

RECEIVED

Form No. 217  
1408

MAR 11 2008

Department of Water Resources

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
STATEMENT OF COMPLETION

FOR SUBMITTING PROOF OF BENEFICIAL USE

## FOR OFFICE USE ONLY

Amt. of Fee \$: 100.00  
Receipt No. 6080234  
Receipt By: CM  
Date Received: 3/11/08

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has completed all work that will occur for the development of a water right and that water has been applied to beneficial use(s) to the extent described below. This form must be accompanied by a license examination fee, when necessary, or accompanied by a completed Beneficial Use Field Report prepared by a certified water right examiner. If you no longer own the property and want to convey this permit to the new owner, please complete an Assignment of Permit form and send it to the Department with a \$25.00 filing fee. Assignment forms are available from any Department office or at [www.idwr.idaho.gov](http://www.idwr.idaho.gov).

1. Permit No. 63-31430 Telephone No. 466-2871  
2. Name of Permit Holder(s): RICHARD BROWN - BROWN CONST  
Mailing Address: 6881 BENNETT RD City Nampa  
State ID Zip 83686 Email: bcipipe@hotmail.com  
3. Source of Water: WELL If GROUND WATER (well), Date Drilled: mo. 10 / yr. 02  
Well Driller: ADAMSON Pump Drilling Drilling Permit Number: 773562

4. Extent of use(s) completed (as authorized by the water right permit):

Domestic (No. of households): 25 Stockwater (No. and type of stock): \_\_\_\_\_

Irrigation (No. of acres): \_\_\_\_\_ Other: \_\_\_\_\_

5. Total rate of diversion or storage volume for which proof is submitted: .23 cfs OR \_\_\_\_\_ acre-feet.

7. Compliance with a Measuring Device requirement and/or other Conditions of Permit: (Refer to the approval conditions on your permit and respond accordingly.)

Measuring Device: Is a measuring device required?

If yes, has the measuring device been installed?

|                                         |                             |
|-----------------------------------------|-----------------------------|
| Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Conditions of Permit: Does your permit require you to submit additional information in connection with your proof of beneficial use? (If yes, please list the conditions below and provide documents if necessary.)

Completed?

Yes ☐ or No ☐

Completed?

Yes ☐ or No ☐

Fee Enclosed: \$ 100.00 (See Fee Schedule on back of the Instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.)

8. Person to contact to accompany the Department representative during field examination of the water system.

Name: RICHARD BROWN Telephone Number: 880-2396Mailing Address: 6881 BENNETT RD City NampaState ID Zip 83686 Email: \_\_\_\_\_

10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder:

Richard Brown  
(include your title, if on behalf of company or organization)

Date:

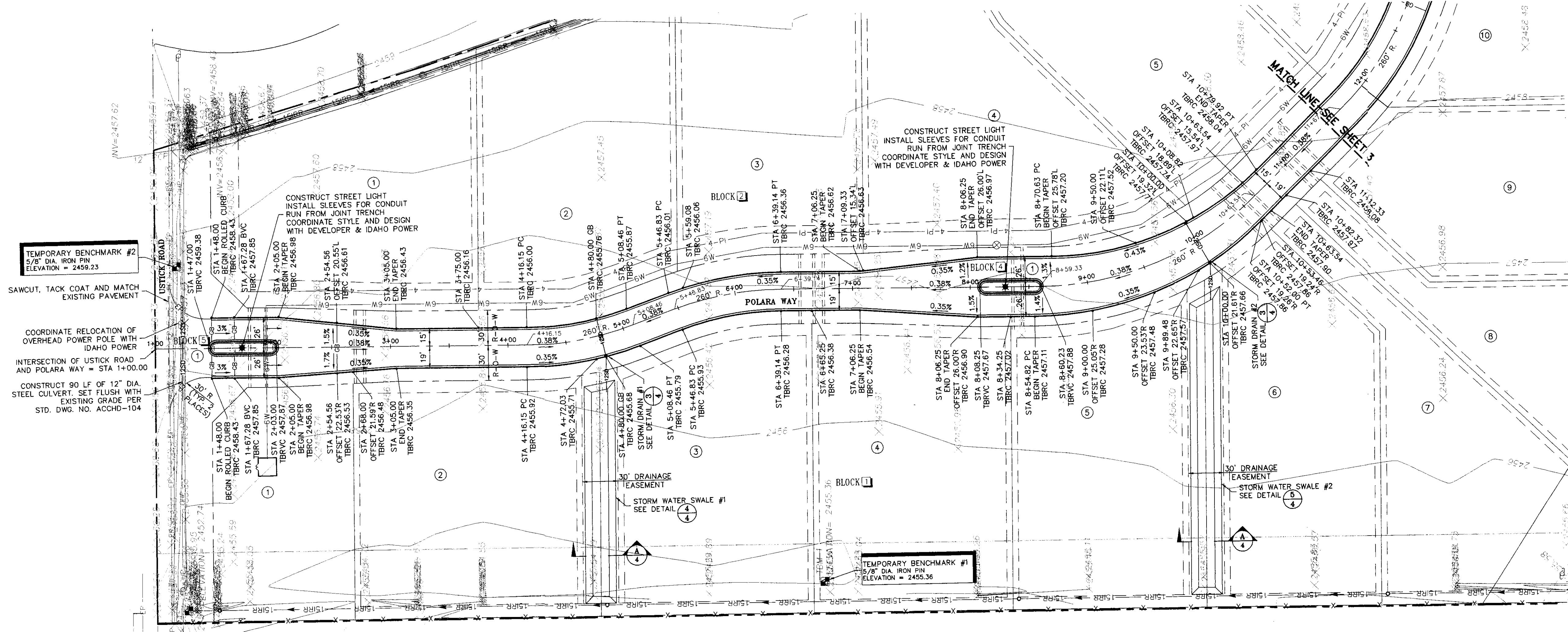
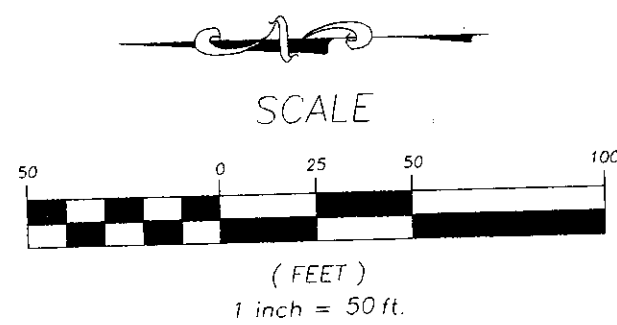
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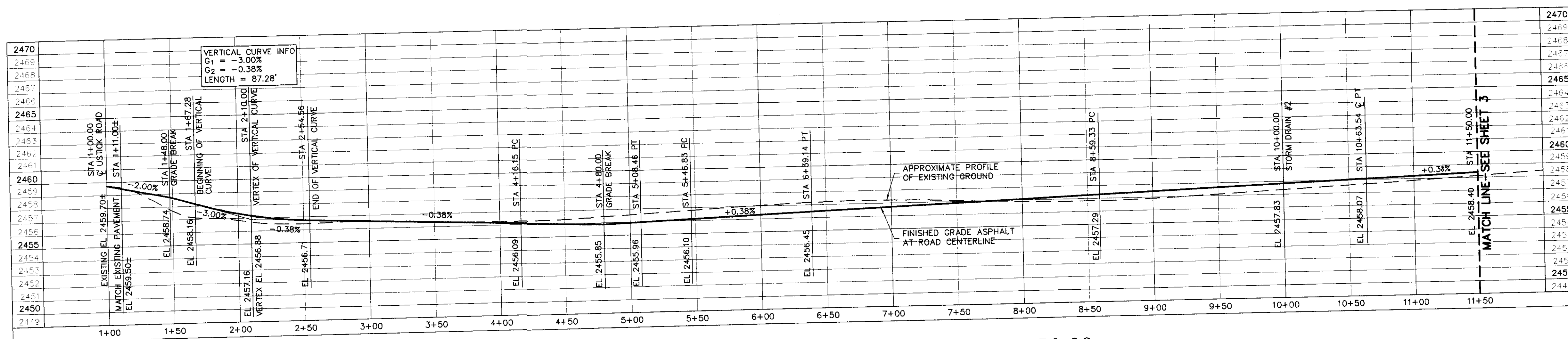
IDaho Dept of Water Resources

1:44PM

FEB. 21. 2008



STREET PLAN - STATION 1+00.00 TO 11+50.00  
SCALE: 1"=50'



STREET PROFILE - STATION 1+00.00 TO 11+50.00  
VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=50'

- NOTES:
1. SEE SHEET 1 FOR ADDITIONAL NOTES AND LEGEND.
  2. SEE SHEET 1 FOR ADDITIONAL BENCHMARKS.
  3. SEE SHEET 4 FOR TYPICAL STREET SECTIONS.

RECORD DOCUMENTS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, TREASURE VALLEY ENGINEERS CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PROPOSE.

| REVISIONS |  | No. | BY | DATE     | DESCRIPTION            |
|-----------|--|-----|----|----------|------------------------|
|           |  | 0   | DA | 08/01/02 | ISSUE FOR CONSTRUCTION |
|           |  | 1   | DA | 08/01/02 | REVISION               |

|                                   |  |                     |  |
|-----------------------------------|--|---------------------|--|
| SURVEYOR:                         |  | OWNER/DEVELOPER:    |  |
| Anderson-David & Associates, Inc. |  | David A. Hunemiller |  |
| Land Surveying Services           |  | 2715 IRONWOOD       |  |
| 1401 Shortline Drive              |  | NANPA, IDAHO 83687  |  |
| (208) 385-0068                    |  | (208) 941-1280      |  |

|                                                    |  |                       |  |
|----------------------------------------------------|--|-----------------------|--|
| TREASURE VALLEY ENGINEERS, INC.                    |  | PROFESSIONAL ENGINEER |  |
| 1117 CALDWELL BOULEVARD                            |  | 10077                 |  |
| NANPA, IDAHO 83651                                 |  | DATE OF EXPIRATION    |  |
| (208) 463-0066                                     |  | 10/01/03              |  |
| FAX (208) 463-4091                                 |  | STATE OF IDAHO        |  |
| EMAIL: tve@treasurevalleyengineers.com             |  | 10/01/03              |  |
| CIVIL/STRUCTURAL ENGINEERING                       |  | 10/01/03              |  |
| VISIT OUR WEBSITE: www.TreasureValleyEngineers.com |  | 10/01/03              |  |

|                                      |  |                  |  |
|--------------------------------------|--|------------------|--|
| TITLE: NORTHSIDE ESTATES SUBDIVISION |  | CHECKED BY: JAY  |  |
| STREET PLAN AND PROFILE (1 OF 2)     |  | SCALE: 1"=50'    |  |
| DESIGNED BY: LBW                     |  | DRAWN BY: DLP    |  |
| REV. 8                               |  | BRWING # 1284-00 |  |
| SHEET 2 OF 10                        |  | AS NOTED         |  |

# NORTHSIDE ESTATES SUBDIVISION DEVELOPMENT PLANS

## GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2002 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW) AS MODIFIED BY THE CITY OF NAMPA SUPPLEMENTAL SPECIFICATIONS AND STANDARDS (APRIL, 1997).
- THE CONTRACTOR SHALL CONFINE ALL WORK TO RIGHTS-OF-WAY AND EASEMENTS AND SHALL VERIFY THEIR LOCATIONS AND DIMENSIONS BEFORE BEGINNING WORK.
- A PRE-CONSTRUCTION CONFERENCE WILL BE HELD PRIOR TO START OF WORK. ALL CONTRACTORS, SUBCONTRACTORS, AND/OR UTILITY CONTRACTORS SHALL BE PRESENT.
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL COMPLY WITH IDAHO CODE CHAPTER 22, TITLE 55 REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGES AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. CALL DIGLINE INC. BEFORE COMMENCING ANY UNDERGROUND WORK, 342-1585.
- CONSTRUCTION STAKES WILL BE PROVIDED BY ANDERSON-DAVID & ASSOCIATES, INC., 363-0058. 48 HOURS NOTICE REQUIRED.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE AND IRRIGATION FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND SAFETY WITHIN AND AROUND THE CONSTRUCTION AREA.
- ALL UTILITY LINES SHALL BE INSTALLED PRIOR TO STREET CONSTRUCTION.
- RETAIN AND PROTECT ALL IRRIGATION AND DRAINAGE PIPE CROSSINGS. IF NECESSARY, THE PIPE WILL BE REPLACED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REPAVE TO EXISTING GRADE ANY EXISTING PAVED STREETS DISTURBED BY CONSTRUCTION.
- TOPOGRAPHICAL AND BOUNDARY MAPPING PROVIDED BY ANDERSON-DAVID & ASSOCIATES, INC., BOISE, IDAHO.

## STREET NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2002 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW) AND THE HIGHWAY STANDARDS AND DEVELOPMENT PROCEDURES FOR THE HIGHWAY DISTRICTS OF CANYON COUNTY, IDAHO.
- NO CONSTRUCTION SHALL BEGIN THE BEFORE PRECONSTRUCTION MEETING, WHICH THE CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO ATTEND.
- ALL UNDERGROUND UTILITIES AND SERVICE LINES SHALL BE INSTALLED PRIOR TO STREET CONSTRUCTION.
- ALL ROADWAYS CONSTRUCTED SHALL MEET THE MINIMUM REQUIREMENTS OF NAMPA HIGHWAY DISTRICT NO. 1.
- WHEN DISCREPANCIES OCCUR BETWEEN PLANS AND SPECIFICATIONS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. UNTIMELY NOTIFICATION SHALL NEGATE ANY CONTRACTOR'S CLAIM FOR ADDITIONAL COMPENSATION.
- THE TRENCH BACKFILL ABOVE THE PIPE ZONE WILL BE INSPECTED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ISPCW. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A 3RD PARTY FIRM FOR COMPACTION TEST SERVICES. COMPACTION TESTS SHALL BE REQUIRED IN THE BACKFILL ABOVE THE PIPE ZONE, WITHIN THE PUBLIC RIGHT-OF-WAY, IN ACCORDANCE WITH ISPCW AND RESULTS SHALL BE SUBMITTED TO THE HIGHWAY DISTRICT AND THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION TESTS. ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE BACKCHARGED TO THE CONTRACTORS BY THE OWNER.
- ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE BORNE BY THE CONTRACTOR. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.
- ALL STORM DRAINAGE APPURTENANCES SHALL BE INSPECTED AND CERTIFIED BY THE ENGINEER OF RECORD AND THE HIGHWAY DISTRICT.
- OVER EXCAVATION AND ADDITIONAL GRANULAR BACKFILL MAY BE REQUIRED IN HIGH GROUNDWATER AREAS WHICH ARE TO BE DETERMINED BY THE FIELD INSPECTOR.

## WATER NOTES

- THE WATER SYSTEM SHALL BE CONSTRUCTED TO CONFORM WITH THE STANDARDS SET FORTH IN THE "IDAHO REGULATIONS FOR PUBLIC DRINKING WATER SYSTEMS", AND IN THE 2002 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW) AS MODIFIED BY THE CITY OF NAMPA SUPPLEMENTAL SPECIFICATIONS AND STANDARDS (APRIL, 1997).
- THE HORIZONTAL SEPARATION OF THE WATER AND NON-POTABLE WATER MAINS SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR WATER AND NON-POTABLE WATER TO CROSS EACH OTHER AND THE NON-POTABLE MAIN IS LESS THAN 18" BELOW OR ABOVE THE WATER MAIN, THE NON-POTABLE WATER LINE CROSSING SHALL BE P.V.C. PRESSURE PIPE CONFORMING TO AWWA C-900, FOR A DISTANCE OF 10' FEET ON BOTH SIDES OF THE WATER LINE. ONE FULL LENGTH OF BOTH WATER MAIN AND NON-POTABLE WATER LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. IN LIEU OF CONSTRUCTING OR RECONSTRUCTING THE NON-POTABLE WATER TO CONFORM TO WATER MAIN STANDARDS, THE WATER LINE OR NON-POTABLE WATER LINE OR BOTH MAY BE ENCASED IN FOUR (4) INCHES OF CONCRETE, MEASURED AT THE BELL FOR A DISTANCE OF TEN (10) FEET ON BOTH SIDES OF THE WATER LINE.
- RECORD DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- PIPE BEDDING SHALL BE REJECT SAND MEETING ISPCW SEC. 305 STANDARDS AS PER THE CITY OF NAMPA.
- THE CONTRACTOR SHALL INSTALL THRUST BLOCKS AT WATER MAIN FITTINGS, AS REQUIRED. ALL THRUST BLOCKS SHALL BE SIZED AND PLACED IN ACCORDANCE WITH ISPCW STANDARD DRAWING SD-403.
- THE CONTRACTOR SHALL PRESSURE TEST ALL WATER MAINS IN ACCORDANCE WITH ISPCW SECTION 401.3.6. THE MINIMUM TEST PRESSURE SHALL BE 150 PSI.
- ALL WATER LINES SHALL BE DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE CITY OF NAMPA SUPPLEMENTAL SPECIFICATIONS TO ISPCW. THE DISINFECTION AND FINAL FLUSHING PROCEDURES SHALL BE TESTED TO DETERMINE IF THE APPROPRIATE MINIMUM CHLORINE (CL2) RESIDUALS HAVE BEEN EXCEEDED.

## PRESSURE IRRIGATION NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2002 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW) AS MODIFIED BY THE CITY OF NAMPA SUPPLEMENTAL SPECIFICATIONS AND STANDARDS (APRIL, 1997).
- THE CONTRACTOR SHALL CALL DIGLINE AT 342-1585 FOR LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY PROJECT ENGINEER OF ANY CONFLICTS NOT SHOWN ON THE PLANS.
- THE HORIZONTAL SEPARATION BETWEEN WATER LINES AND NON-POTABLE LINES (INCLUDING SEWER, STORM DRAINS, AND IRRIGATION) SHALL BE 10 FEET. WHERE IT IS NECESSARY FOR NON-POTABLE LINES AND WATER LINES TO CROSS EACH OTHER, AND THE NON-POTABLE LINE IS LESS THAN EIGHTEEN (18) INCHES BELOW OR ABOVE WATER MAIN, THE NON-POTABLE LINE SHALL BE CLASS 150 C900 PVC PIPE AND WATER-TIGHT JOINTS OR EQUAL CONSTRUCTION, FOR A DISTANCE OF TEN (10) FEET ON BOTH SIDES OF WATER LINE IN ACCORDANCE WITH SECTION 1-8305.09 OF THE IDAHO REGULATIONS FOR PUBLIC DRINKING WATER SYSTEMS. ONE FULL LENGTH OF BOTH WATER AND NON-POTABLE LINES SHALL BE CENTERED AT THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. IN LIEU OF CONSTRUCTING OR RECONSTRUCTING THE NON-POTABLE TO CONFORM TO WATER MAIN STANDARDS, THE WATER LINE OR BOTH MAY BE ENCASED IN FOUR (4) INCHES OF CONCRETE, MEASURED AT THE BELL.
- CROSSINGS OF WATER AND IRRIGATION LINES ARE TO BE TREATED THE SAME AS INTERSECTING WATER AND SEWER LINES.
- ALL IRRIGATION MAINS SHALL HAVE A MINIMUM OF 30" OF COVER FROM FINISHED GRADE TO TOP OF PIPE.
- ALL MAIN PIPE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 107-1 OF THE CITY OF NAMPA SUPPLEMENTAL STANDARDS.
- LOCATING MARKER TAPE SHALL BE INSTALLED WITH ALL IRRIGATION MAINS. TAPE SHALL BE 2" WIDE, PURPLE, MARKED "CAUTION - BURIED IRRIGATION WATER LINE" ALONG THE ENTIRE LENGTH OF THE TAPE. THE TAPE SHALL BE PLACED BETWEEN 12" AND 18" ABOVE THE TOP OF THE PIPE.
- LOCATOR WIRE SHALL BE INSTALLED WITH ALL PRESSURE IRRIGATION MAINS. WIRE SHALL BE EXTENDED TO THE SURFACE AT ALL VALVE BOXES AND SERVICES. WIRE SHALL BE 12 GAUGE FOR DIRECT BURY. ALL CONNECTIONS SHALL BE WITH DRIP SPLICE CONNECTORS OR APPROVED EQUAL. WIRE SHALL BE FASTENED TO THE TOP SIDE OF THE PIPE AT MAXIMUM INTERVAL OF 10 FEET.
- CONTRACTOR SHALL INSTALL FIBERGLASS STAKES LABELED WARNING: PRESSURIZED IRRIGATION MAIN". INSTALL ONE STAKE AT EACH LOT LINE AND ONE STAKE AT EACH RIGHT OF WAY LINE WHEN CROSSING STREETS. STAKES SHALL BE CARBONITE OR EQUAL - METROQUIP, INC., BOISE.
- VALVE BOXES SHALL BE STAMPED "IRRIGATION" PER CITY OF NAMPA STD. SECT. 1107-5.
- CONTRACTOR TO INSTALL DURABLE TAG TO EACH IRRIGATION LINE INDICATING NON-POTABLE WATER.
- THE IRRIGATION MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH CITY OF NAMPA STD SECTION 1103.
- ALL PRESSURE IRRIGATION PIPE SHALL BE SDR 26 IN ACCORDANCE WITH ISPCW 901.2.2.

## GRAVITY IRRIGATION/DRAINAGE NOTES

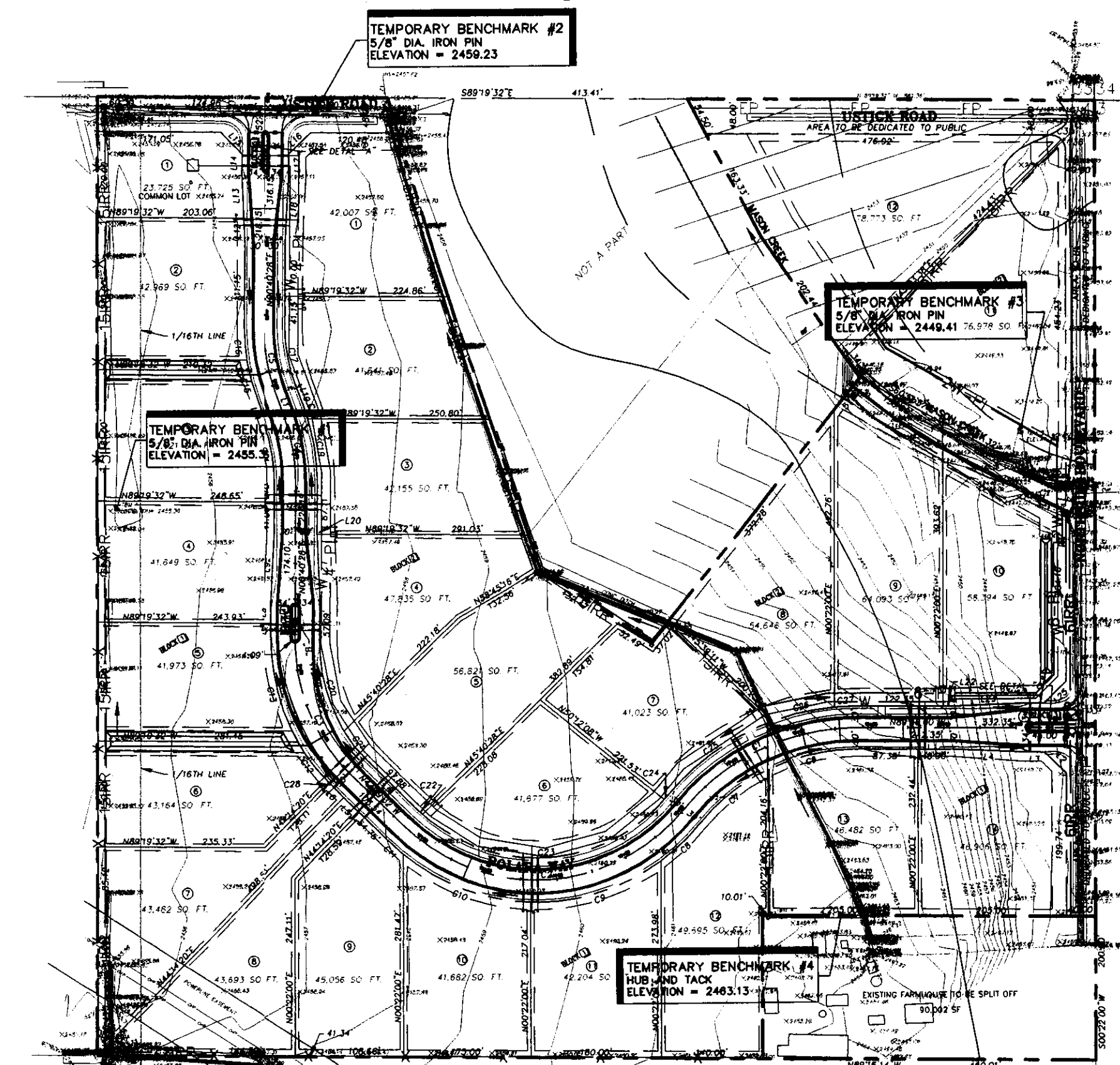
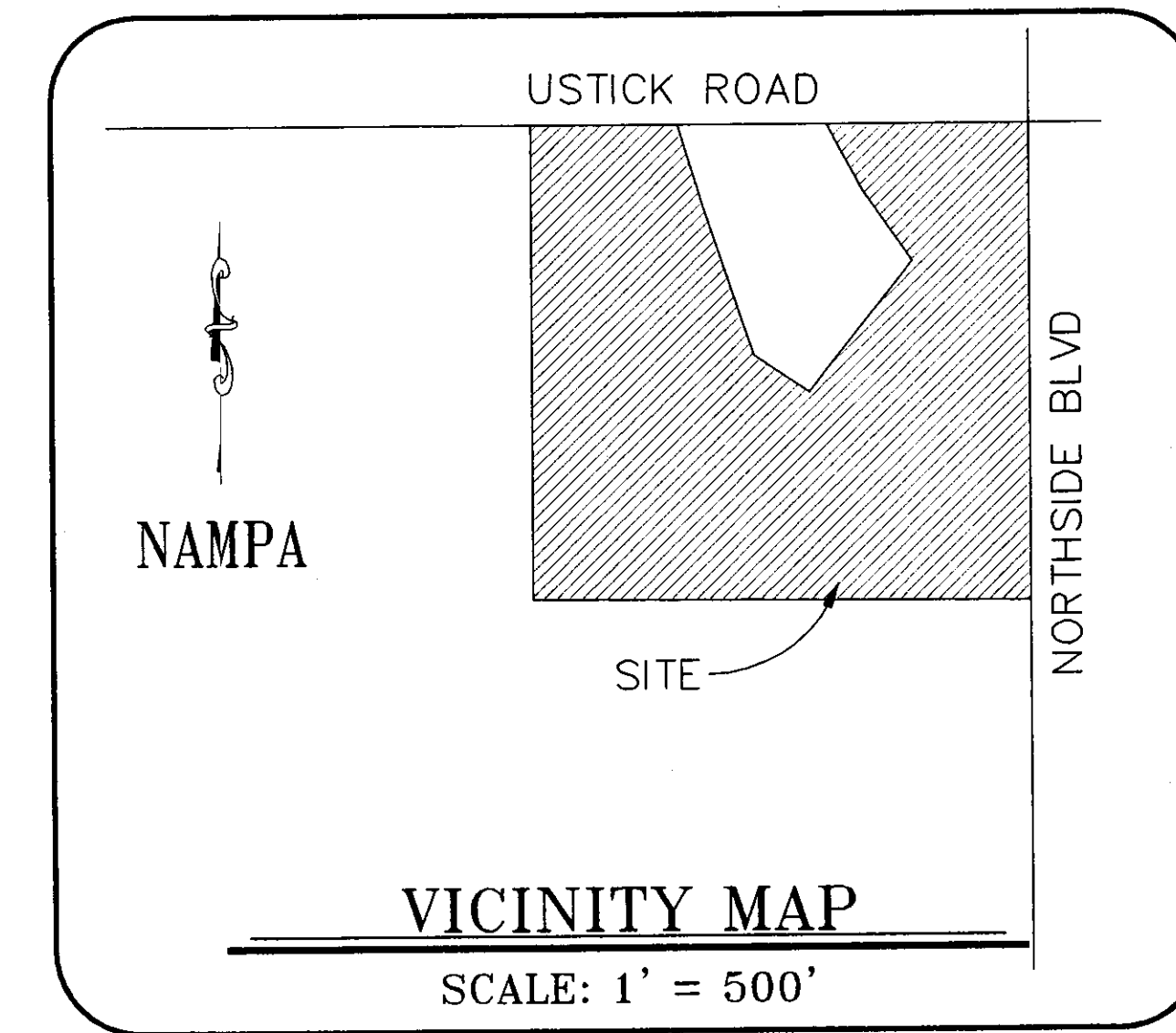
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- CROSSINGS OF WATER AND IRRIGATION LINES ARE TO BE TREATED THE SAME AS INTERSECTING WATER AND SEWER LINES.
- STORM DRAINAGE AND CONTINUATION OF FLOOD IRRIGATION DITCHES OR DRAINS, SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT REQUIREMENTS OF THE IRRIGATION AND/OR DRAINAGE DISTRICT.
- ALL GRAVITY IRRIGATION/DRAINAGE PIPE AND FITTINGS SHALL BE RIBBED PVC PIPE IN ACCORDANCE WITH ISPCW 601.2.2.C.

## LEGEND

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| ---   | PROPERTY LINE                                                      |
| ---   | LOT LINE                                                           |
| ---   | GENERAL UTILITY, DRAINAGE, LANDSCAPE AND IRRIGATION EASEMENT LINE: |
| ---   | 10' WIDE - ADJACENT TO STREETS (UNO)                               |
| ---   | 10' WIDE - ADJACENT TO REAR OF LOTS (UNO)                          |
| ---   | 5' SIDE - SIDE LOT LINES (UNO)                                     |
| ---   | CENTER LINE                                                        |
| ---   | ROAD RIGHT-OF-WAY                                                  |
| ---   | NEAT CUT LINE                                                      |
| ---   | PROPOSED EDGE OF PAVEMENT                                          |
| 6W    | PROPOSED 6" WATER MAIN                                             |
| 1W    | PROPOSED 1" WATER SERVICE                                          |
| 2W    | PROPOSED 2" WATER SERVICE                                          |
| 6-PI  | PROPOSED 6" PRESSURE IRRIGATION                                    |
| 4-PI  | PROPOSED 4" PRESSURE IRRIGATION                                    |
| 2-PI  | PROPOSED 2" PRESSURE IRRIGATION                                    |
| 15IRR | PROPOSED 15" GRAVITY IRRIGATION                                    |
| 12IRR | PROPOSED 12" GRAVITY IRRIGATION                                    |
| 8IRR  | PROPOSED 8" GRAVITY IRRIGATION                                     |
| 6GP   | PROPOSED 6" GATED PIPE                                             |
| X     | PROPOSED FENCE                                                     |
| 12SD  | PROPOSED 12" STORM DRAIN                                           |
| ---   | EXISTING EDGE OF PAVEMENT                                          |
| CHP   | EXISTING OVERHEAD POWER                                            |
| X     | EXISTING FENCE                                                     |
| 2450  | 1 FOOT CONTOUR INTERVAL                                            |
| X     | EXISTING DITCH FLOW LINE                                           |
| X     | EXISTING POWER POLE                                                |
| X     | BENCHMARK                                                          |
| X     | SPOT ELEVATION                                                     |
| X     | PROPOSED WATER METER                                               |
| X     | PROPOSED DIRECTION OF DRAINAGE FLOW                                |
| X     | PROPOSED GRAVITY IRRIGATION MANHOLE                                |
| X     | PROPOSED GRAVITY IRRIGATION BOX                                    |
| X     | PROPOSED PRESSURE IRRIGATION SERVICE                               |
| 2     | LOT #                                                              |
| 1     | BLOCK #                                                            |
| 2     | SHEET #                                                            |
| TH-3  | TEST PIT                                                           |
| X     | PROPOSED BLOWOFF FOR WATER/IRRIGATION                              |
| X     | PROPOSED IRRIGATION PUMPOUT                                        |

## STREET LEGEND

|     |                                                        |
|-----|--------------------------------------------------------|
| --- | ROLLED CONCRETE CURB AND GUTTER TO BE CONSTRUCTED      |
| --- | REVERSE LIP CONCRETE CURB AND GUTTER TO BE CONSTRUCTED |
| --- | ELEVATION CENTERLINE STATION (UNO)                     |
| --- | DESIGN TOP BACK OF ROLLED CURB                         |
| --- | ELEVATION CENTERLINE STATION (UNO)                     |
| --- | DESIGN TOP BACK OF REVERSE LIP VERTICAL CURB           |
| --- | CATCH BASIN TO BE CONSTRUCTED                          |
| --- | GRADE BREAK                                            |
| --- | STREET LIGHT                                           |



GENERAL SITE LAYOUT  
FOR INFORMATIONAL PURPOSES ONLY  
DO NOT SCALE - SEE FINAL PLAT FOR DIMENSIONS

## RECORD DOCUMENTS

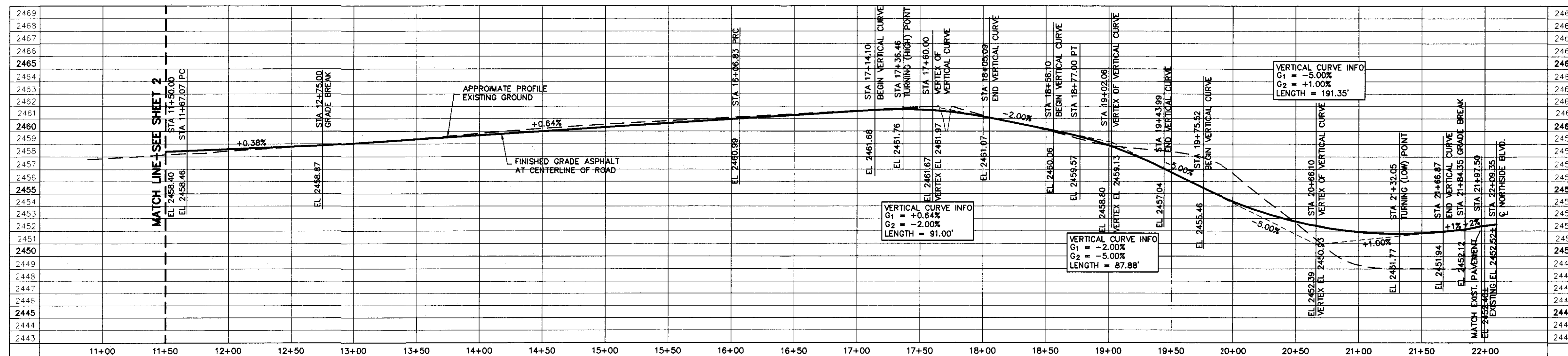
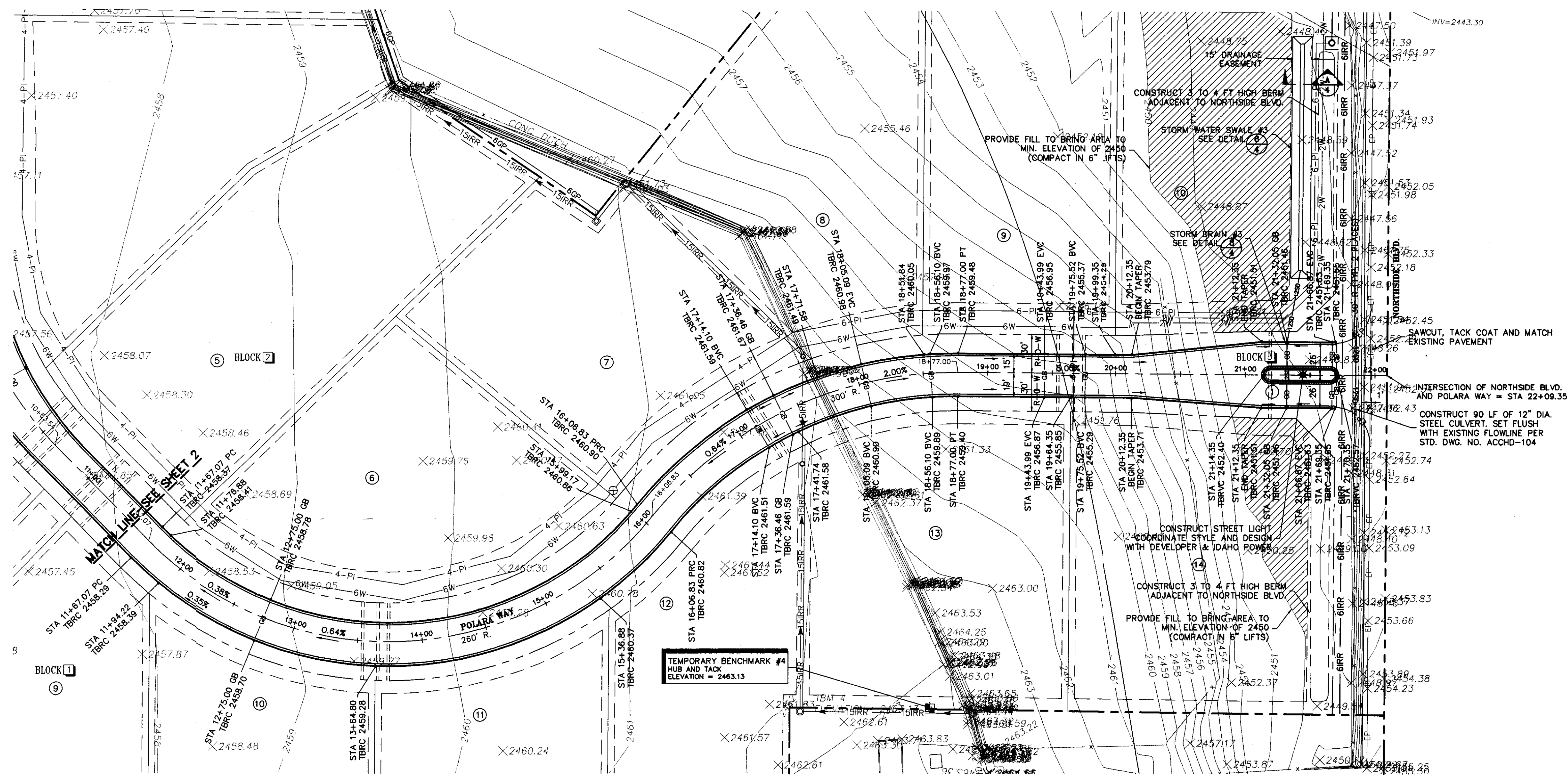
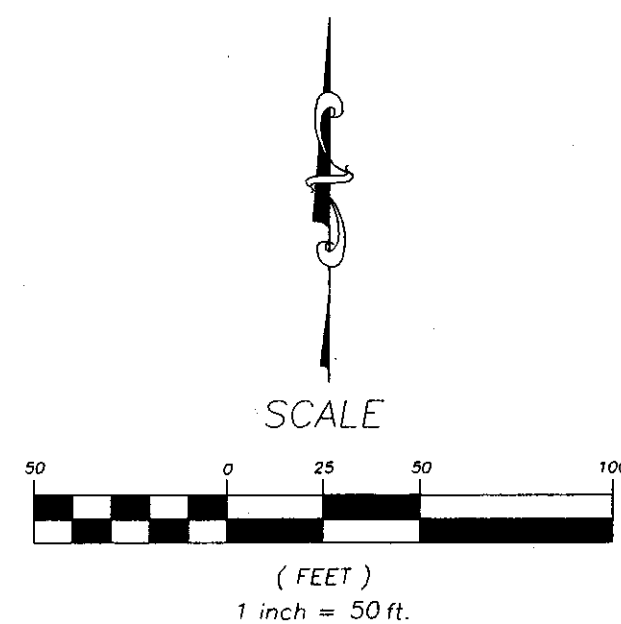
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## DRAWING INDEX

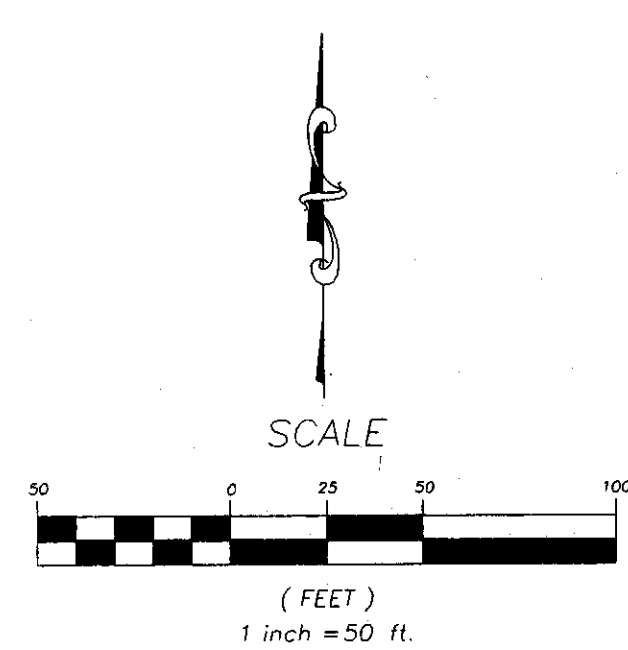
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|----------------------------------------|----|
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MAR 11 2008  
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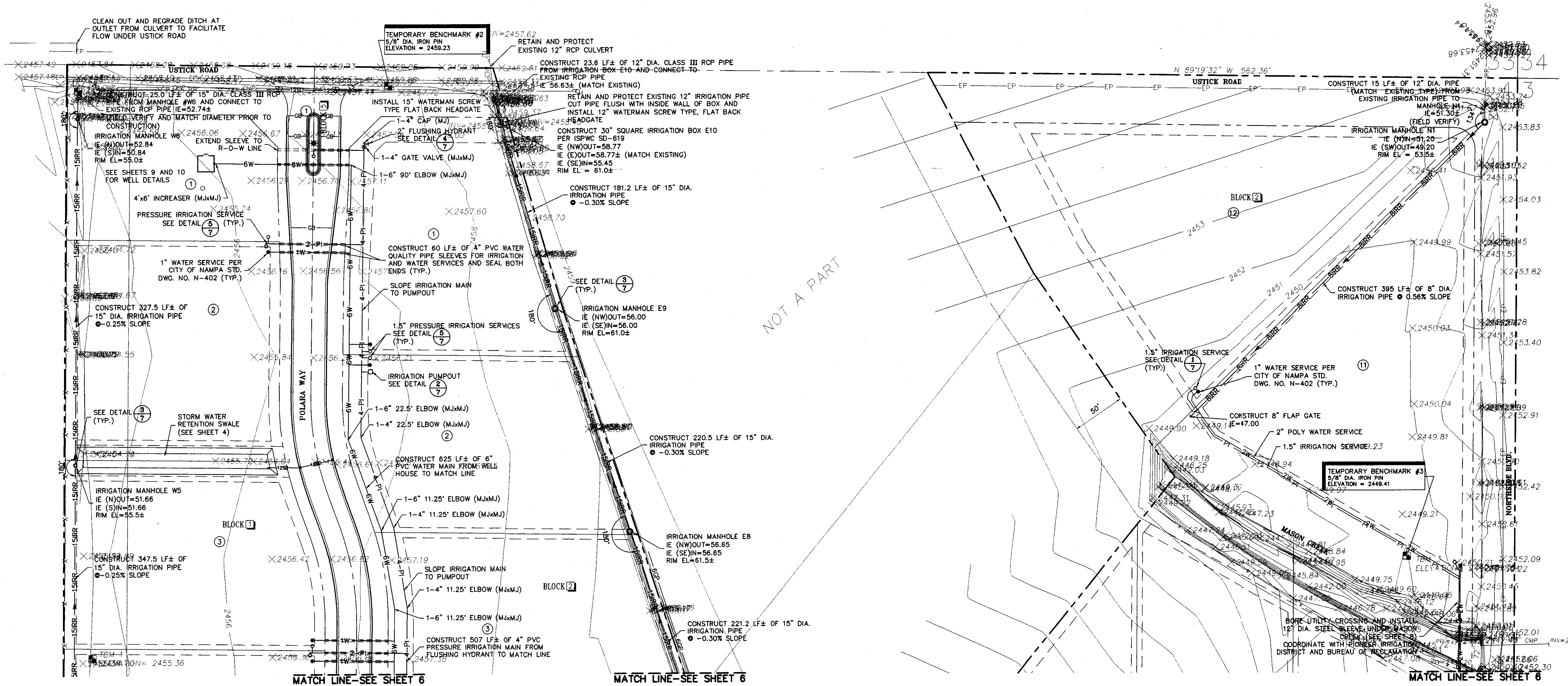
| DESCRIPTION                                            | DATE     | NO. | BY  | REVISIONS | SURVEYOR                                                                                                                     | OWNER/DEVELOPER                                                              | ENGINEER                                                                                                                                             | DESIGNED BY        | CHECKED BY        | SCALE             | AS NOTED |
|--------------------------------------------------------|----------|-----|-----|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|-------------------|----------|
| ISSUE FOR CONSTRUCTION                                 | 07/04/08 | 0   | JAY |           | Anderson-David & Associates, Inc.<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 385-0068 | David A. Hunemiller<br>2715 IRONWOOD<br>NAMPA, IDAHO 83687<br>(208) 941-1280 | TREASURE VALLEY ENGINEERS, INC.<br>1117 CALDWELL BOULEVARD<br>NAMPA, IDAHO 83651<br>(208) 468-0305<br>FAX (208) 468-4391<br>EMAIL: treval@treval.com | DESIGNED BY<br>LAW | CHECKED BY<br>JAY | SCALE<br>AS NOTED | AS NOTED |
| TITLE: NORTHSIDE ESTATES SUBDIVISION DEVELOPMENT PLANS |          |     |     |           |                                                                                                                              |                                                                              |                                                                                                                                                      |                    |                   |                   |          |
| SHEET 1 OF 10                                          |          |     |     |           |                                                                                                                              |                                                                              |                                                                                                                                                      |                    |                   |                   |          |



|               |  |                                                                   |  |                                                                                                               |  |                                                                                       |  |                                                                                                                                                           |  |                                                                                                      |  |                                                                                                                                                                                                                                           |  |                                      |  |                         |  |
|---------------|--|-------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--|-------------------------|--|
| TITLE:        |  | NORTHSIDE ESTATES SUBDIVISION<br>STREET PLAN AND PROFILE (2 OF 2) |  | REGISTERED PROFESSIONAL ENGINEER<br>(LICENSED)<br>10077<br>DATE OF EXPIRATION<br>10/1/03<br>LIC. NO.<br>10077 |  |  |  | TREASURE VALLEY ENGINEERS, INC.<br>1117 OLDFIELD BOULEVARD<br>NAMPA, IDAHO 83651<br>(208) 453-0905<br>FAX (208) 453-4391<br>EMAIL: tre@treasurevalley.com |  | OWNER/DEVELOPER:<br><br>David A. Hunemiller<br>2715 IRONWOOD<br>NAMPA, IDAHO 83667<br>(208) 941-1280 |  | SURVEYOR:<br><br>Anderson-David & Associates, Inc. $\oplus$<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 368-0068 |  | REVISIONS                            |  | No. BY DATE DESCRIPTION |  |
|               |  |                                                                   |  |                                                                                                               |  |                                                                                       |  |                                                                                                                                                           |  |                                                                                                      |  |                                                                                                                                                                                                                                           |  | 0 DA 08/26/02 ISSUE FOR CONSTRUCTION |  |                         |  |
|               |  |                                                                   |  |                                                                                                               |  |                                                                                       |  |                                                                                                                                                           |  |                                                                                                      |  |                                                                                                                                                                                                                                           |  | 1 DA 01/11/03                        |  | REVISION                |  |
| SHEET 3 OF 10 |  | DRAWING # 1284-00                                                 |  | SCALE:                                                                                                        |  |                                                                                       |  |                                                                                                                                                           |  |                                                                                                      |  |                                                                                                                                                                                                                                           |  |                                      |  |                         |  |
|               |  |                                                                   |  | AS NOTED                                                                                                      |  |                                                                                       |  |                                                                                                                                                           |  |                                                                                                      |  |                                                                                                                                                                                                                                           |  |                                      |  |                         |  |



- NOTES:
1. SEE SHEET 1 FOR ADDITIONAL NOTES AND LEGEND.
  2. ADD 2400 FT. TO ELEVATIONS WHERE REQUIRED TO ACHIEVE TRUE ELEVATIONS.
  3. WATER SERVICES TO LOTS 11 AND 12 OF BLOCK 2 WILL BE 2" DIA. TO REDUCE HEADLOSS DUE TO RUN LENGTH. ALL OTHER POTABLE WATER SERVICES WILL BE 1" DIA.

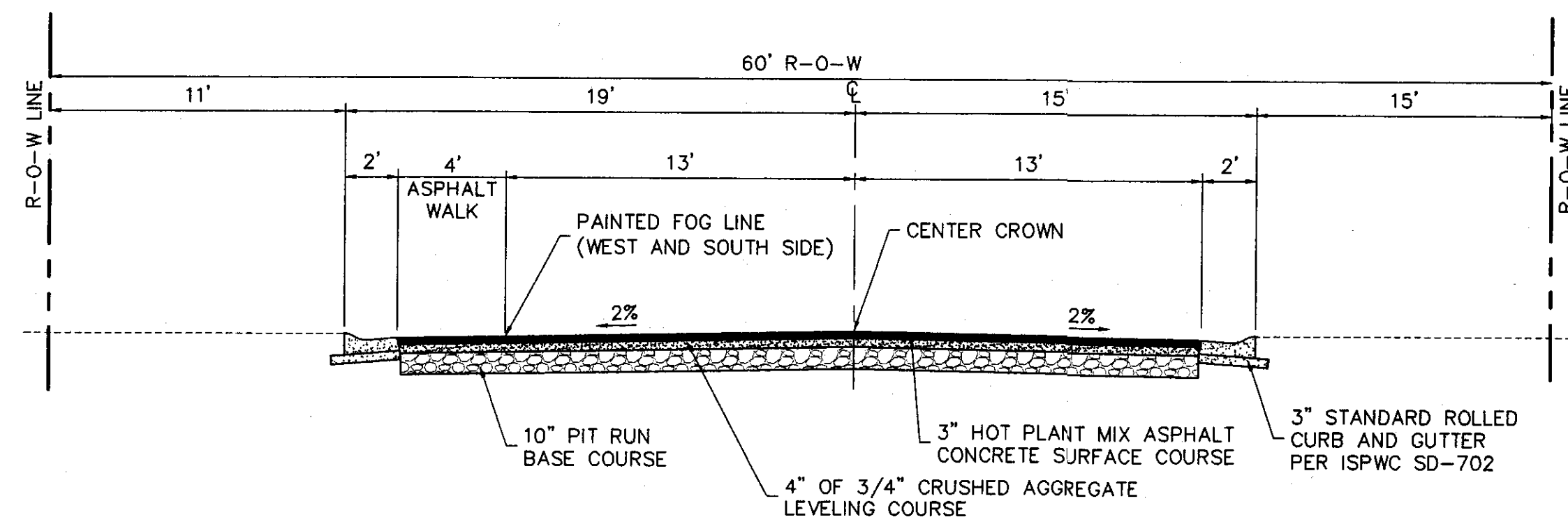


UTILITY PLAN (SHEET 1 OF 2)  
SCALE: 1"=50'

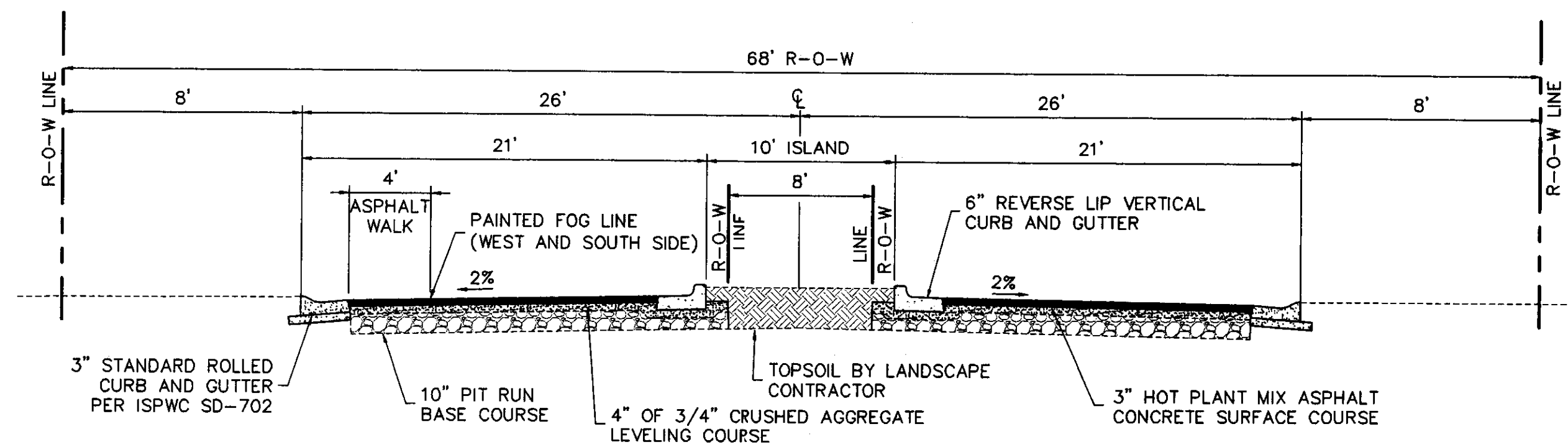
RECORD DOCUMENTS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, TREASURE VALLEY ENGINEERS CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PROPOSE.

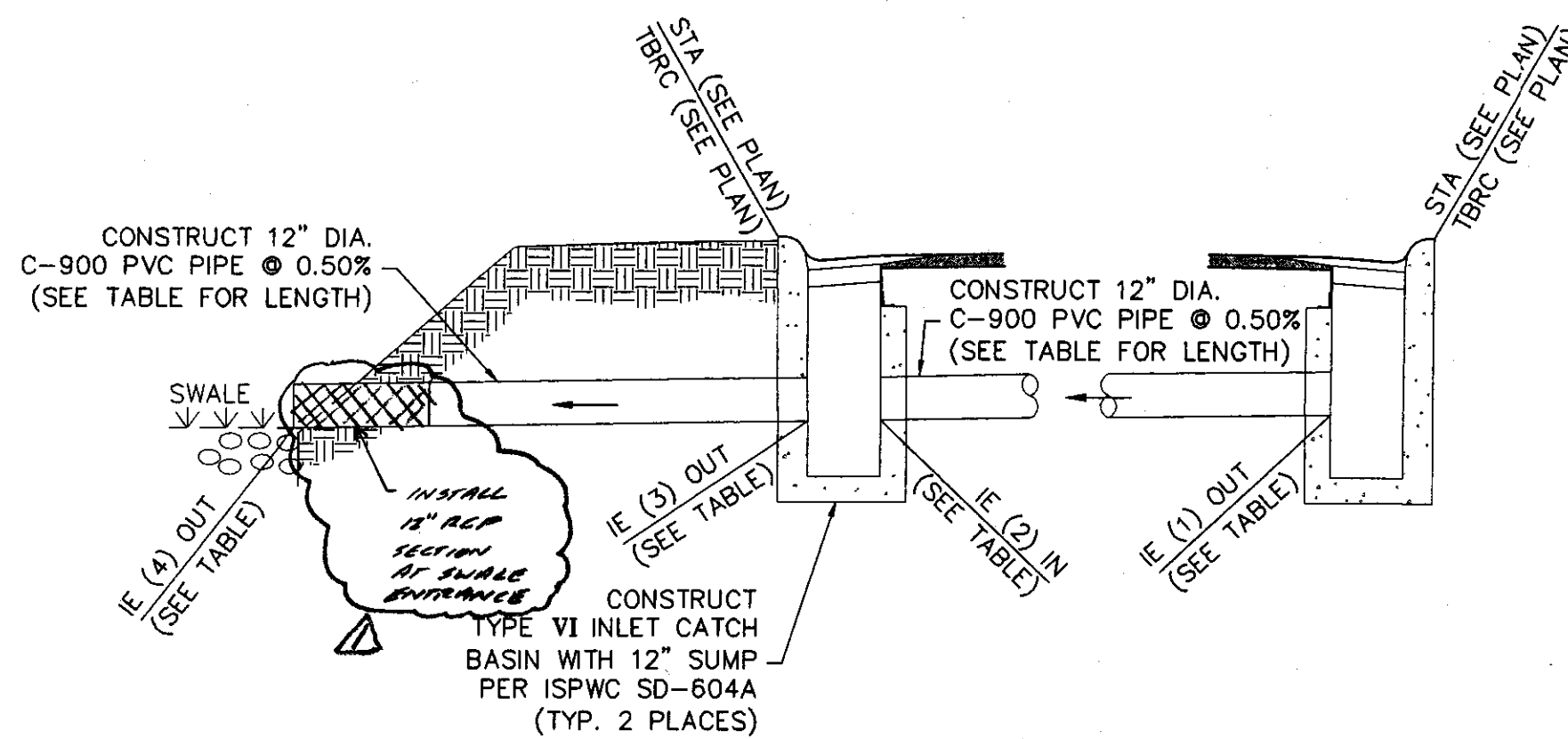
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| TITLE:                                                                                                                                                                                                                             |              | NORTHSIDE ESTATES SUBDIVISION<br>UTILITY PLAN (SHEET 1 OF 2) |                            |
| REV. 6                                                                                                                                                                                                                             | DESIGNED BY: | DRAWN BY:                                                    | CHECKED BY:                |
|                                                                                                                                                                                                                                    | LBW          | DLP                                                          | JAY                        |
| SHEET 5 OF 10                                                                                                                                                                                                                      |              | DRAWING #                                                    | SCALE:                     |
| 1204-00                                                                                                                                                                                                                            |              | AS NOTED                                                     |                            |
| TREASURE VALLEY ENGINEERS, INC.<br>1117 CUDDELL BOULEVARD<br>NAMPA, IDAHO 83651<br>(208) 465-0066<br>FAX (208) 465-4391<br>EMAIL: <a href="mailto:tv@maindesigning.com">tv@maindesigning.com</a>                                   |              |                                                              |                            |
| <br>CIVIL/STRUCTURAL ENGINEERING<br>VISIT OUR WEBSITE: <a href="http://www.TreasureValleyEngineer.com">www.TreasureValleyEngineer.com</a>     |              |                                                              |                            |
|                                                                                                                                               |              |                                                              |                            |
| OWNER/DEVELOPER:<br><br>David A. Hunemiller<br>2715 IRONWOOD<br>NAMPA, IDAHO 83687<br>(208) 941-1280                                                                                                                               |              |                                                              |                            |
| SURVEYOR:<br><br>Anderson-Irard & Associates, Inc.<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 365-0058 |              |                                                              |                            |
| REVISIONS                                                                                                                                                                                                                          |              |                                                              |                            |
| No.                                                                                                                                                                                                                                | BY           | DATE                                                         | DESCRIPTION                |
| 0                                                                                                                                                                                                                                  | DA           | 04/04/02                                                     | ISSUE FOR CONSTRUCTION     |
| 1                                                                                                                                                                                                                                  | DA           | 01/01/03                                                     | ADD 2400 FT. TO ELEVATIONS |
|                                                                                                                                                                                                                                    |              |                                                              |                            |
|                                                                                                                                                                                                                                    |              |                                                              |                            |
|                                                                                                                                                                                                                                    |              |                                                              |                            |



**TYPICAL STREET SECTION 1**  
SCALE: N.T.S.

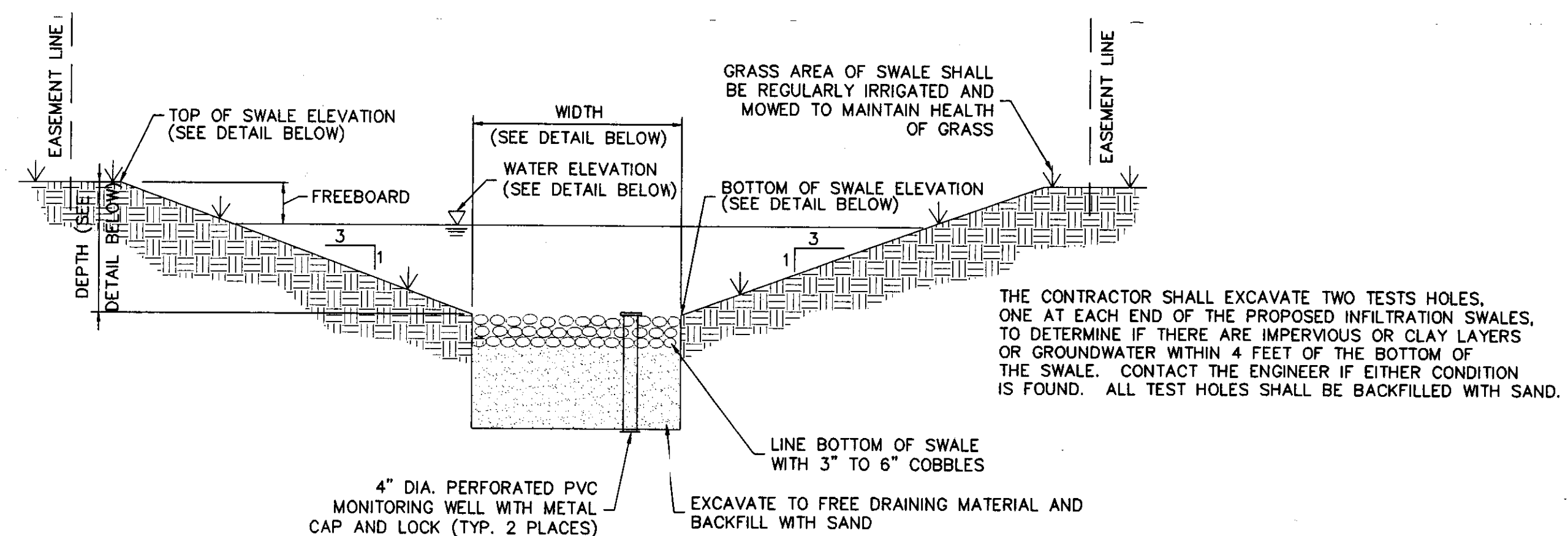


**STREET SECTION AT LANDSCAPE ISLAND 2**  
SCALE: N.T.S.



**STORM DRAIN DETAIL 3**  
SCALE: N.T.S.

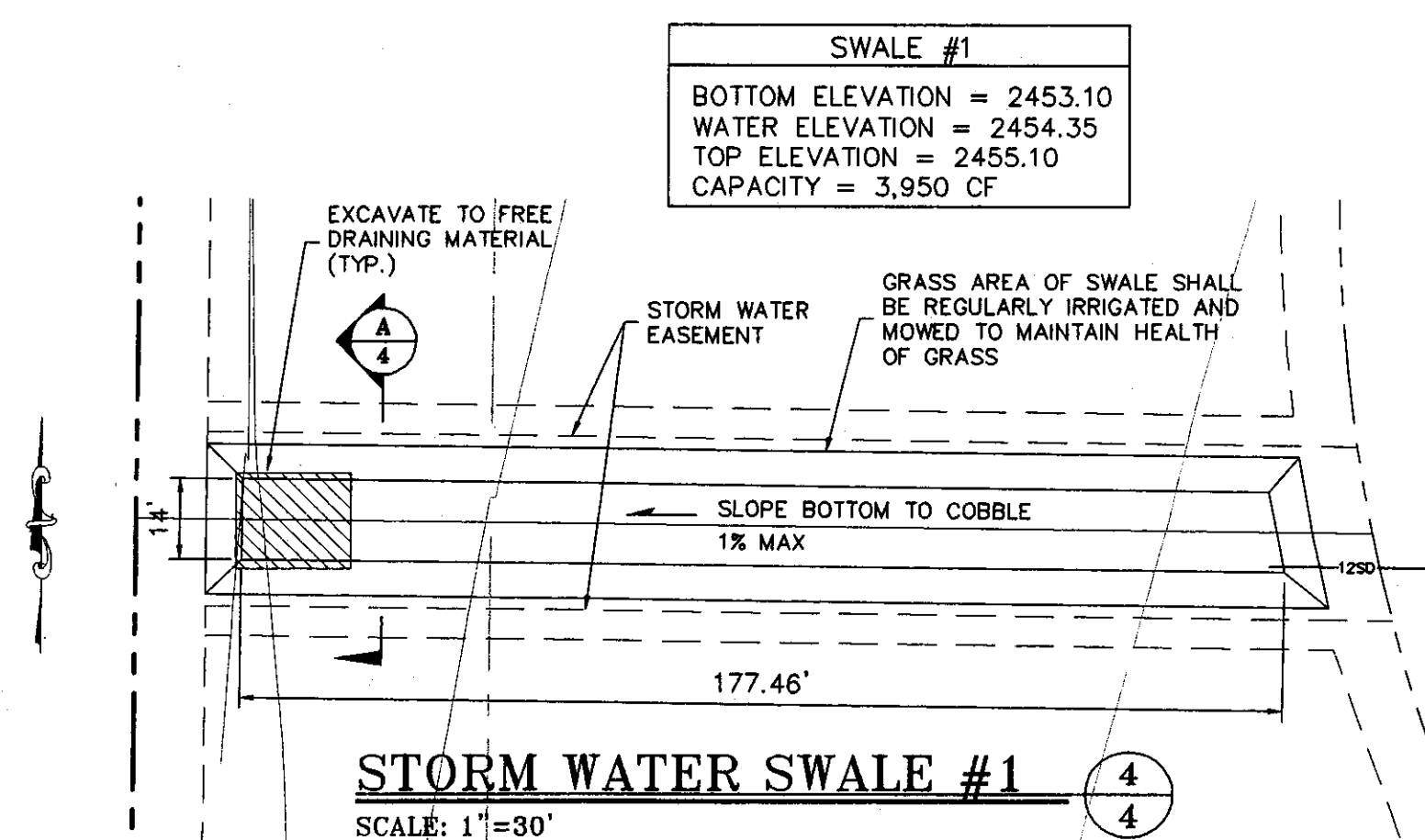
| LOCATION       | IE (1)  | PIPE LENGTH (1) TO (2) | IE (2)  | IE (3)  | PIPE LENGTH (3) TO (4) | IE (4)  |
|----------------|---------|------------------------|---------|---------|------------------------|---------|
| STORM DRAIN #1 | 2453.50 | 30.0 LF±               | 2453.35 | 2453.25 | 30.0 LF±               | 2453.10 |
| STORM DRAIN #2 | 2454.50 | 38.0 LF±               | 2454.30 | 2454.20 | 32.0 LF±               | 2454.04 |
| STORM DRAIN #3 | 2458.65 | 48.0 LF±               | 2458.40 | 2448.30 | 56.0 LF±               | 2448.02 |



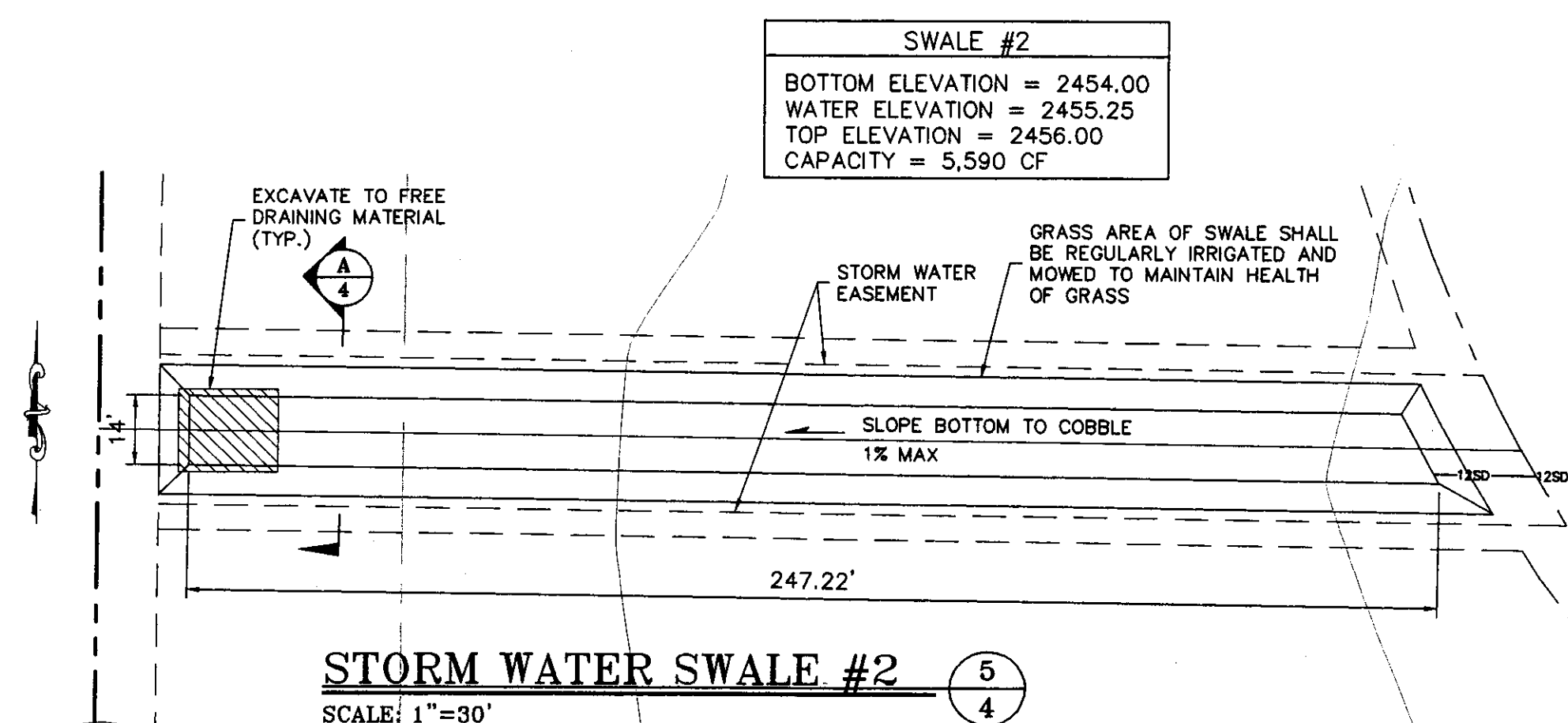
**SWALE SECTION 4**  
SCALE: N.T.S.

**RECORD DOCUMENTS**

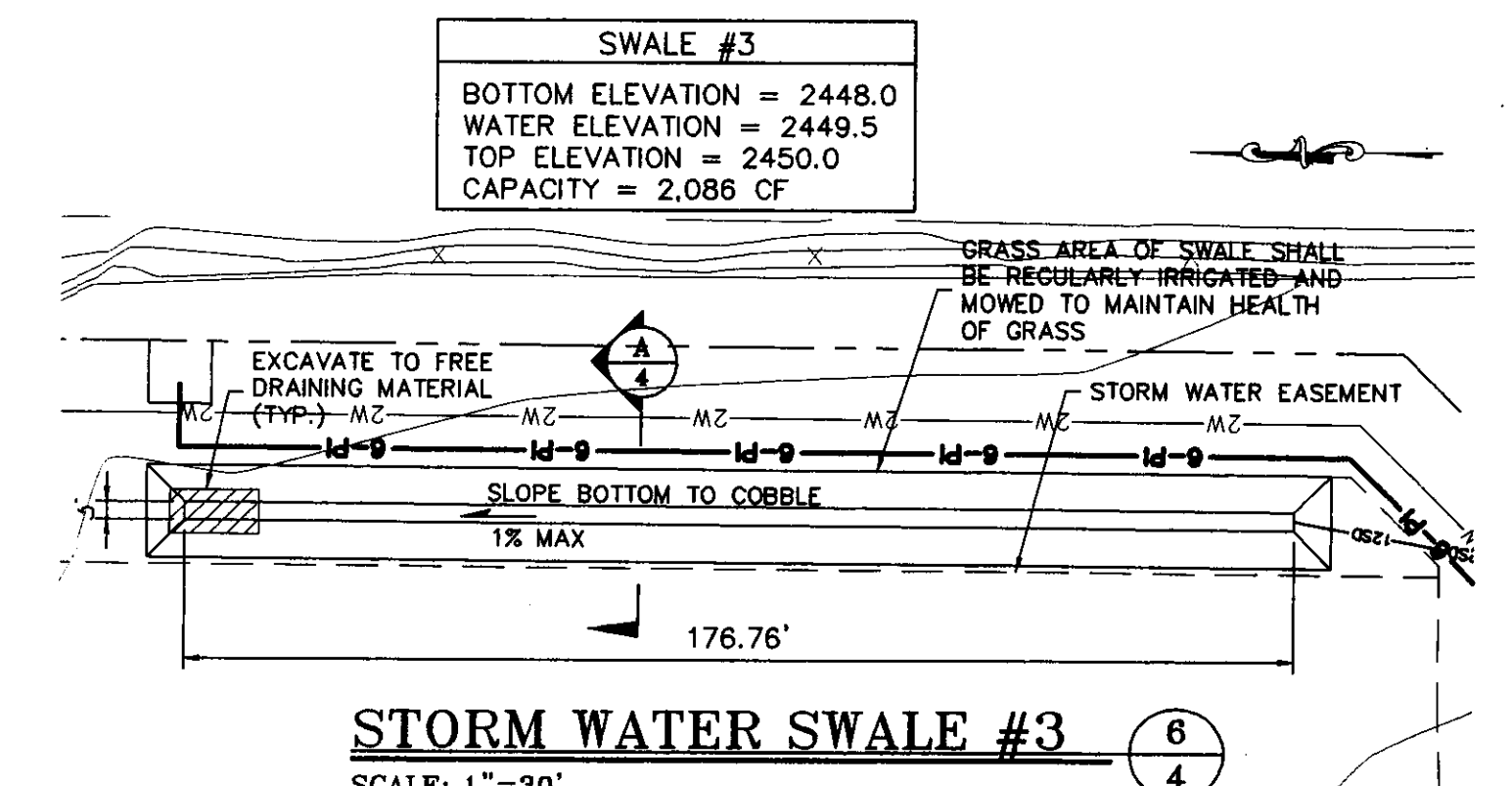
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**STORM WATER SWALE #1 4**  
SCALE: 1"=30'



**STORM WATER SWALE #2 5**  
SCALE: 1"=30'

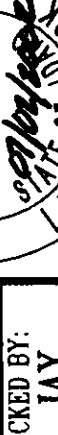


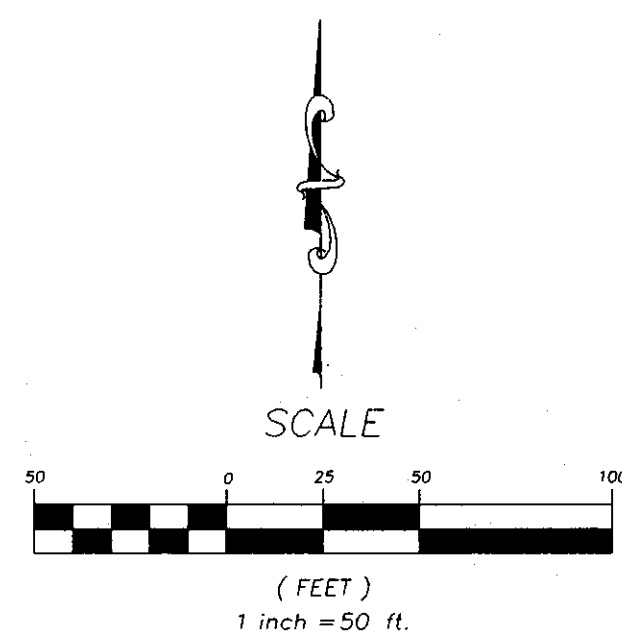
**STORM WATER SWALE #3 6**  
SCALE: 1"=30'

|                                                                                                                                                                                                           |         |         |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|------------------------|
| No.                                                                                                                                                                                                       | BY      | DATE    | DESCRIPTION            |
|                                                                                                                                                                                                           |         |         | ISSUE FOR CONSTRUCTION |
| 0                                                                                                                                                                                                         | 1/10/02 | 1/10/02 | AS NOTED               |
| REVISIONS                                                                                                                                                                                                 |         |         |                        |
| SURVEYOR:<br>Anderson-David & Associates, Inc.<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 388-0006                                                                 |         |         |                        |
| OWNER/DEVELOPER:<br>David A. Hunemiller<br>2715 IRONWOOD<br>Nampa, Idaho 83687<br>(208) 941-1280                                                                                                          |         |         |                        |
| TREASURE VALLEY ENGINEERS, INC.<br>1117 CLYDELL BOULEVARD<br>Nampa, Idaho 83651<br>(208) 463-0306<br>FAX (208) 463-4391<br>EMAIL: treval@treval.com<br>VISIT OUR WEBSITE: www.TreasureValleyEngineers.com |         |         |                        |
| PROFESSIONAL ENGINEER<br>10077<br>STATE OF IDAHO<br>JAY                                                                                                                                                   |         |         |                        |
| TITLE: NORTHSIDE ESTATES SUBDIVISION STREET AND DRAINAGE DETAILS<br>DESIGNED BY: LHW<br>DRAWN BY: DLP<br>CHECKED BY: JAY<br>SCALE: AS NOTED<br>SHEET 4 OF 10<br>1284-00                                   |         |         |                        |

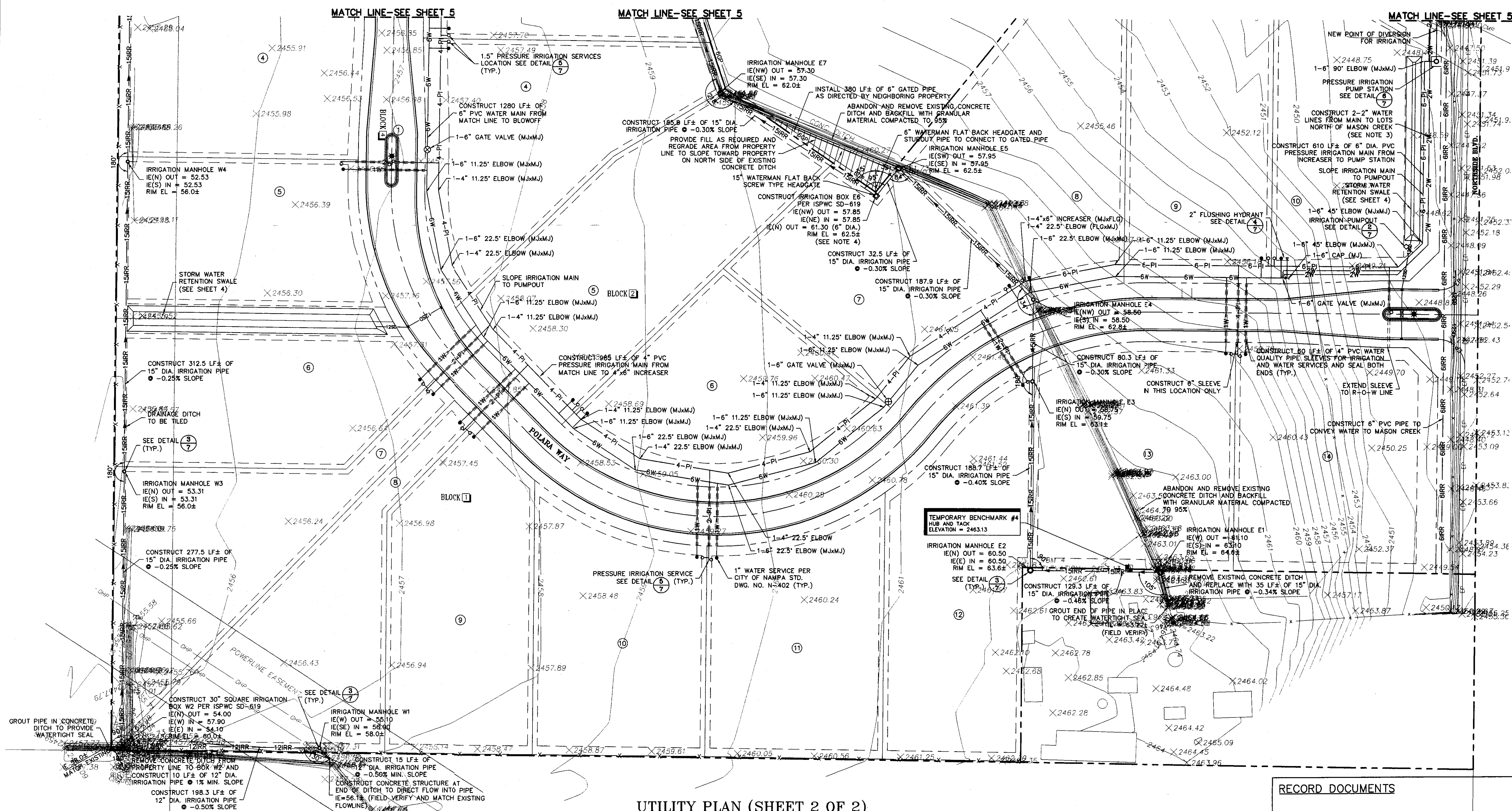


- NOTES:**
1. SEE SHEET SHEETS 5 AND 6 FOR UTILITY PLAN.
  2. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ACCESS HOLES IN THE CISTERN AND COVER WITH THE IRRIGATION CONTRACTOR.
  3. THE IRRIGATION CISTERN AND SCREEN ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND CONSTRUCTION OF THE CISTERN AND SCREEN WITH THE DESIGN-OWNED IRRIGATION CONTRACTOR TO ENSURE SYSTEM WILL OPERATE AS INTENDED.
  4. PUMP AND CONTROLS SHALL BE CONFIGURED TO SUPPLY 300 GPM AT 60 PSI AND 50 FT HEAD.

|                                                         |  |                     |                  |                                                                                       |  |                                                                                       |  |                                                                                                                                                                                                                          |             |                                                                                                      |                                       |                                                                                                                                                   |  |           |  |
|---------------------------------------------------------|--|---------------------|------------------|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|
| TITLE: NORTHSIDE ESTATES SUBDIVISION<br>UTILITY DETAILS |  |                     |                  |  |  |  |  | TREASURE VALLEY ENGINEERS, INC.<br>1117 CALDWELL BOULEVARD<br>NAMPA, IDAHO 83651<br>FAX (208) 463-4891<br>EMAIL: tve@maindiping.com<br>CIVIL/STRUCTURAL ENGINEERING<br>VISIT OUR WEBSITE: www.TreasureValleyEngineer.com |             | OWNER/DEVELOPER:<br><br>David A. Hunemiller<br>2715 IRONWOOD<br>NAMPA, IDAHO 83687<br>(208) 941-1280 |                                       | SURVEYOR:<br><br><u>Anderson-David &amp; Associates, Inc.</u>  |  | REVISIONS |  |
| REV. 0                                                  |  | DESIGNED BY:<br>LBW | DRAWN BY:<br>DIP | CHECKED BY:<br>JAY                                                                    |  |                                                                                       |  |                                                                                                                                                                                                                          | No. BY<br>0 | DATE<br>10/24/02                                                                                     | DESCRIPTION<br>ISSUE FOR CONSTRUCTION |                                                                                                                                                   |  |           |  |



- NOTES:
- SEE SHEET 1 FOR ADDITIONAL NOTES AND LEGEND.
  - ADD 2400 FT. TO ELEVATIONS WHERE REQUIRED TO ACHIEVE TRUE ELEVATIONS.
  - WATER SERVICES TO LOTS 11 AND 12 OF BLOCK 2 WILL BE 2" DIA. TO REDUCE HEADLOSS DUE TO RUN LENGTH. ALL OTHER POTABLE WATER SERVICES WILL BE 1" DIA.
  - ADJUST WIDTH OF IRRIGATION BOX E6 AS REQUIRED TO FACILITATE INSTALLATION OF 3 PIPES AND 2 HEADGATES.



UTILITY PLAN (SHEET 2 OF 2)  
SCALE: 1"=50'

RECORD DOCUMENTS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, TREASURE VALLEY ENGINEERS CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

| No. | BY | DATE     | DESCRIPTION            |          |
|-----|----|----------|------------------------|----------|
|     |    |          | ISSUE FOR CONSTRUCTION | REVISION |
| 0   | LD | 07/11/02 | ISSUE FOR CONSTRUCTION | REVISION |
| 1   | LD | 07/11/02 |                        |          |
| 2   | LD | 07/11/02 |                        |          |
| 3   | LD | 07/11/02 |                        |          |
| 4   | LD | 07/11/02 |                        |          |
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| 98  | LD | 07/11/02 |                        |          |
| 99  | LD | 07/11/02 |                        |          |
| 100 | LD | 07/11/02 |                        |          |

# NOTES:

1. THE WELL CONSTRUCTION AND DISTRIBUTION SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH: THE 2000 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (1994), AND THE DEPARTMENT OF WATER RESOURCES WELL CONSTRUCTION STANDARDS (1989).
2. ALL MAJOR DEVIATIONS MUST BE APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, TWENTY-FOUR HOURS IN ADVANCE PRIOR TO CONSTRUCTION OF WELL.
3. THE ENGINEER WILL WORK DIRECTLY WITH THE WELL DRILLER ON THE EQUIPMENT SELECTION. ALL EQUIPMENT SHALL MEET THE APPROPRIATE AMERICAN WATER WORKS ASSOCIATION (AWWA) AND NATIONAL SANITATION FOUNDATION (NSF) STANDARDS.
4. THE DISTRIBUTION SYSTEM SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 AFTER CONSTRUCTION AND PRIOR TO USE—AS DESCRIBED IN SPECIFICATION SECTION 02671.
5. THE OWNER SHALL MAINTAIN THE FOLLOWING MINIMUM DISTANCES TO SOURCES OF CONTAMINATION:  
SEWER — 50'  
SEPTIC TANK — 100'  
DRAIN FIELDS — 100'  
SEEPAGE PITS — 100'  
LIVESTOCK — 50'  
SURFACE WATER — 50'
6. ALIGNMENT: THE WELL BORE ALIGNMENT MUST BE SATISFACTORY FOR SUCCESSFUL INSTALLATION AND OPERATION OF THE PERMANENT PUMPING EQUIPMENT.
7. SCREEN: ENTRANCE VELOCITY SHALL NOT EXCEED 0.1 FEET PER SECOND AND SHALL BE INSTALLED SO THAT THE PUMPING WATER LEVEL REMAINS ABOVE THE SCREEN UNDER ALL OPERATING CONDITIONS.
8. NEAT CEMENT GROUT: CEMENT MUST CONFORM TO ASTM STANDARDS C150 AND WATER, WITH NOT MORE THAN SIX GALLONS OF WATER PER SACK OF CEMENT. MUST BE USED FOR 1-8" OPENINGS. GROUT SHALL BE INSTALLED UNDER PRESSURE BY MEANS OF A GROUT PUMP FROM THE BOTTOM OF THE ANNULAR OPENING IN ONE CONTINUOUS OPERATION UNTIL THE ANNULAR OPENING IS FILLED. AFTER CEMENT GROUT IS APPLIED, WORK ON THE WELL SHALL BE DISCONTINUED UNTIL THE CEMENT GROUT IS PROPERLY SET. GRANULAR BENTONITE MAY BE USED IN LIEU OF NEAT CEMENT GROUT (SEE SPECIFICATIONS). PLACING OF SURFACE SEAL TO BE WITNESSED BY THE ENGINEER. IDAHO DEPARTMENT OF WATER RESOURCES SHALL BE CONTACTED 24 HOURS PRIOR TO PLACEMENT OF THE SEAL.
9. THE ENGINEER, OR REPRESENTATIVE SHALL BE PRESENT DURING TEST PUMPING.
10. TEST PUMPING DISCHARGE SHALL BE PIPED TO NEARBY IRRIGATION DITCH WITH PERMISSION OF THE IRRIGATION DISTRICT, OTHERWISE PUMP TO HOLDING TANK AND DISPOSE OFF SITE.
11. CONSTRUCTION OF ANY IMPROVEMENTS TO THE DISTRIBUTION SYSTEM SHALL BE PERFORMED ACCORDING TO CURRENT STANDARDS OF THE FOLLOWING:  
A.) AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.  
B.) NATIONAL SANITATION FOUNDATION (NSF) STANDARDS.  
C.) 2000 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION.
12. PIPE, PACKING, AND JOINTING MATERIALS SHALL BE MANUFACTURED, INSTALLED AND TESTED IN CONFORMANCE WITH THE CURRENT STANDARDS OF THE AWWA.
13. PIPE SHALL BE MANUFACTURED OF MATERIALS RESISTANT INTERNALLY OR EXTERNALLY TO CORROSION, AND NOT IMPARTING TASTES, ODORS, COLOR, OR ANY CONTAMINANT IN TO THE SYSTEM.
14. SYSTEM MUST BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS PRIOR TO BEING PLACED INTO SERVICE.
15. ALL EQUIPMENT, PIPING, AND APPURTENANCES MUST BE NEW.

## WELL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE WELL IN ACCORDANCE WITH ALL DRAWINGS, PROVISIONS, GENERAL SPECIFICATIONS AND SPECIFICATION SECTION 02671. "COMMUNITY WELL FOR NORTHSIDE ESTATES SUBDIVISION NAMPA, CANYON COUNTY, IDAHO".

## SYSTEM CRITERIA:

NUMBER OF CONNECTIONS — 25

STORAGE — 440 GALLONS (GROSS)  
DESIGN CAPACITY — 350 GPM  
(100 GPM—DOMESTIC, 250 GPM—FIRE)  
PUBLIC WATER SUPPLY NO. TBD BY DEQ

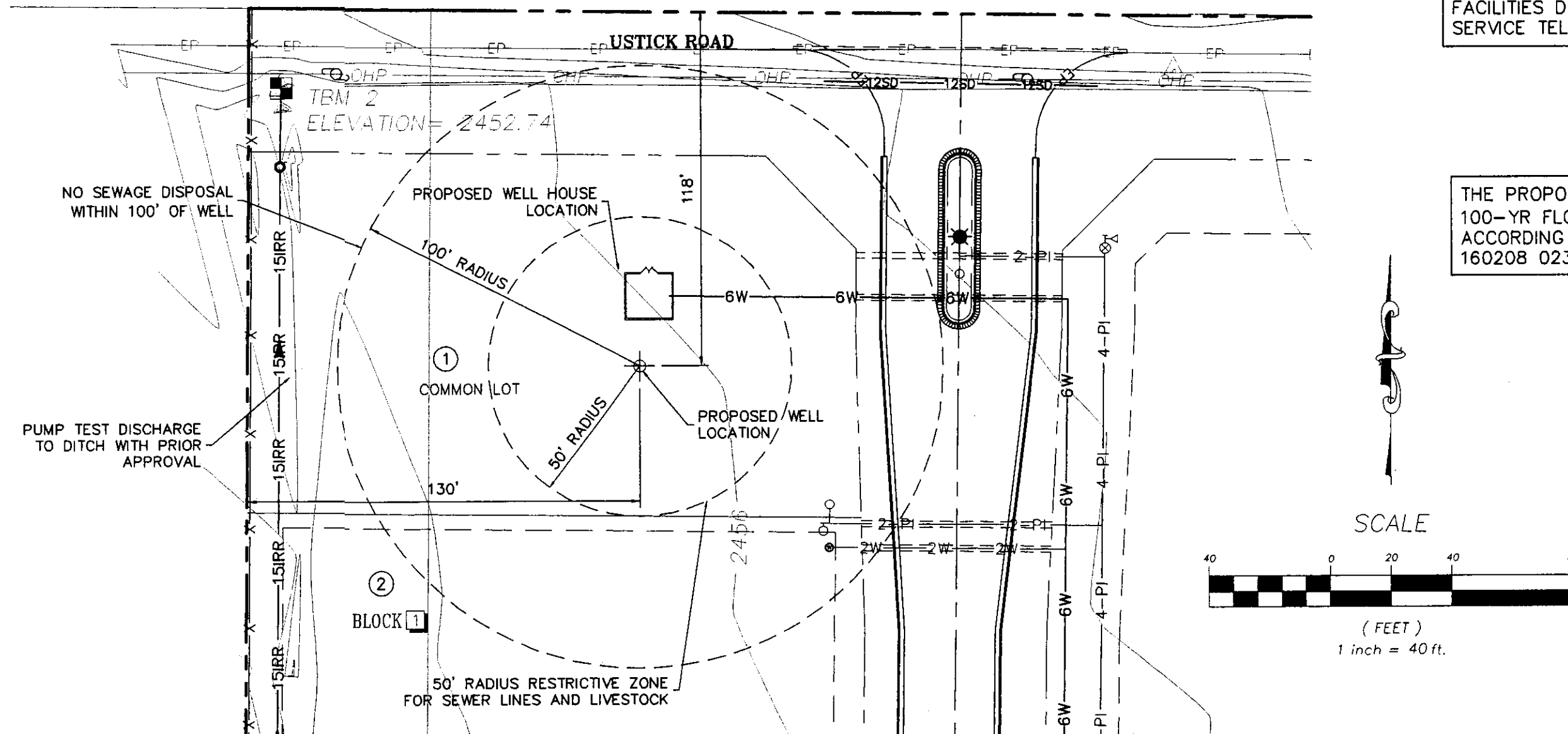
## WELL PUMP SELECTION:

TYPE — GOULDS 6" SUBMERSIBLE (MODEL 275H306)  
HP — 30  
DESIGN CAPACITY — (56 GPM @ 360 FT TDH TO 278 GPM @ 295 FT TDH)  
THREE-PHASE POWER

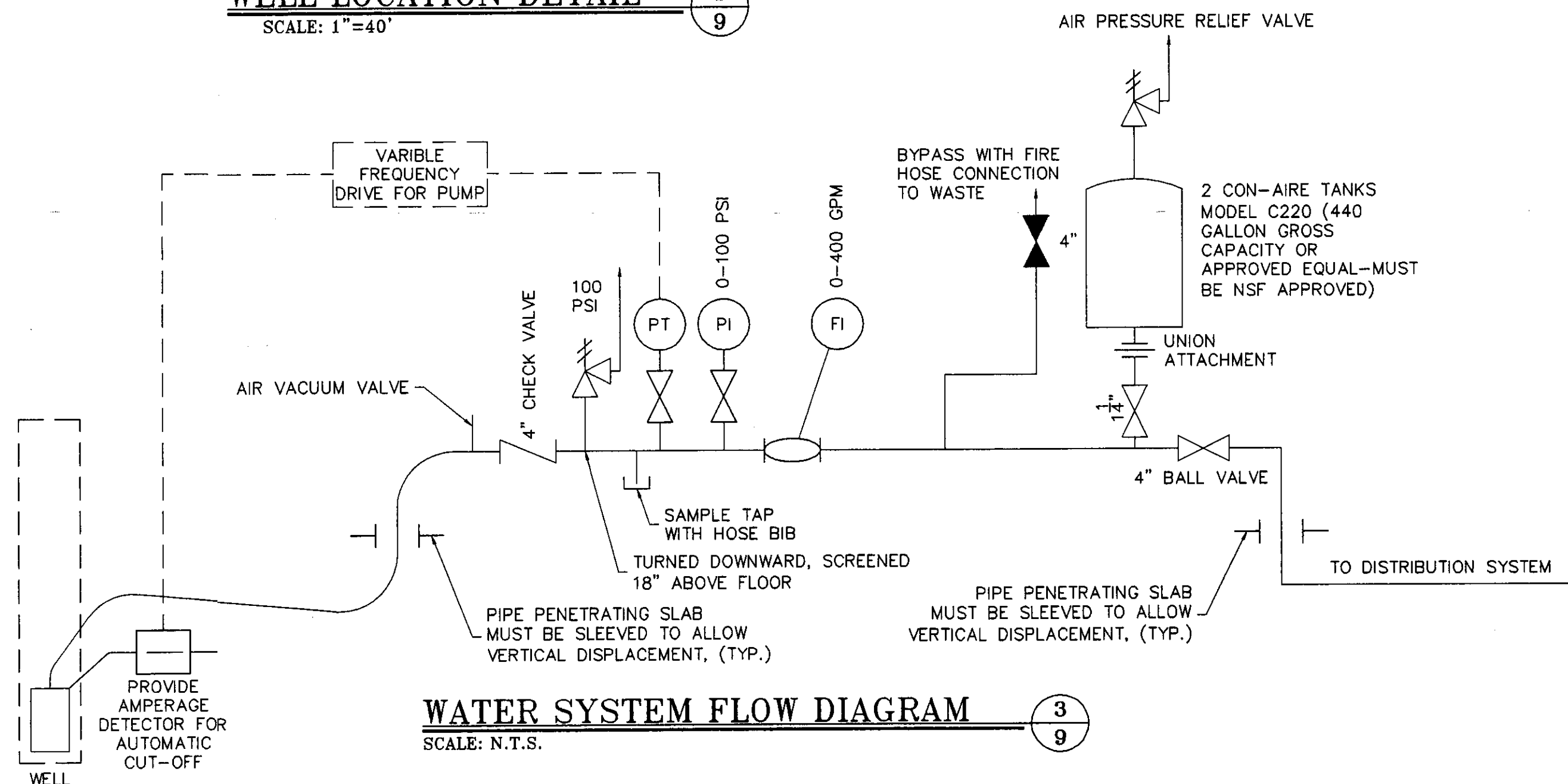
PUMP SHALL BE WATER LUBRICATED.  
THE ELECTRIC CABLE SHALL BE FIRMLY ATTACHED AT 20' INTERVALS.

## BUILDING NOTES:

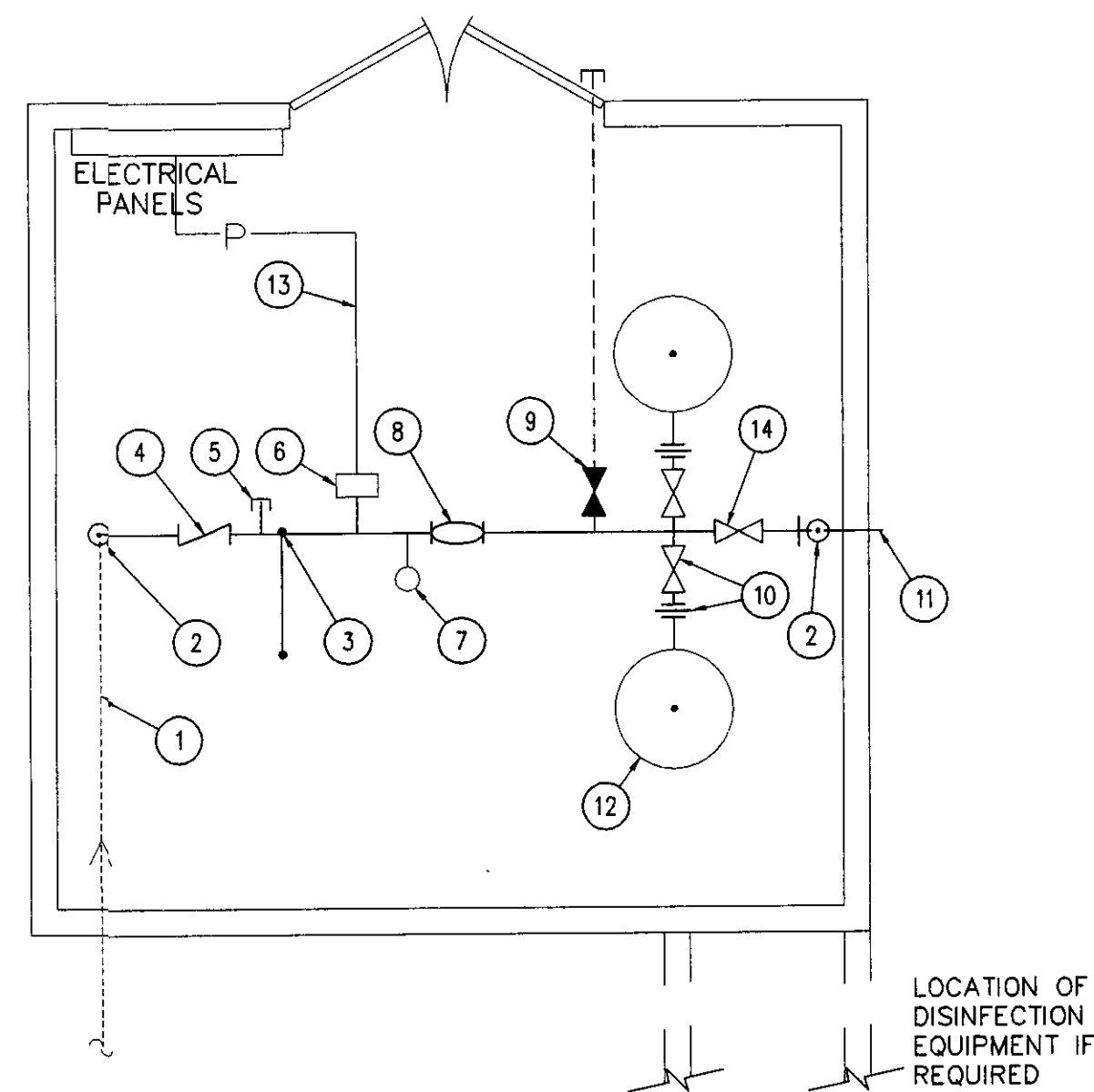
1. GRADE SITE TO DIVERT SURFACE WATER AWAY FROM WELL AND WELL HOUSE.
2. FINISH FLOOR ELEVATION SHALL BE A MINIMUM OF 6 INCHES ABOVE SURROUNDING FINISHED GRADE.
3. FLOOR SHALL BE GRADED TO SLOPE TO FLOOR DRAIN WITH A MINIMUM SLOPE OF 2.5%.
4. BUILDING CONTRACTOR SHALL SUBMIT PROPOSED HEATING, LIGHTING AND VENTILATION PLANS TO ENGINEER FOR APPROVAL. VENTILATION SYSTEM SHALL PROVIDE AT LEAST 6 AIR EXCHANGES PER HOUR IN ORDER TO MANAGE METHANE THAT MAY BE RELEASED FROM WELL. THE BUILDING SHALL BE HEATED TO PROVIDE A MINIMUM TEMPERATURE OF 40°F.



**WELL LOCATION DETAIL**  
SCALE: 1"=40'



**WATER SYSTEM FLOW DIAGRAM**  
SCALE: N.T.S.



**WELL HOUSE LAYOUT DETAIL**  
SCALE: N.T.S.

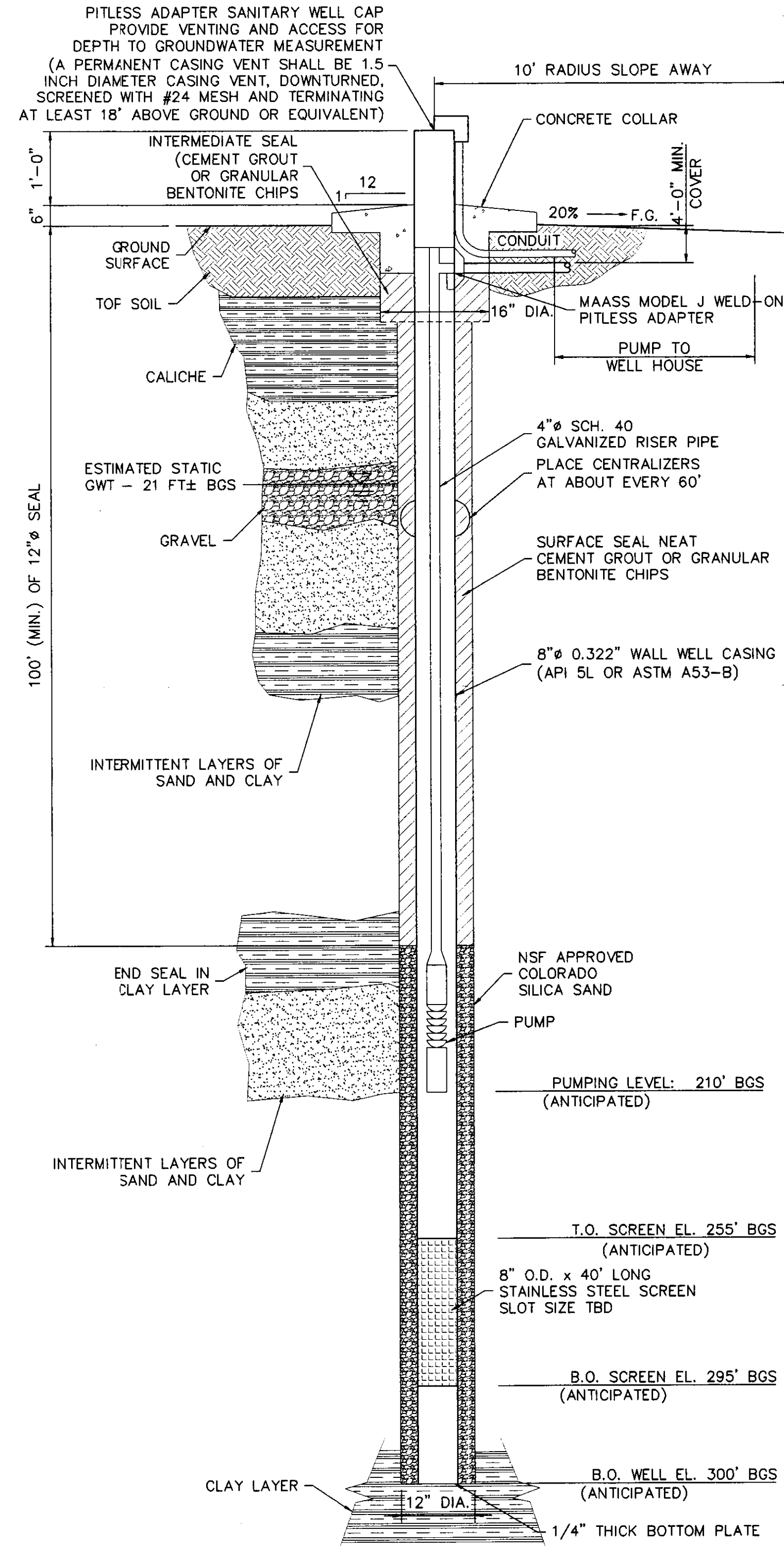
## EQUIPMENT LEGEND:

1. INCOMING WATER LINE FROM WELL
2. PROVIDE SLEEVE IN SLAB FOR PIPE PENETRATION
3. PRESSURE RELIEF VALVE DISCHARGE, TURNED DOWNWARD, SCREENED, 18" ABOVE FLOOR
4. 4" FLANGED CHECK VALVE
5. 3/4" SAMPLE TAP
6. PRESSURE TRANSDUCER FOR VARIABLE FREQUENCY DRIVE
7. PRESSURE INDICATOR GAGE, 0-100 PSI
8. TOTALIZING FLOW INDICATING METER, 0-400 GPM
9. 4" DISCHARGE TO WASTE VALVE WITH FIRE HOSE BIB TO OUTSIDE OF BUILDING. THIS WILL ALSO BE CONFIGURED TO ENABLE CONNECTION BY NAMPA FIRE DEPARTMENT
10. 1-1/4" VALVE AND UNION ATTACHMENTS
11. TO POTABLE WATER SYSTEM
12. PRESSURE TANKS (NSF APPROVED)
13. POWER LINE TO ELECTRIC PANEL
14. 4" BALL VALVE

THE FLOW DIAGRAM AND WELL HOUSE LAYOUT DETAILS SHOWN ARE PROVIDED AS GUIDANCE FOR THE DESIGN-BUILD CONTRACTOR THAT WILL BE CONSTRUCTING THE WATER SYSTEM IN THE WELL HOUSE. THE DESIGN-BUILD CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS REQUIRED FOR SYSTEM OPERATION, MAINTENANCE, MONITORING AND REGULATORY APPROVAL.

PRIOR TO COMMENCEMENT OF ANY EXCAVATIONS, BE ADVISED OF IDAHO CHAPTER 22, TITLE 55, REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION, AND THE ONE-CALL LOCATION SERVICE TELEPHONE NUMBER 342-1585.

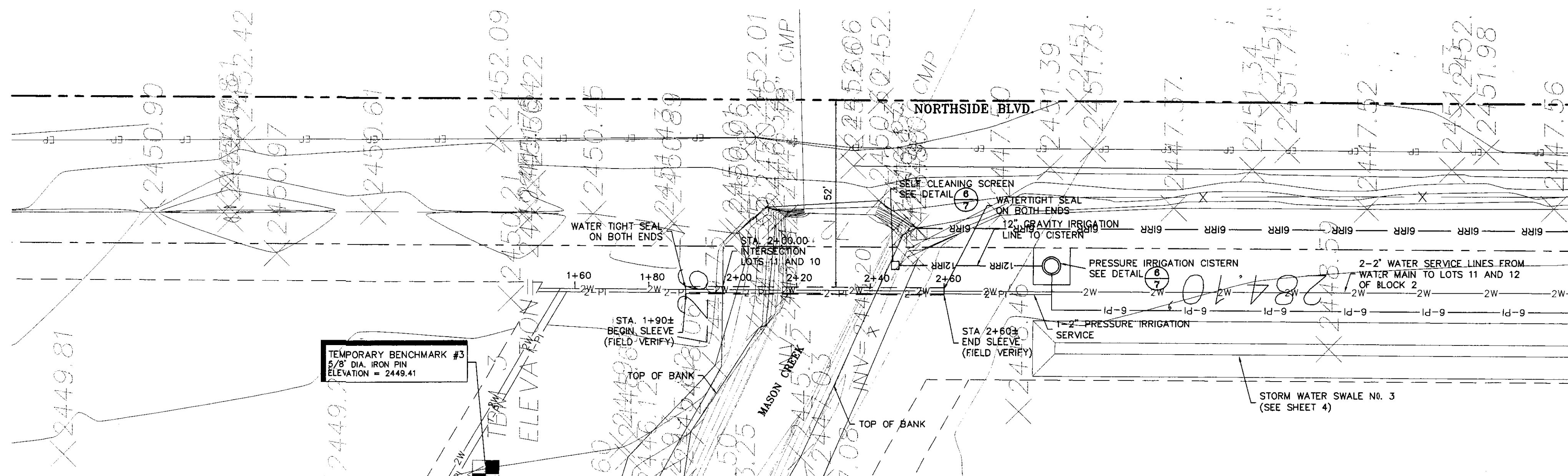
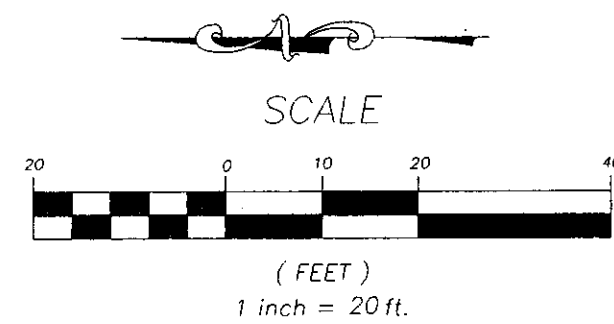
THE PROPOSED WELL IS OUTSIDE THE 100-YR FLOOD PLAIN (ELEV. 2449 FT.) ACCORDING TO FLOOD PLAIN PANEL 160208 0239C.



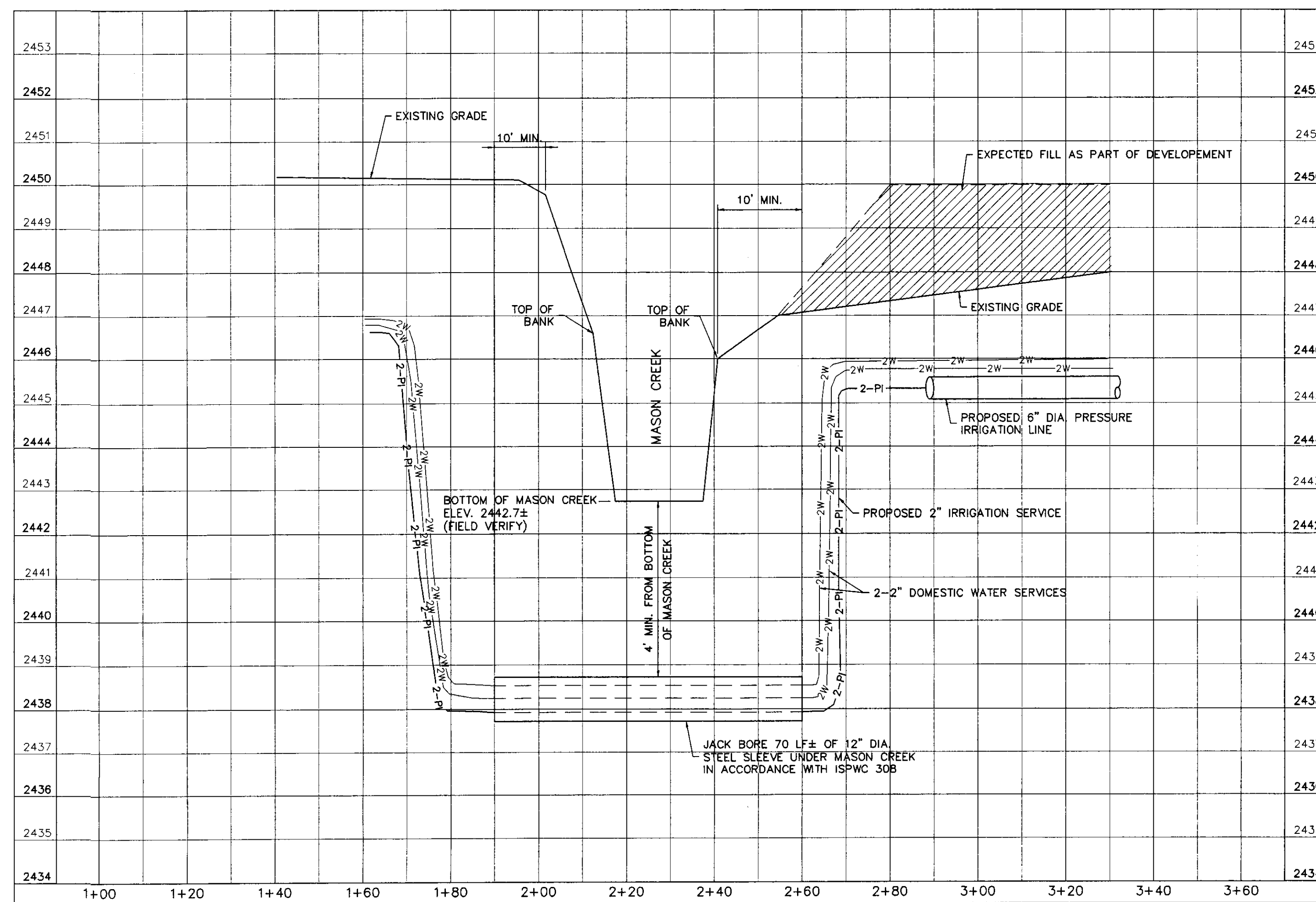
THE LITHOLOGY SHOWN IN THIS DETAIL IS BASED UPON INFORMATION OBTAINED FROM WELL LOGS FOR NEIGHBORING WELLS AND MAY NOT REPRESENT ACTUAL CONDITIONS AT THE SITE. LITHOLOGICAL INFORMATION OBTAINED BY THE DRILLER DURING WELL CONSTRUCTION AND GEOPHYSICAL INFORMATION COLLECTED FROM THE OPEN BOREHOLE WILL BE USED TO REFINE THE DESIGN AND PLACEMENT OF THE WELL SCREEN, CASING AND PUMP.

**WELL CONSTRUCTION DETAIL**  
SCALE: N.T.S.

| No.                                                                                                                                                                                                     | BY               | DATE          | DESCRIPTION     | ISSUE FOR CONSTRUCTION |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|-----------------|------------------------|
|                                                                                                                                                                                                         |                  |               |                 |                        |
| 0                                                                                                                                                                                                       |                  | 08/01/02      |                 |                        |
| REVISIONS                                                                                                                                                                                               |                  |               |                 |                        |
| SURVEYOR: Anderson-Bard & Associates, Inc.<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 363-0058                                                                   |                  |               |                 |                        |
| OWNER/DEVELOPER: David A. Hunemiller<br>2715 IRONWOOD<br>NAMPA, IDAHO 83687<br>(208) 941-1280                                                                                                           |                  |               |                 |                        |
| TREASURE VALLEY ENGINEERS, INC.<br>1117 CALDWELL BOULEVARD<br>NAMPA, IDAHO 83661<br>(208) 468-0065<br>FAX (208) 468-4391<br>EMAIL: tre@trevalleyeng.com<br>VISIT OUR WEBSITE: www.trevalleyengineer.com |                  |               |                 |                        |
| NORTHIDE ESTATES SUBDIVISION<br>WELL PLAN AND SCHEMATIC                                                                                                                                                 |                  |               |                 |                        |
| REV. 0                                                                                                                                                                                                  | DESIGNED BY: LBW | DRAWN BY: DLP | CHECKED BY: JAY | SCALE: AS NOTED        |
| SHEET 9 OF 10                                                                                                                                                                                           |                  |               |                 |                        |



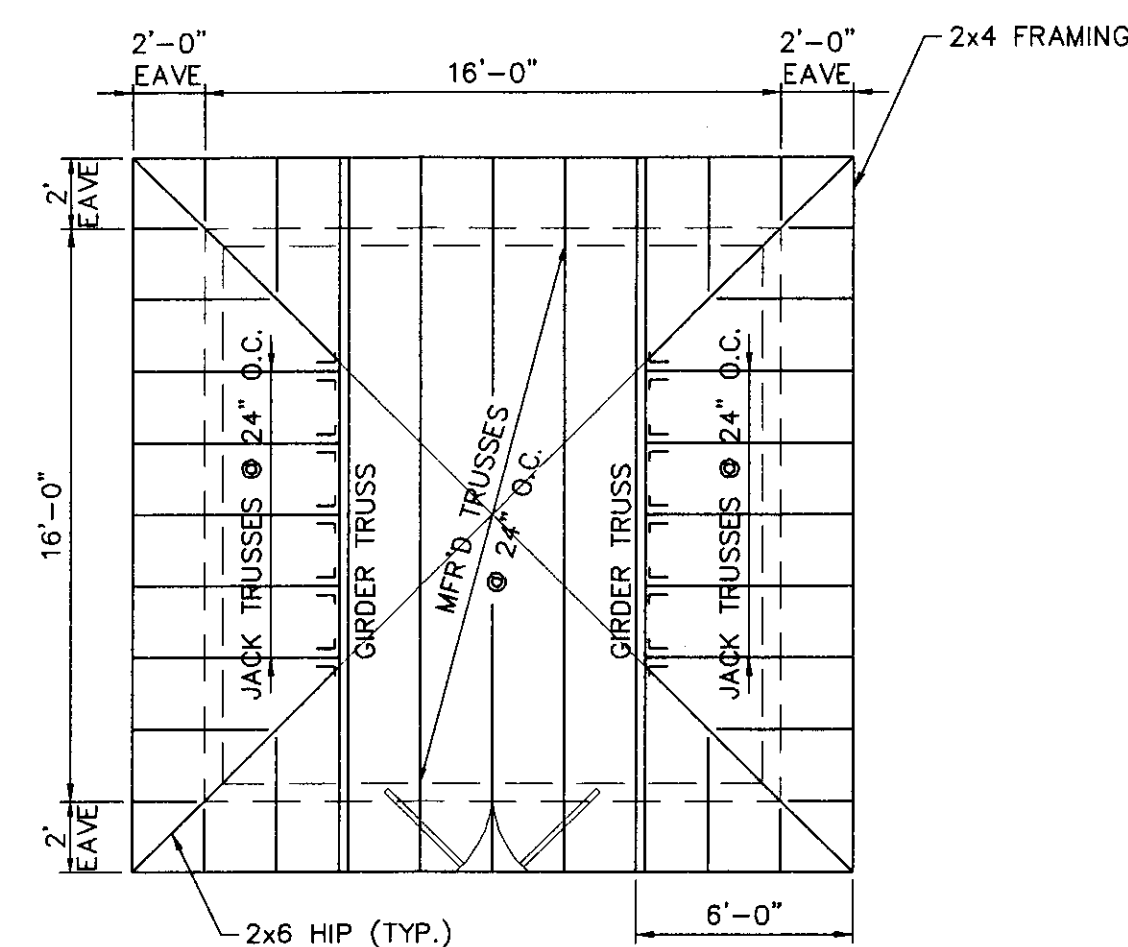
CREEK CROSSING PLAN  
SCALE: 1"=20'



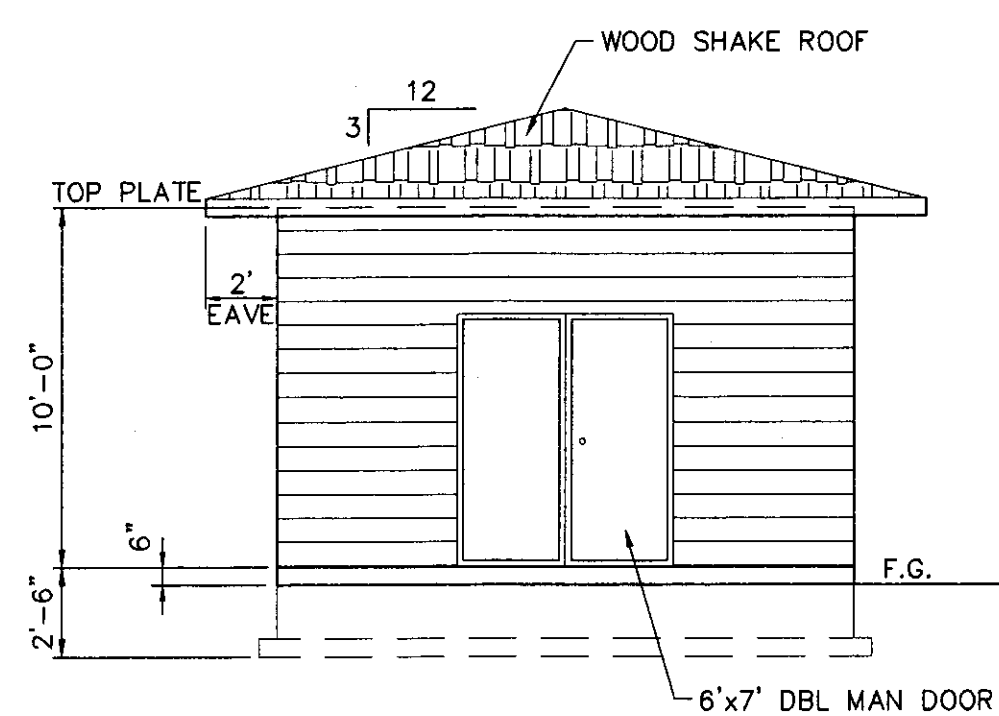
CREEK CROSSING PROFILE  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'

- NOTES:
1. SEE SHEET 1 FOR ADDITIONAL NOTES AND LEGEND.
  2. SEE SHEET 1 FOR ADDITIONAL BENCHMARKS.
  3. COORDINATE ALL CONSTRUCTION ACTIVITIES AFFECTING MASON CREEK WITH LONNIE FREEMAN OF THE PIONEER IRRIGATION DISTRICT (208) 459-3617 AND JOHN CAYWOOD OF US BUREAU OF RECLAMATION (208) 334-1463.

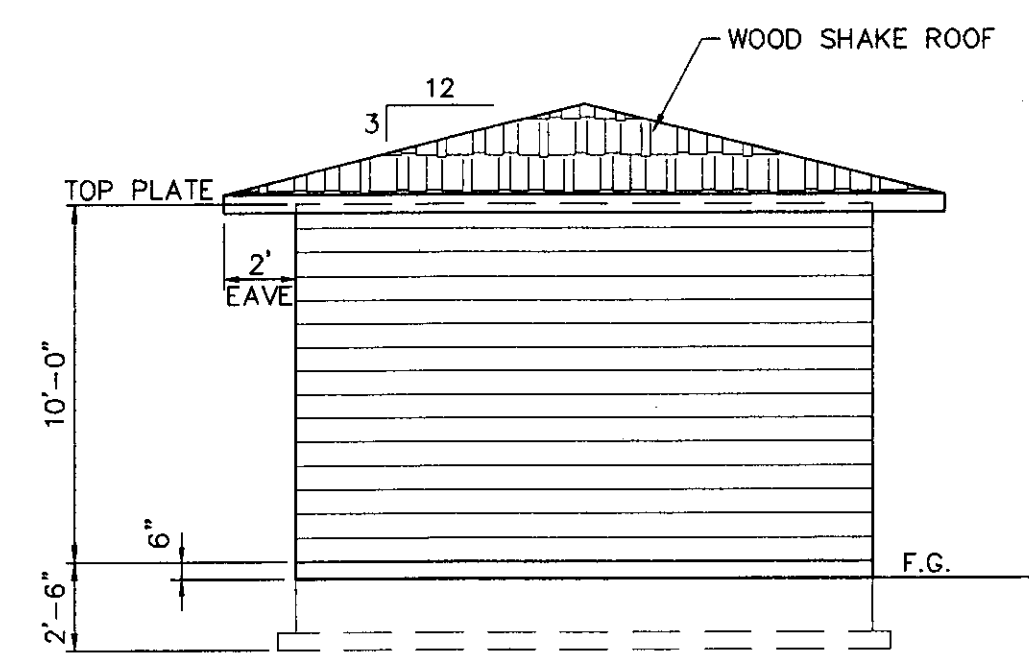
| TITLE:                                                          |                  | OWNER/DEVELOPER:                                                            |                 | SURVEYOR:                                                                                                                                               |  | REVISIONS |  | No. BY DATE  |  | DESCRIPTION            |  |
|-----------------------------------------------------------------|------------------|-----------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|--------------|--|------------------------|--|
| NORTSIDE ESTATES SUBDIVISION<br>UTILITY CROSSING AT MASON CREEK |                  | David A. Hunemiller<br>2715 IRONWOOD<br>NAMP, IDAHO 83687<br>(208) 941-1280 |                 | Anderson-David & Associates, Inc.<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 385-0068                            |  |           |  | 0 04/27/2002 |  | ISSUE FOR CONSTRUCTION |  |
| REV. 0                                                          | DESIGNED BY: LEW | DRAWN BY: DLP                                                               | CHECKED BY: JAY | TREASURE VALLEY ENGINEERS, INC.<br>1117 CALDWELL BOULEVARD<br>NAMP, IDAHO 83661<br>(208) 468-0305<br>FAX (208) 468-4391<br>EMAIL: tv@treasurevalley.com |  |           |  |              |  |                        |  |
| SHEET 8 OF 10                                                   |                  | DRAWING 1284-00                                                             |                 | VISIT OUR WEBSITE: www.TreasureValleyEngineer.com                                                                                                       |  |           |  |              |  |                        |  |



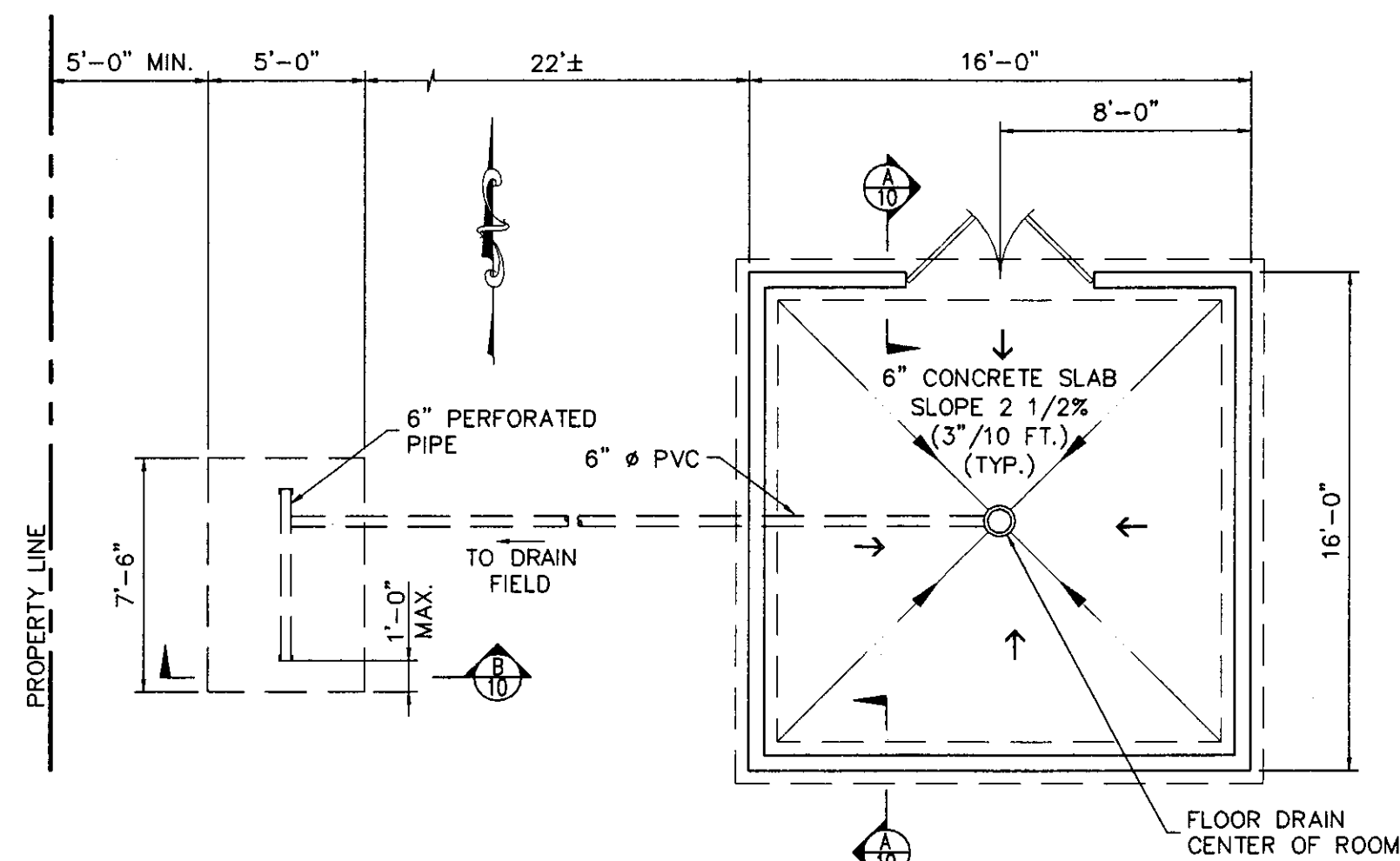
**ROOF FRAMING PLAN**  
SCALE: 3/16" = 1'-0"



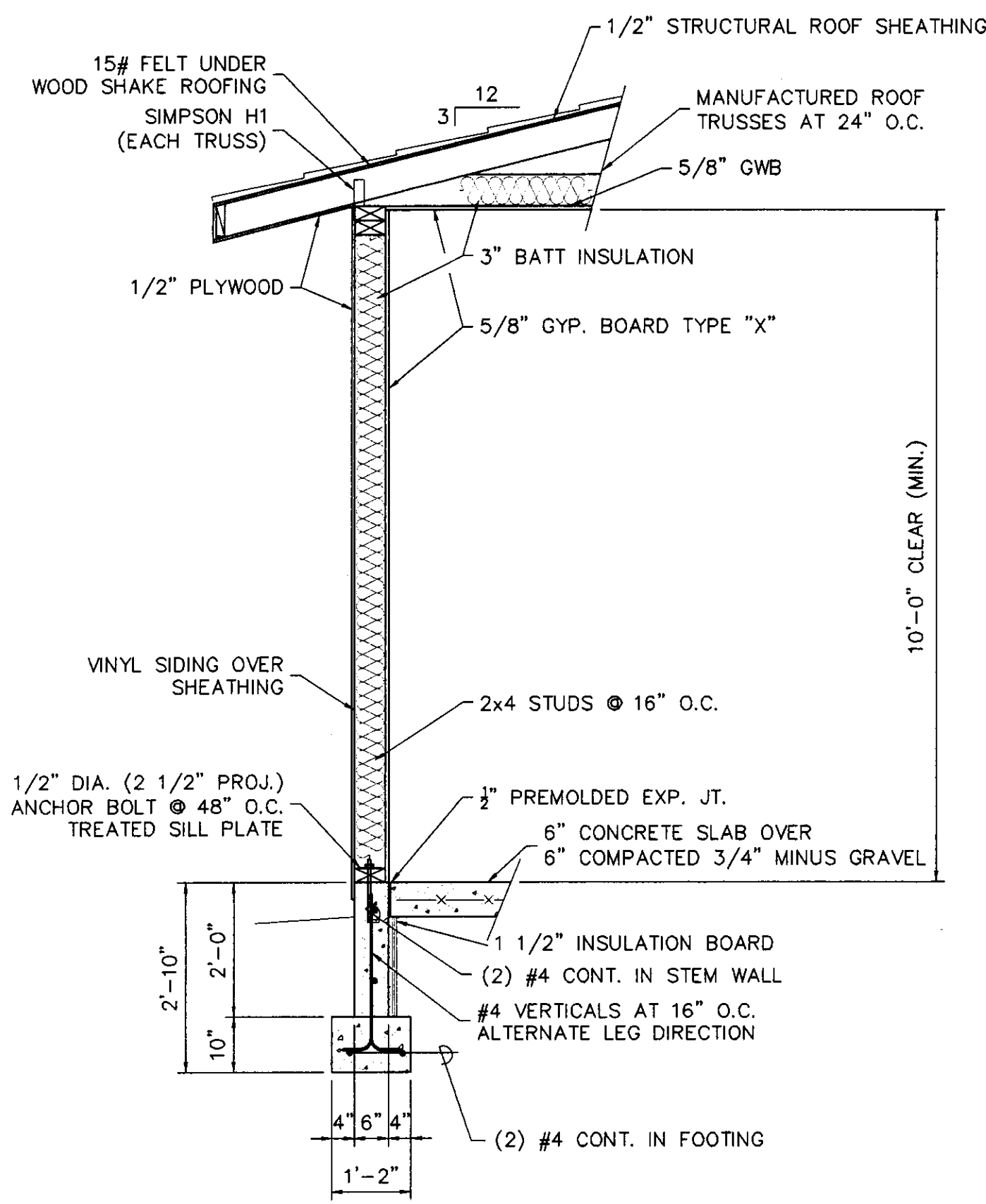
**TYPICAL ELEVATION**  
(MAN DOOR AT NORTH ELEVATION ONLY)  
SCALE: 3/16" = 1'-0"



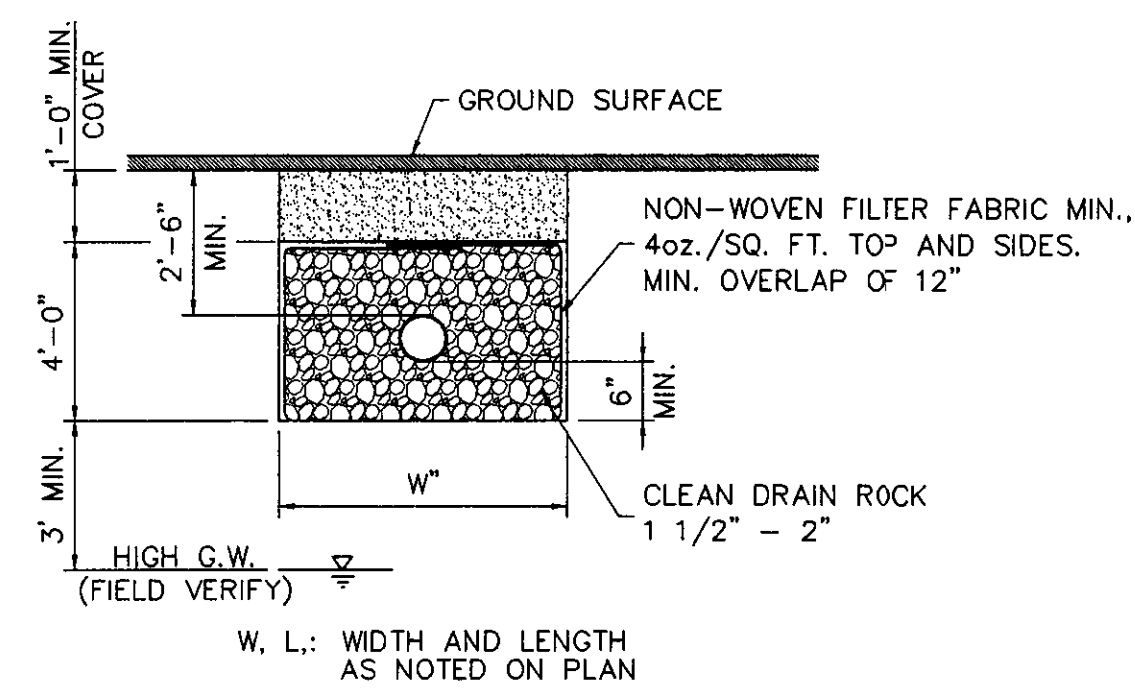
**TYPICAL ELEVATION**  
SCALE: 3/16" = 1'-0"



**FLOOR PLAN/FOUNDATION PLAN**  
SCALE: 3/16" = 1'-0"



**SECTION A**  
SCALE: 1/2" = 1'-0"



**SECTION B**  
SCALE: N.T.S.

**STRUCTURAL GENERAL NOTES**

**CODES AND SPECIFICATIONS:**

- A. UNIFORM BUILDING CODE - 1997 EDITION
- B. ACI 318-89 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- C. CRSI MANUAL OF STANDARD PRACTICE - LATEST EDITION
- D. AMERICAN SOCIETY OF FOR TESTING AND MATERIALS (ASTM)
- E. SAFETY - "OCCUPATIONAL SAFETY AND HEALTH STANDARDS", OSHA, U.S. DEPARTMENT OF LABOR.

**DESIGN CRITERIA:**

DESIGN CRITERIA BASED ON THE 1997 EDITION OF THE UNIFORM BUILDING CODE (UBC):

- A. SNOW LOAD:  
BASIC ROOF LOAD: 25 PSF  
DRIFT: 50 PSF SNOW LOAD @ 2' OVERHANG
- B. WIND: 70 MPH, EXPOSURE C.
- C. SEISMIC: ZONE 2B

**FOUNDATIONS:**

- A. SOILS:  
SHALLOW FOUNDATIONS:  
- ALLOWABLE BEARING PRESSURE USED: 1500 PSF
- B. NO SOIL INVESTIGATION INFORMATION AVAILABLE.
- C. STRUCTURAL BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY.

**MATERIALS AND INSTALLATION:**

**CONCRETE:**

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW:

- A. ALL FOUNDATION CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH  $f'_c = 2,500$  PSI IN 28 DAYS.
- B. ALL CONCRETE FOR SLABS, APRONS, AND RAMPS SHALL BE NORMAL WEIGHT CONCRETE WITH  $f'_c = 4,000$  PSI IN 28 DAYS. (4,000 FOR WORKABILITY, NOT STRENGTH, NO SPECIAL INSPECTION)
- C. DEFORMED REINFORCEMENT SHALL BE ASTM A615, GRADE 60,  $F_y = 60,000$  PSI.
- D. SMOOTH WELDED WIRE FABRIC SHALL BE ASTM A185,  $F_y = 65,000$  PSI.
- E. MINIMUM REBAR LAP SHALL BE 40 BAR DIAMETERS.
- F. MINIMUM WWF LAP = 12 INCHES
- G. MINIMUM REBAR COVER SHALL BE:  
CAST AGAINST EARTH: 3 INCHES  
FORMED, BUT, EXPOSED TO EARTH OR WEATHER: 2 INCHES  
NOT EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES
- H. SLAB REINFORCEMENT SHALL BE PLACED AT THE CENTER OF SLAB.
- I. FINAL SLAB SURFACE SHALL RECEIVE A MACHINED STEEL TROWEL SURFACE
- J. ALL EPOXY GROUTING MATERIAL SHALL BE SIKA, SIKADUR 32, HI-MOD, OR APPROVED EQUAL.

**STRUCTURAL AND MISCELLANEOUS STEEL**

- A. ALL STEEL WORK SHALL CONFORM TO AISC SPECIFICATIONS.
- B. PLATES AND SHAPES SHALL CONFORM TO ASTM A36
- C. USE E70XX ELECTRODES FOR ALL WELDS.
- D. ANCHOR BOLTS AND STEEL TO CONCRETE CONNECTIONS: ASTM A307.
- E. ALL ANCHOR BOLTS SHALL BE ASTM A307 WITH CUT THREADS, WASHERS AND HEAVY HEX NUTS. THREAD LENGTH SHALL BE 1/2 INCH LONGER THAN PROJECTION LENGTH.

**WOOD CONSTRUCTION**

- A. PRE-ENGINEERED STEEL PLATED WOOD ROOF TRUSSES SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE PROCEDURES AS SET FORTH BY THE TRUSS PLATE INSTITUTE. THE CONTRACTOR SHALL SUBMIT (3) SETS OF SHOP DRAWINGS AND CALCULATIONS, BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF IDAHO, TO THE ENGINEER-OF-RECORD FOR APPROVAL.
- B. CARPENTRY:
  - 1. WOOD FRAMING MEMBERS SHALL HAVE THE FOLLOWING GRADES UNLESS OTHERWISE NOTED:  
POSTS, BEAMS, HEADERS, JOISTS AND RAFTERS SHALL BE DOUG FIR-LARCH, NO. 2 OR BETTER. PLATES, BLOCKING, AND BRIDGING SHALL BE DOUG FIR-LARCH, NO. 3 OR BETTER. STUD FRAMING SHALL BE STUD GRADE.
  - 2. ALL WOOD CONNECTORS SHALL BE SIMPSON STRONG-TIE OR EQUAL.
  - 3. NAILING SHALL BE IN ACCORDANCE WITH TABLE 23-II-B-1 OF THE 1997 UBC UNLESS OTHERWISE NOTED ON THE PLANS.
  - 4. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR REDWOOD.

|                                                                            |                                                                |                                             |          |                                                                                                                                           |                                                                                                 |                                                                                                                                                                                                                   |                                                                                |                                       |                  |             |  |
|----------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------|------------------|-------------|--|
| TITLE:<br>NORTHSIDE ESTATES SUBDIVISION<br>WELL HOUSE CONSTRUCTION DETAILS | REV. 0<br>DESIGNED BY: ALS<br>DRAWN BY: DLP<br>CHECKED BY: ALS | SCALE:<br>DRAWING 1204-00<br>SHEET 10 OF 10 | AS NOTED | SURVEYOR:<br>Anderson-David & Associates, Inc.<br>Land Surveying Services<br>1401 Shoreline Drive<br>Boise, Idaho 83702<br>(208) 383-0068 | OWNER/DEVELOPER:<br>David A. Hunemiller<br>2715 IRONWOOD<br>NAMP, IDAHO 83687<br>(208) 941-1280 | TREASURE VALLEY ENGINEERS, INC.<br>1117 CLIVEDALE BOULEVARD<br>NAMP, IDAHO 83651<br>(208) 455-6366<br>FAX (208) 455-4391<br>EMAIL: tre@treasurevalleyeng.com<br>VISIT OUR WEBSITE: www.TreasureValleyEngineer.com | PROFESSIONAL ENGINEER<br>REGISTERED<br>10077<br>STATE OF IDAHO<br>LANCE WALKER | DESCRIPTION<br>ISSUE FOR CONSTRUCTION | DATE<br>10/10/02 | No. BY<br>0 |  |
|                                                                            |                                                                |                                             |          | REVISIONS                                                                                                                                 |                                                                                                 |                                                                                                                                                                                                                   |                                                                                |                                       |                  |             |  |
|                                                                            |                                                                |                                             |          |                                                                                                                                           |                                                                                                 |                                                                                                                                                                                                                   |                                                                                |                                       |                  |             |  |

See Original  
Maps Submitted  
With Proof Of B/U  
On Mar. 11, 2008,  
Stored In Map  
Tube  
Located on vaults  
Far Wall.