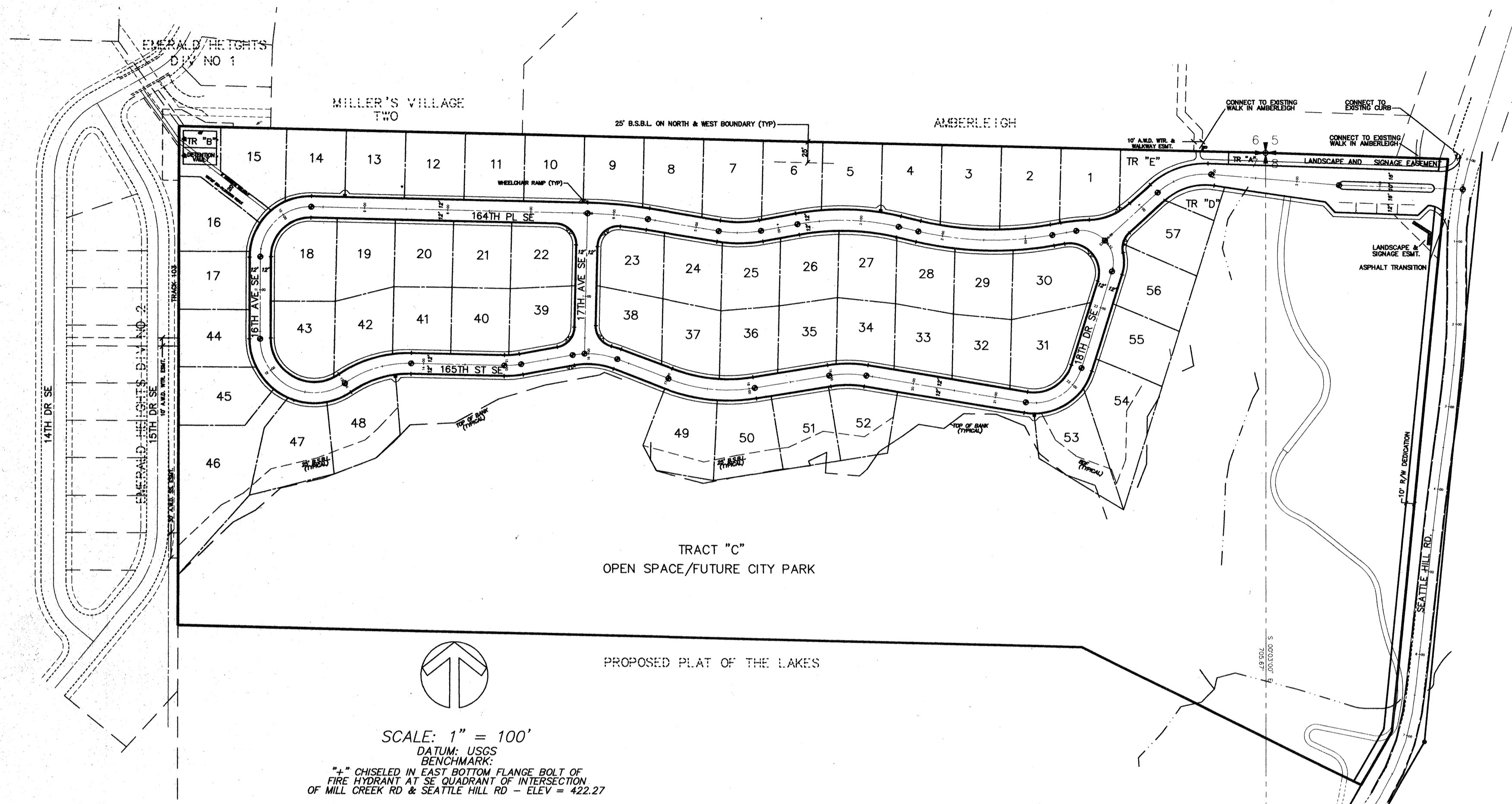


NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



VICINITY MAP  
SCALE: 1" = 2560'

WINSLOW

**LEGAL DESCRIPTION:**  
 THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 8, AND THAT PORTION OF THE NORTHEAST QUARTER OF SECTION 7, ALL IN TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M., IN SNOHOMISH COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:  
 BEGINNING AT THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 8;  
 THENCE SOUTH 88°08'41" EAST ALONG THE NORTH LINE THEREOF, 222.15 FEET TO THE WEST MARGIN OF SEATTLE HILL ROAD;  
 THENCE SOUTH 5°45'49" WEST ALONG SAID WEST MARGIN, 693.69 FEET;  
 THENCE CONTINUE, ALONG SAID WEST MARGIN, 75.22 FEET;  
 THENCE NORTH 63°31'08" WEST 375.56 FEET;  
 THENCE NORTH 88°44'06" WEST, PARALLEL TO THE NORTH LINE OF SAID SECTION 7, A DISTANCE OF 1,088.13 FEET TO THE EAST LINE OF MARTHA LAKE GARDEN TRACTS, AS RECORDED IN VOLUME 8 OF PLATS, PAGE 51;  
 THENCE NORTH 0°08'44" EAST, ALONG SAID EAST LINE, 600.11 FEET TO THE NORTH LINE OF SAID SECTION 7;  
 THENCE SOUTH 88°44'06" EAST, ALONG SAID NORTH LINE, 1,307.68 FEET TO THE POINT OF BEGINNING.

**OWNER/DEVELOPER:**  
 WILLIAM BUCHAN, INC.  
 11555 NORTHUP WAY  
 BELLEVUE, WASHINGTON 98004  
 (206) 828-6424

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

**PLANNER/CONTACT PERSON:**  
 DON MILLER  
 G.W.C. LAND DEVELOPMENT CONSULTING  
 8888 45TH PL W.  
 MUKILTEO, WA. 98275  
 (206) 347-4627 & (206) 828-9881

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

**TABLE OF CONTENTS:**

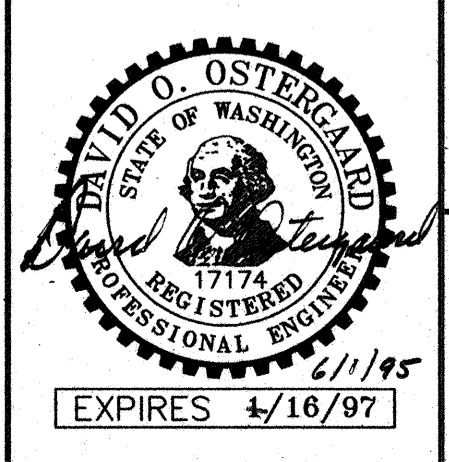
|                          | SHEET |
|--------------------------|-------|
| COVER SHEET:             | 1/11  |
| ROAD & STORM DRAINAGE:   |       |
| PLAN                     | 2/11  |
| PROFILE                  | 3/11  |
| PROFILE                  | 4/11  |
| PROFILE                  | 5/11  |
| VAULT DETAILS            | 6/11  |
| WEIR POND(S) DETAILS     | 7/11  |
| NOTES & DETAILS          | 8/11  |
| PLAN & PROFILE - OFFSITE | 9/11  |
| GRADING & TESCP:         |       |
| PLAN                     | 10/11 |
| NOTES & DETAILS          | 11/11 |

CITY OF MILL CREEK  
 APPROVED FOR CONSTRUCTION  
 BY *[Signature]* 29 June 95

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/26/95 |
|     |                        |         |
|     |                        |         |
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|         |         |           |    |
|---------|---------|-----------|----|
| Sheet   | 1 of 11 | Designed  |    |
|         |         | Drawn     | ME |
|         |         | Submitted |    |
|         |         | Approved  |    |
| Job No. | 94145   |           |    |

**G.W.C.**  
 Land Development Consulting  
 8888 45th Pl. W.  
 Mukilteo, Wa. 98275  
 347-4627 & 828-9881



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

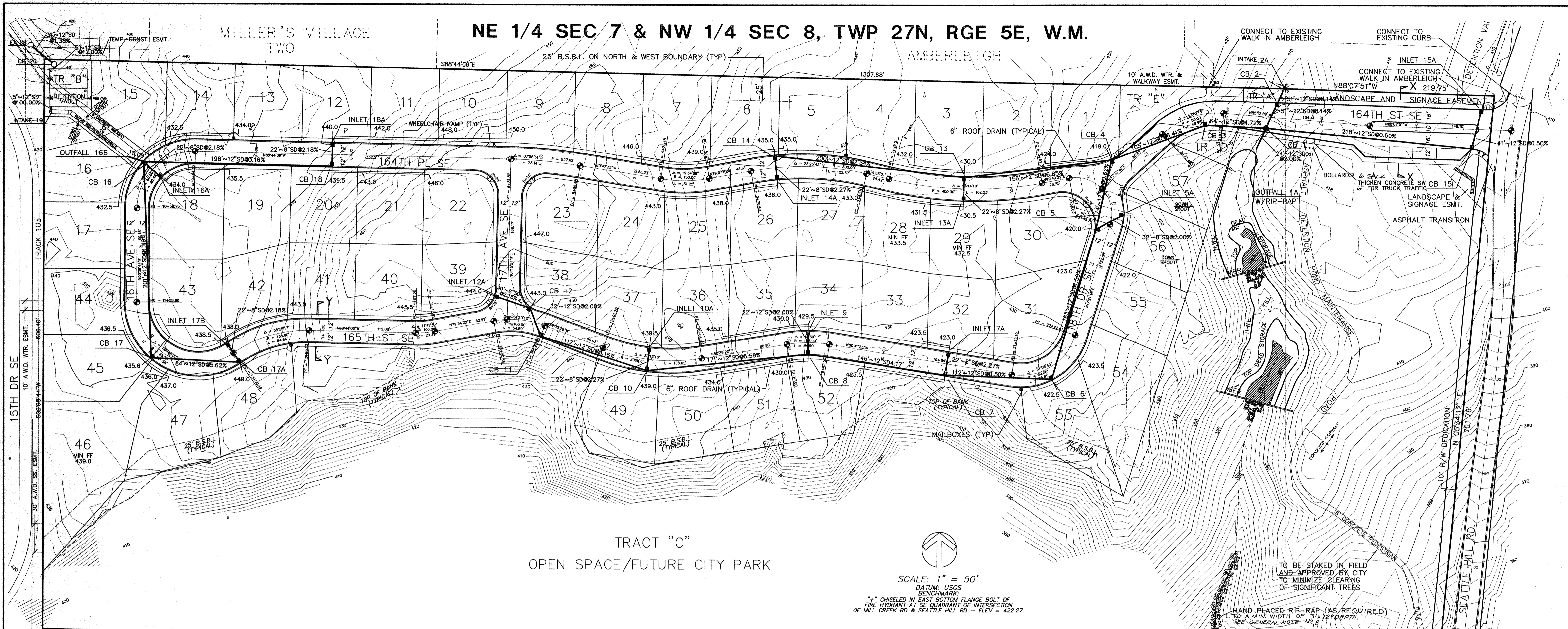
**WINSLOW COVER SHEET**  
 CITY OF MILL CREEK WASHINGTON

HDEV-473

MILLER'S VILLAGE TWO

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.

AMBERLEIGH



SCALE: 1" = 50'  
 DATUM: USGS BENCHMARK  
 \* \* \* CHISELED W/ EAST BOTTOM FLANGE BOLT OF FIRE HYDRANT AT SE QUADRANT OF INTERSECTION OF MILL CREEK RD & SEATTLE HILL RD - ELEV = 422.27

STORM DRAIN TABLE

| STRUCTURE   | STA   | OFFSET | TOP    | INVERT | PIPE | NOTES  |
|-------------|-------|--------|--------|--------|------|--|
| OUTFALL 1A  | 2+66  | 35'LT  | ---    | 403.63 | 12   | W/ RIP-RAP   |
| CB 1        | 2+59  | 12'LT  | 412.50 | 408.00 | 12   | TYPE II ~54" W/SOLID LOCKING LID & OIL/WATER SEPARATOR |
| INTAKE 2A   | 2+43  | 31'RT  | ---    | 412.40 | 12   | W/TRASH SCREEN   |
| CB 2        | 2+48  | 15'RT  | 412.29 | 410.00 | 12   | TYPE II ~54" W/SOLID LOCKING LID & OIL/WATER SEPARATOR |
| CB 3        | 3+25  | 12'RT  | 415.51 | 411.50 | 12   |  |
| CB 4        | 4+32  | 16'RT  | 423.56 | 418.68 | 12   |  |
| CB 5        | 23+36 | 11'LT  | 423.14 | 419.47 | 8    | W/THRU CURB INLET                                      |
| INLET 5A    | 23+56 | 11'RT  | 423.14 | 420.11 | 8    |  |
| CB 6        | 21+75 | 11'LT  | 428.56 | 421.81 | 12   | TYPE II ~48" W/SOLID LOCKING LID & OIL/WATER SEPARATOR |
| CB 7        | 20+68 | 11'LT  | 426.37 | 422.70 | 8    | W/THRU CURB INLET                                      |
| INLET 7A    | 20+68 | 11'RT  | 426.37 | 423.20 | 8    | W/THRU CURB INLET                                      |
| CB 8        | 19+20 | 11'LT  | 432.46 | 428.79 | 8    |  |
| INLET 9     | 19+20 | 11'RT  | 432.46 | 429.23 | 8    |  |
| CB 10       | 17+50 | 11'RT  | 442.34 | 438.34 | 8    |  |
| INLET 10A   | 17+50 | 11'LT  | 442.34 | 438.84 | 8    |  |
| CB 11       | 16+35 | 11'LT  | 446.63 | 441.71 | 12   |  |
| CB 12       | 16+16 | 11'LT  | 447.29 | 442.68 | 8    |  |
| INLET 12A   | 1+40  | 11'RT  | 447.40 | 443.52 | 8    | W/THRU CURB INLET                                      |
| CB 13       | 1+50  | 11'RT  | 443.37 | 429.70 | 8    |  |
| INLET 13A   | 1+50  | 11'LT  | 443.37 | 430.20 | 8    |  |
| CB 14       | 3+50  | 11'RT  | 438.44 | 434.77 | 8    |  |
| INLET 14A   | 3+50  | 11'LT  | 438.44 | 435.27 | 8    |  |
| CB 15       | 0+41  | 20'LT  | 408.26 | 405.04 | 12   | W/THRU CURB INLET                                      |
| INLET 15A   | 0+32  | 20'RT  | 408.26 | 405.25 | 12   | W/THRU CURB INLET                                      |
| OUTFALL 16B | 10+17 | 22'RT  | ---    | 431.11 | 12   | W/ RIP-RAP   |
| CB 16       | 10+15 | 11'RT  | 435.50 | 432.88 | 8    | W/THRU CURB INLET                                      |
| INLET 16A   | 10+15 | 11'LT  | 435.50 | 433.36 | 8    | W/THRU CURB INLET                                      |
| CB 17       | 12+16 | 11'RT  | 440.44 | 435.54 | 12   |  |
| CB 17A      | 13+00 | 11'RT  | 444.24 | 440.59 | 8    |  |
| INLET 17B   | 13+00 | 11'LT  | 444.24 | 441.07 | 8    |  |
| CB 18       | 8+20  | 11'RT  | 443.71 | 439.14 | 8    |  |
| INLET 18A   | 8+20  | 11'LT  | 443.71 | 439.62 | 8    |  |
| INTAKE 19   | ---   | ---    | ---    | 423.00 | 12   | W/TRASH SCREEN   |
| CB 20       | ---   | ---    | ---    | 422.00 | 12   | TYPE II ~72" W/SOLID LOCKING LID & OIL/WATER SEPARATOR |

PLAT OF THE LAKES

| CURVE | RADIUS | LENGTH | DELTA     |
|-------|--------|--------|-----------|
| C1    | 38.00' | 38.02' | 57°19'51" |
| C2    | 38.00' | 39.93' | 60°12'36" |

*Mailbox locations approved 5-9-95*  
*Burns & Bostick PO*

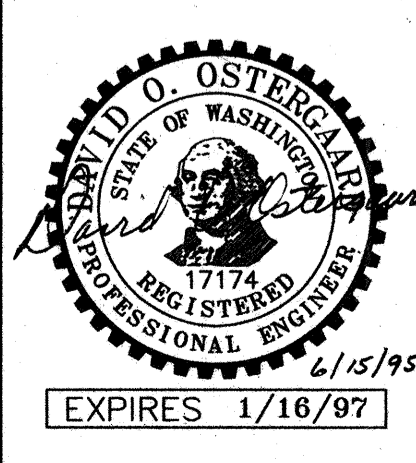
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 OSTERGAARD & ROBINSON ASSOC.

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/30/95 |
| 3   | PER CITY REVIEW        | 6/9/95  |
| 4   | PER CITY REVIEW        | 6/22/95 |

Sheet 2 of 11  
 Job No. 94145

Designed \_\_\_\_\_  
 Drawn ME  
 Submitted \_\_\_\_\_  
 Approved \_\_\_\_\_

**G.W.C.**  
 Land Development Consulting  
 8888 45th Pl. W.  
 Mukilteo, Wa. 98275  
 347-4627 & 828-9881



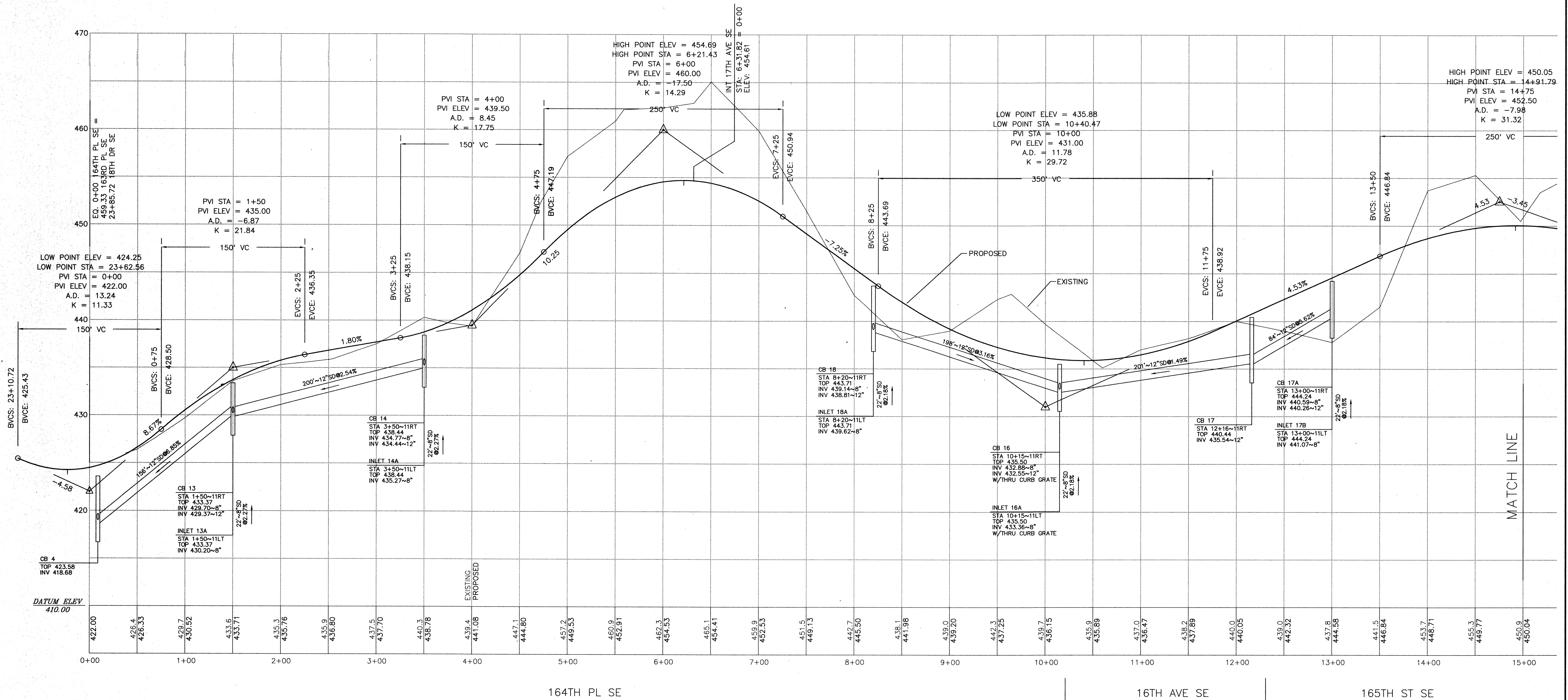
CITY OF MILL CREEK  
 APPROVED FOR CONSTRUCTION  
 BY *[Signature]* 29 June 95

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

**WINSLOW**  
 ROAD + STORM DRAINAGE PLAN  
 CITY OF MILL CREEK WASHINGTON

HDEV-474

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



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

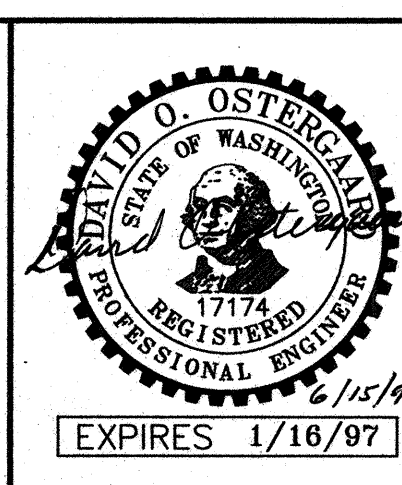
CITY OF MILL CREEK  
 APPROVED FOR CONSTRUCTION  
 BY *[Signature]* 27 June 95

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/30/95 |
| 3   | PER CITY REVIEW        | 6/9/95  |
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| Sheet   | 3 of 11 | Designed  | ME |
| Job No. | 94145   | Drawn     | ME |
|         |         | Submitted |    |
|         |         | Approved  |    |

**G.W.C.**  
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 8888 45th Pl. W.  
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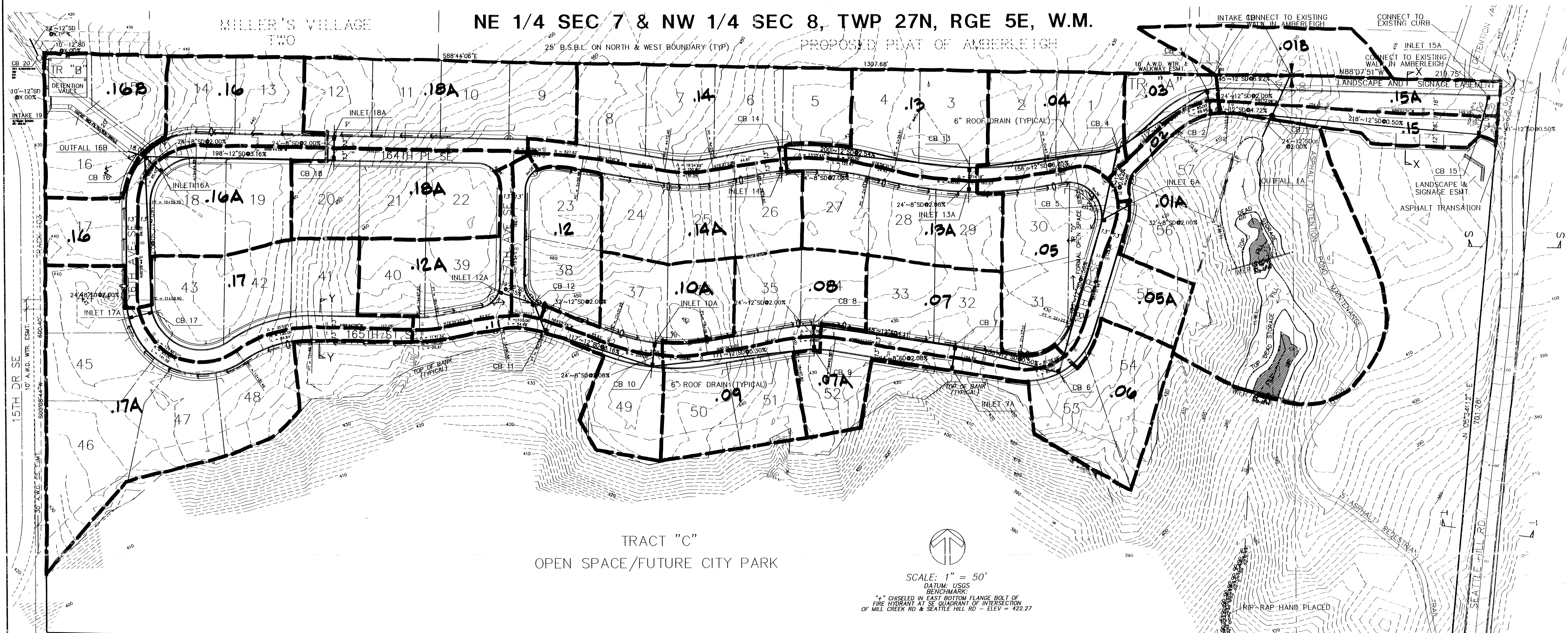
**WINSLOW**  
 ROAD + STORM DRAINAGE  
 PROFILE  
 CITY OF MILL CREEK WASHINGTON

HDEV-475

MILLER'S VILLAGE TWO

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.

PROPOSED PLAT OF AMBERLEIGH



TRACT "C"  
OPEN SPACE/FUTURE CITY PARK

SCALE: 1" = 50'

DATUM: USGS BENCHMARK  
\*\* CHISELED IN EAST BOTTOM FLANGE BOLT OF FIRE HYDRANT AT SE QUADRANT OF INTERSECTION OF MILL CREEK RD & SEATTLE HILL RD - ELEV = 422.27

S 88°44'06" E  
1088.13'

PROPOSED PLAT OF THE LAKES

STORM DRAIN TABLE

| STRUCTURE   | STA   | OFFSET | TOP    | INVERT | PIPE | NOTES  |
|-------------|-------|--------|--------|--------|------|--|
| OUTFALL 1A  | 2+66  | 35'LT  | ---    | 403.63 | 12   | W/RIP-RAP  |
| CB 1        | 2+59  | 12'LT  | 412.50 | 408.00 | 12   | TYPE II ~54" W/SOLID LOCKING LID & OIL/WATER SEPERATOR |
| INTAKE 1B   | 2+42  | 31'RT  | ---    | 407.00 | 12   | W/TRASH SCREEN   |
| CB 2        | 3+25  | 12'LT  | 415.51 | 411.02 | 12   |  |
| CB 3        | 3+25  | 12'RT  | 415.51 | 411.50 | 12   |  |
| CB 4        | 4+32  | 16'RT  | 423.56 | 418.68 | 12   |  |
| CB 5        | 23+36 | 12'LT  | 423.14 | 419.47 | 8    | W/THRU CURB INLET                                      |
|             |       |        |        | 419.14 | 12   |  |
| INLET 5A    | 23+56 | 12'RT  | 423.14 | 420.11 | 8    |  |
| CB 6        | 21+75 | 12'LT  | 428.56 | 421.83 | 12   | TYPE II~48" W/THRU CURB INLET                          |
| CB 7        | 20+68 | 12'LT  | 426.37 | 422.70 | 8    | W/THRU CURB INLET                                      |
|             |       |        |        | 422.37 | 12   |  |
| INLET 7A    | 20+68 | 12'RT  | 426.37 | 423.20 | 8    | W/THRU CURB INLET                                      |
| CB 8        | 19+20 | 12'LT  | 432.46 | 428.46 | 12   |  |
| CB 9        | 19+20 | 12'RT  | 432.46 | 432.46 | 12   |  |
| CB 10       | 17+50 | 12'RT  | 442.34 | 438.34 | 8    |  |
|             |       |        |        | 438.01 | 12   |  |
| INLET 10A   | 17+50 | 12'LT  | 442.34 | 438.84 | 8    |  |
| CB 11       | 16+35 | 12'LT  | 446.63 | 441.71 | 12   |  |
| CB 12       | 16+16 | 12'LT  | 447.29 | 442.68 | 8    |  |
|             |       |        |        | 442.35 | 12   |  |
| INLET 12A   | 1+40  | 12'RT  | 447.40 | 443.52 | 8    | W/THRU CURB INLET                                      |
| CB 13       | 1+50  | 12'RT  | 443.37 | 429.70 | 8    |  |
|             |       |        |        | 429.37 | 12   |  |
| INLET 13A   | 1+50  | 12'LT  | 443.37 | 430.20 | 8    |  |
| CB 14       | 3+50  | 12'RT  | 438.44 | 434.77 | 8    |  |
|             |       |        |        | 434.44 | 12   |  |
| INLET 14A   | 3+50  | 12'LT  | 438.44 | 435.27 | 8    |  |
| CB 15       | 0+41  | 20'LT  | 408.26 | 405.04 | 12   | W/THRU CURB INLET                                      |
| INLET 15A   | 0+32  | 20'RT  | 408.26 | 405.25 | 12   | W/THRU CURB INLET                                      |
| OUTFALL 16B | 10+17 | 22'RT  | ---    | 431.11 | 12   | W/TRASH SCREEN   |
| CB 16       | 10+15 | 12'RT  | 435.50 | 432.88 | 8    | W/THRU CURB INLET                                      |
|             |       |        |        | 432.55 | 12   |  |
| INLET 16A   | 10+15 | 12'LT  | 435.50 | 433.36 | 8    | W/THRU CURB INLET                                      |
| CB 17       | 11+75 | 12'RT  | 438.58 | 434.01 | 8    |  |
|             |       |        |        | 433.68 | 12   |  |
| INLET 17A   | 11+75 | 12'LT  | 438.58 | 434.49 | 8    |  |
| CB 18       | 8+20  | 12'RT  | 443.71 | 439.14 | 8    |  |
|             |       |        |        | 438.81 | 12   |  |
| INLET 18A   | 8+20  | 12'LT  | 443.71 | 439.62 | 8    |  |
| INTAKE 19   | ---   | ---    | ---    | 423.00 | 12   | W/TRASH SCREEN   |
| CB 20       | ---   | ---    | ---    | 421.00 | 12   | TYPE II~72" W/THRU CURB INLET                          |

| CURVE | RADIUS | LENGTH | DELTA     |
|-------|--------|--------|-----------|
| C1    | 38.00' | 38.02' | 57°19'51" |
| C2    | 38.00' | 39.93' | 60°12'36" |

City of Mill Creek  
Dwgs : Engineer  
Information  
DO NOT LOSE  
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POST DEVELOPED DRAINAGE BASINS

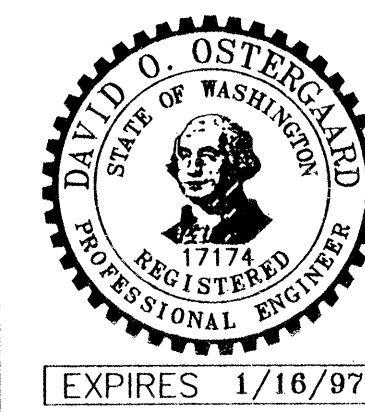
CITY OF MILL CREEK  
APPROVED FOR CONSTRUCTION  
BY \_\_\_\_\_

| NO. | REVISION | DATE |
|-----|----------|------|
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|     |          |      |
|     |          |      |

Sheet 2 of 11  
Job No. 94145

Designed \_\_\_\_\_  
Drawn ME  
Submitted \_\_\_\_\_  
Approved \_\_\_\_\_

**G.W.C.**  
Land Development Consulting  
8888 45th Pl. W.  
Mukilteo, Wa. 98275  
347-4627 & 828-9881

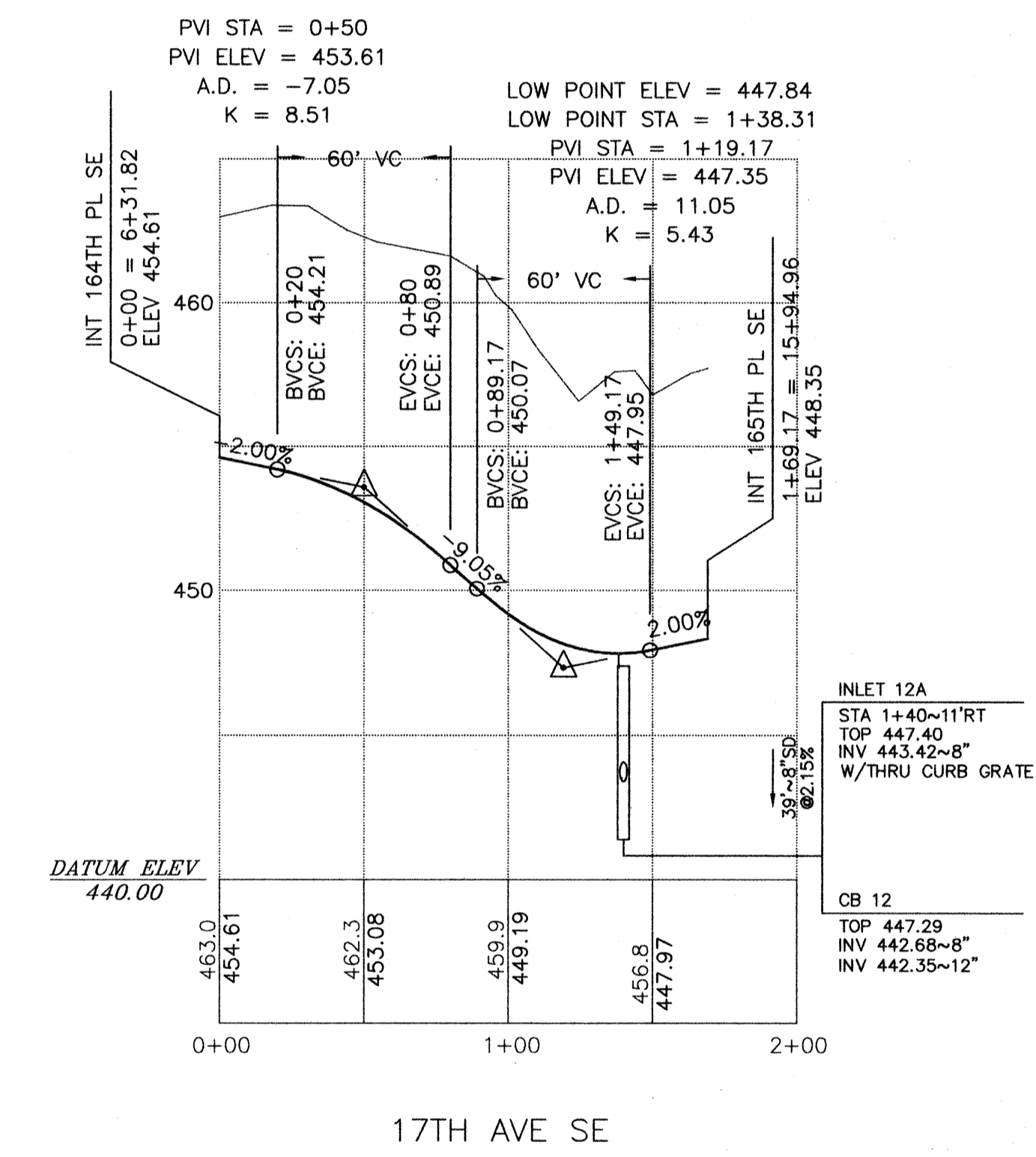
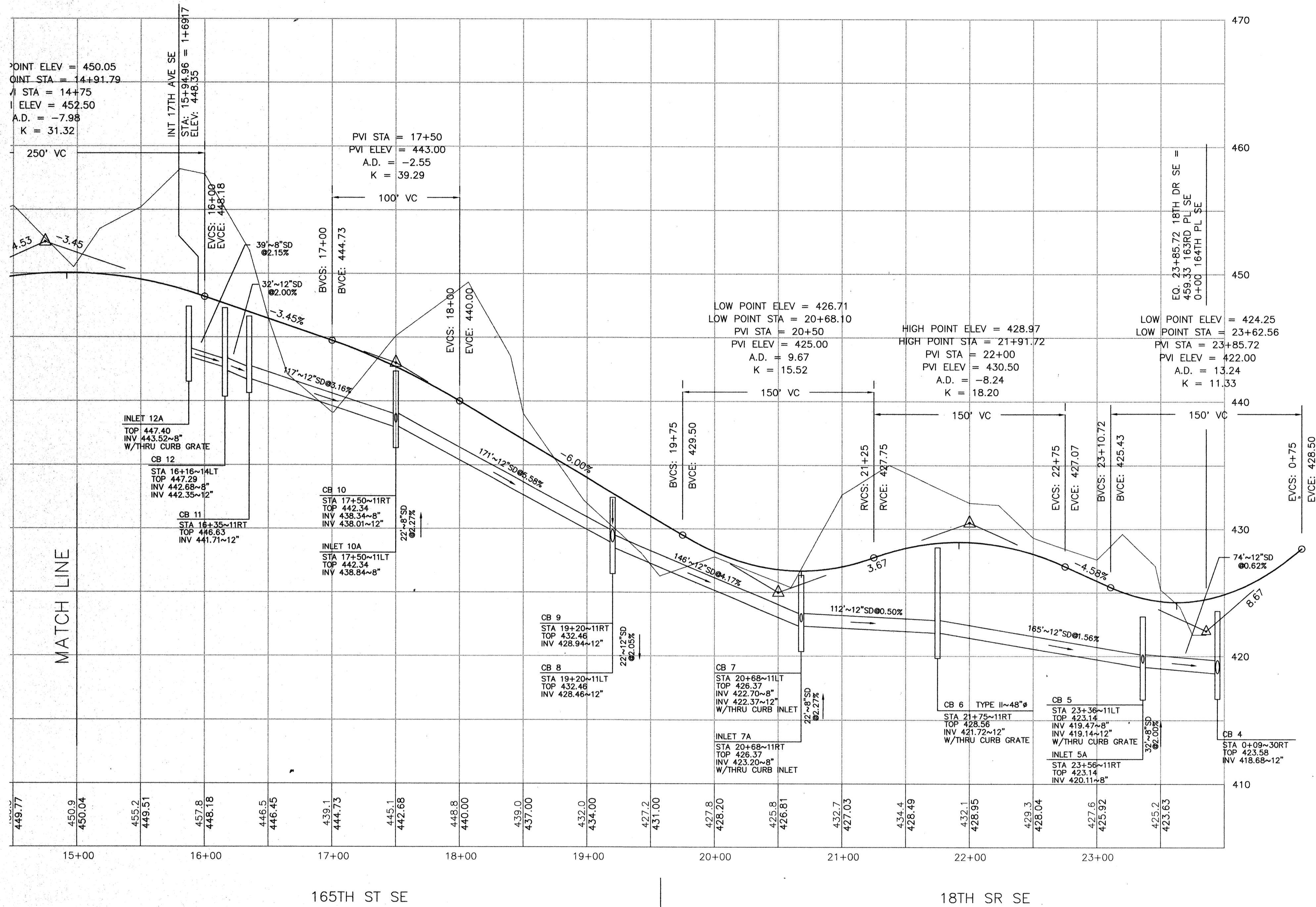


**OSTERGAARD • ROBINSON**  
& ASSOC. INC. CONSULTING ENGINEERS  
3630 COLBY AVE. BELLEVUE, WA 98001  
(206) 259-6445 BELLEVUE: (206) 897-5854

**WINSLOW**  
ROAD + STORM DRAINAGE PLAN  
CITY OF MILL CREEK WASHINGTON

HDEV - 489

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



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

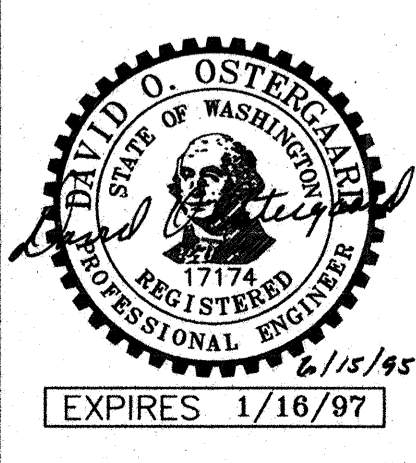
CITY OF MILL CREEK  
 APPROVED FOR CONSTRUCTION  
 BY *[Signature]* 27 June 95

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/30/95 |
| 3   | PER CITY REVIEW        | 6/15/95 |

|         |         |           |    |
|---------|---------|-----------|----|
| Sheet   | 4 of 11 | Designed  |    |
|         |         | Drawn     | ME |
|         |         | Submitted |    |
| Job No. | 94145   | Approved  |    |

**G.W.C.**  
 Land Development Consulting  
 8888 45th Pl. W.  
 Mukilteo, Wa. 98275  
 347-4627 & 828-9881

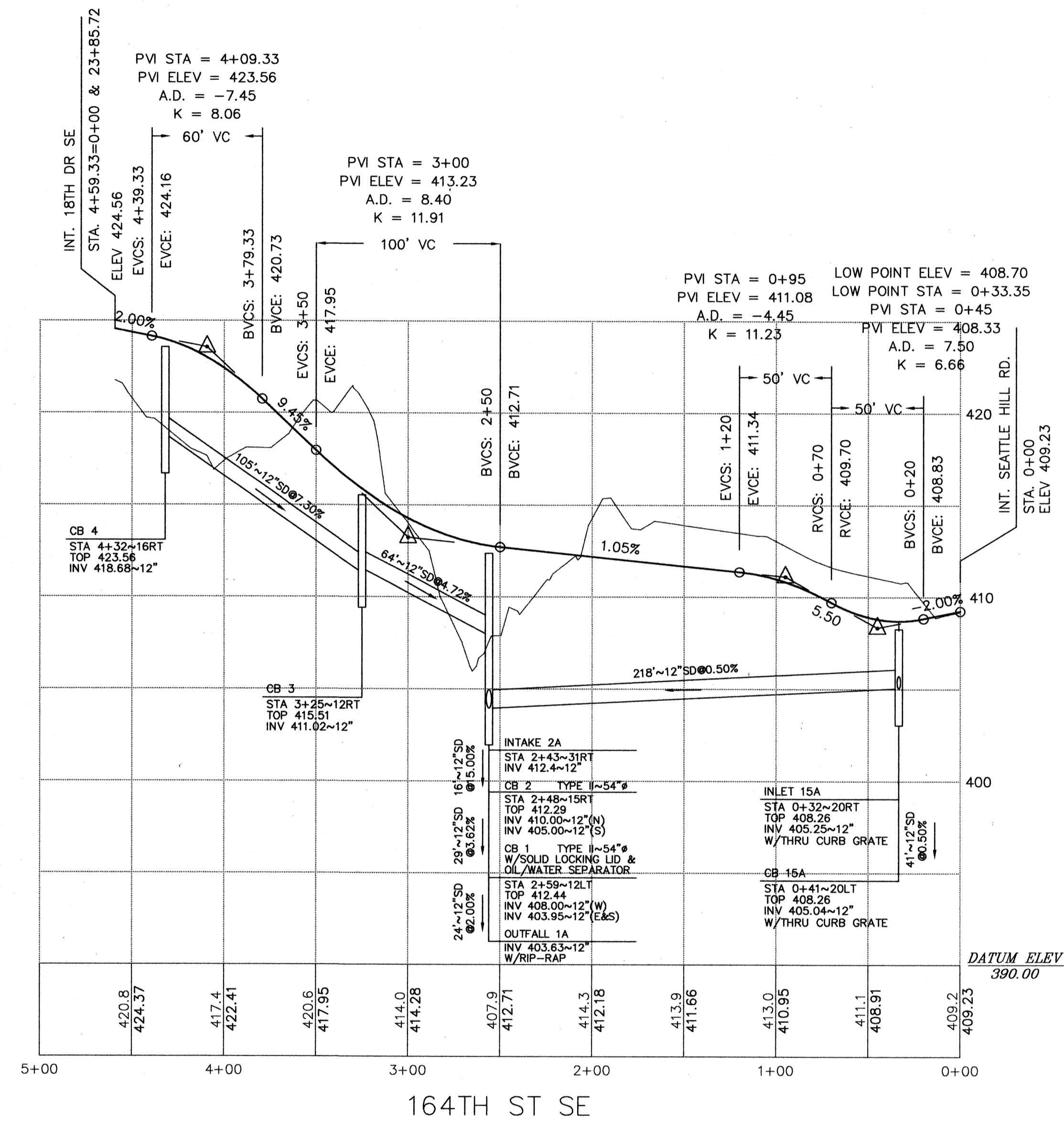


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 & ASSOC. INC. CONSULTING ENGINEERS  
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**WINSLOW**  
 ROAD + STORM DRAINAGE  
 PROFILE  
 CITY OF MILL CREEK WASHINGTON

HDEV-476

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



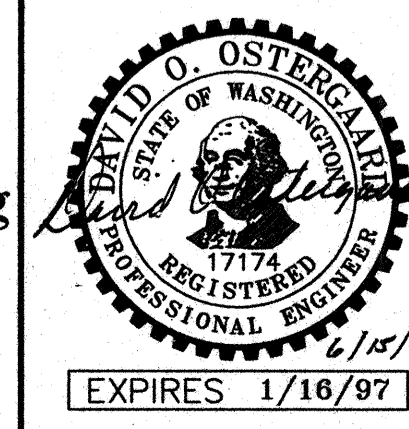
SCALE:  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

CITY OF MILL CREEK  
APPROVED FOR CONSTRUCTION  
BY *John S. [Signature]* 2/15/95

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/30/95 |
| 3   | PER CITY REVIEW        | 6/13/95 |

Sheet 5 of 11  
Job No. 94145  
Designed \_\_\_\_\_  
Drawn ME  
Submitted \_\_\_\_\_  
Approved \_\_\_\_\_

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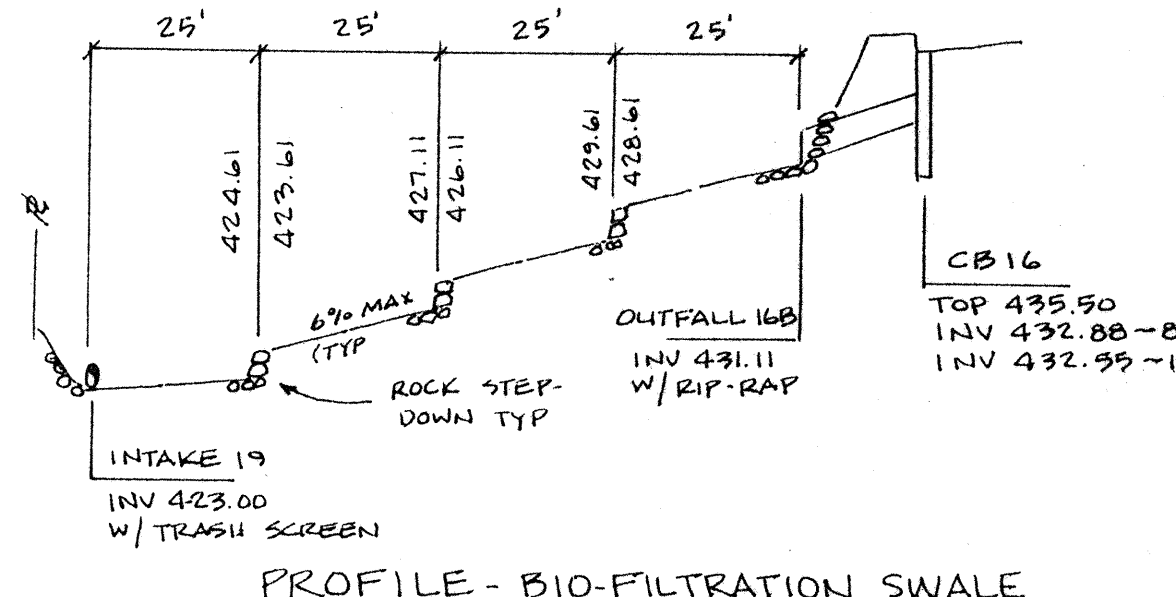
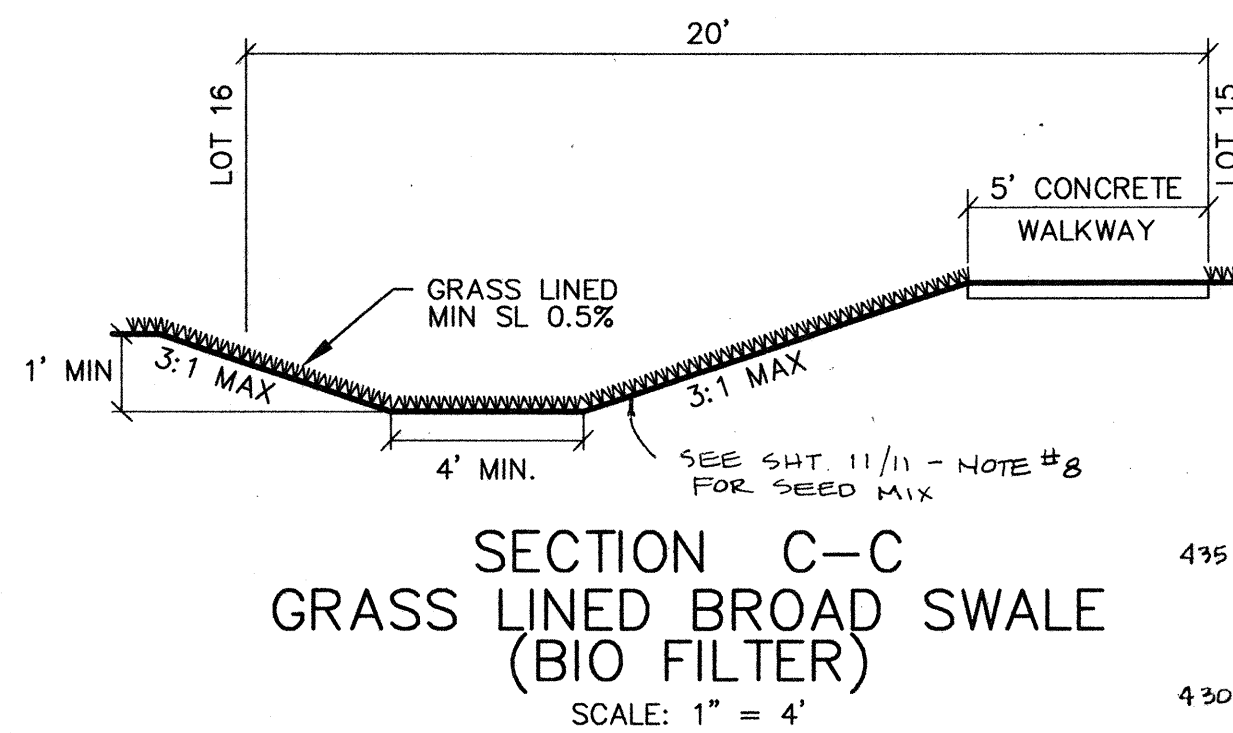
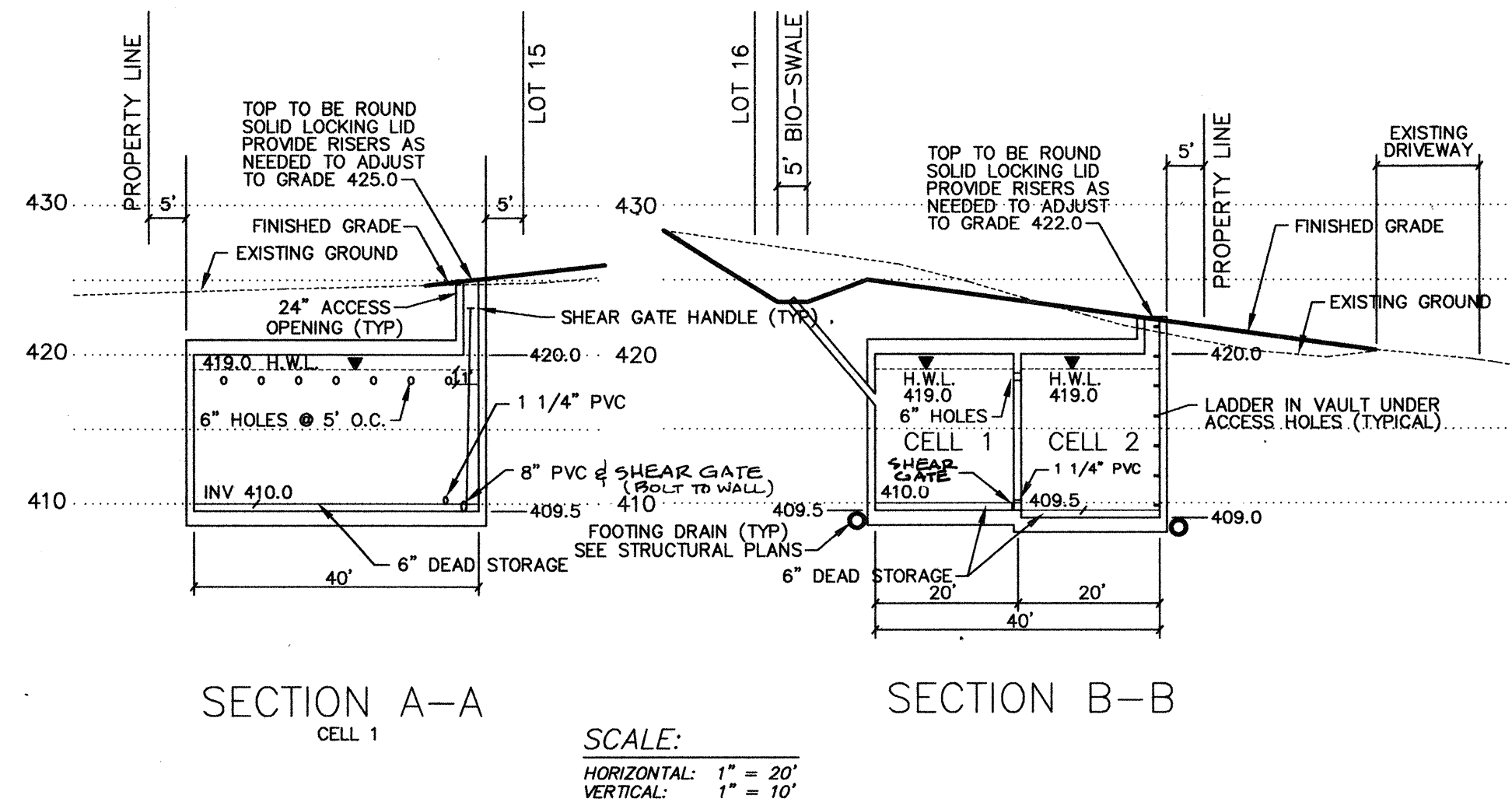
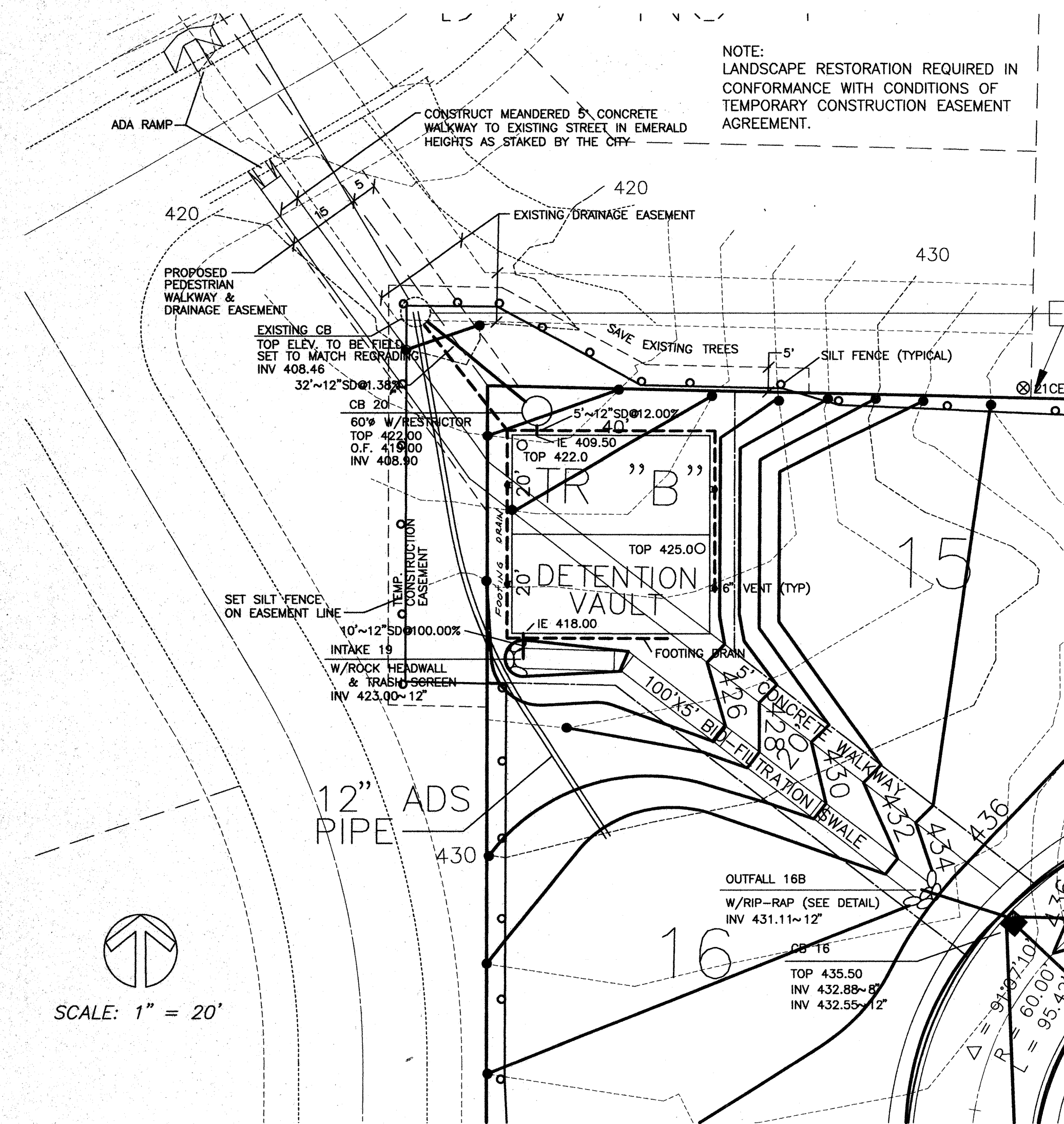


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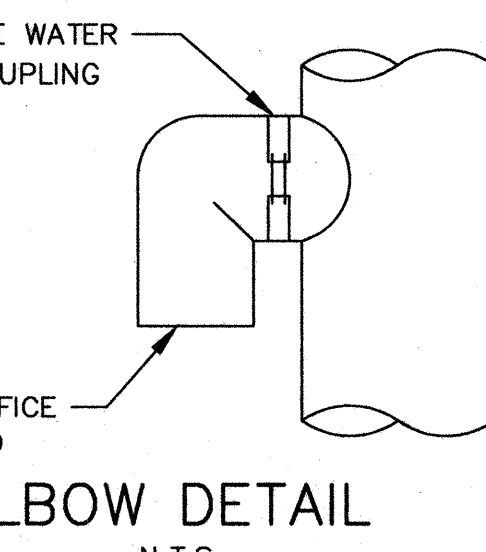
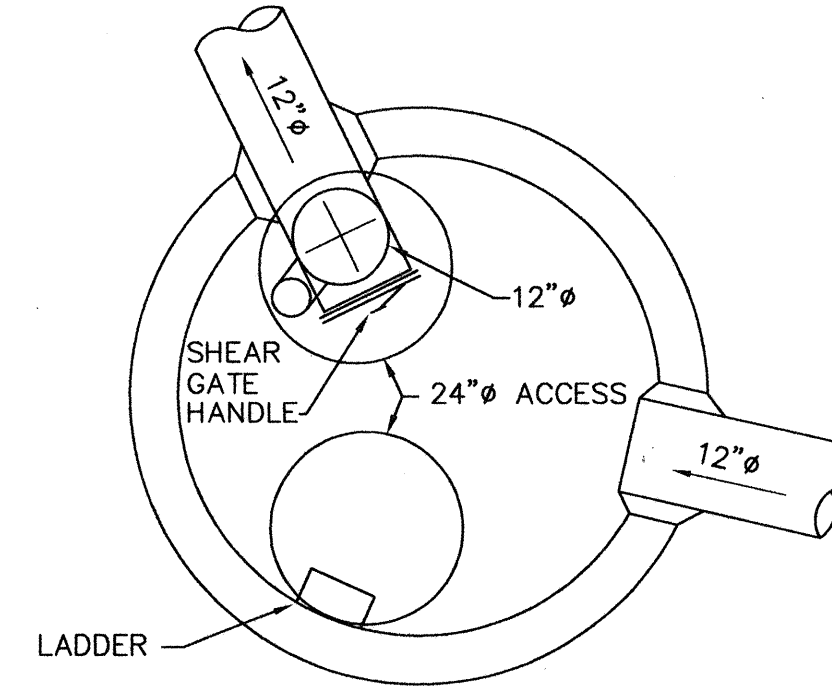
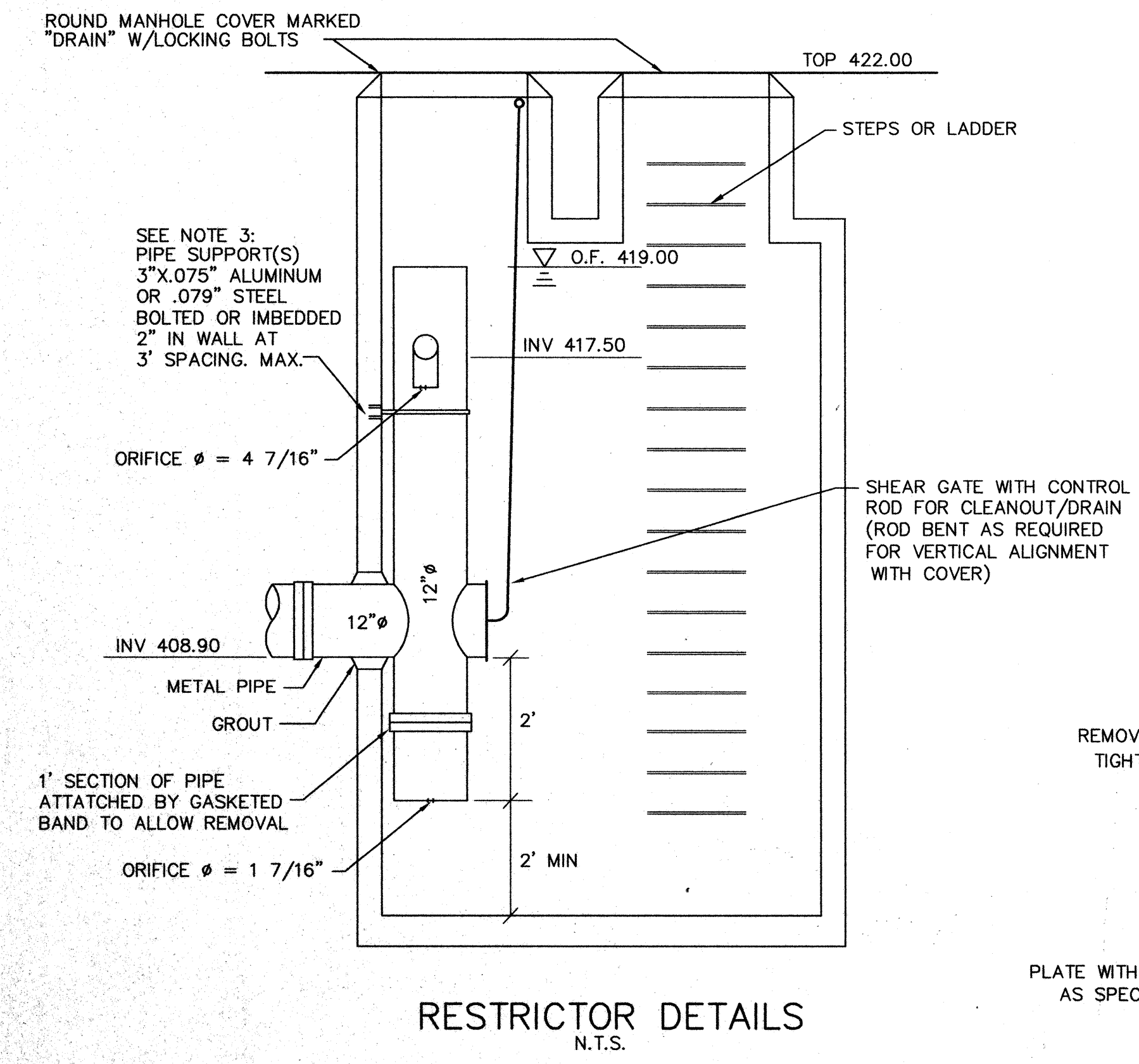
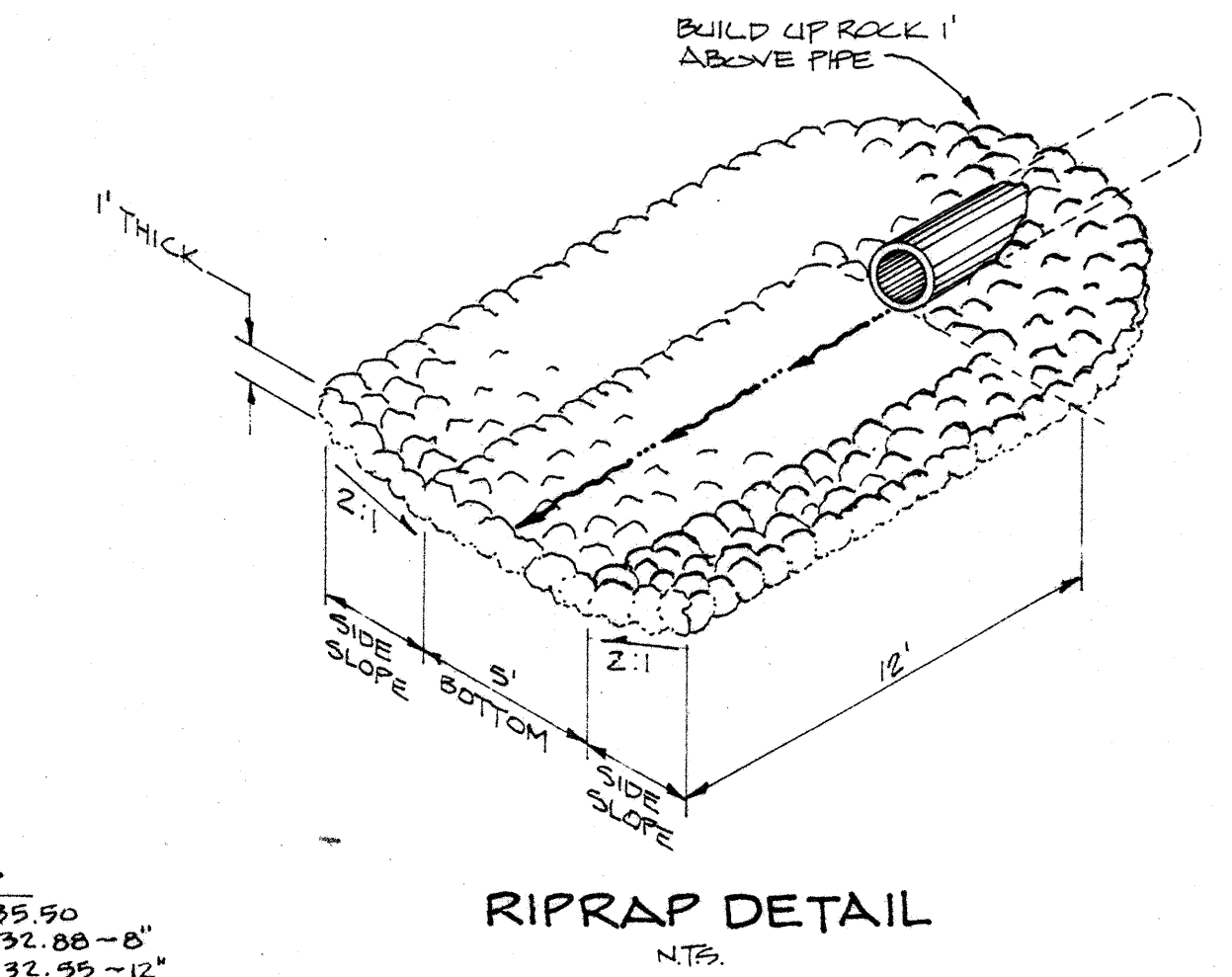
**WINSLOW**  
ROAD + STORM DRAINAGE  
PROFILE  
CITY OF MILL CREEK WASHINGTON

HDEV-477

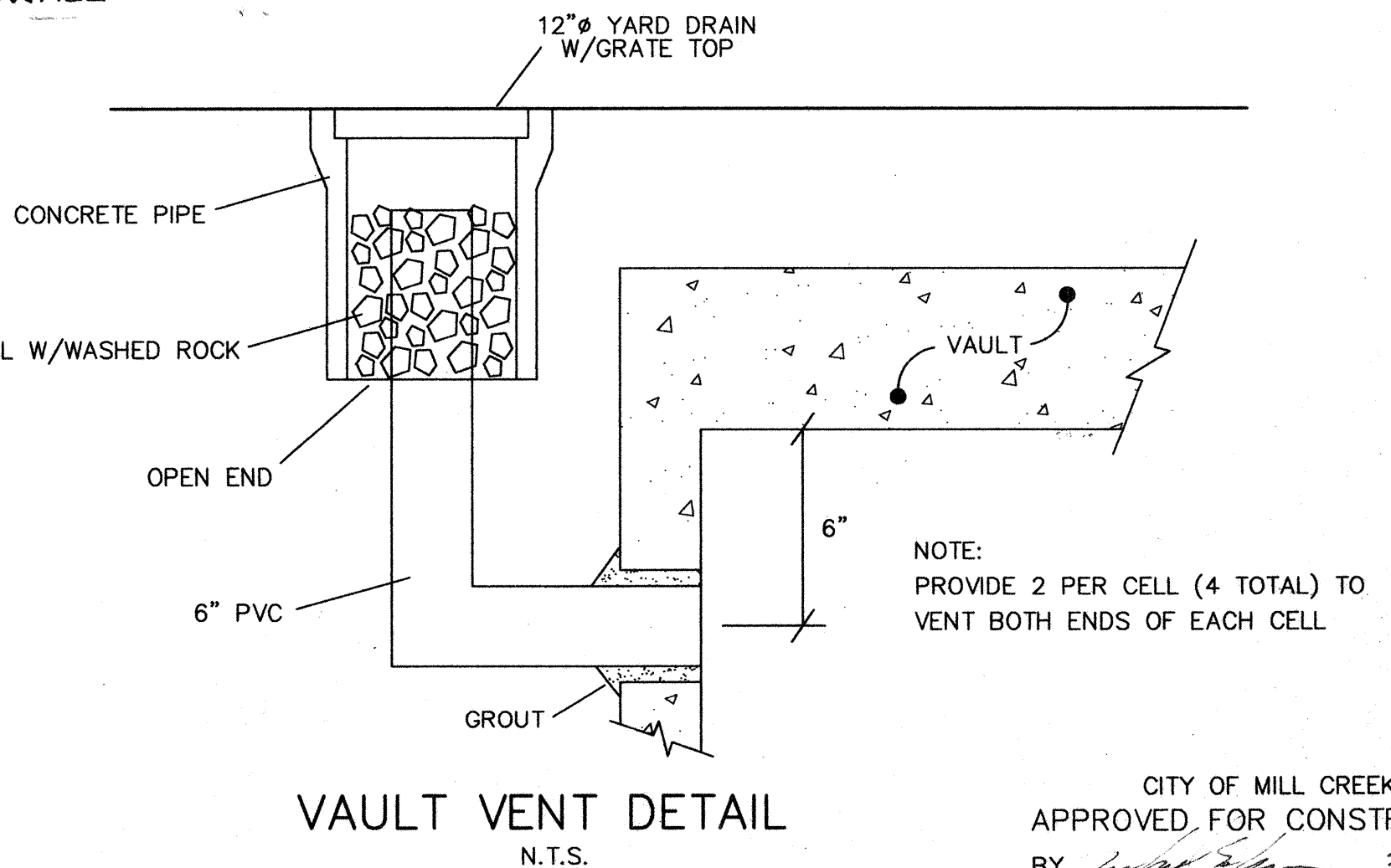
NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



8" Ø CLEANOUT/SHEAR GATE N.T.S.



- NOTES
1. THE RESTRICTOR/SEPARATOR AND PIPE SUPPORTS SHALL BE OF THE SAME MATERIAL AND SHALL BE FABRICATED FROM .060" ALUMINUM IN ACCORDANCE WITH AASHTO M 36, M 196, M 197 AND M 274.
  2. OUTLET SHALL BE CONNECTED TO CULVERT OR SEWER PIPE WITH A STANDARD COUPLING BAND FOR CORRUGATED METAL PIPE OR GROUDED INTO THE BELL OF CONCRETE PIPE.
  3. THE VERTICAL RISER STEM OF THE RESTRICTOR/SEPARATOR SHALL BE THE SAME DIAMETER AS THE HORIZONTAL OUTLET PIPE WITH A 8" MINIMUM SIZE.
  4. FRAME AND LADDER OR STEPS TO BE OFFSET SO THAT: A. CLEANOUT GATE IS VISIBLE FROM TOP. B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE. C. FRAME IS CLEAR OF CURB (IF ANY EXISTS).
  5. MULTI-ORIFICE ELBOWS MAY BE LOCATED AS SHOWN OR ALL ON ONE SIDE OF RISER TO ASSURE LADDER CLEARANCE. SIZE OF ELBOWS TO BE DETERMINED BY THE ENGINEER.
  6. RESTRICTOR PLATE WITH ORIFICE AS SPECIFIED IN THE PLANS. OMIT PLATE IF ONLY FOR ALL POLLUTION CONTROL. SPECIFIED OPENING TO BE CUT ROUND AND SMOOTH.
  7. CLEANOUT GATE/SHEAR GATE: ALUMINUM ALLOY PER ASTM B-26-ZG-32a OR CAST IRON ASTM A48 CLASS 308 AS REQUIRED. LIFT HANDLE SOLID ROD WITH ADJUSTABLE HOOK AS REQUIRED. NEOPRENE RUBBER GASKETS REQUIRED BETWEEN FLANGES.
  8. ALTERNATE CLEANOUT GATES/SHEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8" BOLT CIRCLE FOR BOLTING TO THE FLANGE CONNECTION.



| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/30/95 |
| 3   | PER CITY/CLIENT REVIEW | 6/12/95 |

Sheet 6 of 11

Job No. 94145

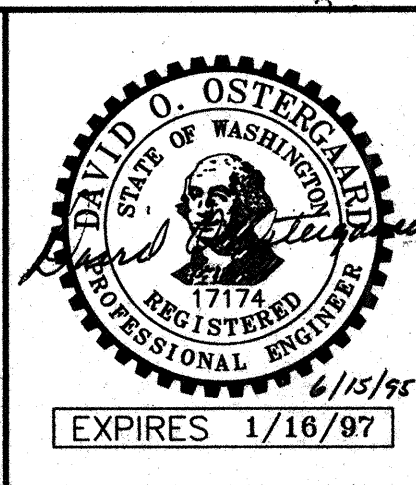
Designed \_\_\_\_\_

Drawn ME

Submitted \_\_\_\_\_

Approved \_\_\_\_\_

G.W.C.  
Land Development Consulting  
8888 45th Pl. W.  
Mukilteo, Wa. 98275  
347-4627 & 828-9881



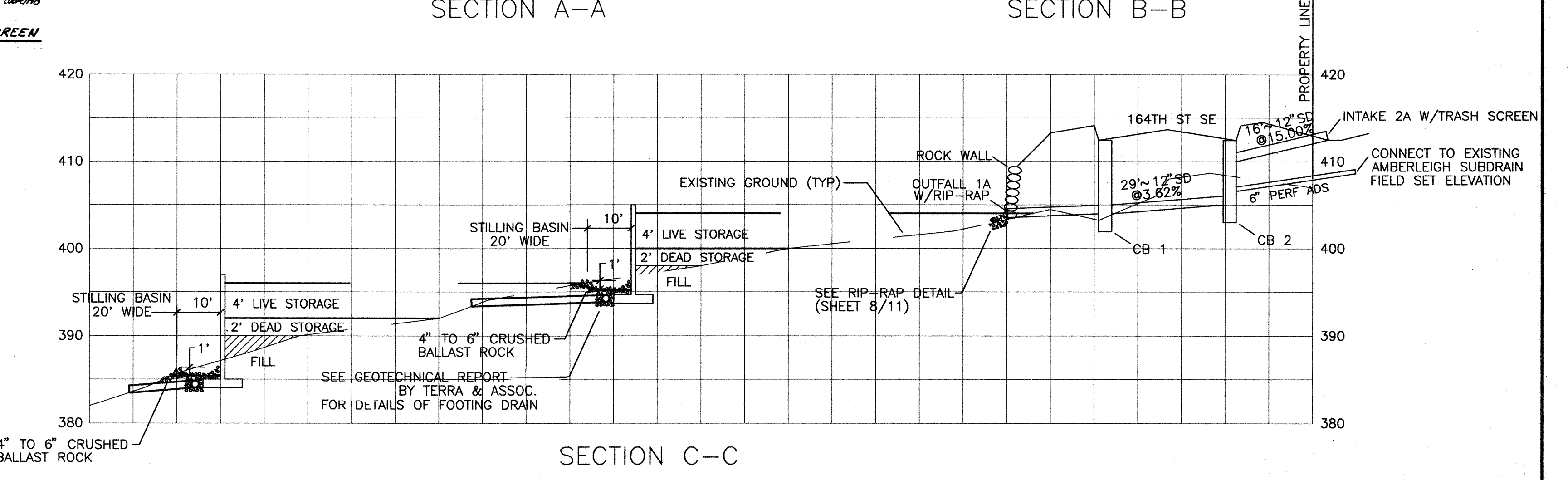
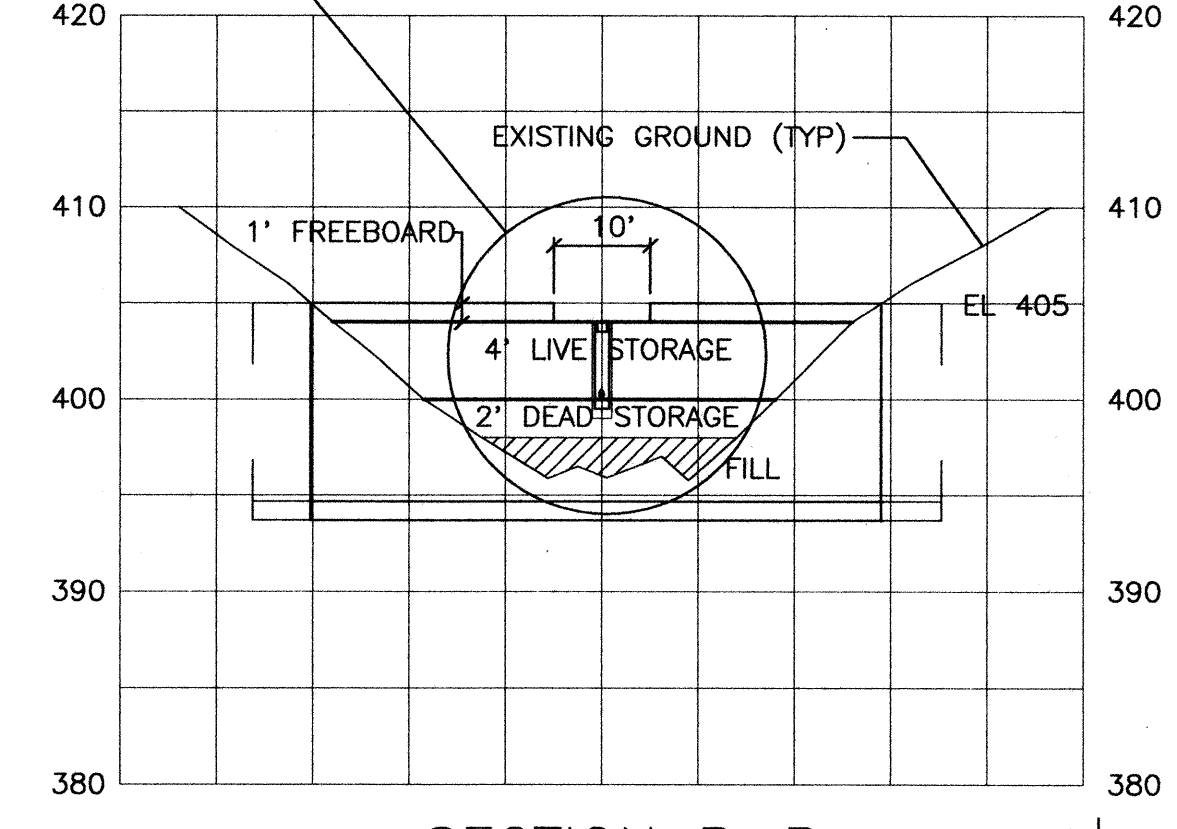
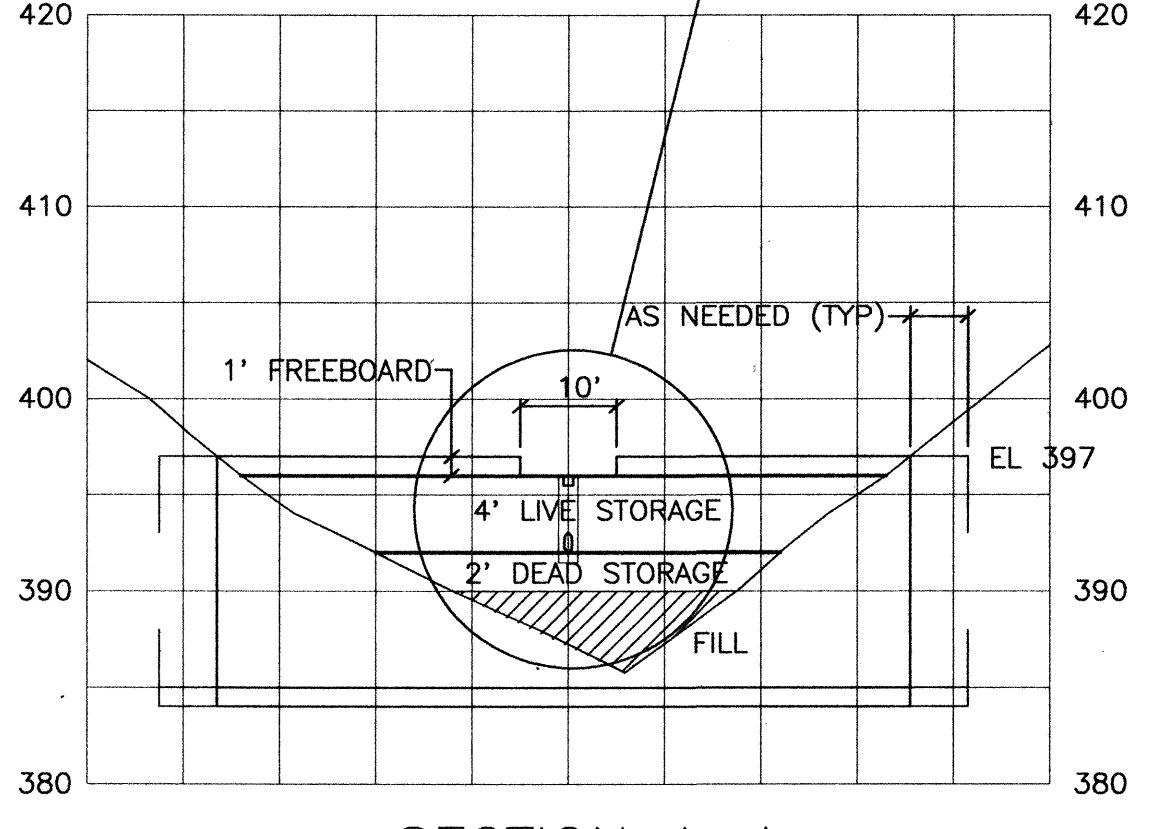
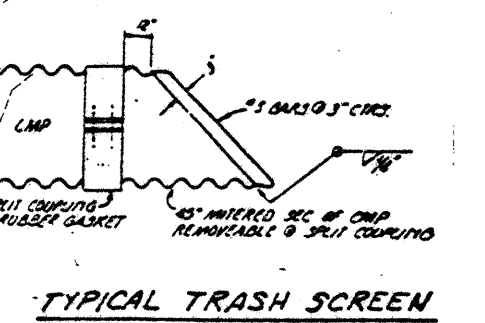
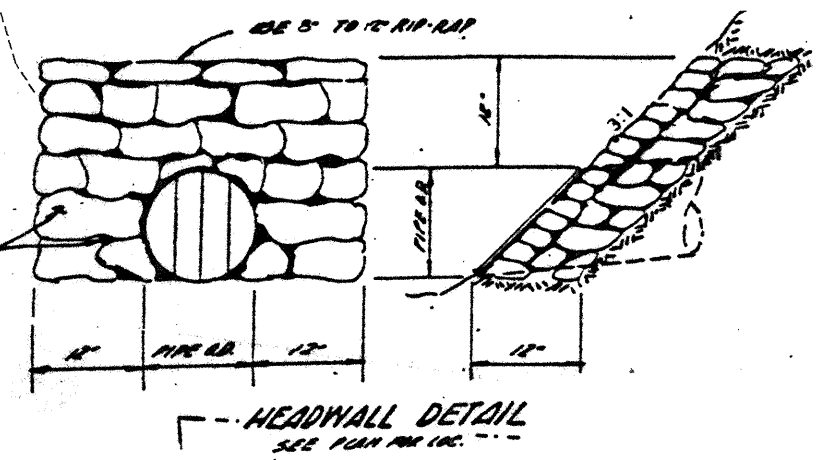
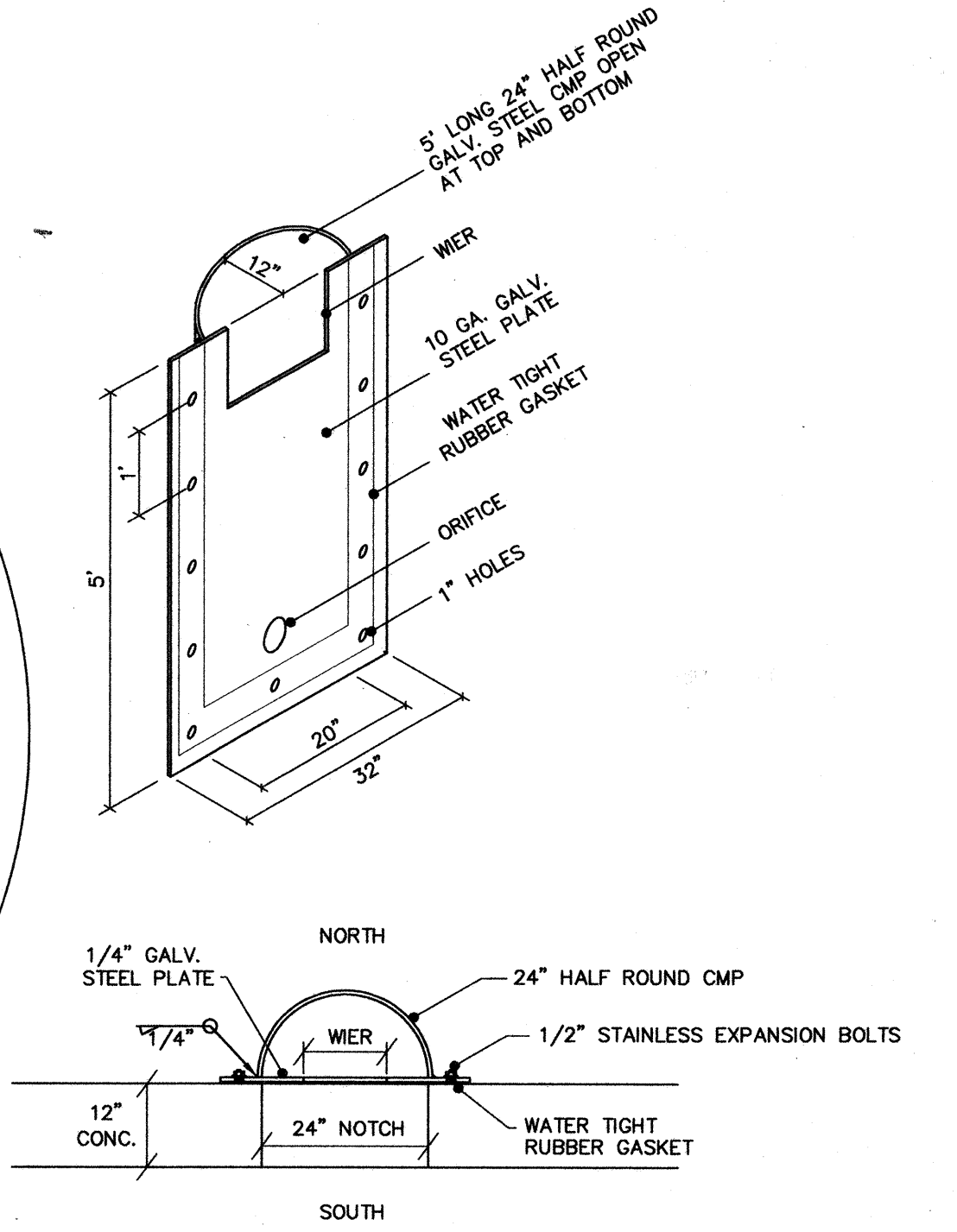
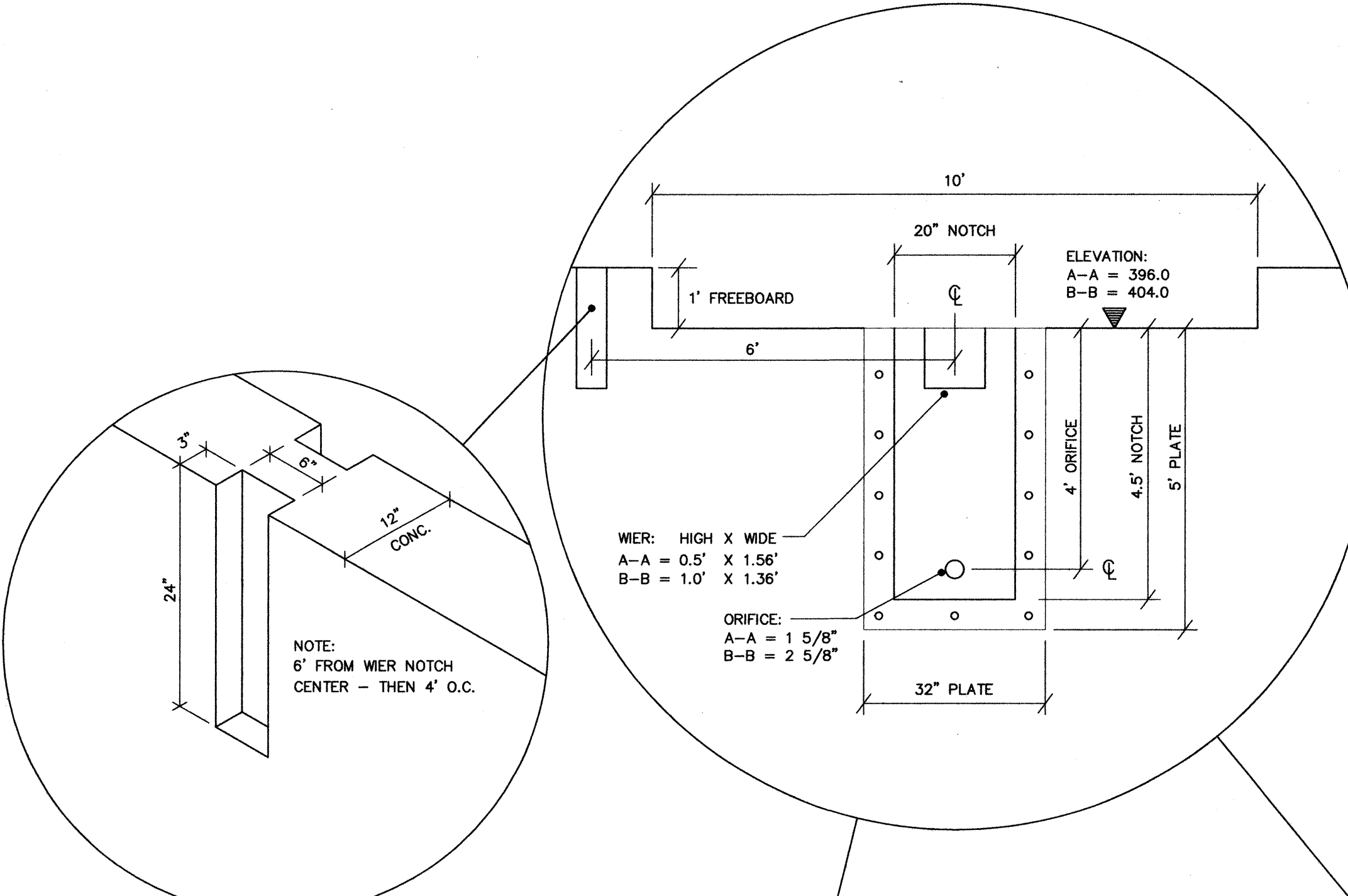
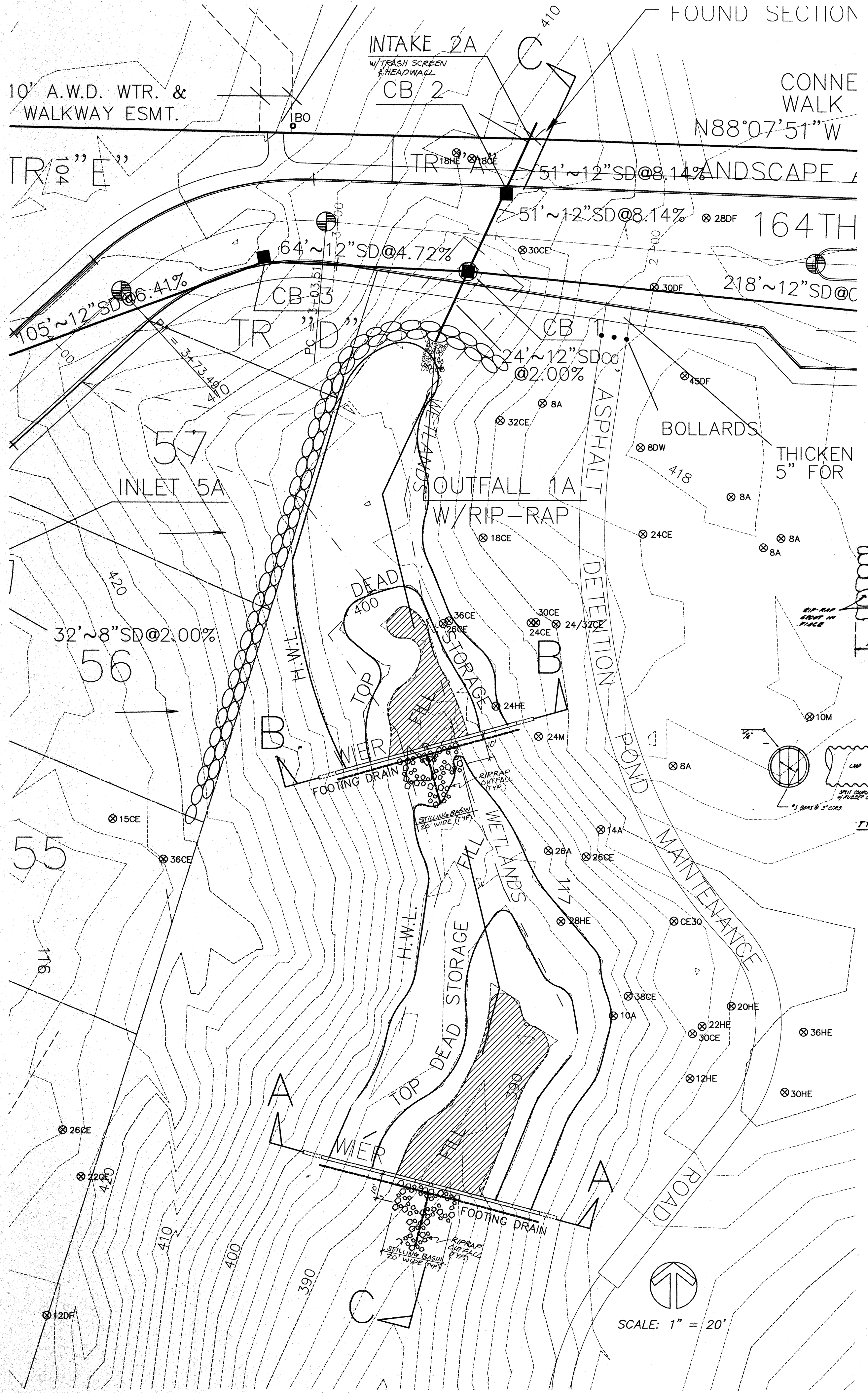
OSTERGAARD • ROBINSON & ASSOC. INC. CONSULTING ENGINEERS  
3630 COLBY AVE. EVERETT, WA 98201  
(206) 259-6445 BELLEVUE: (206) 827-5854

**WINSLOW**  
RETENTION/DETENTION  
CITY OF MILL CREEK WASHINGTON

CITY OF MILL CREEK APPROVED FOR CONSTRUCTION BY [Signature] 2/9/2008

HDEV - 478

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 10'

SCALE: 1" = 20'

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/31/95 |
| 3   | PER CITY REVIEW        | 6/13/95 |

|         |         |           |    |
|---------|---------|-----------|----|
| Sheet   | 7 of 11 | Designed  | ME |
| Job No. | 94145   | Submitted |    |
|         |         | Approved  |    |

**G.W.C.**  
Land Development Consulting  
8888 45th Pl. W.  
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CITY OF MILL CREEK  
APPROVED FOR CONSTRUCTION  
BY *[Signature]* 2/9/95

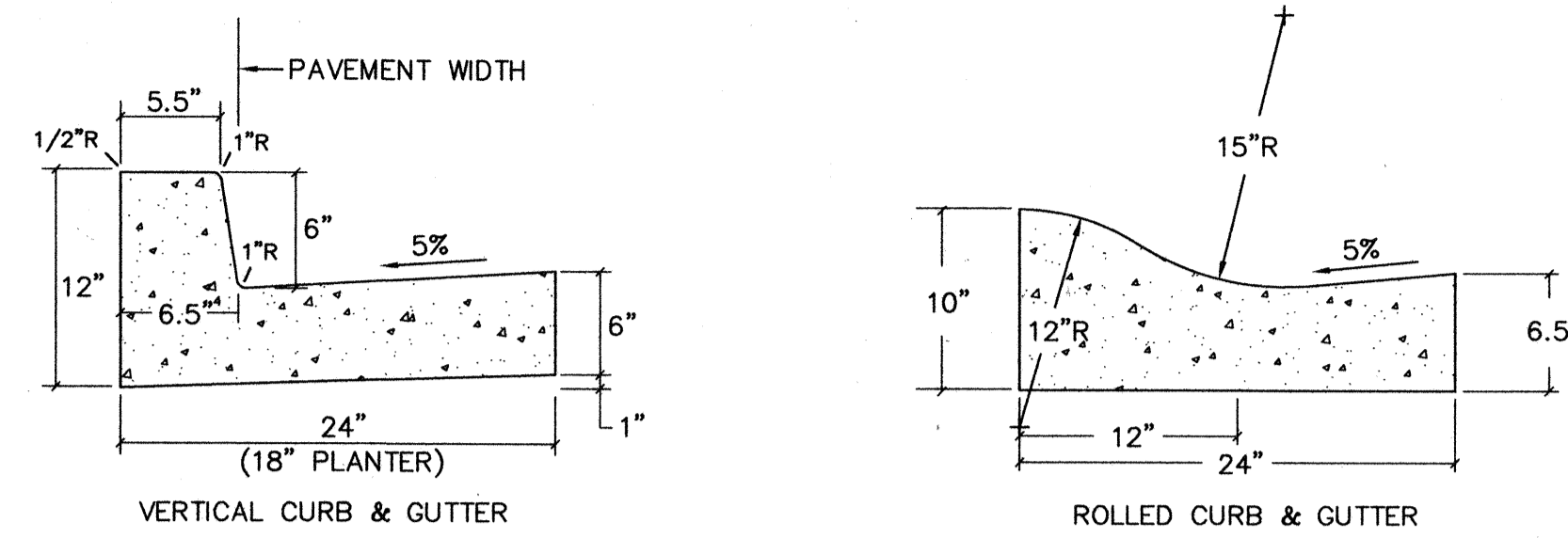
HDEV-479



NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.

GENERAL PLAN NOTES

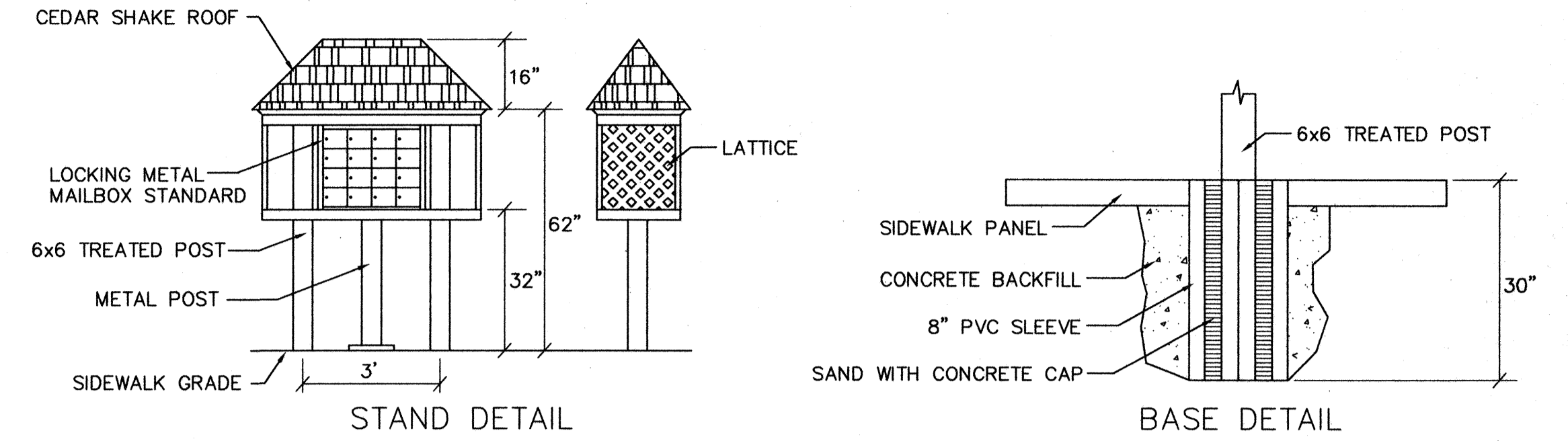
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS AND APPROVED BY THE CITY. THE PROJECT SURVEYOR/ENGINEER IS OSTERGAARD-ROBINSON AT (206) 259-6445.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14)C COMPACTING EARTH EMBANKMENTS METHOD B.
- DISTURBED SOIL SHALL BE HYDRO-SEEDED IF NOT WORKED WITHIN 30 DAYS.
- RIP-RAP FOR EROSION PROTECTION TO BE PLACED TO A MINIMUM DEPTH OF 12". SIZE STONE AS FOLLOWS:  
12" MAXIMUM  
8" MEDIUM (50%)  
2" MINIMUM



NOTES:

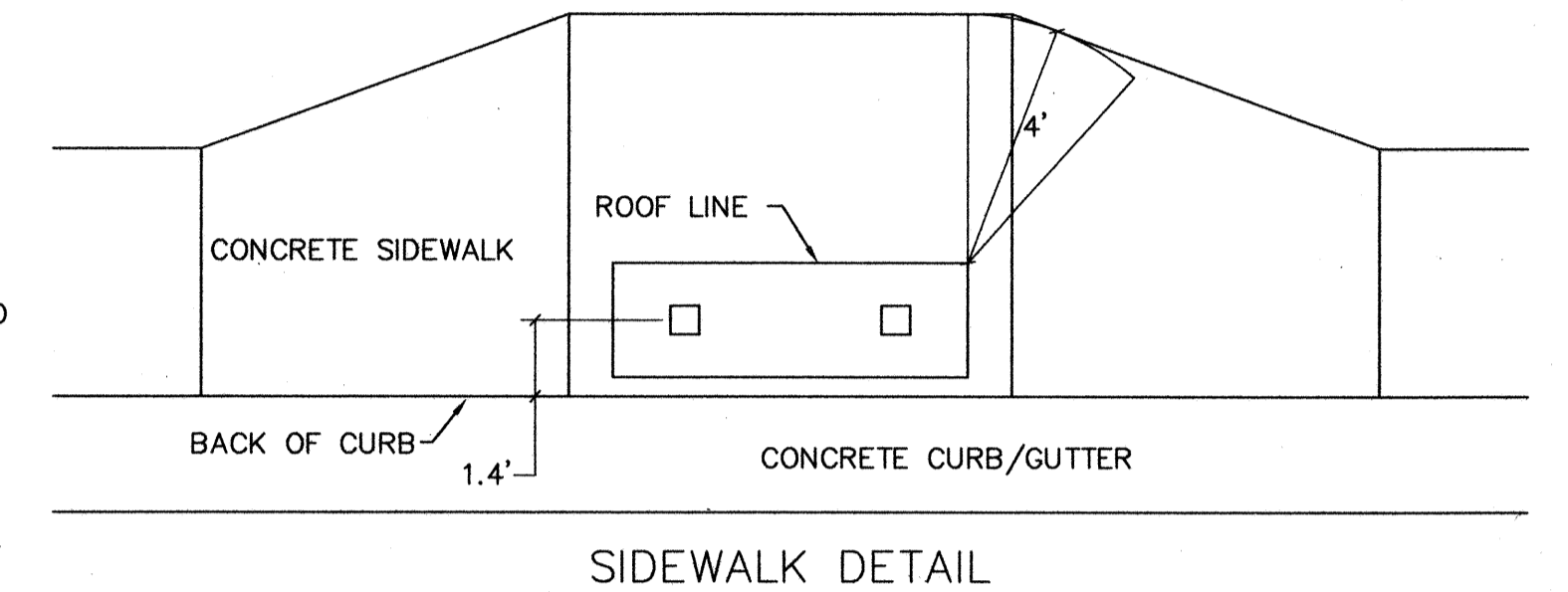
- CONCRETE SHALL BE CEMENT CONCRETE CLASS 5 1/2 SACK EXCEPT FOR COMMERCIAL DEVELOPMENTS WHICH SHALL BE 6 SACK MIX.
- BASE MATERIAL SHALL BE 5/8" MINUS CRUSH GRAVEL AT DEPTH OF 4 INCHES MINIMUM OR A CITY APPROVED MATERIAL.
- FORMS SHALL BE STEEL, EXCEPT OR RADIUS, AND SHALL BE SET TO LINE AND GRADE. STATE APPROVED MACHINED CURBS ARE ACCEPTED, INSPECTION BY THE CITY IS REQUIRED PRIOR TO PLACEMENT OF THE CONCRETE.
- EXPANSION JOINTS SHALL BE PLACED AT 10 FEET ON CENTER AND AT DRIVEWAY RETURNS, CATCH BASINS AND HANDICAP RAMPS.
- CONCRETE SURFACE SHALL BE TOOL FINISHED FIRST AND THEN BROOM FINISHED WITH TOOLED JOINTS.
- MONOLITHIC CURB AND SIDEWALK POURS SHALL NOT BE ACCEPTED.

CONCRETE CURB & GUTTER  
N.T.S.



NOTES:

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



TYPICAL LOCKING MAILBOX STAND  
N.T.S.

STORM DRAINAGE NOTES

- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACKFILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
- THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6", MAXIMUM DEPTH 8", THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO SPECIFICATION 2-03.3(14)C, METHOD b & c.
- ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED. INLETS TO BE PER WDOT/APWA B-26.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
- ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
- ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF PUBLIC R/W SHALL HAVE LOCKING LIDS.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
- CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435 OR 5435A. MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. ALL SHALL BE VANE GRATE EXCEPT AT THRU CURB WHICH SHALL BE HERRINGBONE.
- PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND/OR BEHIND SIDEWALK DRAINS AS REQUIRED. POSITIVE DRAINAGE IS TO BE PROVIDED WHERE FEASIBLE WITH CONNECTION TO STORM DRAIN. STUB-OUTS SHALL BE MARKED WITH A 2" X 4" AND LABELED "STORM" AND INSTALLED WITH TRACER WIRE IN TRENCH.
- STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
- PIPE SPECIFICATIONS: PIPE MATERIAL, JOINTS AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9.05 AND AASHTO AND ASTM DESIGNATIONS AS NOTED BELOW.

MATERIALS ALLOWED FOR STORM DRAIN LINES:

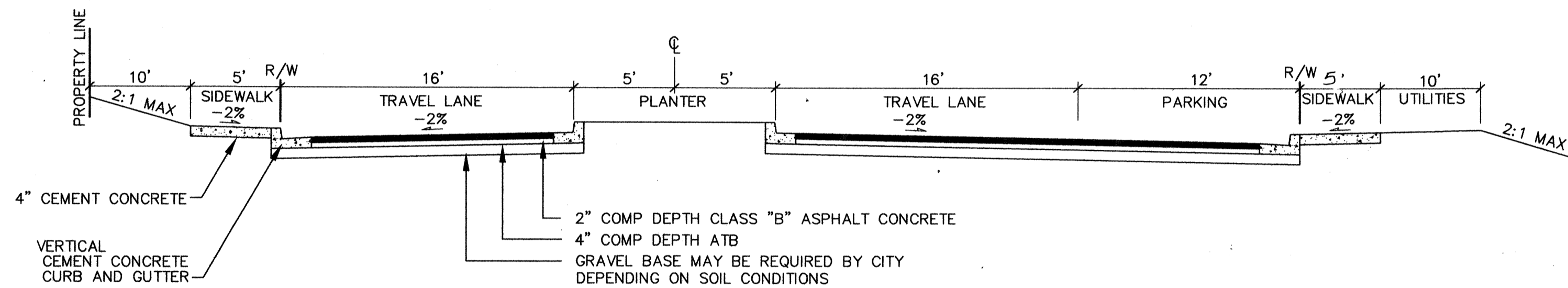
- PLAIN CONCRETE PIPE
- REINFORCED CONCRETE PIPE
- ALUMINUM SPIRAL RIB PIPE
- PVC - 3034

MATERIALS ALLOWED FOR ROOF DRAIN LINES:

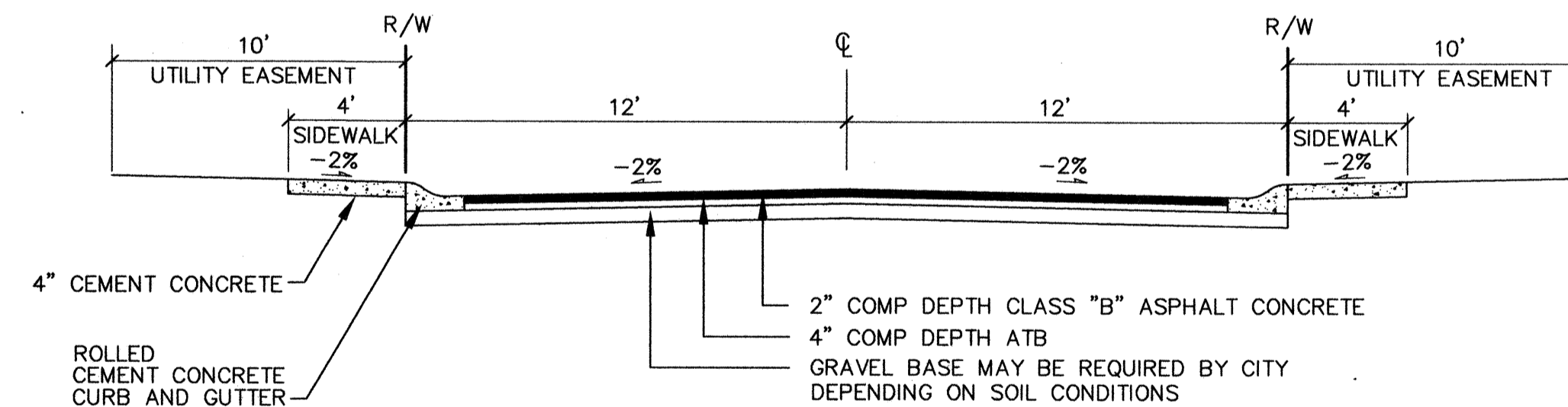
- ASTM D3034 PVC
- SDR35

ALLOWABLE JOINTS:

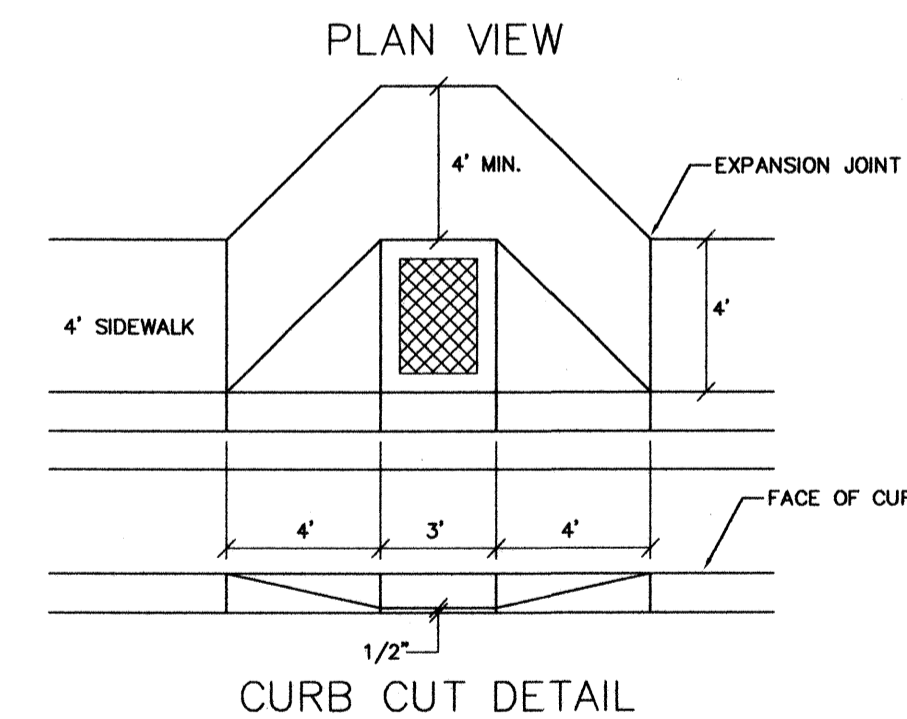
- CONCRETE PIPE SHALL BE RUBBER GASKETED
- SPIRAL RIB PIPE SHALL BE "HAT BANDED" WITH NEOPRENE GASKETS



ENTRANCE ROAD - WITH PLANTER  
SECTION X-X  
N.T.S.

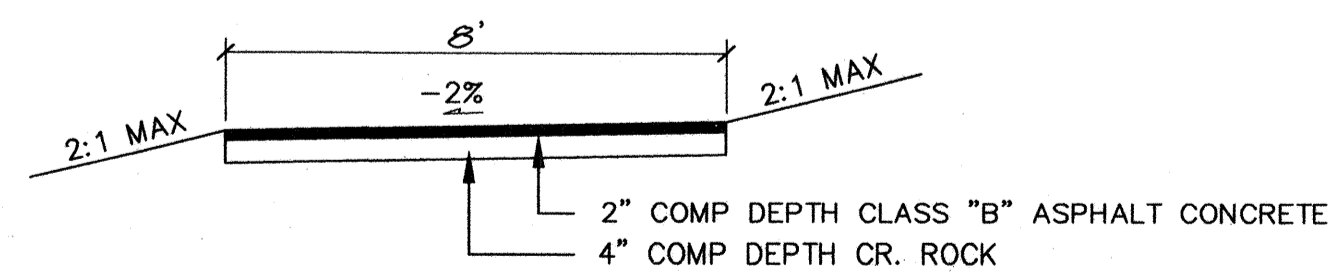


TYPICAL ONSITE ROAD  
SECTION Y-Y  
N.T.S.



NOTES:

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



8' ASPHALT MAINTENANCE ROAD  
SECTION Z-Z  
N.T.S.

ACCESS RAMP - SIDEWALK END  
N.T.S.

CONSTRUCTION SEQUENCE

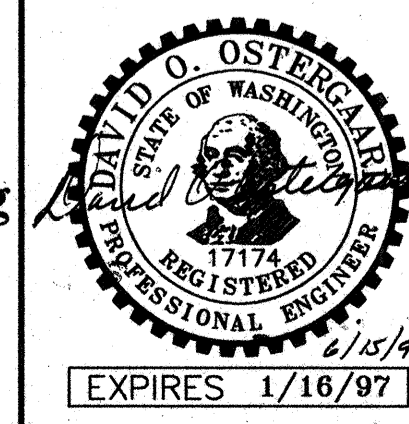
- ATTEND PRE-CONSTRUCTION MEETING (INCLUDING EXCAVATION CONTRACTOR).
- FLAG CLEARING LIMITS. CALL CITY FOR INSPECTION AND APPROVAL.
- INSTALL SILT FENCES AND BARRIER FENCES WHERE SPECIFIED.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE.
- CLEAR FOR AND INSTALL SEDIMENT TRAPS, INTERCEPTOR DITCHES AND CHECK DAMS.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

| NO. | REVISION               | DATE    |
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| 2   | PER CLIENT REVIEW      | 5/30/95 |
| 3   | PER CITY/CLIENT REVIEW | 6/12/95 |
| 4   | PER CITY REVIEW        | 6/22/95 |

|       |         |           |    |
|-------|---------|-----------|----|
| Sheet | 8 of 11 | Designed  |    |
|       |         | Drawn     | ME |
|       |         | Submitted |    |
|       |         | Approved  |    |

**G.W.C.**  
Land Development Consulting  
8888 45th Pl. W.  
Mukilteo, Wa. 98275  
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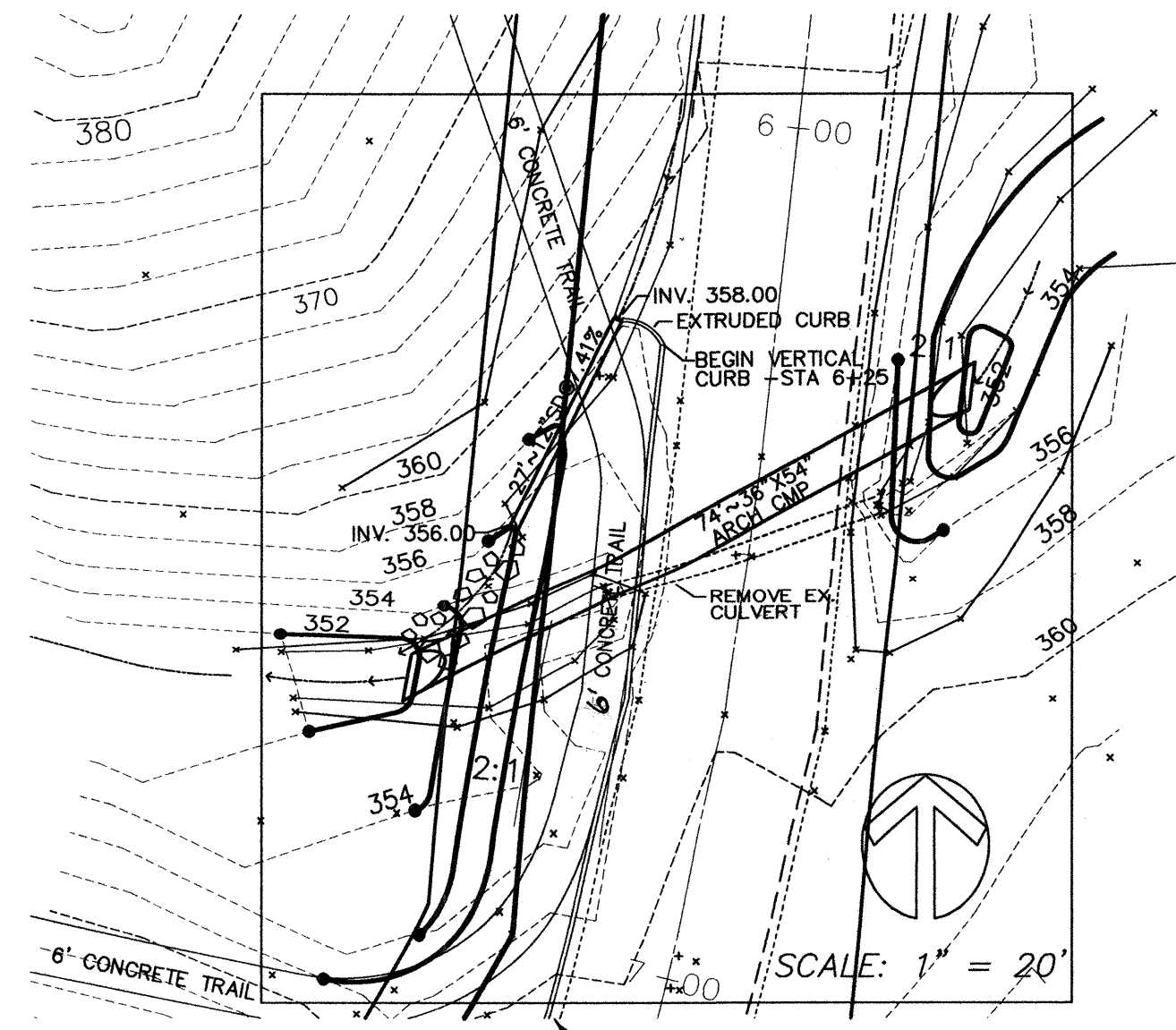
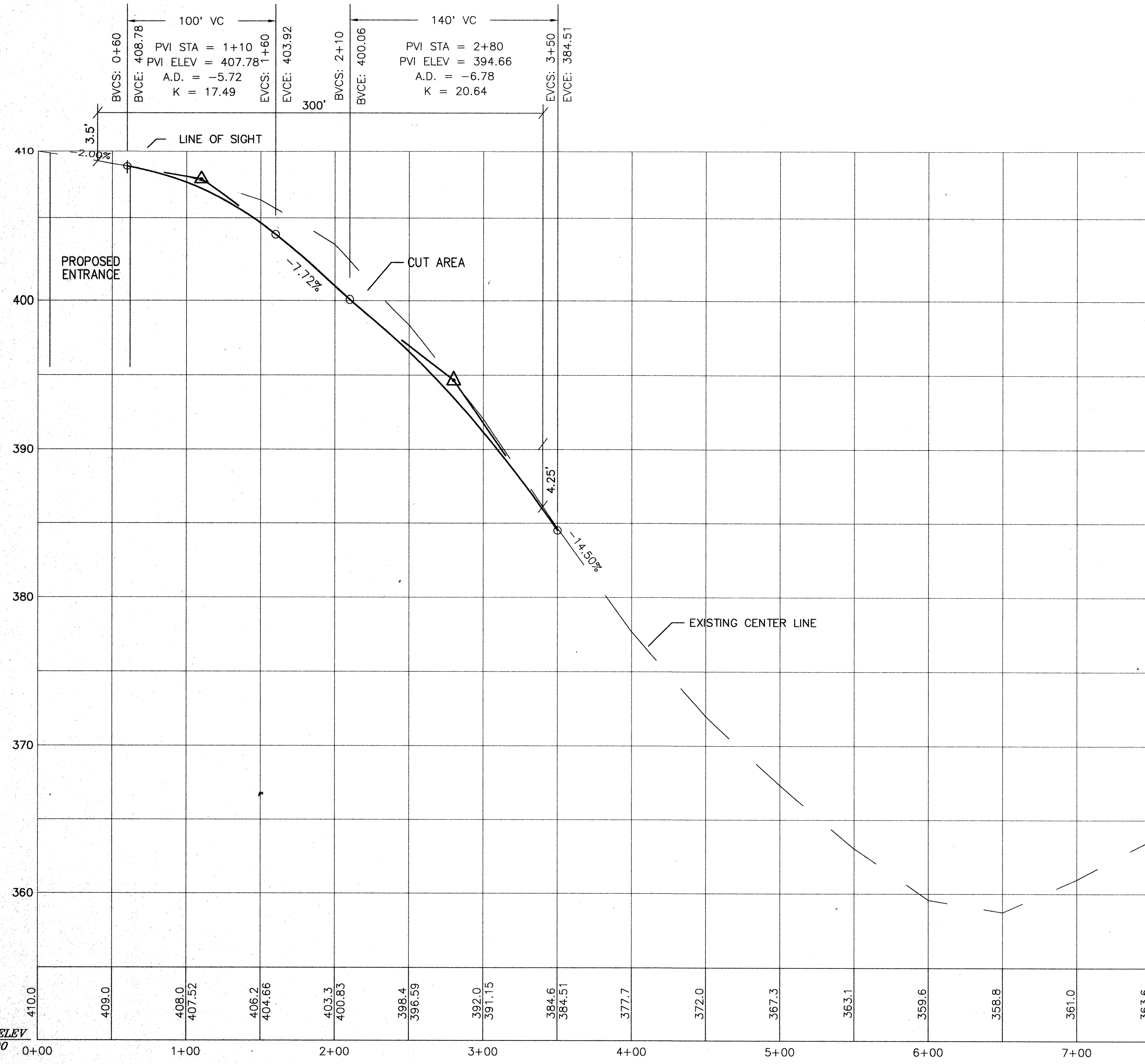
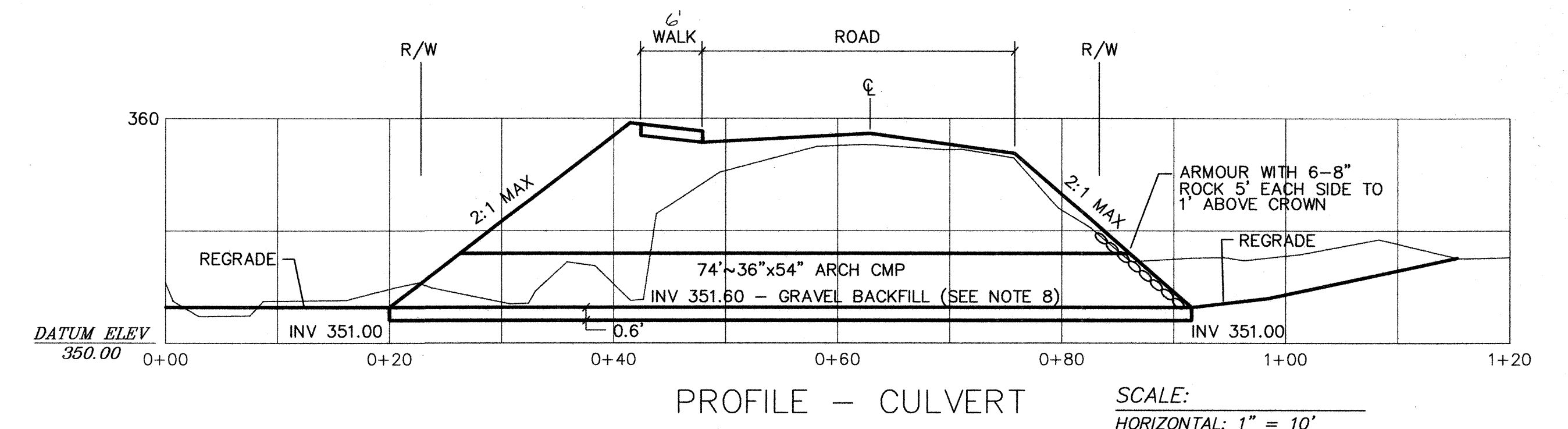
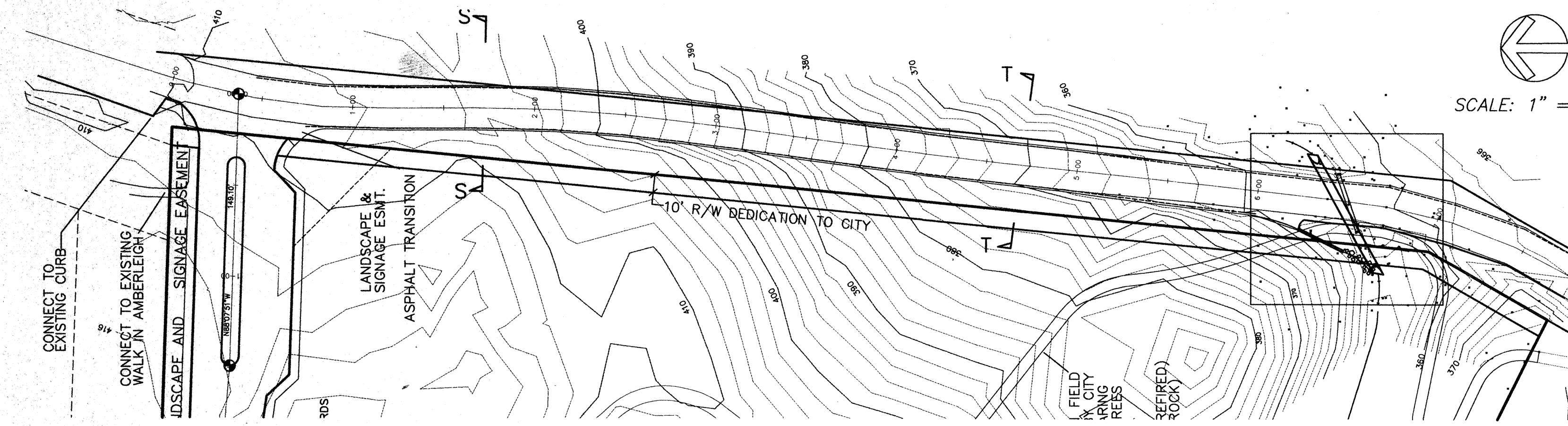
CITY OF MILL CREEK  
APPROVED FOR CONSTRUCTION  
BY *[Signature]* 27 June 95

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

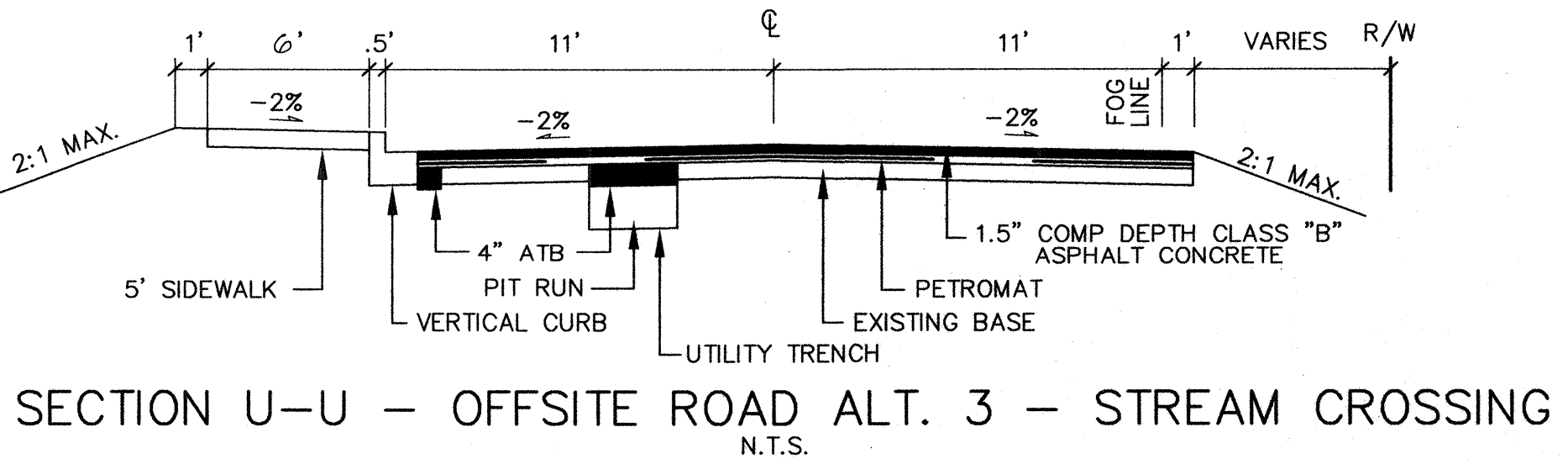
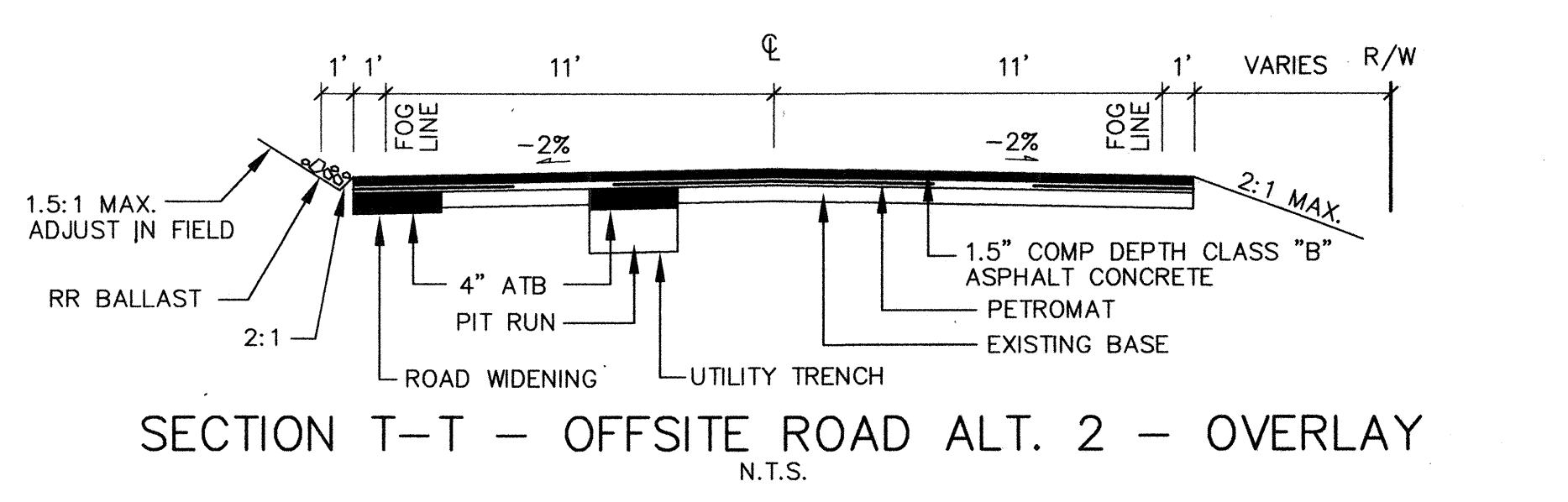
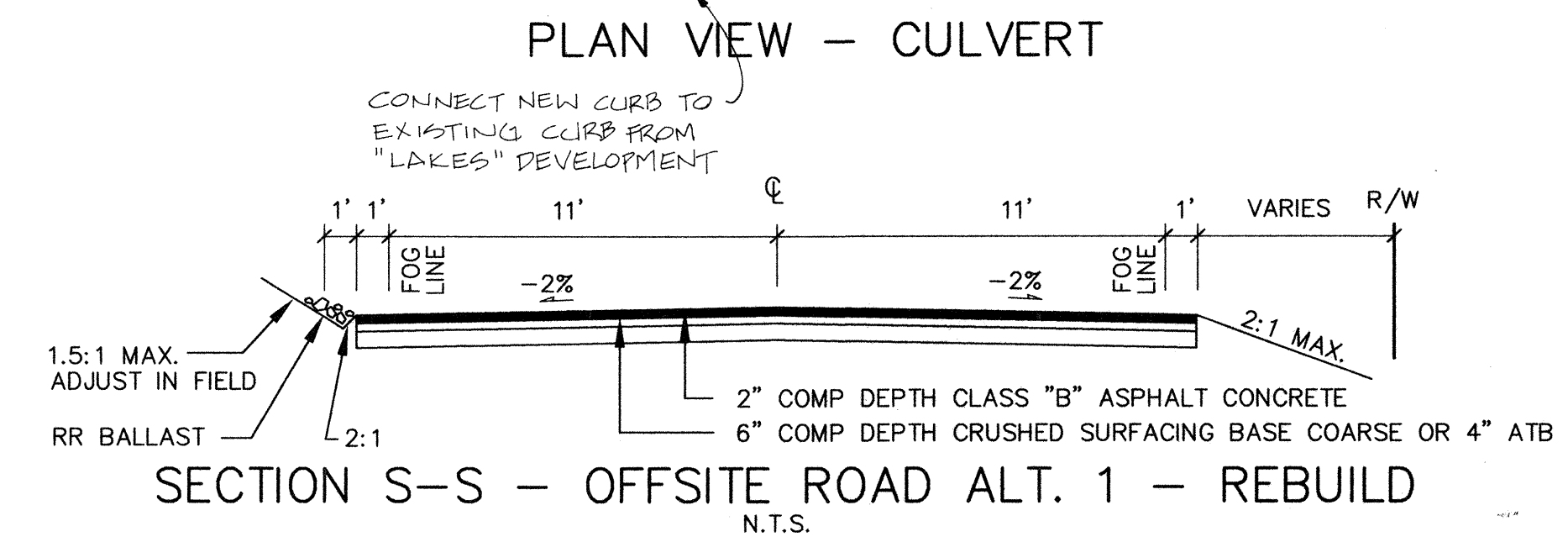
**WINSLOW**  
ROAD + STORM DRAINAGE  
CITY OF MILL CREEK WASHINGTON  
DETAILS

HDEV-480

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



- CULVERT REPLACEMENT**
1. THE PREFERRED CONSTRUCTION PERIOD FOR THE CULVERT REPLACEMENT IS BETWEEN AUGUST 15 AND SEPTEMBER 15. CONTRACTOR TO MAKE EVERY REASONABLE EFFORT TO WORK ONLY WITHIN THIS PERIOD.
  2. PRIOR TO ANY SITE WORK, THE WORK AREA SHALL BE FLAGGED FOR CLEARING AND THE IMPROVEMENTS STAKED, PER CONSTRUCTION PLANS APPROVED BY THE CITY OF MILL CREEK AND PER THE CONDITIONS OF ANY HPA, BY THE PROJECT ENGINEER, OSTERGAARD & ROBINSON - 259-6445.
  3. CONTACT RICH JOHNSON, DEPARTMENT OF FISHERIES AND WILDLIFE @ 339-3876, SEVEN DAYS PRIOR TO START OF CULVERT REPLACEMENT CONSTRUCTION SO THAT HE MAY INSPECT FOR ANY FISH WHICH THE CONTRACTOR MIGHT HAVE TO REMOVE.
  4. STREAM FLOWS, IF ANY, ARE TO BE DIVERTED AROUND THE WORK AREA BY CONSTRUCTING A SANDBAGGED DAM APPROXIMATELY 10' UPSTREAM OF THE NEW INTAKE AND THE WATER PUMPED AROUND THE CONSTRUCTION AREA. PUMPED FLOWS ARE TO BE DISCHARGED INTO A FILTER FABRIC LINED AREA IN THE EXISTING STREAM BED IMMEDIATELY DOWNSTREAM OF THE WORK AREA.
  5. THE EXISTING CULVERT IS TO BE REMOVED AND DISPOSED OF OUTSIDE THE STREAM CORRIDOR.
  6. THE FACE OF THE COMPACTED ROADWAY FILL IS TO BE ARMORED WITH 6"-8" QUARRY SPALLS UP TO THE CROWN OF THE OUTFALL PIPE FOR A HORIZONTAL DISTANCE OF 5' EACH SIDE OF THE PIPE.
  7. THE OUTFALL ELEVATION OF THE REPLACEMENT CULVERT IS TO BE SET TO MATCH THE EXISTING STREAM BED AT THE OUTFALL LOCATION, OR LOWER IF RECOMMENDED BY RICH JOHNSON AFTER HIS SITE INSPECTION PER ITEM #3 ABOVE. THIS WILL NECESSITATE THE REGRADING OF APPROXIMATELY 10 FEET OF STREAM BED AT THE INTAKE TO MATCH THE LOWER, 0% CULVERT SLOPE, INVERT ELEVATION. (APPROXIMATELY 1' CUT.)
  8. THE INVERT OF THE 36" X 58" PIPE ARCH IS TO BE DEPRESSED 20% BELOW THE BED OF THE STREAM AND BACKFILLED 20% WITH THE FOLLOWING MIXTURE OF WASHED RIVER ROCK: 45% SIZED 1/4" TO 1-1/2", 40% SIZED 1-1/2" TO 3" AND 15% SIZED 3" TO 4". A SMALL AMOUNT OF FINES IS PERMITTED.



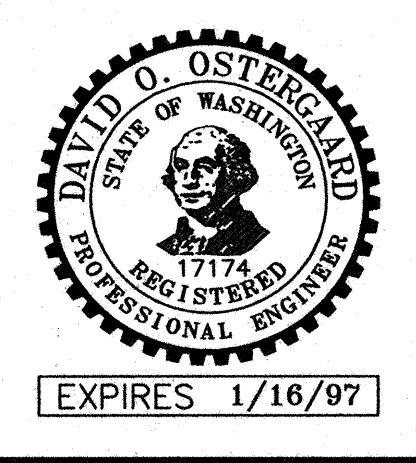
SEATTLE HILL ROAD  
 SCALE:  
 HORIZONTAL: 1" = 50'  
 VERTICAL: 1" = 5'

| NO. | REVISION               | DATE    |
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| 3   | PER CITY/CLIENT REVIEW | 6/14/95 |
| 4   | PER CLIENT REVIEW      | 6/20/95 |
| 5   | PER CITY REVIEW        | 6/29/95 |

|         |         |           |    |
|---------|---------|-----------|----|
| Sheet   | 9 of 11 | Designed  | ME |
| Job No. | 94145   | Drawn     |    |
|         |         | Submitted |    |
|         |         | Approved  |    |

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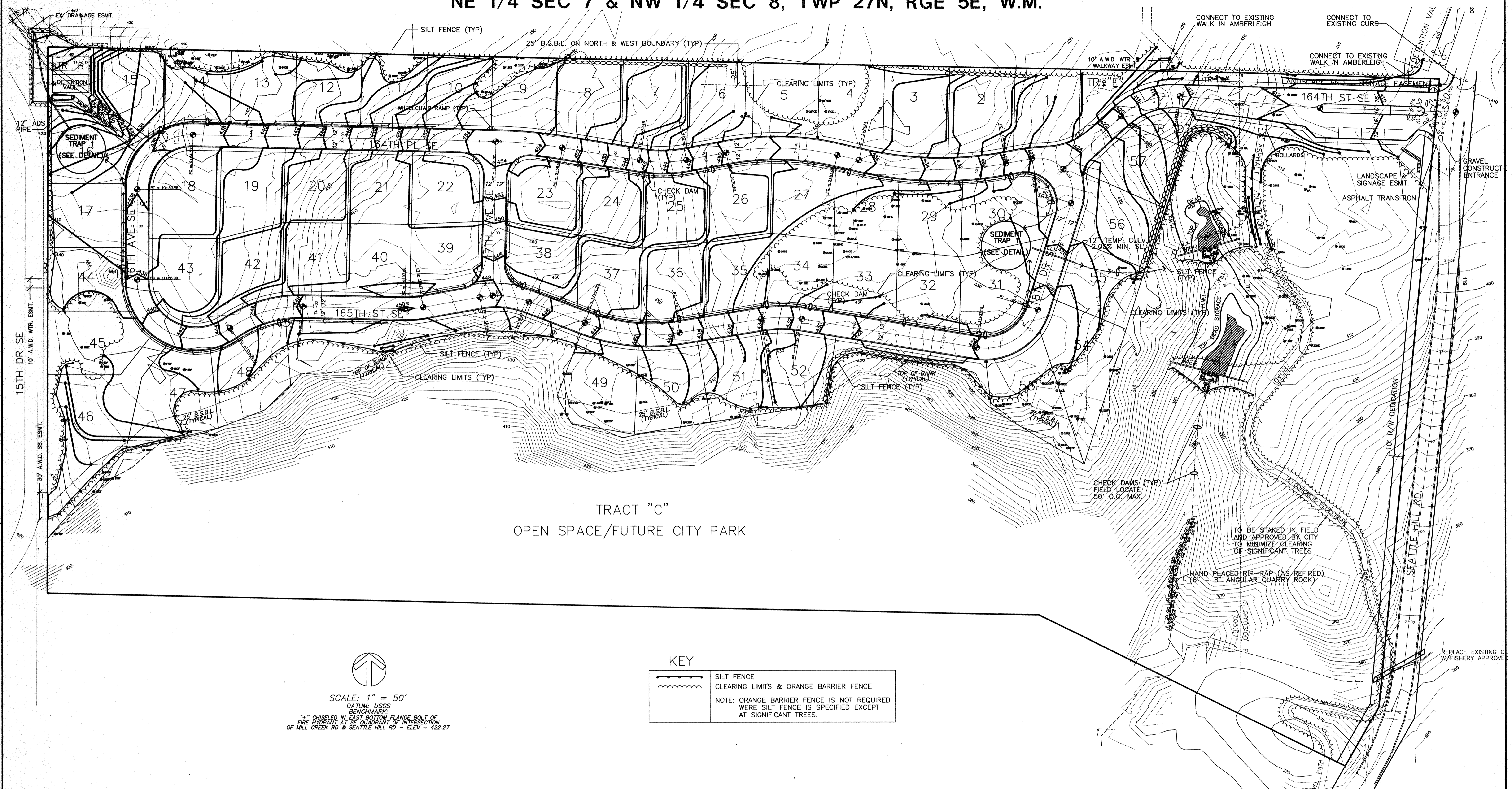
CITY OF MILL CREEK  
 APPROVED FOR CONSTRUCTION  
 BY *[Signature]* 2.9.1995

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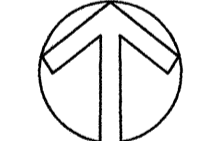
**WINSLOW**  
 ROAD + STORM DRAINAGE  
 PROFILE  
 CITY OF MILL CREEK WASHINGTON

HDEV-481

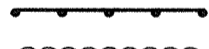

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



TRACT "C"  
OPEN SPACE/FUTURE CITY PARK

  
 SCALE: 1" = 50'  
 DATUM: USGS  
 BENCHMARK:  
 \*A\* CHISELED IN EAST BOTTOM FLANGE BOLT OF  
 FIRE HYDRANT AT SE QUADRANT OF INTERSECTION  
 OF MILL CREEK RD & SEATTLE HILL RD - ELEV = 422.27

KEY

|  |  |
|--|--|
|                 | SILT FENCE                             |
|                 | CLEARING LIMITS & ORANGE BARRIER FENCE |
| NOTE: ORANGE BARRIER FENCE IS NOT REQUIRED WERE SILT FENCE IS SPECIFIED EXCEPT AT SIGNIFICANT TREES. |  |

CITY OF MILL CREEK  
APPROVED FOR CONSTRUCTION  
BY *[Signature]* 2/11/95

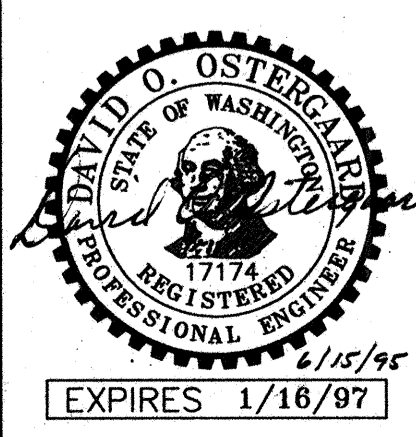
| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/31/95 |
| 2   | PER CITY REVIEW        | 6/12/95 |

|         |          |           |    |
|---------|----------|-----------|----|
| Sheet   | 10 of 11 | Designed  |    |
|         |          | Drawn     | ME |
|         |          | Submitted |    |
| Job No. | 94145    | Approved  |    |

**G.W.C.**  
Land Development Consulting

8888 45th Pl. W.  
Mukilteo, Wa. 98275  
347-4627 & 828-9881



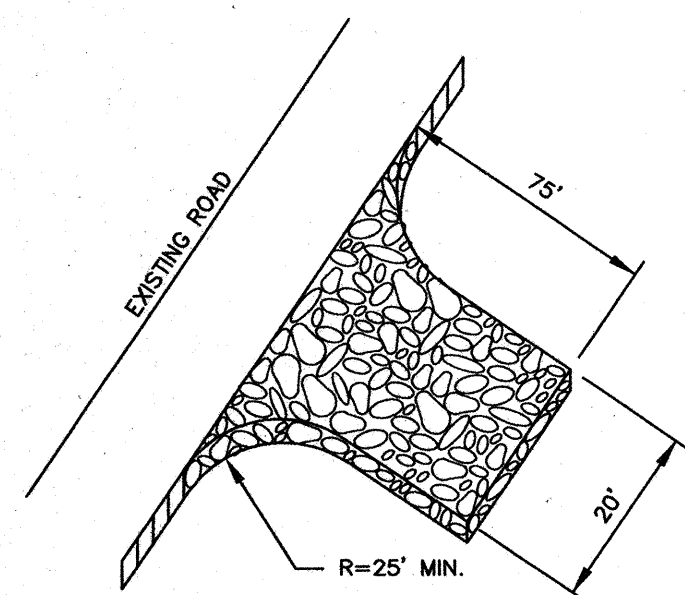
**OSTERGAARD • ROBINSON**  
& ASSOC. INC. CONSULTING ENGINEERS

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

**WINSLOW**  
CLEARING + GRADING  
PLAN

CITY OF MILL CREEK WASHINGTON

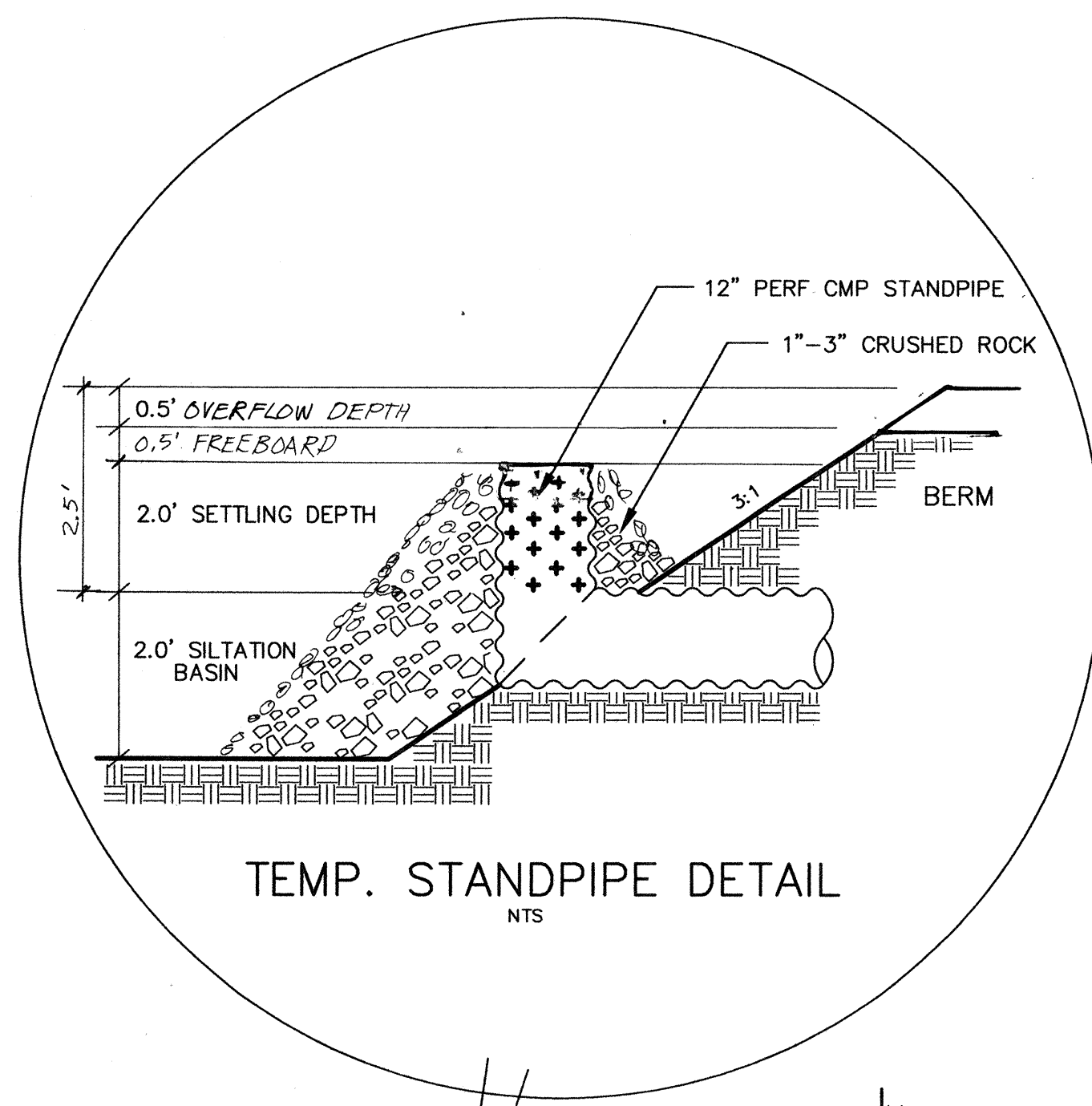
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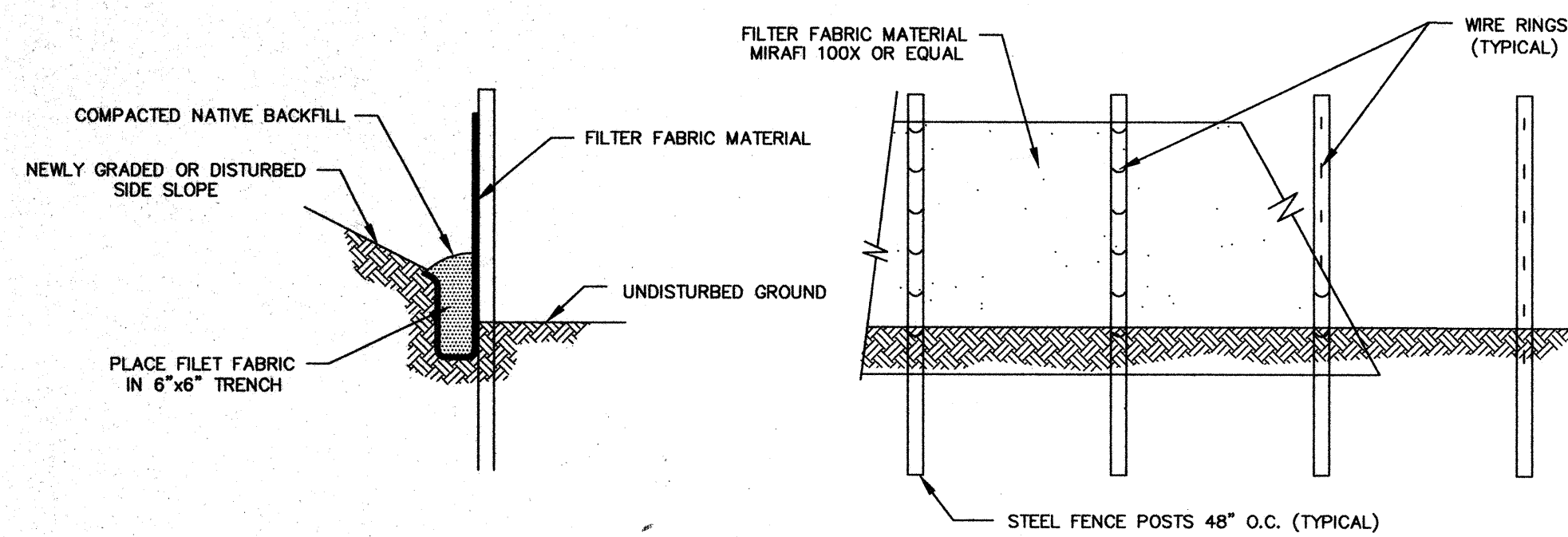
GRAVEL CONSTRUCTION ENTRANCE  
NTS

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

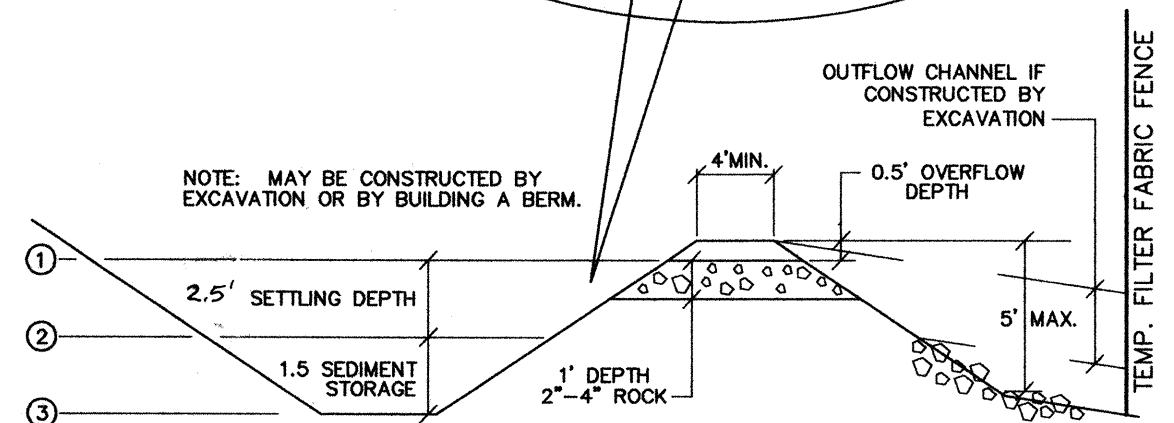
1. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS 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.



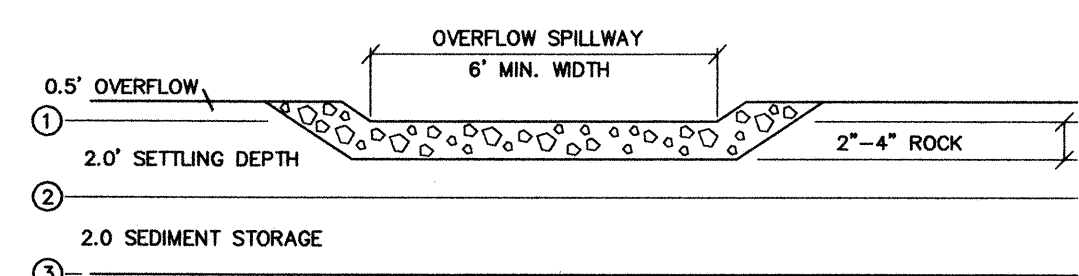
TEMP. STANDPIPE DETAIL  
NTS



SILT FENCE DETAILS  
NTS



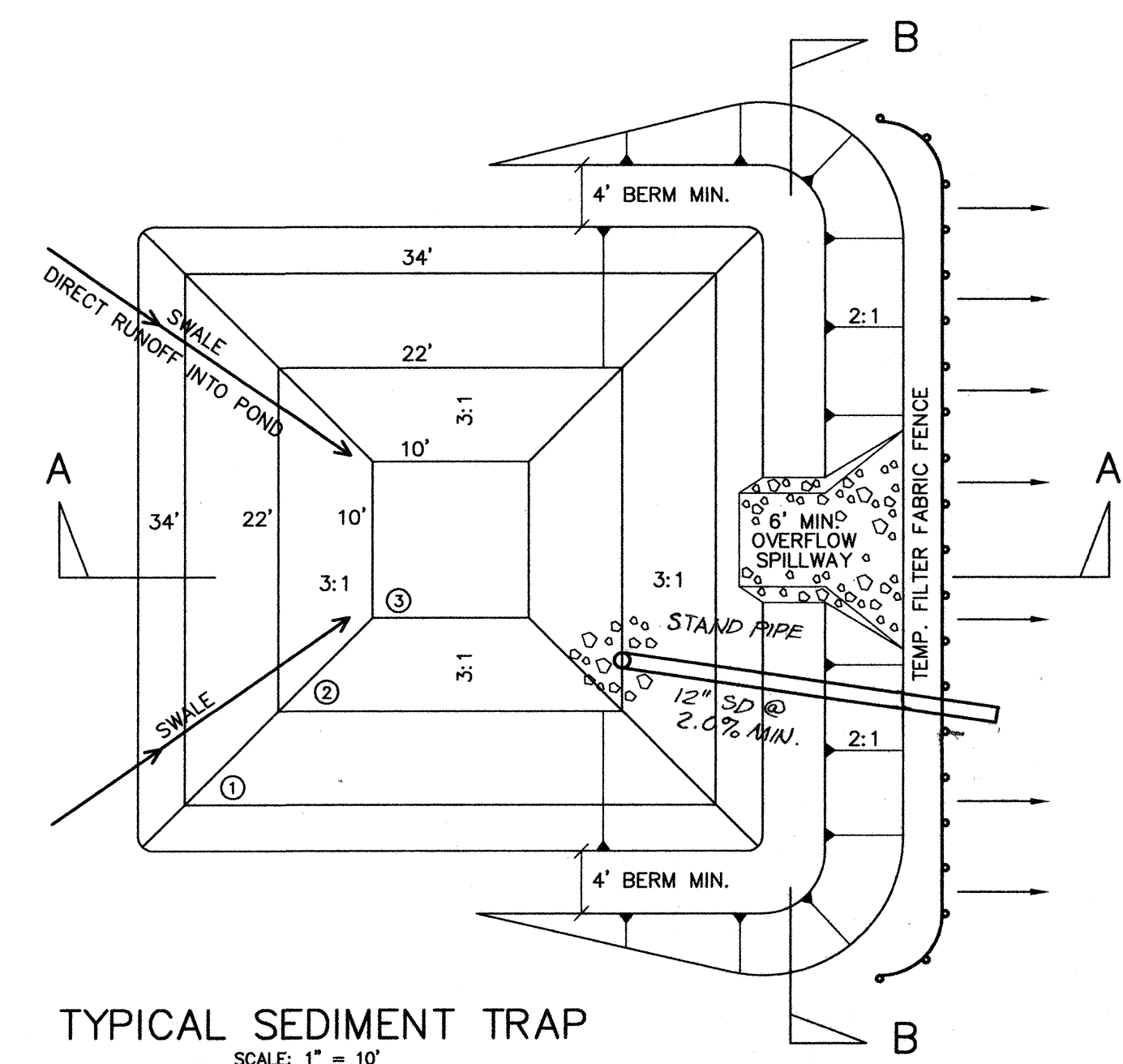
SECTION A-A



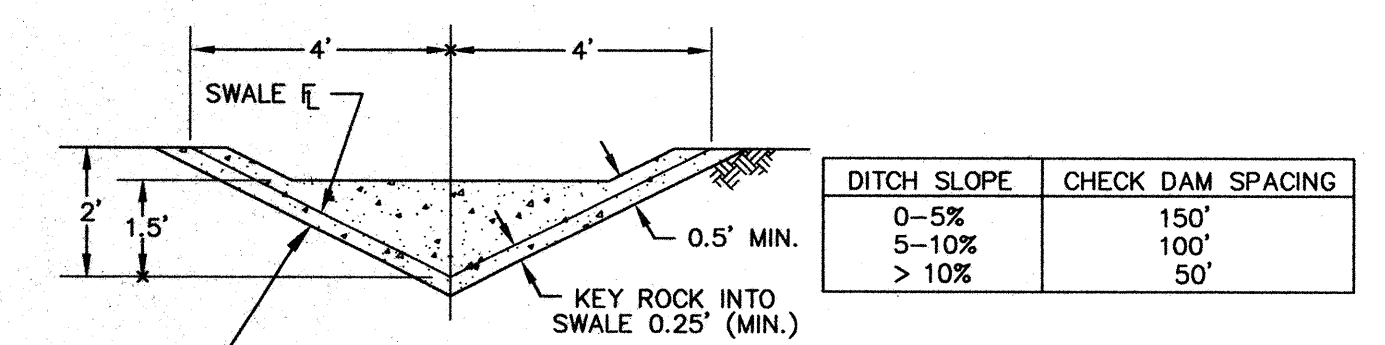
SECTION B-B

| TEMPORARY SEDIMENT TRAP - MINIMUM DIMENSIONS |         |         |         |
|--|---------|---------|---------|
| T.S.T.#                                      | 1       | 2       | 3       |
| ALL PONDS                                    | 34 X 34 | 22 X 22 | 10 X 10 |

SEE HYDRAULIC CALCULATIONS FOR T.S.T. CALCULATIONS



TYPICAL SEDIMENT TRAP  
SCALE: 1" = 10'



ROCK CHECK DAM DETAILS  
NTS

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 IF RECOMMENDED BY SOILS ENGINEER. 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, MULCHING AND SILT FENCING. 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:  
40% ANNUAL, PERENNIAL OR HYBRID RYE GRASS  
60% CREEPING RED FESCUE  
HYDROSEED REQUIRED.
9. FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.

CITY OF MILL CREEK  
APPROVED FOR CONSTRUCTION  
BY *[Signature]* 2.7.1995

| NO. | REVISION               | DATE    |
|-----|------------------------|---------|
| 1   | PER CITY/CLIENT REVIEW | 5/19/95 |
| 2   | PER CLIENT REVIEW      | 5/31/95 |
| 3   | PER CITY REVIEW        | 6/13/95 |

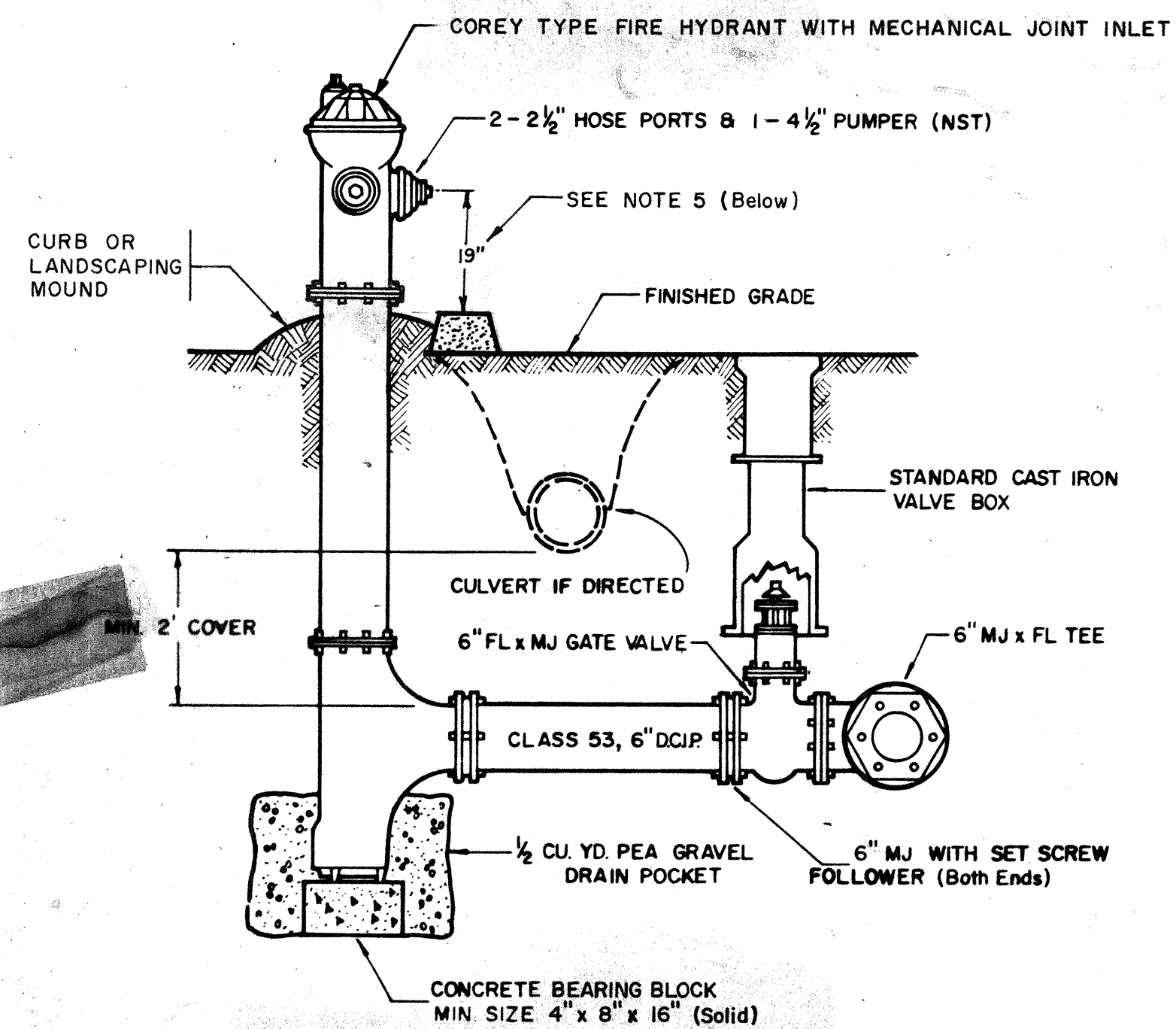
|         |          |           |    |
|---------|----------|-----------|----|
| Sheet   | 11 of 11 | Designed  | ME |
| Job No. | 94145    | Drawn     |    |
|         |          | Submitted |    |
|         |          | Approved  |    |

**G.W.C.**  
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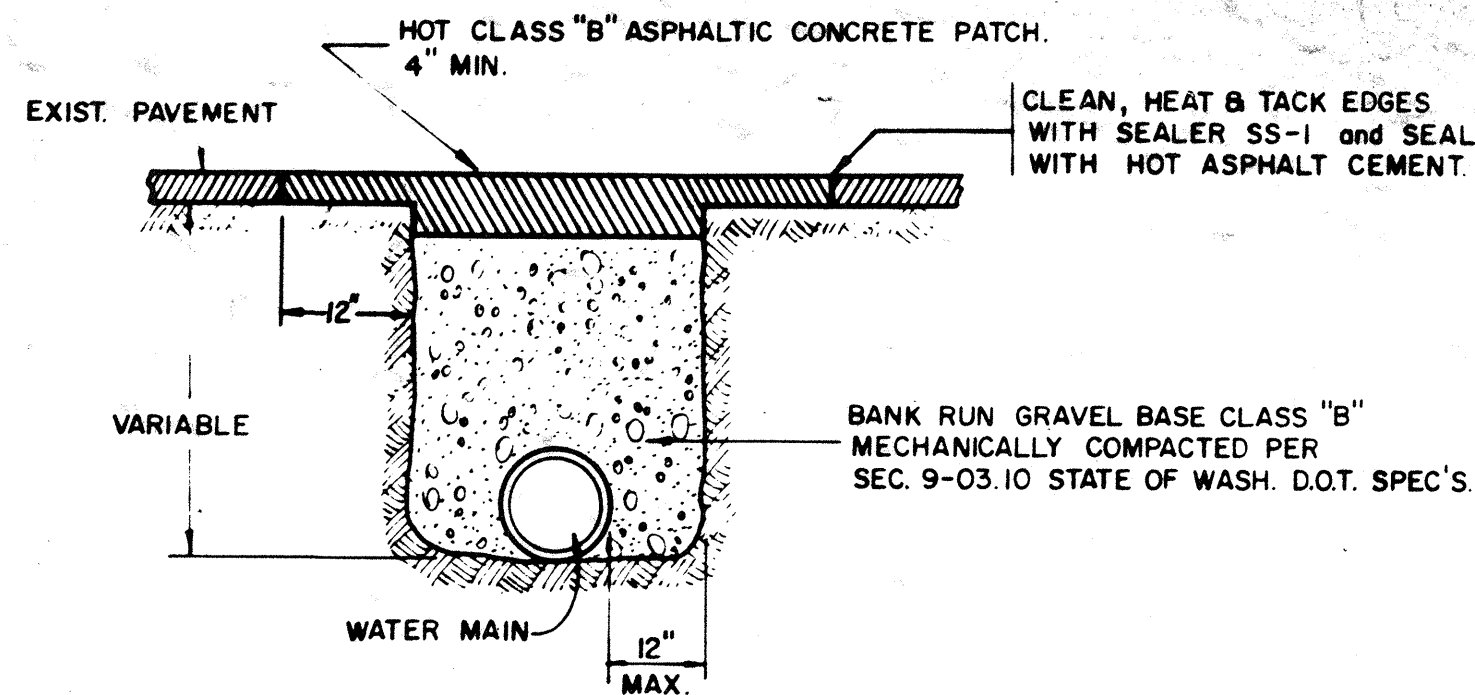
**WINSLOW**  
CLEARING + GRADING  
CITY OF MILL CREEK DETAILS WASHINGTON

HDEV-483



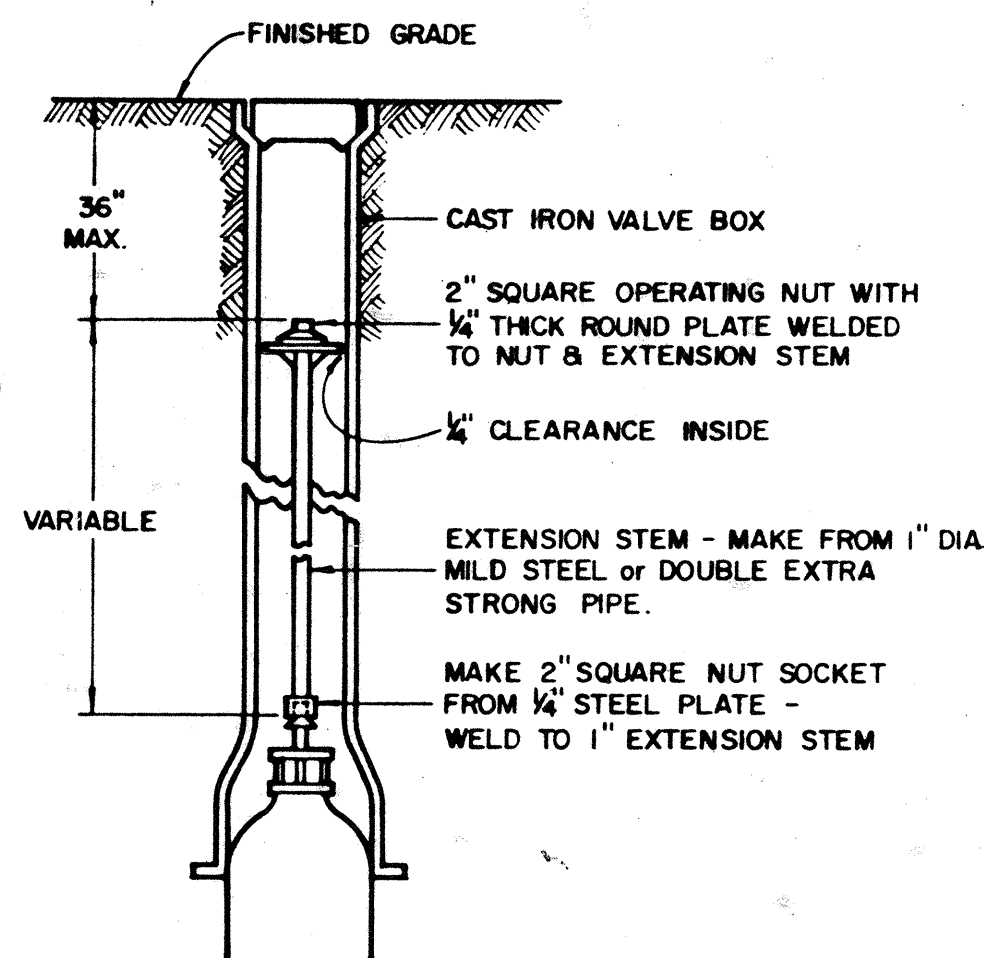
**HYDRANT ASSEMBLY**

- 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.

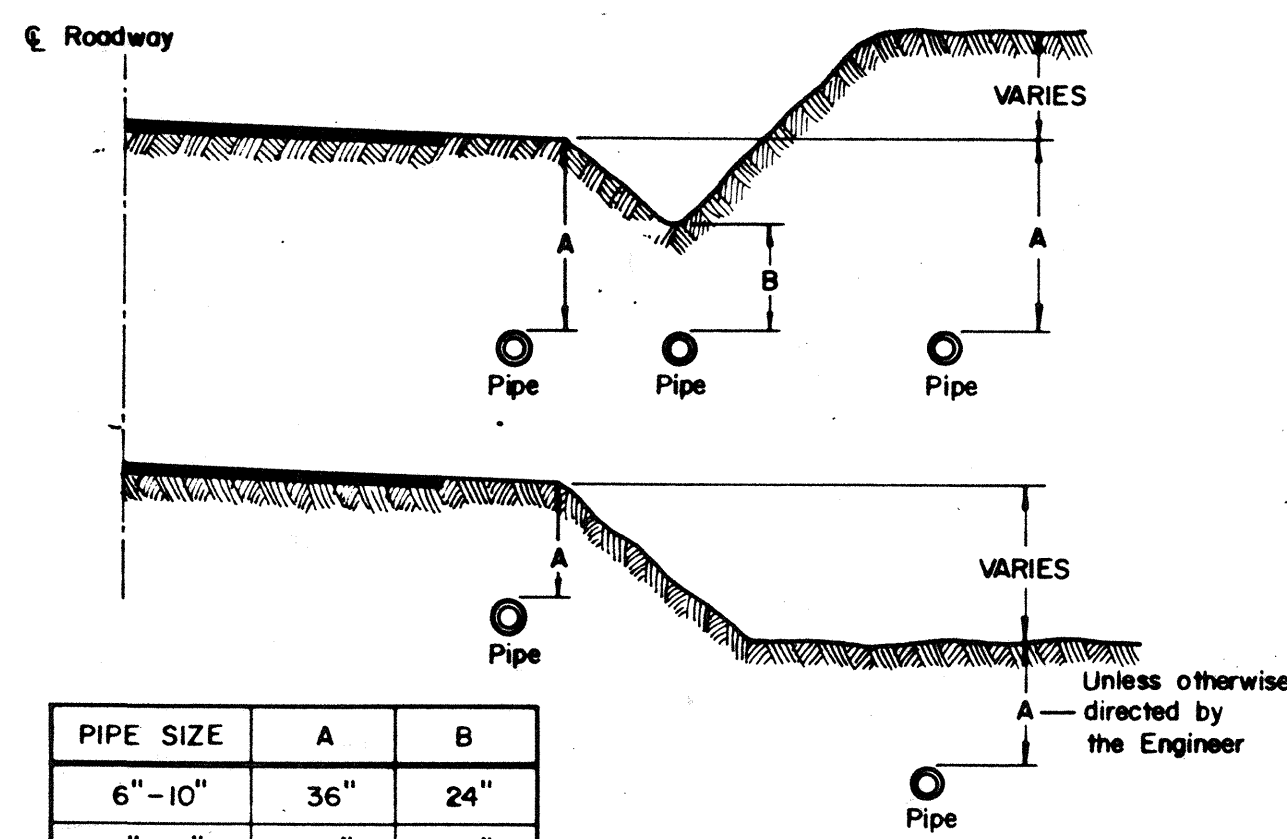


**RESTORATION & BACKFILL ACROSS PAVED AREAS**

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

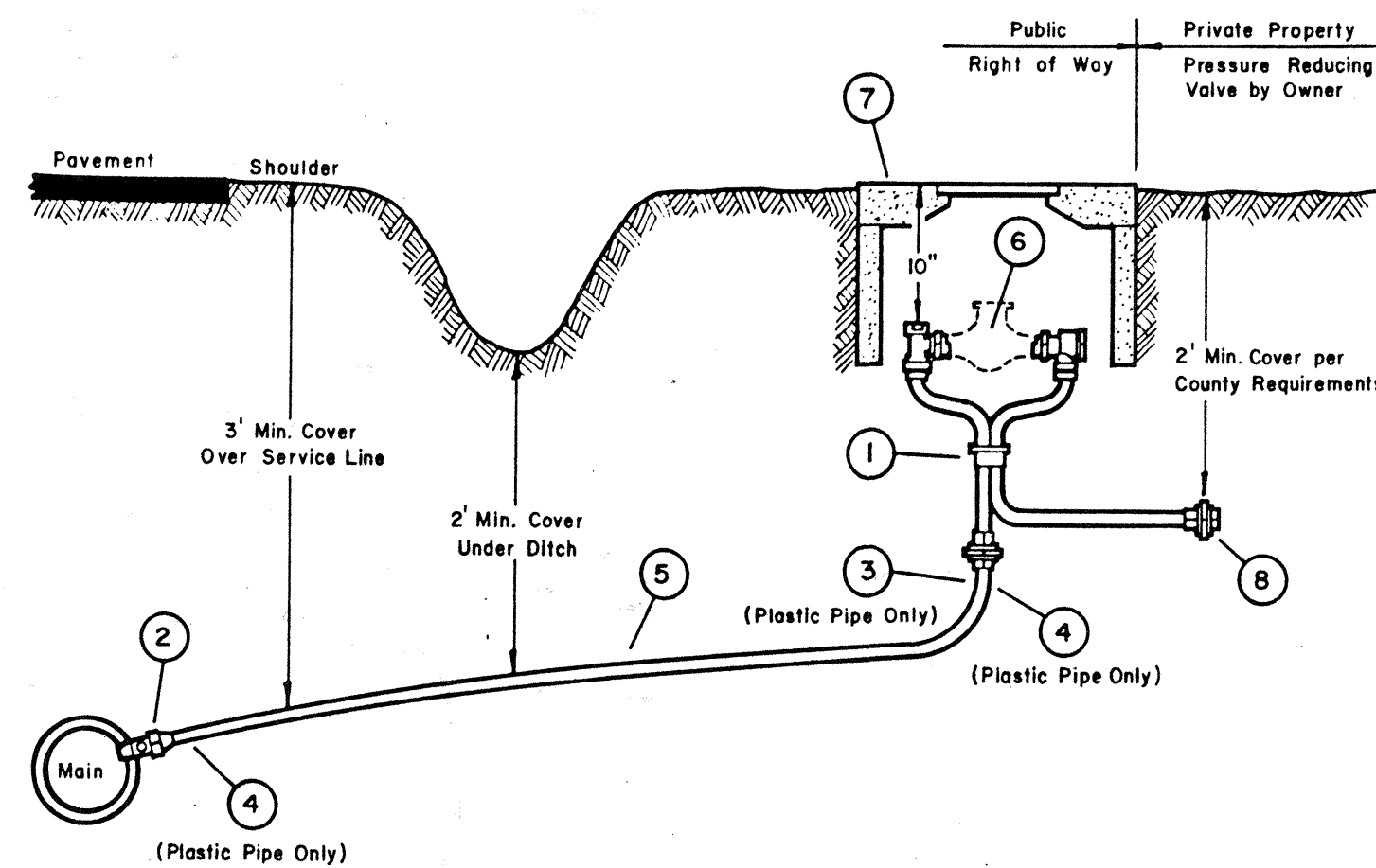


**VALVE EXTENSION STEM**



**STANDARD DEPTH REQUIREMENTS**

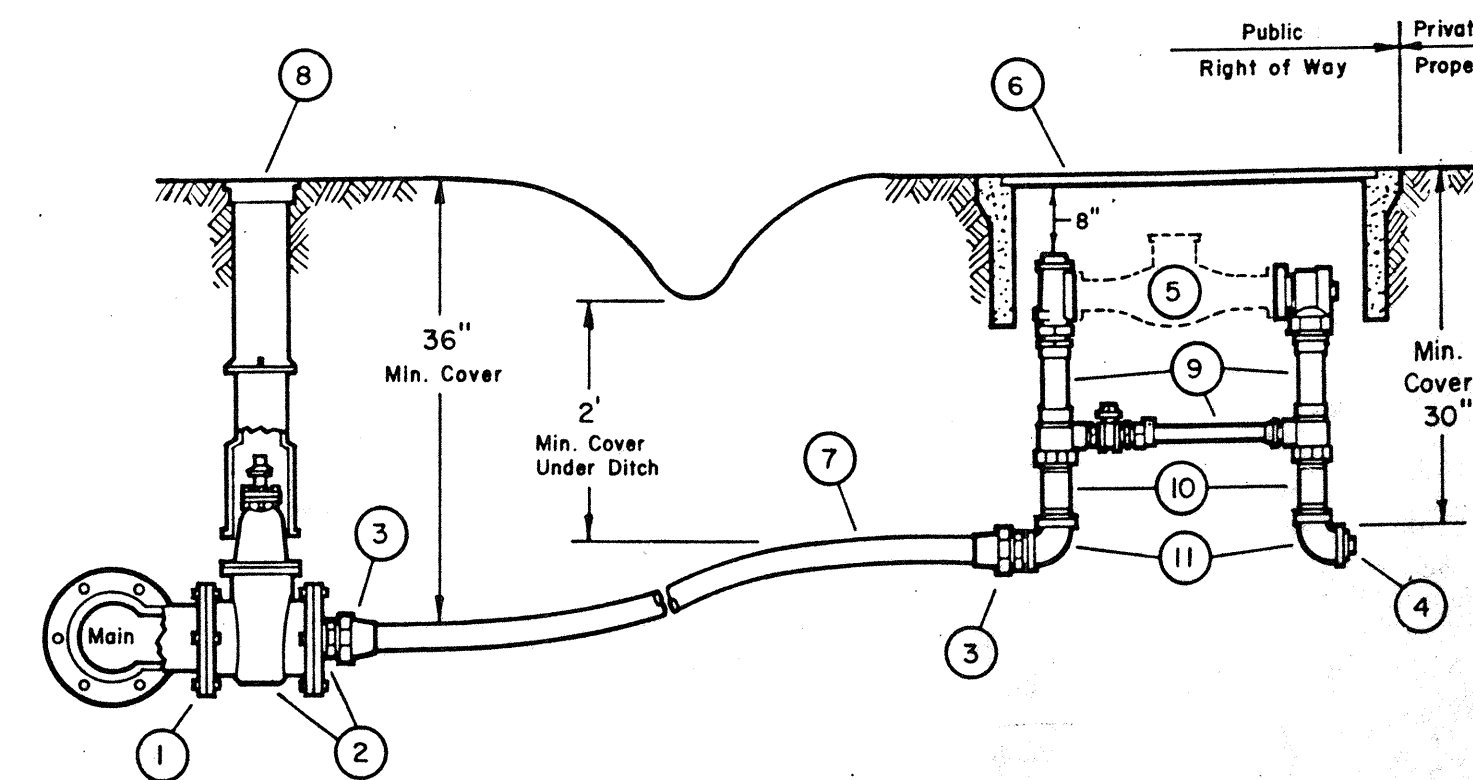
**3/4" & 1" Meter Service Installation**  
ALDERWOOD WATER DISTRICT



|     |  | MANUFACTURER             |      |   |         |        |      |
|-----|--|--------------------------|------|---|---------|--------|------|
| NO. | ITEM   | MATERIAL                 | SIZE | FORD  | MUELLER | JONES  | HAYS |
| 1   | METER SETTER                                   | COPPER                   | 3/4" | 3/4" x 5/8" METER SETTER, FORD VBH 92-12 x 15 EXTENSION with Vertical Inlet, or 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       | 3/4" | F600  | H-15000 | J-1500 | 5200 |
|     |  |                          | 1"   | F600  | H-15000 | J-1500 | 5200 |
|     |  | FOR PLASTIC SERVICE      | 3/4" | F400  | H-9996  | J-45   | 5281 |
| 3   | MIP x INSERT (Plastic Size)                    |                          | 3/4" | PTF-1   | H-12218 | J-1400 |      |
|     |  |                          | 1"   | PTF-2   | H-12218 | J-1400 |      |
| 4   | STAINLESS STEEL CLAMP (2 Req'd per Connection) | Use on Plastic Pipe Only | 3/4" | COMBO-HEX IDEAL No. 6816  |         |        |      |
| 5   | PIPE   | PLASTIC (Under 100 PSI)  |      | 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<br>ASTM Spec. B88, Type K<br>AWWA Spec. 75-CR, Type K                  |         |        |      |
| 6   | METER (Furnished by A.W.D.)                    |                          |      |   |         |        |      |
| 7   | METER BOX                                      |                          | 3/4" | FOG TITE B 9 1/2 H or T; or BROOKS 37H or T   |         |        |      |
|     |  |                          | 1"   | FOG TITE B 10 H or T  |         |        |      |
| 8   | PLUG SIZE X M.I.P.                             |                          |      |   |         |        |      |

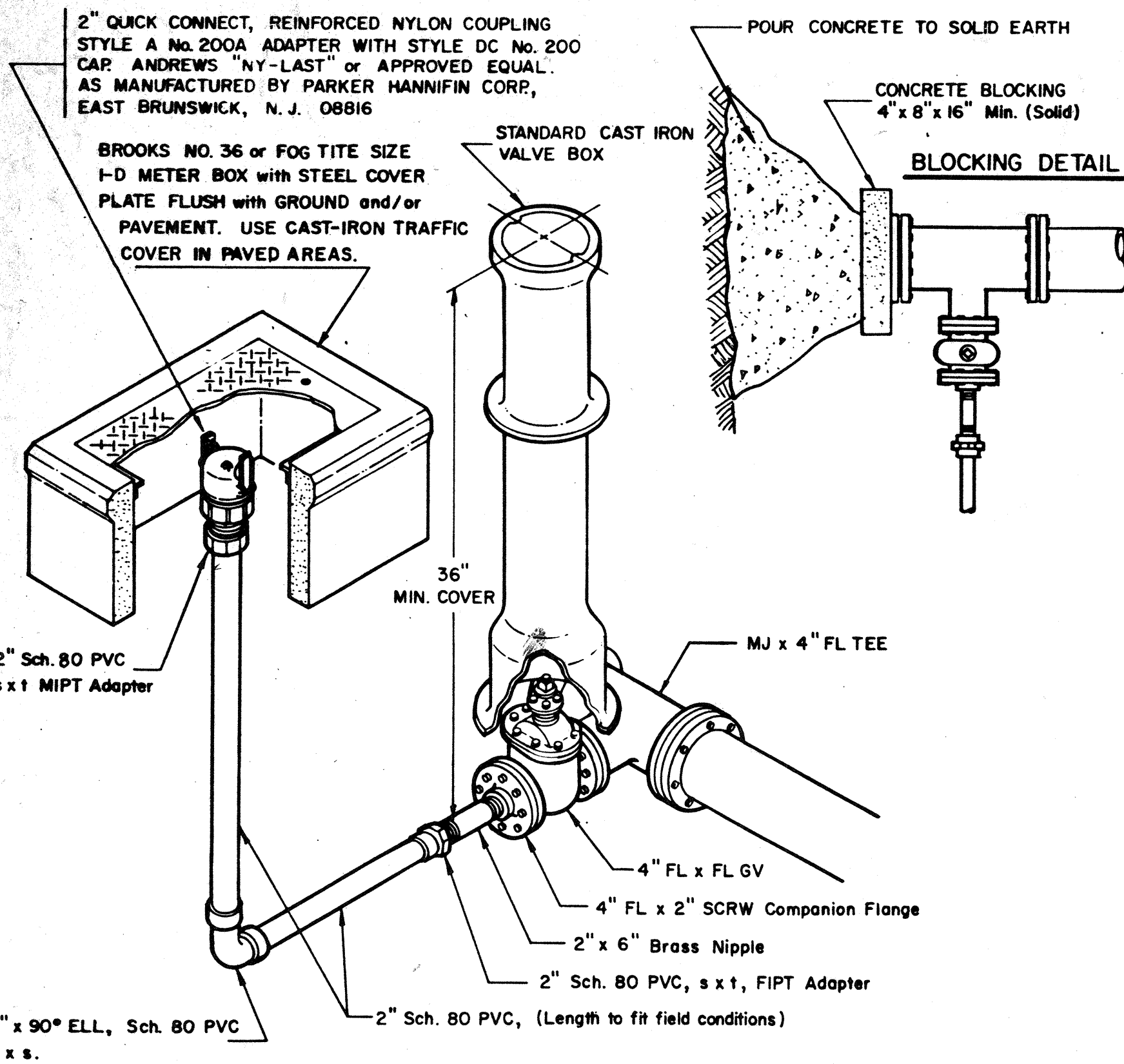
- NOTES:
1. SPLICES - No Splices under blacktop, Maximum of one splice allowed. Use Mueller Union H-15400 or approved equal.
  2. See Service Connection Specification Sheet for more detailed installation information.
  3. Owners are responsible for installing Pressure Reducer on their system to protect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

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



| NO. | ITEM  | MAT'L.           | REMARKS  |
|-----|---|------------------|--|
| 1   | MJ x 4" FL TEE  | C.I. or D.C.I.P. |  |
| 2   | 4" FL x FL GV with 4" FL x 2" (or 1 1/2" with Brass Bushing) SCRW Reduction Flange. | A.W.W.A.         |  |
| 3   | Flared Copper Cplg. (Copper x M.I.P.T.)   | Brass            | FORD: 1 1/2", C28-66 2", C28-77<br>MUELLER: H-15425<br>JONES: J1531 HAYES: 5605                  |
| 4   | PLASTIC PLUG, Sched. 40   | PVC              |  |
| 5   | METER   |                  | FURNISHED BY A.W.D.  |
| 6   | Meter Box; Fog Tite 2T or Brooks 65-TR, with steel traffic cover (see note 4).      |                  | See Note 4   |
| 7   | Type "K" Copper Pipe (Soft)   | Copper           |  |
| 8   | Standard Cast-Iron Valve Box  | Cast-Iron        |  |
| 9   | METER SETTER  |                  | 1 1/2" FORD No. VBH66-12BX13 (or approved equal)<br>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 (sh. 2) for more detailed installation information.
  3. Owners are responsible for installing Pressure Reducer on their system to protect their facilities from High Pressure.
  4. Plastic Shell & Cover (Carson Industries 1324-15L) may be used in Non-Traffic areas only when approved by A.W.D.

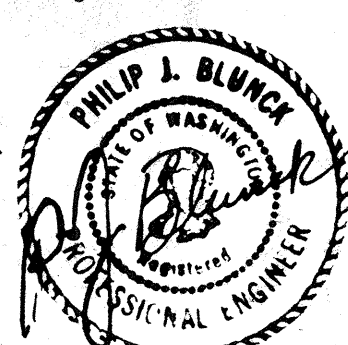


**2" BLOWOFF ASSEMBLY**

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

**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 CONTRACTOR'S SYSTEM SHALL BE DISCONNECTED AND TESTED INDEPENDENTLY ALL AT CONTRACTOR'S 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.



| REV. | DESCRIPTION  | DWN. | DATE         | APP'D. |
|------|--|------|--------------|--------|
| V    | ADDED BROOKS 37H or T to NOTE 7 of 3/4" Meter Service Inst'l.  | FD   | 10-28-88     | DLS    |
| U    | REV'D. NOTE 11 OF GENERAL NOTES (to conform to Note 1 of Hydrant Detail rev'd. 5-7-86)   | FD   | 2-29-88      | DLS    |
| T    | • REV'D. METER BOX ON 1 1/2" & 2" SERVICE (No. 6) and Note 4<br>• ADDED "OR EQUAL" TO 3/4" METER BOX (No. 7) ..... also Rev'd. Note 13 of Gen. Notes | FD   | 12-9-87      | DLS    |
| R    | ADDED NOTE 13 TO GENERAL NOTES   | FD   | Jan. 15, '87 | DLS    |
| S    | 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. 9, '82  | MS     |
| E    | ADDED NOTE 9 TO GENERAL NOTES  | FD   | May 12, '82  | JK     |
| D    | ADDED NOTE 8 TO GENERAL NOTES  | FD   | Feb. 9, '82  | DLS    |
| C    | Elim. note 3, Restoration... Added note ref. 1 1/2" & 2" Meters  | FD   | Nov. 24, '81 | PJB    |
| B    | ADDED NOTE 7 TO GENERAL NOTES  | FD   | NOV. 6, '81  | PJB    |
| A    | ADDED NOTE 5 TO FIRE HYDRANT DETAIL  | FD   | NOV. 2, '81  | PJB    |

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

**STANDARD WATER DETAILS**

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

HDEV-487

**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.

FIRST STEP 14" MIN TO 18" MAX PRECAST CONCRETE MANHOLE RINGS - MINIMUM 2 COURSES REQUIRED - PLASTER INSIDE FACING WITH GROUT 1/2" THICK

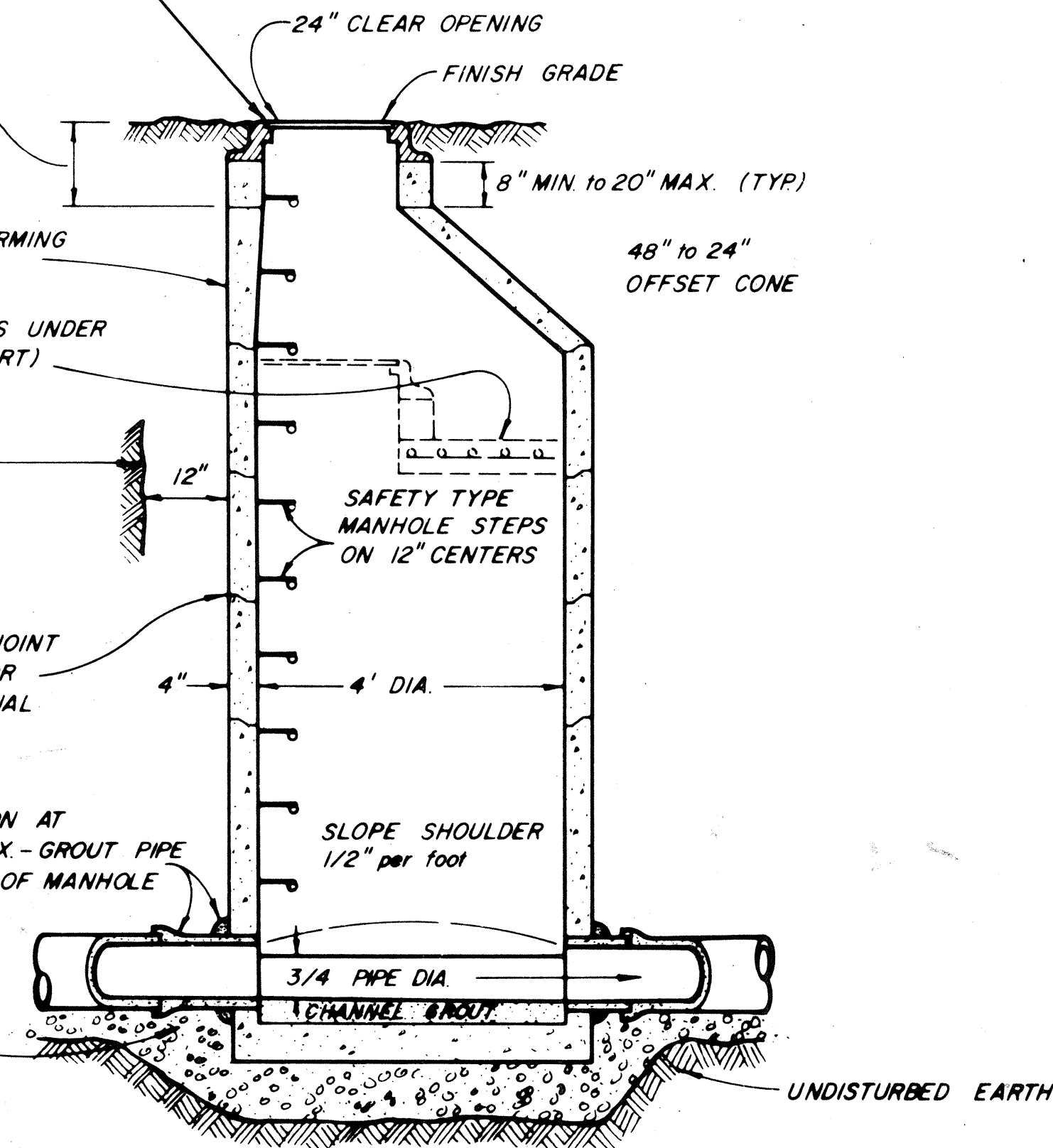
PRECAST MANHOLE SECTIONS CONFORMING TO APWA SPECIFICATIONS 63-2.09 B

PRECAST FLAT SLAB FOR MANHOLES UNDER 5' IN HEIGHT (FINISH GRADE TO INVERT) APWA STANDARD PLAN NO. 41

PAYMENT LIMIT LINE FOR BACKFILL AND RESTORATION ITEMS

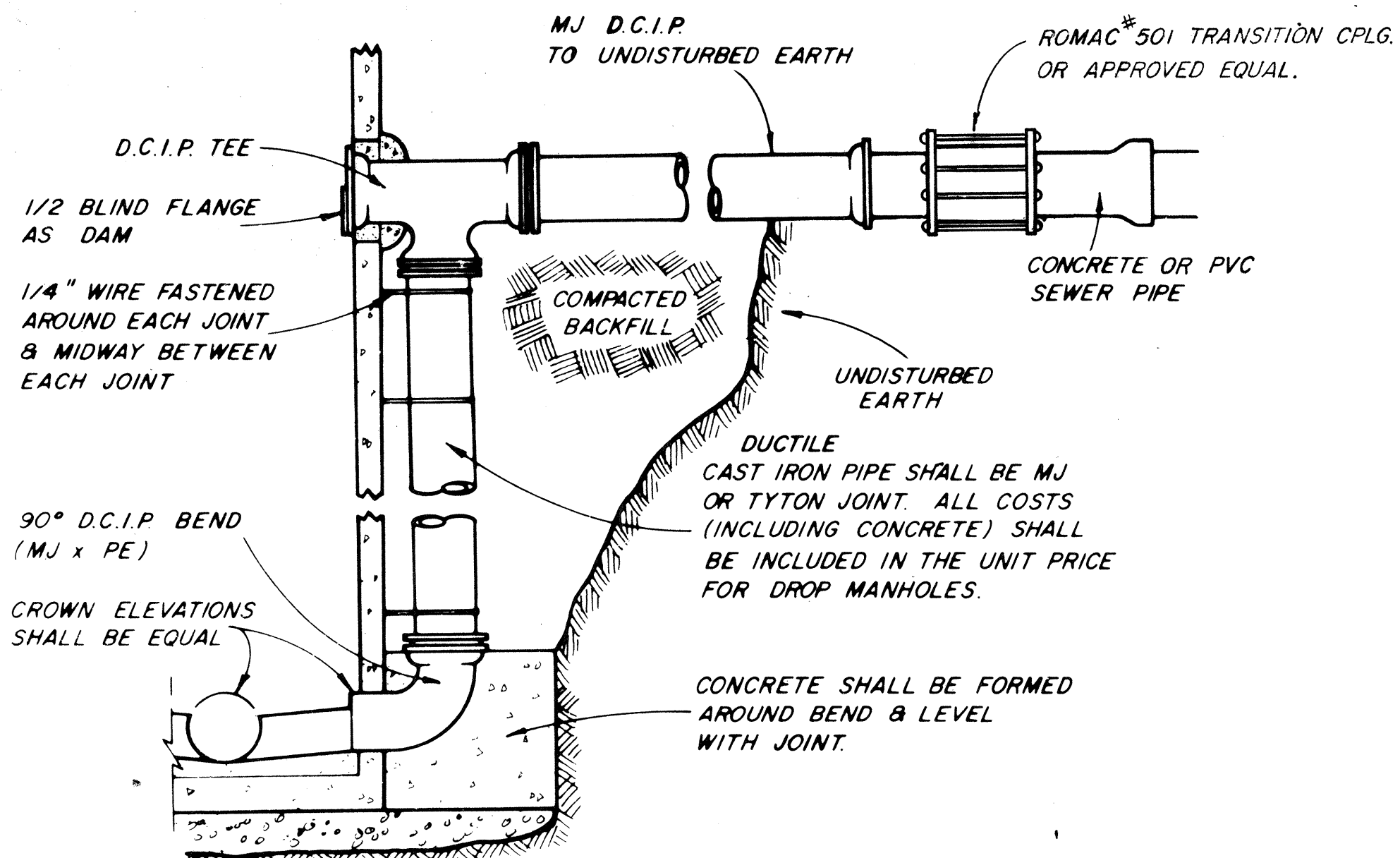
FULL MORTAR JOINT CONTINUOUS OR APPROVED EQUAL

BEDDING GRAVEL AS DIRECTED BY THE ENGINEER, COMPACTED FOR SEWER PIPE AT MANHOLE ENTRANCE AND EXIT

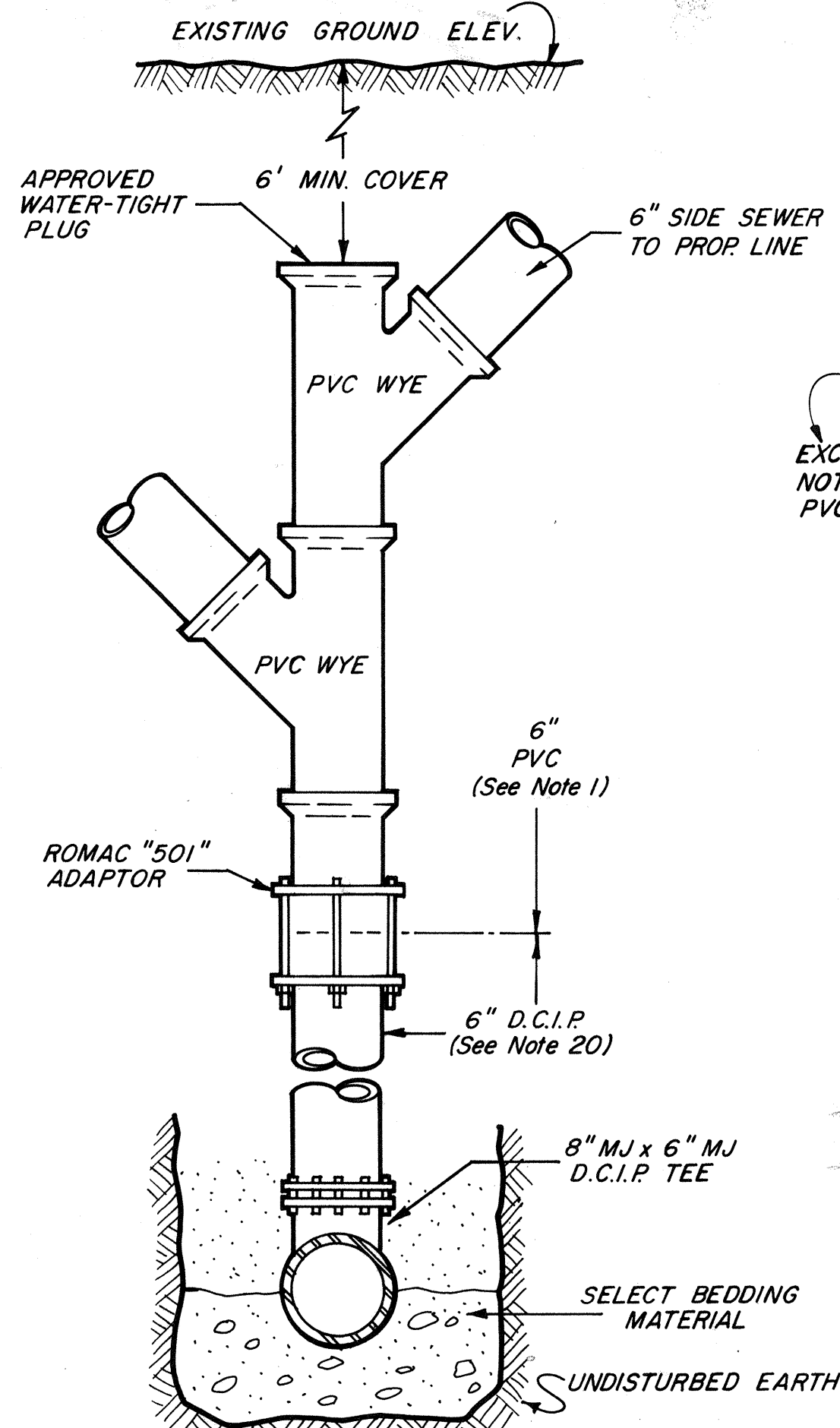


**SANITARY SEWER MANHOLE**

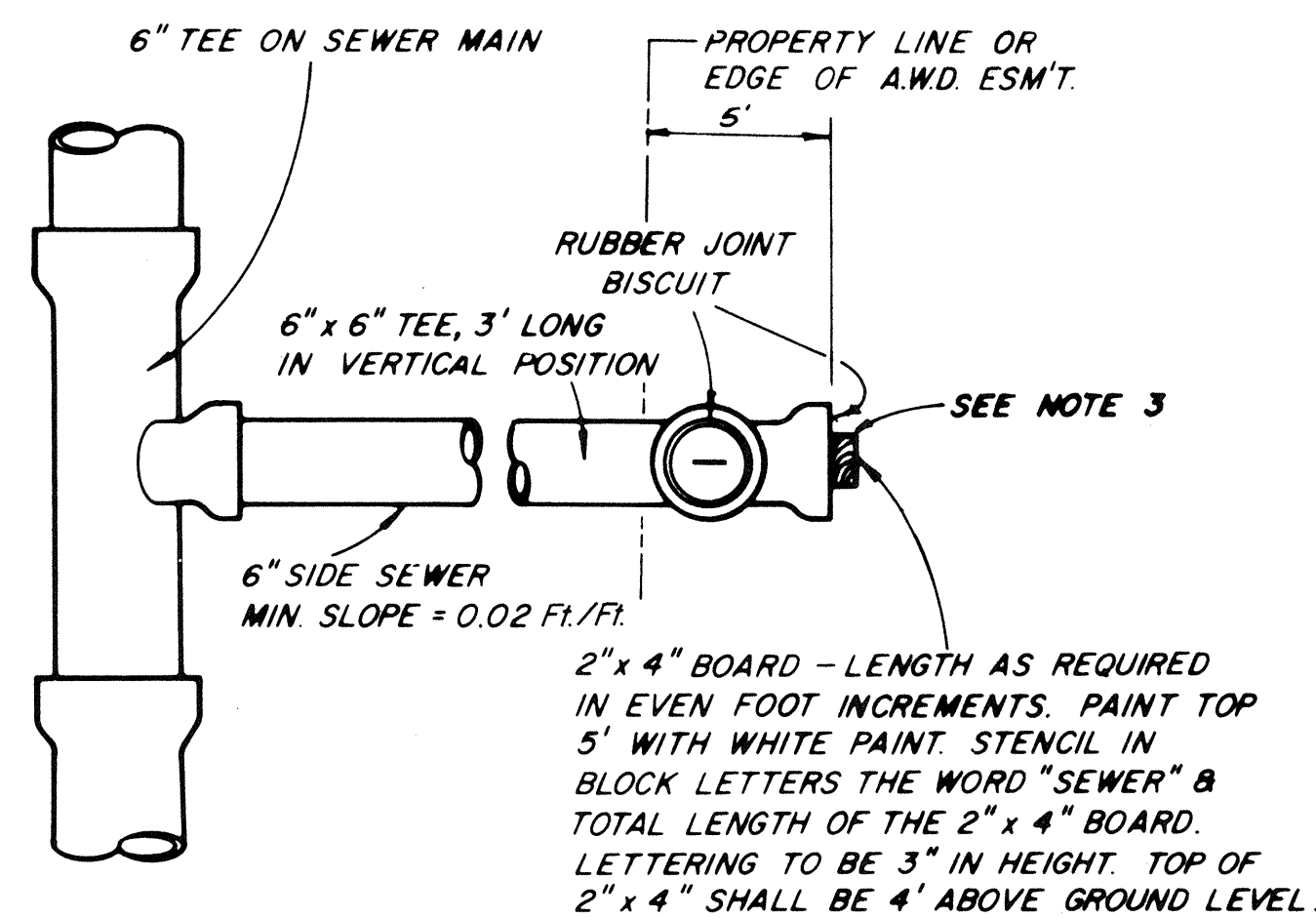
- NOTES:**
1. MANHOLE INSTALLATION SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS IN SEC 63.
  2. 1/2" x 4' DIA REMOVABLE PLYWOOD COVER SHALL BE PROVIDED FOR EACH MANHOLE TO BE INSTALLED AFTER TESTING & INSTALLATION HAS BEEN COMPLETED & SHALL REMAIN IN PLACE UNTIL ALL STREET WORK IN THE AREA HAS BEEN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



**DROP MANHOLE CONNECTION**

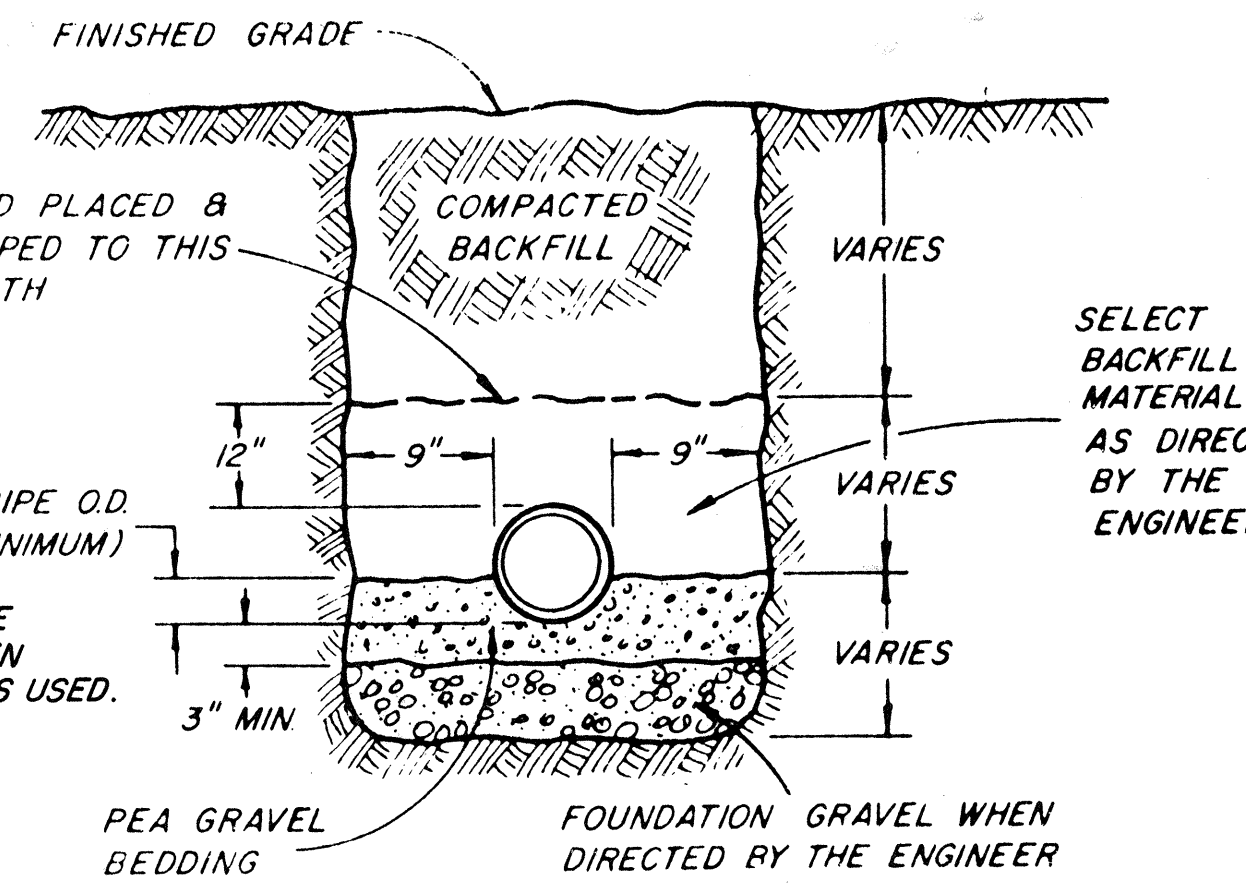


**DUCTILE CAST IRON PIPE STANDING SIDE SEWER**



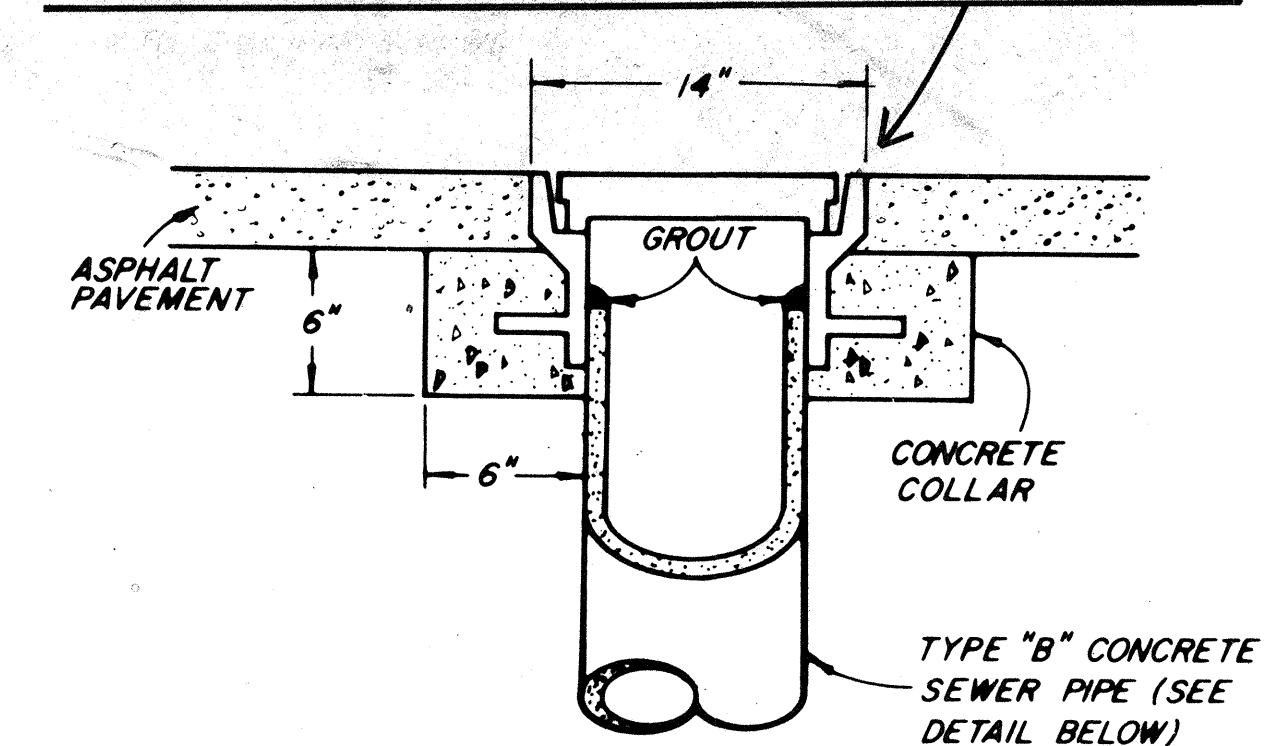
**SIDE SEWER CONNECTION**

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



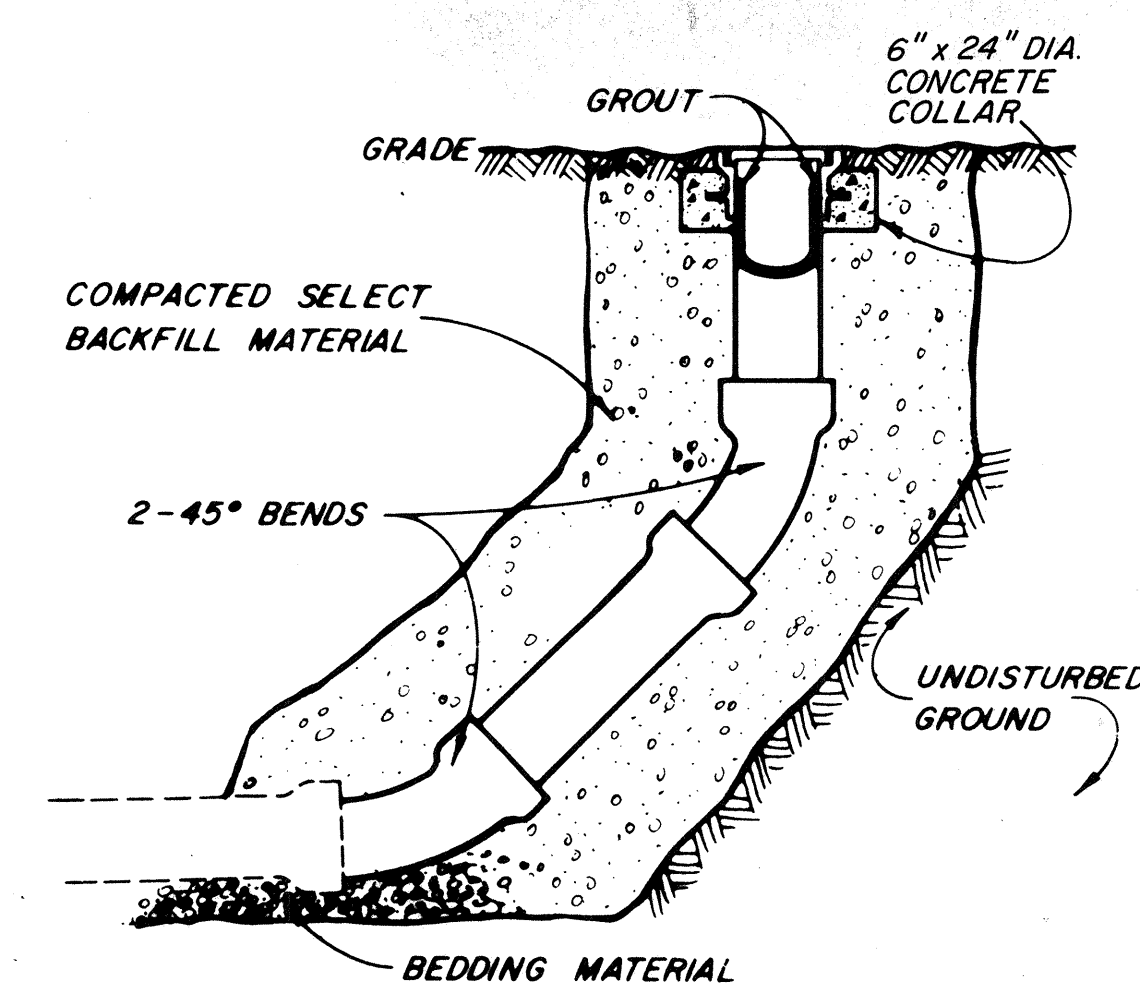
**TYPICAL TRENCH DETAIL**

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



**LAMPHOLE**

STREET USE



**LAMPHOLE**

EASEMENT USE

**GENERAL NOTES**

1. ASTM D 3033, D 3034 OR F 789 PVC PIPE MAY BE USED PROVIDED THAT:
  - (a) CONCRETE SEWER PIPE (CSP) OR DUCTILE CAST IRON PIPE (DCIP) IS NOT SHOWN ON PLANS.
  - (b) DEPTH DOES NOT EXCEED 16 FEET
  - (c) TOP OF BEDDING IS EXTENDED TO 4" ABOVE PIPE.
  - (d) CONNECTIONS TO MANHOLES ARE MADE WITH AC MANHOLE COUPLING.
  - (e) DEFLECTION TEST PER APWA SPEC. IS MADE 30 DAYS OR MORE AFTER BACKFILL.
2. TYPE OR CLASS OF PIPE SHALL NOT BE CHANGED BETWEEN MANHOLES OR LAMPHOLES.
3. INSTALLATION & TESTING OF SEWERS SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS - SECTION 61 & 62
4. ALL PIPE SHALL BE "RUBBER GASKET" CONCRETE SEWER PIPE CONFORMING TO ASTM SPECIFICATIONS - C 14 CLASS 3 - UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING REPAIRED ASPHALT & GRAVEL SURFACES UNTIL ACCEPTED BY THE COUNTY ENGINEER.
6. GRADES ESTABLISHED BY CONTOURS FURNISHED BY THE DEVELOPER. DEVELOPER SHALL BE RESPONSIBLE FOR ADJUSTING GRADES TO ACCOMMODATE FIELD CONDITIONS WHICH SHALL FIRST BE APPROVED BY THE ENGINEER.
7. ALL PERMITS FOR CONSTRUCTION SHALL BE ACQUIRED BY DEVELOPER
8. DEVELOPER SHALL BE RESPONSIBLE FOR ADJUSTING MANHOLE FRAMES & COVERS UPON COMPLETION OF FINAL LOT GRADES.
9. DEVELOPER SHALL CONTACT UTILITIES FOR EXACT LOCATIONS.
10. ALL 6" SIDE SEWERS INCLUDING TEES SHALL END WITH A 6" VERTICAL INSPECTION TEE, 3 FT. MIN LENGTH EXCEPT AS NOTED IN NOTE 3 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 CHANNLED, MAINS FLUSHED AND WATER RUN IN LINE WHEN TELEVIEWED, ALL CONFORMING TO RESOLUTION SR 642-83.
18. MINIMUM OF 36" VERTICAL CLEARANCE & 10 FEET HORIZONTAL CLEARANCE REQUIRED BETWEEN SEWER & WATER LINES. IF UNABLE TO MEET, THEN CONSTRUCT PER SEC. 2.41 "D.O.E. CRITERIA FOR SEWAGE WORKS DESIGN" AND AMENDMENTS THERETO.
19. WHERE A NEW MANHOLE IS REQUIRED FOR CONSTRUCTION OVER AN EXISTING PVC SEWER MAIN A STANDARD MANHOLE SHALL BE USED AND CONNECTED TO EXISTING MAIN USING A.C. MANHOLE COUPLINGS.
20. UNLESS OTHERWISE NOTED, ALL D.C.I.P. SHALL BE A.W.W.A. C 151 CLASS 53

| REV. | DESCRIPTION   | DWN. | DATE     | APPD. |
|------|---|------|----------|-------|
| L    | Revised Manhole & Lampole 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   |

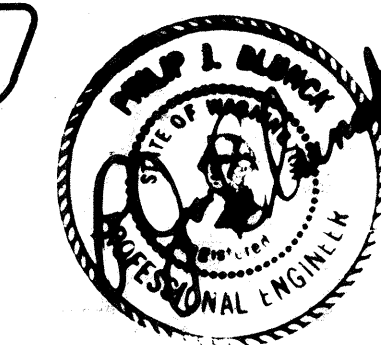
FOR DEVELOPER EXTENSIONS

**ALDERWOOD WATER DISTRICT**  
3020 - 156th ST. S.W. Lynnwood, Wash.  
743 - 4605 98036

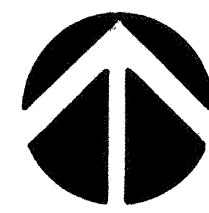
Water Ext. No.  
Sewer Ext. No.  
Scale: NOT TO SCALE

Drawn: FD  
Date: OCT. 1980  
Designed: PJB  
Approved: LOE  
Sheet: 1 of

**STANDARD SEWER DETAILS**



HDEV-488



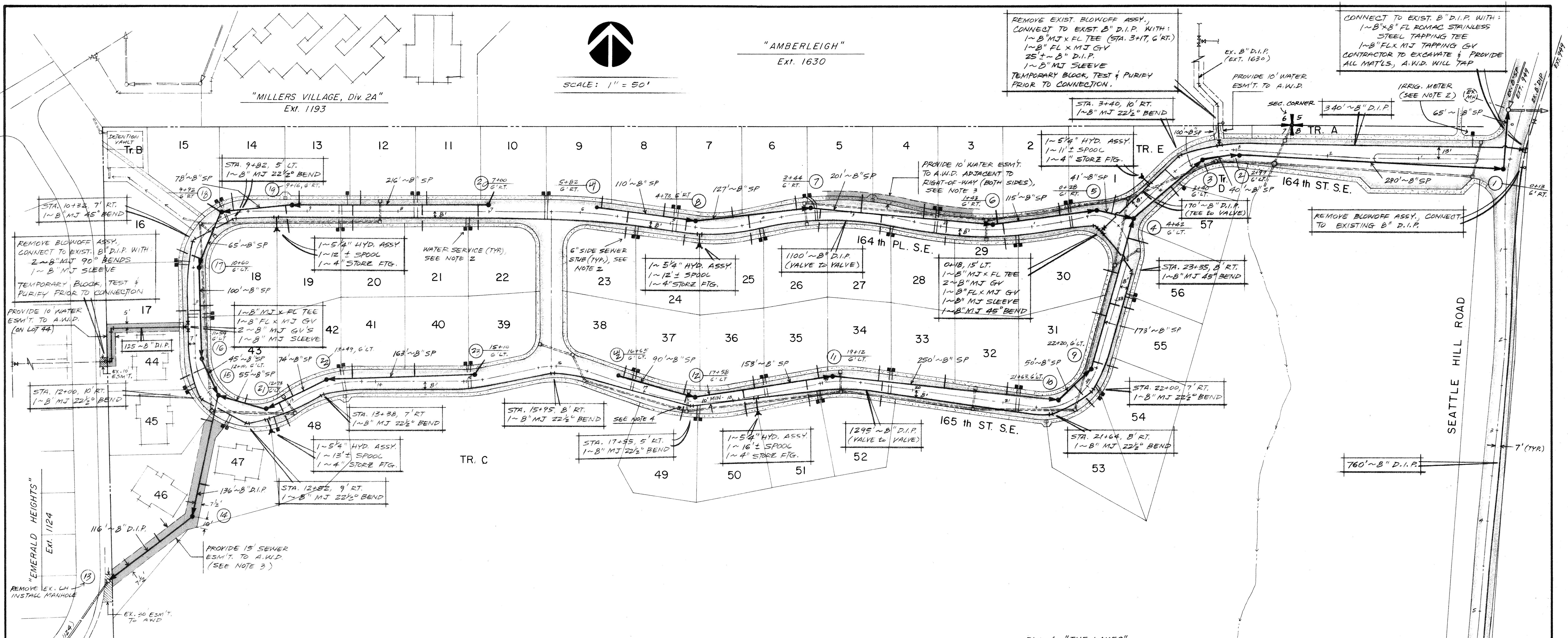
"AMBERLEIGH"  
Ext. 1630

SCALE: 1" = 50'

"MILLERS VILLAGE, Div. 2A"  
Ext. 1193

REMOVE EXIST. BLOWOFF ASSY.,  
CONNECT TO EXIST. 8" D.I.P. WITH:  
1-8" MJ X FL TEE (STA. 3+17, 6' RT.)  
1-8" FL X MJ GV  
25' ± 8" D.I.P.  
1-8" MJ SLEEVE  
TEMPORARY BLOCK, TEST & PURIFY  
PRIOR TO CONNECTION.

CONNECT TO EXIST. 8" D.I.P. WITH:  
1-8" X 8" FL ROMAC STAINLESS  
STEEL TAPPING TEE  
1-8" FL X MJ TAPPING GV  
CONTRACTOR TO EXCAVATE & PROVIDE  
ALL MAT'L'S, A.W.D. WILL TAP

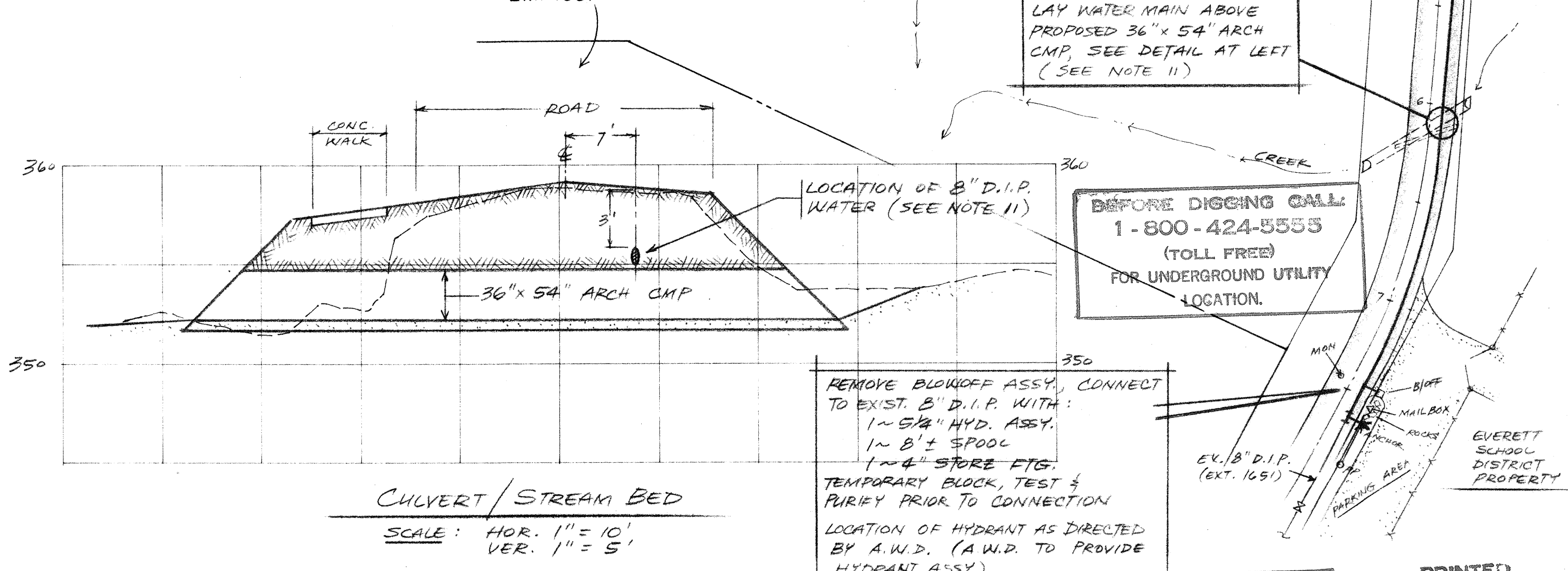


NOTES

- APPROX. STATIC WATER PRESSURE IS 75 TO 90 P.S.I. DEVELOPER IS RESPONSIBLE FOR INSTALLING PRESSURE REDUCING VALVES ON THE PRIVATE SIDE OF METER TO PROTECT FACILITY FROM HIGH PRESSURE.
- ALL METER (DOMESTIC & IRRIGATION) SIZES & LOCATIONS, AND SIDE SEWER LOCATIONS SHALL BE VERIFIED BY DEVELOPER/CONTRACTOR PRIOR TO INSTALLATION. LOT CORNERS & DRIVEWAYS SHALL BE VERIFIED. METERS ARE NOT ALLOWED IN DRIVEWAYS. IRRIGATION METER SHALL BE INSTALLED WITH AN APPROVED BACKFLOW DEVICE.
- EASEMENTS:
  - ALL EASEMENTS SHALL BE FREE FROM ANY ENCROACHMENTS, SUCH AS COVERED PARKING, OVERHANGS, FOUNDATIONS, ETC.
  - A 10' WATER ESM'T. SHALL BE PROVIDED TO A.W.D. ADJACENT TO RIGHT-OF-WAY ON ENTIRE PLAT ROADWAY (BOTH SIDES) TO ENCOMPASS METERS & HYDRANTS. A "NO-FENCING" CLAUSE TO BE INCLUDED.
  - SEWER & WATER MAIN ESM'T'S. SHALL BE BASED ON "AS-BUILT" CONDITIONS.
  - ALL EASEMENTS SHALL BE SHOWN ON FACE OF PLAT TO BE RECORDED.
- CONSTRUCT WATER MAIN DEEPER THAN STORM SEWER WHERE NECESSARY TO PROVIDE MIN. COVER AND/OR UNDISTURBED SOIL TO BLOCK AGAINST.
- DEVELOPER/CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES (VERTICALLY & HORIZONTALLY) WHETHER SHOWN ON PLANS OR NOT, PRIOR TO CONSTRUCTION.
- REFER TO ALDERWOOD WATER DISTRICT STANDARD DETAIL SHEETS FOR DETAILS, NOTES & SPECIFICATIONS FOR WATER & SEWER.
- SEWER & WATER DESIGN BASED ON HORIZONTAL & VERTICAL DATA ON CIVIL PLANS PROVIDED BY OSTERGAARD & ROBINSON ENGRS.
- ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE CLASS B3. ALL SIDE SEWERS OFF 8" D.I.P. SHALL BE D.I.P. TO PROPERTY LINE OR LIMITS OF EASEMENT.
- 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.
- MINIMUM ACCEPTABLE GRADE ON 8" MAINLINE SEWER IS 0.0050 FT./FT. MINIMUM ACCEPTABLE GRADE ON SIDE SEWER IS 0.0020 FT./FT.

11. DEVELOPER & HIS ENGINEER SHALL OBTAIN A HYDRAULICS PERMIT & ALL OTHER NECESSARY PERMITS & APPROVALS FOR CROSSING THE STREAM AND OR ENVIRONMENTALLY SENSITIVE AREAS. THE DEVELOPER SHALL PROVIDE THE NECESSARY APPROVED TEMPORARY EROSION CONTROL MEASURES FOR WORKING IN STREAM CORRIDOR.

Plot of: "THE LAKES"  
Ext. 1651



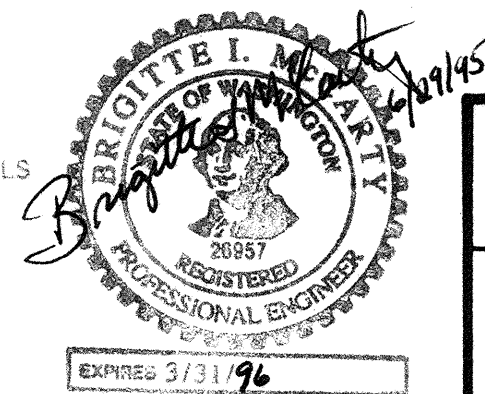
CULVERT / STREAM BED  
SCALE: HOR. 1" = 10'  
VER. 1" = 5'

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

REMOVE BLOWOFF ASSY., CONNECT  
TO EXIST. 8" D.I.P. WITH:  
1-8" MJ X FL TEE  
1-8" FL X MJ GV  
1-8" MJ SLEEVE  
TEMPORARY BLOCK, TEST & PURIFY  
PRIOR TO CONNECTION  
LOCATION OF HYDRANT AS DIRECTED  
BY A.W.D. (A.W.D. TO PROVIDE  
HYDRANT ASSY.).

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

PRINTED  
JUN 30 1995  
A.W.D.



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

WINSLOW

|                     |
|---------------------|
| EXT. NO. 1708       |
| Scale: 1" = 50'     |
| Drawn: FD           |
| Date: JUNE 29, 1995 |
| Designed: FD        |
| Approved: B/M       |
| Sheet: 1 of 3       |

NE 7 & NW 8 - 27-5

HDEV-484

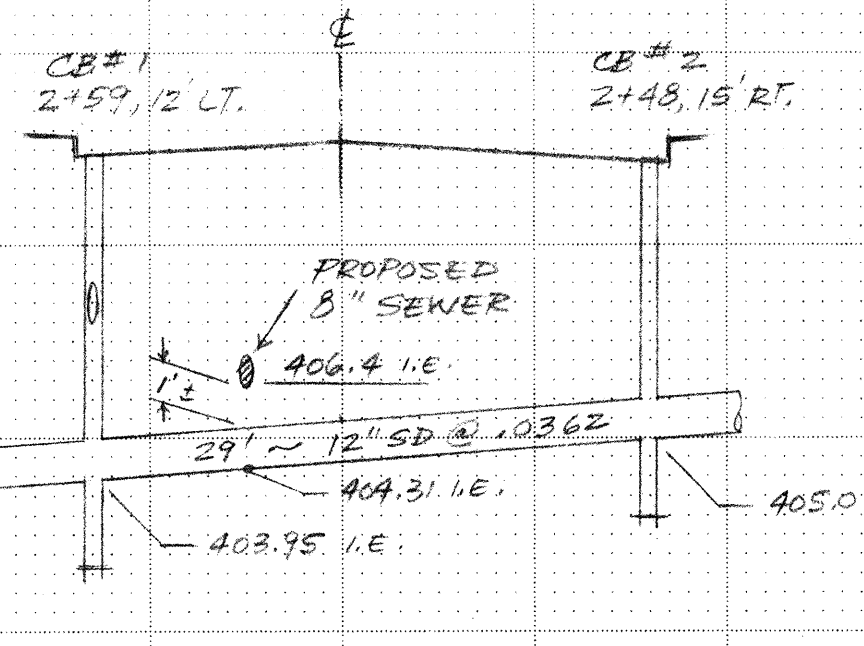
NOTE: FINISH GRADE ELEVATIONS SHOWN FOR EACH LOT ARE BASED ON 'GRADING PLAN' FURNISHED BY DEVELOPER.

165 th ST. S.E.

164 th ST. S.E.

SEATTLE HILL RD.

164 th PL. S.E.

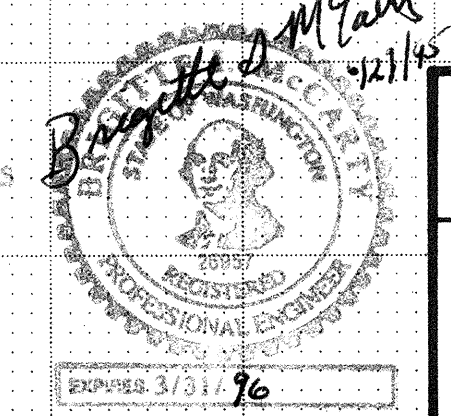


SECTION "A-A"

SCALE: HOR. 1" = 10'  
VER. 1" = 5'

VERIFY INVERT ELEVATION OF EXISTING MANHOLE #1 ACCORDINGLY. MINIMUM SLOPE ALLOWED IS 0.0050 FT./FT.

CONSTRUCT WATER AND SEWER FACILITIES PER ALDERWOOD WATER DISTRICT STANDARD DETAILS PER 1995 EDITION.



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

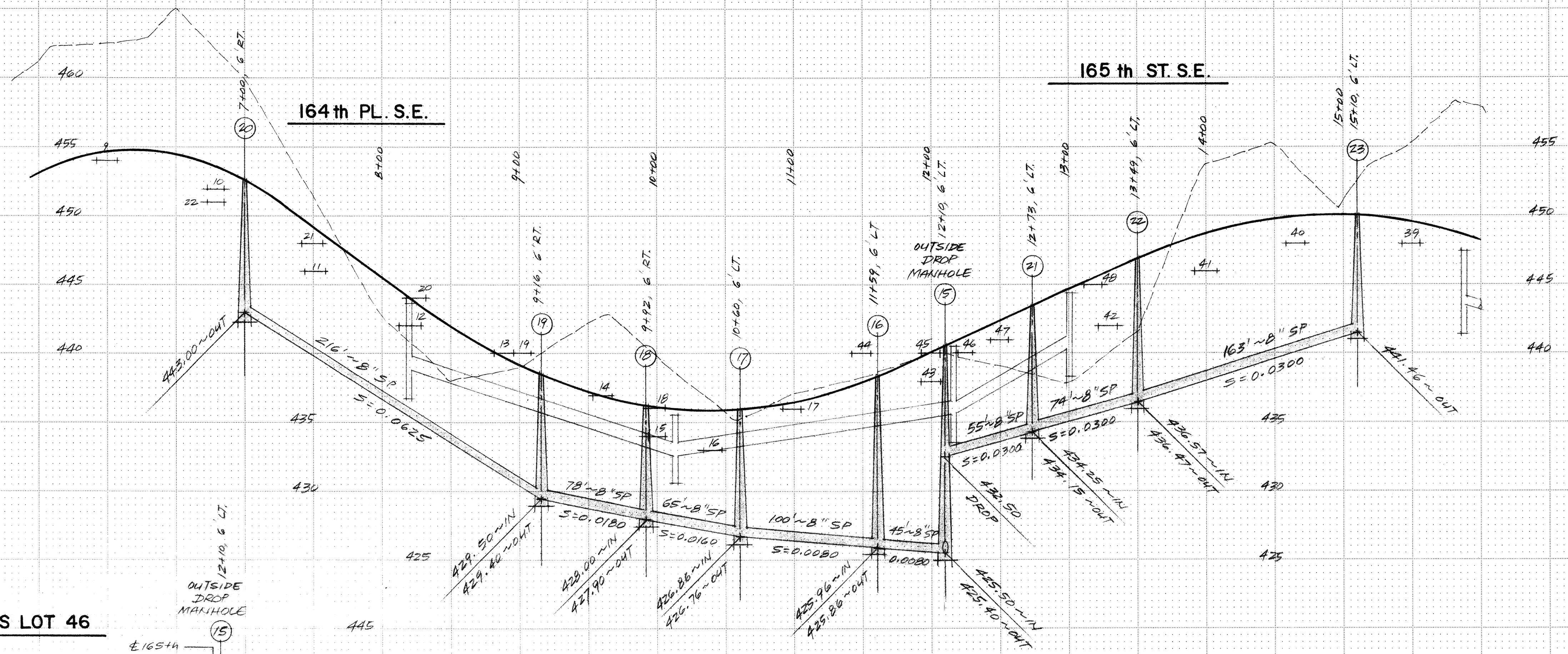
EXT. NO. 1708

|          |                        |
|----------|------------------------|
| Scale:   | Hor. 1"=50, Ver. 1"=5' |
| Drawn    | FD                     |
| Date     | JUNE 29, 1995          |
| Designed | FD                     |
| Approved | BIM                    |
| Sheet    | 2 of 3                 |

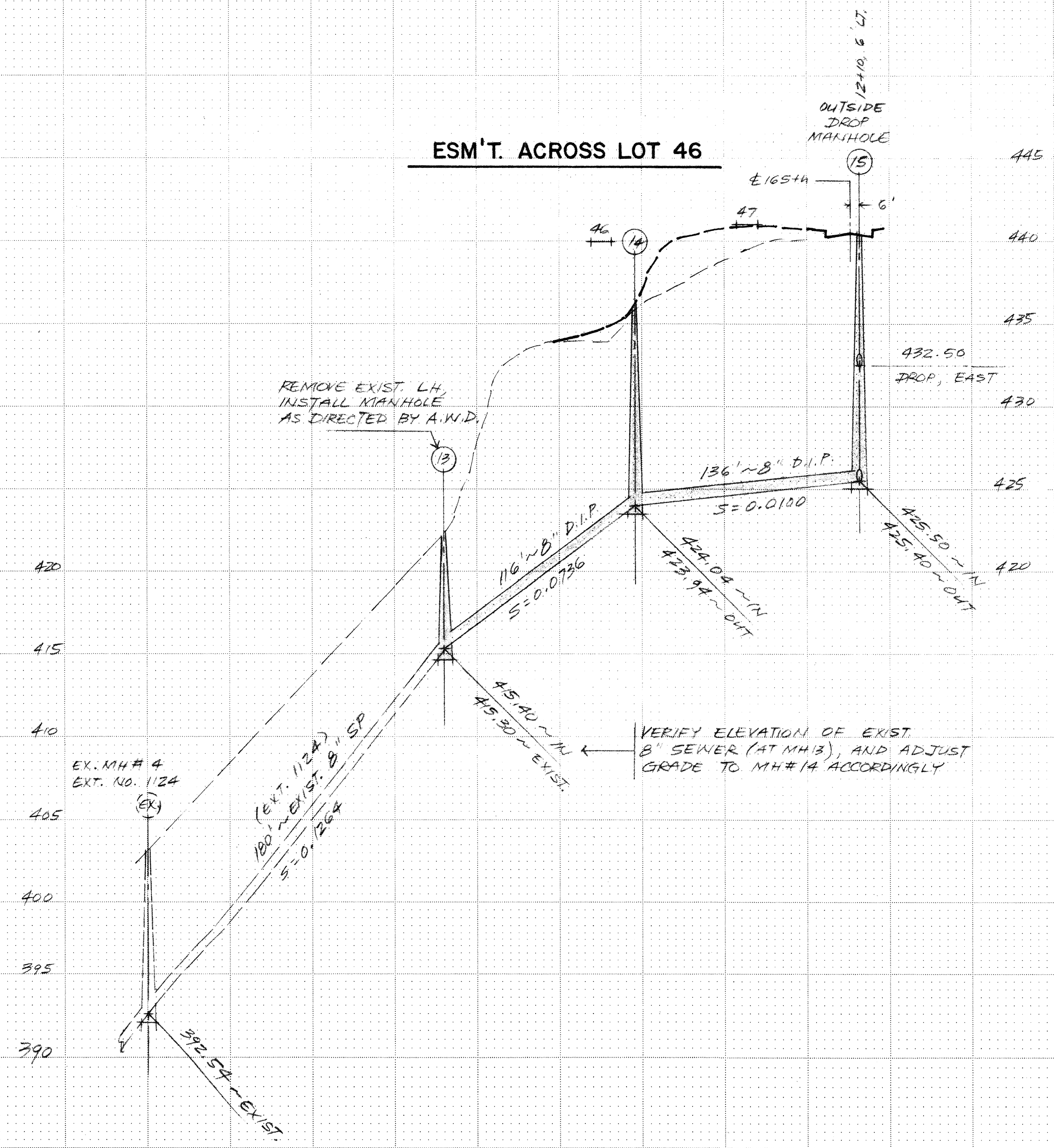
WINSLOW

HDEV-485



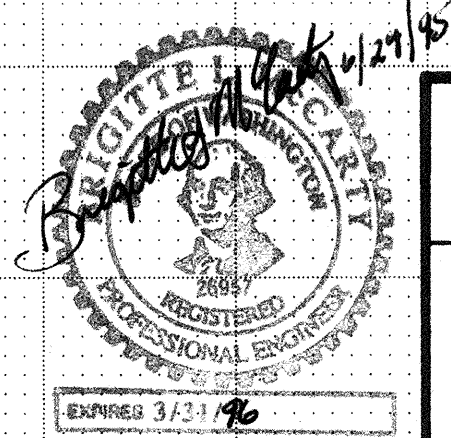


**ESM'T. ACROSS LOT 46**



NOTE: FINISH GRADE ELEVATIONS SHOWN FOR EACH LOT ARE BASED ON GRADING PLAN PROVIDED BY DEVELOPER.

CONSTRUCT WATER AND SEWER FACILITIES FOR ALDERWOOD WATER DISTRICT STANDARD DETAILS AND BY ORDINANCE



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

**WINSLOW**

|                                     |               |
|-------------------------------------|---------------|
| <b>EXT. NO. 1708</b>                |               |
| Scale: Hor. 1" = 50', Vert. 1" = 5' |               |
| Drawn                               | FD            |
| Date                                | JUNE 29, 1995 |
| Designed                            | FD            |
| Approved                            | BIM           |
| Sheet                               | 3 of 3        |

HDEV-486