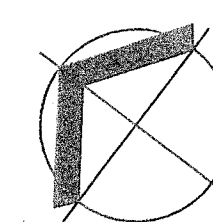
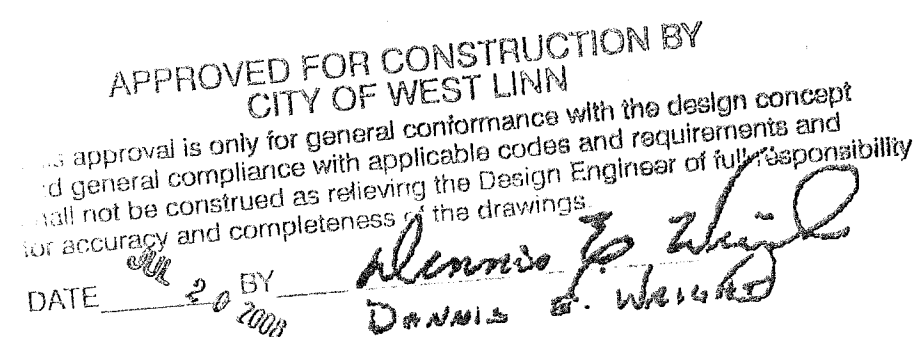


JUNE 9, 2006

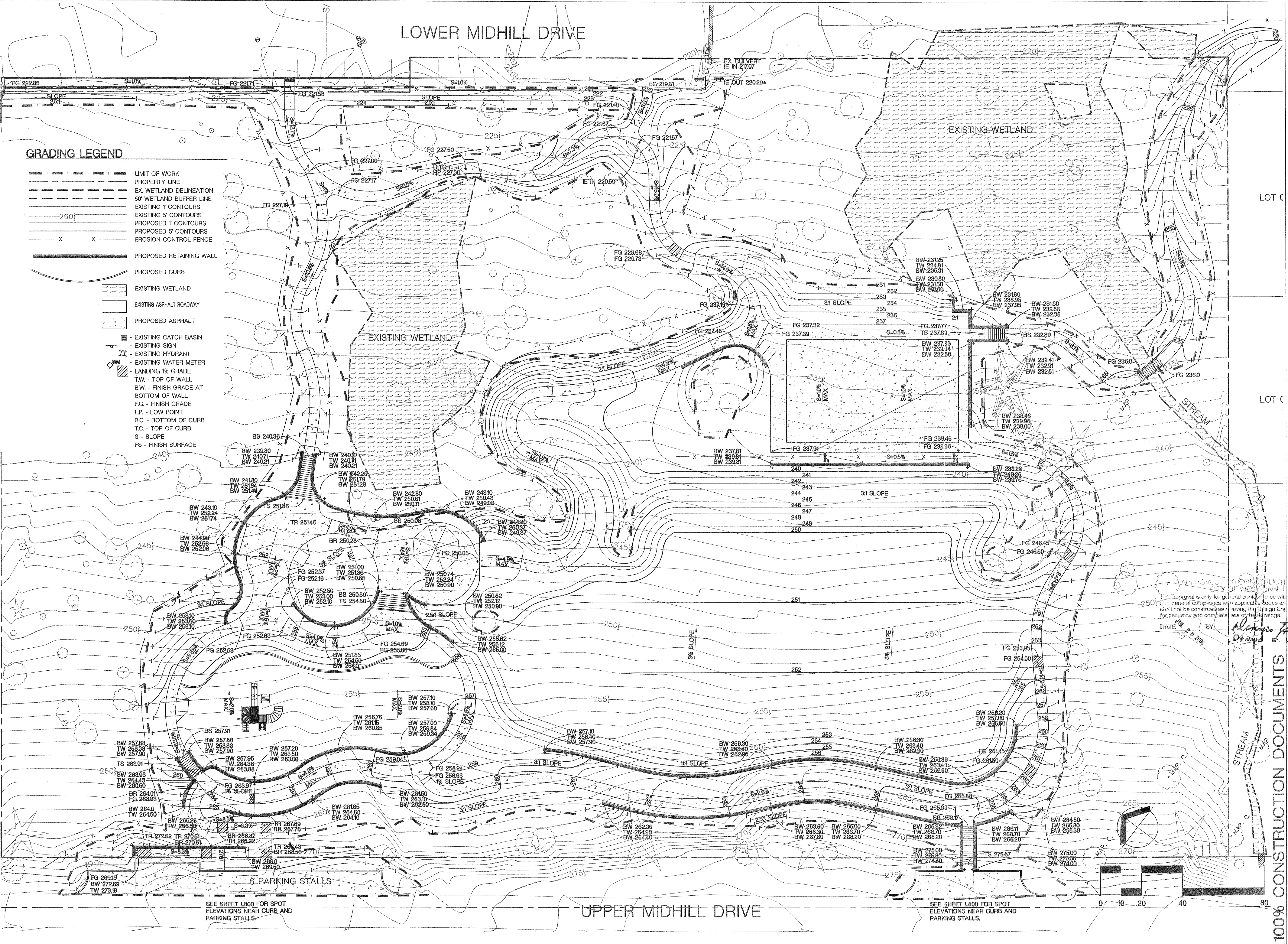


L201

LOWER MIDHILL DRIVE

GRADING LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- - - EX. WETLAND DELINEATION
- - - 50' WETLAND BUFFER LINE
- - - EXISTING 1' CONTOURS
- - - EXISTING 5' CONTOURS
- - - PROPOSED 1' CONTOURS
- - - PROPOSED 5' CONTOURS
- - - EROSION CONTROL FENCE
- PROPOSED RETAINING WALL
- PROPOSED CURB
- EXISTING WETLAND
- EXISTING ASPHALT ROADWAY
- PROPOSED ASPHALT
- EXISTING CATCH BASIN
- EXISTING SIGN
- EXISTING HYDRANT
- EXISTING WATER METER
- LANDING 1% GRADE
- T.W. - TOP OF WALL
- B.W. - FINISH GRADE AT BOTTOM OF WALL
- F.G. - FINISH GRADE
- L.P. - LOW POINT
- B.C. - BOTTOM OF CURB
- T.C. - TOP OF CURB
- S - SLOPE
- FS - FINISH SURFACE



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22500 Solamo Road
West Linn, Oregon 97068
(503) 772-5500

GRADING PLAN
MIDHILL PARK
CITY OF WEST LINN
WEST LINN, OREGON

APPROVED FOR CONSTRUCTION
DATE 02/14/07 BY [Signature]
This approval is only for general compliance with the design concept and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings.

#	DATE	DESCRIPTION

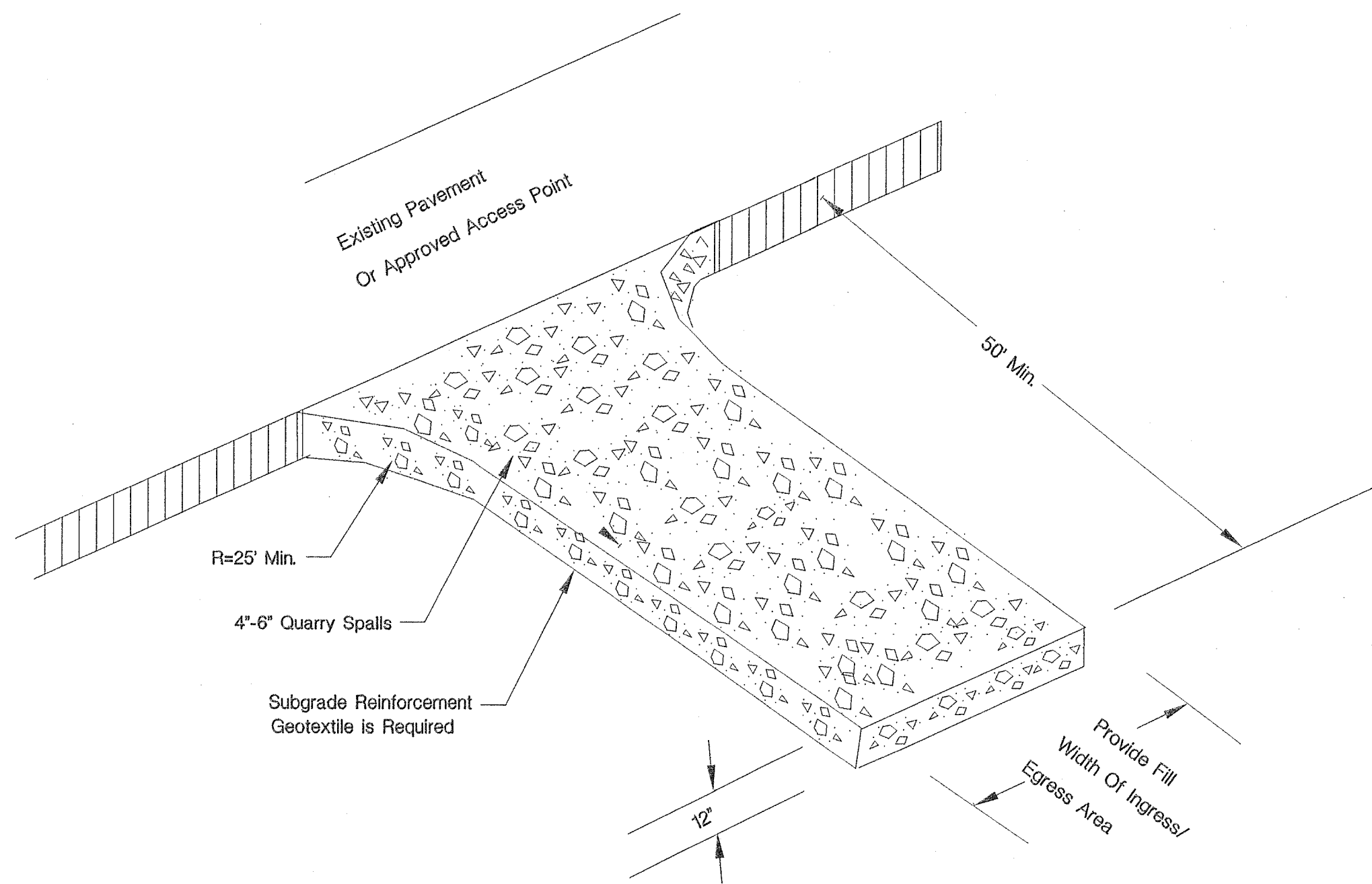
REGISTERED
MICHAEL P. ANDREWS
LANDSCAPE ARCHITECT
02/14/07
EXPIRES 02/28/07

CLARK CERTIFIED
LANDSCAPE ARCHITECT
DATE 1/6/09/06
DRAWN I.E.J. MPA
DESIGNED I.M.P.A.
CHECKED I.A.D.H.
PROJECT # WLP386901
SHEET TITLE
GRADING PLAN
SHEET NUMBER

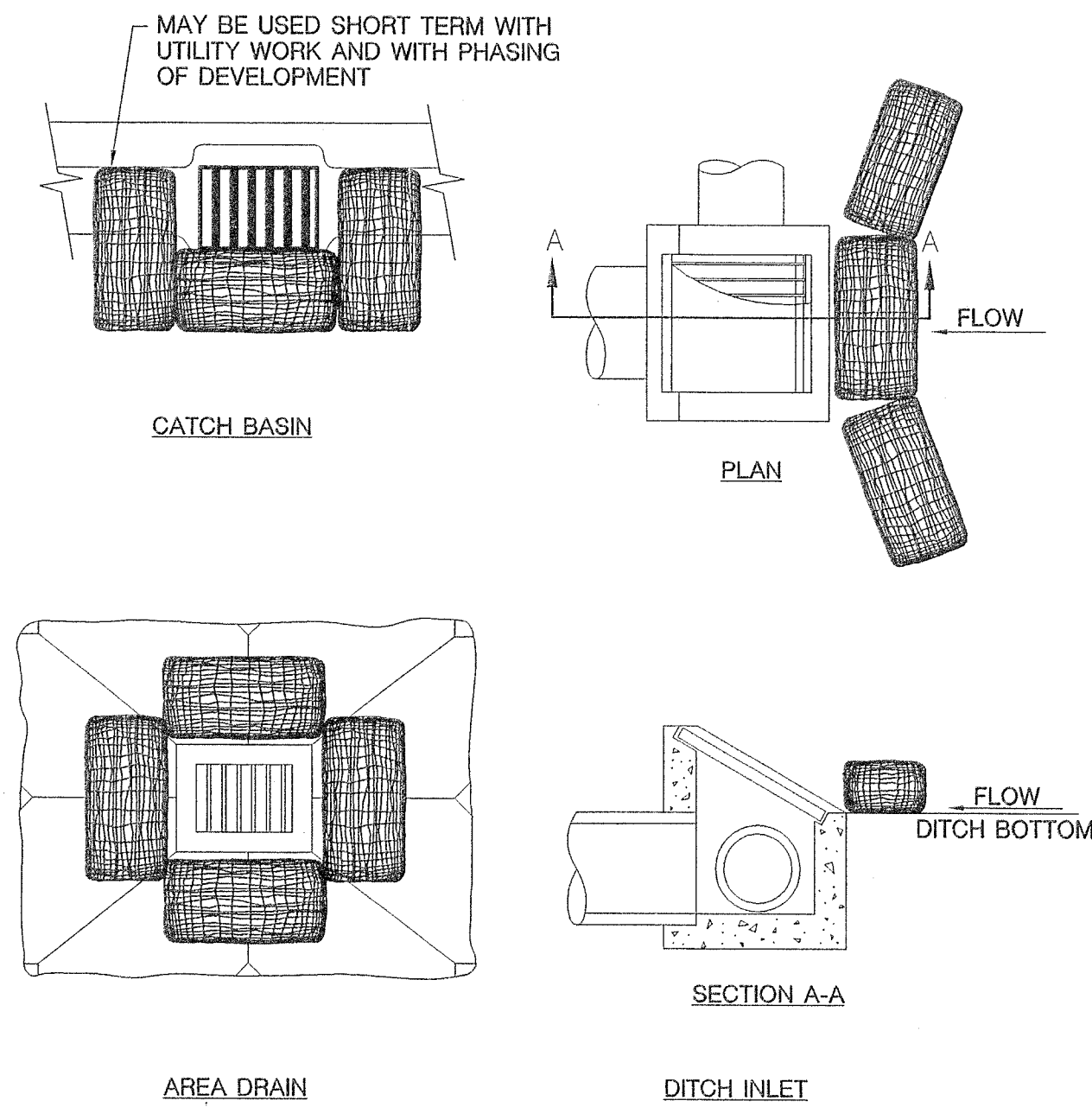
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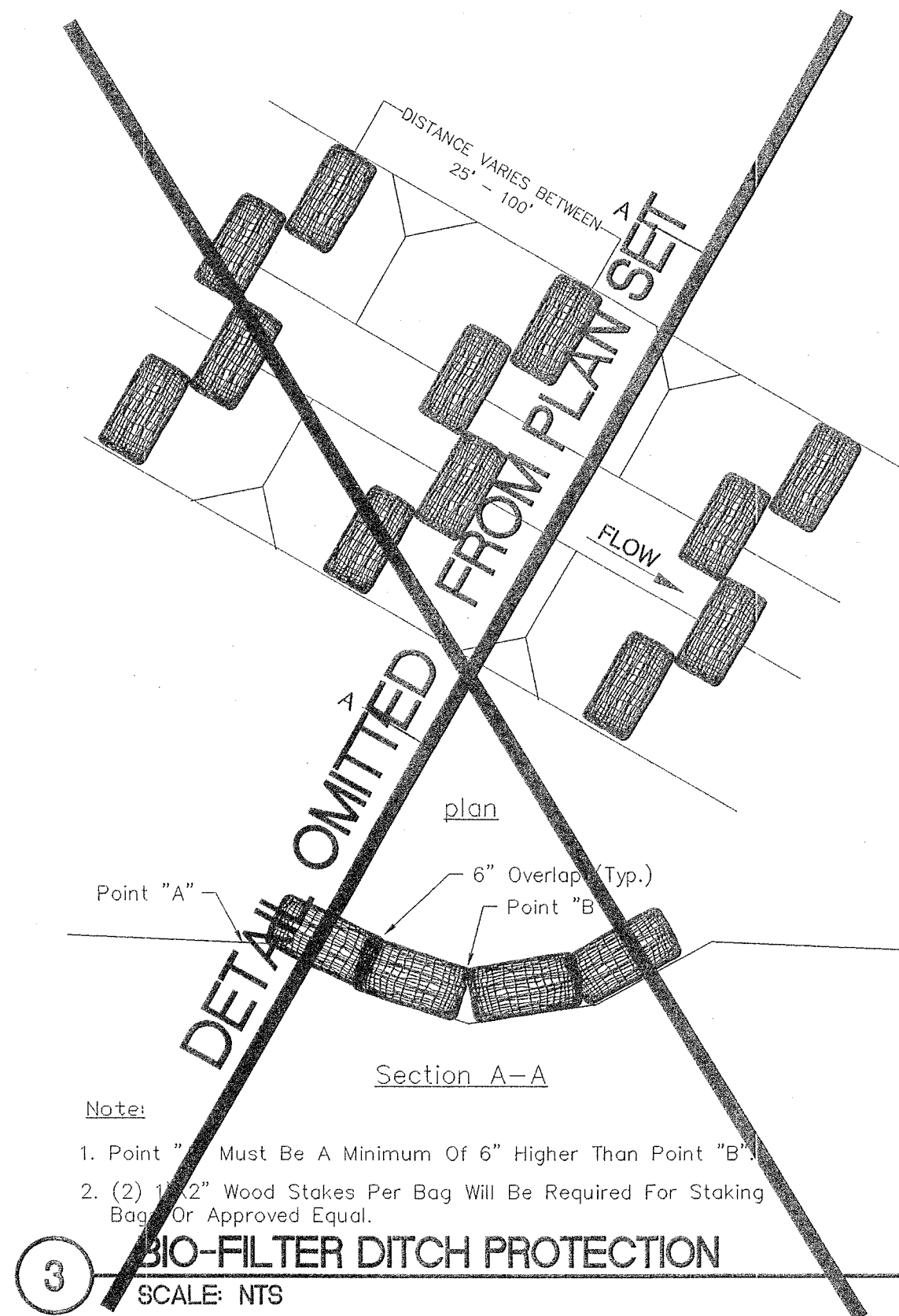
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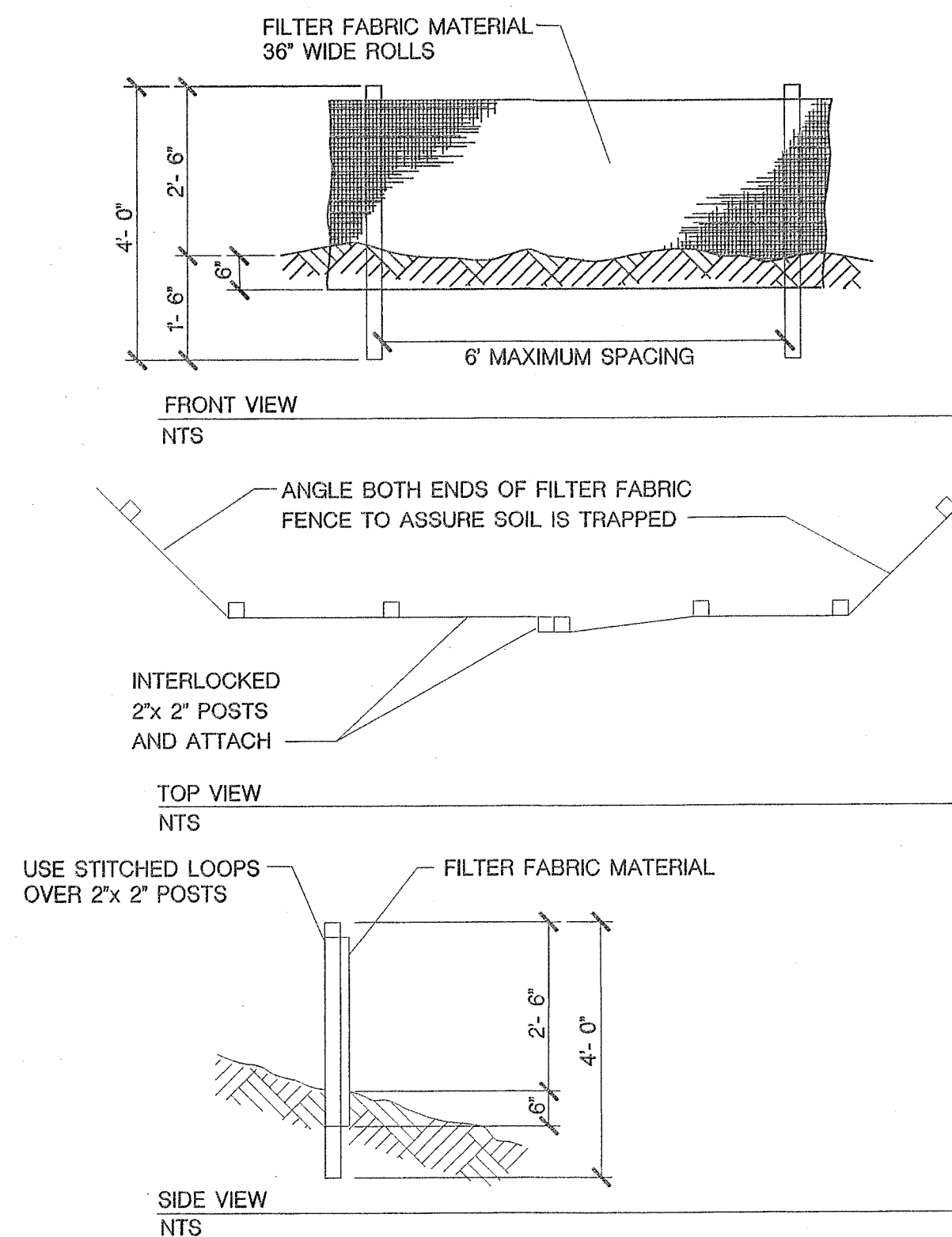
1 GRAVEL CONSTRUCTION ENTRANCE
SCALE: NTS



2 BIO-FILTER BAGS INLET PROTECTION
SCALE: NTS



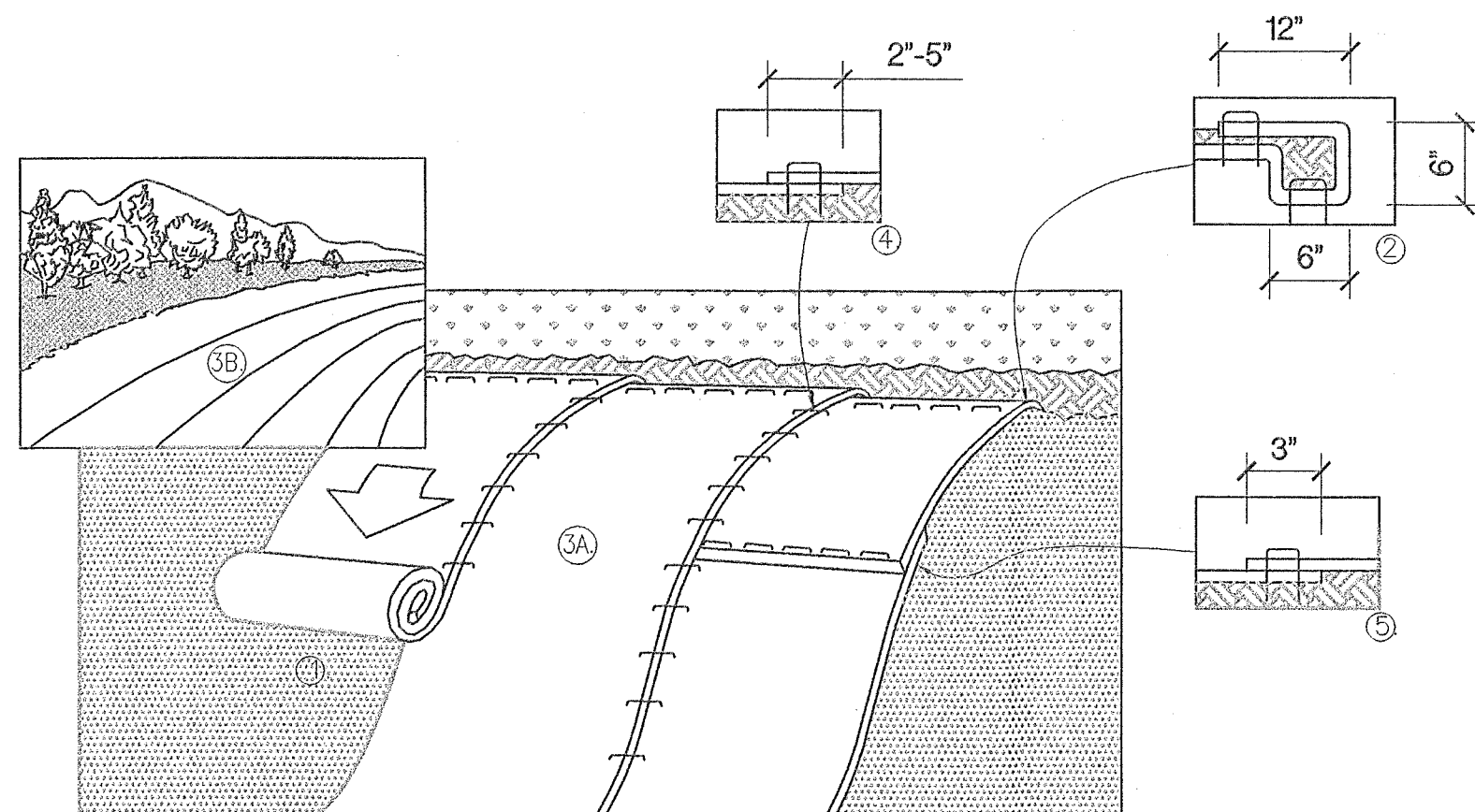
3 BIO-FILTER DITCH PROTECTION
SCALE: NTS



4 SEDIMENT FENCE
SCALE: NTS

SEDIMENT FENCE NOTES

1. 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, OR OVERLAP 2" X 2" POSTS AND ATTACH AS SHOWN.
2. 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 24 INCHES.
3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6 INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACK FILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
4. STANDARD OR HEAVY DUTY FILTER FABRIC FENCE SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2" X 2" POST INSTALLATION. STITCHED LOOPS SHALL BE INSTALLED ON THE UP HILL SIDE OF THE SLOPED AREA.
5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
6. FILTER FABRIC 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.

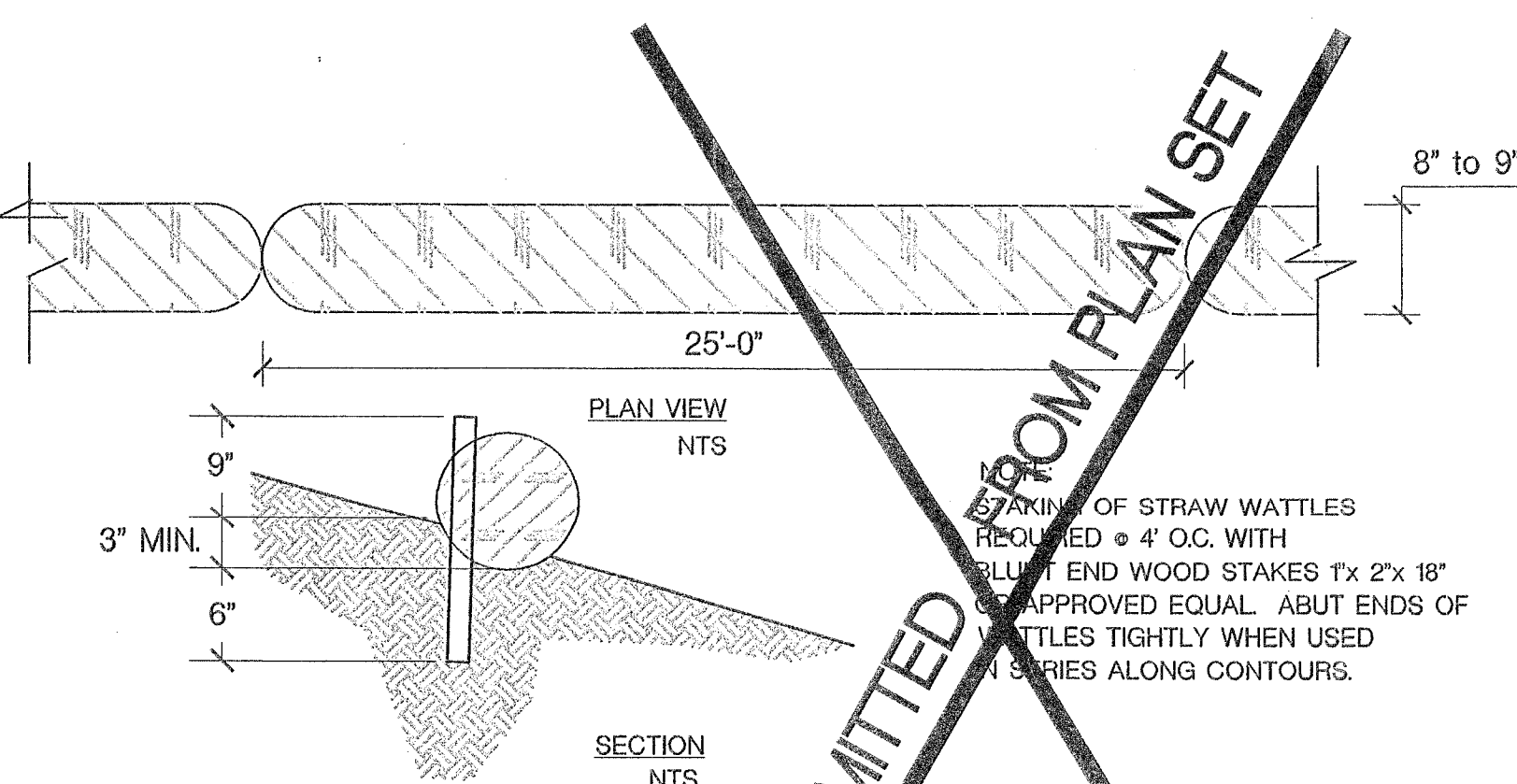


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" (10cm) OVERLAP.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH MINIMUM 6" (15cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

- NOTE:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
 2. INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

5 EROSION CONTROL BLANKET ON SLOPE
SCALE: NTS

6 BARRIER (TREE PROTECTION) FENCE
SCALE: NTS



7 STRAW WATTLE DETAIL
SCALE: NTS

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN

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: 2/20/08 BY: Dennis G. Weigand

EROSION CONTROL NOTES AND DETAILS
MIDHILL PARK
CITY OF WEST LINN
WEST LINN, OREGON

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REGISTERED
MICHAEL R. ANDREWS
LANDSCAPE ARCHITECT
02/14/97
EXPIRES 02/28/07

DATE: 1/6/09/06
DRAWN: EJC, MPA
DESIGNED: MPA
CHECKED: ADH
PROJECT #: WLP386901
SHEET TITLE: NOTES AND DETAILS
SHEET NUMBER: L401

100% CONSTRUCTION DOCUMENTS

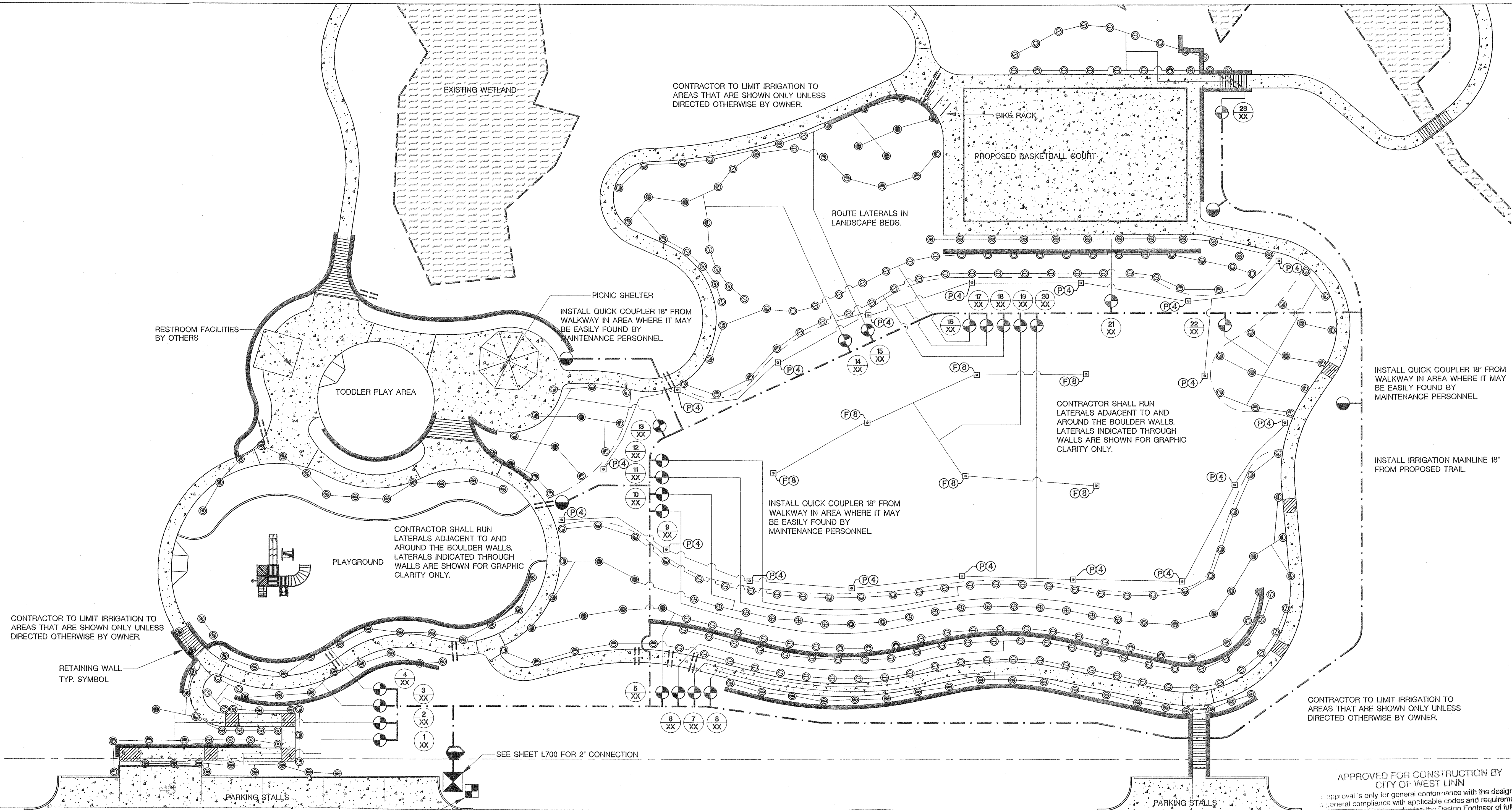
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LOT 01000

LOT 01100

LOT 01200



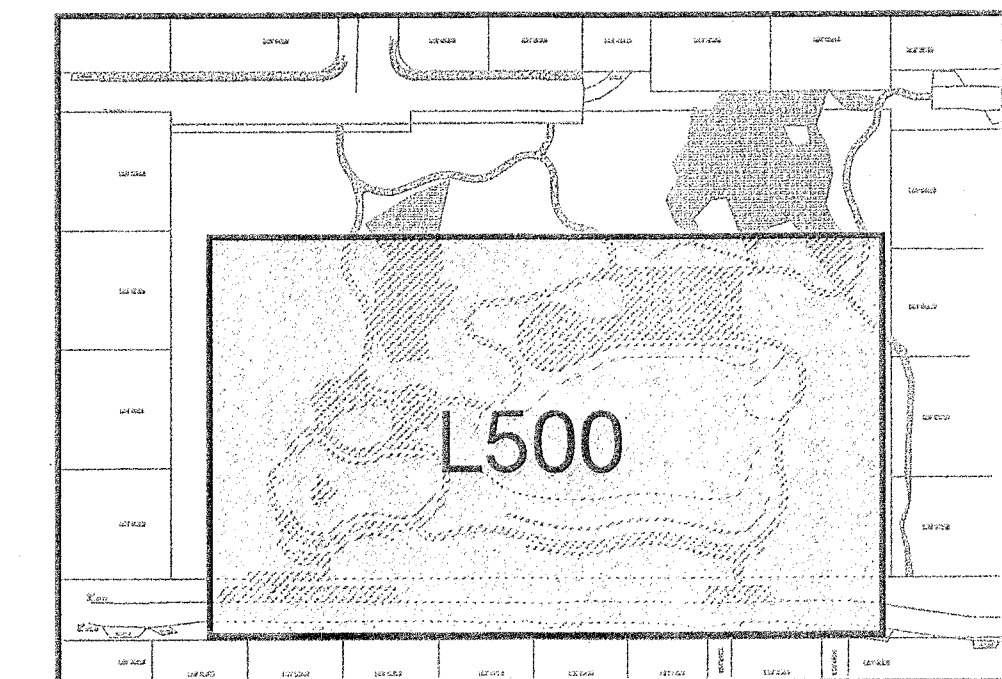
24 STATION AUTOMATIC IRRIGATION CONTROLLER. INSTALL CONTROLLER IN STAINLESS STEEL ENCLOSURE ON CONCRETE PAD PER MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH ELECTRICIAN, POWER TO CONTROLLER AND EXACT LOCATION. INSTALL CONDUIT FROM CONTROLLER TO MAINLINE IN LANDSCAPE AREA AND RAIN SENSOR.

WIRELESS RAIN SENSOR:
MOUNT RAIN SENSOR TO 6'-0" GALVANIZED POLE SET IN CONCRETE.
PLACE RAIN SENSOR ON TOP OF GALVANIZED POLE IN AREA WHERE IT MAY RECEIVE UNOBSTRUCTED RAINFALL.

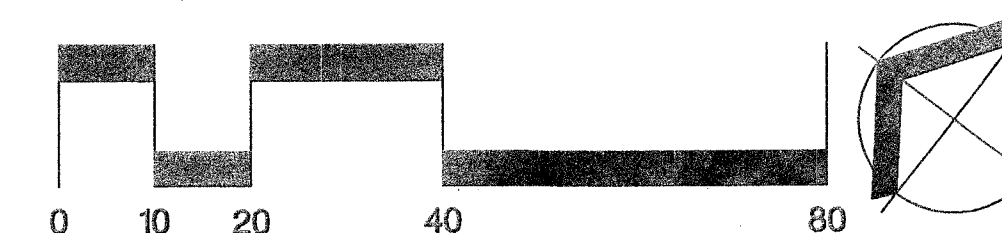
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CITY OF WEST LINN
Approval is only for general conformance with the design and general compliance with applicable codes and requirements. It shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings.
DATE 08/14/07 BY *Michael P. Andrews*
Dennis E. Wright

IRRIGATION MATERIALS AND LEGEND

- 2" IRRIGATION MAINLINE-SCH 40
- 3/4" LATERAL PIPE-CLASS 200
- 1" LATERAL PIPE-CLASS 200
- 1 1/4" LATERAL PIPE-CLASS 200
- 1 1/2" LATERAL PIPE-CLASS 200
- 2" LATERAL PIPE-CLASS 200
- ⊠ POINT OF CONNECTION
SEE DIAGRAM
- UNDERPAVEMENT SLEEVING. 4" DIAMETER UNLESS OTHERWISE INDICATED. TO BE INSTALLED BY LANDSCAPE CONTRACTOR AT DEPTH AS PER LOCAL CODE.
- 11 34 STATION NUMBER
GALLONS PER MINUTE
- ⊙ PRESSURE REGULATING ELECTRIC REMOTE CONTROL VALVE
FOR GPM 0-20 MFG: 1" RAINBIRD VALVE (MODEL: 100-PEB-PRS-D)
FOR GPM 20-50 MFG: 1 1/2" RAINBIRD VALVE (MODEL: 150-PEB-PRS-D)
- ⊙ QUICK COUPLING VALVE AND VALVE KEY
MFG: RAINBIRD (MODEL: 33DLRC)
- ⊠ RAIN SENSOR
MFG: RAINBIRD (MODEL: WRC)
- ⊠ 1 1/2" BACKFLOW PREVENTER
MFG: FEBCO (MODEL: 650)
- ⊠ AUTOMATIC CONTROLLER
MFG: RAINBIRD (MODEL: ESP-MC24-SS)
- ⊠ ISOLATION VALVE
MFG: CONBRACO (MODEL: 70-100-27)
- ⊠ MASTER VALVE, FLOW SENSOR AND RELAY CONTROL INSTALLED IN VALVE BOX
VALVE MFG: RAINBIRD (MODEL: 200-PEB-PRS-D)
FLOW SENSOR MFG: RAINBIRD (MODEL: FS-200-P)
RELAY CONTROL MFG: DATA INDUSTRIAL (MODEL: 800)
- ⊠ RAINBIRD FALCON 6504 FC ROTARY SPRINKLER • 40 PSI
NOZZLE TYPE: 8
- ⊠ RAINBIRD FALCON 6504 PC ROTARY SPRINKLER • 40 PSI
NOZZLE TYPE: 4
- ⊙ 1806 - 15" SPRAY 6" POPUP SPRINKLER, RAINBIRD SAM PRS-15 F, TQ, H, Q
- ⊙ 1806 - 12" SPRAY 6" POPUP SPRINKLER, RAINBIRD SAM PRS-12 F, TQ, H, Q
- ⊙ 1806 - 10" SPRAY 6" POPUP SPRINKLER, RAINBIRD SAM PRS-10 F, H, Q
- ⊙ 1806 - 8" SPRAY 6" POPUP SPRINKLER, RAINBIRD SAM PRS-8 F, H, Q
- ⊙ 1806 - SIDE/END SPRAY 6" POPUP SPRINKLER, RAINBIRD SAM PRS-SST/EST
- ⊙ 1812 - 15" SPRAY 12" POPUP SPRINKLER, RAINBIRD SAM PRS-15 F, TQ, H, Q
- ⊙ 1812 - 12" SPRAY 12" POPUP SPRINKLER, RAINBIRD SAM PRS-12 F, TQ, H, Q
- ⊙ 1812 - 10" SPRAY 12" POPUP SPRINKLER, RAINBIRD SAM PRS-10 F, H, Q
- ⊙ 1812 - 8" SPRAY 12" POPUP SPRINKLER, RAINBIRD SAM PRS-8 F, H, Q
- ⊙ 1812 - SIDE/END SPRAY 12" POPUP SPRINKLER, RAINBIRD SAM PRS-SST/EST



SITE REFERENCE MAP
NOT TO SCALE



THIS SHEET IS FOR GENERAL REFERENCE ONLY.
THE IRRIGATION SYSTEM IS TO BE DESIGN BUILD. THIS SHEET
WAS CREATED PRIOR TO SITE PLAN CHANGES AFTER
THE COMPLETION OF THE IRRIGATION SYSTEM DESIGN.

4/18/06

DESIGN
5415 SW Westgate Dr. Ste 100 Portland, OR 97221
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LANDSCAPE IRRIGATION PLAN
MIDHILL PARK
CITY OF WEST LINN
WEST LINN, OREGON

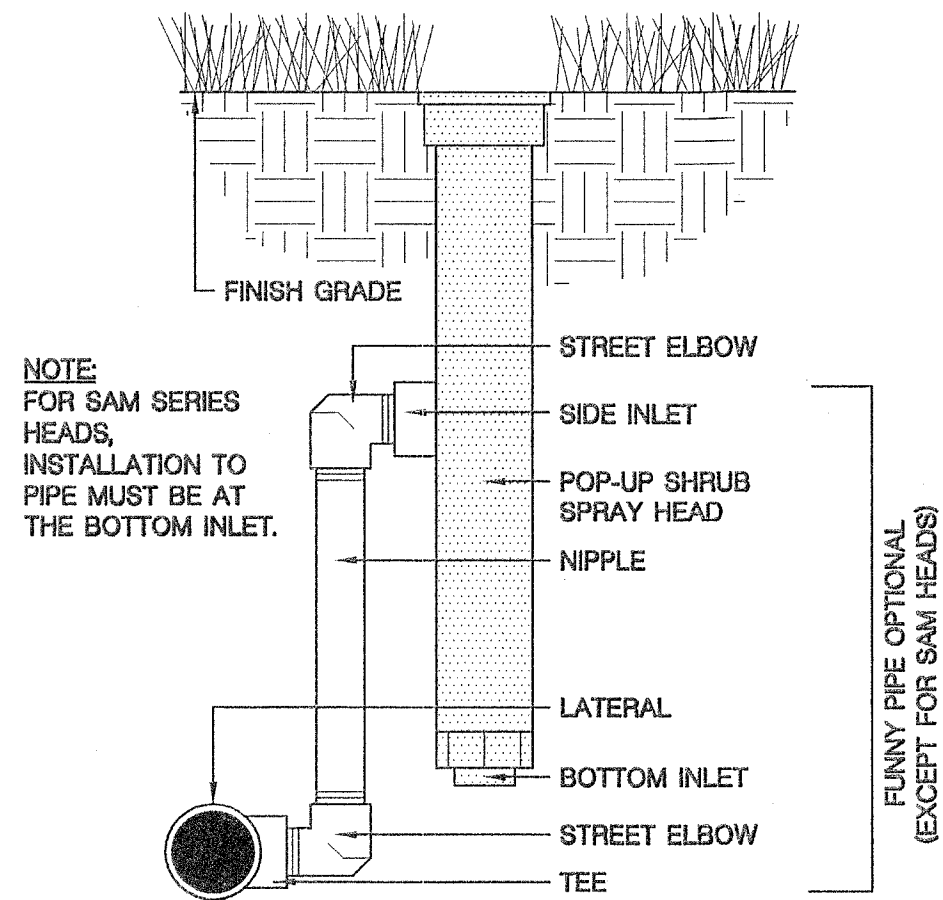
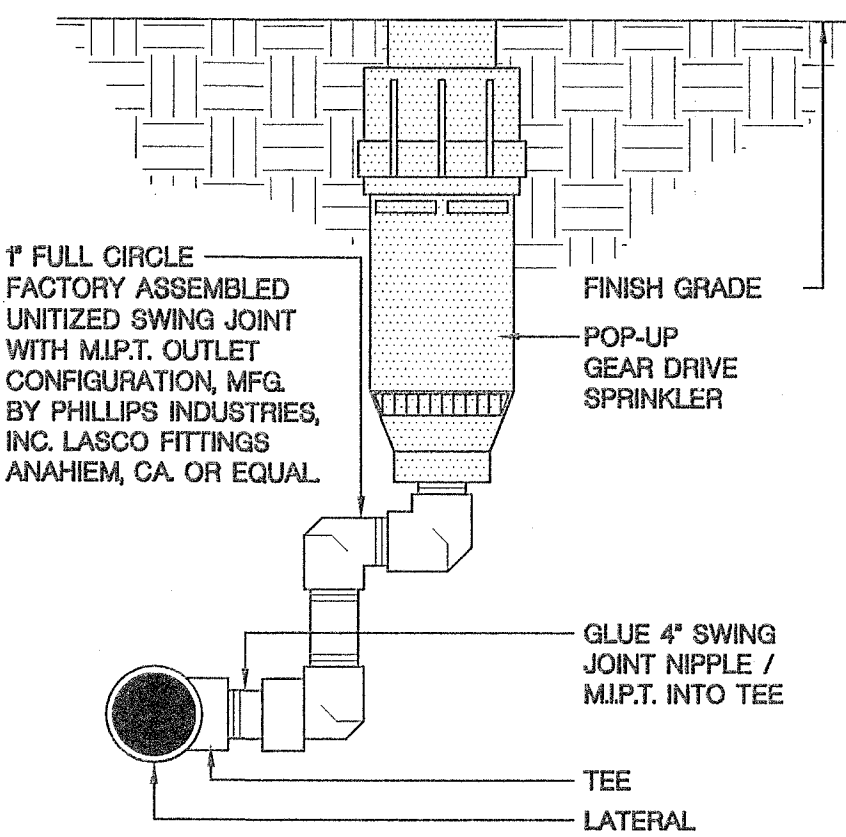
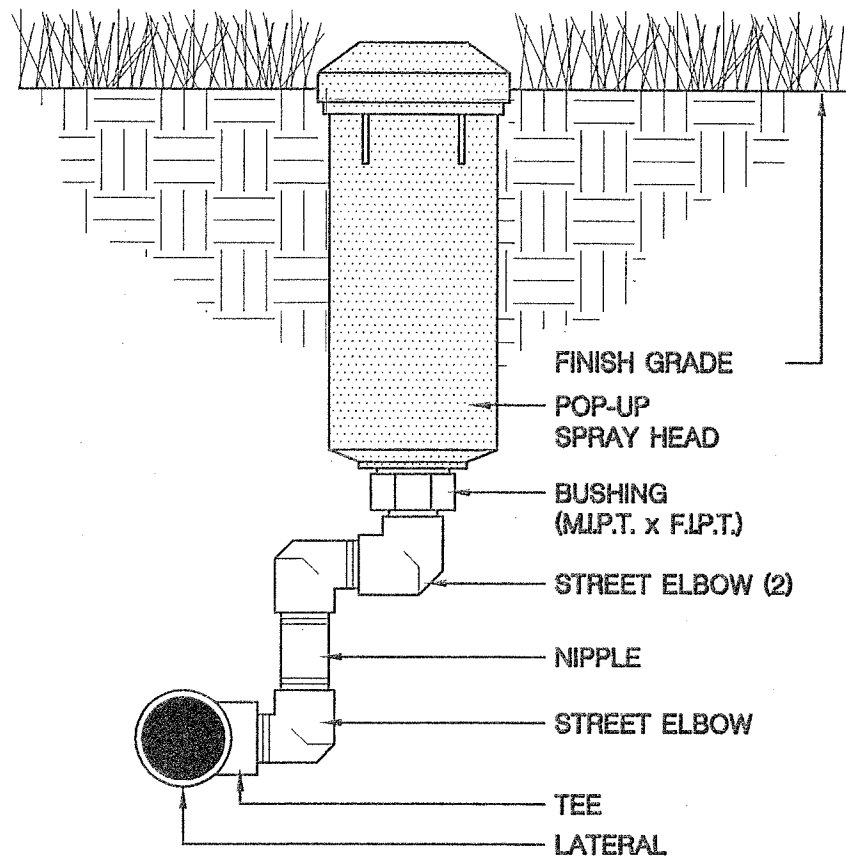
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362
MICHAEL P. ANDREWS
LANDSCAPE ARCHITECT
08/14/07
EXPIRES 02/28/07

DATE 16/09/06
DRAWN EJC, MPA
DESIGNED MPA
CHECKED ADH
PROJECT # WLP386901
SHEET TITLE
IRRIGATION PLAN
SHEET NUMBER

L500

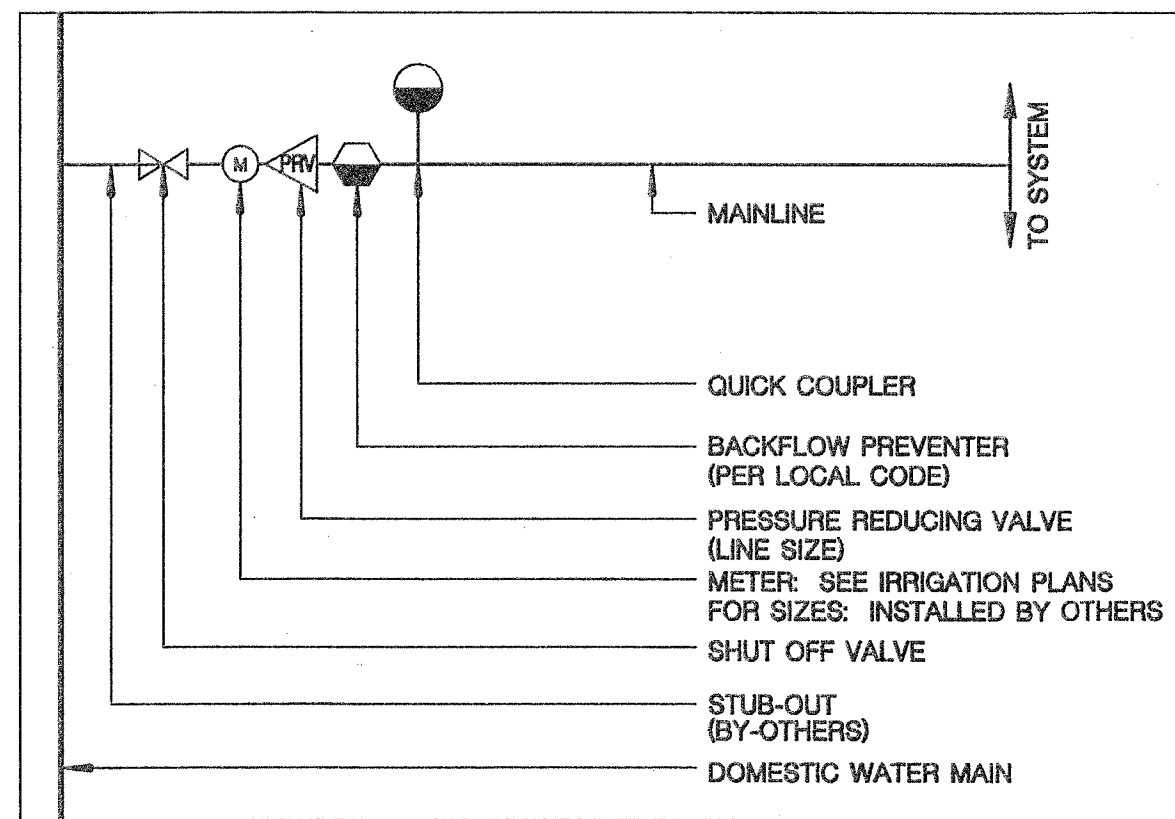
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1 MEDIUM RANGE POP UP ROTARY SPRINKLER

2 LONG RANGE POP UP ROTARY SPRINKLER

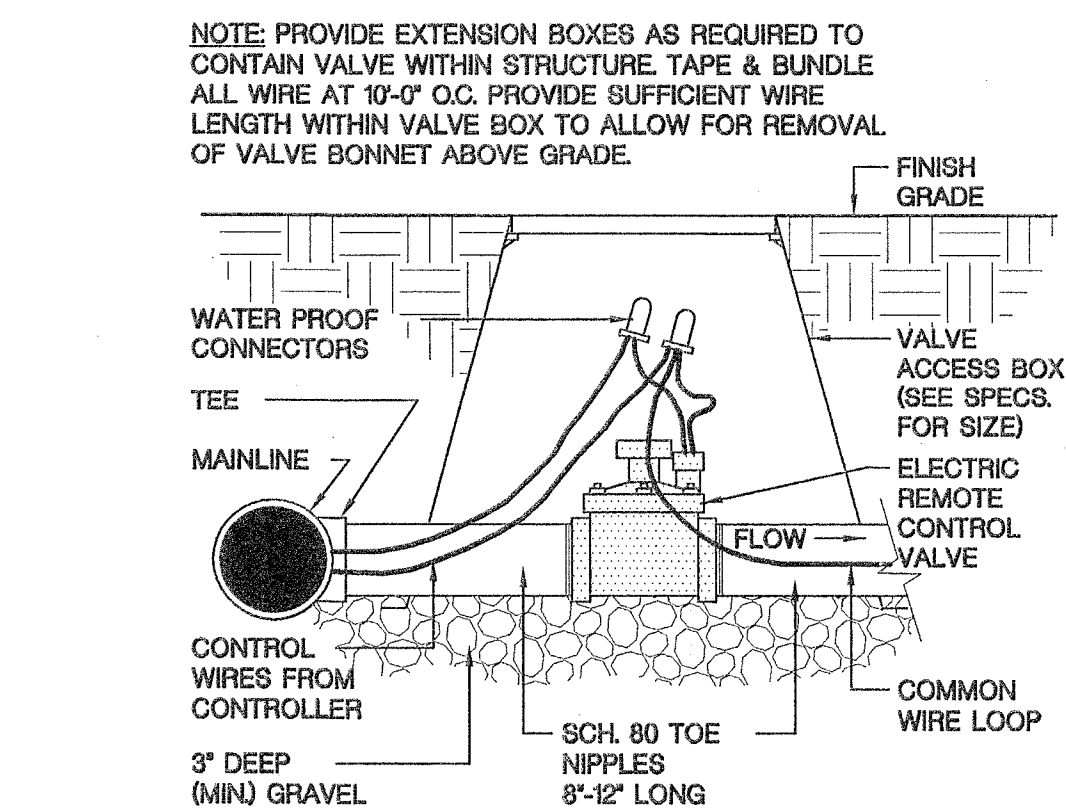
3 6" AND 12" POP-UP SPRINKLER HEAD



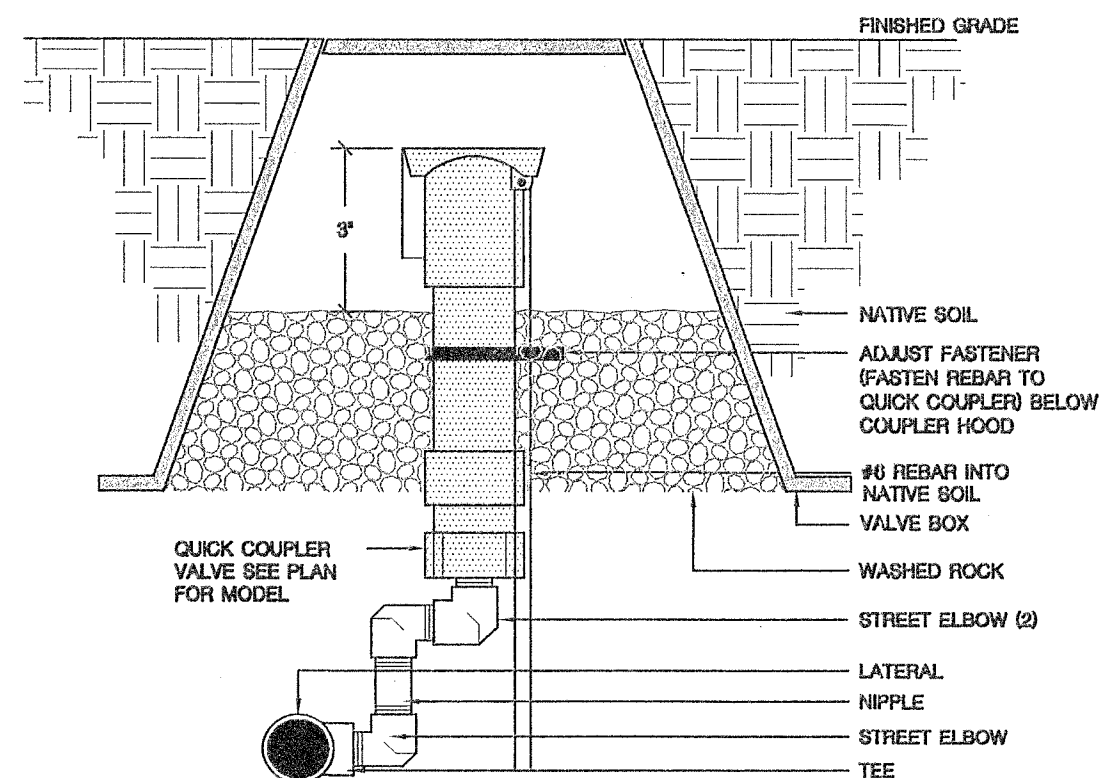
4 POINT OF CONNECTION DIAGRAM

N.T.S.

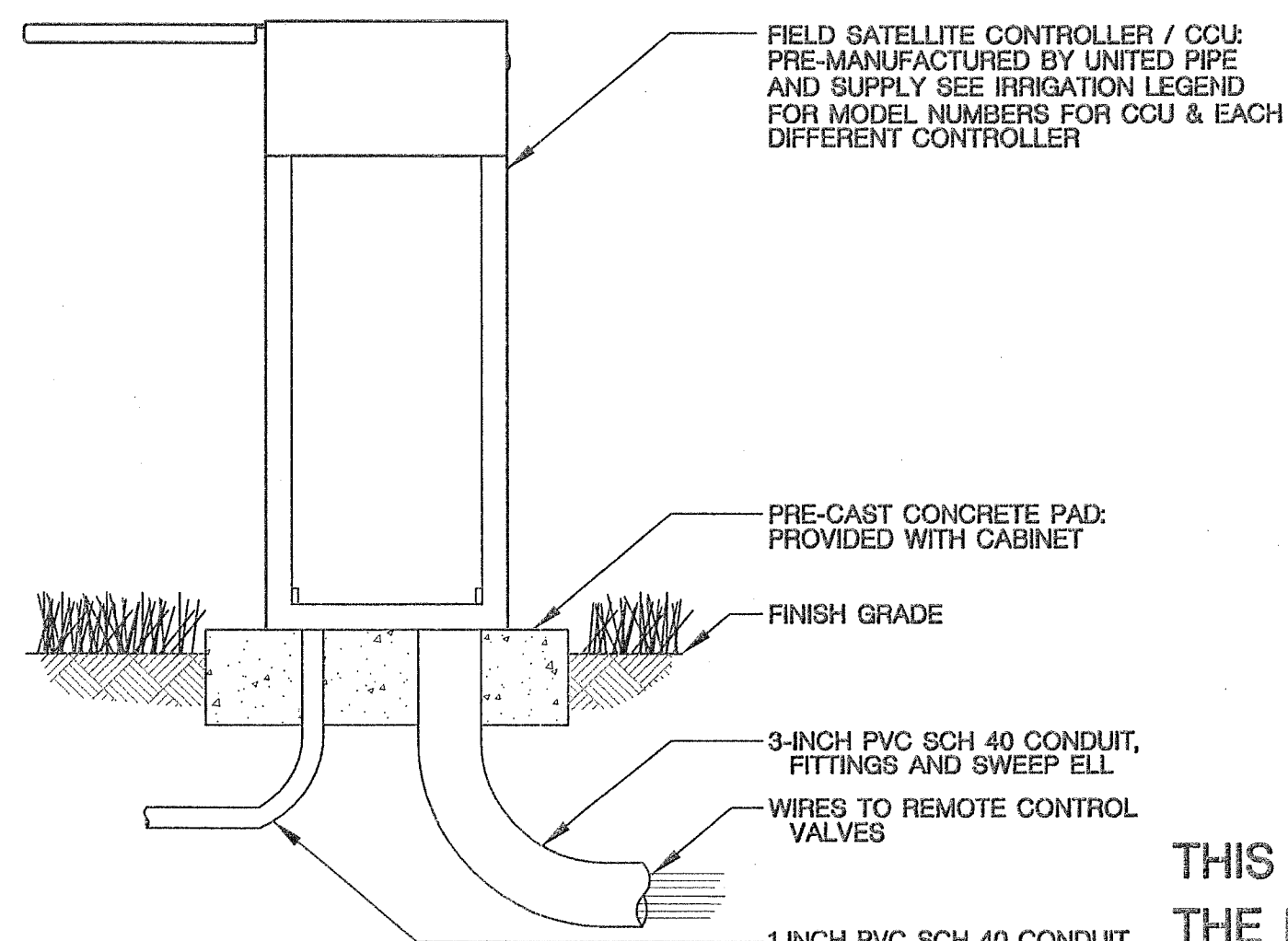
5 VALVE INSTALLATION



7 QUICK COUPLER VALVE



8 STAINLESS STEEL PEDESTAL CONTROLLER



NOTE: CONSULT PROJECT LANDSCAPE ARCHITECT ON CONTROLLER PLACEMENT PRIOR TO FOOTING EXCAVATION

GENERAL NOTES: IRRIGATION PLAN

- CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLAN OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REPORT ALL DAMAGES TO EXISTING CONDITIONS OR INCONSISTENCIES WITH PLANS TO LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
- CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH INSTALLATION OF LANDSCAPING, WALL CONSTRUCTION AND DRAINAGE SYSTEMS. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH OTHER SUBCONTRACTORS FOR INSTALLATION OF UNDERGROUND SLEEVING.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS AND ALL LAWN AREAS.
- LAYOUT OF THE SYSTEM AS SHOWN ON DRAWINGS IS DIAGRAMMATIC. IRRIGATION LINES SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. IRRIGATION HEADS AND PIPES ARE TO BE PLACED WITHIN LANDSCAPED AREAS WITH THEIR LOCATIONS MODIFIED AS REQUIRED TO AVOID PLANT MATERIALS, UTILITIES AND OTHER OBSTRUCTIONS.
- PIPE UP TO 1-1/2" DIAMETER MAY BE PULLED WITH A VIBRATORY PLOW EQUAL TO A DITCH WITCH 255. PIPING FROM 2" TO 2-1/2" DIAMETER MAY BE PULLED WITH A MACHINE LARGER OR EQUAL TO A DITCH WITCH R-40. TRENCH ALL PIPE OVER 2-1/2" DIAMETER. CONTRACTOR HAS THE OPTION TO TRENCH ALL PIPE.
- INSTALL TRACING WIRE OVER ALL MAINLINE PIPE AND CONTROLLER WIRE (INCLUDING) WIRE WHICH IS NOT INSTALLED IN TRENCH WITH PIPE. WHENEVER POSSIBLE ROUTE CONTROL WIRE UNDER MAINLINE PIPE.
- INSTALL EQUIPMENT NO CLOSER THAN 2" FROM BACK OF CURB WHERE APPROPRIATE.
- FIELD ADJUST SPRINKLER HEAD RADIUS AND ARC FOR MAXIMUM COVERAGE WITHOUT OVERSPRAYING PAVED SURFACES.
- CONTRACTOR TO PROVIDE OWNER WITH KEYS AND HOSE SWIVELS FOR EACH QUICK COUPLER VALVE.
- CONTRACTOR SHALL PROVIDE A REPRODUCIBLE AS-BUILT IRRIGATION PLAN. PLAN SHALL BE PREPARED, UPON FINAL ACCEPTANCE OF IRRIGATION INSTALLATION, ON A REPRODUCIBLE SITE PLAN (PROVIDED TO CONTRACTOR BY LANDSCAPE ARCHITECT). AS-BUILT PLAN SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL PLACE A COLOR CODED ZONE MAP OF THE IRRIGATION SYSTEM INSIDE OF IRRIGATION CONTROLLER AFTER MAP HAS BEEN APPROVED BY OWNER.
- CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL PRODUCT SUBSTITUTIONS BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. PRODUCTS, MANUFACTURERS, AND MODELS NOT IN COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE WITHOUT PRIOR WRITTEN APPROVAL. AT NO COST TO THE OWNER THESE ITEMS MAY BE REQUIRED TO BE REPLACED WITH PRODUCTS THAT ARE IN COMPLIANCE WITH THE MANUFACTURERS AND MODELS ON THE IRRIGATION PLAN.
- NUMBER INSIDE ROTOR HEAD SYMBOL INDICATES NOZZLE TYPE. LETTER INDICATES THE APPROXIMATE DEGREE OF ARC.
- ELECTRICIAN TO PROVIDE AND INSTALL ELECTRICAL CONDUITS AND WIRING TO PROVIDE POWER FROM ELECTRICAL BRANCH PANEL TO THE IRRIGATION CONTROL EQUIPMENT UNIT, COORDINATE WITH LANDSCAPE CONTRACTOR.
- PROVIDE AND INSTALL CONDUIT SWEEPS AND STRAIGHT SECTIONS FROM IRRIGATION TRENCHES TO THE CONTROLLER OR CCU. ROUTE CONTROL WIRE AND COMMUNICATION CABLE THROUGH CONDUITS INTO CONTROLLER CABINET. NEATLY CONNECT WIRES TO TERMINAL STRIPS PROVIDED IN THE CONTROLLER CABINET.
- SET AND UTILIZE CONTROLLER TO WATER NEW PLANTINGS FOR THE DURATION OF THE PROJECT UNTIL FINAL ACCEPTANCE.
- PROTECT IRRIGATION CONTROL EQUIPMENT UNIT FROM DAMAGE AFTER INSTALLATION AND UNTIL FINAL ACCEPTANCE. THE UNIT SHALL BE IN BRAND NEW CONDITION WHEN FULL OPERATION OF THE SYSTEM IS TURNED OVER TO THE OWNER AFTER FINAL ACCEPTANCE. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, REPLACE ALL OR PART OF THE UNIT THAT IS DAMAGED AND UNACCEPTABLE TO THE OWNER.
- LOCATE VALVE BOXES WITHIN SHRUB BEDS WHENEVER POSSIBLE. ONE VALVE PER VALVE BOX.
- LOCATE VALVE MANIFOLDS IN CLOSE PROXIMITY FOR EASE OF MAINTENANCE, BUT NOT CLOSER THAN 4'-0" BETWEEN VALVE BOXES.
- THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE AT A MINIMUM FLOW OF 40 GPM AND A MINIMUM PRESSURE OF 60 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE. IF THE PRESSURE IS LESS THAN 60 PSI, OR GREATER THAN 100 PSI, NOTIFY THE LANDSCAPE ARCHITECT AND OWNERS REPRESENTATIVE IN WRITING, PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE IRRIGATION SYSTEM.
- AVAILABLE STATIC PRESSURE WAS CONFIRMED AT 55 PSI (ON 10/14/04 BY WEST LINN WATER DEPARTMENT).

N.T.S.

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REGISTERED
302
MICHAEL P. ANDREWS
0-000
OREGON
02/14/97
EXPIRES 02/28/07

CLARB CERTIFIED
LANDSCAPE ARCHITECT

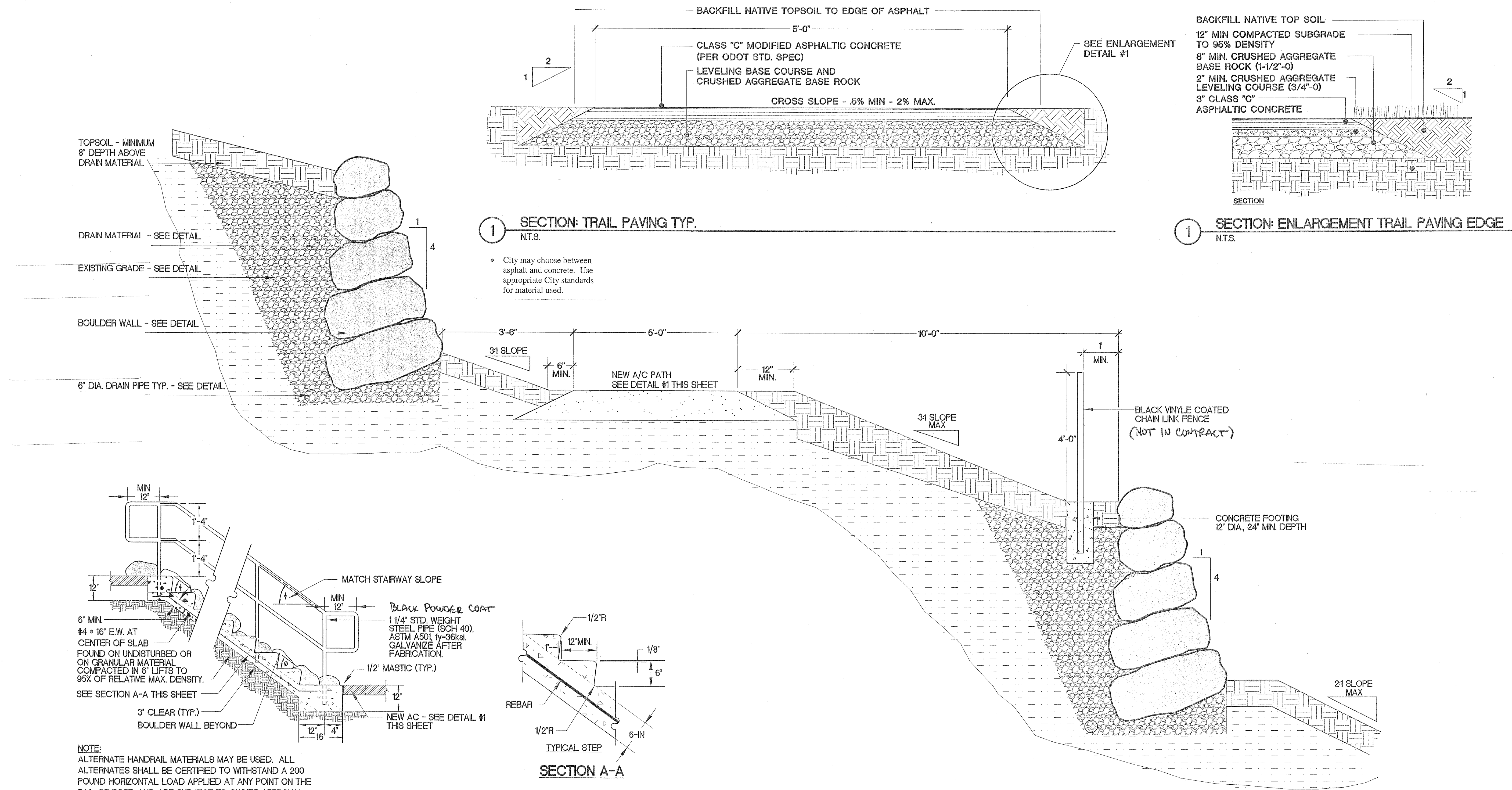
DATE 1/6/09/06
DRAWN I.E.J., MPA
DESIGNED I.M.P.A.
CHECKED J.A.D.H.
PROJECT # I.W.P.3869.01

SHEET TITLE
NOTES AND DETAILS
SHEET NUMBER

L501

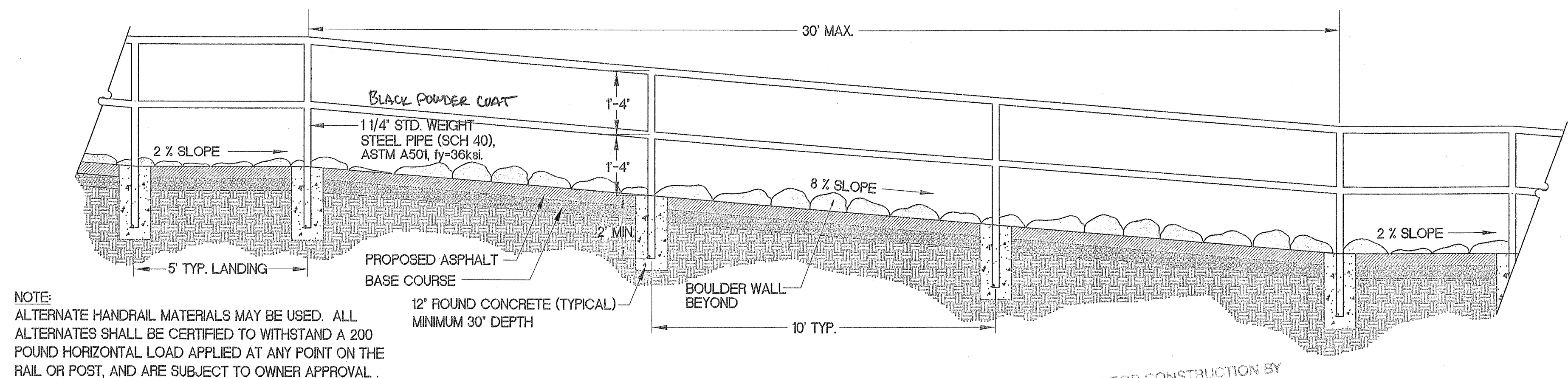
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THIS SHEET IS FOR GENERAL REFERENCE ONLY.
THE IRRIGATION SYSTEM IS TO BE DESIGN BUILD. THIS SHEET
WAS CREATED PRIOR TO SITE PLAN CHANGES AFTER
THE COMPLETION OF THE IRRIGATION SYSTEM DESIGN.
4/18/06



2 SECTION: STAIR WITH HANDRAIL
SCALE: NOT TO SCALE

3 SECTION: BOULDER WALLS, FENCE AND PATH
SCALE: NOT TO SCALE



4 SECTION: HANDRAIL AND RAMP DETAIL
SCALE: NOT TO SCALE

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
[Signature]
DATE 2/14/07

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SITE DETAILS
MIDHILL PARK
CITY OF WEST LINN
WEST LINN, OREGON

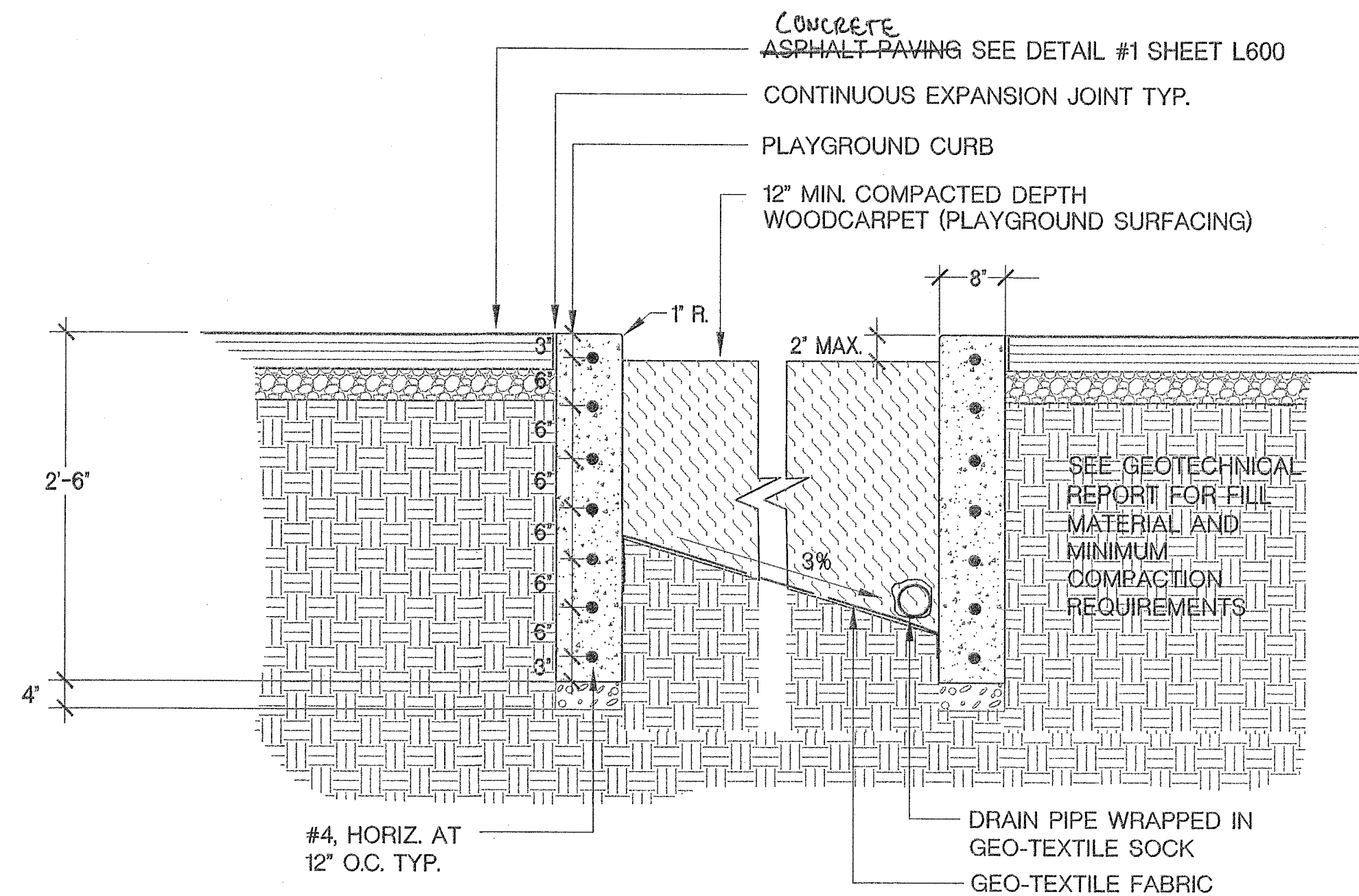
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Michael P. Andrews
MICHAEL P. ANDREWS
LANDSCAPE ARCHITECT
OREGON
02/14/07
EXPIRES 02/28/07

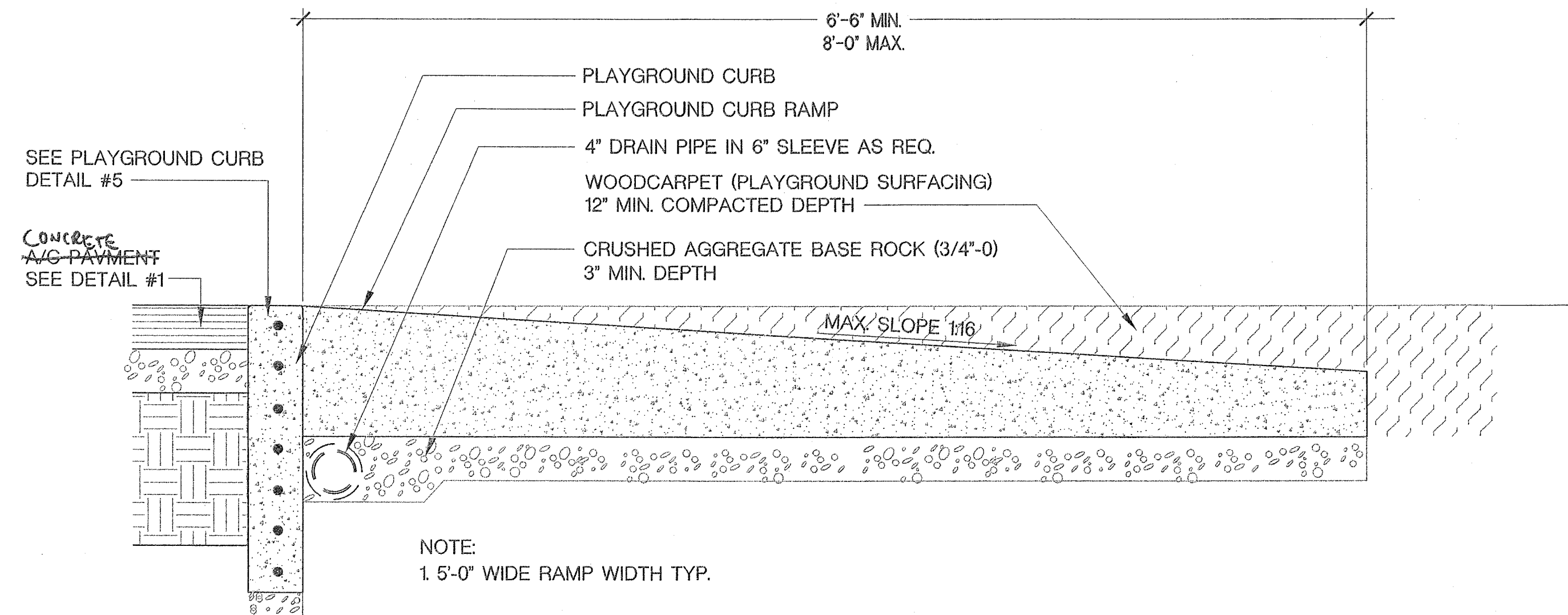
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LANDSCAPE ARCHITECT

DATE 1/6/09/06
DRAWN EJC, MPA
DESIGNED MPA
CHECKED JADH
PROJECT # WLP386901

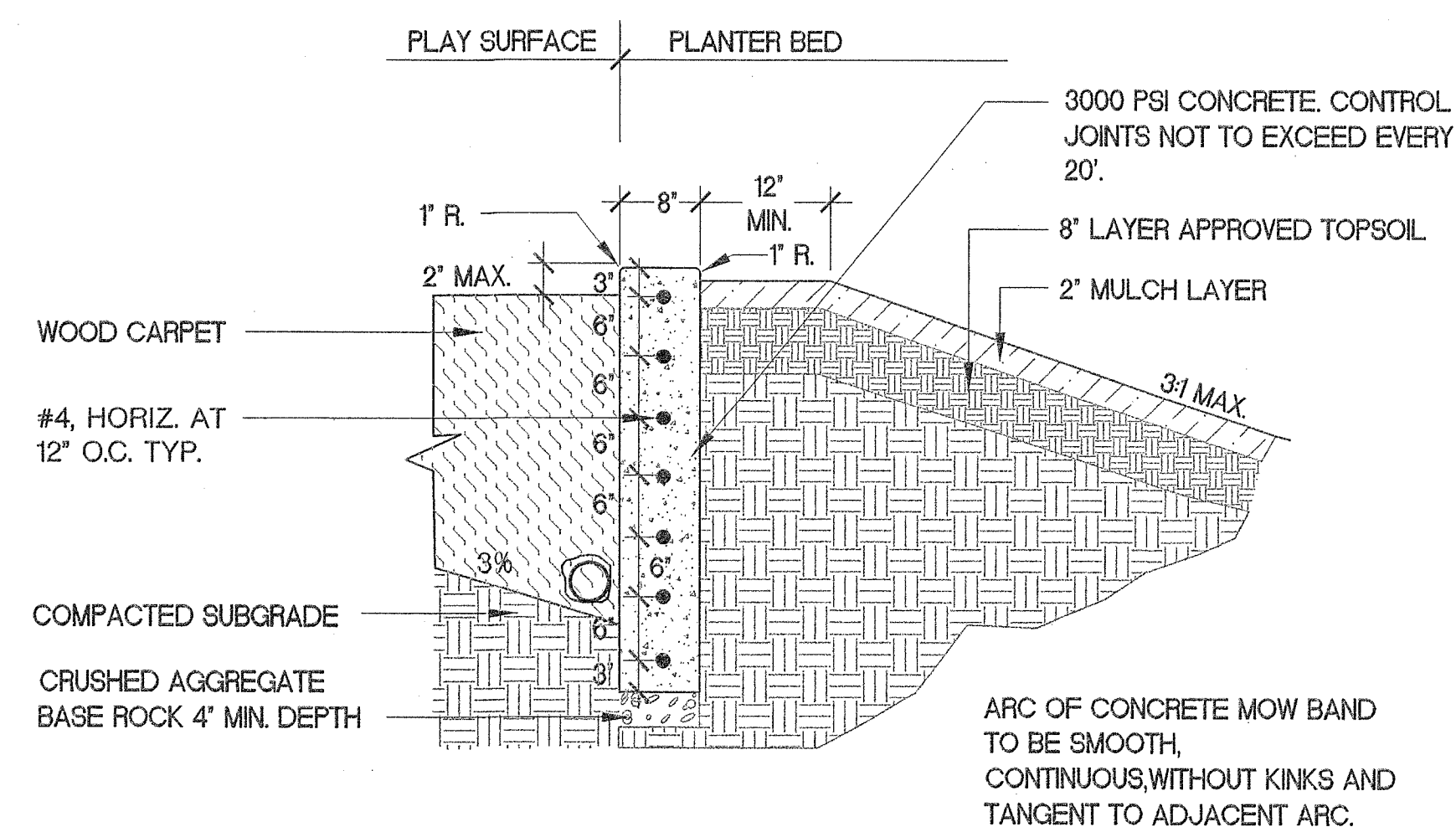
SHEET TITLE
SITE DETAILS
SHEET NUMBER
L600



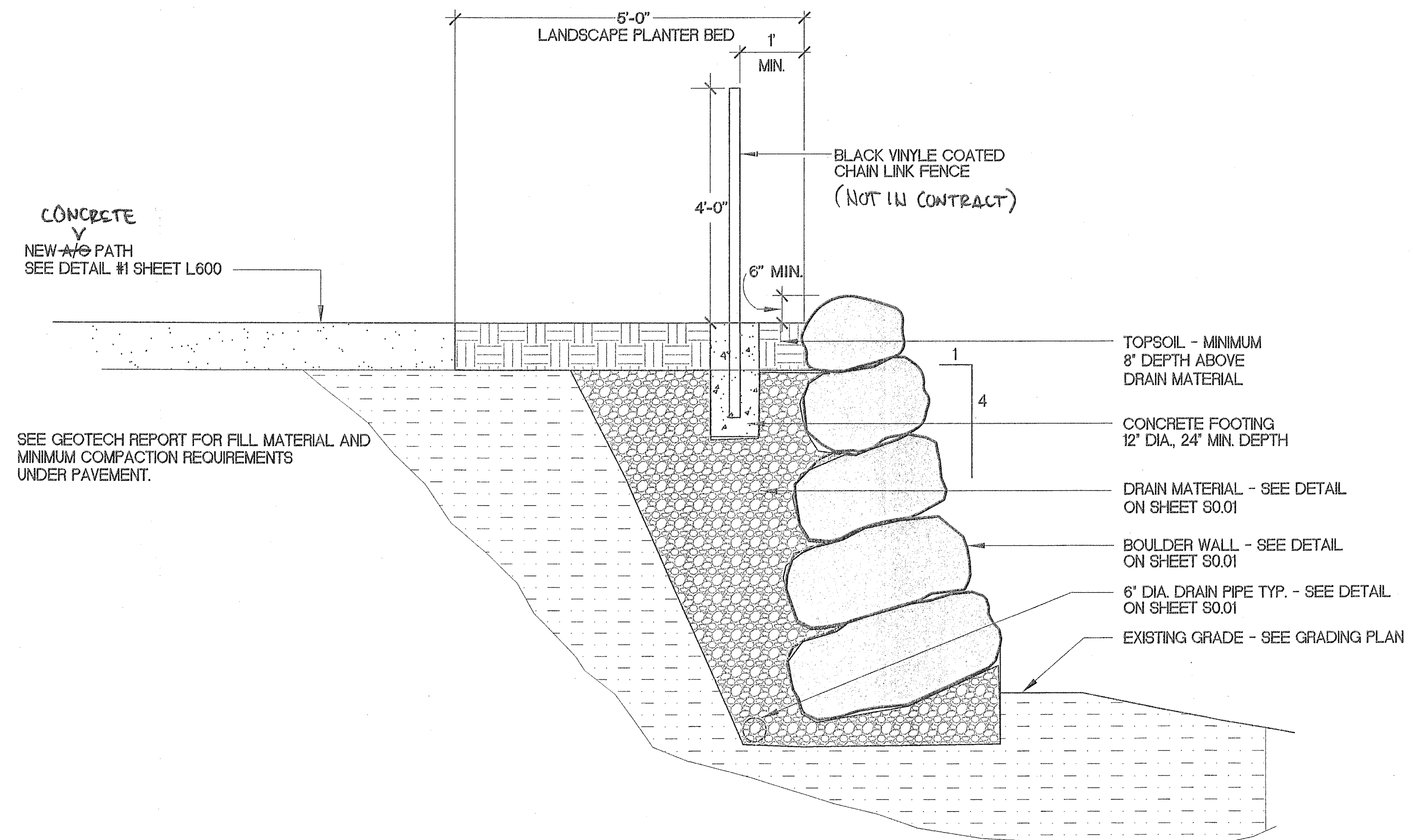
5 SECTION: PLAYGROUND CURB
SCALE: N.T.S.



6 SECTION: PLAYGROUND CURB RAMP
SCALE: N.T.S.



7 SECTION: CONCRETE MOW BAND
SCALE: N.T.S.



8 SECTION: FENCE AND BOULDER WALL AT PLAYGROUND
SCALE: N.T.S.

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN

DATE: JUL 20 2008 BY: Dennis G. Weigand

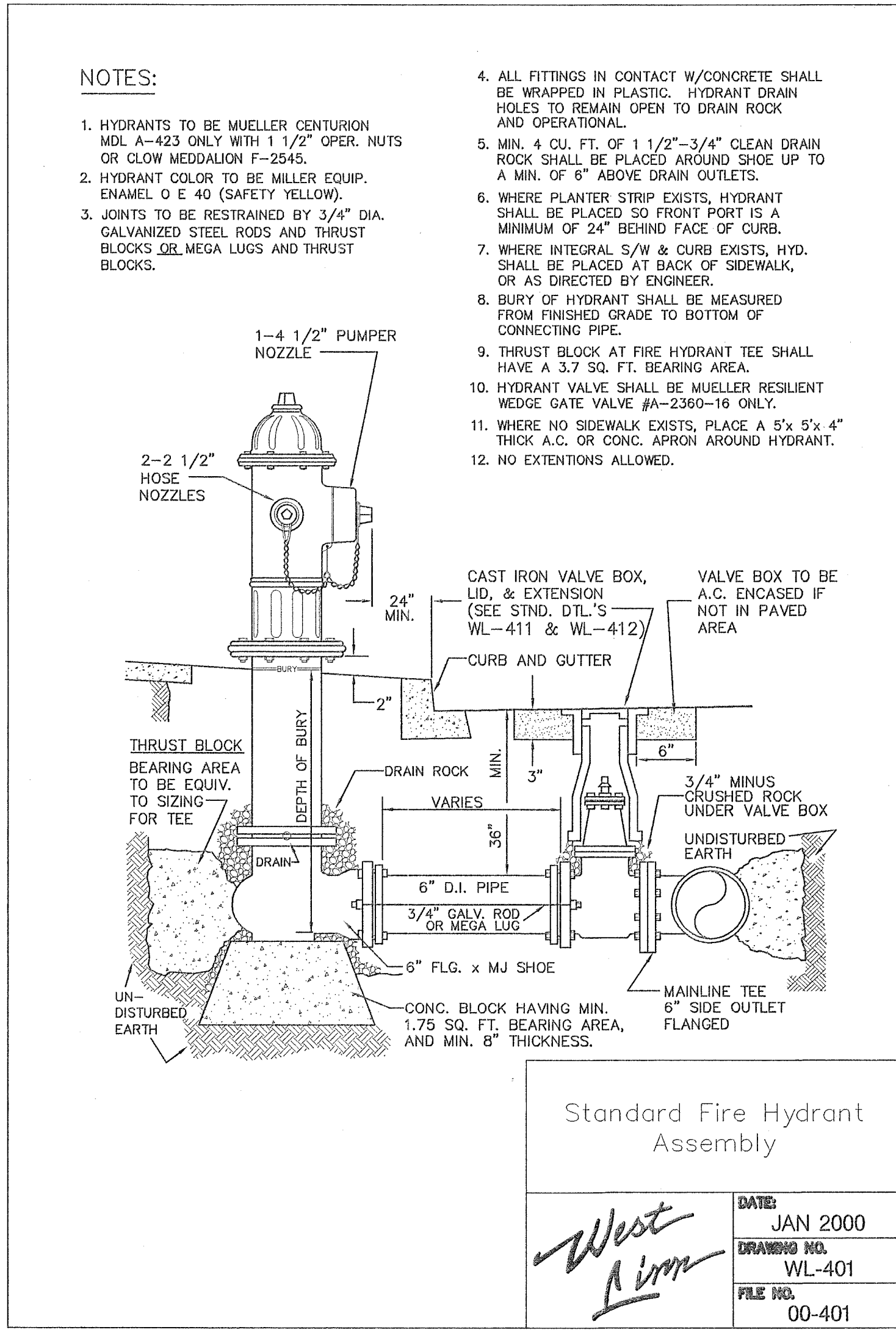
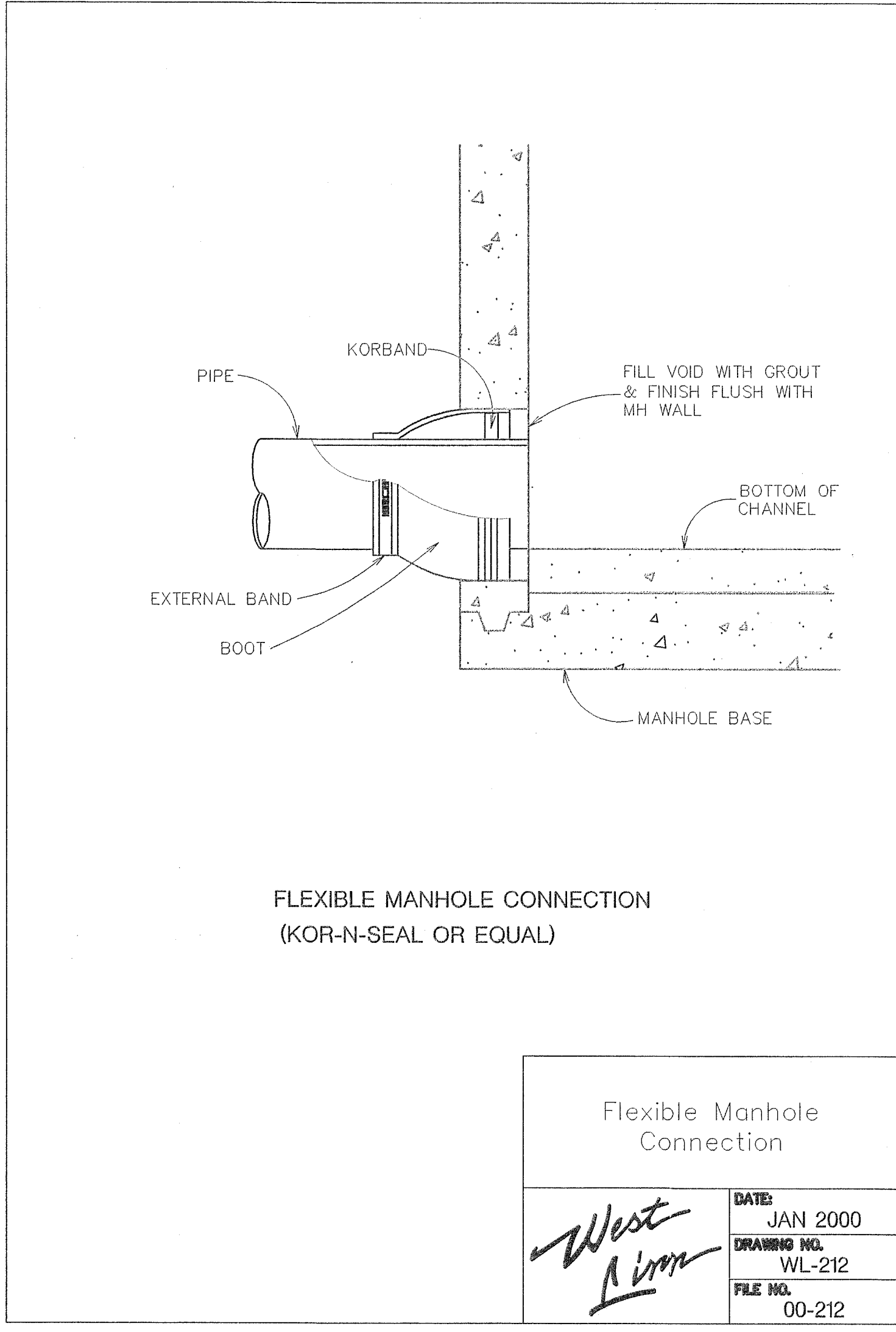
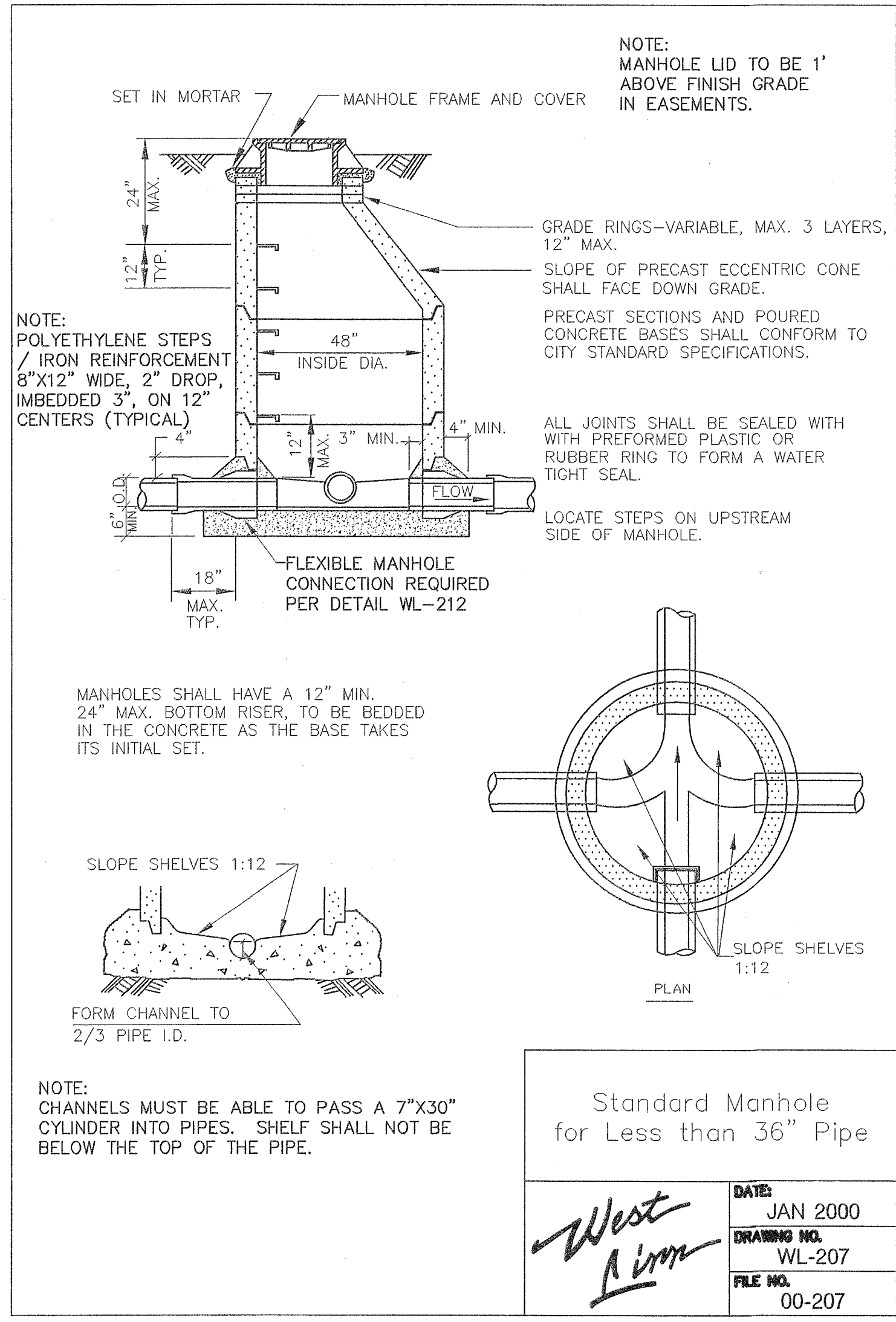
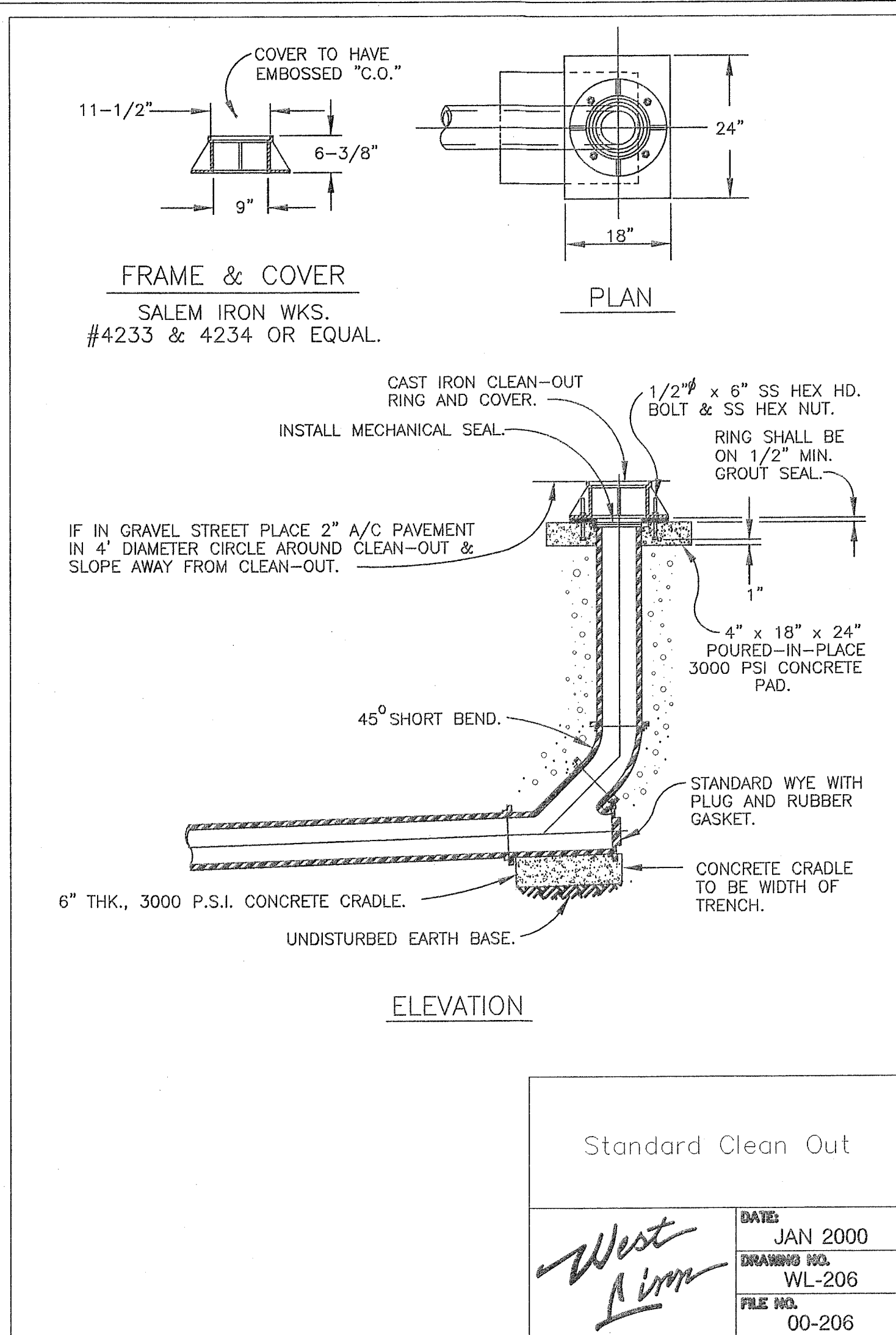
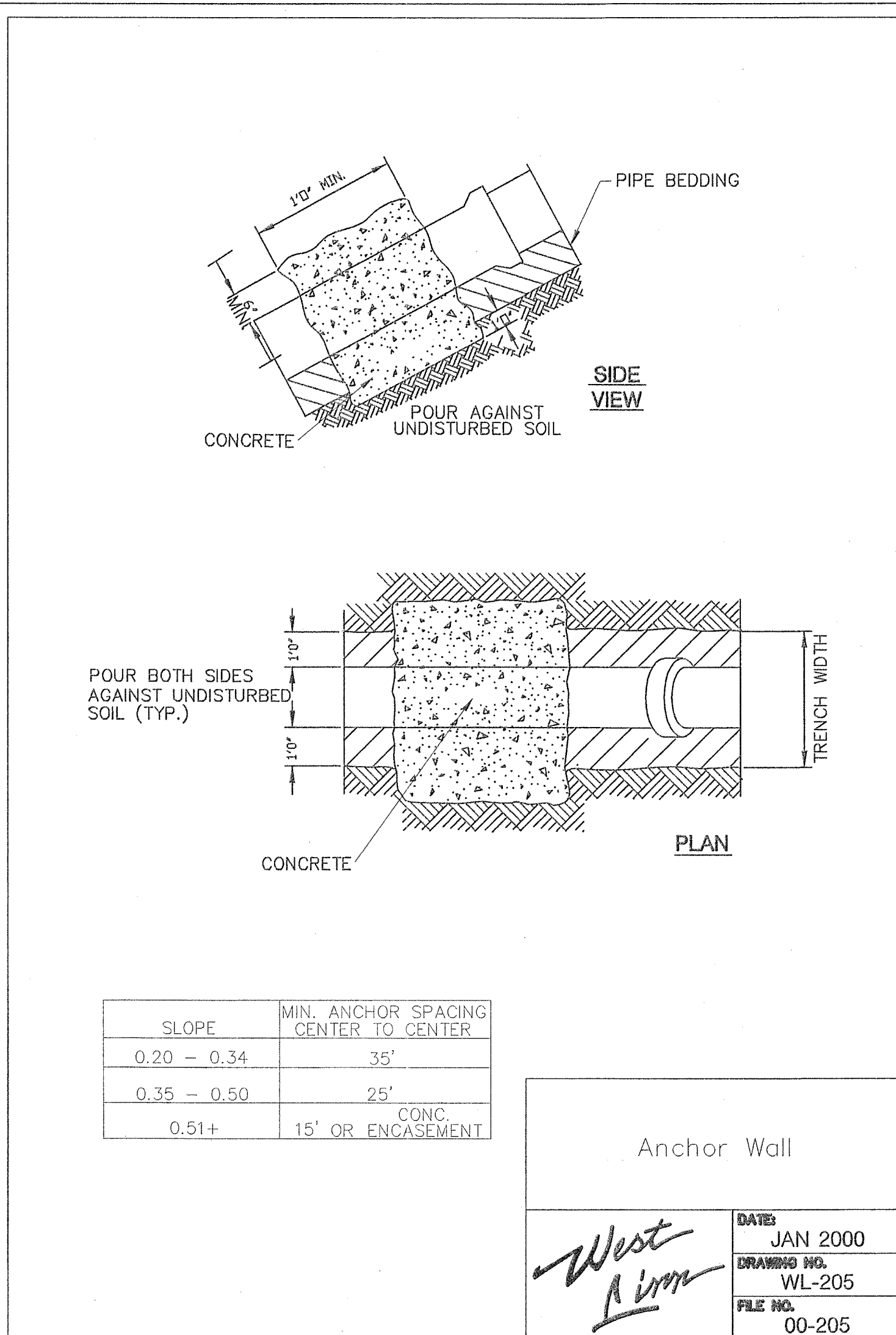
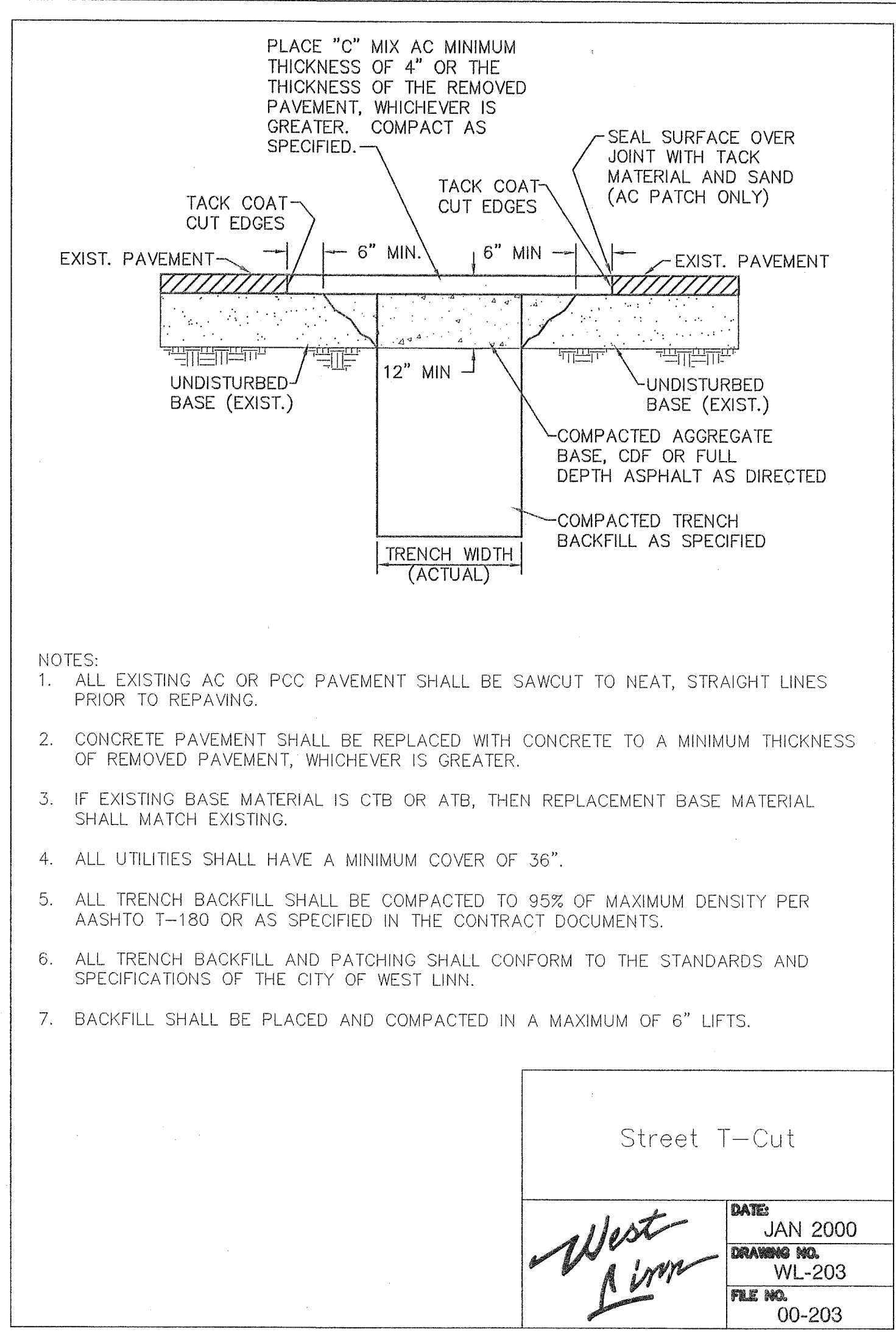
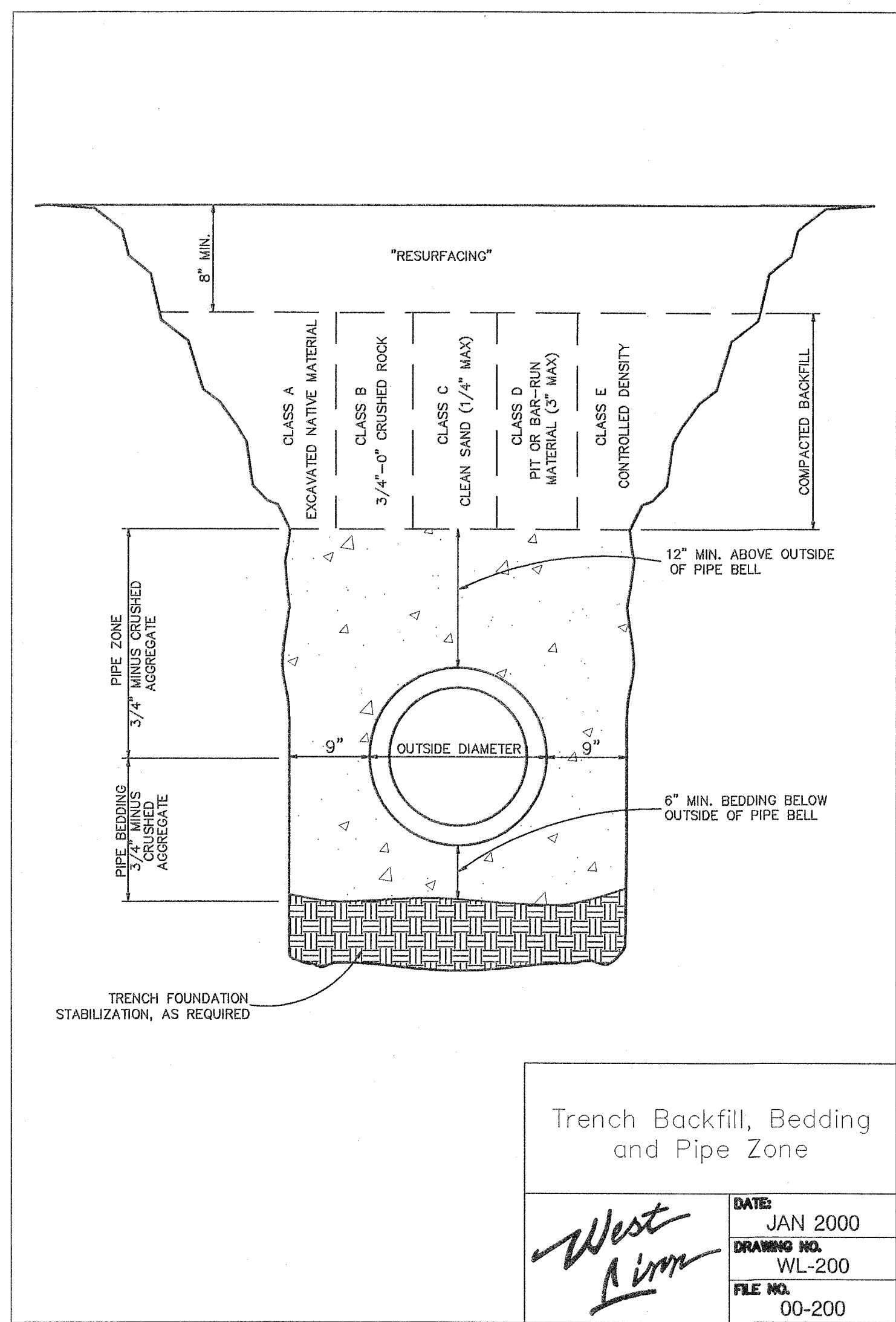
100% CONSTRUCTION DOCUMENTS

#	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

REGISTERED
362
MICHAEL P. ANDREWS
LANDSCAPE ARCHITECT
02/14/97
EXPIRES 02/28/07

DATE: 16/09/06
DRAWN: I.E.J.C. MPA
DESIGNED: I.M.P.A.
CHECKED: I.A.D.H.
PROJECT #: WLP3969.01
SHEET TITLE: SITE DETAILS
SHEET NUMBER: L601

100% CONSTRUCTION DOCUMENTS



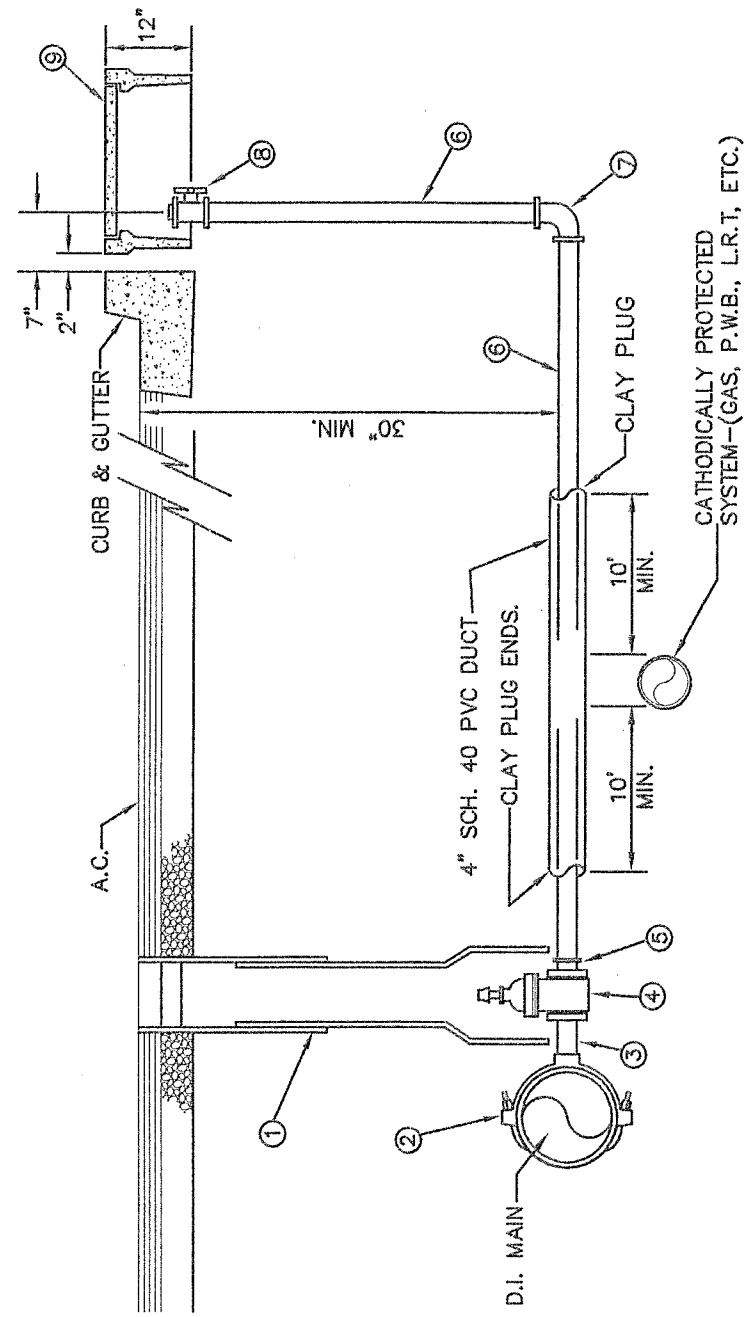
UTILITY DETAILS

MIDHILL PARK

CITY OF WEST LINN

WEST LINN, OREGON

DATE: 1/6/09/06
DRAWN: I.E.J. MPA
DESIGNED: I.M.P.A.
CHECKED: I.A.D.H.
PROJECT #: I.WLP3869.01
SHEET TITLE: UTILITY DETAILS
SHEET NUMBER: L701



MATERIALS:

1. CAST IRON VALVE BOX AND LID (SEE STD DTL NO. 411)
2. PIPE O.D. X 2" TEE OR ROCKWELL NO. 317 SERVICE SADDLE WITH STASTRAFS.
3. 2" X 6" BRASS I.P.T. NIPPLE WITH RESISTANT WEDGE
4. 1/2" I.P.T. NIPPLE WITH RESISTANT WEDGE
5. 2" X 3" I.P.T. X MUELLER 110 COMP. COUPLING
6. 2" ASTM B-88 TYPE 'K' COPPER TUBING. SOFT TEMPER WITH FLARE FITTINGS WILL NOT BE APPROVED.
7. 2" 90 DEGREE ELL. MUELLER 110 CTS COMPRESSION
8. 1/2" I.P.T. X MUELLER 110 CTS COMPRESSION
9. 1/2" I.P.T. X MUELLER 110 CTS COMPRESSION
10. BROOKS METER BOX BODY NO. 85 (2), LID & COVER NO. 85-S (2)

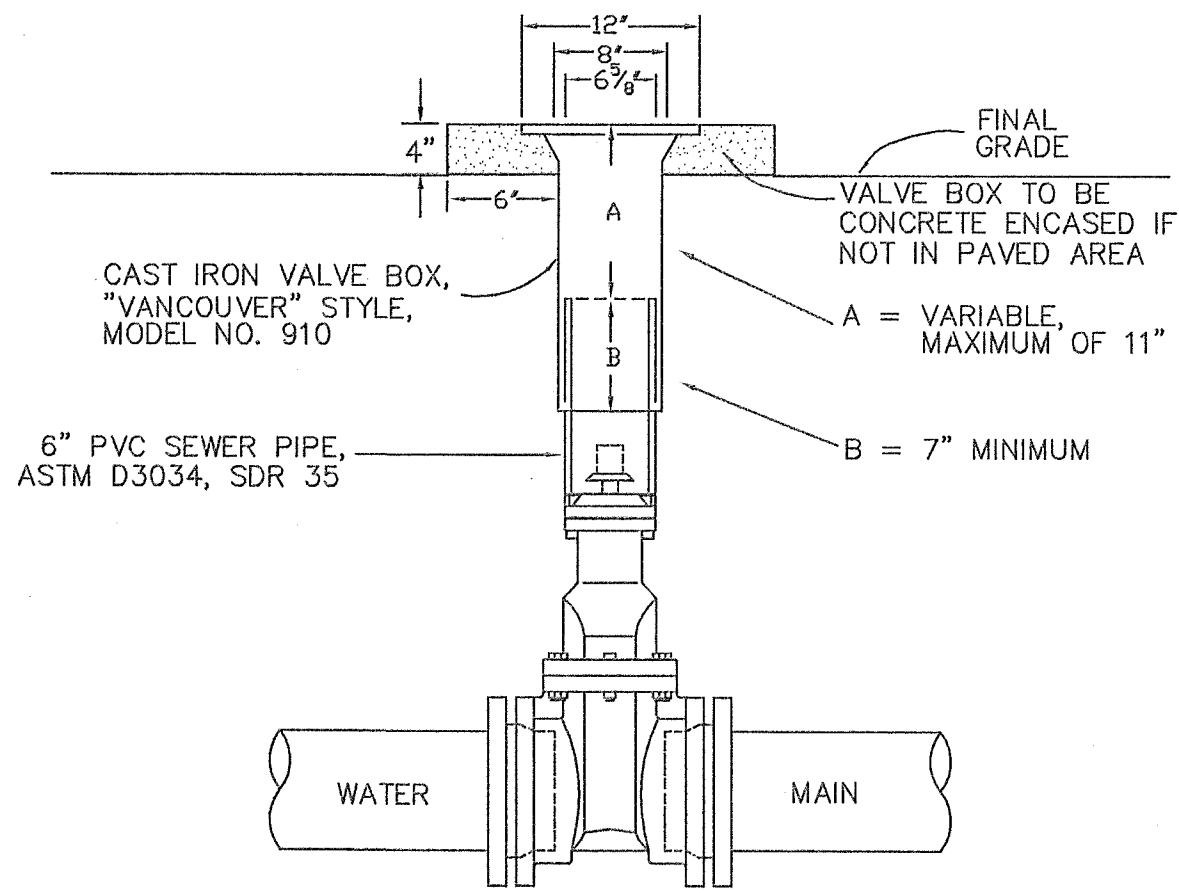
NOTES:

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 AGGREGATE.
3. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AND SHOWN WITH CLAY PLUG.
4. CUSTOMER SHALL INSTALL AN APPROVED BACKFLOW PREVENTION DEVICE.

Standard 1 1/2" - 2"
Single Service

West Linn

DATE: JAN 2000
DRAWING NO. VL-403
FILE NO. 00-403



NOTCH 1/16" DEEP AND
3/8" LONG INDICATING
DIRECTION OF MAIN

"VANCOUVER"
18" TALL VALVE BOX

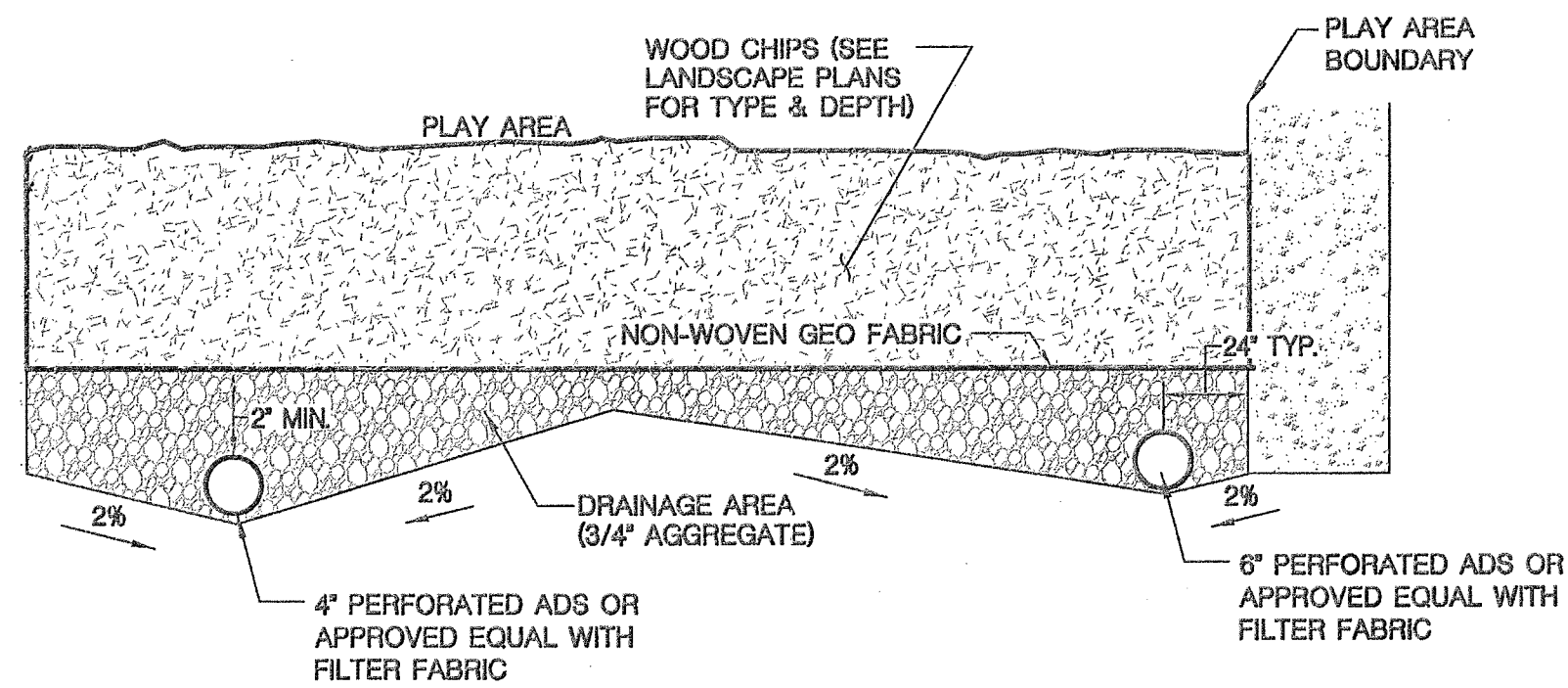
NOTES:

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.

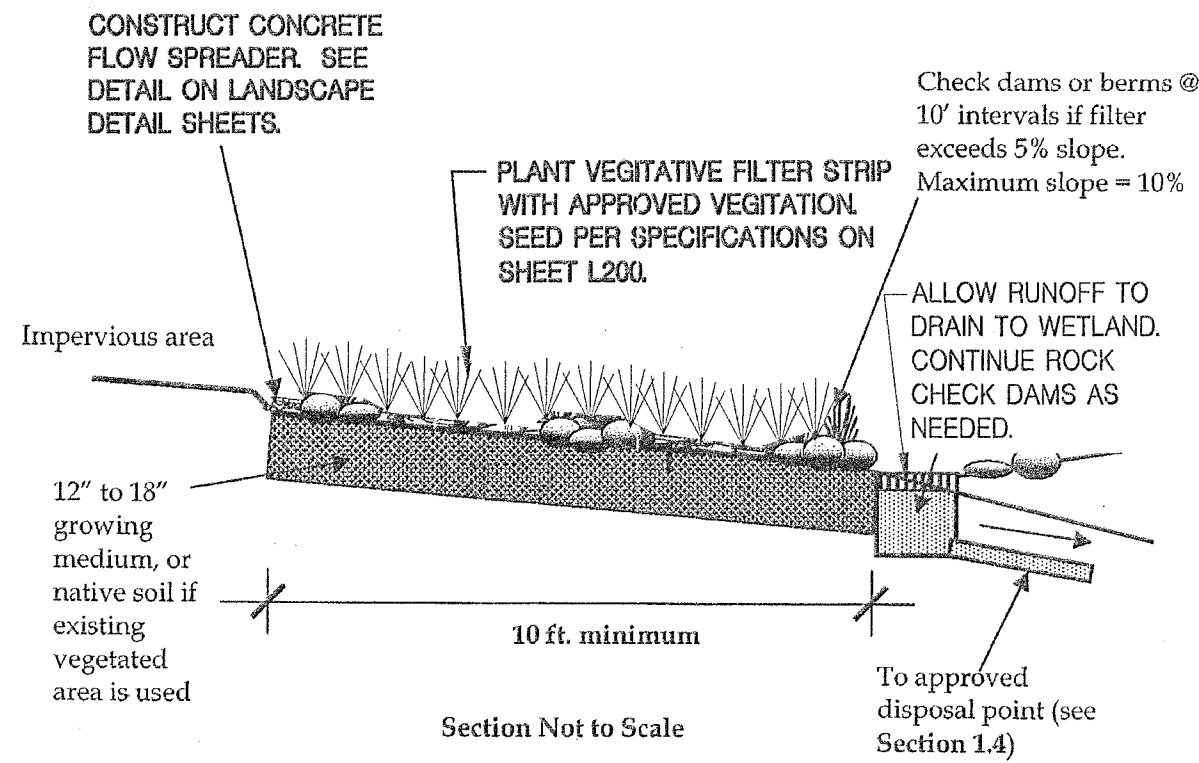
Standard Valve Box
Detail

West Linn

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



SOFT PLAY AREA DRAIN DETAIL



VEGETATIVE FILTER STRIP

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: 01/20/00 BY: *Alonso P. W.*
Dennis A. W.

UTILITY DETAILS
MIDHILL PARK
CITY OF WEST LINN
WEST LINN, OREGON

#	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL
ENGINEER
19,172
RANDALL S. DYER
JULY 15, 1997
EXPIRES 12-31-07

DATE: 16/09/06
DRAWN: I.E.J. MPA
DESIGNED: I.M.P.A.
CHECKED: I.A.D.H.
PROJECT #: WL/P3869.01

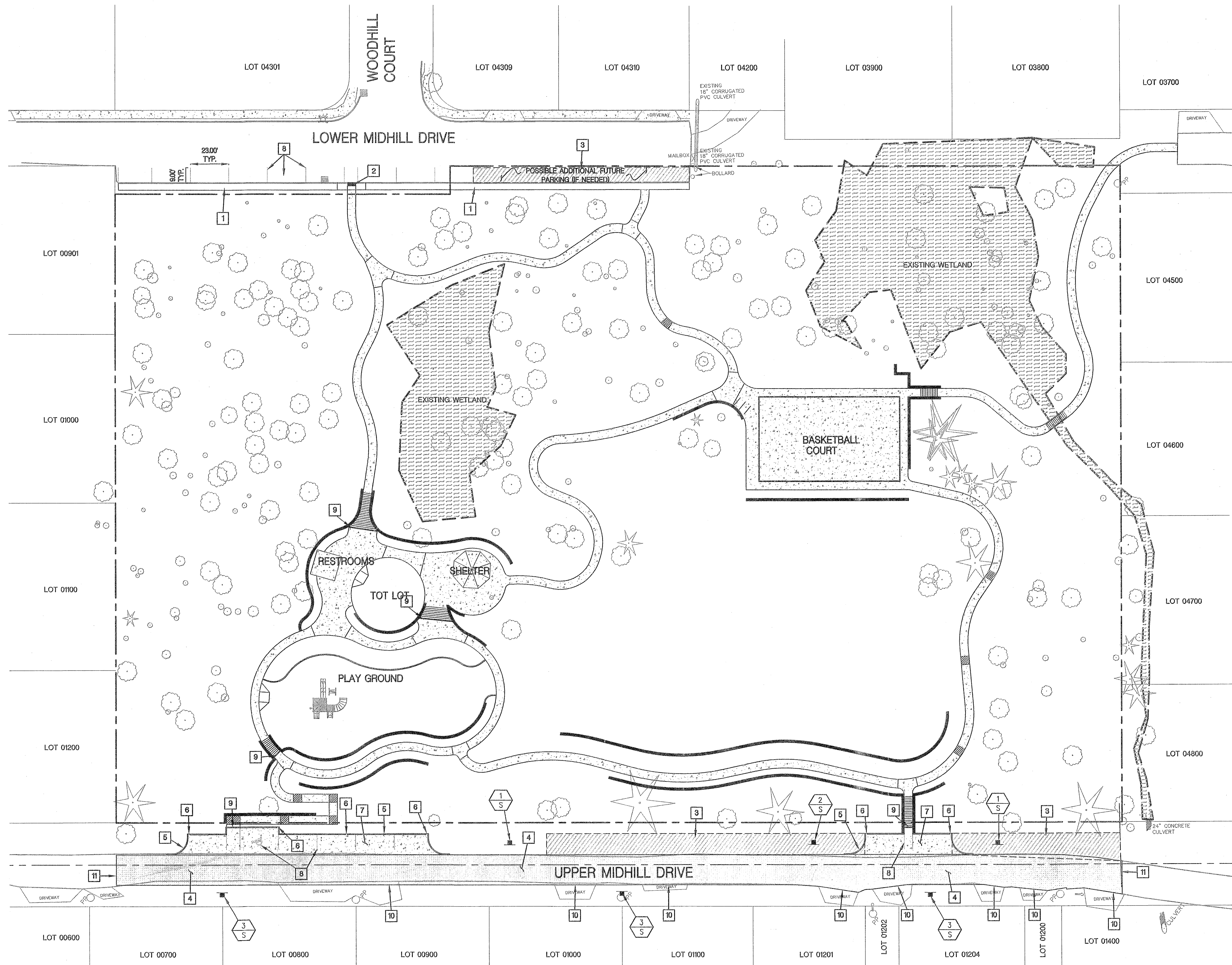
SHEET TITLE
UTILITY DETAILS
SHEET NUMBER

L702

W R G
DESIGN
5415 SW Westgate Dr, Ste 100 Portland, OR 97221
Tel. 503.419.2500 Fax. 503.419.2800
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

West Linn
City of West Linn
22500 Salama Road
West Linn, Oregon 97068
(503) 772-5500

100% CONSTRUCTION DOCUMENTS



- STREET CONSTRUCTION NOTES:**
1. CONSTRUCT 4' WIDE SIDEWALK PER DETAIL WL-508 ON SHEET L801.
 2. CONSTRUCT ADA SIDEWALK RAMP PER DETAIL WL-508 ON SHEET L801. INSTALL TRUNCATED DOMES INSTEAD OF DIAMOND TEXTURING. KEEP SIDEWALK CURB TIGHT AND PROVIDE 6" WINGS TO MEET ADA REQUIREMENTS.
 3. POSSIBLE ADDITIONAL FUTURE PARKING PER CONDITION #4 OF CONDITIONS OF APPROVAL.
 4. PROVIDE 2" CLASS 'C' ASPHALT OVERLAY PER DETAIL #1 SHOWN ON SHEET L801, TITLE 'UPPER MIDHILL DRIVE TYPICAL SECTION'.
 5. CONSTRUCT TYPICAL STRAIGHT CURB PER DETAIL WL-501 ON SHEET L801. GRADE SURROUNDING SOIL TO TOP OF CURB.
 6. PROVIDE 12" FLOW THROUGH GAP IN CURB ALLOWING GUTTER PAN TO DISCHARGE INTO PARK AREA. DEPRESS ADJACENT SOIL TO ALLOW DRAINAGE INTO PARK AREA. INSTALL 50# RIP-RAP AT CURB TO DISPERSE RUNOFF. SEED SOIL WITH GRASS MIX TO PROTECT AGAINST EROSION.
 7. CONSTRUCT ASPHALT PARKING AREA PER ENLARGEMENTS SHOWN ON SHEET L801. STRUCTURAL SECTION TO BE 1-1/2" CLASS 'C' ASPHALT OVER 1-1/2" CLASS 'B' ASPHALT OVER 2" OF 3/4"-0 CRUSHED ROCK OVER 7" OF 1-1/2"-0 CRUSHED ROCK.
 8. STRIPE PARKING STALLS & HANDICAP SPACE WITH CITY OF WEST LINN APPROVED WHITE MARKINGS.
 9. TRENCH DRAIN REFER TO SHEET L700 NOTE #15.
 10. GRIND EXISTING EDGE OF ASPHALT AT EXISTING DRIVEWAY FOR OVERLAY TO MATCH DRIVEWAY GRADE. PER DETAIL #2 SHOWN ON SHEET L801.
 11. GRIND EXISTING ASPHALT AT LIMITS OF SITE IMPROVEMENTS FOR OVERLAY TO MATCH EXISTING ASPHALT GRADE. PER DETAIL #2 SHOWN ON SHEET L801.

- Street overlay shall meet city standards.
- Existing pavement shall be repaired as needed prior to overlay.

GENERAL SIGNING NOTES:

- 1) CONTRACTOR SHALL SUPPLY AND INSTALL ALL SIGNS, AND IS RESPONSIBLE FOR STAKING SIGN LOCATIONS AND OBTAINING UTILITY LOCATES FOR STAKED SIGN LOCATIONS. SIGNS SHALL BE LOCATED PER TYPICAL SIGN LOCATION OR AS SHOWN ON PLANS.
- 2) ALL SIGNING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 3) ALL SIGNS TO BE ENGINEER GRADE.
- 4) CITY APPROVED GALVANIZED POSTS.

A 2 X 2 INCH 12 GAUGE GALVANIZED "UNISTRUT TELESAR" OR 12 GAUGE PERFORATED POSTS OR APPROVED EQUIVALENT SHALL BE USED. SIGN COMBINATION AND MINIMUM SIGN MOUNTING HEIGHT SHALL DETERMINE POST LENGTH.

SIGN POSTS AND ANCHORS SHALL BE INSTALLED PER "TYPICAL SIGN INSTALLATION".

NO OTHER TYP. OF POST SHALL BE USED UNLESS PRIOR APPROVAL OF THE CITY TRAFFIC ENGINEER IS OBTAINED.

LEGEND

- PROJECT BOUNDARY
EXISTING WETLAND
PROPOSED ASPHALT RESURFACING



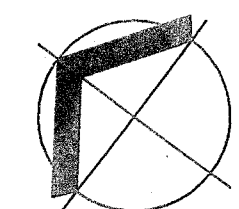
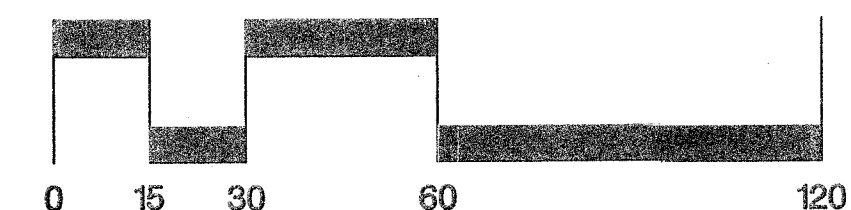
PERMANENT SIGNING LEGEND

N = SIGN NUMBER
M = MATERIALS, OPTIONS ARE:
S = STEEL "TELESAR"
B = MOUNTED ON TYPE III BARRICADE

	CODE: N7-1(P) TYPE: SIZE: 12"x18" QUANTITY: 2		CODE: N7-1(L) TYPE: SIZE: 12"x18" QUANTITY: 1		CODE: N7-1 TYPE: SIZE: 12"x18" QUANTITY: 3
SIGN 1		SIGN 2		SIGN 3	

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN

DATE 04/09/08 BY *Alfredo P. Zúñiga*
Dennis E. W. W. W.



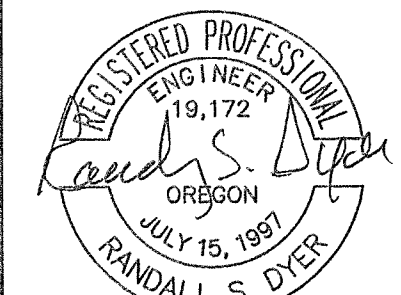
PUBLIC STREET IMPROVEMENTS

MIDHILL PARK

CITY OF WEST LINN

WEST LINN, OREGON

DATE	DESCRIPTION



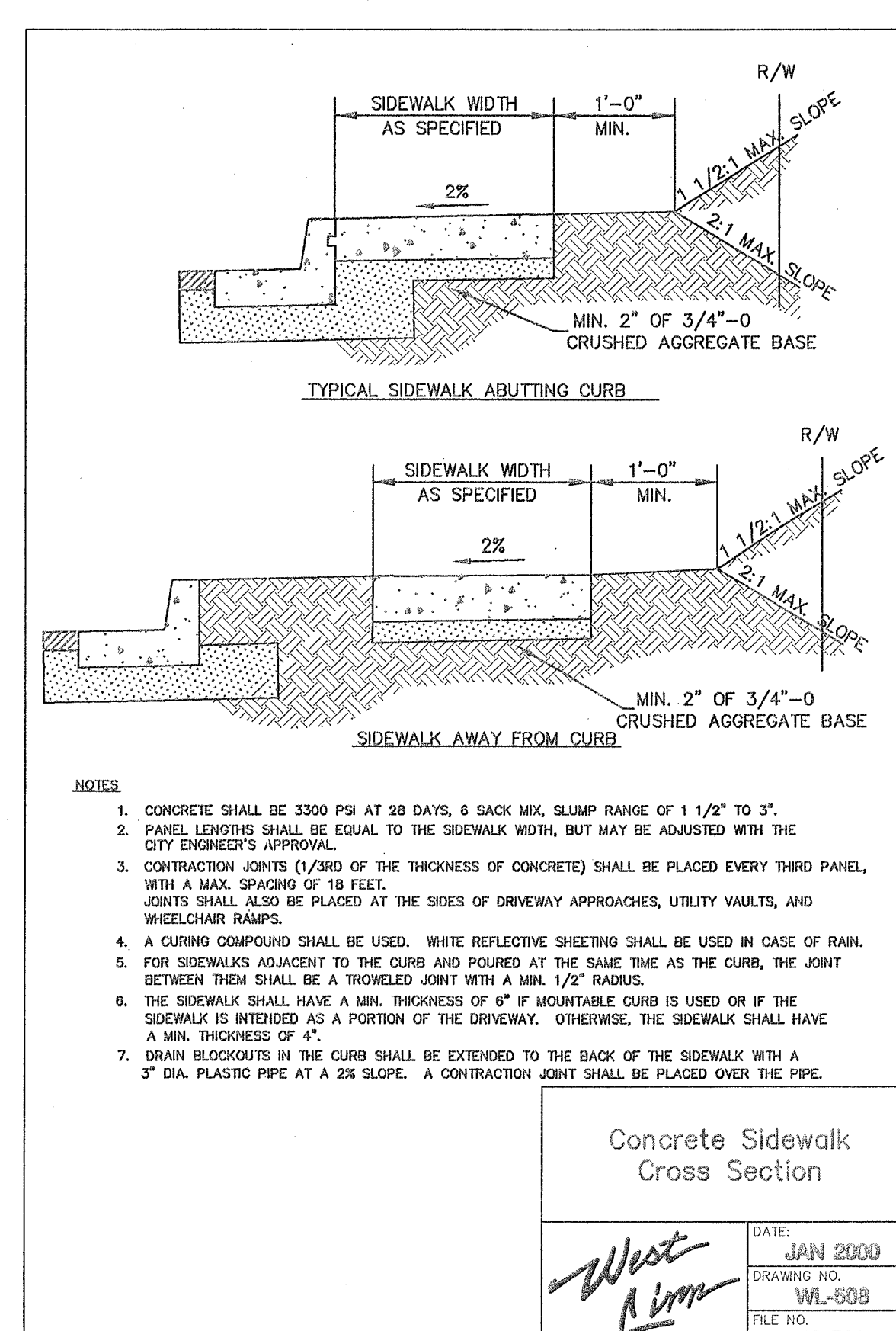
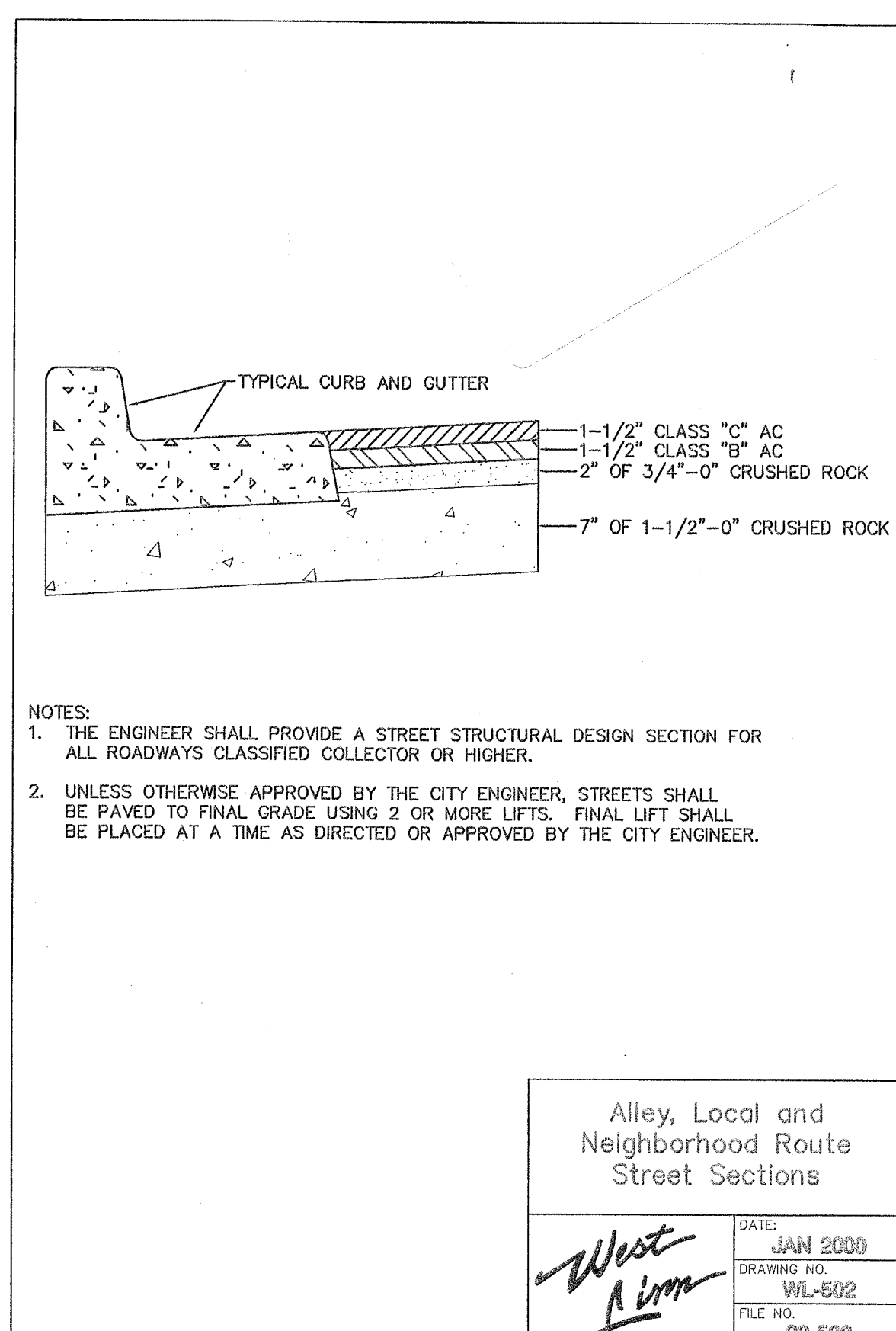
EXPIRES 12-31-07

DATE 6/09/08
DRAWN DJM MPA
DESIGNED DJM
CHECKED RSD
PROJECT # WLP386901

SHEET TITLE
PUBLIC STREET IMPROVEMENTS
SHEET NUMBER

L800

WEST LINN
City of West Linn
22500 Solano Road
West Linn, Oregon 97068
(503) 772-5500
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
5415 SW Westgate Dr. Ste 100 Portland, OR 97221
Tel. 503.419.2500 Fax. 503.419.2600

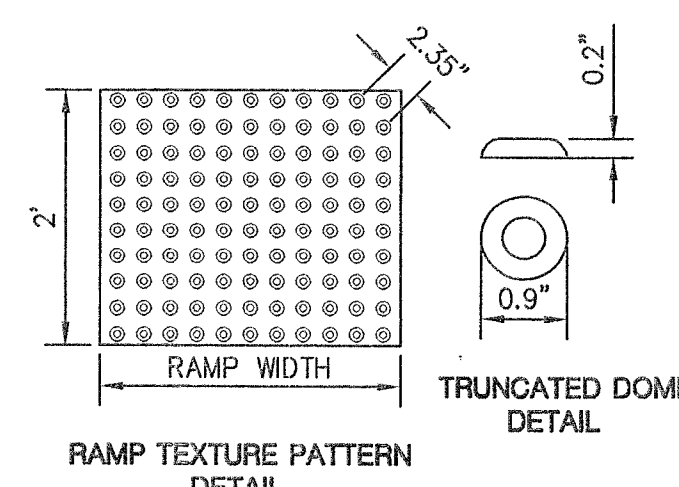


W R G

D E S I G N I N G

4415 SW Westgate Dr Ste 100 Portland, OR 97221
Tel. 503.419.2500 Fax. 503.419.2600

PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS



5/16" GALV. OR ALUMINUM ALLOY WASHER

FACE SIGN

3/8" X 7/16" DRIVE PIN

23-VR2 "V-LOC"

SIGN POST

ANGLE LEG ANCHOR

WEDGE

SOCKET

ANCHOR

DIRECTION OF

This technical drawing illustrates the assembly of a sign post. It includes three views: a side view, a top view, and a detail view of the anchor. The side view shows a sign post with a face sign attached via a washer and pin. The top view shows the sign post's cross-section and the anchor's location. The detail view shows the anchor's internal structure, including a wedge and an angle leg anchor. Arrows indicate the direction of assembly.

STREET DETAILS
MIDHILL PARK
CITY OF WEST LINN
WEST LINN, OREGON

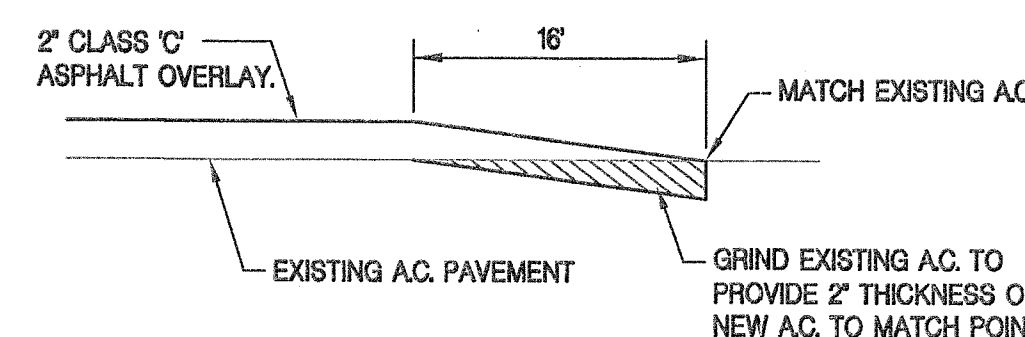
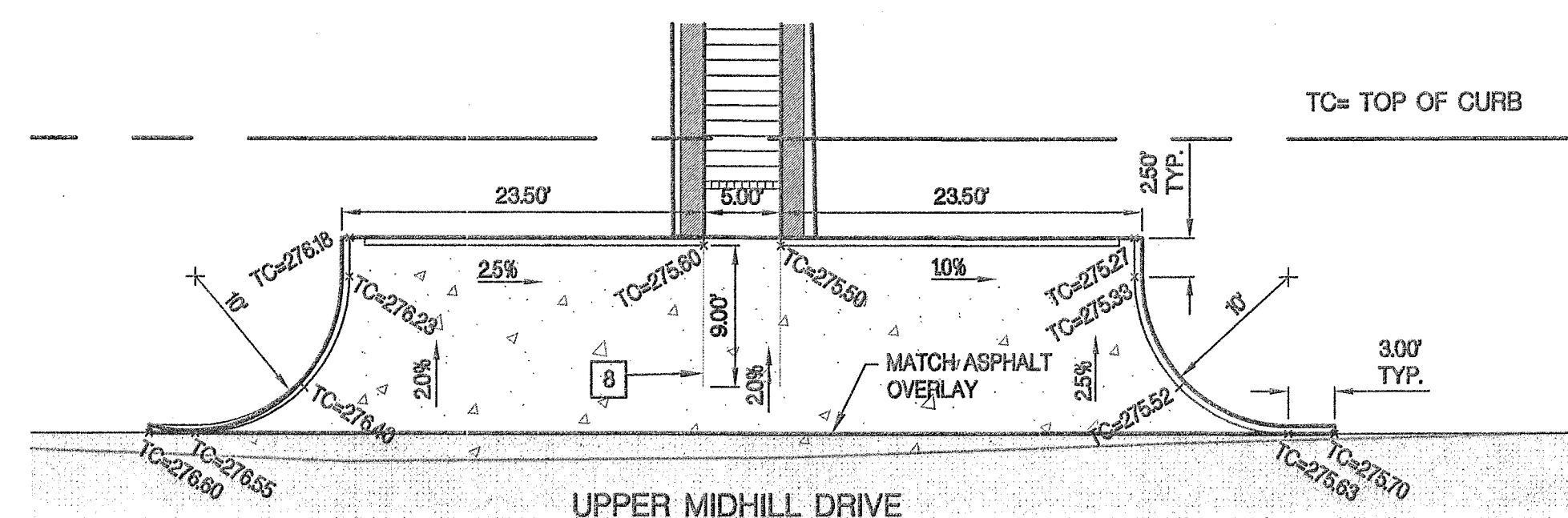


FIGURE B
DETECTABLE WARNING TEXTURE



SOUTHERN UPPER MIDHILL DRIVE PARKING LOT DETAIL

REGISTERED PROFESSIONAL
ENGINEER
19172
and S. Dyer
OREGON
JULY 15, 1991
RANDALL S. DYER
EXPIRES 12-31-07

DATE	6/09/06
DRAWN	EJC, MPA
DESIGNED	MPA
CHECKED	ADH
PROJECT #	WLP38690
SHEET TITLE	
STREET DETAIL	
SHEET NUMBER	

L801