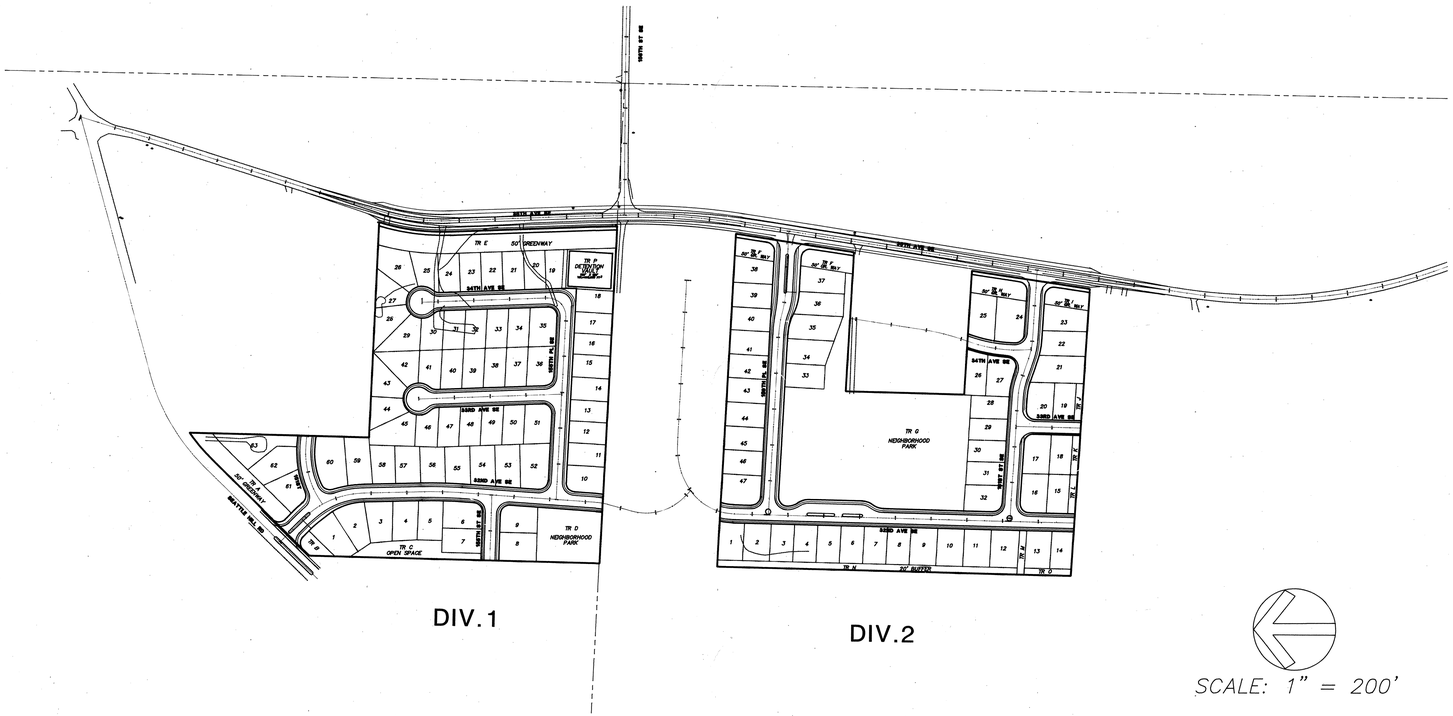
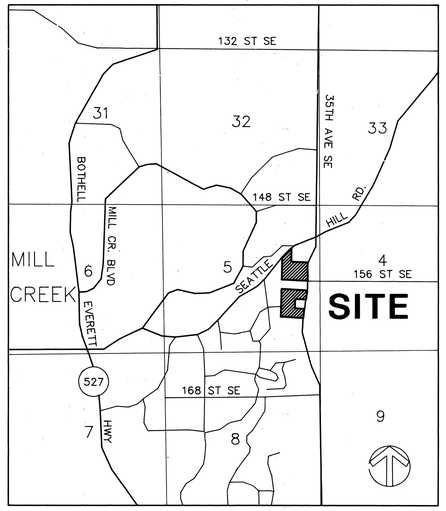
SEC 5, TWP 27N, RGE 5E, W.M.



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 1 - 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 12/5/94
Project Engineer Date

BY: Kent E. Robinson 12/5/94
Project Surveyor Date

BY: _____
Project Developer Date

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER — 8/18/93

EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____
PHASE 1 ONLY

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CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 23 Oct 93
PHASE 1 ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/4/94

DATE	REVISION	BY
9/21/93	PER CITY REVIEW	BRL

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
COVER SHEET
CITY OF MILL CREEK WASHINGTON

Designed ME
Checked
Drawn ME
Checked
As-built

RECEIVED
DEC 22 1994

Sheet 1 of 16

Job No. 93129

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

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
1/14/94	CS'S SPOT ELEVS	LPR
2/9/94	PER COUNTY REVIEW	LPR
2/11/94	ADDED E-STA	LPR
3/17/94	REVISED SCALE	LPR
4/15/94	REV LOT LINES, ADDED 24" SD	LPR
5/25/94	REVISE TYPE SIZE	LPR
11/1/94	CLARIFY CB TYPE 26 - 27	LPR

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

SNOHOMISH COUNTY
COMMUNITY DEVELOPMENT DIVISION
APPROVED FOR CONSTRUCTION R/W ONLY
by _____ 5/17/94
FOR RANDOLPH R. SLEIGHT, P.E., P.L.S.
Right-of-Way Permit No. RW1418

VERTICAL DATUM
N.A.V.D. 29

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 _____ 28 Oct 93
PHASE 1 ONLY

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED
PROFESSIONAL ENGINEER
9/23/93
EXPIRES 1/16/95

AS BUILT
AS INDICATED BY "AB"

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/16/97

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

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 2 of 16

Job No. 93129

THE PARKS DIVISION 1

HDEV-326

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

MATCH LINE SHEET 2

SEE SHEET 12

35TH AVE SE

34TH AVE SE

33RD AVE SE

32ND AVE SE

159TH PL SE

161ST ST SE

TR G NEIGHBORHOOD PARK

TR A 20' BUFFER

TR J

TR K

TR L

TR M

TR O

50' GR. WAY W/MEANDERING WALKWAY

300' TRANSITION

CB 38A
TOP ~~419.33~~ 419.28 A-B
INV ~~406.93~~ 407.08 A-B
24" N12 N&S

CB 10A
TOP 418.93 A-B
INV 415.10 15" CP N&S A-B
INV 415.40 12" CP E. A-B
INV 416.50 15" CP SW A-B

CB 38
TOP ~~419.57~~ 419.94 A-B
INV ~~406.43~~ ~~21"~~ 406.61 24" N12 N&S A-B

CB 39
TOP ~~420.97~~ 421.07 A-B
INV ~~405.38~~ ~~21"~~ 405.58 24" N12 N&S A-B

CB 11
TOP 420.01
INV 417.00~12"

CB 10 W/ OIL/WATER SEPARATOR
TOP 420.01
INV 416.80~12"
INV 416.56~15"

OUTFALL 10A
INV 416.24

CB 9
TOP ~~417.38~~ 417.53 A-B
INV ~~415.00~~ ~~12"~~ 413.13 15" CP NW A-B
INV ~~408.30~~ ~~18"~~ 408.38 18" N12 S. A-B
INV ~~408.05~~ ~~21"~~ 408.29 24" N12 N. A-B
6'~12"SD@8.33%

INTAKE 9A
INV 415.50~12"

CB TYPE I
TOP 418.54 A-B
INV 413.83 12" CP S. A-B
INV 413.86 12" CP E. A-B

CB 37
TOP 417.88 A-B
INV 413.75~12" CP W. A-B
INV ~~410.55~~ ~~12"~~ N12 410.63 S. A-B
INV ~~410.05~~ ~~18"~~ N12 N. A-B
410.23

CB 9A
TOP ~~418.50~~ 418.74 A-B
INV ~~409.50~~ 409.47 18" N12 N&S A-B

CB 2B
TOP FIELD SET 417.62 A-B
INV ~~416.08~~ 415.92 12" CP W. A-B
INV ~~414.61~~ 413 CP E. A-B
CB 2A TYPE II 16

CB 37A
TOP 417.40 A-B
INV ~~414.05~~ 411.12 12" N12 N,S A-B

OUTFALL 2D
INV 415.00

CB 2C
TOP
INV 415.23

CB 36
TOP ~~416.28~~ 416.44 A-B
INV ~~412.18~~ 12" N12
412.33 A-B

CB 2 W/ OIL/WATER SEPARATOR
TOP 418.77
INV 415.59~12"

CB 3
TOP 421.64
INV 417.49~8"
INV 417.16~12"

CB 4
TOP 421.97
INV 418.02~12"
W/THRU CURB GRATE

CB 1
TOP 418.77
INV 415.77~12"

INLET 3A
TOP 422.49
INV 419.82~8"

CB 6
TOP 426.21
INV 422.94~8"
INV 422.61~12"
W/THRU CURB GRATE

CB 5
TOP 425.99
INV 421.96~12"

CB 6A
TOP 426.21
INV 423.54~8"
W/THRU CURB GRATE

CB 7A
TOP 427.99
INV 423.27~12"

CB 7
TOP 427.99
INV 423.12~12"

INLET 8A
W/THRU CURB GRATE
TOP 428.80
INV 426.13~8"

CB 8B TYPE II
TOP 431.96
INV 424.40~12"

CB 8
TOP 428.80
INV 425.53~8"
INV 425.20~12"
W/THRU CURB GRATE

CB 12
TOP 423.98
INV 421.32~8"

CB 13
TOP 423.98
INV 420.21~8"
INV 419.88~12"
INV 419.63~15"

CB 14 TYPE II
TOP 429.42
INV 426.15~8"(N)
INV 423.00~8"(S)
INV 422.13~12"

CB 14A
TOP 429.42
INV 426.75~8"

CB 15A TYPE I 48"
TOP 430.39
INV 423.36

CB 15 TYPE II 48"
TOP 430.82
INV 423.77

INLET 18A
TOP 428.91
INV 426.35~8"(E)
INV 426.25~8"(W)
W/THRU CURB GRATE

INLET 17A
TOP 429.71
INV 427.04

CB 16
TOP 429.89
INV 426.05

CB 16A
TOP 429.89
INV 426.69

CB 17 TYPE I 48"
TOP 430.09
INV 424.70~8"
INV 424.37~12"

CB 18
TOP 429.02
INV 425.45~8"
INV 425.12~12"
W/THRU CURB GRATE

INLET 19A
TOP 430.30
INV 427.73~8"(E)
INV 427.63~8"(W)

CB 19
TOP 430.30
INV 427.03~8"
INV 426.70~12"

4B CAPPED END @ ℄
INV 418.85

16B CAPPED END @ ℄
INV 429.10

EXISTING STRUCTURE

"V" DITCH - MEANDER AS NECESSARY TO AVOID SIGNIFICANT TREES

TYPE III BARICADE FULL WIDTH OF R-O-W

CROSSWALK & STOP BAR

4' BIOFILTRATION SWALE

EX. FP/TP RELOCATE AS REQ'D

EX. CULVERT

OUTFALL INV 413.56 12" CP A-B

GUY POLE & ANCHOR RELOCATE AS REQ'D

EXTEND CULVERT IN. REQ'D

OUTFALL INV 413.98 12" CP A-B

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: ROW ONLY
by Randolph R. Sleight 5/17/94
FOR RANDOLPH R. SLEIGHT, P.E., P.L.S.
Right-of-Way Permit No. RW1148

SCALE: 1" = 50'

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 28 Oct 93
PHASE 1 ONLY

AS BUILT
AS INDICATED BY "AB"

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
9/24/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/9/94	PER COUNTY REVIEW	LBD
2/11/94	ADDED E. STA.	LBD
3/7/94	REVISED SD	LBD
4/18/94	RE-WORK LOTS 1-15	LBD
12/1/94	AS BUILT (B-B) STORM 35TH AVE SE	LBD

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
CITY OF MILL CREEK WASHINGTON

Designed ME
Checked
Drawn ME
Checked
As-built

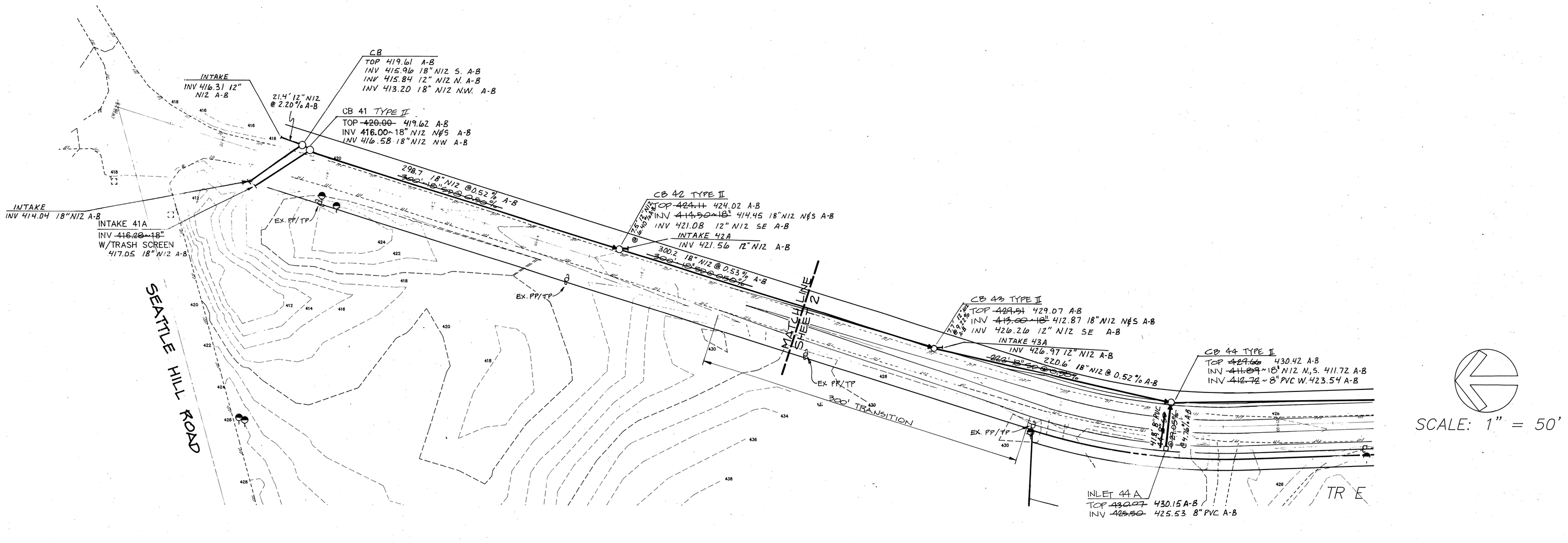
Sheet 3 of 16

Job No. 93129

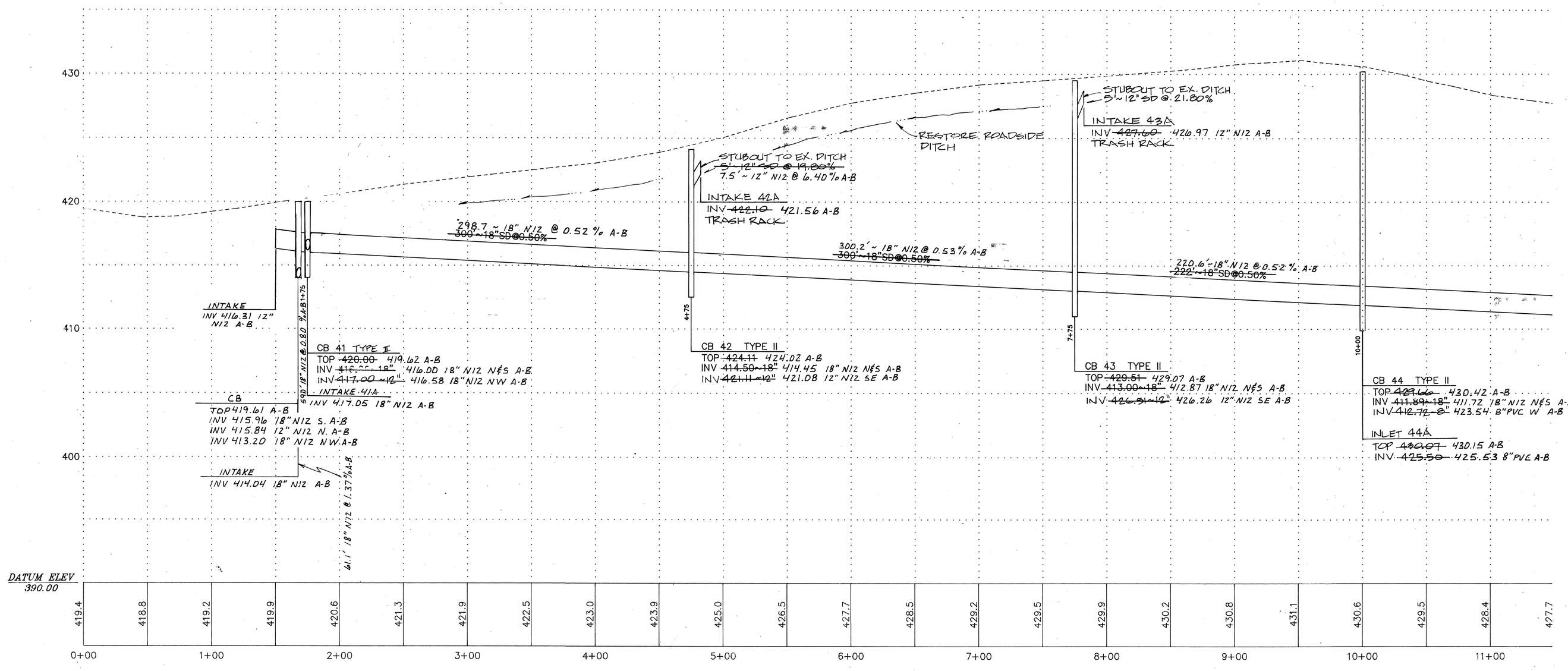
THE PARKS DIVISION 2

HDEV-327

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



SCALE: 1" = 50'



35TH AVENUE SE

AS BUILT
AS INDICATED BY "AB"

SNOHOMISH COUNTY
COMMUNITY DEVELOPMENT DIVISION
APPROVED FOR CONSTRUCTION **RW ONLY.**
by _____
FOR RANDOLPH R. SLEIGHT P.E., P.L.S.
Right-of-Way Permit No. RW1418

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

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 28 Oct 93
PHASE 1 ONLY

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
8/18/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

DATE	REVISION	BY
9/1995	PER CITY REVIEW	ME
2/9/94	PER COUNTY REVIEW	DRZ
4/15/94	PER COUNTY REVIEW	JRP
12/2/94	AS-BUILT STORM	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 ME
Checked
Drawn ME
Checked
As-built

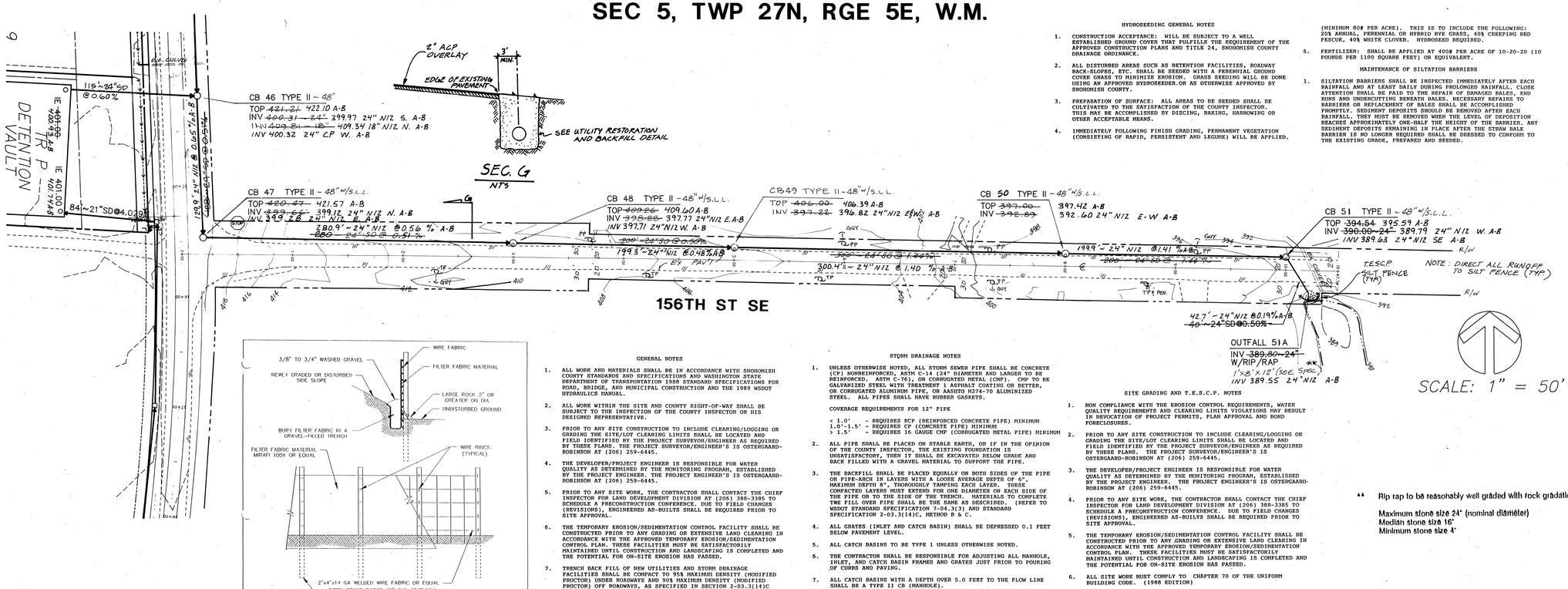
Sheet 4 of 16

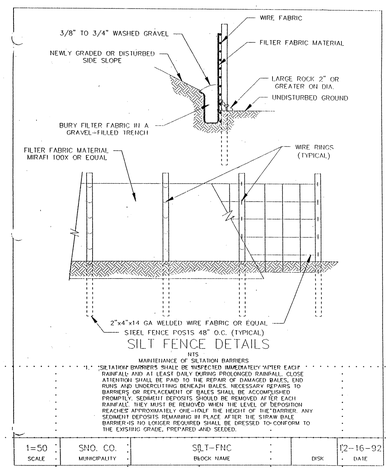
Job No. 93129

THE PARKS

HDEV-328

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





GENERAL NOTES

1. 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.
2. ALL WORK WITHIN THE SITE AND COUNTY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE COUNTY INSPECTOR OR HIS DESIGNED REPRESENTATIVE.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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 EMBANKMENTS METHOD B.
8. 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.
9. BOND WILL BE PROVIDED IF ROAD REQUIRES OVERLAY.
10. RIGHT-OF-WAY USE PERMIT WILL BE PROVIDED AS REQUIRED FOR WORK INSIDE OF RIGHT-OF-WAY.

STORM DRAINAGE NOTES

1. 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 1 ASPHALT COATING OR BETTER, OR CORRUGATED ALUMINUM PIPE, OR AASHTO M274-70 ALUMINIZED STEEL. ALL PIPES SHALL HAVE RUBBER GASKETS.

   COVERAGE REQUIREMENTS FOR 12" PIPE

   < 1.0' - REQUIRES RCP (REINFORCED CONCRETE PIPE) MINIMUM
   1.0'-1.5' - REQUIRES CP (CONCRETE PIPE) MINIMUM
   > 1.5' - REQUIRES 16 GAUGE CMP (CORRUGATED METAL PIPE) MINIMUM
2. 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.
3. 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 OR 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 WSDOT STANDARD SPECIFICATION 7-04.3(3) AND STANDARD SPECIFICATION 2-03.3(14)C, METHOD B & C.
4. ALL GRATES (INLET AND CATCH BASIN) SHALL BE DEPRESSED 0.1 FEET BELOW PAVEMENT LEVEL.
5. ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
7. ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
8. ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS. HOLLED GRATES ARE NOT APPROVED FOR OUTSIDE OF COUNTY RIGHT-OF-WAY OR FOR USE WITH TYPE II MANHOLE.
9. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
10. CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435, 5435A, OR 50503A, LOCKING TYPE OR EQUAL. MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. MODEL 50503A IS REFERRED TO AS A "ROLLED GRATE INLET" IN THE PLAN.
11. DETENTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 SHALL REQUIRE A PERIMETER FENCE PER SNOHOMISH COUNTY CODE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED.
12. 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." LOCATIONS OF THESE INSTALLATIONS SHALL BE PLACED ON THE AS-BUILT CONSTRUCTION PLANS AND SUBMITTED TO THE COUNTY.
13. STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO SNOHOMISH COUNTY ACCEPTANCE.

HYDROSEEDING GENERAL NOTES

1. 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.
2. 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.
3. PREPARATION OF SURFACE: ALL AREAS TO BE SEEDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS.
4. 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.
5. FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.

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.

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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. ALL SITE WORK MUST COMPLY TO CHAPTER 70 OF THE UNIFORM BUILDING CODE. (1988 EDITION)
7. ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS. PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
8. 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 SOILS MECHANICS.
9. DETENTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 SHALL REQUIRE A PERIMETER FENCE PER SNOHOMISH COUNTY CODE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED.
10. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEED PREFERRED.
11. ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF **MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.**
13. T.E.S.C. MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE WORK (SEE ATTACHED DETAILED DRAINAGE PLAN).
14. THE DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLAN (SEE ATTACHED).

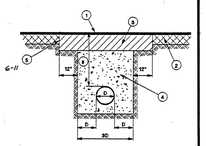
** Rip rap to be reasonably well graded with rock gradation as follows:

Maximum stone size 24" (nominal diameter)
Median stone size 16"
Minimum stone size 4"

NOTES:

1. LONGITUDINAL TRENCH - 2" ASPHALT CLASS B OVERLAY. SEE SEC. 10-03.3.1.6

   TRANSVERSE TRENCH - 3" ASPHALT CLASS B OVERLAY WHERE MULTIPLE CROSSINGS BY SAME UTILITY. SEE SEC. 10-03.3.2.d.
2. EXISTING PAVEMENT
3. LONGITUDINAL TRENCH - 6" ACP OR 3" ACP + 4" ATB SEE SEC. 10-03.3.1.c. TRANSVERSE TRENCH - 5" ACP OR 3" ACP + 6" ATB SEE SEC. 10-03.3.2.c. NONE TRAVELED AREAS - 6" GRAVEL SHOULDER SEE SEC G-11
4. NATIVE MATERIAL, BANK RUN GRAVEL, OR CONTROL DENSITY FILL. SEE SEC. 10-03 & 10-04.
5. NEAT LINE CUT, CLEAN, HEAT & TACK EDGES WITH SEALER ES-1 & SEAL WITH HOT ASPHALT CEMENT.
6. TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL BE ACCOMPLISHED BY USING COLD MIX, ATB, OR STEEL PLATES.
7. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 5-04 OF THE WSDOT/APWA SPECIFICATIONS.
8. SEE TEXT SECTION 10-02 FOR DEPTHS OF COVER.



UTILITY TRENCH RESTORATION AND BACKFILL
NTS

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

AS BUILT
AS INDICATED BY "AB"

SNOHOMISH COUNTY
COMMUNITY DEVELOPMENT DIVISION
APPROVED FOR CONSTRUCTION **RW ONLY**
by Randolph R. Sleight 5/17/94
FOR RANDOLPH R. SLEIGHT, P.E., P.L.S.
Right-of-Way Permit No. RW1478

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 28 Oct 93
PHASE 1 ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/17/95

DAVID C. OSTERGAARD — STATE OF WASHINGTON — 17774 — REGISTERED PROFESSIONAL ENGINEER
2/2/94
EXPIRES 7/19/95

SL.L. = SOLID LOCKING LID

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/9/94	PER COUNTY REVIEW	DRT
4/15/94	PER COUNTY REVIEW	DRT
12/2/94	AS-BUILT STORM	458

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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 AND (T.E.S.C.P.) WASHINGTON

Designed ME
Checked
Drawn ME
Checked
As-built

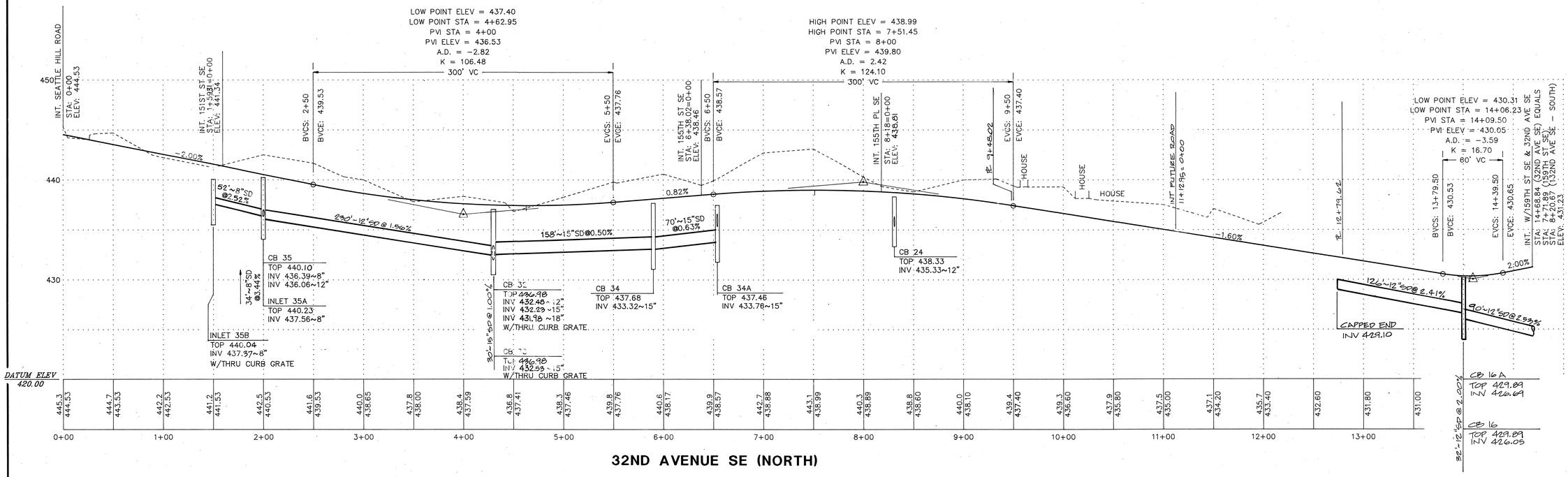
Sheet 5 of 16

Job No. 93129

THE PARKS

HDEV-329

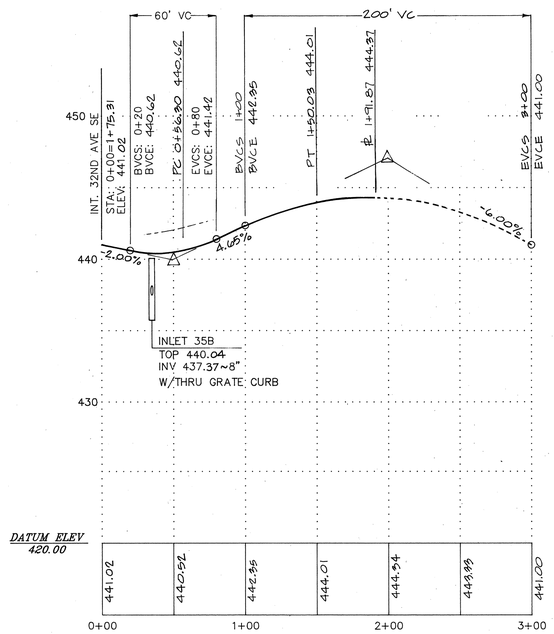
SEC 5, TWP 27N, RGE 5E, W.M.



32ND AVENUE SE (NORTH)

LOW POINT ELEV = 440.44
LOW POINT STA = 0+38.05
PVI STA = 0+50
PVI ELEV = 440.02

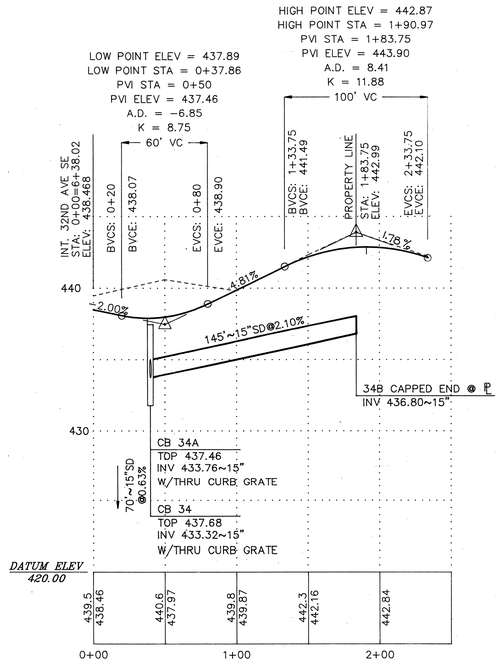
HIGH POINT ELEV = 444.38
HIGH POINT STA = 1+87.32
PVI STA = 2+00
PVI ELEV = 447.00



151ST ST SE

HIGH POINT ELEV = 442.87
HIGH POINT STA = 1+90.97
PVI STA = 1+83.75
PVI ELEV = 443.90
A.D. = 8.41
K = 11.88
100' VC

LOW POINT ELEV = 437.89
LOW POINT STA = 0+37.86
PVI STA = 0+50
PVI ELEV = 437.46
A.D. = -6.85
K = 8.75
60' VC



155TH STREET SE

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

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER
2/2/94
EXPIRES 1/16/95

APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER
3/6/94
DATE

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/1/94	ADDED E STA.	BE
4/15/94	REV ROAD 4	BE

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(206) 259-4445 BELLEVUE: (206) 827-5854

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

Designed ME
Checked
Drawn ME
Checked
As-built

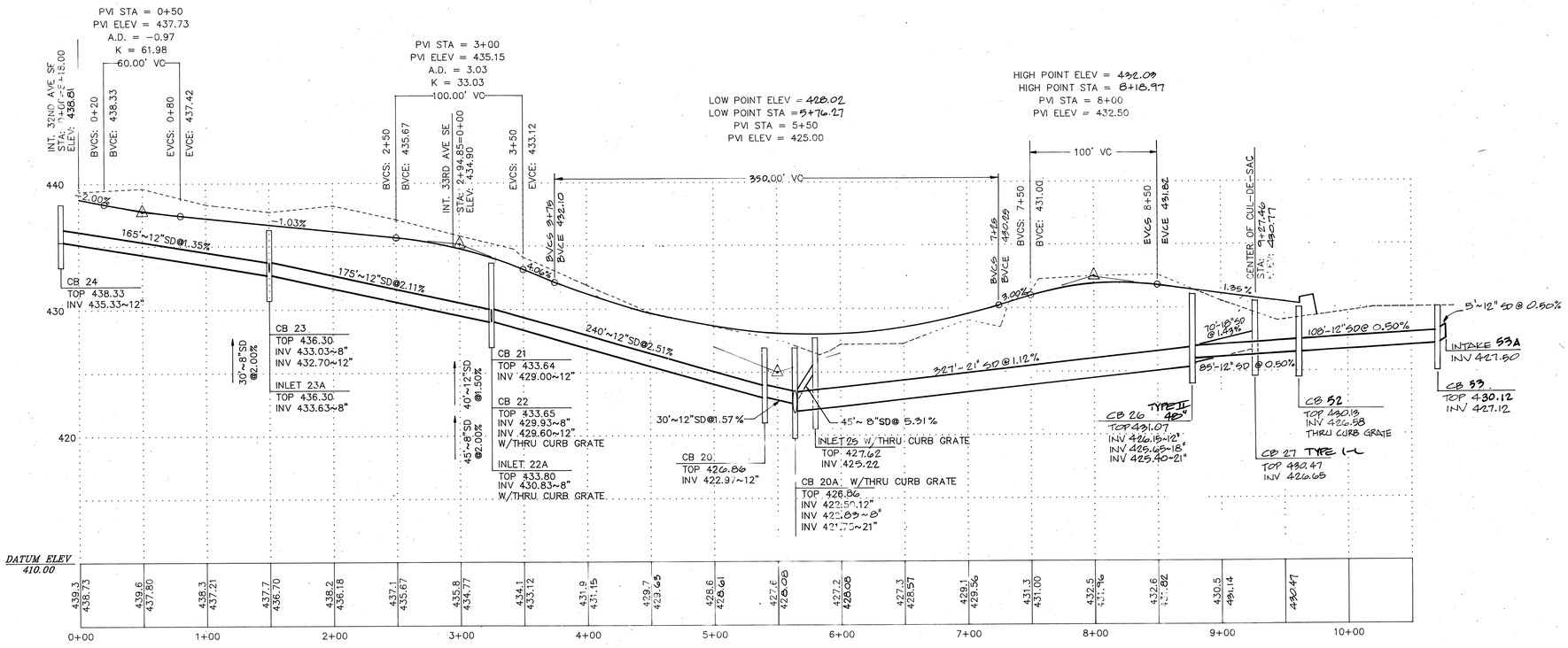
Sheet 6 of 16

Job No. 93129

THE PARKS

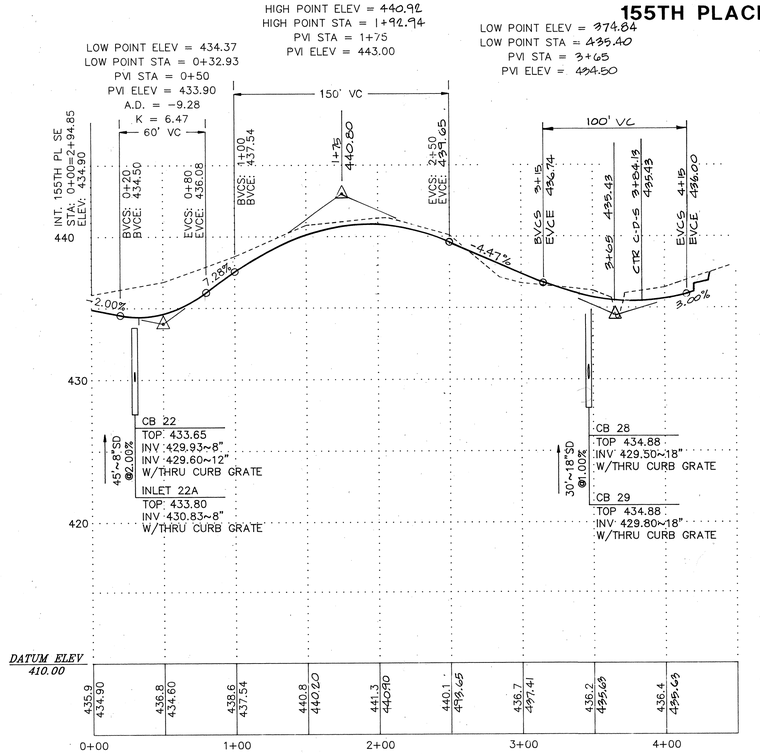
HDEV-330

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

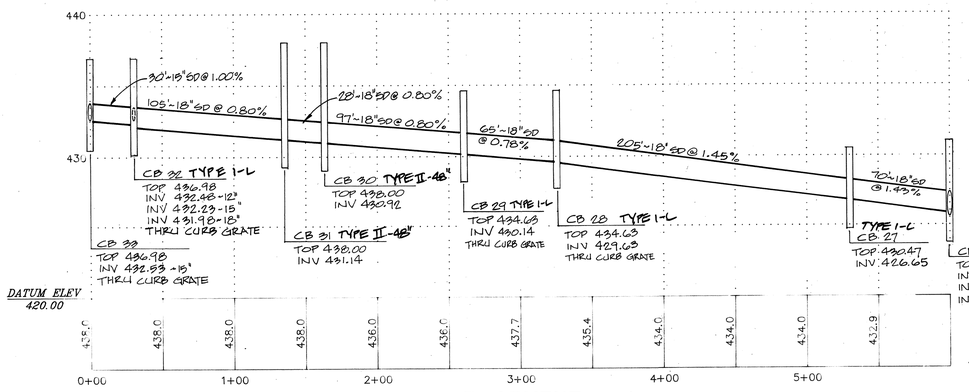


155TH PLACE SE - 34TH AVENUE SE

33RD AVENUE SE



EASEMENT



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

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
2/2/94
EXPIRES 1/16/95

APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER — DATE 5/6/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/11/94	ADDED # 52	BRZ
4/15/94	REV ROAD # 52	BRZ
5/3/94	REVISE CB # 52, 53 & 53A	KLO
"	REVISE TOP ELEV CB 53	
5/19/94	CLARIFY CB TYPE 24-32	KLO

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3705 COLBY AVE. #1 (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
Drawn ME
Checked
As-built

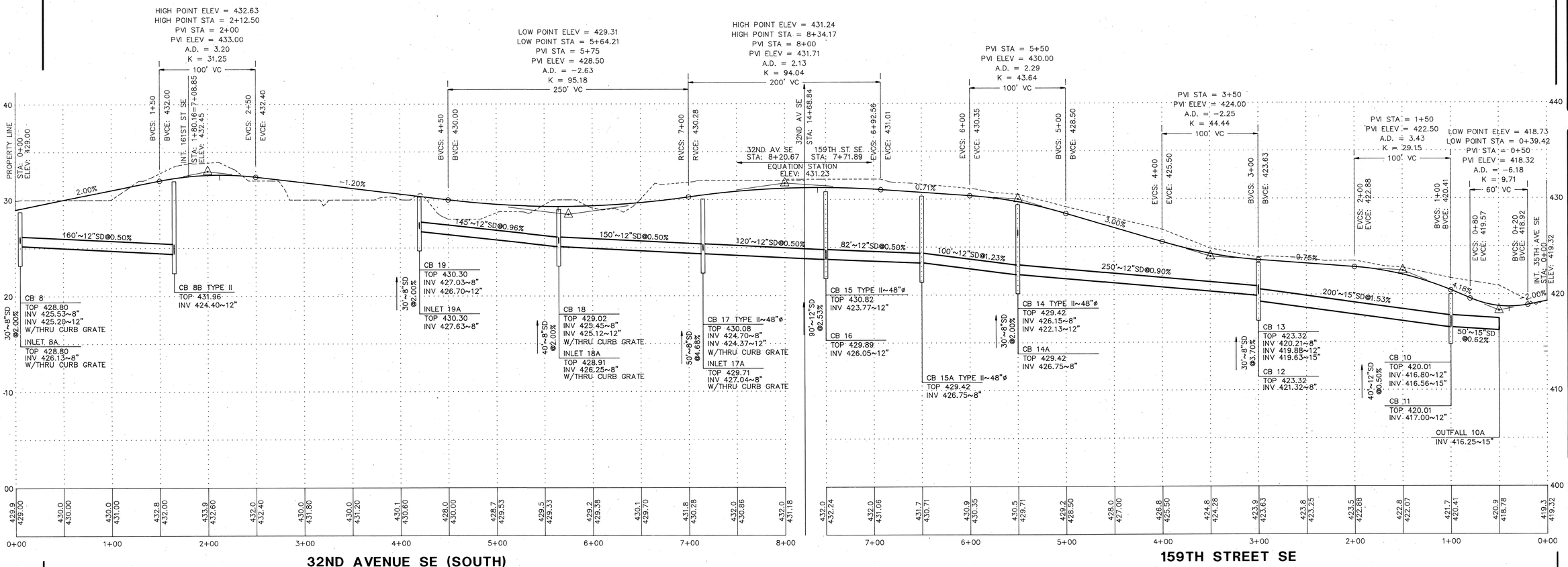
Sheet 7 of 16

Job No. 93129

THE PARKS

HDEV-331

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



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

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED PROFESSIONAL ENGINEER
2/2/94
EXPIRES 1/16/95

APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER 5/6/94 DATE

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/1/94	ADDED ELEVS	JPTZ

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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

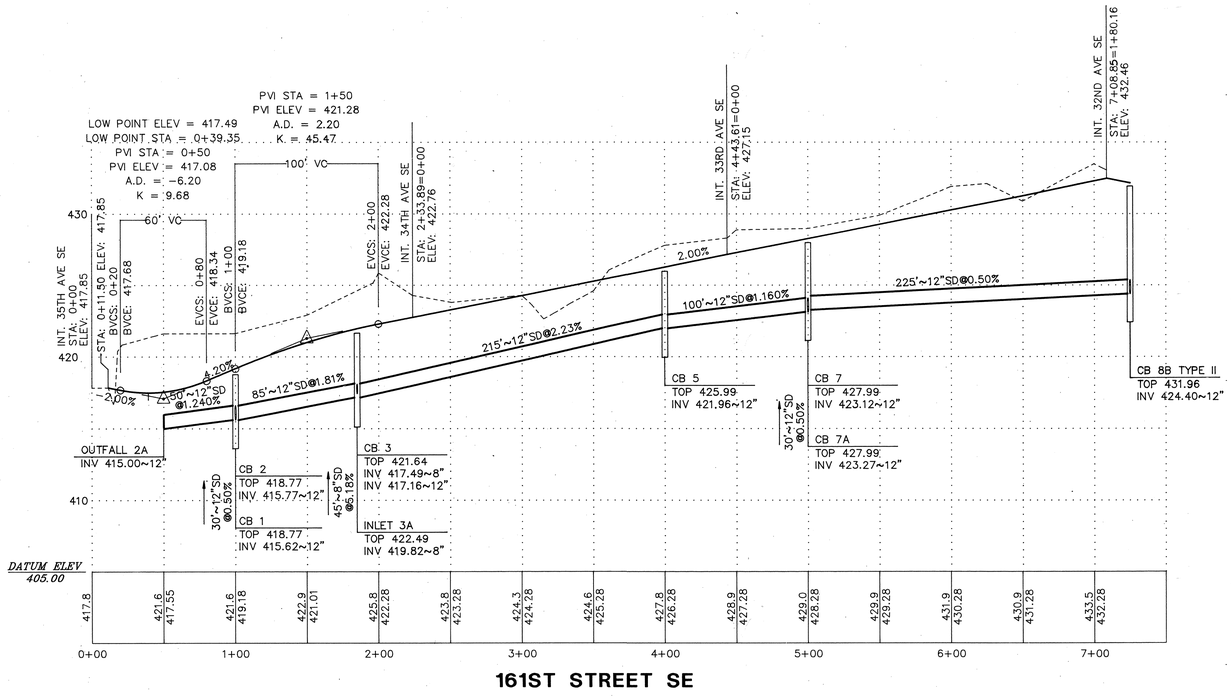
Sheet 8 of 16

Job No. 93129

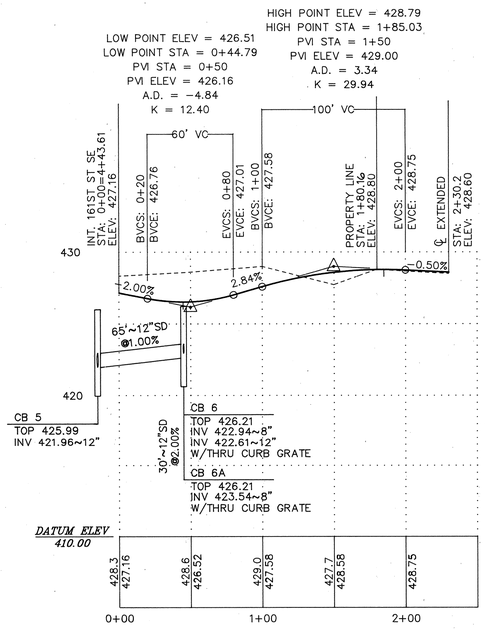
THE PARKS

HDEV-332

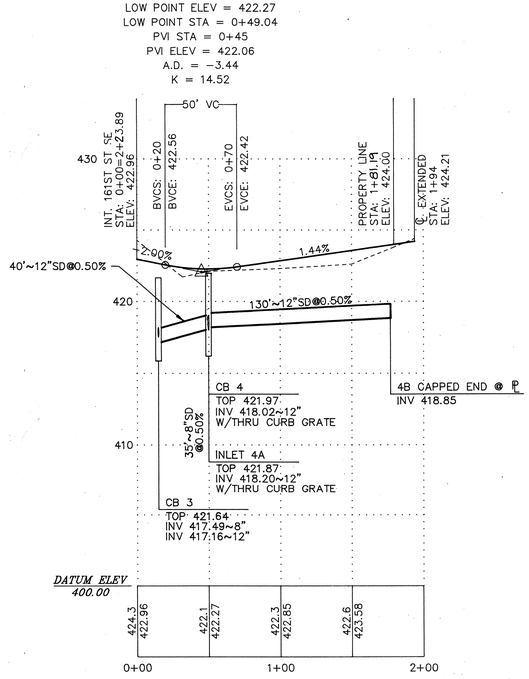
SEC 5, TWP 27N, RGE 5E, W.M.



161ST STREET SE



33RD AVENUE SE



34TH AVENUE SE

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

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER — 2/2/94

EXPIRES 1/16/95

APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER — DATE 5/6/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
2/10/94	ADDED ℄ STA	ED.

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& ASSOC. INC. CONSULTING ENGINEERS
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(206) 259-6445 BELLEVUE: (206) 827-5854

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

Designed ME
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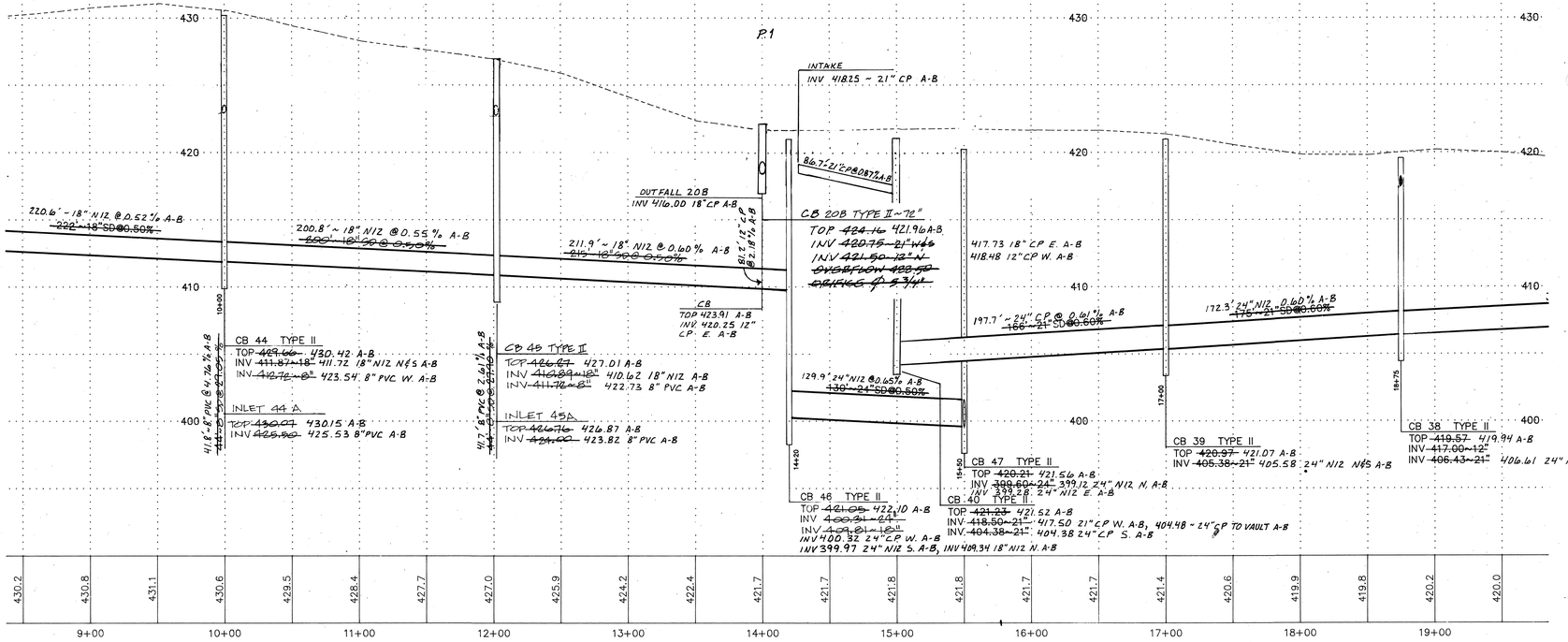
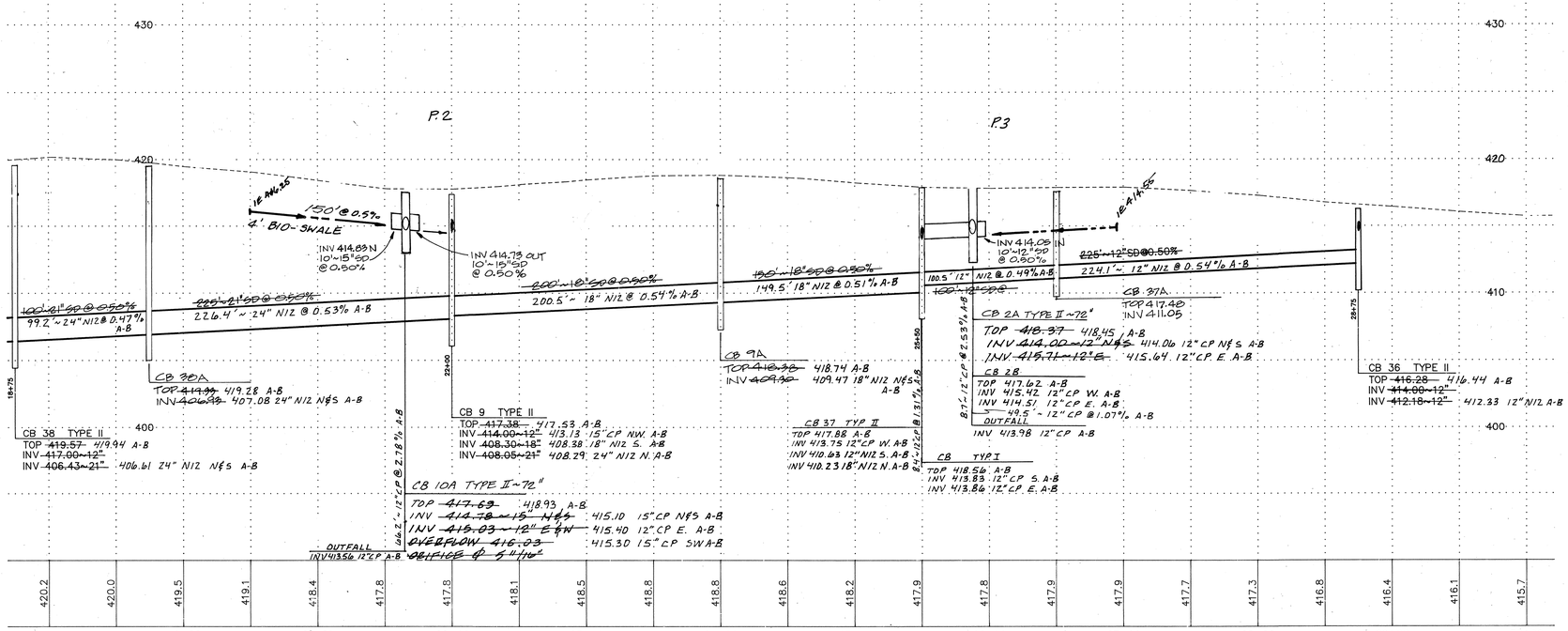
Sheet 9 of 16

Job No. 93129

THE PARKS HDEV-333

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 _____ 2/04/94
PHASE 1 ONLY

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED PROFESSIONAL ENGINEER
8/18/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

DATE	REVISION	BY
2/4/94	PER COUNTY REVIEW	LBZ
	REVISED SD	WJE
3/7/94	REV PER COUNTY	LBZ
4/16/94	AS-BUILT STORM	438
12/2/94		

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3505 COLBY AVE. #1 EVERETT, WA 98201
(206) 259-6445 BELLEVUE (206) 827-5854

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

Designed ME
Checked
Drawn ME
Checked
As-built

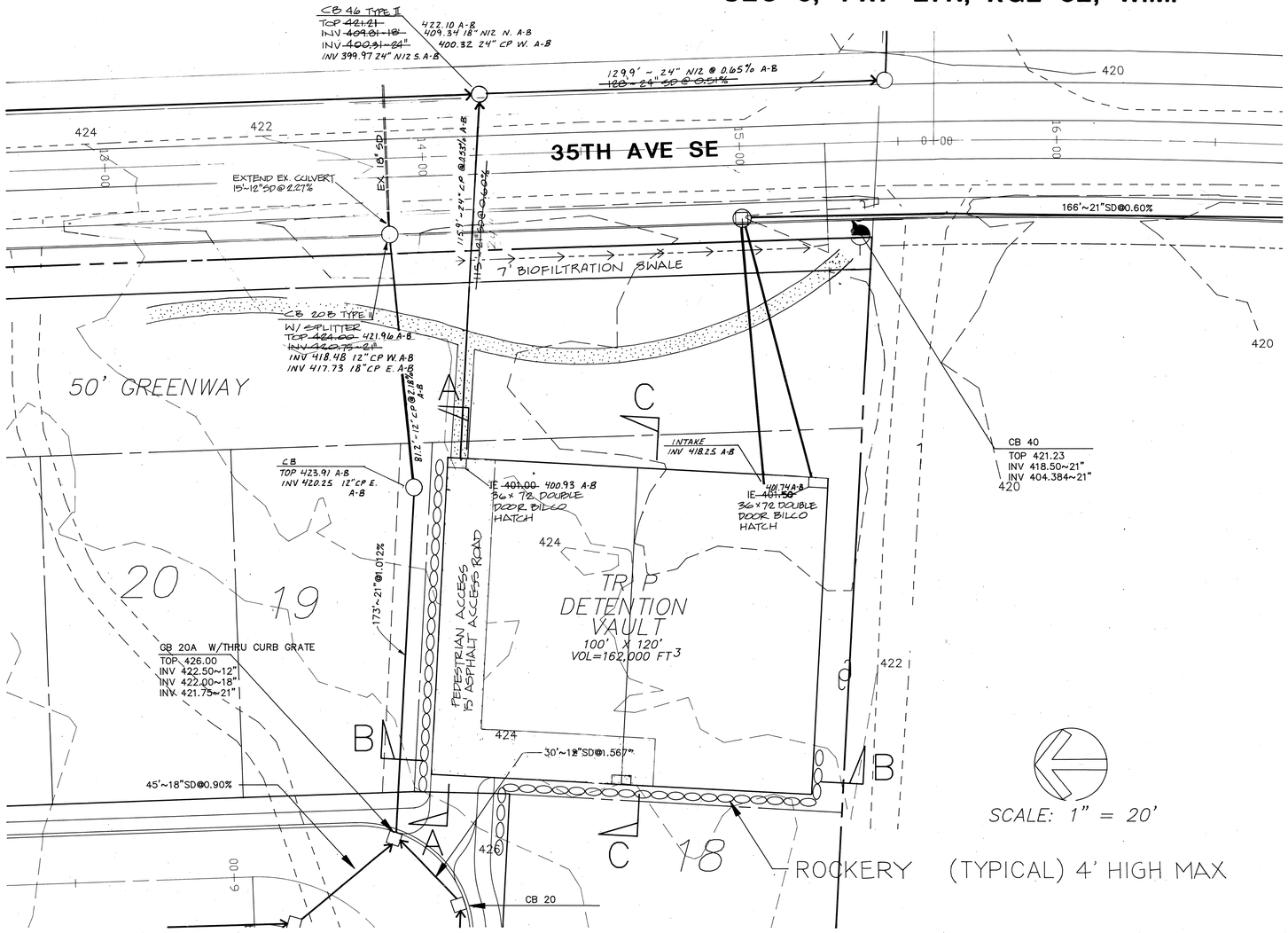
Sheet 10 of 16

Job No. 93129

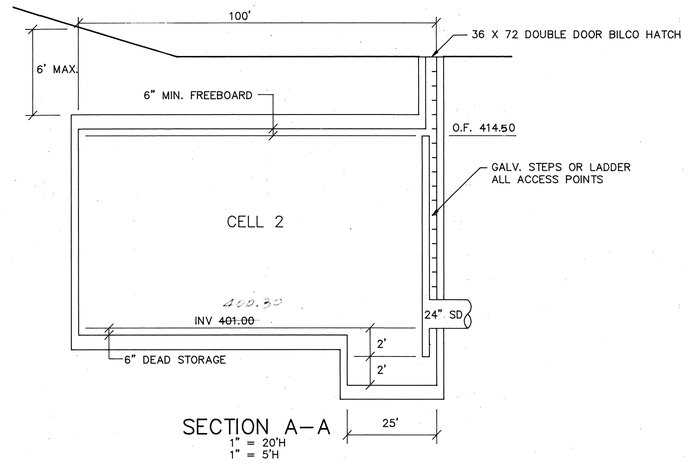
HDEV-334

THE PARKS

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

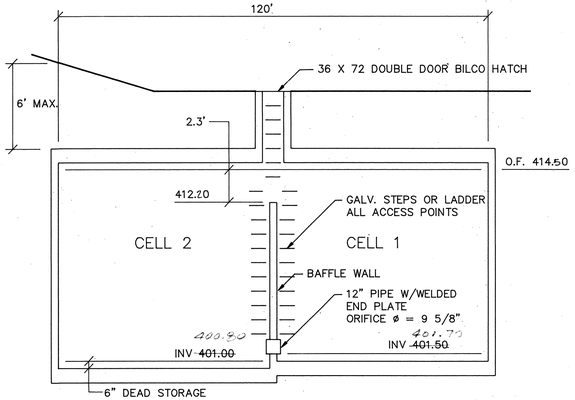


SCALE: 1" = 20'



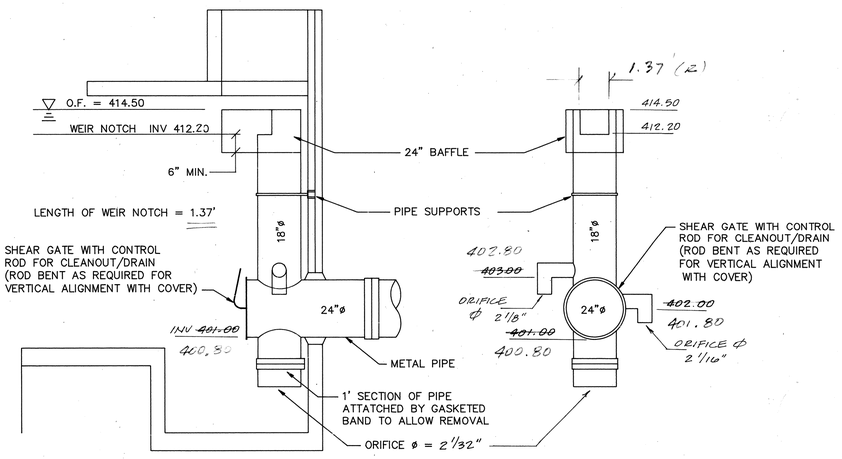
SECTION A–A
1" = 20'H
1" = 5'H

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.

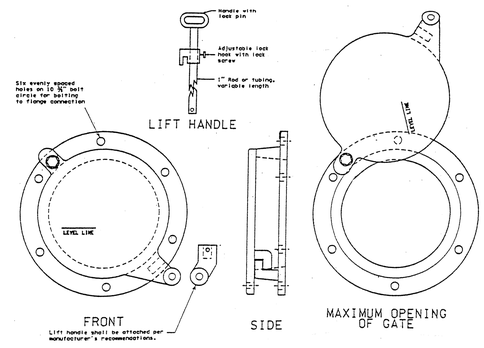


Q_2 = 8.31 CFS

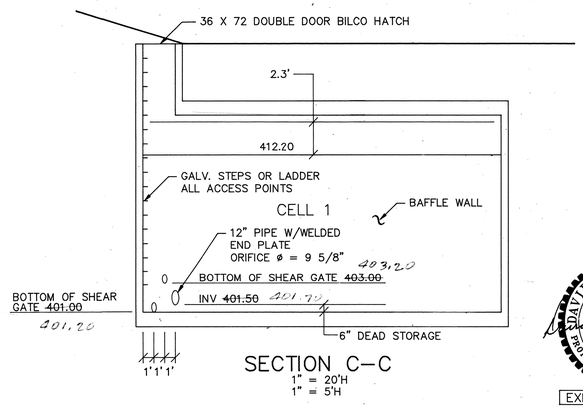
SECTION B–B
1" = 20'H
1" = 5'H



RESTRICTOR DETAILS
N.T.S.



CLEANOUT/SHEAR GATE
Alternates are acceptable providing material specifications are met and flange bolt pattern matches
8" Ø



SECTION C–C
1" = 20'H
1" = 5'H

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED PROFESSIONAL ENGINEER
9/22/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 28 Oct 93

PHASE 1 ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

DATE	REVISION	BY
9/13/93	PER CITY REVIEW COMMENTS	ME
4/19/94	PER CITY COMMENTS	BPG
12/5/94	AS-BUILT (A-B) PER FIELD	GSB

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

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

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 11 of 16

Job No. 93129

HDEV - 335

THE PARKS

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

GENERAL PLAN NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1991 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY *ENGINEER* OR HIS DESIGNATED REPRESENTATIVE.
3. A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. 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.
5. 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.
6. 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.
7. DISTURBED SOIL SHALL BE GRASS SEEDED IF NOT WORKED WITHIN 30 DAYS.

STORM DRAINAGE NOTES

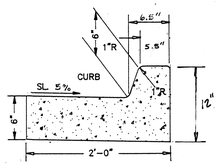
1. ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
2. THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH 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.
3. ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
5. ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
6. ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
7. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
8. 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
9. 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."
10. STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
11. 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

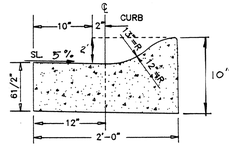
CONSTRUCTION SEQUENCE

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



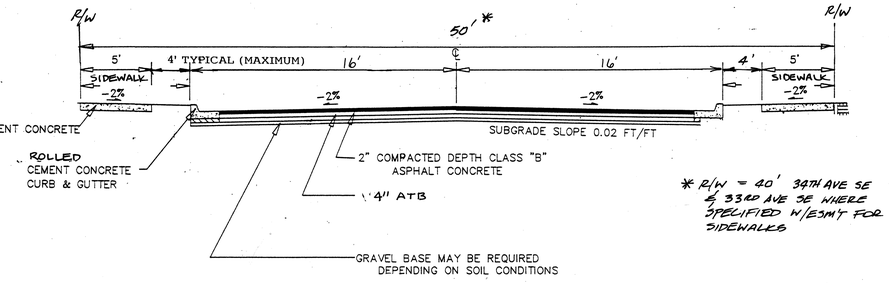
SECTION: CEMENT CONCRETE VERTICAL CURB

SCALE: 1" = 1'



SECTION: CEMENT CONCRETE ROLLED CURB

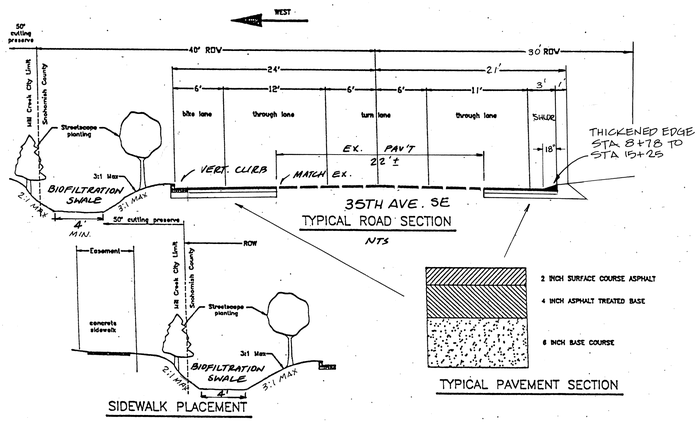
SCALE: 1" = 1'



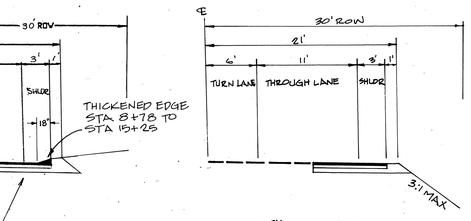
* R/W = 40' 39TH AVE SE & 33RD AVE SE WHERE SPECIFIED W/ESMT FOR SIDEWALKS

TYPICAL ROAD SECTION - ONSITE

NTS

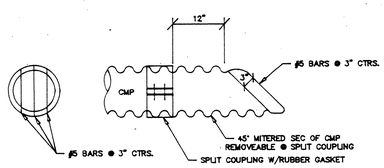


SIDEWALK TO MEANDER - LOCATION TO BE APPROVED BY THE CITY IN THE FIELD.



35TH AVE SE
EAST SIDE WITHOUT THICKENED EDGE
STA 16+00 TO STA 28+80

35th Avenue SE Cross Section

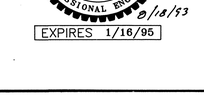


TYPICAL TRASH SCREEN

NOTE:
1. West side drainage shall be grass lined with a max. road side slope of 3:1. For side slope shall be 2:1 max. or may require a retaining wall structure.
2. Control weirs shall be as approved by Snohomish County's Surface Water Management.
3. Street scape planting shall be performed as approved by the City of Mill Creek.
4. No earth cuts shall be allowed in the 50' cutting preserve without approval by the City of Mill Creek.
5. Sidewalk placement shall be within the 50' cutting preserve as approved by the City of Mill Creek.

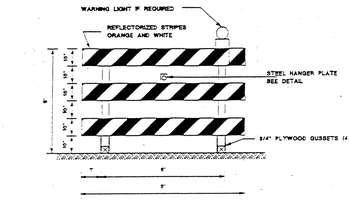
CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 2804193
PHASE I ONLY

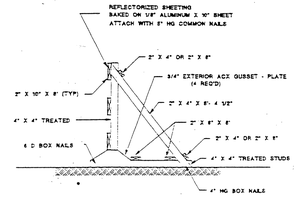
SNOHOMISH COUNTY
COMMUNITY DEVELOPMENT DIVISION
APPROVED FOR CONSTRUCTION RW ONLY
BY _____
for RANDOLPH R. SLEIGHT P.E. L.S.
R/W Permit NO. RW1418



9/18/93

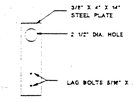
EXPIRES 1/16/95





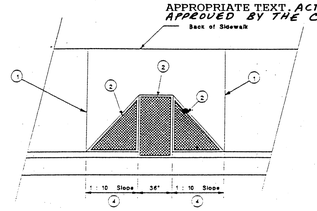
NOTES:

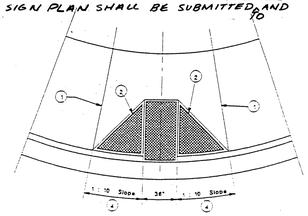
1. BARRICADES SHALL BE INSTALLED IN ACCORDANCE WITH PART VI OF THE MUTCD OR BETTER.
2. LUMBER SHALL BE STANDARD GRADE OR BETTER.
3. RIGHT (R) BARRICADES ARE PLACED TO THE RIGHT OF TRAFFIC. LEFT (L) BARRICADES ARE PLACED TO THE LEFT OF TRAFFIC
4. WHERE A BARRICADE(S) EXTENDS ENTIRELY ACROSS A ROADWAY, 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 STRIPING SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.

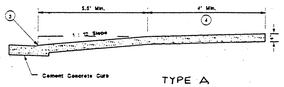


TYPE III BARRICADE

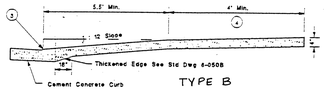
THE DEVELOPER SHALL PROVIDE APPROPRIATE SIGNAGE AT THE PLANNED STREET ENDS AT 32ND, 33RD, AND 34TH AVENUES, 155TH STREET AND THE UNNAMED STREET IN DIVISION I TO INDICATE FUTURE CONNECTIONS TO FUTURE DEVELOPMENTS. THE SIGNS SHALL INCLUDE A MAP OF THE AREA AND APPROPRIATE TEXT. ACTUAL SIGN PLAN SHALL BE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







TYPE A



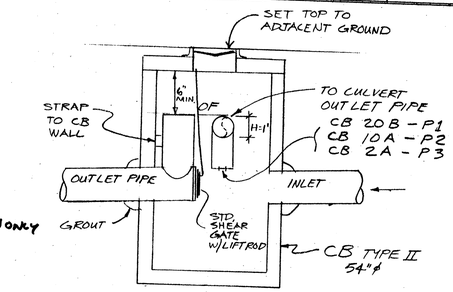
TYPE B

NOTES:

1. FULL DEPTH EXPANSION JOINT, 3/8" MIN. WIDTH. PREMOLDED JOINT FILLER.
2. 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.
3. 1/2" MAX. LIP AT GUTTER LINE.
4. IF LANDING AREA IS LESS THAN 4', DECREASE SIDE RAMP SLOPE TO 1 : 12.

DIVERSION ORIFICE CALCULATIONS

CULVERT	Q_{25}	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

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

DATE	REVISION	BY
9-21-93	REVISED PER CITY REVIEW	TLC
4/15/94	PER PER COUNTY	JBR

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 DETAILS + NOTES
CITY OF MILL CREEK WASHINGTON

Designed KR
Checked KR
Drawn ME
Checked
As-built

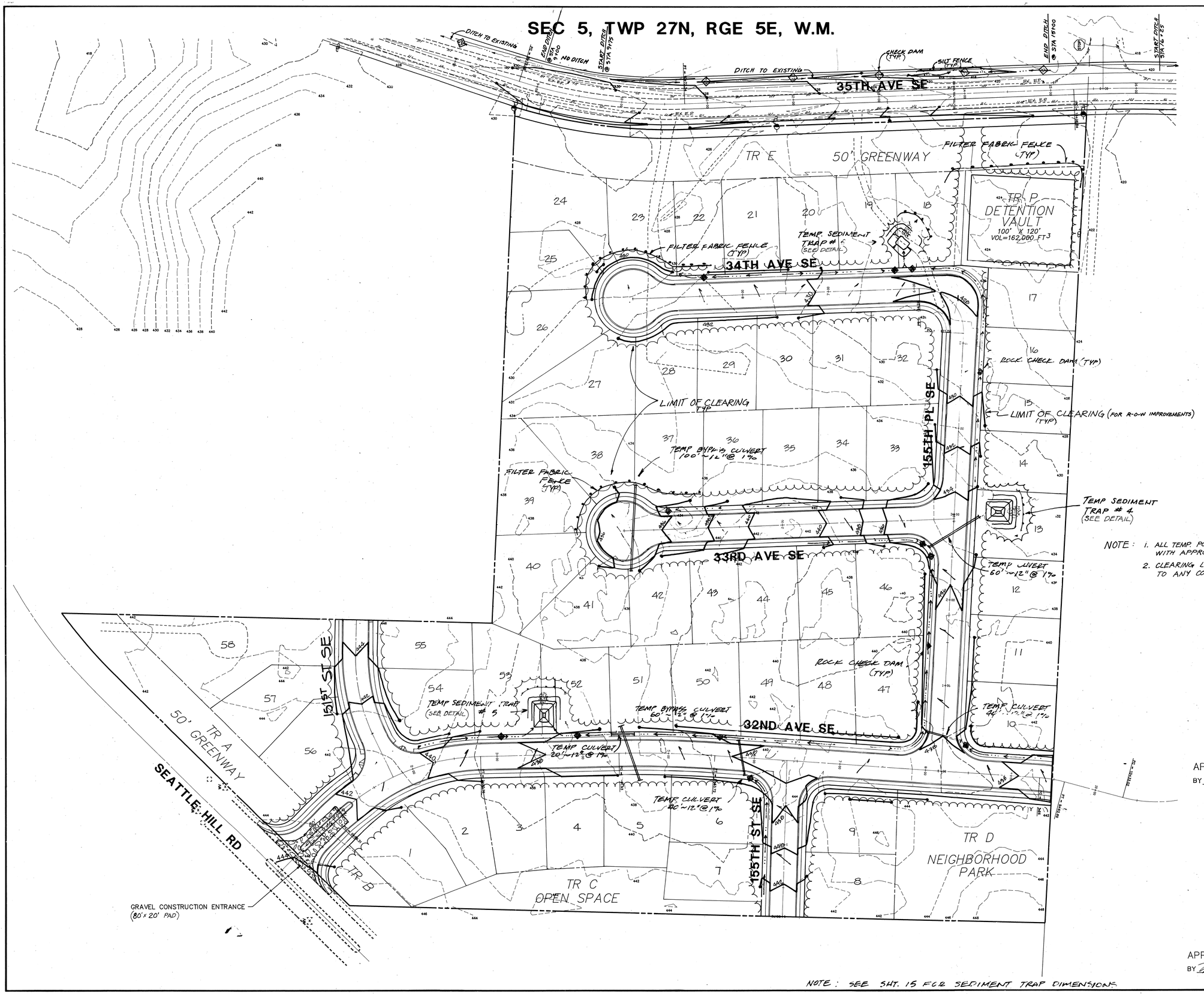
Sheet 12 of 16

Job No. 93129

THE PARKS

HDEV-336

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



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 _____ 26 Oct 93
PHASE 1 ONLY

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
5/18/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

NOTE: SEE SHT. 15 FOR SEDIMENT TRAP DIMENSIONS

DATE	REVISION	BY
9/24/93	PER CITY REVIEW	BRL
1/20/94	REV GRADING PER COUNTY REVIEW	JSC
2/9/94	REV LOT LINES, GRADING	BRL
4/18/94		LRC

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

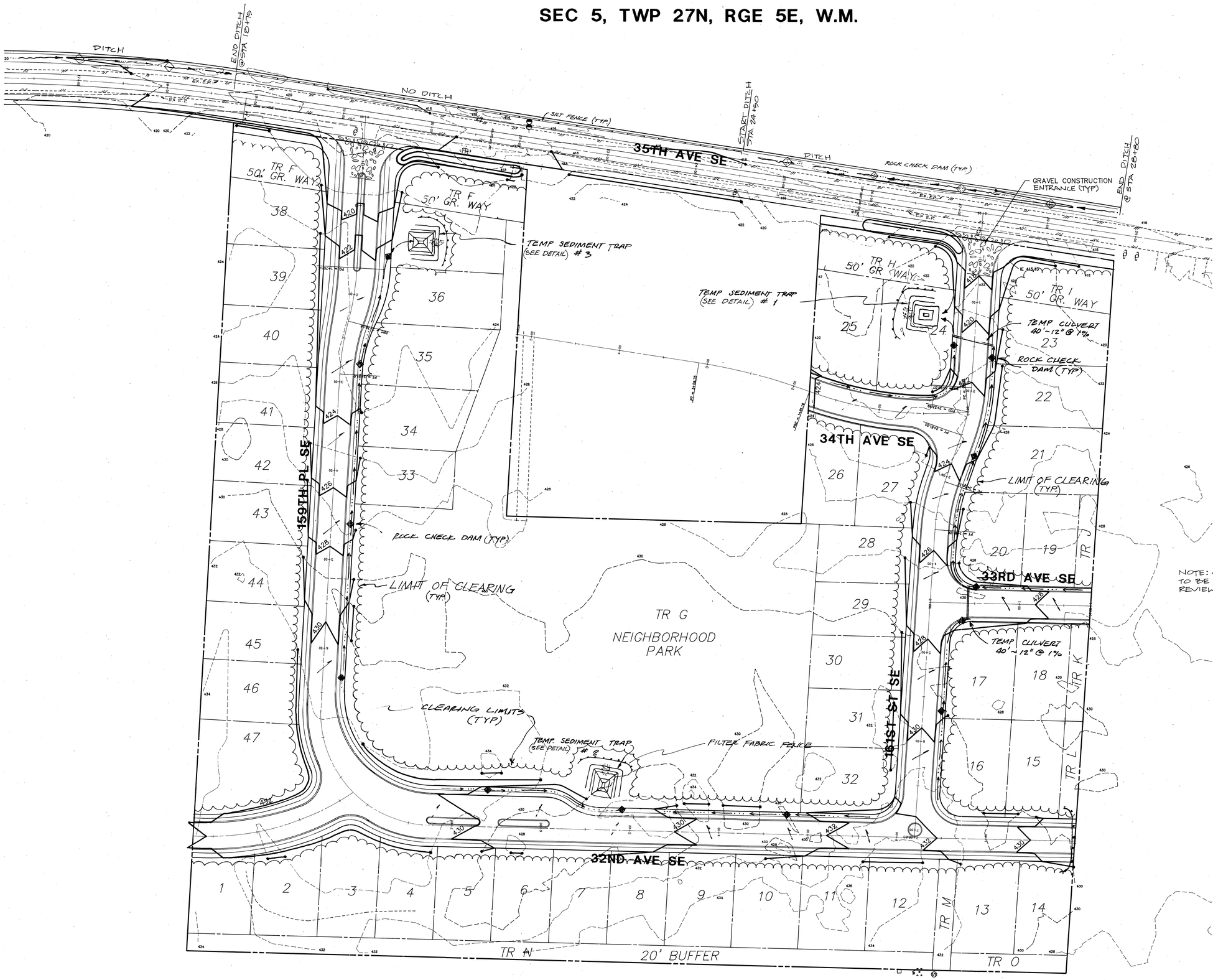
THE PARKS AT MILL CREEK
GRADING + TESCP PLAN
CITY OF MILL CREEK WASHINGTON

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 _____ 28 Oct 93
PHASE 1 ONLY

CERTIFIED OSTERGAARD STATE OF WASHINGTON 17177 REGISTERED PROFESSIONAL ENGINEER
8/18/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

NOTE: SEE SHT 15 FOR SEDIMENT TRAP DIMENSIONS

DATE	REVISION	BY
9/24/93	PER CITY REVIEW	BRL
1/20/94	REV GRADING	BRL
2/9/94	PER COUNTY REVIEW	BRL
3/7/94	ADDED NOTE	BRL
4/15/94	REV LOT LINES, GRADING	JPL

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

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

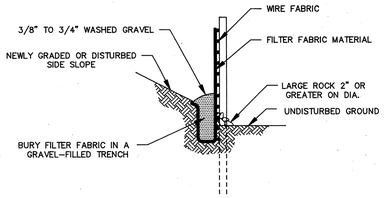
Designed ME Checked
Drawn ME Checked
As-built

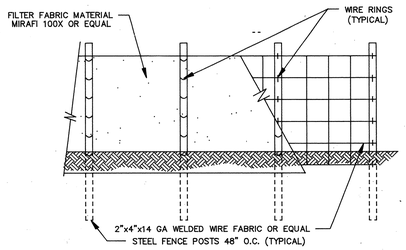
Sheet 14 of 16

Job No. 93129

HDEV-338

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

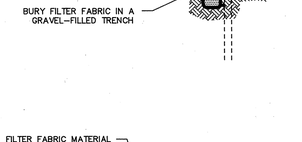




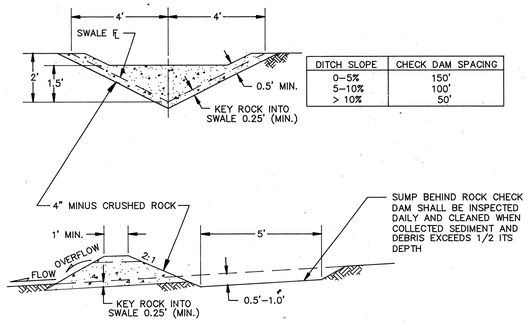
SILT FENCE DETAILS
NTS

MAINTENANCE OF SILTATION BARRIERS

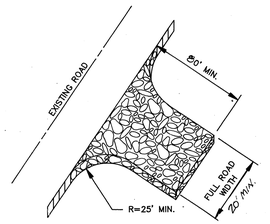
1. SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. 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.



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



ROCK CHECK DAM DETAILS
NTS



GRAVEL CONSTRUCTION ENTRANCE
NTS

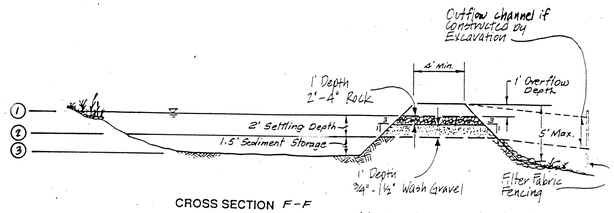
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

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.

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

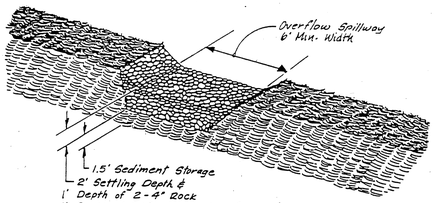
1. PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
2. THE TEMPORARY EROSION/SEDIMENTATION 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.

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			

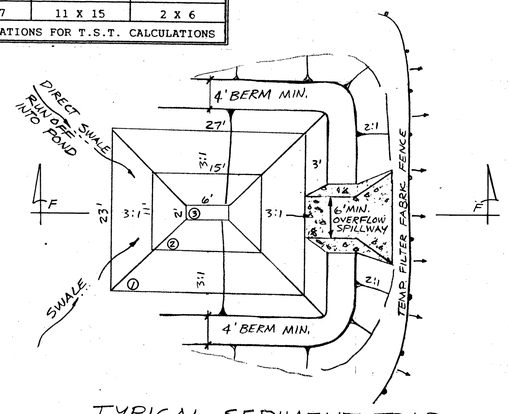


CROSS SECTION F-F
NO SCALE

Note: May be constructed by Excavation or by building a berm



SEDIMENT TRAP OUTLET
NO SCALE



TYPICAL SEDIMENT TRAP
SCALE 1" = 10'

8/18/93

EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 28 Apr 93
PHASE 1 ONLY

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

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

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

Designed KR
Checked KR
Drawn ME
Checked
As-built

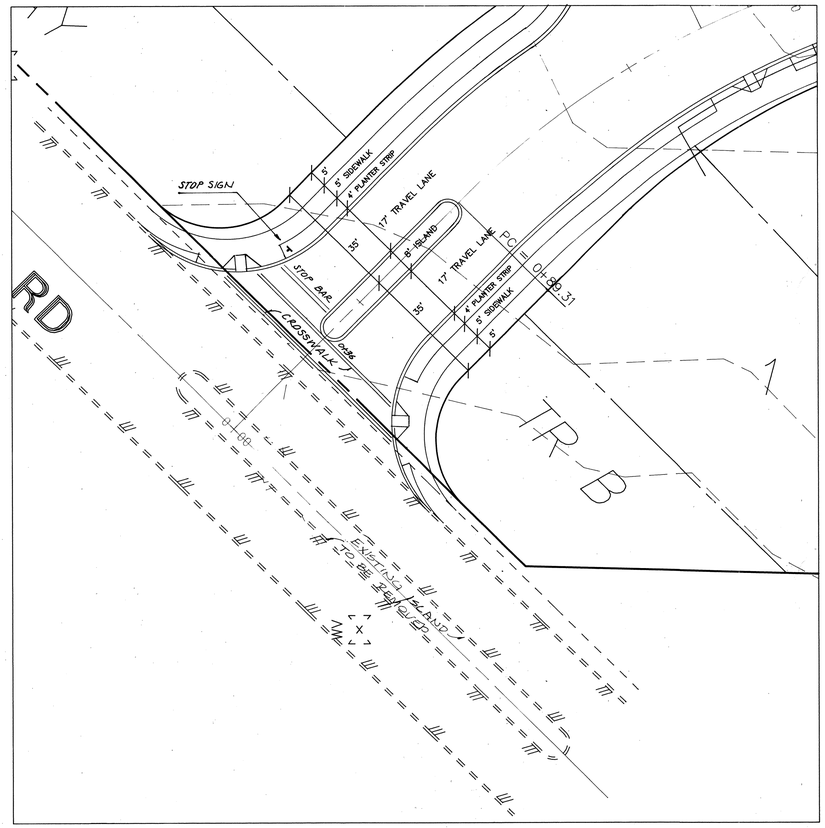
Sheet 15 of 16

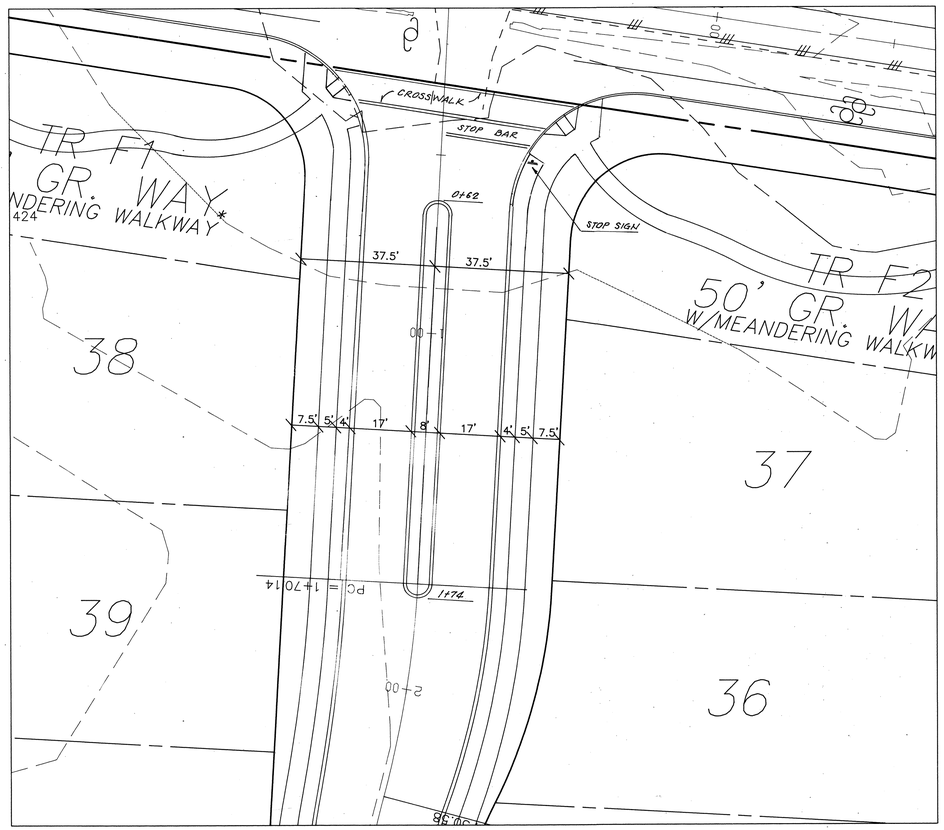
Job No. 93129

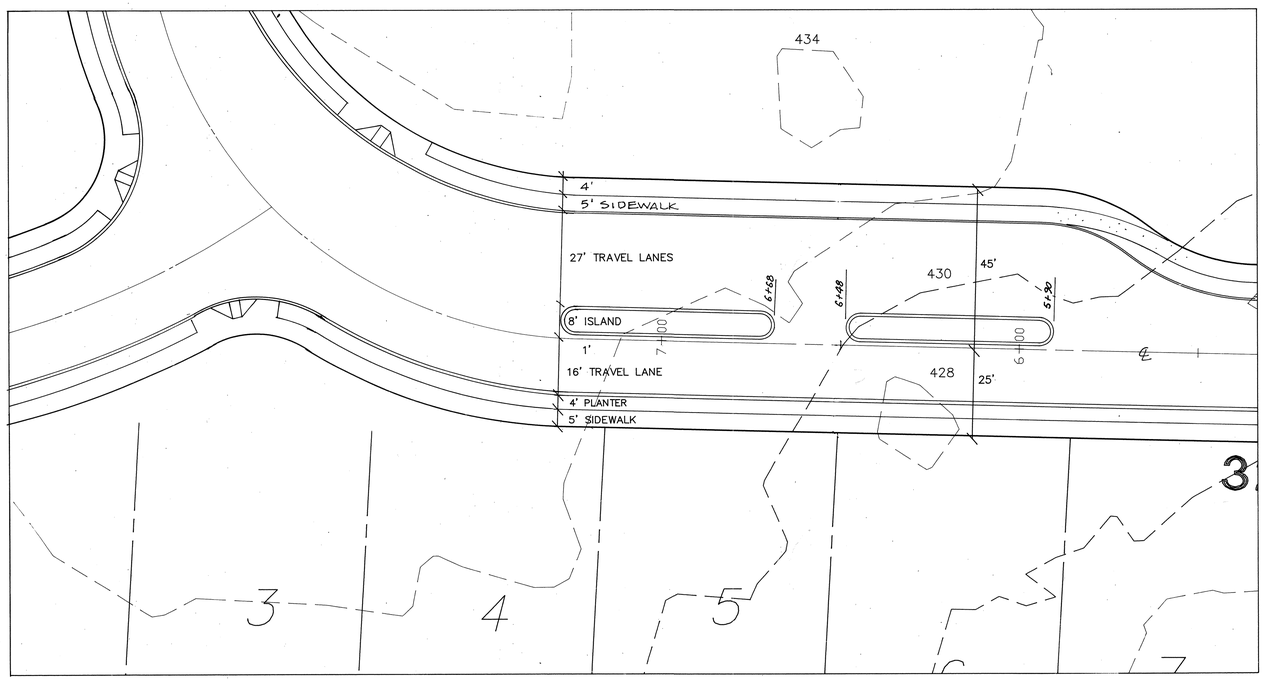
THE PARKS

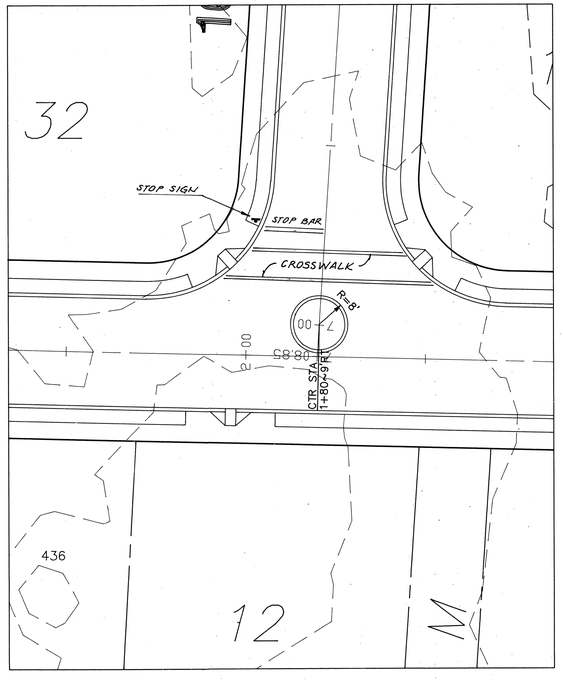
HDEV-339

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









SCALE: 1" = 20'

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 2/20/95
PHASE 1 ONLY

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED
PROFESSIONAL ENGINEER
9/27/93
EXPIRES 1/16/95

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____ 5/6/94

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

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
ISLAND DETAILS
CITY OF MILL CREEK WASHINGTON

Designed ME
Checked
Drawn ME
Checked
As-built

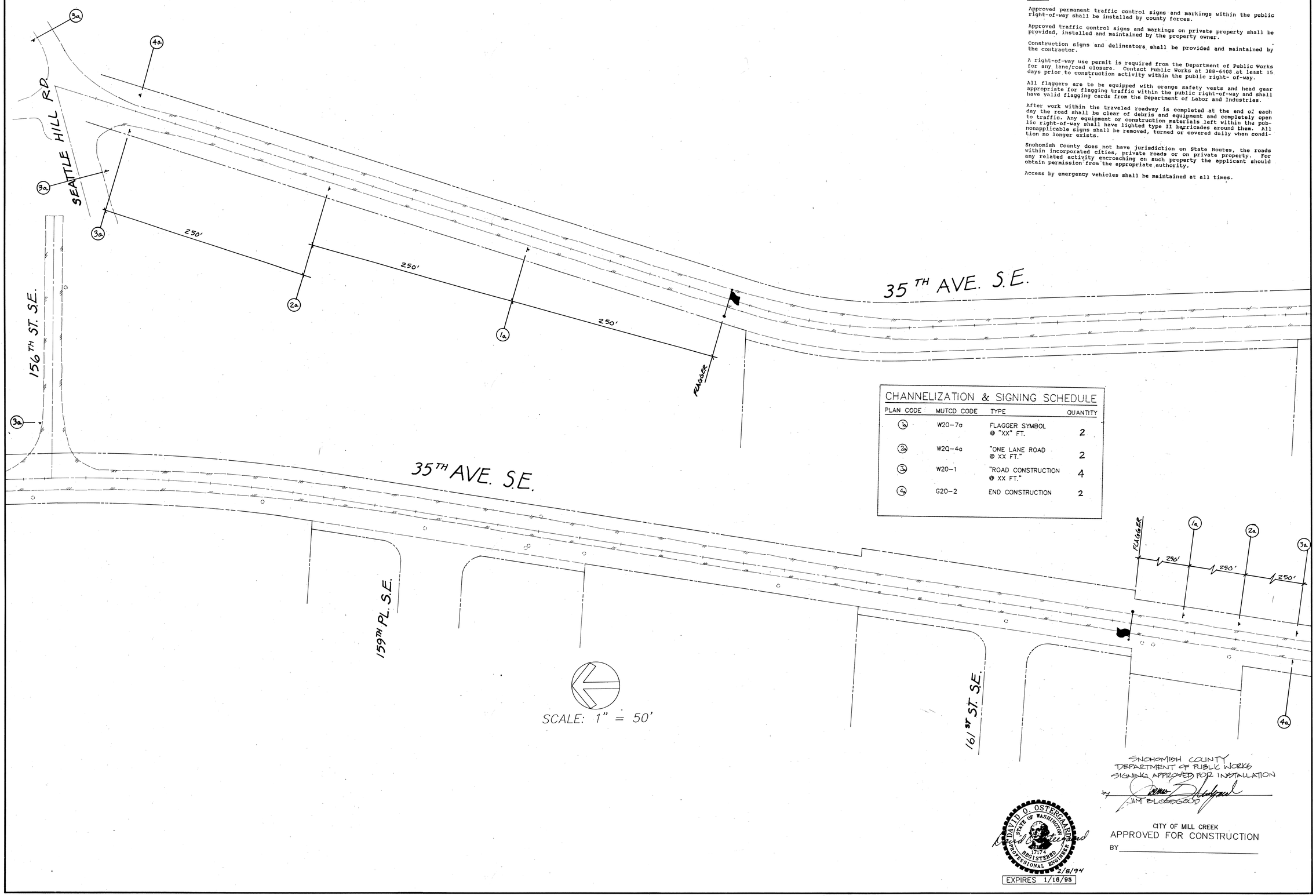
Sheet 16 of 16

Job No. 93129

THE PARKS

HDEV-340

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

CHANNELIZATION & SIGNING SCHEDULE

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

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
2/8/94
EXPIRES 1/16/95

SNOHOMISH COUNTY
DEPARTMENT OF PUBLIC WORKS
SIGNING APPROVED FOR INSTALLATION
by JIM BLOSDGOOD

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____

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

OSTERGAARD • ROBINSON & 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

Designed BRL
Checked
Drawn BRL
Checked
As-built

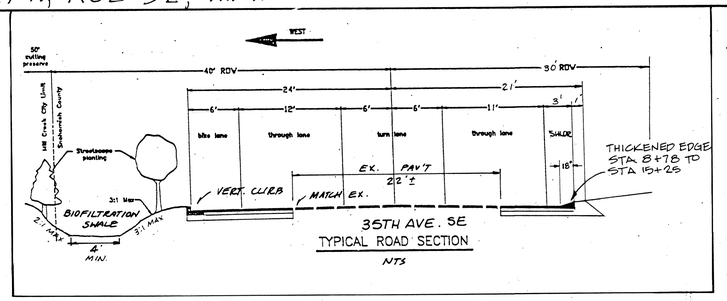
Sheet 1 of 1

Job No. 93129

THE PARKS

HDEV-341

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



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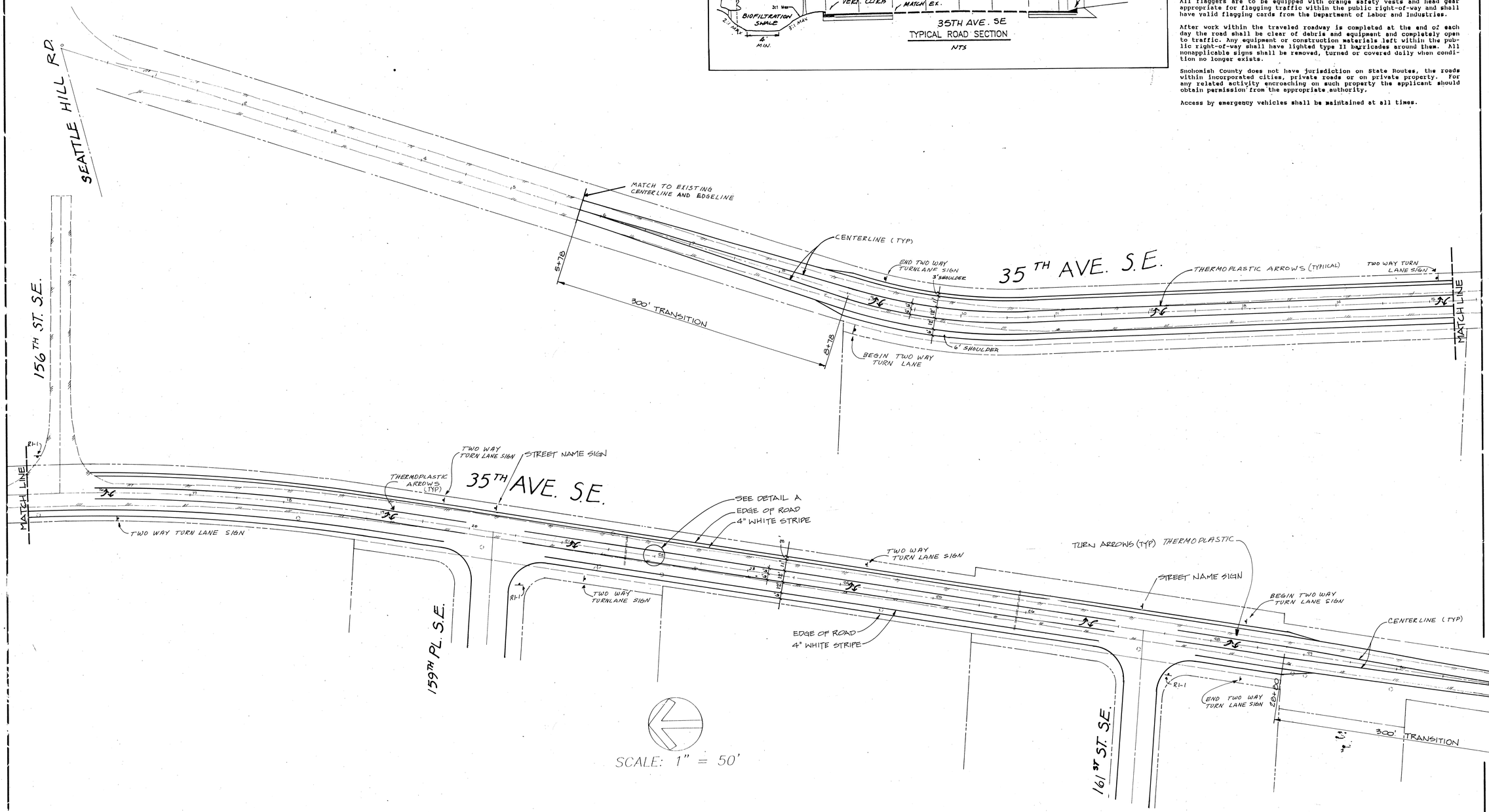
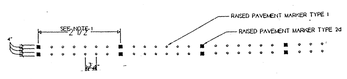




CENTER LINE RPM'S (TYP)

TWO WAY TURN LANE RPMS (TYP)

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

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
5/2/94
EXPIRES: 10/15

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY _____

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

OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
3705 COLBY AVE. #1
EVERETT, WA 98201
(206) 279-6445
BELLEVUE: (206) 827-5854

THE PARKS AT MILL CREEK SIGNING & CHANNELIZATION PLAN

WASHINGTON

CITY OF MILL CREEK

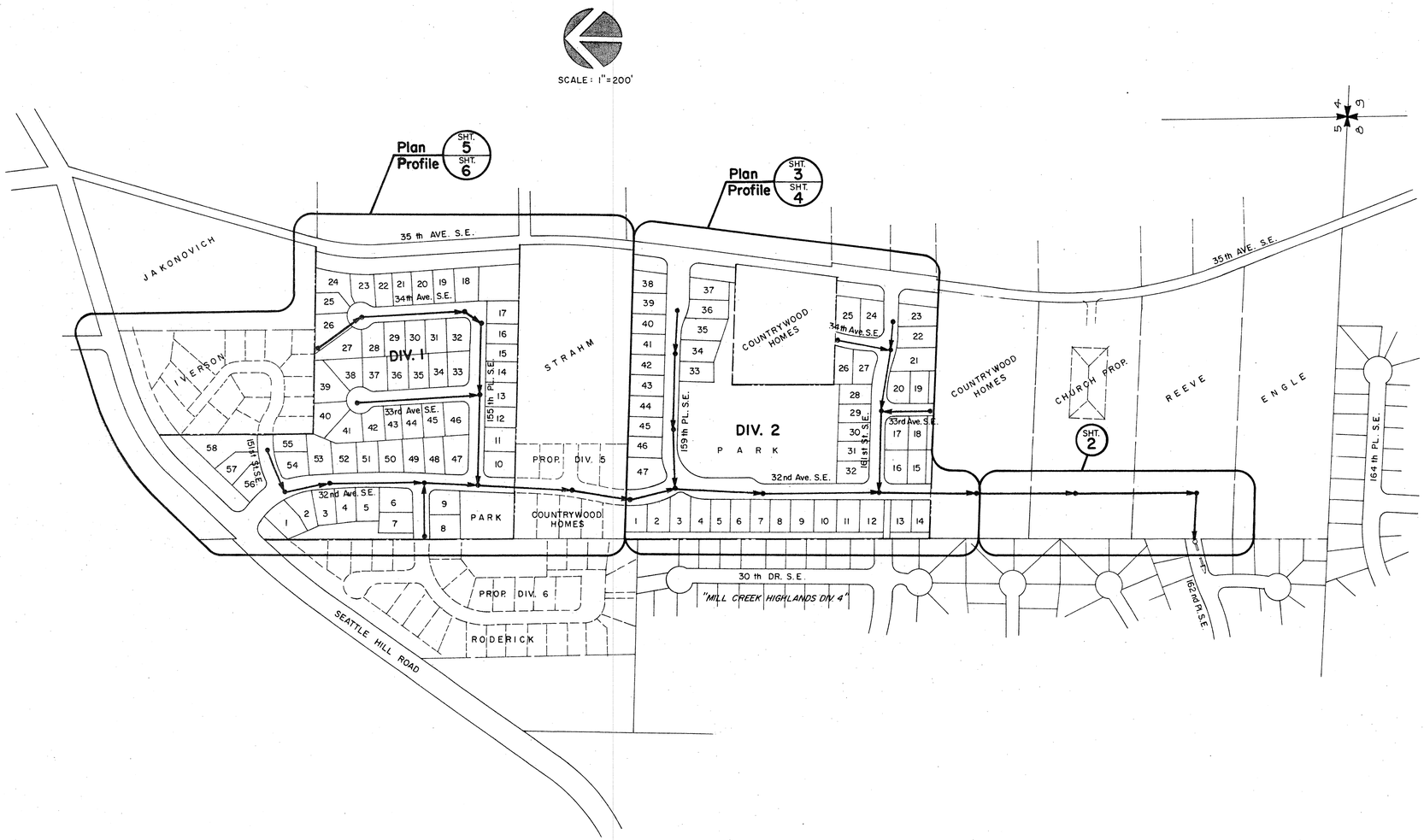
Designed BRL
Checked
Drawn BRL
Checked
As-built

Sheet 1 of 1

Job No. 93129

THE PARKS

HDEV-342



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.) (MFE 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 53. 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.

CONSTRUCT WATER AND SEWER FACILITIES PER ALDERWOOD WATER DISTRICT STANDARD DETAILS AND SPECIFICATIONS

BRIGITTE I. MCCOMAS
STATE OF WASHINGTON
26957
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 3/31/96

PRINTED
MAY 10 1994
A.W.D.

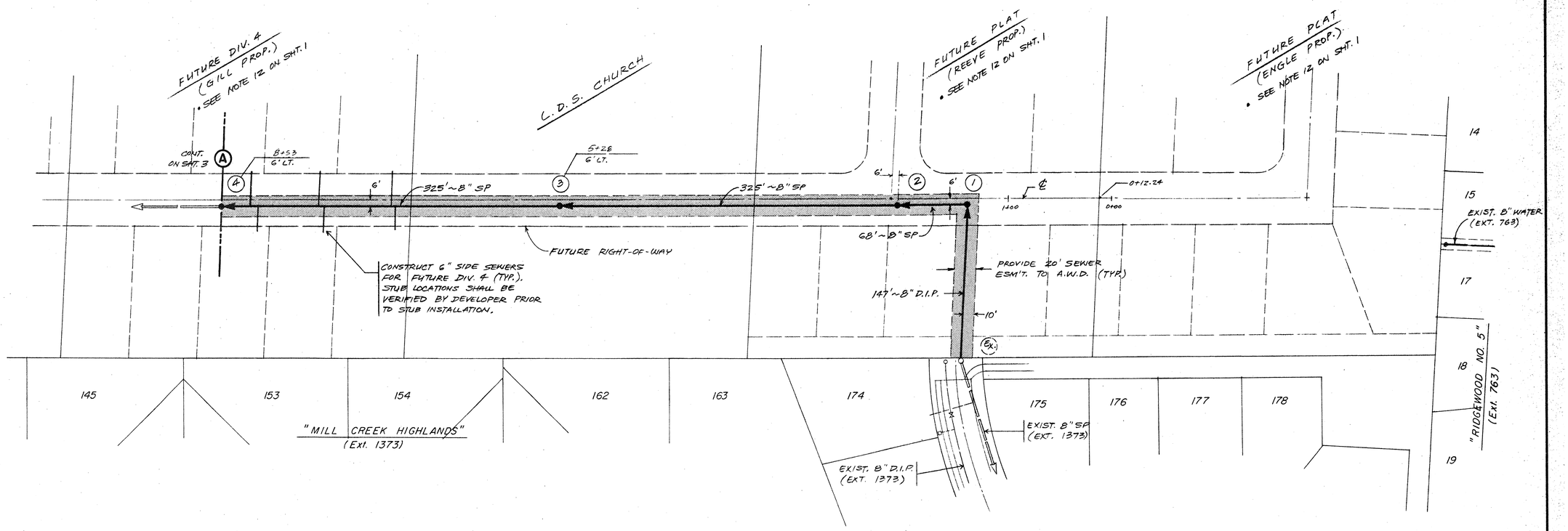
NE 4 & SE 4 5-27-5

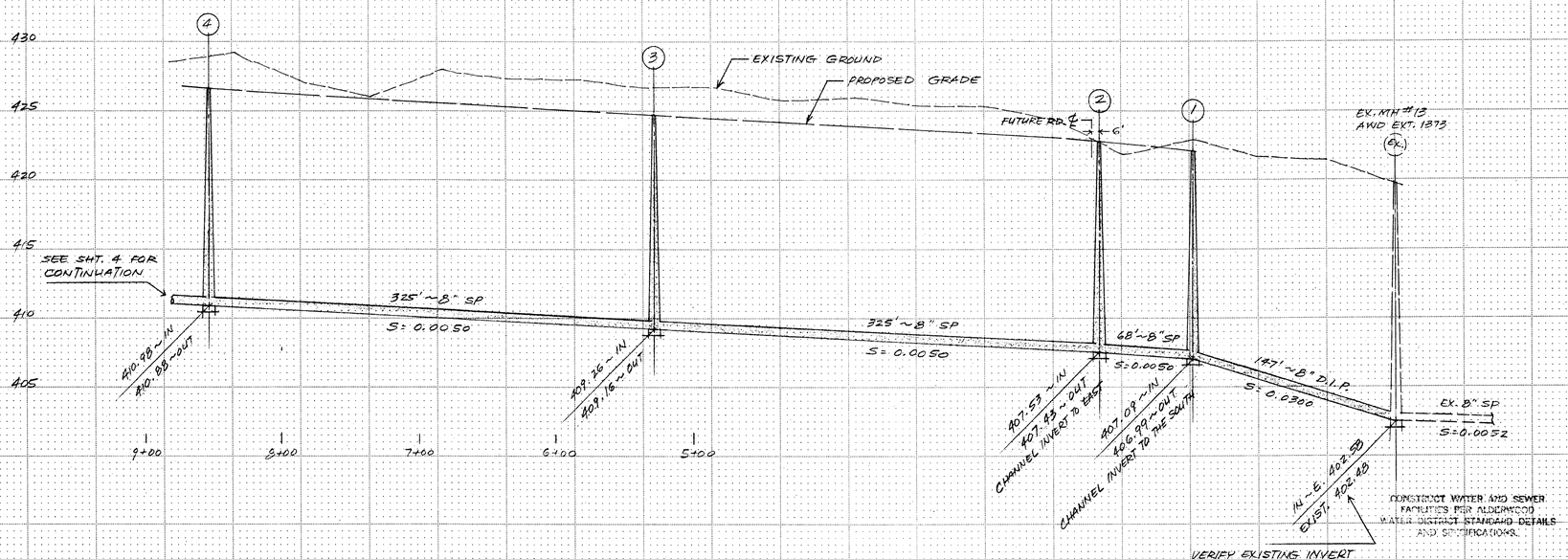
ALDERWOOD WATER DISTRICT 3626 - 156th ST. S.W. Lynnwood, Wash. 98036 743 - 4605	EXT. NO. 1614
	Scale: 1" = 200'
The Parks at Mill Creek Div. 1 & 2	Drawn: FD
	Date: MAY 10, 1994
	Designed: FD
	Approved: BIM
	Sheet: 1 of 6

THE PARKS HDEV-343

118872

1" = 50'





BRIGITTE I. MCCARTY
STATE OF WASHINGTON
24357
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 3/31/96

SE 5-27-5

ALDERWOOD WATER DISTRICT	**EXT. NO. 1614**
3626 - 156 th ST. S.W. Lynnwood, Wash. 98036	Scale: Hor. 1"=50; Ver. 1"=5'
743 - 4605	Drawn: FD
"OFFSITE SEWER"	Date: MAY 10, 1994
The Parks at Mill Creek Div. 1 & 2	Designed: FD
	Approved: BIM
	Sheet: 2 of 6

THE PARKS HDEV-344

SCALE: 1" = 50'

35 th AVE. S.E.

TR. F1

1 ~ 5¼" HYD. ASSY.
1 ~ 20'± SPOOL
1 ~ 8" MJ PLUG
BLOCK AS DIRECTED

MFF 425 — 38 — 1 ~ 6" MJ GV

MFF 425.8 — 39

PROVIDE 10' SIDE SEWER ESM'T. FOR LOT 38

TR. F2

MFF 425.5 — 37

2.0% ON ℄

PROVIDE 10' SIDE SEWER ESM'T. FOR LOT 37

MFF 425 — 36

40

MFF 425 — 35

150' ~ 8" D.I.P.

41

34 MFF 424.5

(13) 3+56, 6' LT.

42

33

680' ~ 6" D.I.P.

43

1" METER FOR PARK

237' ~ 8" SP

159th PL. S.E.

44

45

(12) 5+93, 6' LT.

193' ~ 8" SP

46

NEIGHBORHOOD PARK

TR. G

FUTURE DIV. 3 (STEVENS PROP.) *SEE NOTE 12 ON SHT. 1

1 ~ 2" BLOWOFF ASSY.

34th Ave. S.E.

PROVIDE 5'x5' WATER ESM'T. TO A.W.D. AROUND METERS OUTSIDE RIGHT/WAY (TYP.)

(9) 1+73, 6' LT.

TR. H

1 ~ 2" BLOWOFF ASSY. BLOCK AS DIRECTED

MFF 422 — 25 — 1 ~ 8" MJ GV

1 ~ 8" MJ x 6" FL TEE
1 ~ 6" FL x MJ GV

170' ~ 6" D.I.P. — 24

1 ~ 5¼" HYD. ASSY.
1 ~ 13'± SPOOL

26 27

TR. I

135' ~ 8" D.I.P. ("T" to "T")

23 MFF 421.5

(14) 1+57, 6' LT.

95' ~ 8" SP

INTERSECTION 2+29.89 = 0+00

22

(8) 2+48, 6' LT.

176' ~ 8" SP

21

200' ~ 8" SP

20 19 TR. J

210' ~ 8" D.I.P. INTER. to INTER. — 28

185' ~ 6" D.I.P.

INTER. 1+43.61 = 0+00

33rd Ave. S.E.

1 ~ 2" BLOWOFF ASSY.

1 ~ 8" MJ x 6" FL TEE
1 ~ 6" FL x MJ GV
1 ~ 8" MJ GV — 29

(7) 1+73, 6' RT.

(6) 4+50 (161st), 6' LT.

167' ~ 8" SP

161 st ST. S.E.

30

265' ~ 8" D.I.P.

17 18 TR. K

265' ~ 8" D.I.P. ("T" to "T") — 31

16

45' ~ 8" D.I.P.

15 TR. L

1 ~ 8" MJ x FL TEE
1 ~ 8" MJ GV
1 ~ 8" FL x MJ GV

INTER. 1+88.66 = 7+38.82

1 ~ 8" MJ x FL TEE
1 ~ 8" FL x MJ GV
1 ~ 8" MJ GV

1 ~ 8" MJ x FL TEE
1 ~ 8" MJ GV
1 ~ 8" FL x MJ GV — 32

1 ~ 5⅛" HYD. ASSY.
1 ~ 10'± SPOOL

180' ~ 8" D.I.P. ("T" to END)

FUTURE DIV. 5

1 ~ 6" MJ 22½° BEND

1 ~ 5¼" HYD. ASSY.
1 ~ 5'± SPOOL

STA. 12+88

(B) CONT. SHT. 4 — 47

INTER. 14+68.84 N = 8+20.67S = 7+71.89 E

645' ~ 8" D.I.P.

32 nd AVE. S.E.

10' MIN.

(14) 12+88, 6' RT.

(11) 14+35, 6' RT.

150' ~ 8" SP

165' ~ 8" D.I.P. VALVE to STA. 12+88

288' ~ 8" SP

(10) 5+49, 6' LT.

375' ~ 8" D.I.P.

1474, 6' LT. (5)

170'± ~ 8" D.I.P.

323' ~ 8" D.I.P.

1 ~ 8" MJ GV

0+00 M = 10+01.77

PROVIDE 20' SEWER ESM'T. TO A.W.D.

(A) CONT. SHT. 2

8+53, 6' LT. (4)

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

SEE PROFILE ON SHT. 4

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

1 2 3 4 5 6 7 8 9 10 — CONNECTION AS DIRECTED BY A.W.D.

11 12 13 14 — PROVIDE 20' WATER ESM'T. TO A.W.D.

REMOVE EXISTING BLOWOFF ASSY. CONNECT TO EXIST. 8" D.I.P. WITH:
1 ~ 8" MJ SLEEVE
1 ~ 8" MJ 45° BEND

1 ~ 8" MJ 45° BEND

"OFFSITE SEWER."

TR. N

PROVIDE WATER ESM'T. TO A.W.D.

TR. O

TR. M

134 135 136 137 138 139 140 141 142 143 144

"MILL CREEK HIGHLANDS DIV. 4" (Ext. 1373)

EXIST. 8" D.I.P. (EXT. 1373)

EXIST. 8" SP (EXT. 1373)

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

CONSTRUCT WATER AND SEWER FACILITIES PER ALDERWOOD WATER DISTRICT STANDARD DETAILS AND SPECIFICATIONS.

BRIGITTE I. McCARTY — STATE OF WASHINGTON — 16957 — REGISTERED PROFESSIONAL ENGINEER — 9/10/94

EXPIRES 3/31/95

SE 4 5-27-5

118872

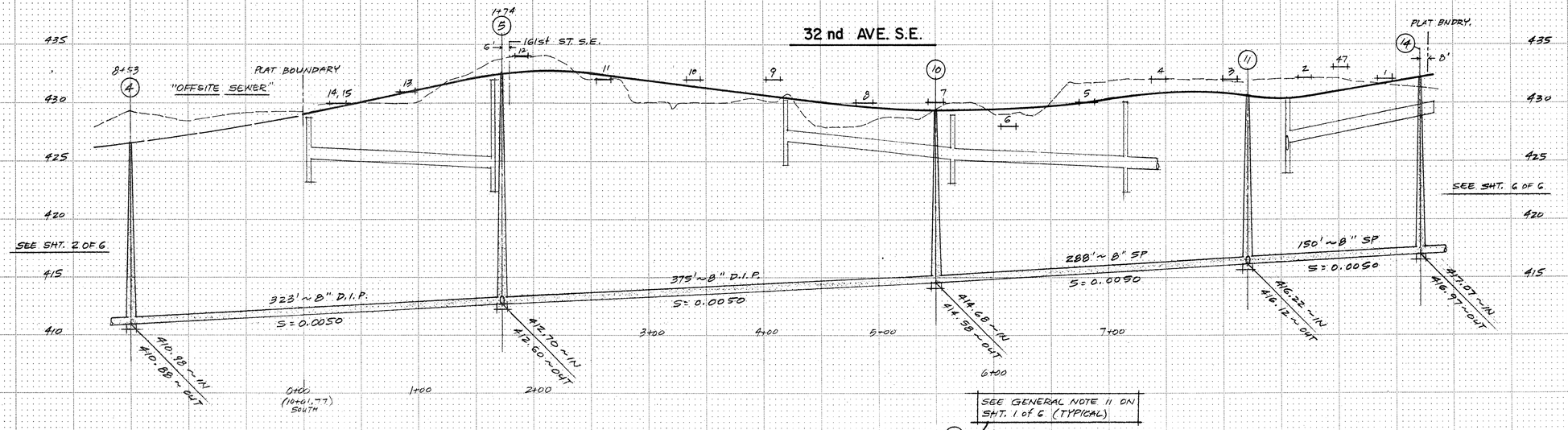
ALDERWOOD WATER DISTRICT
3626 - 156 th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

The Parks at Mill Creek Div. 1 & 2

EXT. NO. 1614	
Scale:	1" = 50'
Drawn	FD
Date	MAY 10, 1994
Designed	FD
Approved	BIM
Sheet	3 of 6

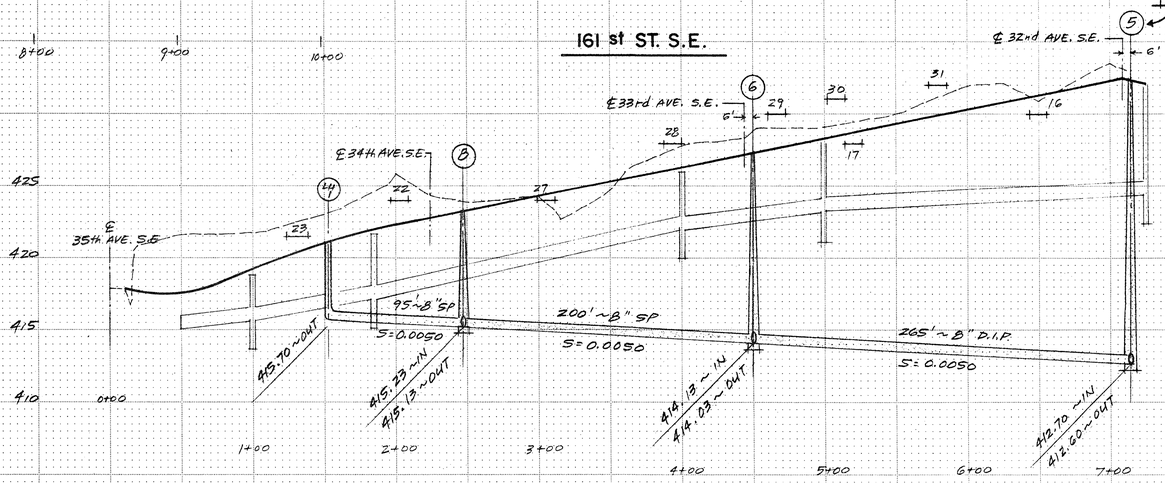
THE PARKS HDEV-345

32 nd AVE. S.E.

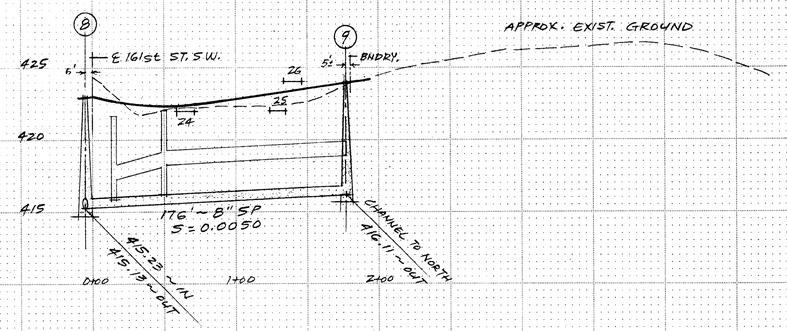


SEE GENERAL NOTE 11 ON SHT. 1 of 6. (TYPICAL)

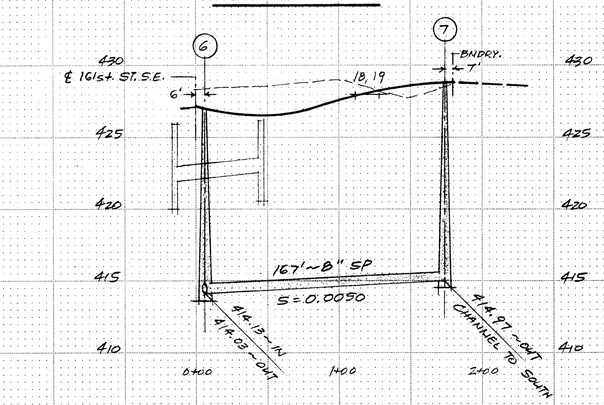
161 st ST. S.E.



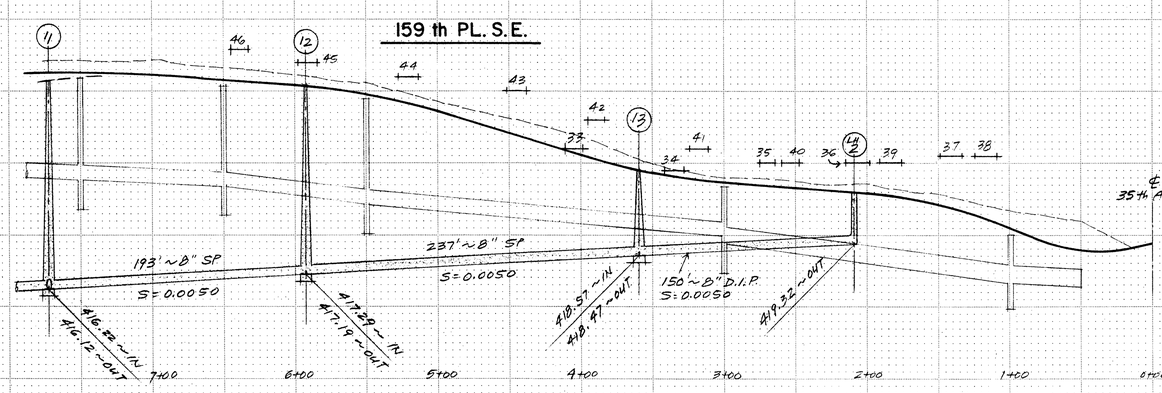
34th AVE. S.E.



33 rd AVE. S.E.



159 th PL. S.E.



CONSTRUCT WATER AND SEWER
PER THE ALDERWOOD WATER DISTRICT
WATER DISTRICT STANDARD DETAILS
AND SPECIFICATIONS.

5/9/96

BRIGITTE F. McCARTY
STATE OF WASHINGTON
26957
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 3/31/96

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

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	FD
Approved	BM
Sheet	4 of 6

THE PARKS HDEV-346

SCALE: 1" = 50'

35 th AVE. S.E.

TR. 'E'

TR. 'P'

DETENTION VAULT

34th AVE. S.E.

33rd AVE. S.E.

32nd AVE. S.E.

155th PL. S.E.

155th ST. S.E.

151st ST. S.E.

SEATTLE HILL ROAD

TR. 'A'

TR. 'C'

TR. 'D'

PARK

JOKANOVICH PROP.

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

UNDEVELOPED (SEE NOTE 12, SHT. 1)

FUTURE

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

MFF 431 — 24
MFF 430 — 23
MFF 430 — 22
MFF 430 — 21
MFF 429 — 20
MFF 428.5 — 19
MFF 428 — 18
MFF 430.5 — 25
MFF 430.5 — 26
MFF 428 — 17
MFF 427.5 — 16
MFF 427.5 — 15

1~5½" HYDRANT ASSY
1~12'± SPOOL
SEE NOTE 3, SHT. 1

1~2" BLOWOFF ASSY.

337'~8" SP

(21) 9+23, 6' LT.

(20) 5+86, 6' LT.

(19) 5+17, 6' RT.

2~6" MJ 45° BENDS STA. 5+76± ; 5+47±

64'~8" D.I.P.

PROVIDE 12' SEWER ESM'T. TO A.W.D.

186'~8" D.I.P.

(22)

FUTURE

665'~6" D.I.P. VALVE to BLOWOFF

1~8" MJ x 6" FL TEE
1~6" FL x MJ GV
1~8" PE x 6" PE REDUCER
1~6" MJ GV

228'~8" SP

1~5½" HYD. ASSY.
1~10'± SPOOL

415'~6" D.I.P.

INTER. 2+94.85 = 0+00

(17) 2+89, 6' RT.

(18)

400'~8" SP

295'~8" D.I.P.

1~2" BLOWOFF ASSY

1~2" BLOWOFF ASSY

SEE PROFILE ON SHT. 6

PROVIDE 10' WATER ESM'T. TO A.W.D.

185'~8" D.I.P.

144'~8" SP

(27) 1+42, 6' RT.

INTER. 1+75.31 = 0+00

460'~8" D.I.P. TEE to TEE

10' MIN. (TYP.)

1~8" MJ x FL TEE
1~8" FL x MJ GV

INTER. 6+38.02 = 0+00

180'~8" D.I.P. TEE to TEE

1~5½" HYD. ASSY.
1~10'± SPOOL

480'~8" D.I.P.
STA. 12+88 to VALVE

1~5¼" HYD. ASSY
1~22'± SPOOL

230'~8" D.I.P. TIE-IN to TEE

150'~8" SP

(25) 3+40, 6' RT.

302'~8" SP

(26) 1+86, 6' RT.

SEE NOTE 2, SHT. 1 (TYP.)

1~8" MJ x FL TEE
1~8" FL x MJ GV
1~8" MJ GV

(23) 6+44, 6' RT.

180'~8" SP

INTER. 8+18 = 0+00

1" METER

(16) 8+24, 6' RT.

1~8" MJ x FL TEE
1~8" FL x MJ GV
2~8" MJ GV

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

CONT. SHT. 3

(B) STA. 12+88

294'~8" D.I.P.

170'~8" SP

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

(15) 11+18, 6' RT.

(14) 12+88, 6' RT.

"OFFSITE SEWER"

FUTURE DIV. 5
"COUNTRYWOOD HOMES"

2~8" MJ 45° BENDS BLOCK AS DIRECTED

1~2" BLOWOFF ASSY.

190'~8" D.I.P.

179'~8" SP

(24) 1+79~6' LT.

295'~8" D.I.P.

REMOVE EXISTING BLOWOFF ASSY, CONNECT TO EXIST. 8" D.I.P. WITH:

1~8" MJ TEE
1~8" MJ GV
1~8" MJ PLUG

TEMPORARY BLOCK, TEST & PURIFY PRIOR TO CONNECTION.

CONNECT AS DIRECTED BY A.W.D.

Ex. 8" D.I.P. (AWD 178-90)

CONSTRUCT WATER AND SEWER FACILITIES PER ALDERWOOD WATER DISTRICT STANDARD DETAILS AND SPECIFICATIONS

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

"MILL CREEK HIGHLANDS DIV. 4" (EST. 1973)

BRIGITTE I. MACARTY
STATE OF WASHINGTON
16833
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 3/31/96

NE 4 5-27-5

ALDERWOOD WATER DISTRICT 3626 - 156 th ST. S.W. Lynnwood, Wash. 98036 743 - 4605	EXT. NO. 1614
The Parks at Mill Creek Div. 1 & 2	Scale: 1" = 50' Drawn: FD Date: MAY 10, 1994 Designed: FD Approved: BIM Sheet: 5 of 6

THE PARKS HDEV-347

116672

℄ SEATTLE HILL RD.

32nd AVE. S.E.

℄ 151st Pl. S.E.

150'~8" SP
S=0.0156

435.00~IN
432.90~OUT

302'~8" SP
S=0.0080

430.56~IN
430.46~OUT

180'~8" SP
S=0.0080

428.09~IN
427.94~OUT

DROP MANHOLE

SEE NOTE 11 ON SHT. 1

155th Pl. S.E.

℄ FUTURE RD.

PLAT BNDRY.

426.50~IN

294'~8" D.I.P.
S=0.0050

170'~8" SP
S=0.0050

419.59~IN
419.49~OUT

418.02~IN
417.92~OUT
CHANNEL TO THE EAST

417.07~IN
416.97~OUT

SEE SHT. 4

155 th PL. S.E.

DROP MANHOLE

℄ 32nd AVE. S.E.

℄ 33rd AVE. S.E.

426.50 DROP N.

295'~8" D.I.P.
S=0.0050

419.59~IN
419.49~OUT

228'~8" SP
S=0.0050

421.17~IN
421.07~OUT

34th AVE. S.E.

CB 20A
INLET 25

422.41~IN
422.31~OUT

64'~8" D.I.P.
S=0.0050

422.83~IN
422.73~OUT

337'~8" SP
S=0.0050

℄ CUL-DE-SAC

424.62~IN
424.52~OUT

186'~8" D.I.P.
S=0.0050

425.55
CHANNEL TO NW.

FILL AS REQ'D. TO MAINTAIN A MIN. MH DEPTH OF 5 FT.

33rd AVE. S.E.

℄ 156th Pl. S.E.

400'~8" SP
S=0.0186

422.60~OUT

421.17~IN
421.07~OUT

151st ST. S.E.

℄ 32nd AVE. S.E.

144'~8" SP
S=0.0174

433.00~IN
432.90~OUT

435.50~OUT

155th ST. S.E.

℄ 32nd AVE. S.E.

173'~8" SP
S=0.0230

428.04~IN
427.94~OUT

432.02
CHANNEL TO W.

CB 20A
INLET 25

8" SEWER

CHARLOTTE I. MORRY
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 3/31/96

5/10/94

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

The Parks at Mill Creek Div. 1 & 2

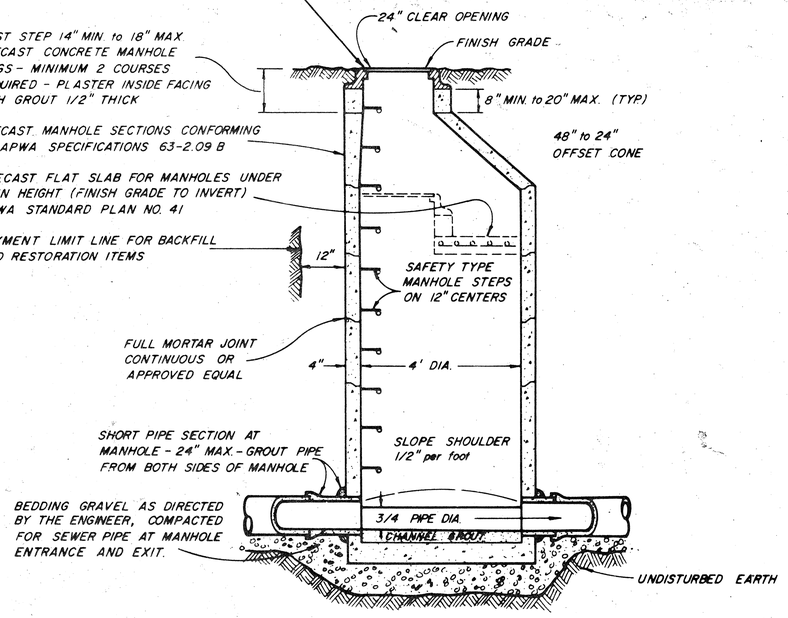
EXT. NO. 1614

Scale:	Hor. 1"=50'; Vert. 1"=5'
Drawn	FD
Date	MAY 10, 1994
Designed	FD
Approved	BM
Sheet	6 of 6

THE PARKS HDEV-348

MANHOLE COVERS SHALL BE:

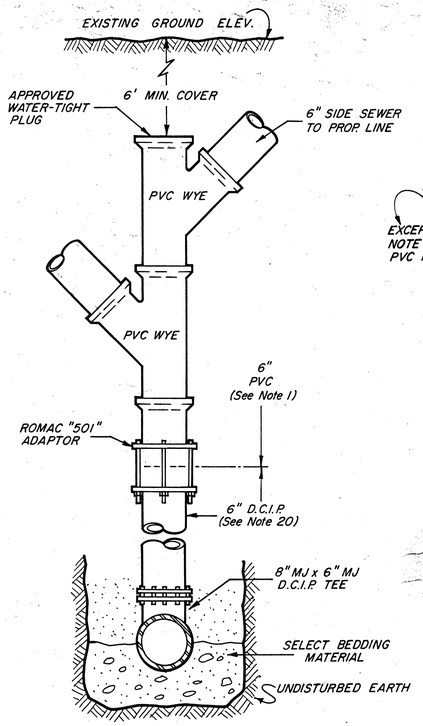
- SATHER MFG. CO. INC. MODEL AWD-2440 FRAME & LID WITH CAST-IN HANDLE & 3 – 5/8" STAINLESS STEEL ALLEN HEAD CAP SCREWS OR APPROVED EQUAL. MFG'S. NAME SHALL BE CAST IN COVER.



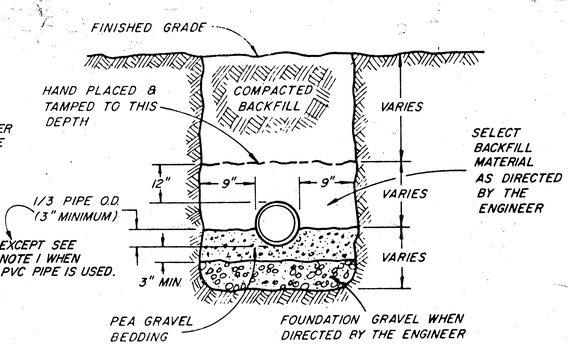
SANITARY SEWER MANHOLE

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.

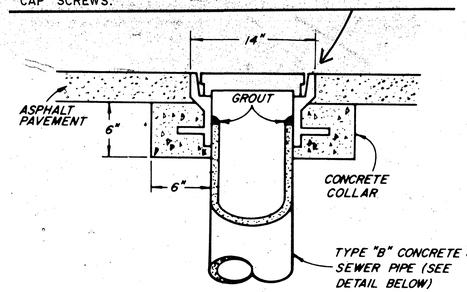


DUCTILE CAST IRON PIPE STANDING SIDE SEWER



TYPICAL TRENCH DETAIL

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

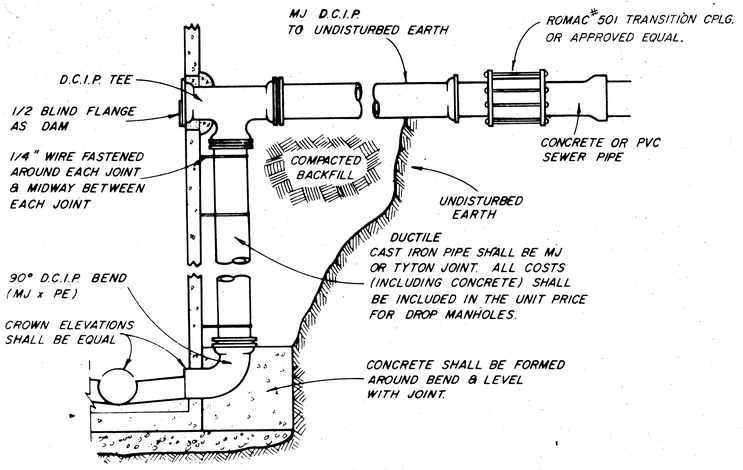


LAMPHOLE

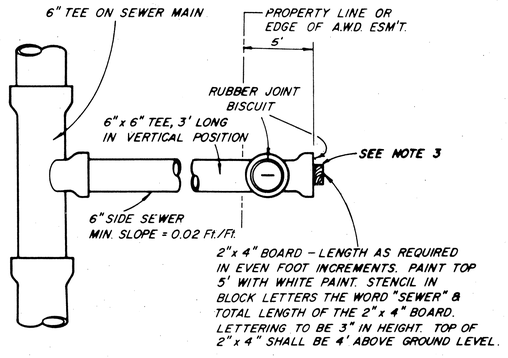
STREET USE

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.
   (c.) DEPTH DOES NOT EXCEED 16 FEET.
   (d.) TOP OF BEDDING IS EXTENDED TO 4" ABOVE PIPE.
   (e.) CONNECTIONS TO MANHOLES ARE MADE WITH AC MANHOLE COUPLING.
   (f.) 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 ACCOMODATE 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 S.S. 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 CHANNELED, MAINS FLUSHED AND WATER RUN IN LINE WHEN TELEVISED, 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



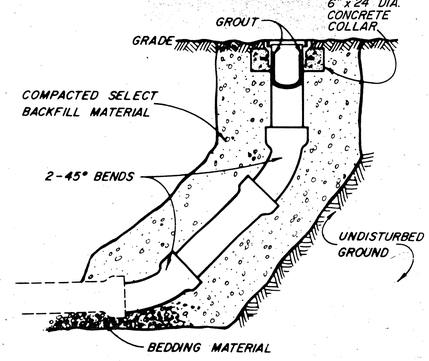
DROP MANHOLE CONNECTION



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.



LAMPHOLE

EASEMENT USE

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 (d.) 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

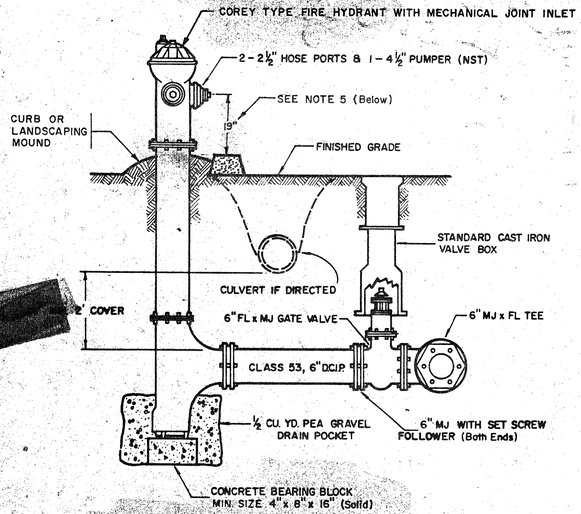
ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. Lynnwood, Wash. 98036
743 - 4605

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

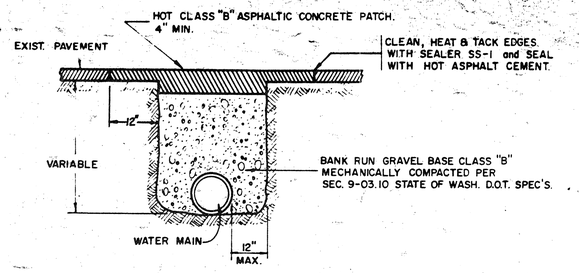
THE PARKS

HDEV-349



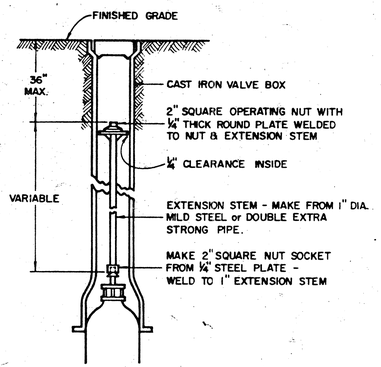
HYDRANT ASSEMBLY

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.

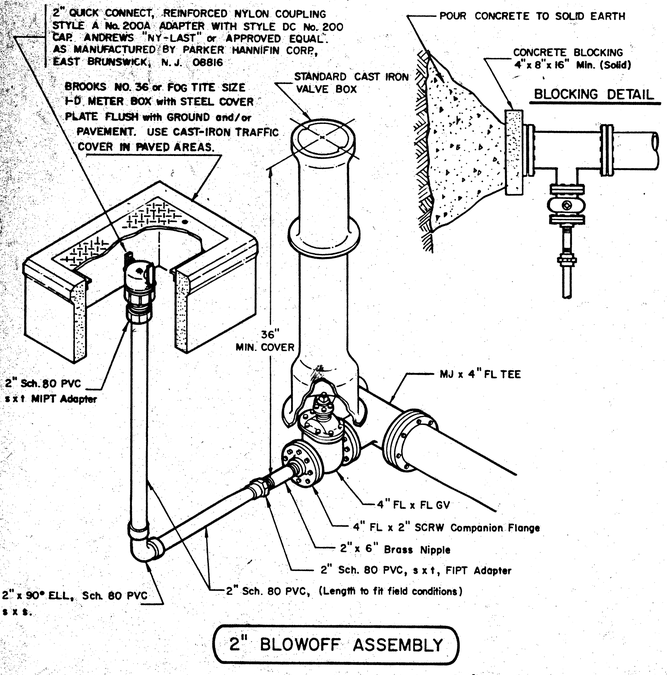


RESTORATION & BACKFILL ACROSS PAVED AREAS

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.

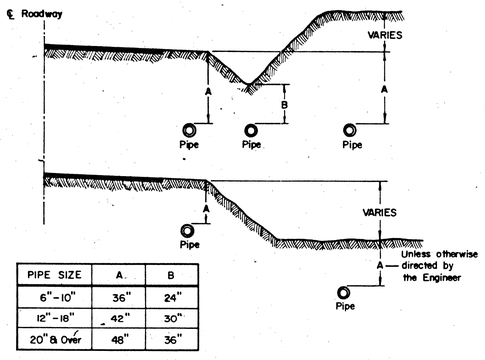


VALVE EXTENSION STEM



2" BLOWOFF ASSEMBLY

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



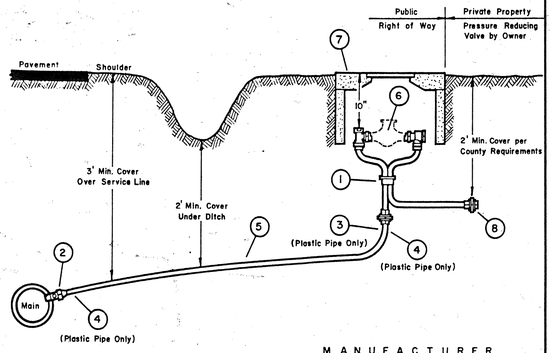
PIPE SIZE	A.	B
6"-10"	36"	24"
12"-18"	42"	30"
20" & Over	48"	36"

STANDARD DEPTH REQUIREMENTS

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

¾" & 1" Meter Service Installation

ALDERWOOD WATER DISTRICT



MANUFACTURER

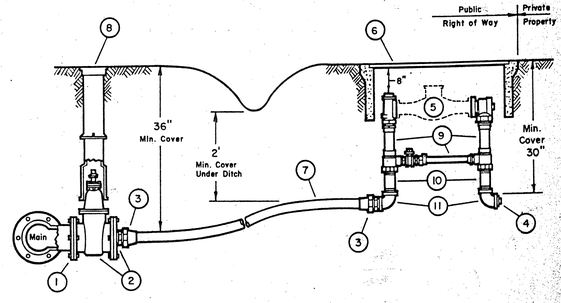
NO.	ITEM	MATERIAL	SIZE	FORD	MUELLER	JONES	HAYS
1	METER SETTER	COPPER	¾"	¾" x 5/8" METER SETTER, FORD VBH 92-12 x 15 EXTENSION with Vertical Inlet, or an approved equal.			
		COPPER	1"	1" METER SETTER, FORD VBH94-15 x 15 EXTENSION with Vertical Inlet, or an approved equal.			
2	CORPORATION STOP	FOR COPPER SERVICE	¾"	F600	H-15000	J-1500	5200
			1"	F600	H-15000	J-1500	5200
		FOR PLASTIC SERVICE	¾"	F400	H-9996	J-45	5281
			1"	F400	H-9996	J-45	5281
3	MIP x INSERT (Plastic Size)	BRASS	¾"	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	¾"	COMBO-HEX IDEAL No. 6816			
			1"				
5	PIPE	PLASTIC (Under 100 PSI)		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. 7S-CR, Type K			
6	METER (Furnished by A.W.D.)						
7	METER BOX		¾"	FOG TITE B 9 1/2 H or T; or BROOKS 37H or T			
			1"	FOG TITE B 10 H or T			
8	PLUG SIZE X M.I.P.						

NOTES:
1. SPLICES - No Splices under blacktop, 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.

1½" & 2" Meter Service Installation

ALDERWOOD WATER DISTRICT

SEE NOTE 3



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 1½" with Brass Bushing) SCRW Reduction Flange.	A.W.W.A.	
3	Flared Copper Cplg. (Copper x M.I.P.T.)	Brass	FORD: 1½"; 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 2T or Brookes 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		1½", 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 blacktop, Maximum of one splice allowed. Use Mueller Union H-15400 or approved equal.
2. See Service Connection Specification Sheet (sht. 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.

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.

PHILIP J. BLUNCK — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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 1½" & 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	Mar. 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. 1½" & 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

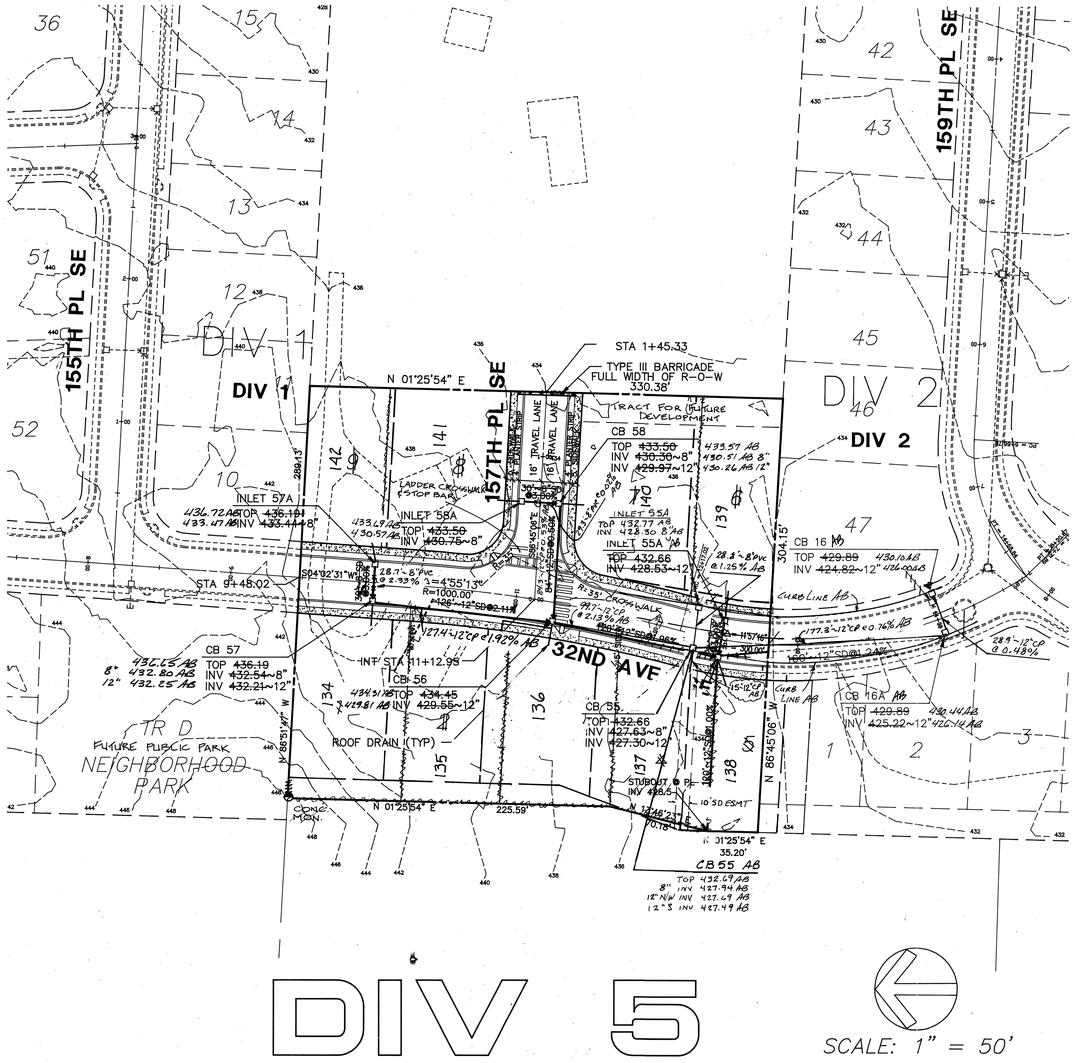
ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. - Lynnwood, Wash.
743 - 4605 98036

STANDARD WATER DETAILS

Scale:	Not to Scale
Drawn	FD
Date	APRIL, 1981
Designed	ENGR. DEPT.
Approved	PJB
Sheet	OF

THE PARKS HDEV-350

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



DIVISION 5

AS BUILT
AS INDICATED BY "AB"

DAVID O. OSTERGAARD
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 1/16/95
9/21/94

APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER — DATE 26 Sept 94

DATE	REVISION	BY
9/07/94	PER CITY STORM ASBUILTS	LDR
5/31/96	LOTS - 1 REVISIONS	MER
1/31/97		MGE

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 DRAINAGE PLAN
CITY OF MILL CREEK WASHINGTON

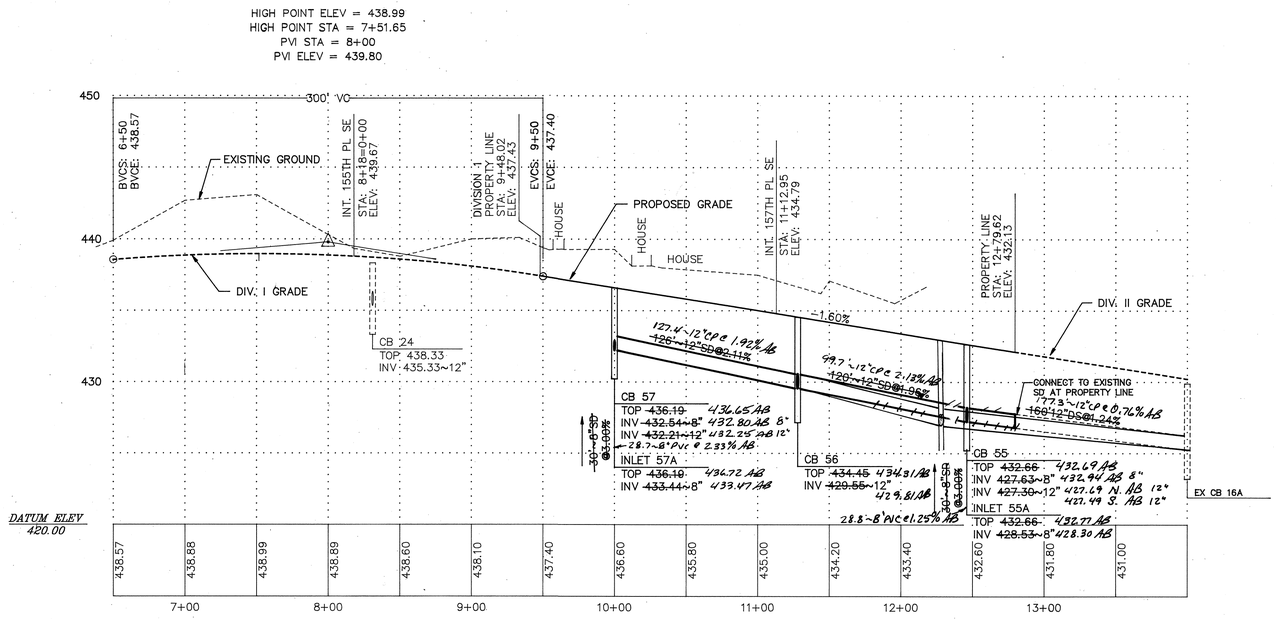
Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 4 of 12

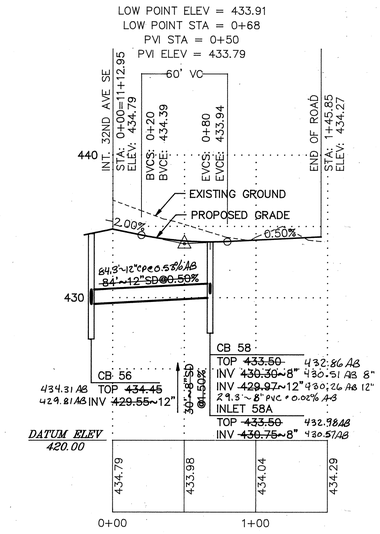
Job No 93129

THE PARKS HDEV-351

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



32ND AVENUE SE



157TH PL SE

DIV 5

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

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
9/21/94
EXPIRES 1/16/95

AS BUILT
AS INDICATED BY "AB"

APPROVED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER — DATE 26 Sept 94

DATE	REVISION	BY
9/07/94	PER CITY	LDR
5/5/96	STORM REVISIONS	MER

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

DIVISION 5

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

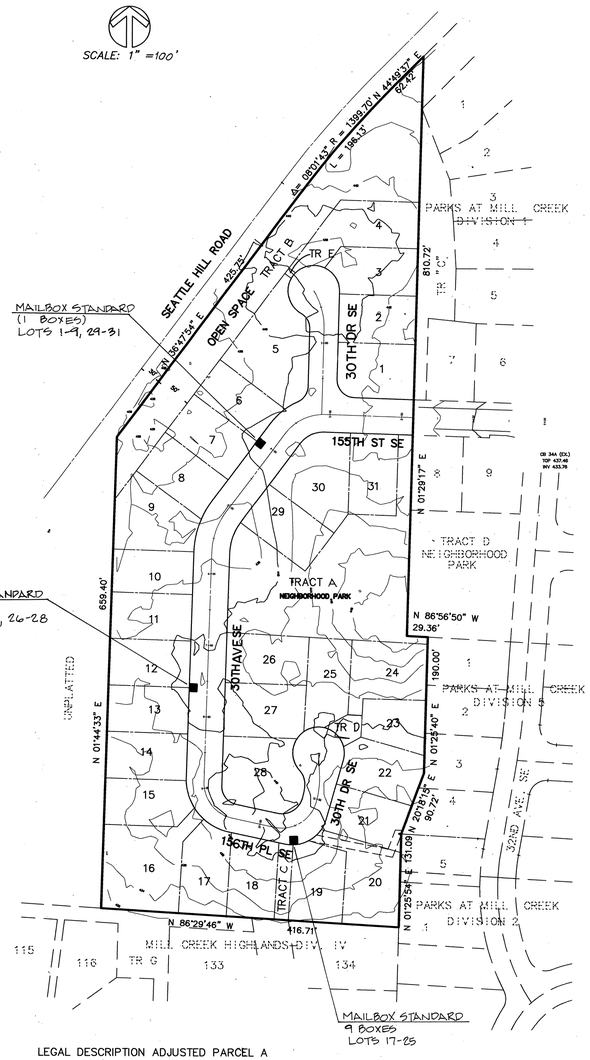
Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 7 of 12

Job No. 93129

THE PARKS HDEV-352

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



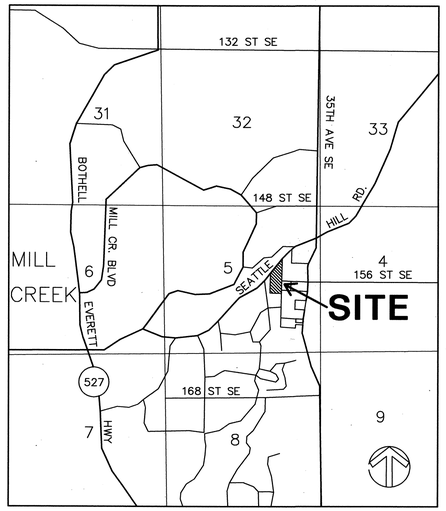
LEGAL DESCRIPTION ADJUSTED PARCEL A

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.



VICINITY MAP
SCALE: 1" = 2560'

THE PARKS AT MILL CREEK

DIVISION 6

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

TABLE OF CONTENTS

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ROAD & STORM DRAINAGE:	
PLAN	2/6
PROFILE	3/6
NOTES & DETAILS	4/6
GRADING & TESCP:	
PLAN	5/6
NOTES & DETAILS	6/6

BOTHELL POST OFFICE
10500 BEARDSLEE BLVD.
BOTHELL, WA. 98011-9998

ORIGINAL SIGNATURE ON FILE AT OSTERGAARD-ROBINSON & ASSOC.
POSTMASTER APPROVAL DATE

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER — 10/18/95
EXPIRES 1/16/97

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
DIRECTOR OF COMMUNITY DEVELOPMENT 11-7-96 DATE

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

REVISION	DATE	BY
PER CITY REVIEW	4/8/96	LDR
PER CITY REVIEW	7/8/96	LDR
" "	10/28/96	LDR
" "	11/5/96	KLR

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5864

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

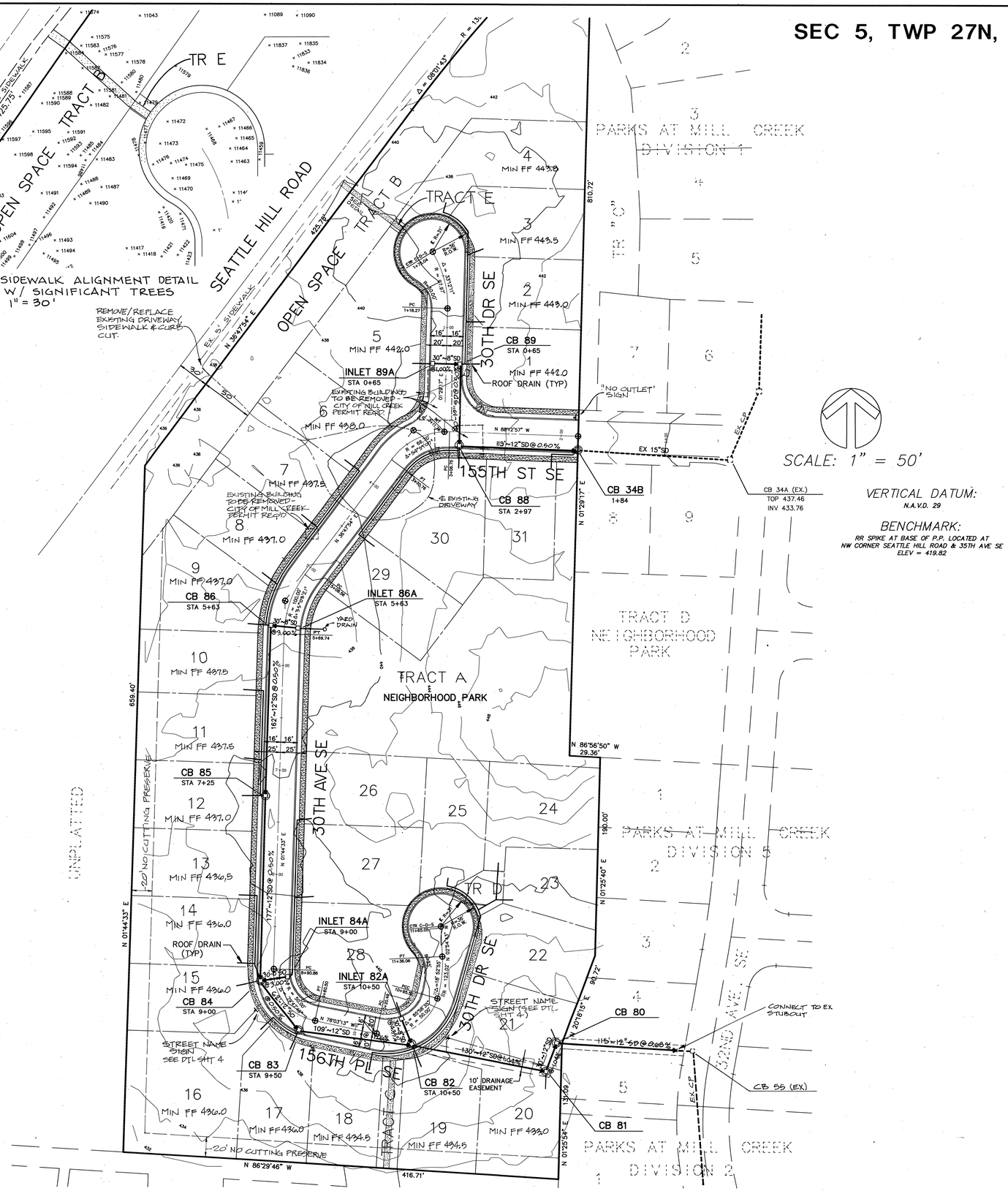
Designed LDR
Checked
Drawn LDR
Checked
As-built

Sheet 1 of 6

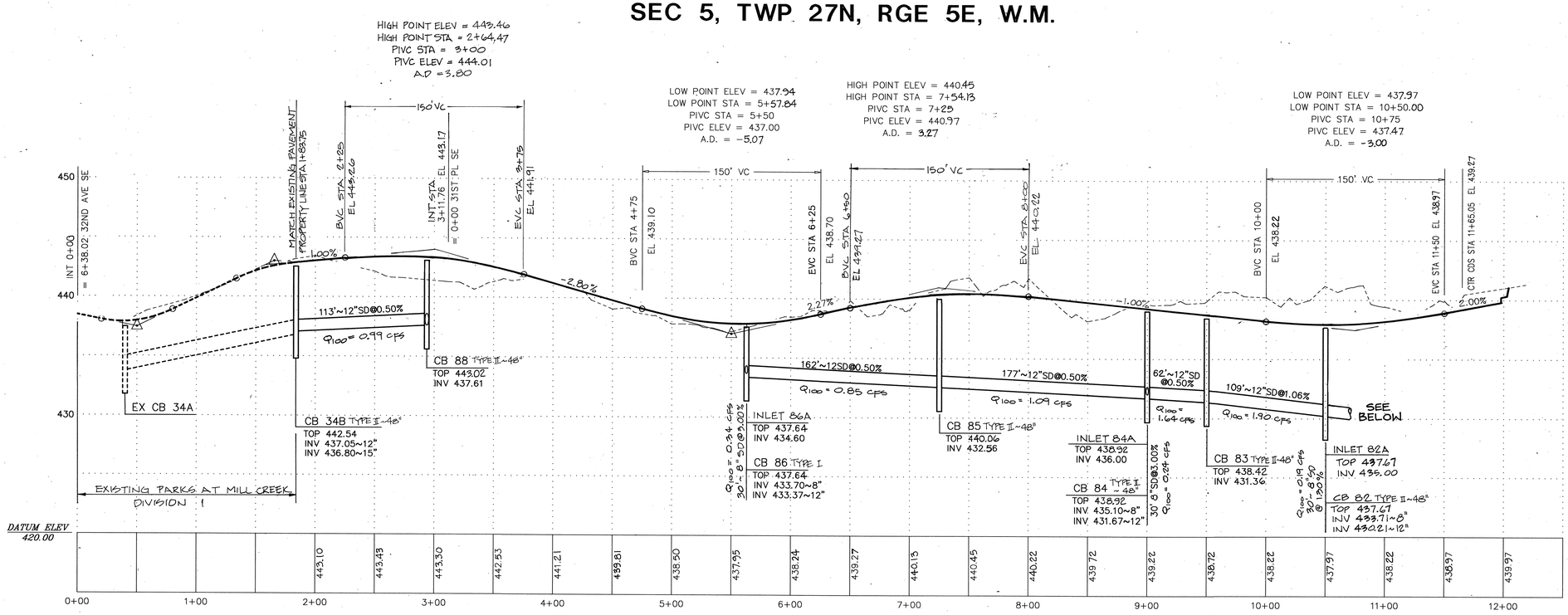
Job No. 93129

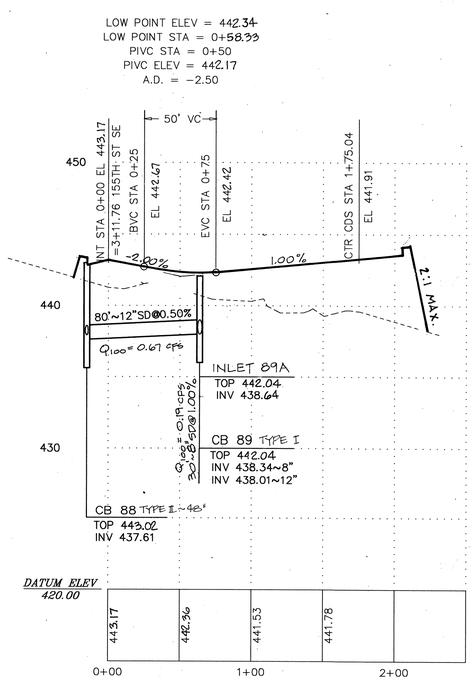
THE PARKS
HDEV-353

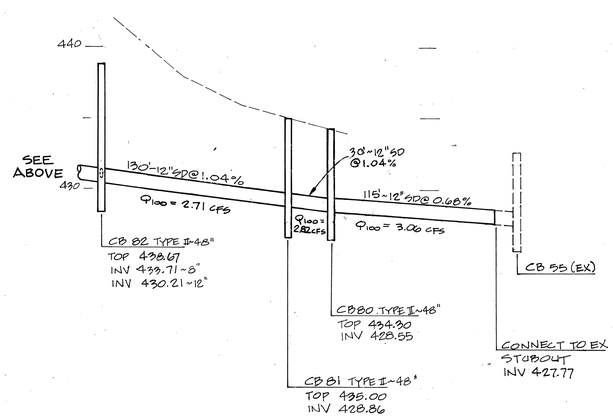
SEC 5, TWP 27N, RGE 5E, W.M.


SEATTLE HILL ROAD
OPEN SPACE TRACT
TR E
EX. 5' SIDEWALK 425.75'
OPEN SPACE TRACT B
TRACT E
30TH DR SE
155TH ST SE
156TH PL SE
30TH AVE SE
32ND AVE. SE
TRACT A
NEIGHBORHOOD PARK
TRACT D
NEIGHBORHOOD PARK
TR "C"
PARKS AT MILL CREEK DIVISION 1
PARKS AT MILL CREEK DIVISION 5
PARKS AT MILL CREEK DIVISION 2
UNPLATTED
SIDEWALK ALIGNMENT DETAIL W/ SIGNIFICANT TREES 1" = 30'
REMOVE/REPLACE EXISTING DRIVEWAY, SIDEWALK & CURB CUT.
EXISTING BUILDINGS TO BE REMOVED - CITY OF MILL CREEK PERMIT REQ'D
EXISTING BUILDINGS TO BE REMOVED - CITY OF MILL CREEK PERMIT REQ'D
"NO OUTLET" SIGN
EX 15"SD
CB 34A (EX.) TOP 437.46 INV 433.76
CB 34B 1+84
CB 89 STA 0+65
INLET 89A STA 0+65
CB 88 STA 2+97
INLET 86A STA 5+63
CB 86 STA 5+63
CB 85 STA 7+25
INLET 84A STA 9+00
INLET 82A STA 10+50
CB 84 STA 9+00
CB 83 STA 9+50
CB 82 STA 10+50
CB 80
CB 81
CB 55 (EX)
CONNECT TO EX STUBOUT
STREET NAME SIGN SEE DTL SHT 4
10' DRAINAGE EASEMENT
YARD DRAIN
ROOF DRAIN (TYP)
MIN FF 443.8
MIN FF 443.5
MIN FF 443.0
MIN FF 442.0
MIN FF 441.0
MIN FF 437.5
MIN FF 437.0
MIN FF 436.5
MIN FF 436.0
MIN FF 434.5
MIN FF 433.0
20' NO CUTTING PRESERVE
659.40'
810.72'
425.75'
416.71'
N 86°47'34" E
N 01°44'33" E
N 01°29'17" E
N 01°25'40" E
N 01°25'34" E
N 86°56'50" W 29.36'
N 86°29'46" W
N 88°12'57" W
N 20°19'15" E
N 78°03'13" W
115'~12"SD@0.60%
109'~12"SD @ 1.00%
177'~12"SD @ 2.50%
162'~12"SD @ 0.50%
130'~12"SD@0.45%
115'~12"SD@2.00%
190.00'
90.72'
130.69'
R = 1350.00'
Δ = 08°01'43"
R = 30.00'
Δ = 37°27'21"
R = 30.00'
Δ = 90°00'00"
R = 30.00'
Δ = 90°00'00"
R = 30.00'
Δ = 90°00'00

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







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

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

DIVISION 6

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER — 10/18/95
EXPIRES 1/16/97

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

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
Craig Stempler 11-6-96
CITY ENGINEER DATE

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

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 DRAINAGE PROFILE
CITY OF MILL CREEK WASHINGTON

Designed LDR
Checked
Drawn LDR
Checked
As-built

Sheet 3 of 6

Job No. 93129

THE PARKS HDEV-355

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

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1996 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
3. A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. 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.
5. 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.
6. 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.
7. DISTURBED SOIL SHALL BE GRASS SEEDED IF NOT WORKED WITHIN 30 DAYS.

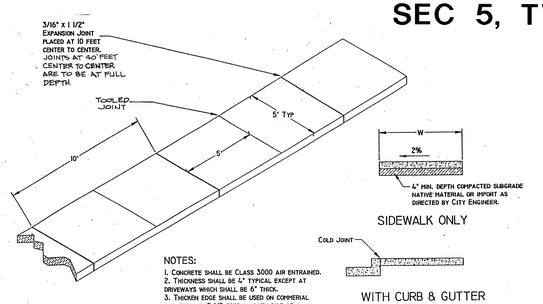
STORM DRAINAGE NOTES

1. 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.
2. 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.
3. ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
5. ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
6. ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
7. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
8. 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.
9. 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."
10. STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
11. 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.

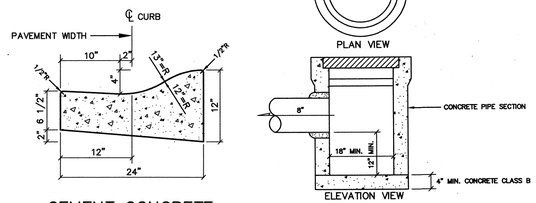
MATERIALS ALLOWED FOR STORM DRAIN LINES:
- PLAIN CONCRETE PIPE
- REINFORCED CONCRETE PIPE
- ALUMINUM SPIRAL RIB PIPE
- PVC – 3034

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

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



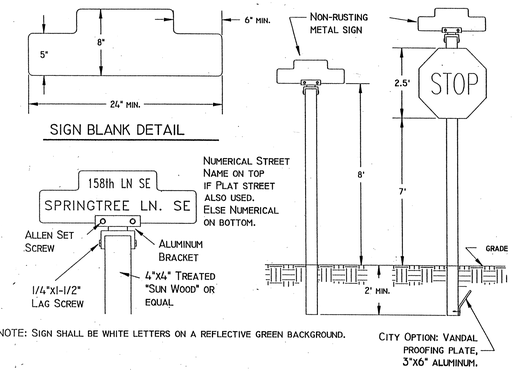
SIDEWALK DETAILS
N.T.S



CEMENT CONCRETE
ROLLED CURB AND GUTTER

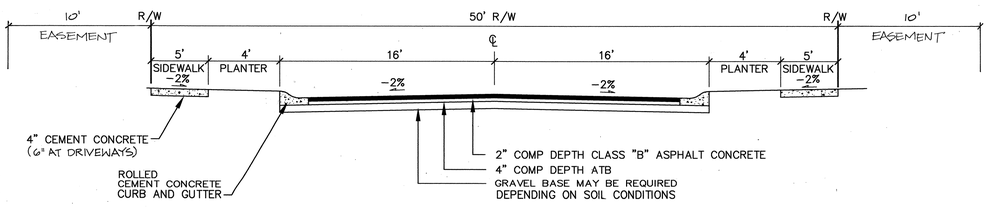
NOTES:
1. CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
2. ALL CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 3000.
3. 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.
4. 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.
5. CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
6. ALL JOINTS SHALL BE CLEAN AND EDGES.
7. FINISH SHALL BE LIGHT BROOM FINISH.
8. FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.

YARD DRAIN
N.T.S.

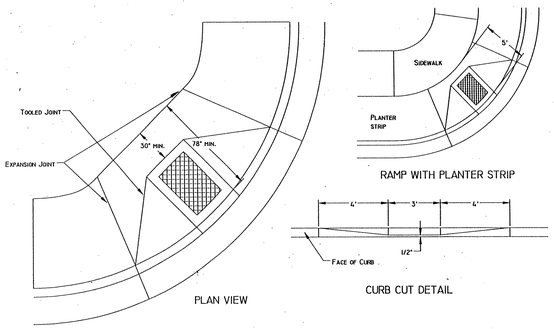


NOTE: SIGN SHALL BE WHITE LETTERS ON A REFLECTIVE GREEN BACKGROUND.

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

ACCESS RAMP
N.T.S.

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER
10/18/95
EXPIRES 1/16/97

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

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

DATE	REVISION	BY
4/8/96	PER CITY REVIEW	LDR
7/8/96	PER CITY REVIEW	LDR
10/24/96	PER CITY REVIEW	KLR
11/5/96	" "	"

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

DIVISION 6

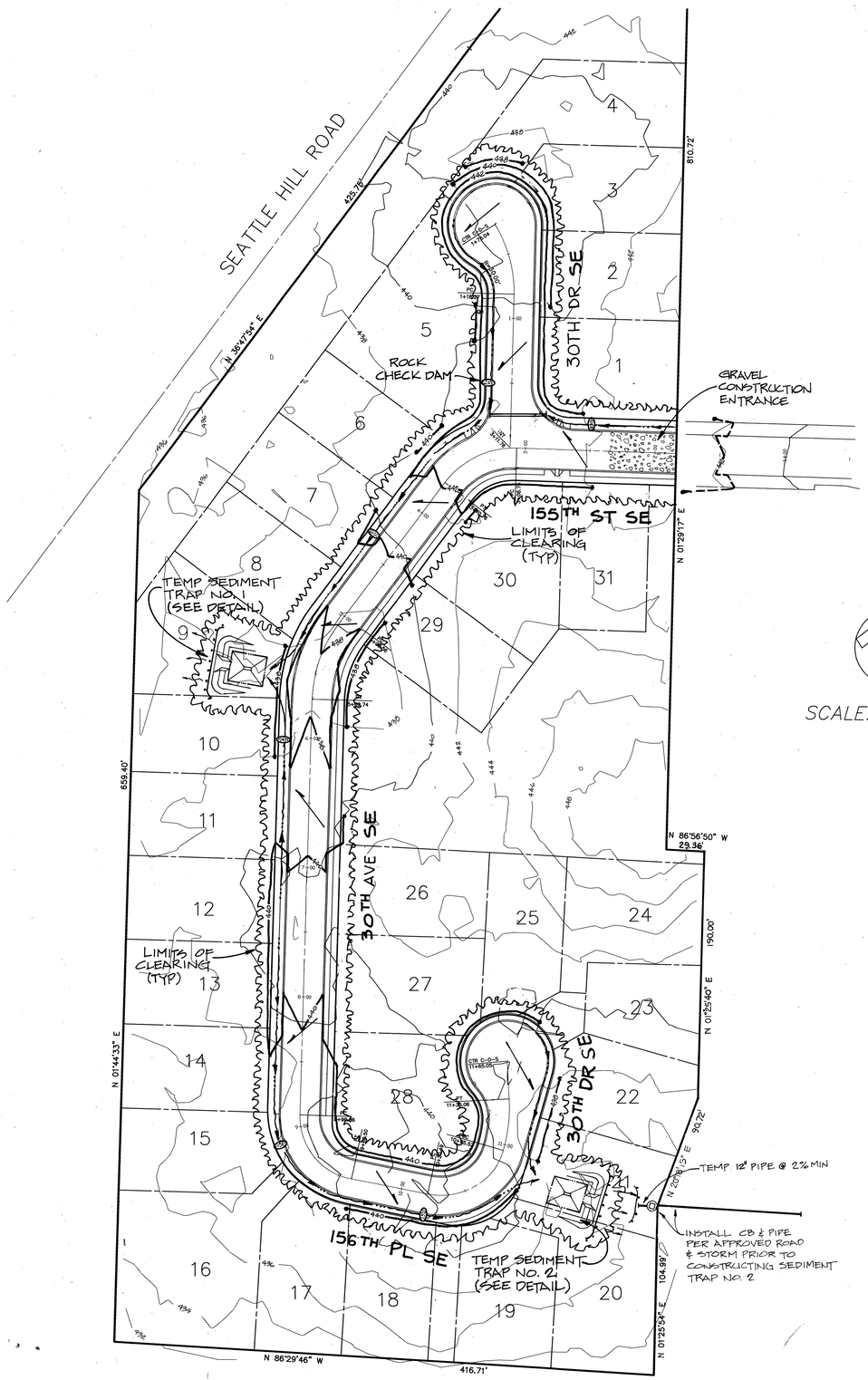
Designed LDR
Checked
Drawn LDR
Checked
As-built

Sheet 4 of 6

Job No. 93129

THE PARKS HDEV-356

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.

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER — 10/18/96

EXPIRES 1/16/97

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
DIRECTOR OF COMMUNITY DEVELOPMENT — DATE 11-7-96

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

DIVISION 6

DATE	REVISION	BY
4/8/96	PER CITY REVIEW	JER
7/8/96	PER CITY REVIEW	BPR
10/21/96	PER CITY REVIEW	JER
11/15/96	" "	KLR

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

GRADING + TESCP PLAN

CITY OF MILL CREEK WASHINGTON

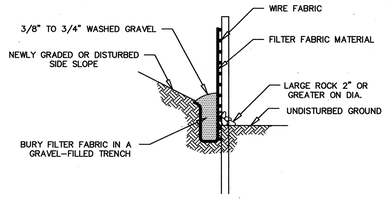
Designed ME
Checked
Drawn ME
Checked
As-built

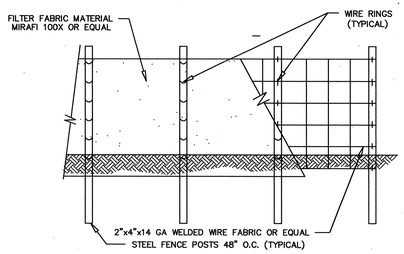
Sheet 5 of 6

Job No. 93129

HDEV-357

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

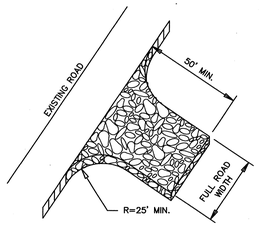




SILT FENCE DETAILS
NTS

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.



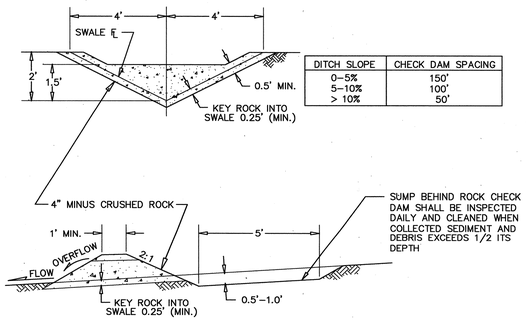
GRAVEL CONSTRUCTION ENTRANCE
NTS

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.

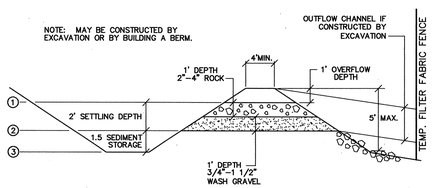
SITE GRADING AND T.E.S.C.P. NOTES

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.

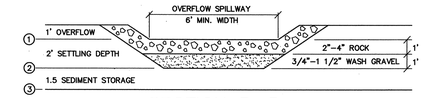


DITCH SLOPE	CHECK DAM SPACING
0-5%	150'
5-10%	100'
> 10%	50'

ROCK CHECK DAM DETAILS
NTS

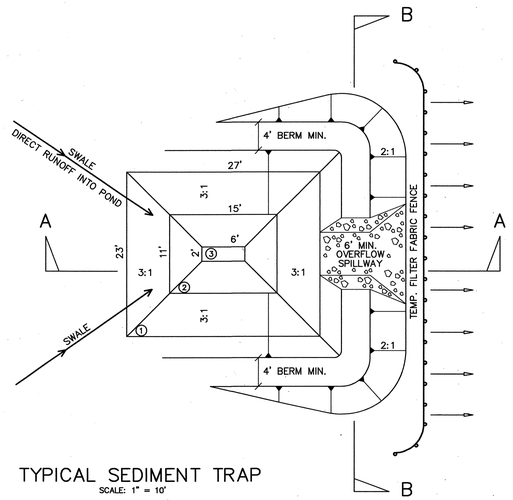


SECTION A-A



SECTION B-B

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			



TYPICAL SEDIMENT TRAP
SCALE: 1" = 10'

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED
PROFESSIONAL ENGINEER
10/18/95
EXPIRES 1/16/97

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
DIRECTOR OF COMMUNITY DEVELOPMENT — DATE 11-7-96

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

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

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

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

DIVISION 6

Designed LDR
Checked
Drawn LDR
Checked
As-built

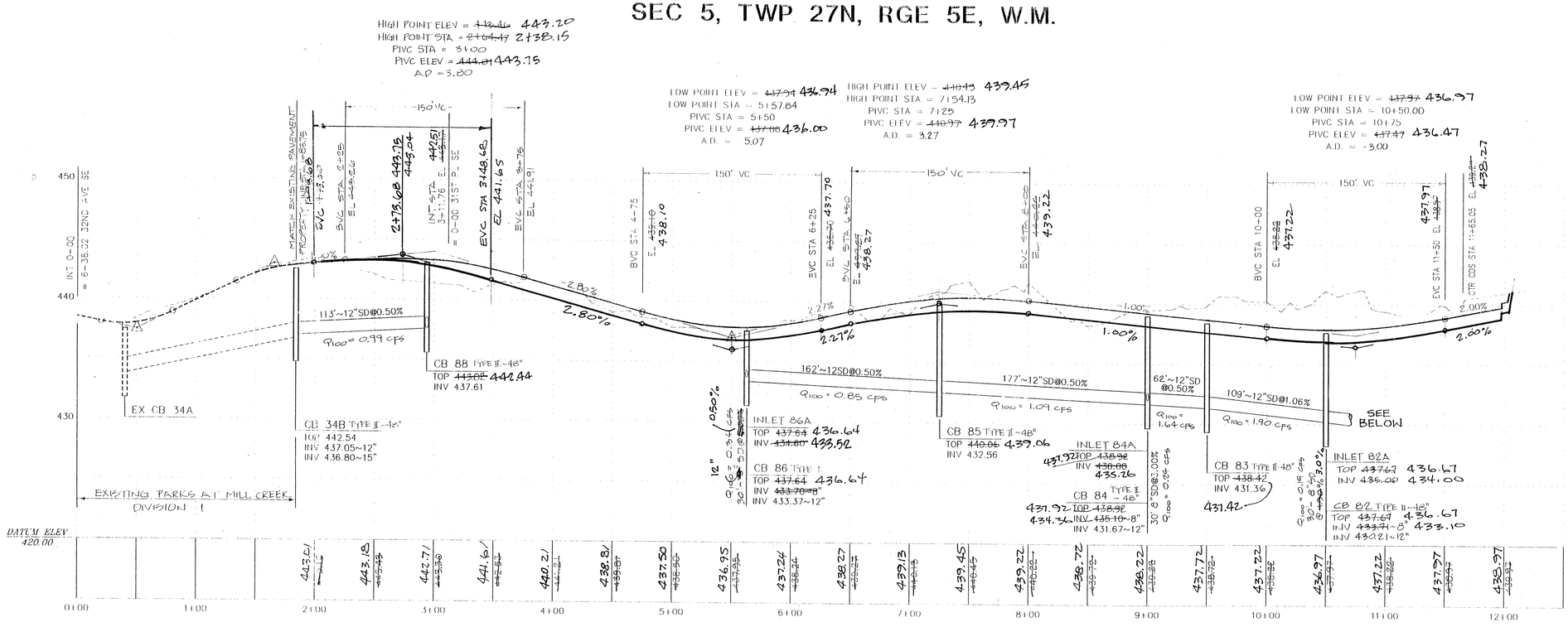
Sheet 6 of 6

Job No. 93129

THE PARKS

HDEV-358

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

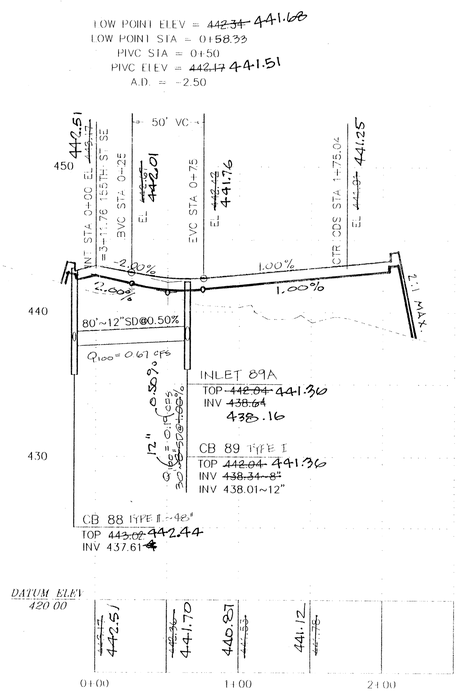


155TH ST SE

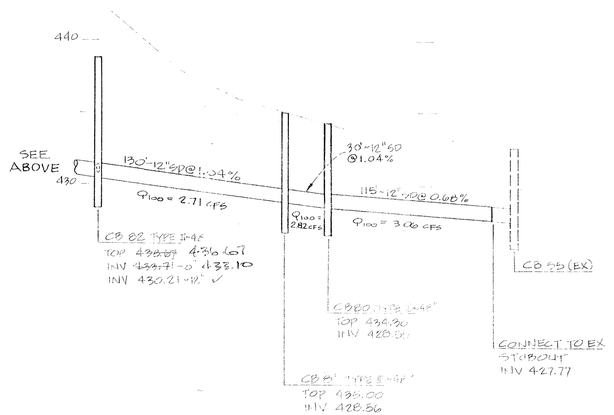
30TH AVE SE

156TH PL SE

30TH DR SE



30TH DR SE



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

Larry - Save for as-Bu'lt of Div. 6

DIVISION 6

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

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WASHINGTON. 7174 REGISTERED PROFESSIONAL ENGINEER 10/18/95
EXPIRES 1/10/97

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

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER 11-6-96 DATE

LOT 20 & 21 ROAD LOWERING GRADES

THE PARKS - DIV. 6

THE PARKS HDEV-359

DATE	REVISION	BY
4/8/96	PER CITY REVIEW	LDR
7/29/96	PER CITY REVIEW	LDR
11/5/96	" "	LDR
2/24/97	LOWER ROAD GRADES	LDR/KLP

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

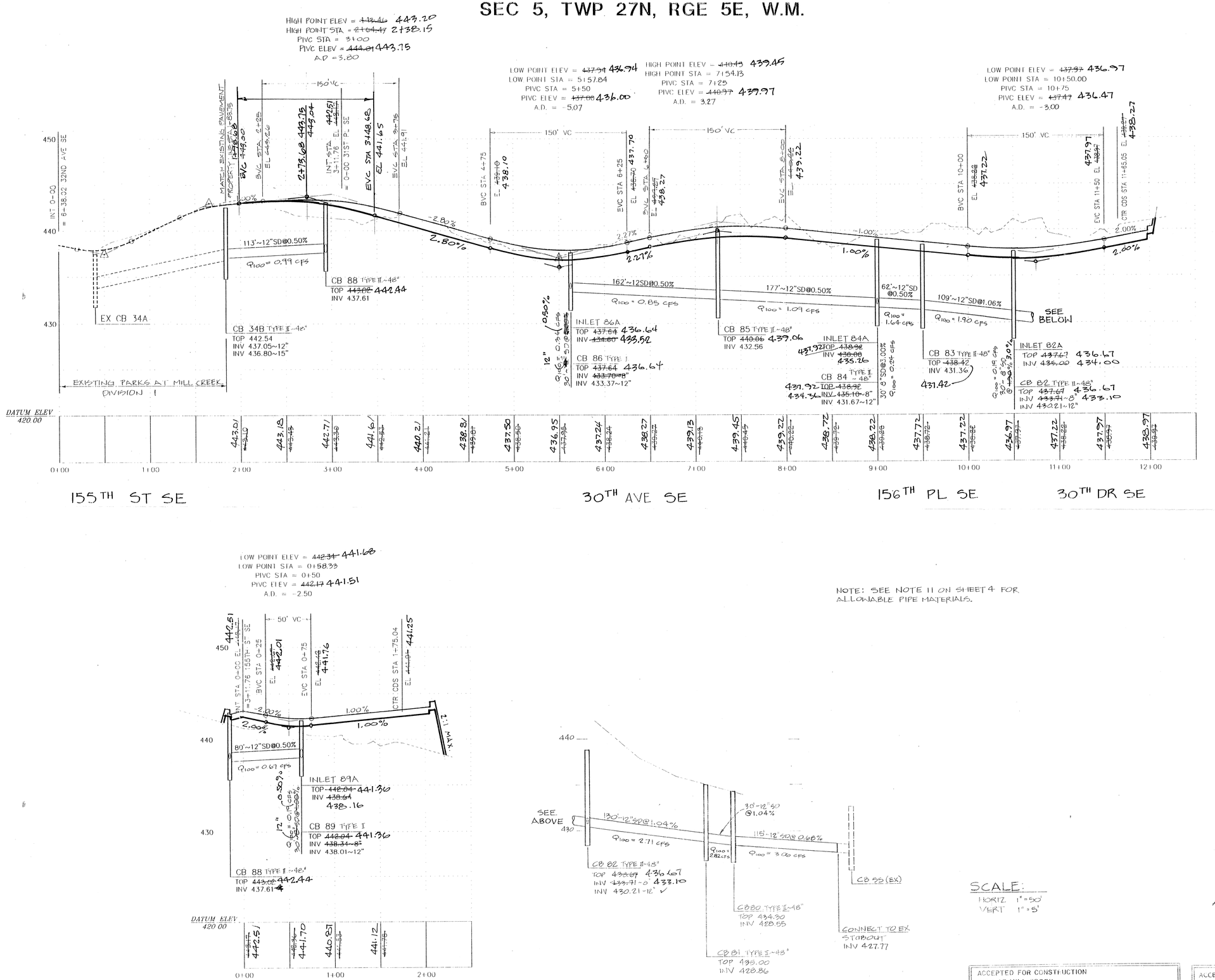
THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE PROFILE
CITY OF MILL CREEK WASHINGTON

Designed LDR
Checked
Drawn LDR
Checked
As-built

Sheet 3 of 6

Job No. 93129

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



155TH ST SE

30TH AVE SE

156TH PL SE

30TH DR SE

30TH DR SE

LOT 20 & 21

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

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

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER
12/18/96
EXPIRES 1/16/97

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

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER DATE

THE PARKS HDEV-360

DIVISION 6

BY	REVISION	DATE
LDR	PER CITY REVIEW	4/8/96
LDR	" " "	7/29/96
LDR/WLB	LOWER ROAD GRADES	11/15/96
	CTR CDS STA 11+65.05 EL ~~438.27~~ 438.27	2/12/97

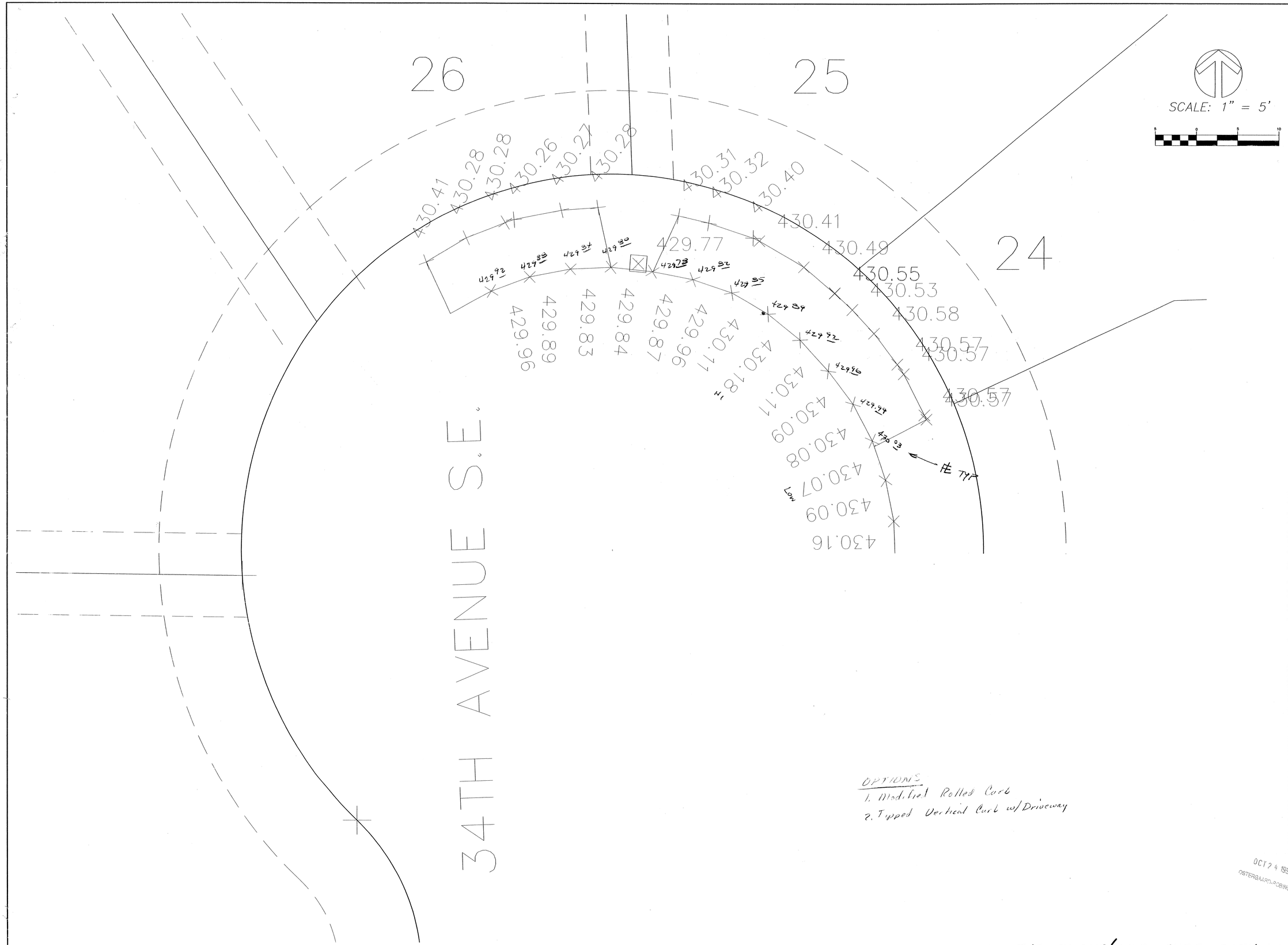
OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5854

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

Designed LDR
Checked
Drawn LDR
Checked
As-built

Sheet 3 of 6

Job No. 93129



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

THE PARKS AT MILL CREEK, DIVISION 1, AS RECORDED IN VOLUME 57 OF PLATS, PAGES 245-249

OCT 24 1997
OSTERGAARD-ROBINSON

DATE	REVISION	BY

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

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

Designed
Checked CHS
Drawn SGB
Dwg.nam
Plotted 10-23-97

Sheet 1 of 1

Job No.

THE PARKS (MOD. CURB - 34TH AVE. SE) HDEV-361

SEE SHEET 1 OF 3

SEE SHEET 3 OF 3

FILENAME MCTP055.DWG
UPDATED FEB 25, 1993

NO. | REVISION | DATE | BY

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

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

DEC 6 1993

SHEET 2 OF 3

JOB NO: 92-8029

THE PARKS - (TREE SURVEY) HDEV-362

SEE SHEET 2 OF 3

WEEKS

DUNN

RAY

RETAIN WALL

EX. BUILDING

EX. SHED

EX. SHED

EX. MOBILE HOME

EX. WELL

EX. GARBAGE S.E.

12" CONC. IN
I.E. = 414.99

12" CONC. OUT
I.E. = 413.78

50 50

N

SCALE 1"=50'

CONTOUR INTERVAL=2'

50 0 50 100

30th CIR. S.E.

HIGHLANDS BLVD. S.E.

EX. MANHOLE
RIM = 431.32
I.E. = 419.49

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

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

FILENAME: MLTPOSS.DWG
UPDATED: FEB 25, 1993

NO. | REVISION | DATE | BY

GROUP FOUR, Inc.

16030 JUANITA-WOODINVILLE WAY NE
BOTHELL, WASHINGTON 98011
(206)775-4581 • (206)362-4244 • FAX(206)362-3819

SURVEYING | ENGINEERING | PLANNING | MANAGEMENT

DRAWN BY: MCH | CHECKED BY:
DATE: 1-18-93 | DATE:

APPROVED BY:
DATE:

TREE SURVEY

THE PARKS AT MILLCREEK

COUNTRYWOOD HOMES, INC.

DEC 6 1993

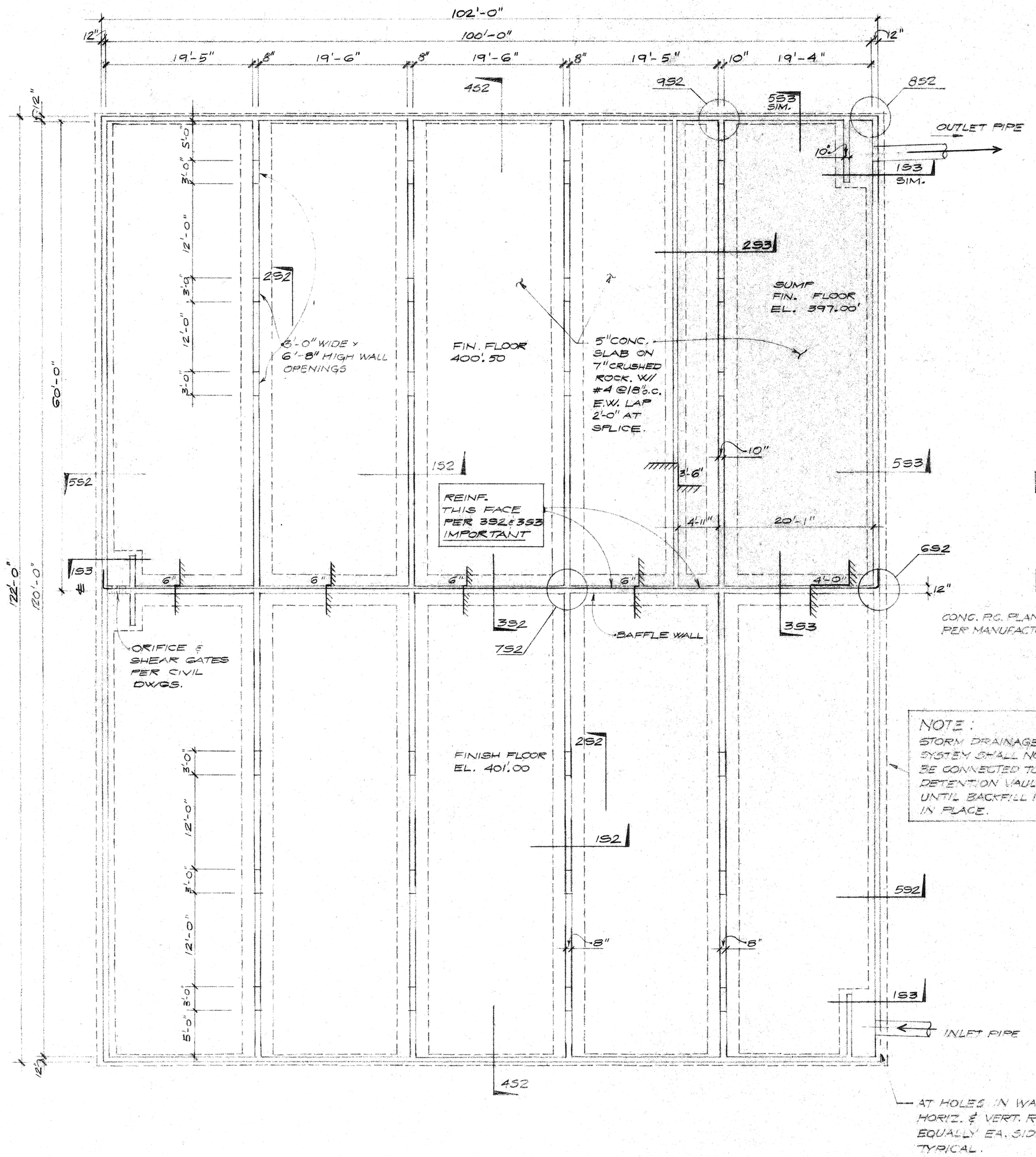
SNOHOMISH COUNTY WASHINGTON

SHEET 3 OF 3

JOB NO: 92-8029

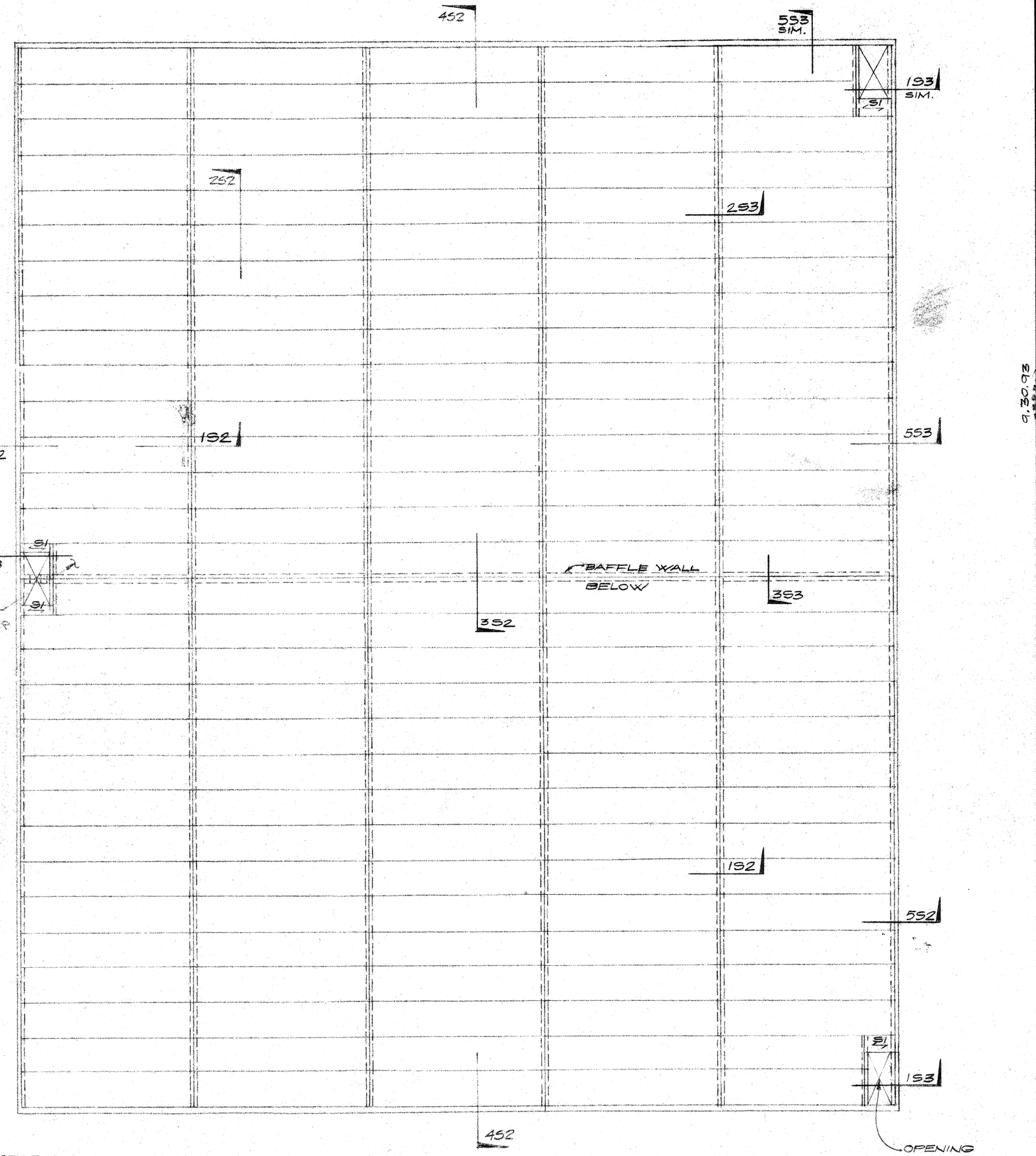
THE PARKS - TREE SURVEY

HDEV-363



FOUNDATION AND FLOOR SLAB PLAN

1. DO NOT BACKFILL UNTIL ROOF PLANKS AND CLOSURES ARE COMPLETED AND ALL CONCRETE STRENGTH HAS REACHED $f'_c = 3000$ PSI.
2. DURING BACKFILL OPERATION BACKFILL EVENLY ALL AROUND TANK IN EQUAL LIFTS.



ROOF FRAMING PLAN

1. P.C. PLANK MANUFACTURER TO DESIGN PLANK FOR SOIL COVER PLUS 20-44 HIGHWAY LOADING.
2. 51/ — INDICATES 12" CONC. SLAB W/ #5 @ 8" o.c. BOTTOM EA. WAY. HOOK ENDS AT FAR FACE OF CONCRETE.

HDEV-530

REVISIONS	BY

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

9.30.93

EXPIRES 10.22.94

SUBDIVISION MANAGEMENT, INC.

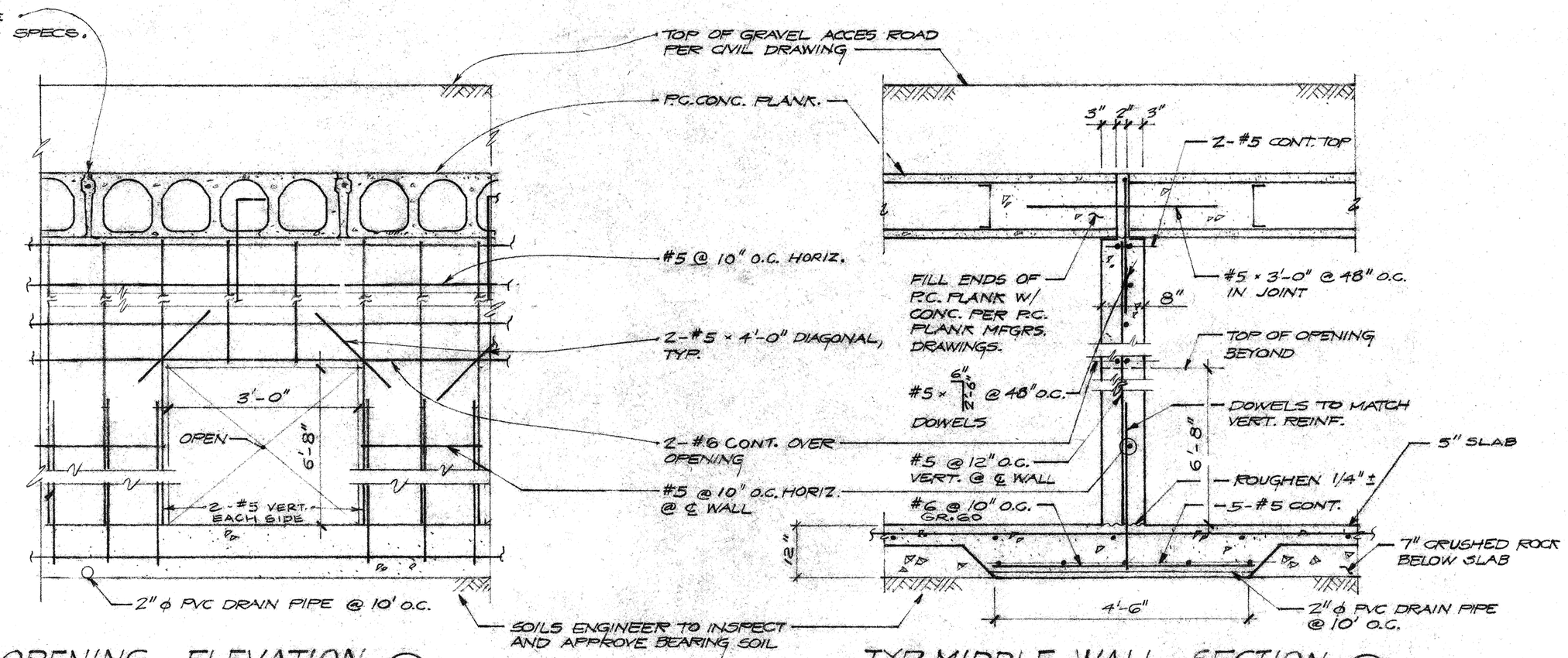
CIVIL ENGINEER: OSTERGAARD ROBINSON & ASSOC., INC.

THE PARKS AT MILL CREEK
STORMWATER DETENTION VAULT

CITY OF MILL CREEK WASHINGTON

Date 09-14-93
Scale 1/8" = 1'-0"
Drawn V.B.
Job
Sheet 51 Of 3 Sheets

24 X 36 PRINTED ON NO. 1000H CLEARPRINT ●



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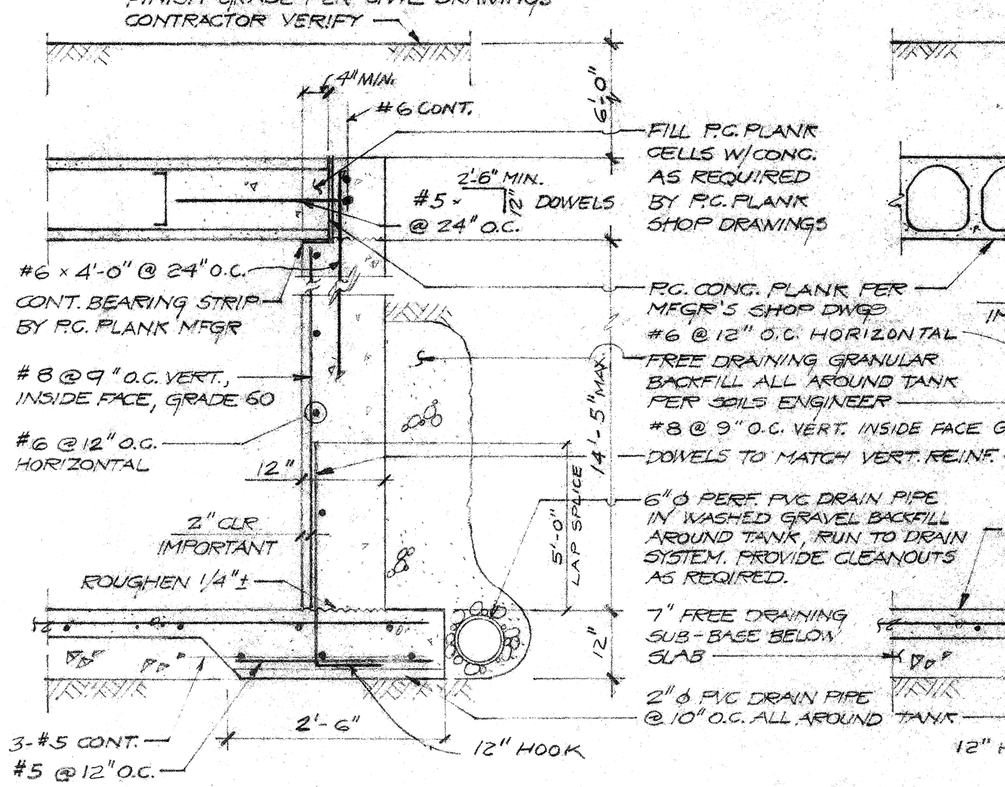

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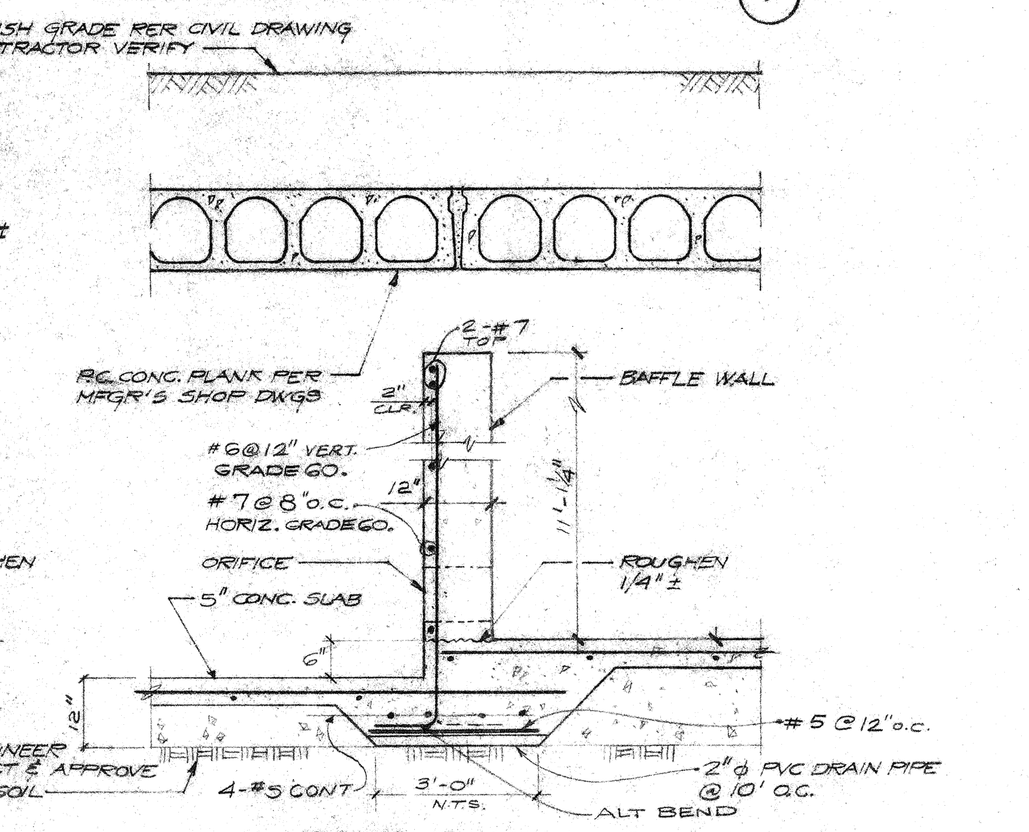

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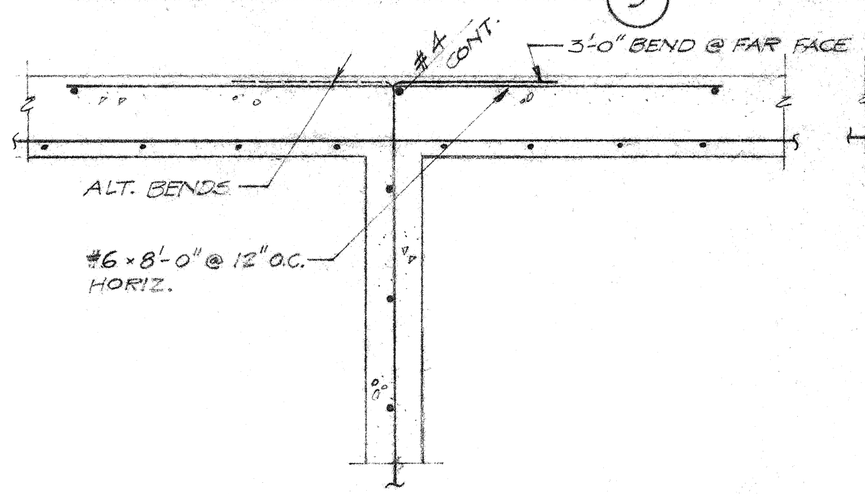

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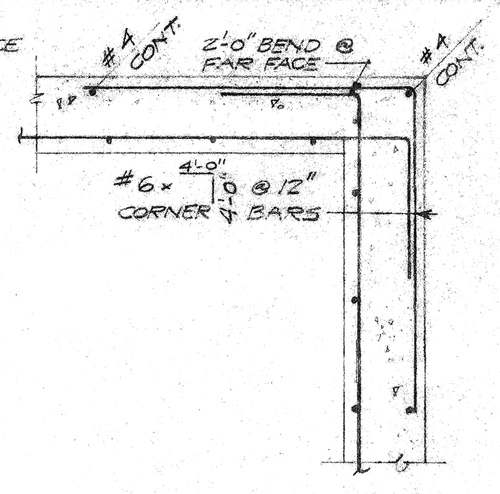

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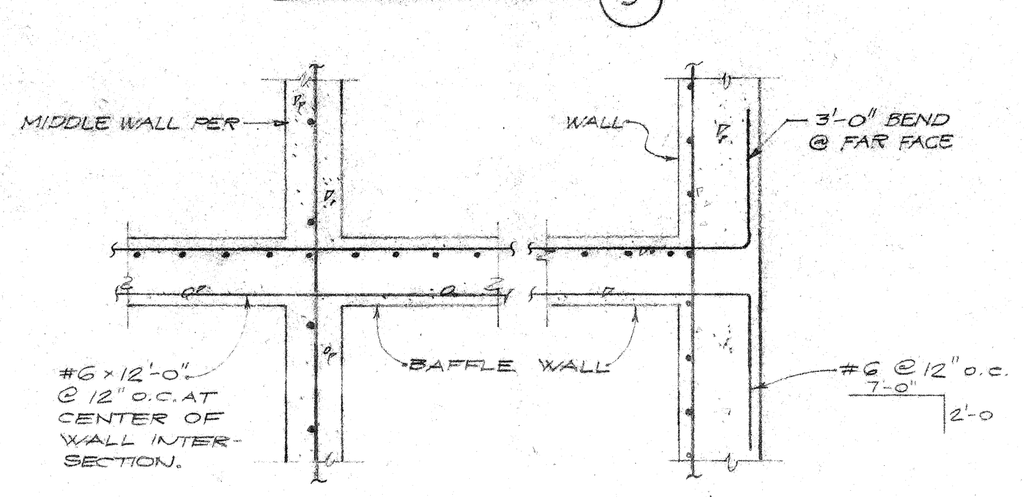


PLAN (9)

PLAN (8)

PLAN (7)

PLAN (6)

TYP. INTERSECTION AND CORNER REINFORCEMENT

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans.)

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND THE CODE. U.B.C.

2. 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.

3. 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.

4. SHOP DRAWINGS FOR REINFORCING STEEL AND PRECAST CONCRETE MEMBERS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

5. CONCRETE STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

Type of Construction	28-Day Strength (f'c)	Maximum Slump	Minimum Cement Content Per Cubic Yard	Maximum Water Content Per Sack of Cement
A. Cast in Place Concrete	3,000	5"	5 1/2 Sacks	7-1/2 Gallons
B. Precast - Prestressed Hollow-Core Planks	8,000	Mix design per precast plant standards as approved.		

THE MINIMUM AMOUNTS OF CEMENT AND MAXIMUM AMOUNTS OF WATER MAY BE CHANGED IF A CONCRETE DESIGN MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND STORM AND SURFACE WATER UTILITY FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. 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 SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH U.B.C. 2604(c9).

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 26-9. THE MOUNT SHALL BE 4½ ± 1½ BY VOLUME.

6. 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).

7. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-~~83~~ AND 318-~~83~~. LAP ALL CONTINUOUS REINFORCEMENT 30 BAR DIAMETERS OR 2'-0" MINIMUM. LAP ADJACENT MATS OF WELDED WIRE MESH AT SIDES AND ENDS. 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.

8. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNIFORMED SURFACES, EARTH FACE	3"
FORMED SURFACES EXPOSED TO EARTH (I.E., WALLS BELOW GROUND, WATER OR WEATHER (#6 BARS OR LARGER)	2"
(#5 BARS OR SMALLER)	1-1/2"

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.

ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. 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.

11. 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.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK.

13. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

14. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.

15. FOOTINGS SHALL BEAR ON UNYIELDING UNDISTURBED EARTH OR COMPACTED ENGINEERED FILL. BACKFILL AGAINST CONCRETE WALLS WITH FREE DRAINING GRANULAR BACKFILL.

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.

PLACE BACKFILL EVENLY TO EACH WALL ALL AROUND VAULT.

SEE VAULT MECHANICAL DETAILS AND CIVIL DETAILS FOR PIPE LOCATIONS AND COVER OVER TOP SLAB.

16. LOADS ON ROOF PLANK. SEE CIVIL DRAWINGS FOR HEIGHT OF SOIL AT 120 PCF + L.L. OF HS-20-44 TRUCK LOADING. EQUIVALENT FLUID PRESSURE = 55 PCF ASSUMED, SOILS ENGINEER VERIFY

ALLOW SOIL BEARING = 6000PSF. ASSUMED, TOTAL PRESSURE, SOILS ENGINEER VERIFY.

REQUIRED CERTIFICATIONS

17. PRIOR TO RELEASE OF THE PERFORMANCE BOND, THE FOLLOWING CERTIFICATIONS SHALL BE SUBMITTED TO THE STORM AND SURFACE WATER MANAGEMENT DEPARTMENT.

a. SOILS ENGINEER SHALL VERIFY EXISTING SOIL CONDITIONS AT THE TIME OF VAULT EXCAVATIONS AND SUBMIT SOIL BEARING CERTIFICATION.

b. STRUCTURAL ENGINEER SHALL REVIEW SHOP DRAWINGS AND CALCULATIONS FOR ROOF PLANK SYSTEM AND SUBMIT CERTIFICATION OF ADEQUACY.

c. CERTIFICATION OF THE PLACEMENT OF ALL STEEL REINFORCING SHALL BE SUBMITTED FROM A QUALIFIED TESTING LABORATORY.

d. CERTIFICATION OF THE CONCRETE STRENGTH SHALL BE SUBMITTED FROM A QUALIFIED TESTING LABORATORY (MINIMUM OF THREE CYLINDERS PER VAULT).

e. AS-BUILT DATA CERTIFYING THE VOLUME OF EACH VAULT SHALL BE SUBMITTED BY A LICENSED ENGINEER OR SURVEYOR.

18. 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 ~~BUILD. DEPT.~~ 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.

19. APPROVAL OF SPECIAL INSPECTION SERVICE SHALL BE OBTAINED FROM ~~BUILD. DEPT.~~ 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 6000PSF ON DETENTION VAULT. SUBMIT FIELD INSPECTION REPORTS, TEST LAB REPORTS AND FINAL REPORTS TO ~~BLDG. DEPT.~~ BUILDING INSPECTOR, IN COMPLIANCE WITH SECTION 306, U.B.C.

20. 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 DIVISION.

21. CONCRETE PRECAST PLANKS SHALL BE MANUFACTURED ON THE PREMISES OF APPROVED FABRICATOR UNDER CRITERIA SET BY SECTION 306 (f), U.B.C.

22. VAULT CONSTRUCTION SHALL BE SUPERVISED BY A LICENSED CIVIL ENGINEER SPECIALIZING IN SOILS ENGINEERING, SUBMIT INSPECTION REPORTS TO: BUILDING DEPARTMENT, CIVIL ENGINEER, AND STRUCTURAL ENGINEER

HDEV-531

REVISIONS	BY

J. CLARK JOHNSON
CONSULTING ENGINEERS
14118-112TH AVENUE N.E.
BELLEVUE, WASH. 98004
(206) 454-7197

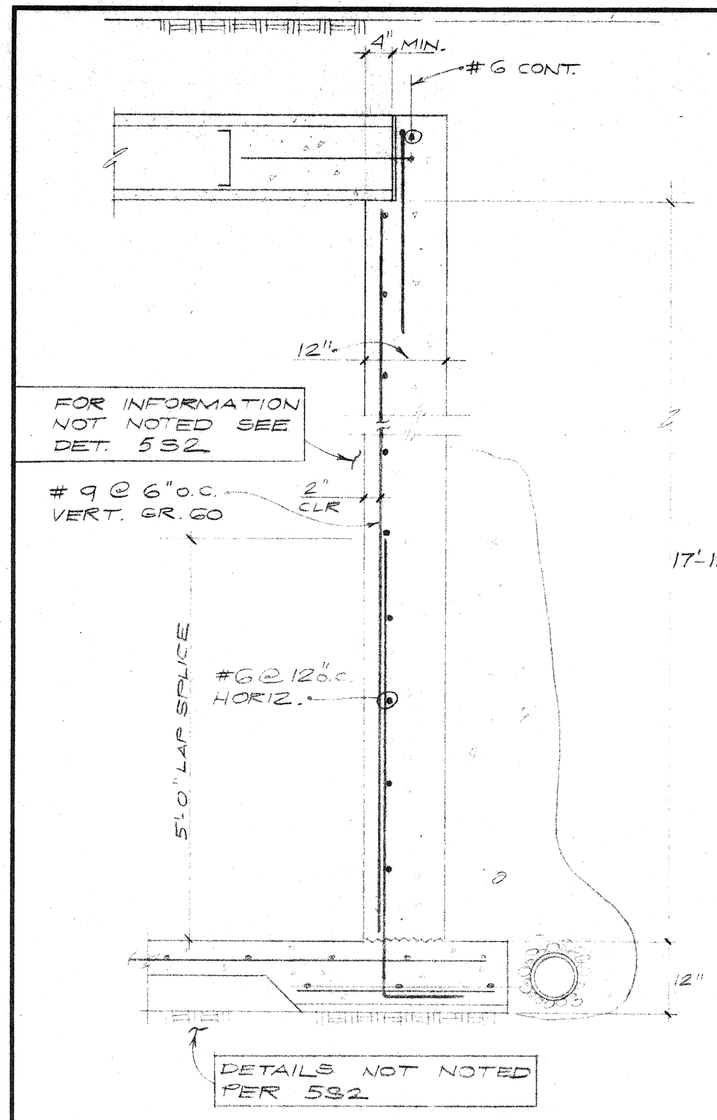
EXPIRES 10-22-94

SUBDIVISION MANAGEMENT, INC.
CIVIL ENGINEER: OSTERGAARD, ROBINSON & ASSOC. INC.

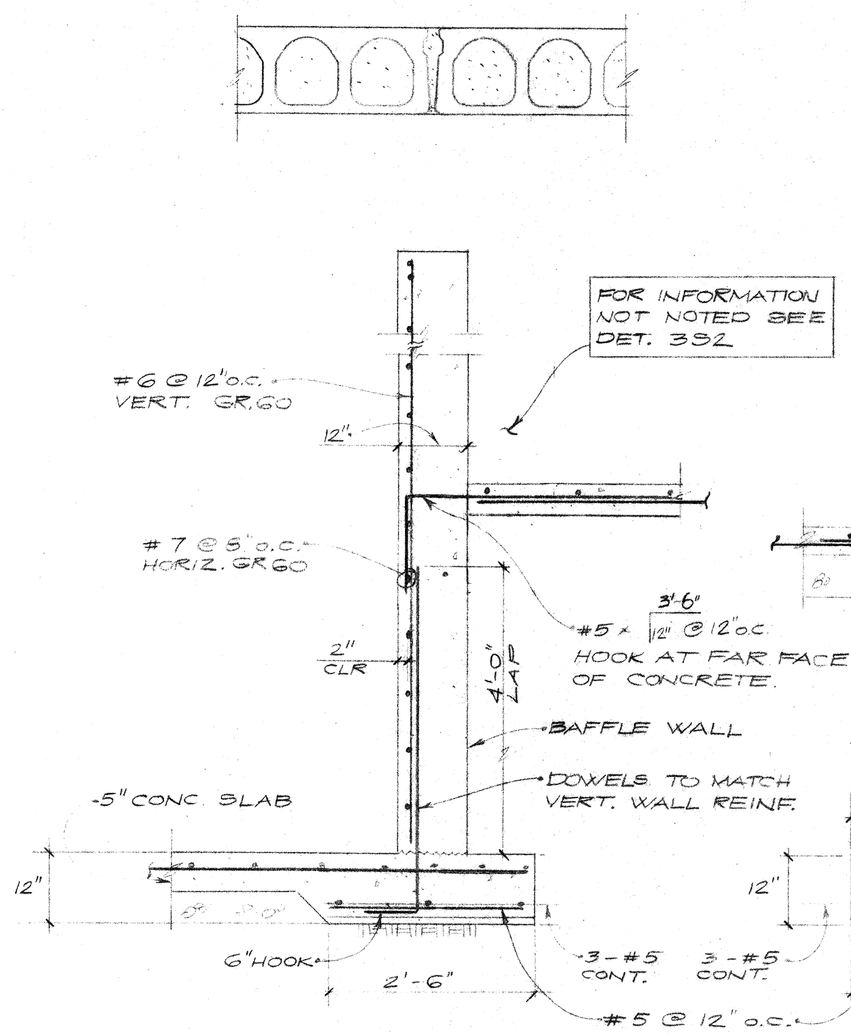
THE PARKS AT MILL CREEK
STORMWATER DETENTION VAULT
CITY OF MILL CREEK WASHINGTON

Date 09-14-93
Scale 3/4"=1'-0"
Drawn V.B.
Job
Sheet S2
Of 3 Sheets

24 X 36 PRINTED ON NO. 1000H CLEARPRINT ®



SIDE WALL AT SUMP (5)



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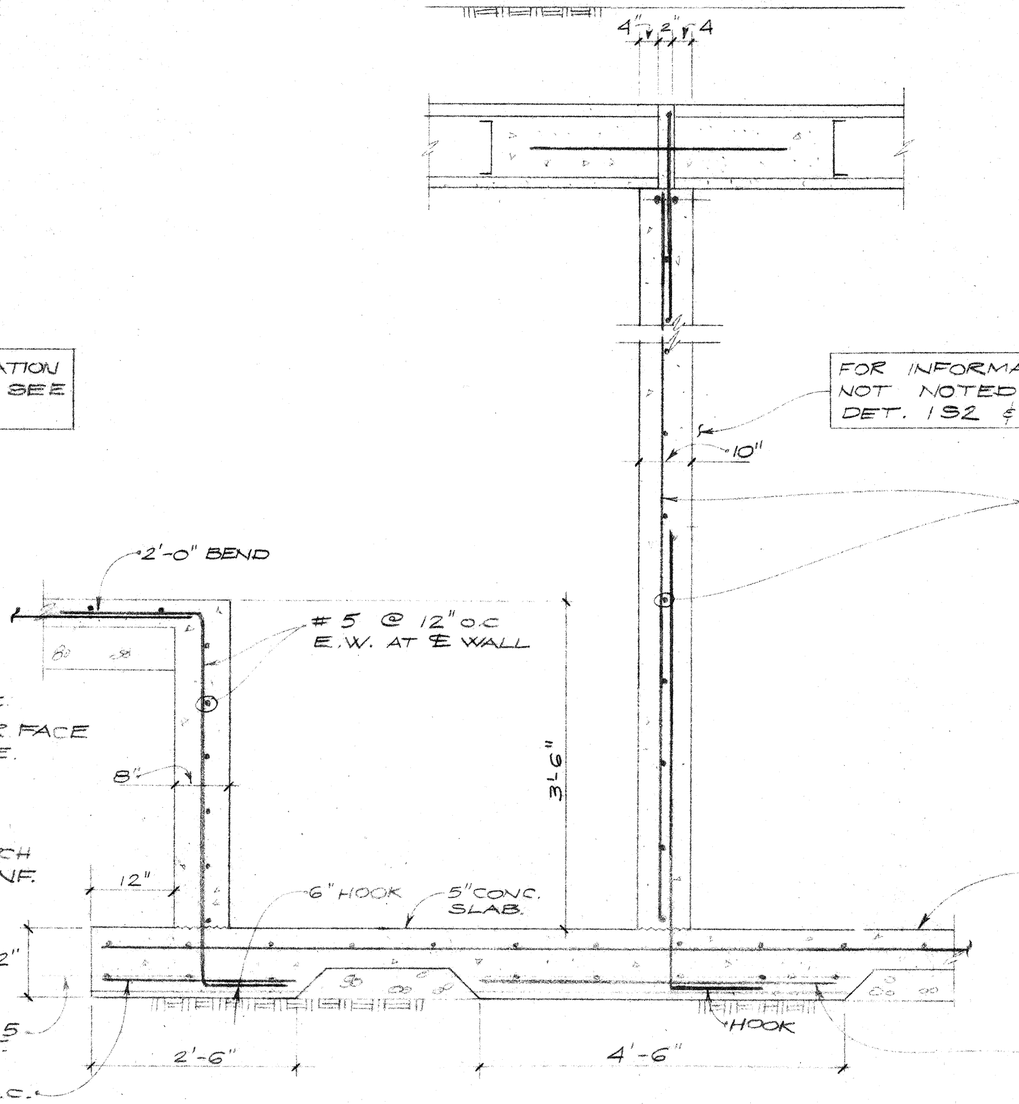

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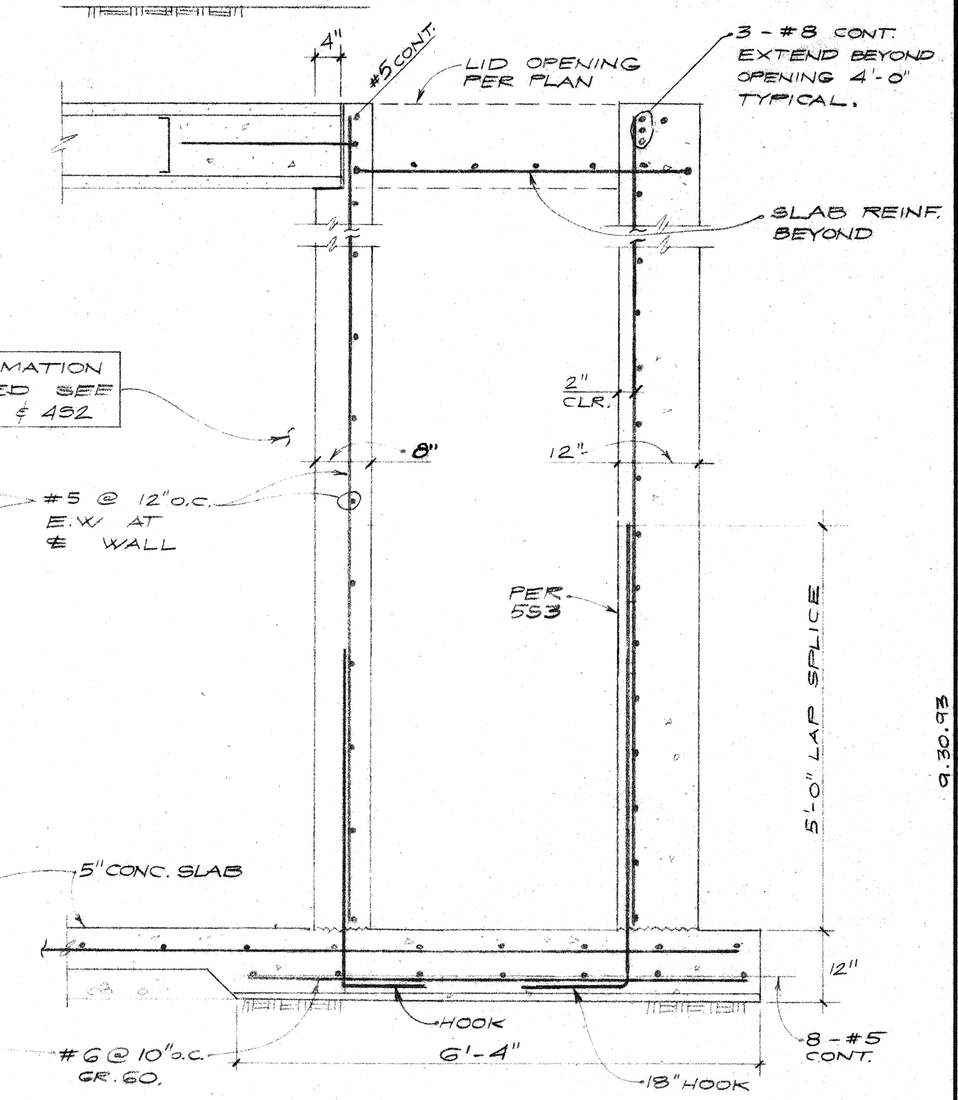

AT ACCESS HATCH (1)

REVISIONS	BY

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

9.30.93

SUBDIVISION MANAGEMENT, INC.

CIVIL ENGINEER: OSTERGAARD ROBINSON & ASSOC. INC.

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

Date	9.29.93
Scale	3/4"=1'-0"
Drawn	
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Sheet	S3
Of	3 Sheets

HDEV-532

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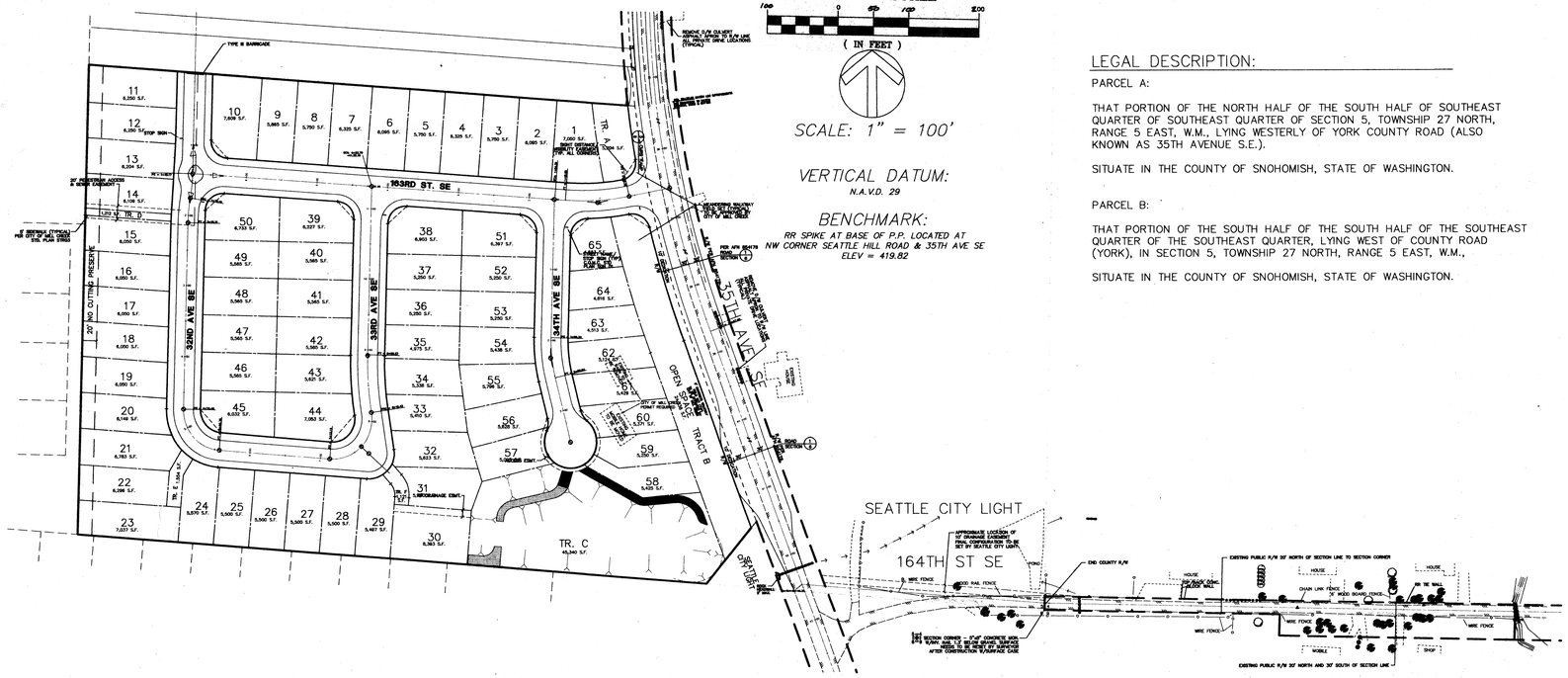
SEC 5, TWP 27N, RGE 5E, W.M.



LEGAL DESCRIPTION:

PARCEL A:

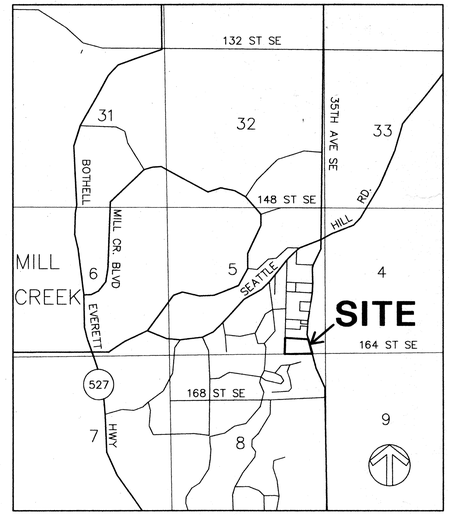
THAT PORTION OF THE NORTH HALF OF THE SOUTH HALF OF SOUTHEAST QUARTER OF SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., LYING WESTERLY OF YORK COUNTY ROAD (ALSO KNOWN AS 35TH AVENUE S.E.).

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

HYDRAULIC PROJECT APPROVAL
DEPARTMENT OF FISHERIES
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 General Administration Bldg. Olympia, Washington 98504 (206) 753-6650

10 LAST NAME / FIRST: Country Wood Homes	11 CONTACT PHONE(S): (206) 644-2323	1 CONTROL NUMBER: 00-B6762-01
12 STREET OR RURAL ROUTE: c/o Doug Birch/14410 Bel Red Road/Suite 200	7	8	9 WRIA: 08.0076
CITY: Bellevue	STATE: WA	ZIP: 98007	14	17
15 WATER: Tambark Creek	TRIBUTARY TO: Silver Creek	13 TYPE OF PROJECT: Stormwater
16 QUARTER SECTION: NW	SECTION: 09	TOWNSHIP: 27N	RANGE (E-W): 05E	COUNTY: Snohomish
TIME LIMITATIONS: 5 THIS PROJECT MAY BEGIN: Immediately	6 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.

SEE 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 Grading and Drainage Analysis for the Proposed Plat of Parks At Mill Creek Division 7" prepared by Ostergaard-Robinson," 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
PATROL: Wyatt 167 [P3]
APPLICANT - WILDLIFE - READER - PATROL - HAB. MGR. - WRIA
DEPARTMENT OF FISHERIES Joseph Bratman for DIRECTOR

HYDRAULIC PROJECT APPROVAL
DEPARTMENT OF FISHERIES
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
DEPARTMENT OF FISHERIES General Administration Bldg. Olympia, Washington 98504 (206) 753-6650

10 LAST NAME: Country Wood Homes	12 CONTACT PHONE(S): (206) 644-2323	1 CONTROL NUMBER: 00-B6762-01
15 WATER: Tambark Creek	9 WRIA: 08.0076

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.

cg

REV 10/16/08

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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DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER — 9/16/96
EXPIRES 1/16/97

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: _____

DETERMINED TO BE CONSISTENT WITH CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 95-46
DIRECTOR OF COMMUNITY DEVELOPMENT — DATE 9/18/96

SEP 19 1996

ACCEPTED FOR CONSTRUCTION CITY OF MILL CREEK
CITY ENGINEER — DATE 9/18/96

OSTERGAARD-ROBINSON
RECEIVED
SEP 19 1996
CITY OF MILL CRE

HDEV-750

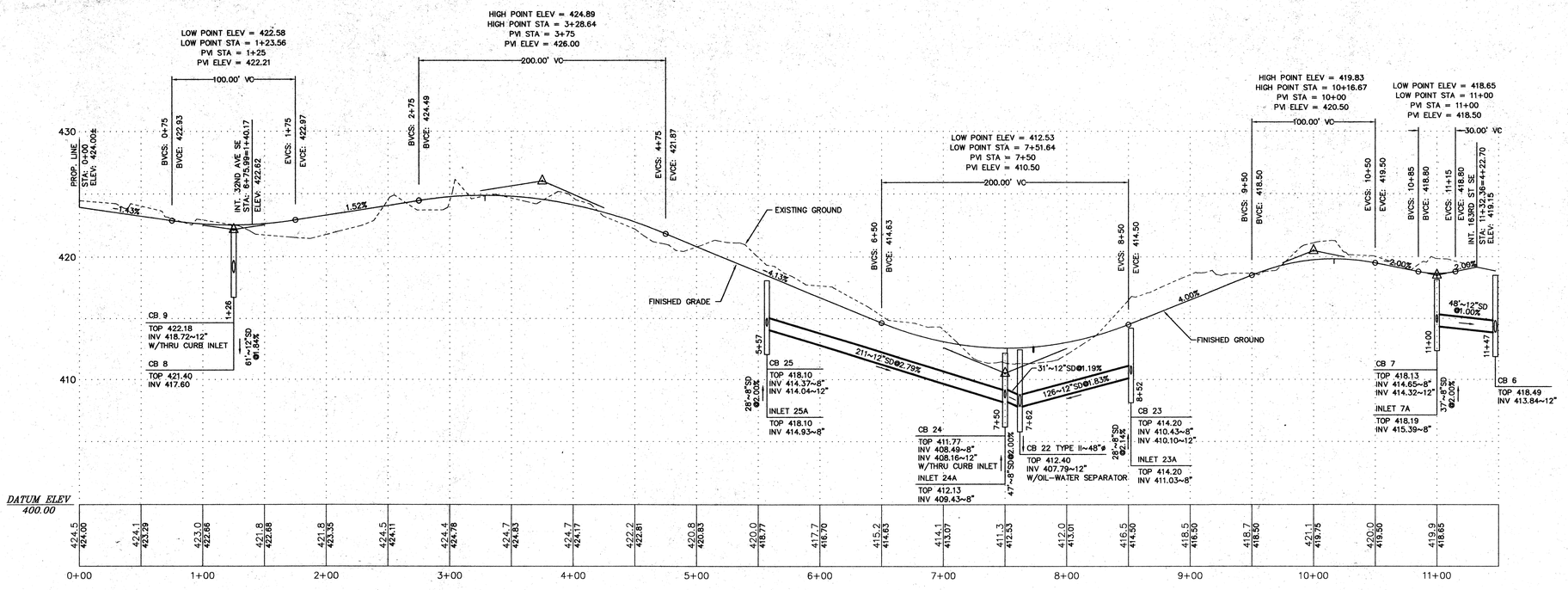
DATE	REVISION	BY
7/16/96	PER SNO. CO. REVIEW COMMENTS	ME
7/29/96	CITY OF MILL CREEK REVIEW COMMENTS	ME
9/19/96	PER SNO. CO. REVIEW COMMENTS	ME

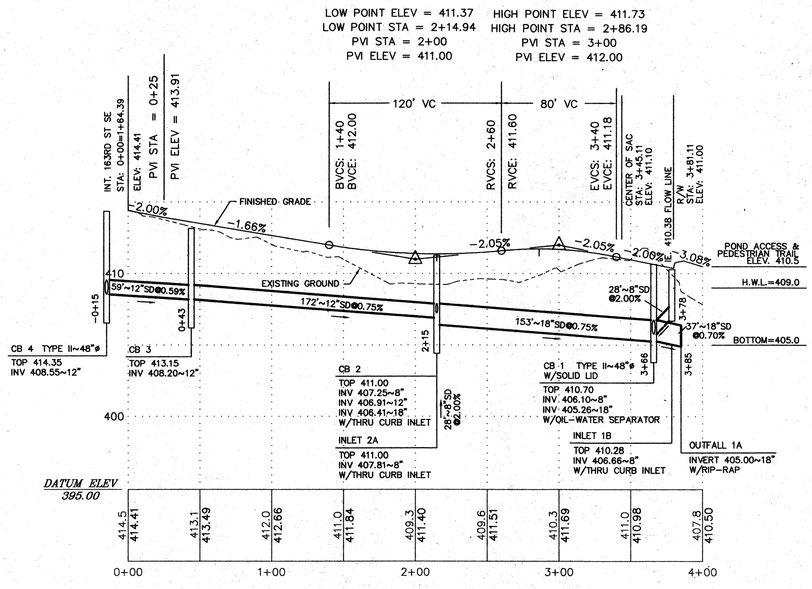
OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5654

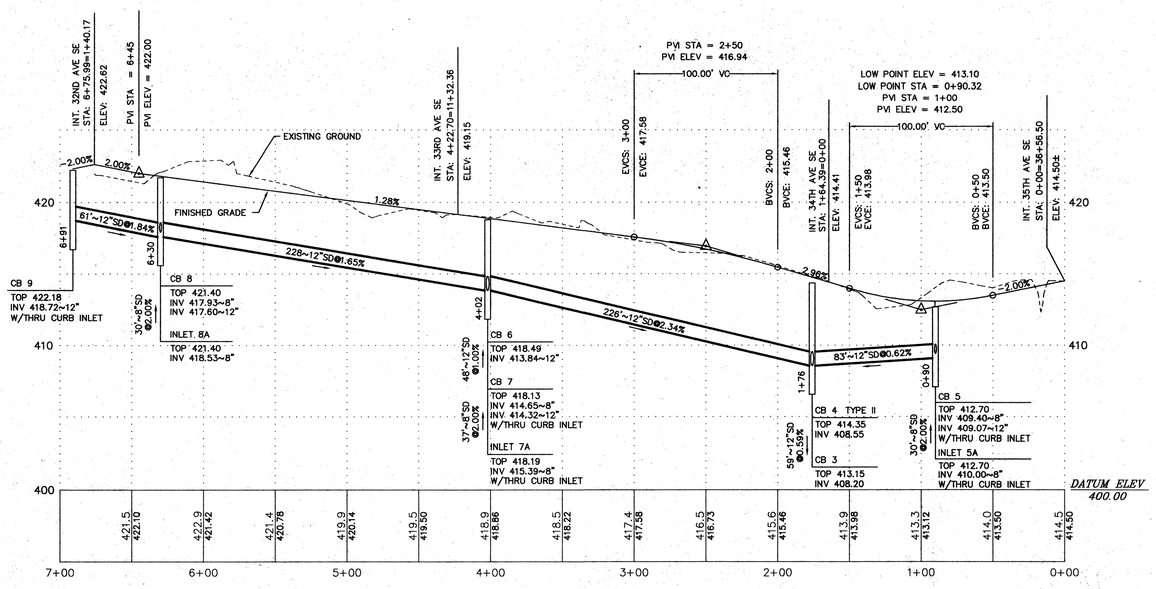
THE PARKS AT MILL CREEK
COVER SHEET
CITY OF MILL CREEK (SNO CO PFN 96-105442) WASHINGTON
DIVISION 7

Revised ME

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







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

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 1/16/97

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

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER 9/18/96 DATE

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. EVERETT, WA 98201
(206) 259-8445 BELLEVUE: (206) 827-5854

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

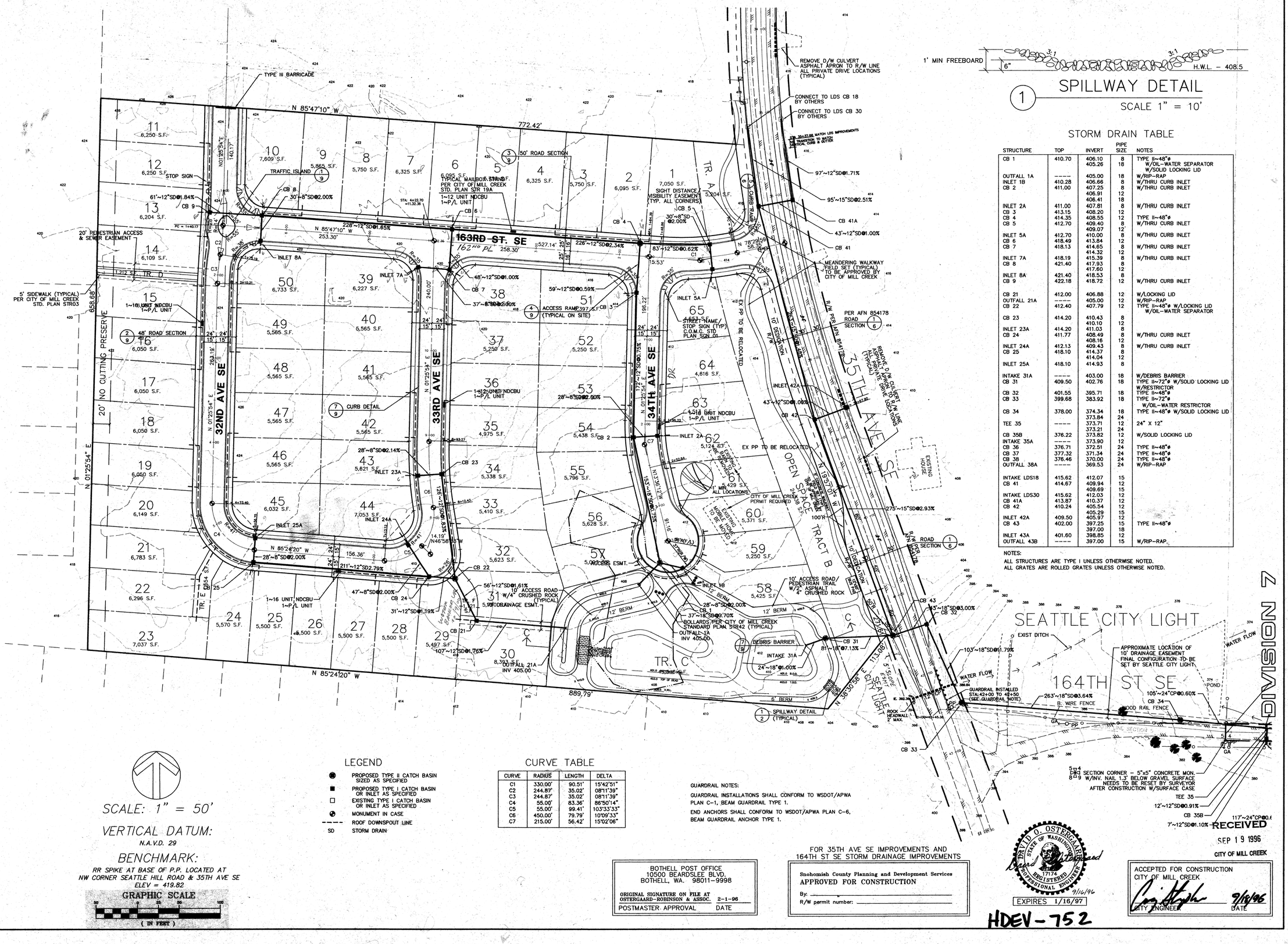
DIVISION 7

Designed ME/KR
Checked
Drawn ME
Checked
As-built

Sheet 3 of 12

Job No. 93129

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


N 85°47'10" W
772.42'
163RD ST. SE
162ND PL
258.30'
527.14'
N 85°47'10" W
253.30'
228'~12"SD@1.65%
226'~12"SD@2.34%
83'~12"SD@0.62%
N 78°29'09" E
58.53'
TYPE III BARRICADE
STOP SIGN
TRAFFIC ISLAND
CB 8
30'~8"SD@2.00%
61'~12"SD@1.84%
CB 9
CB 6
CB 5
CB 4
50' ROAD SECTION
6,096 S.F. TYPICAL MAILBOX STAND PER CITY OF MILL CREEK STD. PLAN STR 19A
1~12 UNIT NDCBU 1~P/L UNIT
SIGHT DISTANCE / VISIBILITY EASEMENT (TYP. ALL CORNERS)
REMOVE D/W CULVERT ASPHALT APRON TO R/W LINE ALL PRIVATE DRIVE LOCATIONS (TYPICAL)
CONNECT TO LDS CB 18 BY OTHERS
CONNECT TO LDS CB 30 BY OTHERS
97'~12"SD@1.71%
95'~15"SD@2.51%
CB 41A
43'~12"SD@1.00%
CB 41
MEANDERING WALKWAY FIELD SET (TYPICAL) TO BE APPROVED BY CITY OF MILL CREEK
20' PEDESTRIAN ACCESS & SEWER EASEMENT
INLET 8A
INLET 7A
48'~12"SD@1.00%
CB 7
59'~12"SD@0.59%
37'~8"SD@2.60%
51 397 S.F. ACCESS RAMP (TYPICAL ON SITE)
CB 3
INLET 5A
65 4,682 S.F. STREET NAME / STOP SIGN (TYP) C.O.M.C. STD PLAN SGN 01
5' SIDEWALK (TYPICAL) PER CITY OF MILL CREEK STD. PLAN STR03
1~16 UNIT NDCBU 1~P/L UNIT
48' ROAD SECTION
20' NO CUTTING PRESERVE
32ND AVE SE
33RD AVE SE
34TH AVE SE
CURB DETAIL
36 4,975 S.F. 1~15 UNIT NDCBU 1~P/L UNIT
53 5,438 S.F.
28'~8"SD@2.60%
64 4,616 S.F.
63 4,518 S.F. 1~P/L UNIT
INLET 42A
43'~12"SD@1.08%
CB 42
CB 2
INLET 2A
62 5,124 S.F.
EX PP TO BE RELOCATED
PER AFN 8541?8 ROAD SECTION
REMOVE D/W CULVERT ASPHALT APRON TO R/W LINE (TYPICAL) ALL PRIVATE DRIVE LOCATIONS
35TH AVE SE
OPEN SPACE TRACT B
1' MIN FREEBOARD
6"
H.W.L. – 408.5
SPILLWAY DETAIL
SCALE 1" = 10'
CITY OF MILL CREEK PERMIT REQUIRED
EXISTING HOME TO BE MOVED
60 5,371 S.F.
61 5,429 S.F.
1' MIN FREEBOARD ALL LOCATIONS
275'~15"SD@2.93%
100'R
ROAD SECTION
EXISTING HOUSE
56 5,628 S.F.
59 5,250 S.F.
57 5,083 S.F. ACCESS ESMT.
INLET 1A
INLET 24A
156.36'
211'~12"SD@2.79%
47'~8"SD@2.00%
CB 24
31'~12"SD@1.19%
1~16 UNIT NDCBU 1~P/L UNIT
CB 22
56'~12"SD@1.61%
10' ACCESS ROAD W/4" CRUSHED ROCK (TYPICAL)
5,199 S.F. DRAINAGE ESMT.
INLET 1B
58 5,425 S.F.
10' ACCESS ROAD/ PEDESTRIAN TRAIL W/4" ASPHALT 4" CRUSHED ROCK
28'~8"SD@2.00%
37'~18"SD@0.70%
BOLLARDS PER CITY OF MILL CREEK STANDARD PLAN STR42 (TYPICAL)
OUTFALL 1A INV 405.00
DEBRIS BARRIER
INTAKE 31A
24'~18"SD@1.00%
CB 31
81'~18"SD@1.13%
CB 43
115'~18"SD@3.00%
CB 32
SEATTLE CITY LIGHT
EXIST DITCH
103'~18"SD@1.79%
APPROXIMATE LOCATION OF 10' DRAINAGE EASEMENT FINAL CONFIGURATION TO BE SET BY SEATTLE CITY LIGHT
WATER FLOW
164TH ST SE
GUARDRAIL INSTALLED STA:42+00 TO 42+50 (SEE GUARDRAIL NOTE)
263'~18"SD@3.64%
B. WIRE FENCE
105'~24"CP@0.60%
CB 34
WOOD RAIL FENCE
POND
SECTION CORNER – 5"x5" CONCRETE MON. W/INV. NAIL 1.3' BELOW GRAVEL SURFACE NEEDS TO BE RESET BY SURVEYOR AFTER CONSTRUCTION W/SURFACE CASE
TEE 35
12'~12"SD@0.91%
CB 35B
7'~12"SD@1.10%
117'~24"CP@0.6
CB 33
ROCK HEADWALL 2' MAX.
6' BERM
SPILLWAY DETAIL (TYPICAL)
N 38°30'58" E
113.06'
N 19°57'07" W
175.68'
N 85°24'20" W
889.79'
N 01°25'54" E
658.68'
253.19'
140.17'
TR. A
TR. C
TR. D
TR. E
1,212 S.F.
1~16 UNIT NDCBU 1~P/L UNIT
1~P/L UNIT
1~16 UNIT NDCBU 1~P/L UNIT
1~P/L UNIT
1~P/L UNIT

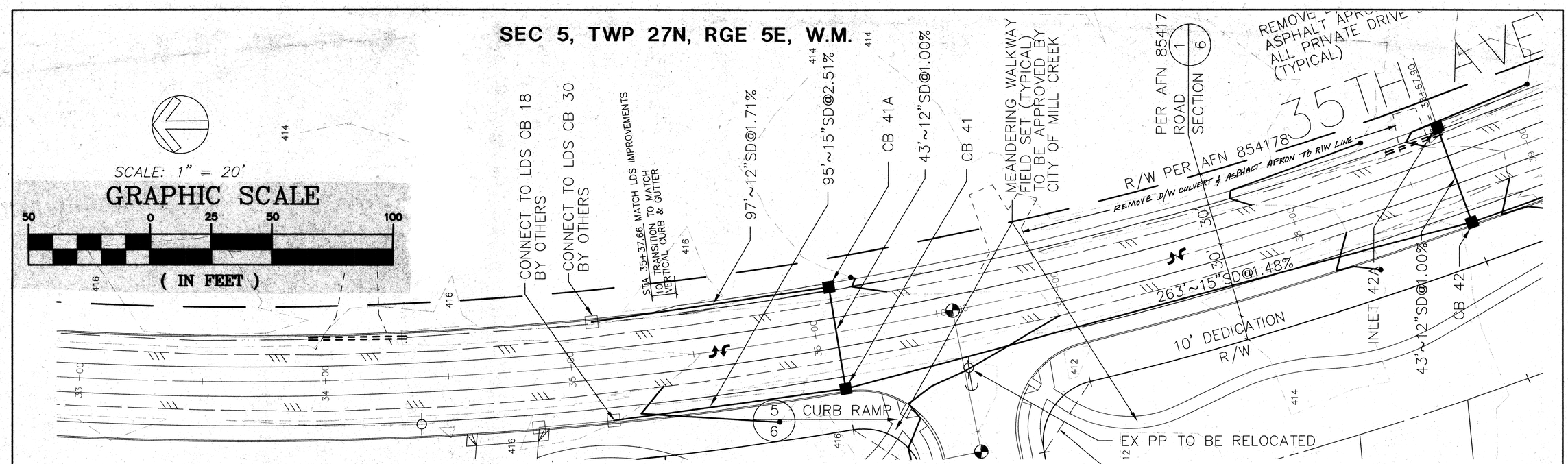
SEC 5, TWP 27N, RGE 5E, W.M.

SCALE: 1" = 20'

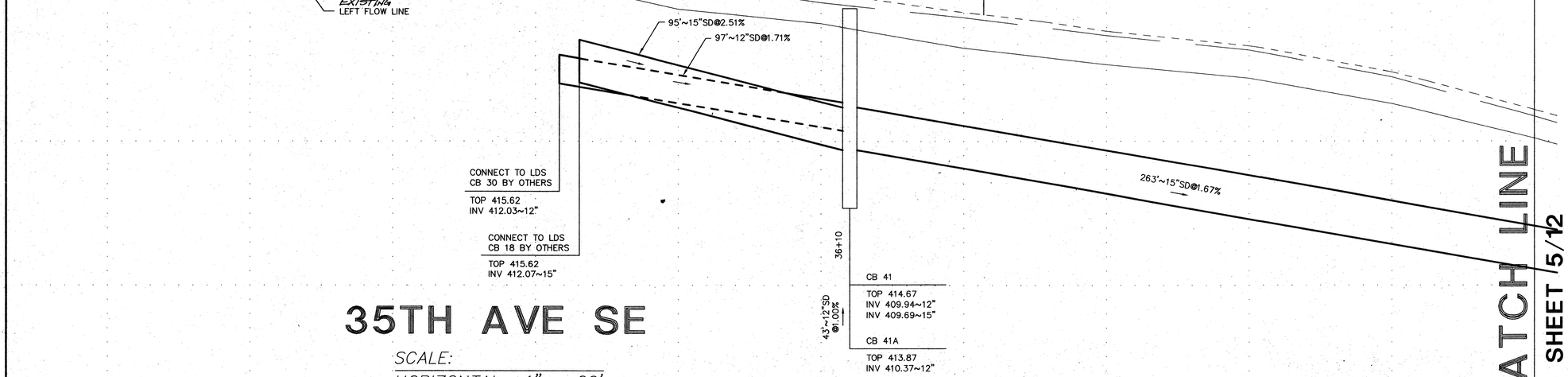
GRAPHIC SCALE

50 0 25 50 100

(IN FEET)



NOTE:
NO SUBDIVISION MONUMENT SIGNS ALLOWED IN R/W.



35TH AVE SE

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

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

HDEV-753

SHEET 5/12

DIVISION 7

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER 9/16/96

EXPIRES 1/16/97

RECEIVED
SEP 19 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: _____

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

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3706 COLBY AVE. #1 EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-6854

THE PARKS AT MILL CREEK

FRONTAGE IMPROVEMENTS

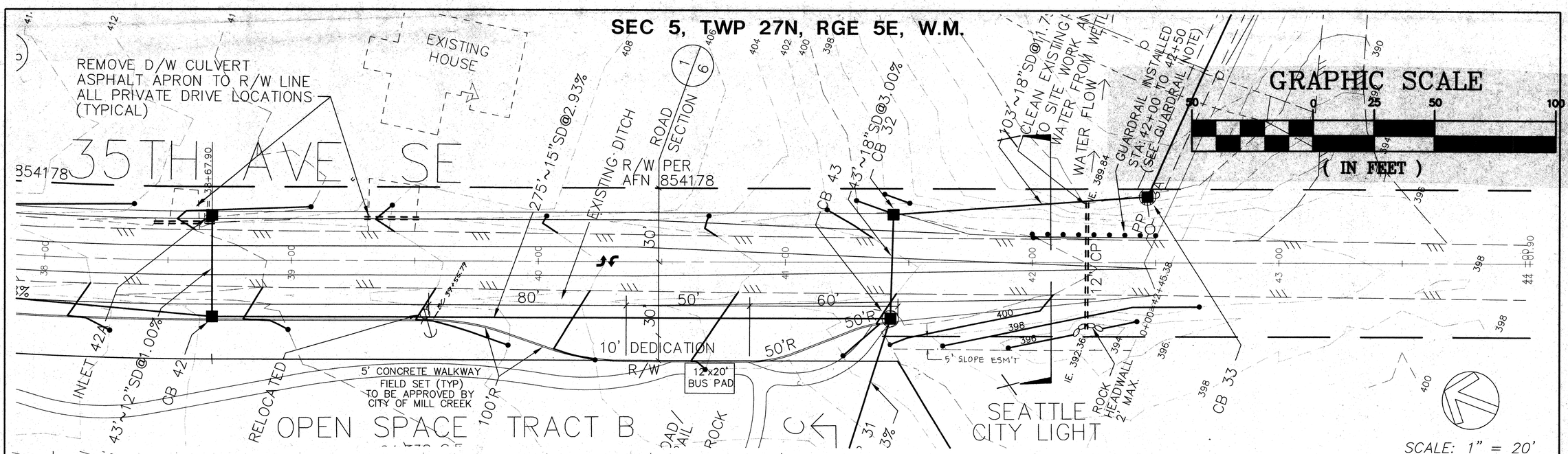
CITY OF MILL CREEK WASHINGTON

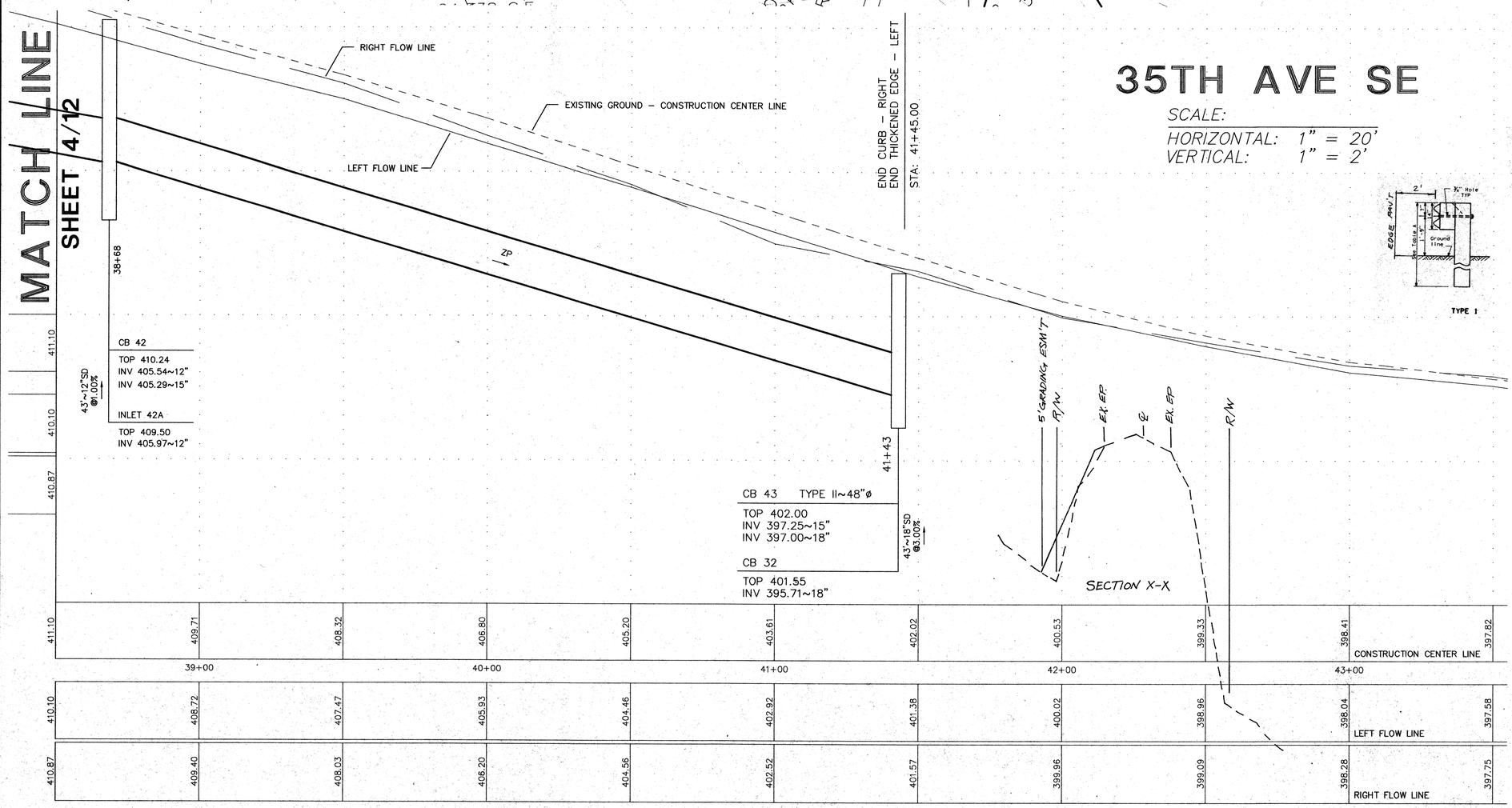
Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 4 of 12

Job No. 93129

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





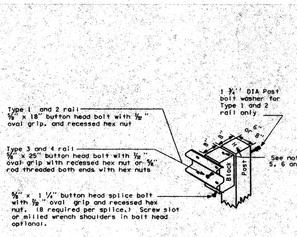
35TH AVE SE

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.



WOOD POST ASSEMBLY DETAILS

TABLE A			
GUARDRAIL TYPE	WOOD POSTS AUGER AND BACKFILL	STEEL POSTS AUGER AND BACKFILL	STEEL POSTS DRIVEN
1	6'	7'	6'
2, 3 and 4	6'	7'	6'

DIVISION 7

DAVID O. OSTERGAARD STATE OF WASHINGTON 12174 REGISTERED PROFESSIONAL ENGINEER
9/16/96
EXPIRES 1/16/97

RECEIVED
SEP 19 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
9/1/96	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) 827-5864

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

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

STORM DRAINAGE NOTES

1. UNLESS OTHERWISE NOTED, ALL STORM SEWER PIPE SHALL BE CONCRETE (CP) NON-REINFORCED, ASTM C-14 (24" DIAMETER AND LARGER TO BE REINFORCED. ASTM C-76), OR CORRUGATED METAL (CMP). CMP TO BE GALVANIZED STEEL WITH TREATMENT 5 ASPHALT COATING OR BETTER, OR CORRUGATED ALUMINUM SPIRAL RIB PIPE. ALL PIPES SHALL HAVE RUBBER GASKETS.

   COVERAGE REQUIREMENTS FOR 12" PIPE

   < 1.0' – REQUIRES RCP (REINFORCED CONCRETE PIPE) MINIMUM
   1.0'-1.5' – REQUIRES CP (CONCRETE PIPE) MINIMUM
   > 1.5' – REQUIRES 16 GAUGE CMP (CORRUGATED METAL PIPE) MINIMUM

2. 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.

3. 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 THE PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO WSDOT STANDARD SPECIFICATION 7-04.3(3) AND STANDARD SPECIFICATION 2-03.3(14)C, METHOD B & C.

4. ALL GRATES (INLET AND CATCH BASIN) SHALL BE DEPRESSED 0.1 FEET BELOW PAVEMENT LEVEL.

5. ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.

7. ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).

8. ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE 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 MANHOLE.

9. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.

10. CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435, 5435A, OR 50503A, LOCKING TYPE OR EQUAL. MODEL 5435A IS REFERRED TO AS A "THRU CURB INLET" ON THE PLAN. MODEL 50503A IS REFERRED TO AS A "ROLLED GRATE INLET" IN THE PLAN.

11. STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO SNOHOMISH COUNTY ACCEPTANCE.

12. PIPE MATERIALS SHALL COMPLY WITH SECTION 9-05 OF THE WSDOT/APWA SPECIFICATIONS WITH THE FOLLOWING CLARIFICATIONS:

    DOUBLE WALLED (SMOOTH INTERIOR) CORRUGATED POLYETHYLENE PIPE, MEETING THE REQUIREMENTS OF AASHTO M252 IN 8 INCH SIZE AND AASHTO M294S IN SIZES 12" THROUGH 36", IS AN ACCEPTABLE ALTERNATIVE FOR SCHEDULE A CULVERT PIPE, AS SHOWN ON WSDOT/APWA STANDARD PLAN B-17 AND FOR STORM SEWERS IN ACCORDANCE WITH THESE STANDARDS.

    THE ENDS OF THE PIPE SHALL BE BEVELED TO MATCH THE SLOPE. CORRUGATED POLYETHYLENE PIPE SHALL NOT BE USED WHEN BEVELED SLOPES ARE FLATTER THAT 4:1. FOR ANY PIPE LENGTH SECTION THAT IS TO BE BEVELED ON THE END, THE MINIMUM LENGTH OF THE UNBEVELLED PORTION OF THE PIPE SHALL BE 6 FEET.

    THE PIPE SHALL BE INSTALLED IN A DESIGN "A" TRENCH AS SHOWN ON STANDARD DRAWING 9-210. FOR BURIAL DEPTHS EXCEEDING 15 FEET, THE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THESE STANDARDS.

GENERAL NOTES

1. 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.

2. ALL OFF-SITE AND/OR WORK WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE COUNTY INSPECTOR OR HIS DESIGNED REPRESENTATIVE.

3. PRIOR TO ANY 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.

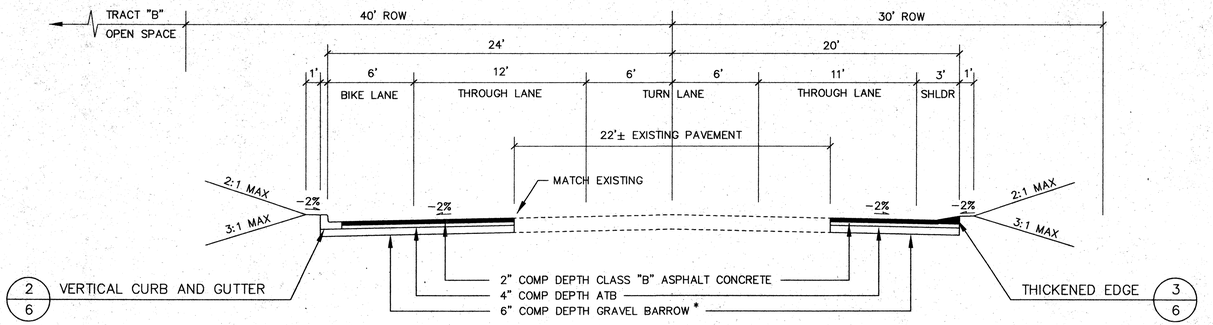
4. THE DEVELOPER/PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.

5. 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.

6. 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 EROSION HAS PASSED.

7. 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 EMBANKMENTS METHOD B.

8. 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.



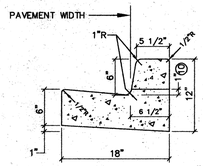
1 TYPICAL ROAD SECTION

35TH AVE SE (STA 35+34-STA 41+47) NO SCALE

* AT THE ENGINEER'S DISCRETION, THE 6 INCH GRAVEL BARROW LAYER MAY BE ELIMINATED OR SUBSTITUTED WITH A LESSER THICKNESS OF GRAVEL BARROW OR EQUIVALENT MATERIAL WHEN SUBGRADE CONDITIONS WARRANT AS SUBSTANTIATED BY MATERIALS TESTING.

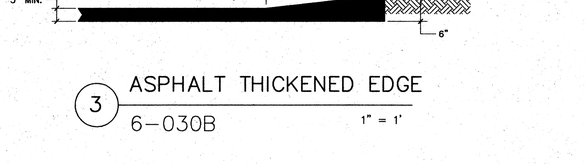
NOTES:

1. 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.
2. ALL CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 3000.
3. 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.
4. 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.
5. CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
6. ALL JOINTS SHALL BE CLEAN AND EDGED.
7. FINISH SHALL BE LIGHT BROOM FINISH.
8. FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.
9. VERTICAL CURB WILL BE REQUIRED IN ALL CASES EXCEPT ON ACCESS AND SUBCOLLECTOR STREETS. FOR THESE STREETS, VERTICAL OR ROLLED CURBS WILL BE ALLOWED AT THE DISCRETION OF THE DEVELOPER.
10. TOP OF CURB AT ACCESS POINT APPROACH.



2 CEMENT CONCRETE VERTICAL CURB AND GUTTER

6-030A 1" = 1'



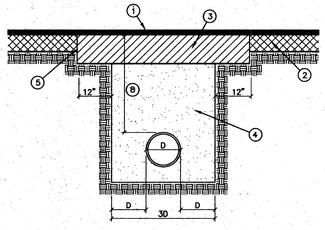
3 ASPHALT THICKENED EDGE

6-030B 1" = 1'

NOTES:

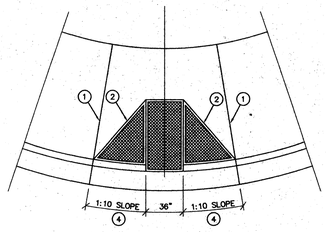
1. LONGITUDINAL TRENCH - 2" ASPHALT CLASS B OVERLAY. SEE SEC. 10-03.b.1.d.
   TRANSVERSE TRENCH - 2" ASPHALT CLASS B OVERLY WHERE MULTIPLE CROSSINGS BY SAME UTILITY. SEE SEC. 10-03.b.2.d.
2. EXISTING PAVEMENT
3. LONGITUDINAL TRENCH - 6" ACP OR 2" ACP + 4" ATB SEE SEC. 10-03.b.1.c. TRANSVERSE TRENCH - 8" ACP OR 2" ACP + 6" ATB SEE SEC. 10-03.b.2.c.
4. NATIVE MATERIAL, BANK RUN GRAVEL, OR CONTROL DENSITY FILL. SEE SEC. 10-03 & 10-04.
5. NEAT LINE CUT, CLEAN, HEAT & TACK EDGES WITH SEALER SS-1 & SEAL WITH HOT ASPHALT CEMENT.
6. TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL BE ACCOMPLISHED BY USING COLD MIX, ATB, OR STEEL PLATES.
7. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 5-04 OF THE WSDOT/APWA SPECIFICATIONS.
8. SEE TEST SECTION 10-02 FOR DEPTHS OF COVER.

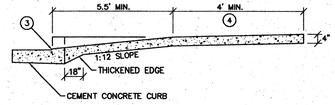
SEE TEXT SECTION 10-02, 10-03, 10-04



4 UTILITY TRENCH RESTORATION AND BACKFILL

10-030 NO SCALE





NOTES:

1. FULL DEPTH EXPANSION JOINT, 3/8" MIN. WIDTH. PREMOLDED JOINT FILLER.
2. 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.
3. 1/2" MAX. LIP AT GUTTER LINE.
4. IF LANDING AREA IS LESS THAN 4', DECREASE SIDE RAMP SLOPE TO 1:12.

5 TYPE B CURB RAMP

35TH AVE SE (SNOHOMISH COUNTY 6-040B) NO SCALE

THIS SHEET APPLIES TO OFF-SITE WORK ON 35TH AVE SE AND 164TH ST SE

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER 9/16/96

EXPIRES 1/16/97

HDEV-755

RECEIVED
SEP 19 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: _____
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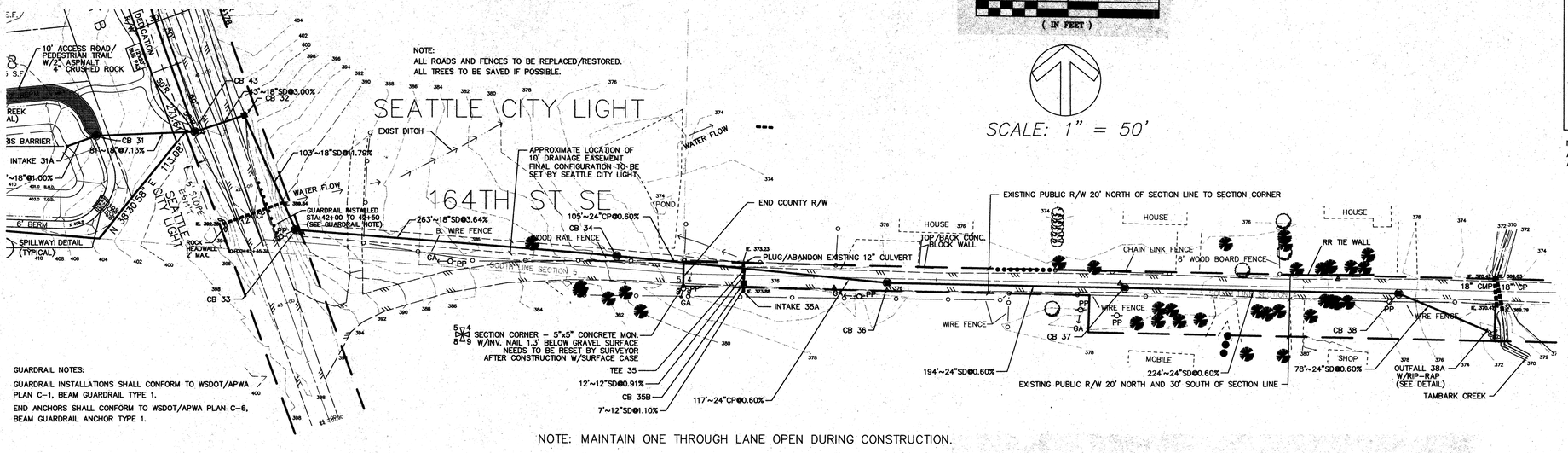
THE PARKS AT MILL CREEK
SNOHOMISH COUNTY WASHINGTON
CITY OF MILL CREEK
DIVISION 7
DETAILS

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 6 of 12

Job No. 93129

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



NOTE: MAINTAIN ONE THROUGH LANE OPEN DURING CONSTRUCTION.

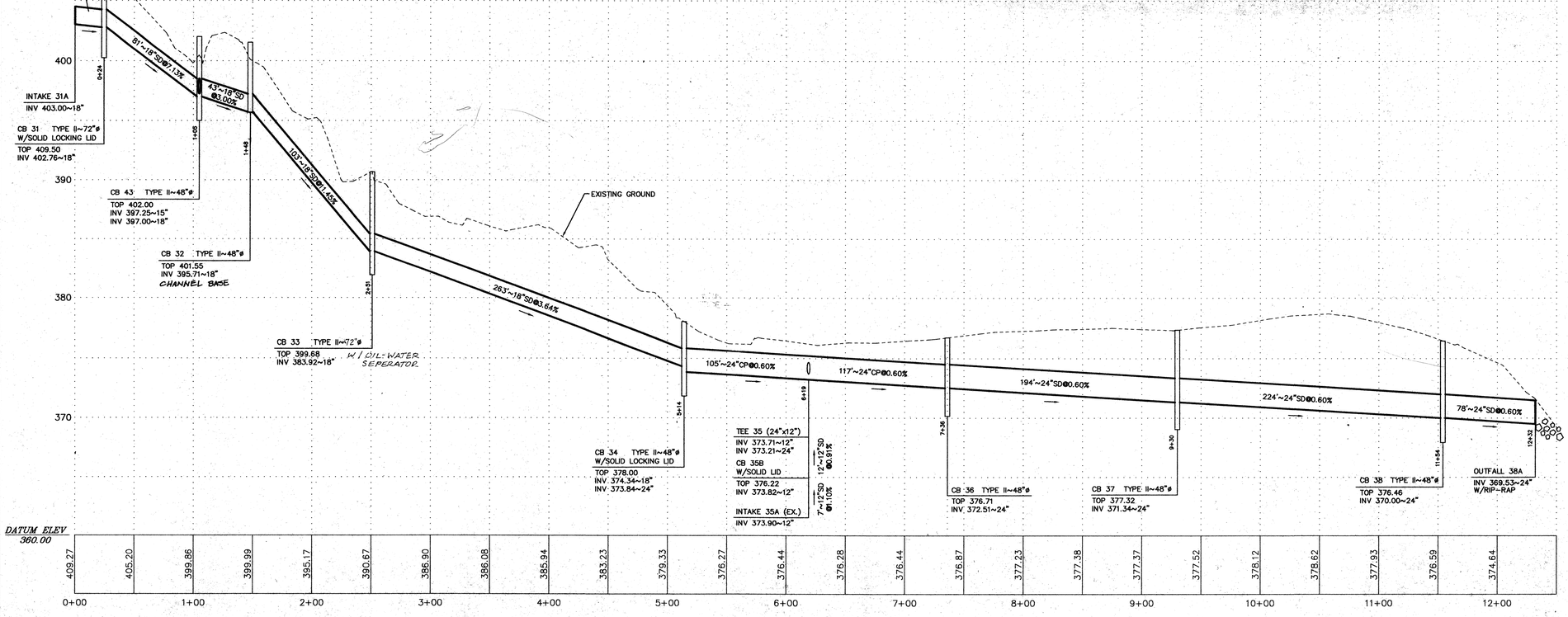
GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

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"ø W/SOLID LOCKING LID W/RESTRICTOR
CB 43	402.00	397.25	15	TYPE II~48"ø
		397.00	18	
CB 32	401.55	395.71	18	TYPE II~48"ø
CB 33	399.68	383.92	18	TYPE II~72"ø W/OIL-WATER SEP.
CB 34	378.00	374.34	18	TYPE II~48"ø W/SOLID LOCKING LID
		373.84	24	
TEE 35	-----	373.71	12	24" X 12"
		373.21	24	
CB 35B	376.22	373.82	12	W/SOLID LOCKING LID
INTAKE 35A	-----	273.90	12	
CB 36	376.71	372.51	24	TYPE II~48"ø
CB 37	377.32	371.34	24	TYPE II~48"ø
CB 38	376.46	370.00	24	TYPE II~48"ø
OUTFALL 38A	-----	369.53	24	W/RIP-RAP

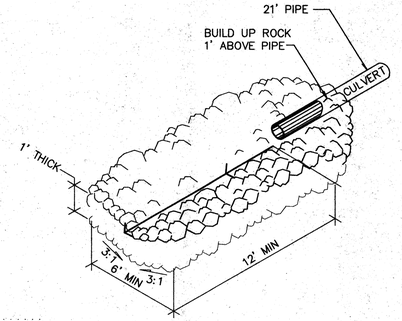
NOTES:
ALL STRUCTURES ARE TYPE I UNLESS OTHERWISE NOTED.
ALL GRATES ARE ROLLED GRATES UNLESS OTHERWISE NOTED.



DOWN STREAM - 164TH ST SE

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

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"

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER 9/16/96
EXPIRES 1/16/97

RECEIVED
SEP 19 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-756

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

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5864

DIVISION 7

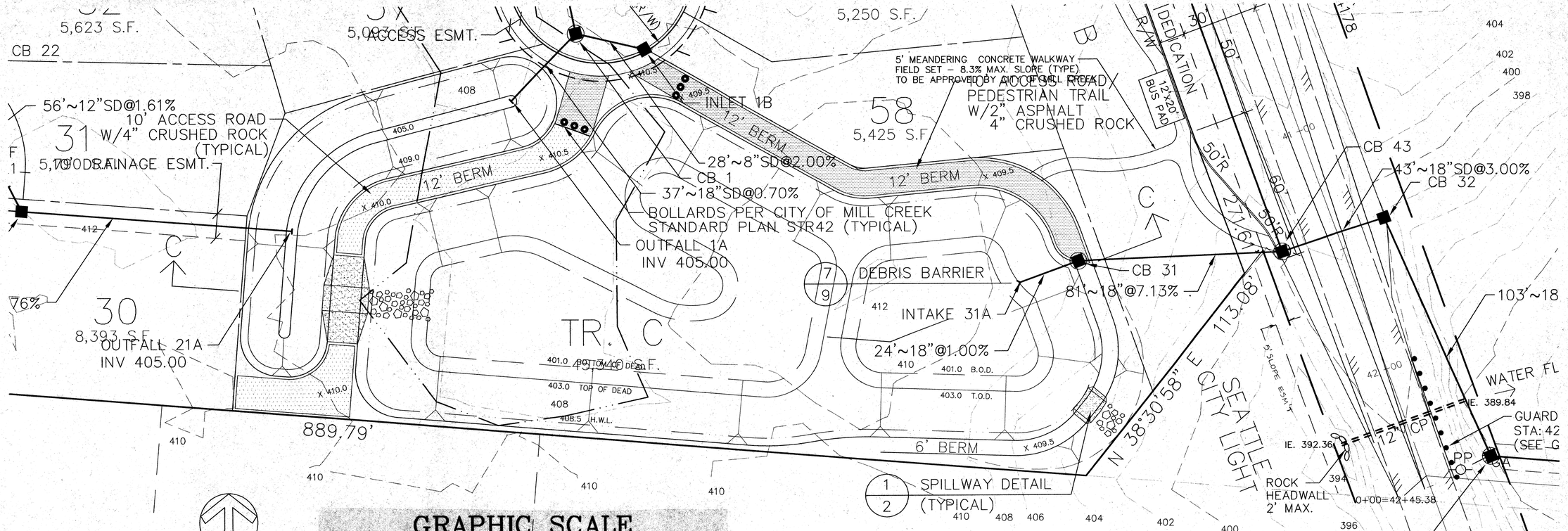
THE PARKS AT MILL CREEK
ROAD + STORM DRAINAGE 164TH ST IMPROVEMENTS
WASHINGTON
CITY OF MILL CREEK

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 7 of 12

Job No. 93129

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



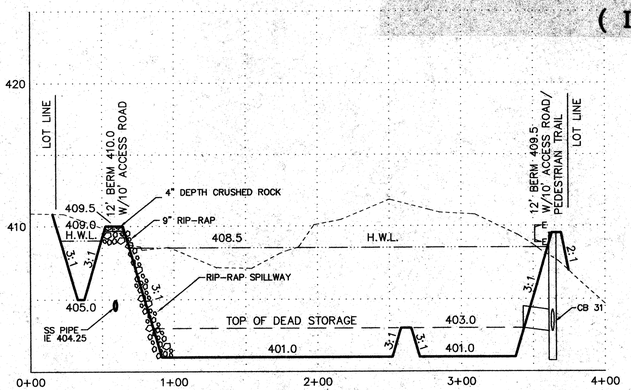
GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

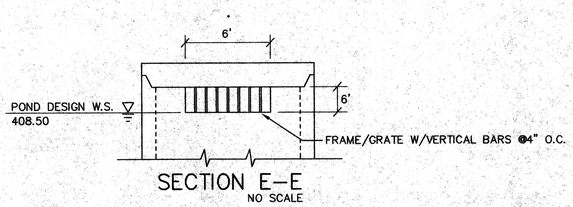
SCALE: 1" = 20'

1 / 2 SPILLWAY DETAIL (TYPICAL)

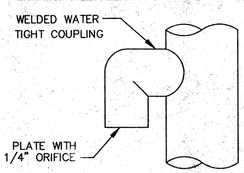


CROSS SECTION C-C POND

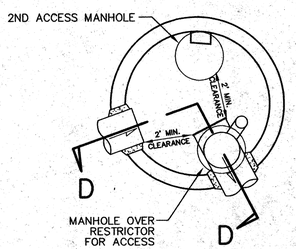
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



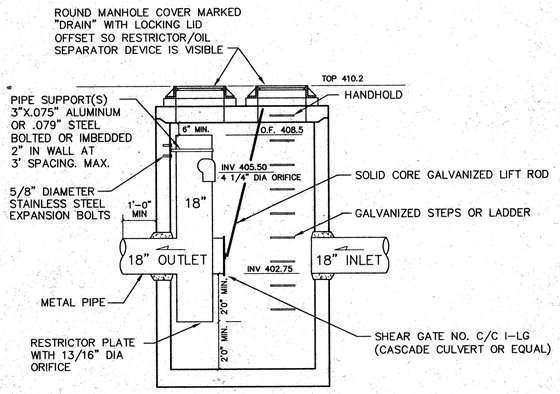
SECTION E-E
NO SCALE



ELBOW DETAIL



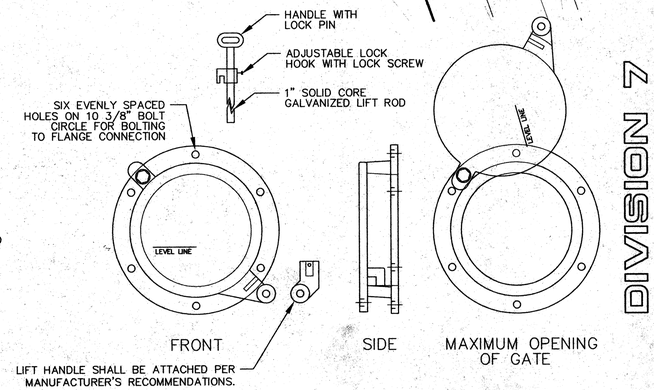
PLAN VIEW



SECTION D-D

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

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER 9/16/96
EXPIRES 1/16/97

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER 9/19/96 DATE

HDEV-757

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
9/1/96	PER SNO. CO. REVIEW	ME
9/16/96	CITY OF MILL CREEK REVIEW COMMENTS	ME

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 DRAINAGE
POND PLAN + DETAILS
CITY OF MILL CREEK WASHINGTON

DIVISION 7

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 8 of 12

Job No. 93129

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

GENERAL PLAN NOTES

1. 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.
2. ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
3. A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. 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.
5. 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.
6. 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.
7. DISTURBED SOIL SHALL BE GRASS SEEDED IF NOT WORKED WITHIN 30 DAYS.

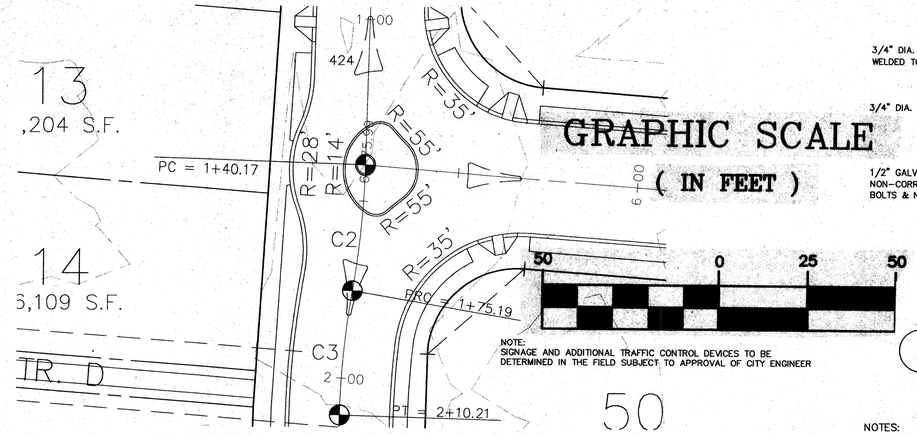
STORM DRAINAGE NOTES

1. 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.
2. 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.
3. ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
5. ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
6. ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
7. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
8. 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.
9. 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."
10. STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
11. 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.

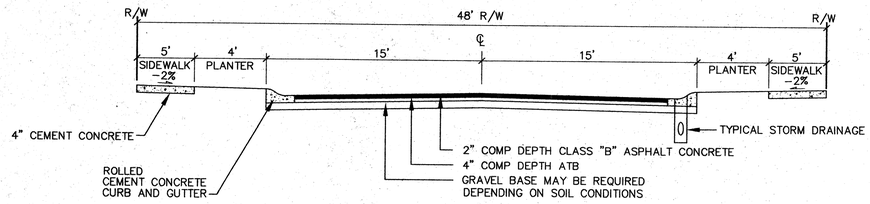
    MATERIALS ALLOWED FOR STORM DRAIN LINES:
    - PLAIN CONCRETE PIPE
    - REINFORCED CONCRETE PIPE
    - ALUMINUM SPIRAL RIB PIPE

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

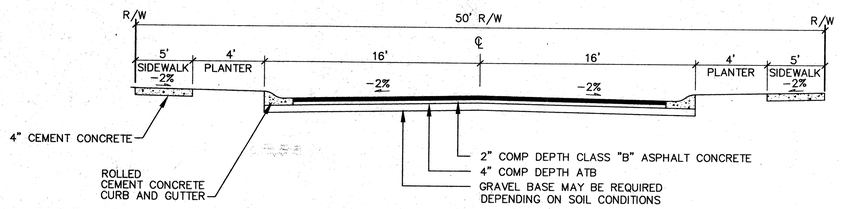
CONSTRUCTION SEQUENCE
1. ATTEND PRE–CONSTRUCTION MEETING (INCLUDING EXCAVATION CONTRACTOR).
2. INSTALL SILT FENCES AND BARRIER FENCES WHERE SPECIFIED.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCE.
4. FLAG CLEARING LIMITS. CALL CITY FOR INSPECTION AND APPROVAL.
5. CLEAR FOR AND INSTALL SEDIMENT TRAPS, INTERCEPTOR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



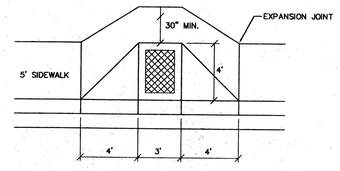
1 TRAFFIC ISLAND DETAIL
(32ND AVE SE & 163RD ST SE) 1" = 20'



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

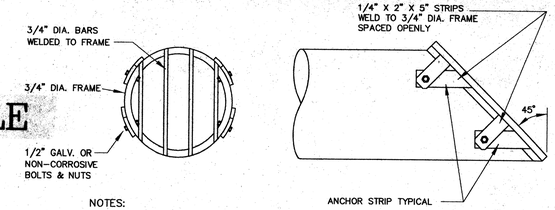


3 TYPICAL 50' ROAD SECTION – ON–SITE
(163RD ST SE & 32ND AVE SE) NO SCALE



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

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

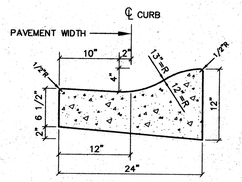


NOTES:
1. ALL STEEL PARTS SHALL BE GALVANIZED AND ASPHALT COATED WITH TREATMENT 1 OR BETTER.
2. FRONT GATE FRAME SHALL BE REMOVABLE.
3. SPACING BETWEEN GRATE BARS SHALL NOT EXCEED 3 INCHES C/C.
4. ALL FIELD WELDS SHALL BE FIELD GALVANIZED.

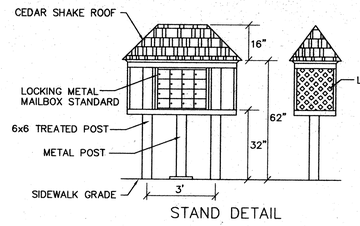
5 TYPICAL DEBRIS BARRIER
NO SCALE

NOTES:
1. 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.
2. ALL CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 3000.
3. 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.
4. 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.
5. CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
6. ALL JOINTS SHALL BE CLEAN AND EDGED.
7. FINISH SHALL BE LIGHT BROOM FINISH.
8. FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.

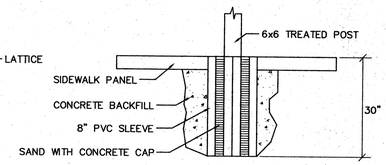
6 CURB DETAILS
NO SCALE



CEMENT CONCRETE
ROLLED CURB AND GUTTER

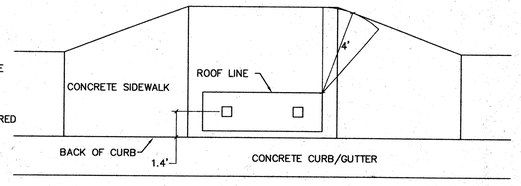


STAND DETAIL



BASE DETAIL

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



SIDEWALK DETAIL

7 TYPICAL LOCKING MAILBOX STAND
(NDCBU) NO SCALE

DAVID O. OSTERGAARD
STATE OF WASHINGTON
17174
REGISTERED PROFESSIONAL ENGINEER
9/16/96
EXPIRES 1/16/97

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER
9/19/96
DATE

RECEIVED
SEP 19 1996
CITY OF MILL CREEK

HDEV-758

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

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 DRAINAGE DETAILS + NOTES
CITY OF MILL CREEK WASHINGTON

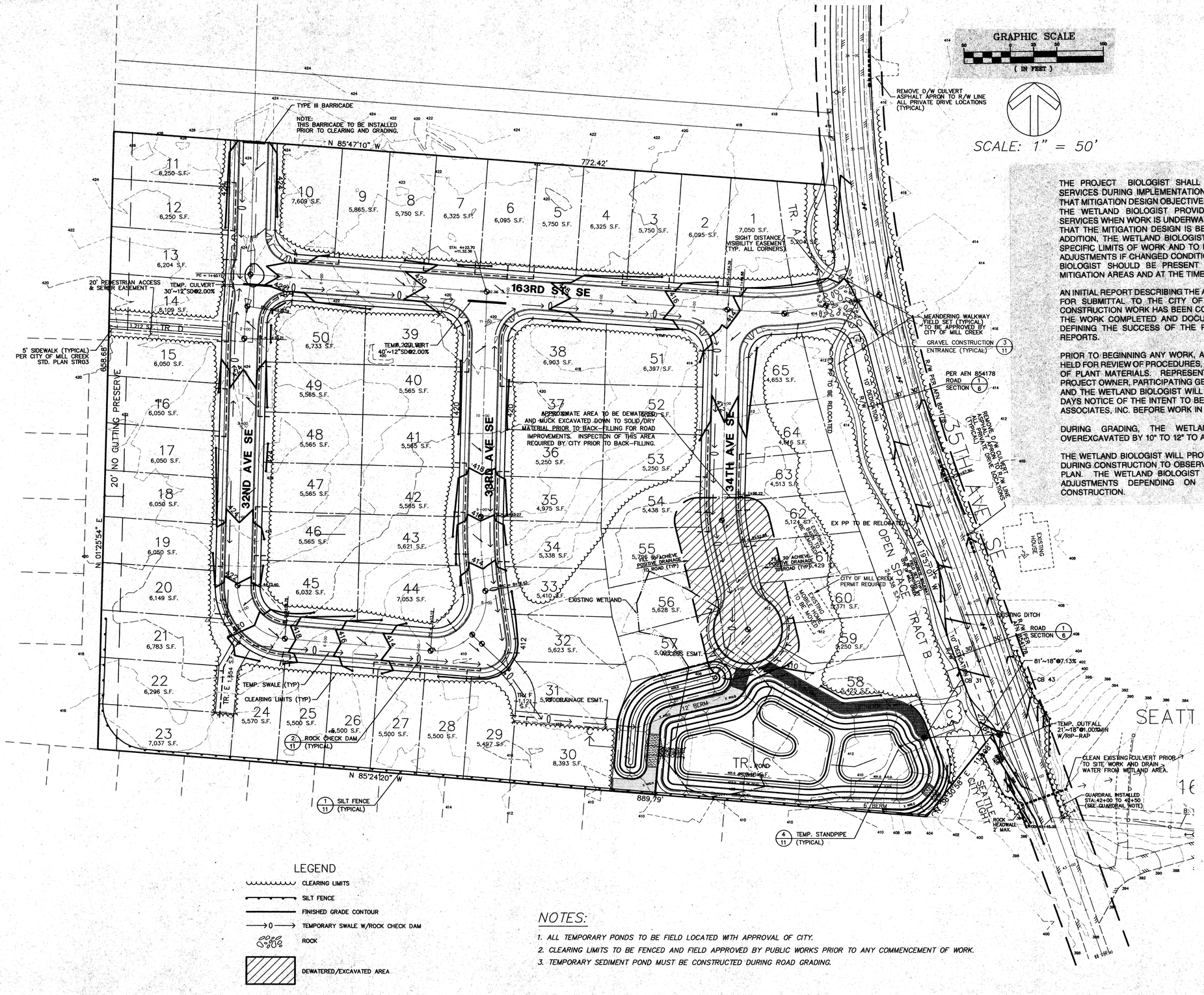
DIVISION 7

Designed ME
Checked
Drawn ME
Checked
As–built

Sheet 9 of 12

Job No. 93129

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



LEGEND

- CLEARING LIMITS
- SILT FENCE
- FINISHED GRADE CONTOUR
- →0→ 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.

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.

DAVID O. OSTERGAARD — STATE OF WASHINGTON — 17174 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES 1/16/97

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

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER — DATE 9/19/96

HDEV-759

DATE	REVISION	BY
7/16/96	PER SNO. CO. REVIEW COMMENTS	ME
7/29/96	CITY OF MILL CREEK REVIEW COMMENTS	ME
8/23/96	CITY OF MILL CREEK 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) 827-5854

DIVISION 7

THE PARKS AT MILL CREEK

GRADING + TESCP PLAN

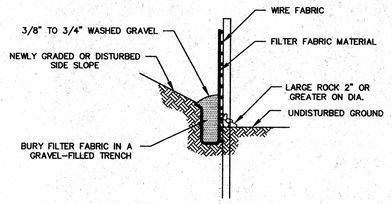
CITY OF MILL CREEK WASHINGTON

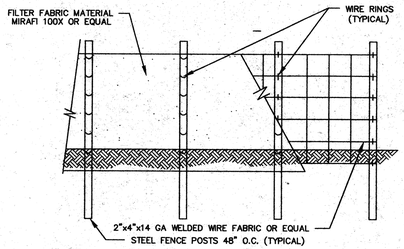
Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 10 of 12

Job No. 93129

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



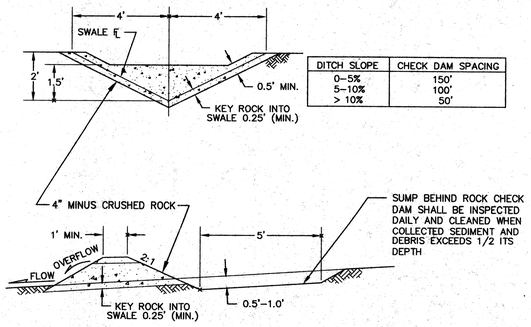


1 SILT FENCE DETAIL

NO SCALE

MAINTENANCE OF SILTATION BARRIERS

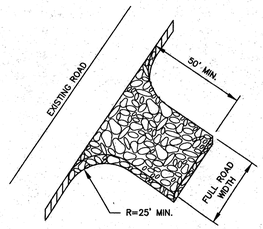
1. SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. 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.



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

2 ROCK CHECK DAM DETAILS

NO SCALE

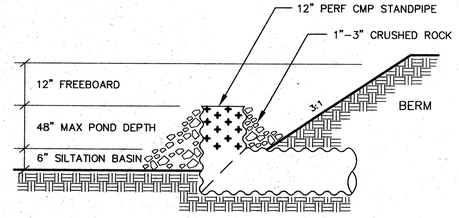


3 GRAVEL CONSTRUCTION ENTRANCE

NO SCALE

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.



4 TEMP. STANDPIPE DETAIL

NO SCALE

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.

DAVID O. OSTERGAARD STATE OF WASHINGTON 17174 REGISTERED PROFESSIONAL ENGINEER
8/27/96
EXPIRES 1/16/97

RECEIVED
SEP 19 1996
CITY OF MILL CREEK

ACCEPTED FOR CONSTRUCTION
CITY OF MILL CREEK
CITY ENGINEER 9/18/96 DATE

HDEV-760

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

OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-6654

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

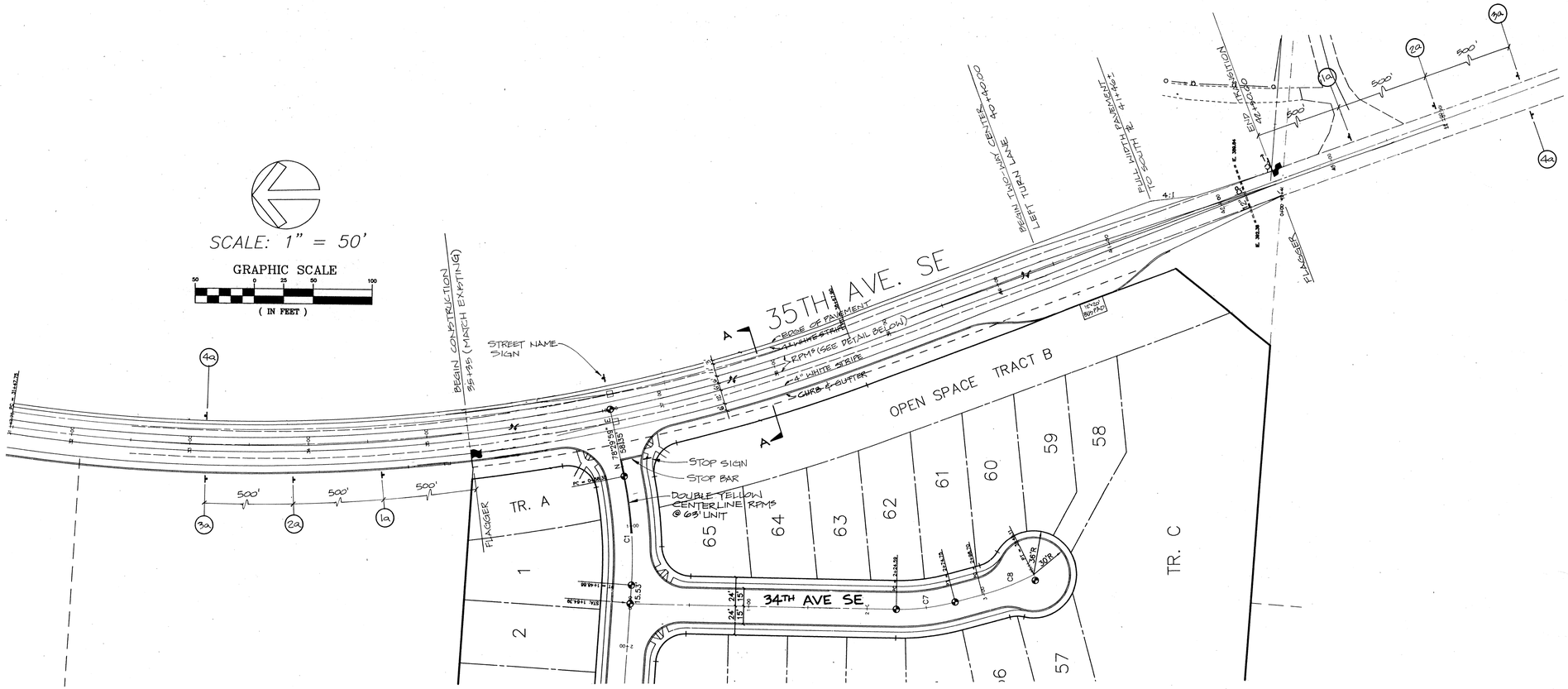
DIVISION 7

Designed ME
Checked
Drawn ME
Checked
As-built

Sheet 11 of 12

Job No. 93129

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.

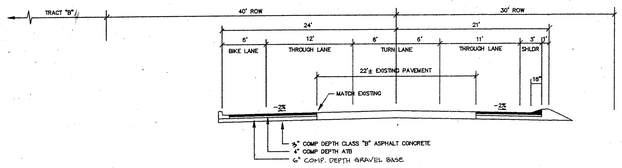
A right-of-way use permit is required from the Department of Public Works for any lane/road closure. Contact Public Works at 388-6408 at least 15 days prior to construction activity within the public right- of-way.

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.

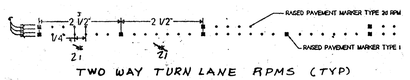
Snohomish County does not have jurisdiction on State Routes, the roads within incorporated cities, private roads or on private property. For any related activity encroaching on such property the applicant should obtain permission from the appropriate authority.

Access by emergency vehicles shall be maintained at all times.



1 TYPICAL ROAD SECTION A-A

CENTER LINE RPM'S (TYP)



TWO WAY TURN LANE RPMS (TYP)

CONSTRUCTION SIGNING SCHEDULE

PLAN CODE	MUTCD CODE	TYPE	QUANTITY
1a	W20-7a	FLAGGER SYMBOL @ "XX' FT"	2
2a	W20-4a	ONE LANE ROAD @ "XX' FT"	2
3a	W20-1	ROAD CONSTRUCTION @ "XX" 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

DAVID O. OSTERGAARD STATE OF WASHINGTON 17974 REGISTERED PROFESSIONAL ENGINEER
6/13/96
EXPIRES 1/16/97

HDEV-761

RECEIVED
SEP 19 1996
CITY OF MILL CREEK

DATE	REVISION	BY

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

DIVISION 7

THE PARKS AT MILL CREEK

CHANNELIZATION, SIGNING & CONSTRUCTION SIGNING PLAN

CITY OF MILL CREEK WASHINGTON

Designed ME LBR
Checked
Drawn ME LBR
Checked
As-built

Sheet 12 of 12

Job No. 93129