

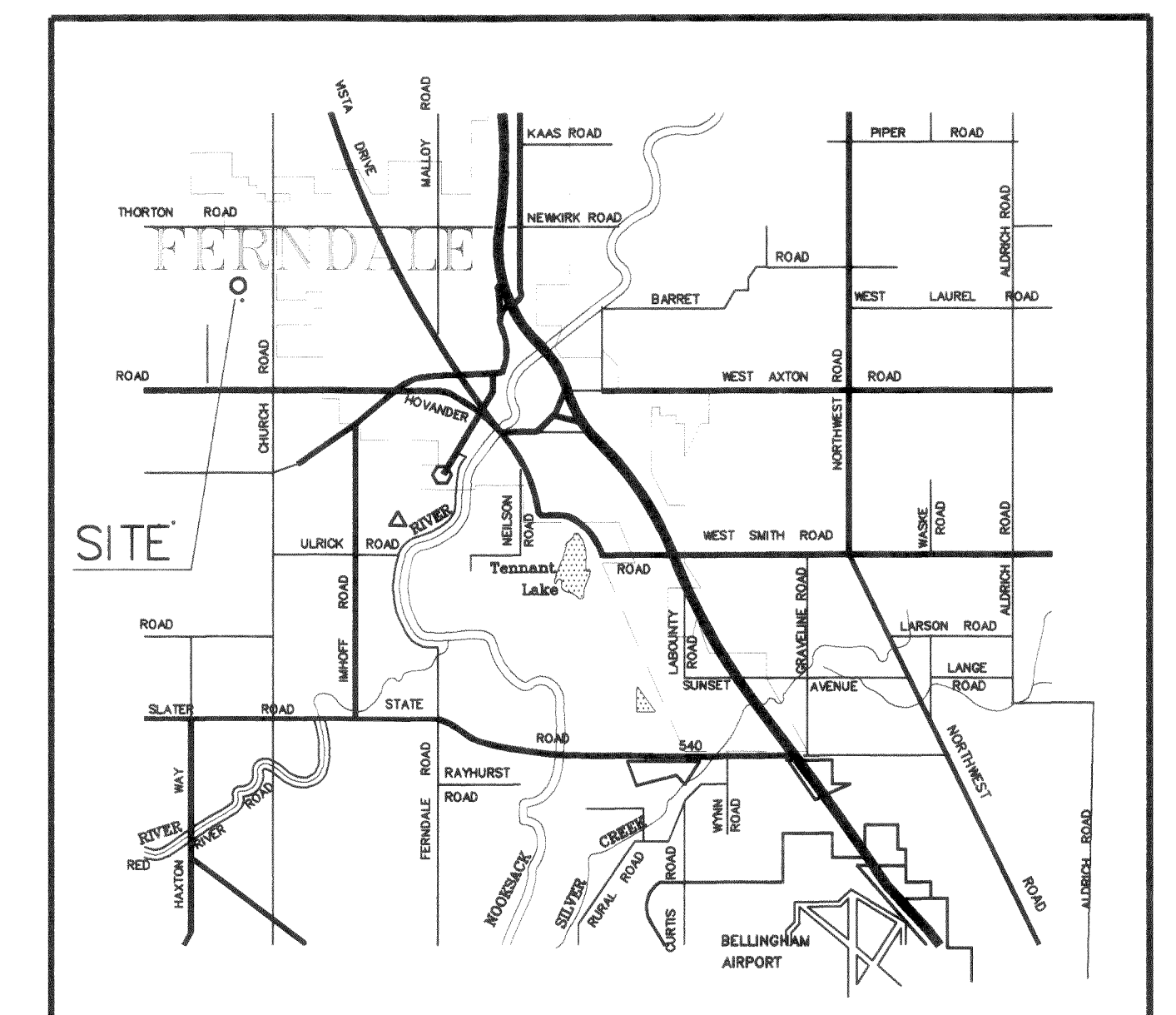
## SECTION 24, T 39 N, R 1 E

AYERS PROFESSIONAL GROUP, INC.

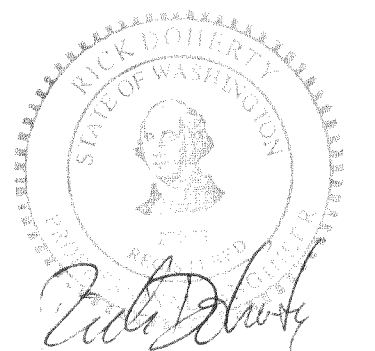
1. COVER SHEET - TITLE, VICINITY, NOTES, LEGEND AND SHEET INDEX
2. GRADING AND ROADWAY STAKING PLAN
3. ROADWAY AND DRAINAGE PLAN - LAKERIDGE DRIVE
4. ROADWAY AND DRAINAGE PLAN - PONDEROSA AND BIRDSEYE COURTS
5. ROADWAY AND DRAINAGE PLAN - FOXTAIL AND BAY PINE COURTS
6. ROADWAY AND DRAINAGE PLAN - CHURCH ROAD
7. SANITARY SEWER AND WATER PLAN - LAKERIDGE DRIVE
8. SANITARY SEWER AND WATER PLAN - PONDEROSA AND BIRDSEYE COURTS
9. SANITARY SEWER AND WATER PLAN - FOXTAIL AND BAY PINE COURTS
10. SANITARY SEWER AND STORM UTILITIES ALONG LAKE - LINE "A" AND LINE "B"
11. SANITARY SEWER PLAN - CHURCH ROAD
12. SANITARY SEWER - OFF-SITE IMPROVEMENTS - HILLTOP ROAD
13. LAKE SPILLWAY AND RESTORATION - NUBGAARD RESERVOIR IMPROVEMENTS
14. DETAILS - ROADWAY
15. DETAILS - STORM DRAINAGE
16. DETAILS - WATER
17. DETAILS - SANITARY SEWER

WARNING! UTILITIES IN AREA.  
CALL UTILITY LOCATORS PRIOR  
TO ANY EXCAVATION.

## FENCE



VICINITY MAP  
N.T.S.



1. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION.
2. ALL WORK SHALL CONFORM TO THE STANDARD PLANS AND SPECIFICATIONS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), 1991, AND CITY OF FERNDALE STANDARDS UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
3. UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE AREA OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY OWNERS FOR LOCATIONS AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, IRRIGATION, AND STREET LIGHTING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT.
6. CONTRACTOR IS RESPONSIBLE TO CONFORM TO ANY CONDITIONS OF THE SHORELINES PERMIT AND HYDRAULIC PERMIT ON FILE WITH THE CITY AND THE OWNER.

**RECORD DRAWING**

C:\DWG\2099RD1B 01/11/96 10:30



1911 "C" STREET  
BELLINGHAM, WA 98225  
PHONE: (360) 671-8200  
COUNTY: (360) 354-3723  
FAX: (360) 738-9367

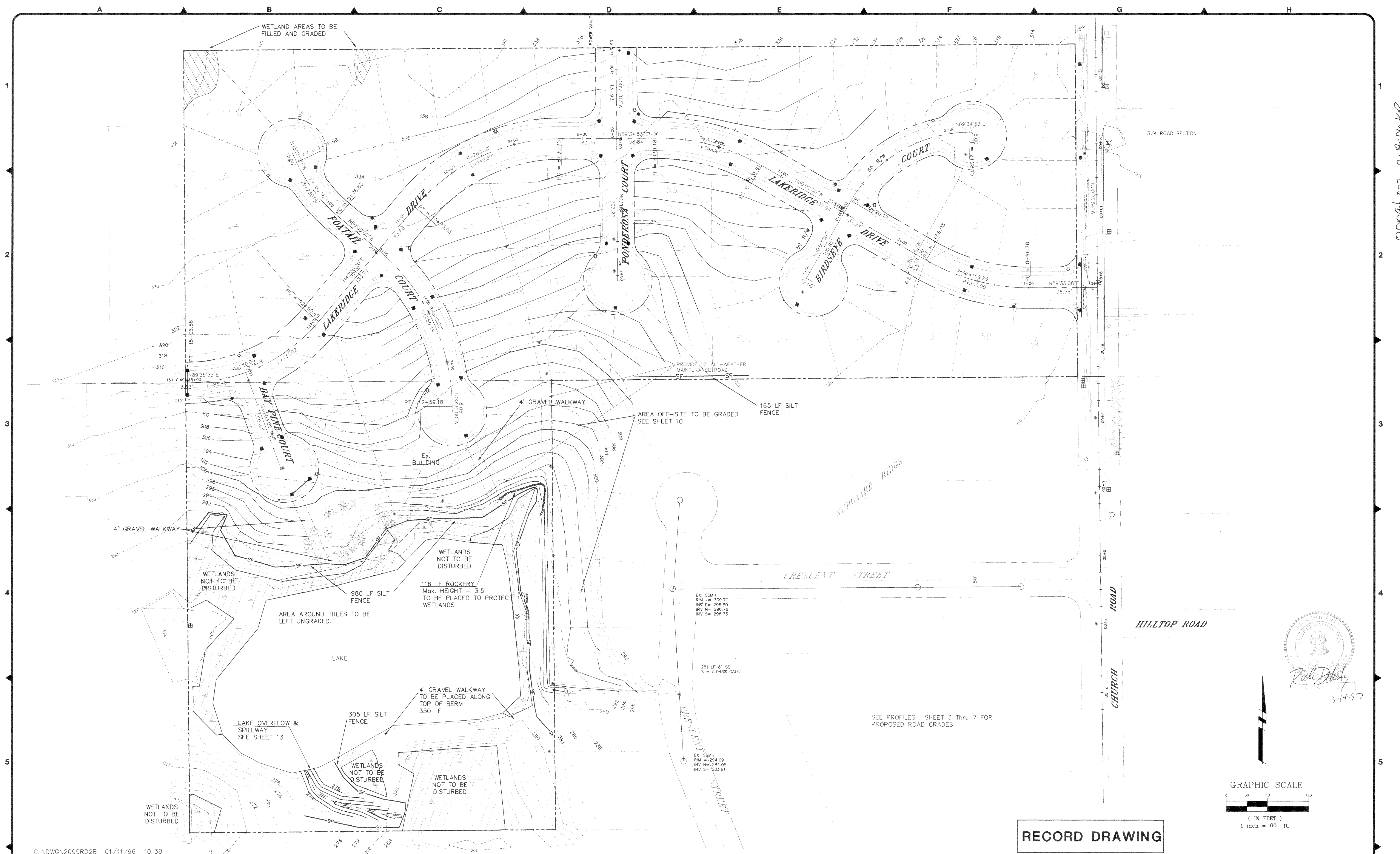
**Ayers Professional Group, Inc.**

|             |     |      |         |
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| DESIGNED BY | KLS | DATE | 09/12/9 |
| DRAWN BY    | KLS | DATE | 09/12/9 |
| CHECKED BY  |     | DATE |         |

LAKE RIDGE ESTATES  
CIVIL IMPROVEMENTS  
TITLE, VICINITY, AND LOCATION MAPS, LEGEND, NOTES, AND SHEET INDEX

|          |       |
|----------|-------|
| DATE     | SHEET |
| 08/15/95 | 1     |
| SCALE:   | OF    |
| AS NOTED | 17    |
| JOB NO.  |       |
| 92099D   |       |





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| 1 | RECORD DRAWINGS | RFF | 09/95 |
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1911 "C" STREET  
BELLINGHAM, WA 98225  
PHONE: (360) 671-8200  
COUNTY: (360) 354-3723  
FAX: (360) 738-6367

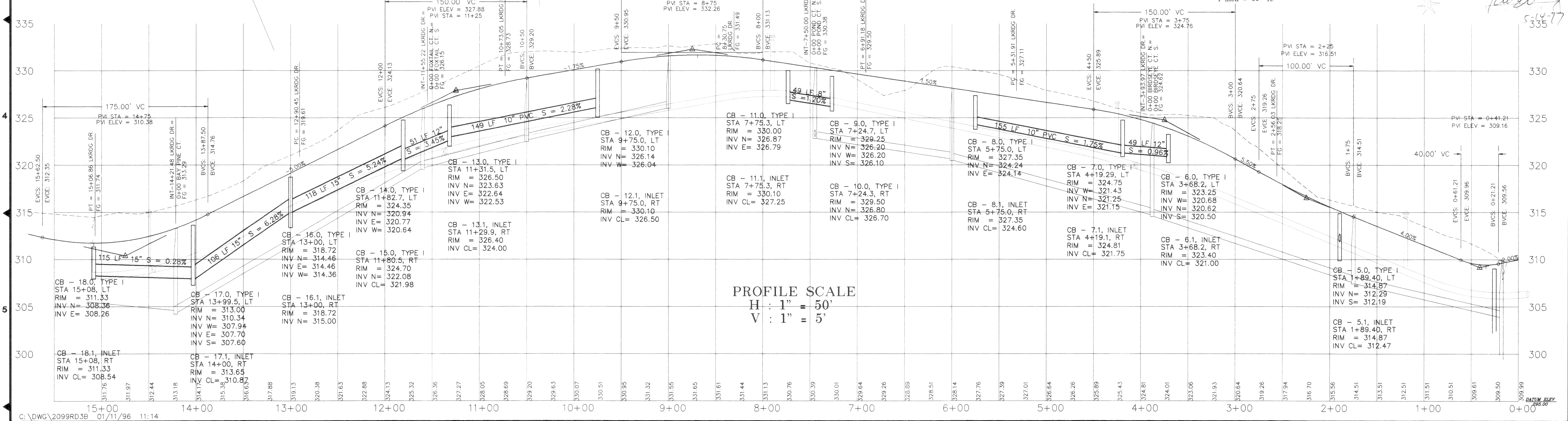
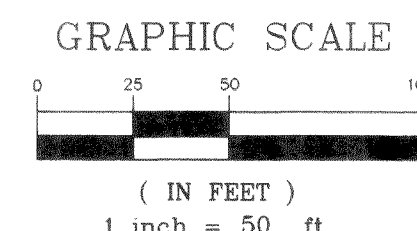
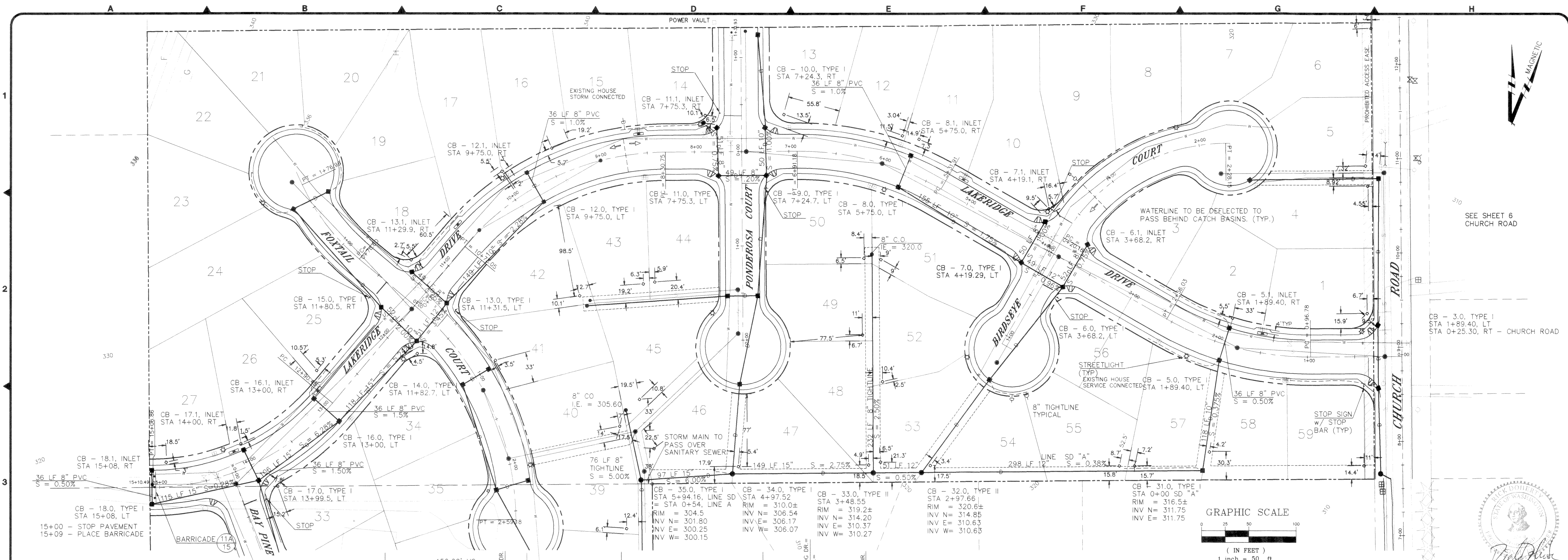
**Ayers Professional Group, Inc.**

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| DESIGNED BY | DATE |
| DRAWN BY    | DATE |
| CHECKED BY  | DATE |

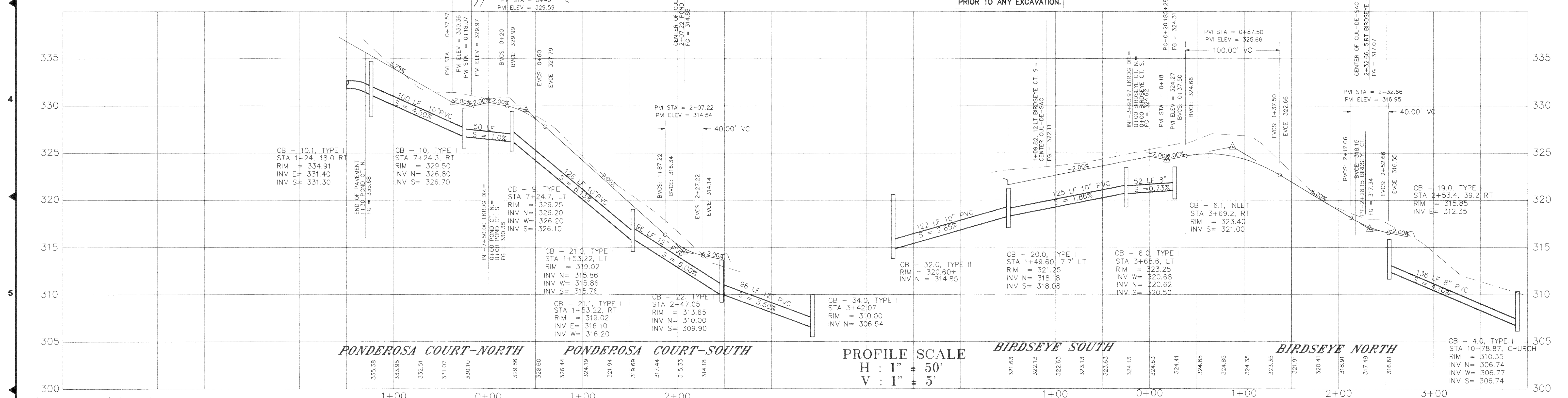
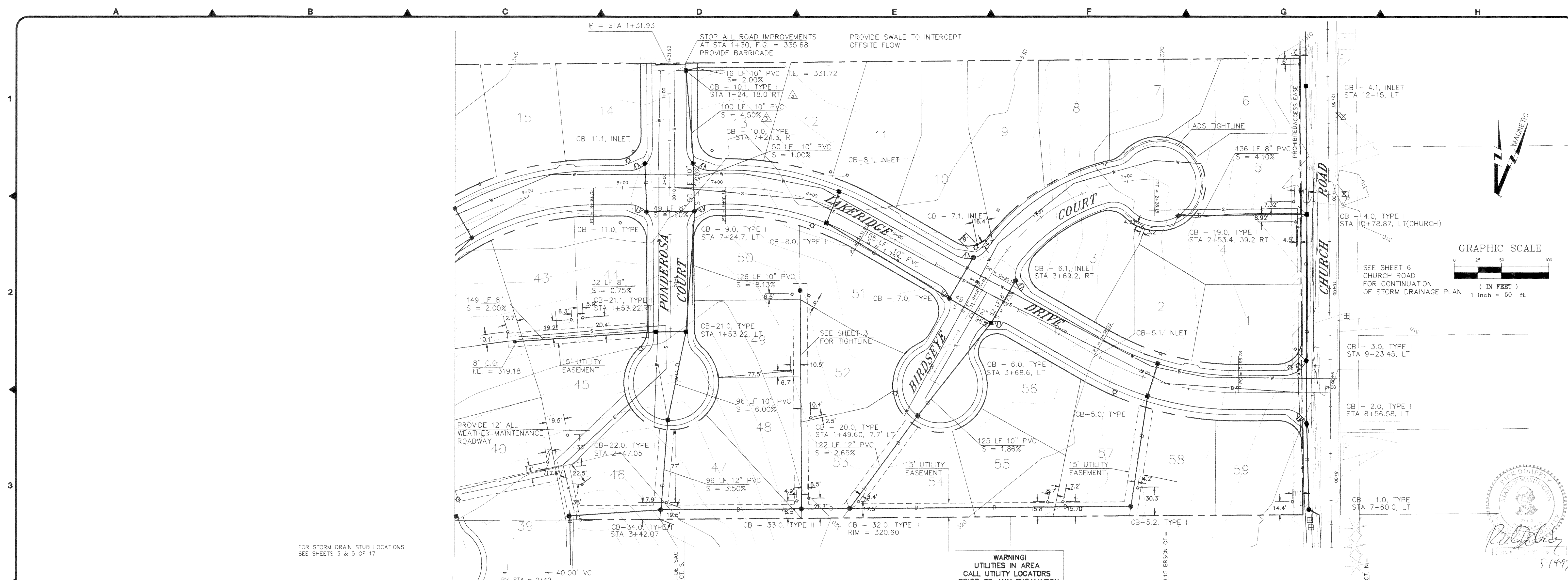
**LAKERIDGE ESTATES**  
GRADING & ROADWAY STAKING PLAN

|          |       |
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| DATE     | SHEET |
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| 1" = 60' | 17    |
| JOB NO.  |       |
| 92099D   |       |

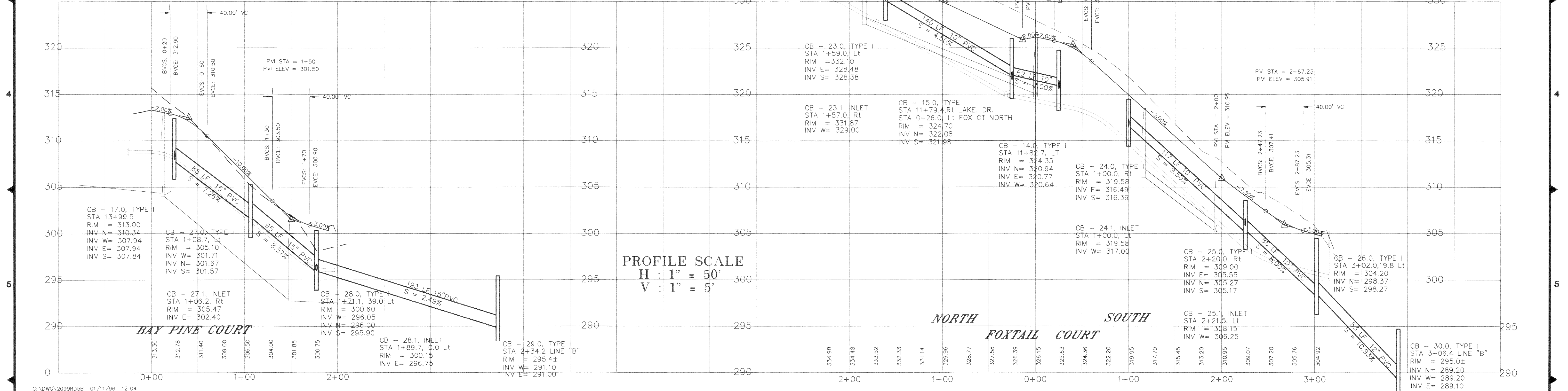
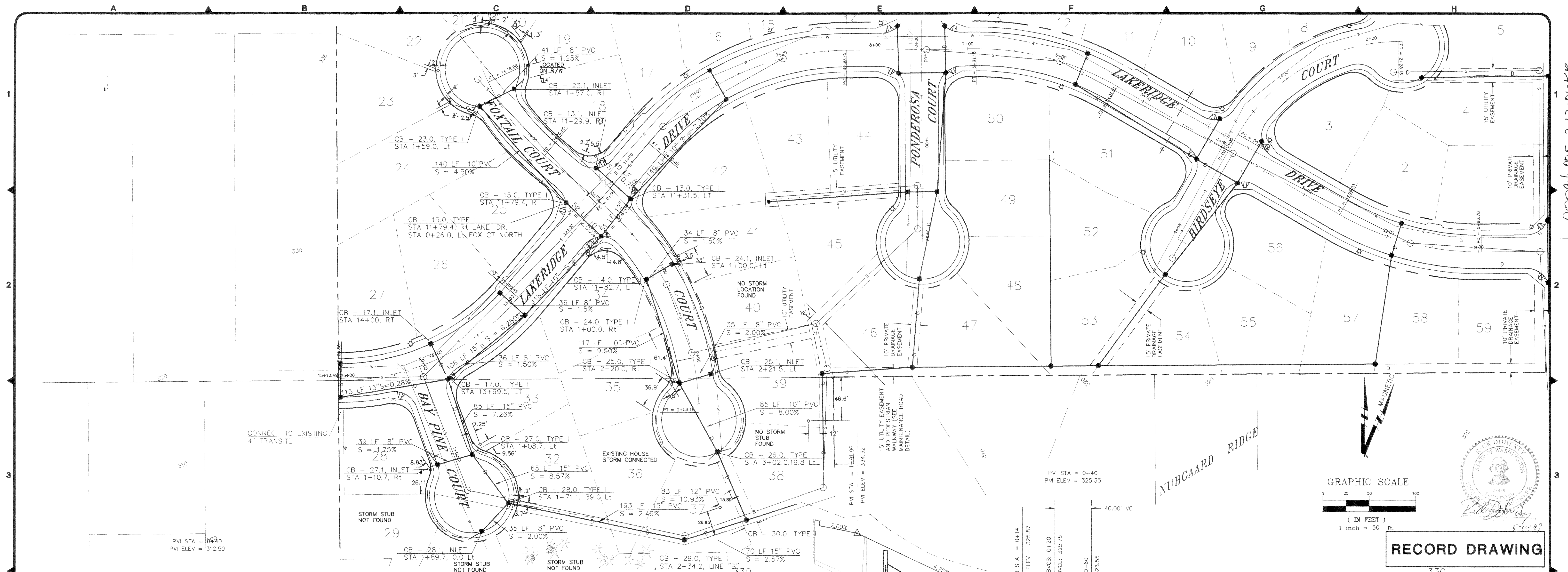




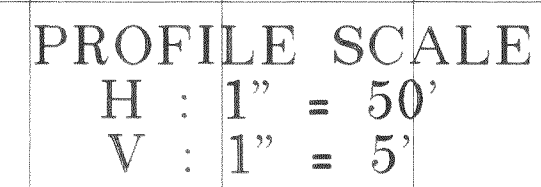
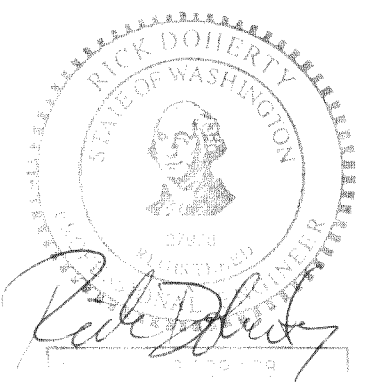
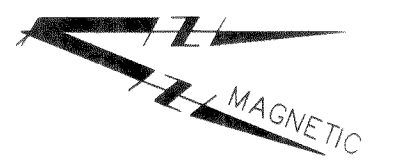
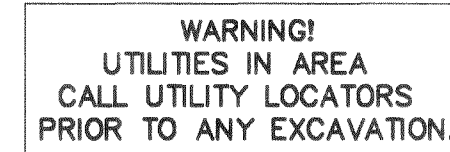












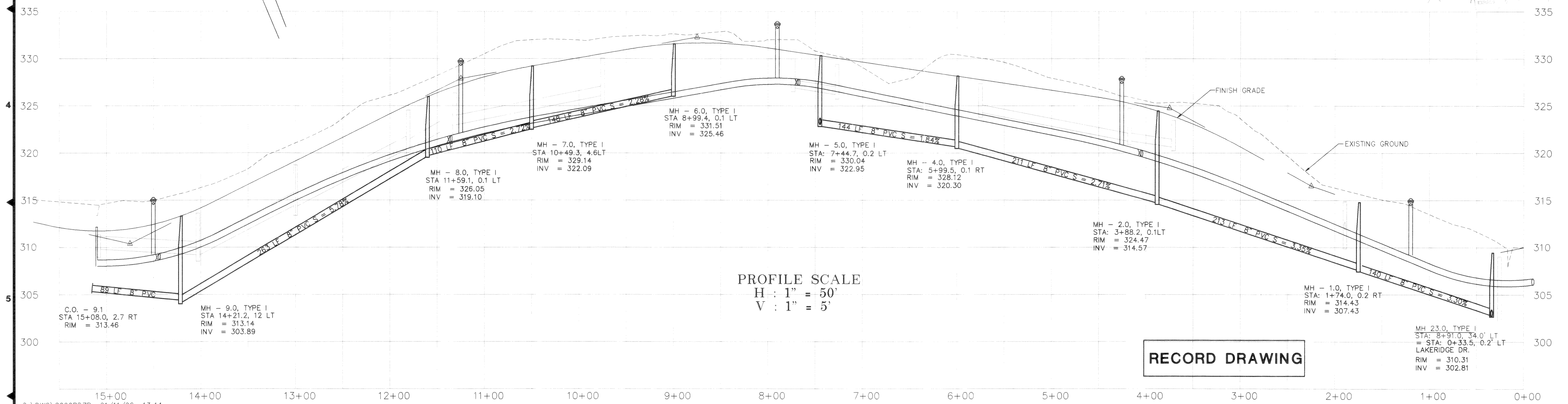
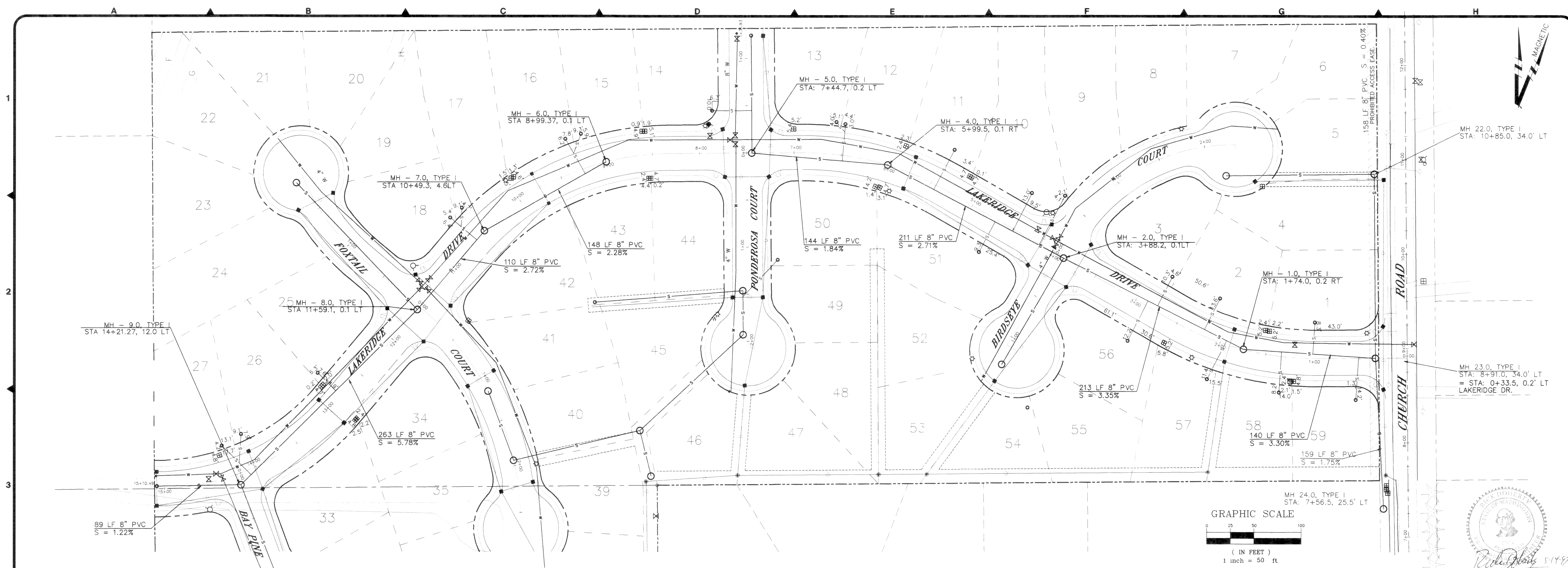
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| 1" = 5' V.  |       |
| JOB NO.     | 17    |
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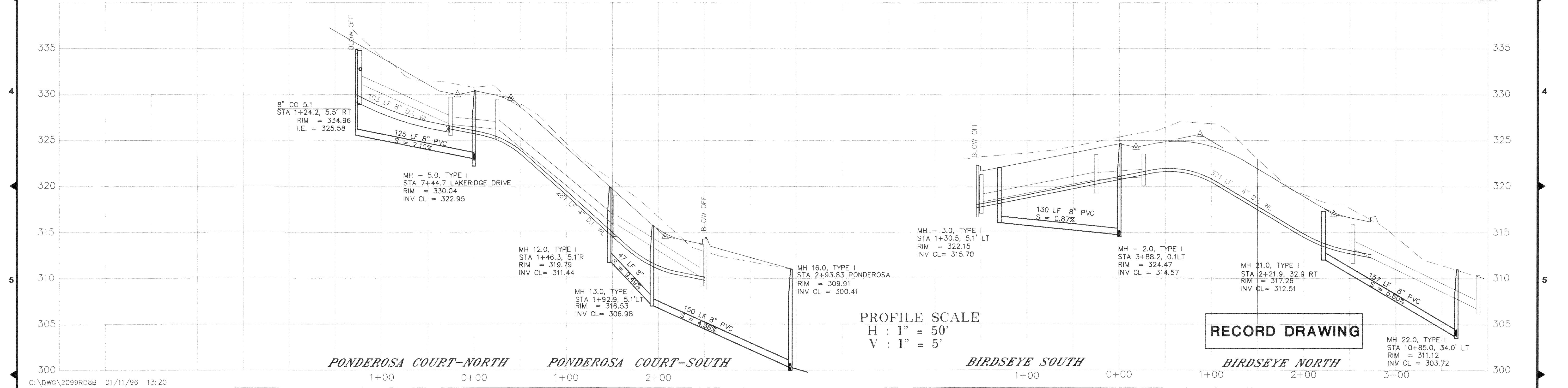
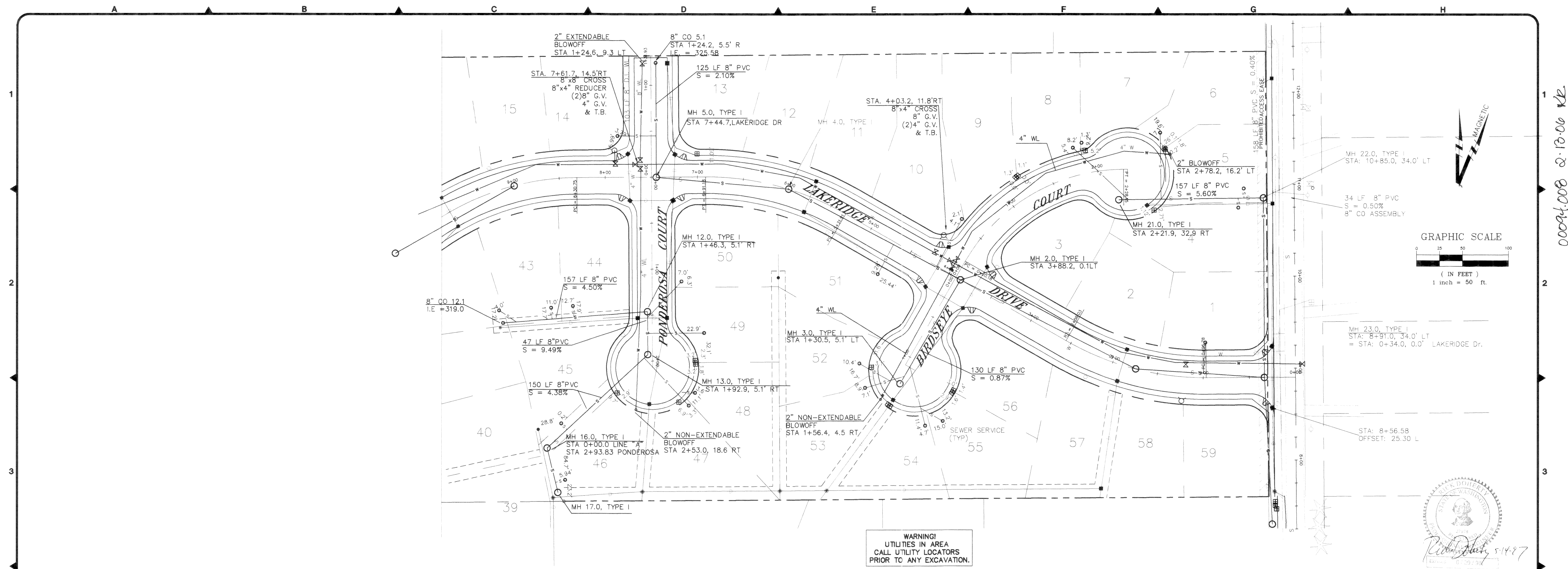


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|---|-----------------|-----|-------|

**PG** 1911 "C" STREET  
BELLINGHAM, WA 98225  
PHONE: (360) 671-8200  
COUNTY: (360) 354-3723  
FAX: (360) 736-9367  
**Ayers Professional Group, Inc.**

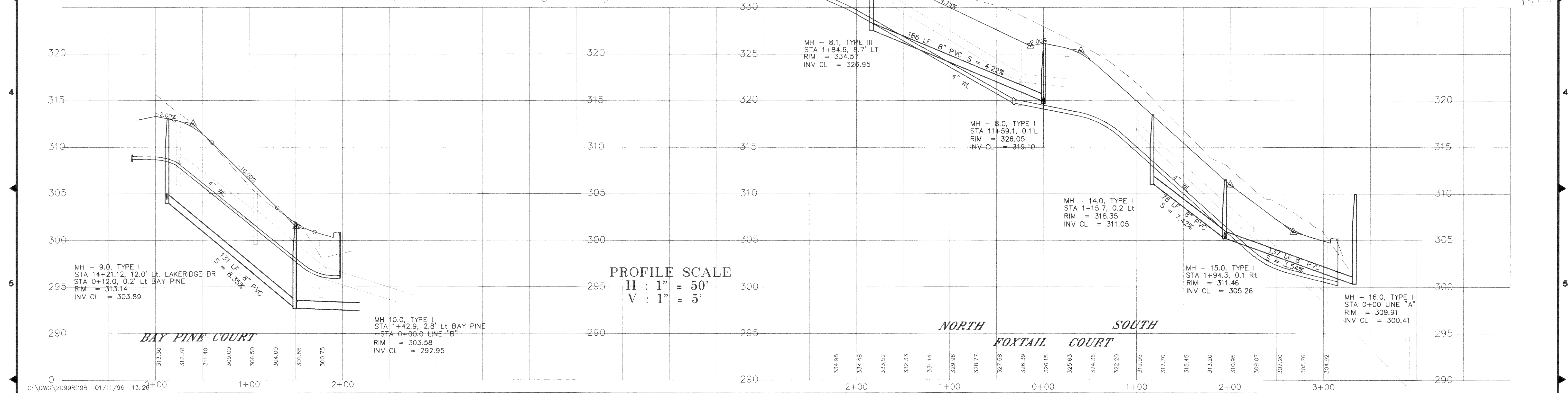
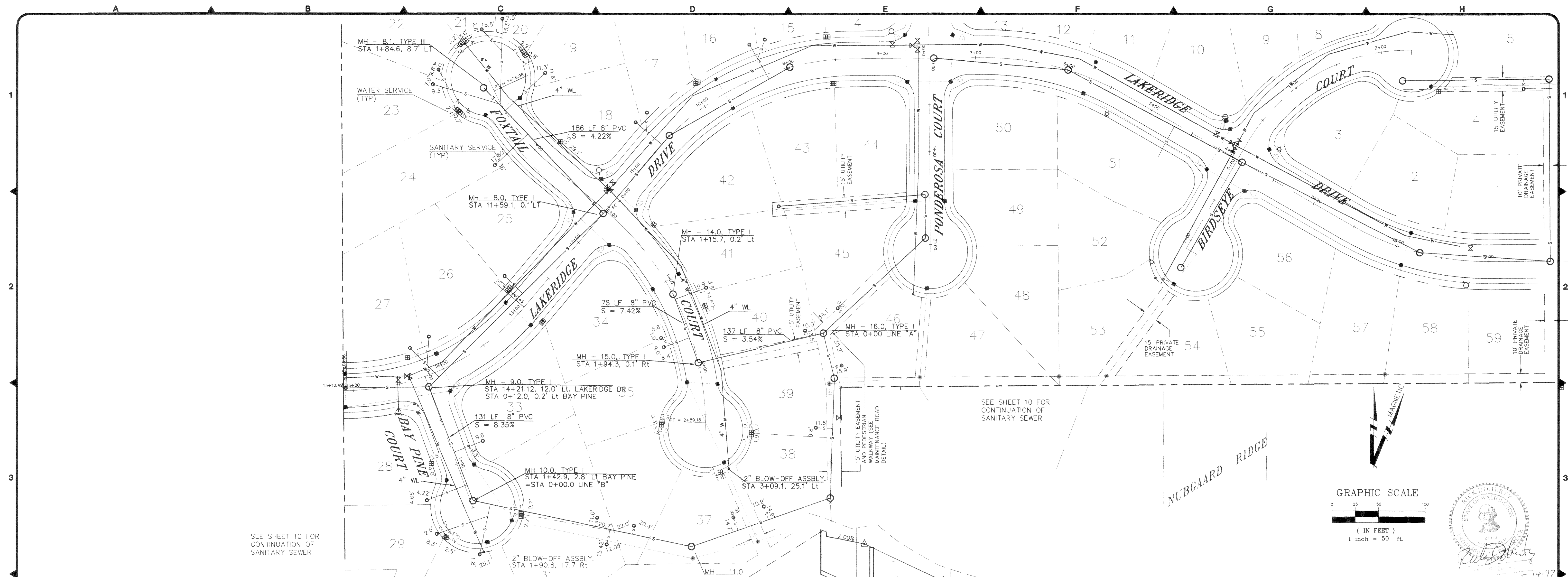
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| DESIGNED BY | DATE |
| DRAWN BY    | DATE |
| CHECKED BY  | DATE |

**LAKERIDGE ESTATES**  
**PONDEROSA AND BIRDSEYE COURTS**  
**SANITARY SEWER AND WATER PLAN**

DATE 09/12/95  
SCALE AS SHOWN  
JOB NO. 92099

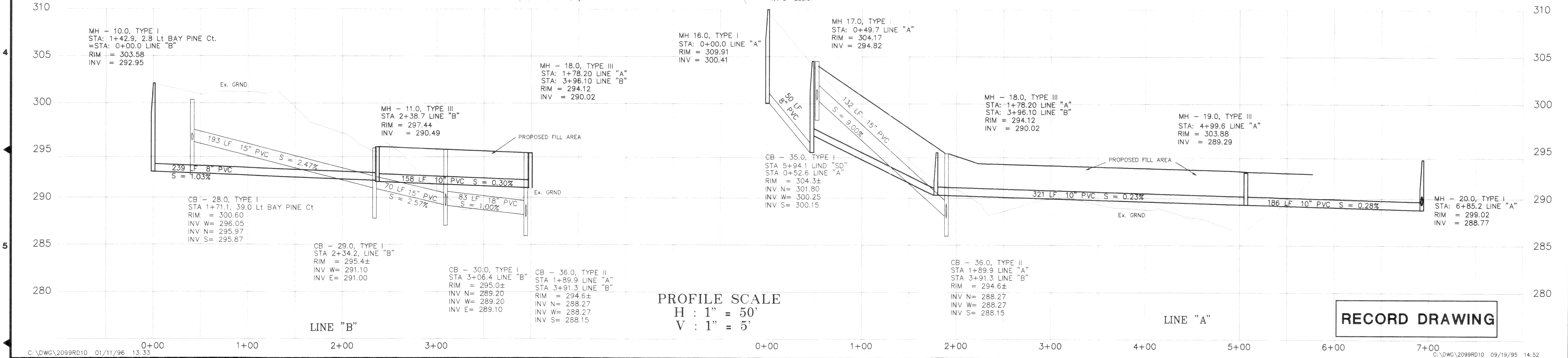
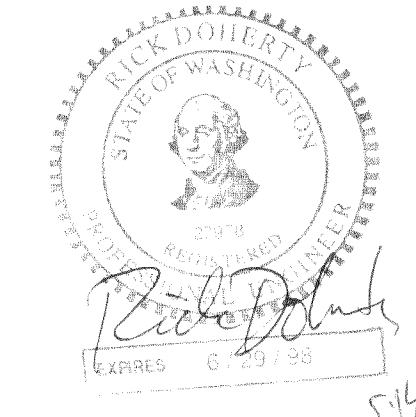
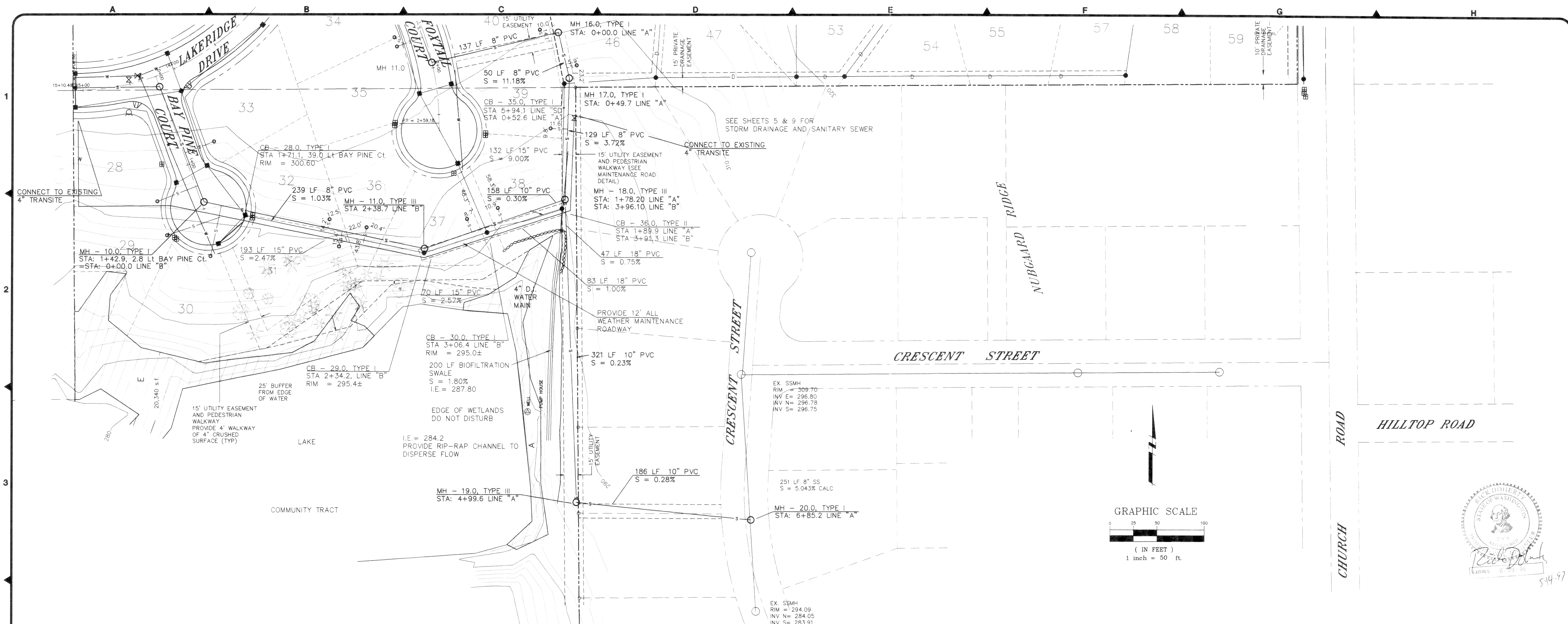
SHEET 8 OF 17







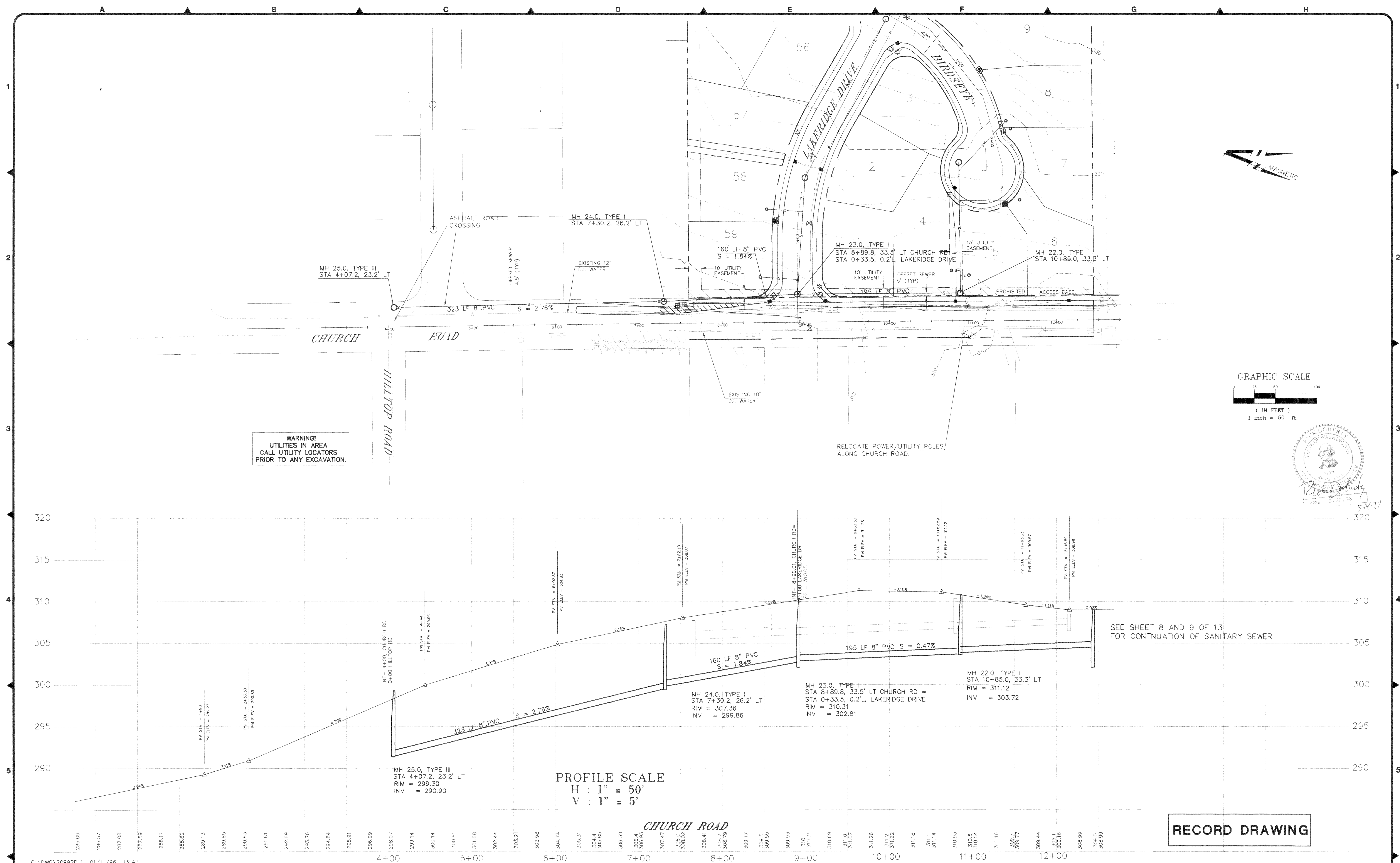
00094.DWG 2. B.O.G. KR



PROFILE SCALE  
H : 1" = 50'  
V : 1" = 5'

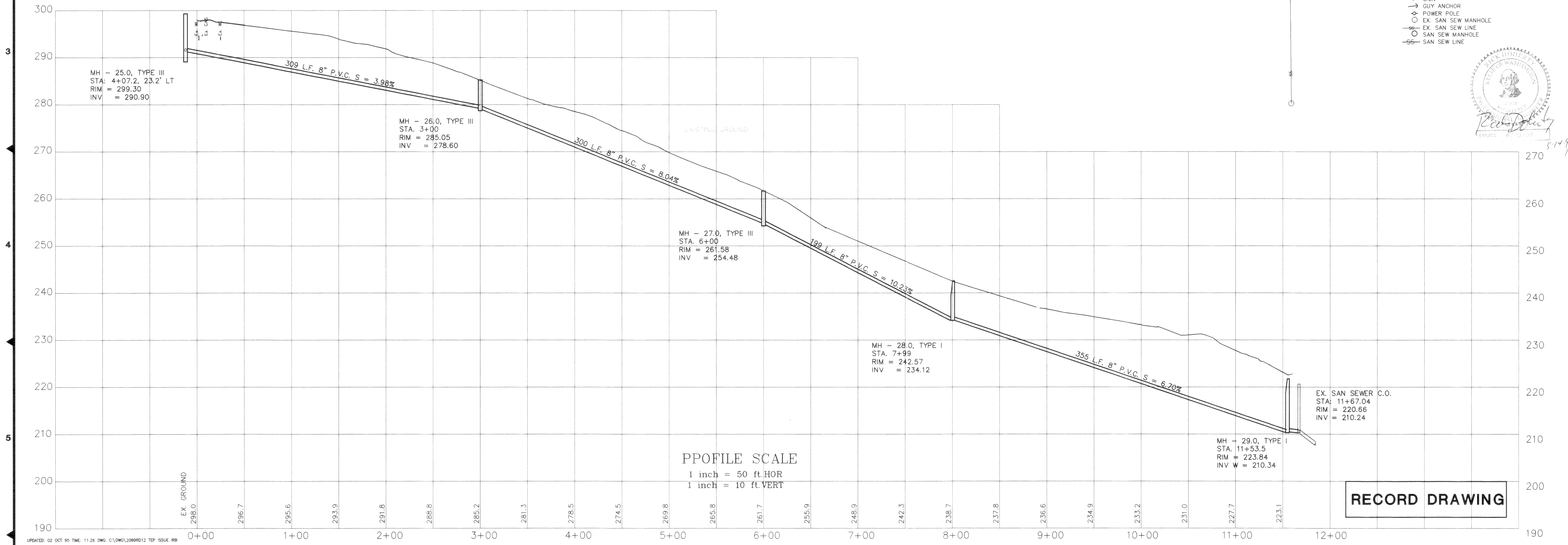
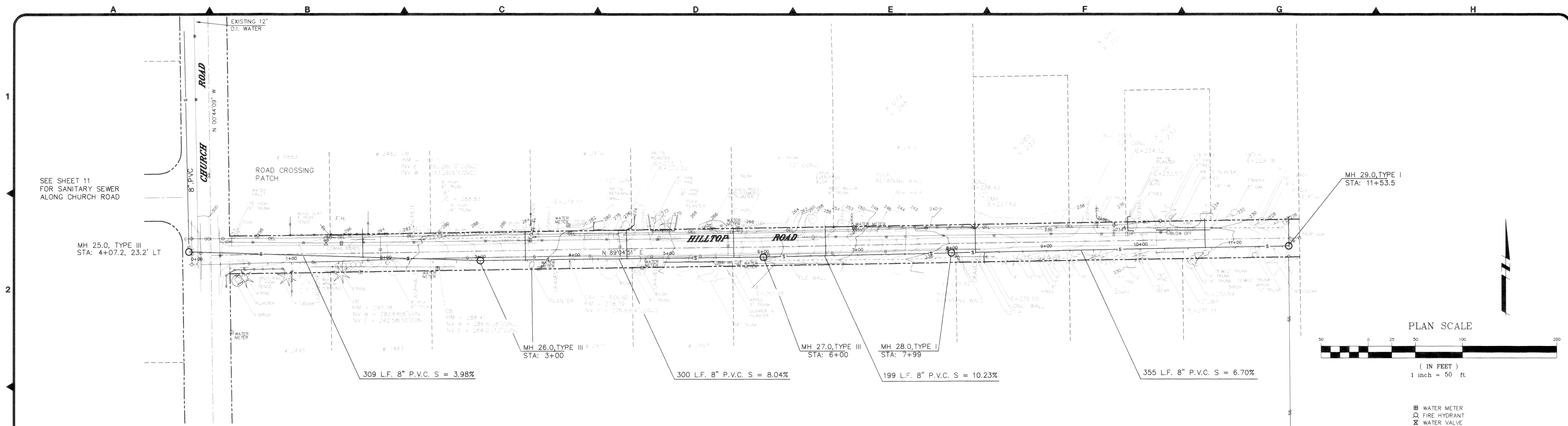
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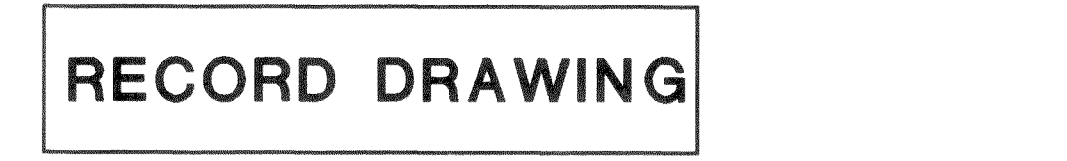
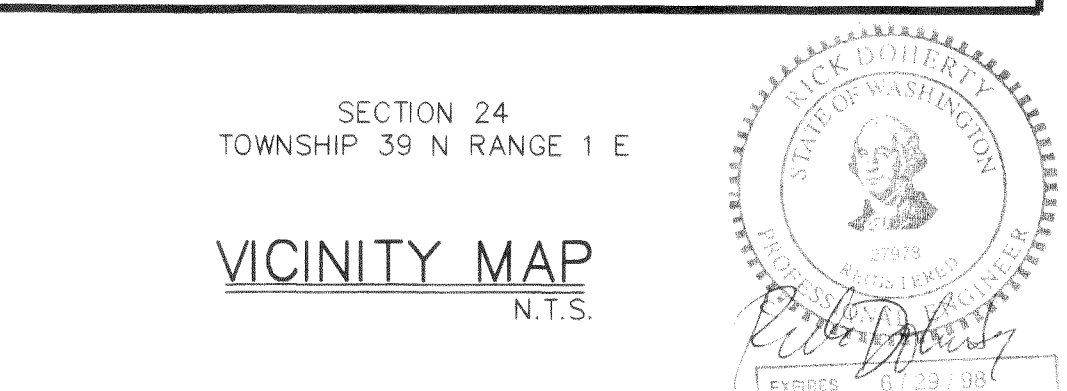
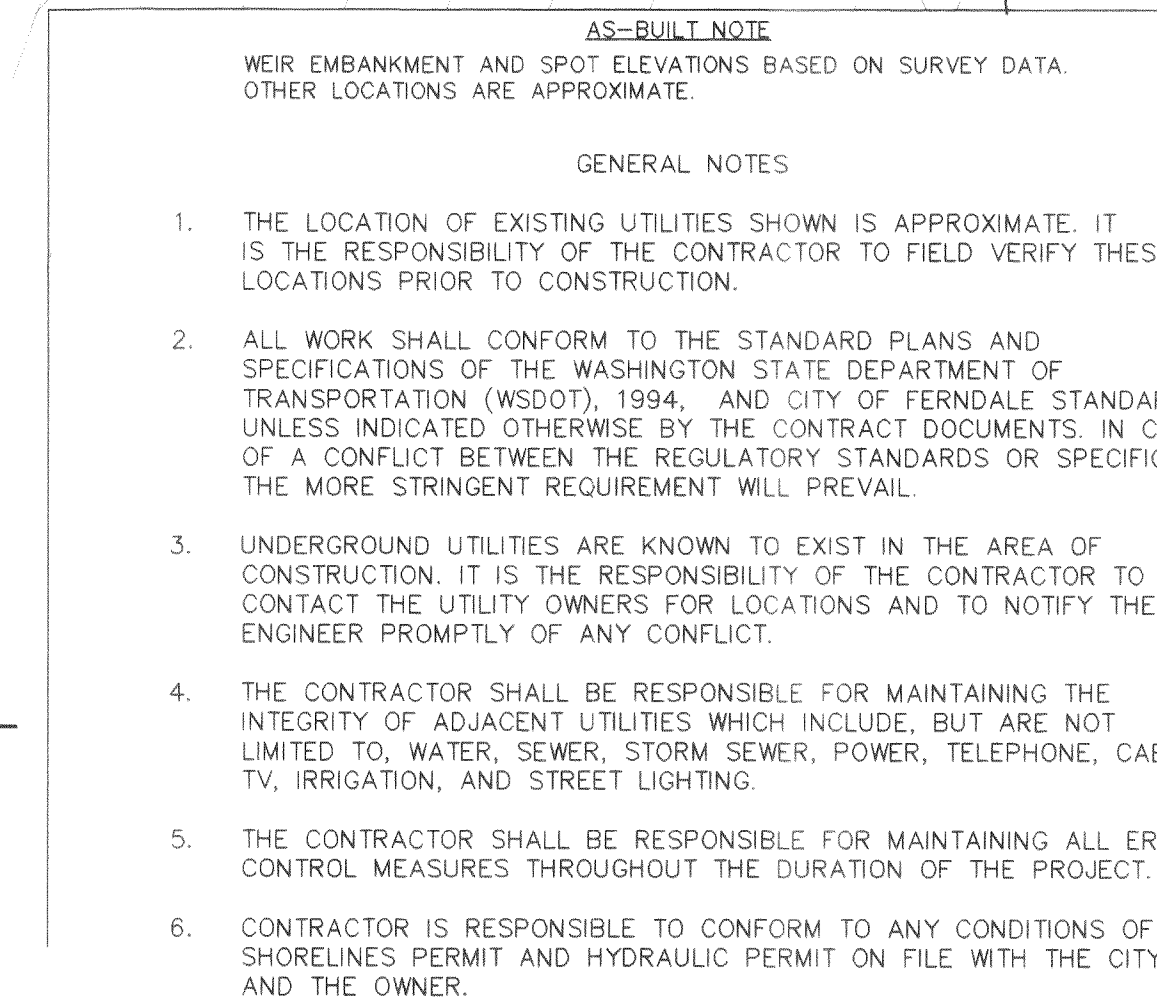
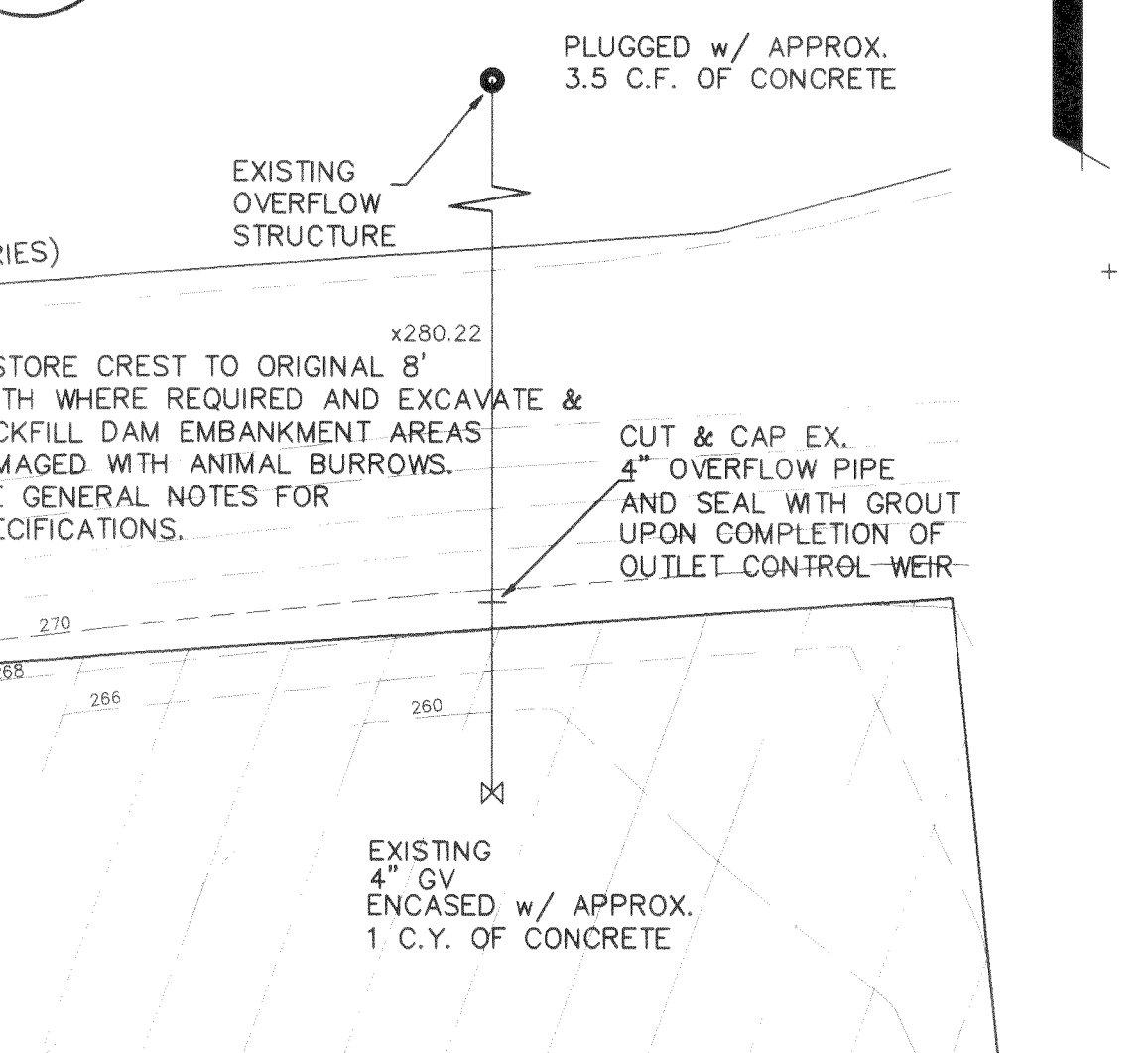
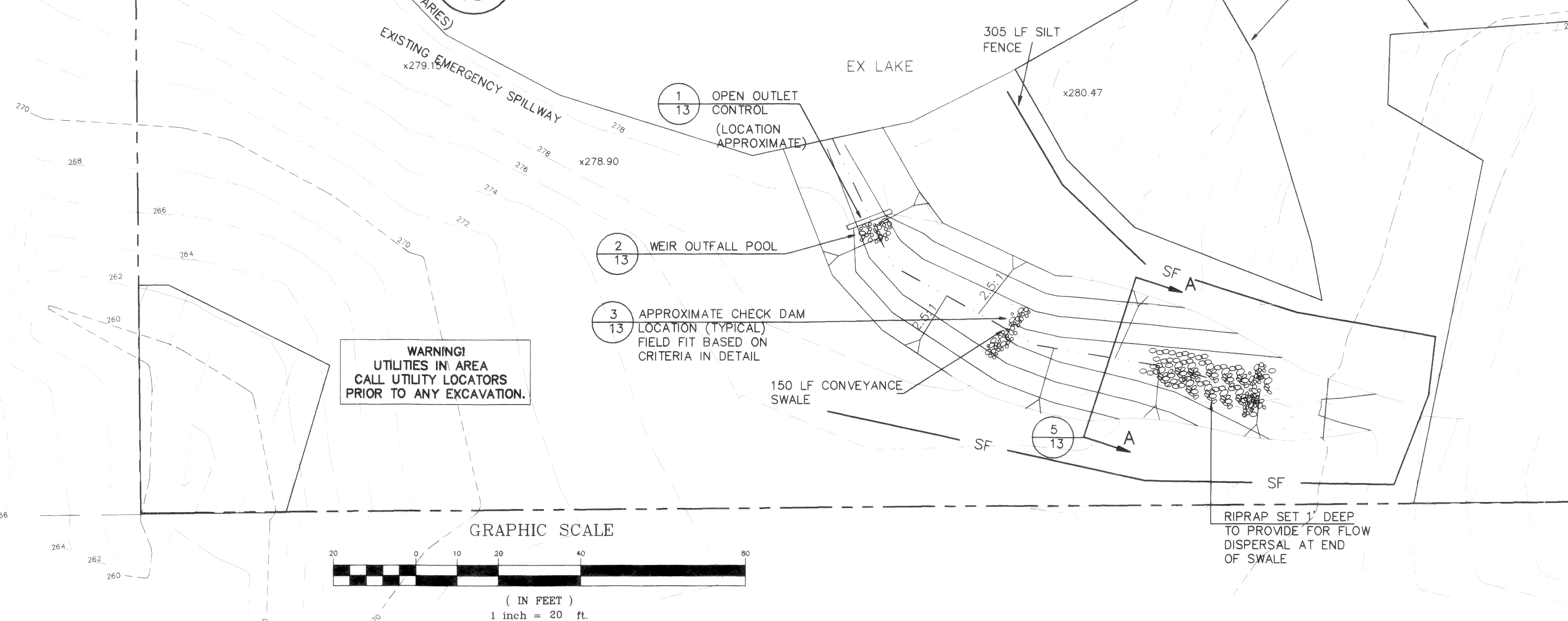
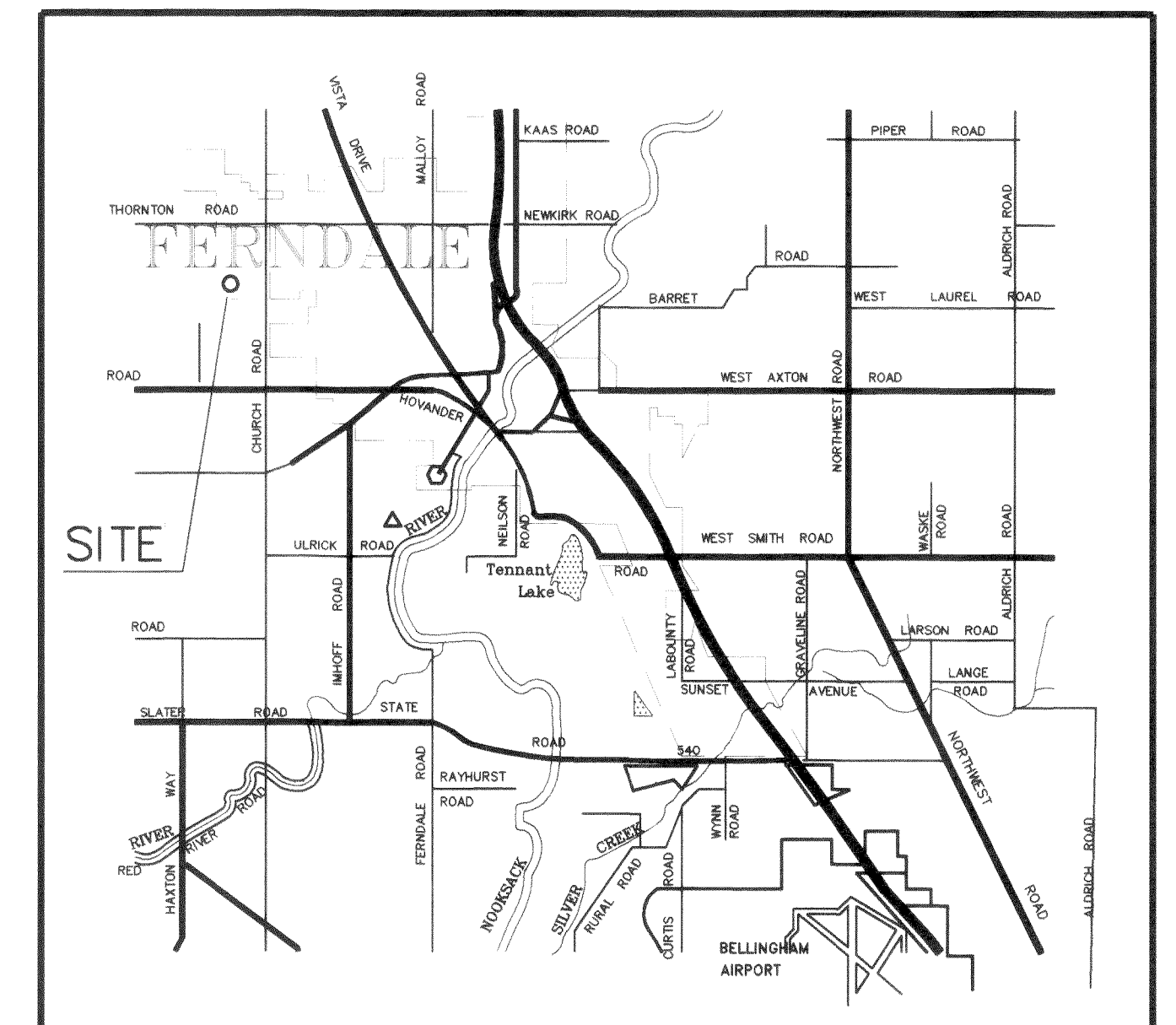
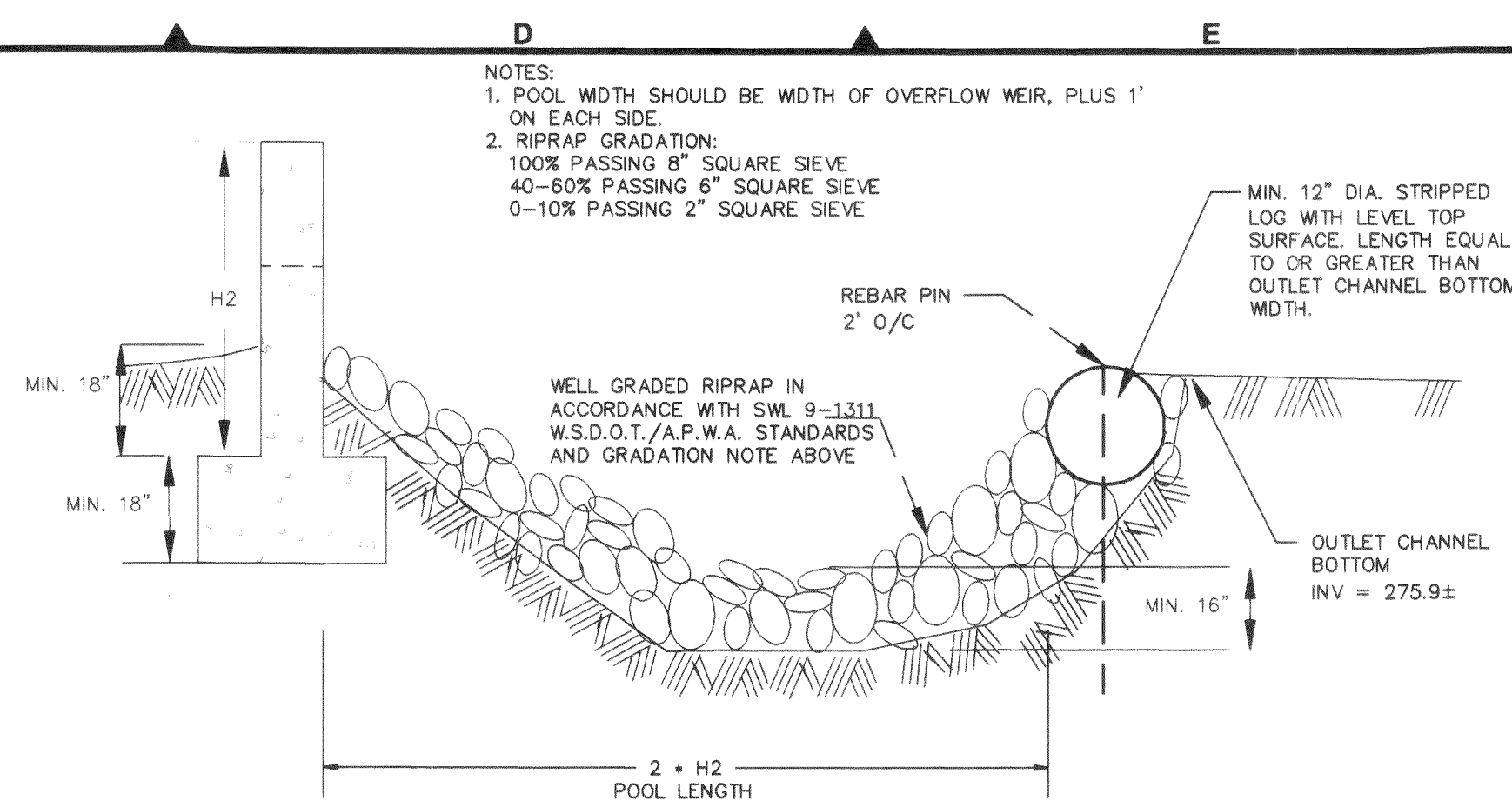


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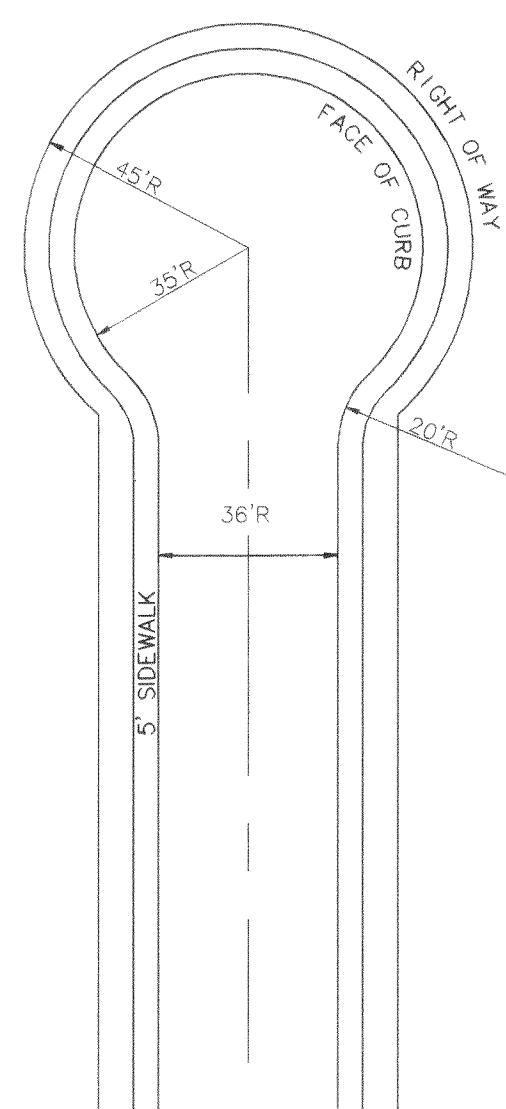






A B C D E F G H

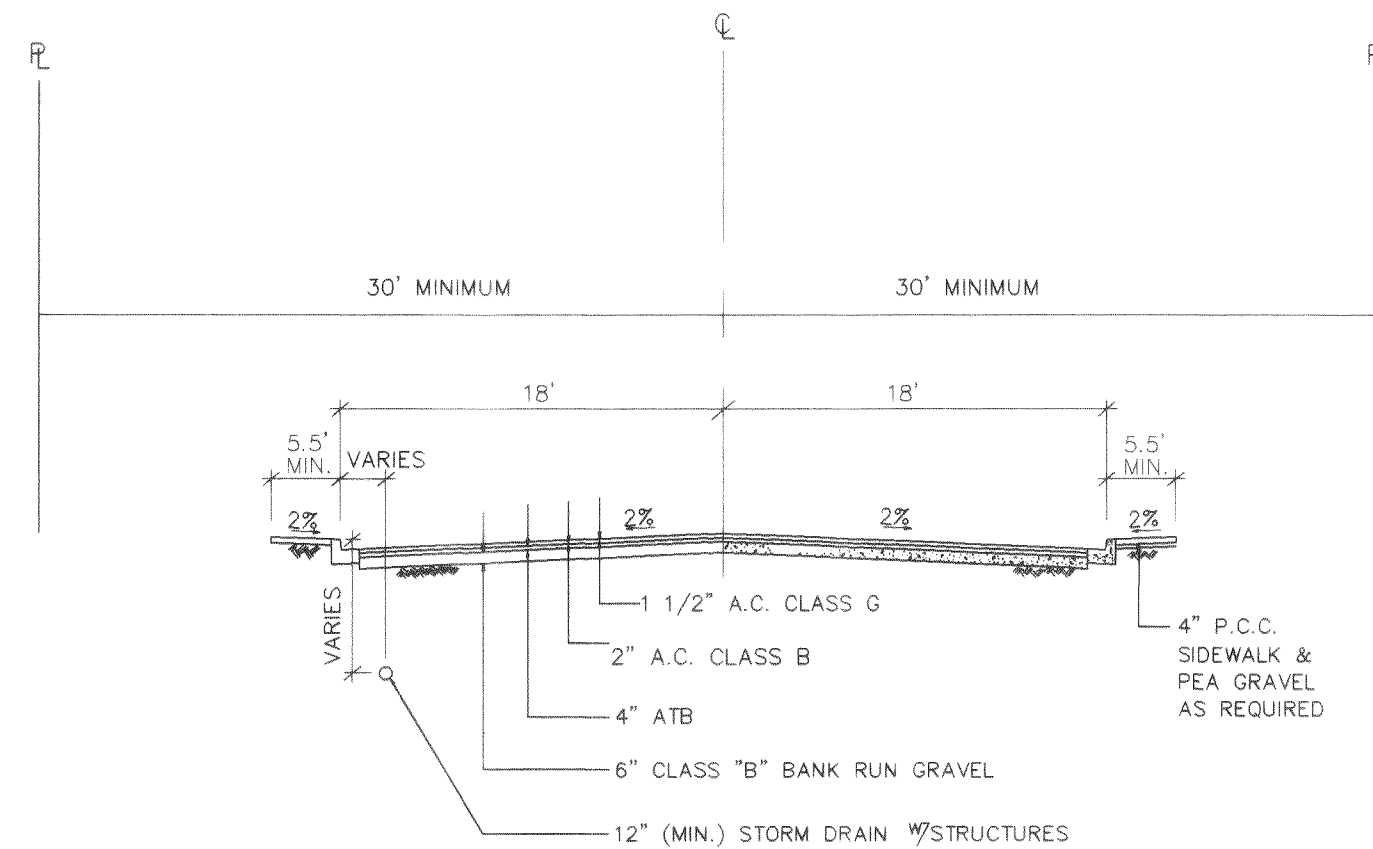
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TYPICAL

1 TYPICAL CUL DE SAC  
1 NTS

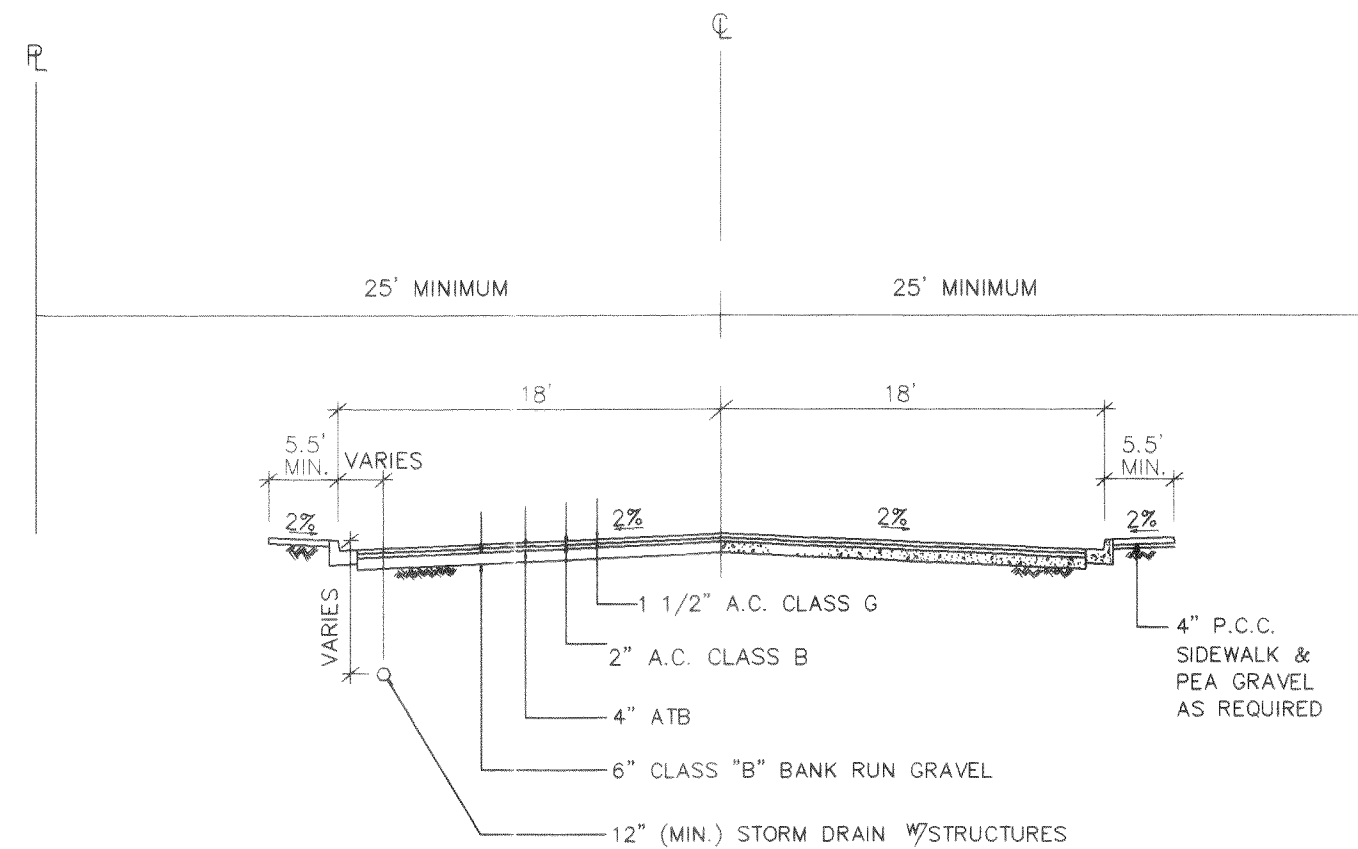
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ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE PROVISIONS OF APPLICABLE SECTIONS OF A.P.W.A. "STANDARD SPECIFICATIONS" AND SHALL CONFORM TO THE REQUIREMENTS OF THE CITY ENGINEER.

2 STANDARD RESIDENTIAL SECTION  
1 NTS

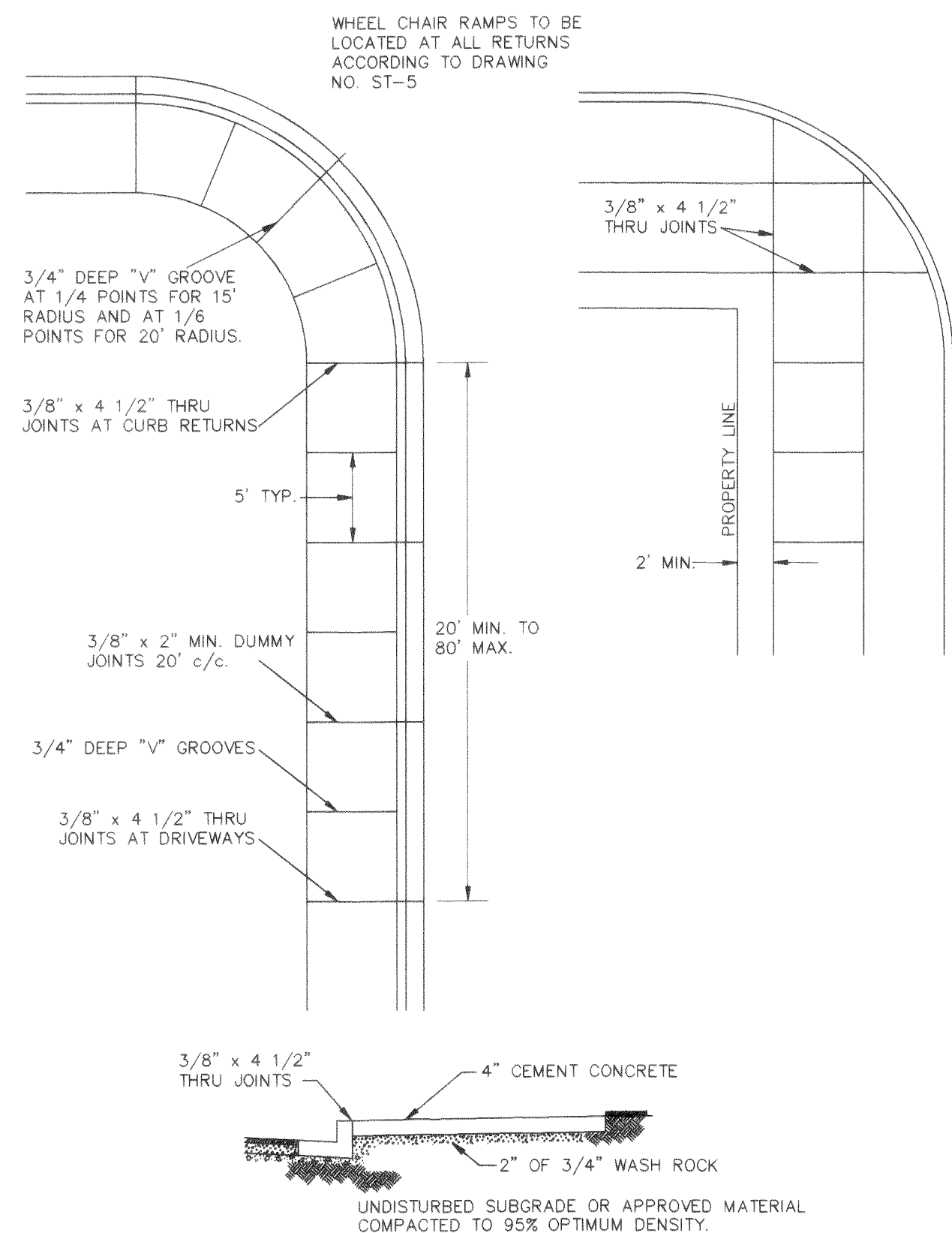
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ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE PROVISIONS OF APPLICABLE SECTIONS OF A.P.W.A. "STANDARD SPECIFICATIONS" AND SHALL CONFORM TO THE REQUIREMENTS OF THE CITY ENGINEER.

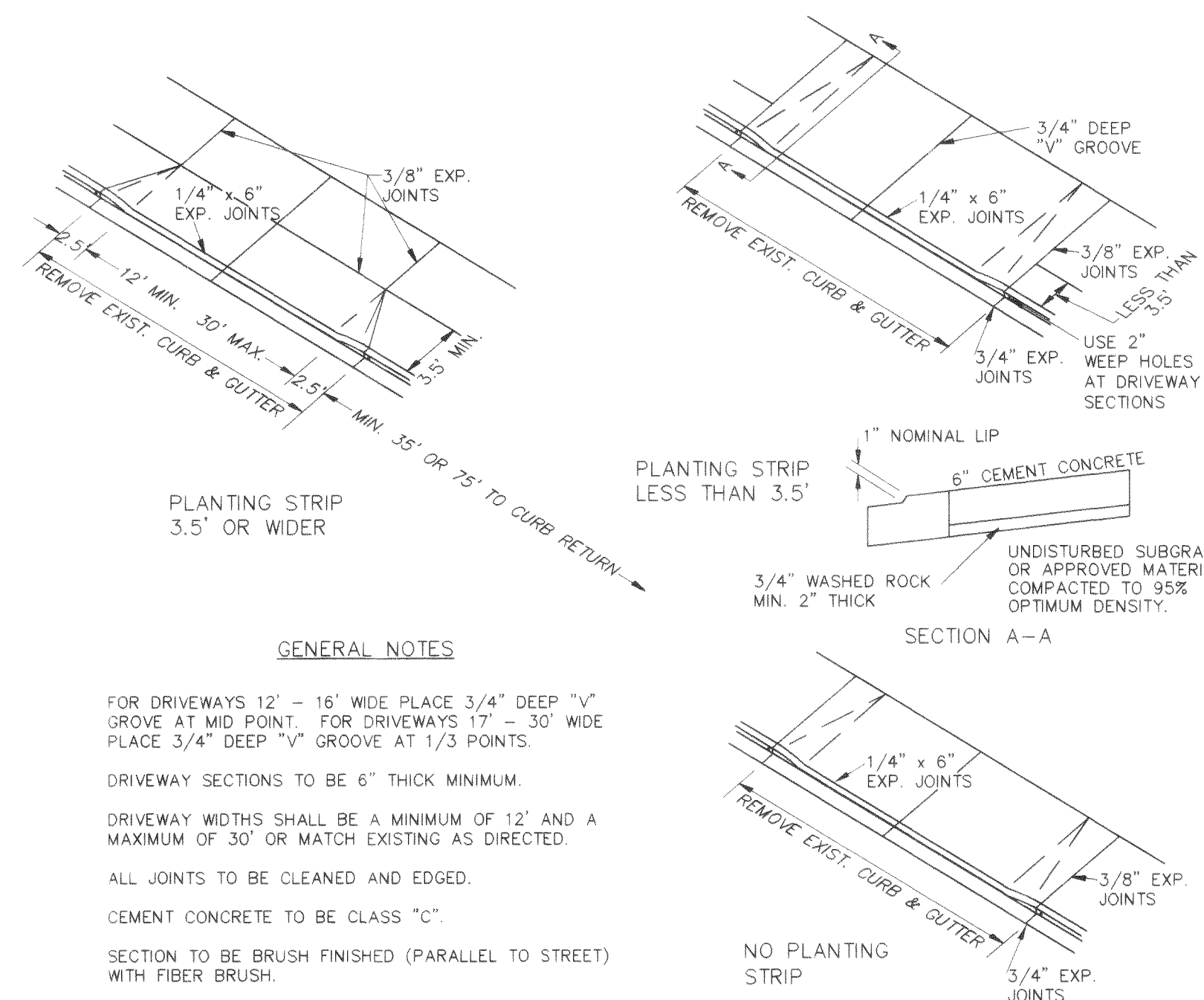
3 STANDARD RESIDENTIAL SECTION  
1 CUL-DE-SAC, MINOR ACCESS ROAD  
NTS

4

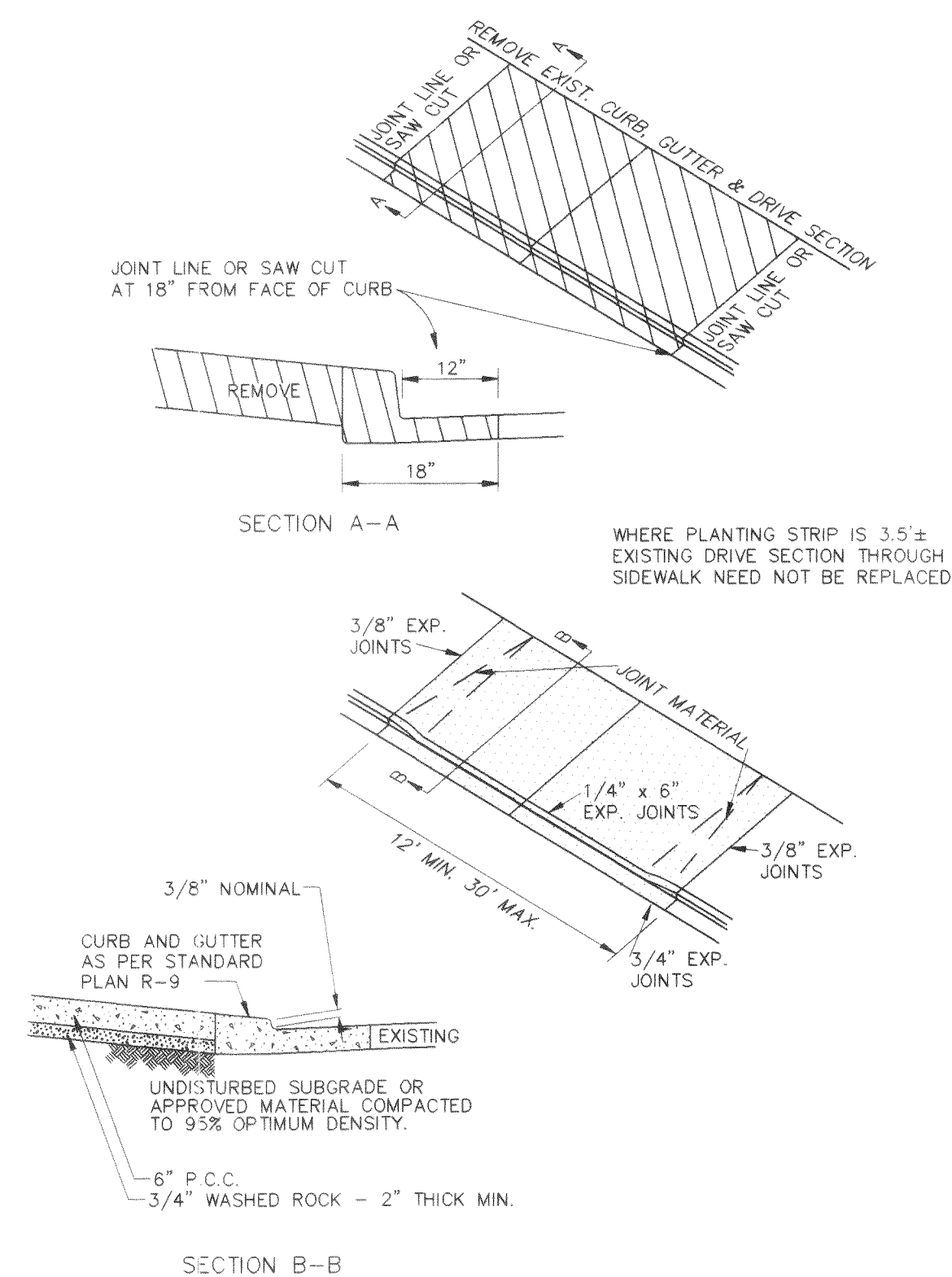


5 TYPICAL SIDEWALK PLAN  
1 AND CROSS SECTION  
NTS

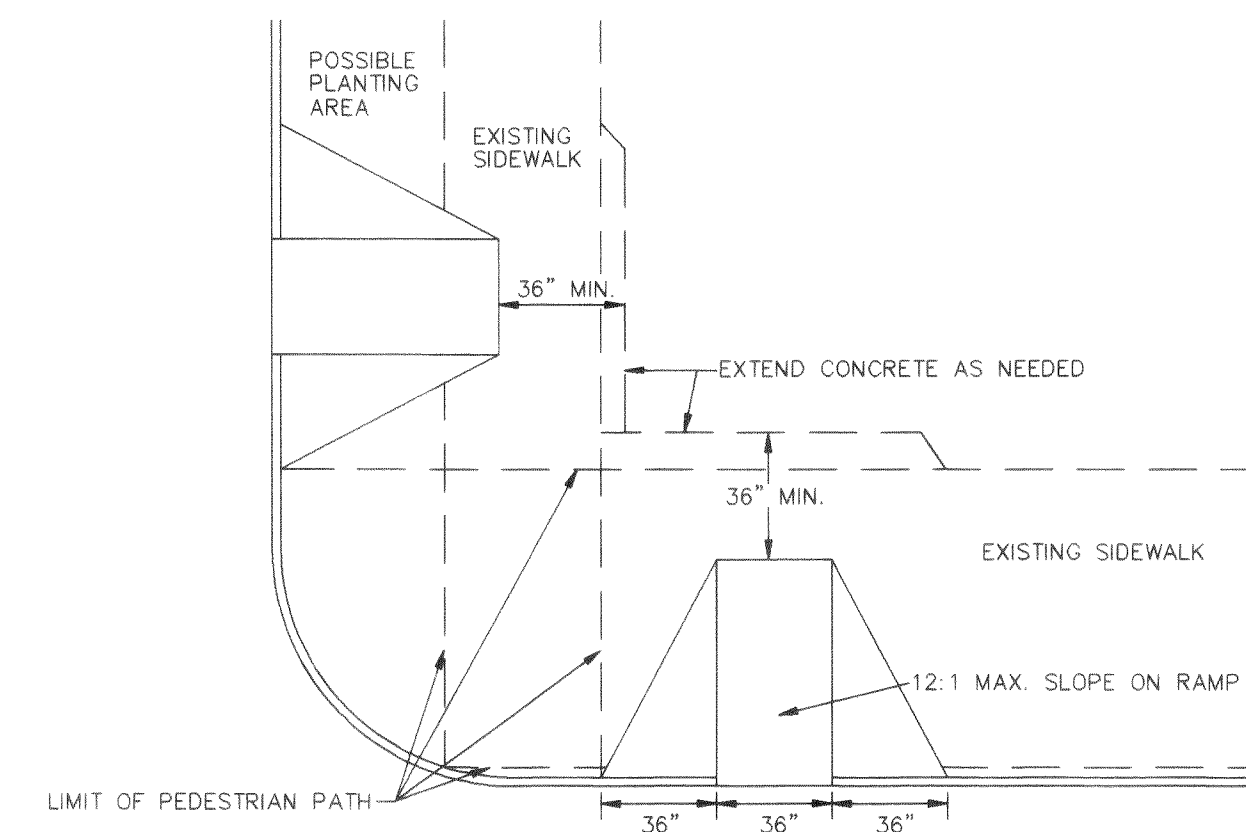
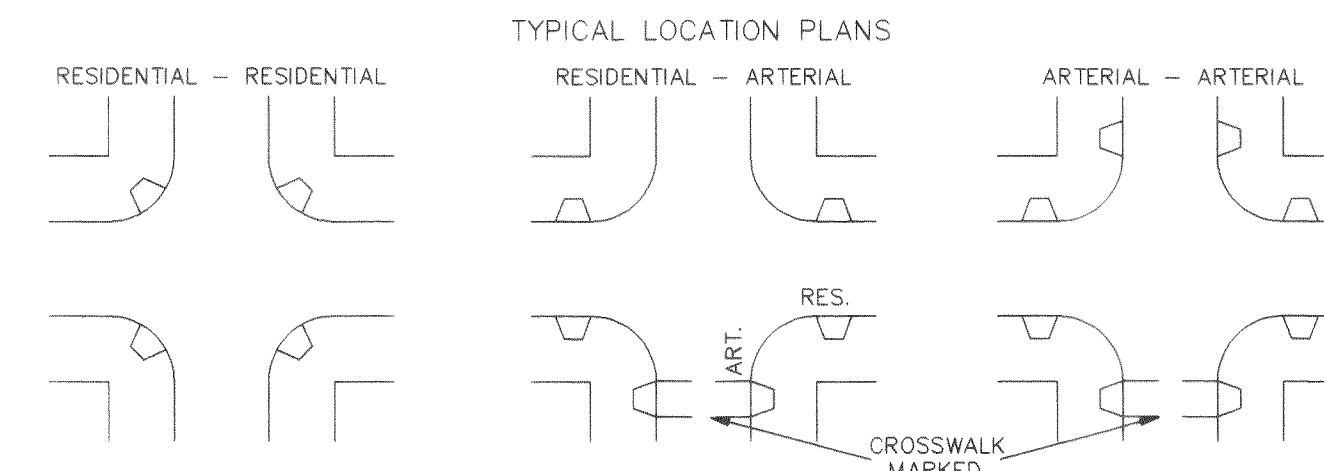
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6 MINIMUM STANDARD  
1 DRIVEWAY SECTIONS  
NTS



7 DRIVEWAY SECTION  
1 CURB CUT  
NTS

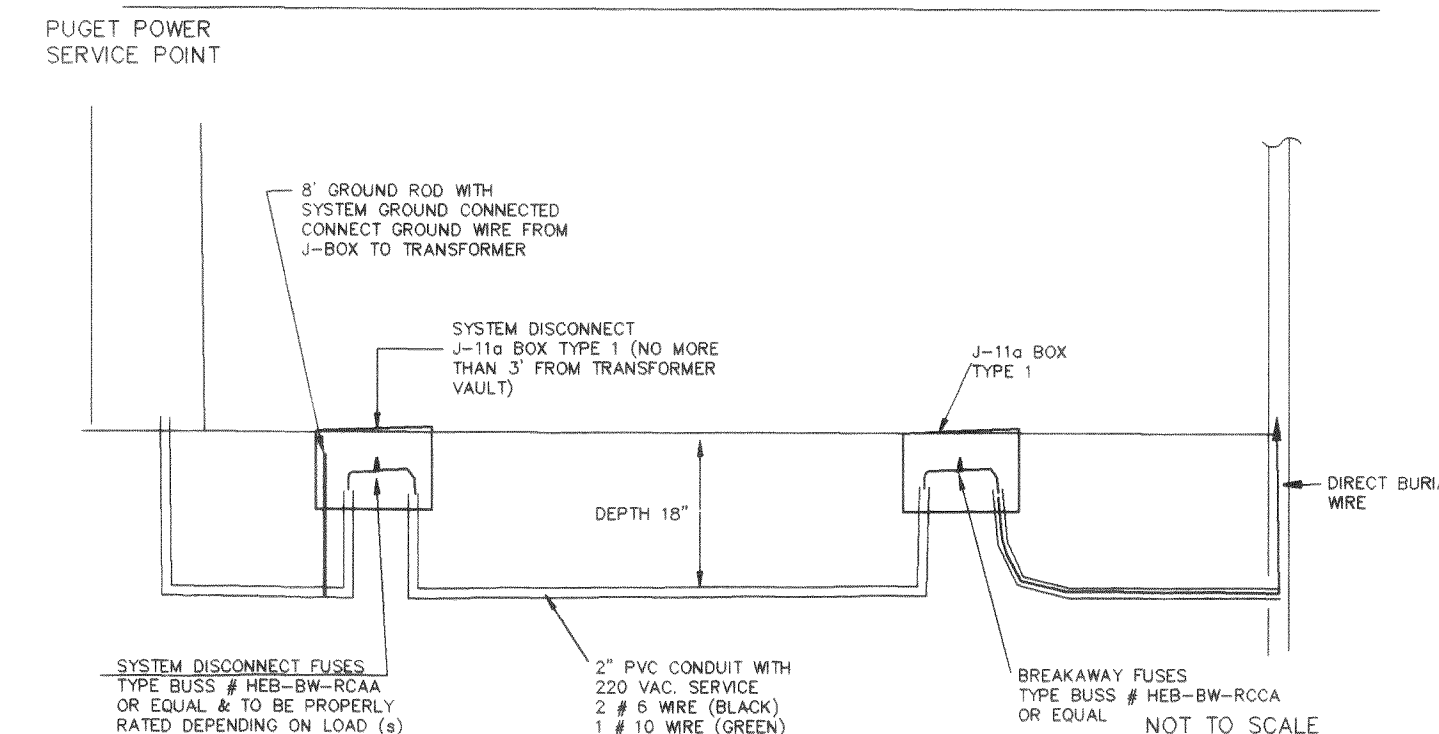


NOTE: SEE STANDARD DRAWING NUMBER ST-6 FOR CURB DETAIL

4 MINIMUM STANDARD  
1 CURB RAMPS  
NTS

LUMINAIRE  
CITY OF FERDALE STANDARDS

ARTERIAL STREET LUMINAIRE POLE  
NTS



LUMINAIRE SYSTEM FUSING  
NTS

RECORD DRAWING

UPDATED: 02 OCT 95 TIME: 13:51 DWG: C:\DWG\2099RD14.TEP ISSUE: RBS



1911 "C" STREET  
BELLINGHAM, WA 98225  
PHONE: (360) 671-8200  
COUNTY: (360) 354-3723  
FAX: (360) 736-6367  
**Ayers Professional Group, Inc.**

|             |      |
|-------------|------|
| DESIGNED BY | DATE |
| DRAWN BY    | DATE |
| CHECKED BY  | DATE |

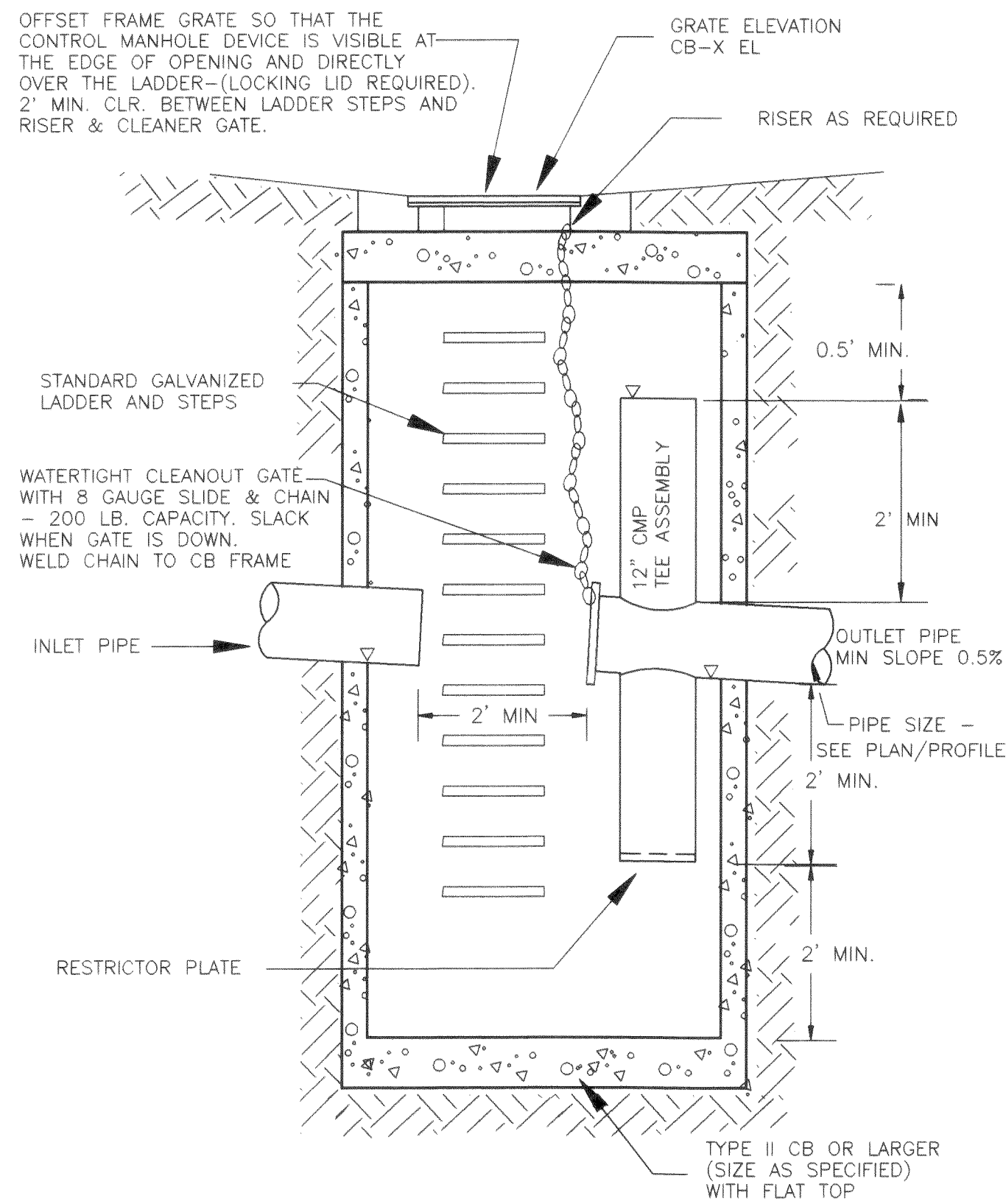
LAKE RIDGE ESTATES

ROADWAY DETAILS

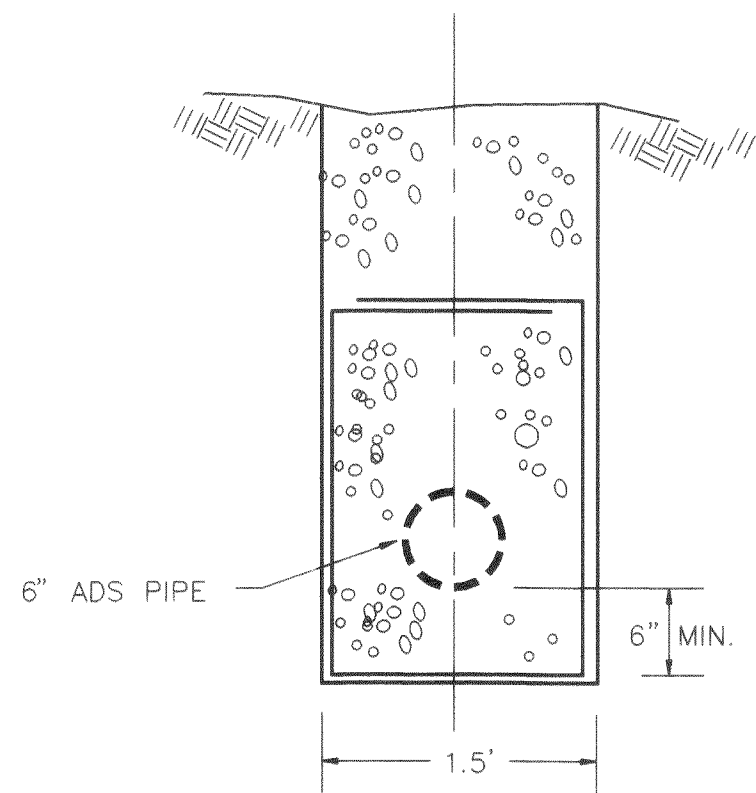
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| DATE    | 09/12/95 |
| SCALE:  | AS SHOWN |
| JOB NO. | 92099    |

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|-------|----|
| SHEET | 14 |
| OF    | 17 |

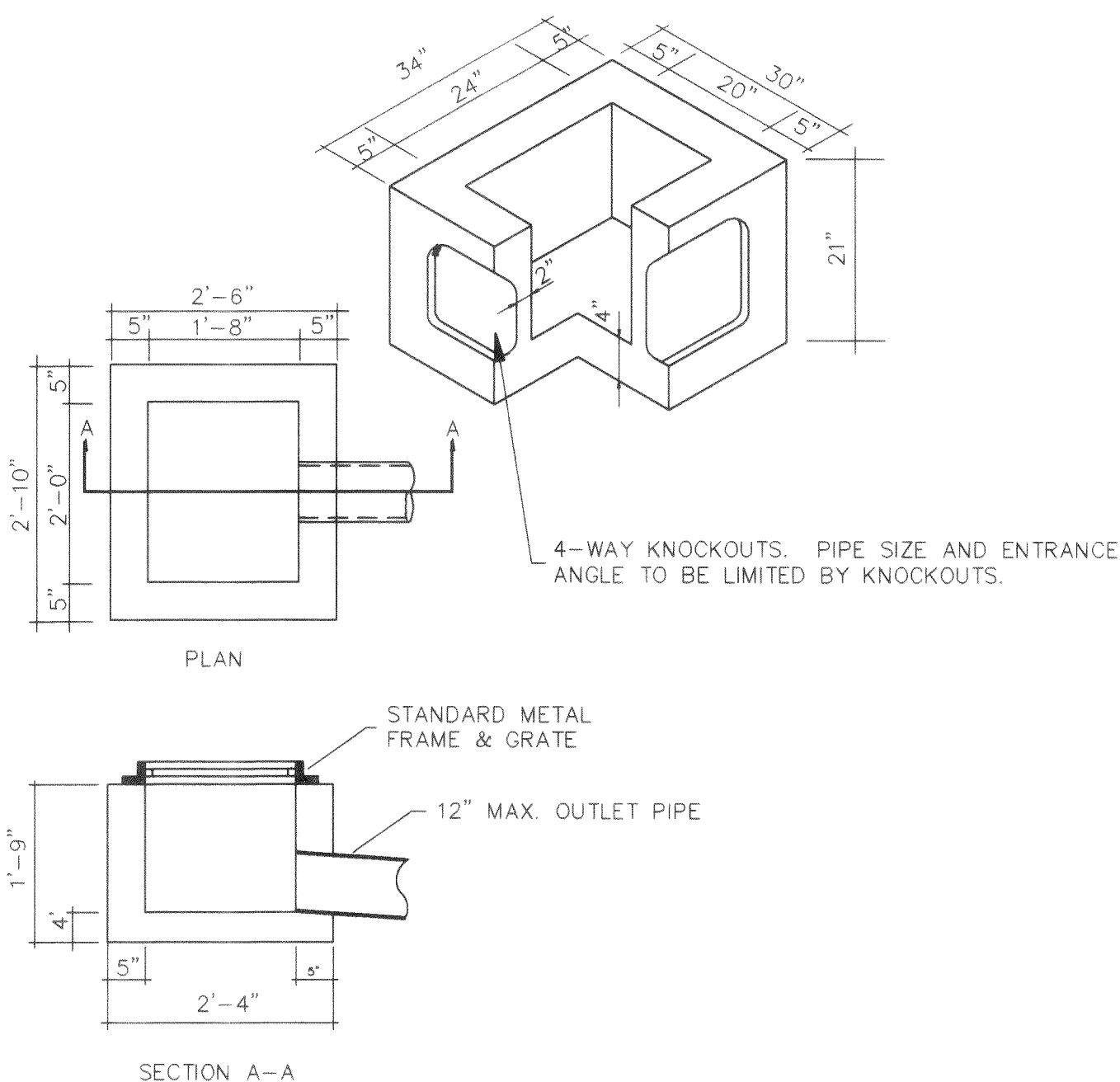




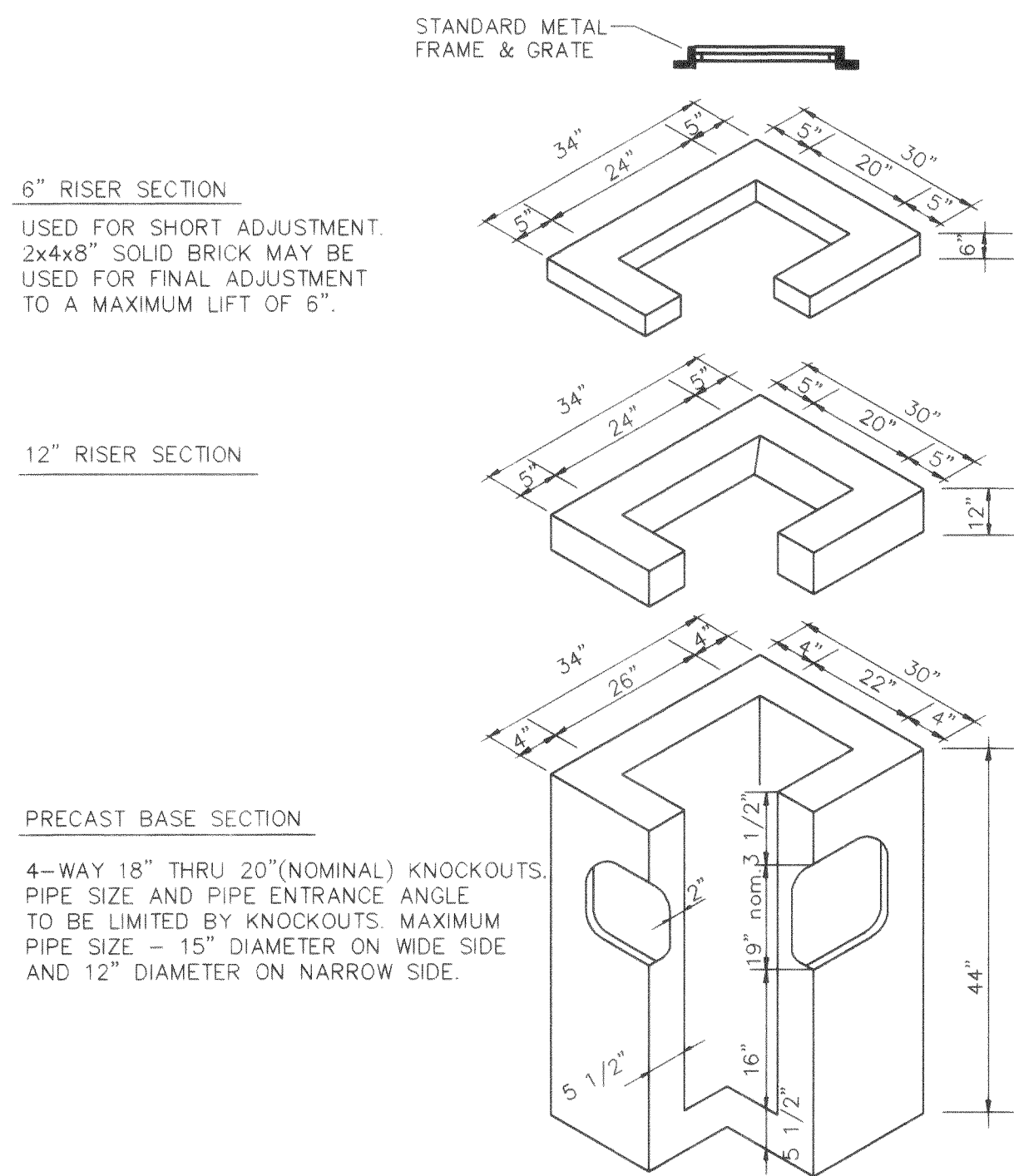
**8**  
VAR OIL SEPARATOR MANHOLE  
NTS



**12**  
VAR ADS TIGHTLINE DETAIL  
NTS

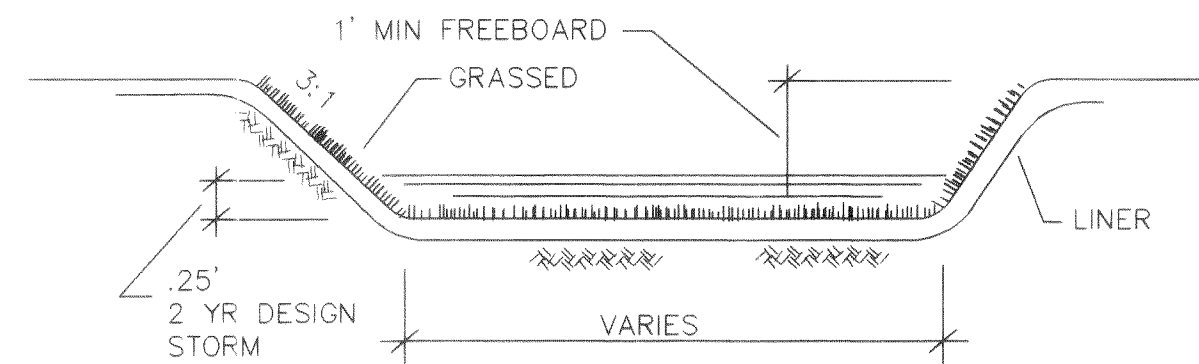


**9**  
VAR INLET DETAIL  
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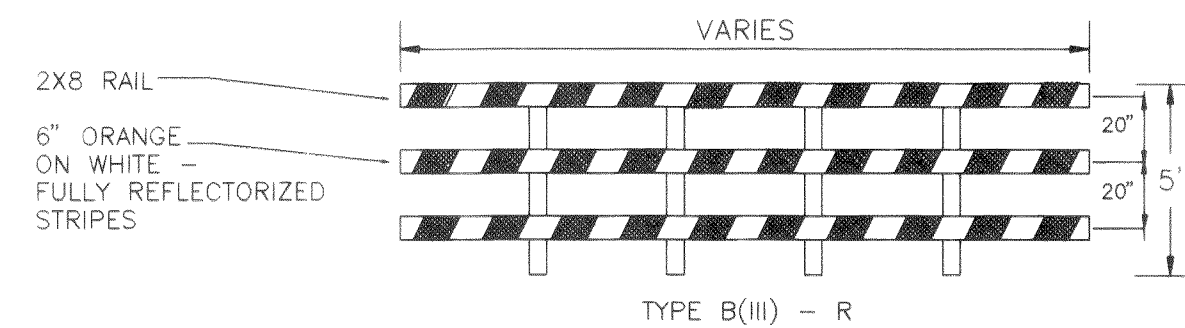


- NOTES:
- 1) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER A.P.W.A. STANDARDS OR STATE STANDARDS.
  - 2) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION, SEE A.P.W.A. STANDARDS OR STATE STANDARDS.

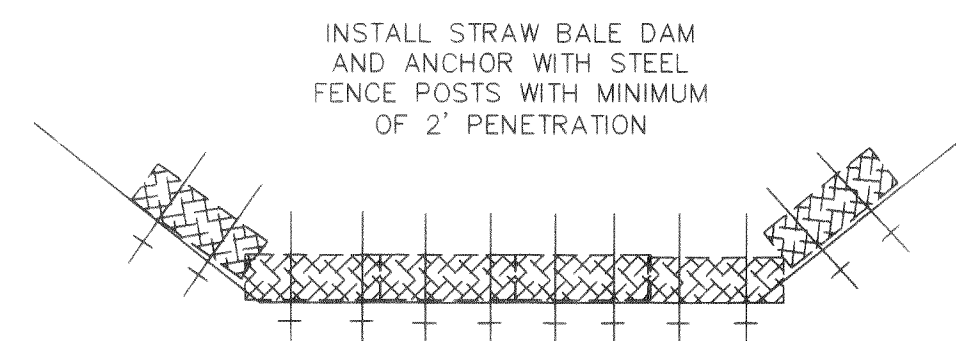
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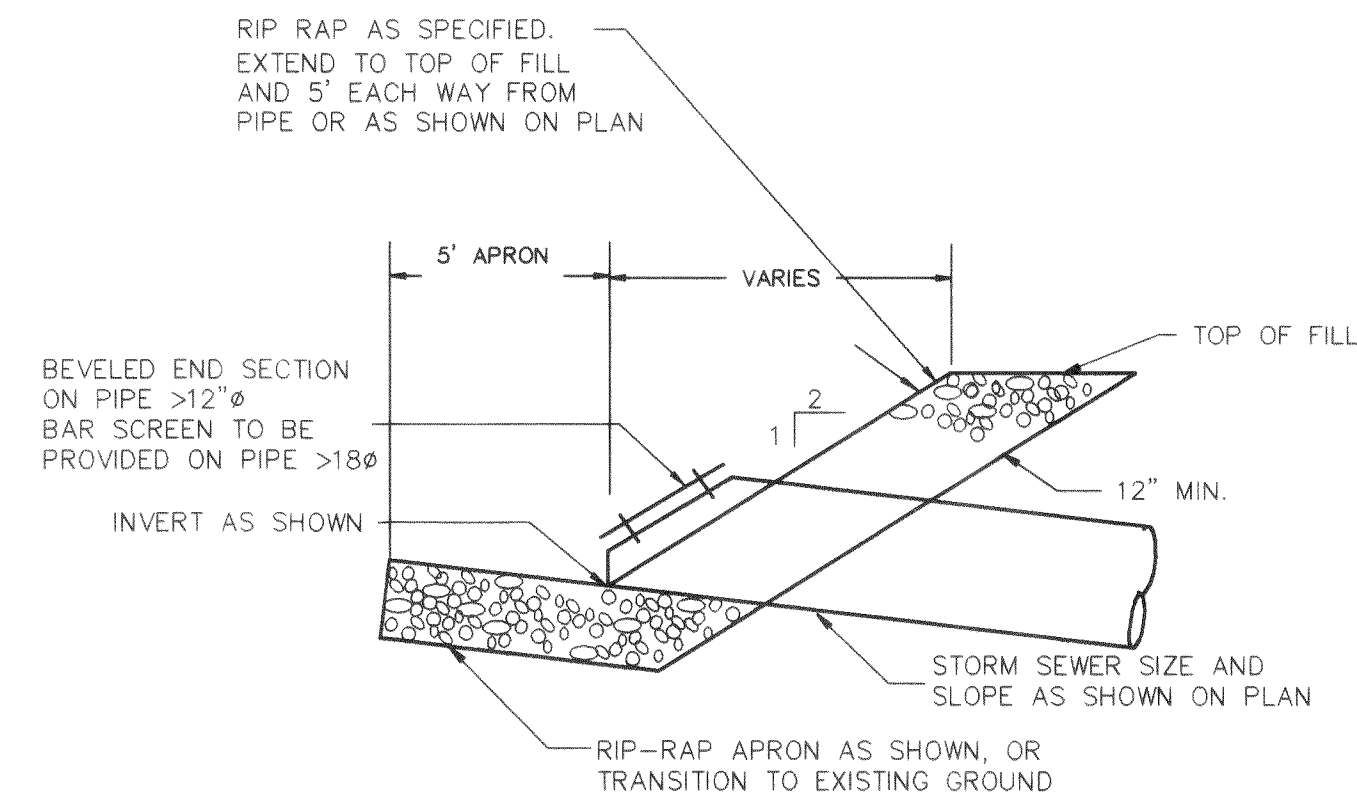
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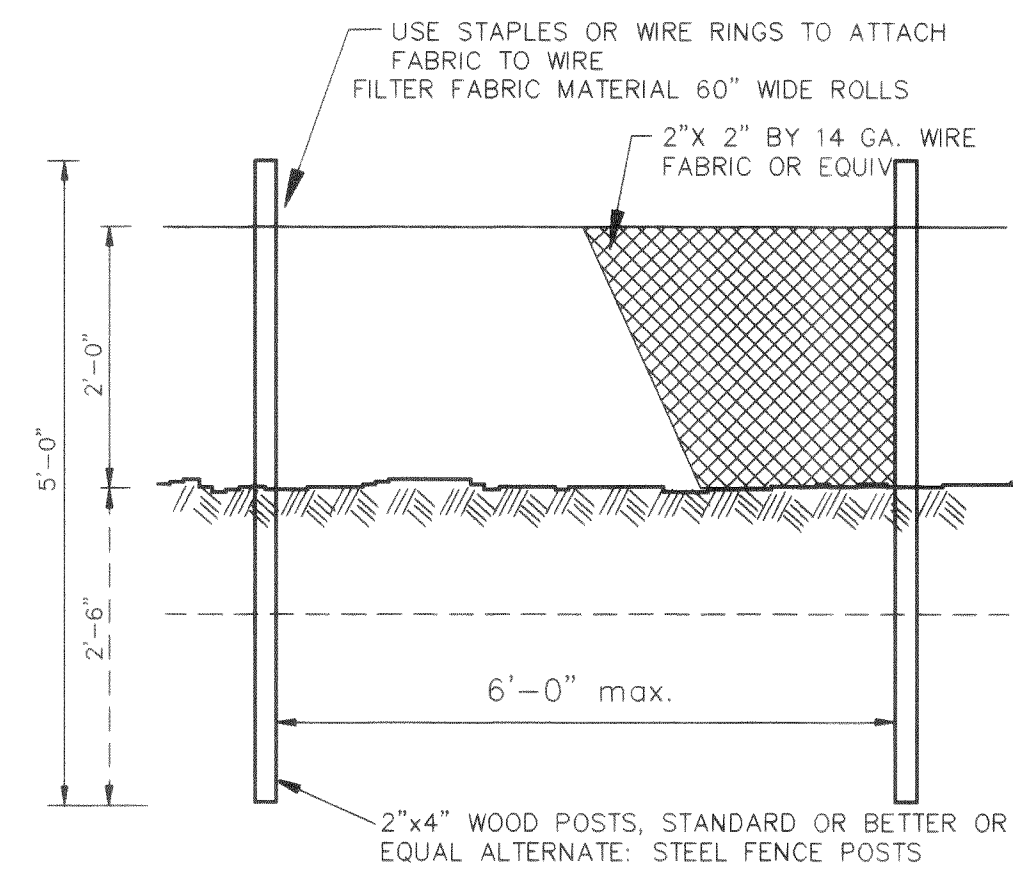
**11A**  
3 BARRICADE DETAIL  
NTS



**14**  
VAR STRAW BALE DAM DETAIL  
NTS



**11**  
VAR CULVERT INLET/OUTLET DETAIL  
NTS



**15**  
VAR SILT FENCE DETAIL  
NTS

RECORD DRAWING

LAKERIDGE ESTATES

STORM DRAINAGE DETAILS

DATE  
09/12/95  
SCALE  
AS SHOWN  
JOB NO.  
92099

SHEET  
15  
OF  
17

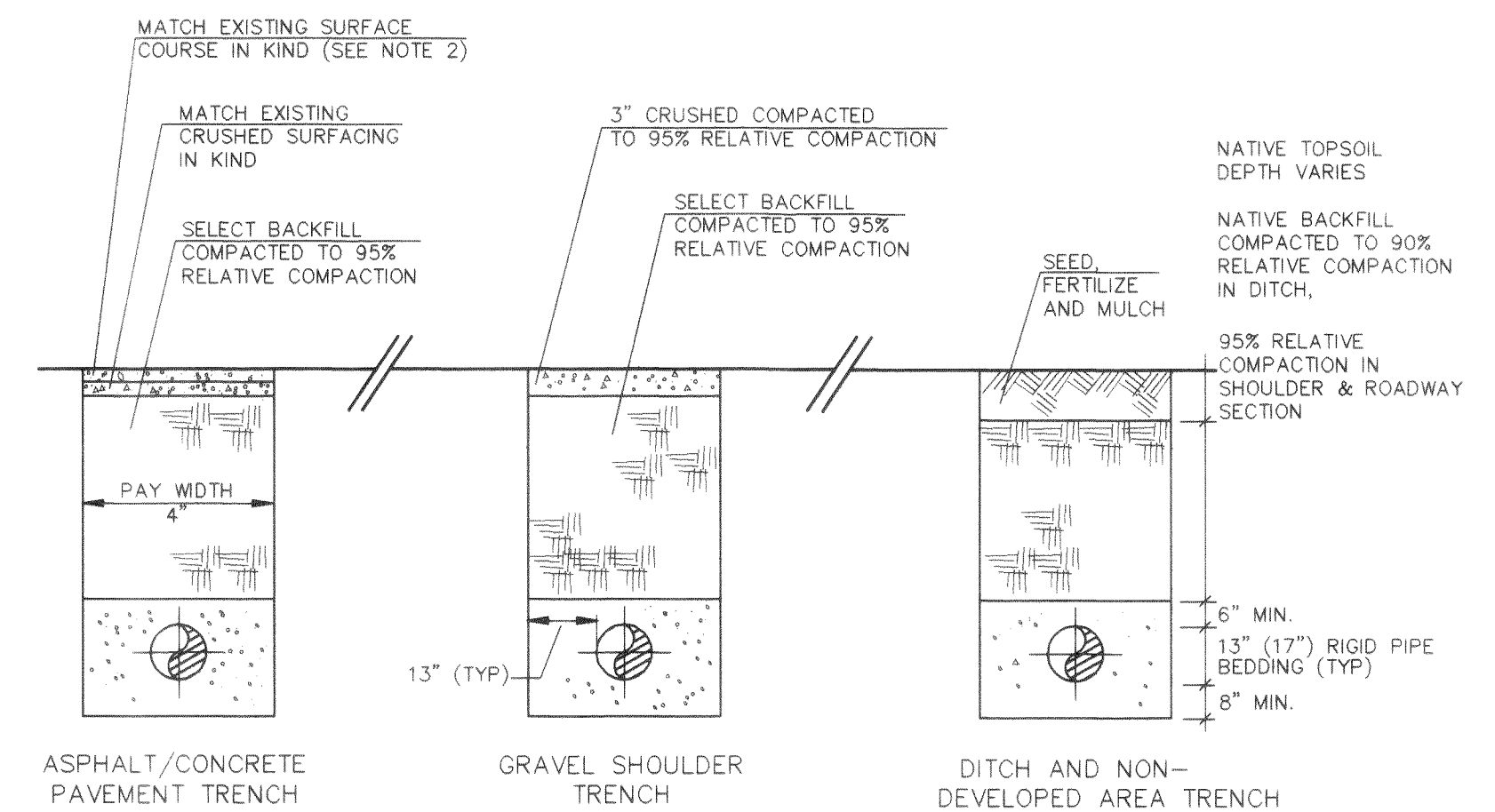
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1911 1<sup>st</sup> STREET  
BELLINGHAM, WA 98225  
PHONE: (360) 671-8200  
COUNTY: (360) 354-3723  
FAX: (360) 738-8367  
**Ayers Professional Group, Inc.**

DESIGNED BY  
DATE  
DRAWN BY  
KLS DATE 09/12/95  
CHECKED BY  
DATE

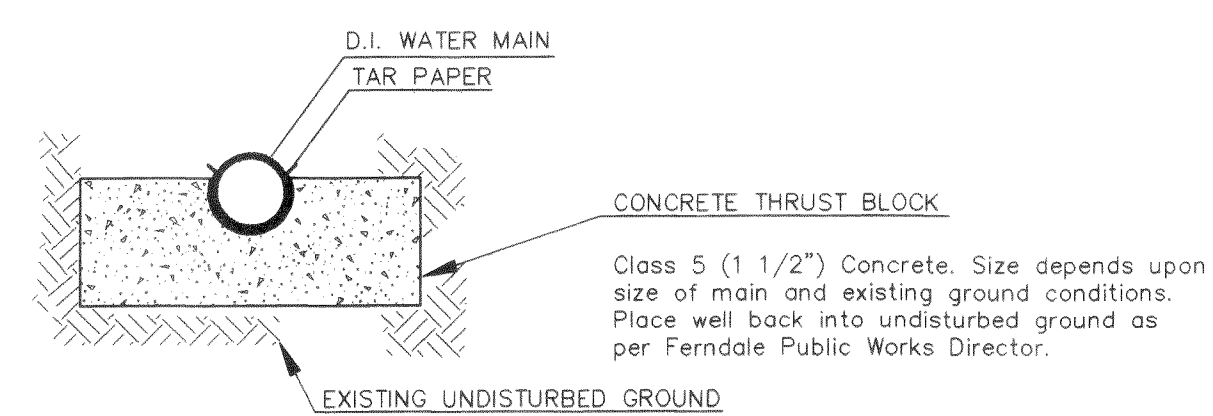
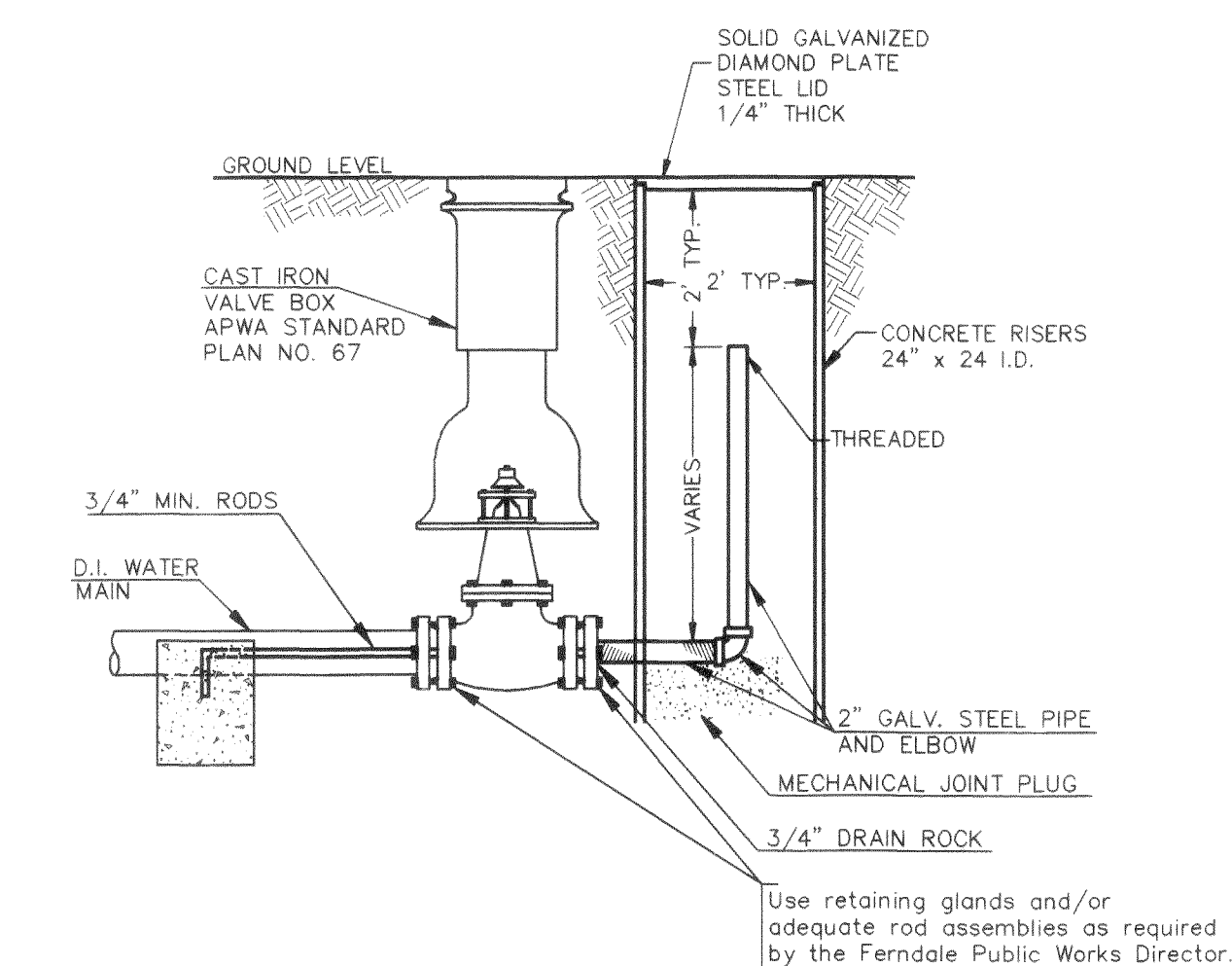




NOTES: 1. NATIVE BACKFILL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.  
2. SELECT BACKFILL/CRUSHED SURFACE COURSE SHALL BE COMPACTED TO 95% COMPACTION.  
3. PAYMENT SHALL BE SAW CUT, TACKED, AND COMPACTED TO 92% OF ABSOLUTE DENSITY.  
4. P.C.C. REPLACEMENT SHALL BE 2" GREATER THAN EXISTING COURSE, 7" MINIMUM, 6.5 P.C.C. (HES - AIR ENTRAINED)  
5. ALL TRENCH RESTORATION SHALL MEET EITHER CITY OF FERNDALE OR WHATCOM COUNTY STANDARDS.

19 TRENCHING DETAIL  
1 NTS

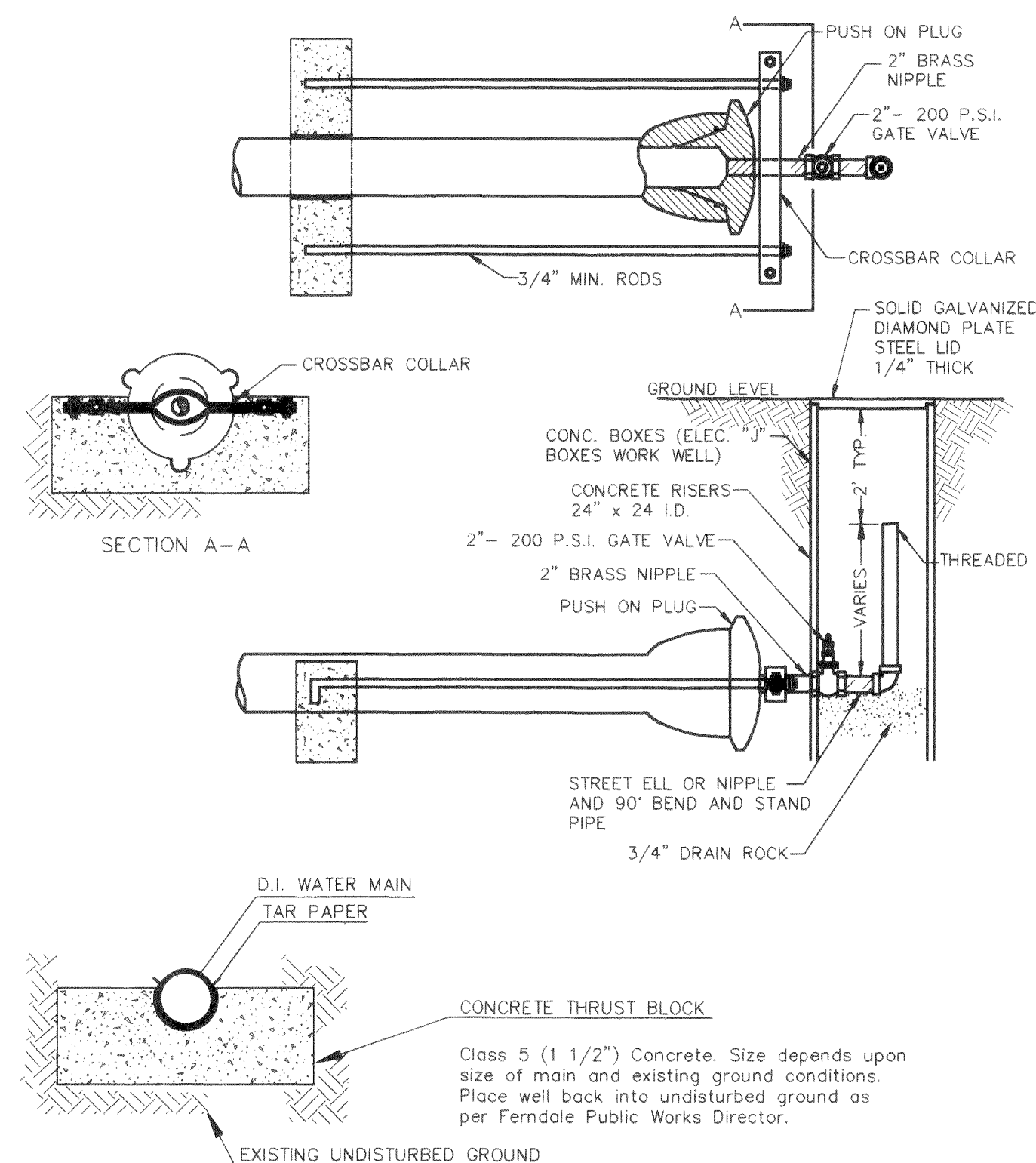
16 FIRE HYDRANT ASSEMBLY  
1 NTS



NOTE:  
2" BLOW-OFF TO BE USED WHEN MAIN WILL BE EXTENDED IN THE FUTURE  
REFER TO DWG. WA- FOR MAINS THAT CAN NOT BE EXTENDED FURTHER.

2" BLOW-OFF  
20  
1 WATER MAIN EXTENSION  
NTS

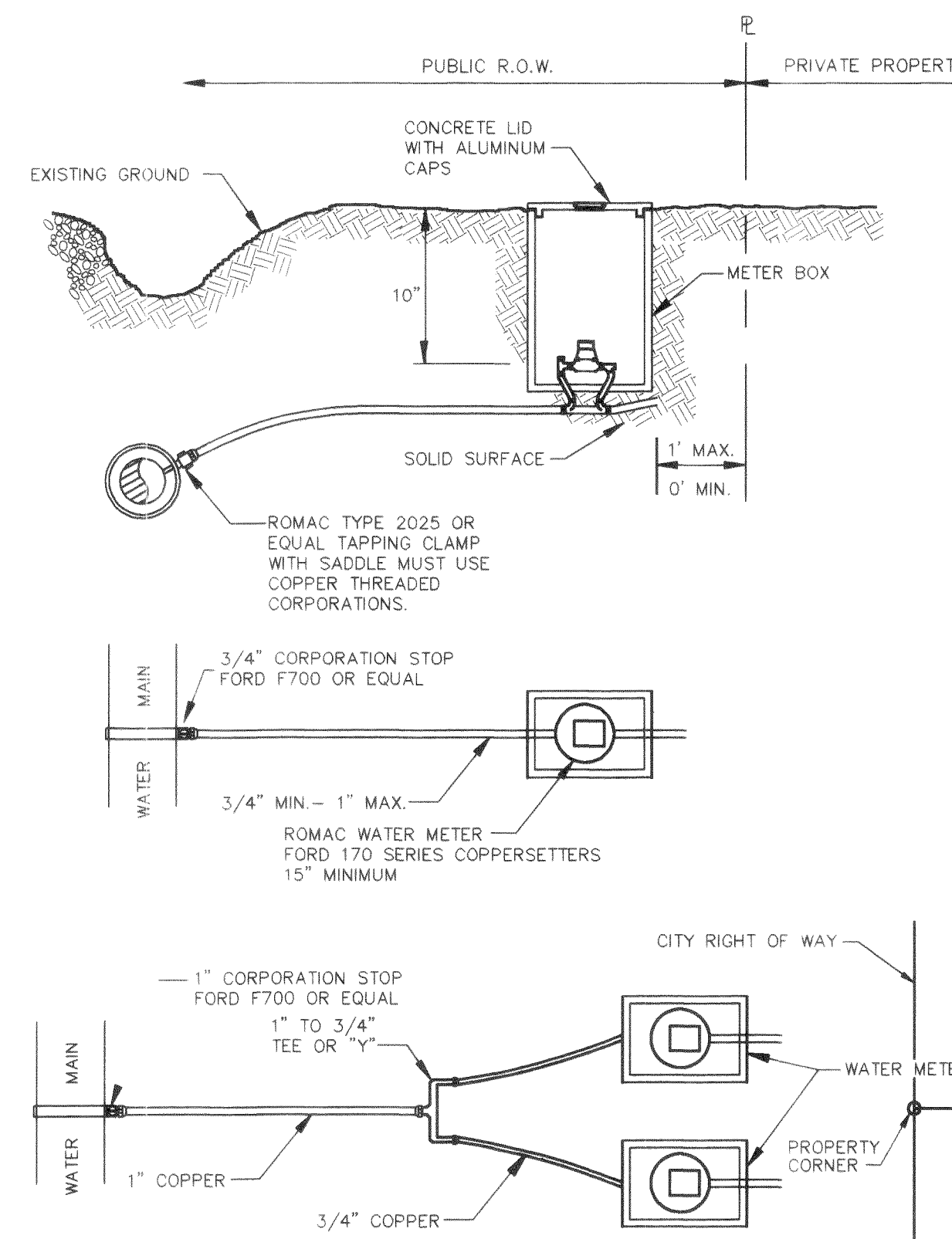
18 THRUST BLOCKING  
1 NTS



NOTE:  
2" BLOW-OFF TO BE USED WHEN MAIN WILL NOT BE EXTENDED FURTHER.  
REFER TO DWG. WA-3 FOR MAINS THAT CAN BE EXTENDED FURTHER.

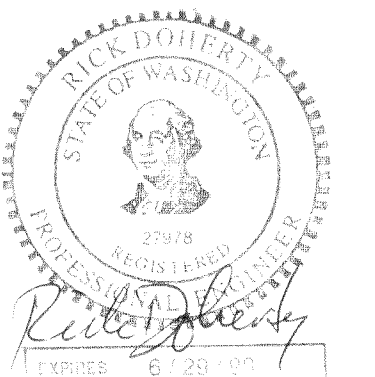
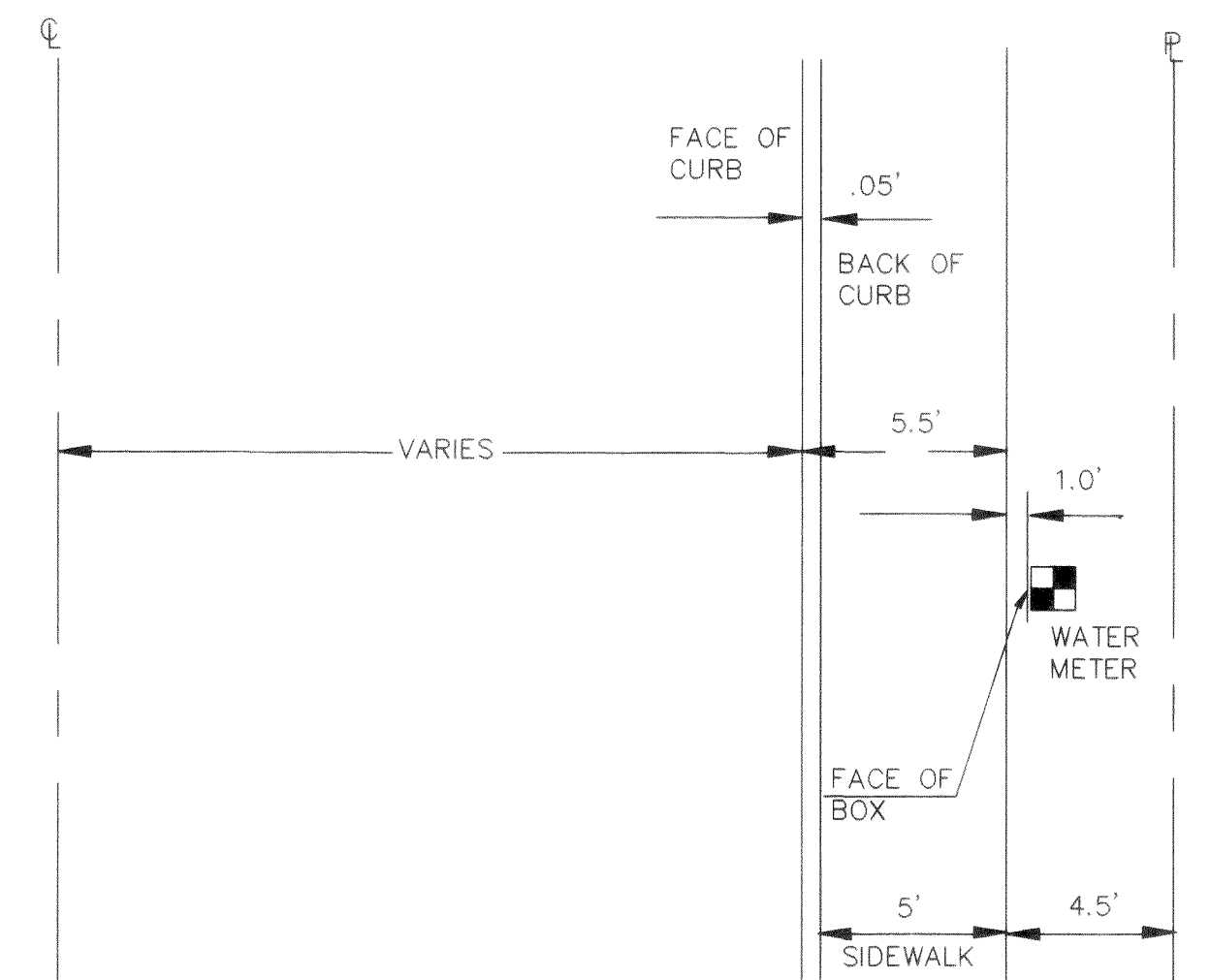
21  
1

2" BLOW-OFF  
NON-EXTENDABLE MAIN  
NTS



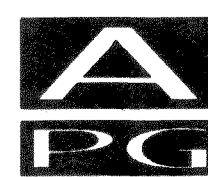
22 TYPICAL WATER SERVICE  
1 NTS

23 TYPICAL WATER METER LOCATION  
1 NTS



UPDATED: 02 OCT 95 TIME: 13:23 DWG: C:\DWG\2099RD16 TEP ISSUE IRB

|   |                 |     |       |
|---|-----------------|-----|-------|
|   |                 |     |       |
|   |                 |     |       |
|   |                 |     |       |
| 1 | RECORD DRAWINGS | RFF | 09/95 |



1911 "C" STREET  
BELLINGHAM, WA 98225  
PHONE: (360) 671-8200  
COUNTY: (360) 354-3723  
FAX: (360) 738-9367

**Ayers Professional Group, Inc.**

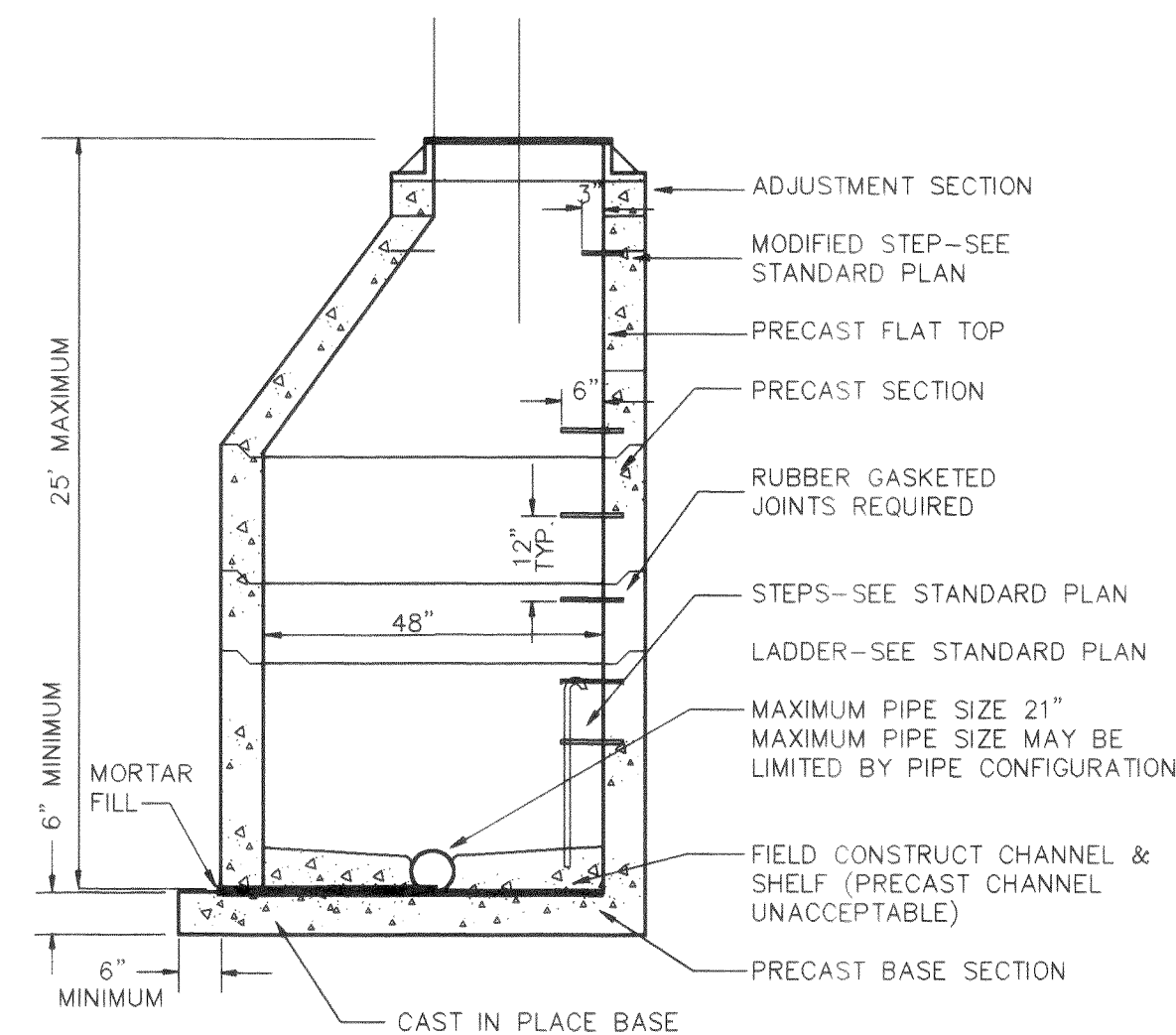
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| DESIGNED BY |  | DATE |          |
| DRAWN BY    |  | DATE | 09/12/95 |
| CHECKED BY  |  | DATE |          |

LAKERIDGE ESTATES

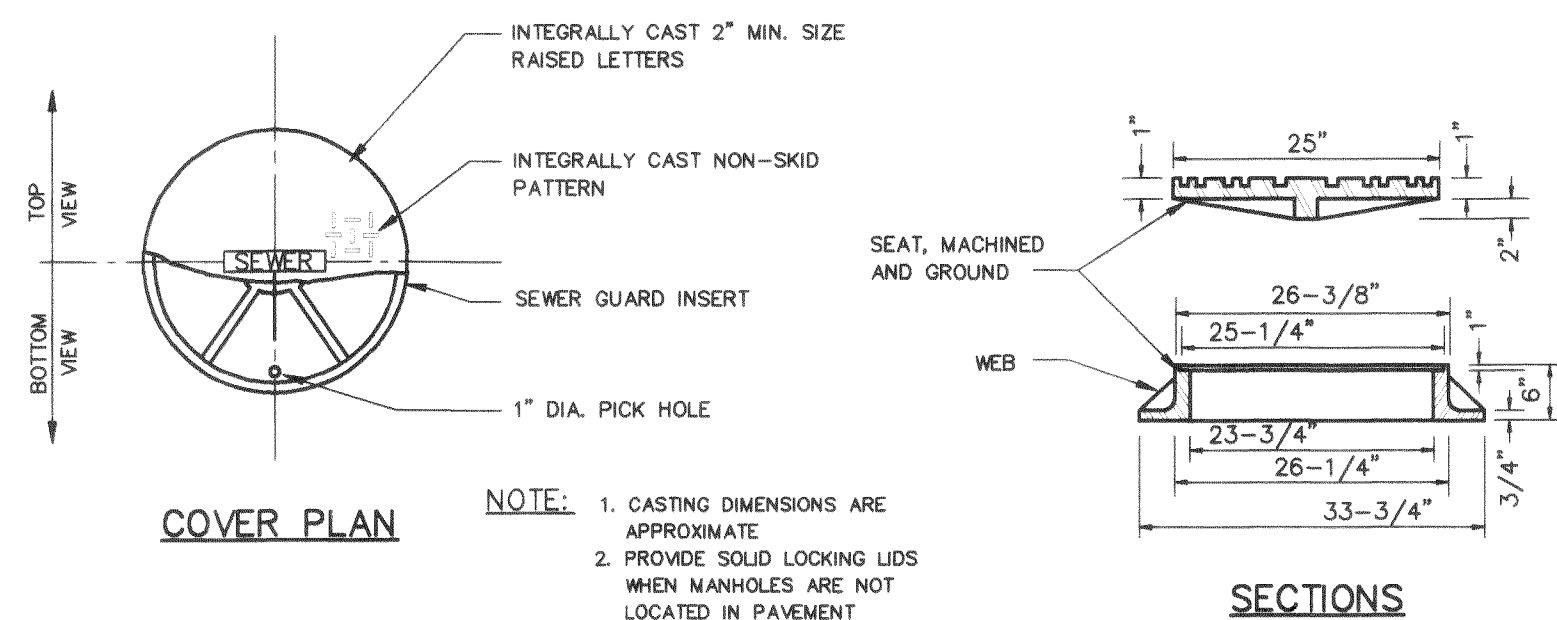
WATER DETAILS

|         |       |
|---------|-------|
| DATE    | SHEET |
| 9/12/95 | 16    |
| SCALE:  | OF    |
| S SHOWN | 17    |
| JOB NO. |       |
| 92099   |       |

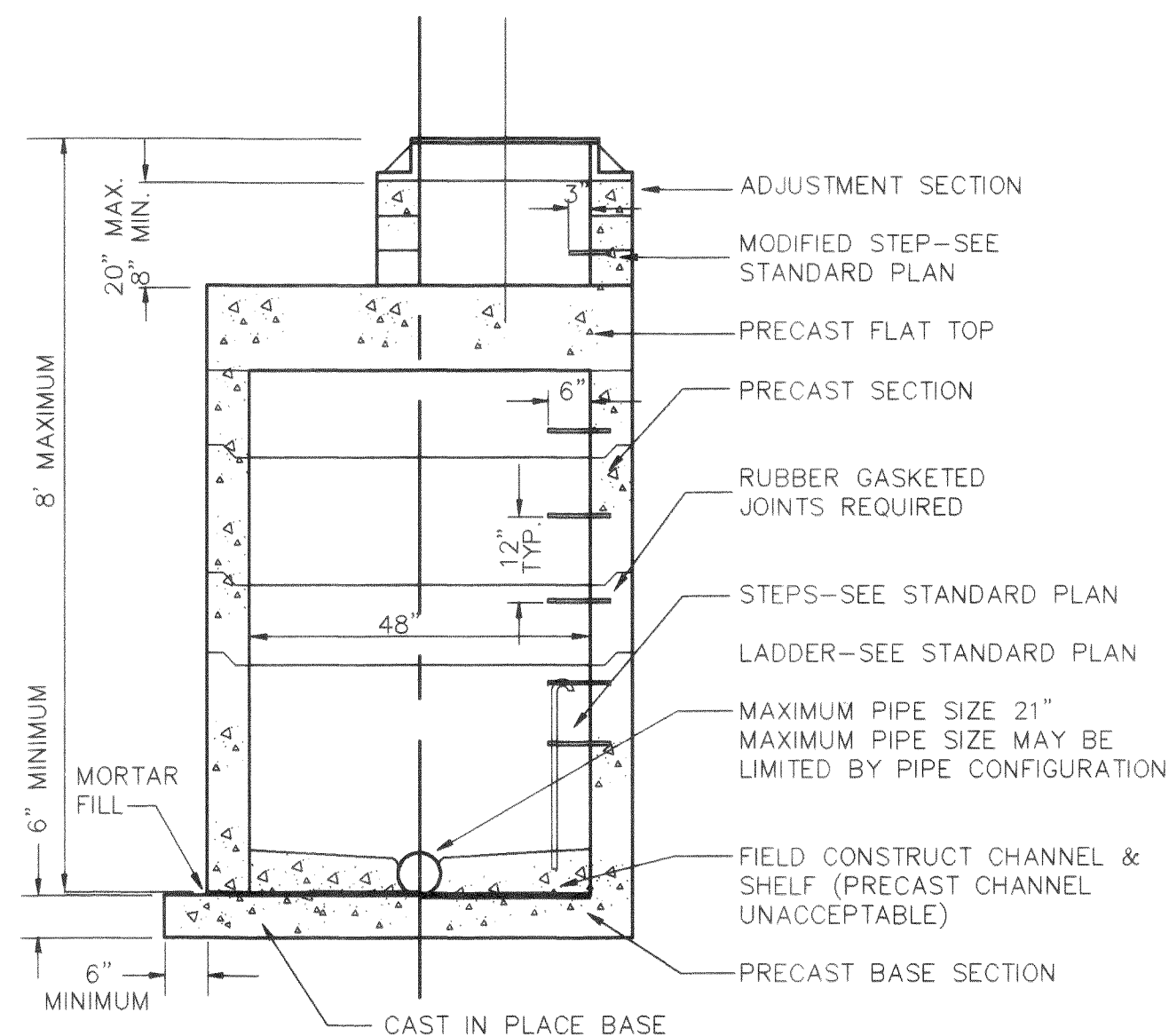




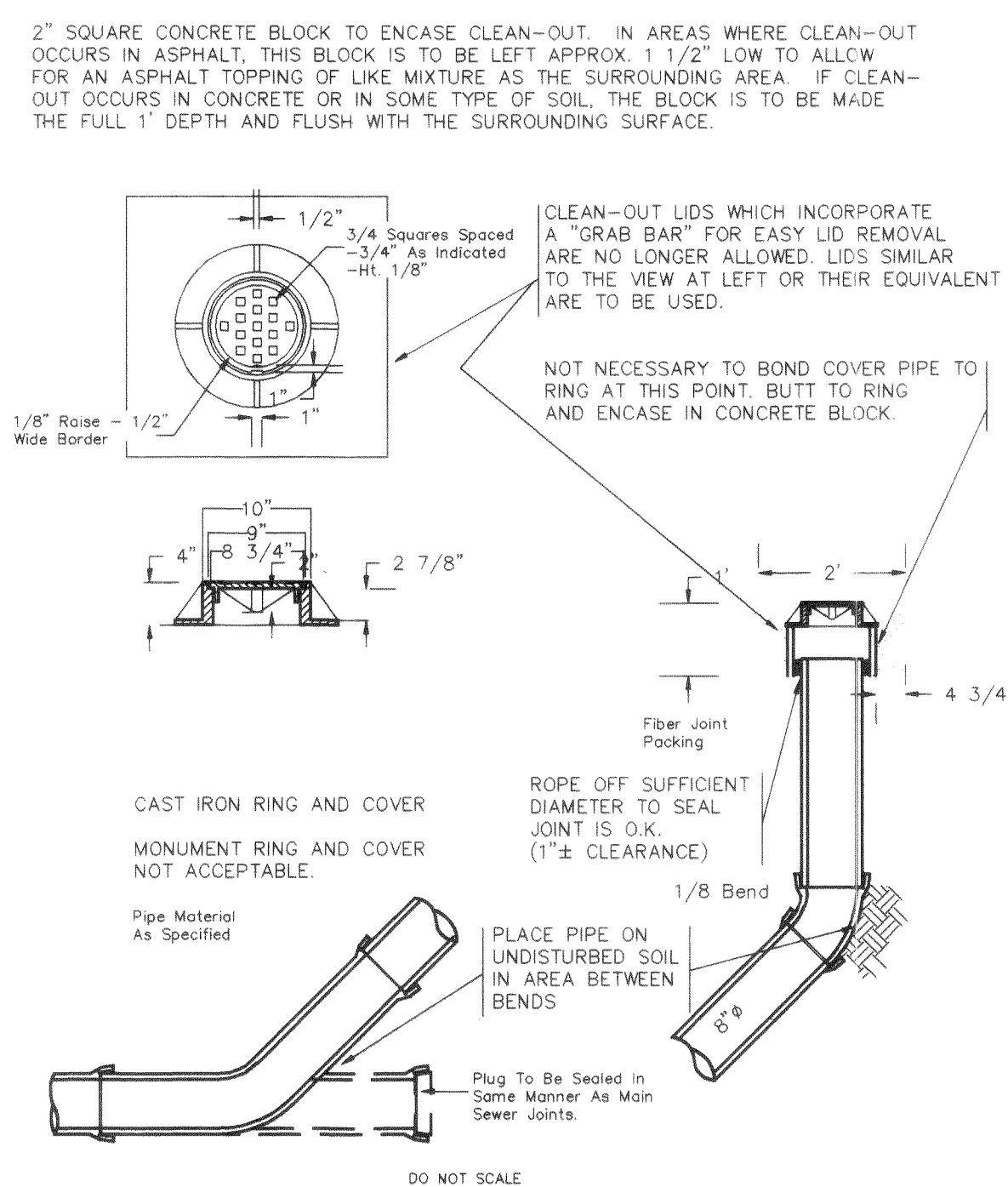
24 TYPE I - 48" MANHOLE  
1 NTS



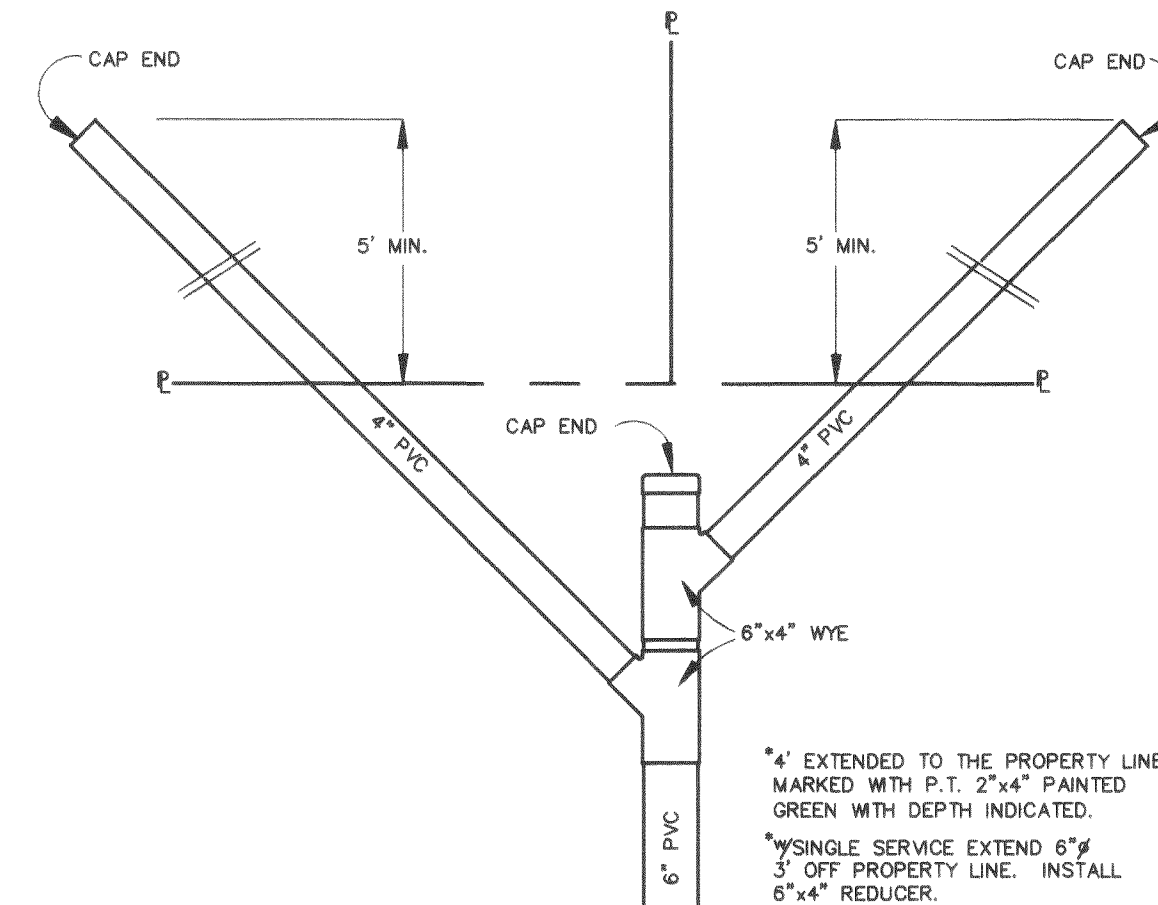
27 MANHOLE FRAME & COVER  
1 NTS



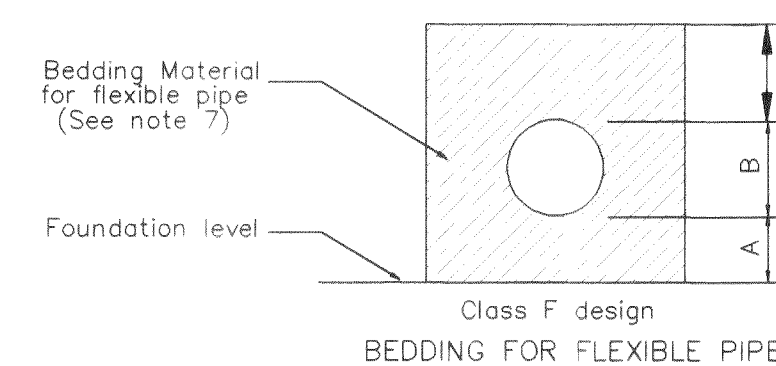
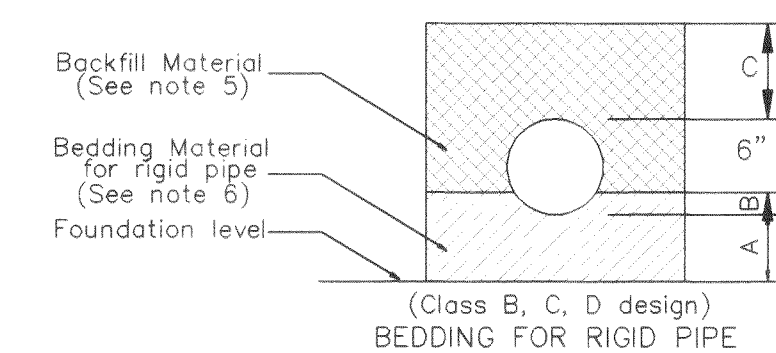
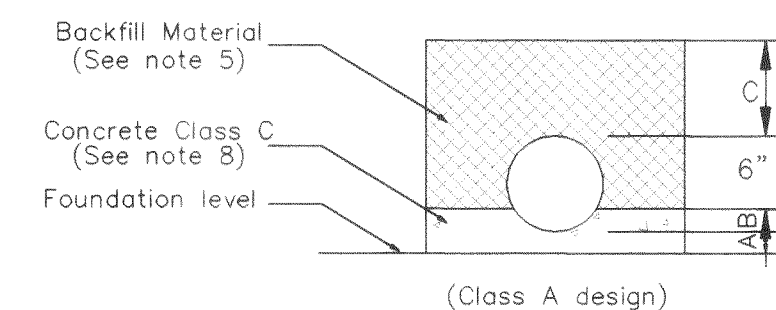
30 TYPE II - 48" MANHOLE  
1 NTS



25 8" CLEANOUT  
1 NTS



28 SEWER SERVICE DETAIL  
1 NTS

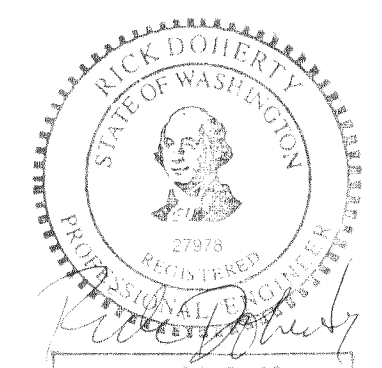


| BEDDING CLASS DESIGN |                                   |           |           |         |         |
|----------------------|-----------------------------------|-----------|-----------|---------|---------|
| DIMENSION            | CLASS A                           | CLASS B   | CLASS C   | CLASS D | CLASS F |
| A                    | 4" MIN.<br>1/4" I.D.<br>1/2" MAX. | *         | *         | Zero    | *       |
| B                    | 1/4" O.D.                         | 1/2" O.D. | 1/8" O.D. | Zero    | O.D.    |
| C                    | 3/4" O.D.                         | 1/2" O.D. | 7/8" O.D. | O.D.    | -       |

\* A = 4" MIN. 27" I.D. and under  
6" MIN. over 27" I.D.

SANITARY SEWER PIPE BEDDING

29 PVC PIPE BEDDING DETAIL  
1 NTS



RECORD DRAWING

UPDATED: 02 OCT 95 TIME: 13:31 DWG: C:\DWG\2099RD17.TEP ISSUE: IBS



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|             |     |      |          |
|-------------|-----|------|----------|
| DESIGNED BY | 1   | 2    | DATE     |
| DRAWN BY    | KLS | DATE | 09/12/95 |
| CHECKED BY  |     | DATE |          |

LAKERIDGE ESTATES

SANITARY SEWER DETAILS

|         |          |       |    |
|---------|----------|-------|----|
| DATE    | 09/12/95 | SHEET | 17 |
| SCALE:  | AS SHOWN | OF    | 17 |
| JOB NO. | 92099    |       |    |