Approved + Stamped Plans

The Summerlinn Center

West Linn, Oregon

GENERAL NOTES:

1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN SPECIFICATIONS, THE APWA (OREGON CHAPTER) STANDARD SPECIFICATION AND DRAWINGS (1990), THE STATE OF OREGON PLUMBING CODE, THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY, THE OREGON DEPARTMENT OF HUMAN RESOURCES, AND AS APPROVED AND NOTED ON THESE DRAWINGS.
2. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
3. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR, ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
5. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER AS SOON AS THEY BECOME APPARENT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ALL DAMAGE OR DESTRUCTION OF PROPERTY MONUMENTATION OR CONSTRUCTION STAKES.
7. THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR CONTRACTOR TO PERFORM HIS WORK.

STREET CONSTRUCTION AND PAVING:

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, ROOTS, BRUSH, AND OTHER ORGANIC MATERIAL IN THE WORK AREA AND WHERE INDICATED ON THE PLANS. THESE MATERIALS SHALL BE DISPOSED OF, OFF SITE, IN SUCH A MANNER AS TO MEET WITH LOCAL REGULATIONS.
2. CONTRACTOR SHALL PROVIDE THE NECESSARY EROSION PROTECTION, TO INCLUDE GRADING, DITCHING, HAY BALES, AND SILT FENCING TO MINIMIZE EROSION AND ADJACENT PROPERTY.
3. THE STREET SECTION SHALL BE GRADED TO THE ELEVATIONS SHOWN ON THE DRAWINGS WITH THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE FINISHED PAVEMENT AS SPECIFIED.
4. MATERIAL IN SOFT SORTS WITHIN THE PAVED AREAS SHALL BE REMOVED TO A DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH PIT RUN CRUSHED ROCK. THE SUBGRADE SHALL BE "PROOF ROLLED", WITNESSED BY THE ENGINEER AND/OR THE CITY PRIOR TO PLACEMENT OF BASE ROCK. ADDITIONALLY, COMPACTION TESTING IS REQUIRED FOR THE FINISHED BASE ROCK. THE CONTRACTOR TO PROVIDE AND SHALL BE RESPONSIBLE FOR SUPPLYING THE RESULTS OF A MINIMUM TWO TESTS TO THE ENGINEER PRIOR TO PAVING. COMPACTION TO BE 95% OF MODIFIED PROCTOR DENSITY (T-180).
5. CONTRACTOR TO NOTIFY CITY OF WEST LINN, AND THE ENGINEER, 24-HOURS PRIOR TO STARTING CONSTRUCTION ON WORK TO BE ACCEPTED BY THE CITY.
6. ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A MIX FORMULA APPROVED THE OREGON STATE HIGHWAY FOR MATERIALS USED. CONTRACTOR TO PROVIDE DENSITY TESTING RESULTS FOR ASPHALTIC CONCRETE PLACED IN PUBLIC STREETS. 7. CONCRETE SHALL BE MIXED BASED ON A FORMULA WHICH WILL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28-DAYS.

STORM SEWER:

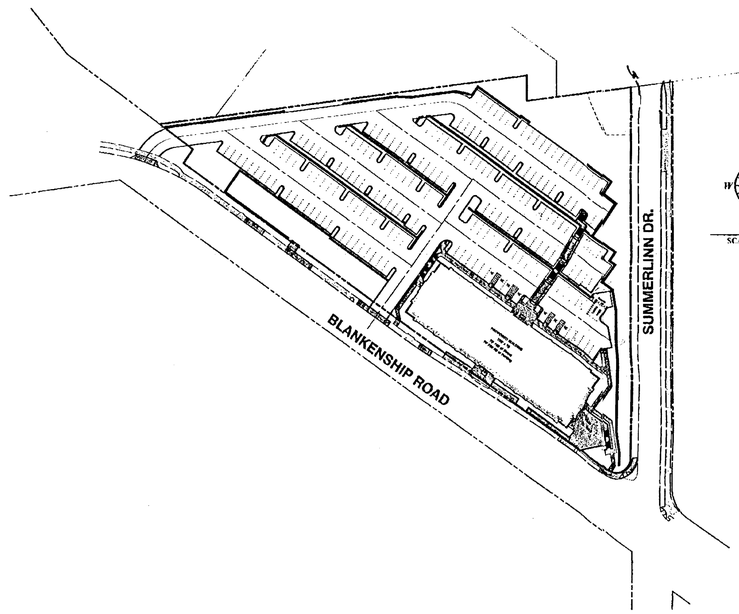
1. MATERIALS USED FOR PUBLIC IMPROVEMENTS TO MEET THE REQUIREMENTS OF THE CITY OF WEST LINN.
2. ALL WORK & MATERIALS FOR PRIVATE STORM DRAINS TO MEET REQUIREMENTS OF THE STATE OF OREGON PLUMBING CODE.
3. MATERIALS:
   - CONCRETE CULVERT PIPE (CCP) SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-14, CLASS 3, NON-REINFORCED CONCRETE PIPE (10-INCHES OR GREATER)
   - CHLORIDE PIPE (PVC) SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 3034 SDR 35 (10 INCHES OR LESS)
   - HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL HAVE A CORRUGATED EXTERIOR & SMOOTH INTERIOR WITH A MANNINGS EQUALS OR BETTER THAN CONCRETE PIPE, MEETING REQUIREMENTS OF AASHTO M-294 (12-INCHES OR GREATER).
   - DUCTILE IRON PIPE (DI) SHALL BE CLASS 52, PUSH-ON JOINT PIPE MEETING STANDARDS ASA STANDARD A-21.4.
   - PIPE BEDDING AND TRENCH BACKFILL WITHIN PAVED AREAS TO BE 3/4"-0" CRUSHED ROCK. PIPE BEDDING TO EXTEND A MINIMUM OF 8-INCHES IN ALL DIRECTIONS FROM THE OUTSIDE OF THE PIPE.
   - ALL MANHOLES OUTSIDE THE STREET RIGHT-OF-WAY SHALL HAVE TAMPER PROOF LIDS.
   - ALL PUBLIC STORM SHALL BE CLEANED, TV INSPECTED AND FLEXIBLE PIPE MANDRELLED.

SANITARY SEWER:

1. ALL WORK AND MATERIALS TO CONFORM WITH THE CITY OF WEST LINN STANDARDS (1990, APWA, OREGON CHAPTER, STANDARD SPECIFICATIONS AND DRAWINGS), FOR ALL PUBLIC SANITARY SEWER LINES.
2. ALL PRIVATE SERVICE CONNECTIONS SHALL BE A MINIMUM OF 4-INCH PVC AND INSTALLED AT A MINIMUM GRADE OF 2% UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO "POT HOLE" EXISTING SEWER AT CONNECTION POINT PRIOR TO ACTUAL CONSTRUCTION TO VERIFY INVERT ELEVATION.
4. ALL PVC SANITARY SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR 35, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PVC SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDED INSTALLATION PROCEDURES. PVC SEWER PIPE SHALL BE CONNECTED TO CONCRETE MANHOLES BY MEANS OF AN APPROVED COUPLING WITH AN ELASTOMERIC GASKET, AN APPROVED WATERSTOP OR FLEXIBLE SLEEVE. IN ADDITION TO HYDROSTATIC OR AIR TESTING, SANITARY SEWER CONSTRUCTED OF PVC SEWER PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED MANDREL (95% OF INSIDE DIAMETER) THROUGH THE COMPLETED PIPE LINE.
5. CONTRACTOR SHALL CONDUCT A TV ACCEPTANCE INSPECTION UPON COMPLETION OF ALL SEWER CONSTRUCTION.
6. PIPE BEDDING AND BACKFILL SHALL CONFORM TO THE APWA STANDARD DETAILS AND AS NOTED ON THE PLANS.
7. TRENCHES WITHIN THE ROADWAY OF DRIVEWAYS SHALL BE BACKFILLED WITH GRANULAR MATERIALS. COMPACTION SHALL BE SUFFICIENT TO PREVENT SETTLEMENT. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT, METHOD AND EFFORT REQUIRED TO ACHIEVE REQUIRED COMPACTION. SUBSEQUENT SETTLEMENT OF THE FINISH SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
8. ALL MANHOLES OUTSIDE THE STREET RIGHT-OF-WAY SHALL HAVE TAMPER PROOF LIDS.
9. CONTRACTOR SHALL MAINTAIN AS-CONSTRUCTED DATA INCLUDING STATION, LENGTH, AND DEPTH OF SERVICE CONNECTION, AND ANY CHANGES MADE DURING CONSTRUCTION.
10. ALL MANHOLES SHALL BE VACUUM TESTED.

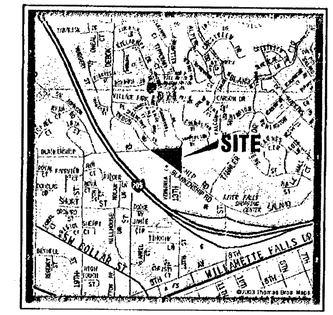
WATER SYSTEM:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF WEST LINN STANDARDS AND SPECIFICATIONS, THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES CHAPTER 33 AND AWWA STANDARDS.
2. ALL PIPE TO HAVE A MINIMUM COVER OF 36-INCHES BELOW THE FUTURE FINISH GRADES.
3. DUCTILE IRON PIPE TO BE TYTON JOINT CEMENT MORTAR LINES, CLASS 52, AND SHALL CONFORM TO ASTM C-110, C-150, AND C-151.
4. GATE VALVES TO BE DOUBLE DISK TYPE CONFORMING TO AWWA C-500, WITH RESILIENT SEATS PER AWWA C-509-80. VALVE BOXES TO BE CASE IRON, RICH MODEL 925 OR EQUAL.
5. WATER SERVICES SHALL BE COPPER TUBING TYPE "K" 1-INCH DIAMETER FOR ALL SERVICES.
6. COPPER TUBING SHALL BE TYPE SOFT FOR 1-INCH OR LESS SERVICES.
7. THRUST BLOCKING: ALL TEES, PLUGS, CAPS BENDS, AND AT ALL OTHER LOCATIONS WHERE UNBALANCED FORCE EXIST SHALL REQUIRE SUITABLE THRUST BLOCKING. CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH AND SHALL HAVE A STRENGTH AT 28-DAYS OF 3000PSI.
8. HYDROSTATIC TESTS: THE TEST PRESSURE SHALL BE 150PSI AT THE LOWEST POINT IN ANY SECTION. THE DURATION SHALL BE 30-MINUTES AND SHALL BE MONITORED BY THE ENGINEER OR THE CITY OF WEST LINN.
9. STERILIZATION: PIPELINES INTENDED TO CARRY POTABLE WATER SHALL BE FLUSHED AND STERILIZED BEFORE PLACING INTO SERVICE. STERILIZING PROCEDURE SHALL CONFORM TO AWWA C-601 OR AS MODIFIED OR EXPENDED BY GOVERNING AGENCY HAVING JURISDICTION.
10. DISPOSAL OF THE STERILIZATION WATER SHALL BE DONE IN SUCH A WAY AS TO NOT CAUSE DAMAGE OR INJURY.
11. FIRE HYDRANTS & BLOWOFFS SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE PLANS CORNFORMING TO CITY CONSTRUCTION STANDARDS AND DRAWINGS NO. WL-401 AND WL-404.B.



PLAN
SCALE: 1" = 80'

BENCHMARK:
Basis of elevation is GPS Datum Transfer from "Term" N.G.S. GPS Station located in Oregon City. Elevation = 37.95 (NGVG 29)



VICINITY MAP
SCALE: N.T.S

LEGEND

EXISTING FOUND MONUMENT	EXISTING RIGHT-OF-WAY
EXISTING CONIFEROUS TREE	EXISTING PROPERTY LINE
EXISTING DECIDUOUS TREE	EXISTING CENTERLINE
EXISTING UTILITY POLE	EXISTING CURB
EXISTING YARD LIGHT	EXISTING EDGE OF PAVEMENT
EXISTING POWER VAULT	EXISTING FENCE LINE
EXISTING POWER METER	EXISTING GRAVEL EDGE
EXISTING TELEPHONE RISER	EXISTING POWER LINE
EXISTING GAS VALVE	EXISTING GAS LINE
EXISTING GAS METER	EXISTING STORM SEWER LINE
EXISTING MAILBOX	EXISTING SANITARY SEWER LINE
EXISTING TRAFFIC SIGN	EXISTING WATER LINE
EXISTING STORM MANHOLE	PROPERTY BOUNDARY
EXISTING CATCH BASIN	EXISTING SIDEWALK
EXISTING SANITARY MANHOLE	NEW CONCRETE SIDEWALKS
EXISTING CLEANOUT	
EXISTING FIRE HYDRANT	
EXISTING BLOW OFF VALVE	
EXISTING WATER VALVE	
EXISTING WATER METER	

SHEET INDEX

1 Cover
2 Site Plan
3 Street and Site Profiles 1
4 Street and Site Profiles 2
5 Storm Drainage Plan
6 Storm Drainage Profiles 1
7 Storm Drainage Profiles 2
8 Sanitary and Water Plan
9 Grading and Erosion Control Plan
D1 Standard Details

SEEDING/MULCHING

- ALL AREAS DISTURBED DURING CONSTRUCTION TO BE GRADED TO DRAIN AND COMPACTED TO A MINIMUM OF STANDARDS IMMEDIATELY AFTER INSTALLATION UTILITIES OR GRADING.
- RECOMMENDED SEED MIXTURE:

TYPE	PERCENT BY WEIGHT
ELKA DWARF PERENNIAL RYEGRASS	80
CREEPING RED FESCUE	20

APPLICATION RATE: 100 POUNDS MINIMUM PER ACRE ANNUAL RYEGRASS RECOMMENDED WHEN RAPID GERMINATION IS REQUIRED.

- FERTILIZER SHALL BE 12-16-8 WITH 50% OF THE NITROGEN DERIVED FROM UREA-FORMALDEHYDE, AND APPLIED AT A RATE OF 400 POUNDS PER ACRE.
- SEED AND MULCH AT A RATE OF 2000 LB/AC/WITH HEAVY BONDING AGENT OR NETTING AND ANCHORS. MULCH SHALL BE A WOOD CELLULOSE FIBER OR OTHER MATERIAL SUITABLE FOR HYDROMULCHING.
- TEMPORARY/PERMANENT HYDROSEEDING OR ACCEPTABLE SEEDING AND MULCHING MUST BE PROVIDED WHENEVER PERENNIAL COVER CANNOT BE ESTABLISHED ON SITES WHICH WILL BE EXPOSED FOR 60 DAYS OR MORE.

UTILITY CONTACTS:

Water:	City of West Linn
Power:	PGE, Service & Design 503-736-5450
Sewer:	City of West Linn
Phone:	Qwest Communications 503-242-2793
Cable:	Comcast 503-605-6147
Gas:	NW Natural 503-721-2449

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings.
DATE 9/29/2005 BY [signature]

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

REGISTERED PROFESSIONAL ENGINEER 7120 BRUCE D. GOLDSON July 18, 1971
EXPIRES: 06/30/2007
SIGNATURE DATE: 09/22/2005

PRINTED SEP 27 2005

Cover

DATE	NO.	REVISION
08/17/05	3	REVISED PER CITY OF WEST LINN REVIEW
06/29/05	2	REVISED PER NEW CONDITIONS OF APPROVAL
06/14/05	1	REVISED PER DEQ 1200C

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE 1" = 80' | DATE April, 2004
PLAN 04-5619-2794 | 5619 Civil

COMPASS ENGINEERING
ENGINEERING ★ SURVEYING ★ PLANNING
6564 S.E. LAKE ROAD, MILWAUKIE, OREGON 97222
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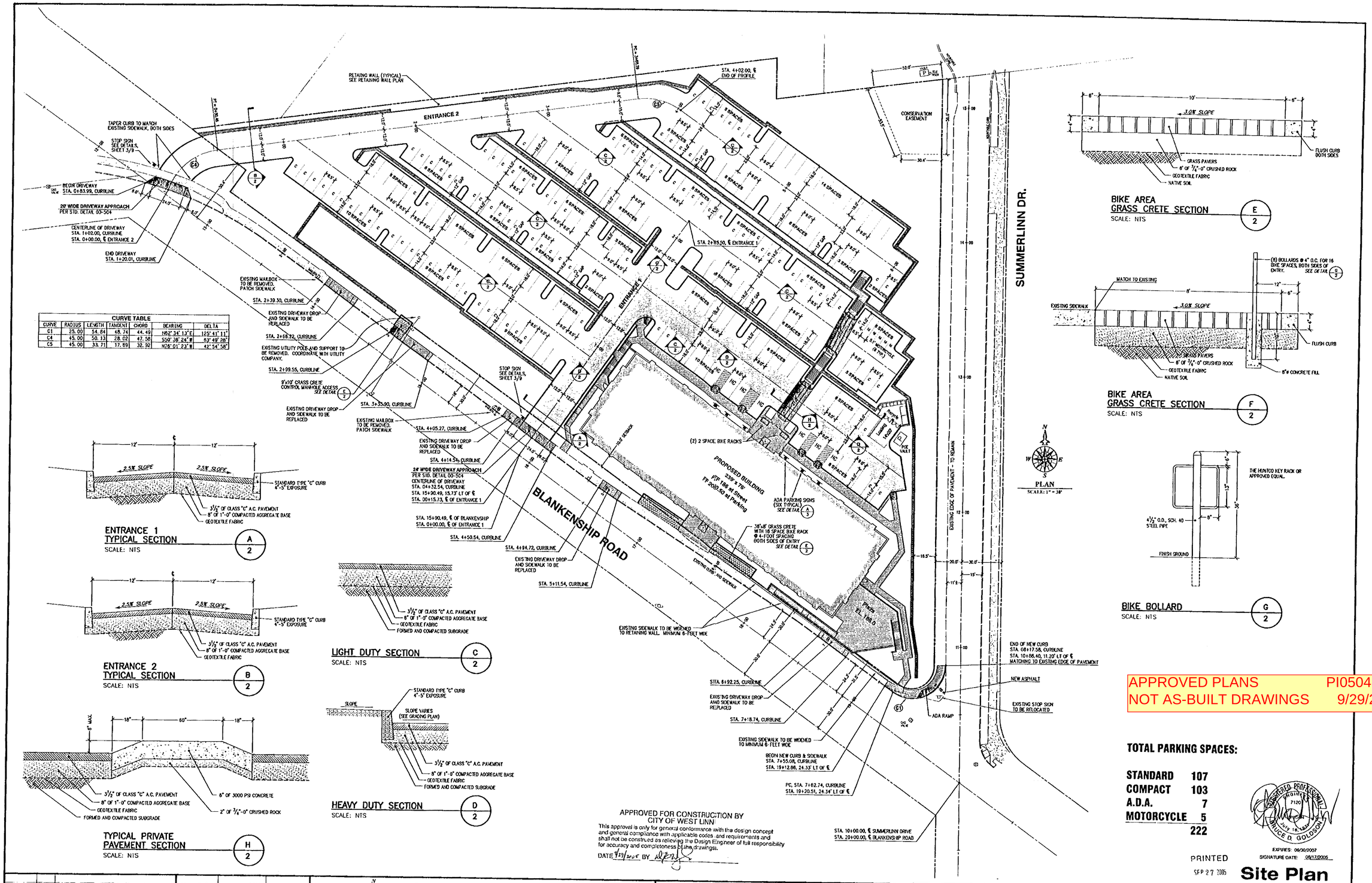
Black Hawk, LLC
2020-C SW 8th Street
West Linn, Oregon 97068
503-742-1942

The Summerlinn Center
TL 200, 1100, 1200, 1201, T.2S., R.1E., Sec. 35CB
West Linn, Oregon

1/9

9-29-0005


ENTRANCE 2
ENTRANCE 1
BLANKENSHIP ROAD
SUMMERLINN DR.
PROPOSED BUILDING
235' x 175'
FF 166 at Street
FF 200.50 at Parking
CONSERVATION EASEMENT
RETAINING WALL (TYPICAL) SEE RETAINING WALL PLAN
STA. 4+02.00, ℄ END OF PROFILE
TAPER CURB TO MATCH EXISTING SIDEWALK, BOTH SIDES
STOP SIGN SEE DETAILS, SHEET 3/9
BEGIN DRIVEWAY STA. 0+83.99, CURBLINE
20' WIDE DRIVEWAY APPROACH PER STD. DETAIL 00-504
CENTERLINE OF DRIVEWAY STA. 1+02.00, CURBLINE STA. 0+00.00, ℄ ENTRANCE 2
END DRIVEWAY STA. 1+20.01, CURBLINE
EXISTING MAILBOX TO BE REMOVED. PATCH SIDEWALK
STA. 2+39.30, CURBLINE
EXISTING DRIVEWAY DROP AND SIDEWALK TO BE REPLACED
STA. 2+68.72, CURBLINE
EXISTING UTILITY POLE AND SUPPORT TO BE REMOVED. COORDINATE WITH UTILITY COMPANY.
STA. 2+99.55, CURBLINE
9'x10' GRASS CRETE CONTROL MANHOLE ACCESS SEE DETAIL
STA. 3+35.90, CURBLINE
EXISTING DRIVEWAY DROP AND SIDEWALK TO BE REPLACED
EXISTING MAILBOX TO BE REMOVED. PATCH SIDEWALK
STA. 4+05.27, CURBLINE
EXISTING DRIVEWAY DROP AND SIDEWALK TO BE REPLACED
STA. 4+14.53, CURBLINE
24' WIDE DRIVEWAY APPROACH PER STD. DETAIL 00-504
CENTERLINE OF DRIVEWAY STA. 04+32.54, CURBLINE STA. 15+90.49, 15.77' LT OF ℄ STA. 00+15.73, ℄ OF ENTRANCE 1
STA. 15+90.49, ℄ OF BLANKENSHIP STA. 0+00.00, ℄ OF ENTRANCE 1
STA. 4+50.54, CURBLINE
STA. 4+94.72, CURBLINE
EXISTING DRIVEWAY DROP AND SIDEWALK TO BE REPLACED
STA. 5+11.54, CURBLINE
STOP SIGN SEE DETAILS, SHEET 3/9
STA. 2+115.50, ℄ ENTRANCE 1
(2) 2 SPACE BIKE RACKS
ADA PARKING SIGNS (SIX TYPICAL) SEE DETAIL
36'x8' GRASS CRETE WITH 16 SPACE BIKE RACK @ 4-FOOT SPACING BOTH SIDES OF ENTRY SEE DETAIL
EXISTING SIDEWALK TO BE WIDENED TO RETAINING WALL. MINIMUM 6-FEET WIDE
STA. 6+92.25, CURBLINE
EXISTING DRIVEWAY DROP AND SIDEWALK TO BE REPLACED
STA. 7+18.74, CURBLINE
EXISTING SIDEWALK TO BE WIDENED TO MINIMUM 6-FEET WIDE
BEGIN NEW CURB & SIDEWALK STA. 7+55.08, CURBLINE STA. 19+12.86, 24.33' LT OF ℄
PC, STA. 7+62.74, CURBLINE STA. 19+20.51, 24.34' LT OF ℄
STA. 10+00.00, ℄ SUMMERLINN DRIVE STA. 20+00.00, ℄ BLANKENSHIP ROAD
END OF NEW CURB STA. 08+17.58, CURBLINE STA. 10+86.40, 11.20' LT OF ℄ MATCHING TO EXISTING EDGE OF PAVEMENT
NEW ASPHALT
EXISTING STOP SIGN TO BE RELOCATED
ADA RAMP
EXISTING EDGE OF PAVEMENT - TO REMAIN
BIKE RACK
BIKE VAULT
PLAN
SCALE: 1" = 30'
BIKE AREA GRASS CRETE SECTION (E/2)
SCALE: NTS
GRASS PAVERS
6" OF 3/4"-0" CRUSHED ROCK
GEOTEXTILE FABRIC
NATIVE SOIL
FLUSH CURB BOTH SIDES
BIKE AREA GRASS CRETE SECTION (F/2)
SCALE: NTS
(8) BOLLARDS @ 4' O.C. FOR 16 BIKE SPACES, BOTH SIDES OF ENTRY. SEE DETAIL
MATCH TO EXISTING
EXISTING SIDEWALK
FLUSH CURB
8" CONCRETE FILL
THE HUNTCO KEY RACK OR APPROVED EQUAL
4 1/2" O.D., SCH. 40 STEEL PIPE
FINISH GROUND
BIKE BOLLARD (G/2)
SCALE: NTS
ENTRANCE 1 TYPICAL SECTION (A/2)
SCALE: NTS
STANDARD TYPE "C" CURB 4"-5" EXPOSURE
3 1/2" OF CLASS "C" A.C. PAVEMENT
8" OF 1"-0" COMPACTED AGGREGATE BASE
GEOTEXTILE FABRIC
ENTRANCE 2 TYPICAL SECTION (B/2)
SCALE: NTS
LIGHT DUTY SECTION (C/2)
SCALE: NTS
FORMED AND COMPACTED SUBGRADE
HEAVY DUTY SECTION (D/2)
SCALE: NTS
SLOPE VARIES (SEE GRADING PLAN)
TYPICAL PRIVATE PAVEMENT SECTION (H/2)
SCALE: NTS
8" OF 3000 PSI CONCRETE
2" OF 3/4"-0" CRUSHED ROCK
APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN
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DATE 9/19/2005 BY
APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005
TOTAL PARKING SPACES:
STANDARD 107
COMPACT 103
A.D.A. 7
MOTORCYCLE 5
222
REGISTERED PROFESSIONAL ENGINEER
BRUCE D. GOLDSON
EXPIRES: 06/30/2007
SIGNATURE DATE: 08/17/2005
PRINTED SEP 27 2005
Site Plan
DATE | NO. | REVISION
08/17/05 | 2 | REVISED PER CITY OF WEST LINN REVIEW
06/29/05 | 1 | REVISED PER NEW CONDITIONS OF APPROVAL
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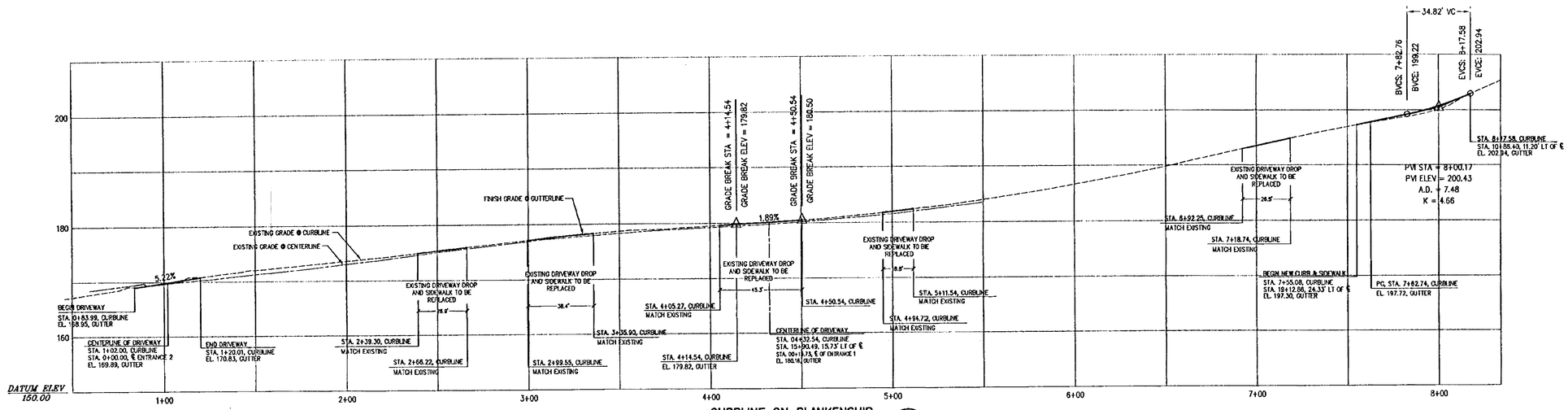
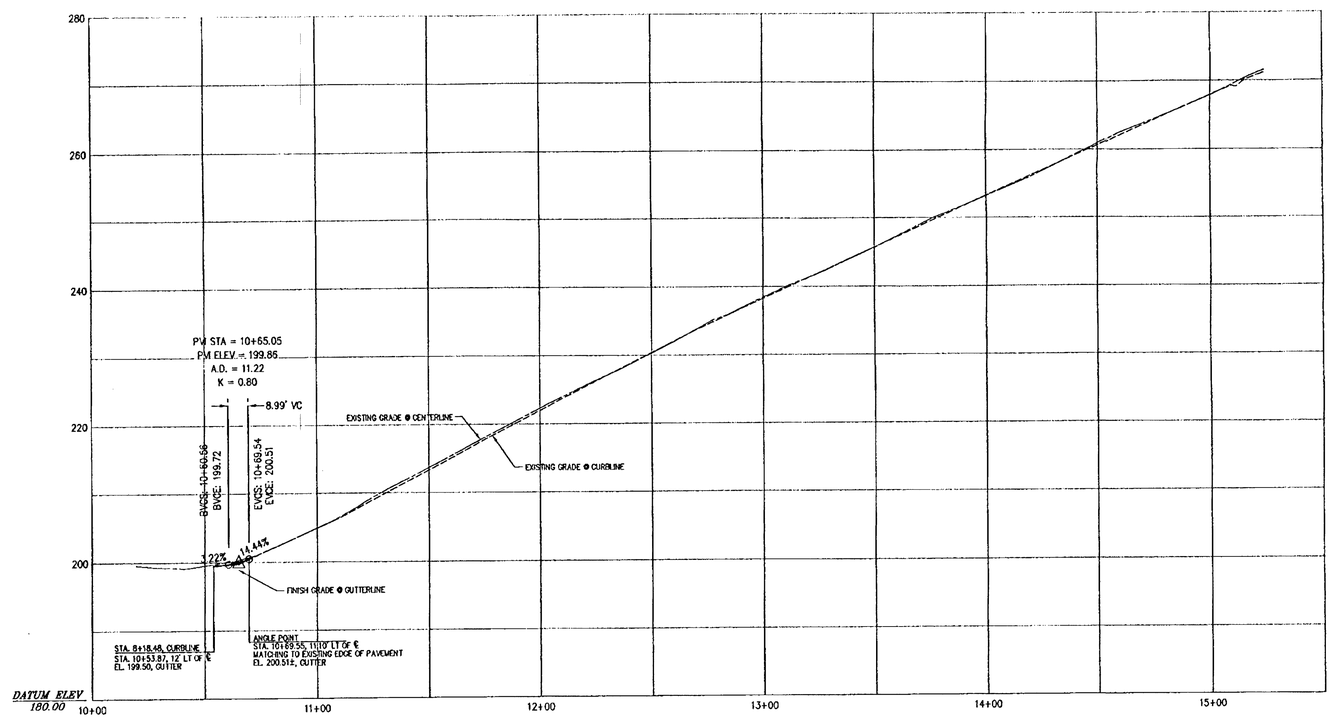
2/9



CURBLINE ON BLANKENSHIP GUTTERLINE PROFILE

SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL

1 / 3



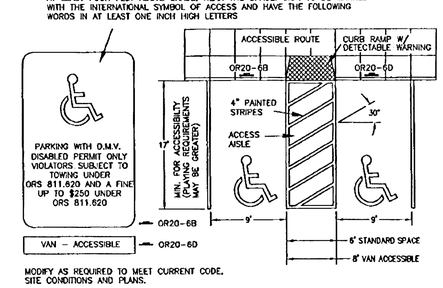
SUMMERLINN DRIVE GUTTERLINE PROFILE

SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL

2 / 3

NOTE:
ONE ACCESSIBLE PARKING SPACE MUST BE DESIGNATED "VA – ACCESSIBLE". THE OTHER SPACE CAN BE EITHER "VAN – ACCESSIBLE" OR THE STANDARD PARKING SPACE.
VAN – ACCESSIBLE SPACE SHALL HAVE AN ADDITIONAL SIGN (OR20-6D) MOUNTED BELOW THE STANDARD SPACE PARKING SIGN (OR20-6B)

PHYSICALLY HANDICAPPED PARKING SPACE TO BE IDENTIFIED WITH A SIGN AT LEAST FOUR FEET ABOVE GRADE, NEAR THE SPACE. SIGN TO BE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESS AND HAVE THE FOLLOWING WORDS IN AT LEAST ONE INCH HIGH LETTERS

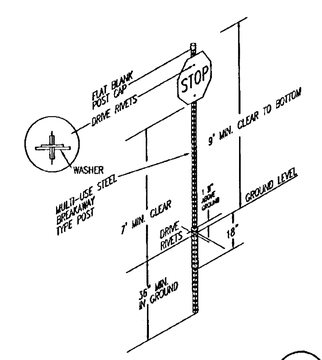


MODIFY AS REQUIRED TO MEET CURRENT CODE, SITE CONDITIONS AND PLANS.

DOUBLE ACCESSIBLE PARKING SPACE

SCALE: NTS

A / 3



TYPICAL SIGN ASSEMBLY

SCALE: NTS

B / 3

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

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CITY OF WEST LINN

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DATE 9/29/2005 BY [signature]

PRINTED
SEP 27 20[illegible]

REGISTERED PROFESSIONAL ENGINEER
PRICE D. GOLDSON
JULY 16, 1971
EXPIRES: 06/30/2007
SIGNATURE DATE: 09/17/2005

Street and Site Profiles 1

DATE	NO.	REVISION
08/17/05	1	REVISED PER CITY OF WEST LINN REVIEW

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The Summerlinn Center
TL 200, 1100, 1200, 1201, T.2S., R.1E., Sec. 35CB
West Linn, Oregon

3 / 9

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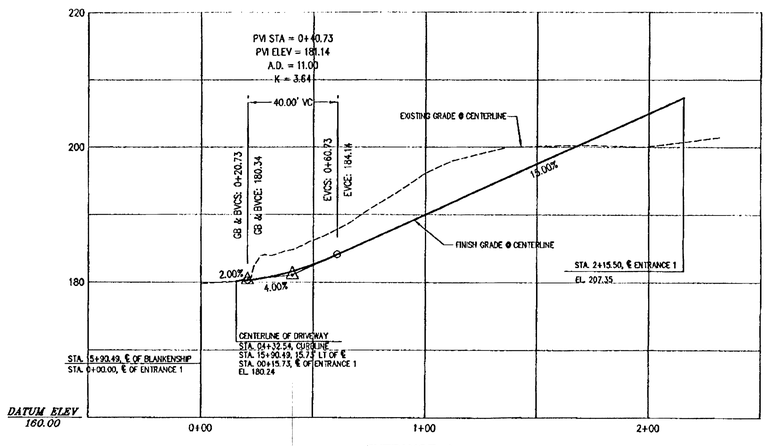
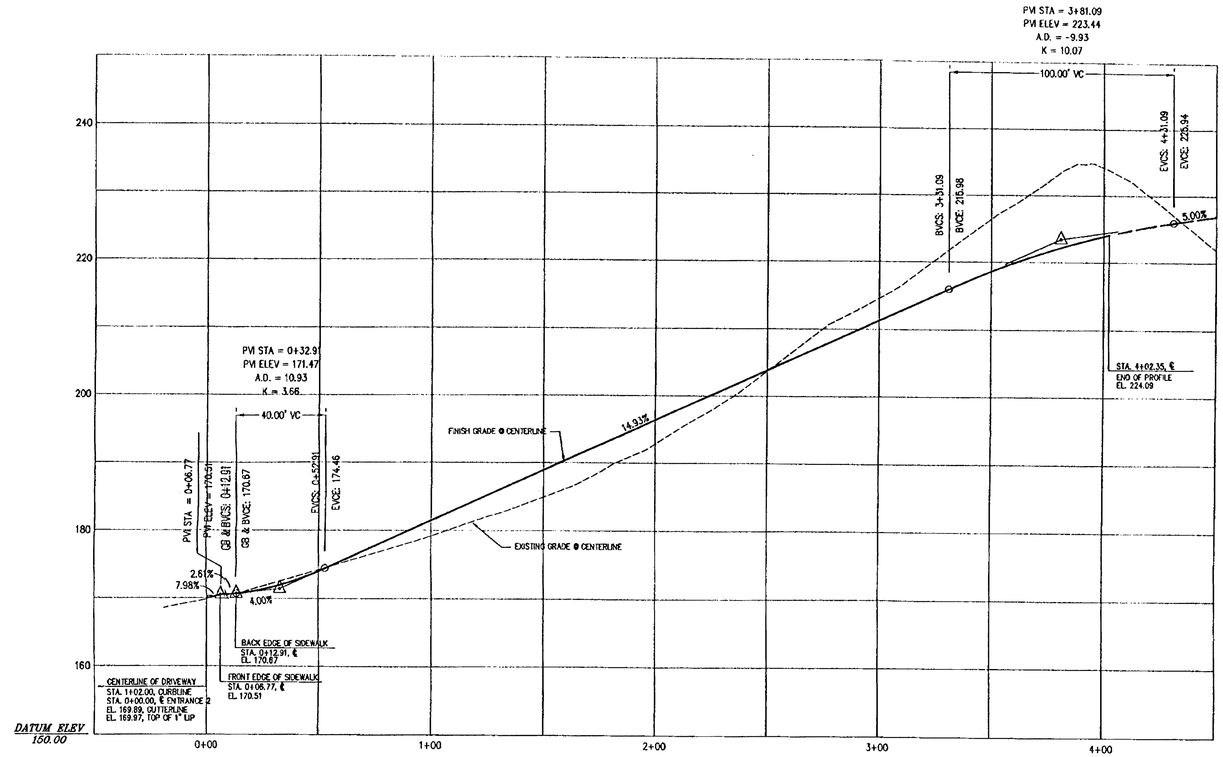


ENTRANCE 1
CENTERLINE PROFILE
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL
1/4



ENTRANCE 2
CENTERLINE PROFILE
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL
2/4

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
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DATE 9/29/2005 BY

REGISTERED PROFESSIONAL ENGINEER
OREGON
July 16, 1971
BRUCE D. GOLDSON
EXPIRES: 06/30/2007
SIGNATURE DATE: 08/17/2005

PRINTED
SEP 27 2005

Street and Site Profiles 2

DATE	NO.	REVISION
08/17/05	1	REVISED PER CITY OF WEST LINN REVIEW

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE 1" = 30' | DATE April, 2004
PLAN 04-5619-2794 | 5619 Civil

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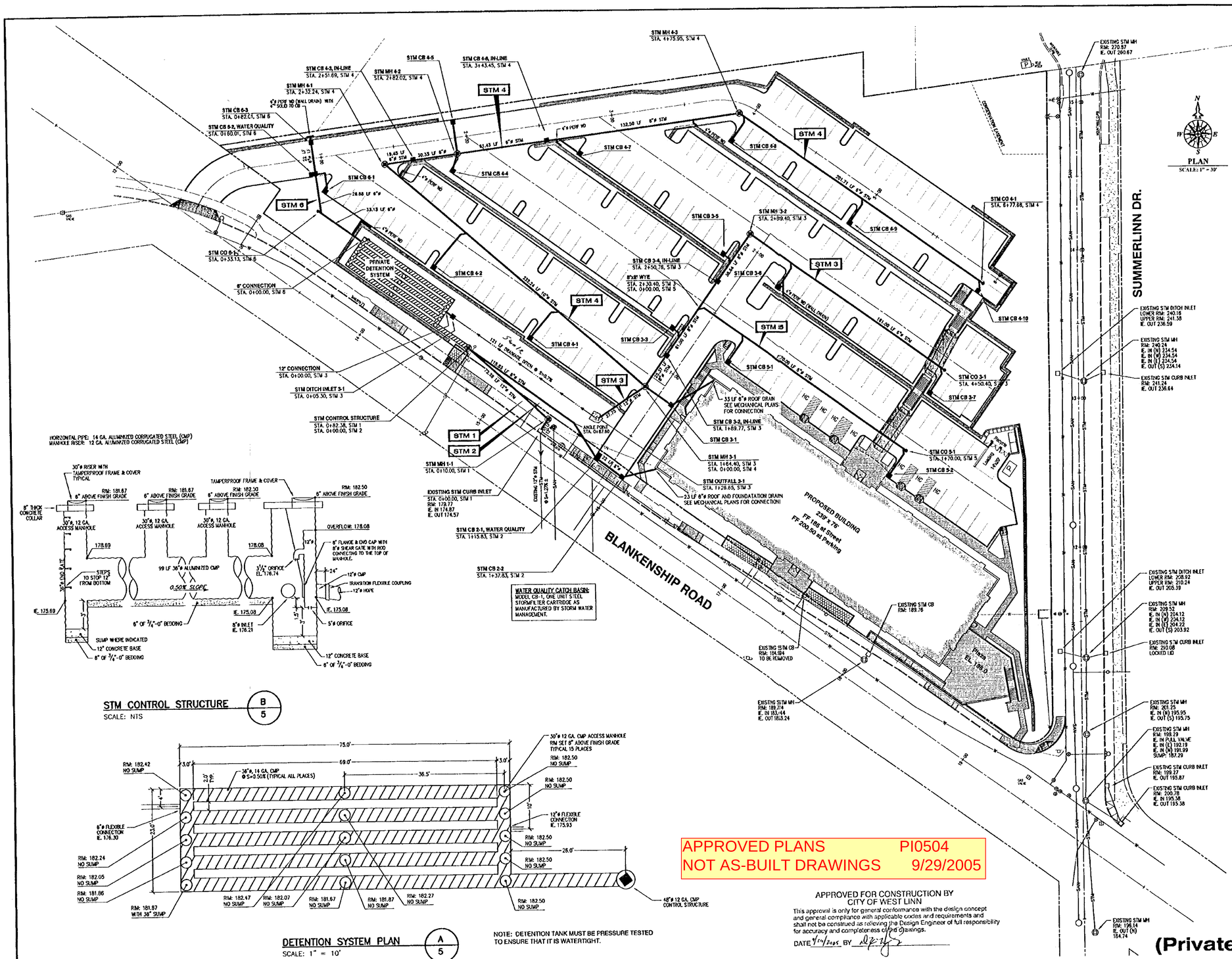
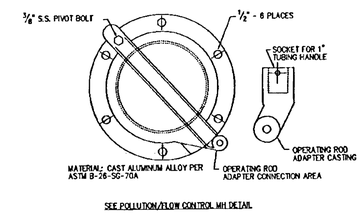


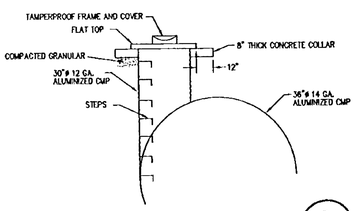
STM CB 3-1	
FLOW INTO STM MH 3-1 RIM: 187.13 IE. IN 182.34 IE. OUT 182.34 SUMP: 180.34 22 LF 6"ø STM @ S=4.41%	
STM CB 3-3	**STM CB 3-5**
WYE STA. 2+06.90, STM 3 RIM: 193.33 IE. OUT 190.69 SUMP: 188.69 7.00 LF 6"ø STM @ S=40.29%	WYE STA. 2+69.90, STM 3 RIM: 205.25 IE. OUT 203.75 SUMP: 201.75 7.00 LF 6"ø STM @ S=36.14%
STM CB 3-6	**STM CB 3-7**
WYE STA. 3+18.40, STM 3 RIM: 205.50 IE. OUT 203.39 SUMP: 201.39 18.50 LF 6"ø STM @ S=1.0%	FLOWS INTO STM CO 3-1 RIM: 209.68 IE. OUT 207.55 SUMP: 205.55 18.50 LF 6"ø STM @ S=1.0%
STM CB 6-1	**STM CB 6-2**
WYE STA. 0+80.87, STM 4 RIM: 185.39 IE. OUT 182.22 SUMP: 180.22 28.30 LF 6"ø STM @ S=1.10%	WYE STA. 1+82.19, STM 4 RIM: 184.47 IE. OUT 182.25 SUMP: 180.25 32.05 LF 6"ø STM @ S=1.0%
STM CB 4-4	**STM CB 4-5**
FLOWS INTO STM MH 4-2 RIM: 195.50 IE. OUT 192.50 SUMP: 190.50 12.10 LF 6"ø STM @ S=14.88%	FLOWS INTO STM MH 4-2 RIM: 195.10 IE. OUT 192.10 SUMP: 190.10 21.94 LF 6"ø STM @ S=6.38%
STM CB 4-7	**STM CB 4-8**
WYE STA. 3+70.60, STM 4 RIM: 208.64 IE. OUT 205.84 SUMP: 203.84 18 LF 6"ø STM @ S=30.44%	FLOWS INTO STM MH 4-3 RIM: 223.06 IE. OUT 220.26 SUMP: 218.26 18.50 LF 6"ø STM @ S=6.59
STM CB 4-9	**STM CB 4-10**
WYE STA. 5+79.66, STM 4 RIM: 227.79 IE. OUT 224.39 SUMP: 222.39 18.50 LF 6"ø STM @ S=8.54%	FLOWS INTO STM CO 4-1 RIM: 230.32 IE. OUT 227.18 SUMP: 225.18 8.50 LF 6"ø STM @ S=8.62%
STM CB 5-1	**STM CB 5-2**
WYE STA. 0+37.00, STM 5 RIM: 198.25 IE. OUT 193.17 SUMP: 191.17 20.50 LF 6"ø STM @ S=2.34%	FLOWS INTO STM CO 5-1 RIM: 198.85 IE. OUT 195.90 SUMP: 193.90 20.50 LF 6"ø STM @ S=1.02%
STM CB 6-1	
FLOWS INTO STM CB 6-2 RIM: 182.25 IE. OUT 179.25 SUMP: 177.25 19.5 LF 6"ø STM @ S=11.68%	

STM CONTROL STRUCTURE (B/5)
SCALE: NTS



SEE POLLUTION/FLOW CONTROL MH DETAIL

SHEAR GATE (C/5)
SCALE: NTS



ACCESS MANHOLE DETAIL (D/5)
SCALE: NTS

DETENTION SYSTEM PLAN (A/5)
SCALE: 1" = 10'

NOTE: DETENTION TANK MUST BE PRESSURE TESTED TO ENSURE THAT IT IS WATERTIGHT.

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
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DATE 9/26/2005 BY

REGISTERED PROFESSIONAL ENGINEER
BRUCE D. GOLDSON
OREGON
JULY 18, 1971

PRINTED
SEP 27 2005
EXPIRES: 06/30/2007
SIGNATURE DATE: 09/26/2005

(Private) Storm Drainage Plan

DATE	NO.	REVISION
03/26/05	4	REVISED PER CITY OF WEST LINN REVIEW (2)
08/17/05	3	REVISED PER CITY OF WEST LINN REVIEW
06/29/05	2	REVISED PER NEW CONDITIONS OF APPROVAL
10/20/04	1	REVISED PER STORMWATER MANAGEMENT

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE 1" = 30' | DATE April, 2004
PLAN 04-5619-2794 | 5619 Civil

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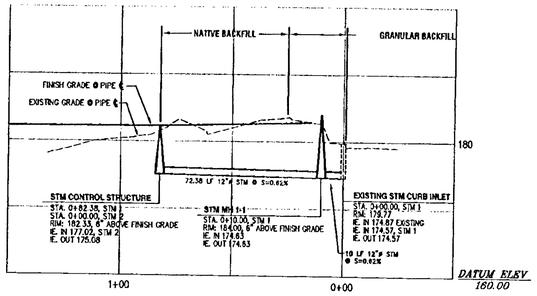
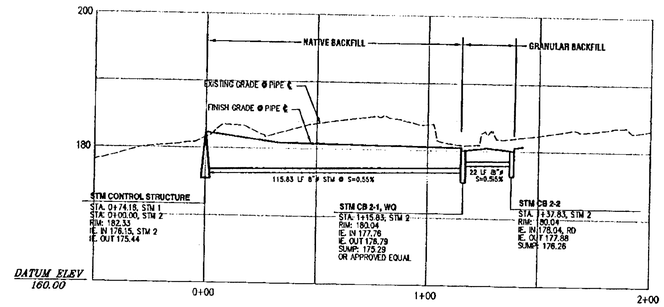
P:\5600\5619\AutoCAD\dwgs\5619 Civil.dwg, Sum, 9/26/2005 4:53:39 PM, DJ0000

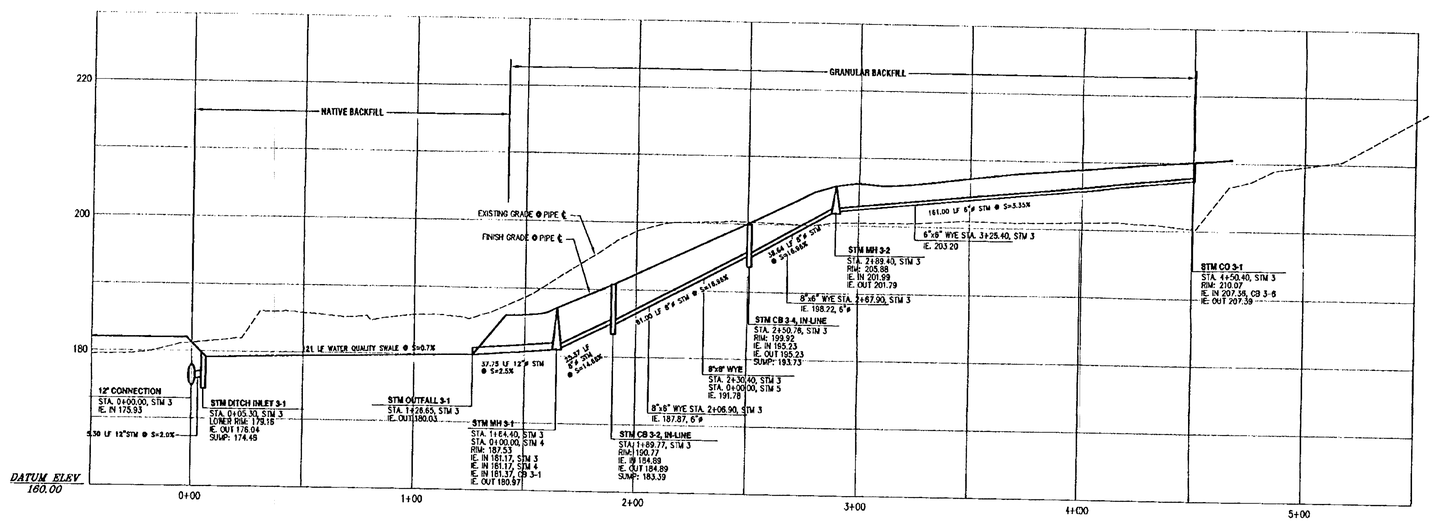


STM 1
STORM DRAINAGE PROFILE (1/6)
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL

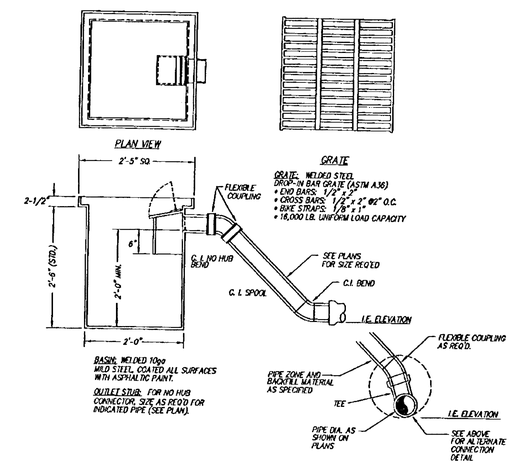


STM 2
STORM DRAINAGE PROFILE (2/6)
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL

WATER QUALITY CATCH BASIN:
MODEL CB-1, ONE UNIT STEEL STORMFILTER CARTRIDGE AS MANUFACTURED BY STORM WATER MANAGEMENT. SET UNIT TO SLOPE OF DRIVE.



STM 3
STORM DRAINAGE PROFILE (3/6)
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL



CATCH BASIN
SCALE: NTS

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

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EXPIRES: 06/30/2007
SIGNATURE DATE: 09/26/2005

Storm Drainage Profiles 1

DATE	NO.	REVISION
09/26/05	3	REVISED PER CITY OF WEST LINN REVIEW (2)
08/17/05	2	REVISED PER CITY OF WEST LINN REVIEW
10/20/04	1	REVISED PER STORMWATER MANAGEMENT

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE 1" = 30' | DATE April, 2004
PLAN 04-5619-2794 | 5619 Civil

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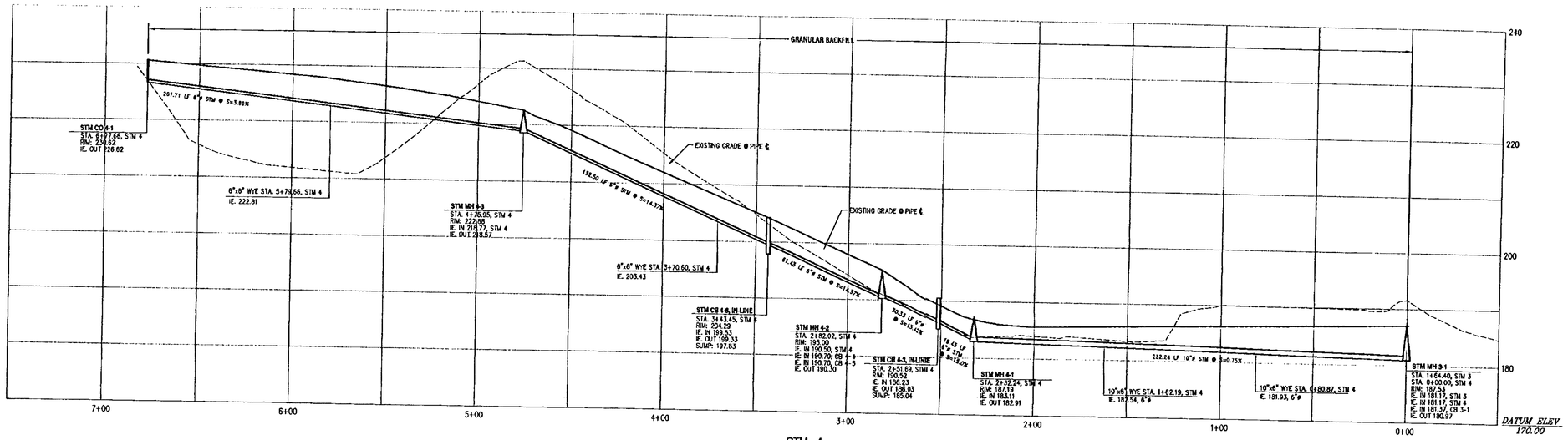
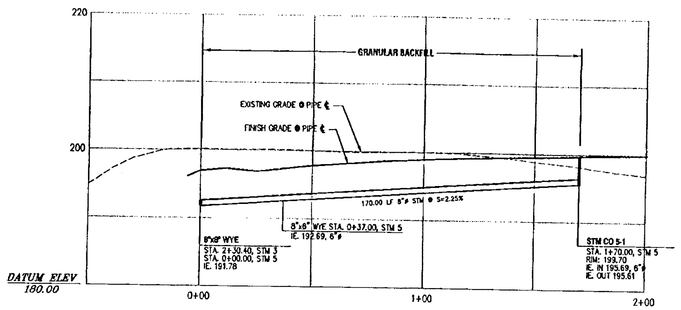
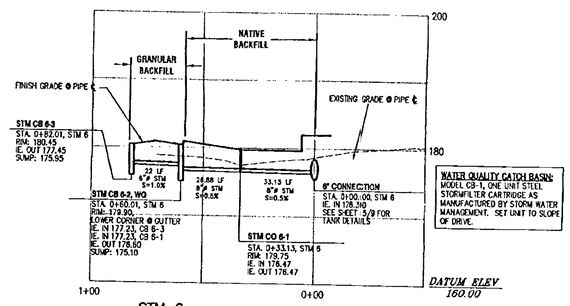
West Linn, Oregon



STM 4
STORM DRAINAGE PROFILE (4/7)
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL



STM 5
STORM DRAINAGE PROFILE (5/7)
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL



STM 6
STORM DRAINAGE PROFILE (6/7)
SCALE: 1" = 30' HORIZONTAL
1" = 10' VERTICAL

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
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DATE: 9/29/2005 BY

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REGISTERED PROFESSIONAL ENGINEER 7120 JULY 18, 1972 BRUCE D. GOLDSON
EXPIRES: 06/30/2007
SIGNATURE DATE: 09/17/2005

DATE	NO.	REVISION
08/17/05	2	REVISED PER CITY OF WEST LINN REVIEW
10/20/04	1	REVISED PER STORMWATER MANAGEMENT

DRAWN BJS | DESIGNED SFN | CHECKED BDG
SCALE 1" = 30' | DATE April, 2004
PLAN 04-5619-2794 | 5619 Civil

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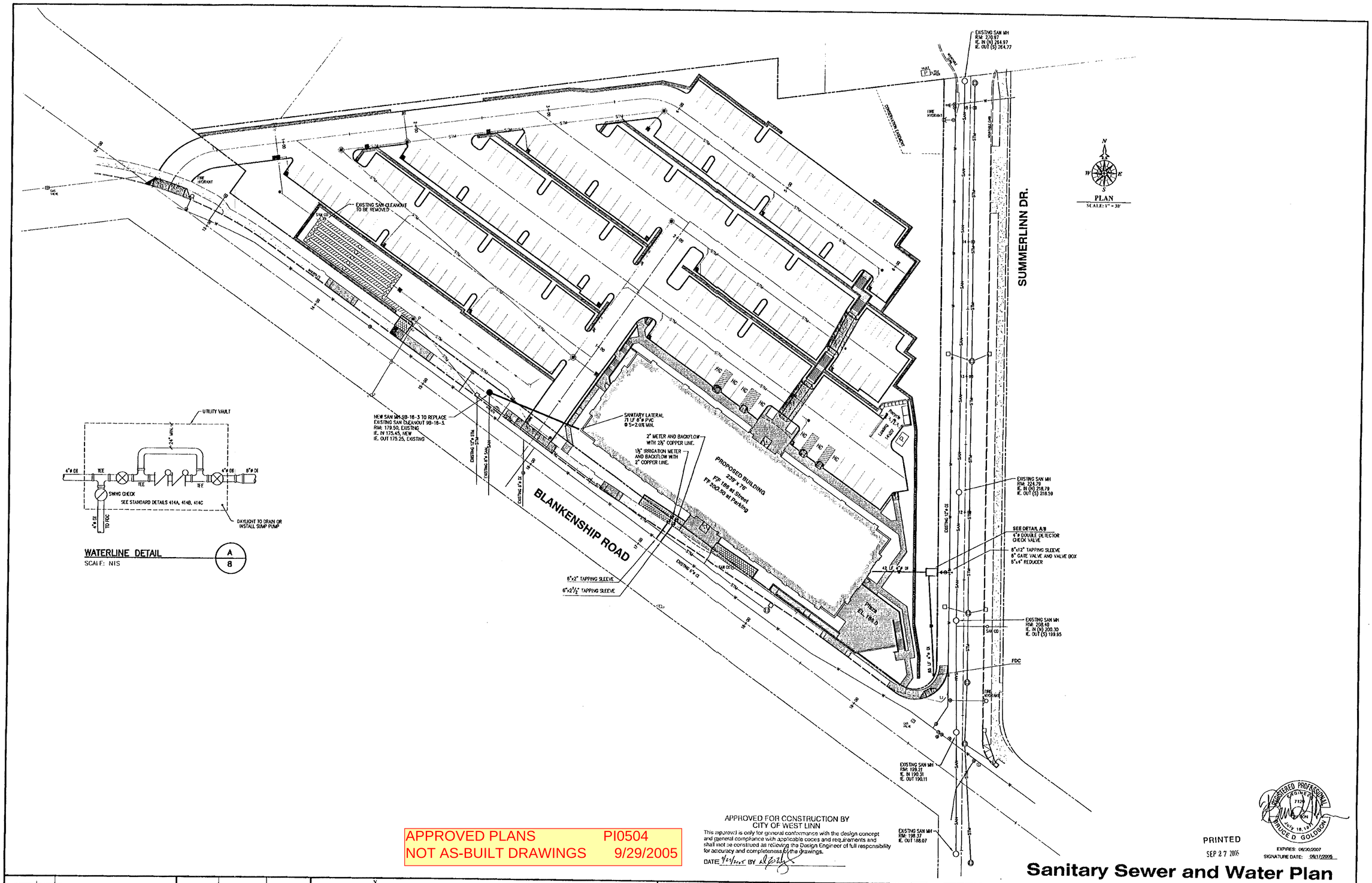
West Linn, Oregon

Storm Drainage Profiles 2

7/9



APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

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DATE 9/29/2005 BY [signature]

PRINTED
SEP 27 2005

REGISTERED PROFESSIONAL ENGINEER 7124 OREGON JULY 16, 1971 BRUCE D. GOLDSON

EXPIRES: 06/30/2007
SIGNATURE DATE: 08/17/2005

Sanitary Sewer and Water Plan

DATE	NO.	REVISION
08/17/05	2	REVISED PER CITY OF WEST LINN REVIEW
06/29/05	1	REVISED PER NEW CONDITIONS OF APPROVAL

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE 1" = 30' | DATE April, 2004
PLAN 04-5619-2794 | 5619 Civil

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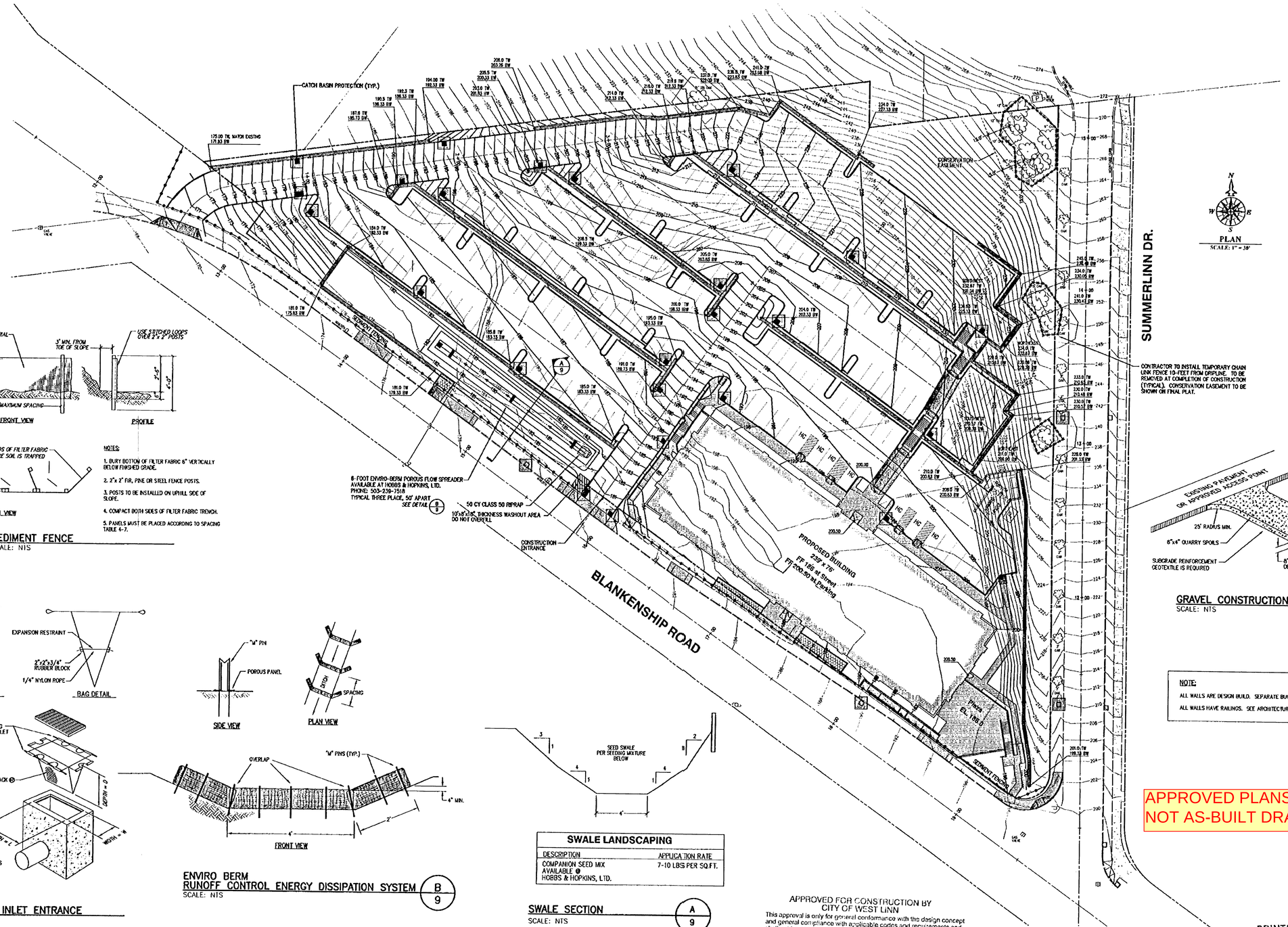
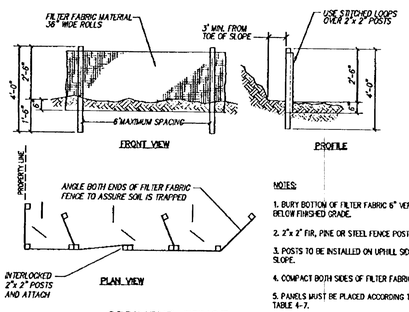
West Linn, Oregon

8/9

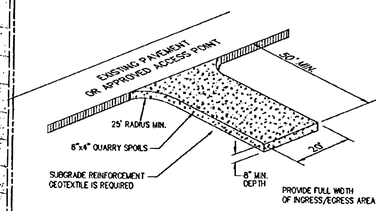




NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING TABLE 4-7.

SEDIMENT FENCE
SCALE: NTS

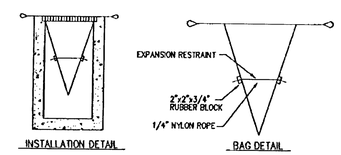


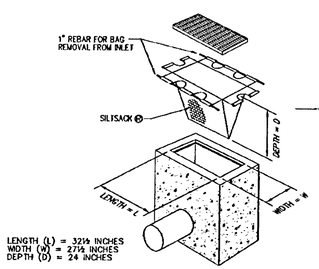
GRAVEL CONSTRUCTION ENTRANCE
SCALE: NTS

NOTE:

ALL WALLS ARE DESIGN BUILD. SEPARATE BUILDING PERMITS REQUIRED.

ALL WALLS HAVE RAILINGS. SEE ARCHITECTURAL PLANS FOR DETAILS.





FILTER BAG INLET ENTRANCE
SCALE: NTS

ENVIRO BERM RUNOFF CONTROL ENERGY DISSIPATION SYSTEM (B/9)
SCALE: NTS

SWALE LANDSCAPING	
DESCRIPTION	APPLICATION RATE
COMPANION SEED MIX AVAILABLE @ HOBBS & HOPKINS, LTD.	7-10 LBS PER SQ.FT.

SWALE SECTION (A/9)
SCALE: NTS

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN

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DATE 9/29/2005 BY

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005

REGISTERED PROFESSIONAL ENGINEER 7120 BRUCE D. GOLDSON JULY 18, 1971

PRINTED SEP 27 2005

EXPIRES: 06/30/2007
SIGNATURE DATE 08/31/2005

Grading and Erosion Control Plan

DATE	NO.	REVISION
08/17/05	4	REVISED PER CITY OF WEST LINN REVIEW
07/19/05	3	REVISED PER WALL SECTION
06/29/05	2	REVISED PER NEW CONDITIONS OF APPROVAL
06/14/05	1	REVISED PER DEQ 1200C

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE 1" = 30' | DATE April, 2004
PLAN 04-5619-2704 | 5619 Civil

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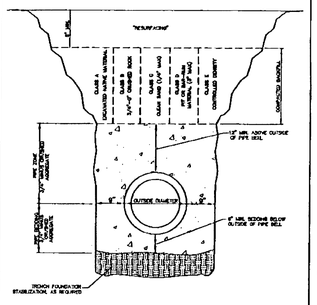
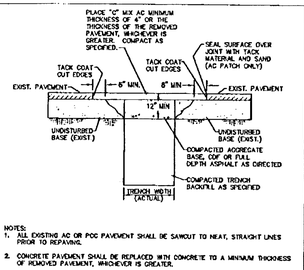


Trench Backfill, Bedding and Pipe Zone

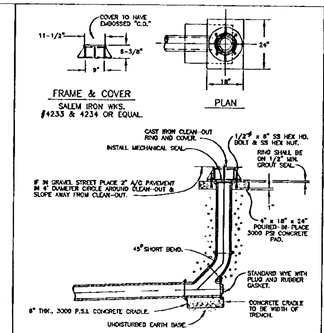
West Linn — DATE: JAN 2000 — DRAWING NO. WL-200 — FILE NO. 00-200



NOTES:
1. ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT TO HEAT, STRAIGHT LINES PRIOR TO REPAVING.
2. CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER.
3. IF EXISTING BASE MATERIAL IS CTB OR ATB, THEN REPLACEMENT BASE MATERIAL SHALL MATCH EXISTING.
4. ALL UTILITIES SHALL HAVE A MINIMUM COVER OF 36".
5. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180 OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
6. ALL TRENCH BACKFILL AND PATCHING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF WEST LINN.
7. BACKFILL SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 8" LIFTS.

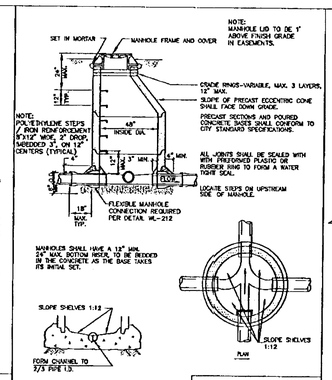
Street T-Cut

West Linn — DATE: JAN 2000 — DRAWING NO. WL-203 — FILE NO. 00-203



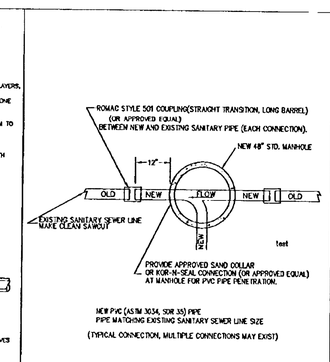
Standard Clean Out

West Linn — DATE: JAN 2000 — DRAWING NO. WL-205 — FILE NO. 00-205



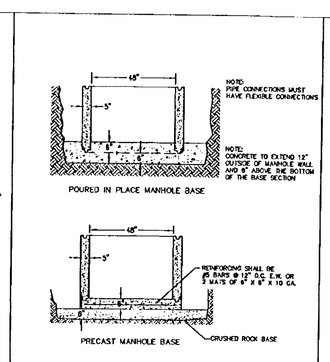
Standard Manhole for Less than 36" Pipe

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



Manhole Detail-Plan View New Manhole to Existing Sewer Line Connection

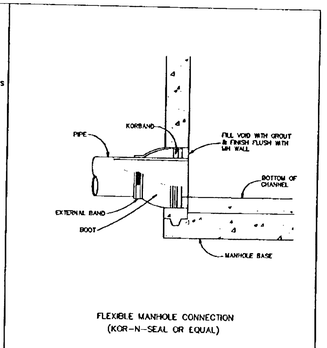
West Linn — DATE: JAN 2000 — DRAWING NO. WL-210 — FILE NO. 00-210



NOTE: USE 3300 PSI CONCRETE FOR EITHER MANHOLE BASE.

Manhole Base

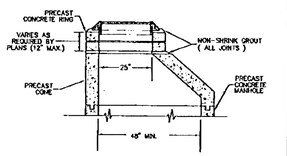
West Linn — DATE: JAN 2000 — DRAWING NO. WL-211 — FILE NO. 00-211



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

Flexible Manhole Connection

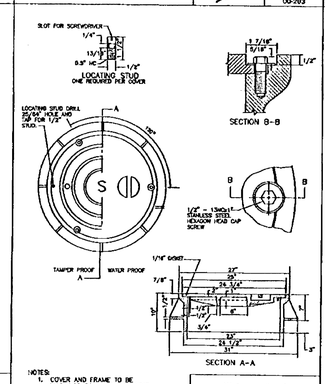
West Linn — DATE: JAN 2000 — DRAWING NO. WL-212 — FILE NO. 00-212



PRECAST RING EXTENSION FOR TYPICAL MANHOLE

Precast Ring Extension

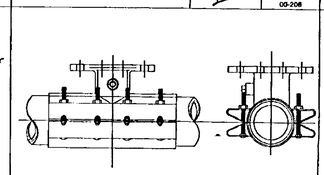
West Linn — DATE: JAN 2000 — DRAWING NO. WL-213 — FILE NO. 00-213



NOTES
1. COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.
2. MATERIAL SHALL BE OF GRAY CAST IRON A.S.T.M. A-48 CLASS 30.
3. 2 HOLE LID FOR SANITARY SEWER
4. 18 HOLE LID FOR STORM SEWER

Waterproof and Tamperproof Manhole Frame and Cover

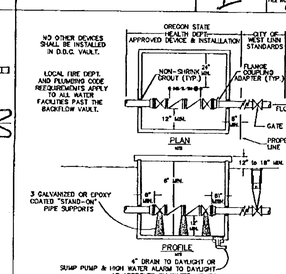
West Linn — DATE: JAN 2000 — DRAWING NO. WL-214 — FILE NO. 00-214



NOTES:
1. WATER MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE.
2. SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP.
3. PRESSURE TEST AND TAP SHALL BE MADE IN THE PRESENCE OF AN AUTHORIZED CITY REPRESENTATIVE.
4. PROPER TAPPING MACHINE SHALL BE USED TO MAKE TAP.
5. THRUST BLOCKING REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER OR PER DWG. WL-406.
6. TAP SHALL BE MADE NO CLOSER THAN 18 INCHES FROM THE NEAREST JOINT.
7. SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL PLASTIC.
8. SLEEVES TO BE USED ARE JCM OR MUELLER STAINLESS STEEL. TAPPING SLEEVES. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
9. SLEEVE SHALL BE AS LEVEL AS POSSIBLE.
10. ALL BOLTS SHALL HAVE NEVER SEIZE ON THREADS.

Standard Wet Tap

West Linn — DATE: JAN 2000 — DRAWING NO. WL-410 — FILE NO. 00-410



D.D.C. SIZE	UTILITY VALVE TAG BOUNDARY DETECTOR CHECK DEVICE TAGS	
3"	577-LA	LID 577-TL2-333P
4"	577-LA	LID 577-TL2-333P
8"	678-LA	LID 678-TL2-333P
8"	687-LA	LID 687-TL2-333P
10"	5108-LA	LID 5108-TL3-333P

Double Detector Check Vault

West Linn — DATE: JAN 2000 — DRAWING NO. WL-414A — FILE NO. 00-414A

CITY OF WEST LINN REQUIREMENTS FOR BACKFLOW PREVENTION DEVICE ASSEMBLY INSTALLATIONS ON 1 1/2" AND LARGER DOMESTIC SERVICES, IRRIGATION SERVICES AND FIRELINE SERVICES

An approved backflow prevention device assembly is required on all 1 1/2" and larger domestic water size services, all irrigation and fireline services. A device assembly will be approved by the City of West Linn only if the State of Oregon Health Division has approved its use as a backflow device assembly. The device must be installed at the property line. When it is not possible to locate the device at the property line, the proposed location must be approved by the Water Division Engineer. A water service shall not be turned on until all required backflow prevention devices are installed, inspected, tested and registered with the City of West Linn. Costs of all installations, including all costs of initial inspection and testing fees, shall be the responsibility of the customer. The customer will be responsible for all maintenance and testing of the device and vault when used.

CONSTRUCTION AND DESIGN STANDARDS FOR WATER FACILITIES

1. All pipe shall be installed to the City of West Linn's Public Works Standards.
2. The City of West Linn will be furnished with three sets of plans and specifications. The plans shall be drawn at a scale of 1"=20' for plan check. One set of revised plans shall be returned to the engineer for revisions.
3. The contractor shall keep one set of approved plans at the construction site.
4. The engineer shall furnish the City of West Linn 48-hours notice prior to construction.
5. Water facilities shall be installed in the presence of the City of West Linn's inspector. The inspector shall have access to the construction site at all times.
6. Wire mains shall be pressure tested and disinfected by the contractor and proven to be bacteriologically safe prior to placing new mains in service and prior to connection to City facilities.
7. Upon completion of the water facility, the engineer shall notify the City of West Linn 48 hours in advance of desired, final inspection.

Double Detector Check Vault

West Linn — DATE: JAN 2000 — DRAWING NO. WL-414B — FILE NO. 00-414B

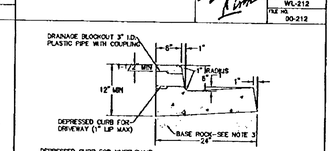
To ensure proper operation and accessibility of all backflow prevention device assemblies, the following requirements shall apply to installation of these devices, unless specifically approved by the Water Division Engineer.

1. No part of the backflow prevention device shall be submerged in water or installed in a location subject to flooding. If installed in a vault or chamber, adequate drainage shall be provided by either drainage to daylight or by sump pump with high water alarm system. Test cocks shall be plugged. The plug shall not be of dissimilar metals.
2. The device assembly must be protected from freezing and other severe weather conditions.
3. Only devices approved for vertical installation may be installed vertically.
4. The device assembly shall be easily accessibly with adequate room for maintenance and testing. The device assembly shall have at least a 12-inch clearance below and on both sides of the device for testing, and if located in a vault, the top of the device assembly shall be between 12 and 24 inches below grade.

   All device assemblies larger than 2 inches shall have a 12-inch clearance on the backside, a 24-inch clearance on the test cock side, and 12 inches below the device assemblies. Adequate clearance (3 inches minimum) must be maintained above O.S. & Y. gate-valve stem. Headroom of 6'-0" is required in vaults. Access to the device and to any vault or chamber shall provide clear at all times. An OR-OSHA approved chamber ladder that extends 3 ft. above surface of vault shall be installed.
5. No indicating valves are allowed on Double Check Device assemblies.
6. Only approved Double Check Detector Check Valve Assemblies are to be used for system containment on the fire services in the City of West Linn. The metal on bypass assembly shall read in cubic feet.
7. If a Fire Line Flow, or Tamper Switch is installed, it must be connected to a monitored Fire Detection System approved by the Fire Marshal. No installation will modify the backflow device assembly or interfere with its operation or maintenance.
8. All backflow devices shall be installed at the service connection to the premises per Oregon Administrative Rules 333-61-070, Cross Connection Control Regulations, unless specifically approved by the Water Division Engineer. (service connection - is location where the public water facilities end at or near the property line)
9. All pipe between main and device shall be restrained. Use Megalug retainer glands on all fittings and Field-Lok gaskets on bell joints. MJ-flange adapters may be used in vaults.

Double Detector Check Vault

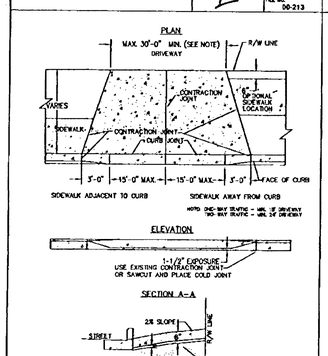
West Linn — DATE: JAN 2000 — DRAWING NO. WL-414C — FILE NO. 00-414C



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 MUET 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

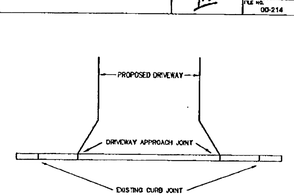
West Linn — DATE: JAN 2000 — DRAWING NO. WL-501 — FILE NO. 00-501



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

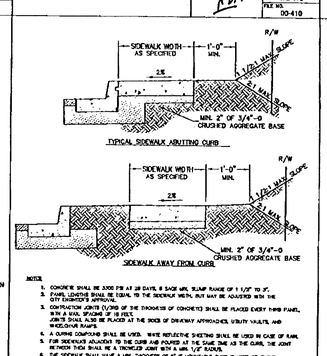


NOTES
1. FOR THE INSTALLATION OF A DRIVEWAY APPROACH, THE REMOVAL OF CURB SHALL ADHERE TO THE FOLLOWING:
   A. FOR STANDARD CURB, IF THE EXISTING CURB JOINT IS 8 FEET OR LESS FROM THE DRIVEWAY APPROACH JOINT, REMOVAL SHALL BE TO THE EXISTING CURB JOINT.
   B. IF THE EXISTING CURB JOINT IS MORE THAN 8 FEET FROM THE DRIVEWAY APPROACH JOINT, OR IF THE AREA IS CURB & GUTTER, THEN THE TOP AND FACE OF THE CURB SHALL BE SAW-CUT TO A MIN. DEPTH OF 2" PRIOR TO REMOVAL.
   C. THE REMOVAL OF CURB TO THE EXISTING CURB JOINT MAY BE ADJUSTED UPON THE CITY'S APPROVAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF CURB DAMAGED DUE TO CONSTRUCTION.

AN INSPECTION OF THE CURBS SHALL BE PERFORMED PRIOR TO FINAL APPROVAL FOR OCCUPANCY.

Curb Removal and Damage Inspection

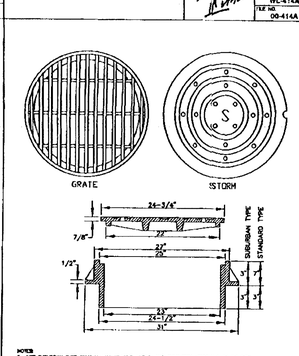
West Linn — DATE: JAN 2000 — DRAWING NO. WL-505 — FILE NO. 00-505



NOTES
1. CONCRETE SHALL BE 3000 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 10 FEET.
4. EXPANSION JOINTS SHALL BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHERE SHOWN.
5. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN LIEU OF RAIN.
6. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A BONDED JOINT WITH A MIN. 1/2" RADIUS.
7. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" AT APPROACHES OVER 8 FEET OR IF THE SIDEWALK IS SUBJECT TO USE AS A PORTION OF THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
8. 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-506 — FILE NO. 00-506

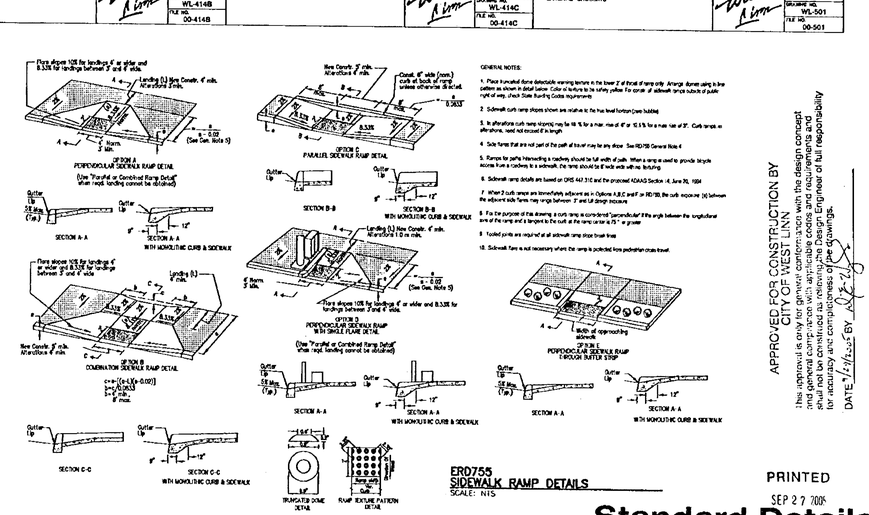


NOTES
1. USE SUBURBAN TYPE ONLY IN NON-TRAFFIC AREAS, AND ONLY WITH APPROVAL BY THE CITY.
2. COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-48 CLASS 30.
3. COVER TO BE SOLID, WITH NO HOLES, CONFORMED TO A TRUE BEARING ALL AROUND.
4. WORK LID FOR LIFTING HOOK.
5. SPOT GRATES REQUIRE APPROVAL BY CITY, AND MUST BE BICYCLE SAFE IF USED IN TRAFFIC AREAS.

SUBURBAN AND STANDARD MANHOLE FRAME AND COVER

Manhole Covers

West Linn — DATE: JAN 2000 — DRAWING NO. WL-505 — FILE NO. 00-505



GENERAL NOTES:
1. Place truncated dome detectable warning tactiles in the lower 2' of throat of ramp only. Arrange domes along in line pattern as shown in detail below. Color or texture to be safety yellow. For curbs, all sidewalk ramps outside of public right of way, check State Building Codes requirements.
2. Sidewalk curb ramp shapes shown are relative to the has level horizon (see bubble).
3. In alternative curb ramp retaining ramp for 18 % for a max. rise of 6" or 12.5 % for a max. rise of 3". Curb ramps in alternative, need not exceed 6' in length.
4. Side flares that are not part of the path of travel may be any slope. See ADAS General Note 4.
5. Ramps for paths intersecting a roadway should be full width of path. When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 6' wide within the roadway.
6. Sidewalk ramp details are based on ORS 447.310 and the proposed ADAAG Section 14, June 30, 1994.
7. Where 2 curb ramps are immediately adjacent as in Options A,B,C and F or F0/B0, the curb exposure (X) between the adjacent side flares may range between 2' and full design exposure.
8. For the purpose of this drawing a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a tangent to the curb at the ramp center is 75° + or greater.
9. Tooled joints are required at all sidewalk ramp slope break lines.
10. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross travel.

ER0755 SIDEWALK RAMP DETAILS

SCALE: NTS

APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN

This approval is only for general conformance with the design concept of the project as shown on the plans and specifications. It does not relieve the Design Engineer of full responsibility for accuracy and completeness of the drawings.

DATE 7/21/2005 BY

PRINTED SEP 27 2005

Standard Details

DATE	NO.	REVISION

DRAWN BJS | DESIGNED SRN | CHECKED BDG
SCALE NTS | DATE April, 2004
PLAN 04-5619-2794 | 5619 Details

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D1

APPROVED PLANS PI0504
NOT AS-BUILT DRAWINGS 9/29/2005