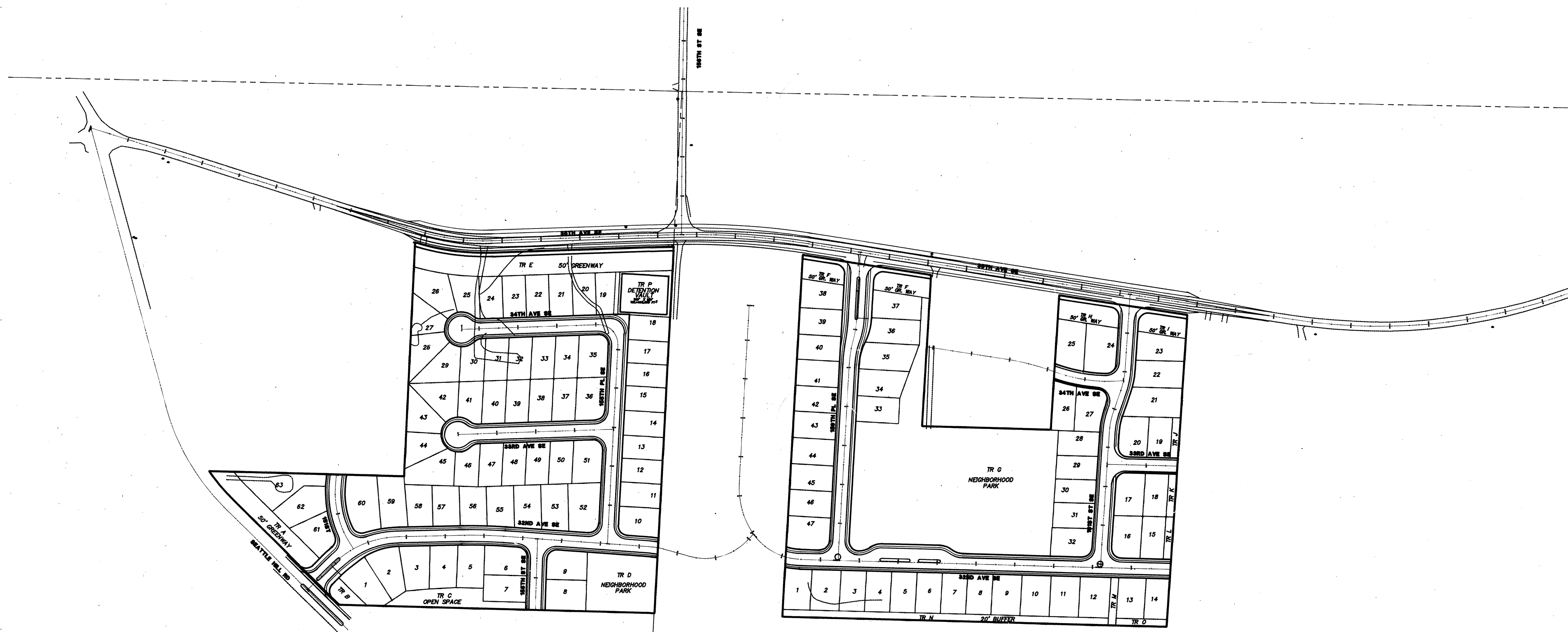
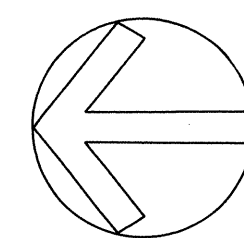


SEC 5, TWP 27N, RGE 5E, W.M.

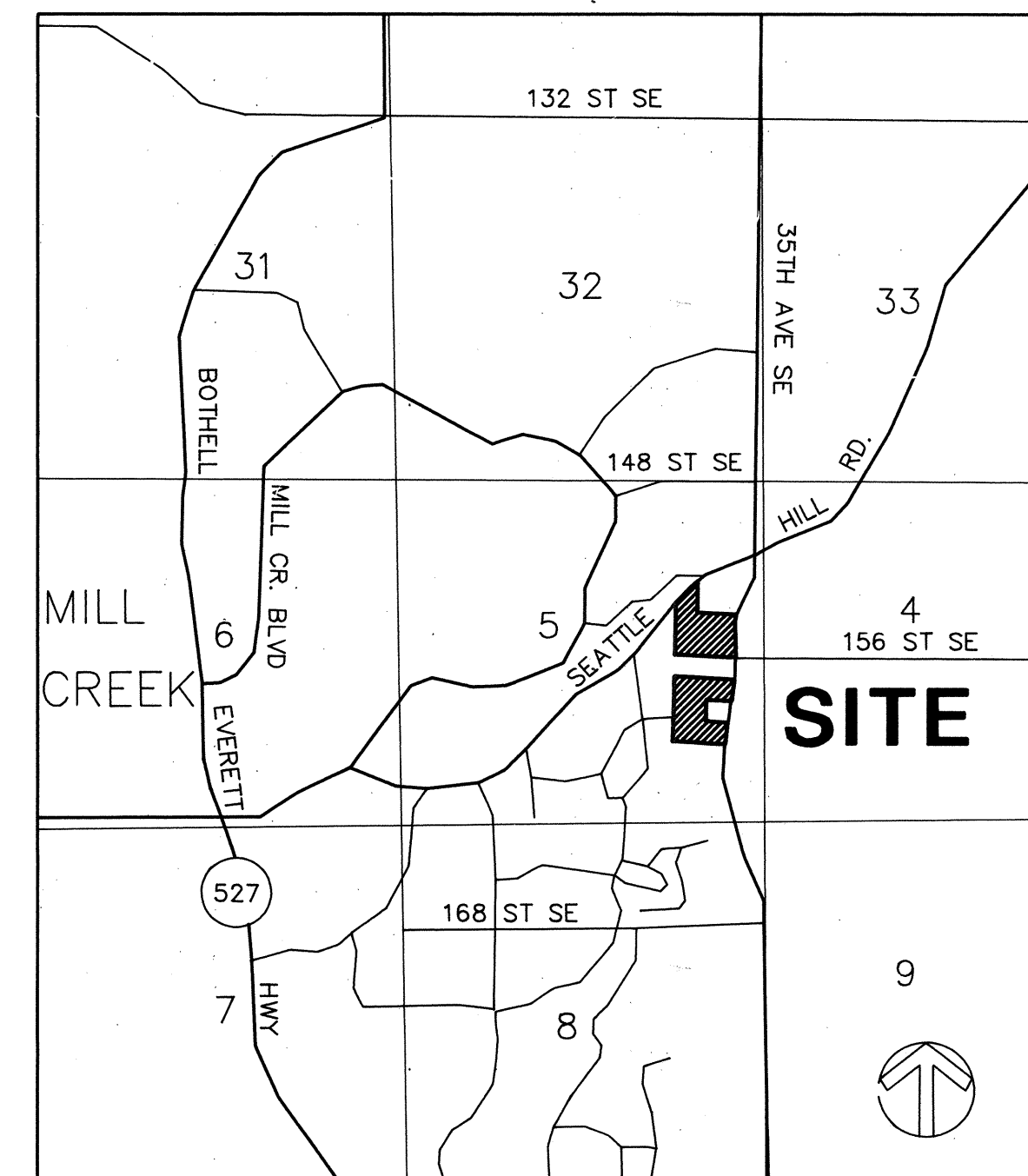


DIV.1

DIV.2



SCALE: 1" = 200'



VICINITY MAP
SCALE: 1" = 2560'

THE PARKS AT MILL CREEK

LEGAL DESCRIPTION:

THAT PORTION OF THE WEST HALF OF THE WEST HALF OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., LYING SOUTH OF THE COUNTY ROAD.

TOGETHER WITH THAT PORTION OF THE EAST THREE-QUARTERS OF THE NORTH HALF OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., LYING WEST OF THE WEST LINE OF 35TH AVENUE S.E. (YORK ROAD);

TOGETHER WITH THAT PORTION OF THE EAST THREE-QUARTERS OF THE SOUTH HALF OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., LYING WEST OF PRESENT EXISTING COUNTY ROAD;

TOGETHER WITH THAT PORTION OF THE SOUTH HALF OF THE NORTH HALF OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., LYING WEST OF THE COUNTY ROAD;

TOGETHER WITH THE WEST 500 FEET OF THE FOLLOWING DESCRIBED PROPERTY;

THAT PORTION OF THE NORTH HALF OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER LYING WEST OF THE PRESENTLY EXISTING COUNTY ROAD (YORK ROAD); EXCEPT COUNTY ROAD;

TOGETHER WITH A 30 FOOT EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER THE NORTH BOUNDARY OF THE FOLLOWING DESCRIBED PROPERTY:

THAT PORTION OF THE NORTH HALF OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER LYING WEST OF PRESENTLY EXISTING COUNTY ROAD (YOUR ROAD), ALL IN SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., IN SNOHOMISH COUNTY, WASHINGTON; EXCEPT THE WEST 500 FEET;

TOGETHER WITH THAT PORTION OF THE SOUTH HALF OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M. LYING WEST OF THE WEST LINE OF 35TH AVENUE S.E. (YORK ROAD).

SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

Phase I - Construction Schedule

- 1) Attend pre-construction meeting.
- 2) Install clearing limit barrier fencing. Obtain approval of fence location by City of Mill Creek.
- 3) Clear within approved limits.
- 4) Rough grade.

No further work beyond this point without approval by City. Contractor to submit Phase II construction schedule for review and approval by City prior to proceeding.

OWNER/DEVELOPER:

COUNTRYWOOD HOMES, INC.
14410 BEL-RED ROAD
BELLEVUE, WASHINGTON 98007
(206) 644-2321

ENGINEER:

OSTERGAARD-ROBINSON & ASSOCIATES, INC.
3705 COLBY AVE #1
EVERETT, WASHINGTON 98201
(206) 259-6445

SURVEYOR:

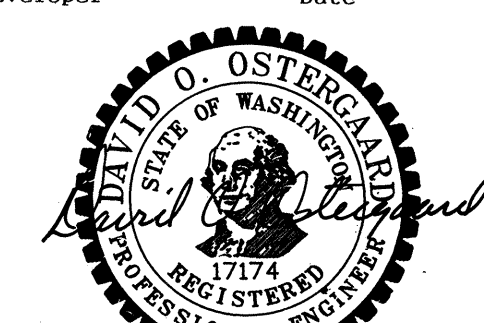
OSTERGAARD-ROBINSON & ASSOCIATES, INC.
3705 COLBY AVE #1
EVERETT, WASHINGTON 98201
(206) 259-6445

UTILITY DATA:

WATER: ALDERWOOD SEWER & WATER DISTRICT
SEWER: ALDERWOOD SEWER & WATER DISTRICT
SCHOOL: EVERETT SCHOOL DISTRICT
FIRE: CITY OF MILL CREEK
POWER: SNOHOMISH COUNTY P.U.D.
NATURAL GAS: WASHINGTON NATURAL GAS
TELEPHONE: GENERAL TELEPHONE
REFUSE: WASTE MANAGEMENT

WE HEREBY DECLARE THAT ALL IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE AS-BUILT PLANS AS INDICATED BY AB

BY: *David O. Ostergaard* Date: 12/5/94
Project Engineer
BY: *Kurt E. Steiner* Date: 12/5/94
Project Surveyor
BY: _____ Date: _____
Project Developer



CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION

BY: _____
PHASE I ONLY

TABLE OF CONTENTS:

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ROAD & STORM DRAINAGE PLAN	2/16
ROAD & STORM DRAINAGE PLAN	3/16
ROAD & STORM DRAINAGE PLAN/PROFILE	4/16
ROAD & STORM DRAINAGE PLAN/PROFILE	5/16
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PLANTER ISLAND PLAN	16/16

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION

BY: *Walter S. Miller* 2902493

PHASE I ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION

BY: *E.B. 12*

DATE	9/24/95
REVISION	P&C CITY REVIEW
BY	BCL

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
5705 COLBY AVE. #1
EVERETT, WA 98201
(206) 259-6445

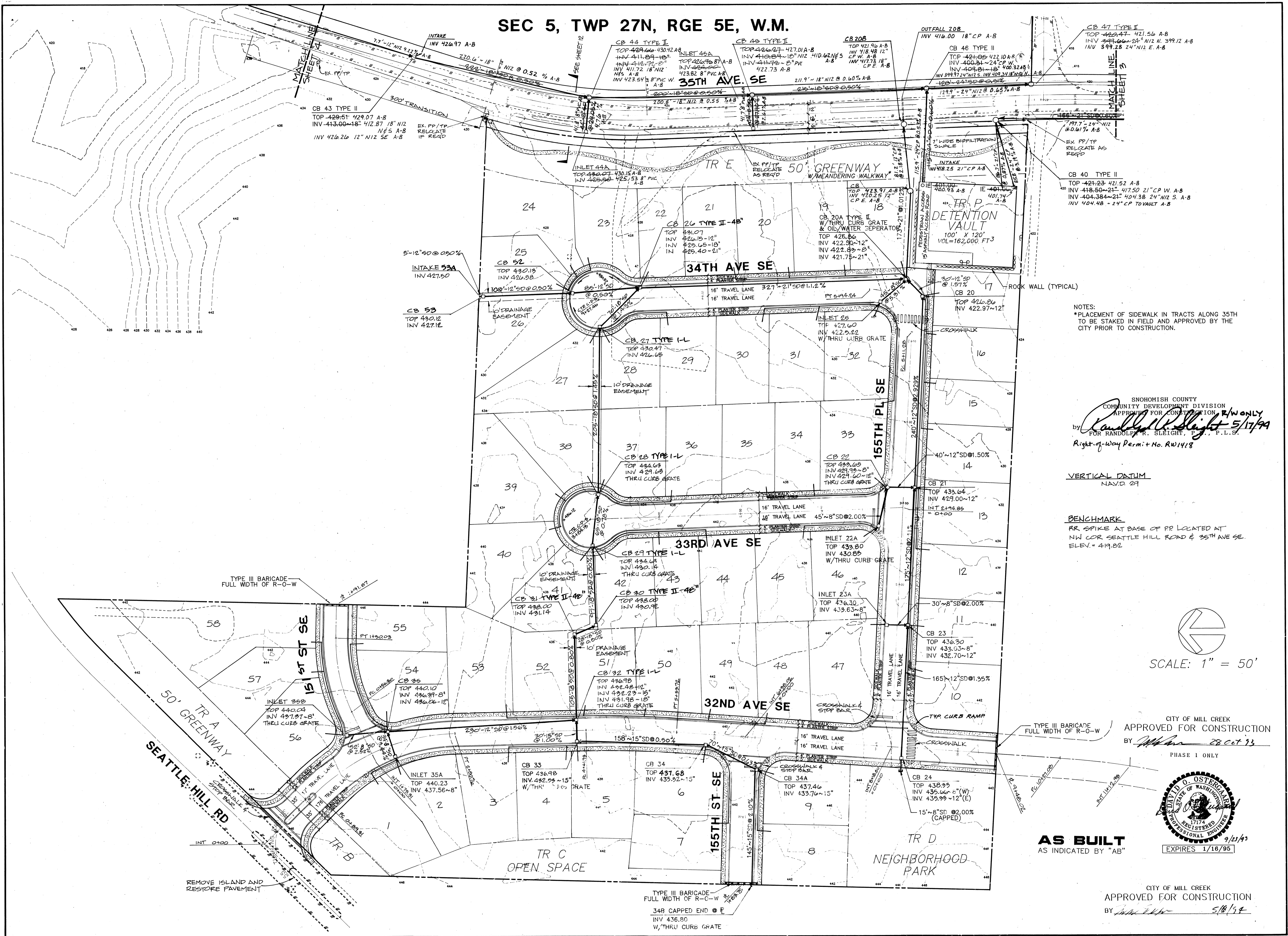
THE PARKS AT MILL CREEK
COVER SHEET
CITY OF MILL CREEK WASHINGTON

Designed ME	_____
Checked	_____
Drawn ME	_____
Checked	_____
As-built	_____

1 / 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



NOTES:
 *PLACEMENT OF SIDEWALK IN TRACTS ALONG 35TH TO BE STAKED IN FIELD AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION.

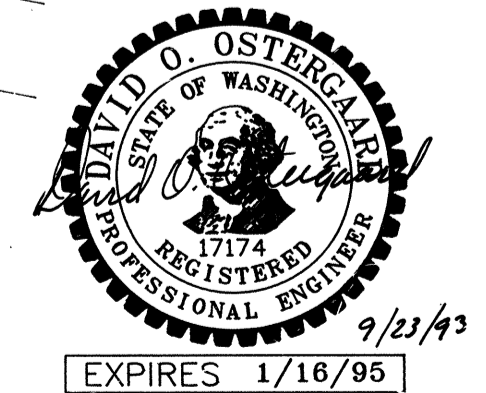
SNOMISH COUNTY
 COMMUNITY DEVELOPMENT DIVISION
 APPROVED FOR CONSTRUCTION R/W ONLY
 BY *Randolph R. Sleight* 5/17/94
 FOR RANDOLPH R. SLEIGHT, P.E., P.L.S.
 Right-of-Way Permit No. RW1418

VERTICAL DATUM
 NAVD 83

BENCHMARK
 RR SPIKE AT BASE OF PP LOCATED AT
 NW COR SEATTLE HILL ROAD & 35TH AVE SE.
 ELEV. = 419.82

SCALE: 1" = 50'

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 28 Oct 93
 PHASE 1 ONLY

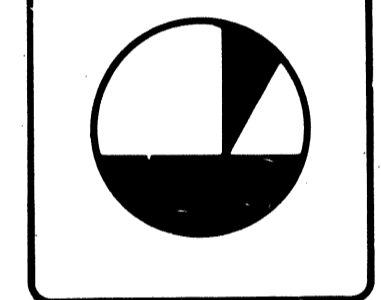


AS BUILT
 AS INDICATED BY "AB"

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 5/16/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
1/14/94	C.D.S. SPOT ELEVATIONS	DR
2/9/94	PER COUNTY REVIEW	DR
2/11/94	ADDED E. STAKES	JPL
3/17/94	REVISED 50' R/W LINES	DR
4/15/94	REVISED CB #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58	DR
5/17/94	REVISED CB #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58	DR
11/1/94	REVISED CB #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58	DR

OSTERGAARD • ROBINSON
 & ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 (206) 259-6445
 EVERETT, WA 98201
 BELLUVE, (206) 827-5854



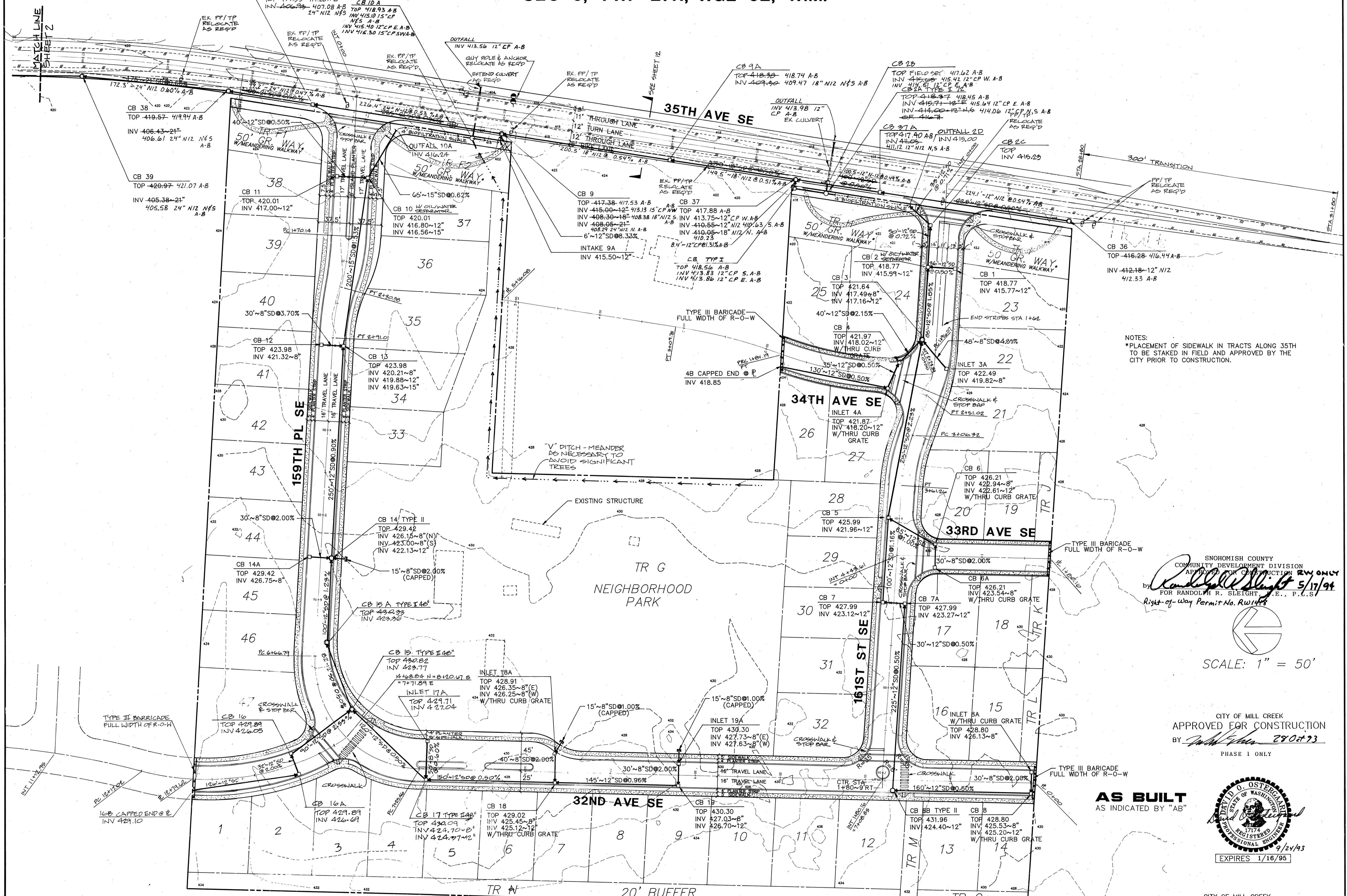
THE PARKS AT MILL CREEK
 ROAD + STORM DRAINAGE PLAN
 WASHINGTON
 CITY OF MILL CREEK

Designed ME
 Checked _____
 Drawn ME
 Checked _____
 As-Built _____

Sheet 2 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



DATE	REVISION
9/13/93	PER CITY REVIEW COMMENTS
2/19/94	PER COUNTY REVIEW
2/1/94	ADDED 4" STRE
4/15/94	REVISED 5"
4/15/94	REV LOT LINES
12/1/94	AS-BUILT (R) STORM 35TH AVE SE

OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 BELLEVUE, WA 98001
 (206) 259-6445

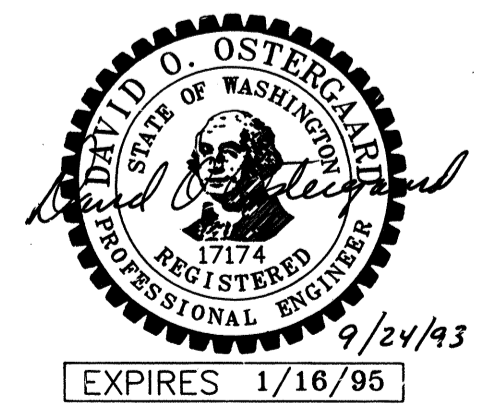
THE PARKS AT MILL CREEK ROAD + STORM DRAINAGE PLAN
 WASHINGTON
 CITY OF MILL CREEK

NOTES:
 * PLACEMENT OF SIDEWALK IN TRACTS ALONG 35TH TO BE STAKED IN FIELD AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION.

SNOHOMISH COUNTY
 COMMUNITY DEVELOPMENT DIVISION
 APPROVED FOR CONSTRUCTION **REV ONLY**
 by *Randolph R. Slight* 5/17/94
 FOR RANDOLPH R. SLIGHT, P.E., P.T.S.
 Right-of-way Permit No. RW1488

SCALE: 1" = 50'

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 290223
 PHASE 1 ONLY



AS BUILT
 AS INDICATED BY "AB"

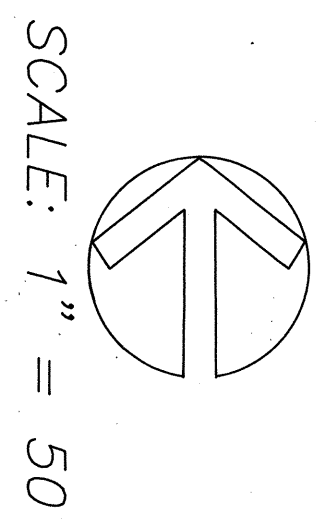
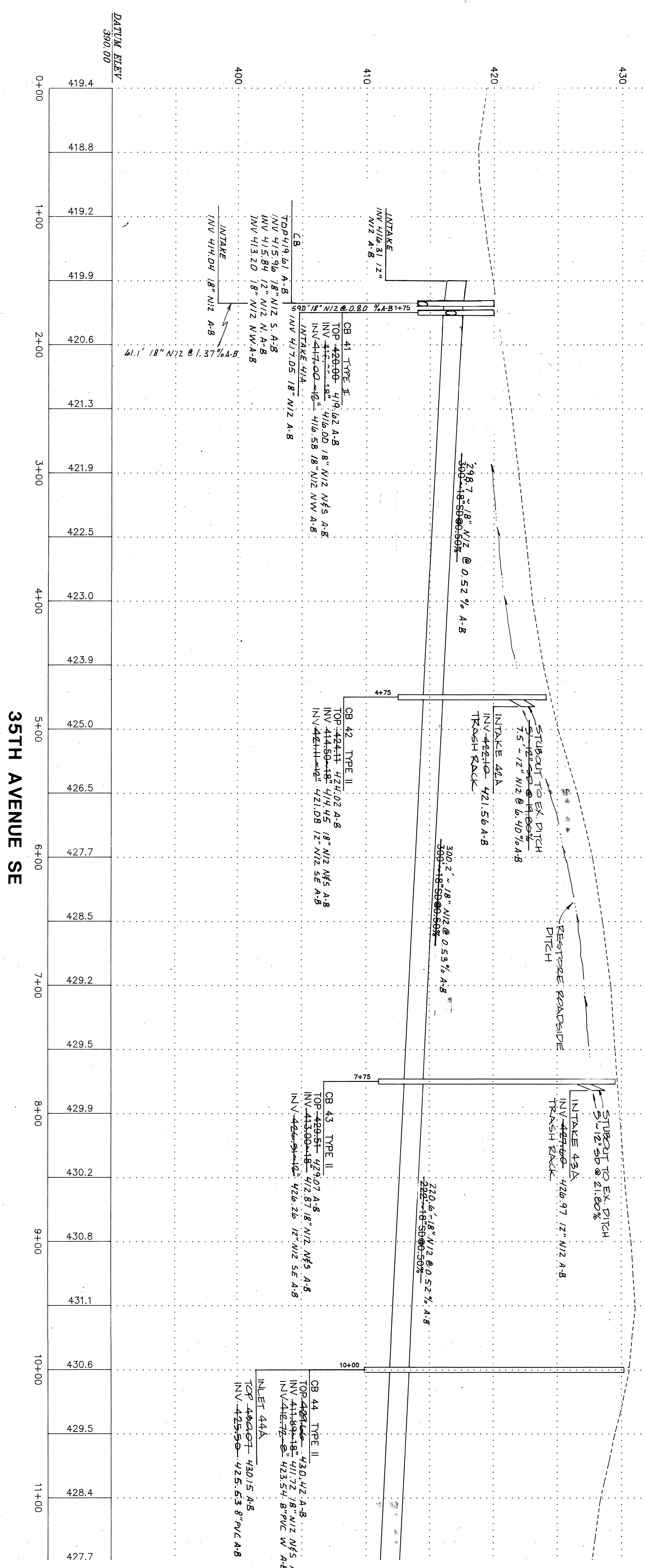
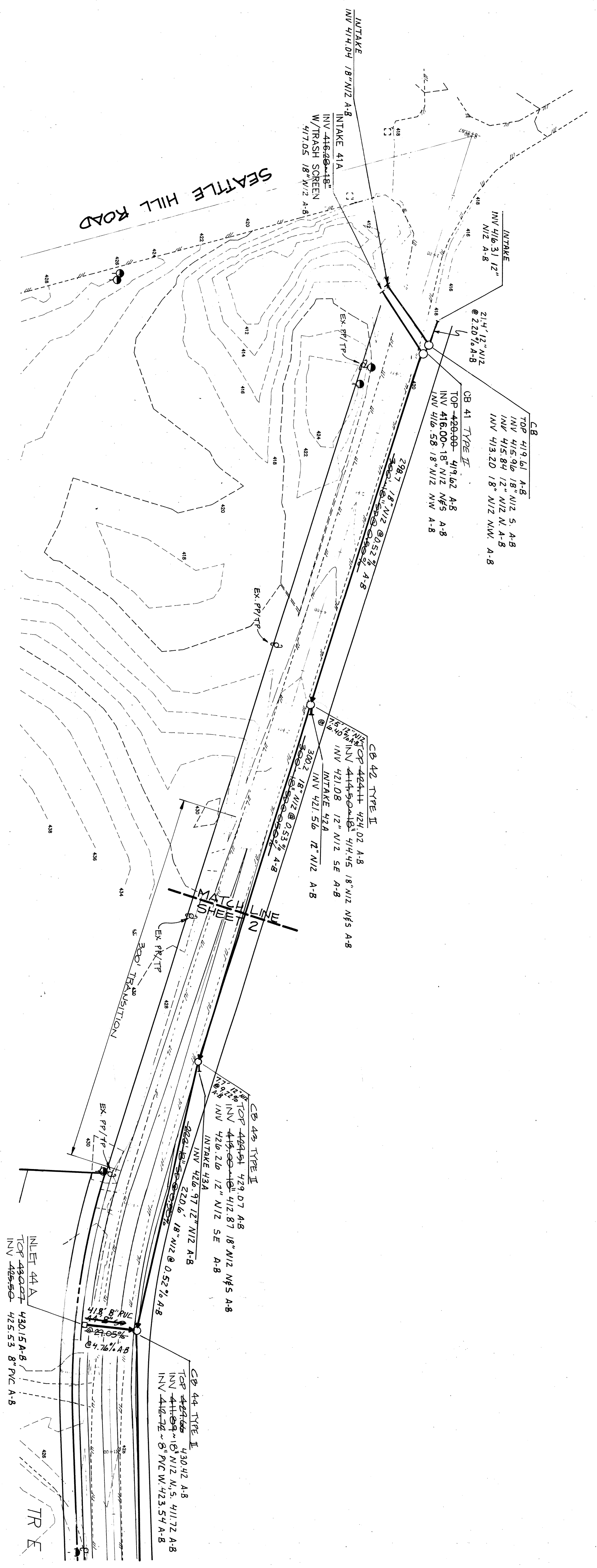
CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 5/6/94

Designed ME	Checked
Drawn ME	Checked
As-built	

Sheet 3 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



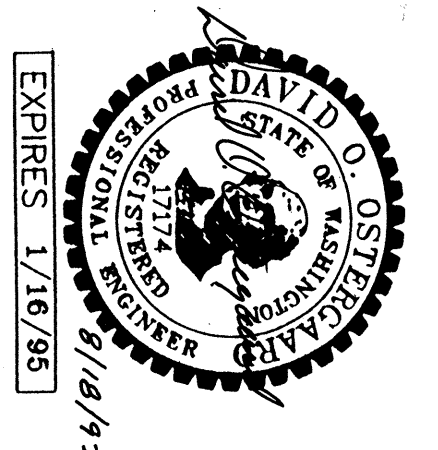
SCALE: 1" = 50'

AS BUILT
AS INDICATED BY "AB"

SENIOR DESIGNER
 by *[Signature]*
 FOR RAINCOURT R. SHERIDAN, P.E., P.L.S.
 Right-of-Way Permit No. RW1918

SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 2802723
 PHASE 1 ONLY



CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 5/1/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW	ME
2/19/94	PER COUNTY REVIEW	DDR
4/15/94	PER COUNTY REVIEW	DDR
12/2/94	AS-BUILT 5700M	GSB

OSTERGAARD • ROBINSON
 & ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1 EVERETT, WA 98201
 (206) 259-6445 BELLEVUE: (206) 827-5854

THE PARKS AT MILL CREEK
 ROAD & STORM DRAINAGE
 PLAN & PROFILE
 CITY OF MILL CREEK WASHINGTON

Designed	Checked	Drawn	Checked	As-built

Sheet 4 of 16

Job No. 93129

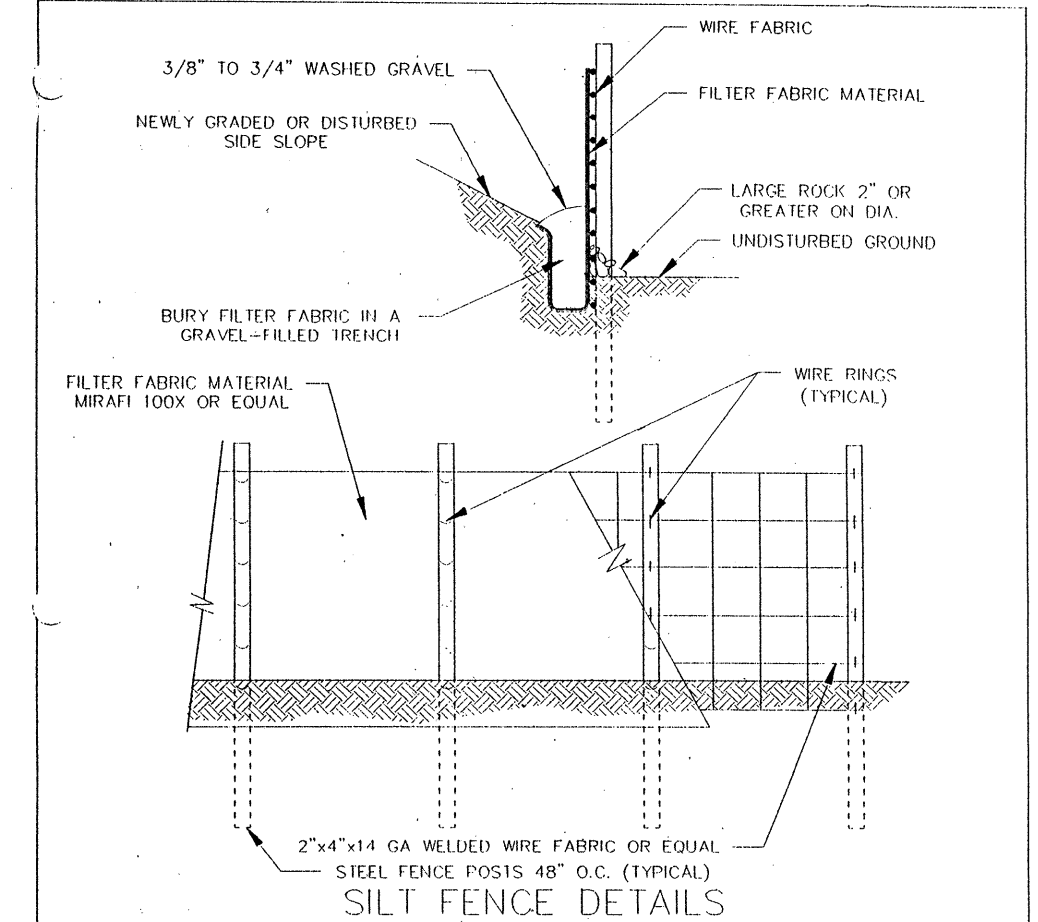
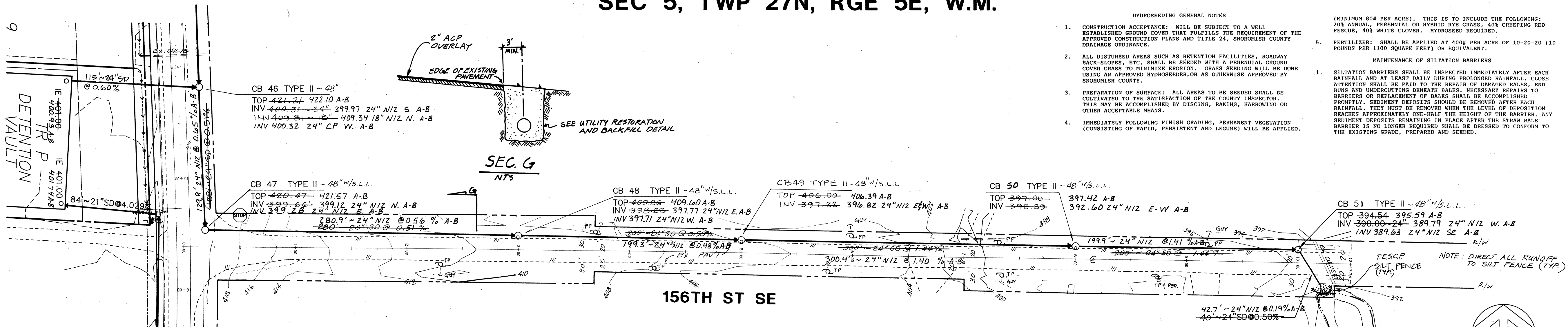
HDEV-328

SEC 5, TWP 27N, RGE 5E, W.M.

HYDROSEEDING GENERAL NOTES

- CONSTRUCTION ACCEPTANCE: WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND TITLE 24, SNOHOMISH COUNTY DRAINAGE ORDINANCE.
- ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.
- PREPARATION OF SURFACE: ALL AREAS TO BE SEEDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, BAKING, HARBORING OR OTHER ACCEPTABLE MEANS.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERENNIAL VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED.

- (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20# ANNUAL PERENNIAL OR HYBRID RYE GRASS, 40# CREEPING RED FESCUE, 40# WHITE CLOVER. HYDROSEED REQUIRED.
 - FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 100 SQUARE FEET) OR EQUIVALENT.
- MAINTENANCE OF SILTATION BARRIERS
- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RINGS UNDERCUTTING BENEATH BALES, NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STORM BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



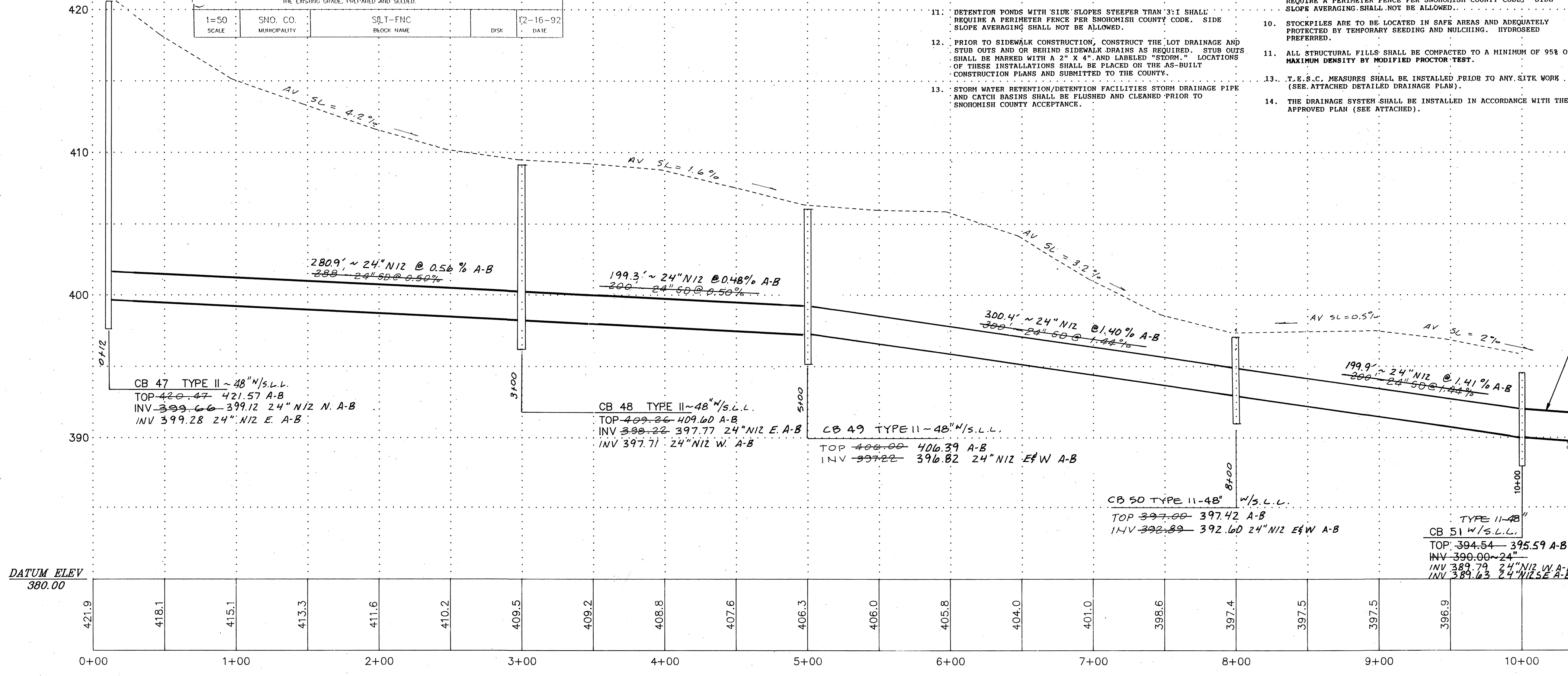
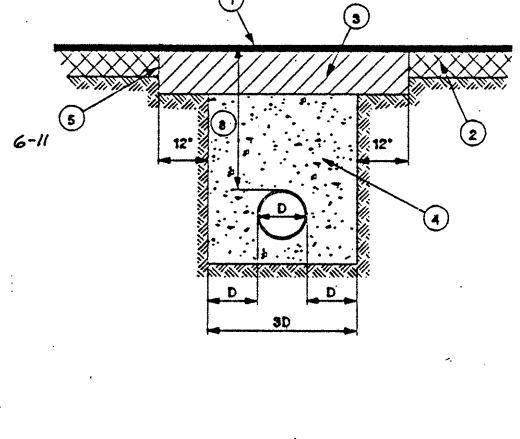
- GENERAL NOTES**
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH SNOHOMISH COUNTY STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1988 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE 1989 WSDOT HYDRAULICS MANUAL.
 - ALL WORK WITHIN THE SITE AND COUNTY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE COUNTY INSPECTOR OR HIS DESIGNATED REPRESENTATIVE.
 - PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER'S IS OSTERGAARD-ROBINSON AT (206) 259-6445.
 - THE DEVELOPER/PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S IS OSTERGAARD-ROBINSON AT (206) 259-6445.
 - PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (206) 388-3385 TO SCHEDULE A PRECONSTRUCTION CONFERENCE. DUE TO FIELD CHANGES (REVISIONS), ENGINEERED AS-BUILTS SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
 - THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
 - TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACT TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14)(C) COMPACTING EARTH ENHANCEMENTS METHOD B.
 - NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
 - BOND WILL BE PROVIDED IF ROAD REQUIRES OVERLAY.
 - RIGHT-OF-WAY USE PERMIT WILL BE PROVIDED AS REQUIRED FOR WORK INSIDE OF RIGHT-OF-WAY.

- STORM DRAINAGE NOTES**
- UNLESS OTHERWISE NOTED, ALL STORM SEWER PIPE SHALL BE CONCRETE (CP) NONREINFORCED, ASTM C-14 (24" DIAMETER AND LARGER TO BE REINFORCED, ASTM C-76), OR CORRUGATED METAL (CMP). CMP TO BE GALVANIZED STEEL WITH TREATMENT, A ASPHALT COATING OR BETTER, OR CORRUGATED ALUMINUM PIPE, OR ASAHO M274-70 ALUMINIZED STEEL. ALL PIPES SHALL HAVE RUBBER GASKETS.
 - COVER REQUIREMENTS FOR 12" PIPE: MINIMUM $1.0' - 1.5'$ - REQUIRES RCP (REINFORCED CONCRETE PIPE) MINIMUM $1.0' - 1.5'$ - REQUIRES CP (CONCRETE PIPE) MINIMUM $1.0' - 1.5'$ - REQUIRES 16 GAUGE CMP (CORRUGATED METAL PIPE) MINIMUM $1.0' - 1.5'$
 - ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE COUNTY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
 - THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-RING IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6" MAXIMUM DEPTH 8", THOROUGHLY TAMING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO BEST PRACTICE SPECIFICATION 7-04.3(1) AND STANDARD SPECIFICATION 2-03.3(14)(C), METHOD B & C.
 - ALL GRATES (INLET AND CATCH BASIN) SHALL BE DEPRESSURED 0.1 FEET BELOW PAVEMENT LEVEL.
 - ALL CATCH BASINS TO BE TYPE I UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
 - ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
 - ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASIN GRATES OF PUBLIC R/W SHALL HAVE LOCKING LIDS. ROLLED GRATES ARE NOT APPROVED FOR OUTSIDE OF COUNTY RIGHT-OF-WAY OR FOR USE WITH TYPE II MANHOLES.
 - STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASIN/MANHOLES EXCEEDING 5 FEET IN DEPTH.
 - CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC POUNDRY MODEL 5435, 5435A, OR 5050A, LOCKING TYPE OR EQUAL. MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. MODEL 5050A IS REFERRED TO AS A "ROLLED GRATE INLET" IN THE PLAN.
 - DEFLECTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 SHALL REQUIRE A PERIMETER FENCE PER SNOHOMISH COUNTY CODE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED.
 - PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND OR BEHIND SIDEWALK DRAINS AS REQUIRED. STUB OUTS SHALL BE MARKED WITH A 2" X 4" AND LABELED "STUB". LOCATIONS OF THESE INSTALLATIONS SHALL BE PLACED ON THE AS-BUILT CONSTRUCTION PLANS AND SUBMITTED TO THE COUNTY.
 - J.E.S.C. MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE WORK (SEE ATTACHED DETAILED DRAINAGE PLAN).
 - THE DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLAN (SEE ATTACHED).

SITE GRADING AND T.E.S.C.P. NOTES

- NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER'S IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE DEVELOPER/PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (206) 388-3385 TO SCHEDULE A PRECONSTRUCTION CONFERENCE. DUE TO FIELD CHANGES (REVISIONS), ENGINEERED AS-BUILTS SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL SITE WORK MUST COMPLY TO CHAPTER 70 OF THE UNIFORM BUILDING CODE (1998 EDITION).
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS. PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT ARE TO FOLLOW COUNTY SPECIFICATIONS AND TO BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOIL MECHANICS.
- DEFLECTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 SHALL REQUIRE A PERIMETER FENCE PER SNOHOMISH COUNTY CODE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEED PREFERRED.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
- J.E.S.C. MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE WORK (SEE ATTACHED DETAILED DRAINAGE PLAN).
- THE DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLAN (SEE ATTACHED).

- NOTES:**
- LONGITUDINAL TRENCH - 2" ASPHALT CLASS B OVERLAY. SEE SEC. 10-8.2.4.
 - TRANSVERSE TRENCH - 2" ASPHALT CLASS B OVERLAY WHERE MULTIPLE CROSSINGS BY SAME UTILITY. SEE SEC. 10-8.2.4.
 - EXISTING PAVEMENT
 - LONGITUDINAL TRENCH - 8" ASP OR 3" ASP - 4" ATB SEE SEC. 10-8.2.4.
 - TRANSVERSE TRENCH - 8" ASP OR 3" ASP - 4" ATB SEE SEC. 10-8.2.4.
 - NON TRAVELLED AREAS - 6" GRAVEL SHOULDER SEE SEC. 6-11.
 - NATIVE MATERIAL, BANK RUN GRAVEL OR CORNING DENSITY FILL. SEE SEC. 10-8.2 & 10-8.4.
 - NEAT LINE OUT, CLEAN, HEAT & TACK EDGES WITH SEALER 88-1 SEAL WITH HOT ASPHALT CEMENT.
 - TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL BE ACCOMPLISHED BY USING COLO. M.S. ATB OR STEEL PLATES.
 - PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 8-4 OF THE WSDOT/TRA SPECIFICATIONS.
 - SEE TEXT SECTION 10-8 FOR DEPTH OF COVER.



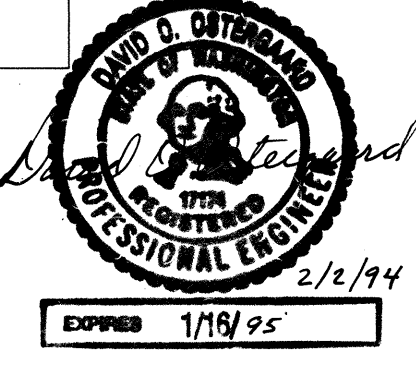
SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

AS BUILT
AS INDICATED BY "AB"

SNOHOMISH COUNTY
COMMUNITY DEVELOPMENT DIVISION
APPROVED FOR CONSTRUCTION *RW ONLY*
by *Ronald R. Sleight* 5/17/99
FOR RANDOLPH R. SLEIGHT P.E., P.L.L.C.
Right-of-Way Permit No. RW1478

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *Wm. E. Galt* 290.293
PHASE 1 ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *John Smith* 5/12/98



DATE	REVISION
9/13/93	ME
2/17/94	WJR
4/15/94	DKR
12/12/94	AS-BUILT STORED

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& ASSOC. INC. CONSULTING ENGINEERS
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 BELLEVUE, WA 98001
 (206) 259-6445

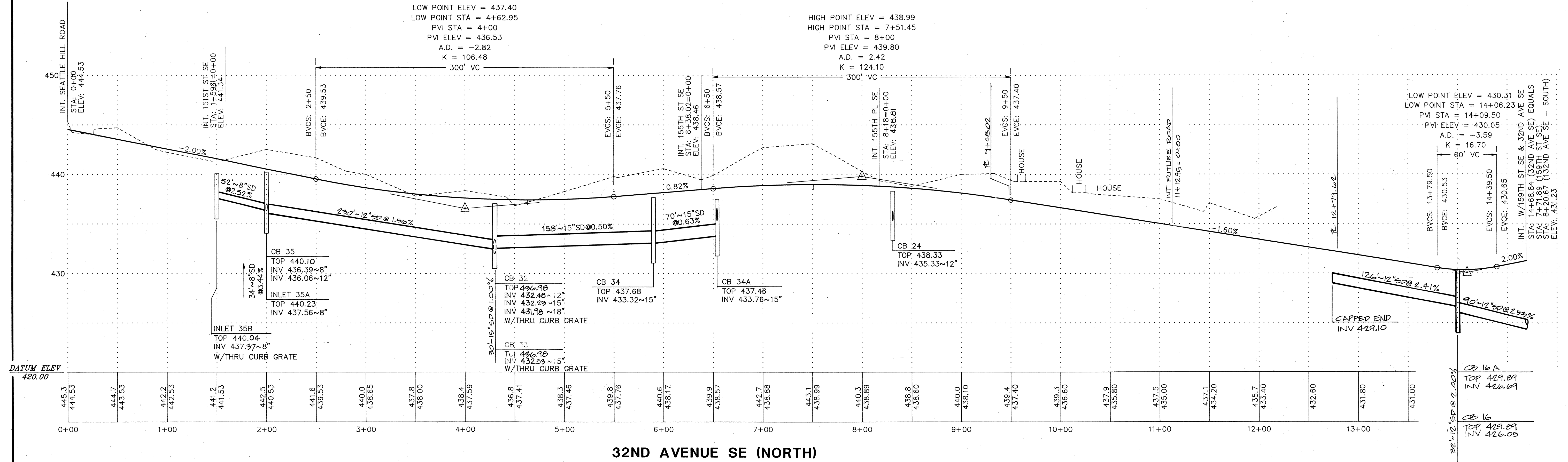
THE PARKS AT MILL CREEK
 ROAD & STORM DRAINAGE PLAN & PROFILE
 CITY OF MILL CREEK AND (T.E.S.C.P.) WASHINGTON

Designed by *ME*
 Checked *ME*
 Drawn by *ME*
 Checked *ME*
 As-built

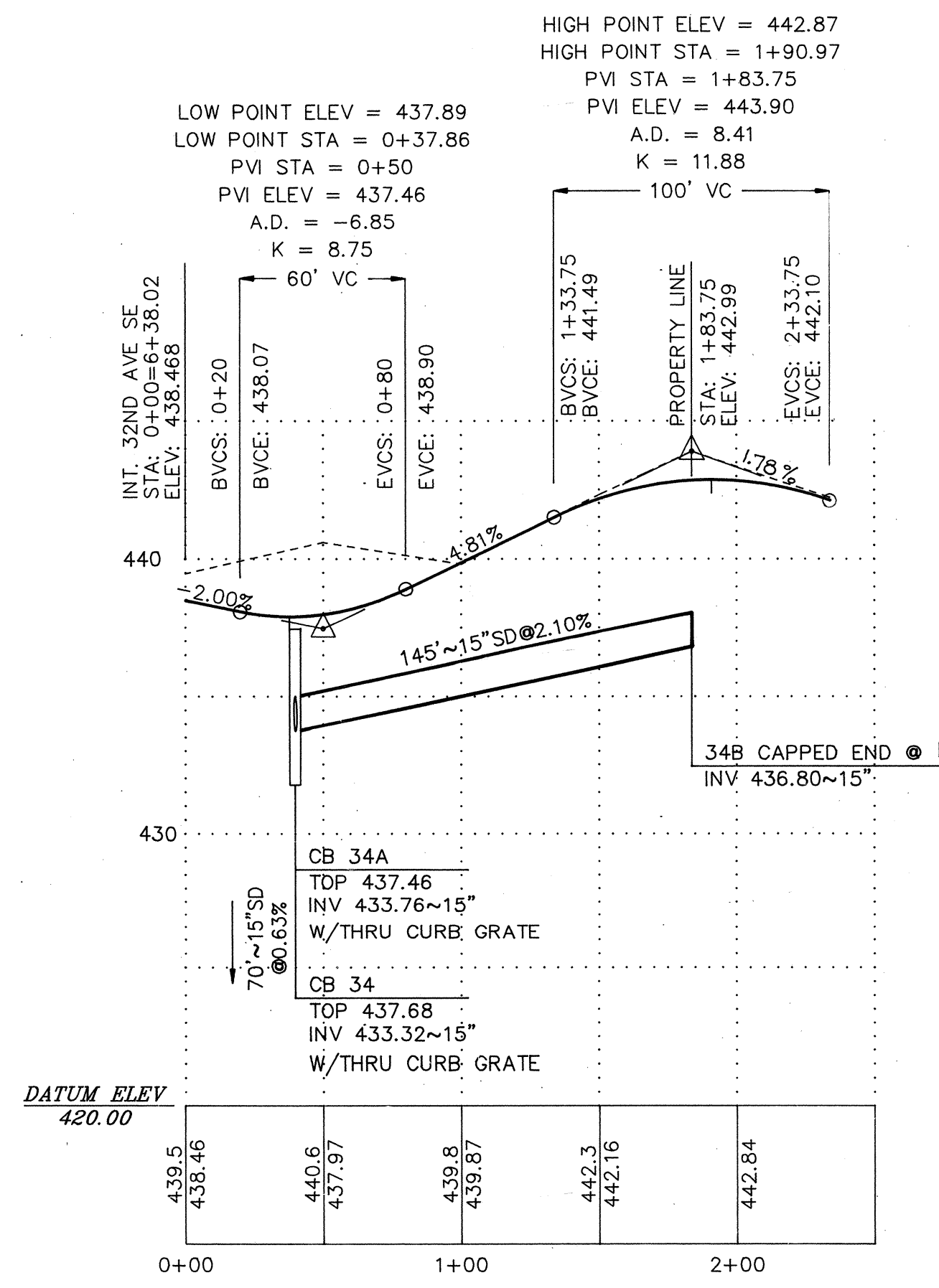
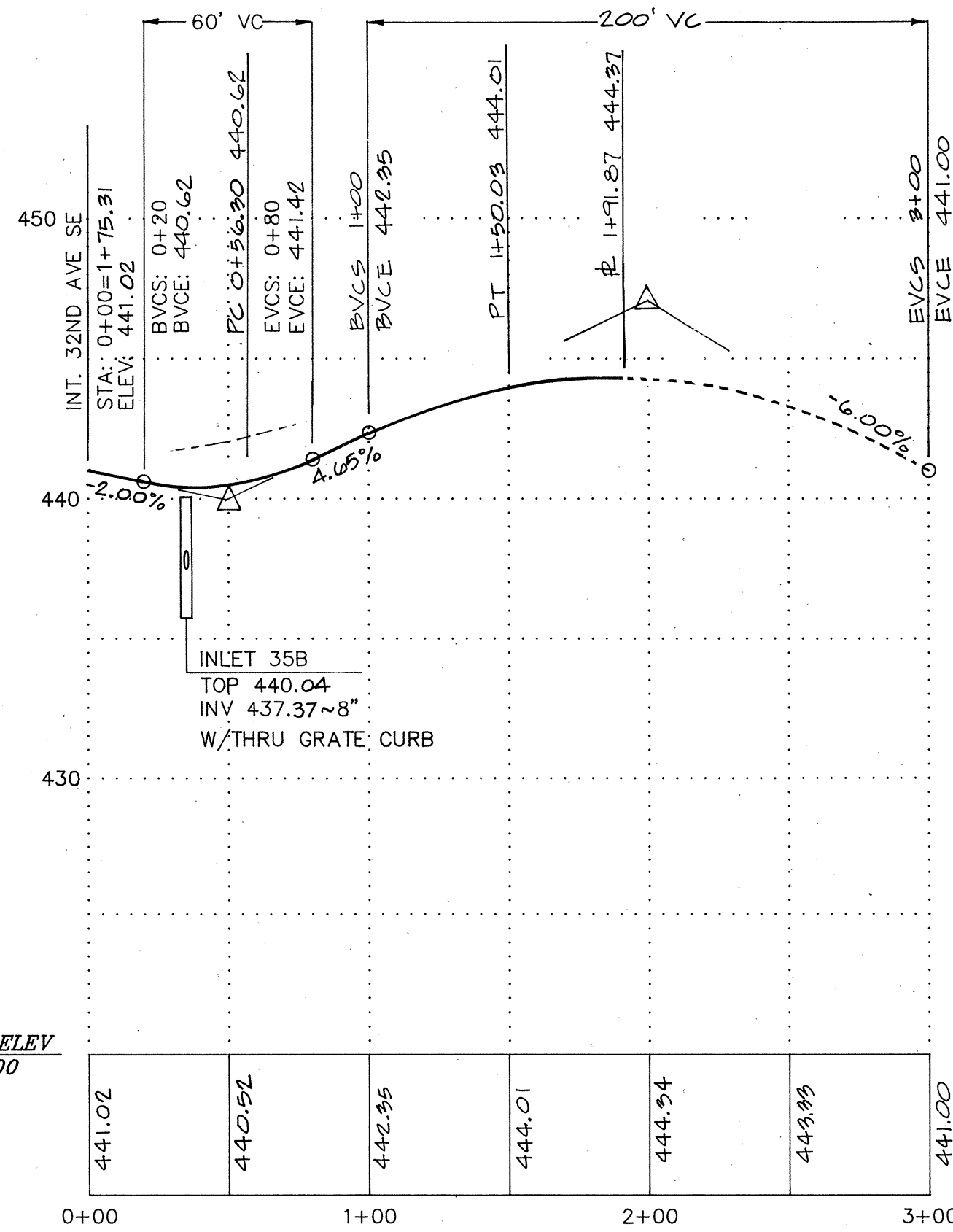
Sheet 5 of 16

Job No. 93129

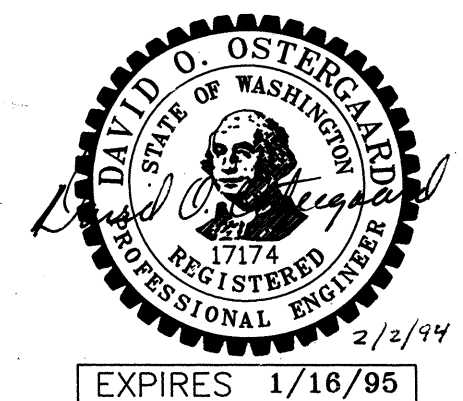
SEC 5, TWP 27N, RGE 5E, W.M.



LOW POINT ELEV = 440.44 HIGH POINT ELEV = 444.38
LOW POINT STA = 0+38.03 HIGH POINT STA = 1+87.32
PVI STA = 0+50 PVI STA = 2+00
PVI ELEV = 440.02 PVI ELEV = 447.00



SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



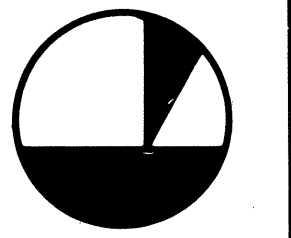
APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK

David O. Ostergaard 2/2/94
CITY ENGINEER DATE

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/10/94	ADDED 2 STAS	PC
4/15/94	REV ROAD 4	PC

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EVERETT, WA 98201
BELLEVUE, (206) 827-5854



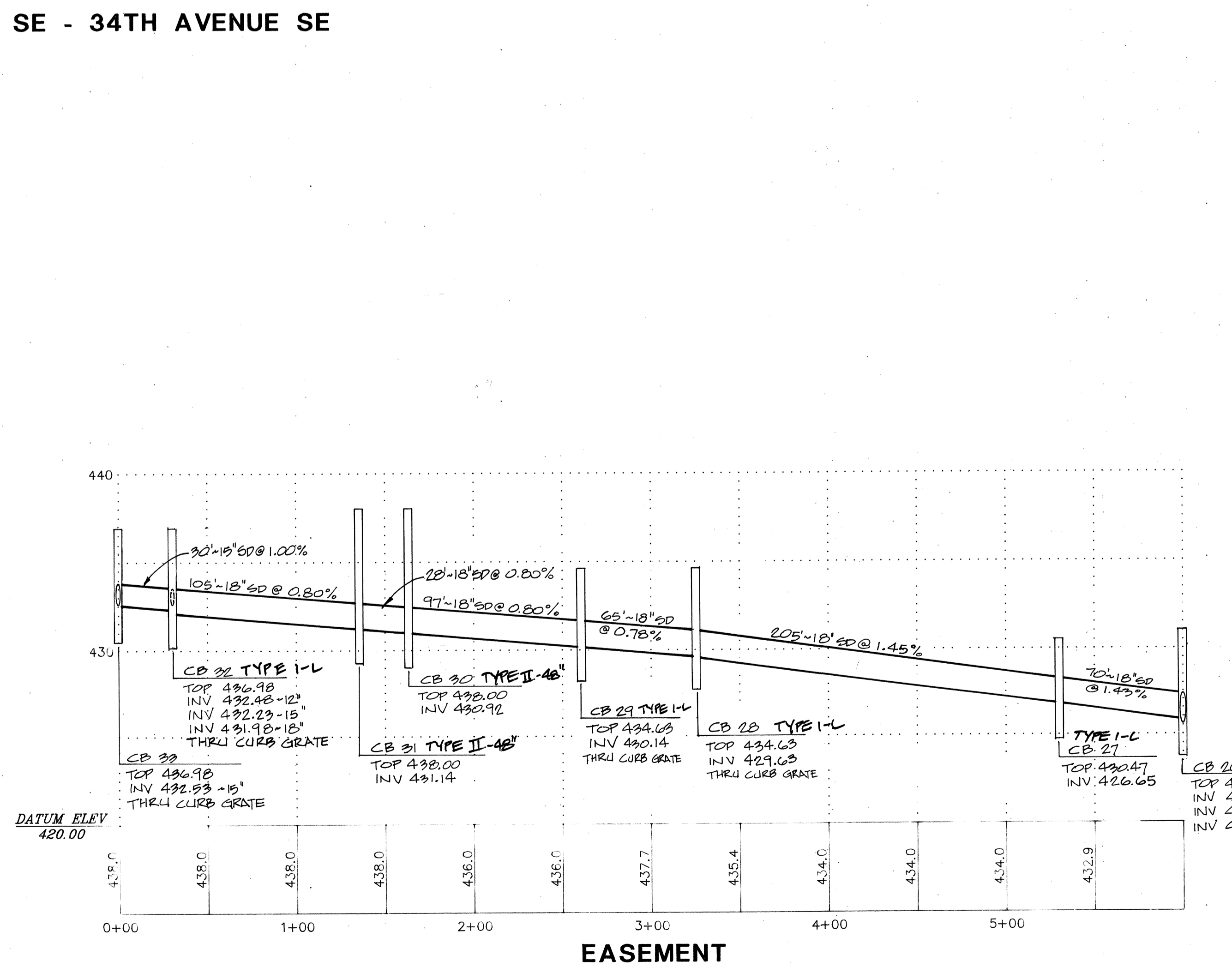
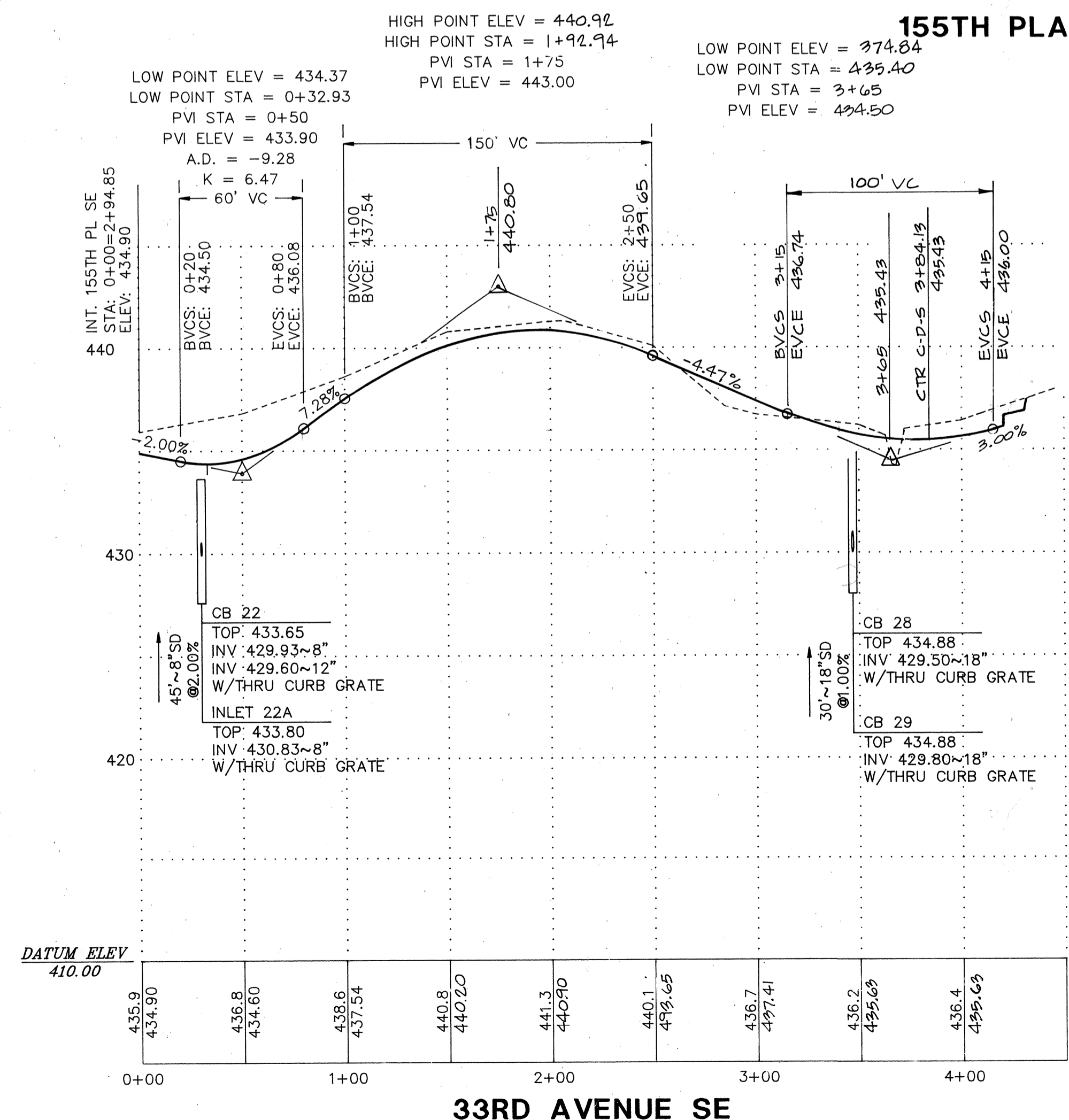
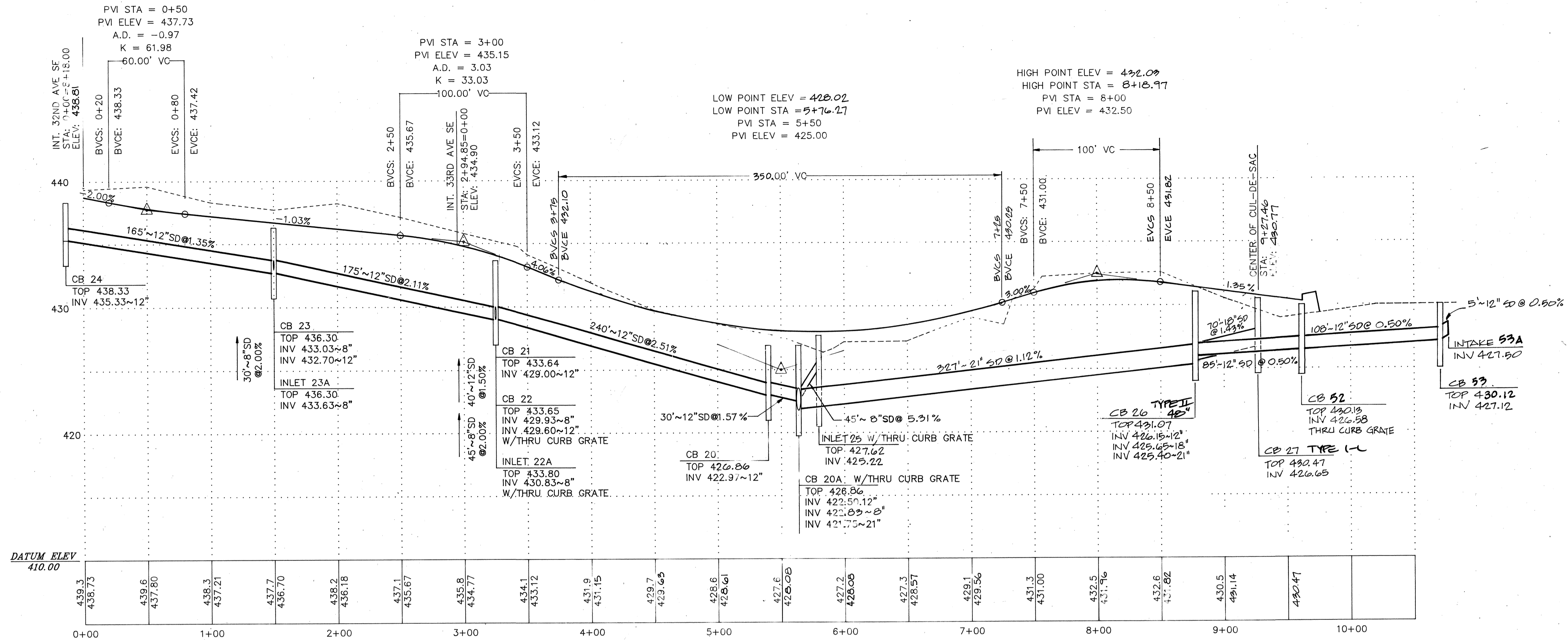
THE PARKS
AT MILL CREEK
ROAD + STORM DRAINAGE
CITY OF MILL CREEK WASHINGTON

Designed MF
Checked _____
Drawn MF
Checked _____
As-built _____

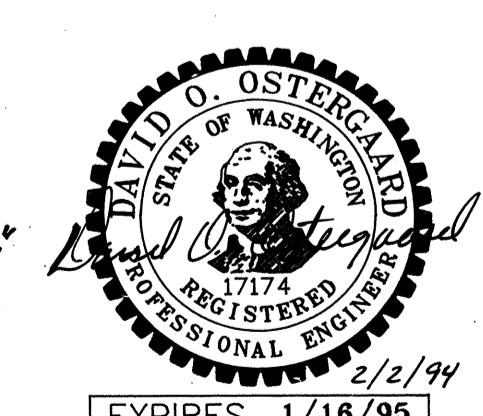
Sheet 6 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'



APPROVED FOR CONSTRUCTION
 CITY OF MILL CREEK

[Signature] 5/1/94
 CITY ENGINEER DATE

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/11/94	ADDED 4" DIA	ME
4/15/94	REV ROAD 4"	ME
5/19/94	REVISE TOP ELEV CB 23	KLC
5/19/94	CLARIFY CO TYPE 22-32	KLC

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 & ASSOC. INC. CONSULTING ENGINEERS
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 (206) 259-6445
 EVERETT, WA 98201
 BELLEVUE, (206) 827-5854

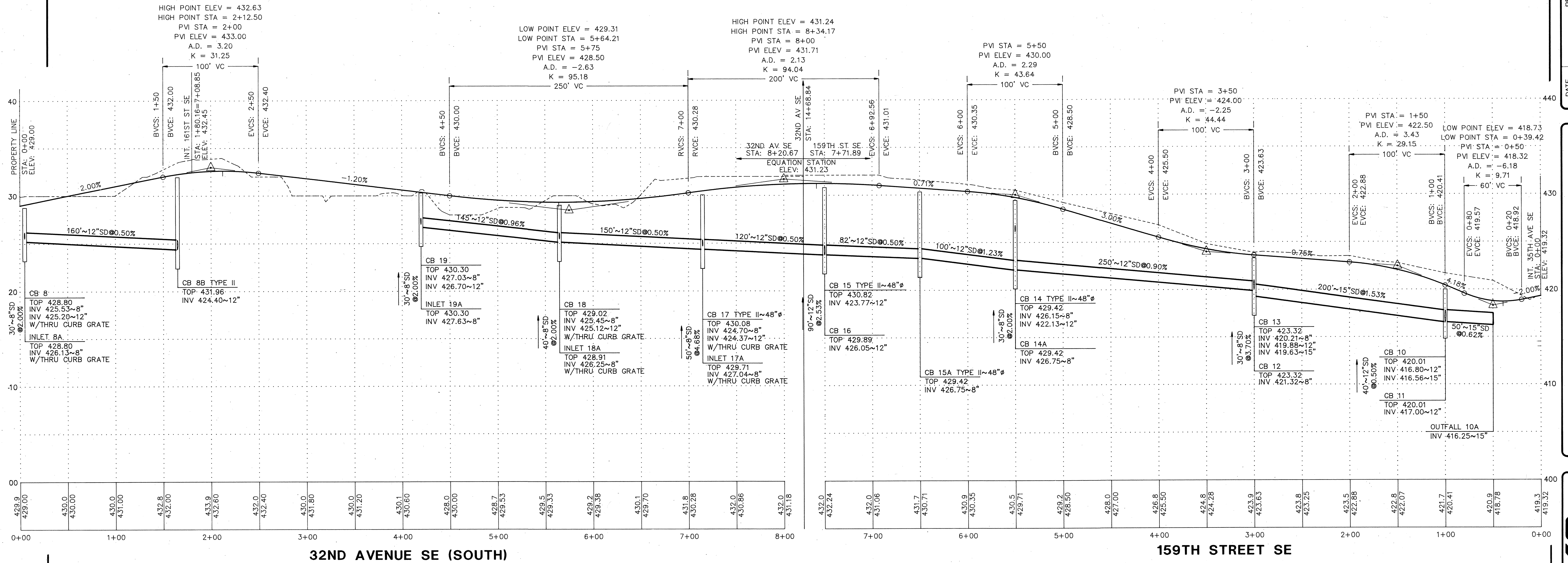
THE PARKS
AT MILL CREEK
ROAD + STORM DRAINAGE
 PROFILE
 CITY OF MILL CREEK WASHINGTON

Designed	ME
Checked	ME
Drawn	ME
Checked	ME
As-built	

Sheet 7 of 16

Job No. 93129

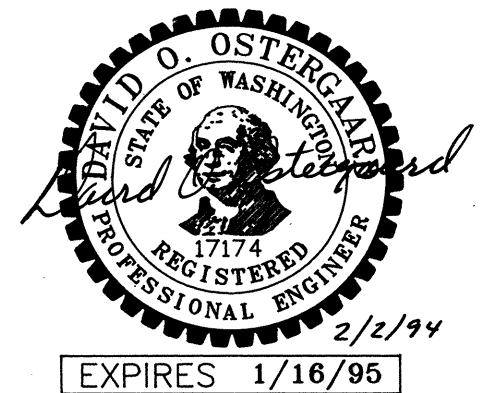
SEC 5, TWP 27N, RGE 5E, W.M.



DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/11/94	ADDED CURBS	JFZ

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THE PARKS
AT MILL CREEK
 ROAD + STORM DRAINAGE PROFILE
 CITY OF MILL CREEK WASHINGTON



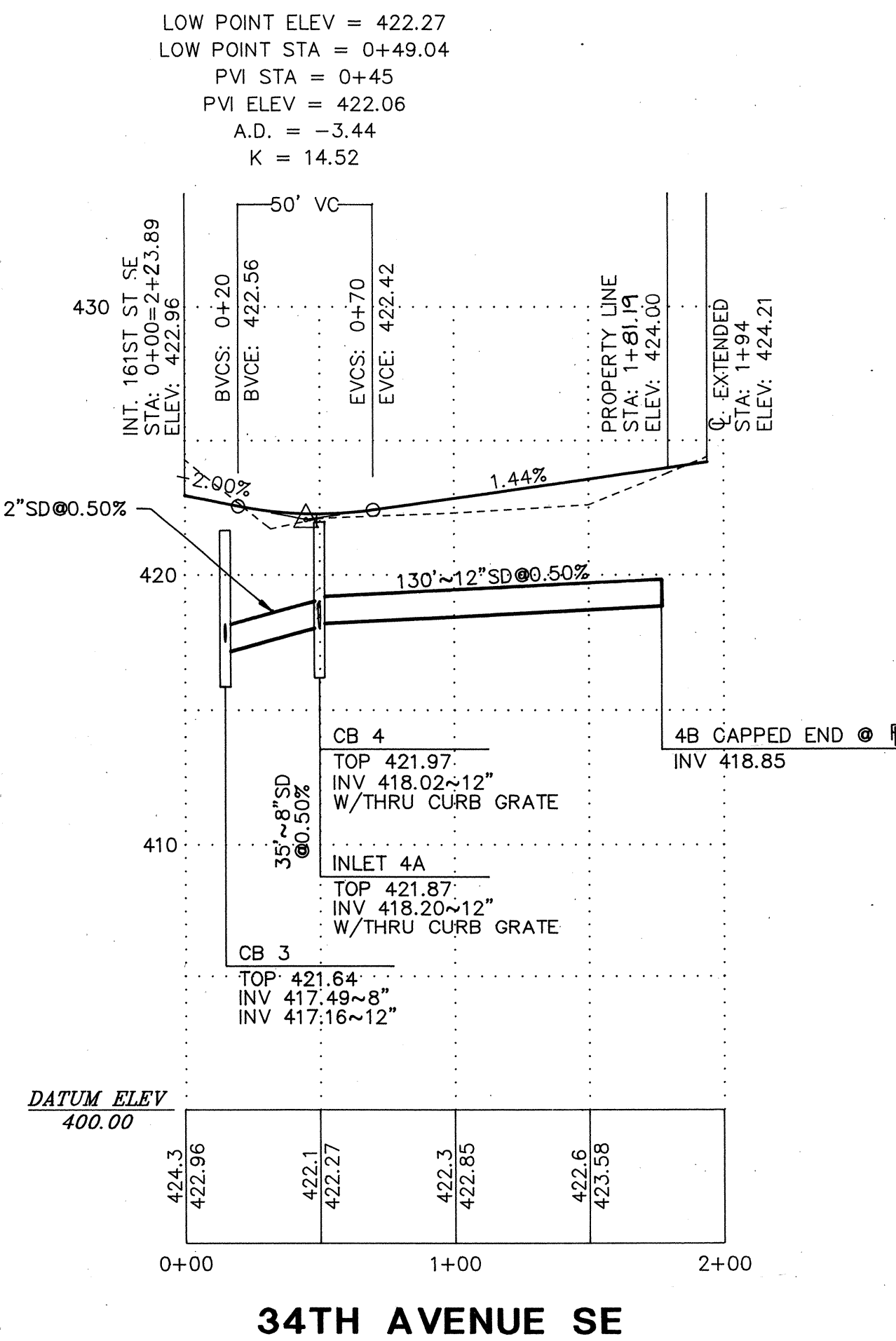
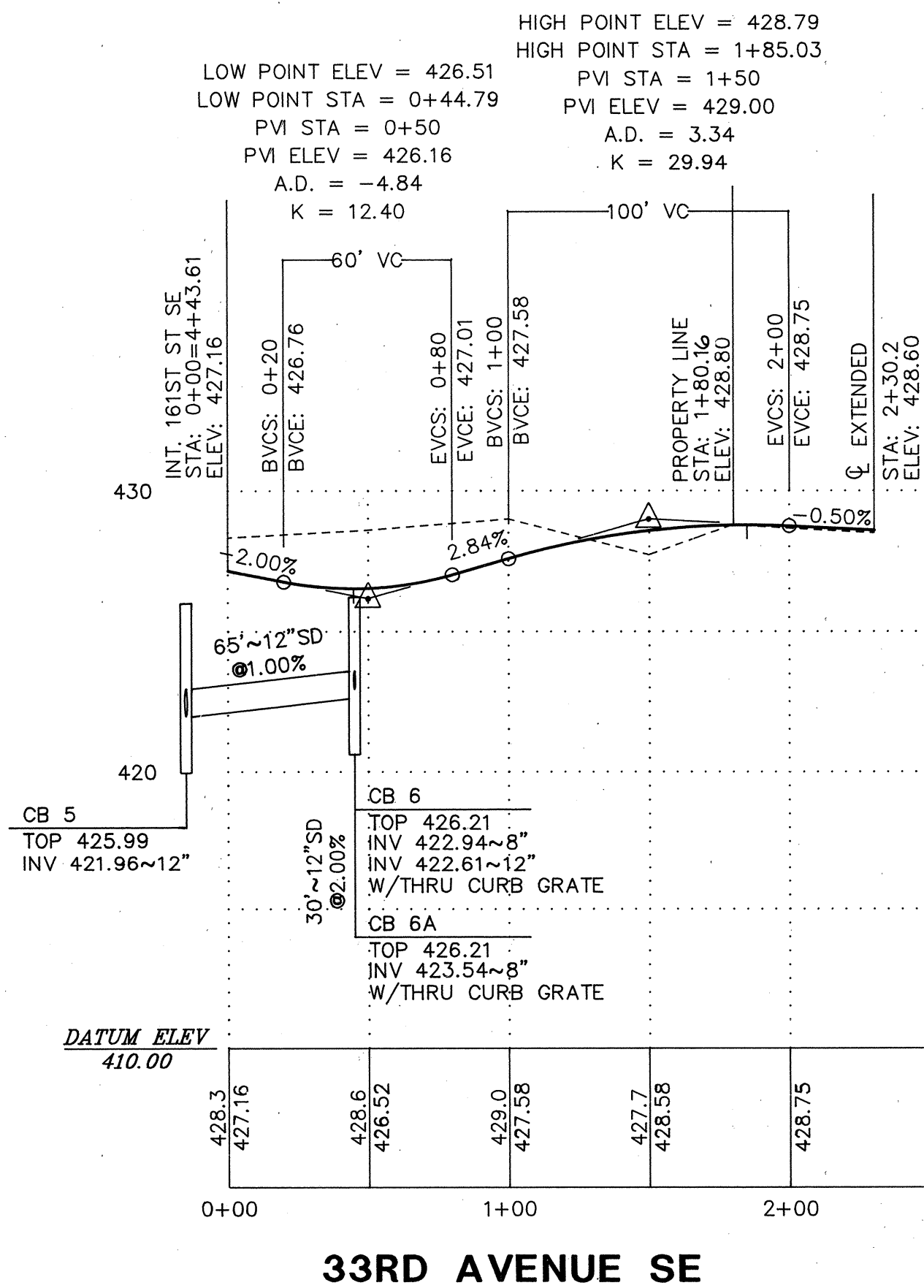
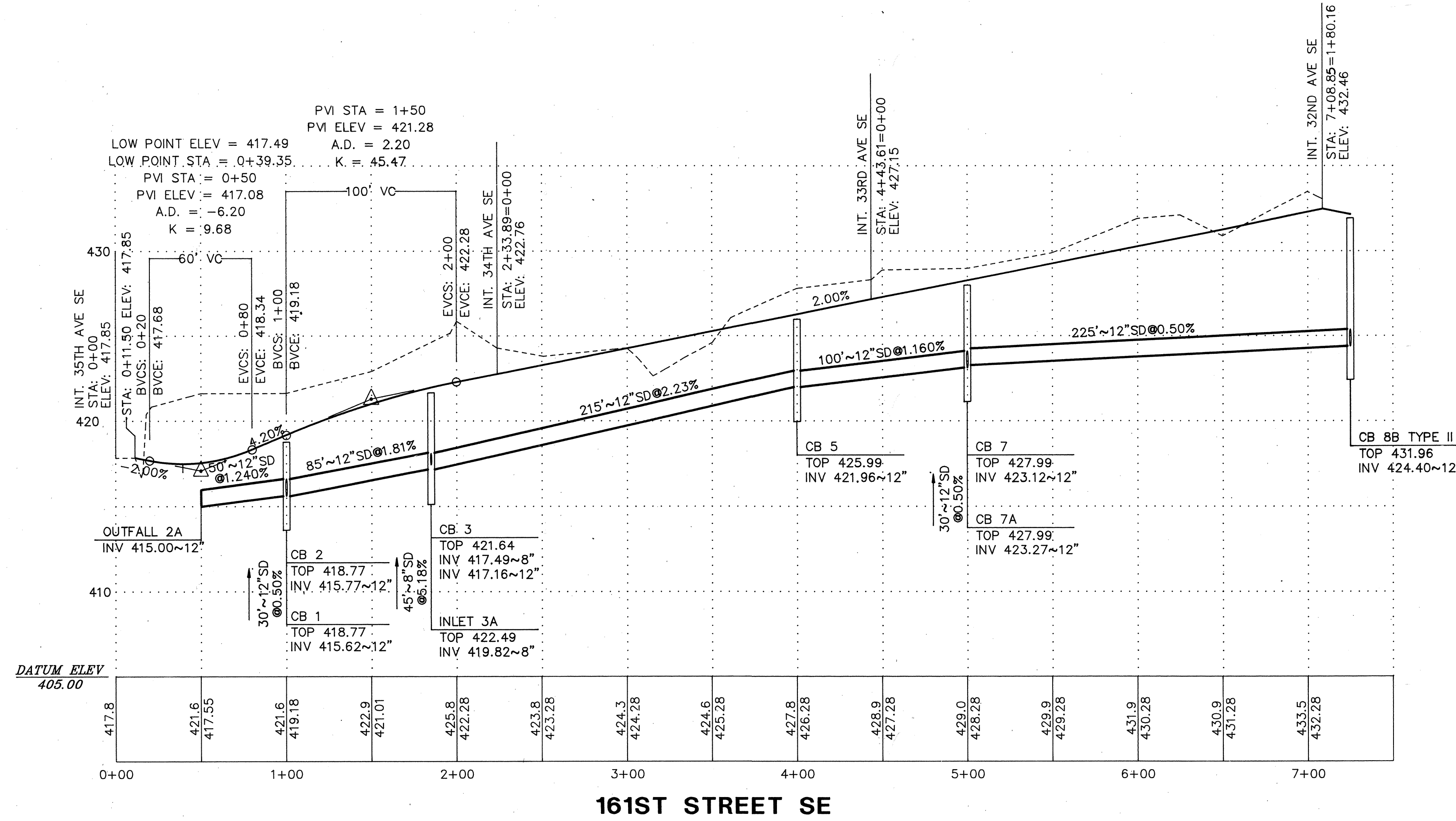
APPROVED FOR CONSTRUCTION
 CITY OF MILL CREEK
 [Signature] 5/2/94
 CITY ENGINEER DATE

Designed ME
 Checked
 Drawn ME
 Checked
 As-built

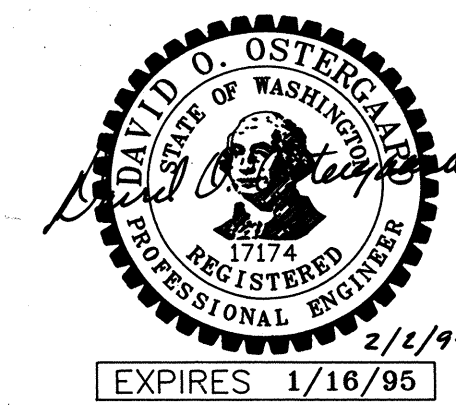
Sheet 8 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'



APPROVED FOR CONSTRUCTION
 CITY OF MILL CREEK

David J. Ostergaard
 CITY ENGINEER DATE 2/1/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/1/94	ADDED 4 STS	PZ

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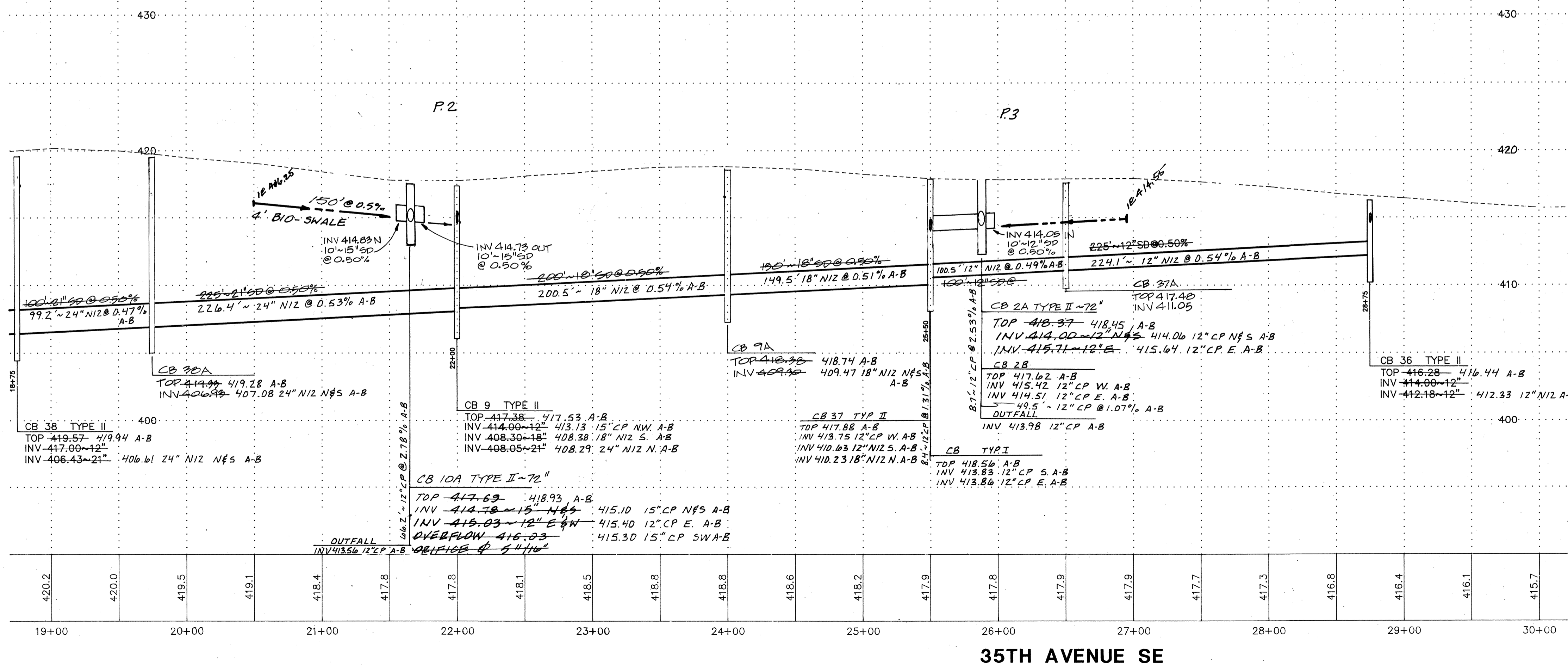
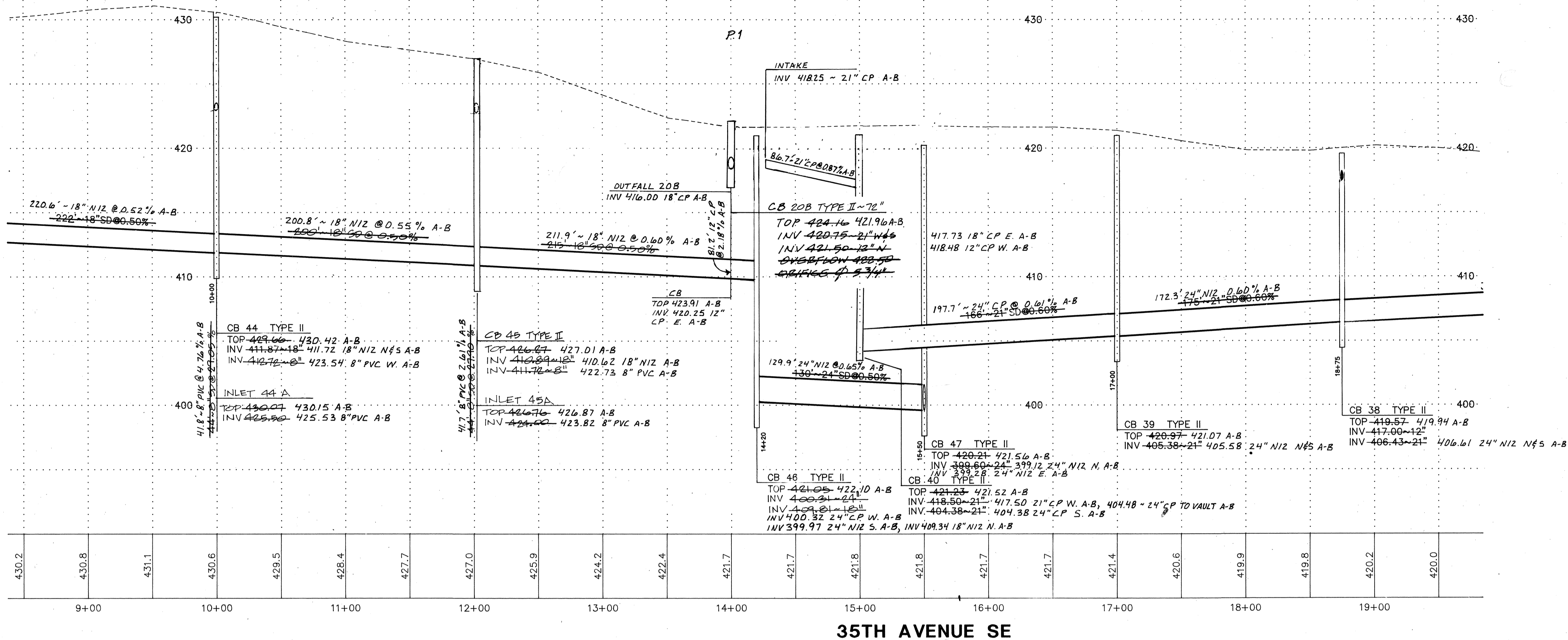
THE PARKS
AT MILL CREEK
 ROAD + STORM DRAINAGE PROFILE
 CITY OF MILL CREEK WASHINGTON

Designed ME _____
 Checked _____
 Drawn ME _____
 Checked _____
 As-built _____

Sheet 9 of 16

Job No. 93129

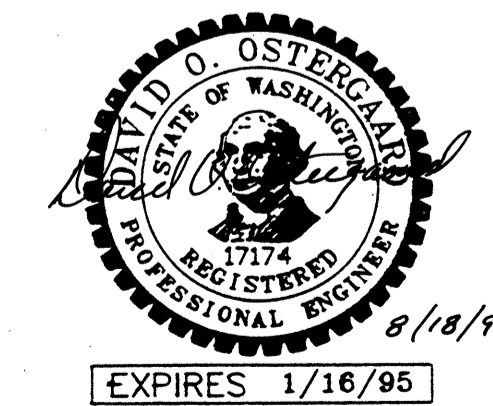
SEC 5, TWP 27N, RGE 5E, W.M.



AS BUILT
AS INDICATED BY "AB"

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 2/18/94
PHASE 1 ONLY



CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 5/6/94

DATE	REVISION
2/17/94	PER COUNTY REVIEW
3/7/94	REVISED SP
4/15/94	REV PER COUNTY
12/12/94	AS-BUILT STORM

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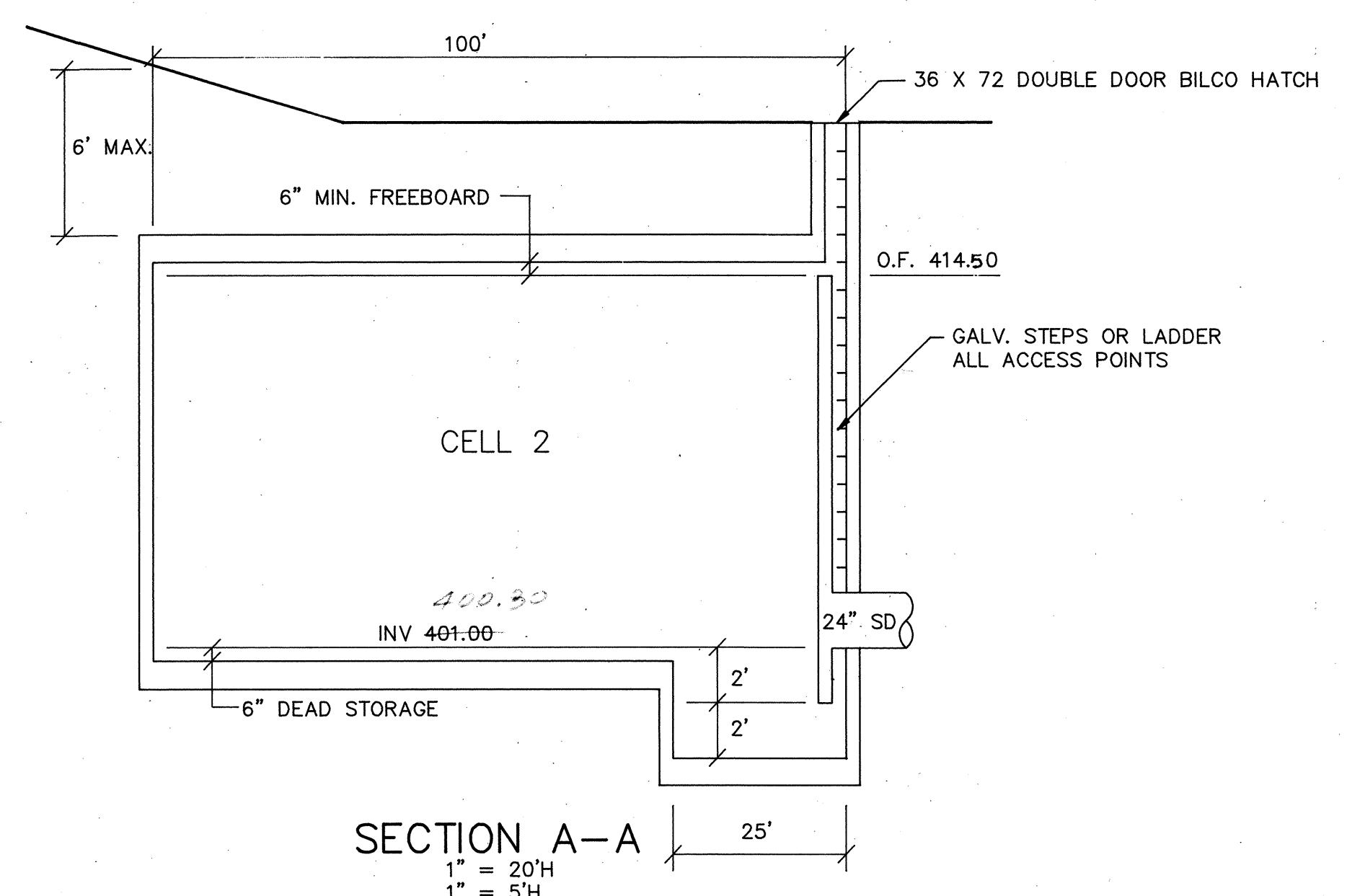
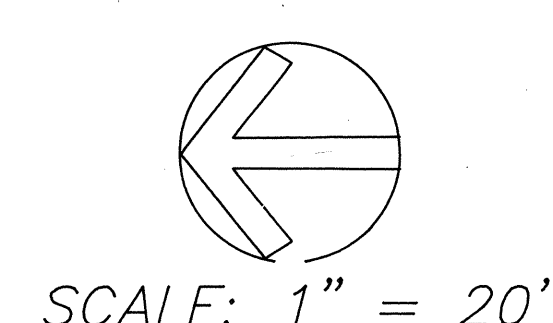
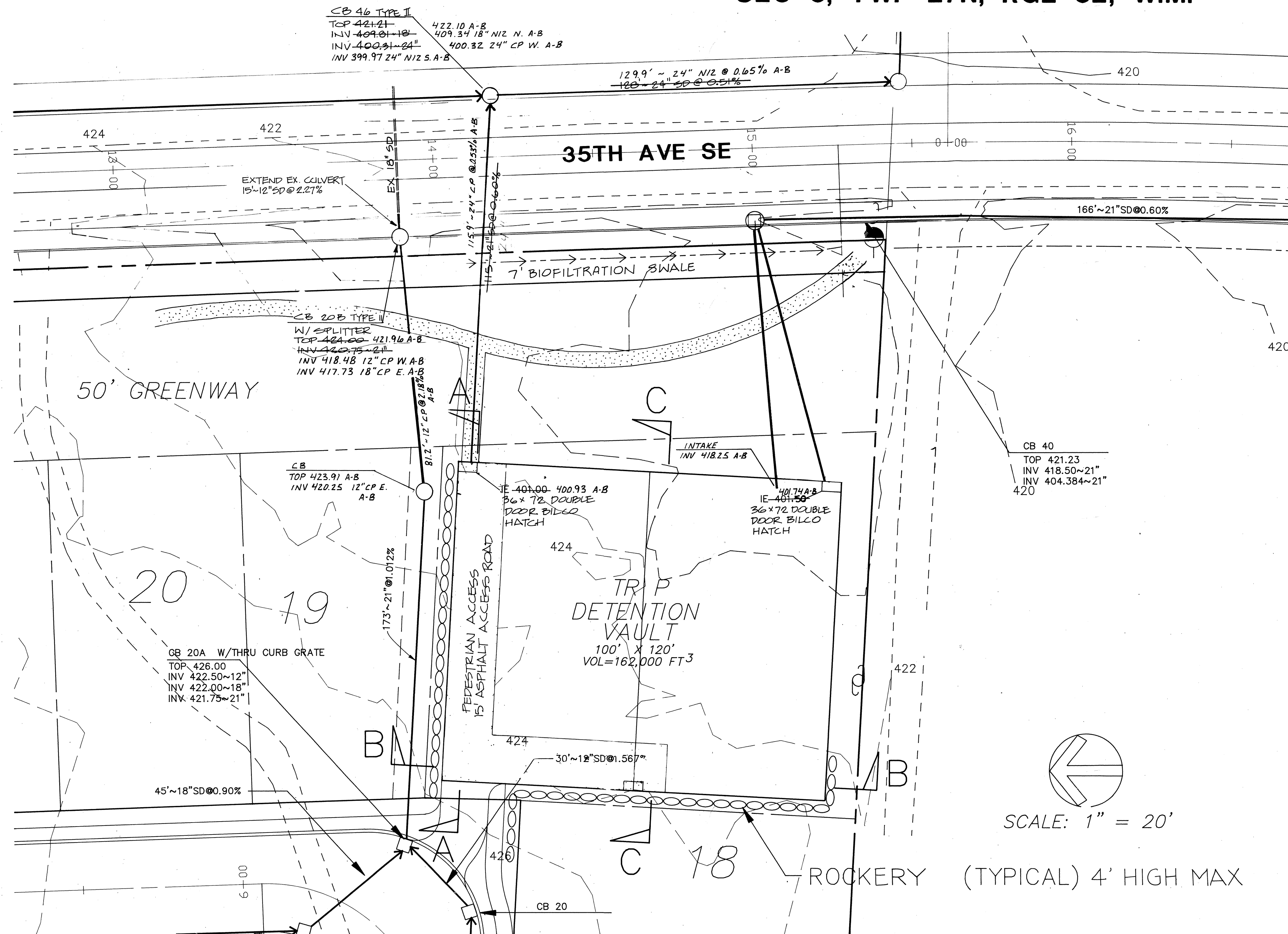
THE PARKS
AT MILL CREEK
ROAD + STORM DRAINAGE
CITY OF MILL CREEK WASHINGTON

Designed	ME
Checked	
Drawn	ME
Checked	
As-built	

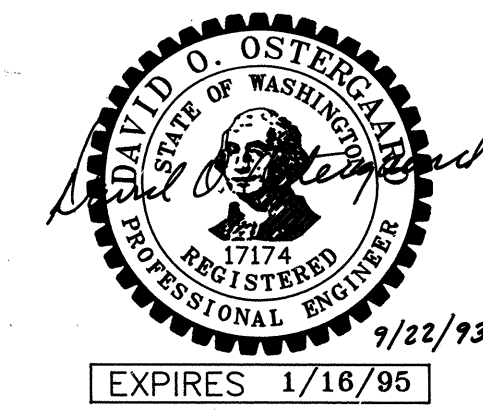
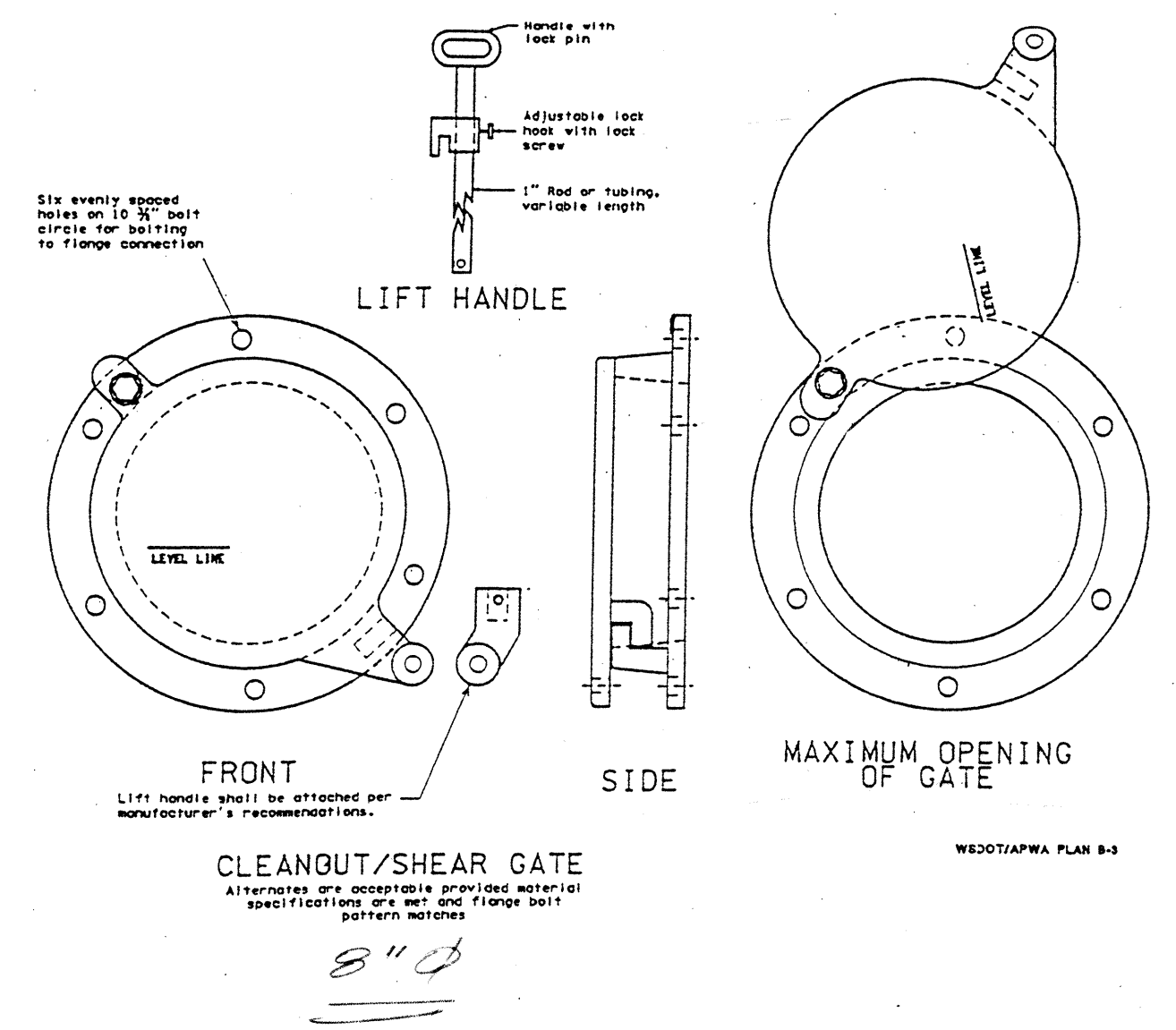
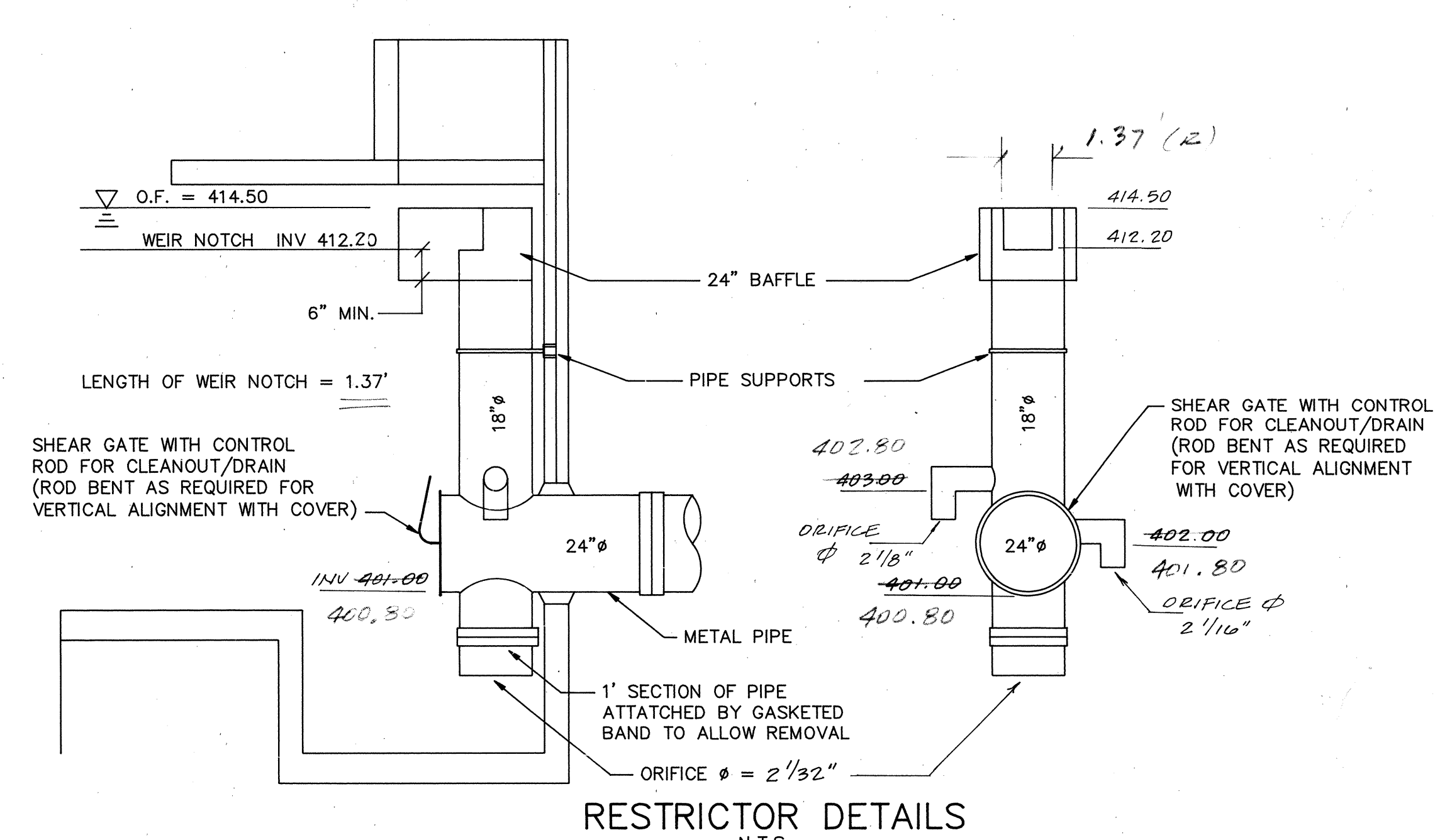
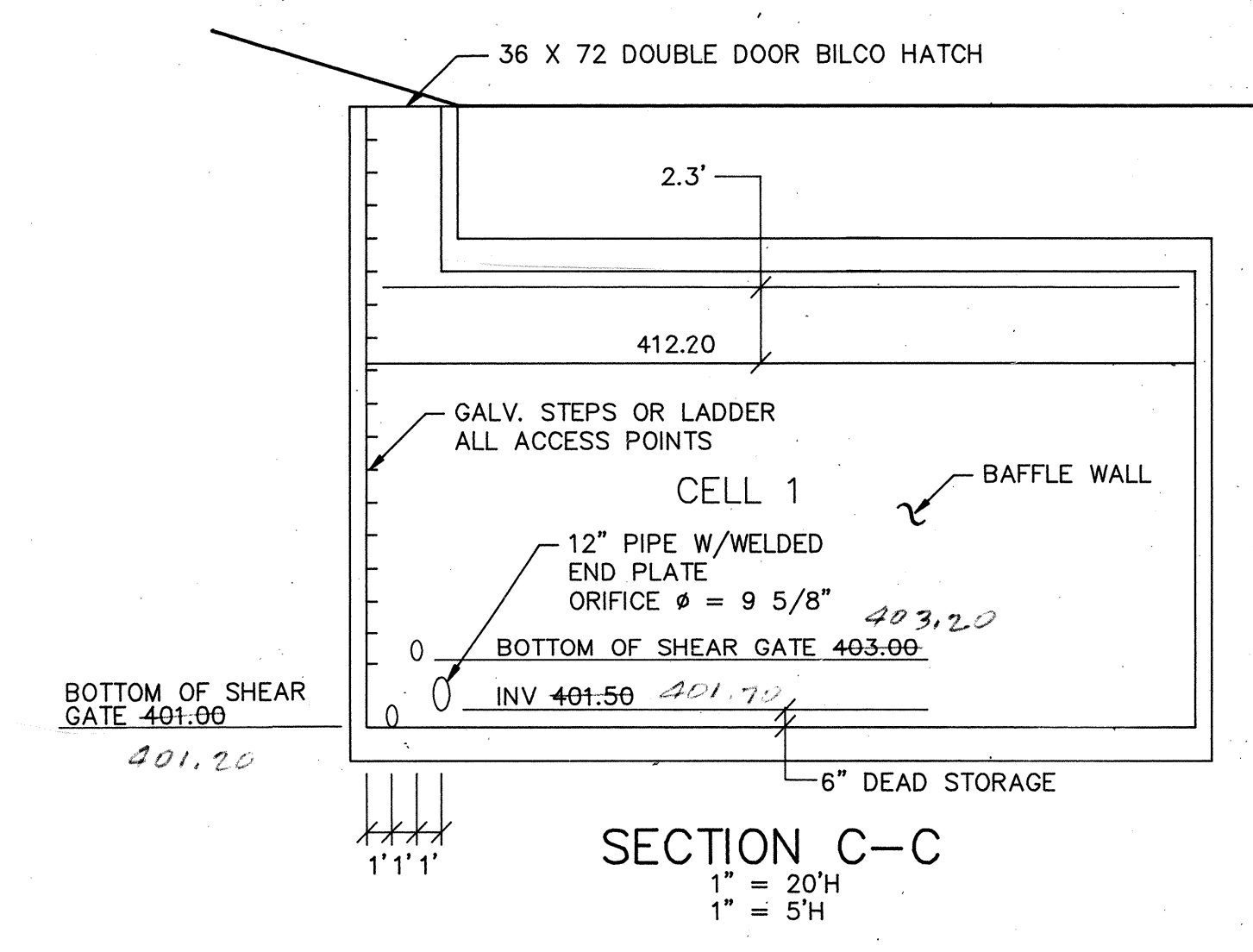
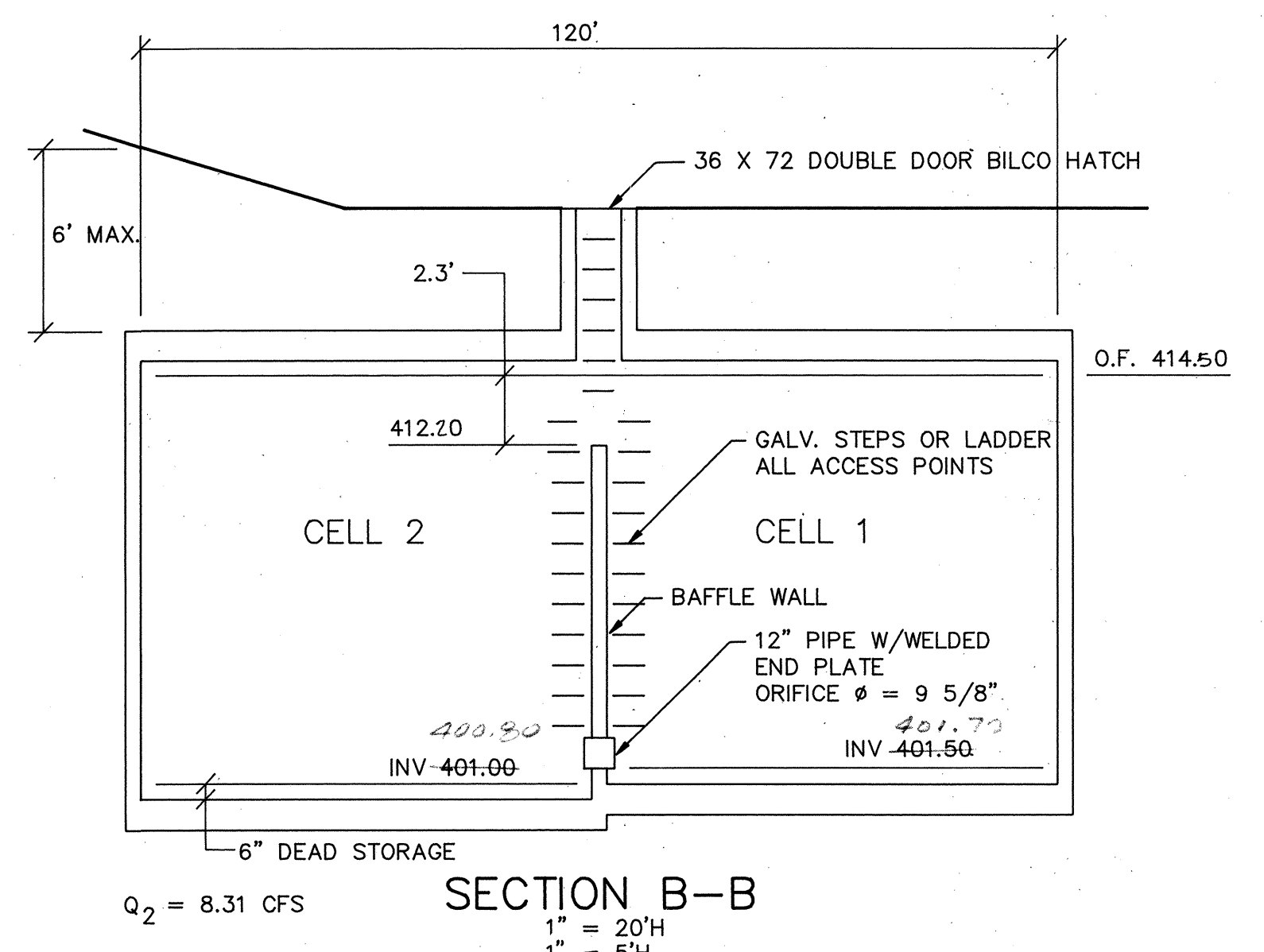
Sheet 10 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



NOTES:
PROVIDE TWO 8" SHEAR GATES MOUNTED TO BAFFLE WALL ON CELL 1 SIDE WITH BOTTOMS SET AT ELEVATIONS 401.00 AND 403.00. ADJACENT TO ORFICE PIPE AS SHOWN.



CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 9/22/93

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 5/6/94

PHASE 1 ONLY

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
4/10/94	PER CONSULTANT REVIEW	ME
12/5/94	AS-BUILT (A-B)	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1
BELLEVUE, WA 98001
(206) 259-6445

THE PARKS AT MILL CREEK
VAULT PLAN + DETAILS
CITY OF MILL CREEK

Designed ME	Checked
Drawn ME	Checked
As-built	

Sheet 11 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.

GENERAL PLAN NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1997 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14) COMPACTING EARTH EMBANKMENTS METHOD B.
- DISTURBED SOIL SHALL BE GRASS SEEDDED IF NOT WORKED WITHIN 30 DAYS.

STORM DRAINAGE NOTES

- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
- THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6", 4" CEMENT CONCRETE MAXIMUM DEPTH 8", THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO SPECIFICATION 2-03.3(14)C, METHOD b & c.
- ALL CATCH BASINS TO BE TYPE I UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
- ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
- ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
- CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435, 5435A, OR 50503A. MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. ALL SHALL BE VANE GRATE EXCEPT AT THRU CURB WHICH SHALL BE HERRINGBONE.
- PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND OR BEHIND SIDEWALK DRAINS AS REQUIRED. STUB OUTS SHALL BE MARKED WITH A 2" X 4" AND LABELED "STORM."
- STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
- PIPE SPECIFICATIONS: PIPE MATERIAL, JOINTS AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9.05 AND AASHTO AND ASTM DESIGNATIONS AS NOTED BELOW.

MATERIALS ALLOWED FOR STORM DRAIN LINES:

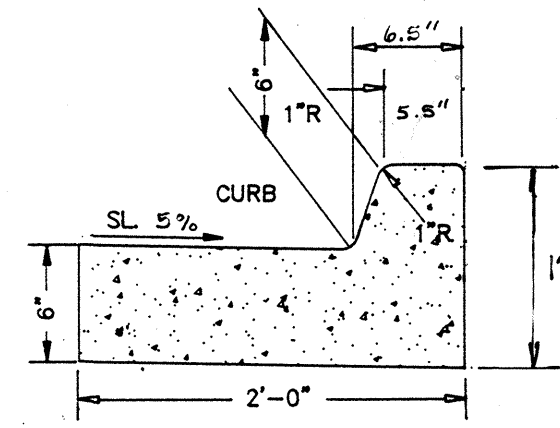
- PLAIN CONCRETE PIPE
- REINFORCED CONCRETE PIPE
- ALUMINUM SPIRAL RIB PIPE

ALLOWABLE JOINTS:

- CONCRETE PIPE SHALL BE RUBBER GASKETED
- SPIRAL RIB PIPE SHALL BE "HAT BANDED" WITH NEOPRENE GASKETS

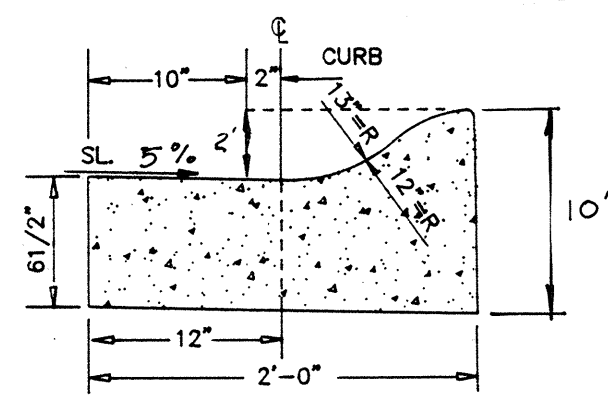
CONSTRUCTION SEQUENCE

- ATTEND PRE-CONSTRUCTION MEETING. (INCLUDING EXCAVATION CONTRACTOR)
- INSTALL SILT FENCES AND BARRIER FENCES WHERE SPECIFIED.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE.
- FLAG CLEARING LIMITS. CALL CITY FOR INSPECTION AND APPROVAL. CLEAR FOR AND INSTALL SEDIMENT TRAPS, INTERCEPTOR DITCHES AND CHECK DAMS.
- CLEAR AND GRADE ONSITE AREAS AS INDICATED.
- CONSTRUCT PERMANENT STORM DRAINAGE SYSTEM AND UTILITIES AND PROVIDE C.B. PROTECTION.
- FINAL GRADE/PAVEMENT.
- HYDROSEED AND MULCH ALL EXPOSED AREAS.
- FLUSH STORM DRAINAGE SYSTEM.
- MAINTAIN TEMPORARY FACILITIES THROUGH THE COURSE ON CONSTRUCTION UNTIL SITE IS STABILIZED AND POTENTIAL FOR EROSION HAS PASSED.



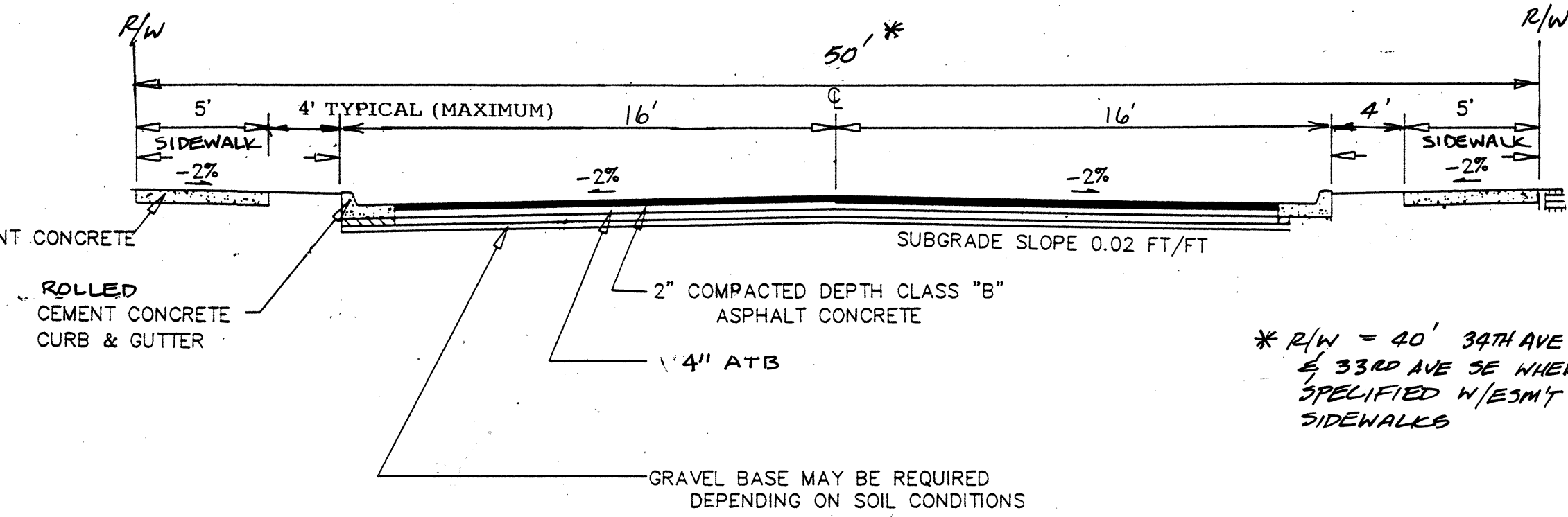
SECTION: CEMENT CONCRETE VERTICAL CURB

SCALE: 1" = 1'

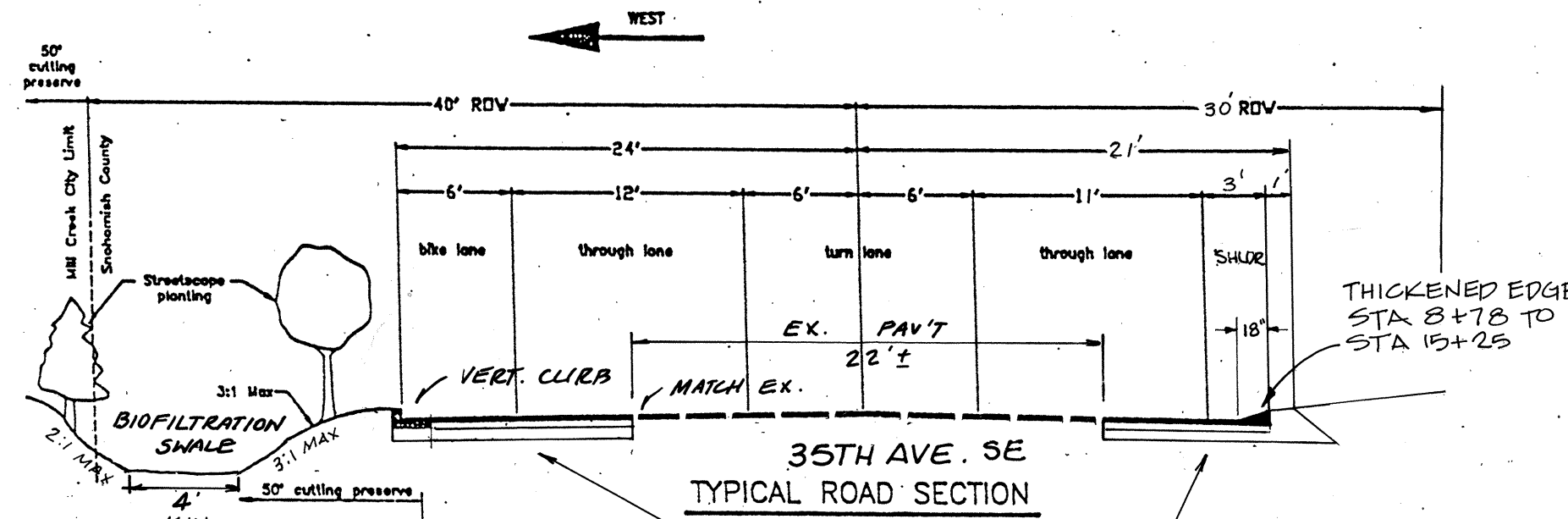


SECTION: CEMENT CONCRETE ROLLED CURB

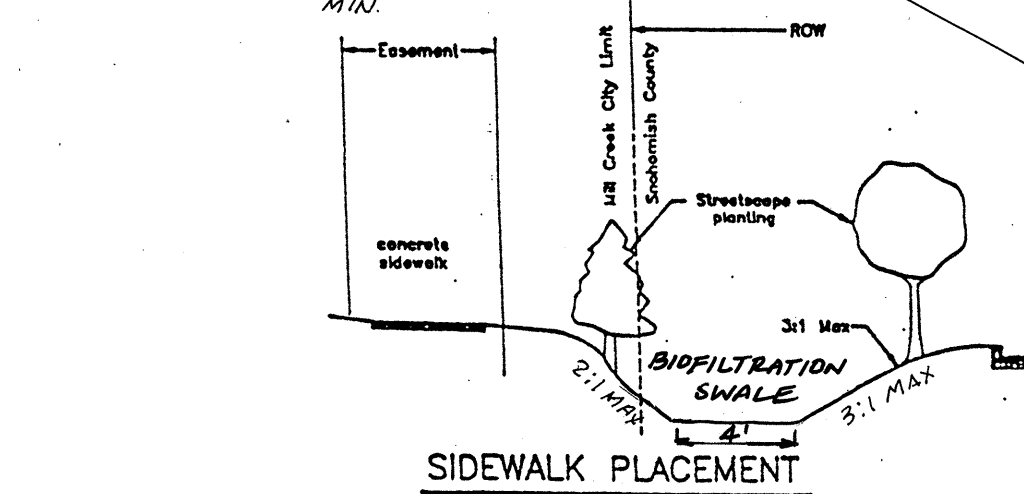
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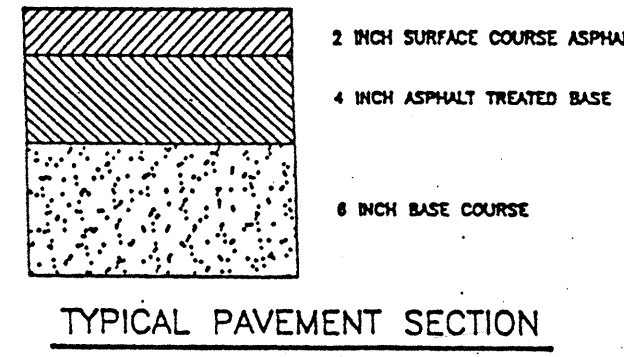
TYPICAL ROAD SECTION - ONSITE NTS



35th Avenue SE Cross Section NTS



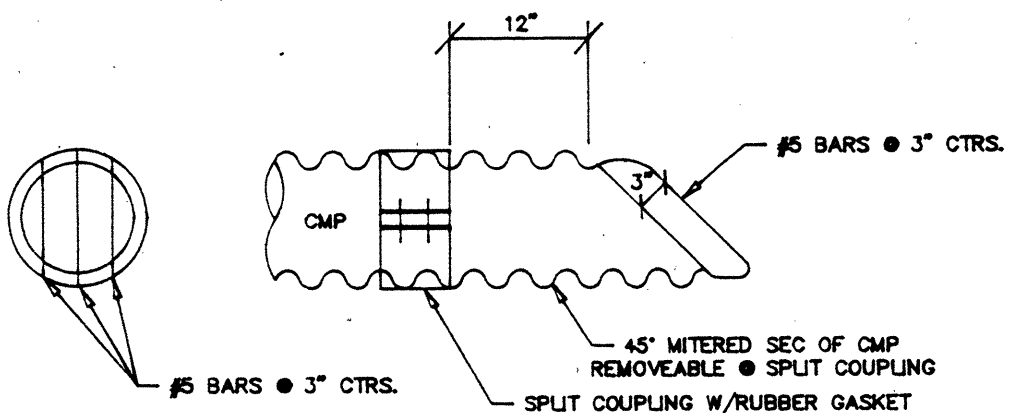
SIDEWALK PLACEMENT



TYPICAL PAVEMENT SECTION

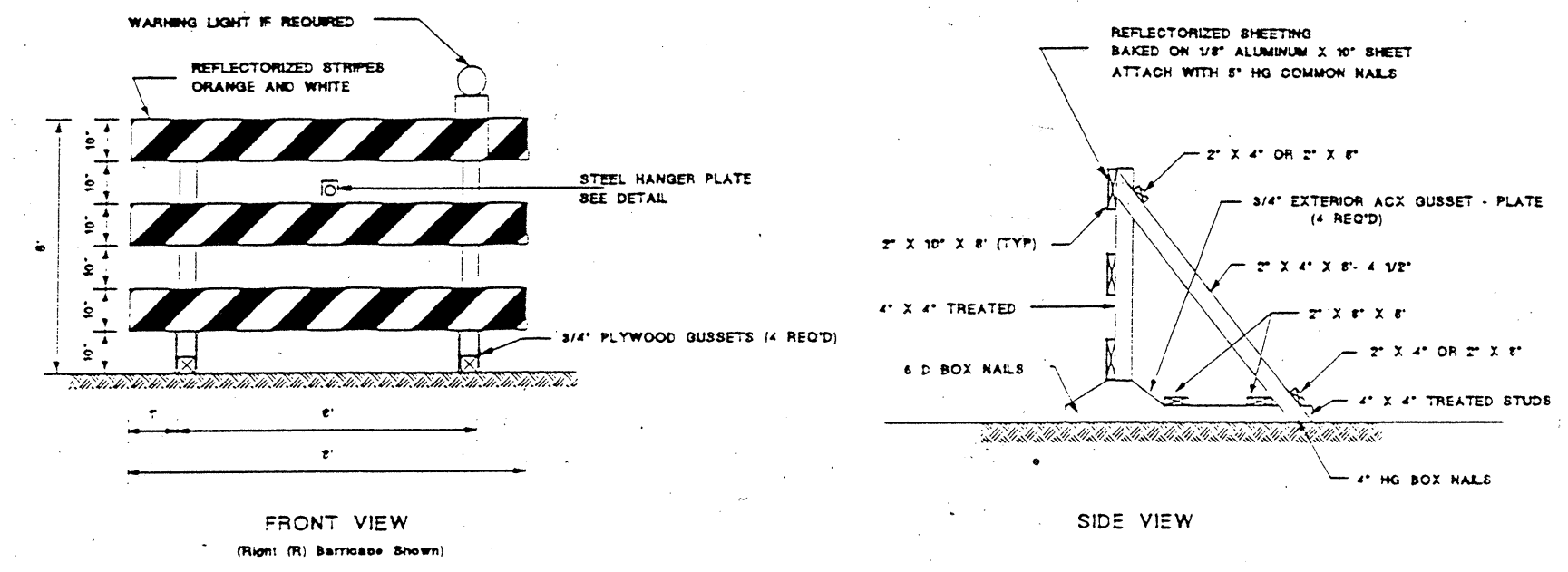
SIDEWALK TO MEANDER - LOCATION TO BE APPROVED BY THE CITY IN THE FIELD.

35th Avenue SE Cross Section



TYPICAL TRASH SCREEN

- NOTE:
- West side drainage shall be grass lined with a max. road side slope of 3:1. For side slope shall be max. or may require a retaining wall structure.
 - Control weirs shall be as approved by Snohomish County's Surface Water Management.
 - Street scope planting shall be performed as approved by the City of Mill Creek.
 - No earth cuts shall be allowed in the 50' cutting preserve without approval by the City of Mill Creek.
 - SideWalk placement shall be within the 50' cutting preserve as approved by the City of Mill Creek.

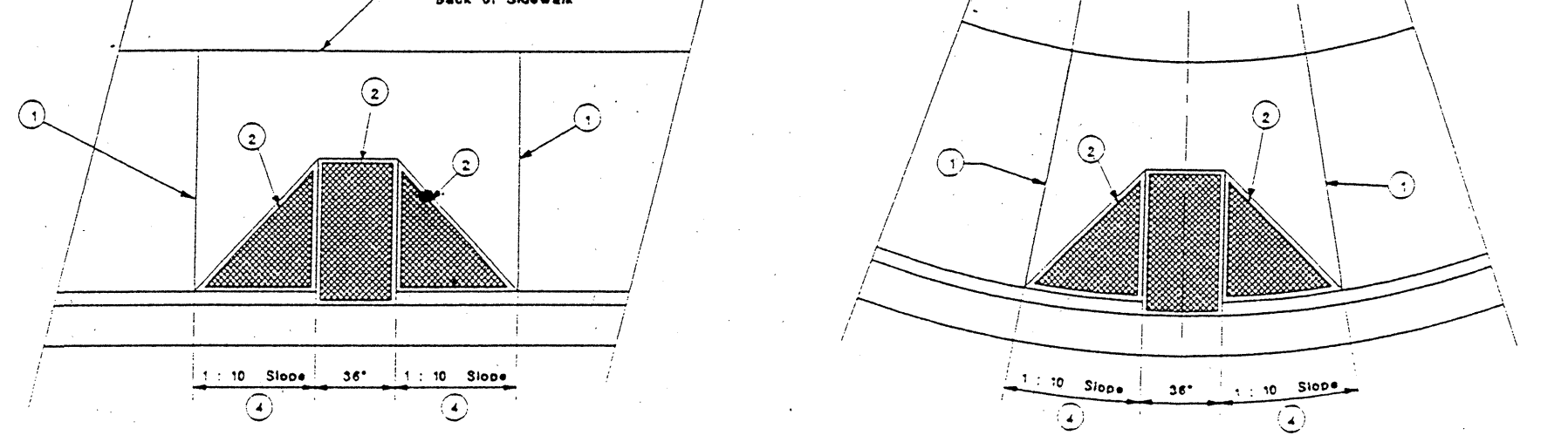


NOTES:

- BARRICADES SHALL BE INSTALLED IN ACCORDANCE WITH PART VI OF THE MUTCD OR BETTER.
- LUMBER SHALL BE STANDARD GRADE OR BETTER.
- RIGHT (R) BARRICADES ARE PLACED TO THE RIGHT OF TRAFFIC. LEFT (L) BARRICADES ARE PLACED TO THE LEFT OF TRAFFIC.
- WHERE A BARRICADE(S) EXTENDS ENTIRELY ACROSS A ROADWAY, THE STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING. WHERE BOTH RIGHT AND LEFT TURNING ARE PROVIDED, THE CHEVRON STRIPES SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.

TYPE III BARRICADE

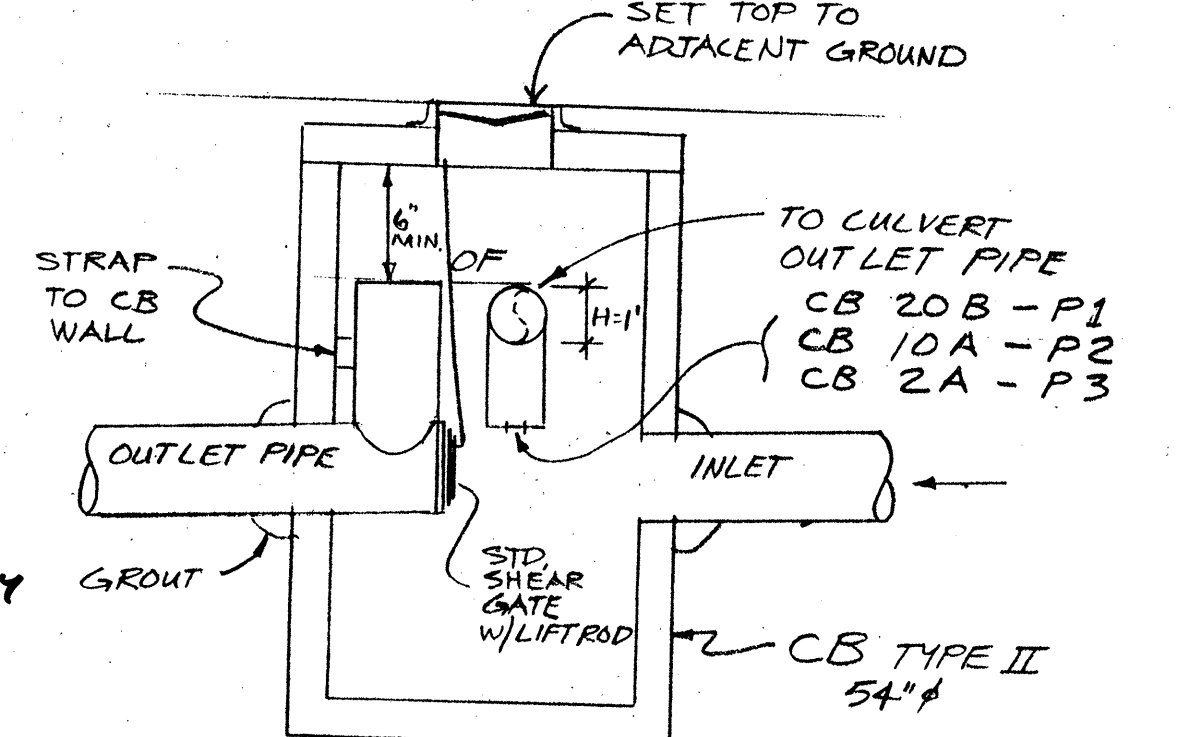
THE DEVELOPER SHALL PROVIDE APPROPRIATE SIGNAGE AT THE PLANNED STREET ENDS AT 32ND, 33RD, AND 34TH AVENUES, 155TH STREET AND THE UNNAMED STREET IN DIVISION I TO INDICATE FUTURE CONNECTIONS TO FUTURE DEVELOPMENTS. THE SIGNS SHALL INCLUDE A MAP OF THE AREA AND APPROPRIATE TEXT. ACTUAL SIGN PLAN SHALL BE SUBMITTED AND APPROVED BY THE CITY.



NOTES:

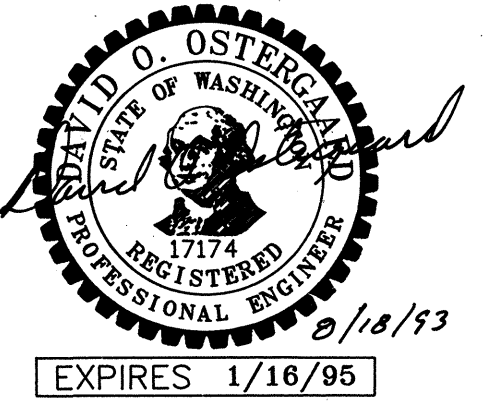
- FULL DEPTH EXPANSION JOINT, 3/8" MIN. WIDTH, PREMOULDED JOINT FILLER.
- RAMP TEXTURING IS TO BE DONE WITH AN EXPANDED METAL GRATE PLACED AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. THE LONG AXIS OF THE DIAMOND PATTERN SHALL BE PERPENDICULAR TO CURB. GROOVES SHALL BE 1/8" DEEP AND 1/4" WIDE.
- 1/2" MAX. LIP AT OUTER LINE.
- IF LANDING AREA IS LESS THAN 4', DECREASE SIDE RAMP SLOPE TO 1:12.

DIVERSION ORIFICE CALCULATIONS				
CULVERT	Q _{max}	H	ORIFICE DIAMETER	EQUIVALENT
P1	0.90 CFS	1.0'	5.7589"	5 3/4"φ
P2	0.93 CFS	1.0'	5.8541"	5 11/16"φ
P3	0.27 CFS	1.0'	3.1543"	3 1/8"φ



CB 2A, 10A, & 20B w/SPLITTER TYPICAL DETAIL NTS

SNOHOMISH COUNTY COMMUNITY DEVELOPMENT DIVISION APPROVED FOR CONSTRUCTION BY *Randolph R. Sleight* P.E. for RANDOLPH R. SLEIGHT P.E., L.S. R/W Permit No. RW1418

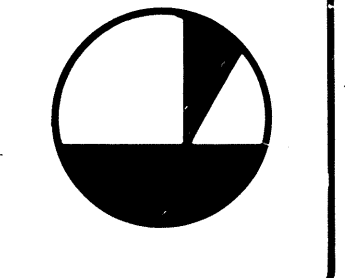


CITY OF MILL CREEK APPROVED FOR CONSTRUCTION BY *John G. Galt* 280193 PHASE I ONLY

CITY OF MILL CREEK APPROVED FOR CONSTRUCTION BY *John G. Galt* 5/6/94

DATE	4/21/93	REVISION	REVISED PER CITY REVIEW
DATE	4/15/94	REVISION	REVISED PER COUNTY

OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS 3705 COLBY AVE. #1 BELLEVUE, WA 98001 (206) 259-6445



AT THE PARKS AT MILL CREEK ROAD + STORM DETAILS + NOTES CITY OF MILL CREEK WASHINGTON

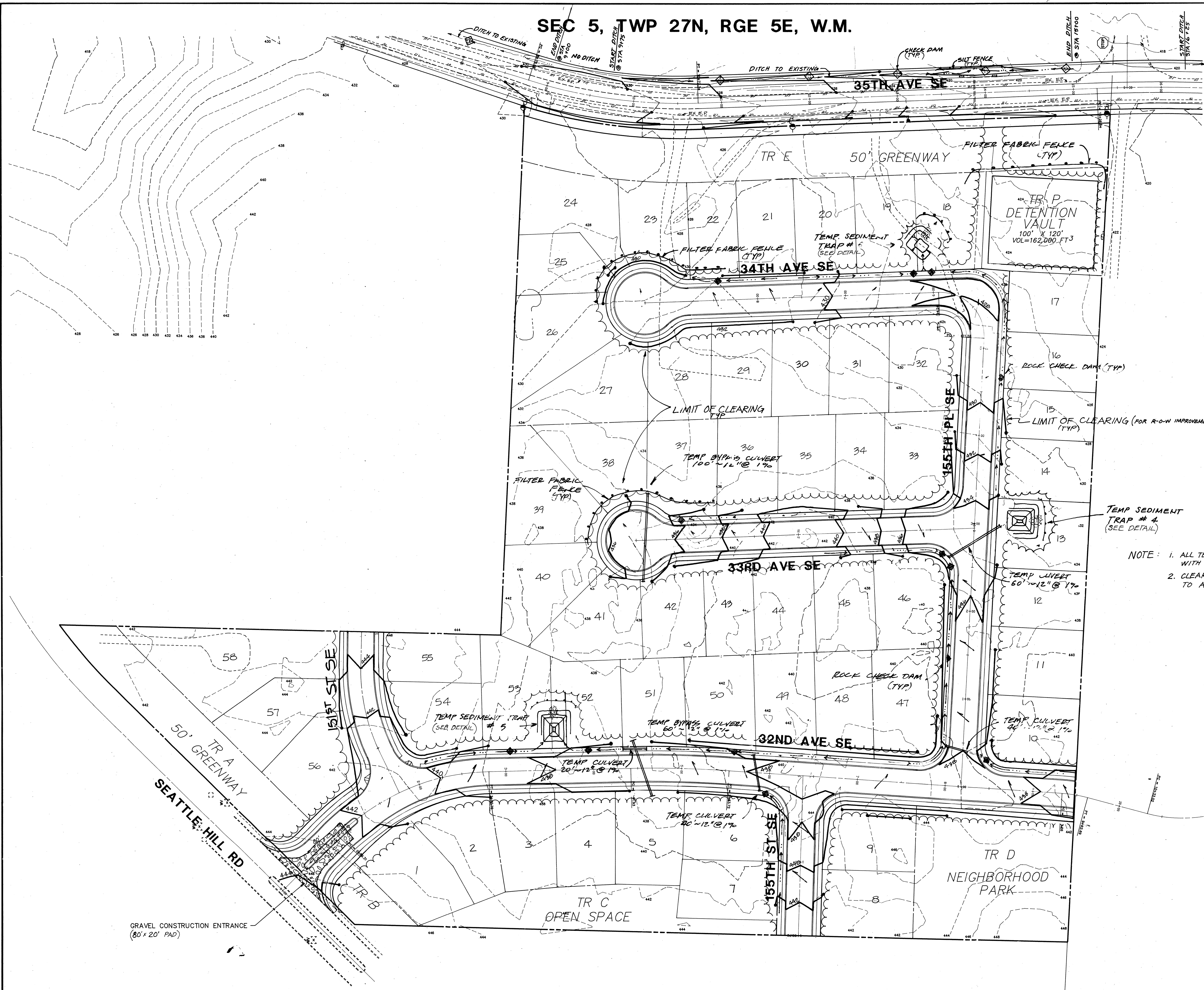
Designed KR Checked KR Drawn MF Checked As-built

Sheet 12/16

Job No. 93129

HDEV-336

SEC 5, TWP 27N, RGE 5E, W.M.

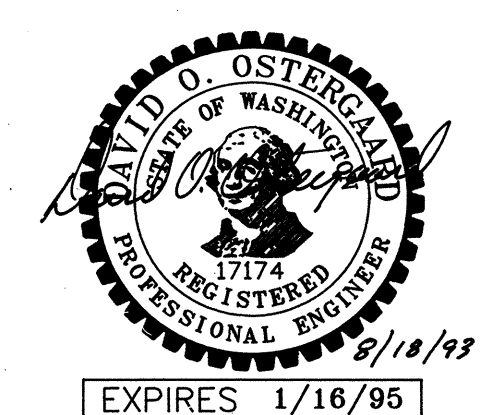


TEMP SEDIMENT TRAP # 4 (SEE DETAIL)

- NOTE: 1. ALL TEMP. PONDS TO BE FIELD LOCATED WITH APPROVAL OF CITY.
 2. CLEARING LIMITS TO BE FENCED PRIOR TO ANY COMMENCEMENT OF WORK.

SCALE: 1" = 50'

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 25 Oct 93
 PHASE 1 ONLY



CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 5/6/94

NOTE: SEE SH. 15 FOR SEDIMENT TRAP DIMENSIONS.

DATE	REVISION	BY
7/24/93	PER CITY REVIEW	ME
1/28/94	REV GRADING	ME
2/17/94	PER COUNTY REVIEW	ME
4/15/94	REV LOT LINES, GRADING	ME

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 & ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 (206) 259-6445
 EVERETT, WA 98201
 BELLEVUE, (206) 827-5854

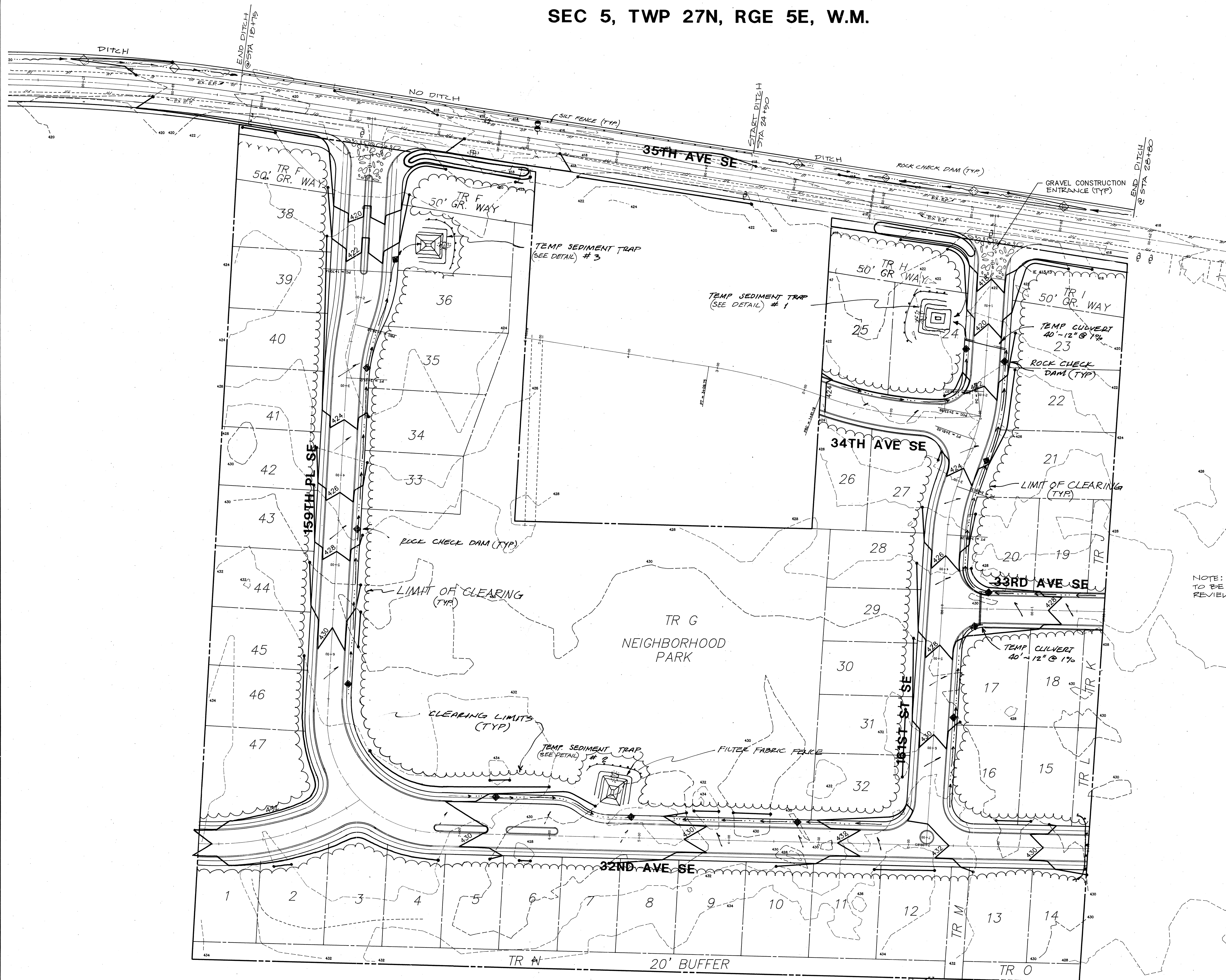
THE PARKS AT MILL CREEK
 GRADING + TESC PLAN
 WASHINGTON
 CITY OF MILL CREEK

Designed	ME
Checked	
Drawn	ME
Checked	
As-built	

Sheet 13 of 16

Job No. 93129

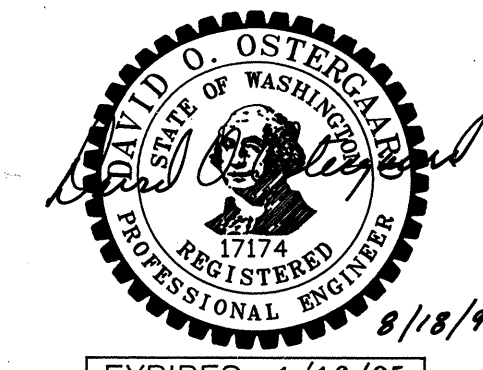
SEC 5, TWP 27N, RGE 5E, W.M.



NOTE: CLEARING LIMITS ALONG 35TH AVE SE TO BE STAKED BY DEVELOPER AND REVIEWED AND APPROVED BY CITY.

SCALE: 1" = 50'

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 8/18/93
PHASE 1 ONLY



CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 5/6/94

NOTE: SEE SHY 15 FOR SEDIMENT TRAP DIMENSIONS

DATE	REVISION	BY
9/24/93	PER CITY REVIEW	PR
1/28/94	REV GRADING	PR
2/19/94	PER COUNTY REVIEW	PR
3/7/94	ADDED CURVE	PR
4/15/94	REV LOT LINES, GRADING	PR

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1
(206) 259-6445
EVERETT, WA 98201
BELLUVE: (206) 827-5854

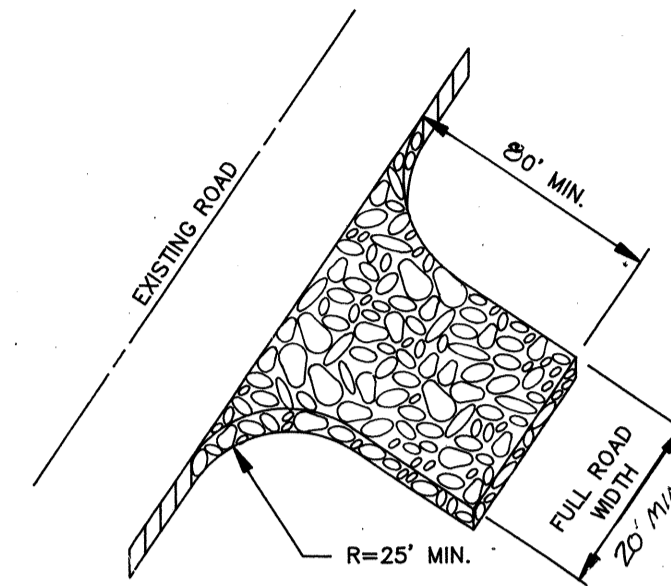
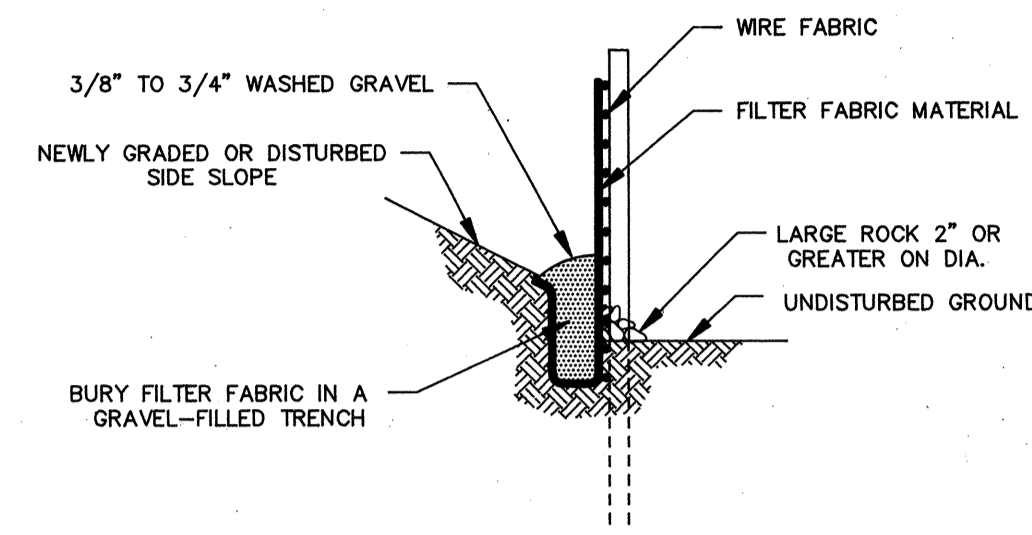
THE PARKS AT MILL CREEK
GRADING + TESCOP PLAN
CITY OF MILL CREEK WASHINGTON

Designed	ME
Checked	
Drawn	ME
Checked	
As-built	

Sheet 14 of 16

Job No. 93129

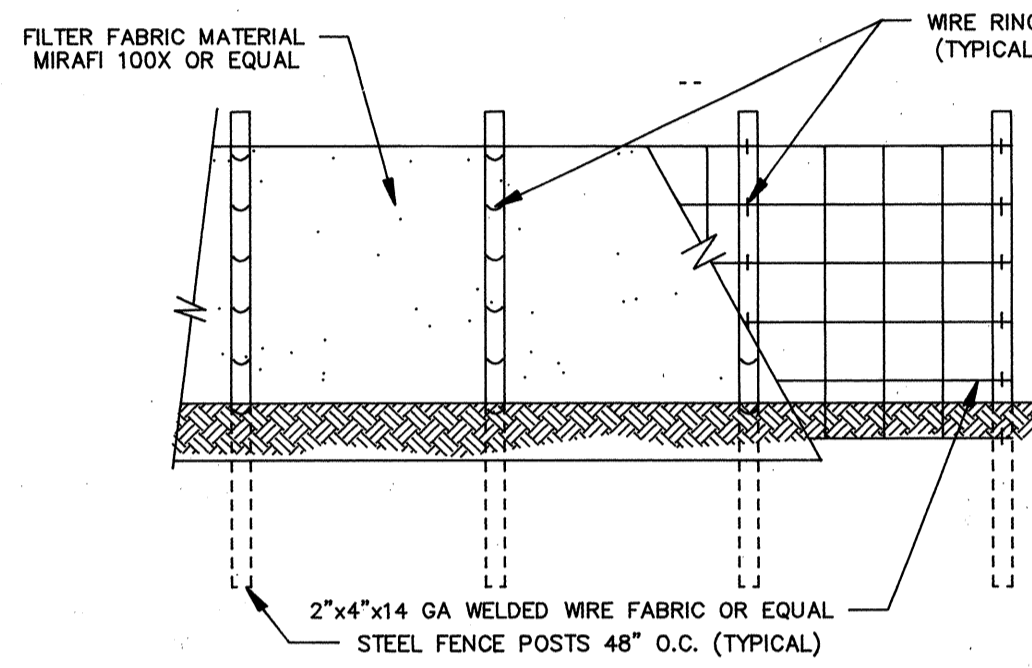
SEC 5, TWP 27N, RGE 5E, W.M.



GRAVEL CONSTRUCTION ENTRANCE

NTS
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

1. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK
3. ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
4. WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD TO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



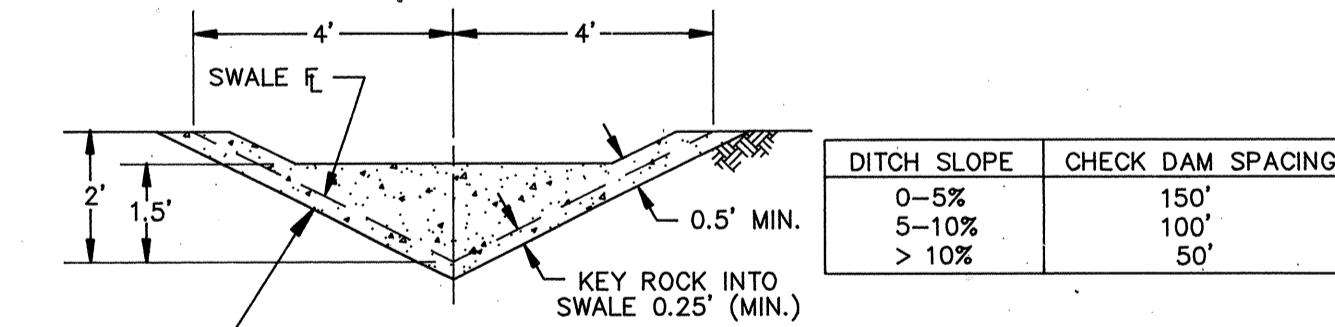
SILT FENCE DETAILS

NTS
MAINTENANCE OF SILTATION BARRIERS

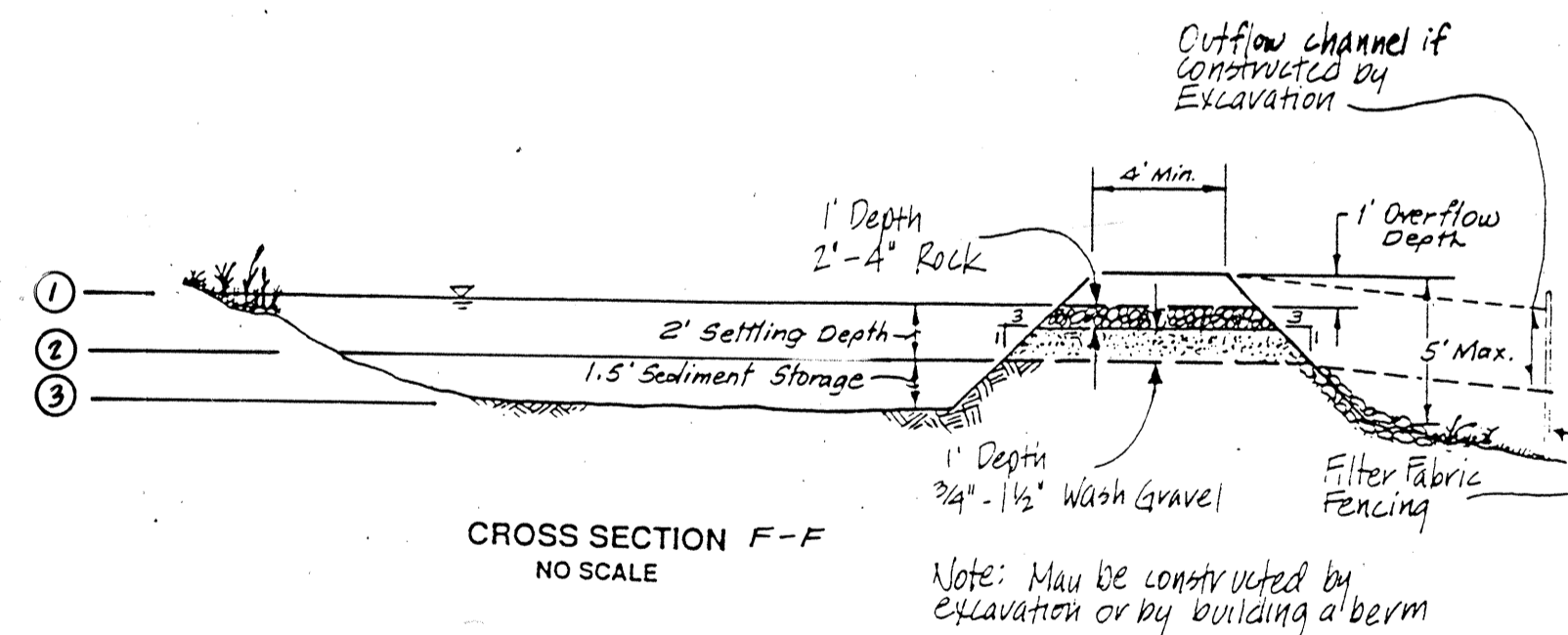
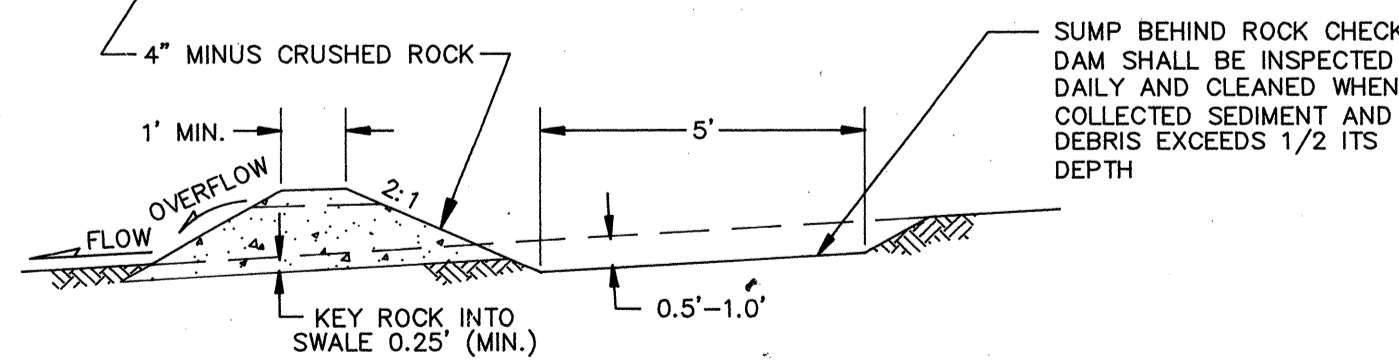
1. SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

TEMPORARY SEDIMENT TRAP-MINIMUM DIMENSIONS			
T.S.T.#	1	2	3
ALL PONDS	23 X 27	11 X 15	2 X 6

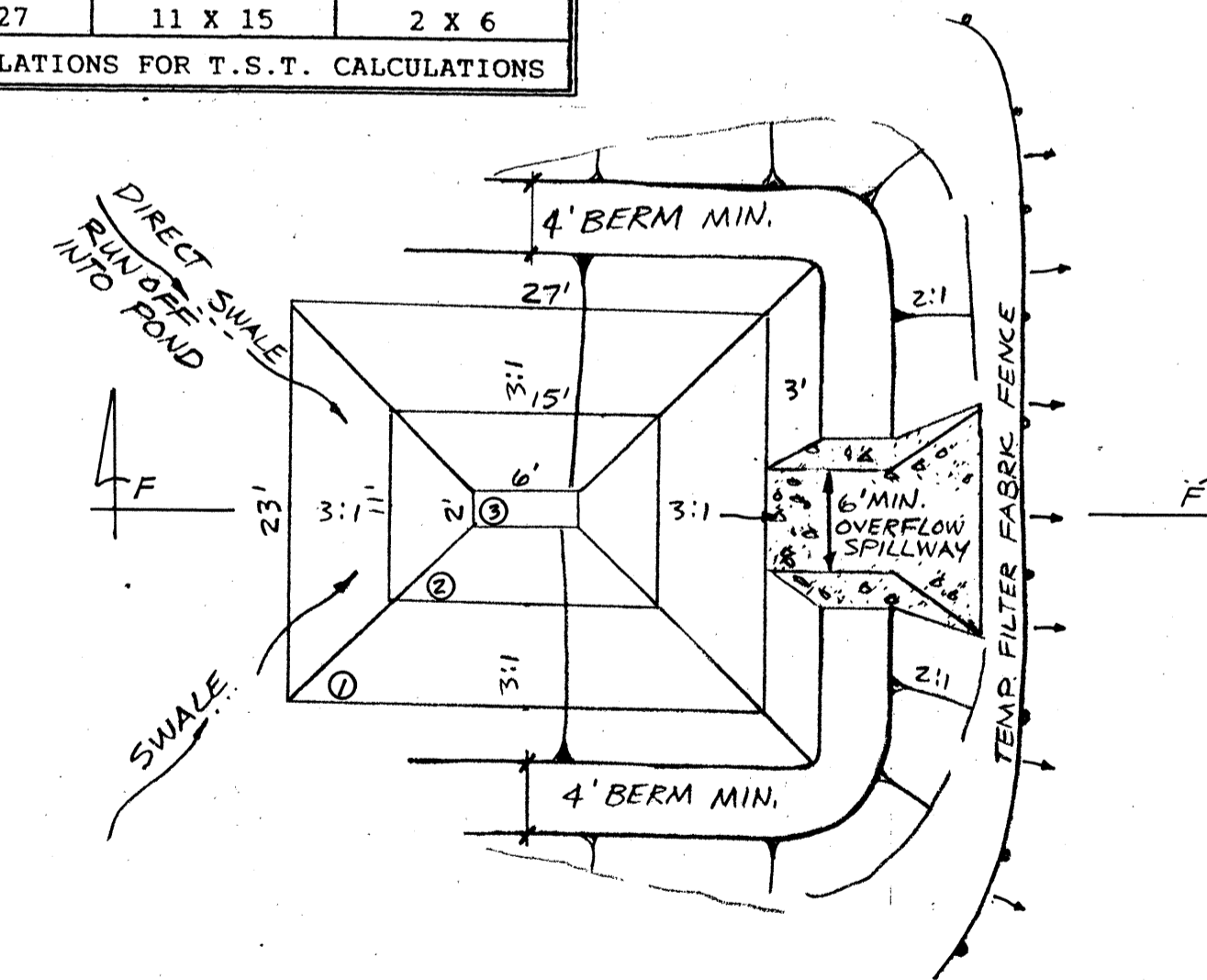
SEE HYDRAULIC CALCULATIONS FOR T.S.T. CALCULATIONS



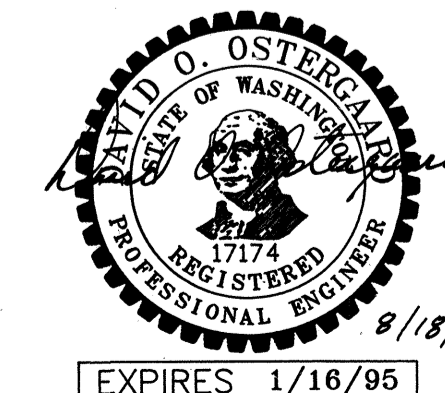
ROCK CHECK DAM DETAILS



SEDIMENT TRAP OUTLET



TYPICAL SEDIMENT TRAP
SCALE 1" = 10'



SITE GRADING AND T.E.S.C.P. NOTES

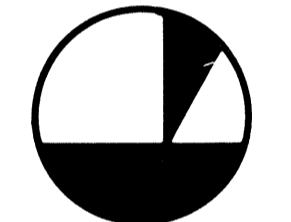
1. PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
2. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
3. ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS. PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
4. IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT SHALL BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOILS MECHANICS.
5. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEED PREFERRED.
6. ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
7. ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY THE CITY OF MILL CREEK.
8. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING:
20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS
40% CREEPING RED FESCUE
40% WHITE CLOVER
HYDROSEED REQUIRED.
9. FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 28 Oct 93
PHASE 1 ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 5/16/94

DATE	9/14/93
REVISION	PER CITY RELIEF COMMENTS
BY	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1
BELLVIEW, WA 98201
(206) 259-6445
EVERETT, WA 98201
(206) 827-5854



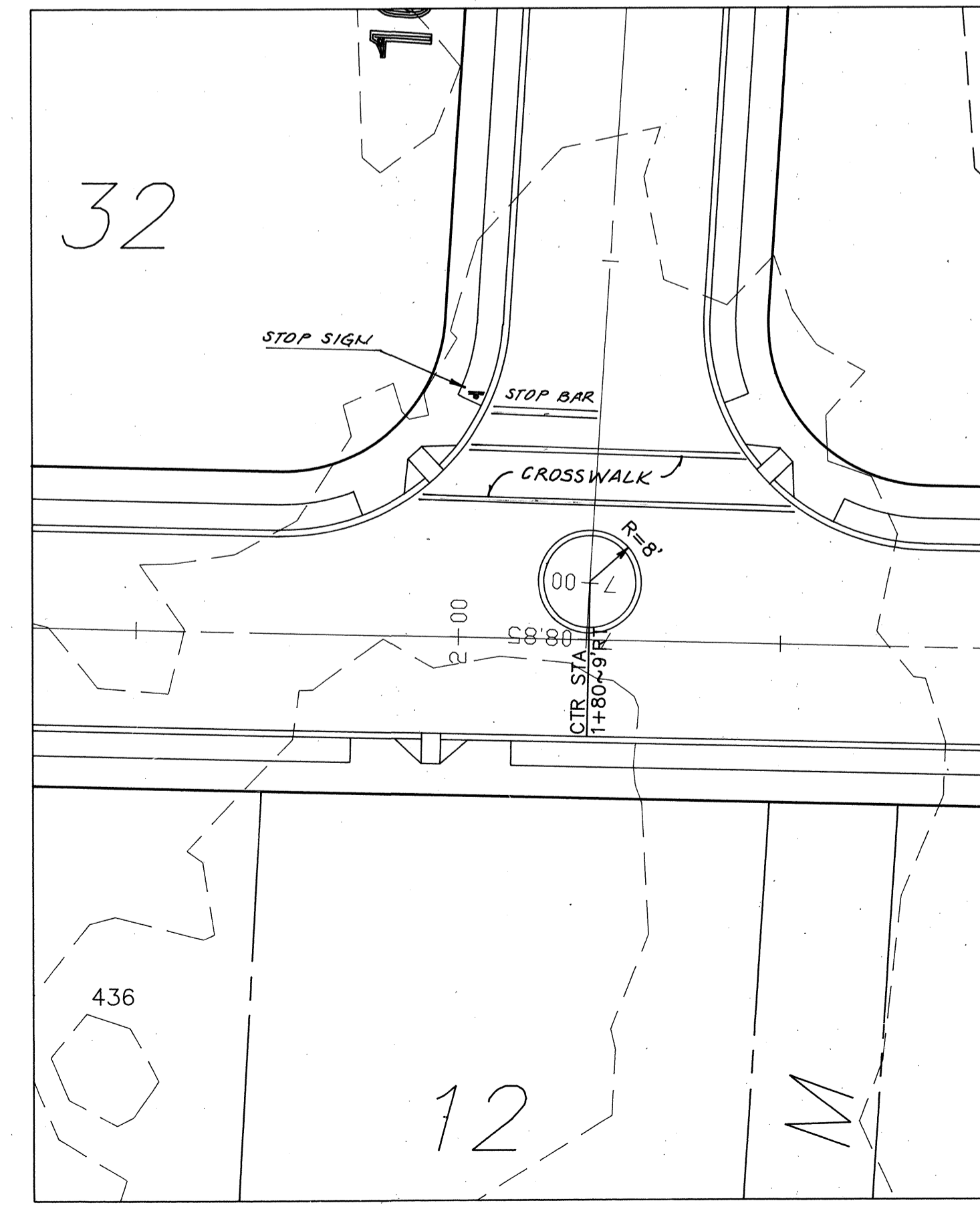
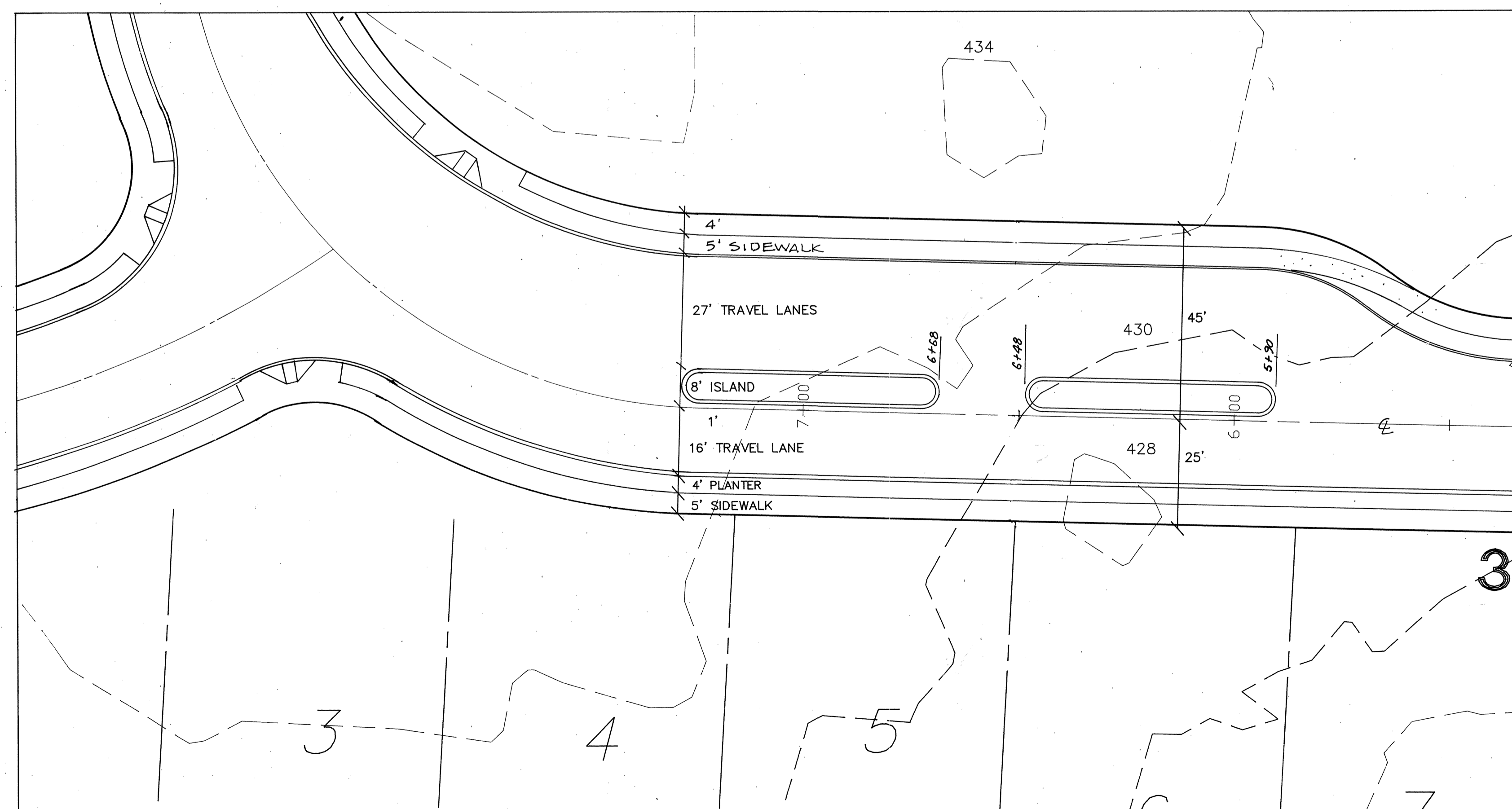
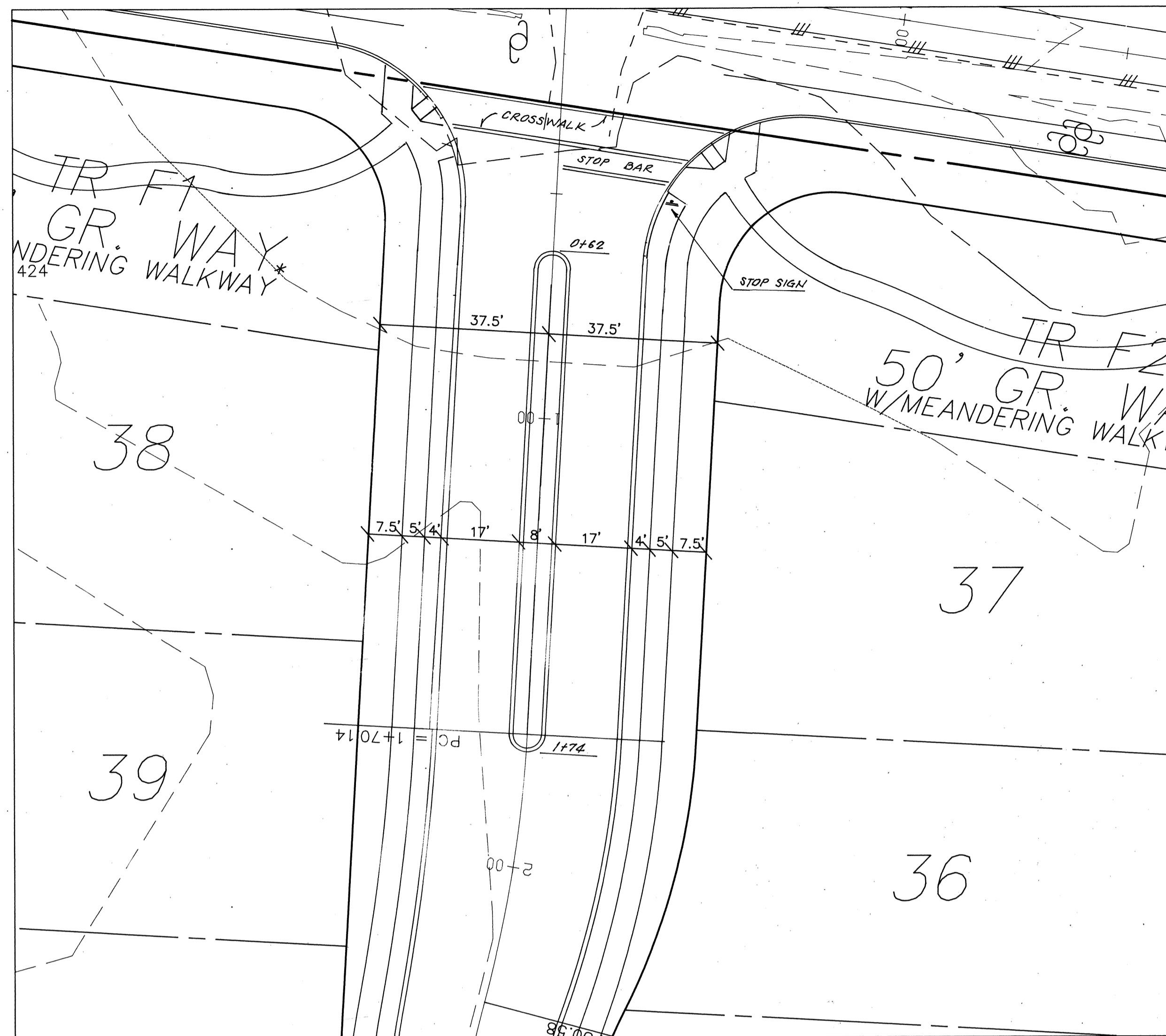
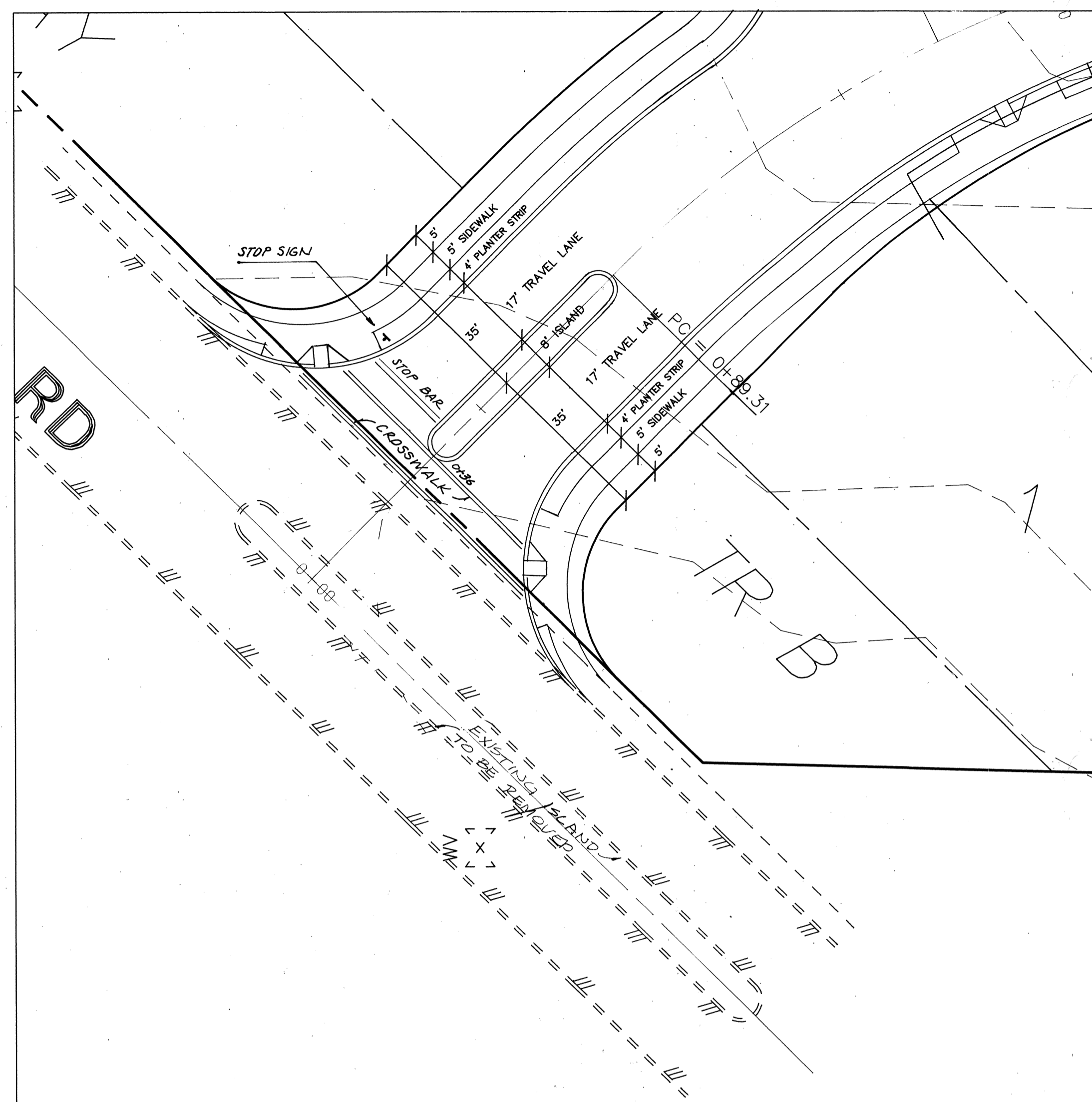
THE PARKS
AT MILL CREEK
GRADING + T.E.S.C.P.
DETAILS + NOTES
CITY OF MILL CREEK WASHINGTON

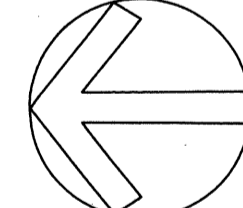
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Drawn MF
Checked
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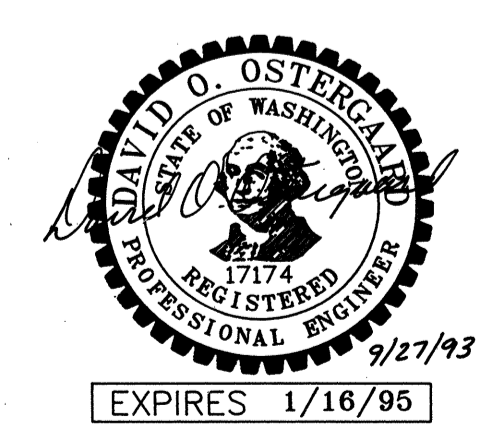
Sheet 15 of 16

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.




 SCALE: 1" = 20'
 CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 290293
 PHASE 1 ONLY



CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 5/2/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME

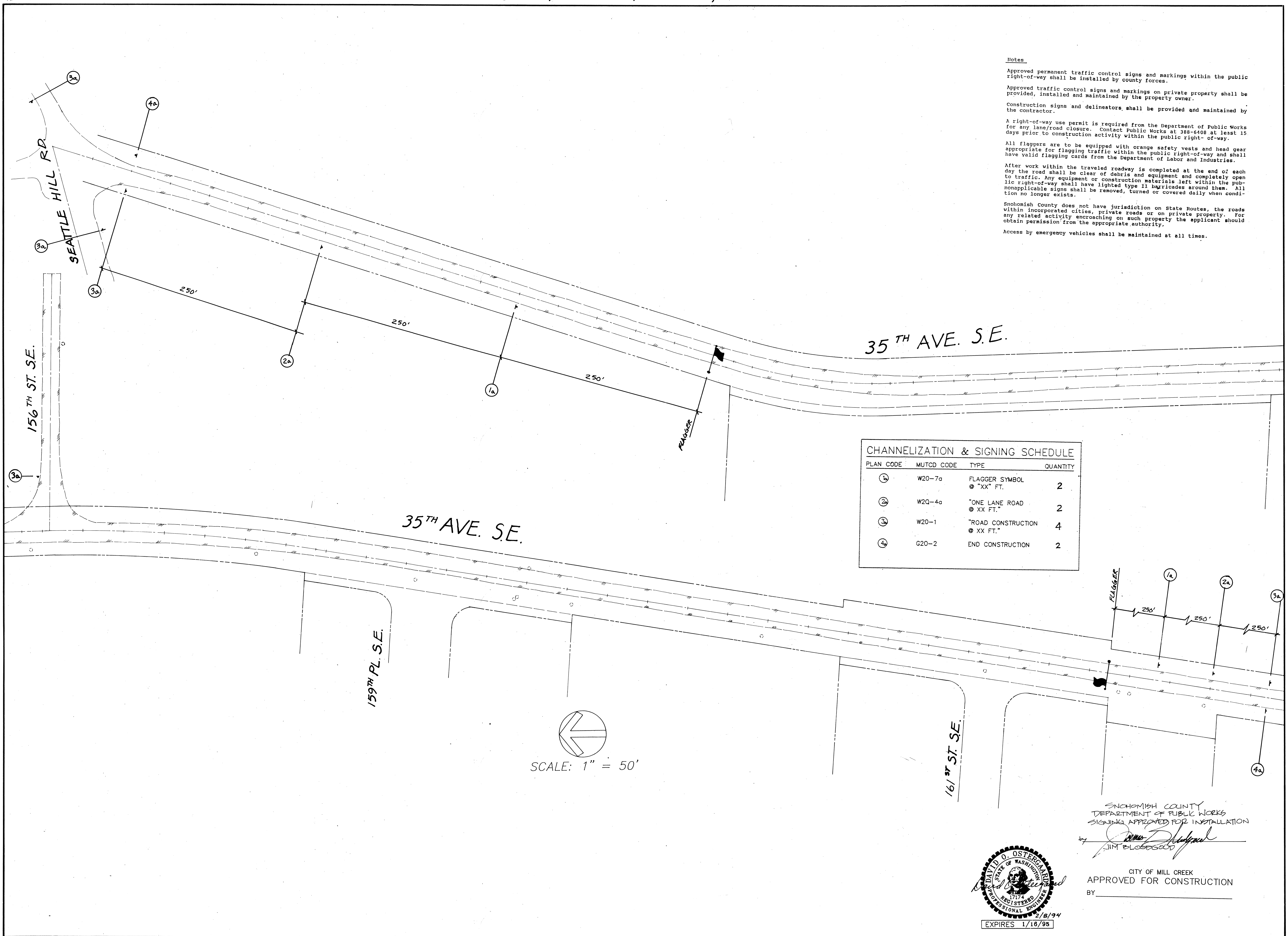
OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 BELLEVUE, (206) 259-6445
 EVERETT, WA 98201
 (206) 827-5834

THE PARKS
AT MILL CREEK
 ISLAND DETAILS
 WASHINGTON
 CITY OF MILL CREEK

Designed	ME
Checked	
Drawn	ME
Checked	
As-built	

Sheet 16 of 16

Job No. 93129



PLAN CODE	MUTCD CODE	TYPE	QUANTITY
1a	W20-7a	FLAGGER SYMBOL ⊙ "XX" FT.	2
2a	W2Q-4a	"ONE LANE ROAD ⊙ XX FT."	2
3a	W20-1	"ROAD CONSTRUCTION ⊙ XX FT."	4
4a	G20-2	END CONSTRUCTION	2

Notes

Approved permanent traffic control signs and markings within the public right-of-way shall be installed by county forces.

Approved traffic control signs and markings on private property shall be provided, installed and maintained by the property owner.

Construction signs and delineators, shall be provided and maintained by the contractor.

A right-of-way use permit is required from the Department of Public Works for any lane/road closure. Contact Public Works at 388-6408 at least 15 days prior to construction activity within the public right-of-way.

All flaggers are to be equipped with orange safety vests and head gear appropriate for flagging traffic within the public right-of-way and shall have valid flagging cards from the Department of Labor and Industries.

After work within the traveled roadway is completed at the end of each day the road shall be clear of debris and equipment and completely open to traffic. Any equipment or construction materials left within the public right-of-way shall have lighted type II barricades around them. All nonapplicable signs shall be removed, turned or covered daily when condition no longer exists.

Snohomish County does not have jurisdiction on State Routes, the roads within incorporated cities, private roads or on private property. For any related activity encroaching on such property the applicant should obtain permission from the appropriate authority.

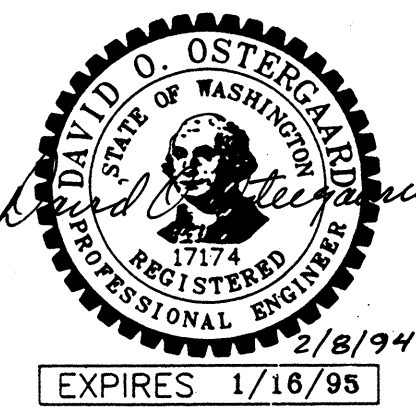
Access by emergency vehicles shall be maintained at all times.

DATE	5-2-94
REVISION	REVISED PER DPAJ REVIEW
BY	TLO

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& ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 (206) 259-6445
 EVERETT, WA 98201
 BELLEVUE: (206) 827-5854

THE PARKS
AT MILL CREEK
 CONSTRUCTION SIGNING PLAN
 CITY OF MILL CREEK WASHINGTON

SCALE: 1" = 50'



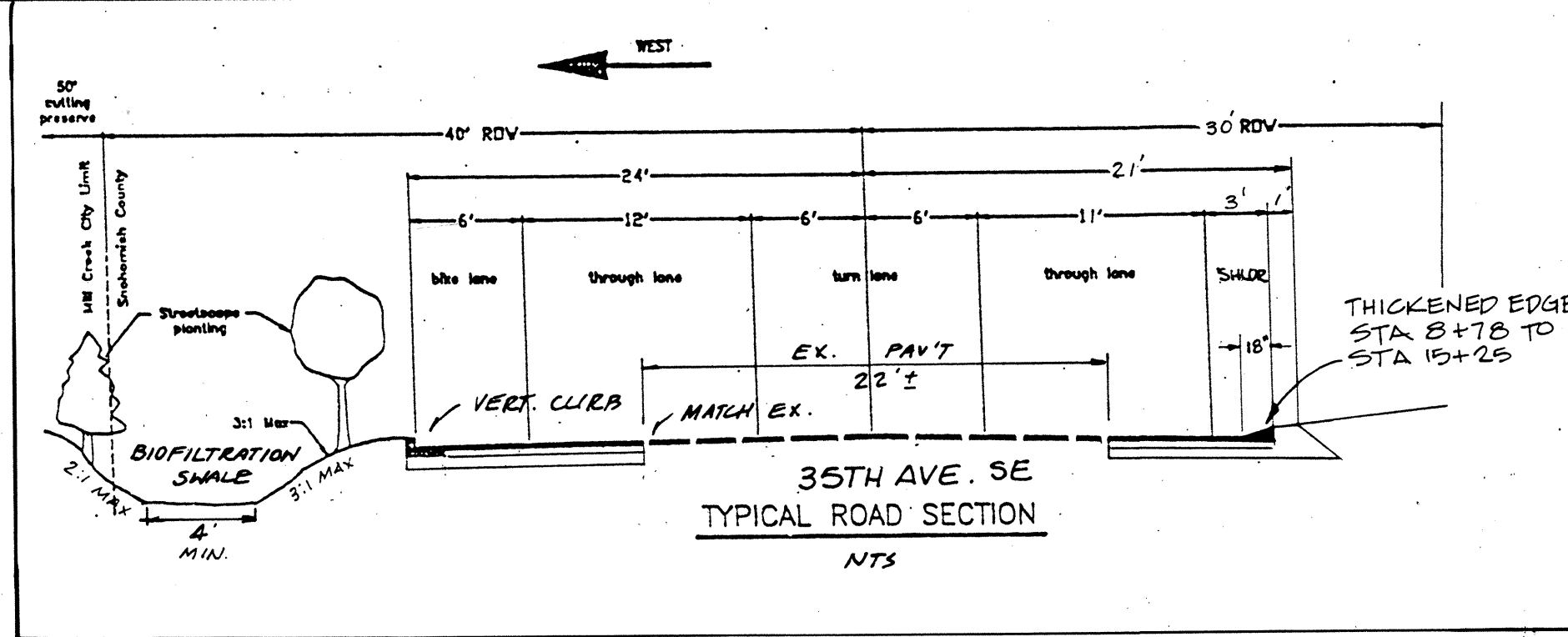
SNOHOMISH COUNTY
 DEPARTMENT OF PUBLIC WORKS
 SIGNING APPROVED FOR INSTALLATION
Jim Blossgood
 JIM BLOSSGOOD

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY _____

Designed BRL
 Checked _____
 Drawn BRL
 Checked _____
 As-built _____

Sheet 1 / of 1

Job No.
93129



Notes

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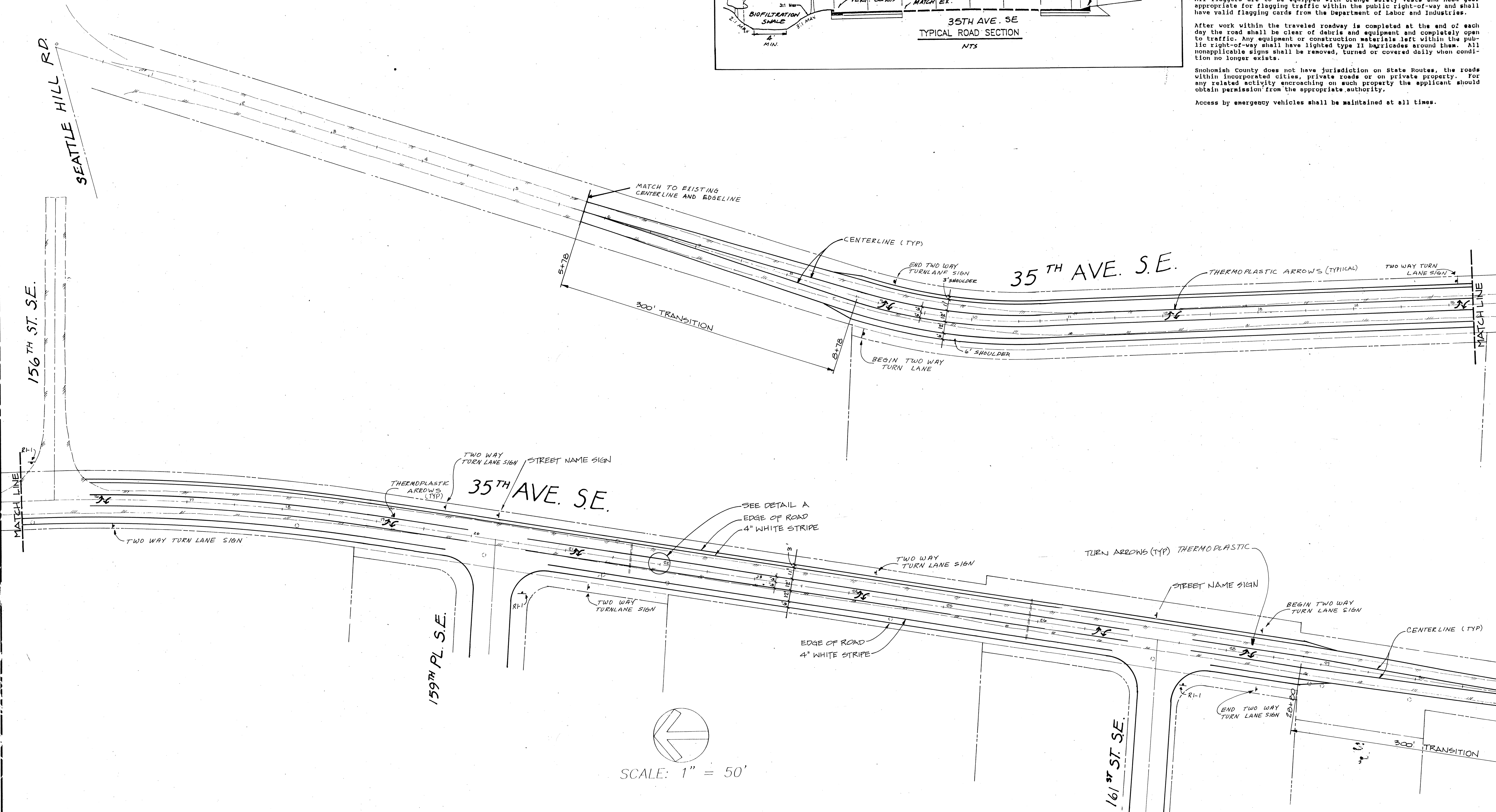
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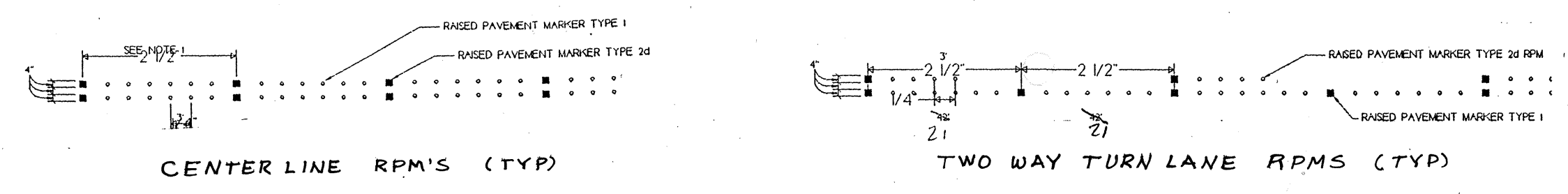
DATE	5-2-94	REVISION	REVISED PER DPW REVIEW
BY	TLO		

OSTERGAARD • ROBINSON
 & ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 BELLEVUE, WA 98001
 (206) 279-6445

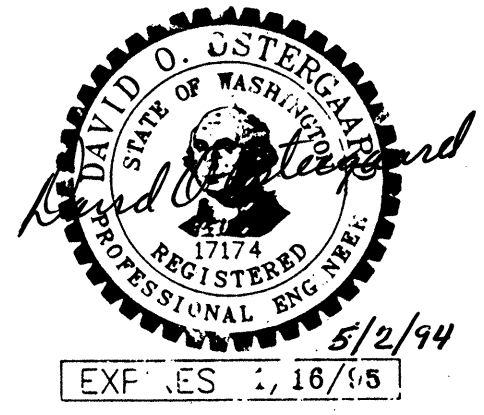
THE PARKS
 AT MILL CREEK
 SIGNING &
 CHANNELIZATION
 PLAN WASHINGTON



SCALE: 1" = 50'



SNOHOMISH COUNTY
 DEPARTMENT OF PUBLIC WORKS
 CHANNELIZATION AND SIGNING APPROVED FOR INSTALLATION
 by *James Bloodgood*
 JAMES BLOODGOOD, P.E. TRAFFIC ENGINEER

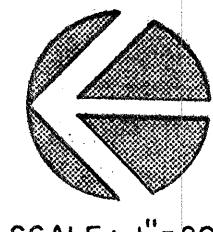


CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY _____

Designed	SRJ
Checked	SRJ
Drawn	SRJ
Checked	
As-built	

Sheet 1 of 1

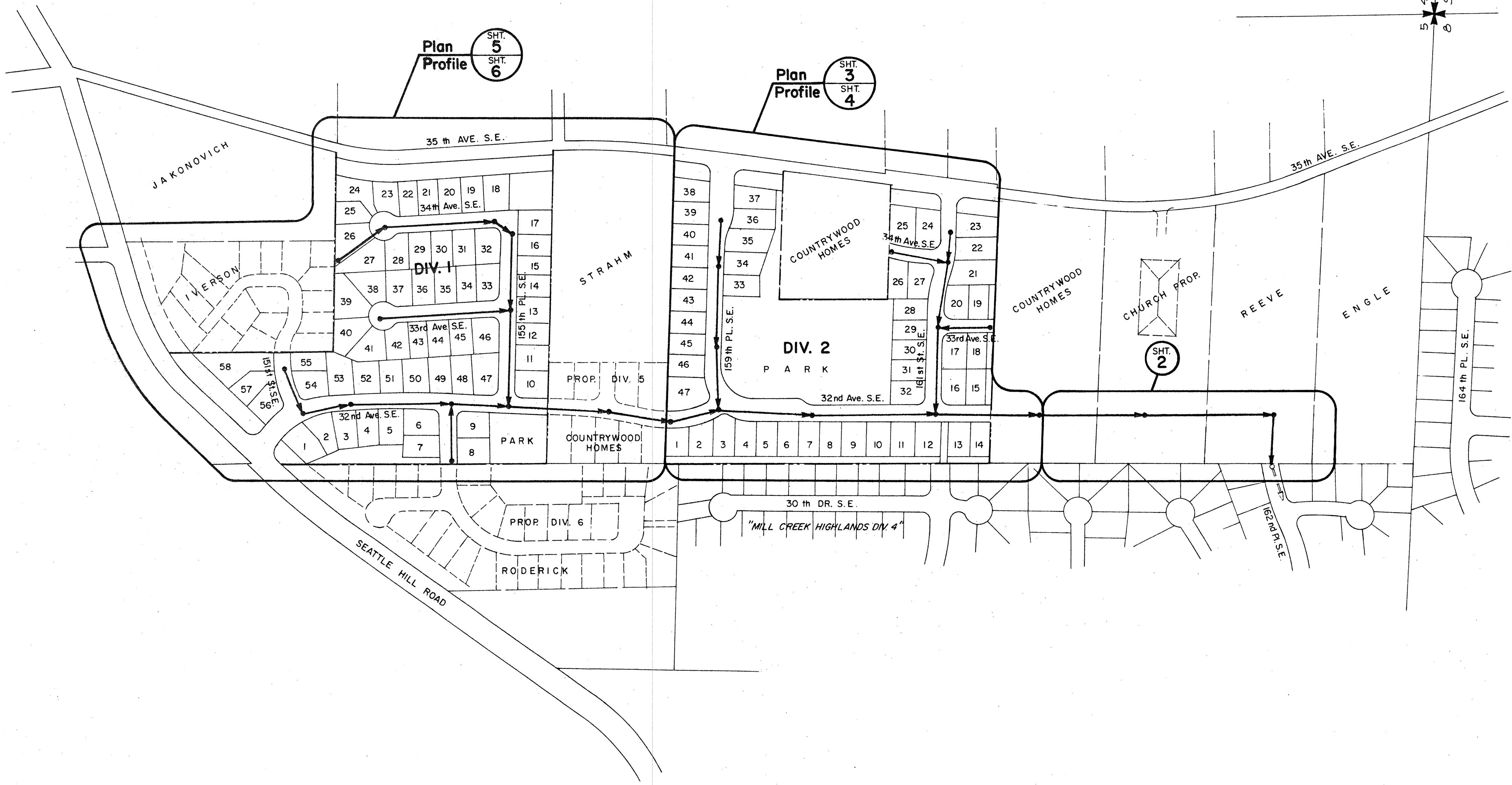
Job No. 93129



SCALE: 1"=200'

NOTES

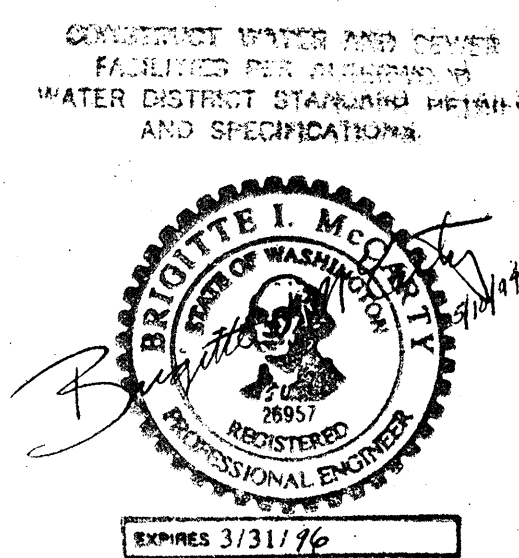
- 1.) APPROX. STATIC WATER PRESSURE 80-90 P.S.I.
- 2.) EASEMENTS:
 - ALL EASEMENTS SHALL BE FREE FROM ANY ENCROACHMENTS, SUCH AS COVERED PARKING, OVERHANGS, ETC.
 - "OFF-SITE" SEWER EASEMENTS SHALL BE PROVIDED TO A.W.D. PRIOR TO THE PRE-CONSTRUCTION MEETING AND "AS-BUILT" VERIFIED PRIOR TO ACCEPTANCE.
 - "ON-SITE" EASEMENTS (BOTH WATER & SEWER) SHALL BE PROVIDED TO A.W.D. BASED ON "AS-BUILT" CONDITIONS AND SHALL BE SHOWN ON THE FACE OF THE PLAT TO BE RECORDED.
 - A 5'x5' WATER EASEMENT SHALL BE PROVIDED TO A.W.D. AROUND METERS OUTSIDE OF RIGHT-OF-WAY (SHOWN ON FACE OF PLAT WITH A NO FENCING CLAUSE).
- 3.) CONSTRUCT WATER MAIN LOWER THAN STORM SEWER WHERE NECESSARY TO PROVIDE MINIMUM COVER AND/OR UNDISTURBED SOIL TO BLOCK AGAINST.
- 4.) DEVELOPER/CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES (VERTICALLY & HORIZONTALLY) WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. CALL DIAL DIG AT 1-800-424-5555.
- 5.) REFER TO ALDERWOOD WATER DISTRICT STANDARD DETAIL SHEETS FOR DETAILS, NOTES & SPECIFICATIONS FOR WATER & SEWER.
- 6.) (MFF 000) ~ INDICATES MINIMUM FINISH FLOOR ELEVATION REQUIRED FOR SANITARY SEWER SERVICE. PUMPING IS NOT ALLOWED. MINIMUM SLOPE OF 2% REQUIRED ON SIDE SEWERS.
- 7.) SEWER & WATER DESIGN BASED ON HORIZONTAL & VERTICAL DATA ON CIVIL PLANS PROVIDED BY OSTERGAARD & ROBINSON ENGRS.
- 8.) ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE CLASS 93. ALL SIDE SEWERS OFF 8" D.I.P. SEWER MAIN SHALL BE D.I.P. TO PROP. LINE.
- 9.) ALL WATER SERVICE SIZES & SIDE SEWER LOCATIONS SHALL BE VERIFIED BY DEVELOPER/CONTRACTOR PRIOR TO CONSTRUCTION. LOT CORNERS SHALL BE VERIFIED PRIOR TO INSTALLATION.
- 10.) DEVELOPER MUST OBTAIN A PERMIT FROM CITY OF "MILL CREEK" PRIOR TO STARTING WORK. A COPY OF THIS PERMIT MUST BE SUBMITTED TO A.W.D. BEFORE A PRE-CONSTRUCTION MEETING CAN BE SCHEDULED.
- 11.) ROAD GRADES TO BE ADJUSTED IN FIELD IF DEPTHS OF MANHOLES EXCEED 19.75 FT. MAXIMUM DEPTH ALLOWED IS 19.75 FT.
- 12.) LOT CONFIGURATIONS OF FUTURE DIVISIONS WILL BE SUBJECT TO SEWER AVAILABILITY AS DETERMINED BY DISTRICT REQUIREMENTS.
- 13.) IRRIGATION SERVICES SHALL BE INSTALLED WITH APPROVED BACKFLOW DEVICES.
- 14.) DEVELOPER AND/OR HIS ENGINEER SHALL OBTAIN THE NECESSARY PERMITS & APPROVALS REQUIRED FOR THE OFFSITE CONSTRUCTION.



ALDERWOOD WATER DISTRICT
 SHALL BE NOTIFIED
 48 HOURS PRIOR TO
 CONSTRUCTION.

BEFORE DIGGING CALL:
 1-800-424-5555
 (TOLL FREE)
 FOR UNDERGROUND UTILITY
 LOCATION.

PRINTED
 MAY 10 1994
 A.W.D.

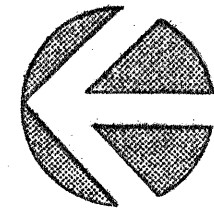


ALDERWOOD WATER DISTRICT
 3826 - 156th ST. S.W. Lynnwood, Wash.
 743 - 4605 98036

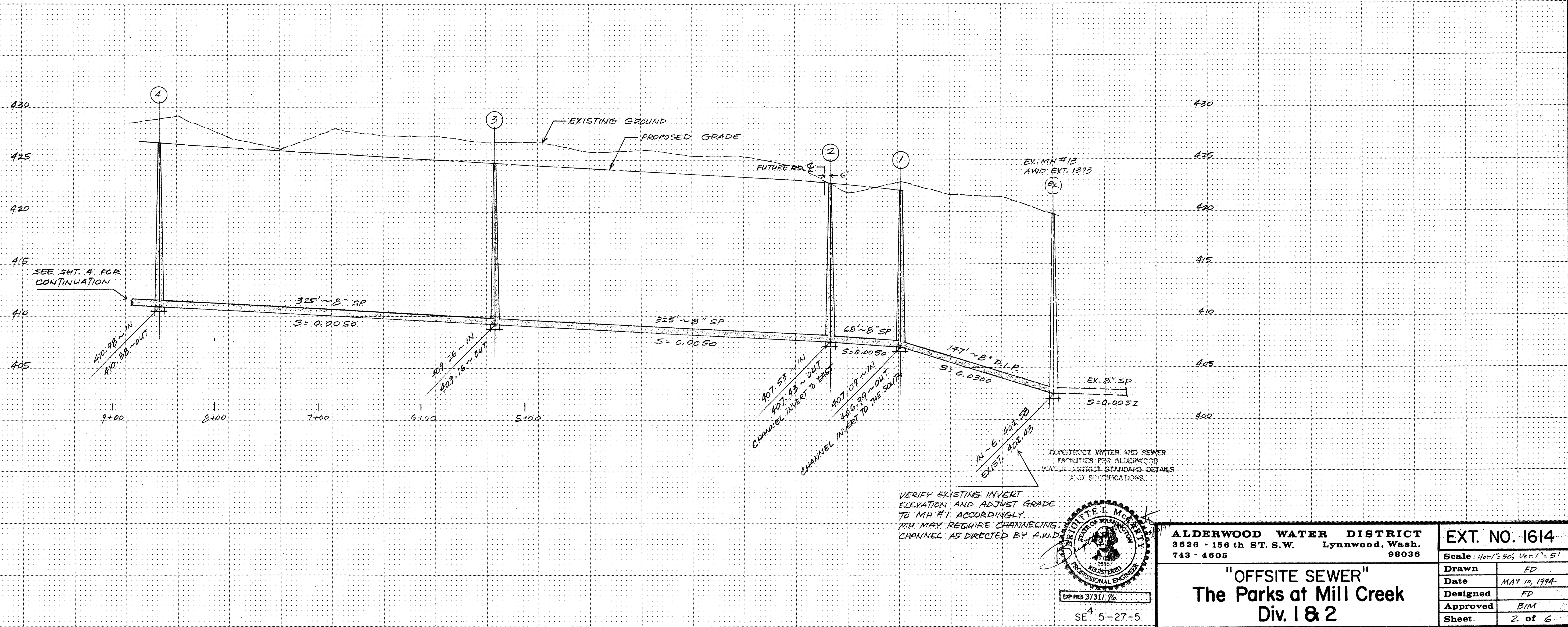
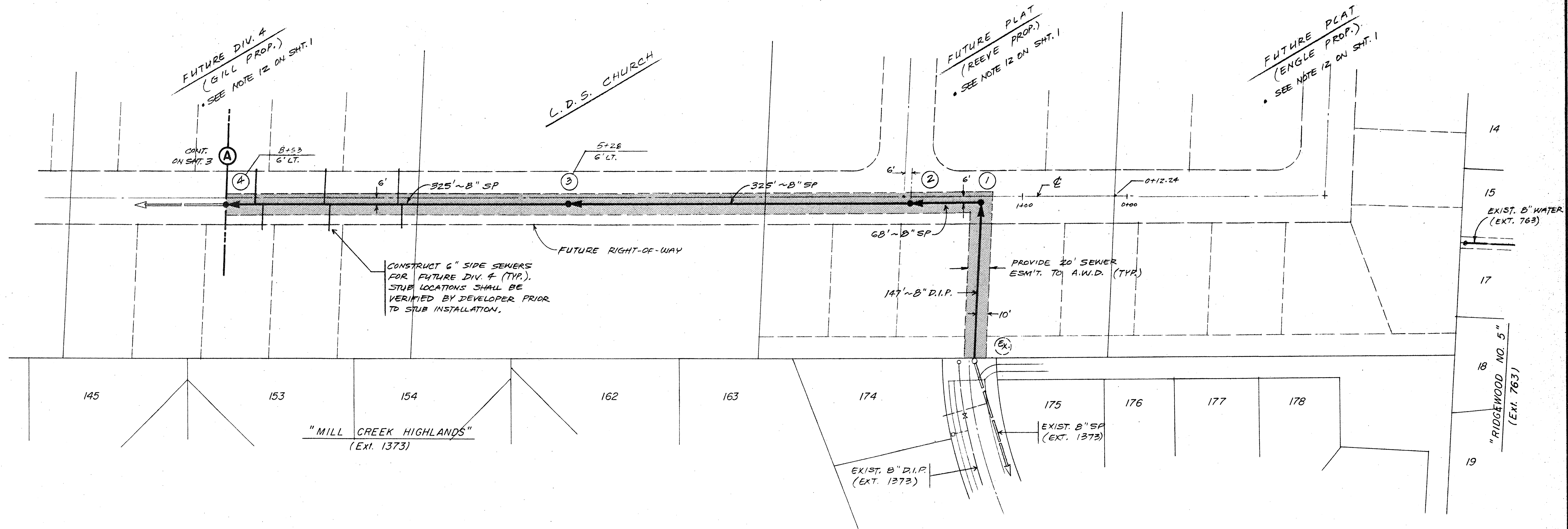
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Scale: 1" = 200'
Drawn: FD
Date: MAY 10, 1994
Designed: FD
Approved: BIM
Sheet: 1 of 6

The Parks at Mill Creek Div. 1 & 2

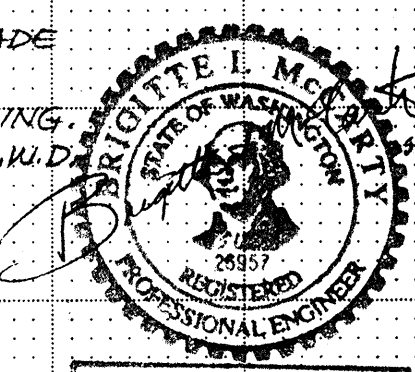
NE 4 & SE 4 5-27-5



1" = 50'



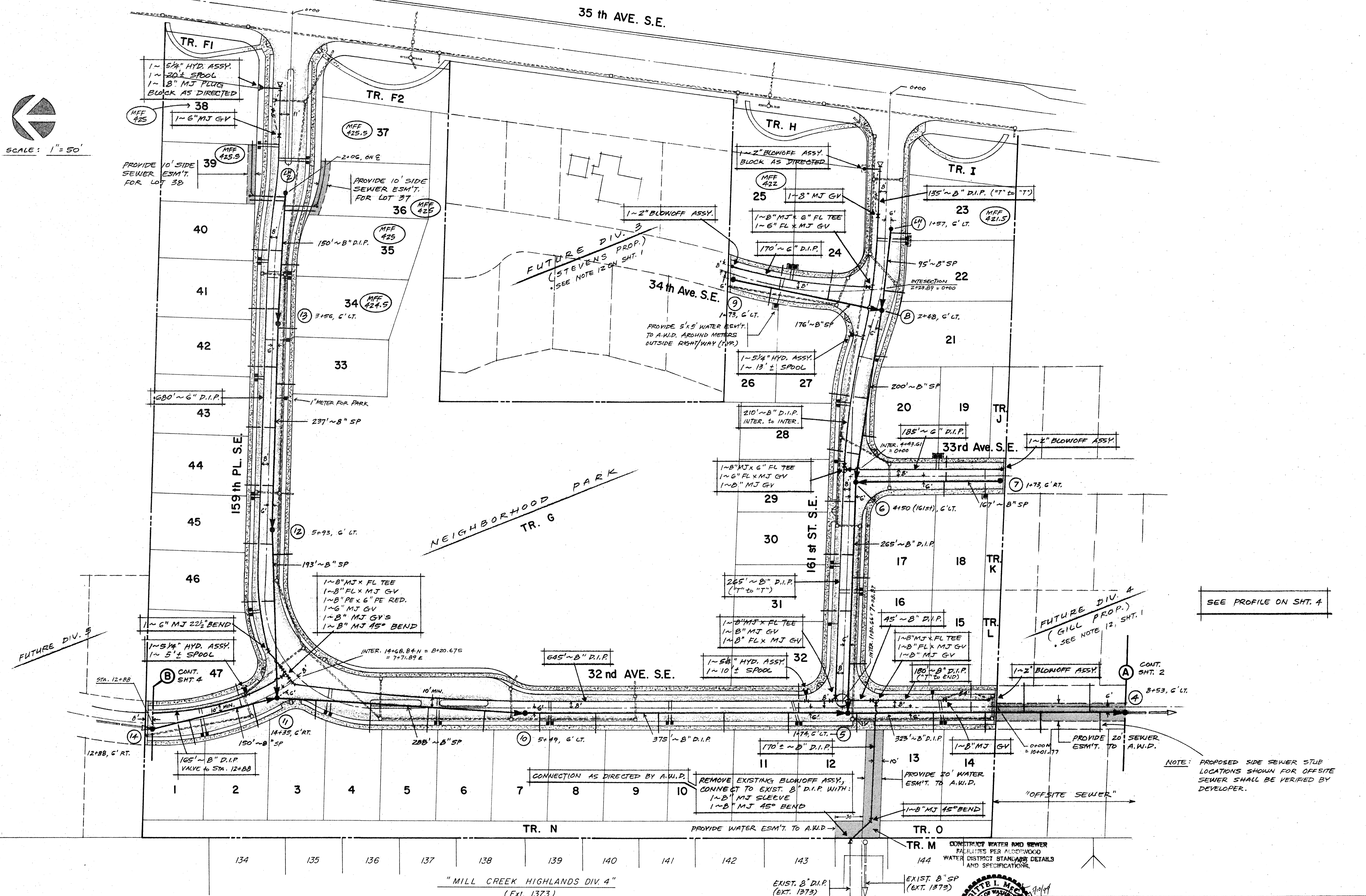
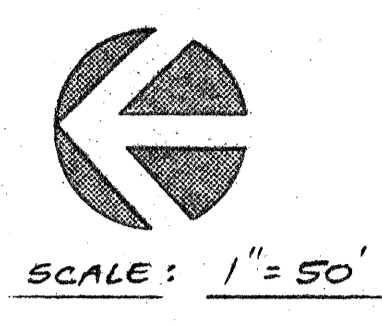
VERIFY EXISTING INVERT ELEVATION AND ADJUST GRADE TO MH #1 ACCORDINGLY. MH MAY REQUIRE CHANNELING. CHANNEL AS DIRECTED BY A.W.D.



ALDERWOOD WATER DISTRICT
 3826 - 156th ST. S.W. Lynnwood, Wash.
 743 - 4605 98036

EXT. NO. 1614	
Scale: Hor. 1" = 50', Ver. 1" = 5'	
Drawn: FD	
Date: MAY 10, 1994	
Designed: FD	
Approved: BIM	
Sheet: 2 of 6	

"OFFSITE SEWER"
The Parks at Mill Creek
Div. 1 & 2

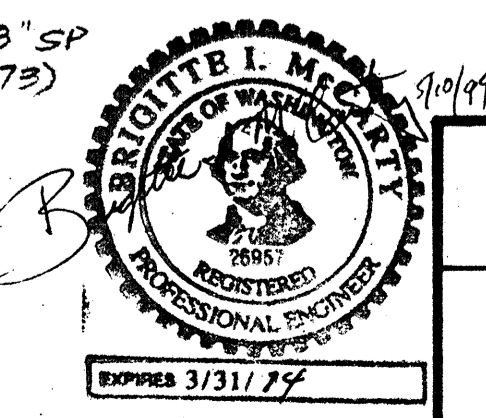


SEE PROFILE ON SHT. 4

FUTURE DIV. 4
(GILL PROP.)
SEE NOTE 12, SHT. 1

NOTE: PROPOSED SIDE SEWER STUB LOCATIONS SHOWN FOR OFFSITE SEWER SHALL BE VERIFIED BY DEVELOPER.

NOTE: NO EXIST. METERS FROM TIE-IN TO VALVE

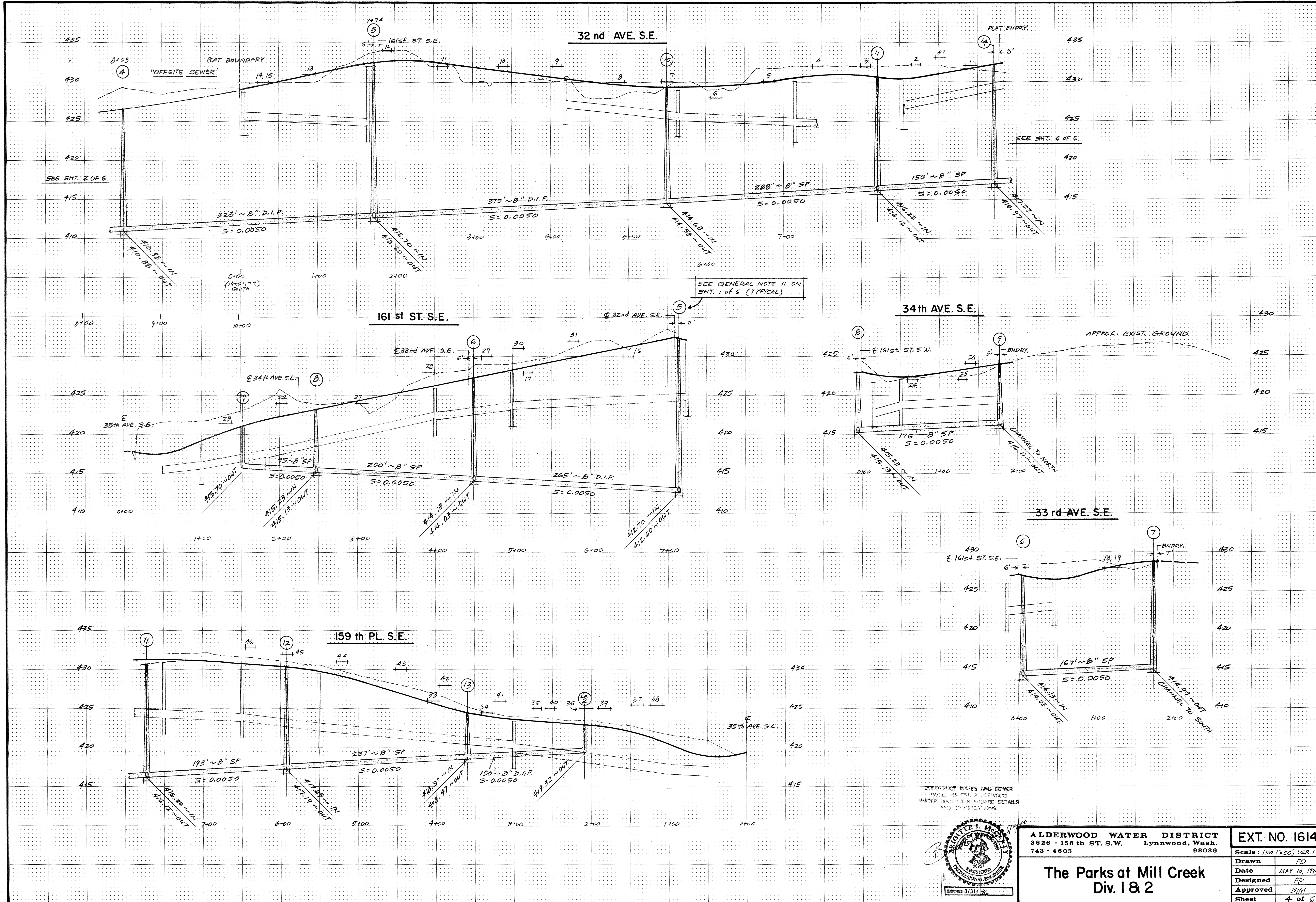


ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. Lynnwood, Wash. 98036
743 - 4605

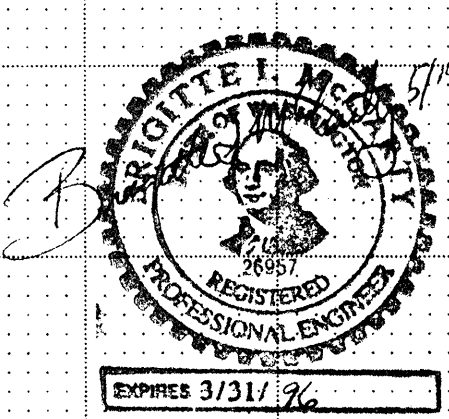
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Scale: 1" = 50'
Drawn: FD
Date: MAY 10, 1974
Designed: FD
Approved: BIM
Sheet: 3 of 6

The Parks at Mill Creek
Div. 1 & 2

SE 5-27-5



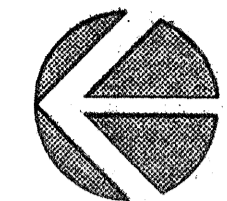
EXISTING WATER AND SEWER
 LOCATIONS ARE INDICATED
 WATER DISCHARGE AND SEWER
 DISCHARGE DETAILS
 SHALL BE SHOWN ON SHEET



ALDERWOOD WATER DISTRICT
 3626 - 156th ST. S.W. Lynnwood, Wash.
 743 - 4605 98038

The Parks at Mill Creek
 Div. 1 & 2

EXT. NO. 1614	
Scale: Hor. 1"=50', VER. 1"=5'	Drawn: FD
Date: MAY 10, 1994	Designed: FP
Approved: B/M	Sheet: 4 of 6



SCALE: 1" = 50'

35th AVE. S.E.

TR. 'E'

JOKANOVICH PROP.

IVERSON PROP.
(SEE NOTE 12, SHT. 1)

EX. 8" D.I.P.
(AND 178-90)

DETECTION VAULT
TR. 'P'

UNDEVELOPED
(SEE NOTE 12, SHT. 1)

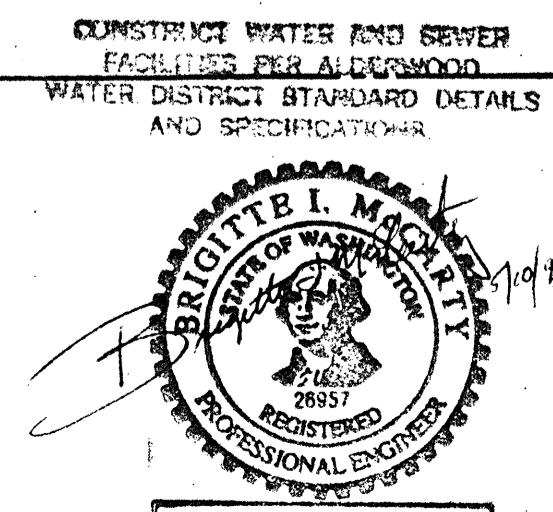
SEE PROFILE ON SHT. 6

NOTE:
SIDE SEWER STUB
LOCATION TO BE VERIFIED
BY DEVELOPER PRIOR TO
CONST. OF OFFSITE.

ESH'TS. REQ'D. FOR
PUBLIC WATER & SEWER,
MIN. 15' EACH.

FUTURE DIV. 5
"COUNTRYWOOD HOMES"

FUTURE DIV. 6
(RODERICK PROP.)
SEE NOTE 12, SHT. 1



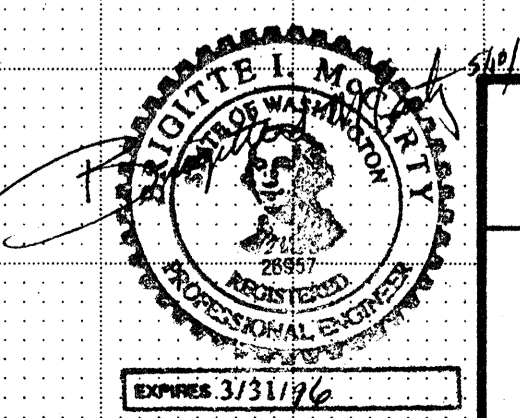
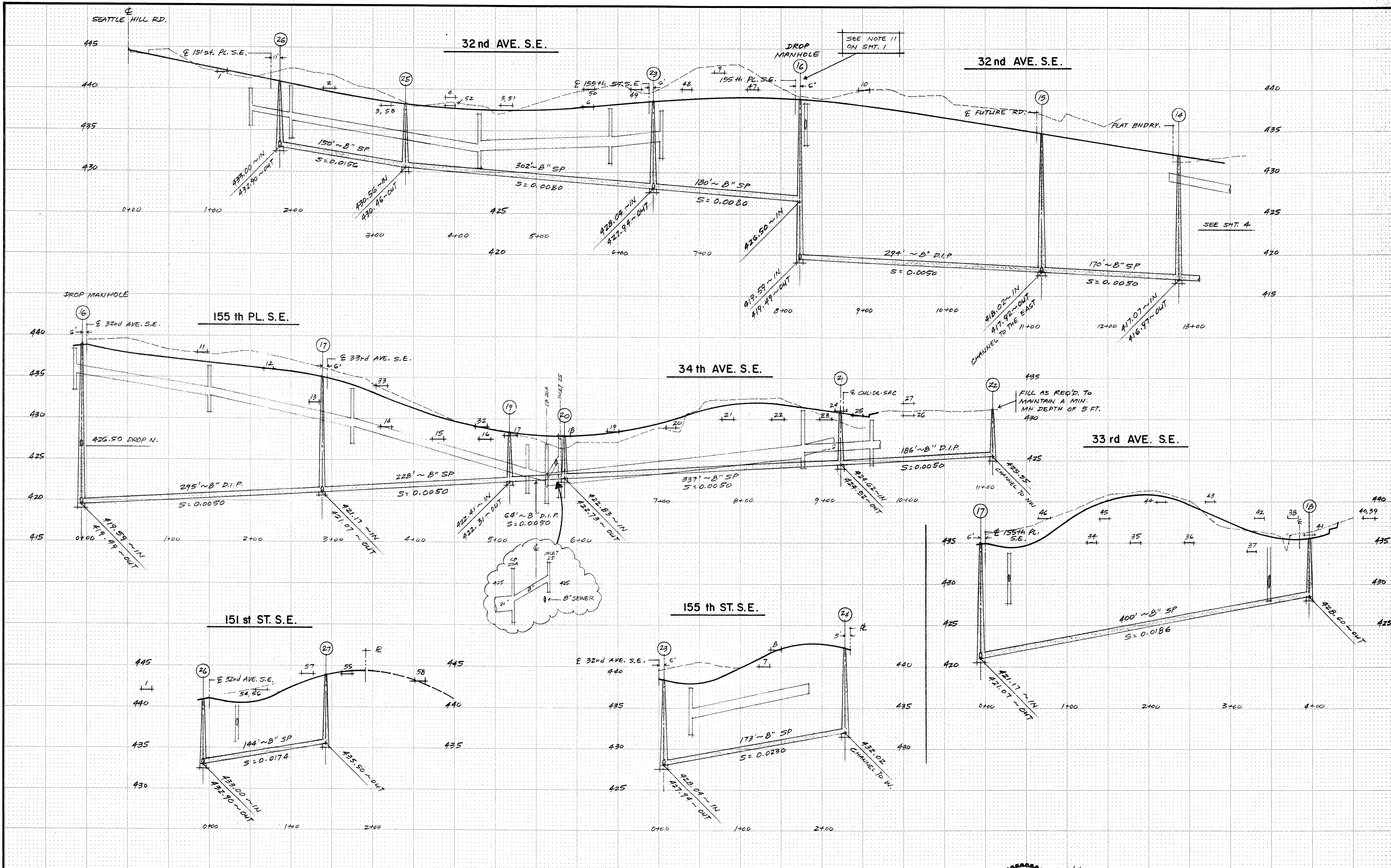
MILL CREEK
HIGHLANDS DIV. 4
(EXT. 1873)

ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

EXT. NO. 1614
Scale: 1" = 50'
Drawn: FD
Date: MAY 10, 1994
Designed: FD
Approved: BIM
Sheet: 5 of 6

The Parks at Mill Creek
Div. 1 & 2

NE 5-27-5



ALDERWOOD WATER DISTRICT
 3626 - 156th ST. S.W. Lynnwood, Wash.
 743 - 4605 98038

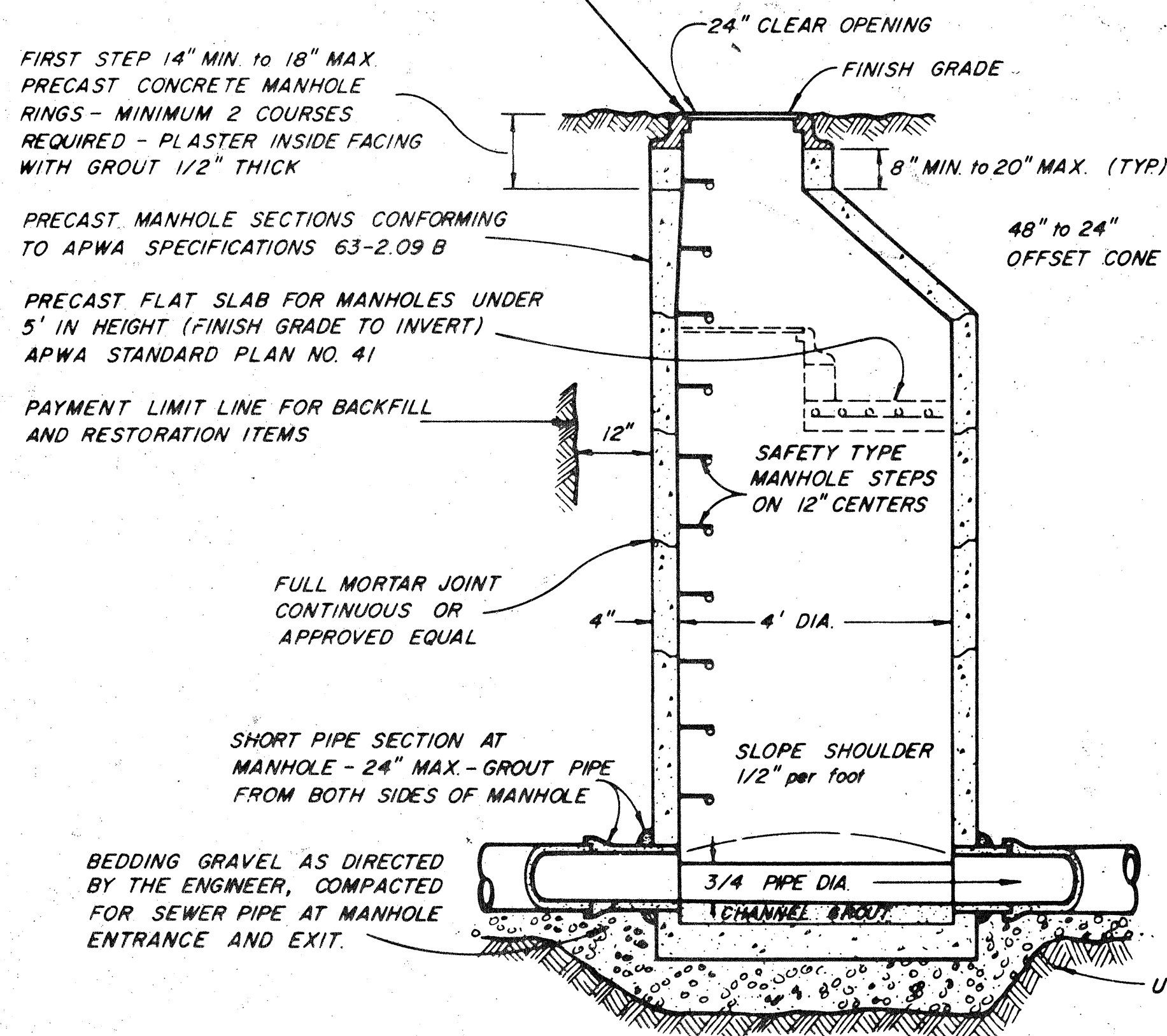
EXT. NO. 1614
 Scale: Hor. 1"=50'; Vert. 1"=5'

The Parks at Mill Creek
 Div. I & 2

Drawn	FD
Date	MAY 10, 1994
Designed	FD
Approved	BIM
Sheet	6 of 6

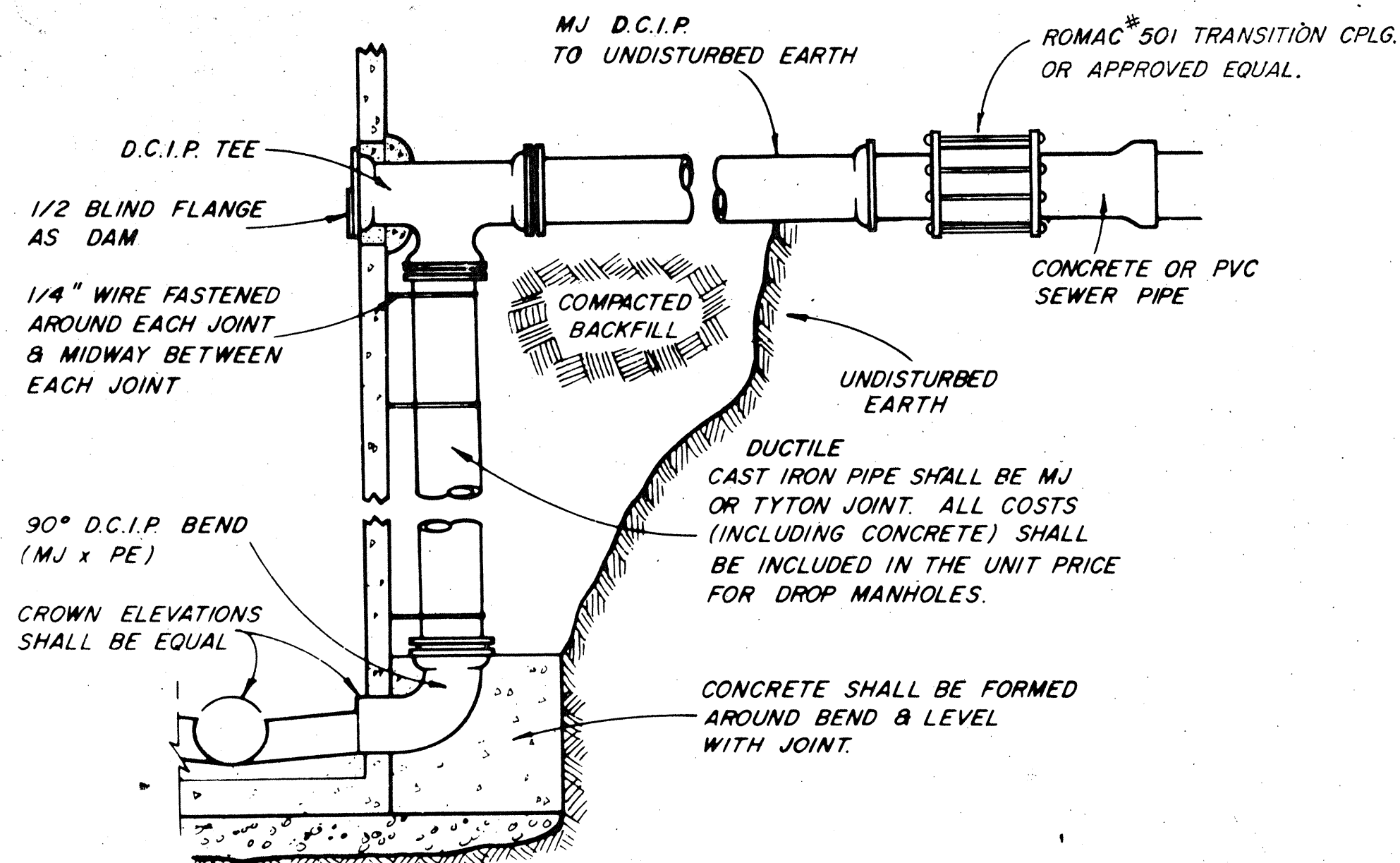
MANHOLE COVERS SHALL BE:

• SATHER MFG. CO. INC. MODEL AWD-2440 FRAME & LID WITH CAST-IN HANDLE & 3 - 5/8" STAINLESS STEEL ALLEN HEAD CAP SCREWS OR APPROVED EQUAL. MFG'S. NAME SHALL BE CAST IN COVER.

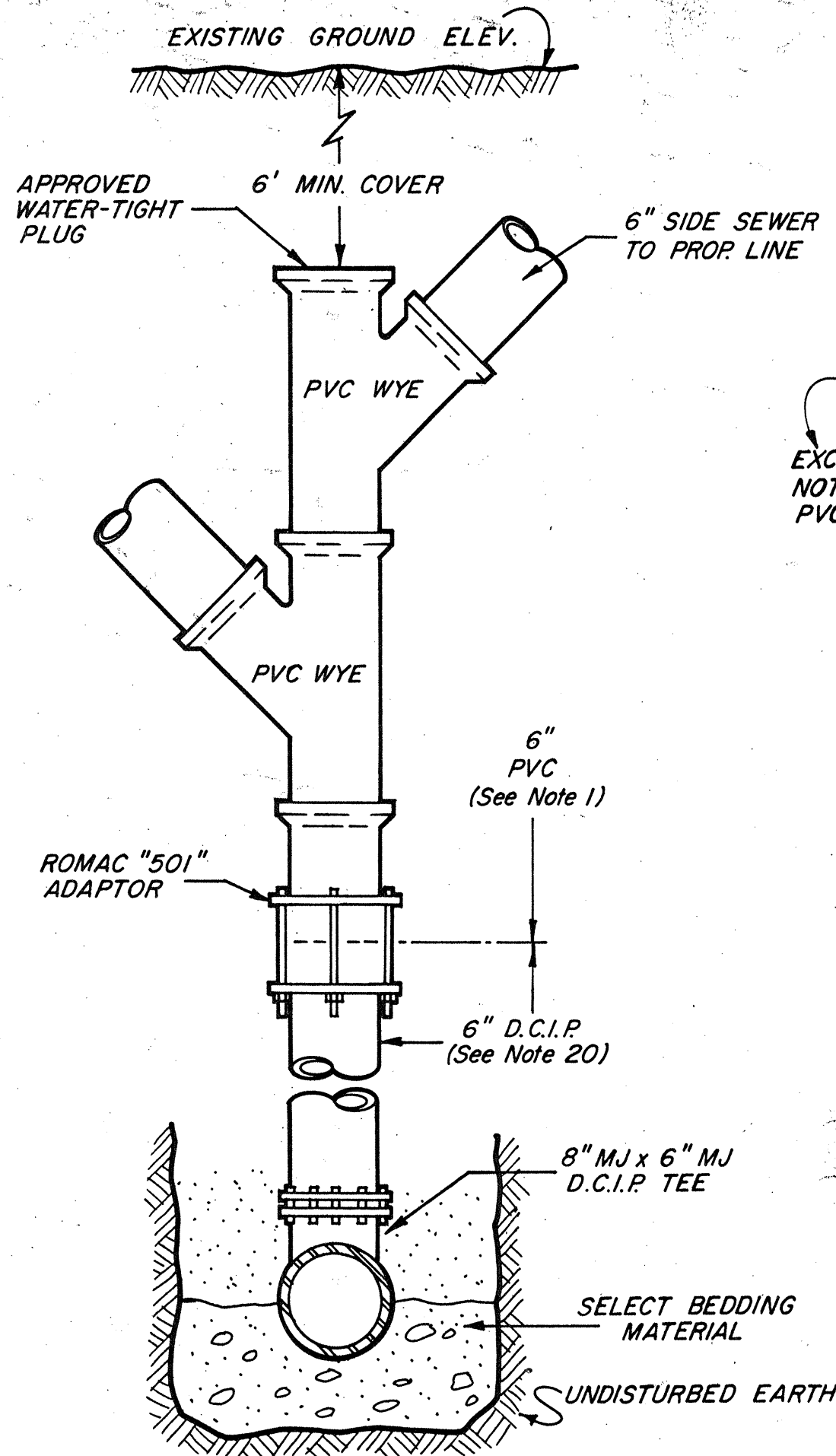


SANITARY SEWER MANHOLE

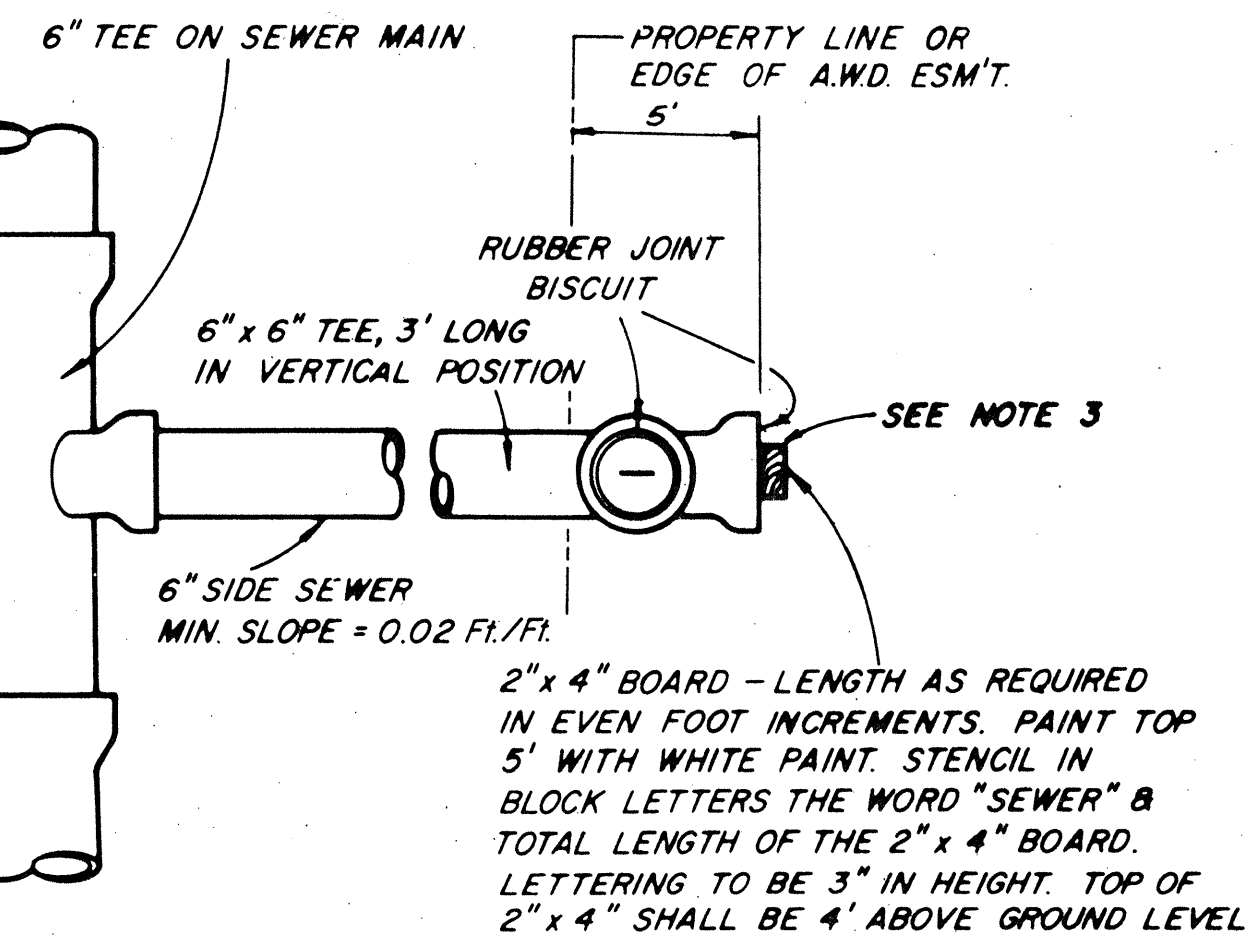
- NOTES:**
1. MANHOLE INSTALLATION SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS IN SEC. 63.
 2. 1/2" x 4" DIA. REMOVABLE PLYWOOD COVER SHALL BE PROVIDED FOR EACH MANHOLE TO BE INSTALLED AFTER TESTING & INSTALLATION HAS BEEN COMPLETED & SHALL REMAIN IN PLACE UNTIL ALL STREET WORK IN THE AREA HAS BEEN COMPLETED. COVERS SHALL BE REMOVED BY THE CONTRACTOR.
 3. MIN. HEIGHT OF MANHOLE SHALL BE 5' UNLESS APPROVED BY DISTRICT ENGR.



DROP MANHOLE CONNECTION

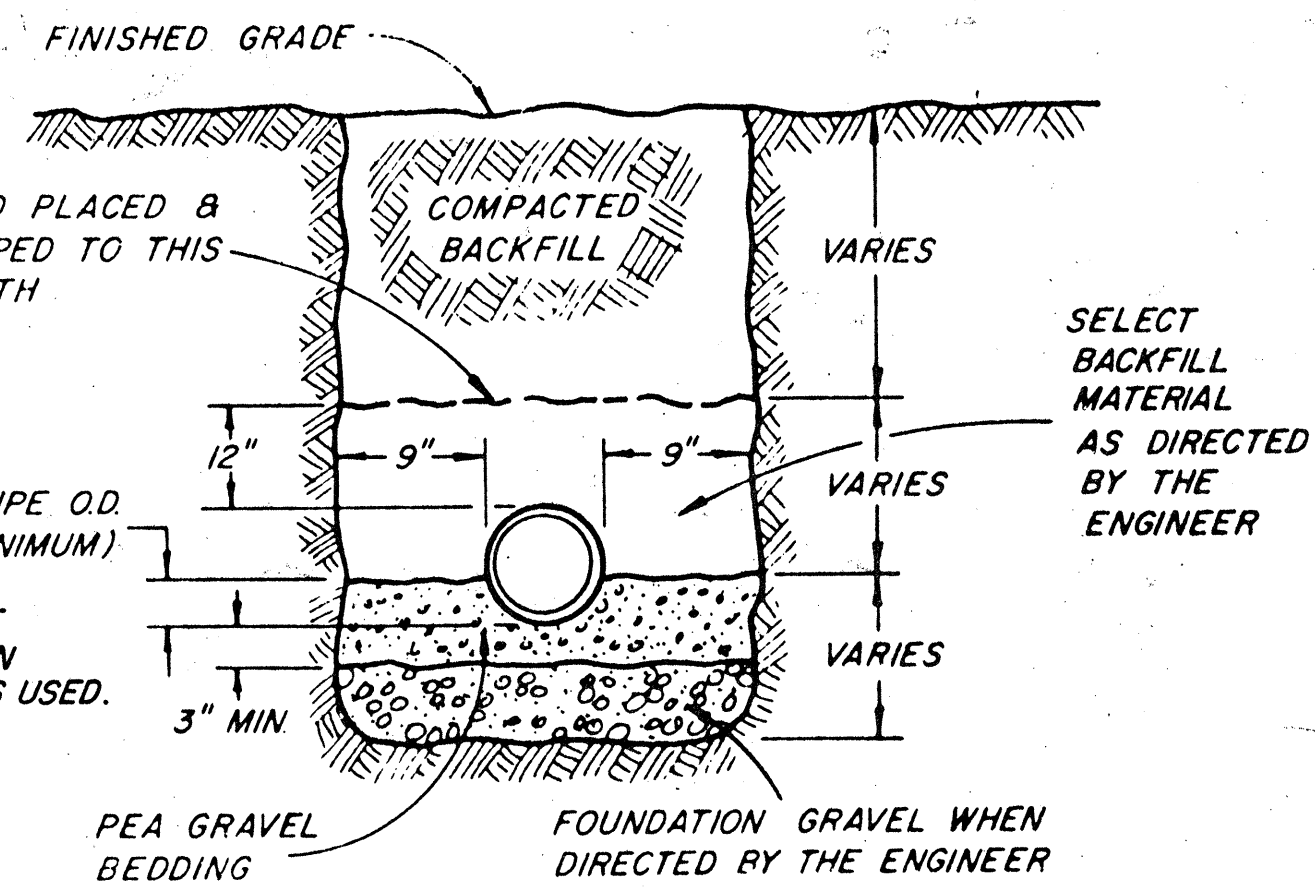


DUCTILE CAST IRON PIPE STANDING SIDE SEWER



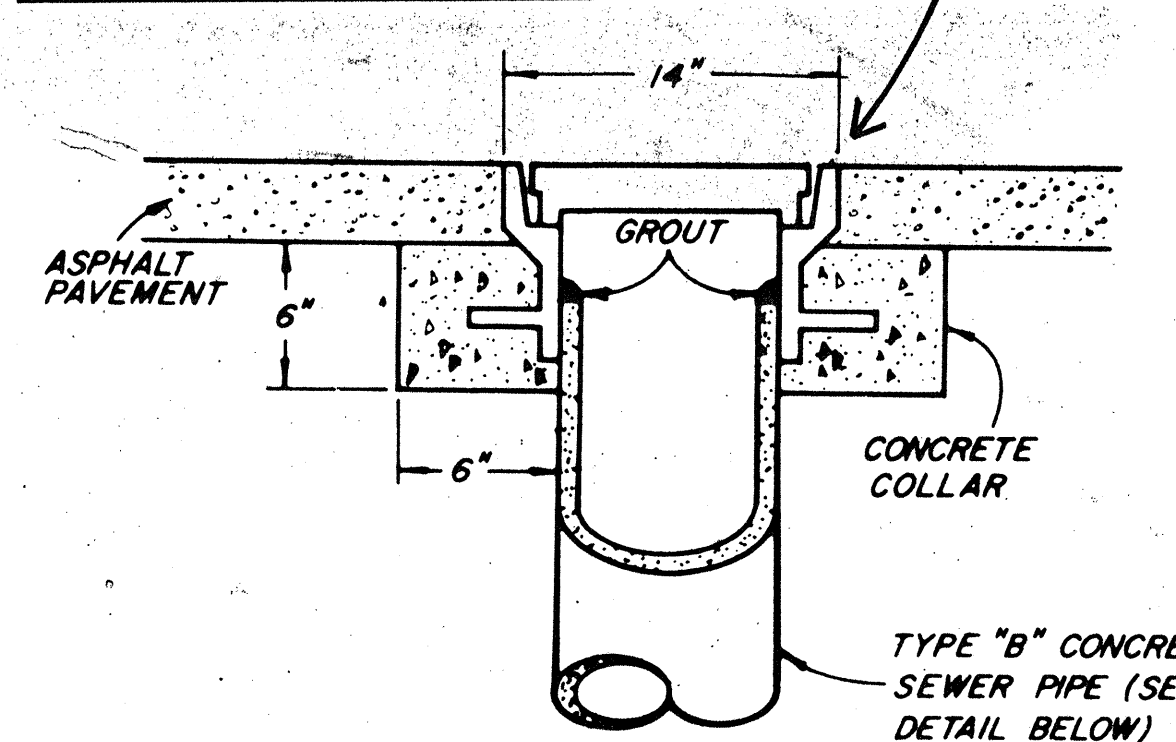
SIDE SEWER CONNECTION

- NOTES:**
1. SIDE SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS - SECTION 66.
 2. 6" x 6" VERT. TEE SHALL BE 3' MIN. IN LENGTH.
 3. IF SIDE SEWER IS PVC THEN ELIMINATE 6" x 6" TEE AND END WITH A 6" RUBBER GASKET PVC END CAP. BLOCK CAP AS DIRECTED BY ENGINEER.



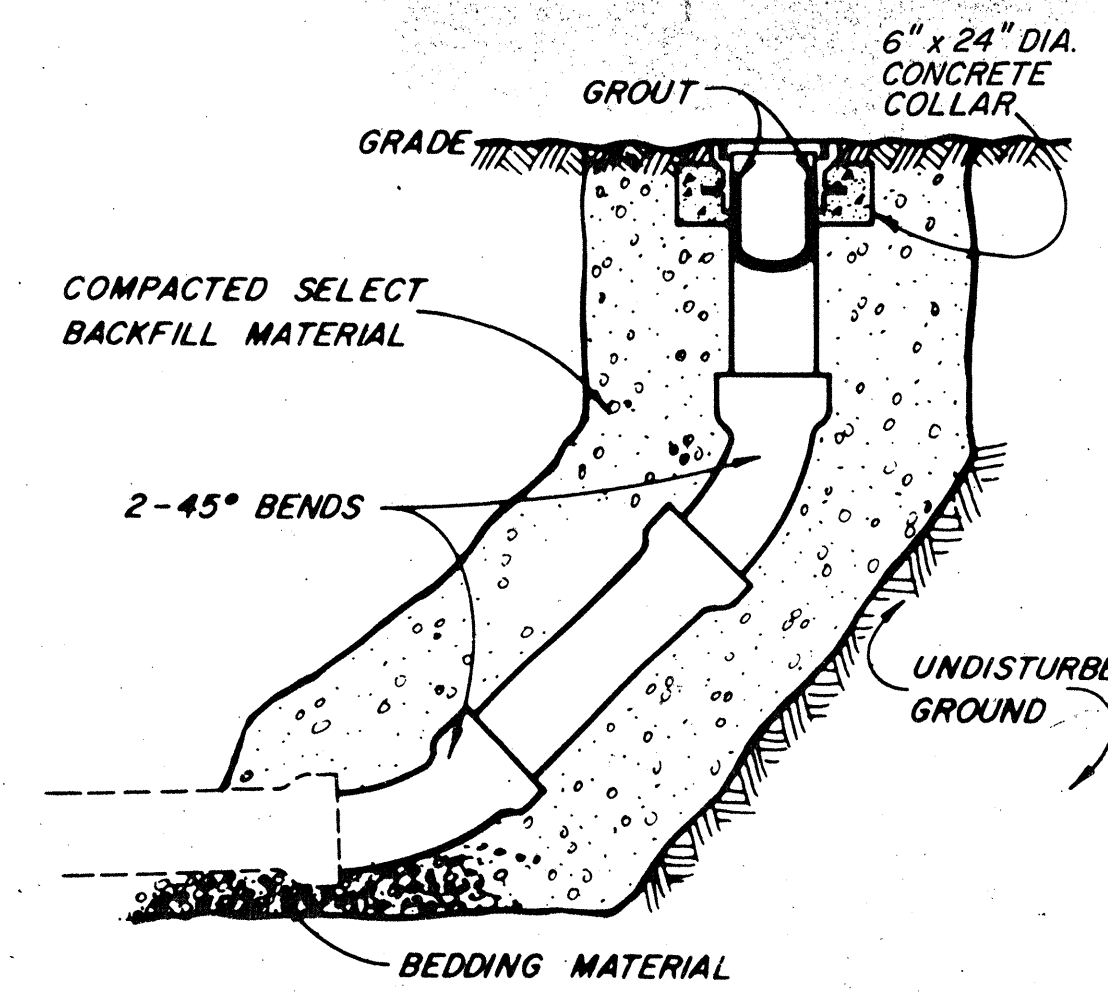
TYPICAL TRENCH DETAIL

• SATHER MFG. CO. INC. MODEL AWD-1212 LOCKING CLEAN-OUT RING & COVER (OR EQUAL) WITH 2 STAINLESS STEEL CAP SCREWS.



LAMPHOLE

STREET USE



LAMPHOLE

EASEMENT USE

GENERAL NOTES

1. ASTM D 3033, D 3034 OR F 789 PVC PIPE MAY BE USED PROVIDED THAT:
 - (a) CONCRETE SEWER PIPE (CSP) OR DUCTILE CAST IRON PIPE (DCIP) IS NOT SHOWN ON PLANS.
 - (b) DEPTH DOES NOT EXCEED 16 FEET.
 - (c) TOP OF BEDDING IS EXTENDED TO 4" ABOVE PIPE.
 - (d) CONNECTIONS TO MANHOLES ARE MADE WITH A.C. MANHOLE COUPLING.
 - (e) DEFLECTION TEST PER APWA SPEC. IS MADE 30 DAYS OR MORE AFTER BACKFILL.
2. TYPE OR CLASS OF PIPE SHALL NOT BE CHANGED BETWEEN MANHOLES OR LAMPHOLES.
3. INSTALLATION & TESTING OF SEWERS SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS - SECTION 61 & 62.
4. ALL PIPE SHALL BE "RUBBER GASKET" CONCRETE SEWER PIPE CONFORMING TO ASTM SPECIFICATIONS - C 14 CLASS 3 - UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING REPAIRED ASPHALT & GRAVEL SURFACES UNTIL ACCEPTED BY THE COUNTY ENGINEER.
6. GRADES ESTABLISHED BY CONTOURS FURNISHED BY THE DEVELOPER. DEVELOPER SHALL BE RESPONSIBLE FOR ADJUSTING GRADES TO ACCOMMODATE FIELD CONDITIONS WHICH SHALL FIRST BE APPROVED BY THE ENGINEER.
7. ALL PERMITS FOR CONSTRUCTION SHALL BE ACQUIRED BY DEVELOPER.
8. DEVELOPER SHALL BE RESPONSIBLE FOR ADJUSTING MANHOLE FRAMES & COVERS UPON COMPLETION OF FINAL LOT GRADES.
9. DEVELOPER SHALL CONTACT UTILITIES FOR EXACT LOCATIONS.
10. ALL 6" SIDE SEWERS INCLUDING TEES SHALL END WITH A 6" VERTICAL INSPECTION TEE, 3 FT. MIN. LENGTH. EXCEPT AS NOTED IN NOTE 3 SS. DETAIL.
11. SEWER CONSTRUCTION STAKING SHALL BE PROVIDED BY THE DEVELOPER.
12. WHERE SHOWN ON THE PLANS, THE DEVELOPER SHALL EXCAVATE & DISTRICT WILL TAP EXISTING SEWER. DEVELOPER SHALL PAY COST OF TAPPING.
13. FIELD VERIFY MANHOLE INVERT AND ADJUST GRADE ACCORDINGLY WHEN CONNECTING TO EXISTING MANHOLES.
14. SANITARY SEWER SHALL BE TESTED AFTER COMPLETION OF ALL OTHER UNDERGROUND UTILITIES.
15. A SUITABLE PLUG SHALL BE INSTALLED IMMEDIATELY UPON COMMENCEMENT OF CONSTRUCTION OF SANITARY SEWER AND SHALL REMAIN INSTALLED UNTIL FINAL ACCEPTANCE OF PROJECT. IF PLUG IS NOT INSTALLED, THE WATER DISTRICT WILL INSTALL A PLUG AND CHARGE ACCORDINGLY.
16. 6" SEWER CLEANOUTS ARE REQUIRED EVERY 100 FEET AND AT BENDS GREATER THAN 45°. THE CLEANOUT SHALL BE A WYE LATERAL AND SHALL BE BROUGHT TO WITHIN 18" OF THE SURFACE IN AN UNPAVED AREA OR BROUGHT TO THE SURFACE IN A PAVED AREA WITH A CAST IRON COVER (SEE LAMPHOLE DETAIL - STREET USE).
17. SEWER MAINS 8" & LARGER SHALL BE T.V. INSPECTED BY DEVELOPER'S CONTRACTOR. MANHOLES SHALL BE CHANNLED, MAINS FLUSHED AND WATER RUN IN LINE WHEN TELEVIEWED, ALL CONFORMING TO RESOLUTION SR 642-83.
18. MINIMUM OF 36" VERTICAL CLEARANCE & 10 FEET HORIZONTAL CLEARANCE REQUIRED BETWEEN SEWER & WATER LINES. IF UNABLE TO MEET, THEN CONSTRUCT PER SEC. 2.41 "D.O.E. CRITERIA FOR SEWAGE WORKS DESIGN" AND AMENDMENTS THERETO.
19. WHERE A NEW MANHOLE IS REQUIRED FOR CONSTRUCTION OVER AN EXISTING PVC SEWER MAIN A STANDARD MANHOLE SHALL BE USED AND CONNECTED TO EXISTING MAIN USING A.C. MANHOLE COUPLINGS.
20. UNLESS OTHERWISE NOTED, ALL D.C.I.P. SHALL BE A.W.W.A. C 151 CLASS 53.

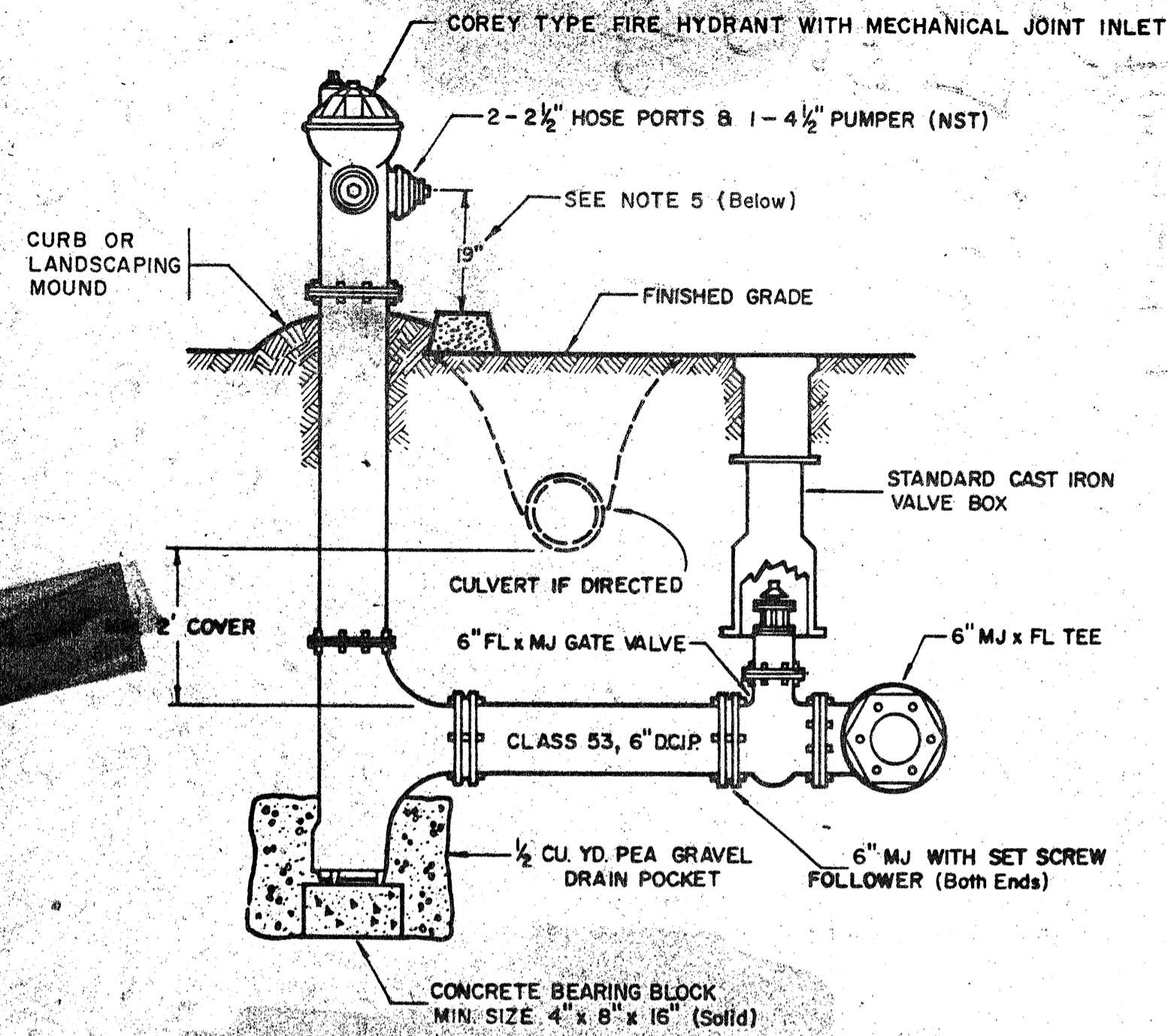
REV.	DESCRIPTION	DWN.	DATE	APPD.
L	Revised Manhole & Lamphole Cover & Frame Reference	FD	3-31-86	DS
K	REVISED STANDING SIDE SEWER DETAIL	FD	2-22-85	AB
J	ADDED F789 TO NOTE 1, also DCIP TO NOTE 1 (a).	FD	6-28-84	PJB
H	CHANGED DROP M.H. NOTES 1(a), 10, 18, & ADDED 20	BB	9-1-83	PJB
G	CHANGED NOTE 17 (Developer's Contractor to T.V.)	FD	7-1-83	PJB
F	ADDED NOTE 19	FD	5-30-83	PJB
E	Changed Note 1 (a) from 12" to 4" of General Notes	FD	6-9-82	PJB
D	ELIM. NOTE 1 (b), REV'D 1 (c.) & 1 (d.) of General Notes	FD	5-28-82	JK
C	ADDED NOTE 18	FD	2-9-82	DLS
B	ADDED NOTE 17	FD	4-6-81	PJB
A	REV'D. NOTE ON MANHOLE COVERS	FD	11-17-80	PJB

FOR DEVELOPER EXTENSIONS

ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

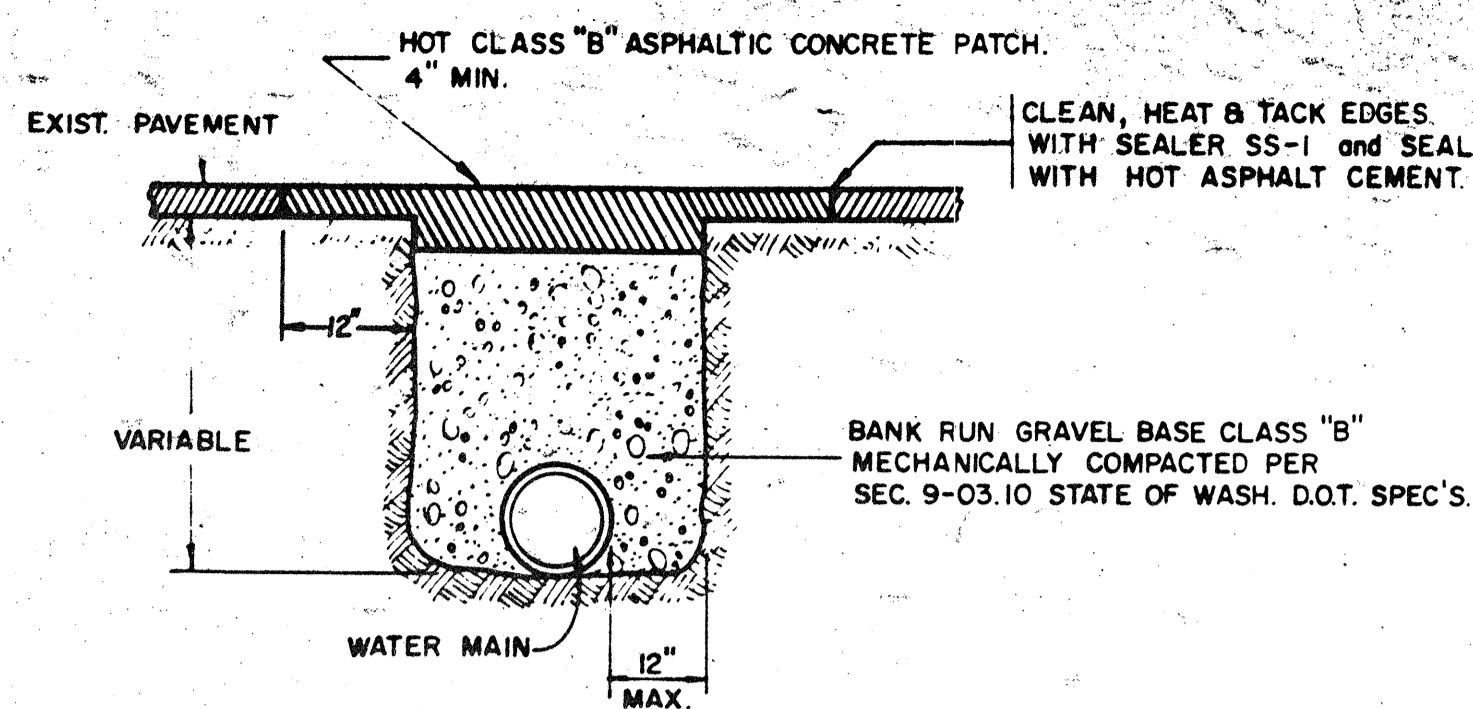
Water Ext. No. _____
Sewer Ext. No. _____
Scale: NOT TO SCALE
Drawn: FD
Date: OCT. 1980
Designed: PJB
Approved: LDE
Sheet: 1 of 1

STANDARD SEWER DETAILS



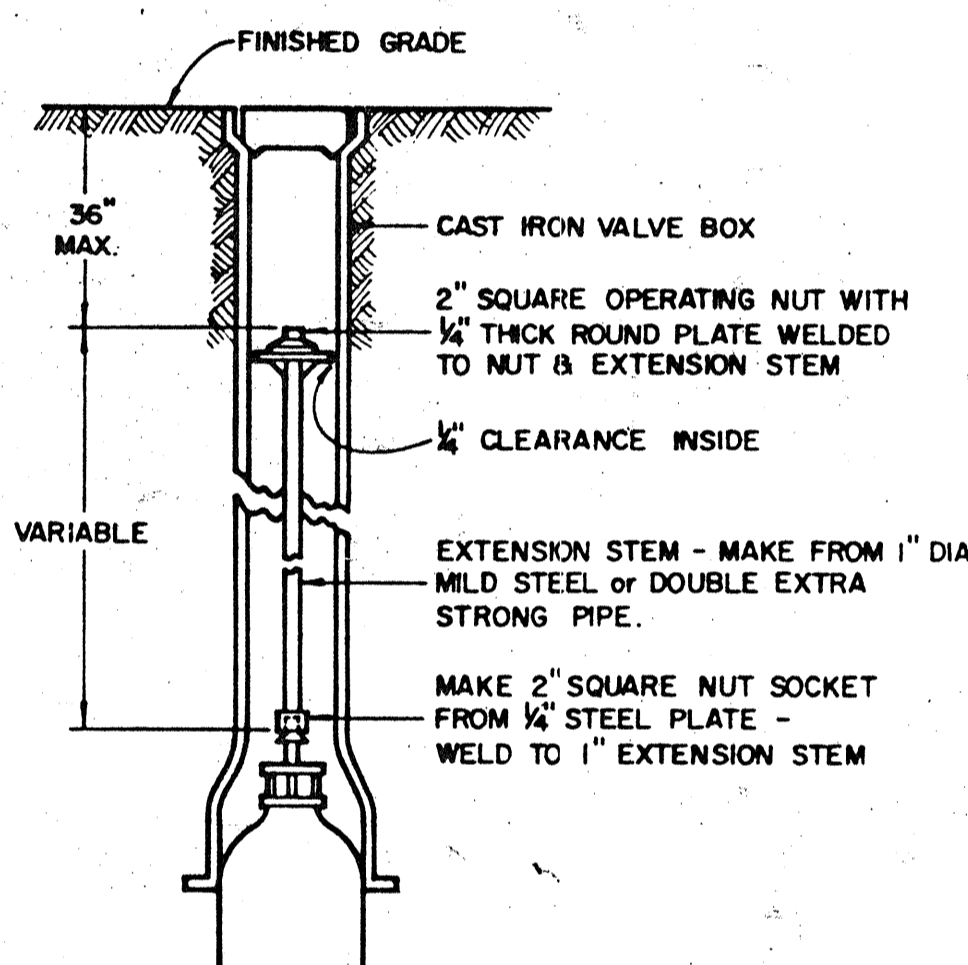
HYDRANT ASSEMBLY

- NOTES:
1. PAINT HYDRANT WITH 2 BRUSHED COATS OF PRESERVATIVE (Brand) PAINT, No. 43-114 International Yellow.
 2. WHEN HYDRANT SPOOL EXCEEDS 18' USE 6" MJ SLEEVE WITH SET SCREW FOLLOWERS.
 3. HYDRANTS SHALL BE FURNISHED WITH BREAKING FLANGE OR BOLTS.
 4. GUARD POSTS REQUIRED ON ALL HYDRANTS SUBJECT TO TRAFFIC INTERFERENCE.
 5. MINIMUM 19" CLEARANCE TO TOP OF CURB OR LANDSCAPE BERM WHICHEVER IS HIGHER.

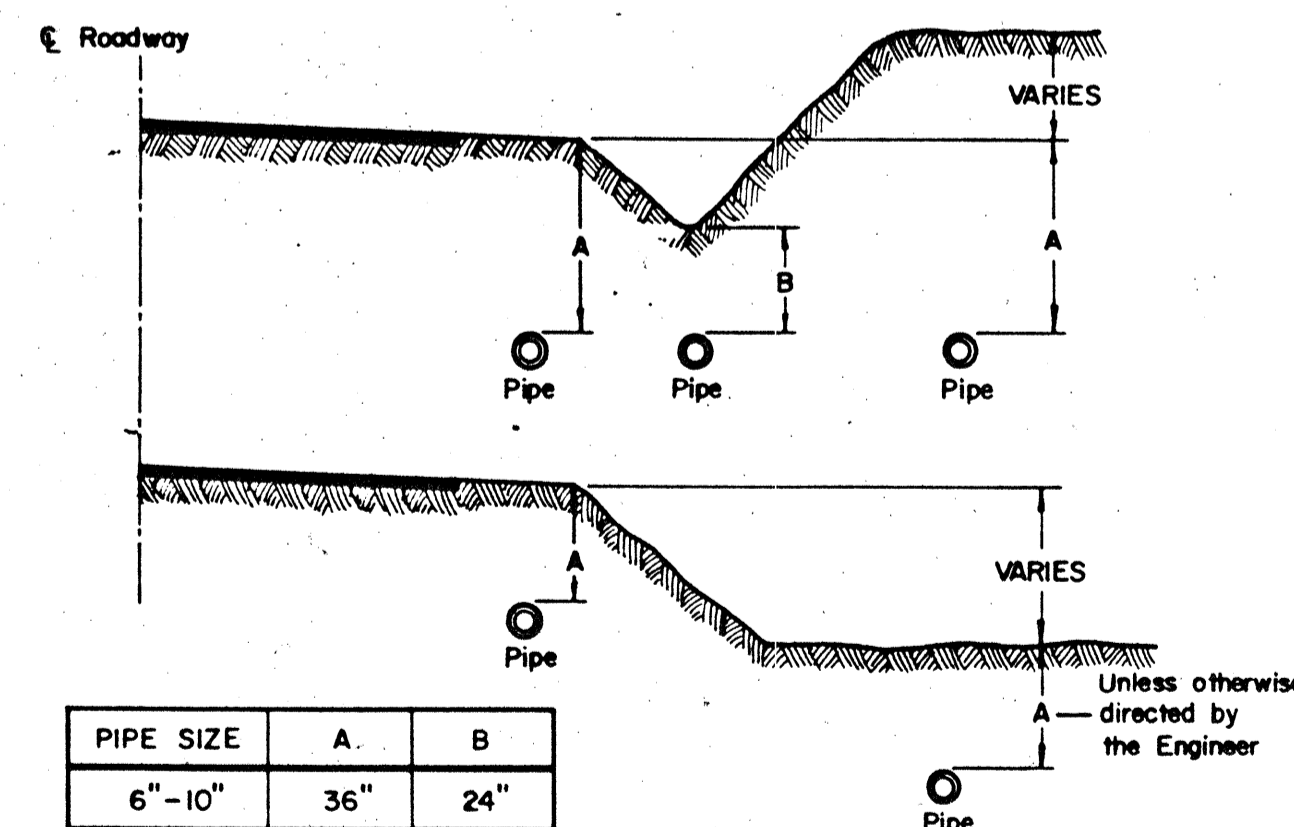


RESTORATION & BACKFILL ACROSS PAVED AREAS

- NOTES:
1. CROSSINGS SHALL BE TEMPORARILY REPAVED WITH COLD MIX.
 2. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 5-04 OF THE WASH. STATE D.O.T. SPEC'S.



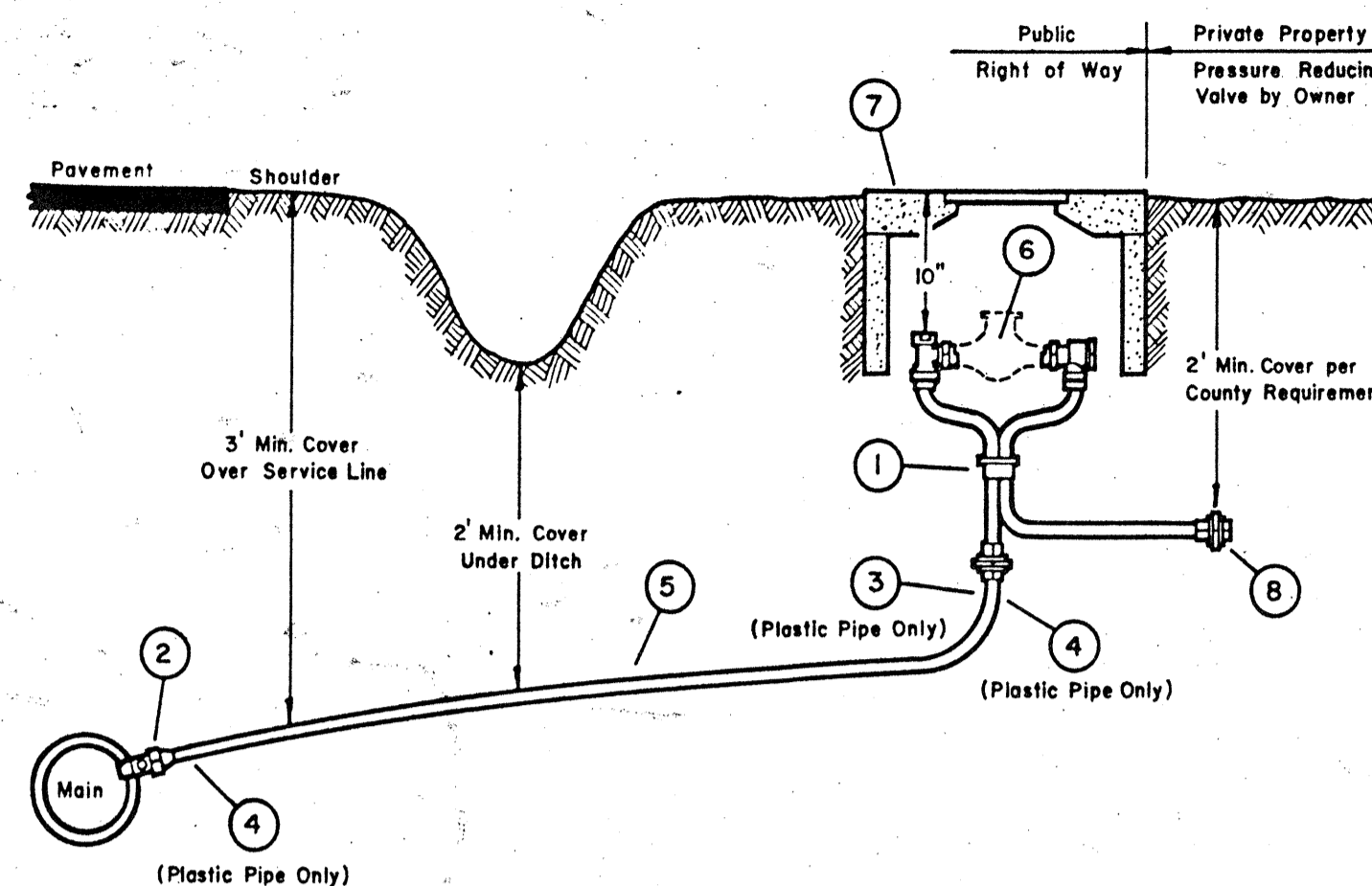
VALVE EXTENSION STEM



STANDARD DEPTH REQUIREMENTS

NOTE: DEPTH SHALL BE NO LESS THAN DIMENSION "A" BELOW ROAD SHOULDER & SHALL HAVE MINIMUM COVER NOT LESS THAN DIMENSION "B".

3/4" & 1" Meter Service Installation
ALDERWOOD WATER DISTRICT



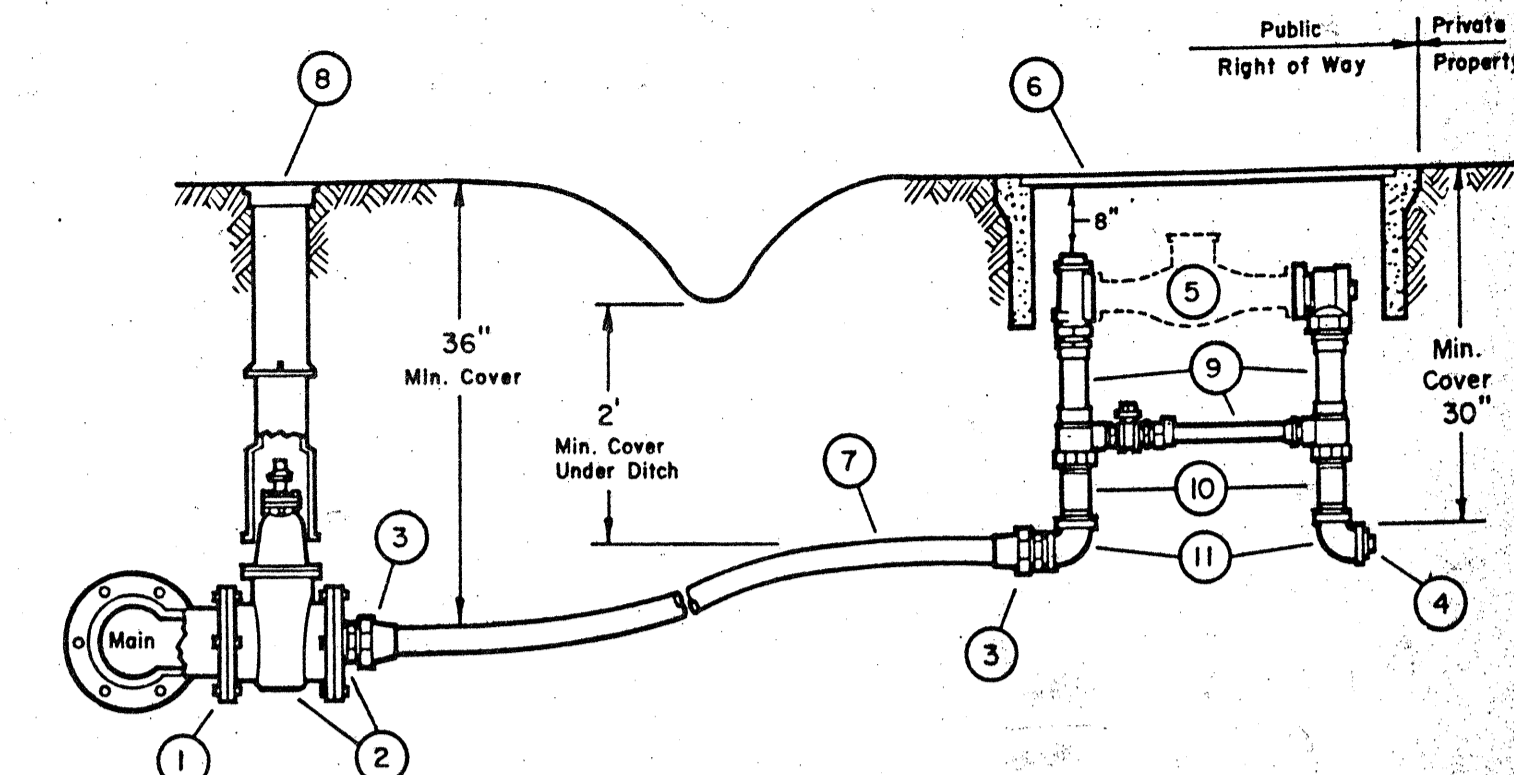
NO.	ITEM	MATERIAL	SIZE	MANUFACTURER			
				FORD	MUELLER	JONES	HAYS
1	METER SETTER	COPPER	3/4"	3/4" x 5/8" METER SETTER, FORD VBH 92-12 x 15 EXTENSION with Vertical Inlet, or on approved equal.			
		COPPER	1"	1" METER SETTER, FORD VBH94-15 x 15 EXTENSION with Vertical Inlet, or on approved equal.			
2	CORPORATION STOP	FOR COPPER SERVICE	3/4"	F600	H-15000	J-1500	5200
		FOR PLASTIC SERVICE	3/4"	F400	H-9996	J-45	5281
3	MIP x INSERT (Plastic Size)	BRASS	3/4"	PTF-1	H-12218	J-1400	
			1"	PTF-2	H-12218	J-1400	
4	STAINLESS STEEL CLAMP (2 Req'd per Connection)	Use on Plastic Pipe Only	3/4"	COMBO-HEX IDEAL No. 6816			
5	PIPE	PLASTIC (Under 100 PSI)	1"	Class 160, Ultra High Molecular Weight Polyethylene 3406 ASTM D-2239, Product Standard PS-11-69, SDR7			
		COPPER (100 PSI & Over)		Federal Spec. WW-T-799, Type K ASTM Spec. B88, Type K AWWA Spec. 75-CR, Type K			
6	METER (Furnished by A.W.D.)						
7	METER BOX		3/4"	FOG TITE B 9 1/2 H or T; or BROOKS 37H or T			
8	PLUG SIZE x M.I.P.		1"	FOG TITE B 10 H or T			

- NOTES:
1. SPLICES - No Splices under blocktop, Maximum of one splice allowed. Use Mueller Union H-15400 or approved equal.
 2. See Service Connection Specification Sheet for more detailed installation information.
 3. Owners are responsible for installing Pressure Reducer on their system to protect their facilities from High Pressure.

GENERAL NOTES

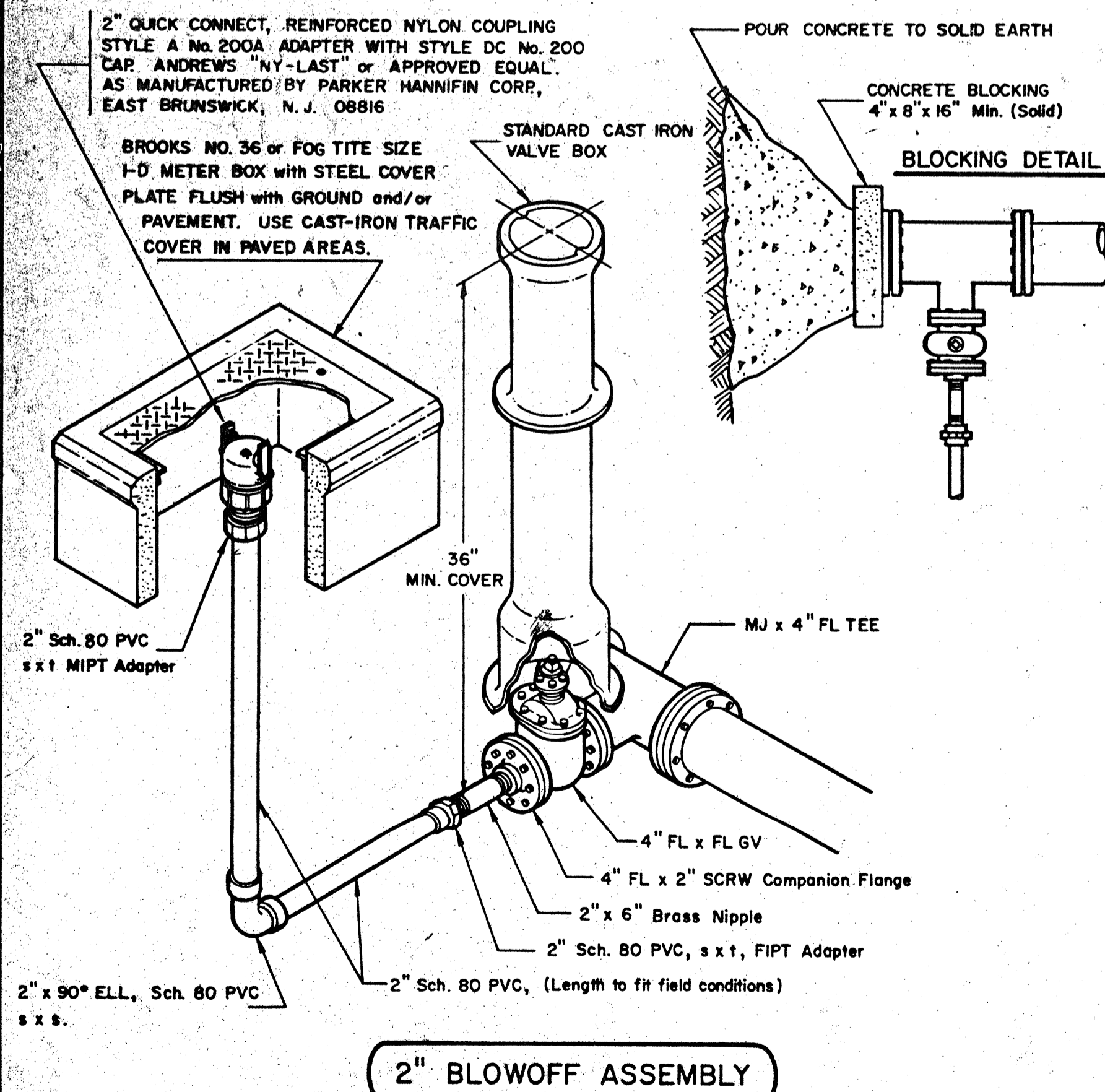
1. DUCTILE CAST IRON PIPE SHALL BE CEMENT MORTAR LINED TYTON JOINT CLASSED AS FOLLOWS:
6" - 8" CLASS 53
10" - 12" CLASS 52
14" - 20" CLASS 51
24" - 36" CLASS 50
2. TEES, BENDS & FITTINGS SHALL BE CLASS 250 DUCTILE CAST IRON OR CAST IRON. ALL FITTINGS SHALL BE COATED INSIDE WITH LIGHT CEMENT MORTAR LINING AND OUTSIDE WITH BITUMINUS COATING.
3. WATER MAIN TAPS OR CUT-INS: DEVELOPER SHALL EXCAVATE, PROVIDE ALL MATERIALS & PAY RELATED FEES. DISTRICT WILL MAKE TAP.
4. ALL MATERIALS LISTED ON PLANS WHICH ARE NOT INCORPORATED INTO THE WORK SHALL BECOME THE PROPERTY OF THE DISTRICT.
5. ALL MAINS & APPURTENANCES SHALL BE TESTED AT 250 P.S.I. & LEAKAGE SHALL NOT EXCEED A.W.W.A. SPECIFICATIONS, EXCEPT AS NOTED BELOW (SEE NOTE 12).
6. DISINFECTION OF MAINS SHALL BE DONE IN ACCORDANCE WITH A.P.W.A. 74-2.13
7. EXISTING VALVES MAY NOT BE ADEQUATE FOR TESTING PURPOSES. IF CONTRACTOR ELECTS TO TEST AGAINST EXISTING VALVES AND TEST FAILS, THEN CONTRACTORS SYSTEM SHALL BE DISCONNECTED AND TESTED INDEPENDENTLY ALL AT CONTRACTORS EXPENSE.
8. MINIMUM OF 36" VERTICAL CLEARANCE & 10 FEET HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER & SEWER LINES.
9. OPERATION OF VALVES: SEVERE PENALTIES ARE PROVIDED FOR UNAUTHORIZED OPERATION OF EXISTING VALVES AND/OR TIE-IN VALVES. THESE VALVES MUST BE OPERATED BY DISTRICT PERSONNEL ONLY.
10. ALL STREETS OR ROADS SHALL BE GRADED TO WITHIN 6" OF FINAL GRADE BEFORE WATER LINES ARE INSTALLED.
11. PROVIDE REINFORCED CONCRETE VALVE MARKER POST FOR EACH VALVE LOCATED OUTSIDE OF PAVED AREAS. POST SHALL BE EQUAL TO "FOG-TITE" AND SHALL BE PAINTED WITH TWO BRUSHED COATS OF PRESERVATIVE (Brand) PAINT, No. 43-114 International Yellow. Distance to valve shall be stenciled in black numerals 2" high.
12. WHEN STATIC PRESSURE EXCEEDS 150 P.S.I. ALL MAINS AND APPURTENANCES SHALL BE TESTED AT 300 P.S.I.
13. A BACKFLOW PREVENTIVE DEVICE APPROVED BY A.W.D. SHALL BE REQUIRED ON WATER SERVICES WHERE IRRIGATION SYSTEMS, SWIMMING POOLS, JACUZZI'S, HOT TUBS AND THE LIKE ARE BEING SERVED; OR AS DIRECTED BY A.W.D.

1 1/2" & 2" Meter Service Installation
ALDERWOOD WATER DISTRICT



NO.	ITEM	MAT'L.	REMARKS
1	MJ x 4" FL TEE	C.I. or D.C.I.P.	
2	4" FL x FL GV with 4" FL x 2" (or 1 1/2" with Brass Bushing) SCRW Reduction Flange.	A.W.W.A.	
3	Flored Copper Cplg. (Copper x M.I.P.T.)	Brass	FORD: 1 1/2", C28-66 2", C28-77 MUELLER: H-15425 JONES: J1531 HAYES: 5605
4	PLASTIC PLUG, Sched. 40	PVC	
5	METER		FURNISHED BY A.W.D.
6	Meter Box; Fog Tite 2 Tor Brooks 65-TR, with steel traffic cover (see note 4).		See Note 4
7	Type "K" Copper Pipe (Soft)	Copper	
8	Standard Cast-Iron Valve Box	Cast-Iron	
9	METER SETTER		1 1/2", FORD No. VBH66-12BX13 (or approved equal) 2", FORD No. VBH77-12BX17 (or approved equal)
10	6" NIPPLE (M.I.P.T. x M.I.P.T.)	Brass	6" or an approved length for proper grade set.
11	90° EL	Brass	

- NOTES:
1. SPLICES - No Splices under blocktop, Maximum of one splice allowed. Use Mueller Union H-15400 or approved equal.
 2. See Service Connection Specification Sheet (sh.2) for more detailed installation information.
 3. Owners are responsible for installing Pressure Reducer on their system to protect their facilities from High Pressure.
 4. Plastic Shell & Cover (Carson Industries 1324-15L) may be used in Non-Traffic areas only, when approved by A.W.D.



2" BLOWOFF ASSEMBLY

NOTE: Use Solvent Sch. 80 PVC Figs. only.

REV.	DESCRIPTION	DWN.	DATE	APP'D.
V	ADDED BROOKS 37H or T to NOTE 7 of 3/4" Meter Service Inst'l.	FD	10-28-88	DLS
U	REV'D. NOTE 11 OF GENERAL NOTES (to conform to Note 1 of Hydrant Detail rev'd. 5-7-86)	FD	2-29-88	DLS
T	*REV'D. METER BOX ON 1 1/2" & 2" SERVICE (No. 6) and Note 4 ADDED "OR EQUAL" to 3/4" METER BOX (No. 7), also Rev'd. Note 13 of Gen. Notes	FD	12-9-87	DLS
S	ADDED NOTE 13 TO GENERAL NOTES	FD	Jan. 15, '87	DLS
R	ADDED NOTE 5 TO FIRE HYDRANT & REVISED DWG.	FD	Dec. 23, '86	DLS
Q	REV'D. Meter Setter Numbers for 3/4" & 1" and 1 1/2" & 2"	FD	Dec. 11, '86	RP
P	REV'D. HYDRANT DETAIL (COREY TYPE ONLY)	FD	Oct. 1, '86	DLS
O	REV'D. NOTE 1 TO FIRE HYDRANT DETAIL	FD	May 7, '86	AB
N	REV'D. 3/4" & 1" METER DETAIL, Changed 1" Meter Setter to VH 94-15	FD	Jan. 9, '86	DLS
M	REV'D. 3/4" & 1" METER DETAIL, ADDED 1 1/2" & 2" METER DETAIL	FD	Dec. 5, '85	DLS
L	ADDED NOTE 12, ADDED 2x4 TO WATER METER DETAIL	FD	Jul. 29, '85	DLS
K	REVISED METER BOX CALLOUT TO INCLUDE DRIVEOVER BOXES.	FD	Jan. 29, '85	DLS
J	DELETED CLOW F2500 HYDRANT	FD	Jul. 30, '84	PJB
I	ADDED NOTE 11 TO GEN. NOTES, ADDED CLOW F2500 HYDRANT	FD	Max. 19, '84	PJB
H	REV'D. NOTE 2 ON HYDRANT, REV'D. 2" BLOWOFF ASSY. DWG.	FD	Jun. 16, '83	PJB
G	ADDED ACCEPTANCE OF BROOKS NO. 36-H METER BOX	FD	Jan. 27, '83	JK
F	ADDED NOTE 10 TO GENERAL NOTES	FD	Nov. 5, '82	MS
E	ADDED NOTE 9 TO GENERAL NOTES	FD	May 12, '82	JK
D	ADDED NOTE 8 TO GENERAL NOTES	FD	Feb. 9, '82	DLS
C	Elim. note 3, Restoration... Added note ref. 1 1/2" & 2" Meters	FD	Nov. 24, '81	PJB
B	ADDED NOTE 7 TO GENERAL NOTES	FD	NOV. 6, '81	PJB
A	ADDED NOTE 5 TO FIRE HYDRANT DETAIL	FD	NOV. 2, '81	PJB

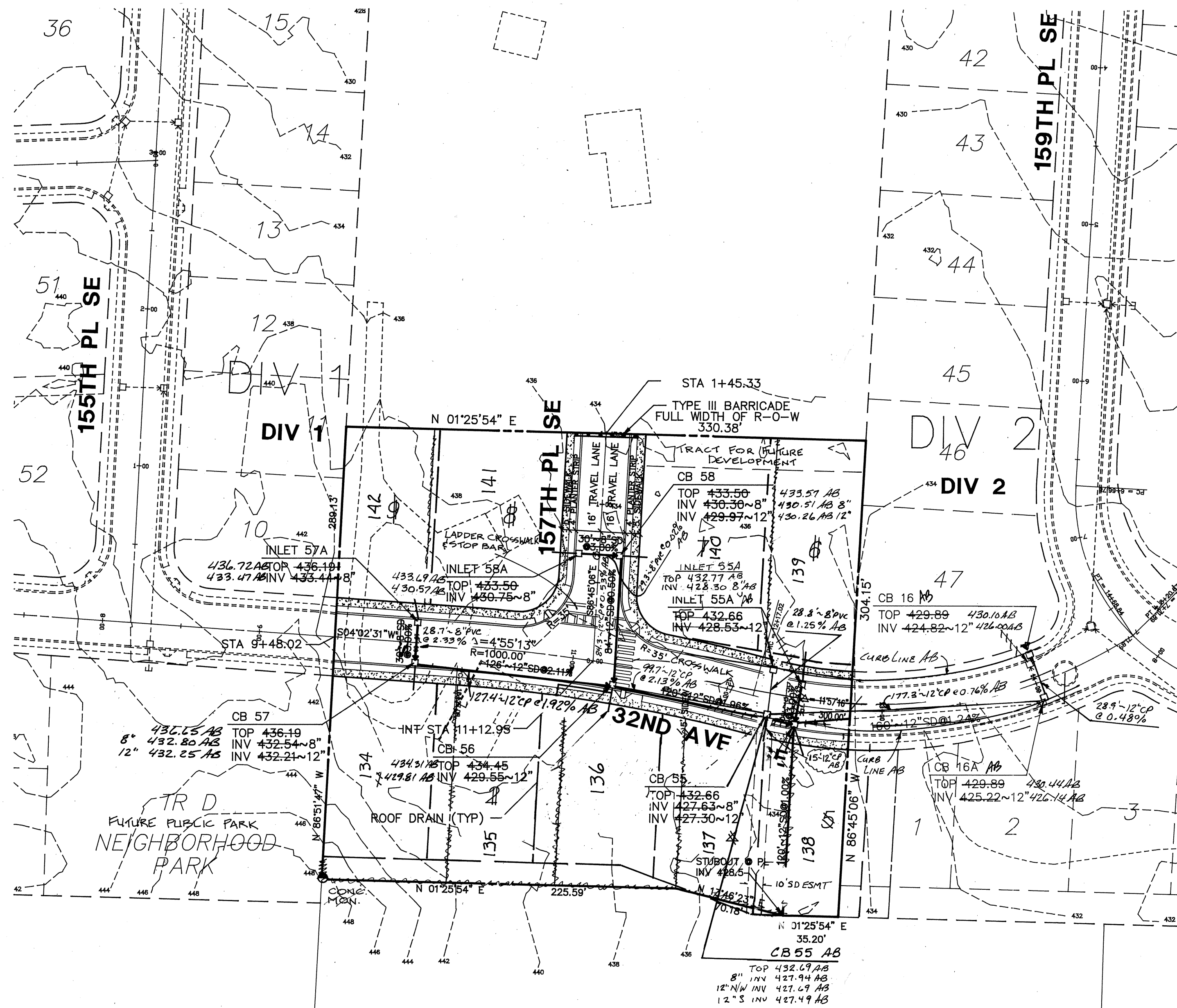
ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

Scale: Not to Scale

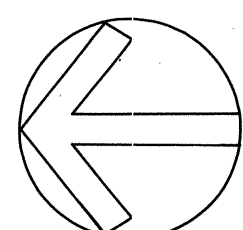
STANDARD WATER DETAILS

Drawn	FD
Date	APRIL 1981
Designed	ENGR. DEPT.
Approved	PJB
Sheet	OF

SEC 5, TWP 27N, RGE 5E, W.M.



DIV 5



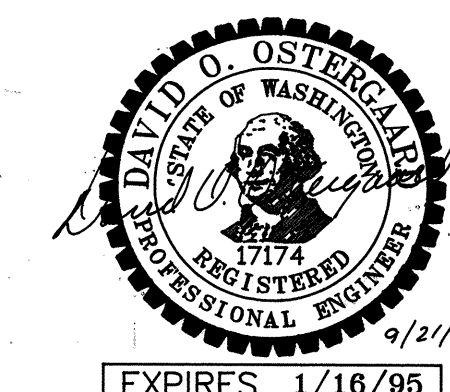
SCALE: 1" = 50'

DATE	9/07/94 1/31/96 1/31/97
REVISION	PER CITY 57004 AS BUILTS Lots - Editions
BY	LDR MEZ MCE

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 & ASSOC. INC. CONSULTING ENGINEERS
 3630 COLBY AVE.
 BELLEVUE, WA 98001
 (206) 259-6445

THE PARKS AT MILL CREEK
 ROAD + STORM DRAINAGE PLAN
 CITY OF MILL CREEK WASHINGTON

DIVISION 5



EXPIRES 1/16/95

APPROVED FOR CONSTRUCTION
 CITY OF MILL CREEK

 CITY ENGINEER DATE 20 Sept 94

AS BUILT
 AS INDICATED BY "AB"

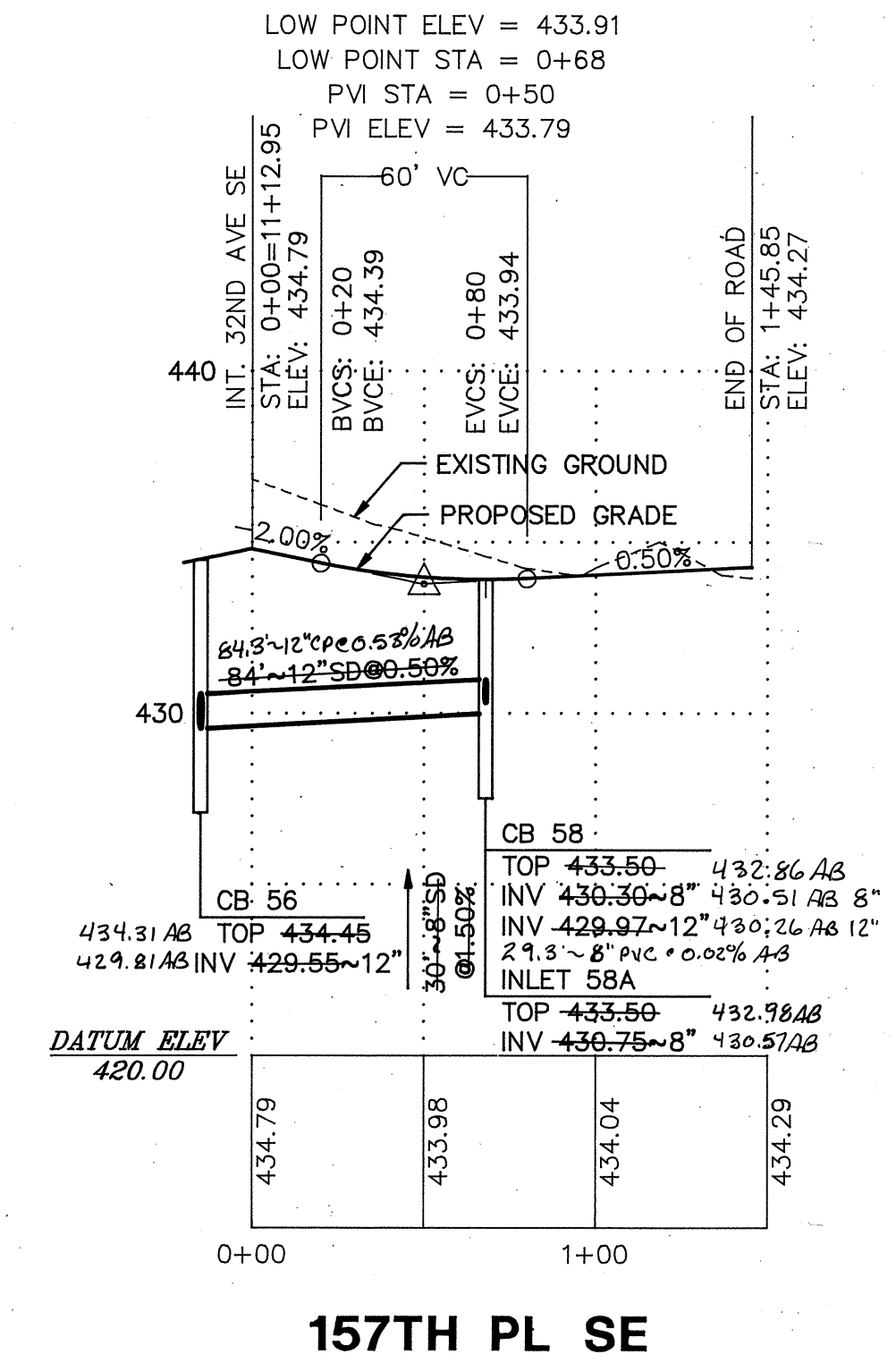
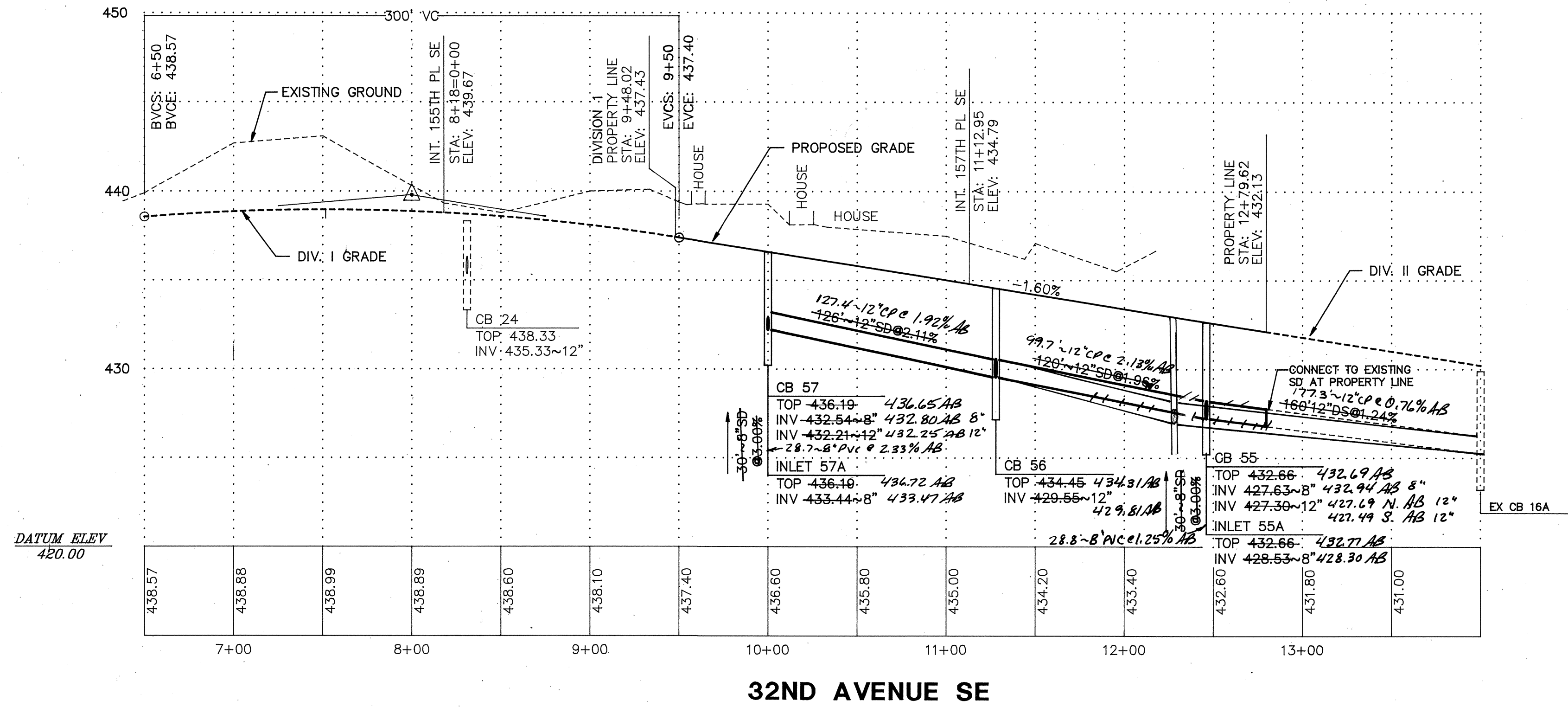
Designed MF _____
 Checked _____
 Drawn MF _____
 Checked _____
 As-built _____

Sheet 4 of 12

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.

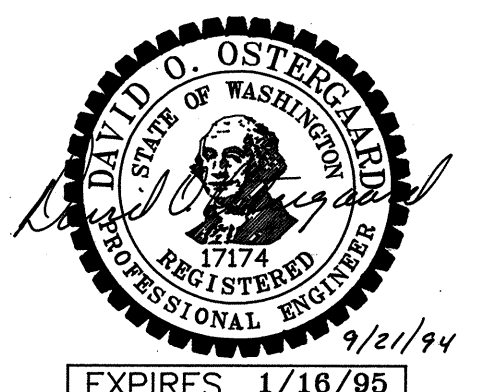
HIGH POINT ELEV = 438.99
 HIGH POINT STA = 7+51.65
 PVI STA = 8+00
 PVI ELEV = 439.80



DIV 5

SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'

DIVISION 5



APPROVED FOR CONSTRUCTION
 CITY OF MILL CREEK
 [Signature] 26 Sept 94
 CITY ENGINEER DATE

AS BUILT
 AS INDICATED BY "AB"

DATE	REVISION	BY
9/07/94	PER CITY	LDR
5/5/96	AS BUILT	MBC

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 3630 COLBY AVE.
 (206) 259-6445
 EVERETT, WA 98201
 BELLEVUE, (206) 827-5854

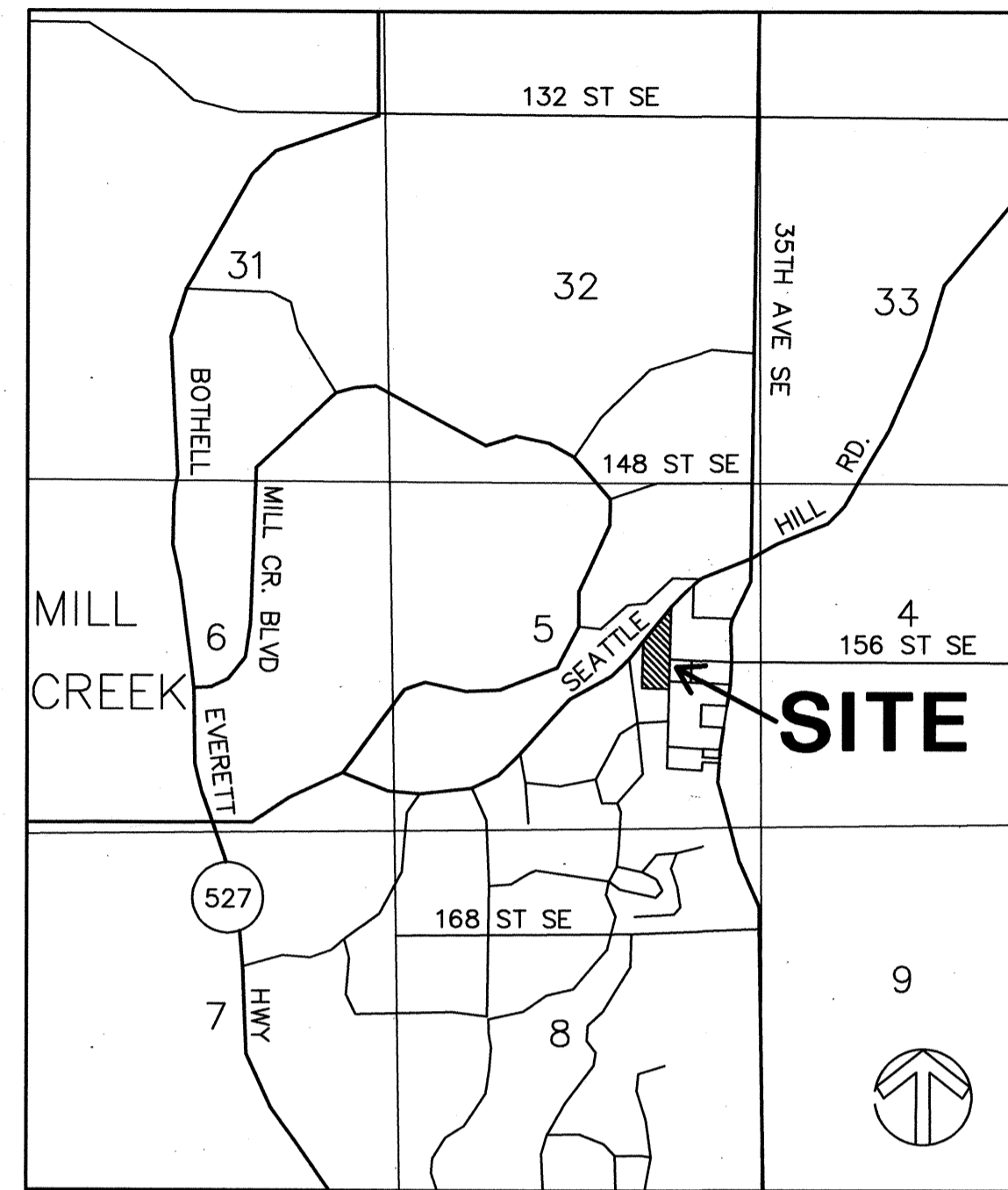
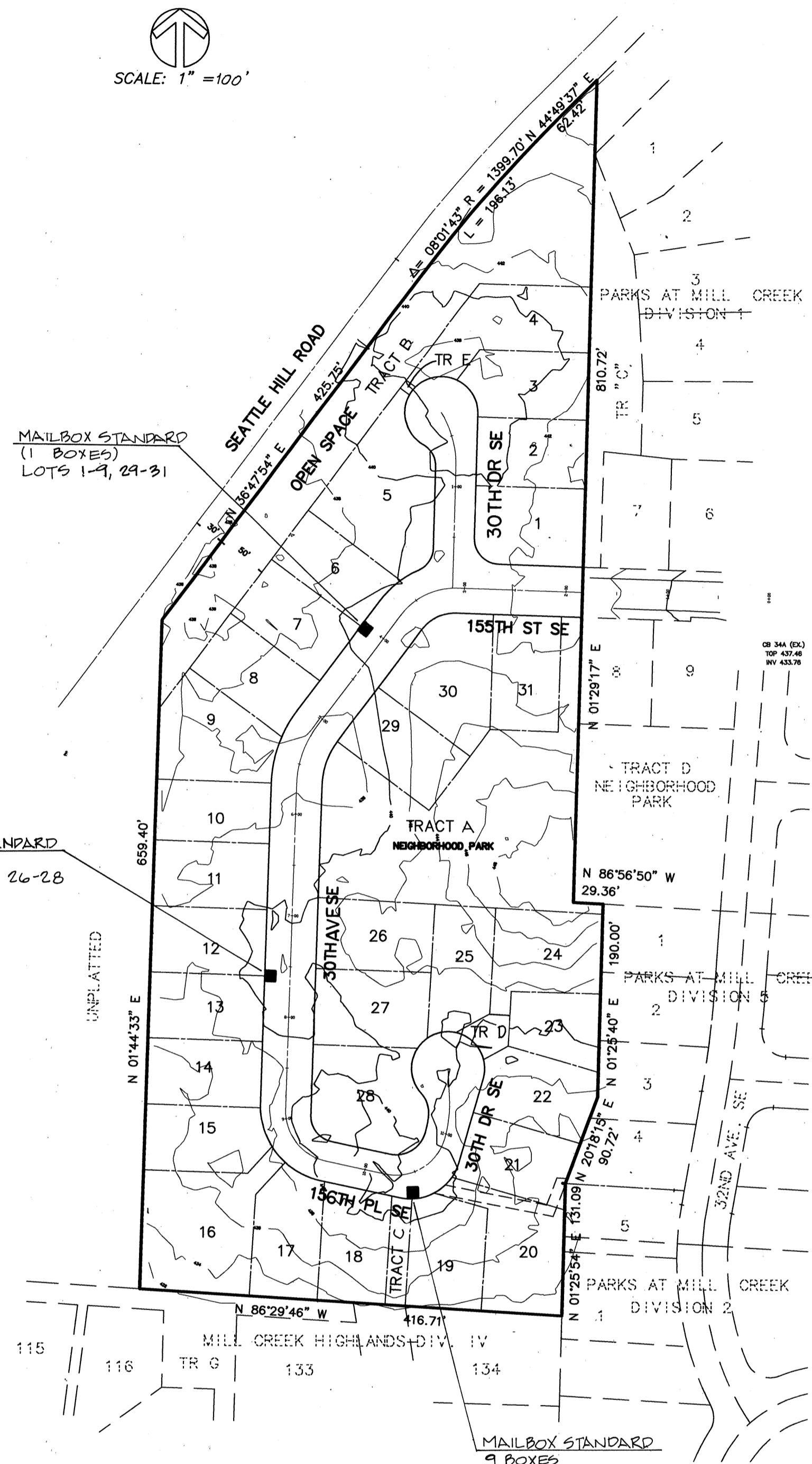
THE PARKS
 AT MILL CREEK
 ROAD + STORM DRAINAGE
 CITY OF MILL CREEK WASHINGTON

Designed ME
 Checked
 Drawn ME
 Checked
 As-built

Sheet 7 of 12

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



VICINITY MAP
SCALE: 1" = 2560'

THE PARKS AT MILL CREEK

LEGAL DESCRIPTION ADJUSTED PARCEL A

THAT PORTION OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER, THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER AND THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF SAID SOUTHEAST QUARTER;
 THENCE S 86°56'50" E, ALONG THE NORTH LINE OF SAID NORTHEAST QUARTER, FOR 29.36 FEET;
 THENCE S 1°25'54" W FOR 190.00 FEET;
 THENCE S 20°18'15" W FOR 90.72 FEET TO A POINT ON THE WEST LINE OF SAID NORTHEAST QUARTER;
 THENCE S 1°25'54" W, ALONG SAID WEST LINE, FOR 131.09 FEET;
 THENCE N 86°29'46" W FOR 416.71 FEET;
 THENCE N 1°44'33" E FOR 659.40 FEET TO A POINT ON THE SOUTH MARGIN OF SEATTLE HILL ROAD;
 THENCE N 36°47'54" E, ALONG SAID SOUTH MARGIN, FOR 425.75 FEET TO A POINT OF CURVATURE OF A 1399.70 FOOT RADIUS CURVE TO THE RIGHT;
 THENCE NORTHEASTERLY, ALONG SAID CURVE AND SOUTH MARGIN, FOR 196.13 WHILE CONSUMING A CENTRAL ANGLE OF 8°01'43";
 THENCE N 44°49'37" E, ALONG SAID SOUTH MARGIN, FOR 62.42 FEET TO THE EAST LINE OF SAID SOUTHWEST QUARTER;
 THENCE S 1°29'17" W, ALONG SAID EAST LINE, FOR 810.72 FEET TO THE POINT OF BEGINNING;

SUBJECT TO EASEMENTS, RESTRICTIONS AND RESERVATIONS OF RECORD;
 SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

OWNER/DEVELOPER:

COUNTRYWOOD HOMES, INC.
 14410 BEL-RED ROAD
 BELLEVUE, WASHINGTON 98007
 (206) 644-2321

ENGINEER:

OSTERGAARD-ROBINSON & ASSOCIATES, INC.
 3630 COLBY AVE
 EVERETT, WASHINGTON 98201
 (206) 259-6445

SURVEYOR:

OSTERGAARD-ROBINSON & ASSOCIATES, INC.
 3630 COLBY AVE
 EVERETT, WASHINGTON 98201
 (206) 259-6445

UTILITY DATA:

WATER: ALDERWOOD SEWER & WATER DISTRICT
 SEWER: ALDERWOOD SEWER & WATER DISTRICT
 SCHOOL: EVERETT SCHOOL DISTRICT
 FIRE: FIRE DISTRICT NO. 7
 POWER: SNOHOMISH COUNTY P.U.D.
 NATURAL GAS: WASHINGTON NATURAL GAS
 TELEPHONE: GENERAL TELEPHONE
 REFUSE: WASTE MANAGEMENT

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PLAN	2/6
PROFILE	3/6
NOTES & DETAILS	4/6
GRADING & TESCO:	
PLAN	5/6
NOTES & DETAILS	6/6

DIVISION 6

THE PARKS AT MILL CREEK
COVER SHEET
CITY OF MILL CREEK WASHINGTON

Designed LDR
 Checked LDR
 Drawn LDR
 Checked LDR
 As-built

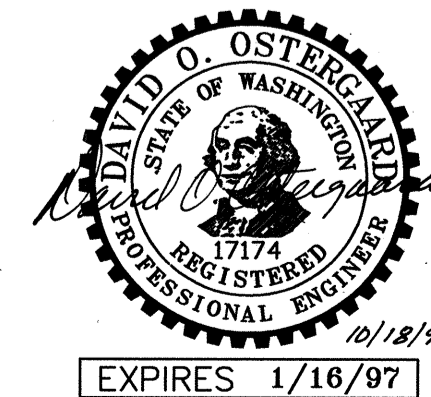
Sheet 1 of 6

Job No. 931-29

ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
William D. Jinn 11-7-96
 DIRECTOR OF COMMUNITY DEVELOPMENT DATE

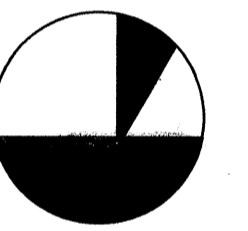
ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
Craig Stimpert 11/16/97
 CITY ENGINEER DATE

BOTHELL POST OFFICE
 10500 BEARDSLEE BLVD.
 BOTHELL, WA. 98011-9998
 ORIGINAL SIGNATURE ON FILE AT
 OSTERGAARD-ROBINSON & ASSOC.
 POSTMASTER APPROVAL DATE

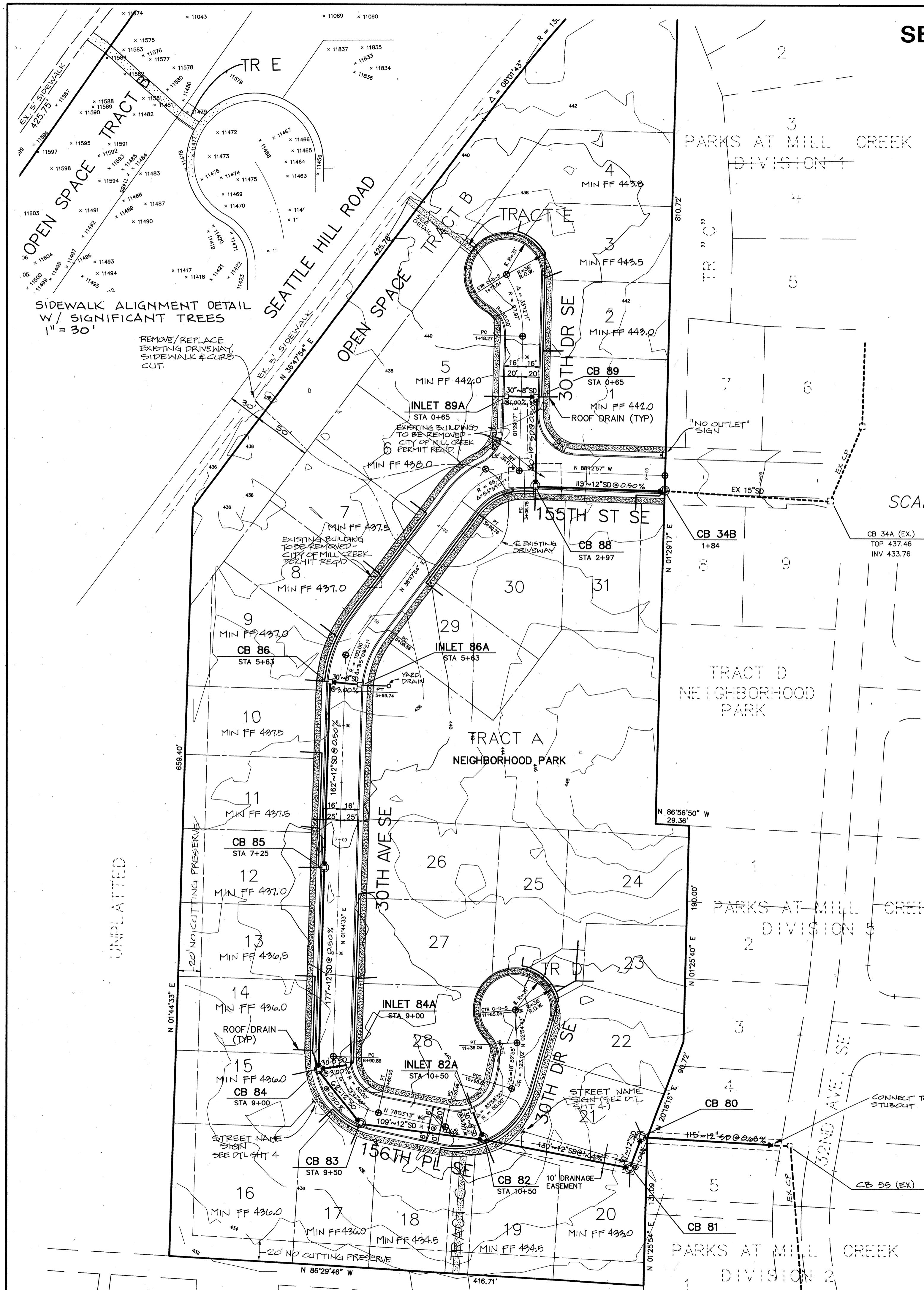


DATE	REVISION
4/8/96	PER CITY REVIEW
7/8/96	PER CITY REVIEW
10/29/96	PER CITY REVIEW
11/15/96	PER CITY REVIEW

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 EVERETT, WA 98201
 BELLEVUE: (206) 827-5854



SEC 5, TWP 27N, RGE 5E, W.M.



SIDEWALK ALIGNMENT DETAIL
W/ SIGNIFICANT TREES
1" = 30'

REMOVE/REPLACE
EXISTING DRIVEWAY,
SIDEWALK & CURB
CUT.

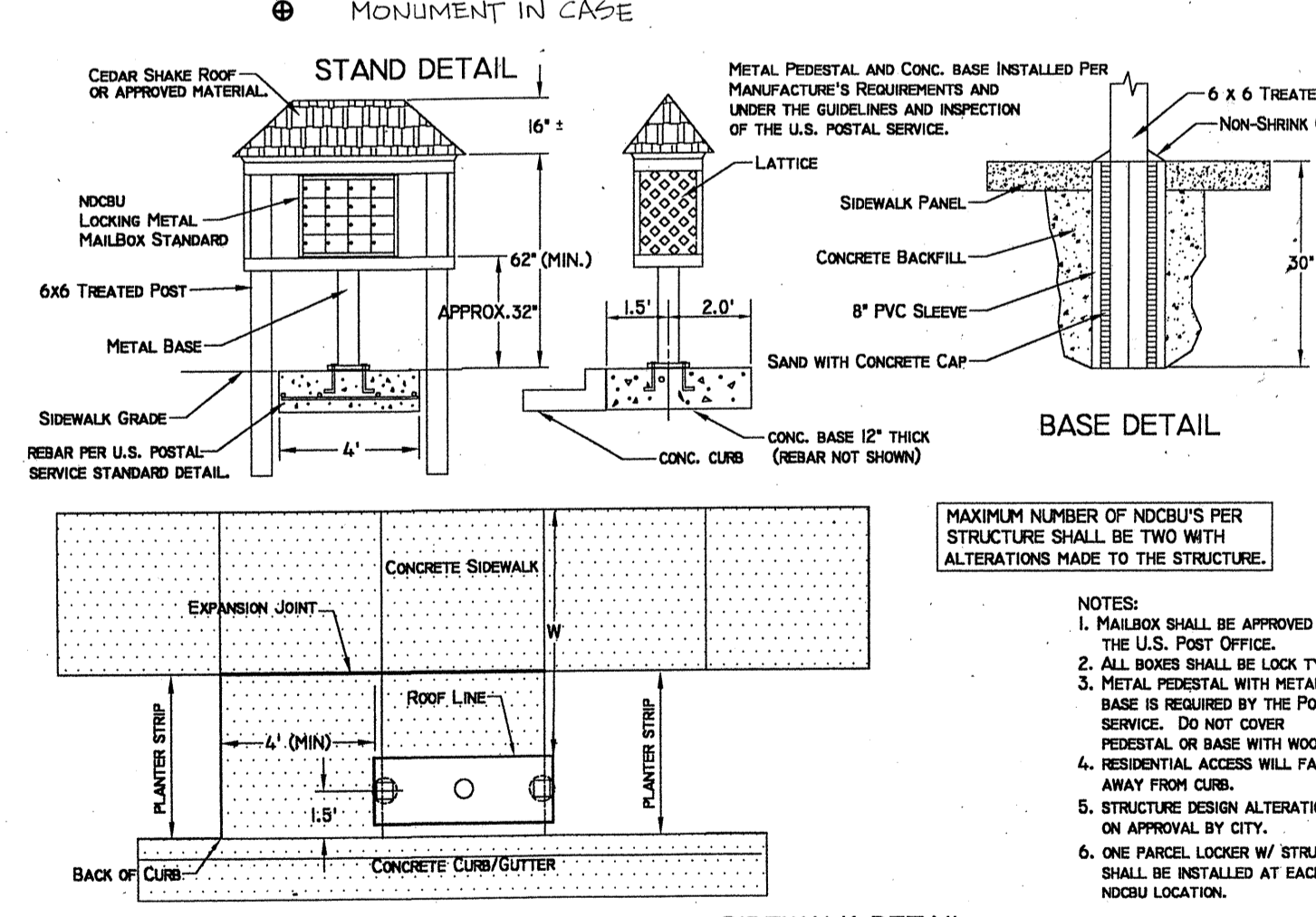
STORM DRAIN TABLE						
STRUCTURE	STA	OFFSET	TOP	INVERT	PIPE	NOTES
CB 34B	1+84	15' LT	442.54	437.05	12" 15"	
CB 80			434.30	428.55		
CB 81			435.00	428.86		
CB 82	10+50	15' LT	437.67	433.71	8" 12"	THRU CURB GRATE
INLET 82A	10+50	15' RT	437.67	435.00		THRU CURB GRATE
CB 83	9+50	15' RT	438.42	431.37		
CB 84	9+00	15' RT	438.92	435.10	8" 12"	
INLET 84A	9+00	15' LT	438.92	436.00		
CB 85	7+25	15' RT	440.06	432.56		
CB 86	5+63	15' RT	437.64	433.70	8" 12"	THRU CURB GRATE
INLET 86A	5+63	15' LT	437.64	434.60		THRU CURB GRATE
CB 88	2+97	15' LT	443.02	437.61		
CB 89	0+65	15' RT	442.04	438.34	8" 12"	THRU CURB GRATE
INLET 89A	0+65	15' LT	442.04	438.31		THRU CURB GRATE

SCALE: 1" = 50'

VERTICAL DATUM:
N.A.V.D. 29

BENCHMARK:
RR SPIKE AT BASE OF P.P. LOCATED AT
NW CORNER SEATTLE HILL ROAD & 35TH AVE SE
ELEV = 419.82

- LEGEND**
- PROPOSED TYPE I CATCH BASIN OR INLET AS SPECIFIED
 - ⊙ PROPOSED CATCH BASIN (TYPE II)
 - ◻ EXISTING CATCH BASIN OR INLET (AS SPECIFIED)
 - PROPOSED STORM DRAIN (SEE STORM DRAIN-NOTE ON SHEET 4 FOR ALLOWABLE MATERIALS)
 - - - EXISTING STORM DRAIN
 - FLOWLINE
 - SIDEWALK
 - SD STORM DRAIN
 - FF FINISHED FLOOR
 - ||||| THERMOPLASTIC CROSSWALK
 - ⊕ MONUMENT IN CASE



TYPICAL MAILBOX STAND

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK

William J. Jirvin 11-7-96
DIRECTOR OF COMMUNITY DEVELOPMENT DATE

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK

David O. Ostergaard 11/6/96
CITY ENGINEER DATE

DATE	4/8/96
REVISION	PER CITY REVIEW
	7/8/96 PER CITY REVIEW
	10/21/96 PER CITY REVIEW
	11/15/96

OSTERGAARD & ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE.
BELLEVUE, WA 98001
(206) 259-6445

ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
EVERETT, WA 98201
BELLEVUE: (206) 827-5854

WASHINGTON

THE PARKS AT MILL CREEK ROAD + STORM DRAINAGE PLAN

CITY OF MILL CREEK

Designed LDR
Checked

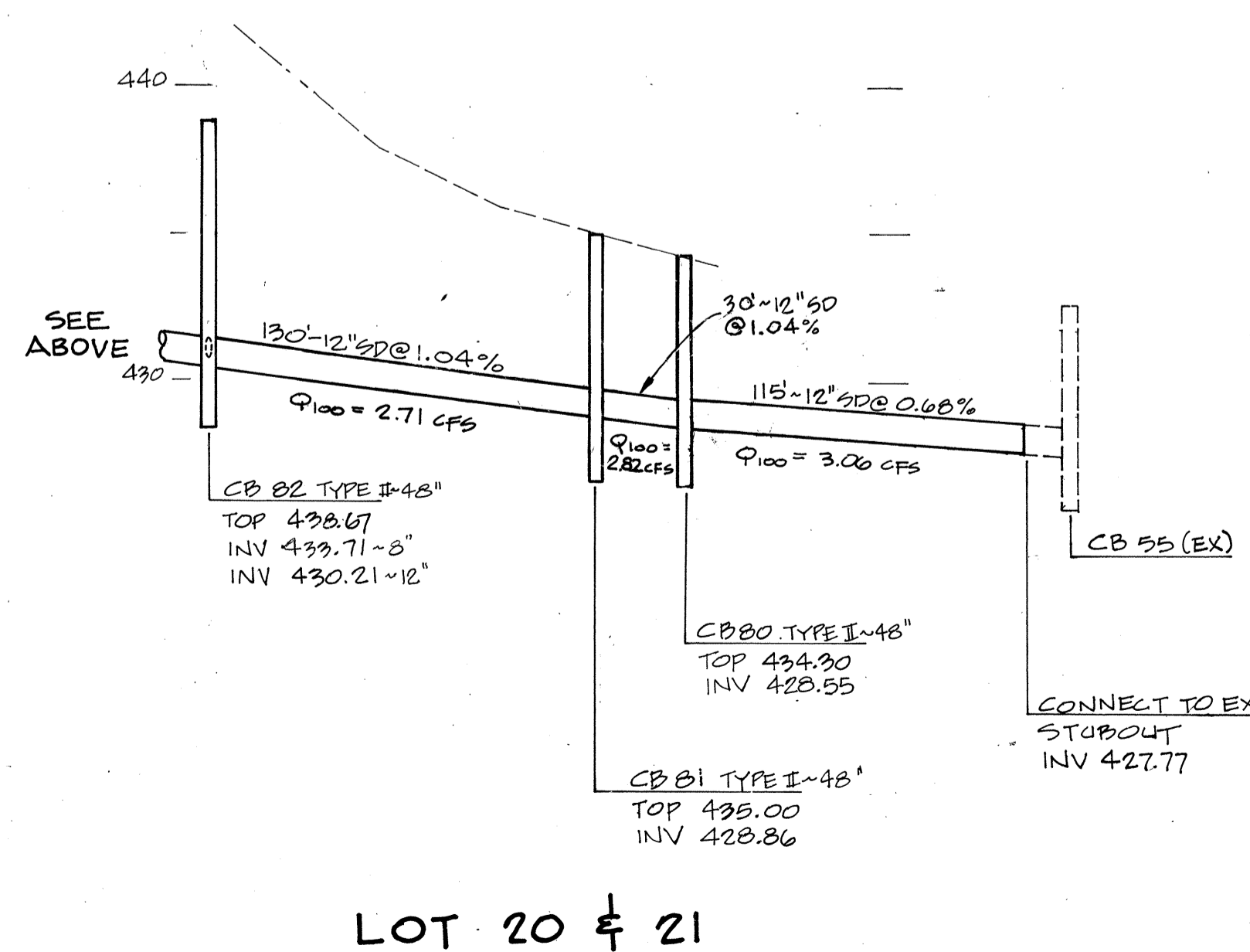
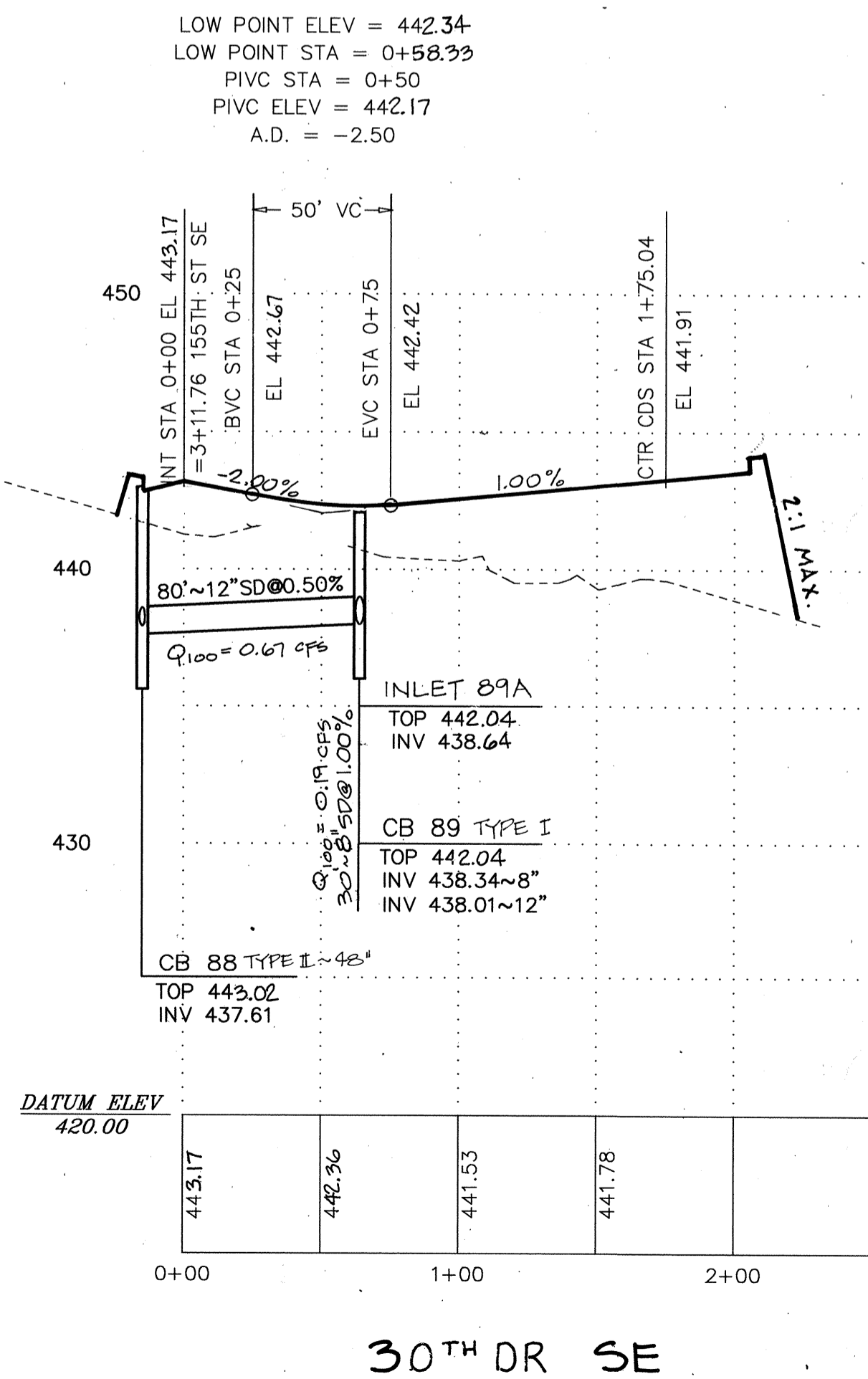
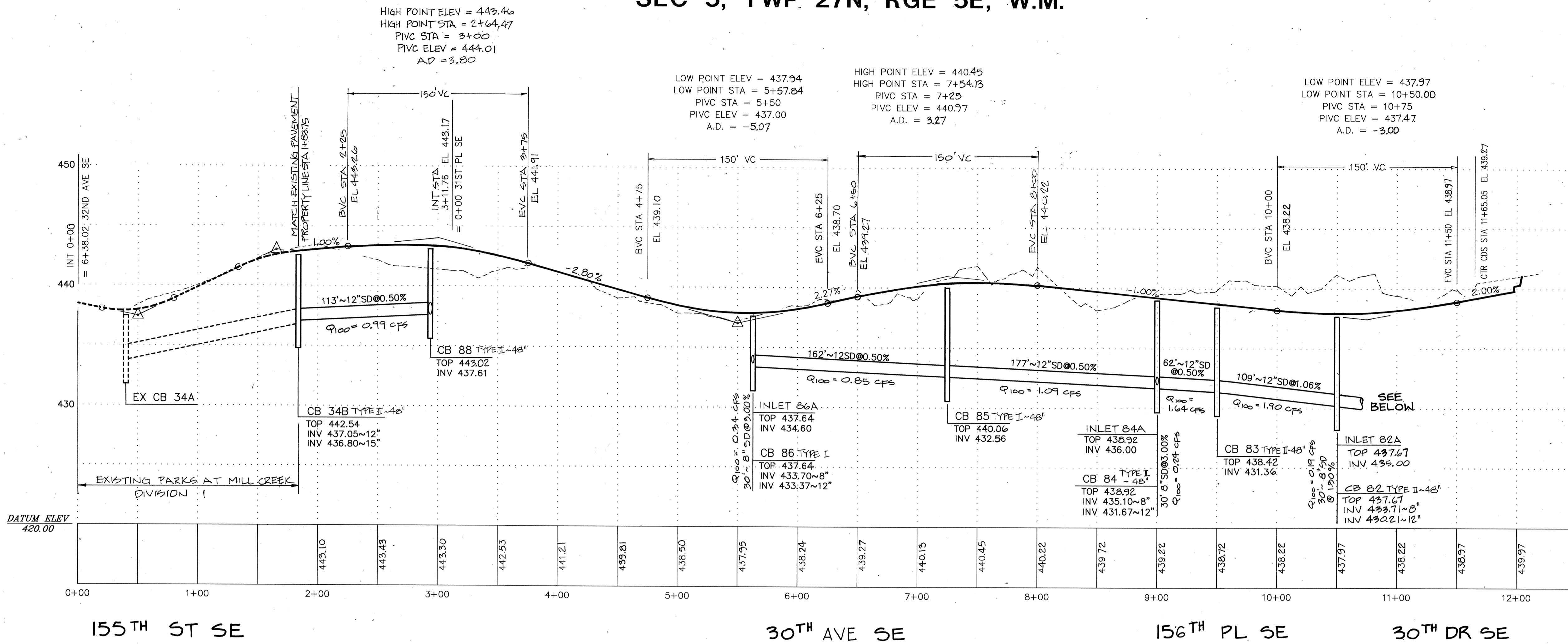
Drawn LDR
Checked

As-built

Sheet 2 of 6

Job No. 93129

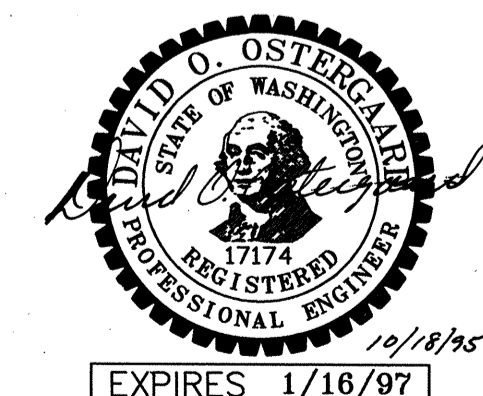
SEC 5, TWP 27N, RGE 5E, W.M.



SCALE:
 HORIZ 1"=50'
 VERT 1"=5'

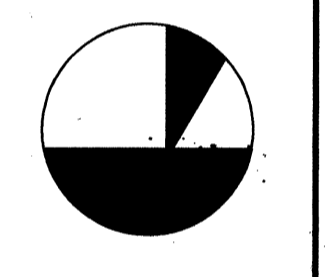
ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 William J. [Signature]
 DIRECTOR OF COMMUNITY DEVELOPMENT DATE 11-2-96

ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 Craig [Signature]
 CITY ENGINEER DATE 11-6-96



DATE	4/8/96
BY	LDR
REVISION	PER CITY REVIEW
	7/8/96
	PER CITY REVIEW
	11/5/96

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 3630 COLBY AVE.
 (206) 259-6445
 BELLEVUE, WA 98001
 EVERETT, WA 98201
 BELLEVUE: (206) 827-5854



THE PARKS AT MILL CREEK ROAD + STORM DRAINAGE PROFILE
 CITY OF MILL CREEK WASHINGTON

Designed LDR
 Checked
 Drawn LDR
 Checked
 As-built

Sheet 3 of 6

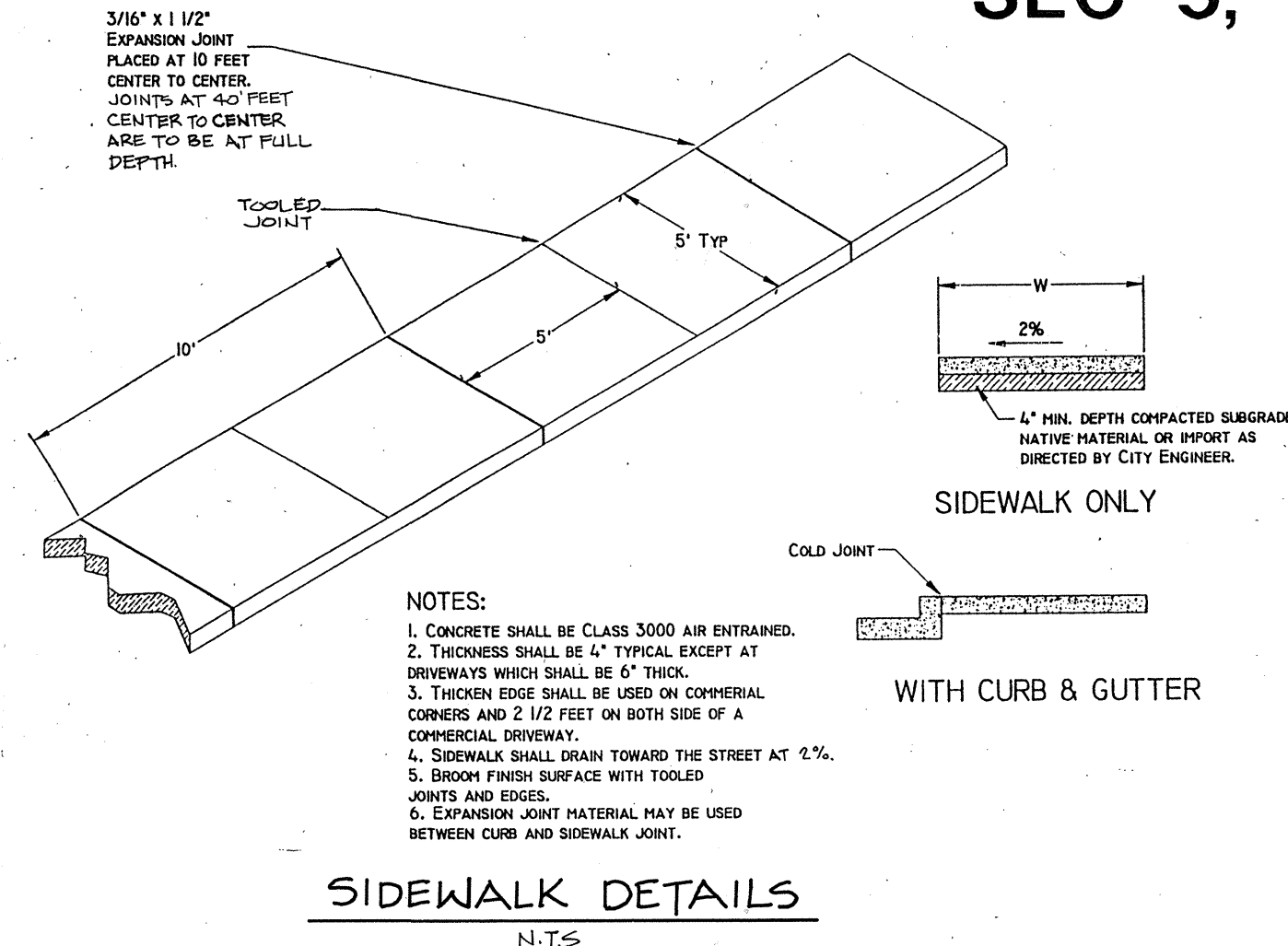
Job No. 93129

DIVISION 6

SEC 5, TWP 27N, RGE 5E, W.M.

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AND THE CITY OF MILL CREEK STAFF AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14)C COMPACTING EARTH EMBANKMENTS METHOD B.
- DISTURBED SOIL SHALL BE GRASS SEEDING IF NOT WORKED WITHIN 30 DAYS.



CEMENT CONCRETE ROLLED CURB AND GUTTER

- NOTES:
- CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
 - ALL CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 3000.
 - FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
 - FULL DEPTH EXPANSION JOINTS CONSISTING OF 3/8 INCH MINIMUM PREMOLDED JOINT MATERIAL SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 20 FEET.
 - CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
 - ALL JOINTS SHALL BE CLEAN AND EDGES.
 - FINISH SHALL BE LIGHT BROOM FINISH.
 - FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.

STORM DRAINAGE NOTES

- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
- THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6", MAXIMUM DEPTH 8", THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO SPECIFICATION 2-03.3(14)C, METHOD b & c.
- ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
- ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
- ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
- CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435, 5435A, MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. ALL SHALL BE VANE GRATE EXCEPT AT THRU CURB WHICH SHALL BE HERRINGBONE.
- PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND OR BEHIND SIDEWALK DRAINS AS REQUIRED. STUB OUTS SHALL BE MARKED WITH A 2" X 4" AND LABELED "STORM."
- STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
- PIPE SPECIFICATIONS: PIPE MATERIAL, JOINTS AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9.05 AND AASHTO AND ASTM DESIGNATIONS AS NOTED BELOW.

MATERIALS ALLOWED FOR STORM DRAIN LINES:

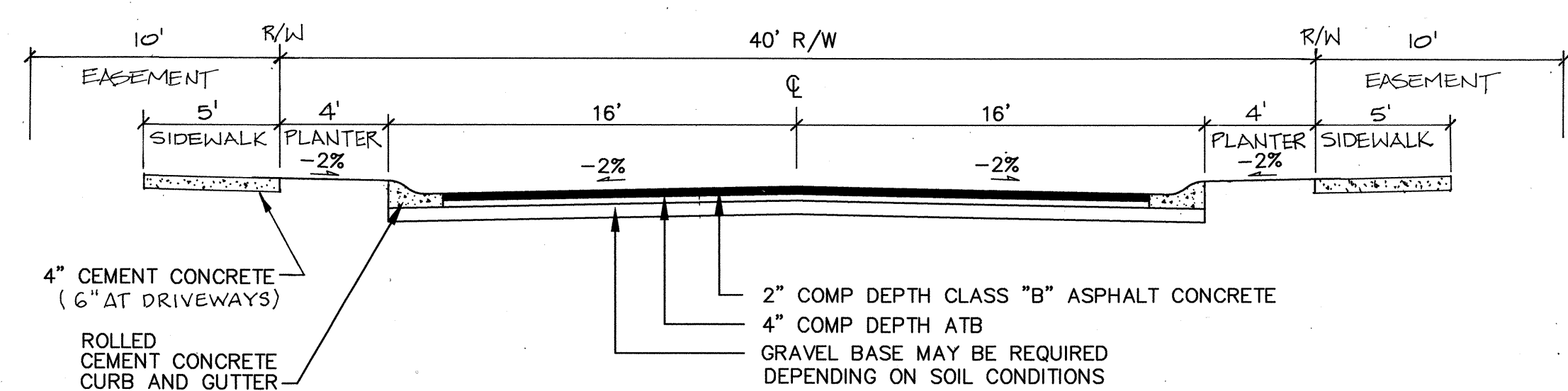
- PLAIN CONCRETE PIPE
- REINFORCED CONCRETE PIPE
- ALUMINUM SPIRAL RIB PIPE
- PVC - 3034

ALLOWABLE JOINTS:

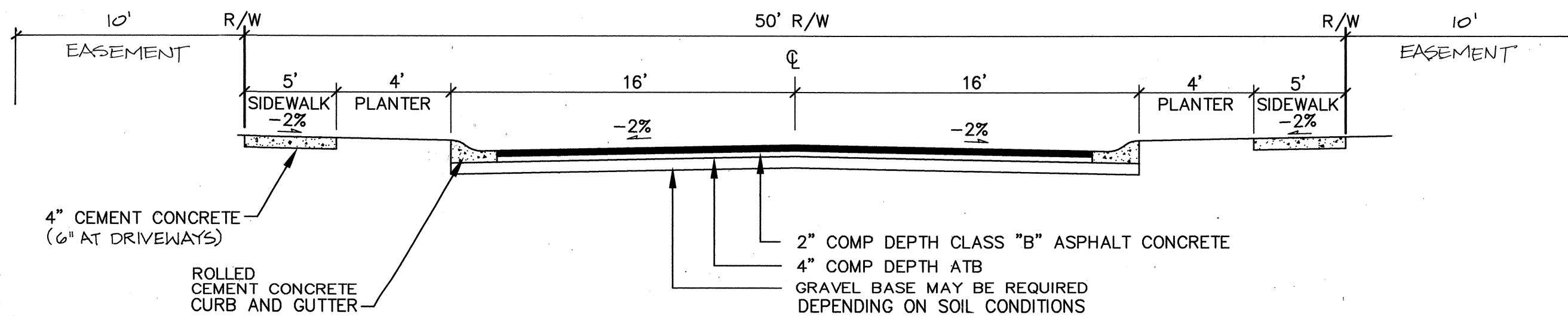
- CONCRETE PIPE SHALL BE RUBBER GASKETED
- SPIRAL RIB PIPE SHALL BE "HAT BANDED" WITH NEOPRENE GASKETS

CONSTRUCTION SEQUENCE

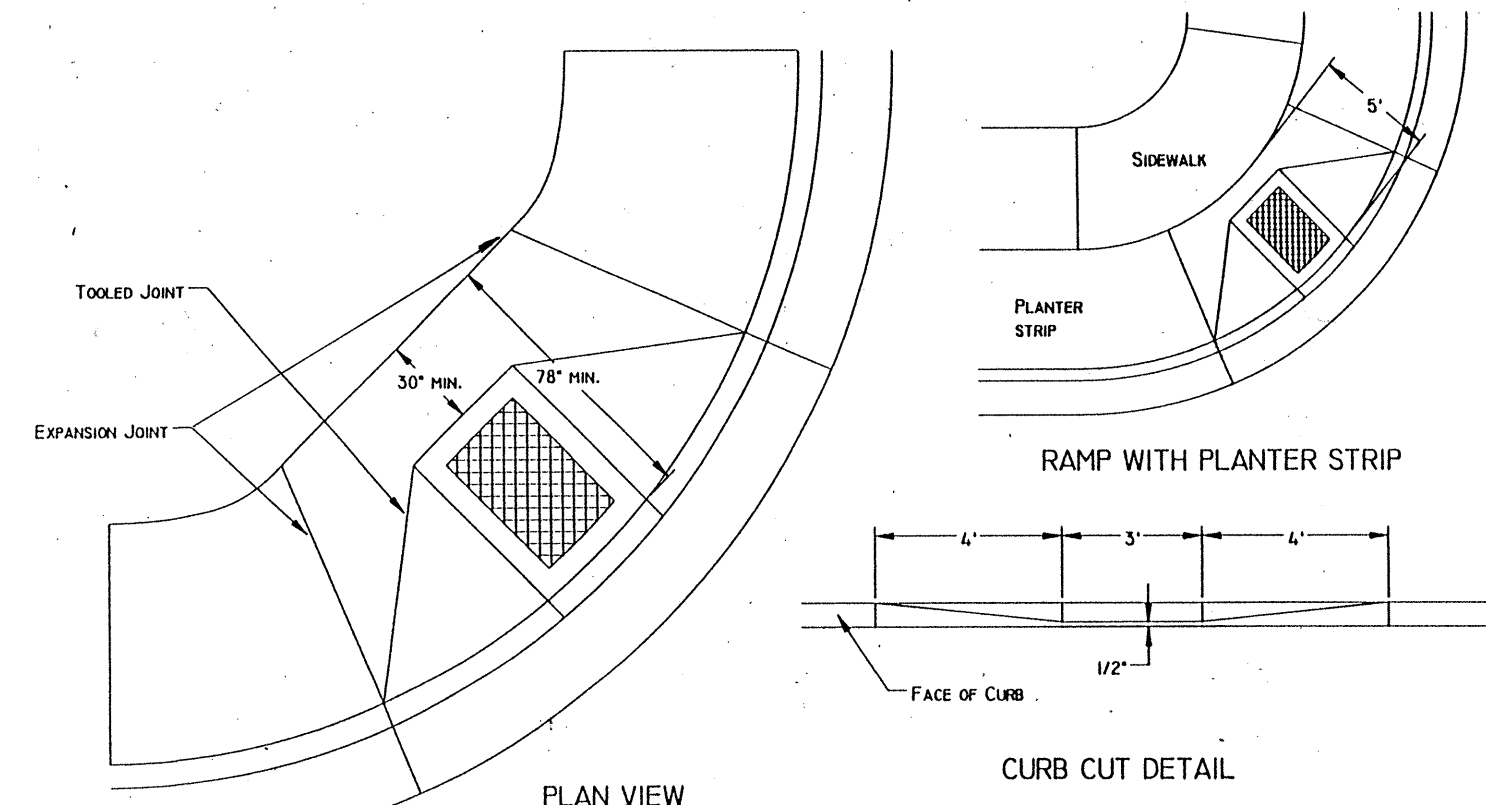
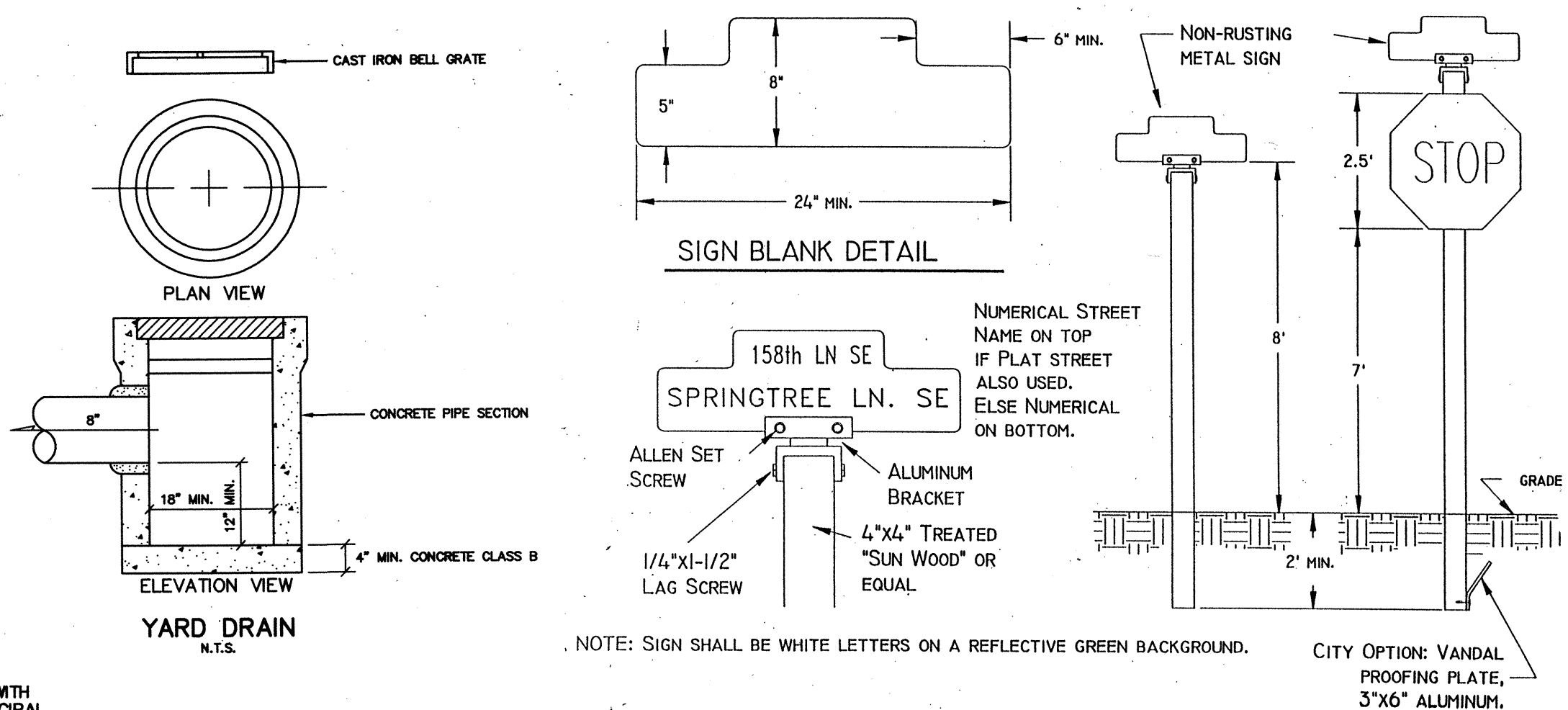
- ATTEND PRE-CONSTRUCTION MEETING (INCLUDING EXCAVATION CONTRACTOR).
- INSTALL SILT FENCES AND BARRIER FENCES WHERE SPECIFIED.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE.
- FLAG CLEARING LIMITS. CALL CITY FOR INSPECTION AND APPROVAL.
- CLEAR FOR AND INSTALL SEDIMENT TRAPS, INTERCEPT DITCHES AND CHECK DAMS.
- CLEAR AND GRADE ONSITE AREAS AS INDICATED.
- CONSTRUCT PERMANENT STORM DRAINAGE SYSTEM AND UTILITIES AND PROVIDE C.B. PROTECTION.
- FINAL GRADE/PAVEMENT.
- HYDROSEED AND MULCH ALL EXPOSED AREAS.
- FLUSH STORM DRAINAGE SYSTEM.
- MAINTAIN TEMPORARY FACILITIES THROUGH THE COURSE ON CONSTRUCTION UNTIL SITE IS STABILIZED AND POTENTIAL FOR EROSION HAS PASSED.



TYPICAL 40' ROAD SECTION - ONSITE (31ST PL SE, 30TH DR SE & 157TH PL SE) N.T.S.



TYPICAL 50' ROAD SECTION - ONSITE (155TH ST SE & 30TH ST SE) N.T.S.



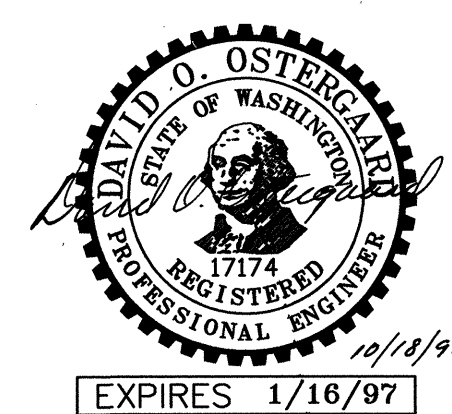
NOTES:

- TEXTURE PATTERN SHALL NOT EXCEED 1/2 INCH SPACING AT 1/16" DEPTH.
- ADVANCE WARNING SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER.
- ALL SURFACES TO BE BROOMED FINISHED WITH TOOLED JOINTS AND EDGES.
- CURB SHALL BE POURED SEPARATELY FROM RAMP POUR. MONOLITHIC POUR (CURB & RAMP) IS NOT ALLOWED.
- RAMP AT CURB SHALL BE 1/2" ABOVE GUTTER FLOW LINE.

ACCESS RAMP

N.T.S.

DIVISION 6



ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 William J. Minin
 DIRECTOR OF COMMUNITY DEVELOPMENT DATE

ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 Craig Stephens 11/6/96
 CITY ENGINEER DATE

BY	DR	DR	DR	DR	DR
REVISION					
DATE	4/8/96	7/10/96	10/24/96	11/15/96	
	PER CITY REVIEW	PER CITY REVIEW	PER CITY REVIEW		

OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
 3630 COLBY AVE. EVERETT, WA 98201
 (206) 259-6445 BELLEVUE: (206) 827-5854

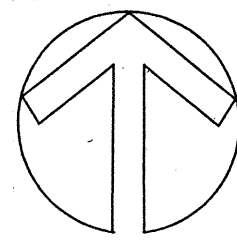
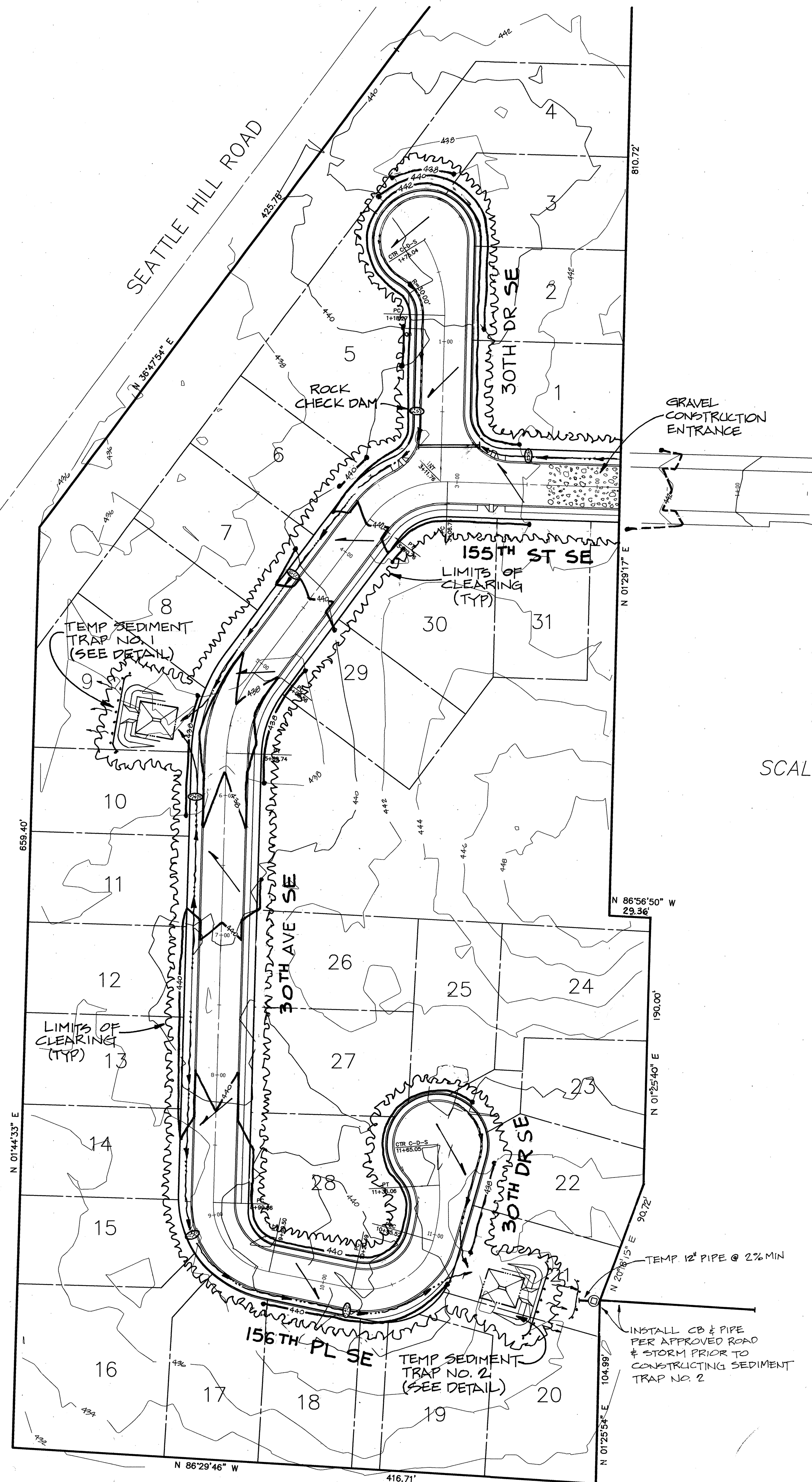
THE PARKS AT MILL CREEK
 ROAD + STORM DETAILS + NOTES
 CITY OF MILL CREEK WASHINGTON

Designed LDR
 Checked
 Drawn LDR
 Checked
 As-built

Sheet 4 of 6

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



SCALE: 1" = 50'

NOTES:

1. ALL TEMPORARY PONDS TO BE FIELD LOCATED WITH APPROVAL OF CITY.
2. CLEARING LIMITS TO BE FENCED PRIOR TO ANY COMMENCEMENT OF WORK.

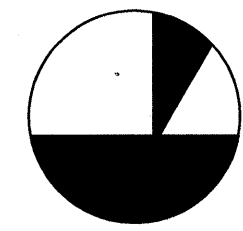


ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
William D. Amin 1-7-96
DIRECTOR OF COMMUNITY DEVELOPMENT DATE

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
Ray Stamps 1/6/96
CITY ENGINEER DATE

DATE	REVISION	BY
4/8/96	PER CITY REVIEW	IKR
7/8/96	PER CITY REVIEW	IKR
10/8/96	PER CITY REVIEW	IKR
11/15/96	"	KLR

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1
(206) 259-6445
EVERETT, WA 98201
BELLEVUE: (206) 827-5854



DIVISION 6

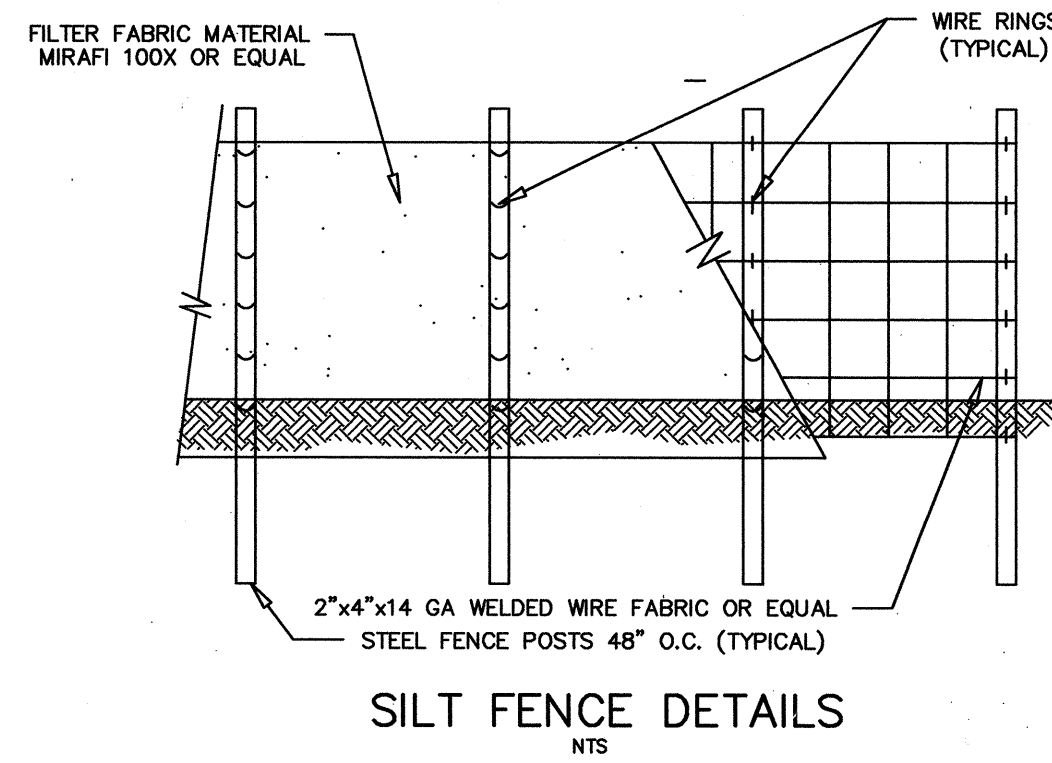
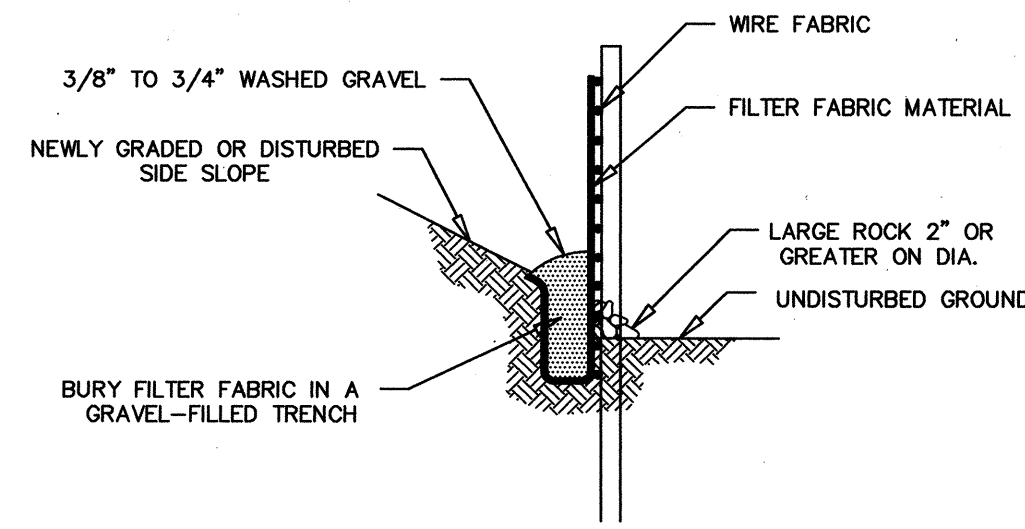
THE PARKS AT MILL CREEK
GRADING + TESCOP PLAN
CITY OF MILL CREEK WASHINGTON

Designed ME _____
Checked _____
Drawn ME _____
Checked _____
As-built _____

Sheet 5 of 6

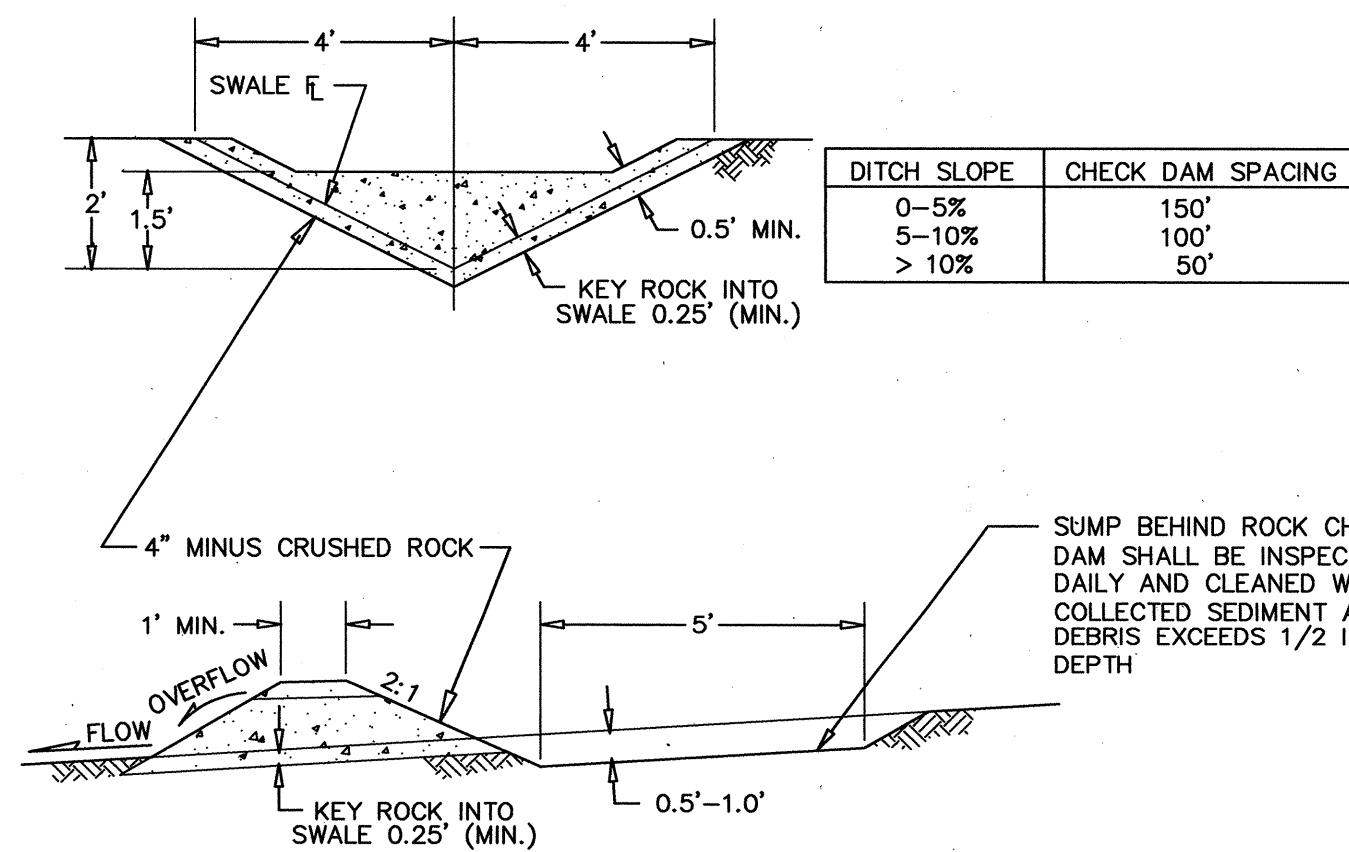
Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



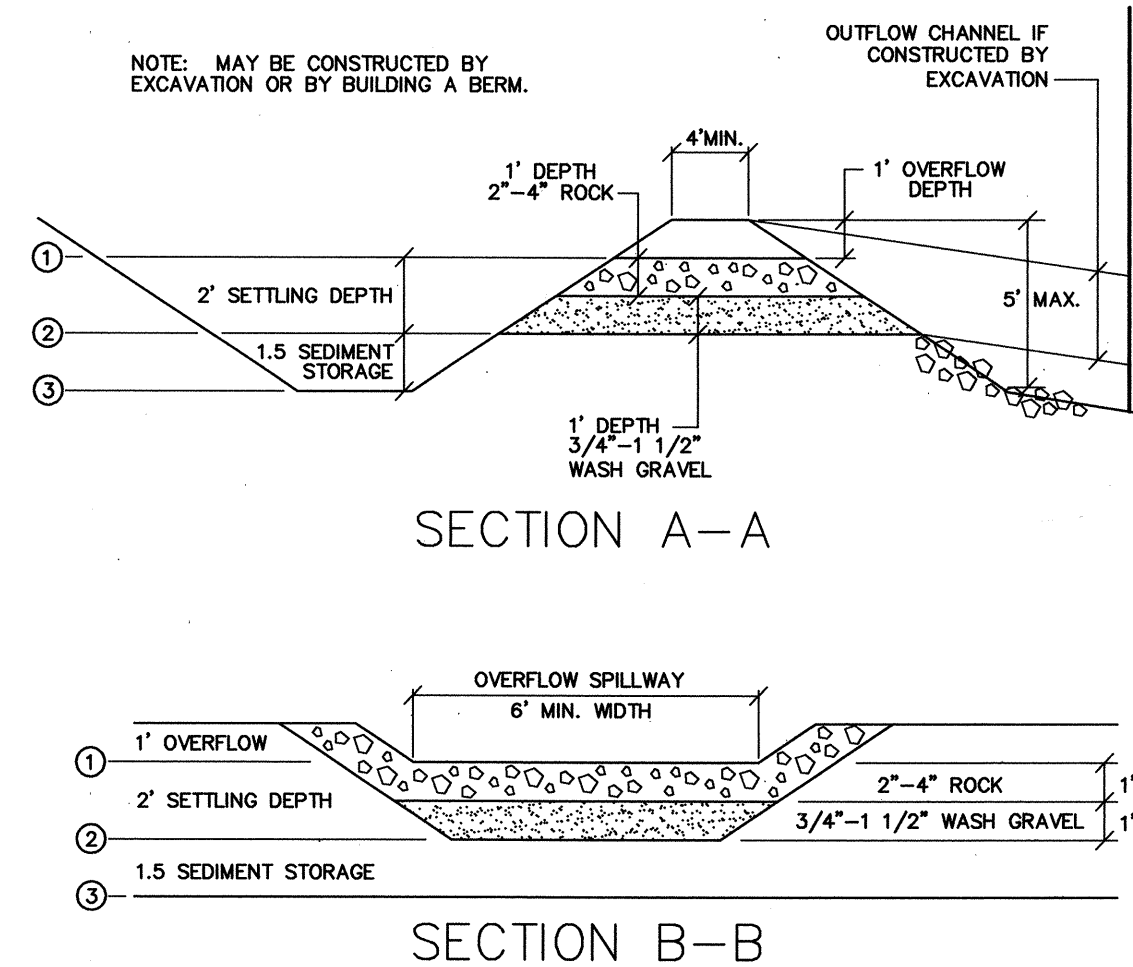
MAINTENANCE OF SILTATION BARRIERS

- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERROUTING BENEATH BALES. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



ROCK CHECK DAM DETAILS

DITCH SLOPE	CHECK DAM SPACING
0-5%	150'
5-10%	100'
> 10%	50'



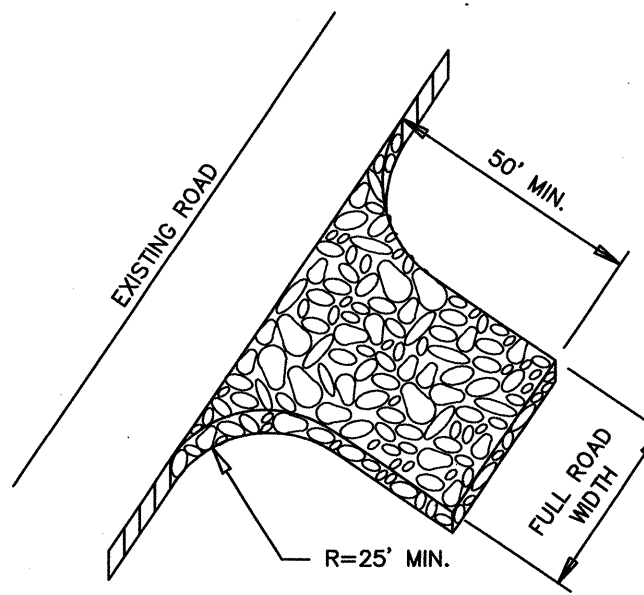
TEMPORARY SEDIMENT TRAP - MINIMUM DIMENSIONS			
T.S.T.#	1	2	3
ALL PONDS	23 X 27	11 X 15	2 X 6

SEE HYDRAULIC CALCULATIONS FOR T.S.T. CALCULATIONS

GRAVEL CONSTRUCTION ENTRANCE

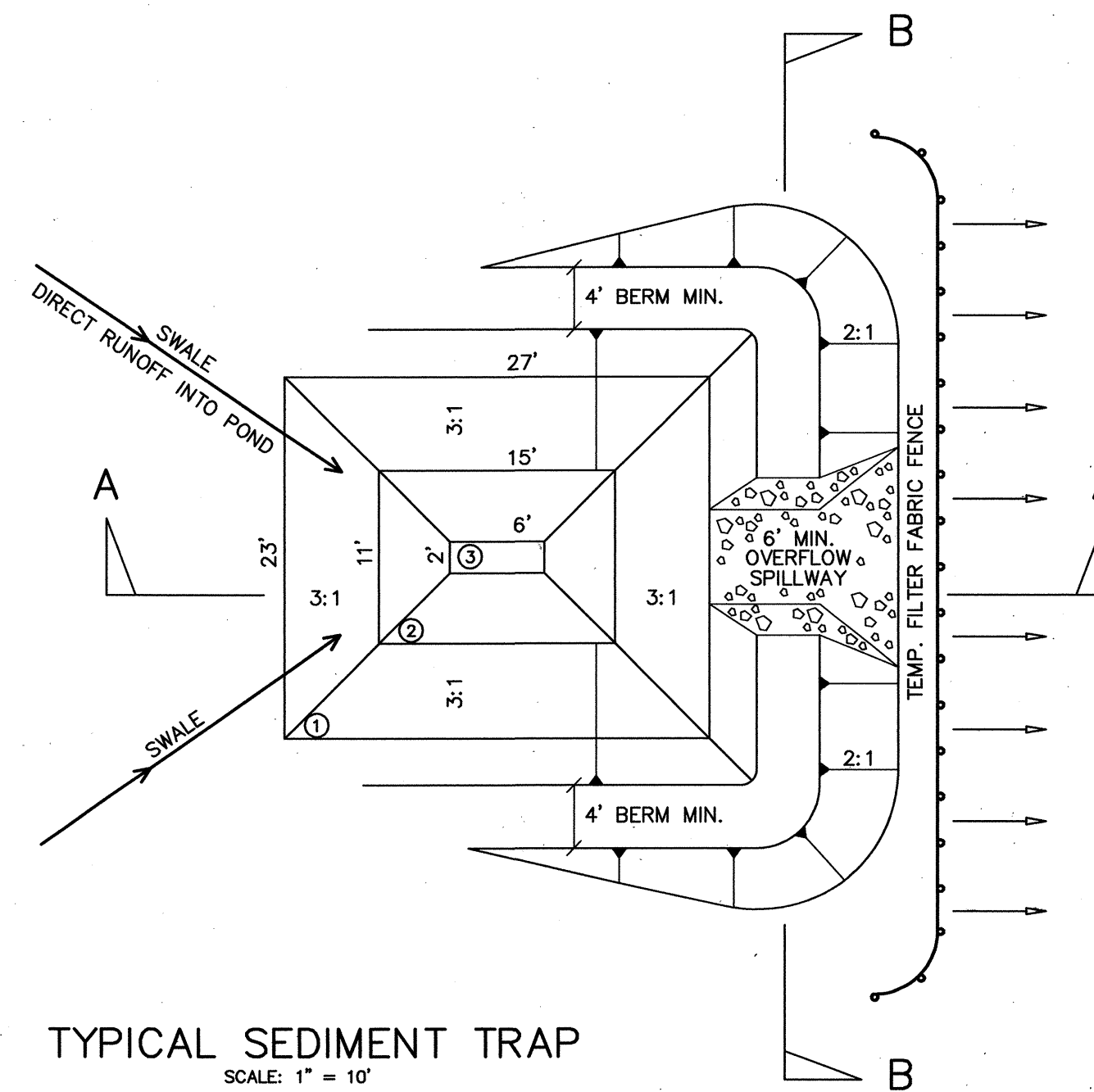
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

- INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK
- ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
- WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD TO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

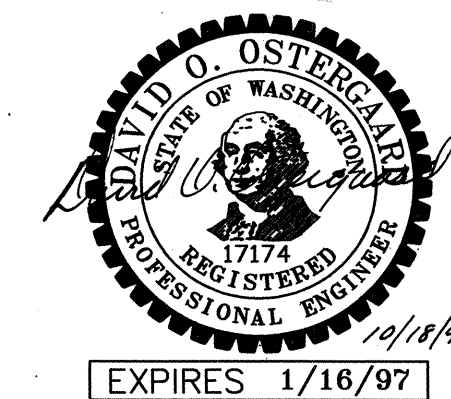


SITE GRADING AND T.E.S.C.P. NOTES

- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS. PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT SHALL BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOILS MECHANICS.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEED PREFERRED.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
- ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY THE CITY OF MILL CREEK.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING:
20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS
40% CREEPING RED FESCUE
40% WHITE CLOVER
HYDROSEED REQUIRED.
- FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.



TYPICAL SEDIMENT TRAP
SCALE: 1" = 10'



ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
William J. Minner
DIRECTOR OF COMMUNITY DEVELOPMENT DATE 11-7-96

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
Greg Stampler
CITY ENGINEER DATE 11/16/96

DIVISION 6

THE PARKS
AT MILL CREEK
GRADING + T.E.S.C.P.
DETAILS + NOTES
CITY OF MILL CREEK WASHINGTON

Designed LDR
Checked
Drawn LDR
Checked
As-built

Sheet 6 of 6

Job No. 93129

BY	IPR IDC
REVISION	PER CITY REVIEW PER CITY REVIEW
DATE	4/8/96 7/8/96

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE.
(206) 259-6445
EVERETT, WA 98201
BELLEVUE: (206) 827-5854

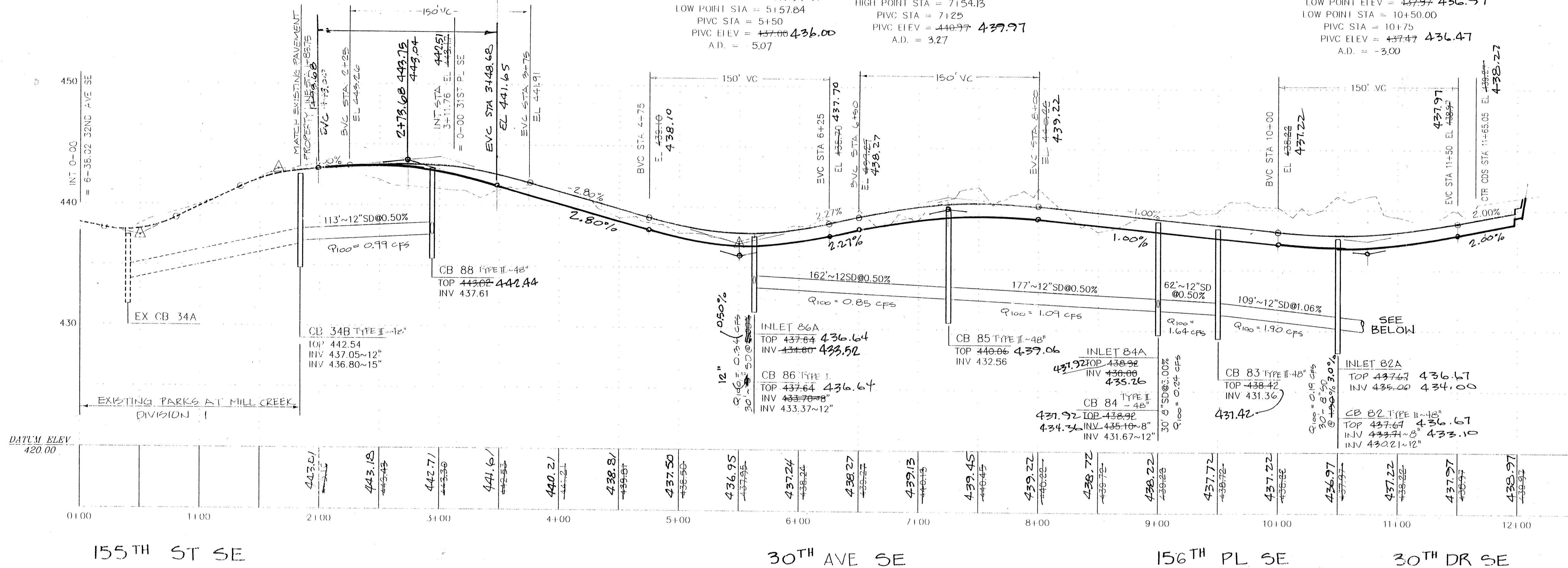
SEC 5, TWP 27N, RGE 5E, W.M.

HIGH POINT ELEV = 443.20
 HIGH POINT STA = 2164.7 2138.15
 PVC STA = 3100
 PIVC ELEV = 443.15
 A.D. = 3.80

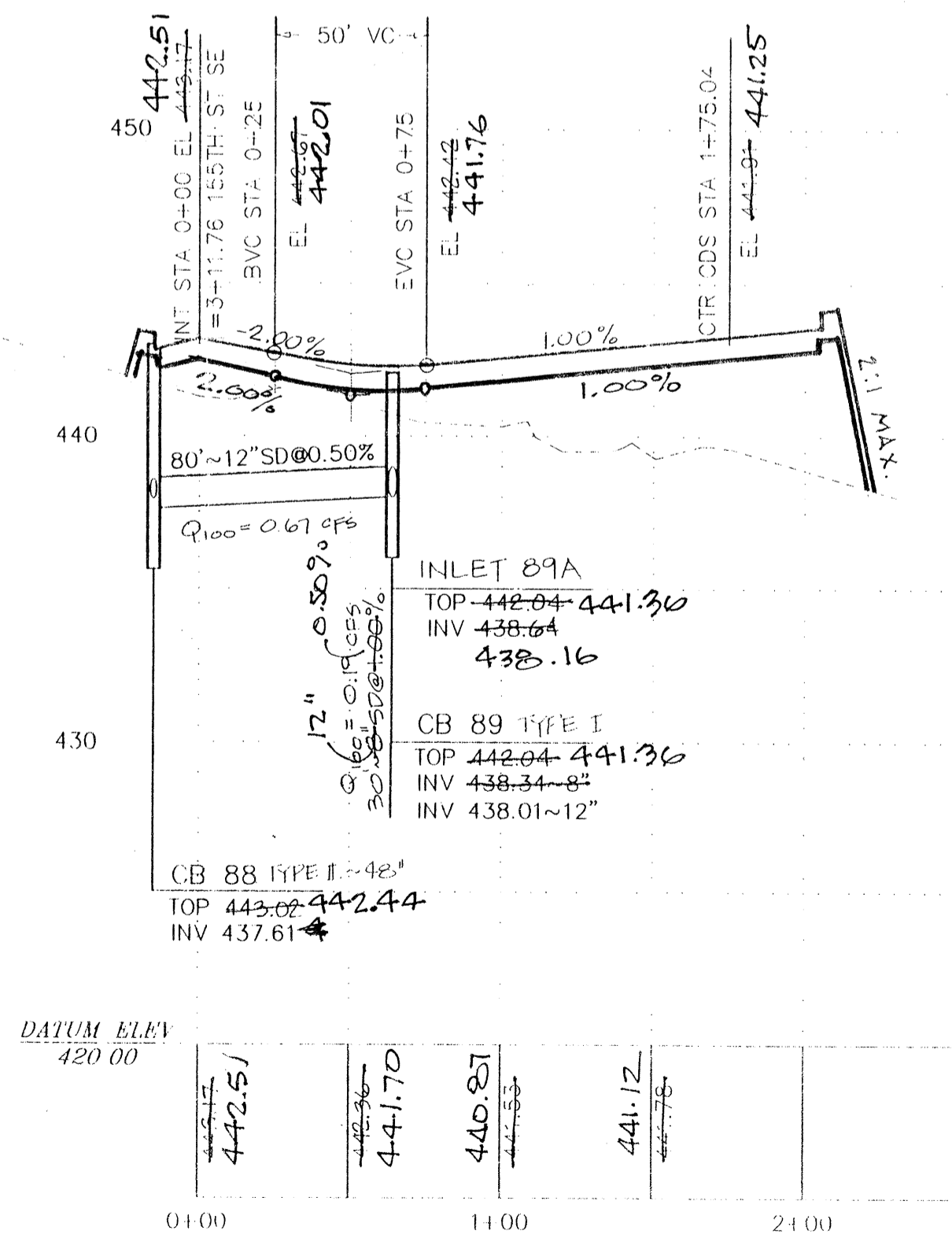
LOW POINT ELEV = 436.94
 LOW POINT STA = 5157.84
 PVC STA = 5150
 PIVC ELEV = 436.00
 A.D. = 5.07

HIGH POINT ELEV = 439.45
 HIGH POINT STA = 7154.13
 PVC STA = 7125
 PIVC ELEV = 439.97
 A.D. = 3.27

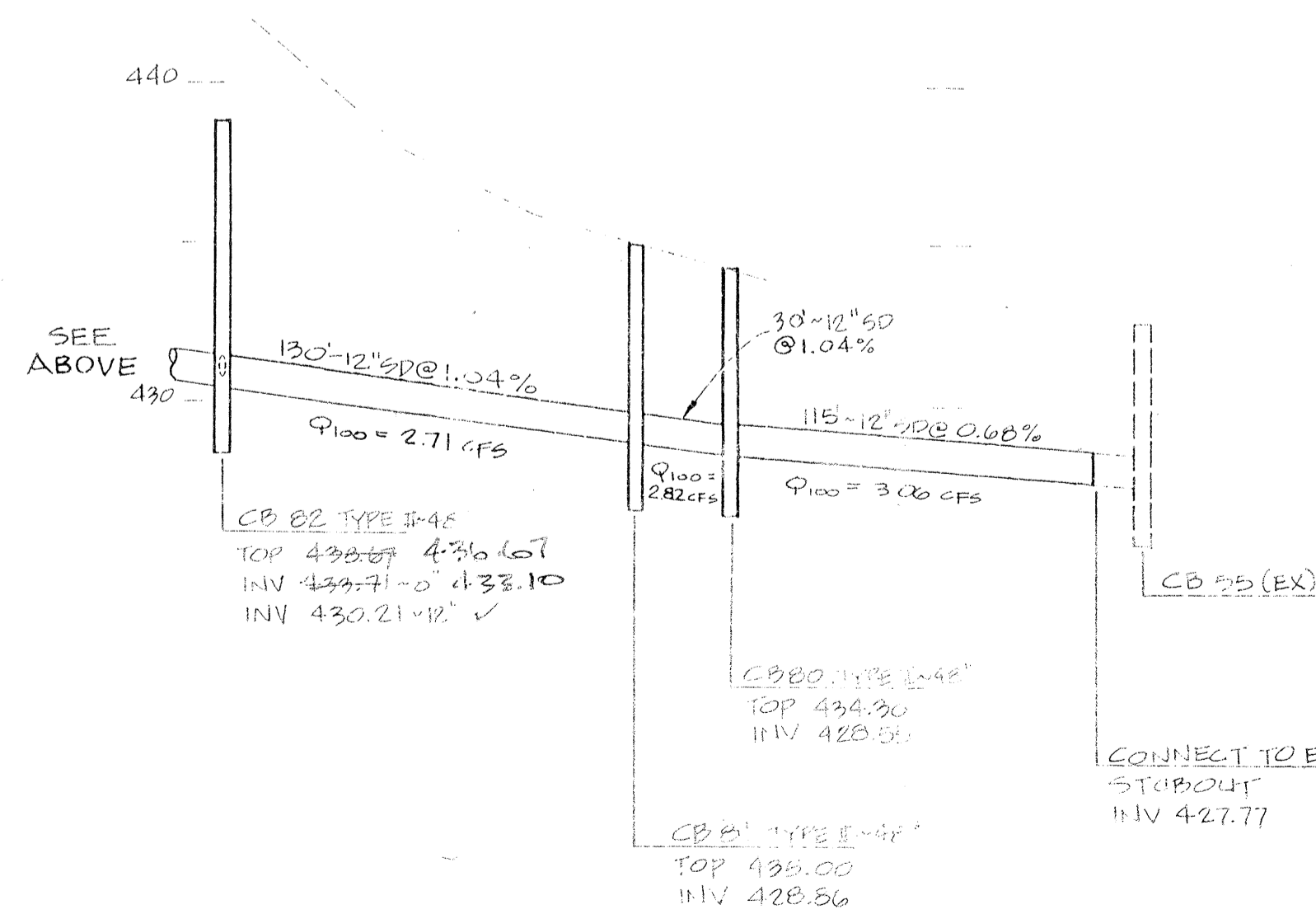
LOW POINT ELEV = 436.97
 LOW POINT STA = 10150.00
 PVC STA = 10175
 PIVC ELEV = 437.47
 A.D. = -3.00



LOW POINT ELEV = 441.68
 LOW POINT STA = 0158.33
 PVC STA = 0150
 PIVC ELEV = 441.51
 A.D. = -2.50



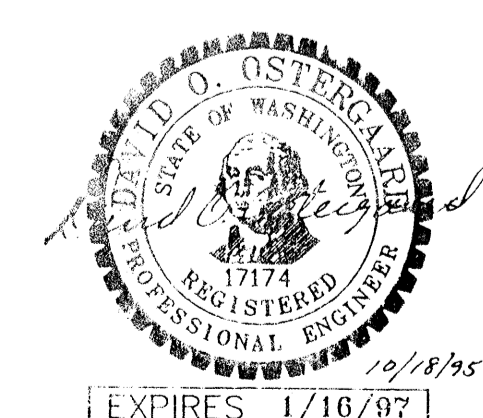
NOTE: SEE NOTE 11 ON SHEET 4 FOR ALLOWABLE PIPE MATERIALS.



SCALE: HORIZ. 1"=50' VER. 1"=5'

Larry - Save for as-Built of Div. 6

DIVISION 6



ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 DIRECTOR OF COMMUNITY DEVELOPMENT DATE

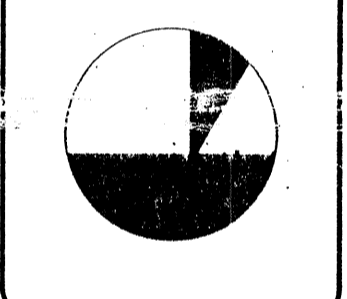
ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 CITY ENGINEER DATE

30th DR SE LOT 20 & 21 ROAD LOWERING GRADES THE PARKS - DIV. 6

THE PARKS HDEV-359

DATE	REVISION
4/18/96	PER CITY REVIEW
7/15/96	PER CITY REVIEW
11/15/96	PER CITY REVIEW
2/10/97	LOWEY ROAD GRADES

OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
 3630 COLBY AVE. EVERETT, WA 98201
 (206) 259-6445 BELLEVUE: (206) 827-3654



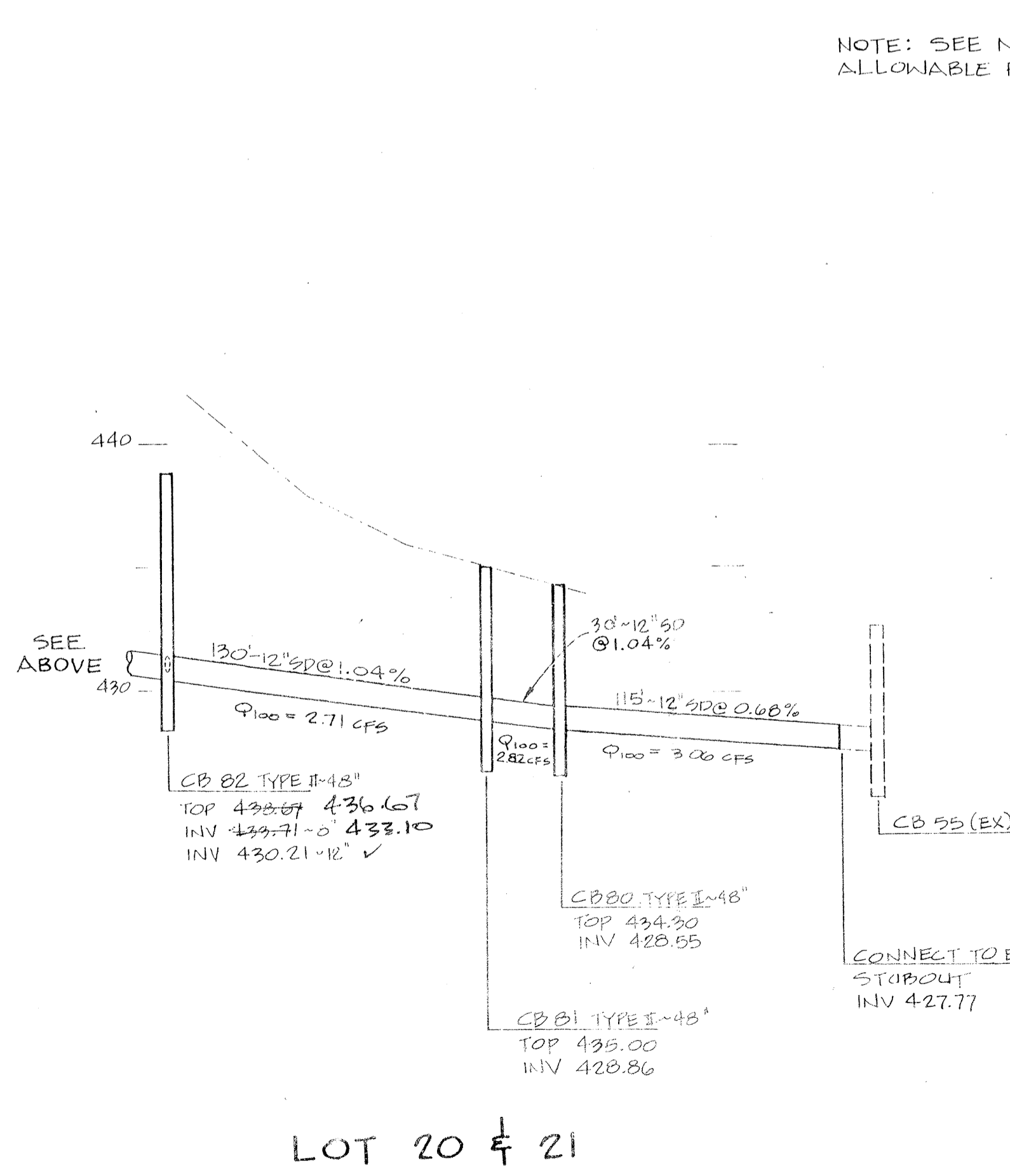
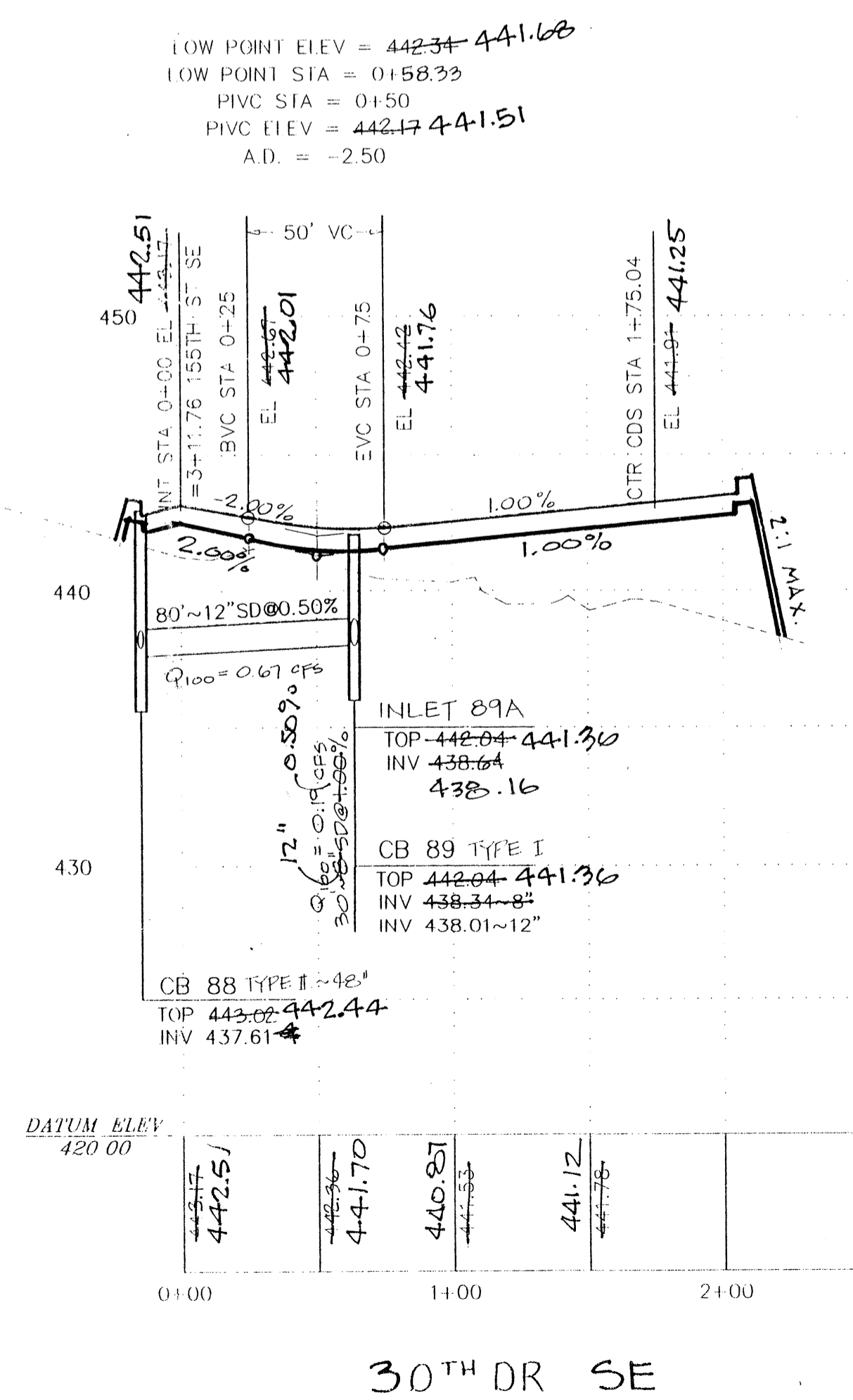
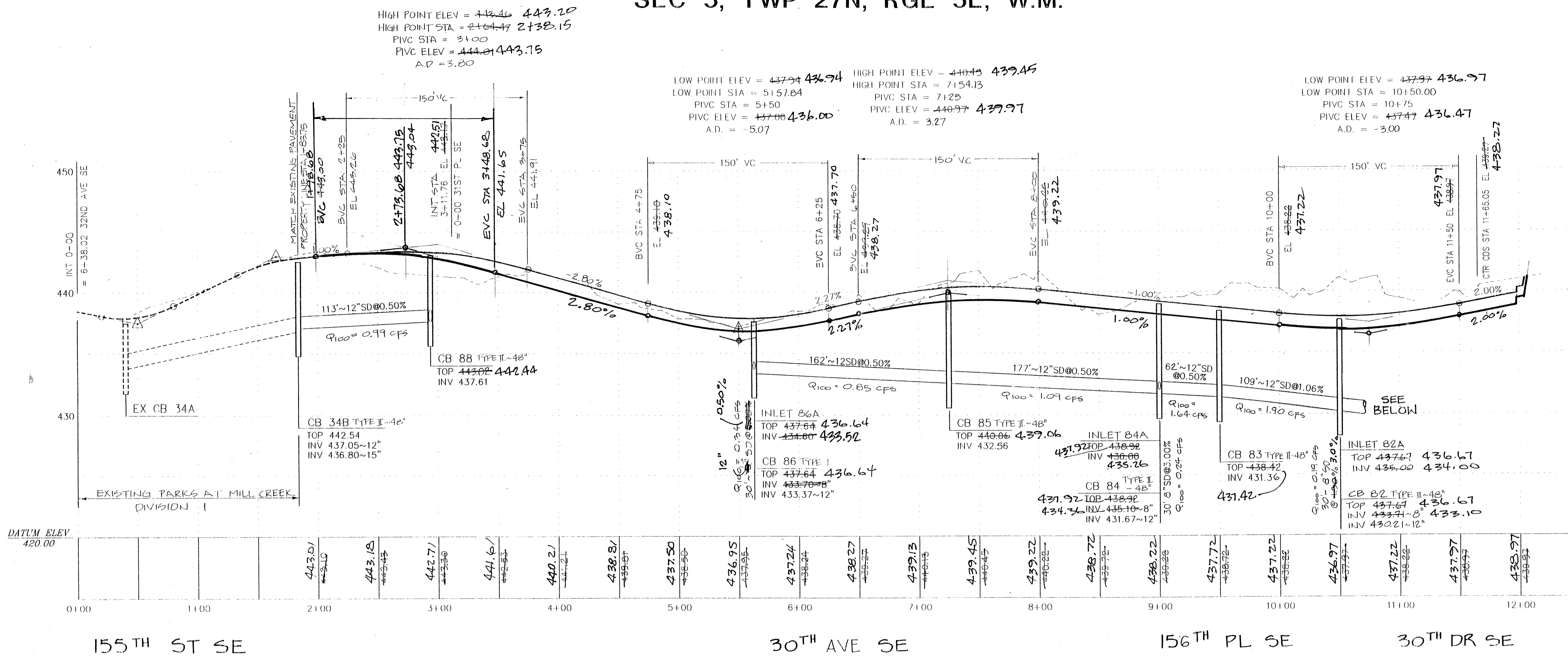
THE PARKS AT MILL CREEK ROAD + STORM DRAINAGE PROFILE WASHINGTON CITY OF MILL CREEK

Designed LDR _____
 Checked _____
 Drawn LDR _____
 Checked _____
 As-built _____

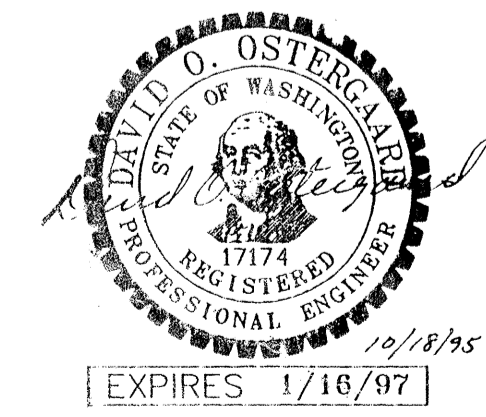
Sheet 3 of 6

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.



SCALE:
HORIZ 1"=50'
VERT 1"=5'



ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK

DIRECTOR OF COMMUNITY DEVELOPMENT DATE

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK

CITY ENGINEER DATE

DIVISION 6

THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE
CITY OF MILL CREEK WASHINGTON

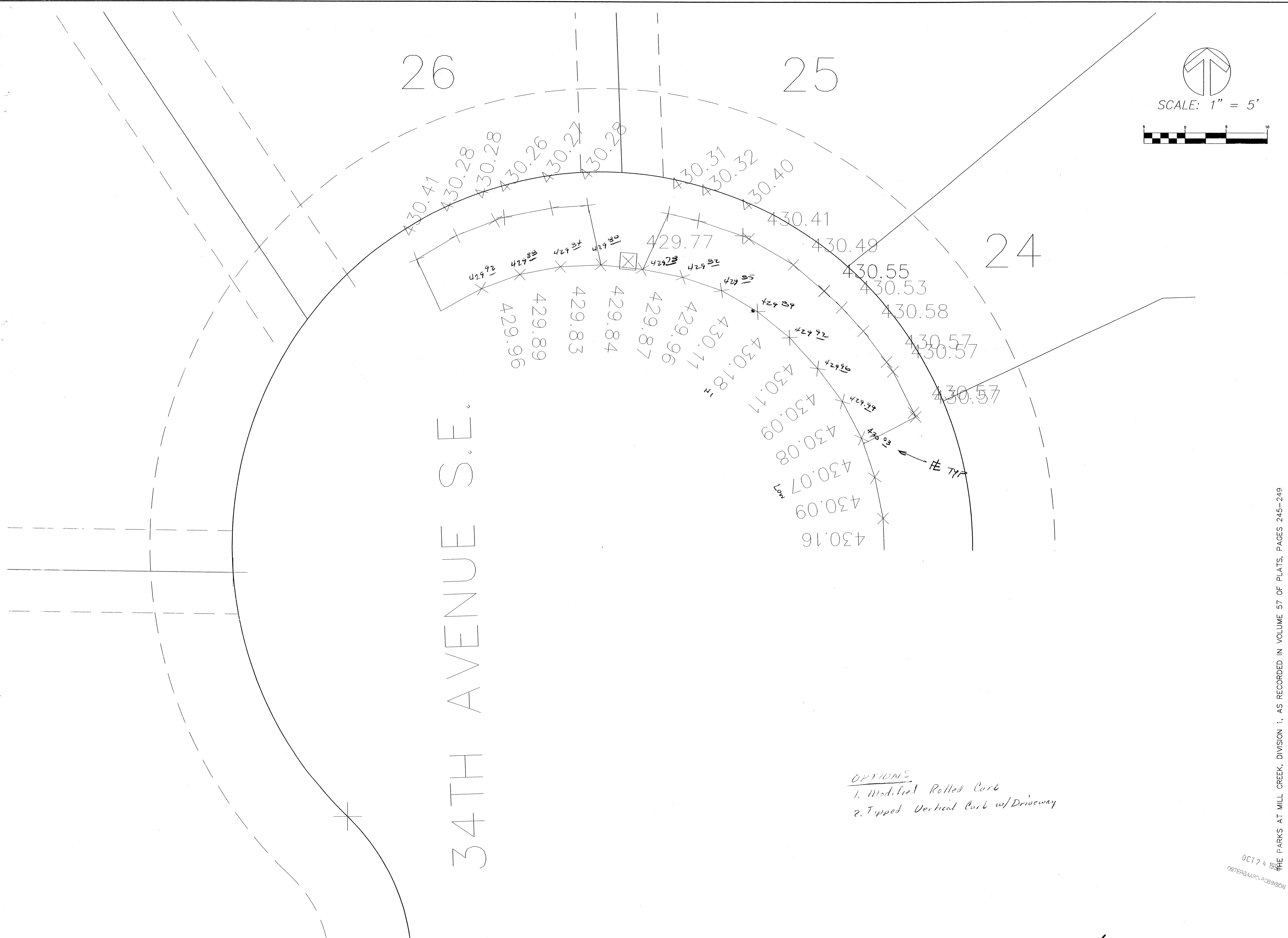
Designed LDR _____
Checked _____
Drawn LDR _____
Checked _____
As-built _____

Sheet 3 of 6

Job No. 93129

OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
3830 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE, (206) 827-8864

DATE	REVISION	BY
4/18/96	PER CITY REVIEW	LR
7/18/96	PER CITY REVIEW	LR
11/15/96	"	LR
2/10/97	LOWE ROAD GRADES	LR/KLP

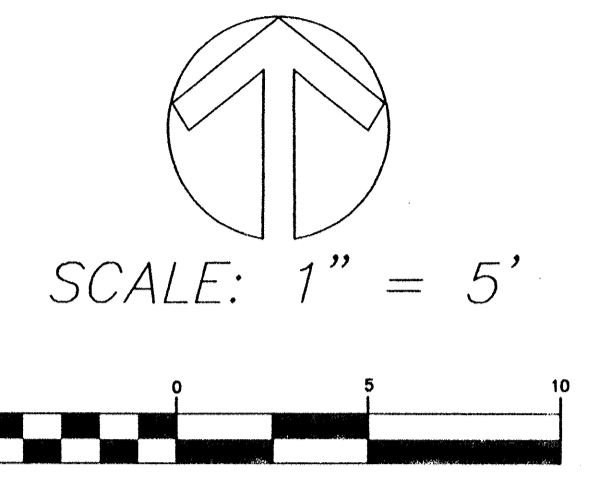


26

25

24

34TH AVENUE S.E.



- OPTIONS
1. Modified Rolled Curb
 2. Tipped Vertical Curb w/Driveway

OCT 24 1994
 OSTERGAARD, ROBINSON
 THE PARKS AT MILL CREEK, DIVISION 1, AS RECORDED IN VOLUME 57 OF PLATS, PAGES 245-249

DATE	REVISION	BY

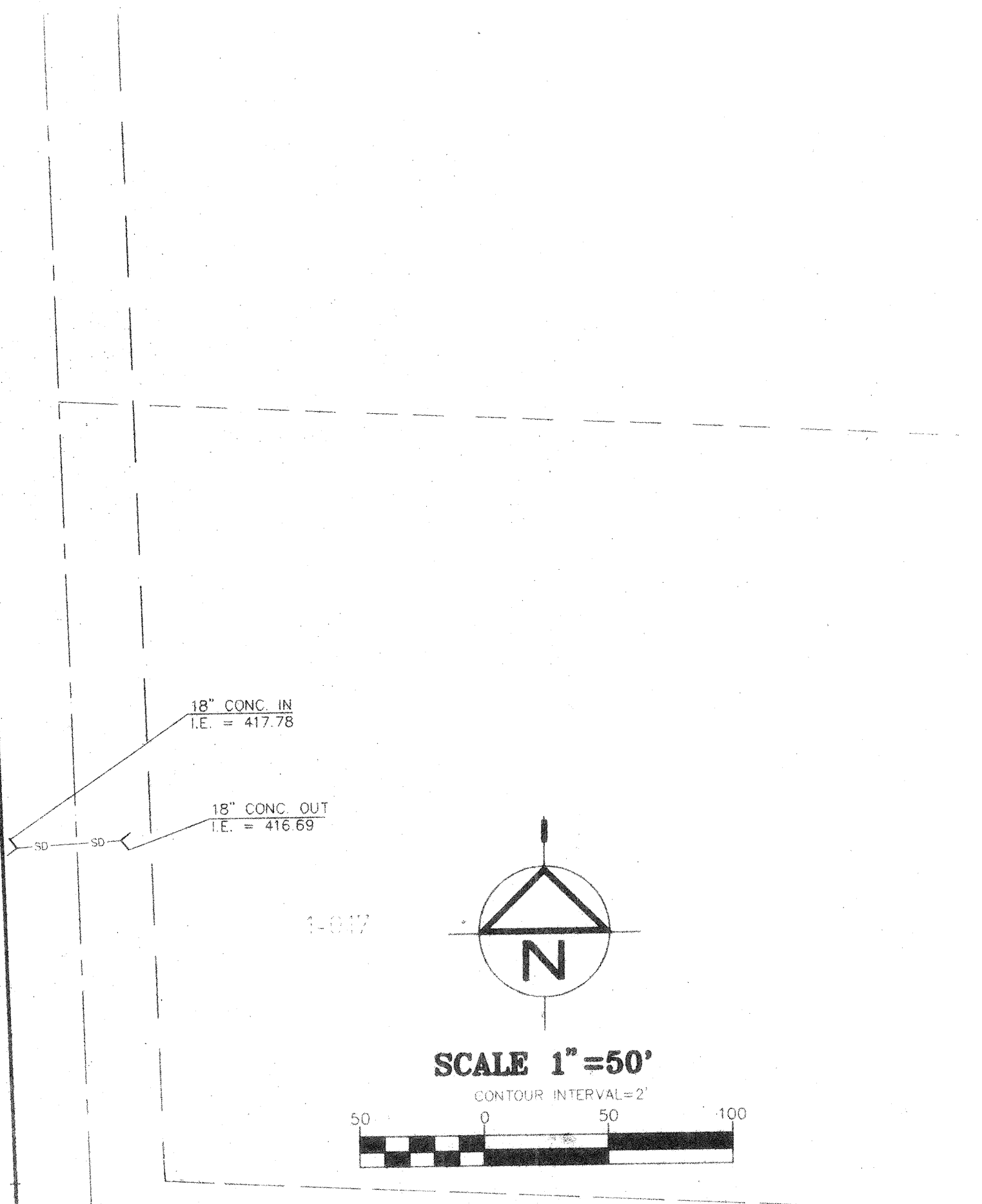
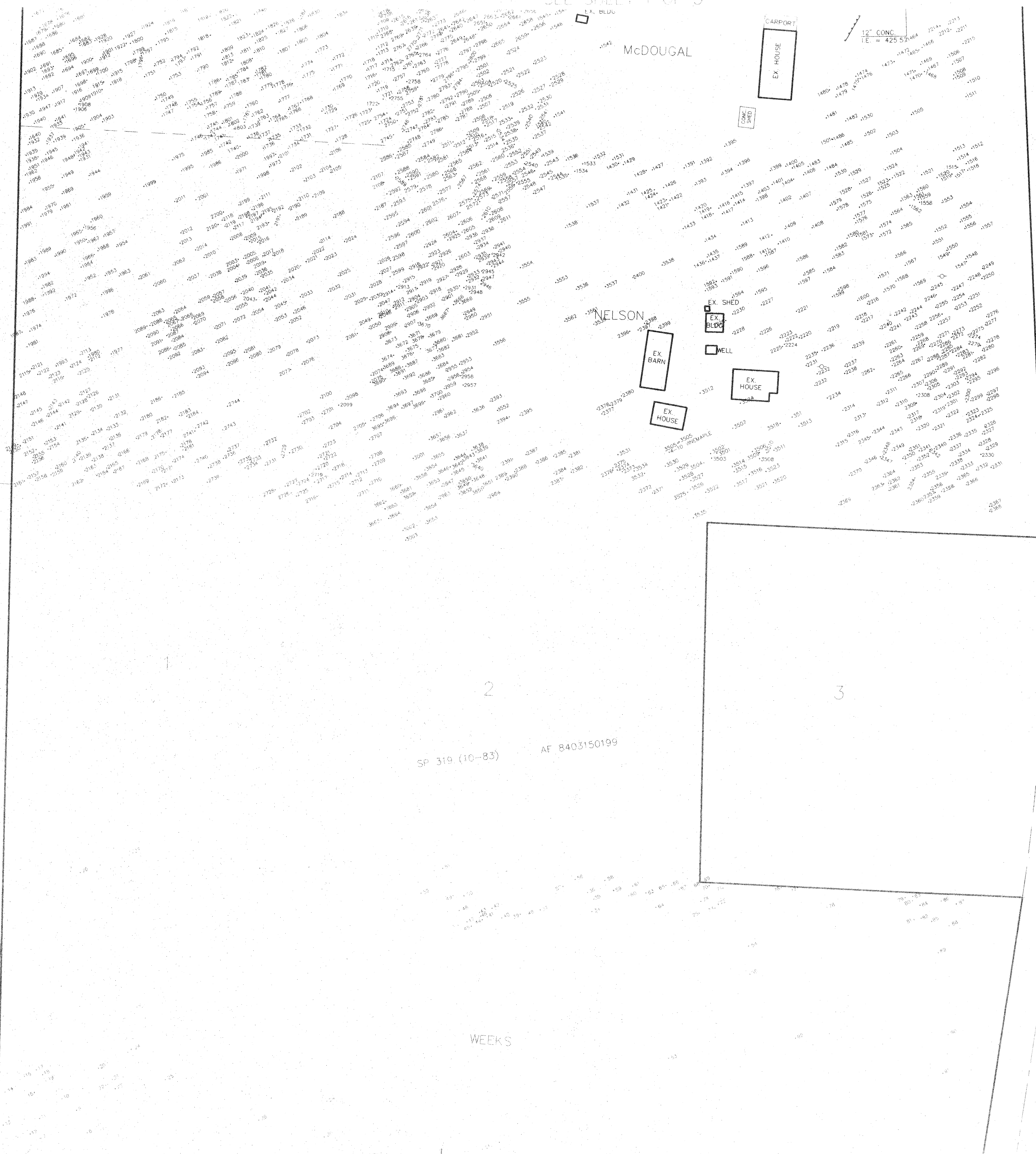
OSTERGAARD • ROBINSON
 & ASSOC. INC. CONSULTING ENGINEERS
 3630 COLBY AVENUE
 (206) 259-6445
 EVERETT, WA 98201
 BELLEVUE: (206) 827-5854

THE PARKS AT MILL CREEK
 DIVISION 1
 S/W - D/W
 A.B. WASHINGTON
 SNOHOMISH COUNTY

Designed	Checked	CHS
Drawn	SGB	
Dwg. no.		
Plotted	10-23-97	

Sheet	1	of	1
-------	---	----	---

SEE SHEET 1 OF 3



156th ST. S.E.

35th AVE. S.E. (YORK ROAD)

SEE SHEET 3 OF 3

DATE: _____
 REVISION: _____
 NO. _____

DATE: _____

DATE: _____

G7 GROUP FOUR, Inc.
 16030 JUANITA - WOODVILLE WAY NE
 BOTHELL, WASHINGTON 98011
 (206) 775-4561 • (206) 362-4244 • FAX (206) 362-3819
 SURVEYING ENGINEERING PLANNING MANAGEMENT
 DRAWN BY: MCH CHECKED BY: _____ APPROVED BY: _____
 DATE: 1-18-93 DATE: _____

TREE SURVEY
THE PARKS AT MILLCREEK
 COUNTRYWOOD HOMES, INC.
 SNOHOMISH COUNTY WASHINGTON

DEC 6 1993
 SHEET 2 OF 3
 JOB NO: 92-8029

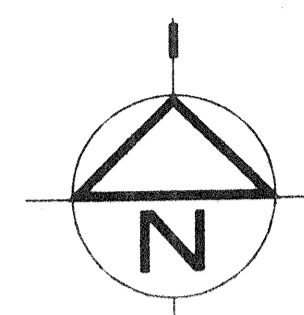
SEE SHEET 2 OF 3

WEEKS

DUNN

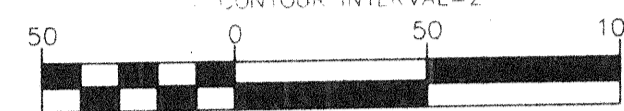
RAY

4-000



SCALE 1"=50'

CONTOUR INTERVAL=2'



12" CONC IN
I.E. = 414.99

12" CONC OUT
I.E. = 413.78

35th AVE. S.E. (YORK ROAD)

30th ST S.E.

HIGHLANDS BLVD S.E.

EX. MANHOLE
RIM = 431.52
I.E. = 419.49

EX. MANHOLE (SOUTH)
RIM = 418.92
I.E. = 402.43



NO.	BY
REVISION	DATE

DATE	BY
------	----

DATE	BY
------	----

GI GROUP FOUR, Inc.
 16030 JUANITA-WOODINVILLE WAY NE
 BETHELL WASHINGTON 98011
 (206)775-4581 • (206)362-4244 • FAX (206)362-3819
 SURVEYING ENGINEERING PLANNING MANAGEMENT
 DRAWN BY: MCH CHECKED BY: APPROVED BY:
 DATE: 1-18-93 DATE: DATE:

WASHINGTON
 SNOHOMISH COUNTY
 THE PARKS AT MILLCREEK
 COUNTRYWOOD HOMES, INC.
 TREE SURVEY
 DEC 6 1993

SHEET 3 OF 3
 10B NO:92-8029

FILENAME: MTR956.PWG
 UPDATED: FEB 23 1993

J. CLARK JOHNSON CONSULTING ENGINEERS
 1418-112TH AVENUE N.E.
 BELLEVUE WASH. 98004
 (206) 454-7197

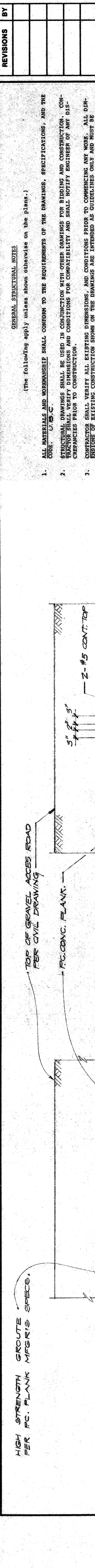
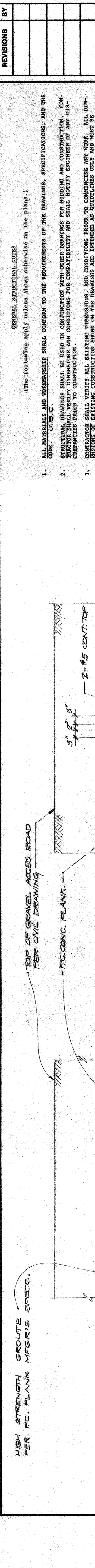
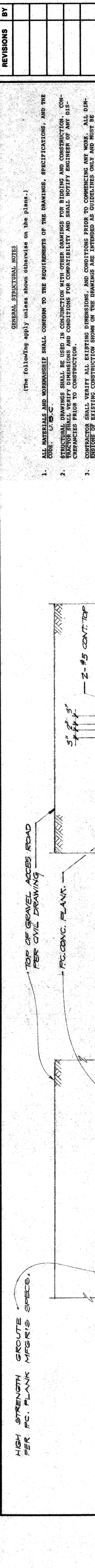
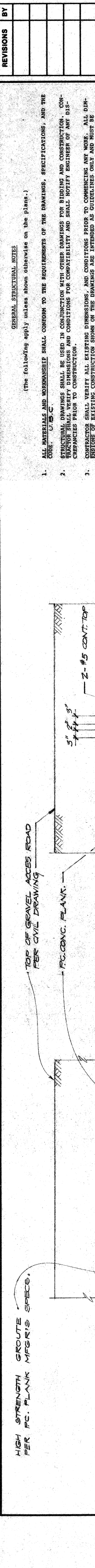
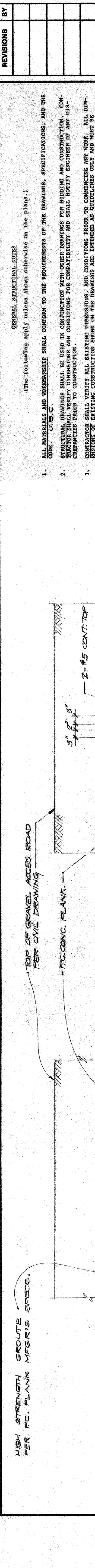
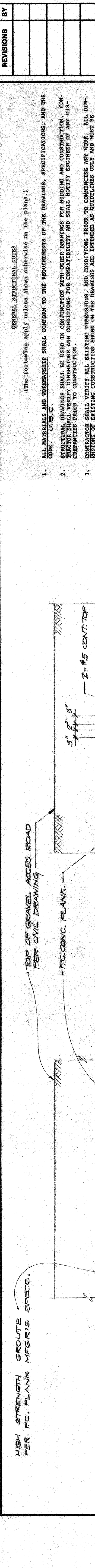
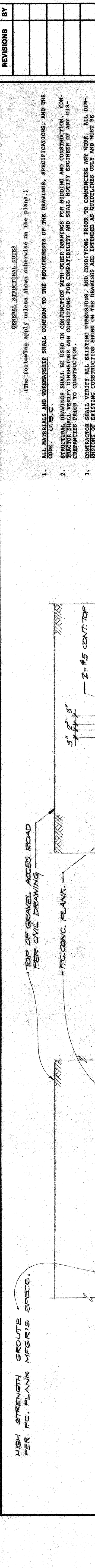
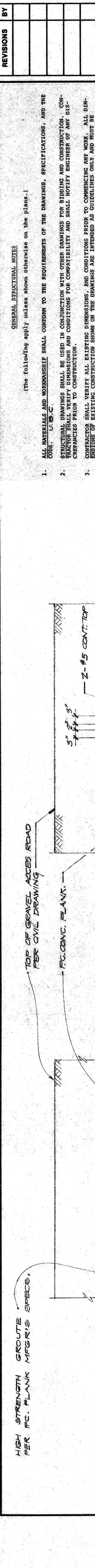
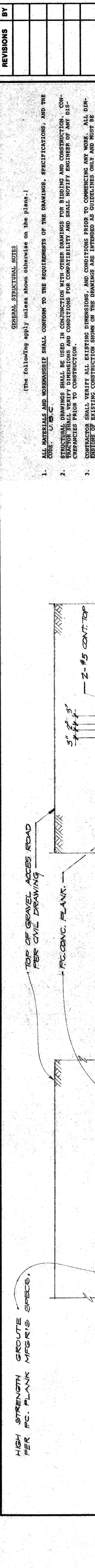
CITY OF MILL CREEK
 STORMWATER DETENTION VAULT
 WASHINGTON

CIVIL ENGINEER: O. T. BARNARD
 ROBINSON & ASSOCIATES, INC.

Scale: 1/4" = 1'-0"
 Date: 07-14-93
 Drawn: V.B.
 Job: THE PARKS AT MILL CREEK
 Sheet: 52
 01 of 5 Sheets

GENERAL STRUCTURAL NOTES
 (the following apply unless shown otherwise on the plans.)

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND THE CODE.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- SHOP DRAWINGS FOR REINFORCING STEEL AND PRECAST CONCRETE MEMBERS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.
- CONCRETE STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:
 A. Cast in Place Concrete: 3,000
 B. Precast Concrete: 4,000
 C. Maximum Compressive Strength: 5,000
 D. Maximum Water Content: 7-1/2%
 E. Maximum Air Content: 5%
 F. Maximum Slump: 5"
 G. Maximum Free Water: 5 1/2%
 H. Maximum Free Water per Gallon of Cement: 8,000
 I. Maximum Free Water per Bag of Cement: 7-1/2 gallons
- THE MINIMUM AMOUNTS OF CEMENT AND MAXIMUM AMOUNTS OF WATER MAY BE VARIED IN A CONCRETE DESIGN MIX AS LONG AS THE WATER-CEMENT RATIO AND THE WATER-CURRANT RATIO REMAIN CONSTANT. THE CONCRETE DESIGN MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTITUTING STRENGTH DATA IN ACCORDANCE WITH U.B.C. 2604(c).
- ALL CONCRETE EXPOSED TO WEATHER OR TO FREEZING TEMPERATURES WHILE WET SHALL BE AIR ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO U.B.C. STANDARD 26-3. THE MOISTY SHALL BE 4 1/2% BY VOLUME. REINFORCING STEEL SHALL CONFORM TO ASTM A615-75, GRADE 60, fy = 60,000 PSI. ULTIMATE STRENGTH DESIGN METHOD USED.
- PRESTRESSING STRANDS SHALL BE 1/2" ROUND 270K SEVEN WIRE UNCOATED STRESS RELIEVED STRAND CONFORMING TO ASTM A-415 (270K).
- REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 318-89 AND U.B.C. 2603. ALL CONTINUOUS REINFORCEMENT SHALL BE LAP JOINTED AT 2'-0" MINIMUM. LAP ADJACENT WIRE OF WEAPONS WIRE MESH AT SIDES AND BENDS. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS.
- NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
- CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 A. Footings and other unreinforced surfaces, earth face: 4" (15 bars or larger)
 B. Formed surfaces exposed to earth: 2" (15 bars or larger)
 C. Ground, water or weather: 1-1/2" (15 bars or larger)
 D. Precast concrete members shall be adequately braced until all final connections have been completed in accordance with the plans. CONTRACTOR SHALL PROVIDE ANY EXTRA REINFORCEMENT, INSERTS, LIFTING DEVICES, PRESTRESSING, ETC., REQUIRED FOR HANDLING AND ERECTION.
 E. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD DIRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
 F. NON-SHrink GROUT PLACED BETWEEN P.C. PLANKS SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
 G. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
 H. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
 I. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
 J. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE STRUCTURAL ENGINEER OF ANY CONDITIONS WHICH MAY BE SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.
 K. FOOTINGS SHALL BEAR ON UNWEIGHED UNDISTURBED EARTH OR COMPACTED ENGINEERED FILL. BACKFILL AGAINST CONCRETE SHALL BE WITH FREE DRAINING GRANULAR BACKFILL.
 L. SOILS ENGINEER SHALL VERIFY ACTUAL EXISTING SOIL CONDITIONS AT TIME OF VAULT EXCAVATION AND IF DIFFERENT FROM SOILS REPORT, HE SHALL NOTIFY ENGINEER. VAULT IS NOT DESIGNED FOR HYDROSTATIC PRESSURE.
 M. PLACE BACKFILL EVENLY TO EACH WALL ALL AROUND VAULT.
 N. USE VAULT MECHANICAL DETAILS AND CIVIL DETAILS FOR PIER LOCATIONS AND COVER OVER TOP SLAB.
 O. LOADS ON ROOF PLANK. SEE CIVIL DRAWINGS FOR HEIGHT OF SOIL, WIND LOADS, AND COVER OVER TOP SLAB.
 P. EQUIVALENT FLUID PRESSURE = 95 PC ASSUMED. SOILS ENGINEER SHALL VERIFY.
 Q. ALLOW SOIL BEARING = 6000 PSF. ASSUMED. TOTAL PRESSURE. SOILS ENGINEER SHALL VERIFY.
- REQUIRED CERTIFICATIONS
 A. PRIOR TO RELEASE OF THE PERFORMANCE BOND, THE FOLLOWING CERTIFICATIONS SHALL BE SUBMITTED TO THE STORE AND SURFACE WHEN MANAGER DEPARTMENT.
 B. SOILS ENGINEER SHALL VERIFY EXISTING SOIL CONDITIONS AT THE TIME OF VAULT EXCAVATION AND SUBMIT SOIL BEARING CERTIFICATION.
 C. STRUCTURAL ENGINEER SHALL REVIEW SHOP DRAWINGS AND CALCULATIONS FOR ROOF PLANK SYSTEM AND SUBMIT CERTIFICATION OF ADEQUACY.
 D. CERTIFICATION OF THE PLACEMENT OF ALL STEEL REINFORCING SHALL BE SUBMITTED FROM A QUALIFIED TESTING LABORATORY.
 E. CERTIFICATION OF THE CONCRETE STRENGTH SHALL BE SUBMITTED FROM A QUALIFIED TESTING LABORATORY (MINIMUM OF THREE CYLINDERS PER VAULT).
 F. AS-BUILT DATA CERTIFYING THE VOLUME OF EACH VAULT SHALL BE SUBMITTED BY A LICENSED ENGINEER OR SURVEYOR.
- STRUCTURAL INSPECTION: A QUALIFIED STRUCTURAL ENGINEER/INSPECTOR SHALL BE RETAINED BY THE APPLICANT. THE STRUCTURAL INSPECTOR SHALL INSPECT AND PROVIDE INSPECTION REPORTS, IN COMPLIANCE WITH SECTIONS 305 AND 306 OF THE UNIFORM BUILDING CODE. TO THE BUILDING DEPARTMENT. DEVELOPMENT INSPECTION UNIT PRIOR TO FINAL CONSTRUCTION APPROVAL. DOCUMENTATION SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLIANCE WITH REQUIREMENTS FOR CONCRETE, REINFORCING STEEL AND PRESTRESSING STEEL, SOIL ENGINEER AND BACKFILL BY SOIL ENGINEER.
- APPROVAL OF SPECIAL INSPECTION SERVICE SHALL BE OBTAINED FROM THE DISTRICT OFFICE OF BUILDING INSPECTIONS PRIOR TO CONSTRUCTION. PER SECTION 306 U.B.C. FOR CONCRETE REINFORCING STEEL, PRESTRESSING STEEL, SPECIAL GRADING, EXCAVATION, FILLING, AND SOILS ENGINEER SHALL VERIFY SOIL BEARING PRESSURE OF 6000 PSF AT DETENTION VAULT. SUBMIT FIELD INSPECTION REPORTS, TEST LAB REPORTS AND FINAL REPORTS TO BUILDING INSPECTION INSPECTOR. IN COMPLIANCE WITH SECTION 306 U.B.C.
- SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY ENGINEER OF RECORD. AN APPROVED COPY SHALL BE SUBMITTED TO THE COMMERCIAL MULTIFAMILY PRODUCTS SECTION, BUILDING INSPECTION UNIT PER SECTION 302, U.B.C. AND THE CITY OF MILL CREEK BUILDING DEPARTMENT.
- CONCRETE PRECAST PLANKS SHALL BE MANUFACTURED ON THE PREMISES OF APPROVED FABRICATOR UNDER CRITERIA SET BY SECTION 306 (f), U.B.C.
- VAULT CONSTRUCTION SHALL BE SUPERVISED BY A LICENSED CIVIL ENGINEER. SUBMIT INSPECTION REPORTS TO: BUILDING DEPARTMENT, CIVIL ENGINEER, AND STRUCTURAL ENGINEER.



10. INTERSECTION AND CORNER REINFORCEMENT

11. HIGH STRENGTH GROUT PER P.C. PLANK MFR'S SPECS.

12. TOP OF GRAVEL ACCESS ROAD PER CIVIL DRAWING

13. RC CONG. FLANK

14. #5 @ 10\" O.C. HORIZ.

15. 2-#5 @ 4-0\" DIAGONAL, TYR

16. 2-#6 CONT. OVER OPENING

17. #5 @ 10\" O.C. HORIZ. @ E. WALL

18. #5 @ 12\" O.C. VERT. @ E. WALL

19. #5 @ 10\" O.C. @ S. WALL

20. #5 @ 10\" O.C. @ W. WALL

21. #5 @ 10\" O.C. @ N. WALL

22. #5 @ 10\" O.C. @ E. WALL

23. #5 @ 10\" O.C. @ W. WALL

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REVISIONS	BY

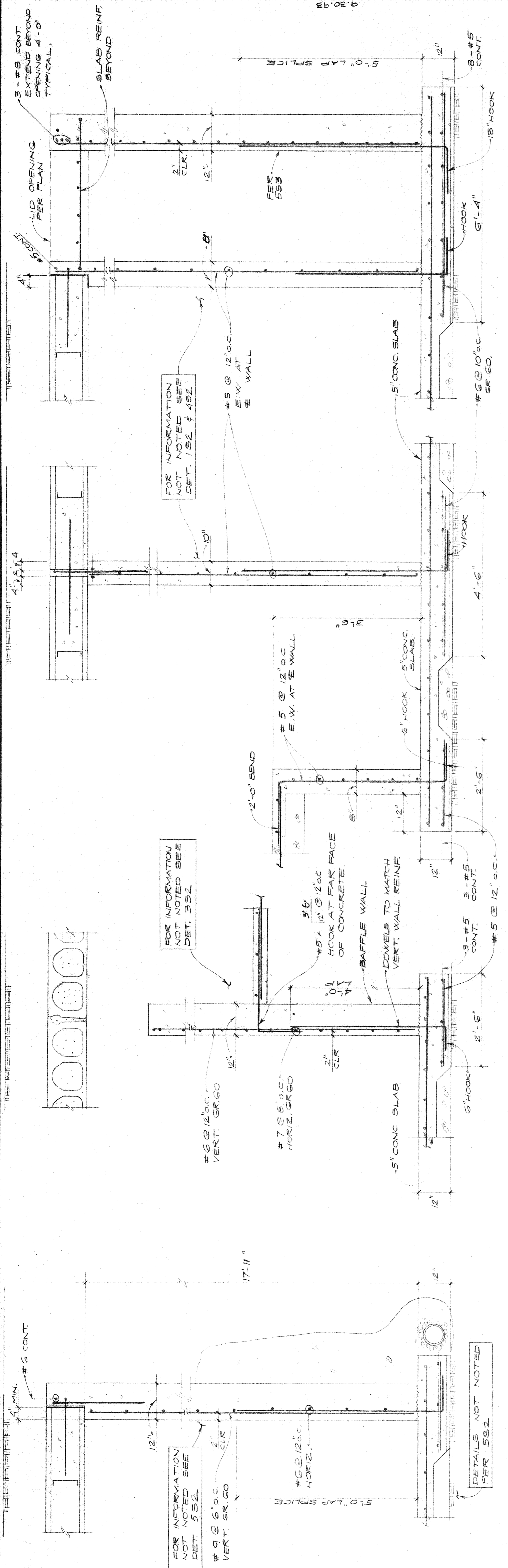
J. CLARK JOHNSON
CONSULTING ENGINEERS
1418-112TH AVENUE N.E.
BELLEVUE, WASH. 98004
(206) 454-7137



SUBDIVISION, INC.
CIVIL ENGINEER: OSTERKAMP
ROBINSON &
3900C INC.

THE PARKS AT MILL CREEK
STORMWATER DETENTION VAULT
WASHINGTON
CITY OF MILL CREEK

Date 9.29.95
Scale 3/4" = 1'-0"
Drawn
Job
Sheet
01 of 3 Sheets



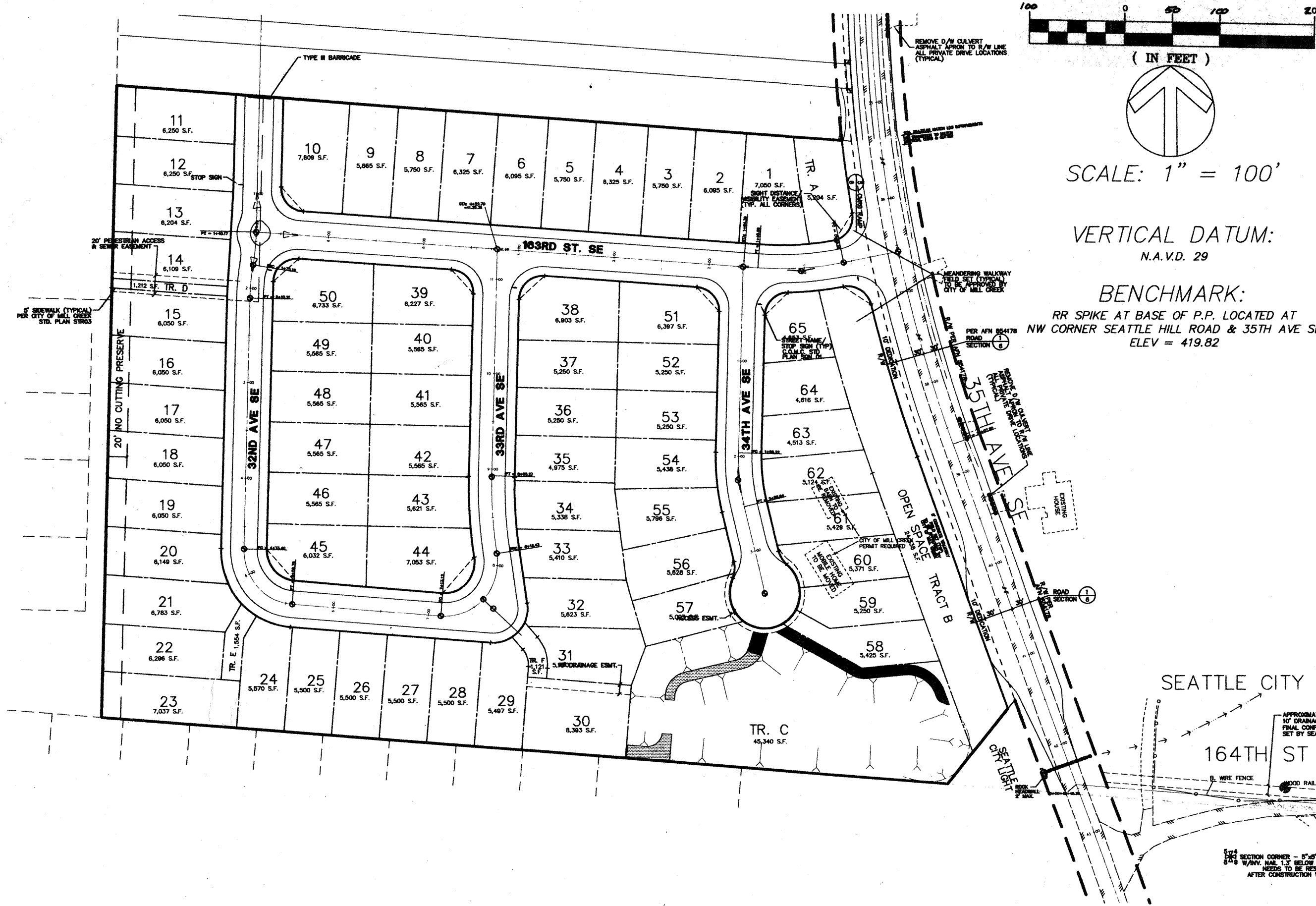
SIDE WALL AT SUMP 5

SUMP SECTION 3

SUMP SECTION 2

AT ACCESS HATCH 1

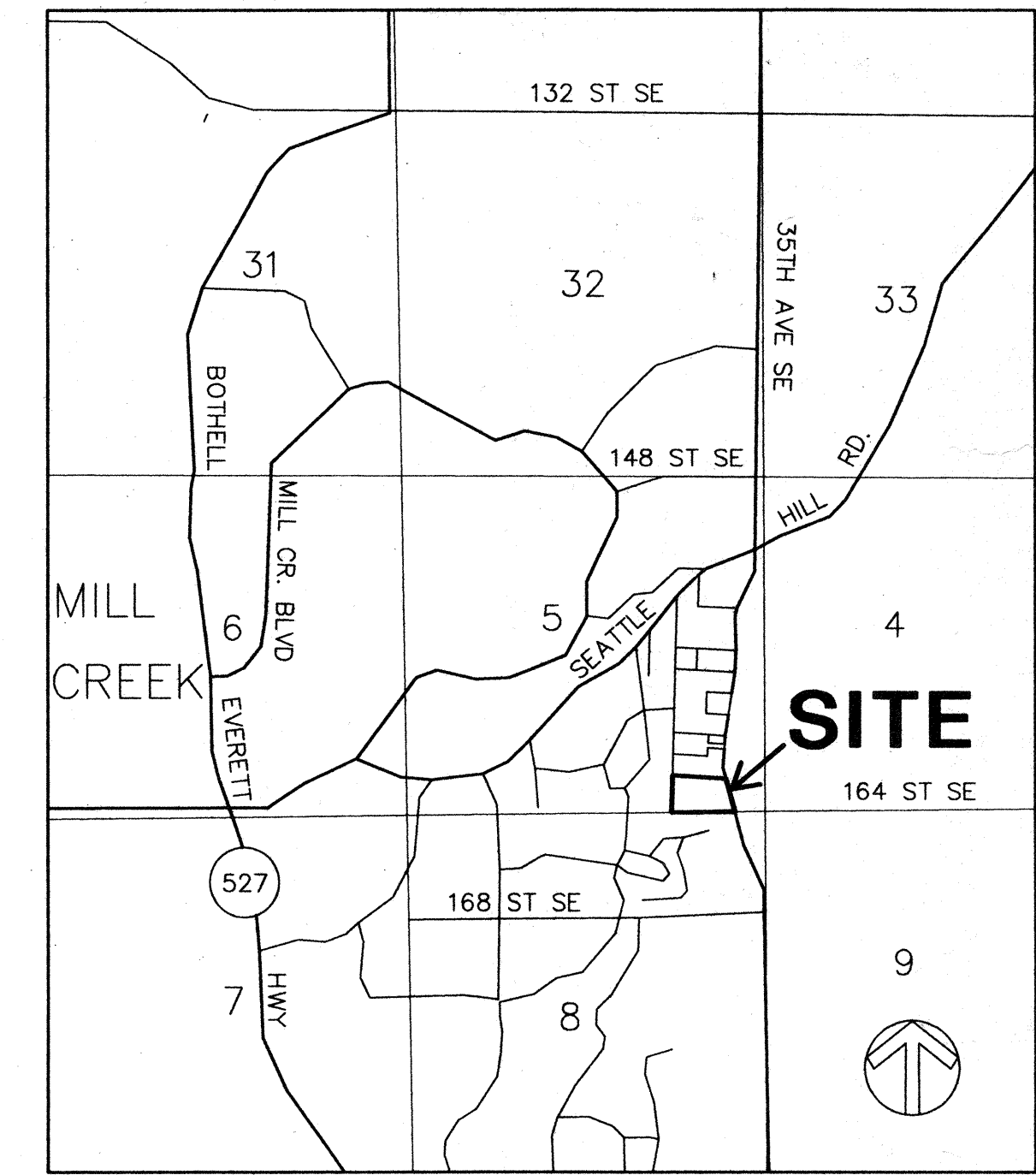
SEC 5, TWP 27N, RGE 5E, W.M.



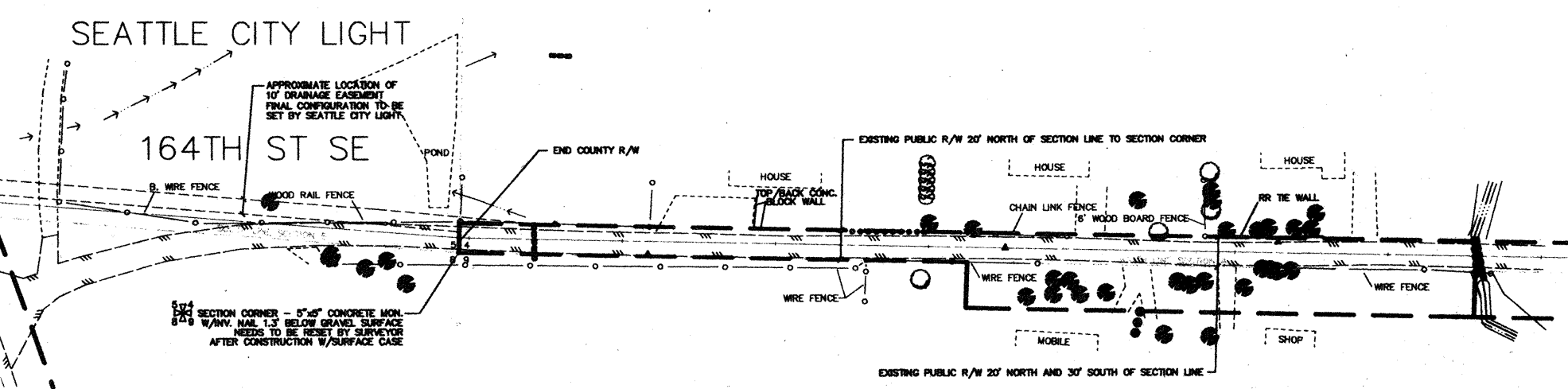
LEGAL DESCRIPTION:

PARCEL A:
 THAT PORTION OF THE NORTH HALF OF THE SOUTH HALF OF SOUTHEAST QUARTER OF SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., LYING WESTERLY OF YORK COUNTY ROAD (ALSO KNOWN AS 35TH AVENUE S.E.).
 SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

PARCEL B:
 THAT PORTION OF THE SOUTH HALF OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER, LYING WEST OF COUNTY ROAD (YORK), IN SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.,
 SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.



VICINITY MAP
 SCALE: 1" = 2560'



THE PARKS AT MILL CREEK DIVISION SEVEN

DEPARTMENT OF FISHERIES
 APPROVAL
 R.C.W. 75.20.100
 R.C.W. 75.20.103
 June 21, 1996
 (applicant should refer to this date in all correspondence)
 PAGE 1 OF 2 PAGES

DEPARTMENT OF FISHERIES
 APPROVAL
 R.C.W. 75.20.100
 R.C.W. 75.20.103
 June 21, 1996
 (applicant should refer to this date in all correspondence)
 PAGE 2 OF 2 PAGES

PROJECT NAME Country Wood Homes	CONTACT PERSON(S) S/O Doug Birch/14410 Bel Red Road/Suite 200	CONTROL NUMBER 00-B6762-01
STREET OR RURAL ROUTE S/O Doug Birch/14410 Bel Red Road/Suite 200	CITY Bellevue	DATE 9/16/96
WATER Tambark Creek	TRIBUTARY TO Silver Creek	TYPE OF PROJECT Stormwater
WATERWAY SECTION 09 27N	TOWNSHIP 05E	COUNTY Snohomish

TIME LIMITATIONS: THIS PROJECT MAY BEGIN Immediately AND MUST BE COMPLETED BY October 31, 1997

THIS APPROVAL IS TO BE AVAILABLE ON THE JOB SITE AT ALL TIMES AND ITS PROVISIONS FOLLOWED BY THE PERMITTEE AND OPERATOR PERFORMING THE WORK.

SIZE IMPORTANT GENERAL PROVISIONS ON REVERSE SIDE OF APPROVAL

1. Detention and biofiltration of stormwater shall be provided in a 2-cell open pond with dead storage, per plans and specifications entitled "The Parks at Mill Creek" and "Drainage Analysis for the Proposed Plat of Parks at Mill Creek" submitted to Washington Department of Fish and Wildlife (WDFW) except as modified by this Hydraulic Project Approval (HPA). A copy of these plans shall be available on site during construction.
2. Erosion control methods shall be established prior to the start of other work. Erosion control shall be maintained as necessary to assure that no dirt or sediments enters the stream.
3. Wastewater from project activities and dewatering shall be routed to an upland area for removal of fine sediments and other contaminants. Only clean water shall enter the stream.
4. No dirt, sediments, or other substances deleterious to fish shall enter the stream.
5. Biofiltration of the stormwater shall be provided through dead storage in the detention pond and in a grassy swale.
6. The swales shall be fully vegetated with water-tolerant grasses prior to their use for water transport.
7. The detention pond shall be vegetated with water-tolerant trees, bushes, plants, and grasses.

SEPA: City of Mill Creek, DNS, 5/93
 REGIONAL HABITAT MANAGER: Rich Johnson (206) 339-3876
 PARKS: Wyatt 167 (PJ)
 APPLICANT - WLF/LIFE - READER - PATROL - HAS, MCR - WIA

DEPARTMENT OF FISHERIES
 Jeffrey Brantner, Jr. DIRECTOR

PROJECT NAME Country Wood Homes	CONTACT PERSON(S) S/O Doug Birch/14410 Bel Red Road/Suite 200	CONTROL NUMBER 00-B6762-01
STREET OR RURAL ROUTE S/O Doug Birch/14410 Bel Red Road/Suite 200	CITY Bellevue	DATE 9/16/96
WATER Tambark Creek	TRIBUTARY TO Silver Creek	TYPE OF PROJECT Stormwater
WATERWAY SECTION 09 27N	TOWNSHIP 05E	COUNTY Snohomish

8. The outfalls shall be sufficiently armored to prevent erosion and disperse the flow.
9. All bare earth areas shall be protected from erosion and revegetated.
10. The detention facility shall be maintained as necessary to assure it functions to design specifications.
11. The swales shall be maintained by cutting the grass as needed to promote growth and control length. To assure removal of pollutants, the clippings must be taken to an official landfill. The swales shall be cleaned of sediments, re-seeded, fertilized, and watered as necessary to keep them in proper working order.

LOCATION: 35th Avenue Southeast and 163rd Street Southeast, Mill Creek, WA

OWNER/DEVELOPER:
 COUNTRYWOOD HOMES, INC.
 14410 BEL-RED ROAD
 BELLEVUE, WASHINGTON 98007
 (206) 644-2321

ENGINEER:
 OSTERGAARD-ROBINSON & ASSOCIATES, INC.
 3630 COLBY AVE
 EVERETT, WASHINGTON 98201
 (206) 259-6445

SURVEYOR:
 OSTERGAARD-ROBINSON & ASSOCIATES, INC.
 3630 COLBY AVE
 EVERETT, WASHINGTON 98201
 (206) 259-6445

UTILITY DATA:
 WATER: ALDERWOOD SEWER & WATER DISTRICT
 SEWER: ALDERWOOD SEWER & WATER DISTRICT
 SCHOOL: EVERETT SCHOOL DISTRICT
 FIRE: FIRE DISTRICT 7
 POWER: SNOHOMISH COUNTY P.U.D.
 NATURAL GAS: WASHINGTON NATURAL GAS
 TELEPHONE: GENERAL TELEPHONE
 REFUSE: WASTE MANAGEMENT

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GRADING & TESCO:	
PLAN	10/12
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TRAFFIC CONTROL & SIGNAGE:	
PLAN	12/12

SEAL OF DAVID O. OSTERGAARD, REGISTERED PROFESSIONAL ENGINEER, STATE OF WASHINGTON, LICENSE NO. 7174, EXPIRES 1/16/97.

Snohomish County Planning and Development Services
 APPROVED FOR CONSTRUCTION

By: *[Signature]*
 R/W permit number: _____

DETERMINED TO BE CONSISTENT WITH CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 95-46

[Signature] 9/18/96
 DIRECTOR OF COMMUNITY DEVELOPMENT DATE

ACCEPTED FOR CONSTRUCTION OSTERGAARD-ROBINSON
 CITY OF MILL CREEK
[Signature] 9/18/96
 CITY ENGINEER DATE

RECEIVED
 SEP 19 1996
 CITY OF MILL CREEK

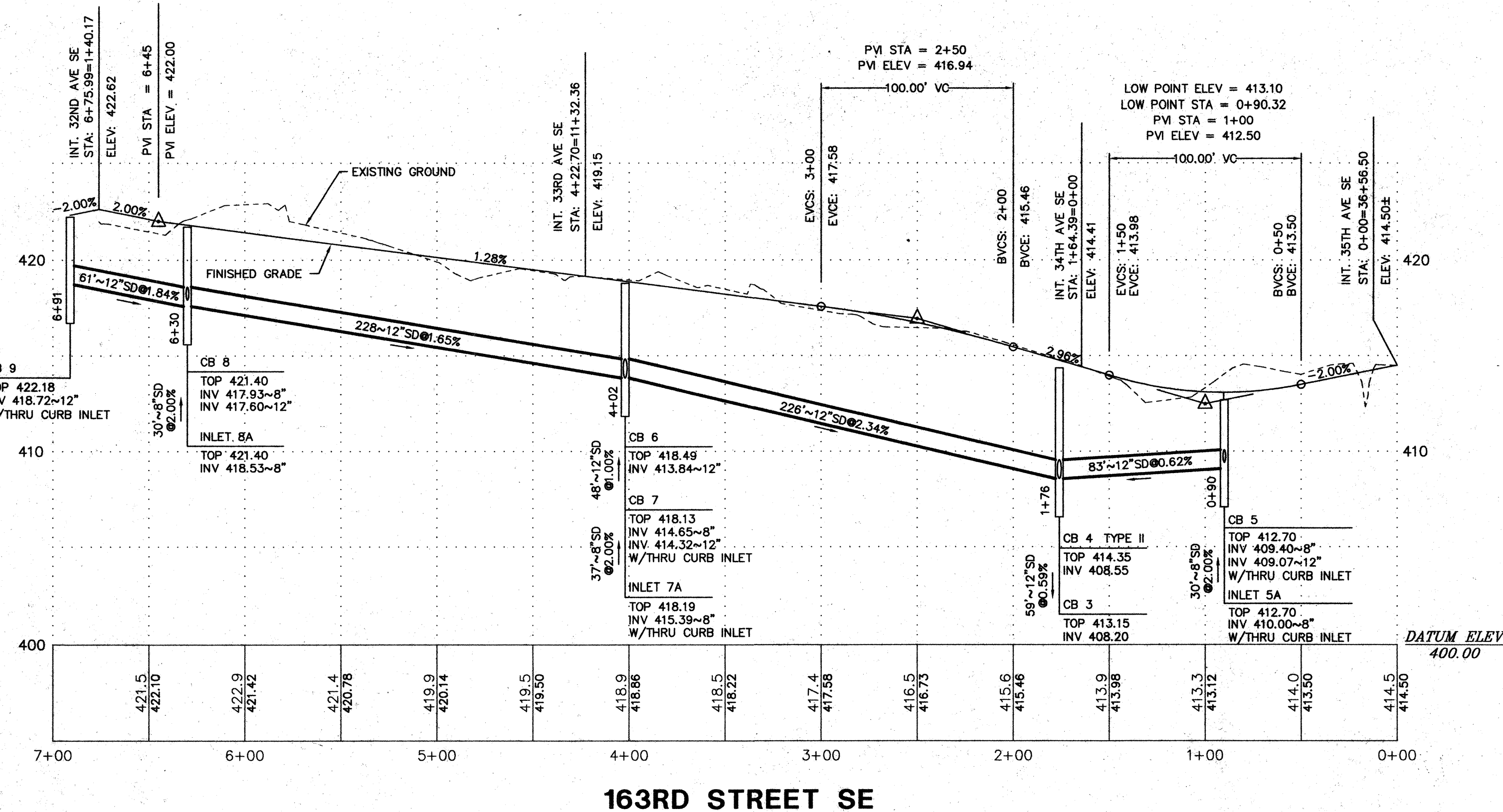
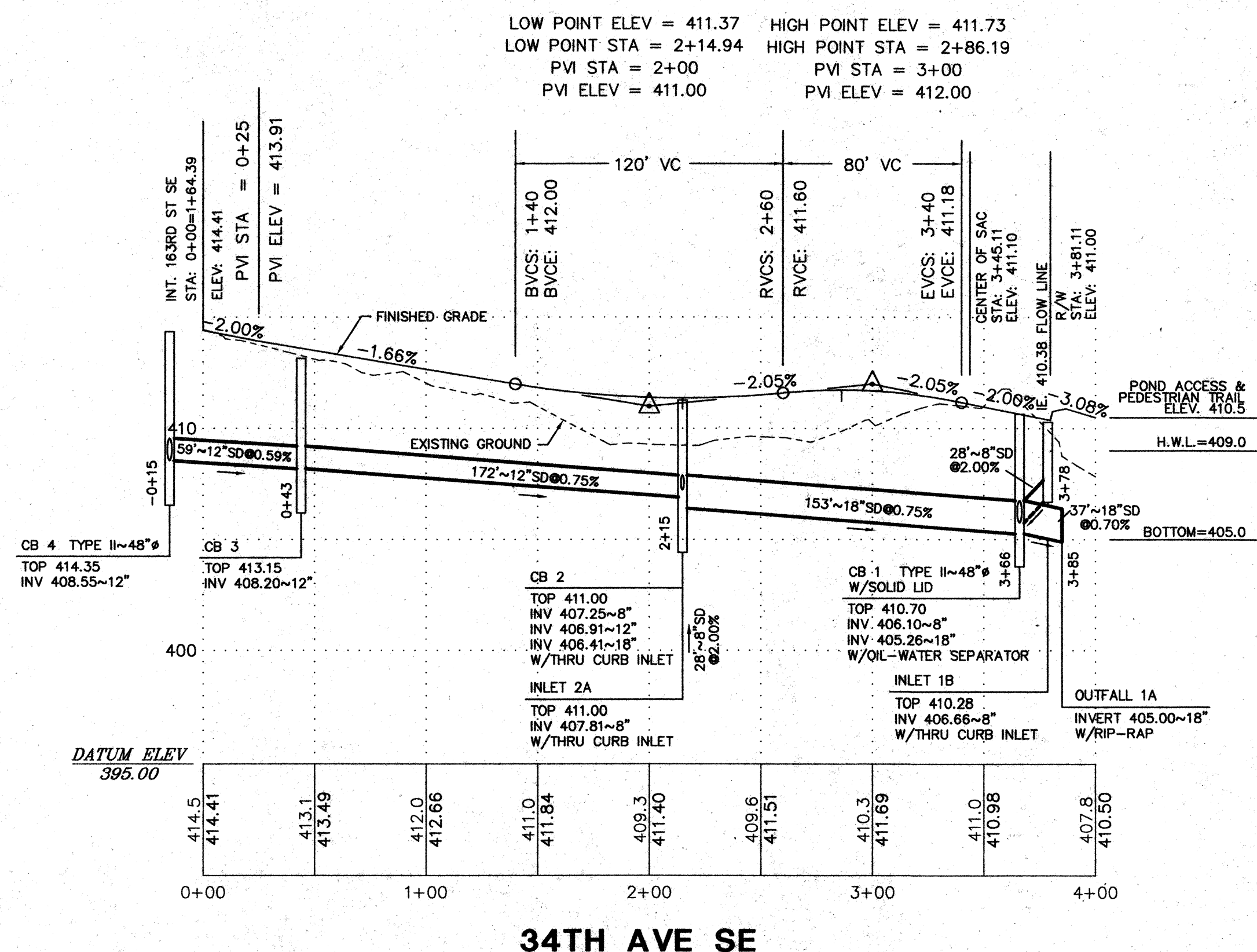
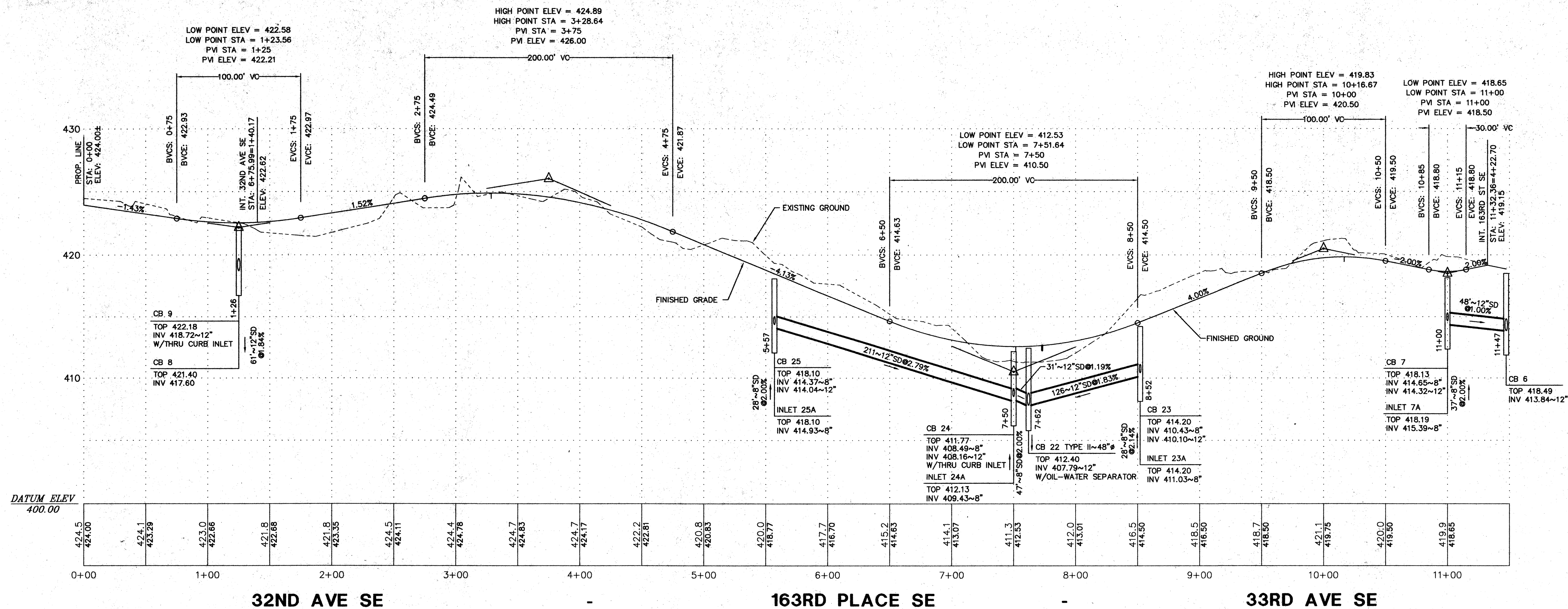
DATE	REVISION
7/16/96	PER SNO. CO. REVIEW COMMENTS
7/25/96	CITY OF MILL CREEK REVIEW COMMENTS
9/14/96	PER SNO. CO. REVIEW COMMENTS

OSTERGAARD • ROBINSON
 & ASSOC. INC. CONSULTING ENGINEERS
 3630 COLBY AVE.
 BELLEVUE, (206) 827-8854
 (206) 259-6445

DIVISION 7
 THE PARKS AT MILL CREEK
 COVER SHEET
 CITY OF MILL CREEK (SNO CO PFN 96-105442) WASHINGTON

HDEV-750

SEC 5, TWP 27N, RGE 5E, W.M.



SCALE: HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

DIVISION 7

THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE
CITY OF MILL CREEK WASHINGTON

Designed ME/KR
Checked
Drawn ME
Checked
As-built

Sheet 3 of 12

Job No. 93129



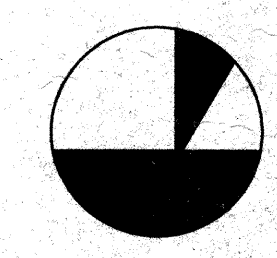
RECEIVED
8/21/96 SEP 19 1996
CITY OF MILL CREEK

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
David D. Ostergaard
CITY ENGINEER
DATE 9/18/96

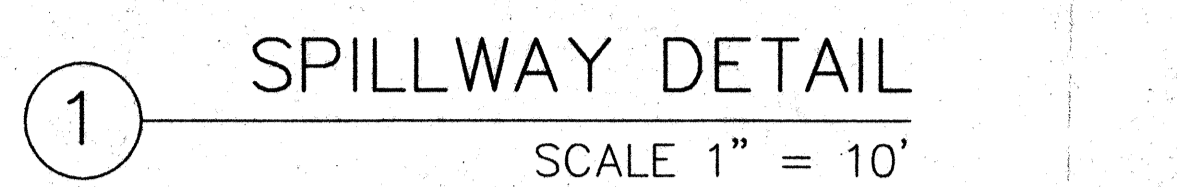
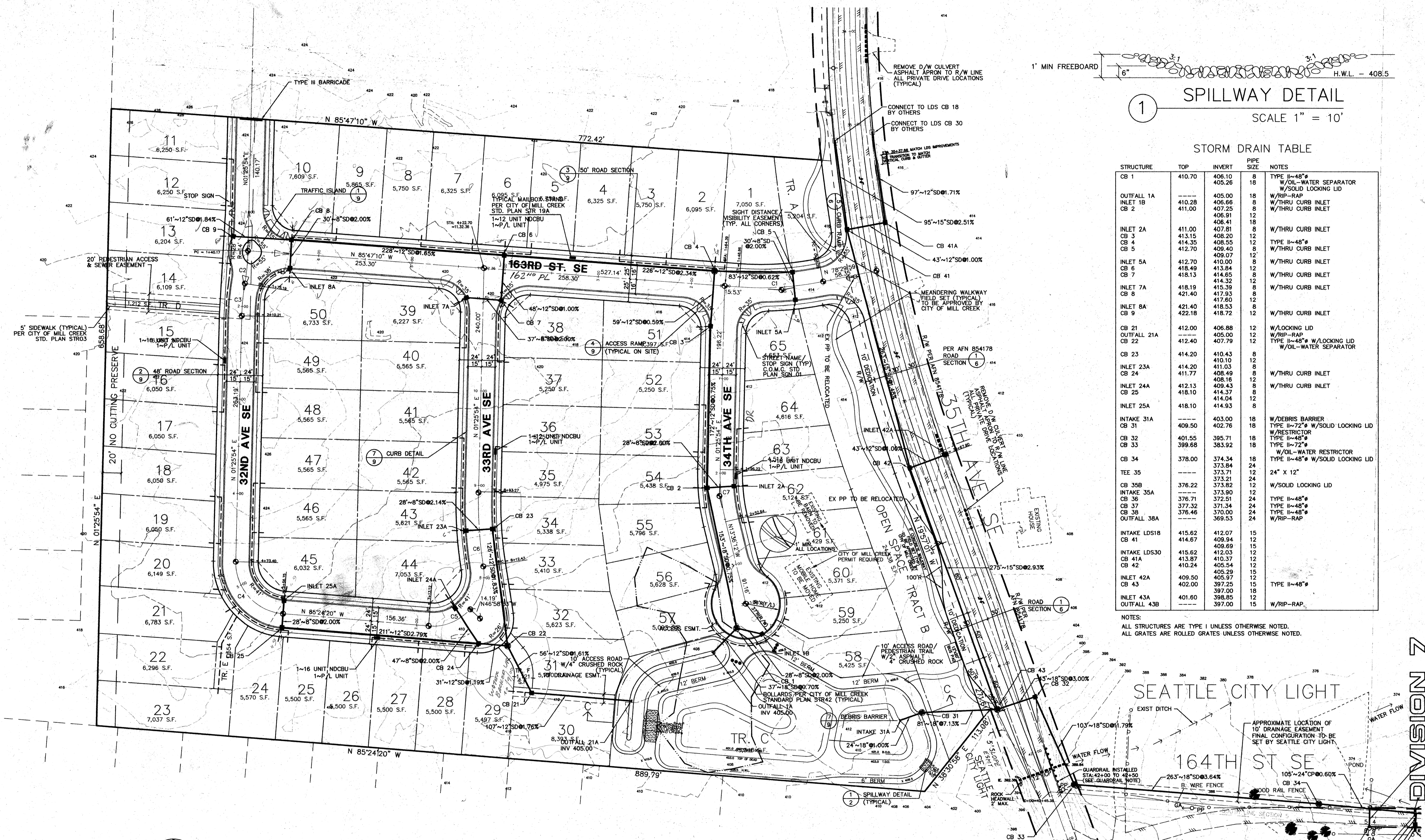
HDEV-751

DATE	REVISION	BY
7/16/96	PER SNO. CO. REVIEW COMMENTS	ME
7/19/96	REVISE POND & 34TH PER ALDERWOOD	ME
8/23/96	CITY OF MILL CREEK REVIEW COMMENTS	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE.
(206) 259-6445
EVERETT, WA 98201
BELLEVUE: (206) 827-5854



SEC 5, TWP 27N, RGE 5E, W.M.



STORM DRAIN TABLE

STRUCTURE	TOP	INVERT	PIPE SIZE	NOTES
CB 1	410.70	406.10	8"	TYPE II-48" W/OIL-WATER SEPARATOR W/SOLID LOCKING LID
OUTFALL 1A	---	405.00	18"	W/RIP-RAP
INLET 1B	410.28	406.66	8"	W/THRU CURB INLET
CB 2	411.00	407.25	8"	W/THRU CURB INLET
INLET 2A	411.00	406.41	8"	W/THRU CURB INLET
CB 3	413.15	408.20	12"	TYPE II-48"
CB 4	414.35	408.55	12"	W/THRU CURB INLET
CB 5	412.70	409.40	8"	W/THRU CURB INLET
INLET 5A	412.70	410.00	8"	W/THRU CURB INLET
CB 6	418.49	413.84	12"	W/THRU CURB INLET
CB 7	418.13	414.65	8"	W/THRU CURB INLET
INLET 7A	418.19	415.39	8"	W/THRU CURB INLET
CB 8	421.40	417.93	8"	W/THRU CURB INLET
INLET 8A	421.40	417.60	8"	W/THRU CURB INLET
CB 9	422.18	418.72	12"	W/THRU CURB INLET
CB 21	412.00	406.88	12"	W/LOCKING LID
OUTFALL 21A	---	405.00	12"	W/RIP-RAP
CB 22	412.40	407.79	12"	TYPE II-48" W/LOCKING LID W/OIL-WATER SEPARATOR
CB 23	414.20	410.43	8"	---
INLET 23A	414.20	411.03	8"	---
CB 24	411.77	408.49	8"	W/THRU CURB INLET
INLET 24A	412.13	408.16	8"	W/THRU CURB INLET
CB 25	418.10	414.37	8"	---
INLET 25A	418.10	414.93	8"	---
INTAKE 31A	---	403.00	18"	W/DEBRIS BARRIER
CB 31	409.50	402.76	18"	TYPE II-72" W/SOLID LOCKING LID W/RESTRICTOR
CB 32	401.55	395.71	18"	TYPE II-48"
CB 33	399.68	383.92	18"	TYPE II-72"
CB 34	378.00	374.34	18"	W/OIL-WATER RESTRICTOR TYPE II-48" W/SOLID LOCKING LID
TEE 35	---	373.71	12"	24" X 12"
CB 35B	376.22	373.21	24"	W/SOLID LOCKING LID
INTAKE 35A	---	373.82	12"	---
CB 36	376.71	372.51	24"	TYPE II-48"
CB 37	377.32	371.34	24"	TYPE II-48"
CB 38	378.46	370.00	24"	TYPE II-48"
OUTFALL 38A	---	369.53	24"	W/RIP-RAP
INLET LDS1B	415.62	412.07	15"	---
CB 41	414.67	409.94	12"	---
INLET LDS30	415.62	412.03	12"	---
CB 41A	413.87	410.37	12"	---
CB 42	410.24	405.54	12"	---
INLET 42A	409.50	405.97	12"	---
CB 43	402.00	397.25	15"	TYPE II-48"
INLET 43A	401.60	398.65	18"	---
OUTFALL 43B	---	397.00	15"	W/RIP-RAP

NOTES:
 ALL STRUCTURES ARE TYPE I UNLESS OTHERWISE NOTED.
 ALL GRATES ARE TYPICAL UNLESS OTHERWISE NOTED.

SCALE: 1" = 50'
 VERTICAL DATUM:
 N.A.V.D. 29
 BENCHMARK:
 RR SPIKE AT BASE OF P.P. LOCATED AT
 NW CORNER SEATTLE HILL ROAD & 35TH AVE SE
 ELEV = 419.82
 GRAPHIC SCALE
 (IN FEET)

LEGEND

- PROPOSED TYPE II CATCH BASIN SIZED AS SPECIFIED
- PROPOSED TYPE I CATCH BASIN OR INLET AS SPECIFIED
- EXISTING TYPE I CATCH BASIN OR INLET AS SPECIFIED
- ⊙ MONUMENT IN CASE
- ROOF DOWNSPOUT LINE
- SD STORM DRAIN

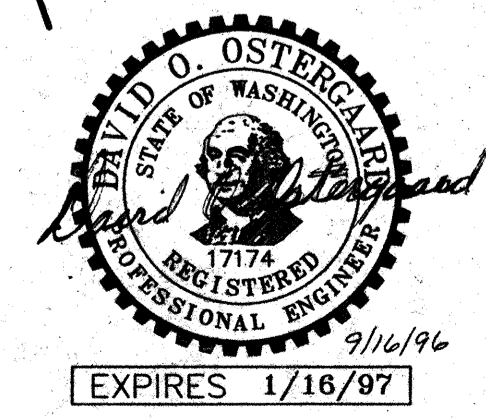
CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C1	330.00'	90.51'	15°42'51"
C2	244.87'	35.02'	08°11'39"
C3	244.87'	35.02'	08°11'39"
C4	55.00'	83.36'	86°50'14"
C5	55.00'	99.41'	103°33'33"
C6	450.00'	79.79'	10°09'33"
C7	215.00'	56.42'	15°02'08"

GUARDRAIL NOTES:
 GUARDRAIL INSTALLATIONS SHALL CONFORM TO WSDOT/APWA PLAN C-1, BEAM GUARDRAIL TYPE 1.
 END ANCHORS SHALL CONFORM TO WSDOT/APWA PLAN C-6, BEAM GUARDRAIL ANCHOR TYPE 1.

BOTHELL POST OFFICE
 10500 BEARDSLEE BLVD.
 BOTHELL, WA. 98011-9998
 ORIGINAL SIGNATURE ON FILE AT
 OSTERGAARD-ROBINSON & ASSOC. 2-1-96
 POSTMASTER: APPROVAL DATE

FOR 35TH AVE SE IMPROVEMENTS AND
 164TH ST SE STORM DRAINAGE IMPROVEMENTS
 Snohomish County Planning and Development Services
 APPROVED FOR CONSTRUCTION
 By: _____
 R/W permit number: _____



ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 SEP 19 1996
 CITY ENGINEER
 DATE

REVISION

DATE	BY	REVISION
7/16/96	ME	PER SNO. CO. REVIEW COMMENTS
7/19/96	ME	REVISE POND & 34TH PER ALDERWOOD
8/23/96	ME	CITY OF MILL CREEK REVIEW COMMENTS
9/7/96	ME	PER SEATTLE CITY LIGHT
9/16/96	ME	PER SNO. CO. REVIEW
9/16/96	ME	CITY OF MILL CREEK REVIEW COMMENTS

OSTERGAARD • ROBINSON
 & ASSOC. INC. CONSULTING ENGINEERS
 3630 COLBY AVE.
 BELLEVUE, WA 98001
 (206) 259-6445
 EVERETT, WA 98201
 BELLEVUE: (206) 827-5854

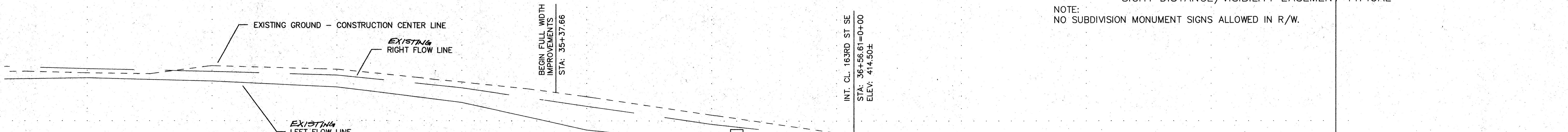
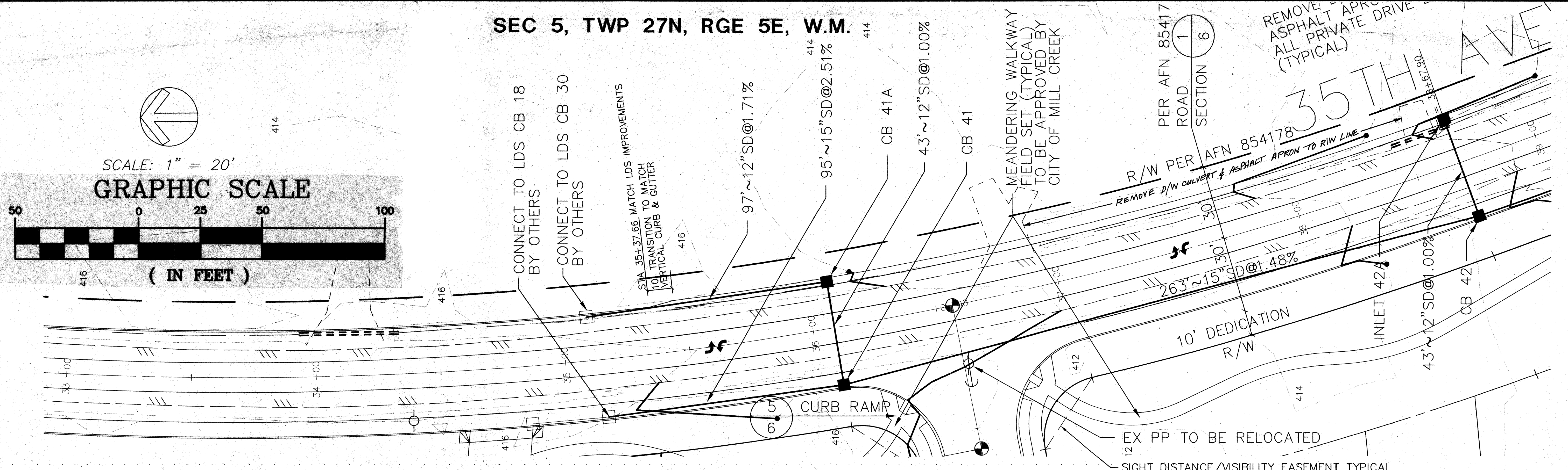
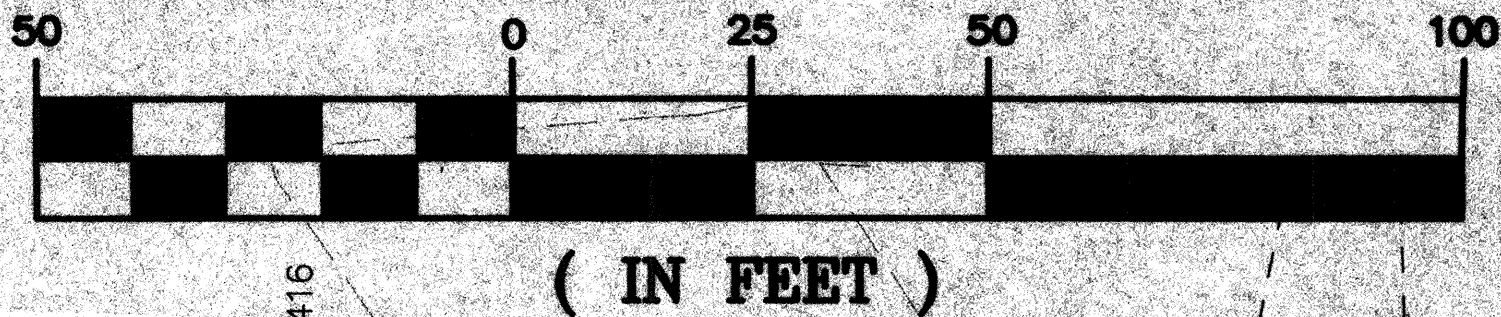
THE PARKS
 AT MILL CREEK
 ROAD + STORM DRAINAGE PLAN
 DIVISION 7
 CITY OF MILL CREEK

Designed KR/ME
 Checked _____
 Drawn ME
 Checked _____
 As-built _____
 Sheet 2 of 12
 Job No. 93129

HDEV-752

SEC 5, TWP 27N, RGE 5E, W.M.

SCALE: 1" = 20'
GRAPHIC SCALE



35TH AVE SE

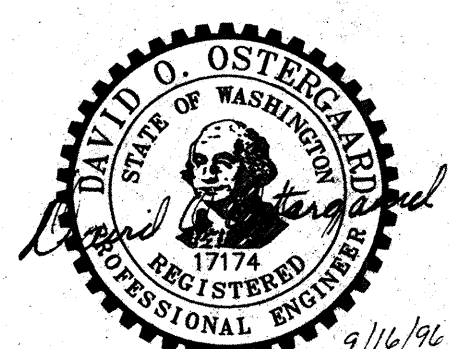
SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 2'

416.91	417.19	417.04	416.55	415.97	415.24	414.53	413.87	413.35	412.43	411.10	
CONSTRUCTION CENTER LINE		34+00		35+00		36+00		37+00		38+00	
416.72	416.59	416.35	415.74	414.64	414.14	413.27	412.70	412.22	411.32	410.10	
LEFT FLOW LINE		34+00		35+00		36+00		37+00		38+00	
417.07	416.96	416.82	416.32	415.59	414.87	414.35	413.72	413.20	412.26	410.87	
RIGHT FLOW LINE		34+00		35+00		36+00		37+00		38+00	

MATCH LINE

SHEET 5/12

DIVISION 7



EXPIRES 1/16/97 RECEIVED
CITY OF MILL CREEK
FOR 35TH AVE SE IMPROVEMENTS AND
164TH ST SE STORM DRAINAGE IMPROVEMENTS
Snohomish County Planning and Development Services
APPROVED FOR CONSTRUCTION
By _____
R/W permit number: _____

HDEV-753

DATE	REVISION
7/16/96	PER SNO. CO. REVIEW COMMENTS
9/1/96	PER SNO. CO. REVIEW COMMENTS
9/16/96	CITY OF MILL CREEK REVIEW COMMENTS

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1 EVERETT, WA 98201
(206) 259-8445 BELLEVUE: (206) 827-5854

THE PARKS AT MILL CREEK
FRONTAGE IMPROVEMENTS
CITY OF MILL CREEK WASHINGTON

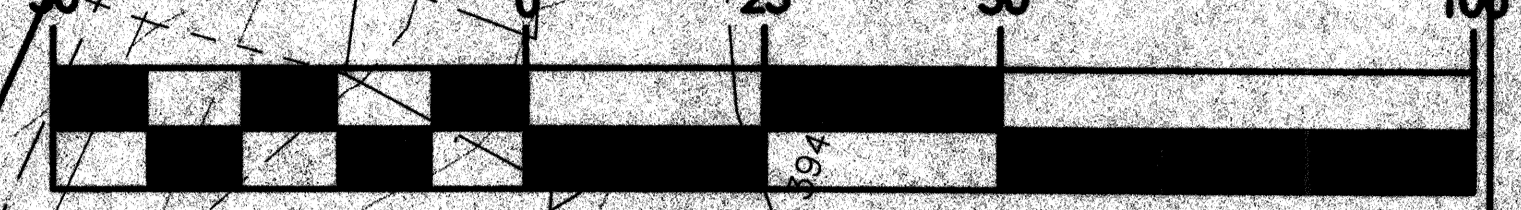
Designed ME
Checked _____
Drawn ME
Checked _____
As-built _____

Sheet 4 of 12

Job No. 93129

SEC 5, TWP 27N, RGE 5E, W.M.

GRAPHIC SCALE



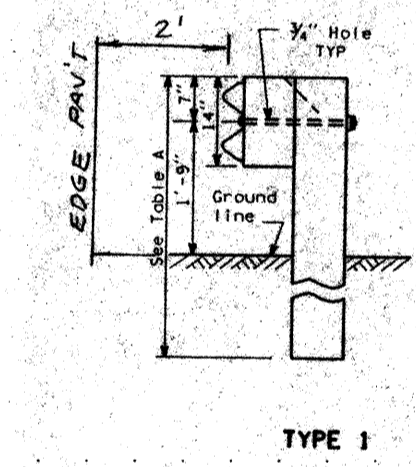
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SCALE: 1" = 20'

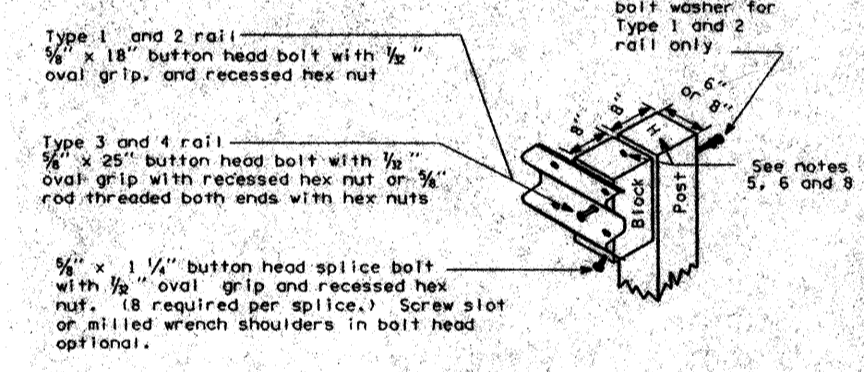
35TH AVE SE

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 2'

GUARDRAIL NOTES:
GUARDRAIL INSTALLATIONS SHALL CONFORM TO WSDOT/APWA PLAN C-1, BEAM GUARDRAIL TYPE 1.
END ANCHORS SHALL CONFORM TO WSDOT/APWA PLAN C-6, BEAM GUARDRAIL ANCHOR TYPE 1.

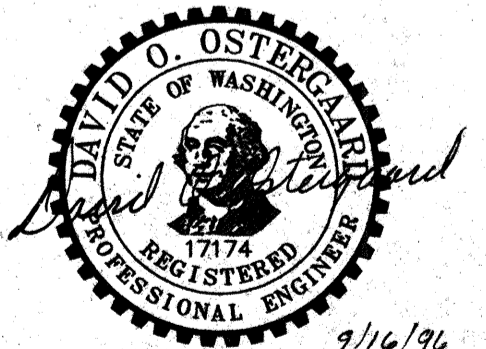


TYPE 1



WOOD POST ASSEMBLY DETAILS

TABLE A			
GUARDRAIL TYPE	WOOD POSTS AUGER AND BACKFILL	STEEL POSTS AUGER AND BACKFILL	DRIVEN
1	6'	1'	6'
2, 3 and 4	6'	1'	6'



RECEIVED 7/16/96
EXPIRES 1/16/97

SFP 1 9 1996

CITY OF MILL CREEK

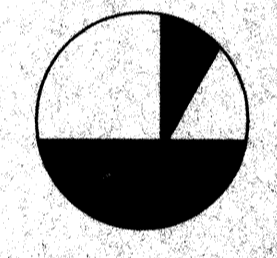
FOR 35TH AVE SE IMPROVEMENTS AND 164TH ST SE STORM DRAINAGE IMPROVEMENTS

Snohomish County Planning and Development Services
APPROVED FOR CONSTRUCTION
By: _____
R/W permit number: _____

HDEV-754

DATE	REVISION	BY
7/16/96	PER SNO. CO. REVIEW COMMENTS	ME
8/23/96	CITY OF MILL CREEK REVIEW COMMENTS	ME
8/26/96	PER SEATTLE CITY LIGHT	ME
9/17/96	PER SNO. CO. REVIEW	ME
9/16/96	CITY OF MILL CREEK REVIEW COMMENTS	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1
EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5884



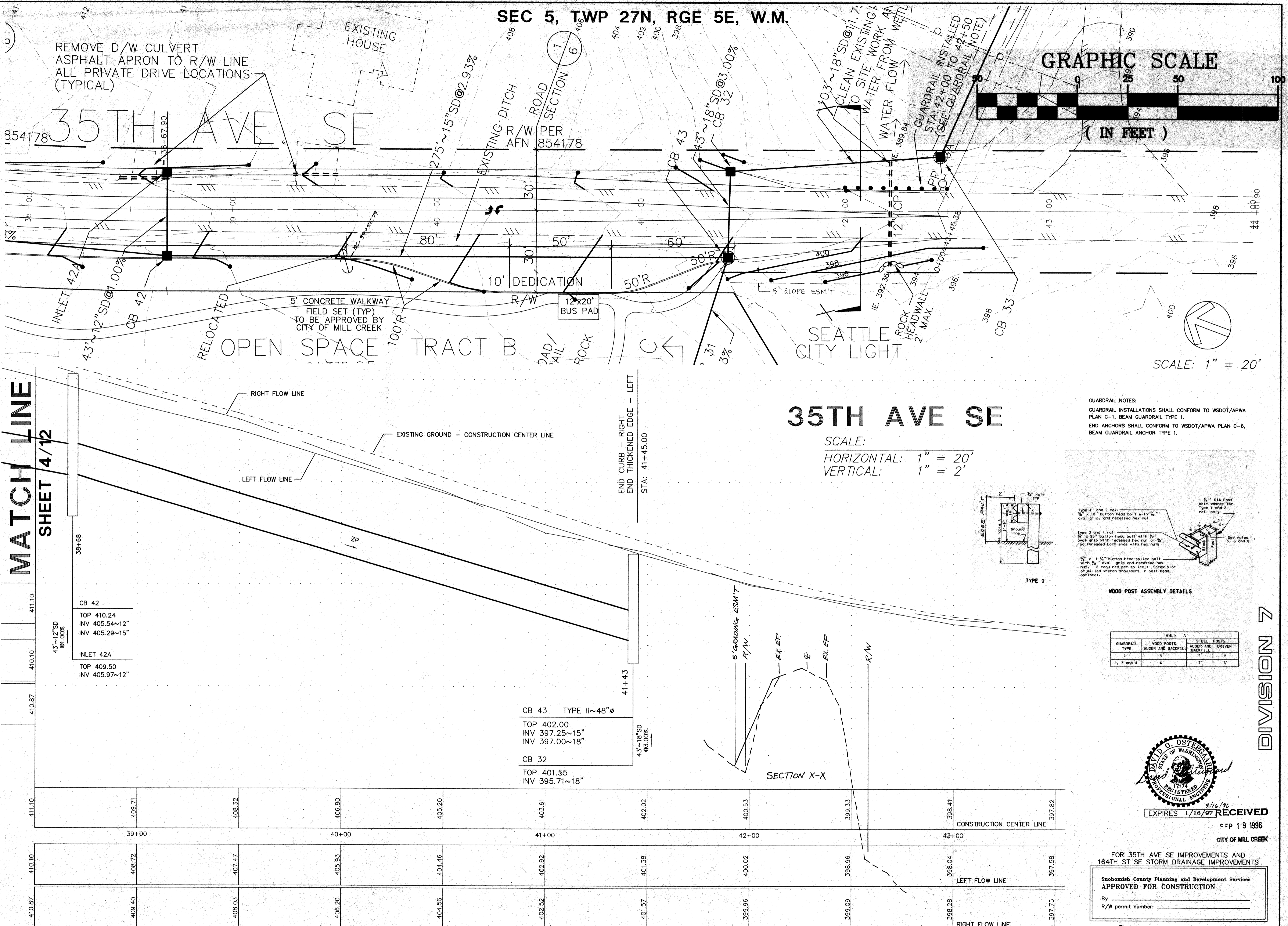
THE PARKS AT MILL CREEK
FRONTAGE IMPROVEMENTS
WASHINGTON
CITY OF MILL CREEK

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 5 of 12

Job No. 93129

DIVISION 7



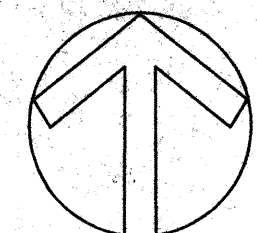
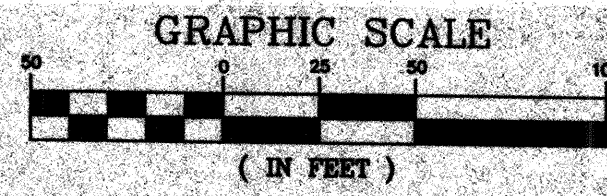
MATCH LINE SHEET 4/12

CB 42
TOP 410.24
INV 405.54~12"
INV 405.29~15"
INLET 42A
TOP 409.50
INV 405.97~12"

CB 43 TYPE II~48"φ
TOP 402.00
INV 397.25~15"
INV 397.00~18"
CB 32
TOP 401.55
INV 395.71~18"

410.87	409.40	408.03	406.20	404.56	402.52	401.57	399.96	398.28	397.75	RIGHT FLOW LINE
410.10	408.72	407.47	405.93	404.46	402.92	401.38	400.02	398.04	397.58	LEFT FLOW LINE
411.10	409.71	408.32	406.80	405.20	403.61	402.02	400.53	398.41	397.82	CONSTRUCTION CENTER LINE
39+00	40+00	41+00	42+00	43+00						

SEC 5, TWP 27N, RGE 5E, W.M.

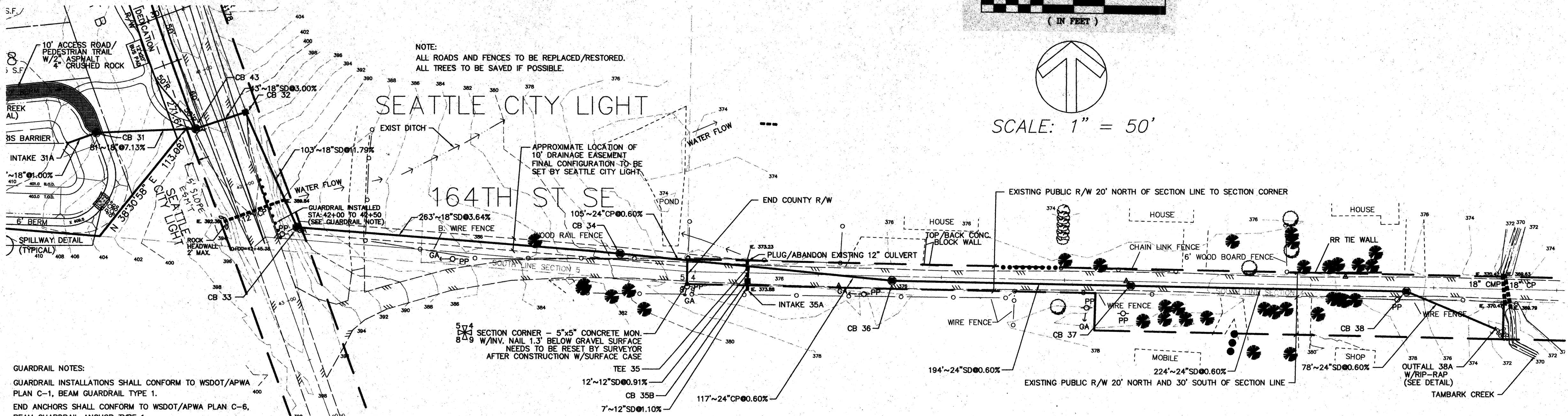


SCALE: 1" = 50'

STORM DRAIN TABLE

STRUCTURE	TOP	INVERT	PIPE SIZE	NOTES
INTAKE 31A	---	403.00	18	W/DEBRIS BARRIER
CB 31	409.50	402.76	18	TYPE II-72" W/SOLID LOCKING LID W/RESTRICTOR
CB 43	402.00	397.25	15	TYPE II-48"
CB 32	401.55	395.71	18	TYPE II-48"
CB 33	399.68	383.92	18	TYPE II-72" W/OIL-WATER SEP.
CB 34	378.00	374.34	18	TYPE II-48" W/SOLID LOCKING LID
TEE 35	---	373.84	24	---
CB 35B	---	373.71	12	24" X 12"
INTAKE 35A	376.22	373.21	24	---
CB 36	376.71	372.51	24	TYPE II-48"
CB 37	377.32	371.34	24	TYPE II-48"
CB 38	376.46	370.00	24	TYPE II-48"
OUTFALL 38A	---	368.53	24	W/RIP-RAP

NOTES:
ALL STRUCTURES ARE TYPE I UNLESS OTHERWISE NOTED.
ALL GRATES ARE ROLLED GRATES UNLESS OTHERWISE NOTED.

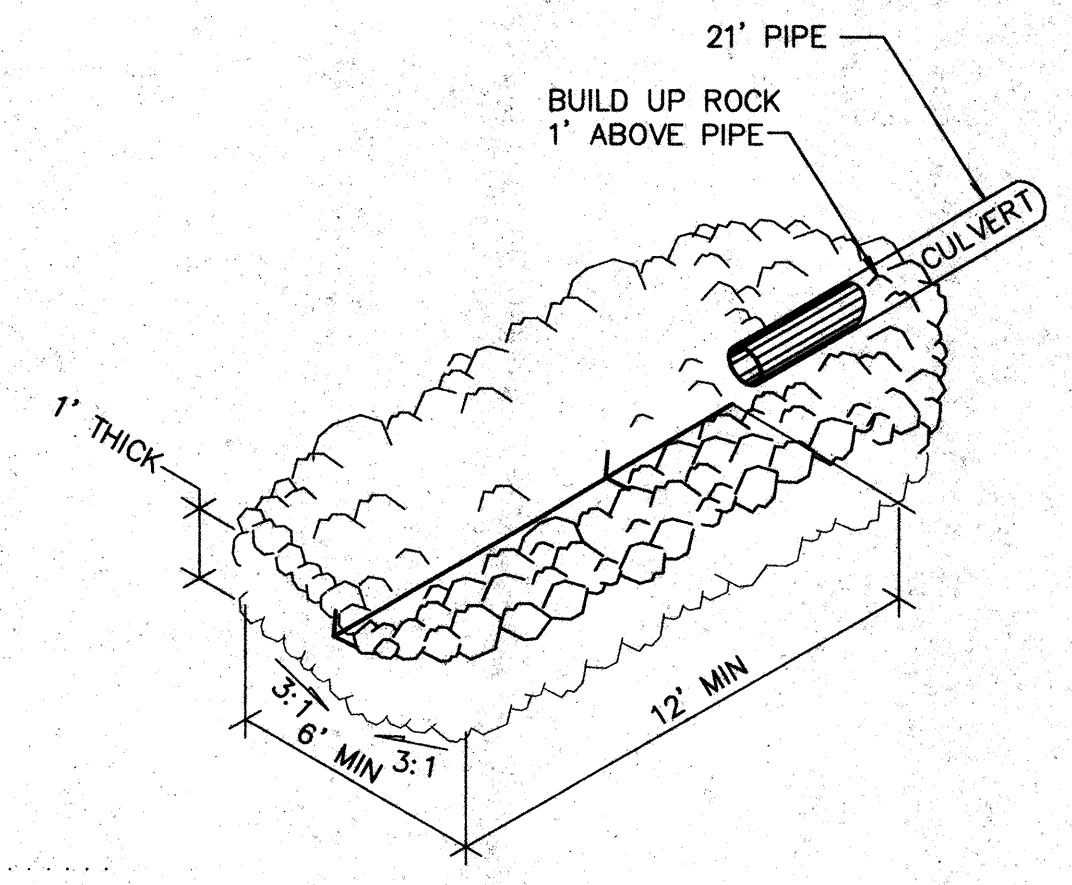


GUARDRAIL NOTES:
GUARDRAIL INSTALLATIONS SHALL CONFORM TO WSDOT/APWA PLAN C-1, BEAM GUARDRAIL TYPE 1.
END ANCHORS SHALL CONFORM TO WSDOT/APWA PLAN C-6, BEAM GUARDRAIL ANCHOR TYPE 1.

NOTE:
ALL ROADS AND FENCES TO BE REPLACED/RESTORED.
ALL TREES TO BE SAVED IF POSSIBLE.

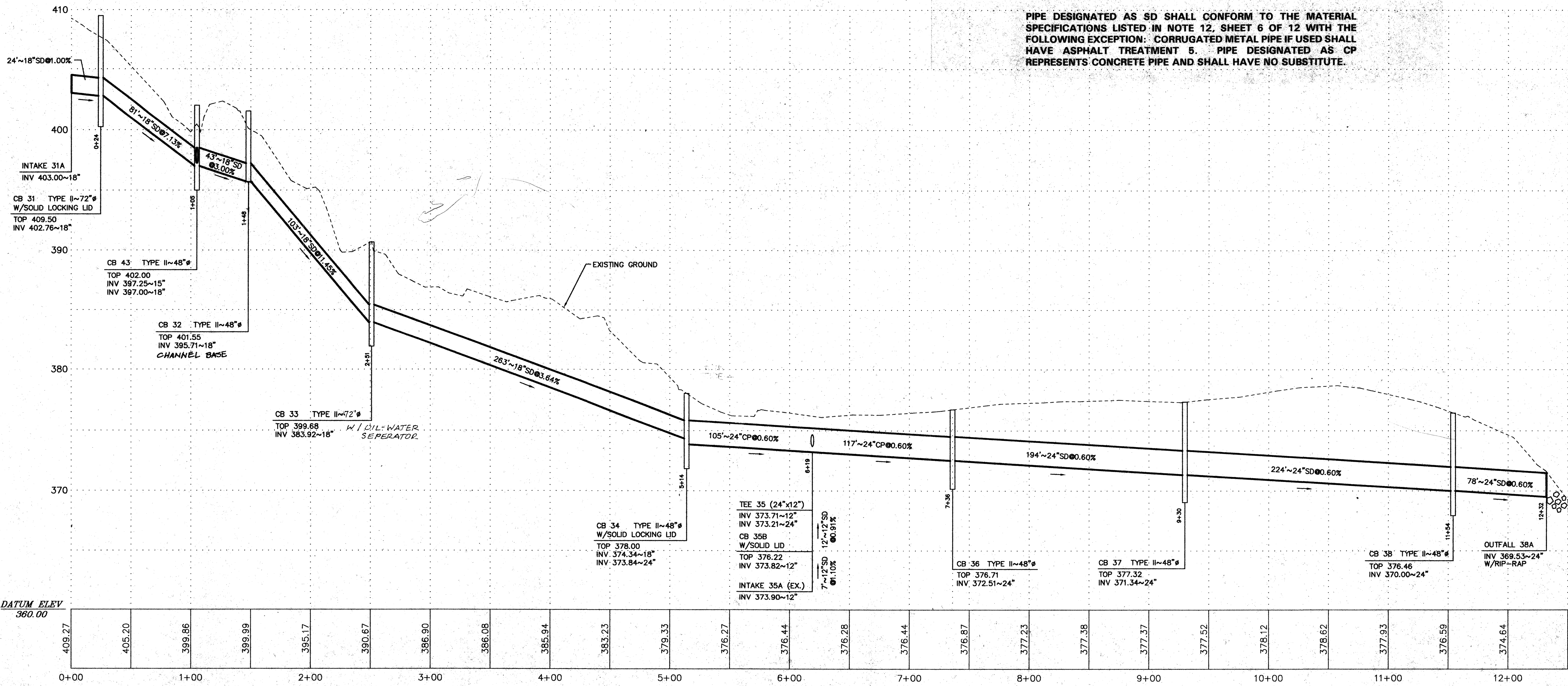
NOTE: MAINTAIN ONE THROUGH LANE OPEN DURING CONSTRUCTION.

PIPE DESIGNATED AS SD SHALL CONFORM TO THE MATERIAL SPECIFICATIONS LISTED IN NOTE 12, SHEET 6 OF 12 WITH THE FOLLOWING EXCEPTION: CORRUGATED METAL PIPE IF USED SHALL HAVE ASPHALT TREATMENT 5. PIPE DESIGNATED AS CP REPRESENTS CONCRETE PIPE AND SHALL HAVE NO SUBSTITUTE.



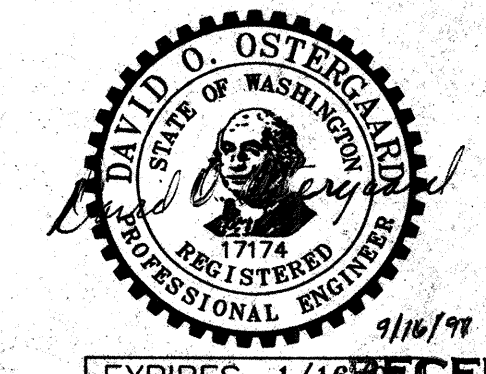
OUTFALL 38A
RIP-RAP DETAIL
N.T.S.

RIP-RAP TO BE REASONABLE WELL GRADED WITH ROCK GRADATION AS FOLLOWS:
MAXIMUM STONE SIZE 24" (NOMINAL DIAMETER)
MEDIAN STONE SIZE 16"
MINIMUM STONE SIZE 4"



DOWN STREAM - 164TH ST SE

SCALE: HORIZ 1" = 50'
VERT 1" = 5'



RECEIVED
EXPIRES 1/16/99
CITY OF MILL CREEK

FOR 35TH AVE SE IMPROVEMENTS AND 164TH ST SE STORM DRAINAGE IMPROVEMENTS
Snohomish County Planning and Development Services
APPROVED FOR CONSTRUCTION

By: _____
R/W permit number: _____

DATE	REVISION	BY	ME
7/16/96	PER SNO. CO. REVIEW COMMENTS	ME	ME
7/26/96	PER CLIENT REQUEST	ME	ME
8/23/96	CITY OF MILL CREEK REVIEW COMMENTS	ME	ME
9/1/96	PER SNO. CO. REVIEW COMMENTS	ME	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE, (206) 827-5894

DIVISION 7
THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE
164TH ST IMPROVEMENTS
CITY OF MILL CREEK WASHINGTON

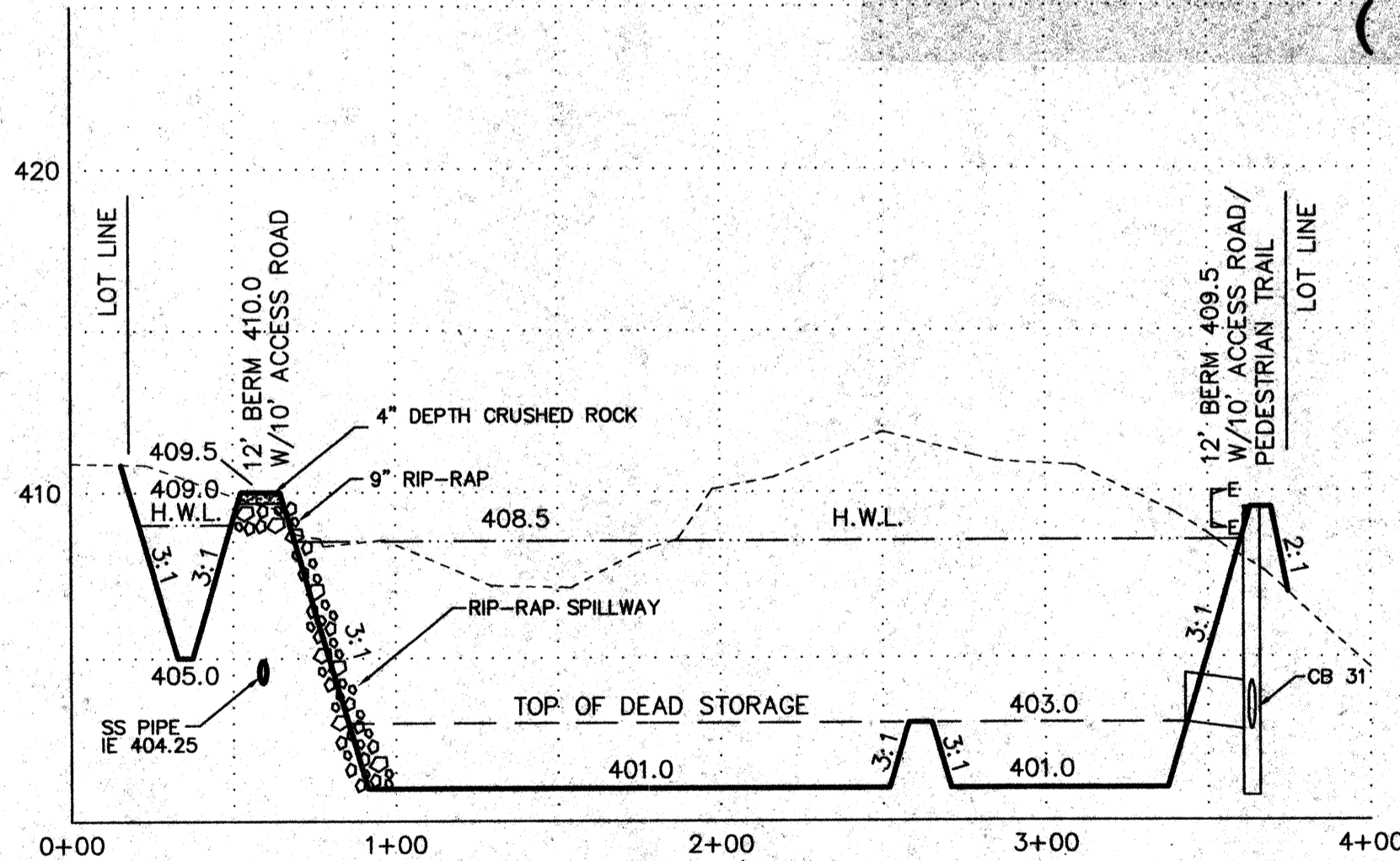
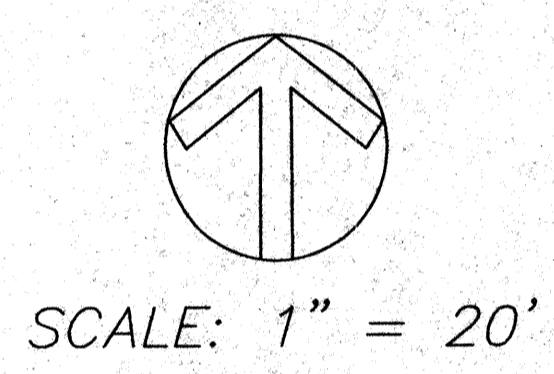
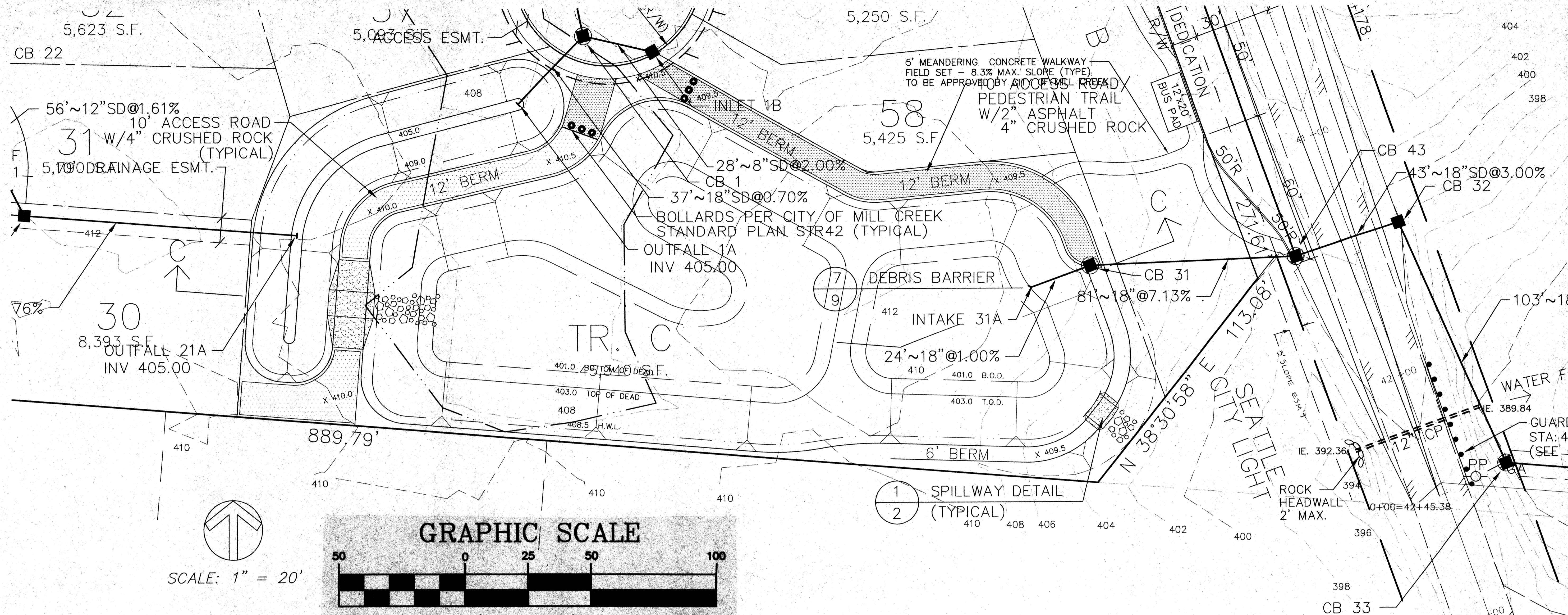
Designed ME	Checked
Drawn ME	Checked
As-built	

Sheet 7 of 12

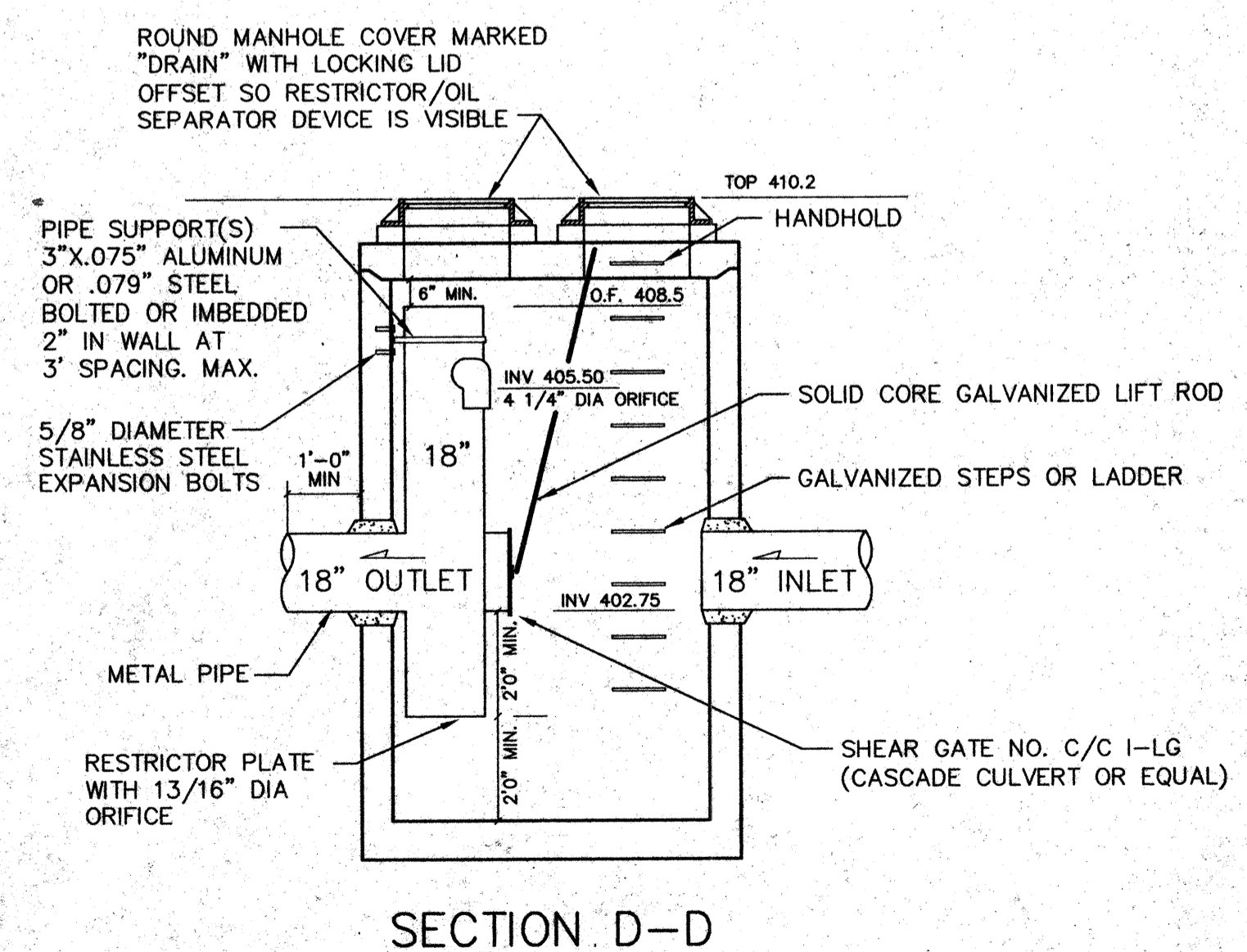
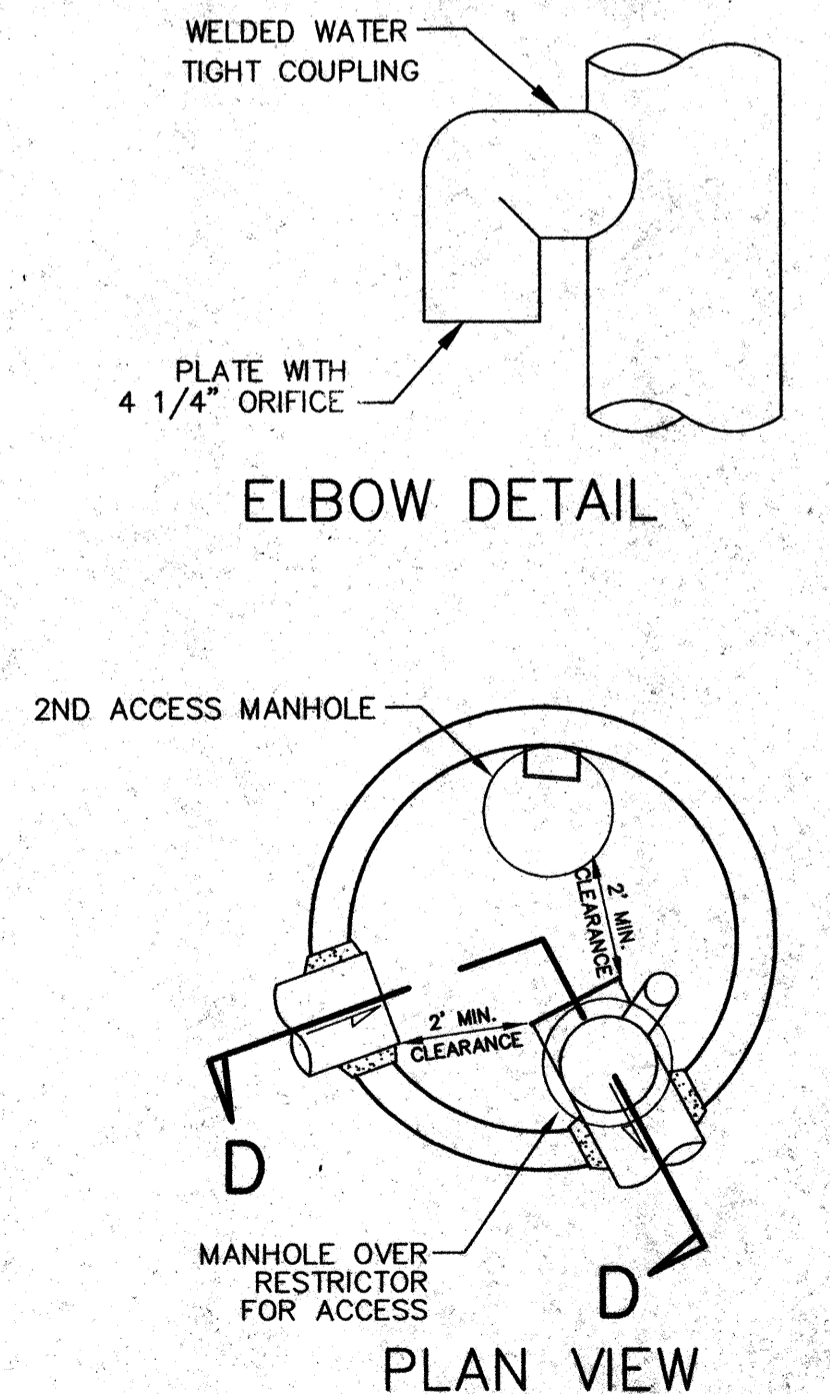
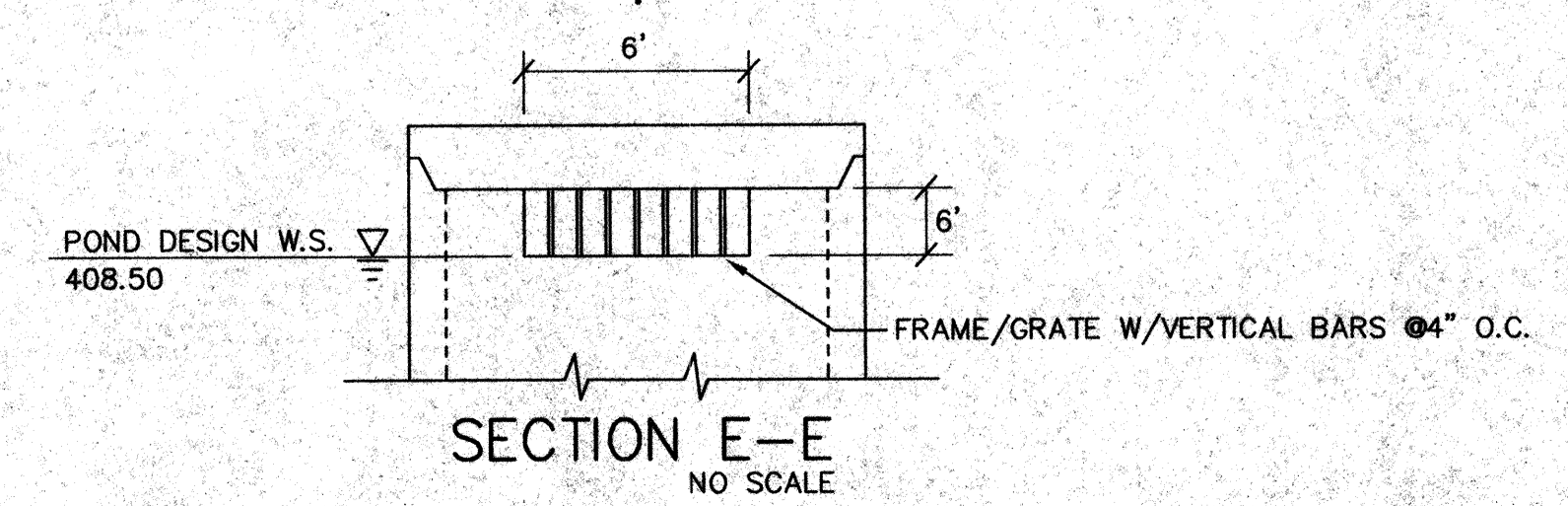
Job No. 93129

HDEV-756

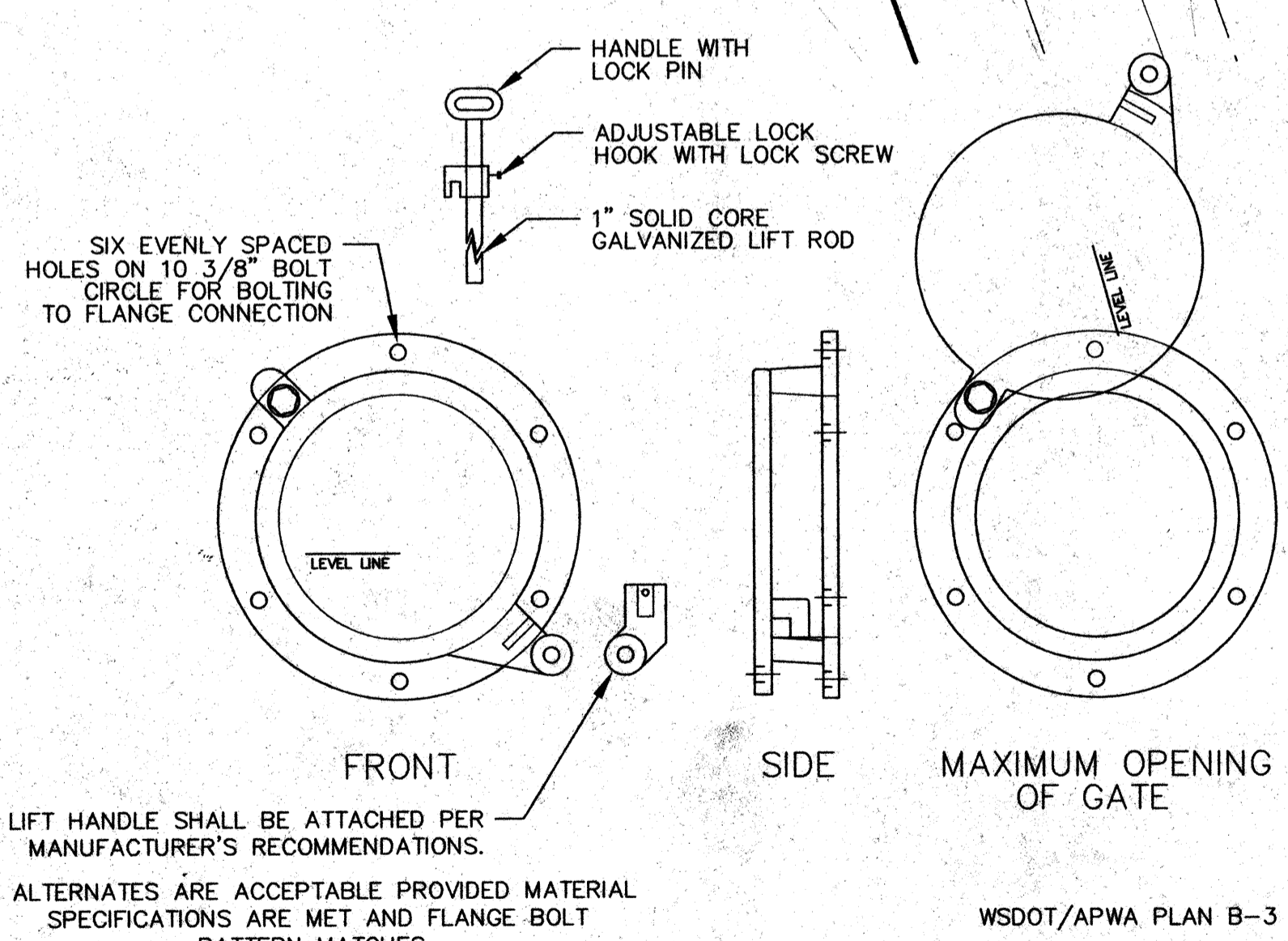
SEC 5, TWP 27N, RGE 5E, W.M.



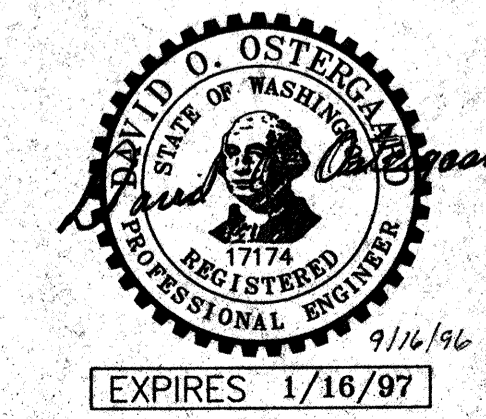
CROSS SECTION C-C POND
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



1 CB 31 TYPE II - 72" - W/RESTRICTOR
SCALE: 1" = 3'



2 CLEANOUT/SHEAR GATE
NO SCALE
RECEIVED
SEP 19 1996
CITY OF MILL CREEK



ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
C. Ostergaard 9/16/96
CITY ENGINEER DATE

DATE	REVISION	BY
7/16/96	PER SNO. CO. REVIEW COMMENTS	ME
8/23/96	CITY OF MILL CREEK REVIEW COMMENTS	ME
8/27/96	PER SEATTLE CITY LIGHT	ME
9/7/96	PER SNO. CO. REVIEW	ME
9/16/96	CITY OF MILL CREEK REVIEW COMMENTS	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3680 COLBY AVE.
(206) 259-6445
EVERETT, WA 98201
BELLEVUE: (206) 627-5654

DIVISION 7
THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE
POND PLAN + DETAILS
WASHINGTON
CITY OF MILL CREEK

Designed	ME
Checked	
Drawn	ME
Checked	
As-built	

Sheet 8 of 12
Job No. 93129

HDEV-757

SEC 5, TWP 27N, RGE 5E, W.M.

GENERAL PLAN NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14)C COMPACTING EARTH EMBANKMENTS METHOD B.
- DISTURBED SOIL SHALL BE GRASS SEEDING IF NOT WORKED WITHIN 30 DAYS.

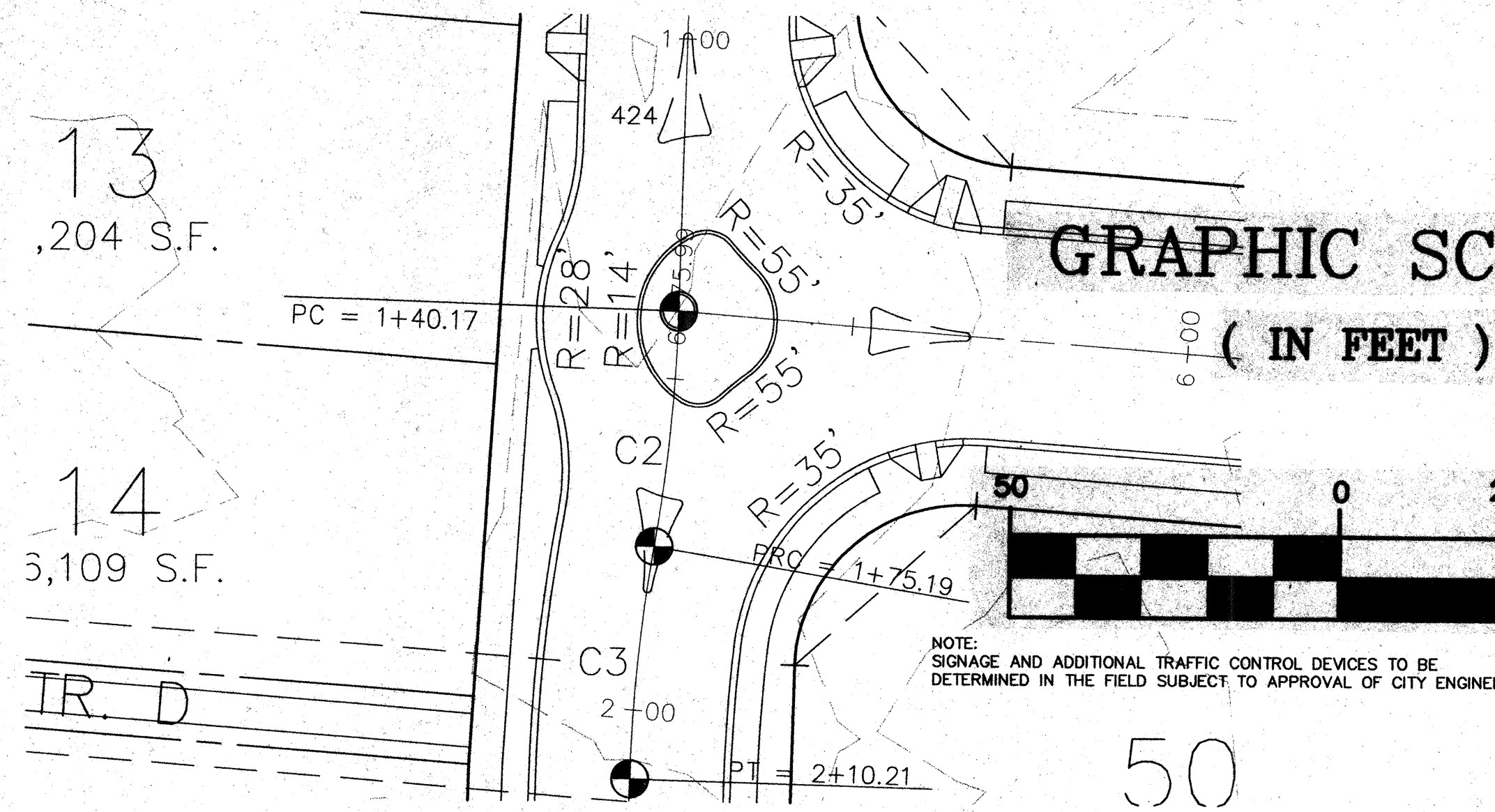
STORM DRAINAGE NOTES

- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
- THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6", MAXIMUM DEPTH 8", THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO SPECIFICATION 2-03.3(14)C, METHOD b & c.
- ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
- ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
- ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
- CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435 OR 5435A. MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. ALL SHALL BE VANE GRATE EXCEPT AT THRU CURB WHICH SHALL BE HERRINGBONE.
- PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND OR BEHIND SIDEWALK DRAINS AS REQUIRED. STUB OUTS SHALL BE MARKED WITH A 2" X 4" AND LABELED "STORM."
- STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
- PIPE SPECIFICATIONS: PIPE MATERIAL, JOINTS AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9.05 AND AASHTO AND ASTM DESIGNATIONS AS NOTED BELOW.
MATERIALS ALLOWED FOR STORM DRAIN LINES:
- PLAIN CONCRETE PIPE
- REINFORCED CONCRETE PIPE
- ALUMINUM SPIRAL RIB PIPE

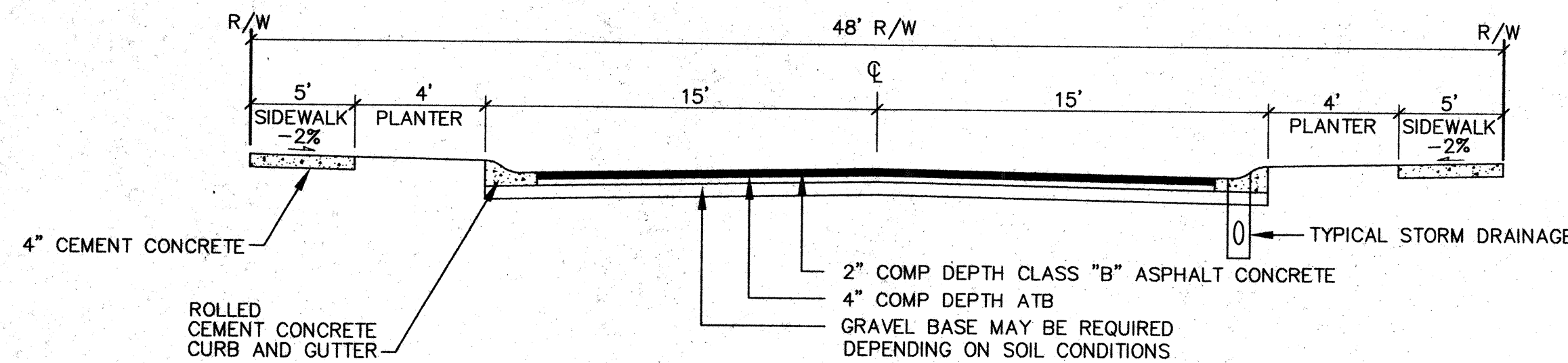
ALLOWABLE JOINTS:
- CONCRETE PIPE SHALL BE RUBBER GASKETED
- SPIRAL RIB PIPE SHALL BE "HAT BANDED" WITH NEOPRENE GASKETS

CONSTRUCTION SEQUENCE

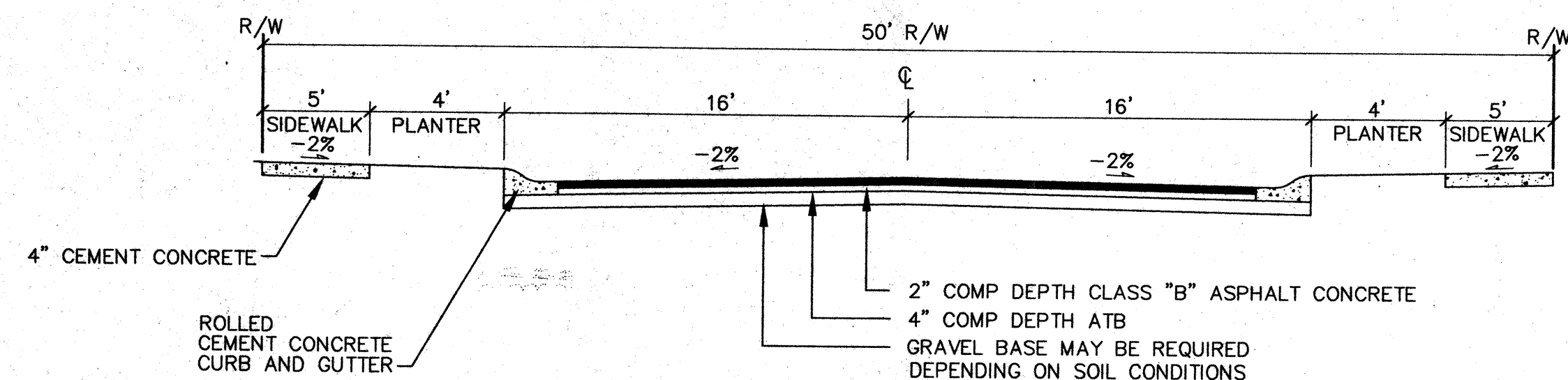
- ATTEND PRE-CONSTRUCTION MEETING (INCLUDING EXCAVATION CONTRACTOR).
- INSTALL SILT FENCES AND BARRIER FENCES WHERE SPECIFIED.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE.
- FLAG CLEARING LIMITS. CALL CITY FOR INSPECTION AND APPROVAL.
- CLEAR FOR AND INSTALL SEDIMENT TRAPS, INTERCEPTOR DITCHES AND CHECK DAMS.
- CLEAR AND GRADE ON-SITE AREAS AS INDICATED.
- CONSTRUCT PERMANENT STORM DRAINAGE SYSTEM AND UTILITIES AND PROVIDE C.B. PROTECTION.
- FINAL GRADE/PAVEMENT.
- HYDROSEED AND MULCH ALL EXPOSED AREAS.
- FLUSH STORM DRAINAGE SYSTEM.
- MAINTAIN TEMPORARY FACILITIES THROUGH THE COURSE ON CONSTRUCTION UNTIL SITE IS STABILIZED AND POTENTIAL FOR EROSION HAS PASSED.



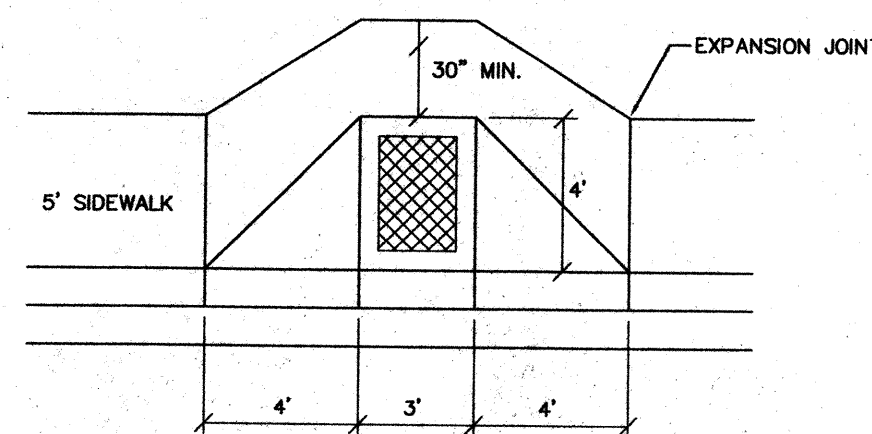
1 TRAFFIC ISLAND DETAIL
(32ND AVE SE & 163RD ST SE) 1" = 20'



2 TYPICAL 48' ROAD SECTION - ON-SITE
(32ND AVE SE, 33RD AVE SE & 34TH AVE SE) NO SCALE



3 TYPICAL 50' ROAD SECTION - ON-SITE
(163RD ST SE & 32ND AVE SE) NO SCALE

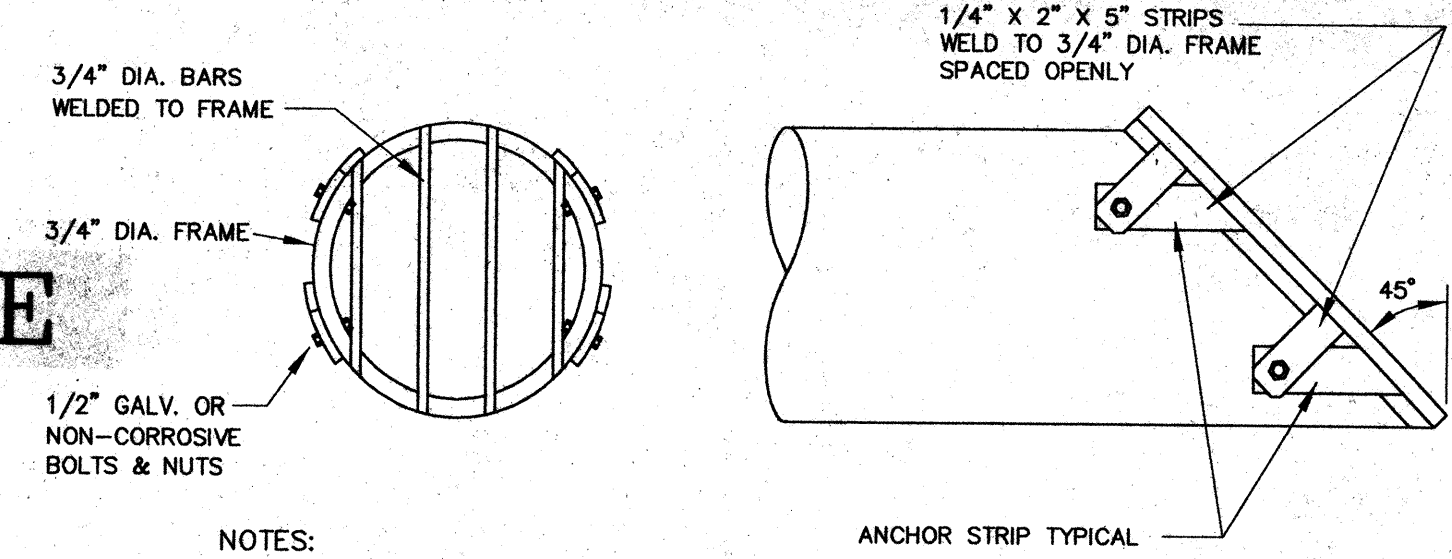
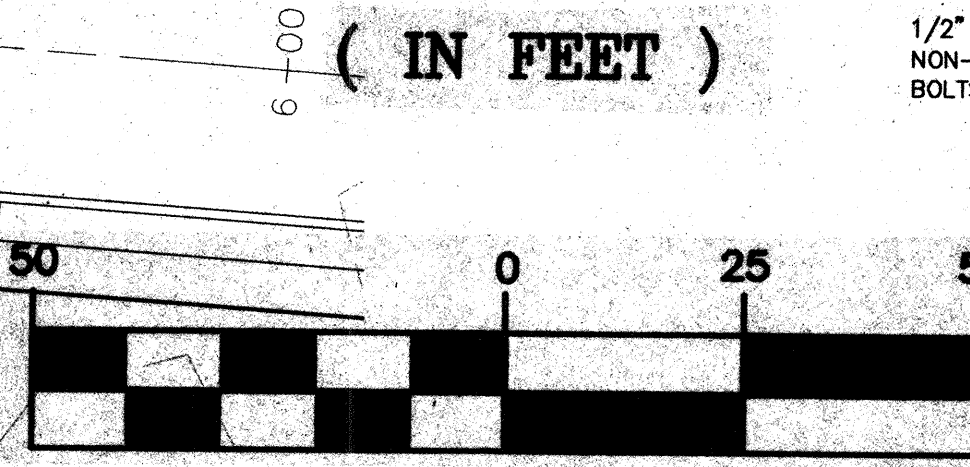


4 ACCESS RAMP - SIDEWALK END
ONSITE (MILL CREEK) NO SCALE

NOTES:

- TEXTURE PATTERN SHALL NOT EXCEED 1/2 INCH SPACING AT 1/16" DEPTH.
- ADVANCE WARNING SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER.
- ALL SURFACES TO BE BROOMED FINISHED WITH TOOLED JOINTS AND EDGES.
- CURB SHALL BE POURED SEPARATELY FROM RAMP POUR. MONOLITHIC POUR (CURB & RAMP) IS NOT ALLOWED.
- RAMP AT CURB SHALL BE 1/2" ABOVE GUTTER FLOW LINE.

GRAPHIC SCALE (IN FEET)



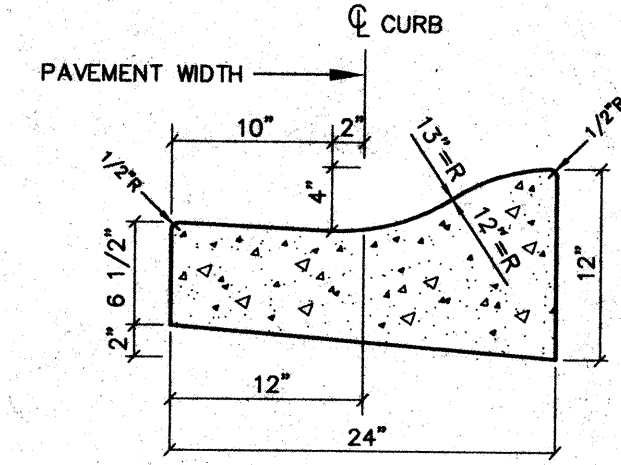
NOTES:

- ALL STEEL PARTS SHALL BE GALVANIZED AND ASPHALT COATED WITH TREATMENT 1 OR BETTER.
- FRONT GATE FRAME SHALL BE REMOVABLE.
- SPACING BETWEEN GRATE BARS SHALL NOT EXCEED 3 INCHES C/C.
- ALL FIELD WELDS SHALL BE FIELD GALVANIZED.

5 TYPICAL DEBRIS BARRIER NO SCALE

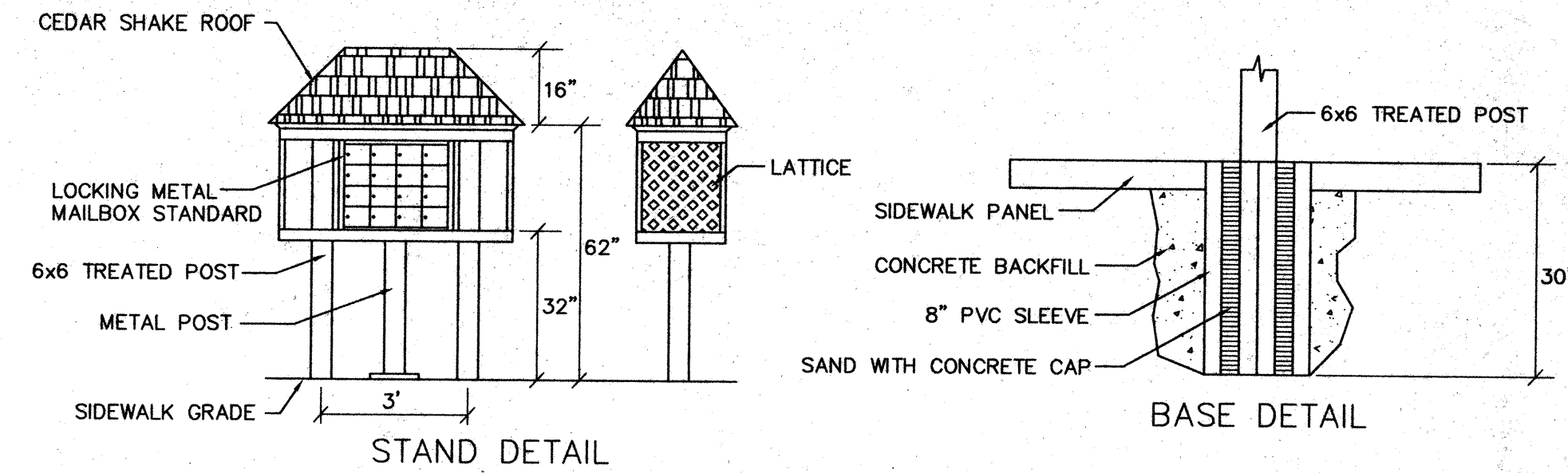
NOTES:

- CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
- ALL CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 3000.
- FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
- FULL DEPTH EXPANSION JOINTS CONSISTING OF 3/8 INCH MINIMUM PREMOULDED JOINT MATERIAL SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 20 FEET.
- CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOULDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
- ALL JOINTS SHALL BE CLEAN AND EDGED.
- FINISH SHALL BE LIGHT BROOM FINISH.
- FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.



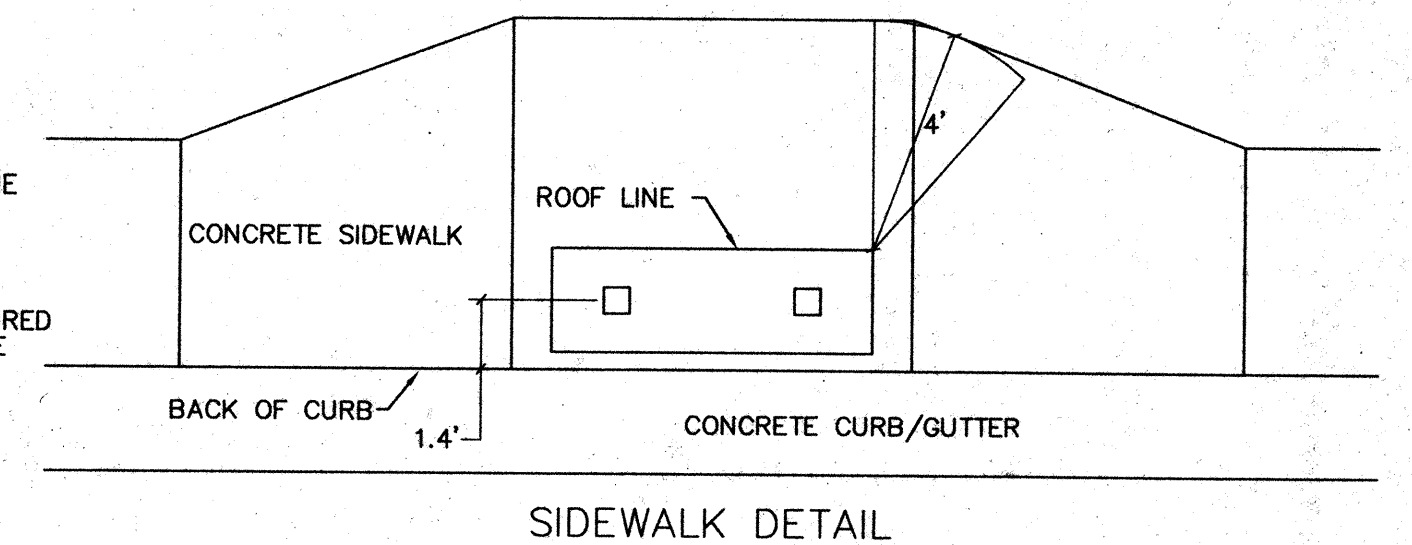
6 CEMENT CONCRETE ROLLED CURB AND GUTTER

6 CURB DETAILS NO SCALE

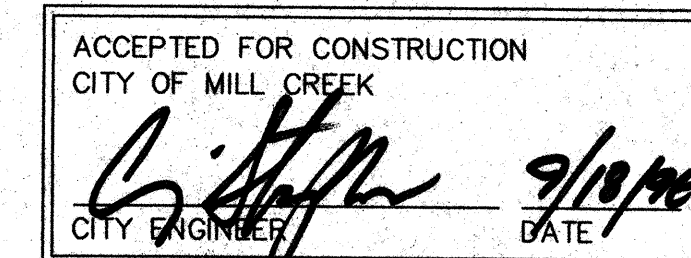
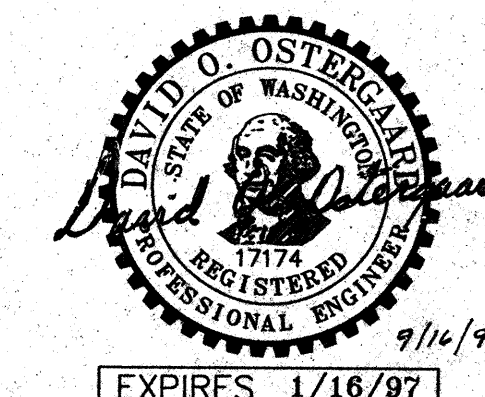


NOTES:

- MAILBOX SHALL BE APPROVED BY THE U.S. POST OFFICE.
- ALL BOXES SHALL BE LOCK TYPE.
- METAL PEDESTAL MAY NOT BE REQUIRED BY THE CITY. WOOD PEDESTALS ARE REQUIRED ON ALL STANDS.



7 TYPICAL LOCKING MAILBOX STAND (NDCBU) NO SCALE



RECEIVED
SEP 19 1996
CITY OF MILL CREEK

BY	ME
REVISION	ME
DATE	ME
7/16/96	PER SNO. CO. REVIEW COMMENTS
8/23/96	CITY OF MILL CREEK REVIEW COMMENTS
9/16/96	CITY OF MILL CREEK REVIEW COMMENTS

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3680 COLBY AVE. EVERETT, WA 98201
(206) 259-6446 BELLEVUE: (206) 827-5854

DIVISION 7
AT THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE
DETAILS + NOTES
CITY OF MILL CREEK

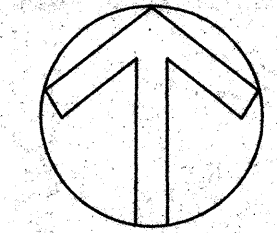
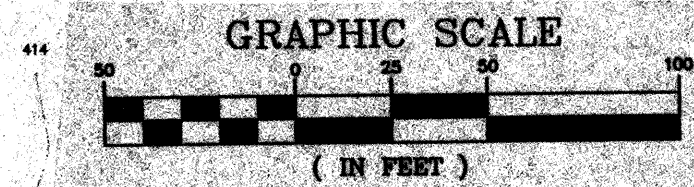
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Sheet 9 of 12

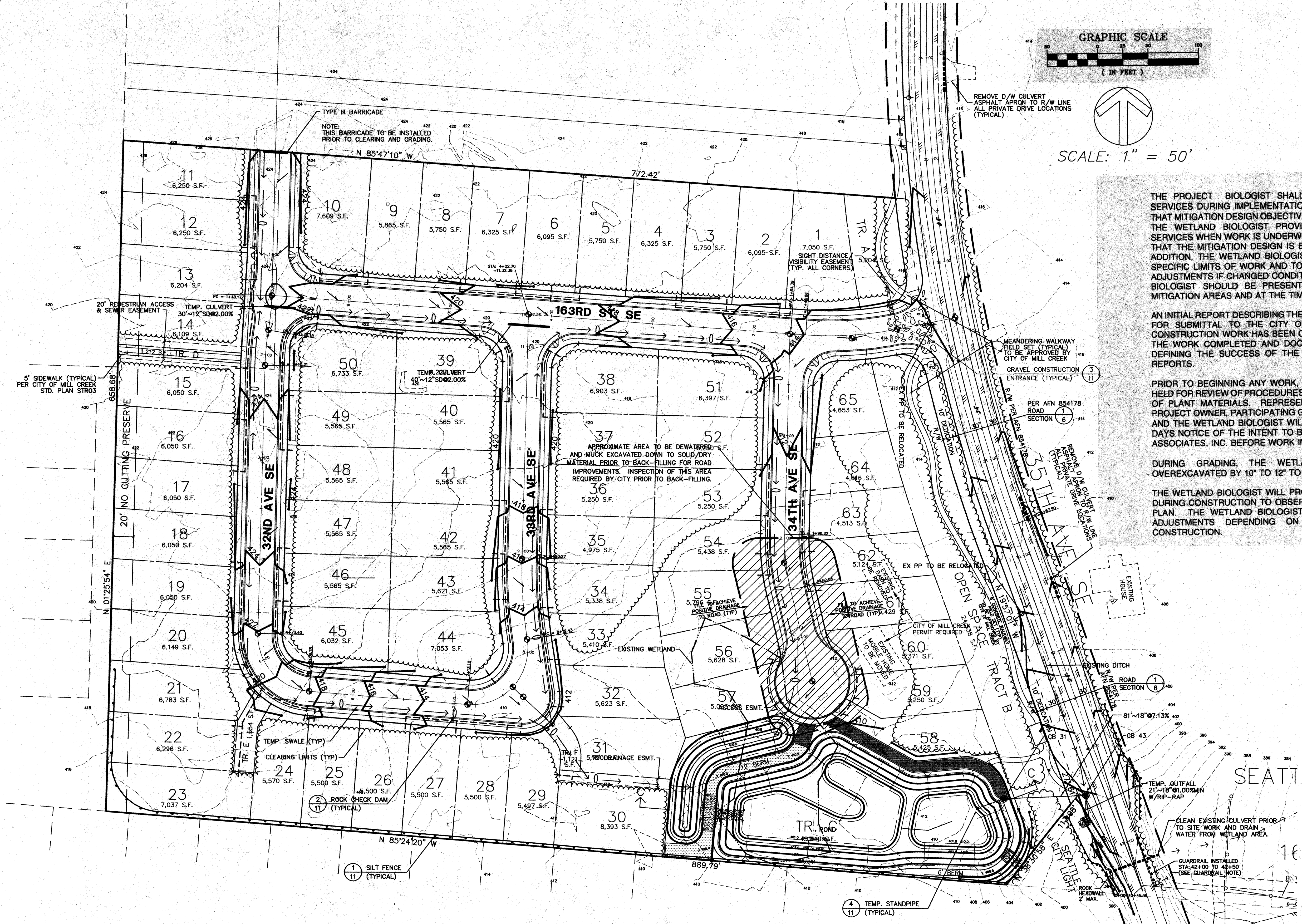
Job No. 93129

HDEV-758

SEC 5, TWP 27N, RGE 5E, W.M.



SCALE: 1" = 50'



THE PROJECT BIOLOGIST SHALL PROVIDE CONSTRUCTION INSPECTION SERVICES DURING IMPLEMENTATION OF THE MITIGATION PLAN TO ENSURE THAT MITIGATION DESIGN OBJECTIVES ARE BEING MET. IT IS IMPORTANT THAT THE WETLAND BIOLOGIST PROVIDE OBSERVATION AND CONSULTATION SERVICES WHEN WORK IS UNDERWAY WITHIN MITIGATION AREAS TO ENSURE THAT THE MITIGATION DESIGN IS BEING APPROPRIATELY INTERPRETED. IN ADDITION, THE WETLAND BIOLOGIST WILL BE AVAILABLE TO IDENTIFY THE SPECIFIC LIMITS OF WORK AND TO PROVIDE CONSULTATION AND SUGGEST ADJUSTMENTS IF CHANGED CONDITIONS ARE ENCOUNTERED. THE PROJECT BIOLOGIST SHOULD BE PRESENT DURING GRADING WORK WITHIN THE MITIGATION AREAS AND AT THE TIME OF PLANTING.

AN INITIAL REPORT DESCRIBING THE AS-BUILT CONDITIONS WILL BE PREPARED FOR SUBMITTAL TO THE CITY OF MILL CREEK WITHIN 30 DAYS AFTER CONSTRUCTION WORK HAS BEEN COMPLETED. THIS REPORT WILL IDENTIFY THE WORK COMPLETED AND DOCUMENT THE BASELINE CONDITIONS FOR DEFINING THE SUCCESS OF THE PROJECT IN SUBSEQUENT MONITORING REPORTS.

PRIOR TO BEGINNING ANY WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD FOR REVIEW OF PROCEDURES, PROJECT SCHEDULING AND AVAILABILITY OF PLANT MATERIALS. REPRESENTATIVES OF THE CITY OF MILL CREEK, PROJECT OWNER, PARTICIPATING GENERAL AND LANDSCAPE CONTRACTORS, AND THE WETLAND BIOLOGIST WILL ATTEND THIS MEETING. AT LEAST TWO DAYS NOTICE OF THE INTENT TO BEGIN WORK SHOULD BE GIVEN TO TERRA ASSOCIATES, INC. BEFORE WORK IN THE WETLAND AREAS IS BEGUN.

DURING GRADING, THE WETLAND MITIGATION AREA SHOULD BE OVEREXCAVATED BY 10" TO 12" TO ALLOW FOR REPLACEMENT OF TOPSOIL.

THE WETLAND BIOLOGIST WILL PROVIDE PERIODIC OBSERVATION SERVICES DURING CONSTRUCTION TO OBSERVE IMPLEMENTATION OF THE MITIGATION PLAN. THE WETLAND BIOLOGIST WILL BE AVAILABLE TO MAKE DESIGN ADJUSTMENTS DEPENDING ON CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

- LEGEND**
- CLEARING LIMITS
 - SILT FENCE
 - FINISHED GRADE CONTOUR
 - TEMPORARY SWALE W/ROCK CHECK DAM
 - ROCK
 - DEWATERED/EXCAVATED AREA

- NOTES:**
1. ALL TEMPORARY PONDS TO BE FIELD LOCATED WITH APPROVAL OF CITY.
 2. CLEARING LIMITS TO BE FENCED AND FIELD APPROVED BY PUBLIC WORKS PRIOR TO ANY COMMENCEMENT OF WORK.
 3. TEMPORARY SEDIMENT POND MUST BE CONSTRUCTED DURING ROAD GRADING.

DATE	REVISION
7/16/96	PER SNO. CO. REVIEW COMMENTS
7/29/96	CITY OF MILL CREEK REVIEW COMMENTS
8/23/96	CITY OF MILL CREEK REVIEW COMMENTS
9/1/96	PER SNO. CO. REVIEW
9/16/96	CITY OF MILL CREEK REVIEW COMMENTS

ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
 3705 COLBY AVE. #1
 EVERETT, WA 98201
 (206) 259-6445
 BELLEVUE: (206) 827-5854

THE PARKS AT MILL CREEK
 GRADING + TESCOP PLAN
 CITY OF MILL CREEK
 DIVISION 7

RECEIVED
 9/16/96
 SEP 19 1996
 CITY OF MILL CREEK

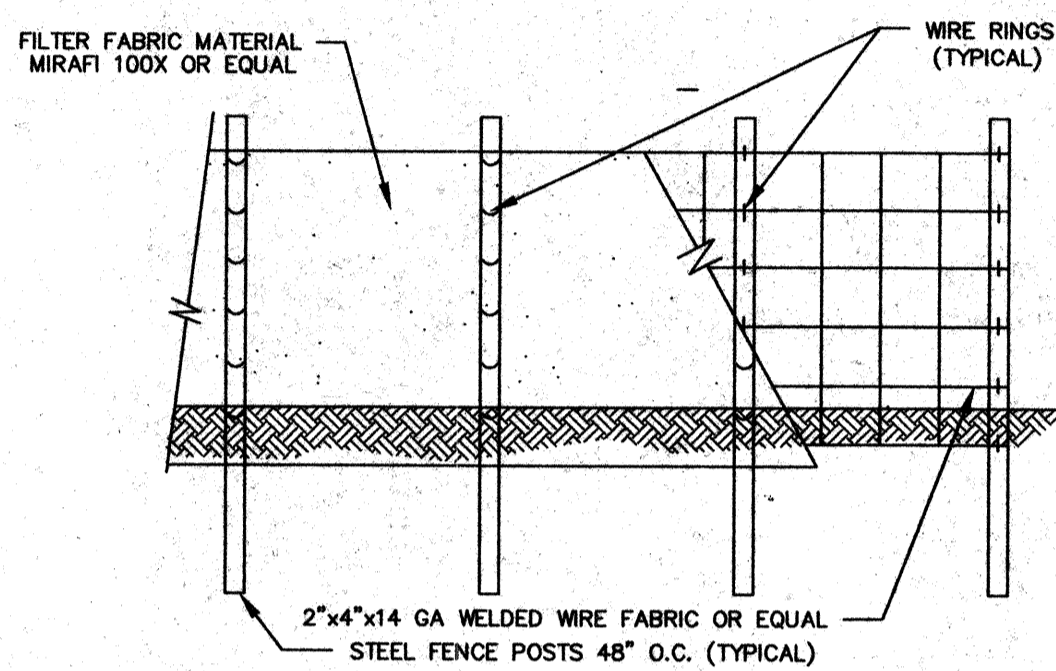
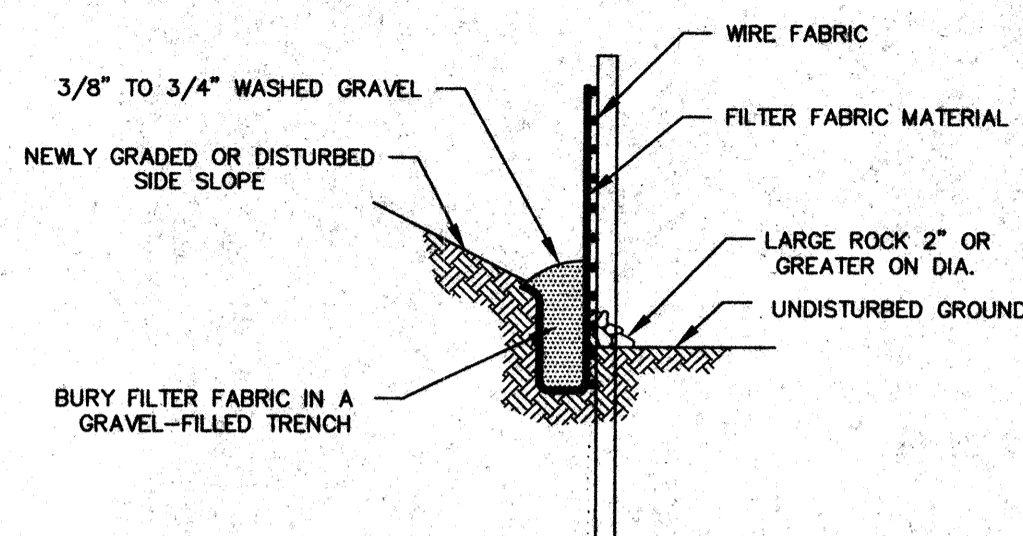
ACCEPTED FOR CONSTRUCTION
 CITY OF MILL CREEK
 [Signature]
 CITY ENGINEER DATE 9/16/96

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Checked	ME
Drawn	ME
Checked	ME
As-built	ME

Sheet 10 of 12

Job No. 93129

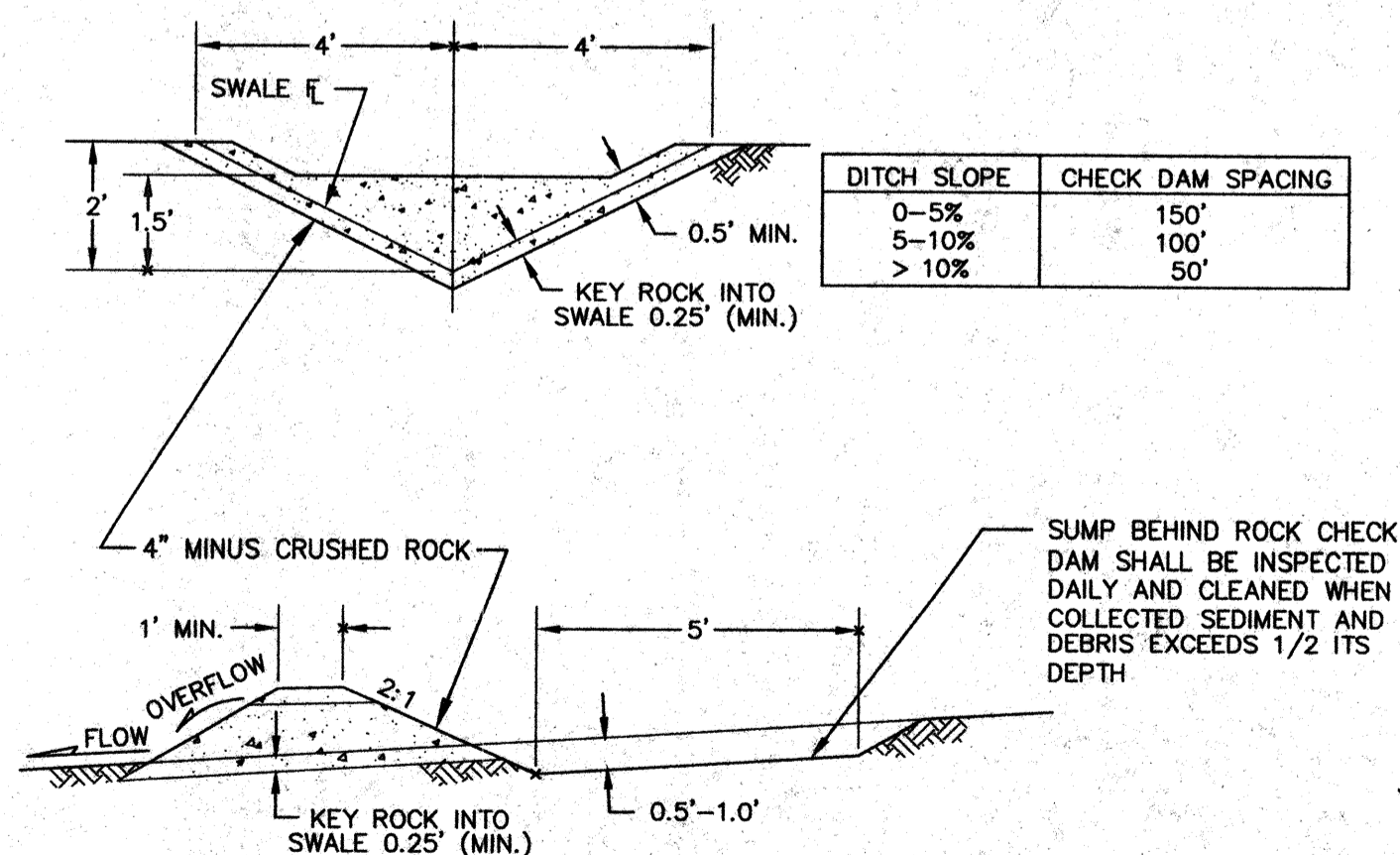
HDEV-759



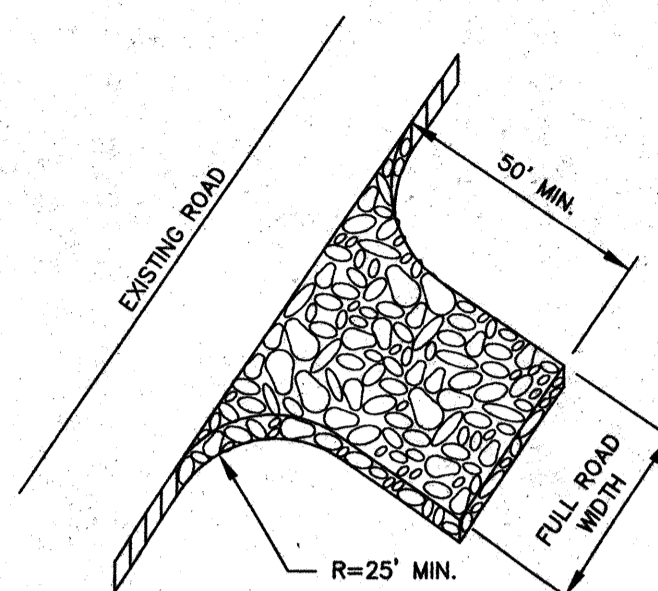
1 SILT FENCE DETAIL
NO SCALE

MAINTENANCE OF SILTATION BARRIERS

- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



2 ROCK CHECK DAM DETAILS
NO SCALE

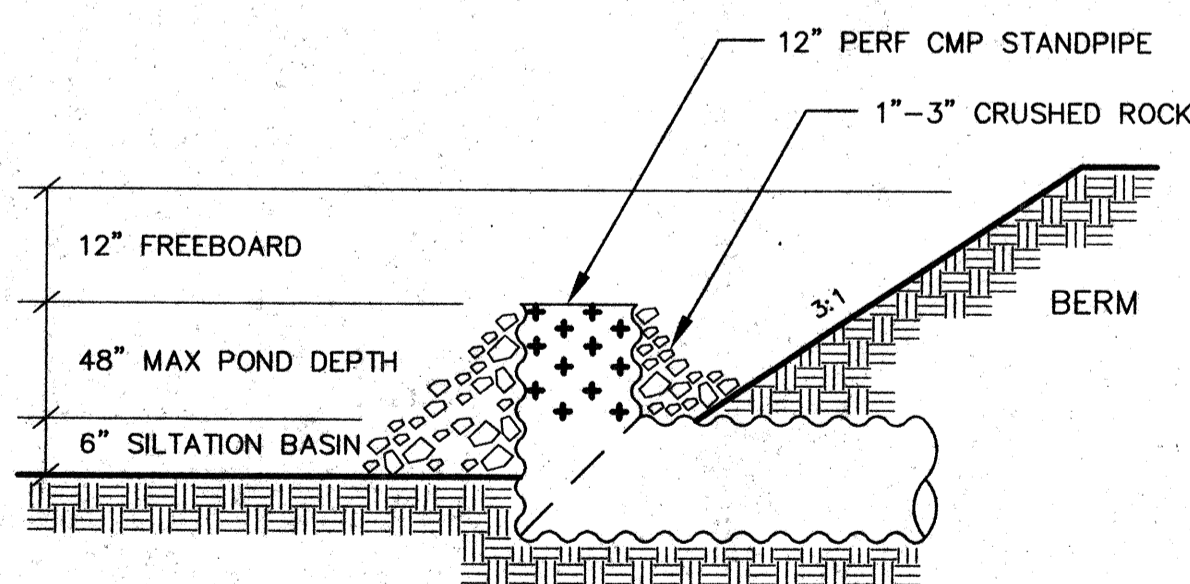


3 GRAVEL CONSTRUCTION ENTRANCE
NO SCALE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

- INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK
- ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
- WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD TO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

4 TEMP. STANDPIPE DETAIL
NO SCALE



SITE GRADING AND T.E.S.C.P. NOTES

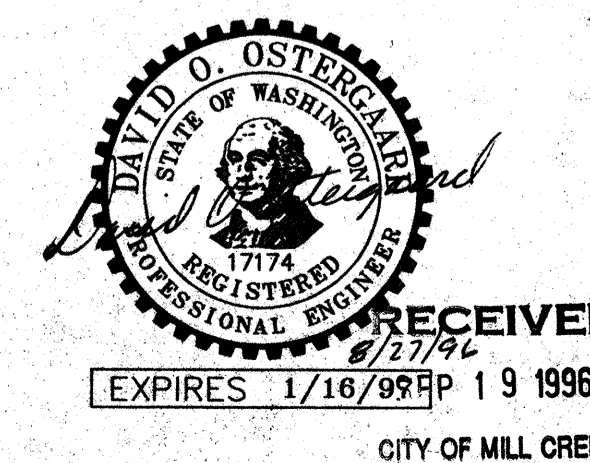
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS. PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT SHALL BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOILS MECHANICS.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEED PREFERRED.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
- ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY THE CITY OF MILL CREEK.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING:
20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS
40% CREEPING RED FESCUE
40% WHITE CLOVER
HYDROSEED REQUIRED.
- FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.

DATE	7/16/96
REVISION	PER SNO. CO. REVIEW COMMENTS
BY	ME

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-6854

DIVISION 7
THE PARKS AT MILL CREEK
GRADING + T.E.S.C.P.
DETAILS + NOTES
CITY OF MILL CREEK WASHINGTON

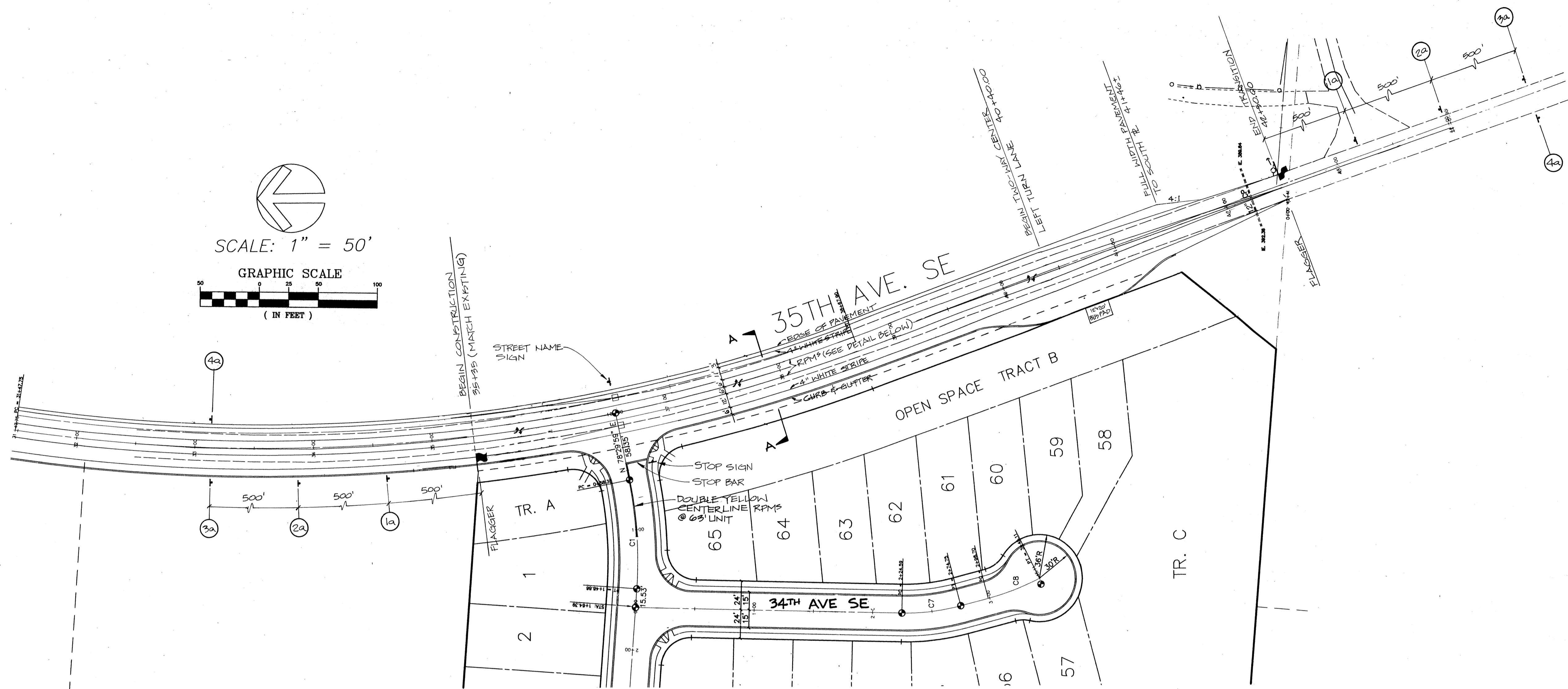
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Checked	
Drawn	ME
Checked	
As-built	
Sheet	11 of 12
Job No.	93129



ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER
DATE 7/16/96

HDEV-760

SEC 5, TWP 27N, RGE 5E, W.M.



Notes

Approved permanent traffic control signs and markings within the public right-of-way shall be installed by county forces.

Approved traffic control signs and markings on private property shall be provided, installed and maintained by the property owner.

Construction signs and delineators shall be provided and maintained by the contractor.

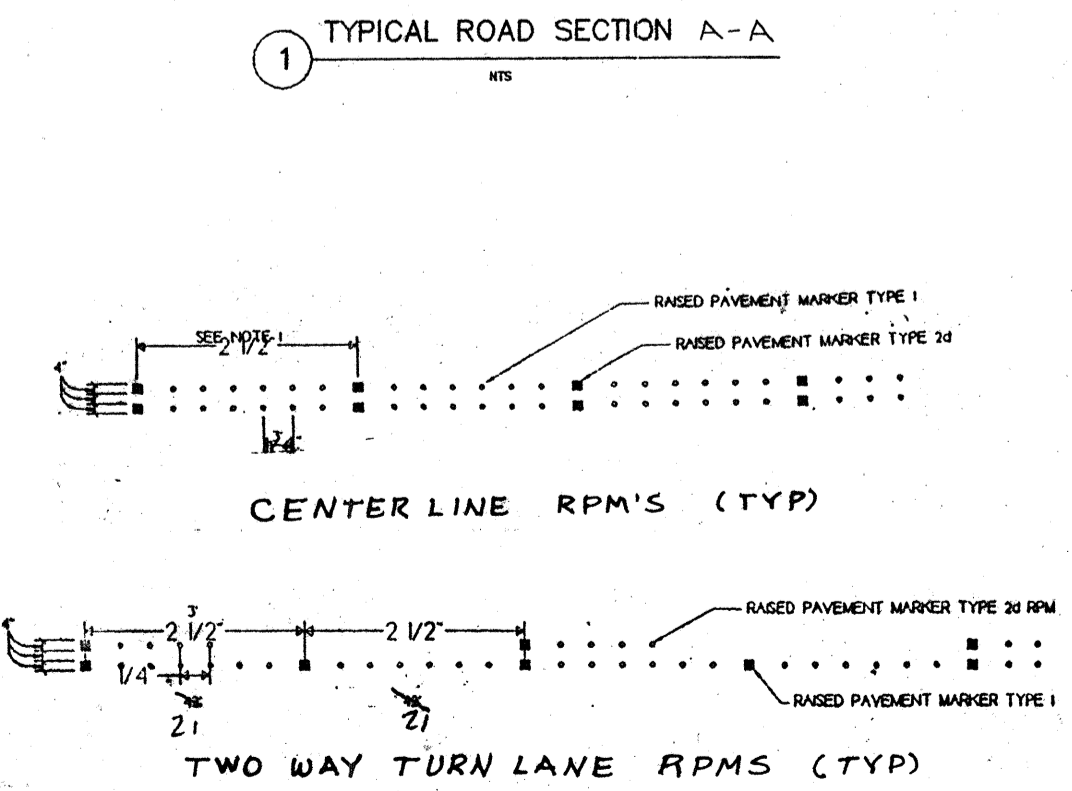
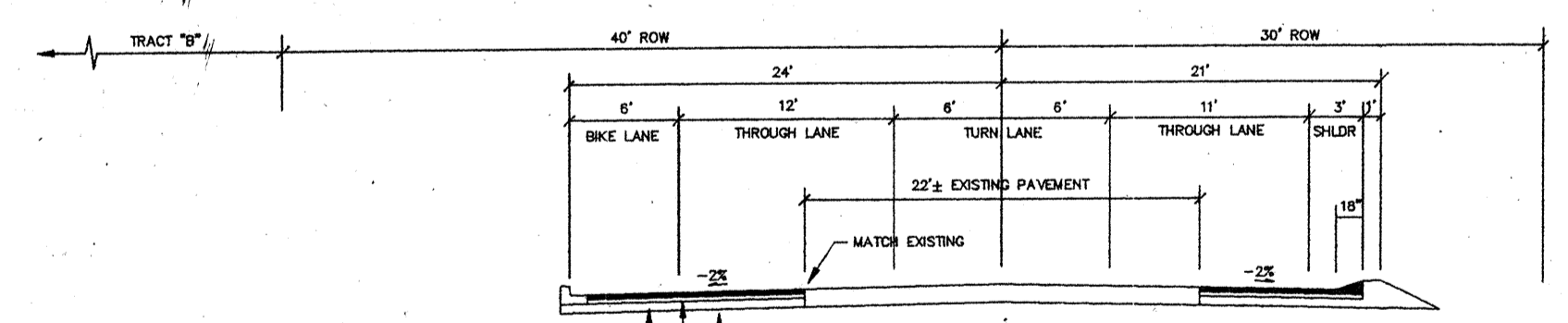
A right-of-way use permit is required from the Department of Public Works for any lane/road closure. Contact Public Works at 388-6408 at least 15 days prior to construction activity within the public right-of-way.

All flaggers are to be equipped with orange safety vests and head gear appropriate for flagging traffic within the public right-of-way and shall have valid flagging cards from the Department of Labor and Industries.

After work within the traveled roadway is completed at the end of each day the road shall be clear of debris and equipment and completely open to traffic. Any equipment or construction materials left within the public right-of-way shall have lighted type II barricades around them. All nonapplicable signs shall be removed, turned or covered daily when condition no longer exists.

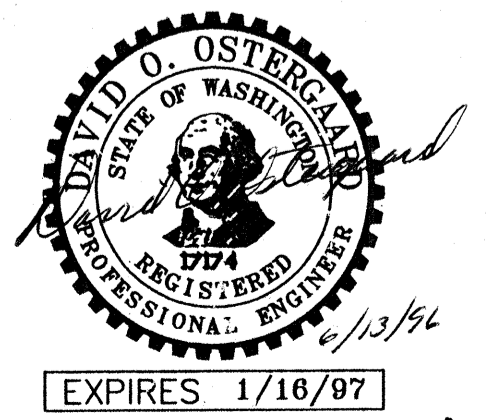
Snohomish County does not have jurisdiction on State Routes, the roads within incorporated cities, private roads or on private property. For any related activity encroaching on such property the applicant should obtain permission from the appropriate authority.

Access by emergency vehicles shall be maintained at all times.



CONSTRUCTION SIGNING SCHEDULE			
PLAN CODE	MUTCD CODE	TYPE	QUANTITY
1a	W20-7a	FLAGGER SYMBOL @ "X" FT	2
2a	W20-4a	ONE LANE ROAD @ "X" FT	2
3a	W20-1	ROAD CONSTRUCTION @ "X" FT	2
4a	G20-2	END CONSTRUCTION	2

SNOHOMISH COUNTY
DEPARTMENT OF PUBLIC WORKS
CHANNELIZATION AND SIGNING APPROVED FOR INSTALLATION
by JAMES BLOODGOOD P. E. TRAFFIC ENGINEER



HDEV-761

RECEIVED
SEP 19 1996
CITY OF MILL CREEK

DIVISION 7

THE PARKS AT MILL CREEK
CHANNELIZATION, SIGNING
& CONSTRUCTION SIGNING PLAN
CITY OF MILL CREEK WASHINGTON

Designed ME LPZ
Checked
Drawn ME LPZ
Checked
As-built

Sheet 12 of 12

Job No. 93129

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE.
(206) 259-6445
EVERETT, WA 98201
BELLEVUE: (206) 827-5654

DATE	REVISION	BY