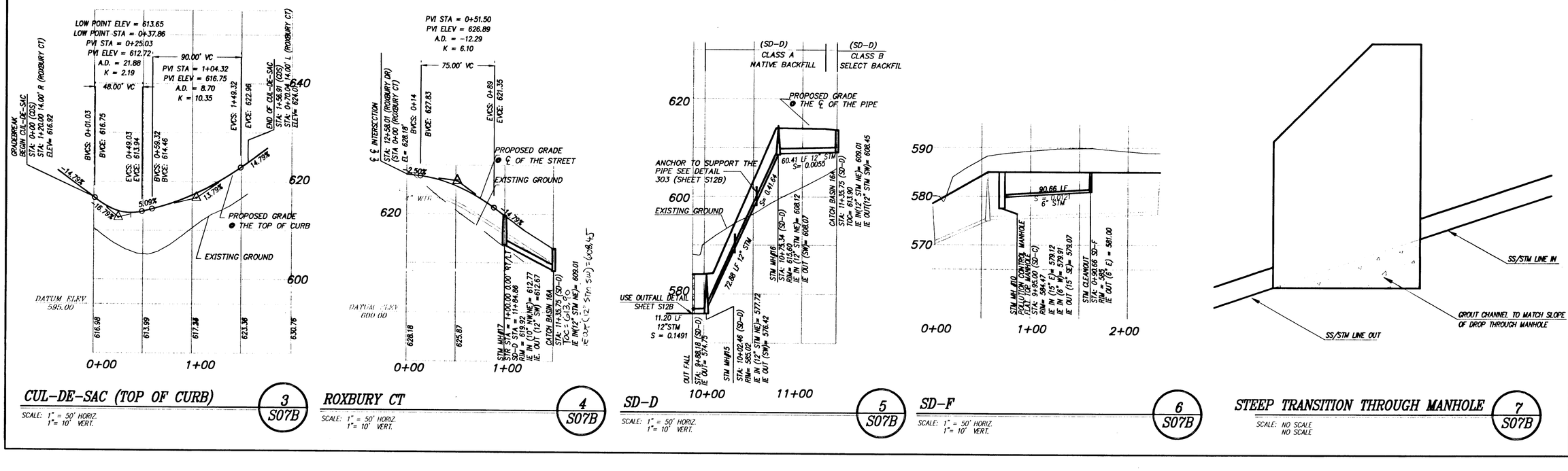
Project No.
D754S06B
File No.
S06B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001





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REGISTERED PROFESSIONAL ENGINEER
17447
OREGON
SEPTEMBER 28, 1990
M. FARES KEKHIA
EXPIRES JUNE 30, 2001

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DATE 10-26-01 BY SAS

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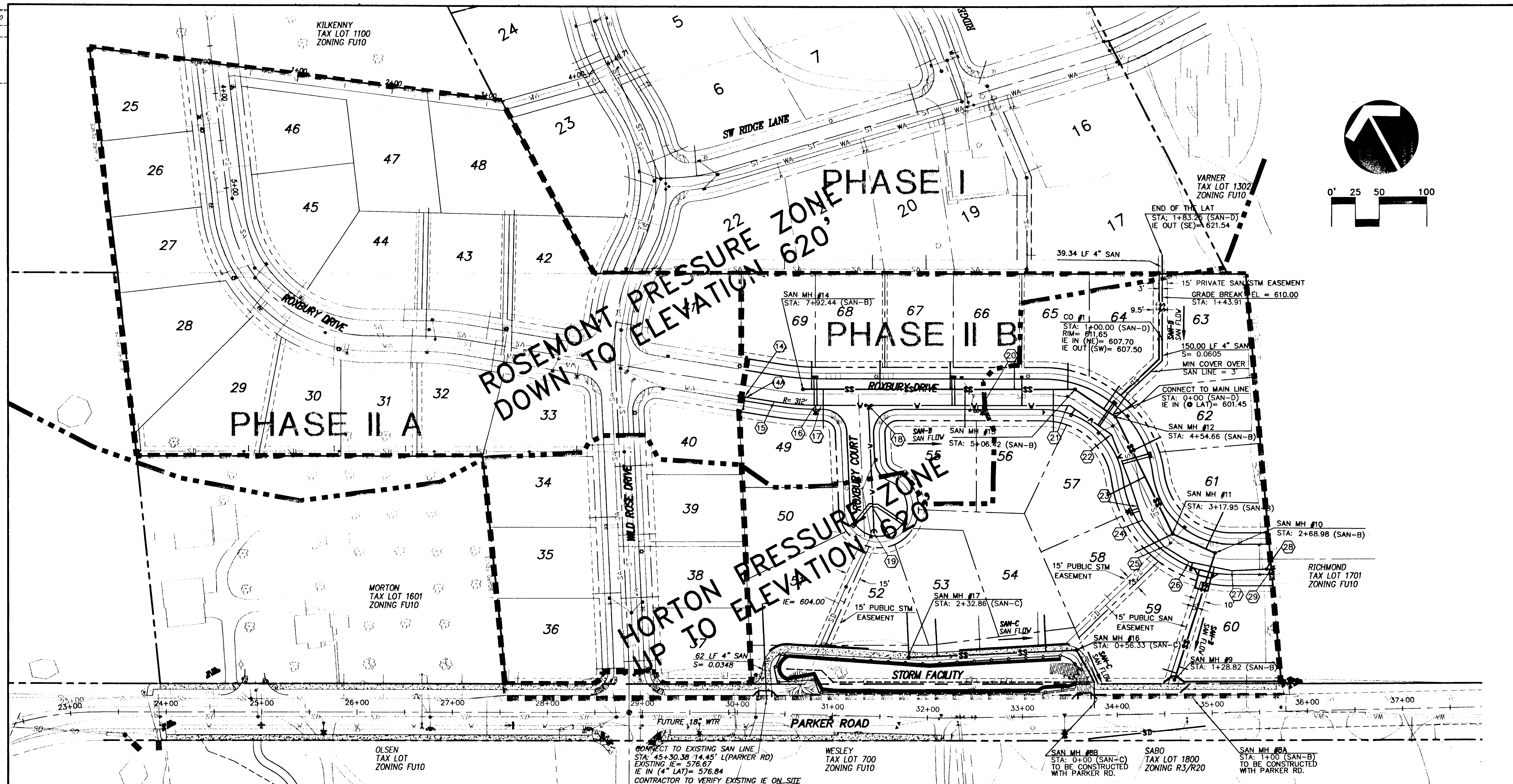

WATER LINE CONSTRUCTION NOTES

WATER LINE STATION REFER TO ℄ OF THE STREET

(14) STA: 11+40.12 12.00' R (ROXBURY DR)
CONNECT TO EXISTING WATER LINE
REMOVE BLOWOFF

(4A) STA: 11+42.12 25.00' R (ROXBURY DR)
INSTALL AIR RELEASE ASSEMBLY

(15) WTR PC STA: 11+71.36 12.00' R (ROXBURY DR)

(16) STA: 12+13.34 12.00' R (ROXBURY DR)
INSTALL FIRE HYDRANT

(17) WTR PT STA: 12+19.03 12.00' R (ROXBURY DR)

(18) STA: 12+68.57 12.00' R (ROXBURY DR)
INSTALL 8"x 8"x 4" TEE WITH 2-8" AND 1-4"
GATE VALVES

(19) STA: 1+46.00 10.11' LT (EXTENSION ROXBURY CT)
INSTALL BLOWOFF

(20) STA: 13+88.59 12.00' R (ROXBURY DR)
INSTALL FIRE HYDRANT

(21) STA: 14+83.46 7.79' R (ROXBURY DR)
INSTALL 1-11°25' BEND, 1-22°50' BEND
DEFLECT TO 34°53'05"
USE RESTRAINED JOINT IN ADDITION TO THRUST BLOCK

(22) STA: 15+42.64 8.32' R (ROXBURY DR)
INSTALL 1-11°25' BEND, 1-22°50' BEND
DEFLECT TO 34°08'01"
USE RESTRAINED JOINT IN ADDITION TO THRUST BLOCK

(23) STA: 16+21.04 8.15' R (ROXBURY DR)
INSTALL FIRE HYDRANT

(24) STA: 16+39.28 10.86' R (ROXBURY DR)
INSTALL 22°50' BEND DEFLECT
TO 20°13'59"

(25) STA: 16+71.16 12.00' R (ROXBURY DR)
INSTALL 22°50' BEND DEFLECT
TO 19°00'25"

(26) STA: 16+99.24 12.00' R (ROXBURY DR)
INSTALL 22°50' BEND DEFLECT
TO 19°57'01"

(27) STA: 17+40.80 12.00' R (ROXBURY DR)
INSTALL 11°25' BEND DEFLECT
TO 14°28'26"

(28) STA: 17+77.09 10.37' R (ROXBURY DR)
INSTALL 8" GATE VALVE

(29) STA: 17+82.42 10.13' R (ROXBURY DR)
INSTALL BLOWOFF

LEGEND

- EXISTING STORM LINE
- PROPOSED STORM LINE
- FUTURE STORM LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- FUTURE WATER LINE
- EXISTING SAN LINE
- PROPOSED SAN LINE
- WATER PRESSURE ZONE
- PHASE LINE
- FENCE LINE
- RETAINING WALL

SAN MANHOLE TABLE

MH #	SEWER STATION	RIM	INVERT OUT	ALIGNMENT
8A	1+00.00	572.82	564.04	SAN-B
8B	0+00.00	578.54	569.69	SAN-C
9	1+28.82	576.36	570.71	SAN-B
10	2+68.98	590.15	580.75	SAN-B
11	3+17.95	595.11	585.86	SAN-B
12	4+54.66	607.89	598.29	SAN-B
13	5+06.42	612.34	603.14	SAN-B
14	7+92.44	629.90	620.70	SAN-B
16	0+56.33	584.29	574.49	SAN-C
17	2+32.86	584.42	575.67	SAN-C

SANITARY SEWER LATERAL TABLE

Sanitary Sewer Line SAN-B

Lot No.	Sewer Station	Length (l.f.)	Invert @ main	Slope	Invert @ end of lateral
17	4+58	188	598.66	VARIES	621.54
49	7+69	41	619.26	.0505	621.33
50	2+75	138	595.89	.0588	604.00
55	6+22	40	610.23	.1943	618.00
56	5+29	43	604.52	.0807	607.99
57	3+84	45	591.86	.0880	595.82
58	MH #11	44	586.06	.0945	590.22
59	1+36	15	571.22	.0593	572.11
60	1+43	10	571.73	.1210	572.94
61	2+79	42	581.80	.1726	589.05
62	4+14	33	594.59	.1191	598.52
63	MH #12	28	598.49	.0989	601.26
64	4+69	29	599.63	.1093	602.80
65	5+14	28	603.60	.2286	610.00
66	5+70	29	607.04	.1707	611.99
67	6+38	28	611.22	.1214	614.12
68	7+11	30	615.70	.2100	622.00
69	7+83	29	620.12	.0721	622.21

SANITARY SEWER LATERAL TABLE

Sanitary Sewer SAN-C

Lot No.	Sewer Station	Length (l.f.)	Invert @ main	Slope	Invert @ end of lateral
52	MH#17	47	579.32	.4928	599.03
53	2+2	39	575.47	.4638	593.56
54	0+88	39	574.70	.5603	596.55

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ROSEMONT SUMMIT II SUBDIVISION

PHASE B
CITY OF WEST LINN, OREGON

SANITARY SEWER AND WATER PLAN

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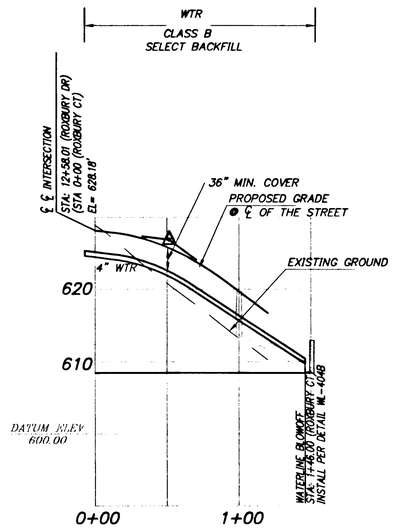
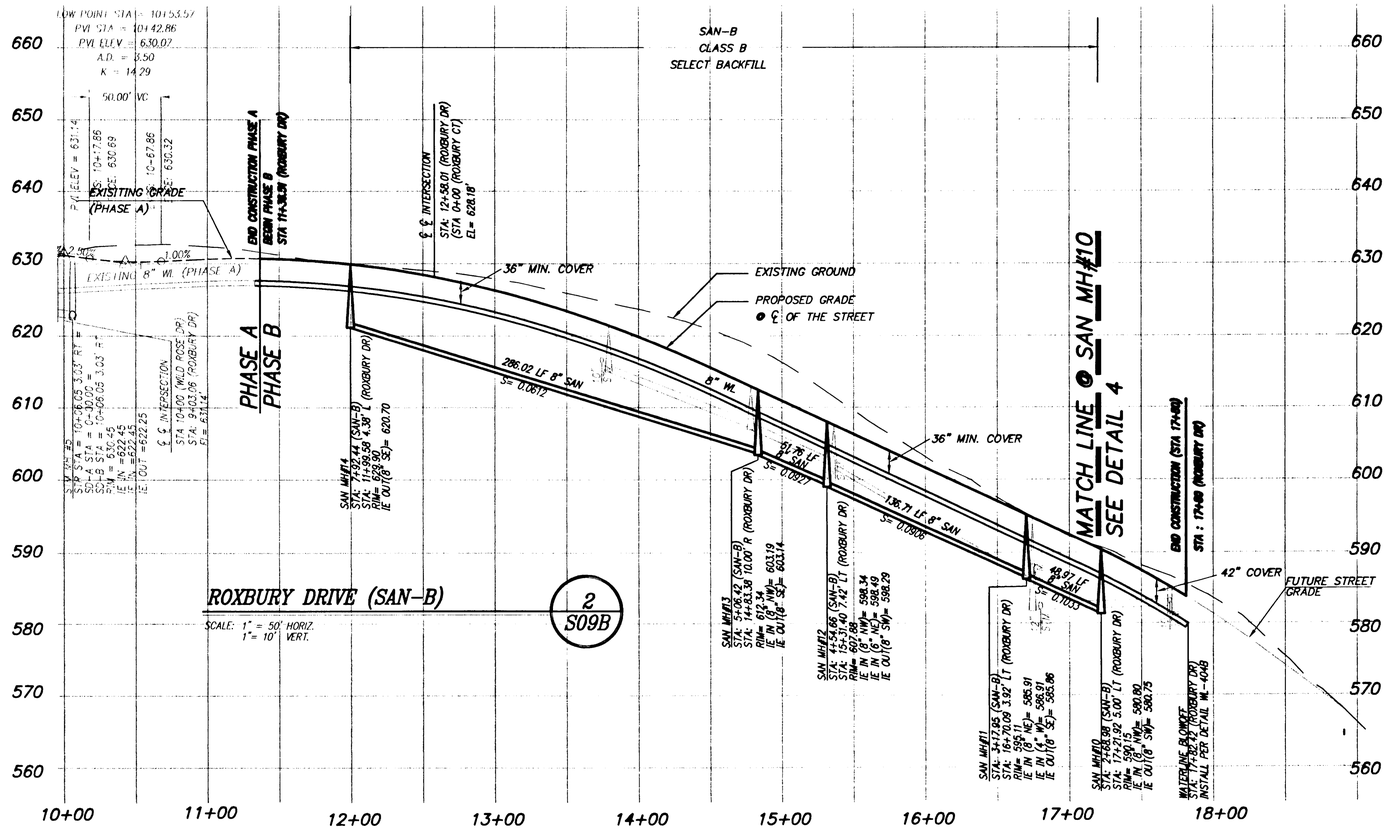


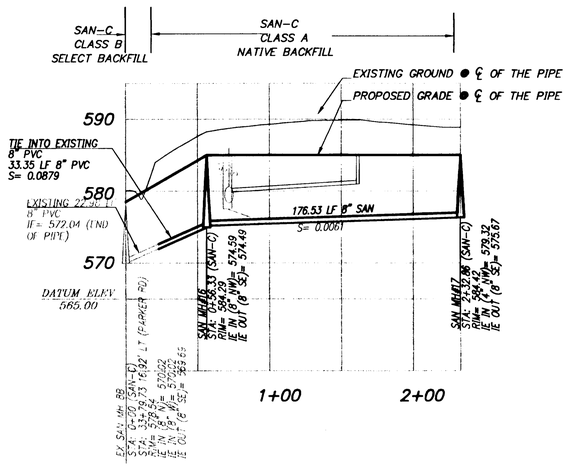
ROXBURY CT (WTR) — 1 / S09B

SCALE: 1" = 50' HORIZ.
1"= 10' VERT.



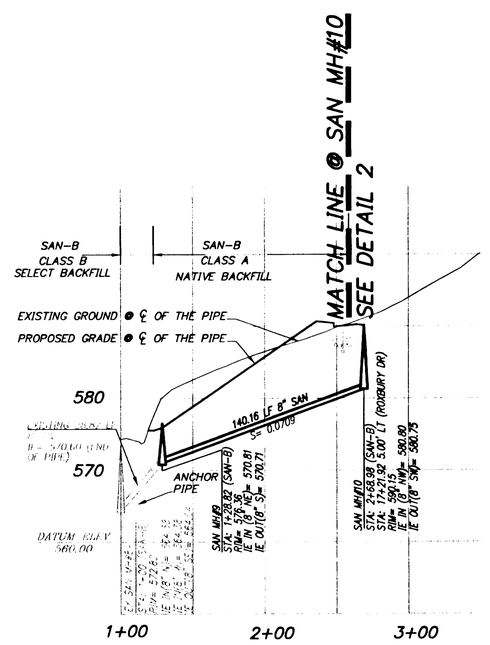
ROXBURY DRIVE (SAN-B) — 2 / S09B

SCALE: 1" = 50' HORIZ.
1"= 10' VERT.



SAN-C — 3 / S09B

SCALE: 1" = 50' HORIZ.
1"= 10' VERT.



SAN-B — 4 / S09B

SCALE: 1" = 50' HORIZ.
1"= 10' VERT.

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
Checked By Date

REGISTERED PROFESSIONAL ENGINEER
17447
OREGON
SEPTEMBER 28, 1982
M. FARES KEMNA
EXPIRES JUNE 30, 2001

KOSS REAL ESTATE
1095 S. ROSEMONT
WEST LINN, OR 97068
Phone: (503) 657-0144
Fax: (503) 557-1294

"AS-BUILT"
DATE 10-26-01 BY SAS

ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON
SANITARY SEWER AND WATER PROFILES

otak
Incorporated
17355 SW Boones Ferry Rd.
Lake Oswego, Oregon 97035
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FAX: (503) 635-5395

L9754
Project No.
D754S09B
File No.
S09B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001

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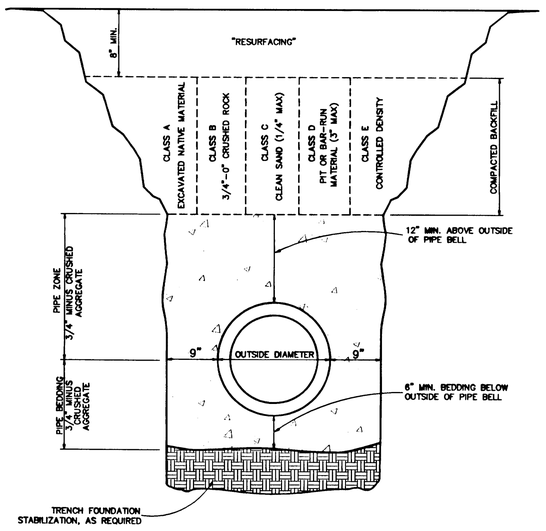
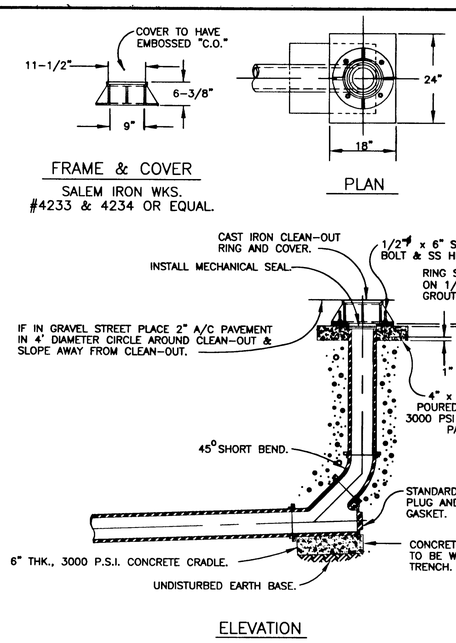


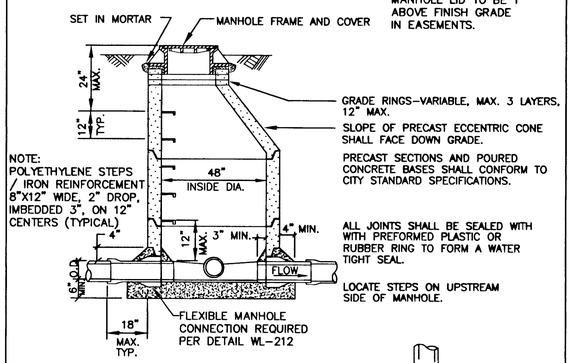
Trench Backfill, Bedding and Pipe Zone

West Linn | DATE: JAN 2000 | DRAWING NO. WL-200 | FILE NO. 00-200



Standard Clean Out

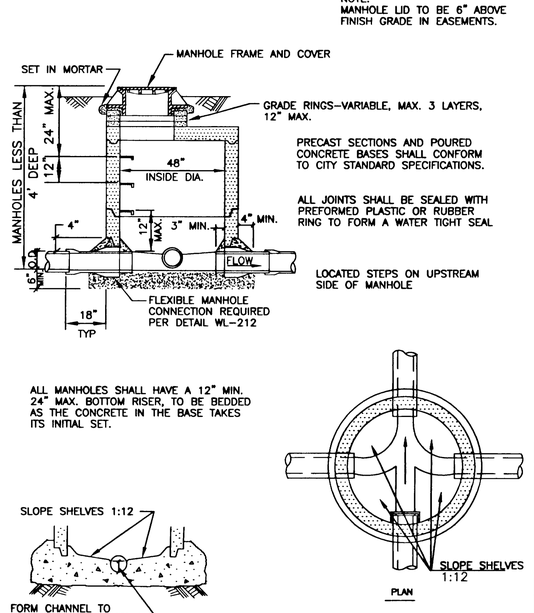
West Linn | DATE: JAN 2000 | DRAWING NO. WL-206 | FILE NO. 00-206



NOTE: CHANNELS MUST BE ABLE TO PASS A 7"X30" CYLINDER INTO PIPES. SHELF SHALL NOT BE BELOW THE TOP OF THE PIPE.

Standard Manhole for Less than 36" Pipe

West Linn | DATE: JAN 2000 | DRAWING NO. WL-207 | FILE NO. 00-207



NOTE: CHANNELS MUST BE ABLE TO PASS A 7"X30" CYLINDER INTO PIPES. SHELF SHALL NOT BE BELOW SPRING LINE OF THE PIPE.

Shallow Manhole for Less than 36" Pipe

West Linn | DATE: JAN 2000 | DRAWING NO. WL-208 | FILE NO. 00-208

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
Checked By Date

KOSS REAL ESTATE
1098 S. ROSEMONT
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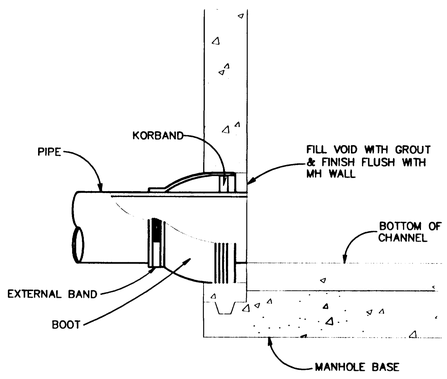
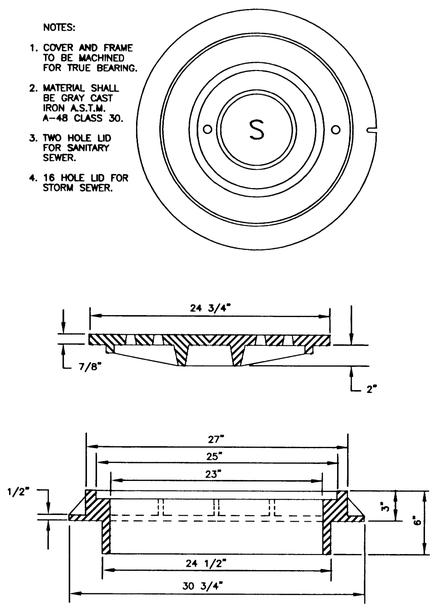


FLEXIBLE MANHOLE CONNECTION
(KOR-N-SEAL OR EQUAL)

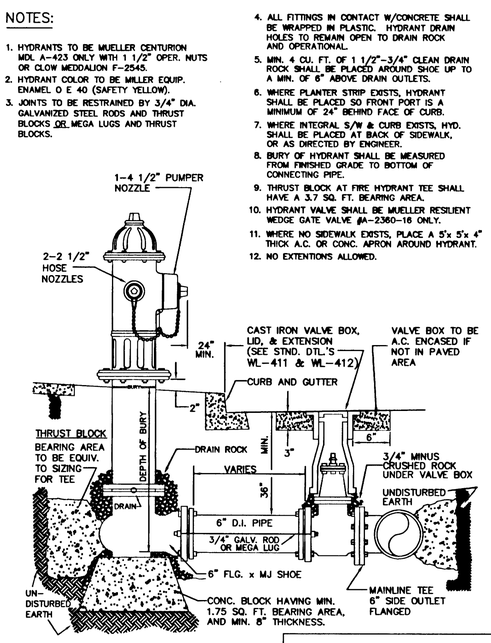
Flexible Manhole Connection

West Linn | DATE: JAN 2000 | DRAWING NO. WL-212 | FILE NO. 00-212



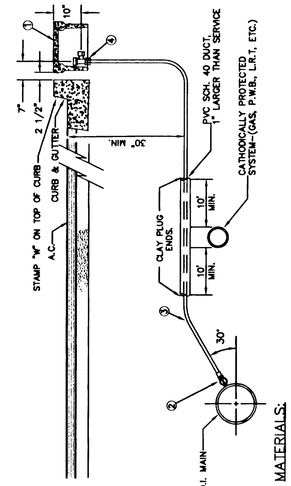
Suburban Manhole Frame and Cover 3" Depth

West Linn | DATE: JAN 2000 | DRAWING NO. WL-300 | FILE NO. 00-300



Standard Fire Hydrant Assembly

West Linn | DATE: JAN 2000 | DRAWING NO. WL-401 | FILE NO. 00-401



MATERIALS:
1. BROOKS METER BOX, BODY NO. 37, LID AND COVER NO. 37-S.
2. MUELLER CORP. STOP NO. H-15008 OR FORD F1000-4Q SET CORP. STOP WITH OPERATING NUT AT 3 OR 9 O'CLOCK.
3. 1" SOFT TEMPER, TYPE "K" COPPER TUBING COMPLYING WITH ASTM B-88.
4. MUELLER ANGLE METER STOP NO. H-14258 (FORD NO. KV43-444W-Q).

NOTES:
1. SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER.
2. ALL PIPE AND STRUCTURE ZONES SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 95% MAX DENSITY AS DETERMINED BY AASHTO T-180.
3. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.
4. METER BOX SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY.
5. FOR VACANT RESIDENTIAL LOTS, LOCATE SINGLE SERVICE 18" INSIDE SIDE LOT LINE.
6. TAPS INTO MAIN TO BE AT 18" CENTERLINE MIN.
7. ANGLE METER STOPS TO BE 18" FROM PROPERTY LINE AND NOT IN DRIVEWAY APPROACH.

Standard 1" Water Service

West Linn | DATE: JAN 2000 | DRAWING NO. WL-402 | FILE NO. 00-402

ROSEMONT SUMMIT II SUBDIVISION
PHASE B
CITY OF WEST LINN, OREGON
DETAIL SHEET

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L9754
Project No.
D754S10B
File No.
S10B
Sheet No.

AS-BUILT DRAWINGS OCTOBER 26, 2001

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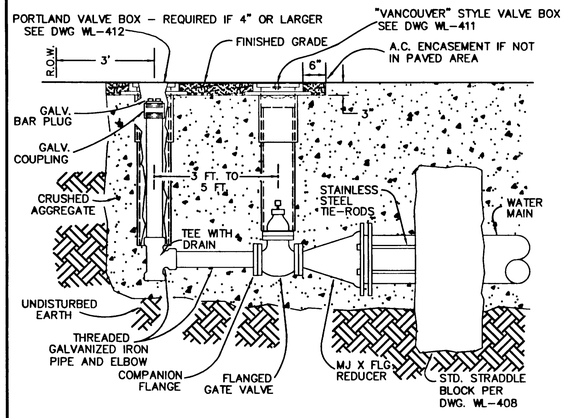
BLOW-OFF SIZES REQUIRED	
MAIN SIZE	BLOW-OFF SIZE
4" TO 6"	2"
8" TO 12"	4"
14" TO 18"	6"
20" & UP	PER ENGR.

NOTES:
1. BACKFILL WITH SELECT CRUSHED AGGREGATE A MINIMUM OF 6" ON ALL SIDES.
2. ON TEMPORARY BLOW-OFFS ONLY, AN MJ CAP TAPPED 4" OR 6" MAY BE SUBSTITUTED FOR REDUCER.
3. TEMPORARY BLOW-OFF IS ONE REMOVED AT THE END OF PROJECT CONSTRUCTION. A PERMANENT BLOW-OFF REMAINS ON THE PROJECT AFTER ACCEPTANCE.
4. PLACE BLOW-OFF STANDPIPE 3 FT. INSIDE R.O.W. LINE AT END OF STREET (2FT. FROM BARRICADE).

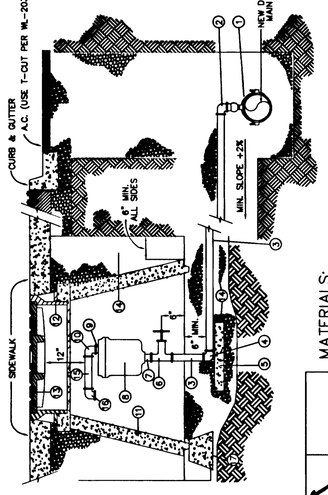


Permanent or Temporary 4" & 6" Blow-off

West Linn

DATE: JAN 2000
DRAWING NO. WL-404B
FILE NO. 00-404B

NOTES:
1. INSTALLATION LOCATED AT HIGH POINT OF MAIN
2. 48" MANHOLE BARREL SECTIONS SHALL BE USED TO INCREASE DEPTH IF NECESSARY
3. ALL PIPE AND STRUCTURE ZONES SHALL BE COMPACTED TO 95% OF MAX. DENSITY AS DETERMINED BY AASHTO T-180 OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
4. STD. DETAIL IS NOT FOR SHALLOWER THAN TYPICAL INSTALLATIONS. CONTACT CITY WATER DEPT. FOR OPTIONS.



MATERIALS:
1. ROCKWELL NO. 317 SERVICE SADDLE WITH STAINLESS STRAPS
2. MUELLER NO. H15045 2" CORPORATION STOP WITH 1/4 BEND ADAPT (I.P.T. MUELLER 110 CTS)
3. 2" X VARIABLE LENGTH BRASS I.P.T. NIPPLE
4. 2" BRASS 90 DEGREE ELL (MUELLER 110 CTS)
5. 12" X 12" X 4" CONCRETE BLOCK
6. NIBCO NO. 113 2" BRASS GATE VALVE
7. 2" X 3" BRASS I.P.T. NIPPLE
8. 2" AIR RELEASE VALVE (VAL-MATIC #38 OR APCO #205 FOR TYPICAL INSTALLATIONS. IN SOME INSTANCES THE CITY MAY REQUIRE COMBINATION AIR RELEASE & VACUUM UNIT.) INSTALL WALL BRACKETS TO SUPPORT VALVE AS NECESSARY.
9. 1/2" X 1 1/2" OR 2" X 1 1/2" BRASS I.P.T. NIPPLE
10. 1/2" OR 2" BRASS 90 DEGREE ELL (F.M. I.P.T. X F.M. I.P.T.)
11. STD. 48" CONCRETE MANHOLE CONE
12. FRAME PER STD. DWG. WL-214.
13. TAMPERPROOF MANHOLE COVER PER STD. DWG. WL-214.
14. 3/4" MINUS CRUSHED AGG.
15. 1/2" X 6" OR 2" X 6" BRASS NIPPLE. I.P.T.
16. 1/2" OR 2" BRASS 90 DEGREE ELL WITH SCREEN ON OUTLET
17. 3 EA. 12" CONCRETE PIER BLOCKS

Standard Air Release Valve Unit

West Linn

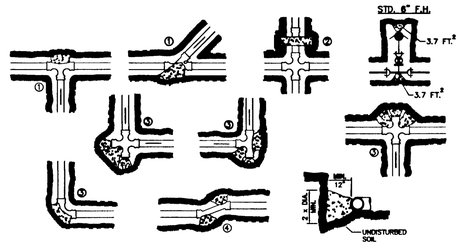
DATE: JAN 2000
DRAWING NO. WL-405
FILE NO. 00-405

FITTING SIZE (inches)	TEE, WYE, & ① HYDRANTS	STRADDLE BLOCK ②	90° BEND ③ PLUGGED CROSS TEE PLUGGED-RUNS	45° BEND ④	22 1/2° BEND ④	11 1/2° BEND ④
2	•	•	•	•	•	•
4	1.7	2.1	2.4	1.3	•	•
6	3.7	4.9	5.3	2.9	1.5	•
8	6.7	8.7	9.5	5.1	2.7	1.3
10	10.5	13.6	14.8	8	4.1	2
12	15.1	19.6	21.3	11.6	5.9	2.9
14						
16	26.8	34.8	37.9	20.5	10.4	5.2
18	33.9	44	47.9	25.9	12.8	6.7
LARGER	• •	• •	• •	• •	• •	• •
BEARING AREA OF THRUST BLOCKS (sq. ft.)						

1. ALL VALUES ARE BASED ON THE FOLLOWING ASSUMPTIONS: AVG. PRESSURE = 100 PSI X 2 (safety factor); 1500 PSF SOIL BEARING CAPACITY; NORMAL DISTRIBUTION DESIGN VELOCITY NOT TO EXCEED 5 F/S.
2. ALL FITTINGS SHALL BE WRAPPED IN PLASTIC PRIOR TO PLACEMENT OF CONCRETE.
3. BEARING SURFACE OF THRUST BLOCKING SHALL BE AGAINST UNDISTURBED SOIL
4. ALL CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 PSI.
5. ALL PIPE ZONES SHALL BE GRAVEL FILLED AND COMPACTED.
6. THRUST BLOCKS FOR PLUGGED CROSS AND PLUGGED TEE SHALL HAVE #4 REBAR LIFTING LOOPS INSTALLED AS SHOWN.
7. VERTICAL THRUST DETAILS–SEE DWG. WL-407.
8. STRADDLE BLOCK DETAILS–SEE DWG. WL-408.

* BLOCK TO UNDISTURBED TRENCH WALLS

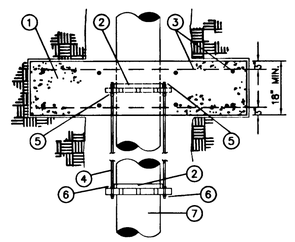
** THRUST BLOCKS FOR PIPES LARGER THAN 18" WILL BE INDIVIDUALLY DESIGNED BY THE ENGINEER.



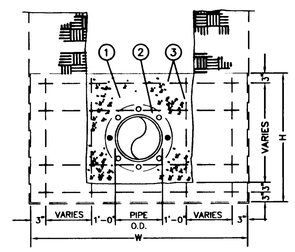
Horizontal Thrust Blocking

West Linn

DATE: JAN 2000
DRAWING NO. WL-406
FILE NO. 00-406



TOP VIEW



FRONT VIEW

MATERIALS:
1. CONCRETE STRADDLE BLOCK.
2. UNI-FLANGE, SERIES 400C, CLASS 125
3. #4 REBAR EACH WAY, 12" O/C.
4. 3/4" ALL THREAD GALVANIZED STEEL TIE RODS, QUANTITY PER ENGINEER.
5. 3/4" GALVANIZED NUTS, 2-EACH SIDE
6. 3/4" GALVANIZED NUTS, 1-EACH SIDE
7. FLANGED FITTING

NOTES:
1. STRADDLE BLOCKS SHALL BE DESIGNED INDIVIDUALLY BY THE ENGINEER AND SHALL BE BASED ON THE FOLLOWING:
   a.) 200 PSI WATER PRESSURE
   b.) SOIL BRG. CAPACITY, STEEL SIZE AND SPACING BY THE ENGINEER.
2. BEARING AREA OF BLOCK SHALL BE AGAINST UNDISTURBED SOIL.
3. STRADDLE BLOCK SHALL HAVE A MINIMUM OF 18" COVER.
4. CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 3300 PSI
5. ALL FITTINGS WITHIN THE CONC. SHALL BE WRAPPED IN PLASTIC OR BE COATED W/ KOPPER'S #50.
6. STRADDLE BLOCK HEIGHT(H) & WIDTH(W) SHALL BE DETERMINED BY THE ENGINEER.

Standard Straddle Block

West Linn

DATE: JAN 2000
DRAWING NO. WL-408
FILE NO. 00-408

1/30/01
Date
M.F.K.
Designed
R.K.
Drawn
Checked By Date

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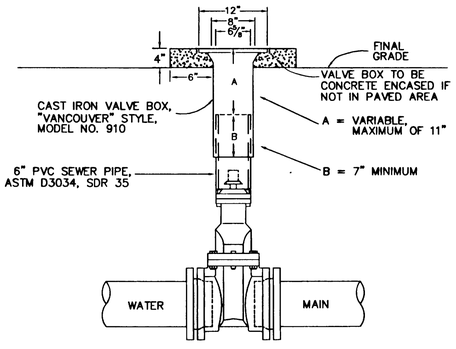
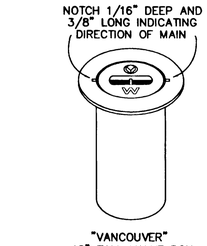




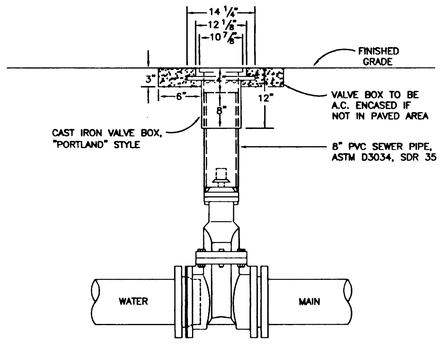
"VANCOUVER" 18" TALL VALVE BOX

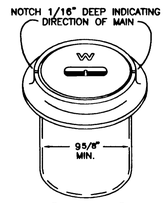
NOTES:
1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. PVC SHALL BE ONE CONTINUOUS PIECE– NO BELLS OR COUPLERS.
4. ON VALVES 8" AND LARGER, PVC SHALL BE NOTCHED OVER VALVE PACKING BOLTS SO PVC SITS ON BONNET.

Standard Valve Box Detail

West Linn

DATE: JAN 2000
DRAWING NO. WL-411
FILE NO. 00-411





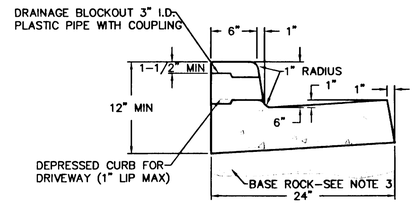
"PORTLAND" VALVE BOX

NOTES:
1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. PVC SHALL BE ONE CONTINUOUS PIECE– NO BELLS OR COUPLERS.

Standard Valve Box Detail for 4" or Larger Blow-offs

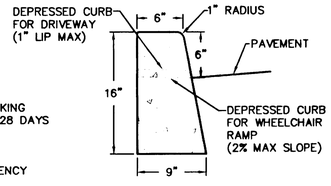
West Linn

DATE: JAN 2000
DRAWING NO. WL-412
FILE NO. 00-412



DEPRESSED CURB FOR WHEELCHAIR RAMP 2% MAX SLOPE

TYPICAL CURB & GUTTER



TYPICAL STRAIGHT CURB

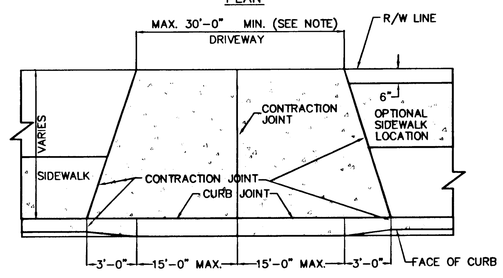
NOTES:
1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
2. CONTRACTION JOINTS
   A) TO BE PROVIDED
      –AT EACH POINT OF TANGENCY
      –AT EACH COLD JOINT
      –AT EACH SIDE OF INLET STRUCTURES
      –AT BOTH SIDES OF AN APPROACH
   B) SPACING TO BE NOT MORE THAN 15 FEET
   C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
   D) EXPANSION JOINTS SHALL NOT BE USED
3. BASE ROCK – 1-1/2"-0", 95% COMPACTION ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
4. DRAINAGE BLOCK – 3" DIA. PLASTIC PIPE
   A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
      –CORE DRILLING
      –VERTICAL SAWCUT OF CURB 18" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH OF CURB
5. STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

Typical Curbs

West Linn

DATE: JAN 2000
DRAWING NO. WL-501
FILE NO. 00-501

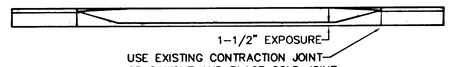
PLAN



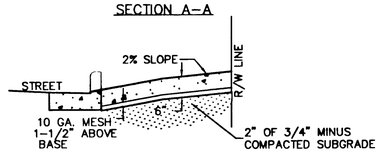
SIDEWALK ADJACENT TO CURB — SIDEWALK AWAY FROM CURB

NOTE: ONE-WAY TRAFFIC – MIN. 15' DRIVEWAY
TWO-WAY TRAFFIC – MIN. 24' DRIVEWAY

ELEVATION



SECTION A–A



NOTES
1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS, 6 SACK MIX.
2. CURB JOINT SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS ALONG BACK OF CURB.
3. DRIVEWAY SHALL BE A MINIMUM 6" THICK.

Commercial Driveway

West Linn

DATE: JAN 2000
DRAWING NO. WL-504
FILE NO. 00-504

ROSEMONT SUMMIT II SUBDIVISION
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CITY OF WEST LINN, OREGON
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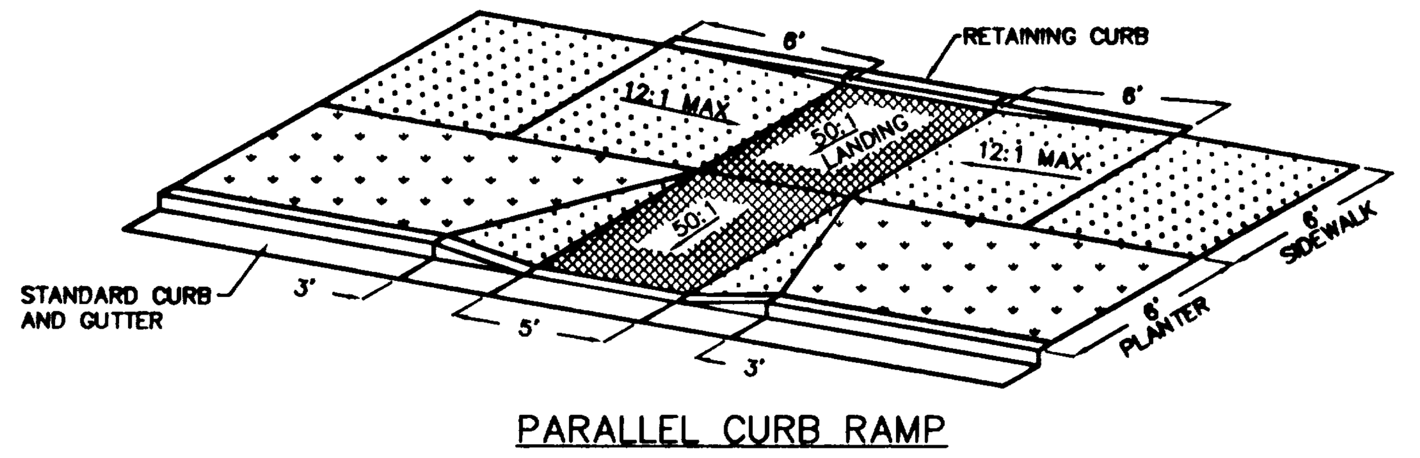
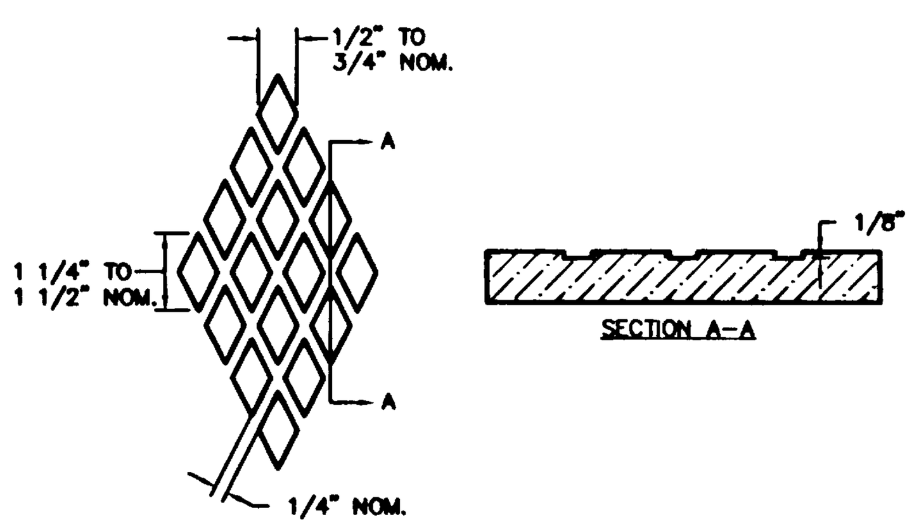


PARALLEL CURB RAMP

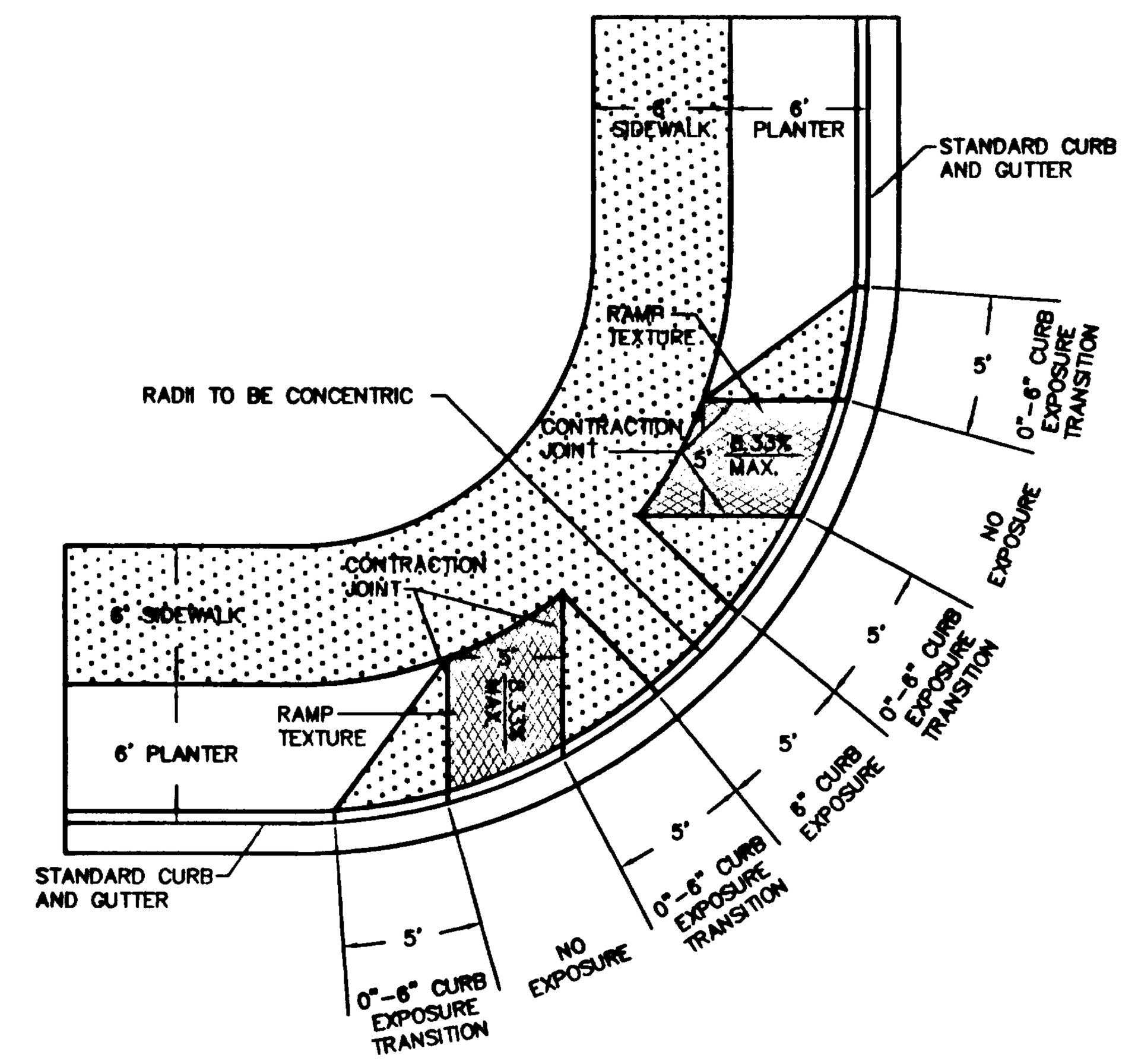


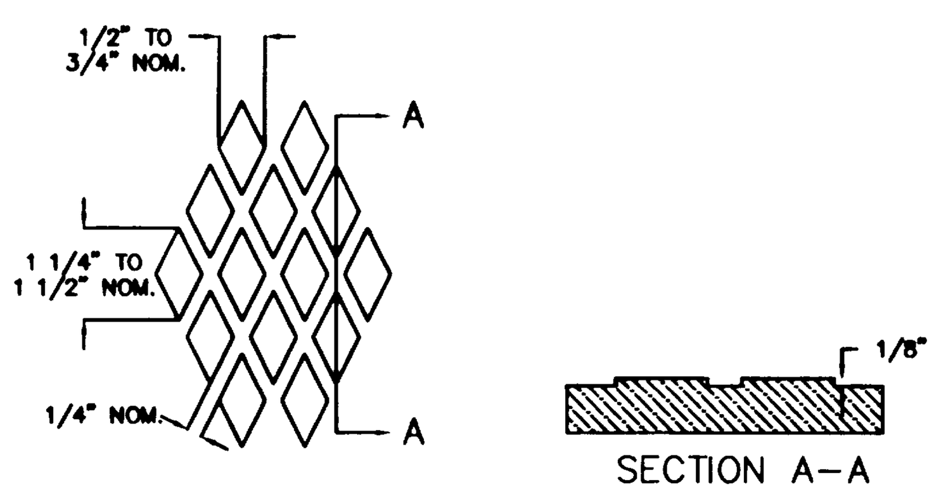
RAMP TEXTURE DETAIL

NOTES:
1. THE AMERICANS WITH DISABILITIES ACT" (ADA) REQUIRES THAT ACCESS RAMPS TO SIDEWALKS CONFORM TO ALL FEDERAL GUIDELINES. EXCEPTIONS TO THE REQUIREMENTS IN THIS DRAWING MUST BE APPROVED BY THE CITY ENGINEER AND MUST COMPLY WITH ADA.
2. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.
3. LANDINGS SHALL BE PLACED AT THE TOP OF EACH RAMP. LANDING SLOPES SHALL NOT EXCEED 50:1 IN ANY DIRECTION. THE SLOPE OF THE SURFACING AT THE BOTTOM OF THE RAMP SHALL NOT EXCEED 20:1 FOR A DISTANCE OF 2' (SEE TYPICAL SECTION ABOVE).
4. MINIMUM LANDING DIMENSIONS SHALL BE 4' X 4'.
5. RAMP SURFACE SHALL BE TEXTURED WITH RAISED DIAMOND TEXTURE. TEXTURING SHALL BE DONE WITH AN EXPANDED METAL GRATE STAMPED INTO THE CONCRETE.
6. CONCRETE STRENGTH SHALL BE 3300 PSI.

Parallel Curb Ramp

West Linn — DATE: JAN 2000 — DRAWING NO. WL–506 — FILE NO. 00–506



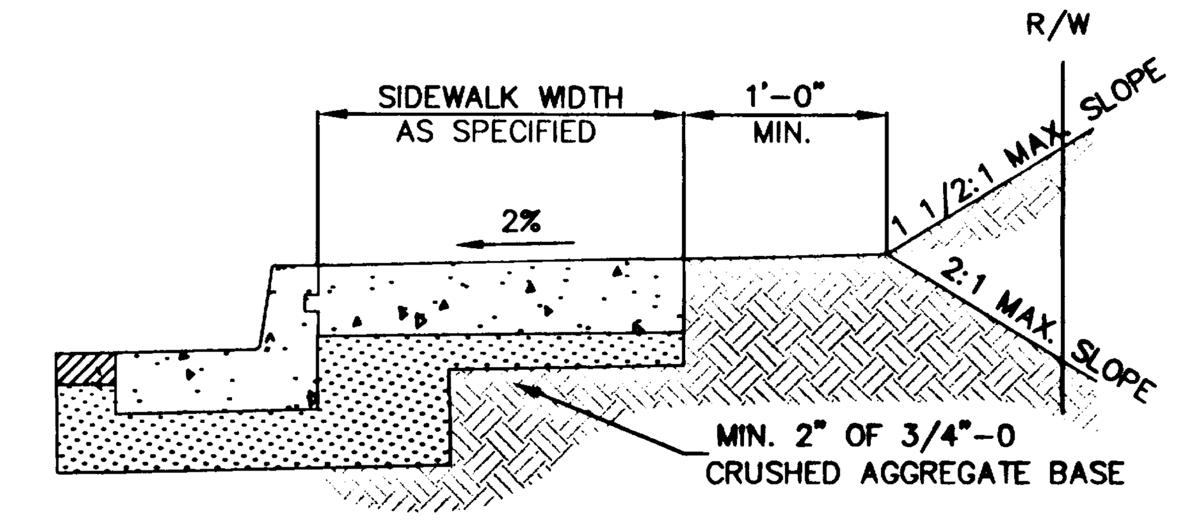


RAMP TEXTURE DETAIL

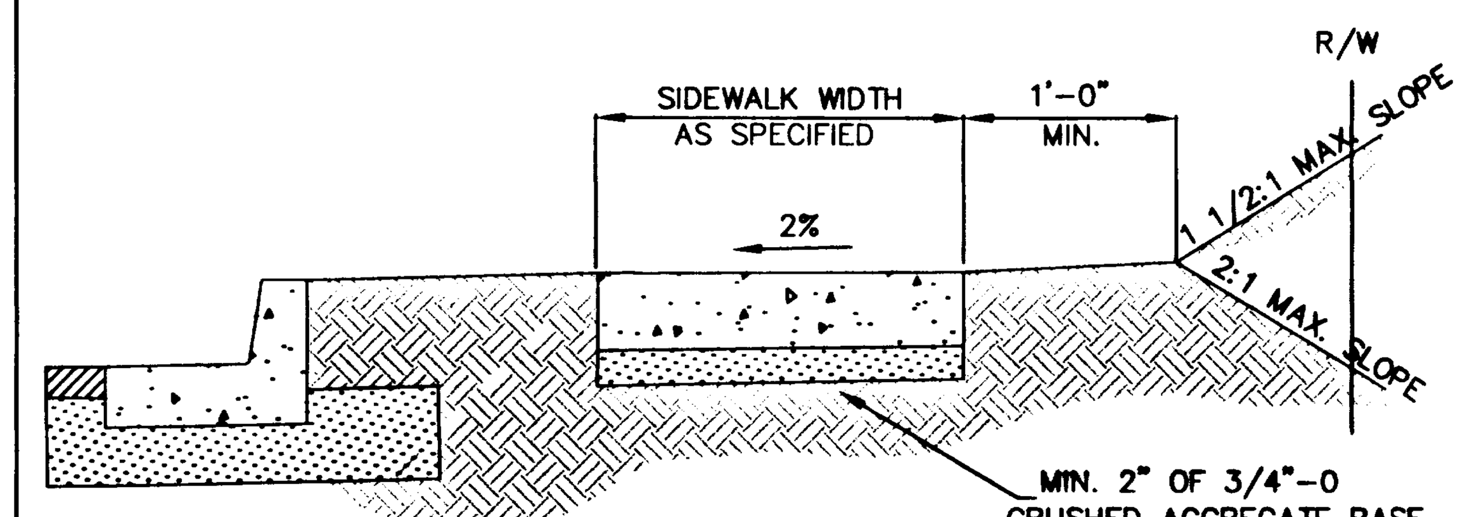
NOTES:
1. THE "AMERICANS WITH DISABILITIES ACT" (ADA) REQUIRES THAT ACCESS RAMPS TO SIDEWALKS CONFORM TO ALL FEDERAL GUIDELINES. EXCEPTIONS TO THE REQUIREMENTS IN THIS DRAWING MUST BE APPROVED BY THE CITY ENGINEER.
2. NO ABOVE GROUND UTILITIES ADRE PERMITTED WITHIN RAMP AREA.
3. RAMP SURFACE SHALL BE TEXTURED WITH RAISED DIAMOND TEXTURE. TEXTURING SHALL BE DONE WITH AN EXPANDED METAL GRATE STAMPED INTO THE CONCRETE.
4. CONCRETE STRENGTH SHALL BE 3300 PSI.
5. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
6. FOR INTERSECTING LOCAL STREETS USE DETAIL WL–507A.

Twin Curb Ramp

West Linn — DATE: JAN 2000 — DRAWING NO. WL–507B — FILE NO. 00–507B



TYPICAL SIDEWALK ABUTTING CURB



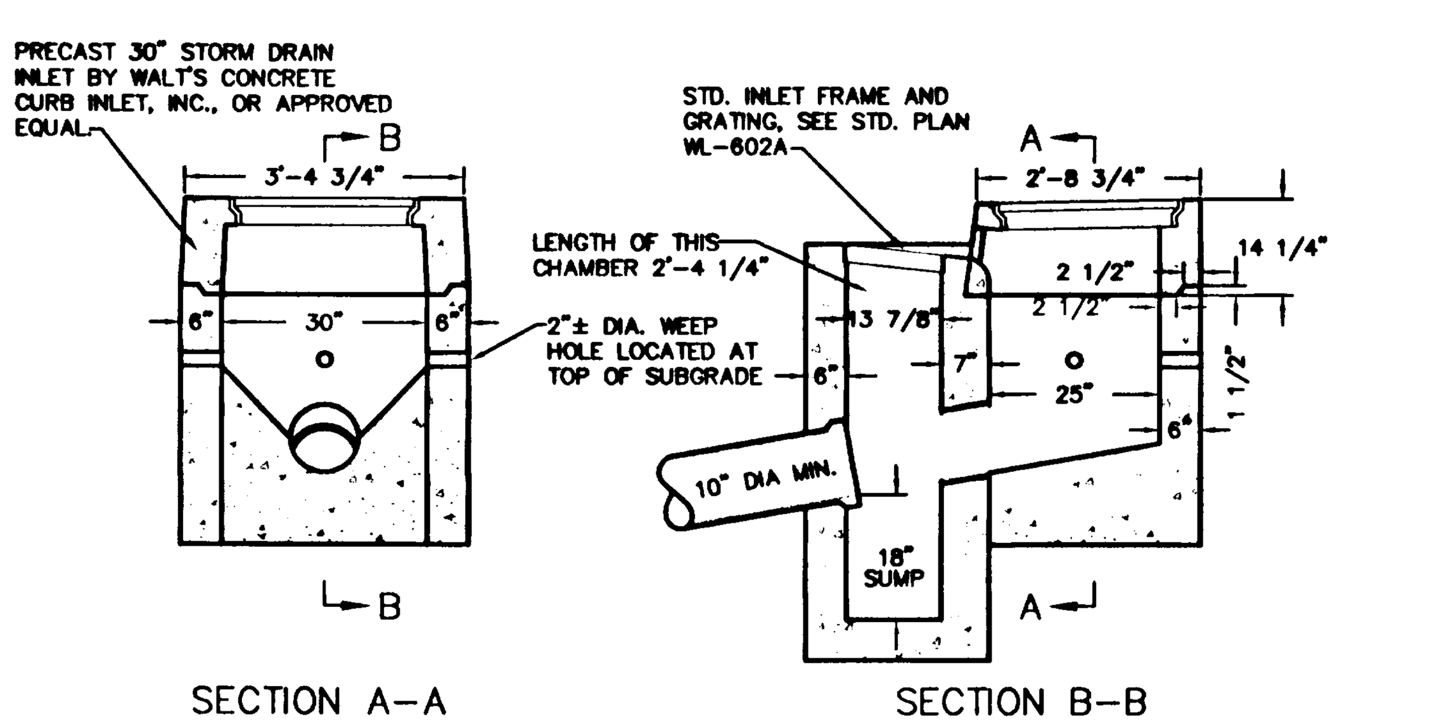
SIDEWALK AWAY FROM CURB

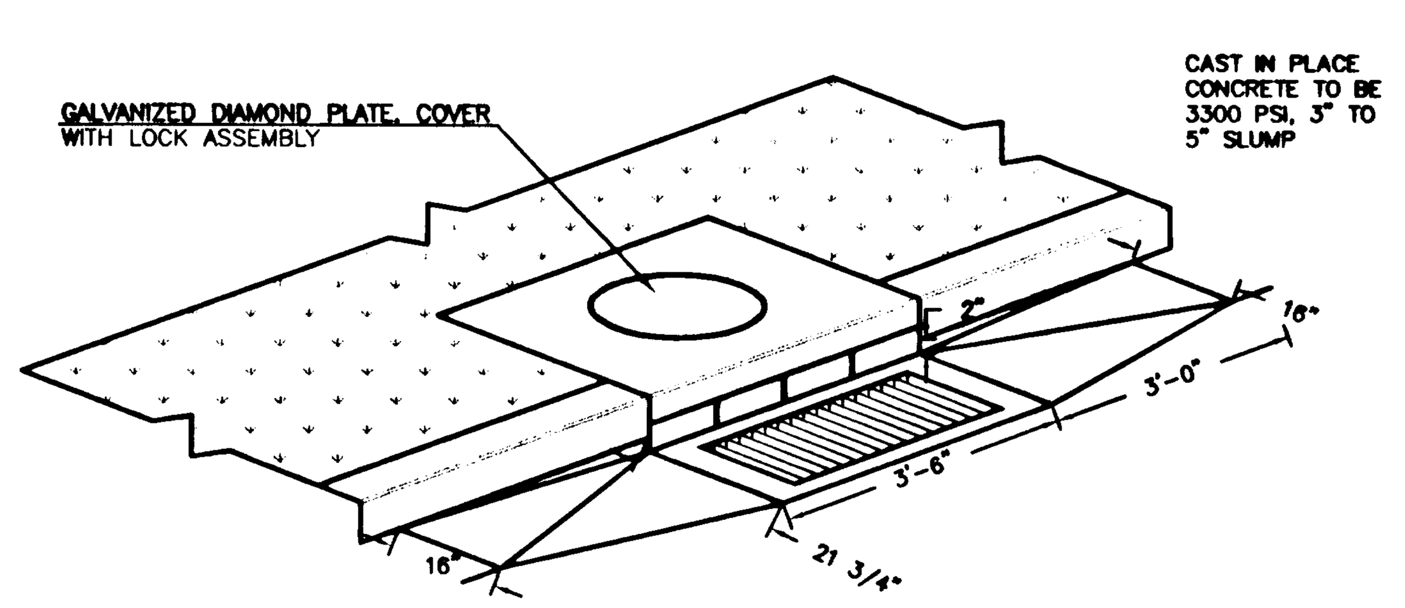
NOTES
1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS, 6 SACK MIX, SLUMP RANGE OF 1 1/2" TO 3".
2. PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
3. CONTRACTION JOINTS (1/3RD OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 18 FEET.
JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
4. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.
6. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF MOUNTABLE CURB IS USED OR IF THE SIDEWALK IS INTENDED AS A PORTION OF THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
7. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIA. PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE.

Concrete Sidewalk Cross Section

West Linn — DATE: JAN 2000 — DRAWING NO. WL–508 — FILE NO. 00–508

MANHOLE RIMS AND COVERS AS MANUFACTURED BY HERN IRON WORKS, COEUR D' ALENE, IDAHO. COVER PATTERN NO. 2312, RIM PATTERN NO. 2311 OR APPROVED EQUAL.

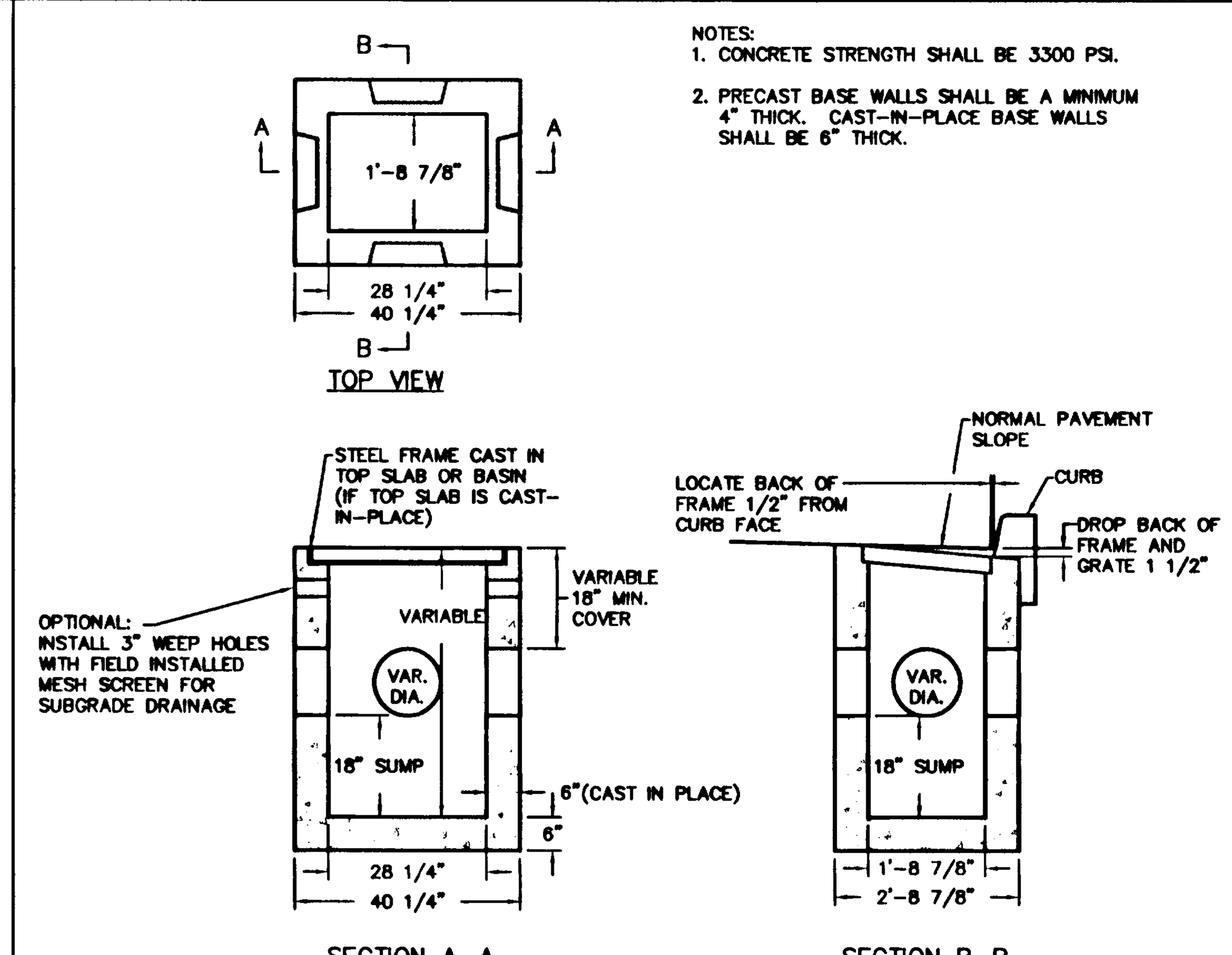


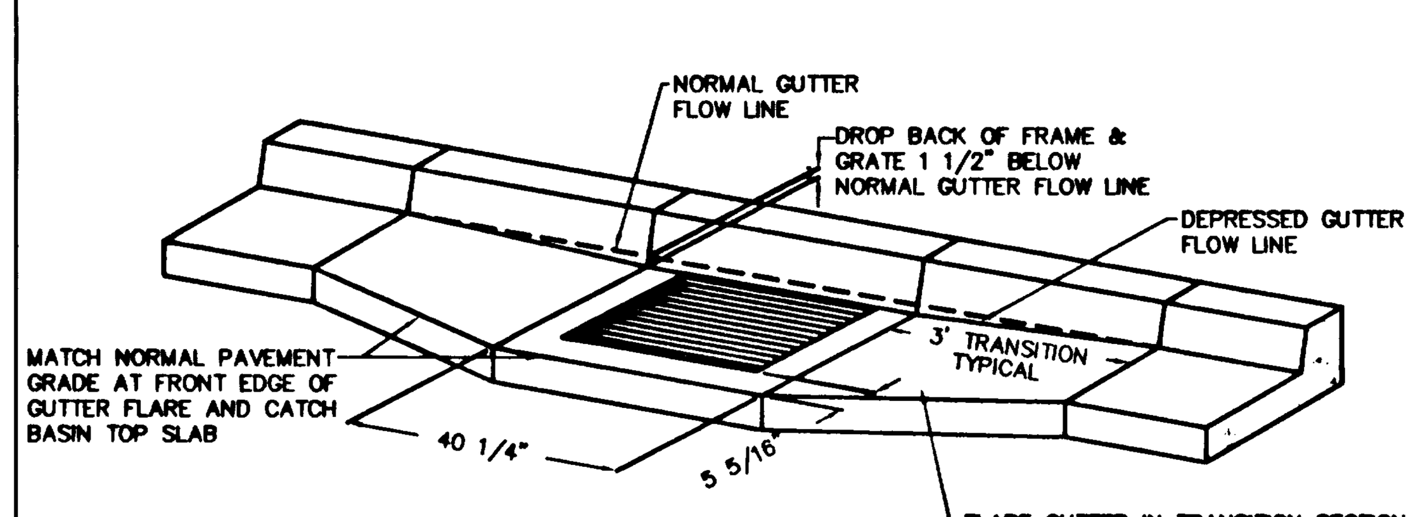


Combination Curb Inlet

West Linn — DATE: JAN 2000 — DRAWING NO. WL–601 — FILE NO. 00–601

NOTES:
1. CONCRETE STRENGTH SHALL BE 3300 PSI.
2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST–IN–PLACE BASE WALLS SHALL BE 6" THICK.

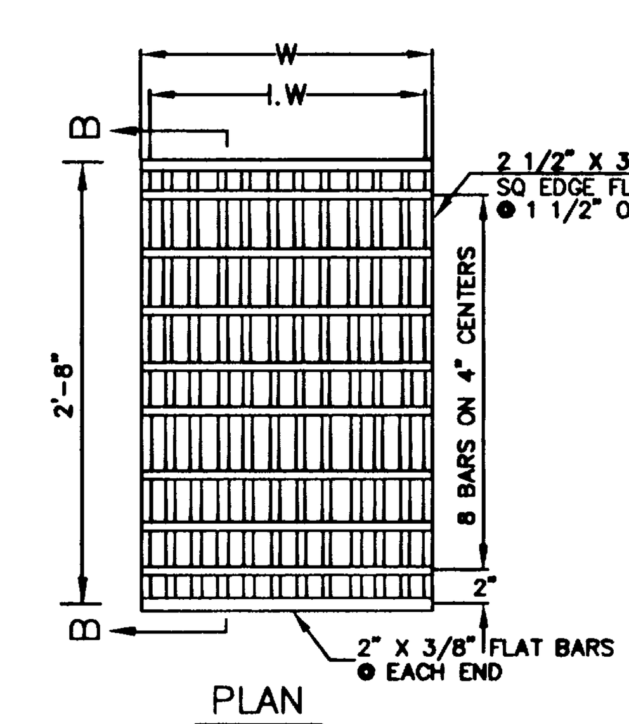


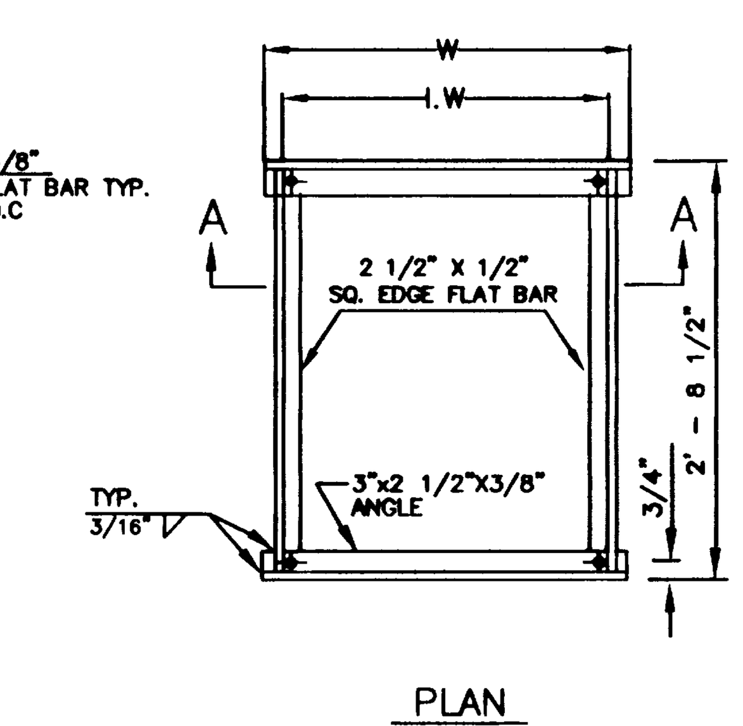


NOTE:
PRECAST TOP SLAB SHOWN WITH GUTTER TRANSITION FLARE IF THE TOP SLAB IS CAST–IN–PLACE, NO FLARE IS REQUIRED IN THE TRANSITION SECTION: MATCH THE TOP FRONT EDGE OF THE FRAME AND THE TOP FRONT EDGE OF THE CAST–IN–PLACE TOP SLAB TO THE NORMAL PAVEMENT GRADE.

Type G–1 Catch Basin with Sump

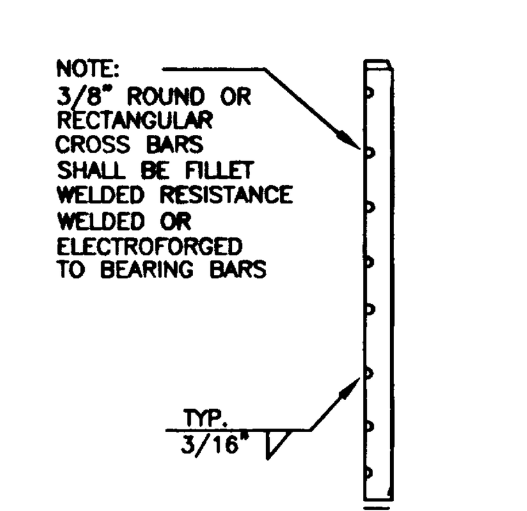
West Linn — DATE: JAN 2000 — DRAWING NO. WL–602 — FILE NO. 00–602



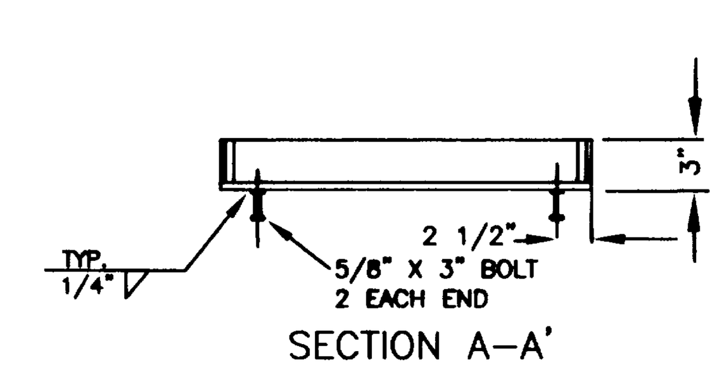


TYPE	W	I.W
STANDARD	1'–9"	1'–8 1/4"

TYPE	DIA. PIPE	W	I.W
STANDARD	10"–12"	1'–10 3/4"	1'–9 3/8"



SECTION B–B



SECTION A–A'

NOTE:
USE VERTICAL BEADS IN CORNERS, FILLET WELD JOINT ON BOTOM OF FRAME. GRATE MUST REST FLAT ON FRAME SURFACE.

Frame & Grate for Gutter & Curb Inlets

West Linn — DATE: JAN 2000 — DRAWING NO. WL–602A — FILE NO. 00–602A

Date: 1/30/01
Designed: MFK
Drawn: RK / WJK
Checked By Date

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CITY OF WEST LINN, OREGON
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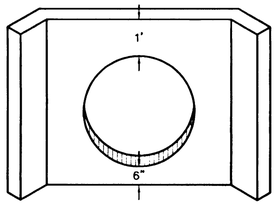
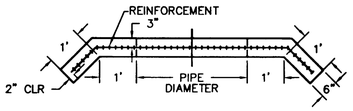
Project No. L9754
File No. D754s12B
Sheet No. S12B

AS–BUILT DRAWINGS OCTOBER 26, 2001





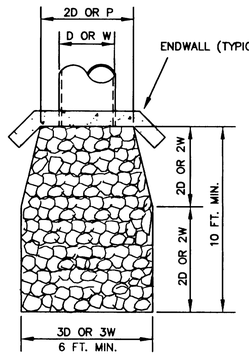
NOTES:
1. USE CONCRETE HAVING A 28 DAY DESIGN STRENGTH OF 3300 PSI.
2. OUTLET WING WALL SHALL BE USED FOR ALL OUTFALL PIPES FROM 10" TO 36".
3. THIS DETAIL REPRESENTS THE MINIMUM REQUIREMENT. THE NEED FOR ADDITIONAL STEEL, A FOOTING AND DRAINAGE BEHIND THE WALL SHALL BE INVESTIGATED BY THE DESIGN ENGINEER.
4. FOR PIPES LARGER THAN 33" OR MULTIPLE PIPE OUTLETS, USE DETAIL WL-612.
5. CONCRETE REINFORCEMENT SHALL CONSIST OF:
   A) ADDING A POLY-FIBER MESH TO THE CONCRETE MIX OR
   B) USE (2) #4 BARS ABOVE AND BELOW PIPE AND #4 BARS AT 6" O.C. VERTICALLY.

Outlet Headwall
(For Outlet Pipes of 10" to 33")

West Linn

DATE:	JAN 2000
DRAWING NO.	WL-613
FILE NO.	00-613

D = PIPE DIAMETER
W = BOTTOM WIDTH OF CHANNEL
P = WETTED PERIMETER OF CHANNEL



DESIGN VELOCITY FT./SEC	ROCK CLASSIFICATION BY WEIGHT
6 - 10	200 LBS.
10 - 12	1/4 TON
12 - 14	1/2 TON
14 - 16	1 TON
16 - 18	2 TON

SELECTION OF RIP RAP
(SEE NOTE 1)

NOTES:
1. DIMENSIONS FOR RIP RAP APPLY TO FLOWS < 2 CFS RIP RAP FOR FLOWS > 2 CFS MUST BE DESIGNED BY AN ENGINEER FLOWS > 20 FPS SHALL USE ENERGY DISSIPATOR
2. TYPE OF RIP RAP
   A. REGULAR QUARRY STONE CLASS 50-200
   B. COBBLESTONE
   C. CONCRETE (ONLY ALLOWED UPON APPROVAL OF THE DISTRICT)
3. PLACEMENT
   A. MINIMUM DEPTH = 1 1/2 TIMES AVERAGE STONE SIZE
   B. ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.
   C. SURFACE ROCKS OR CONCRETE SHALL PROTRUDE AT LEAST 1/2 THEIR VERTICAL DIMENSION.
   D. RIP RAP IS TO BE PLACED OVER A NATURAL BEDDING, OR IT MAY BE GROUTED OR PLACED OVER A GRAVEL BEDDING AS REQUIRED BY THE CITY.

Storm Sewer Outfall

West Linn

DATE:	JAN 2000
DRAWING NO.	WL-614
FILE NO.	00-614

1/30/01
Date
MFK
Designed
RK / WJK
Drawn
Checked By Date

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D754s13B
File No.
S13B
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AS-BUILT DRAWINGS OCTOBER 26, 2001