




## SHEET NOTES

1. SEE SHEET C-1.1 FOR GENERAL, ACID, UTILITY, AND STORM DRAIN NOTES.
2. SEE SHEET C-4.1 AND C-4.2 FOR STORM WATER DETAILS.
3. REFER TO THE GEOTECHNICAL REPORT PREPARED BY MATERIALS TESTING AND INSPECTION, INC., DATED 10/11/2013, "GROUNDWATER" IS EXPECTED TO REMAIN AT A DEPTH OF APPROXIMATELY 5' BELOW EXISTING GROUND. CONTRACTOR TO MOUNT ENGINEER IMPEDED IF GROUND WATER IS ENCOUNTERED.
4. PROVIDE WATER-TIGHT SEAL AT PIPING ENTRANCES/EXITS FOR SAND AND GREASE TRAP AND CATCH BASINS.
5. INSTALL 1000 GAL SAND AND GREASE TRAPS PER ACHD STORMWATER DESIGN GUIDELINES STANDARD DRAWING BMP 01, THIS SHEET, BAFFLE SPACING SHALL BE 20".
6. ALL STORM PIPE WITHIN ROW SHALL BE C-900, OUTSIDE OF ROW STORM PIPE SHALL BE AS N-12 HP PIPE OR APPROVED EQUAL.
7. INSTALL DIVERSION BOX PER DETAIL, SHEET C-4.2.
8. FLOWABLE FILL SHALL BE USED WHEN LESS THAN 5'-FEET OF SEPARATION BETWEEN STRUCTURES.

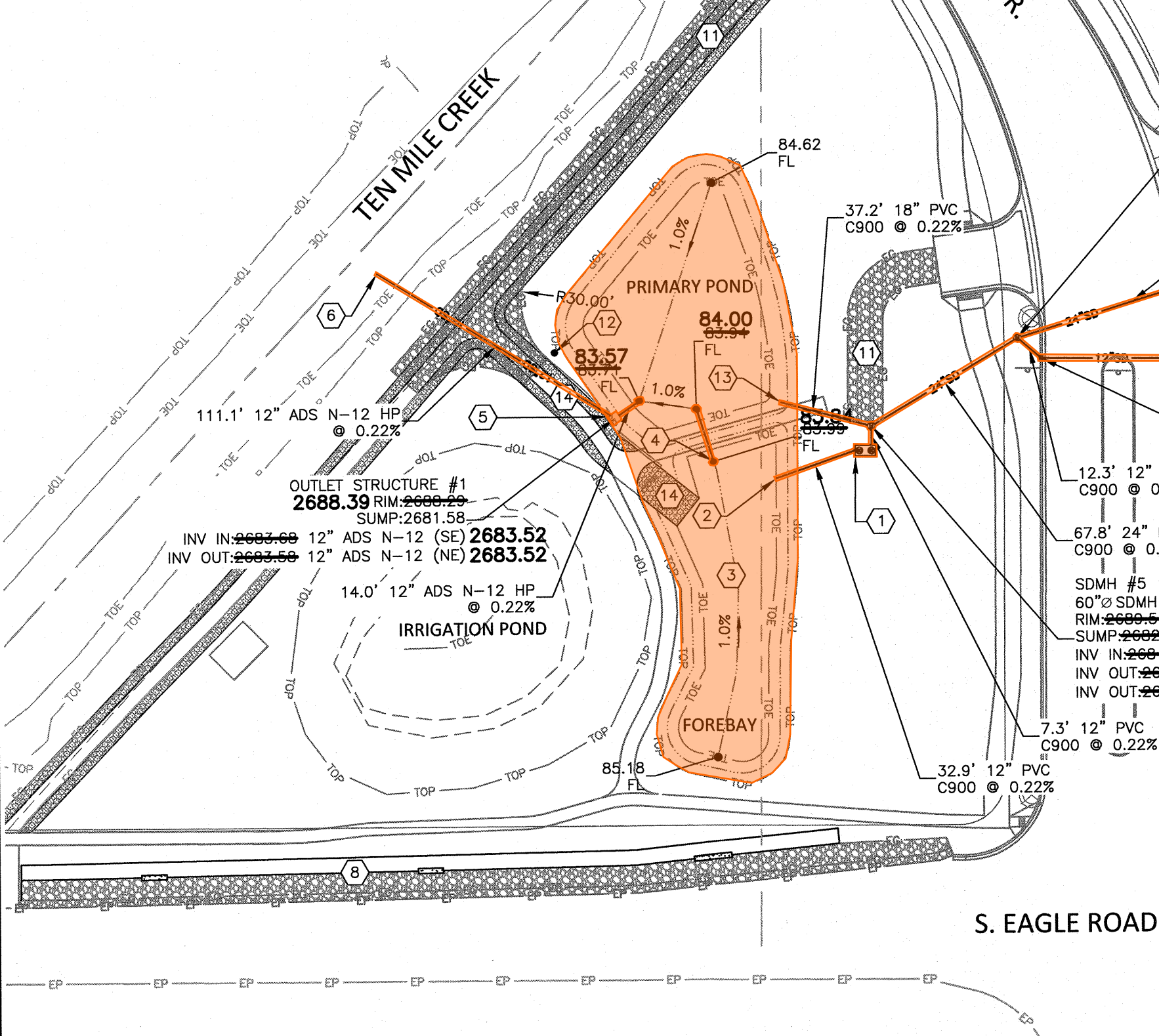
- KEYNOTES** 
1. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #1).  
RIM = ~~2666.63~~ (S) **2686.45**  
INV IN = ~~2666.63~~ (E) (12" ADS N-12) **2683.35**  
INV OUT = ~~2666.63~~ (N) (18" ADS N-12) **2682.32**  
OUTLET BAFFLE = 2683.16  
INLET BAFFLE = 2682.58
  2. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #2).  
RIM = ~~2666.63~~ (W) **2685.62**  
INV IN = 2682.55 (E) (12" ADS N-12)  
INV OUT = ~~2666.63~~ (S) (18" ADS N-12) **2681.44**  
OUTLET BAFFLE = 2682.45  
INLET BAFFLE = 2681.87
  3. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #3).  
RIM = 2685.81 (W) (E)  
INV IN = 2682.55 (E) (12" ADS N-12)  
INV OUT = ~~2666.63~~ (W) (18" ADS N-12) **2681.92**  
OUTLET BAFFLE = 2682.85  
INLET BAFFLE = 2682.27
  4. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #4).  
RIM = ~~2666.63~~ (W) **2685.75**  
INV IN = ~~2666.63~~ (S) (12" ADS N-12) **2682.73**  
INV OUT = ~~2666.63~~ (E) (18" ADS N-12) **2681.80**  
OUTLET BAFFLE = 2682.87  
INLET BAFFLE = 2682.29
  5. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #5).  
RIM = ~~2666.63~~ (S) **2685.86**  
INV IN = ~~2666.63~~ (E) (12" ADS N-12) **2682.96**  
INV OUT = ~~2666.63~~ (S) (18" ADS N-12) **2681.86**  
OUTLET BAFFLE = 2682.87  
INLET BAFFLE = 2682.29
  6. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #6).  
RIM = ~~2666.63~~ (NW) **2686.12**  
INV IN = ~~2666.63~~ (E) (12" ADS N-12) **2682.60**  
INV OUT = ~~2666.63~~ (S) (18" ADS N-12) **2682.23**  
OUTLET BAFFLE = 2682.87  
INLET BAFFLE = 2682.29
  7. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #7).  
RIM = ~~2666.63~~ (N) **2687.37**  
RIM = ~~2666.63~~ (E) **2687.34**  
INV IN = 2684.09 (N) (12" ADS N-12)  
INV OUT = ~~2666.63~~ (E) (18" ADS N-12) **2683.00**  
OUTLET BAFFLE = 2683.99  
INLET BAFFLE = 2683.41
  8. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #8).  
RIM = ~~2666.63~~ (NW) **2689.53**  
INV IN = ~~2666.63~~ (N) (12" ADS N-12) **2686.36**  
INV OUT = ~~2666.63~~ (S) (18" ADS N-12) **2685.38**  
OUTLET BAFFLE = 2686.37  
INLET BAFFLE = 2685.54
  9. INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #10).  
RIM = ~~2666.63~~ (W) **2689.22**  
RIM = ~~2666.63~~ (S) **2687.98**  
INV IN = ~~2666.63~~ (W) (12" ADS N-12) **2685.08**  
INV OUT = ~~2666.63~~ (N) (18" ADS N-12) **2683.81**  
OUTLET BAFFLE = 2684.99  
INLET BAFFLE = 2684.41
  10. SB #1. SEE DETAIL ON SHEET C4.2  
(186'L x 12.5'W x 3.5' D)
  11. SB #2. SEE DETAIL ON SHEET C4.1  
(243'L x 12.5'W x 3.5' D)
  12. SB #3. SEE DETAIL ON SHEET C4.1  
(91'L x 12.5'W x 3.5' D)
  13. SB #4. SEE DETAIL ON SHEET C4.1  
(128'L x 12.5'W x 3.5' D)
  14. SB #5. SEE DETAIL ON SHEET C4.1  
(250'L x 12.5'W x 3.5' D)
  15. SB #6. SEE DETAIL ON SHEET C4.1  
(270'L x 12.5'W x 3.5' D)
  16. SB #7. SEE DETAIL ON SHEET C4.1  
(204'L x 16.5'W x 3.9' D)
  17. SB #8, W/ 31 CHAMBERS. SEE DETAIL ON SHEET C4.2  
(87'L x 24.5'W x 3.5' D)
  18. SB #9. SEE DETAIL ON SHEET C4.1  
(161'L x 18.5'W x 3.0' D)
  19. INSTALL 127 LF BORROW DITCH PER DETAIL SHEET C2.10  
(SW #1). INSTANT ONE (1) - 16'Lx2'W SAND WINDOWS.
  20. INSTALL 753 LF OF BORROW DITCH PER DETAIL SHEET C2.10  
(SW #2). INSTANT EIGHT (8) - 10'Lx2'W SAND WINDOWS.
  21. INSTALL GROUND WATER OBSERVATION WELL PER DETAIL SHEET C4.2. MONITORING WELL SHALL CONFORM TO THE SPECIFICATIONS AND REQUIREMENTS PER ACHD STORMWATER DESIGN GUIDELINES SECTION 8200 DETAIL. DURING CONSTRUCTION, THE WELL SHALL BE MORRIS INDUSTRIES INC., OR APPROVED EQUIVALENT WITH CONCRETE COLLAR SET FLUSH WITH FINISH GRADE. THE PORTION OF THE PIPE LAYING IN DRAINAGE SAND MUST BE WRAPPED IN A DRAINAGE GEOTEXTILE. 1" PER IPSWC SECTION 2080. OBSERVATION WELLS INSIDE SEEPAGE BED MUST EXCEED A MINIMUM OF 1' BELOW THE BOTTOM OF THE SAND BED AND BE PLACED 5' FROM THE PERIMETER OF THE BED. OBSERVATION WELLS OUTSIDE SEEPAGE BED MUST BE PLACED A MINIMUM OF 20' FROM THE PERIMETER OF THE BED.
  22. INSTALL 14' WIDE CONCRETE DRIVEWAY APPROACH PER DETAIL SHEET C2.13. CONCRETE SIDEWALK SHALL BE 6" THICK IN THE AREA ADJUTING THE ACCESS DRIVE. INSTALL GRASS PAVERS (GRASSPAVEZ OR APPROVED EQUAL) FOR MAINTENANCE ACCESS BEYOND CONCRETE APPROACH AND SIDEWALK PER DETAIL, SHEET C4.1.

																			
<div style="text-align: center;"> <b>HILL'S CENTURY FARM SUBDIVISION - PHASE I</b>  <b>MERIDIAN, IDAHO</b>    <b>STORM WATER IMPROVEMENT PLANS</b> </div>																			
<div style="border: 1px solid black; padding: 5px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">REVISONS</th> </tr> <tr> <th style="width: 10%;">NO.</th> <th style="width: 90%;">ITEM</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>DATE 2/25/15</td> </tr> <tr> <td style="text-align: center;">2</td> <td>ACHD AND CITY OF MERIDIAN COMMENTS REMOVED EAGLE RD. AND TACONIC FROM PROJECT</td> </tr> <tr> <td style="text-align: center;">3</td> <td>REVISED SEWER PLANS 4/7/15</td> </tr> <tr> <td style="text-align: center;">4</td> <td>TACONIC DR. AND EAGLE RD. REVISIONS 4/22/15</td> </tr> <tr> <td style="text-align: center;">5</td> <td>ACHD COMMENTS 5/13/15</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> </div>		REVISONS		NO.	ITEM	1	DATE 2/25/15	2	ACHD AND CITY OF MERIDIAN COMMENTS REMOVED EAGLE RD. AND TACONIC FROM PROJECT	3	REVISED SEWER PLANS 4/7/15	4	TACONIC DR. AND EAGLE RD. REVISIONS 4/22/15	5	ACHD COMMENTS 5/13/15				
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<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;">  <div> <b>ENGINEERING</b>  <small>ENGINEERS • SURVEYORS • PLANNERS</small>            9233 WEST STATE STREET            BOISE, IDAHO 83714            PHONE (208) 639-6939            FAX (208) 639-6930         </div> </div> </div>																			
<div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%;"> <tr> <td style="width: 60%;">DESIGN BY:</td> <td>LCK</td> </tr> <tr> <td>DRAWN BY:</td> <td>LCK/AFN</td> </tr> <tr> <td>CHECKED BY:</td> <td>KPM</td> </tr> <tr> <td>DATE:</td> <td>12/17/14</td> </tr> <tr> <td>PROJECT:</td> <td>14-031</td> </tr> </table> </div>		DESIGN BY:	LCK	DRAWN BY:	LCK/AFN	CHECKED BY:	KPM	DATE:	12/17/14	PROJECT:	14-031								
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<div style="border: 1px solid black; padding: 5px;"> <b>SHEET NO.</b>  <div style="text-align: center; font-size: 2em; font-weight: bold;">C4.0</div> </div>																			

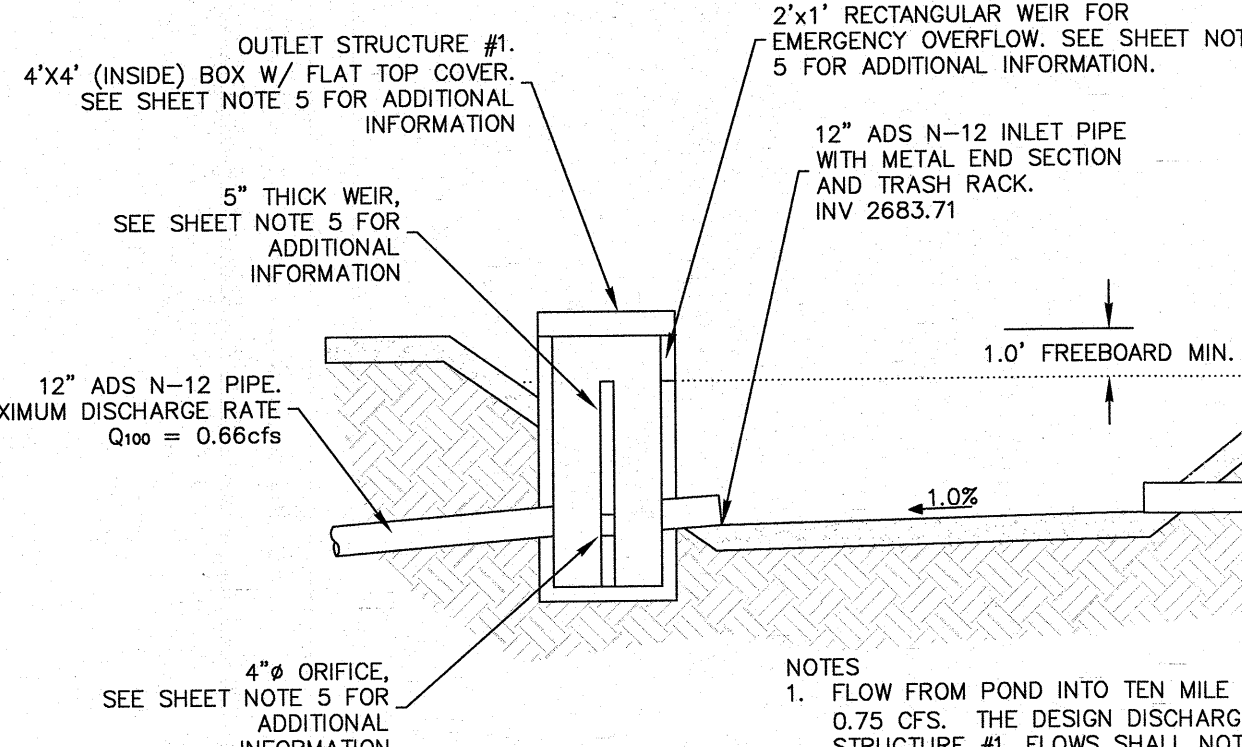
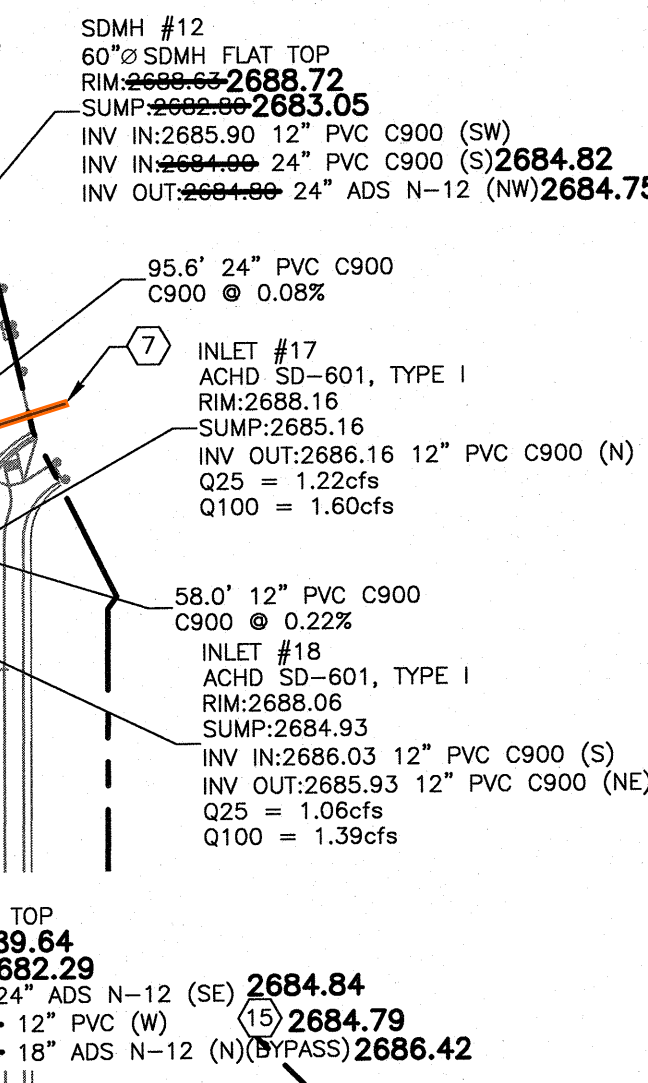


# RECORD DRAWINGS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART BASED UPON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL 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.

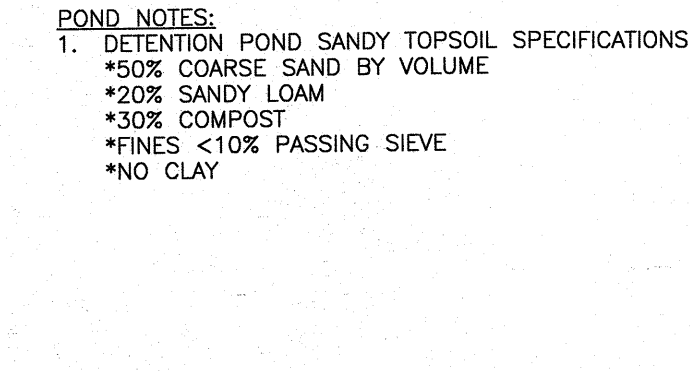


## FUTURE PHASE



## DETENTION POND PROFILE

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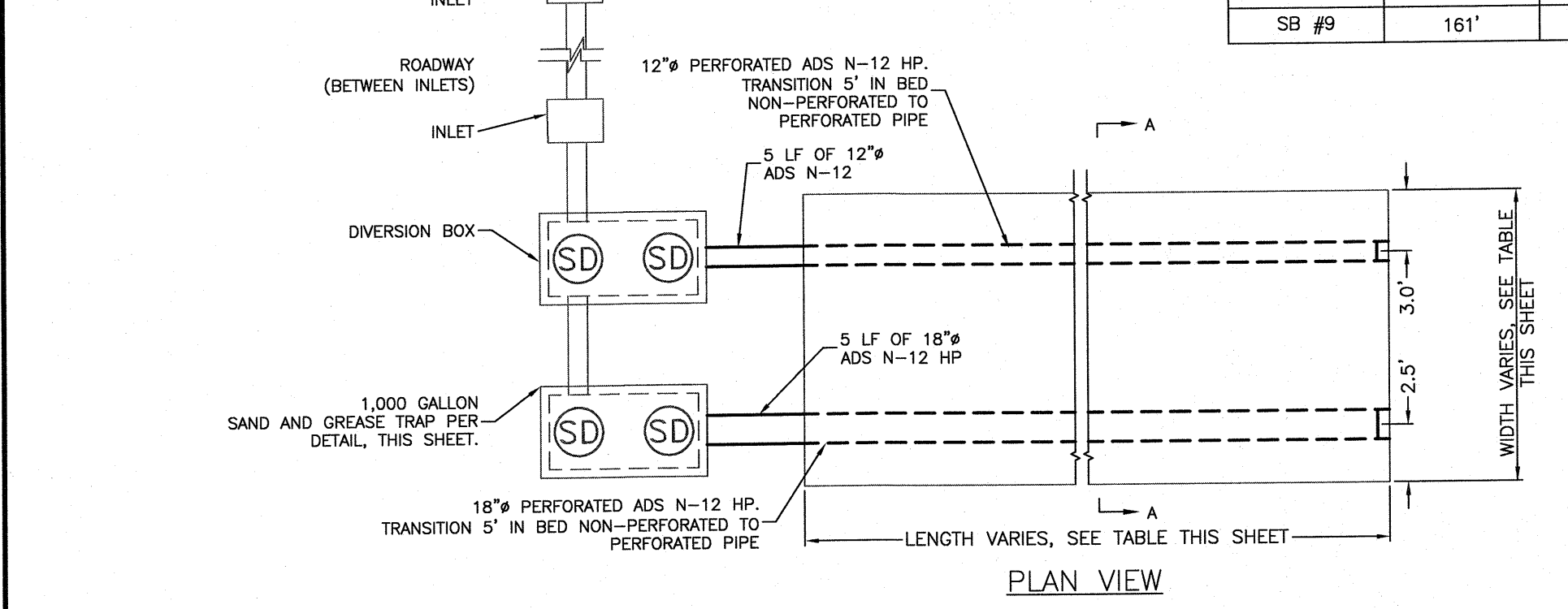


## FOREBAY/PRIMARY POND SECTION

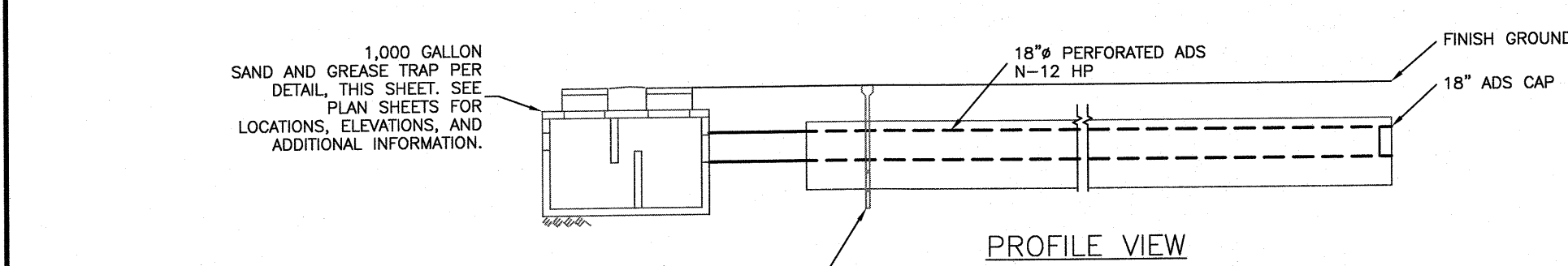
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- GENERAL NOTES**
1. REFER TO THE GEOTECHNICAL REPORT PREPARED BY MATERIALS TESTING AND INSPECTION, INC., DATED AUGUST 22, 2013. GROUNDWATER IS EXPECTED TO REMAIN AT A DEPTH OF APPROXIMATELY 5.1' BELOW EXISTING GROUND. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF GROUNDWATER IS ENCOUNTERED.
  2. CONTACT DESIGN ENGINEER FOR INFILTRATION BED REDESIGN IF GROUNDWATER IS ENCOUNTERED ABOVE MAX HSGW ELEVATION.
  3. ALL MANHOLES AND SAND AND GREASE TRAPS SHALL BE HS25 OR GREATER LOAD RATED.
  4. ALL GEOTEXTILE SEAMS SHALL OVERLAP 1 FOOT MINIMUM.
  5. BED WIDTH SHALL REMAIN CONSTANT.
  6. THE MINIMUM DESIGN PERCOLATION RATE FOR THE STORM DRAIN FACILITY IS 8.0 IN/HR TO MEET THE REQUIREMENT OF 90% VOLUME WITHIN 24HR AND SHALL BE VERIFIED IN FIELD.
  7. IF ROCK IS ENCOUNTERED, CONTRACTOR MUST HAVE A PERCOLATION TEST PERFORMED BY A SOILS ENGINEER AFTER SEEPAGE BED IS FULLY EXCAVATED. (NOTE: AN ACHD INSPECTOR MUST BE PRESENT FOR THE TEST). IF THE PERCOLATION IS LESS THAN SPECIFIED BY THE SOILS REPORT AND ENGINEER, CONTRACTOR MAY NEED TO BLAST OR BORE TO CREATE CONDUIT FOR DRAINAGE TO OCCUR OR RE-DESIGN THE SYSTEM TO ACHIEVE THE REQUIRED INFILTRATION.
  8. STORAGE VOLUME DOESN'T INCLUDE SAND WINDOW.
  9. WATER SERVICES, SEWER SERVICES, AND PRESSURE IRRIGATION MAINS CROSSING SEEPAGE BEDS SHALL BE INSTALLED PER DETAIL, SHEET C4.2. NO PENETRATIONS OF BED LINER WILL BE ALLOWED.

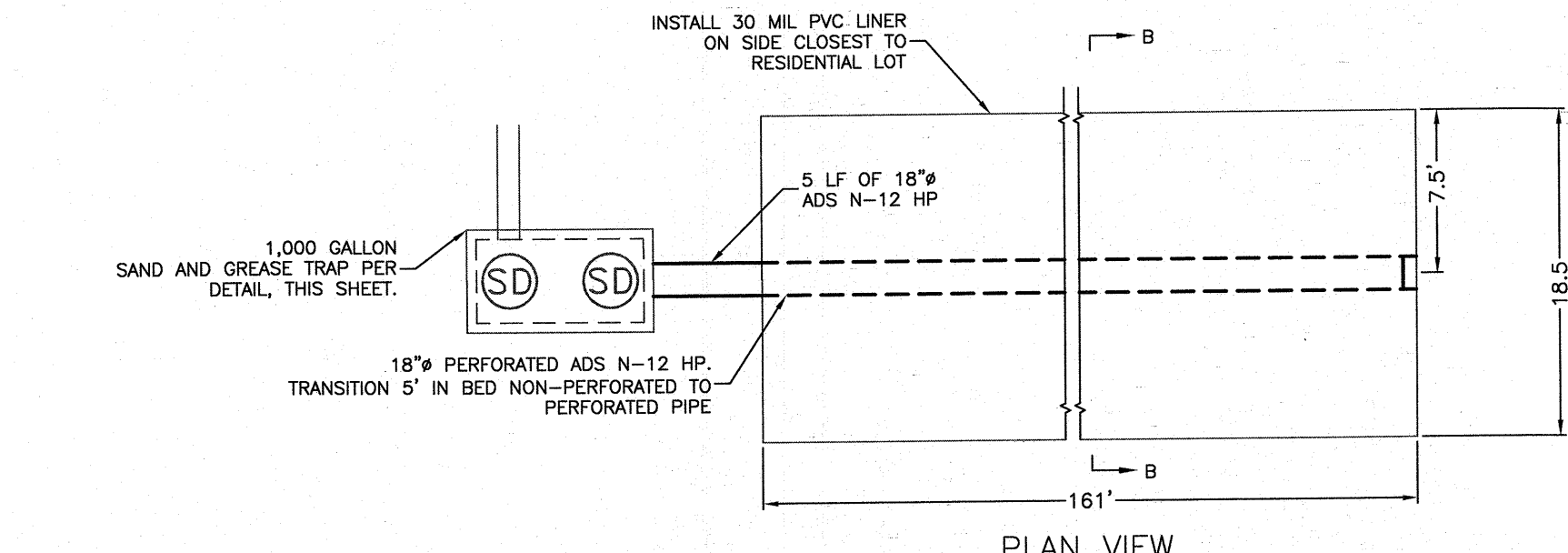
SEEPAGE BED	BED LENGTH	BED WIDTH	BED DEPTH	ELEVATION "A"	ELEVATION "B"	ELEVATION "C"	ELEVATION "D"	ELEVATION "E"	ELEVATION "F"	GROUND WATER EL.	100-YR VOLUME PROVIDED
SB #1	188'	12.5'	3.5'	2686.38	2685.13	2684.23	2681.63	2681.57	2682.91	2680.6±	2,964 CF
SB #2	243'	12.5'	3.5'	2685.56	2684.31	2683.41	2680.81	2680.75	2682.19	2680.6±	3,820 CF
SB #3	91'	12.5'	3.5'	2685.67	2684.42	2683.52	2680.92	2680.86	2682.24	2680.6±	1,429 CF
SB #4	128'	12.5'	3.5'	2685.67	2684.42	2683.52	2680.92	2680.86	2682.24	2680.6±	2,019 CF
SB #5	250'	12.5'	3.5'	2685.67	2684.42	2683.52	2680.92	2680.86	2682.24	2680.6±	3,930 CF
SB #6	270'	12.5'	3.5'	2685.78	2684.53	2683.63	2681.03	2680.97	2682.24	2680.6±	4,252 CF
SB #7	204'	16.5'	3.9'	2687.31	2686.06	2685.16	2682.56	2682.50	2683.82	2681.8±	4,836 CF
SB #8	161'	18.5'	3.0'	2688.35	2687.10	2686.20	2683.60	2683.54	2684.82	2683.7±	2,951 CF



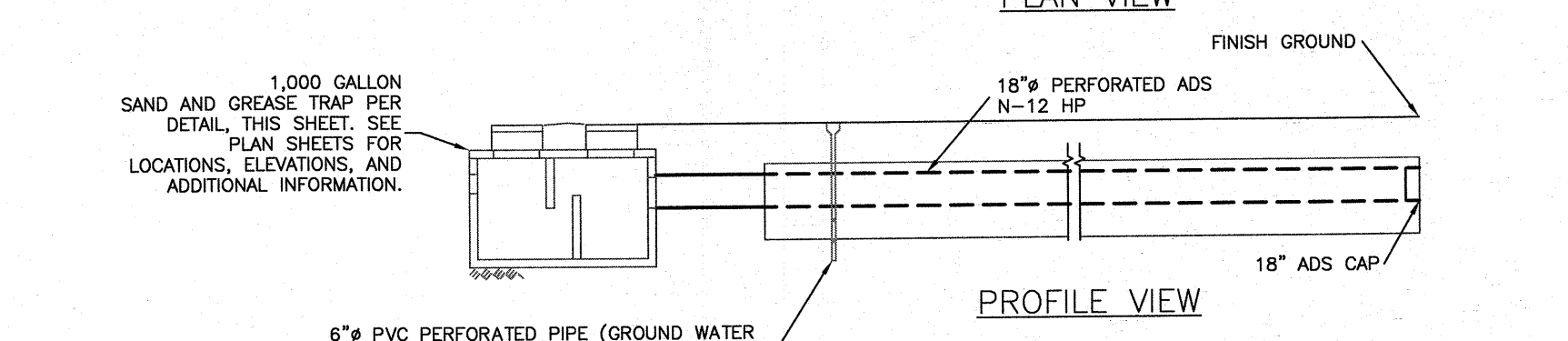
## PLAN VIEW



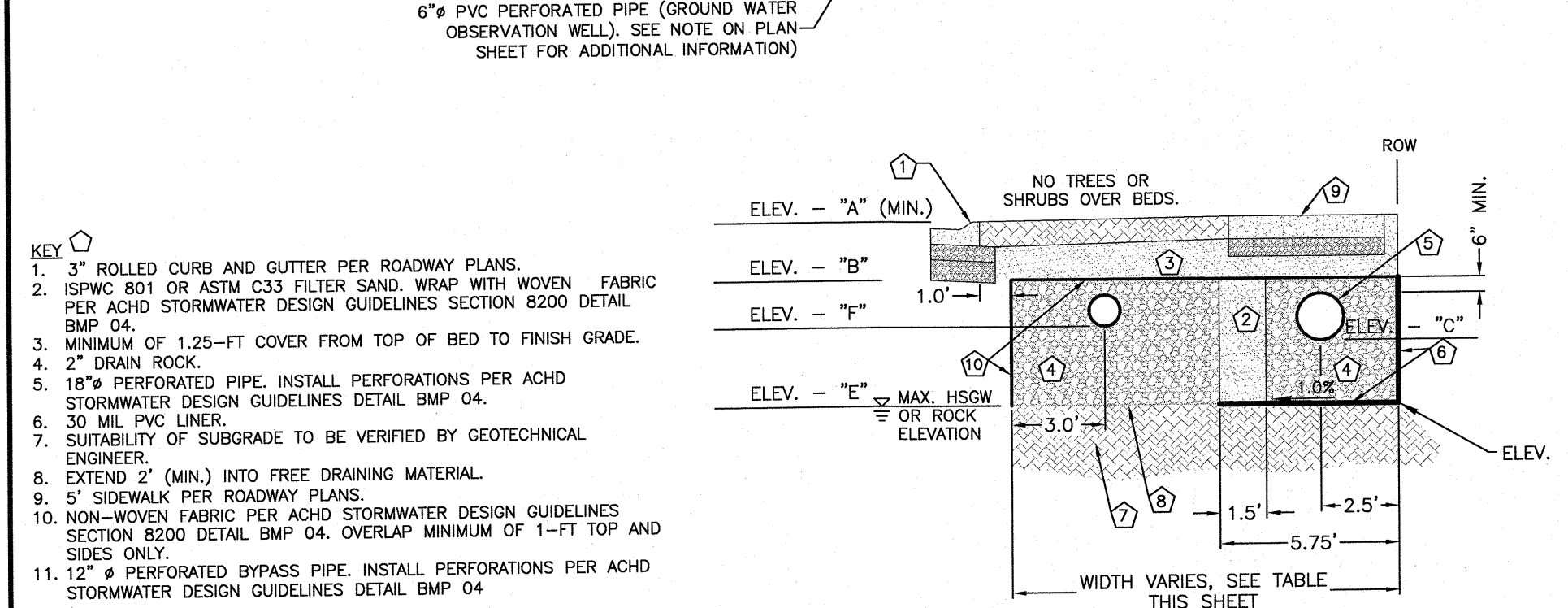
## PROFILE VIEW



## PLAN VIEW



## PROFILE VIEW

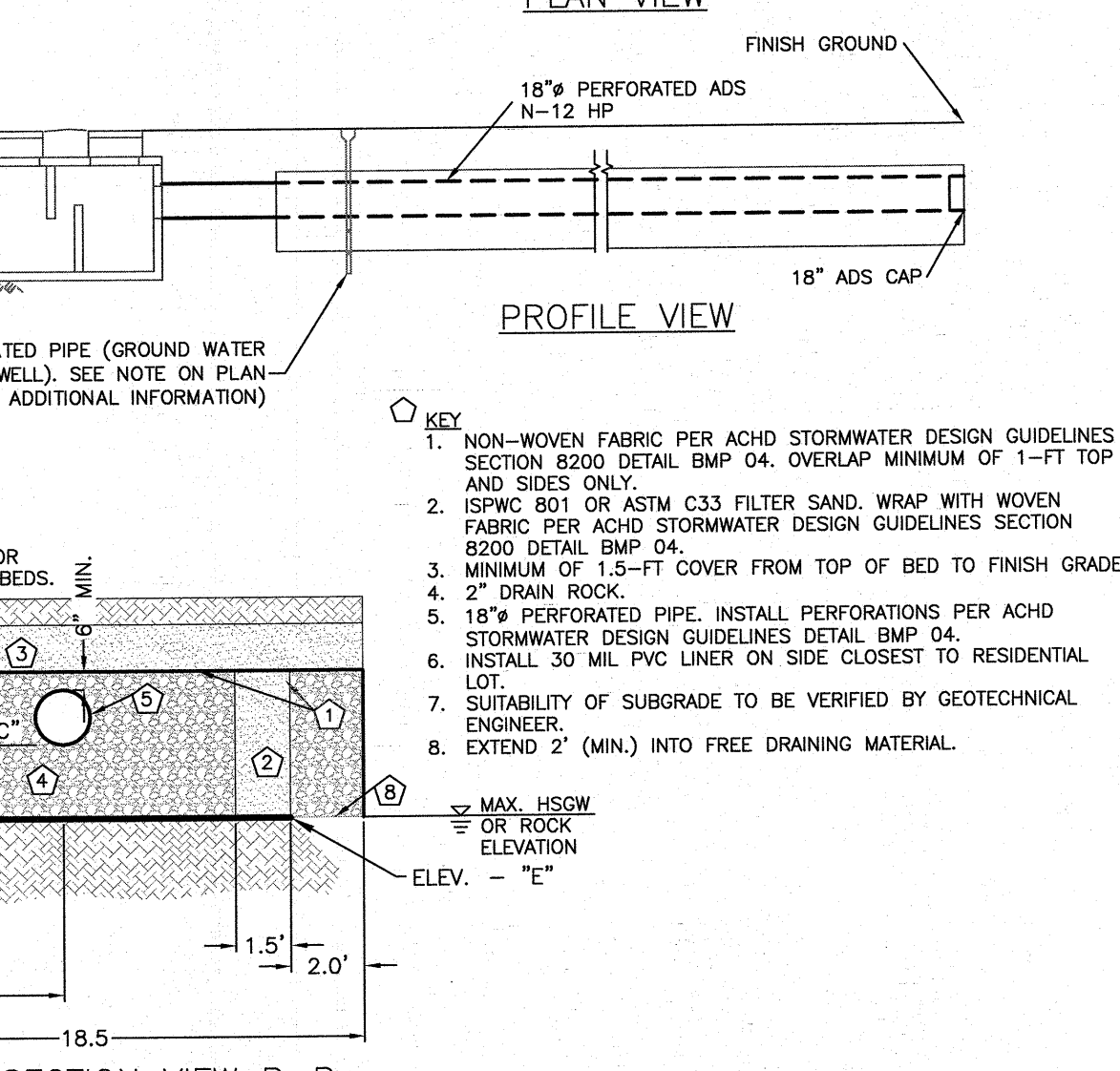


## SEEPAGE BED (SB #1-7)

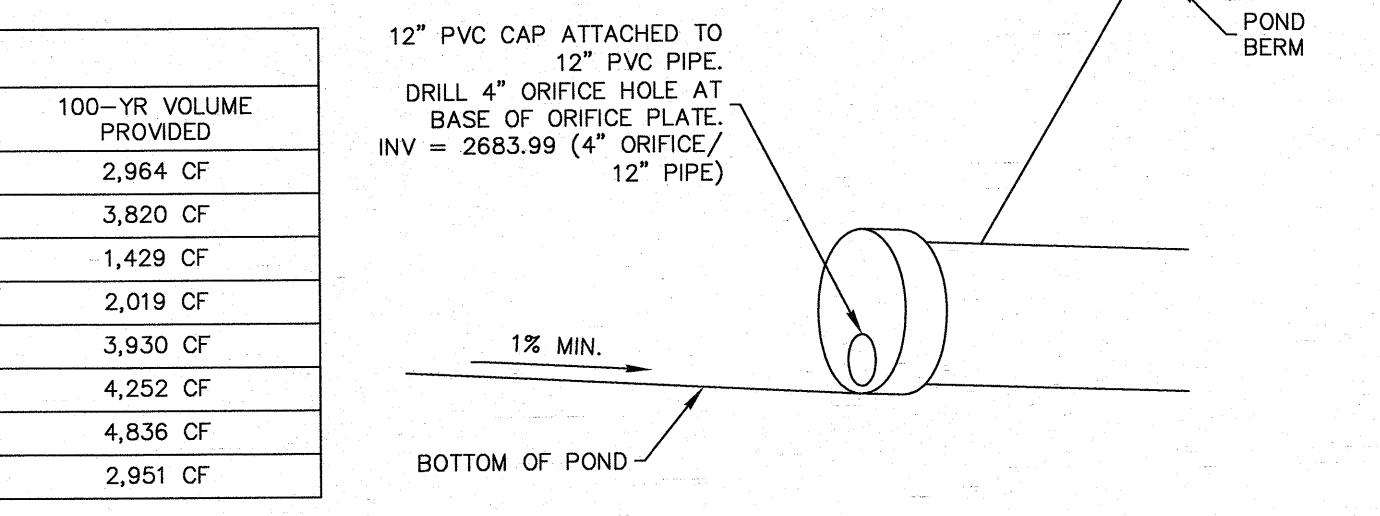
NTS

## SEEPAGE BED (SB #9)

NTS

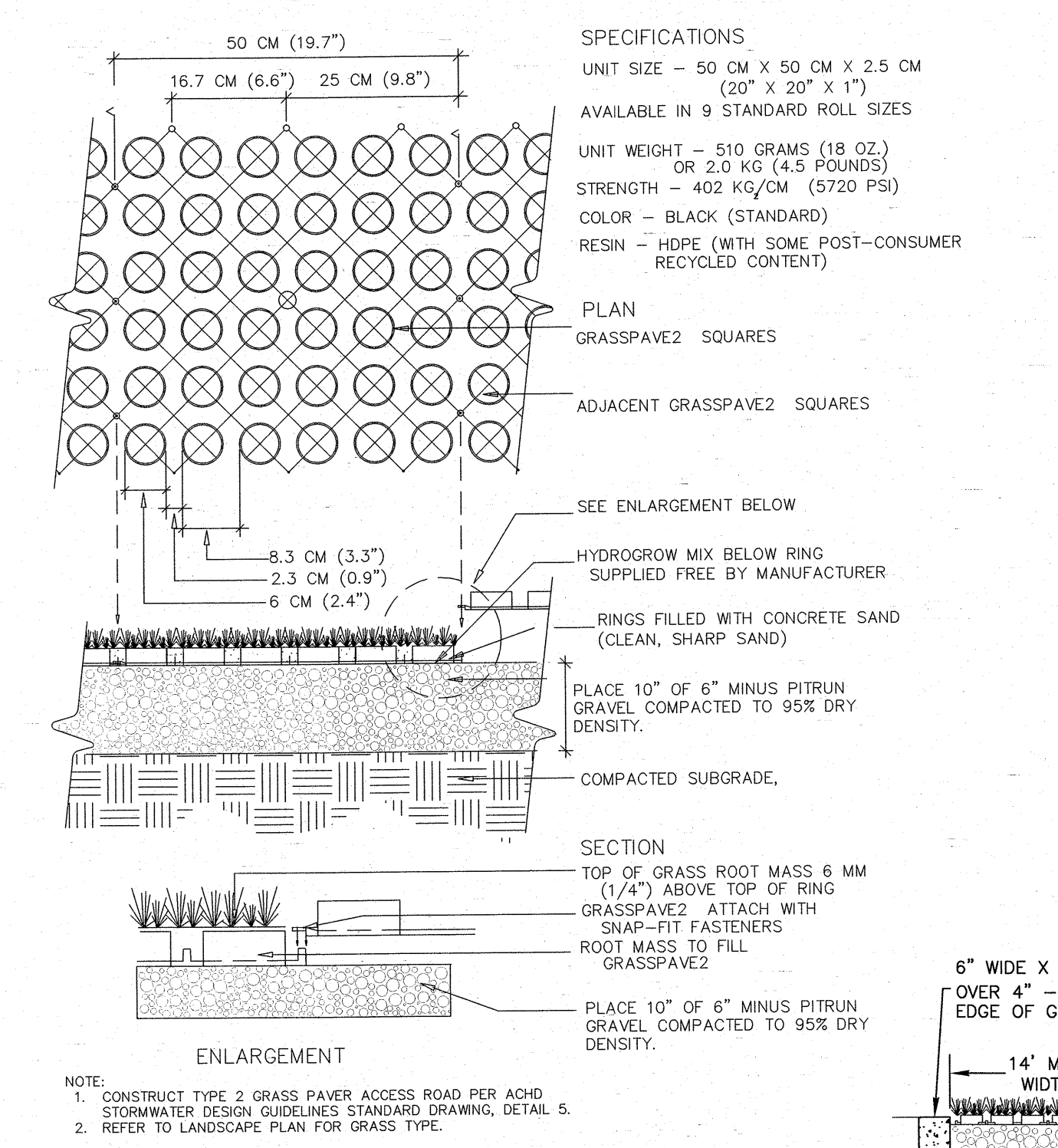


## SECTION VIEW B-B



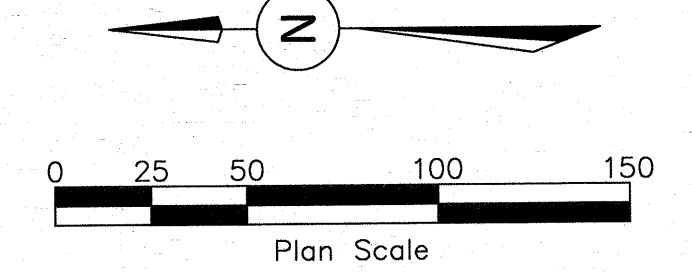
## END CAP WITH ORIFICE DETAIL

SCALE: NTS



## GRASSPAVE2 DETAIL

SCALE: NTS

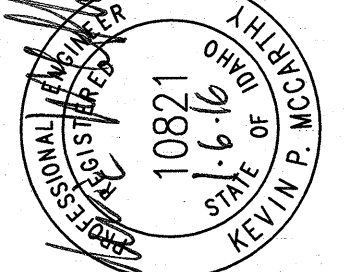


## SHEET NOTES

1. SEE SHEET C1.1 FOR GENERAL, ACHD, UTILITY, AND STORM DRAIN NOTES.
2. REFER TO THE GEOTECHNICAL REPORT PREPARED BY MATERIALS TESTING AND INSPECTION, INC., DATED AUGUST 22, 2013. GROUNDWATER IS EXPECTED TO REMAIN AT A DEPTH OF APPROXIMATELY 5.1' BELOW EXISTING GROUND. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF GROUNDWATER IS ENCOUNTERED.
3. PROVIDE WATER-TIGHT SEALS AT PIPING ENTRANCES/EXITS FOR SAND AND GREASE TRAP AND CATCH BASINS.
4. INSTALL SAND AND GREASE TRAP PER ACHD STORMWATER DESIGN GUIDELINES STANDARD DRAWING BMP 01, SHEET C4.2. Baffle Spacing Shall Be 20'.
5. ALL STORM PIPE WITHIN ROW SHALL BE C900. OUTSIDE OF ROW STORM PIPE SHALL BE ADS N-12 HP PIPE OR APPROVED EQUAL.

## KEYNOTES

1. INSTALL 1500 GAL SAND AND GREASE TRAP (SGT #9). RIM = 2686.29 (TOP OF LID) INV IN = 2684.64 (E) (12" C900) INV OUT = 2683.99 (N) (12" C900) 2684.41 OUTLET Baffle = 2684.54 RIM = 2690.09(S)
2. OUTFALL INV OUT = 2683.15 PROVIDE METAL END SECTION AND TRASH RACKS FOR POND OUTFALL. INSTALL FLOW SPREADER PER DETAIL, SHEET C4.2.
3. INSTALL DETENTION POND PER DETAILS, THIS SHEET. FOREBAY VOLUME PROVIDED = 6,566 CF PRIMARY VOLUME PROVIDED = 10,776 CF TOTAL VOLUME PROVIDED = 17,342 CF TOTAL VOLUME REQUIRED = 17,229 CF
4. INSTALL 12.0 LF 12" ADS N-12 @ 0.22% WITH END CAP AND 4" ORIFICE PER DETAIL, THIS SHEET. INV IN (SE) = 2686.29 (2"W X 1'H RECT ORIFICE) INV IN (SE) = 2683.68 (12" ADS N-12) INV OUT (NE) = 2683.58 (12" ADS N-12) CONCRETE WEIR TOP ELEV = 2686.29 INV OUT = 2683.58 (4" ORIFICE) SUMP = 2681.58
5. OUTFALL INV OUT = 2683.15 PROVIDE METAL END SECTION AND TRASH RACK. MAXIMUM ALLOWED DISCHARGE RATE FOR THE 100-YEAR EVENT IS 0.75 CFS. DESIGN DISCHARGE RATE IS 0.66 CFS.
6. TEN MILE CREEK WATER SURFACE ELEVATIONS: NORMAL: 2680.70 10-YR: 2683.89 20-YR: 2684.28 25-YR: 2684.42 50-YR: 2684.82 100-YR: 2685.23
7. STUB 24-INCH STORM PIPE FOR FUTURE CONNECTION WITH WATER TIGHT PLUG. INV. = 2684.98 MAXIMUM Q100 = 7.96 CFS MAXIMUM Q25 = 6.36 CFS MAXIMUM Q50 = 3.24 CFS TOTAL 100-YEAR VOLUME (FUTURE DEVELOPMENT) = 15,769 CF
8. INSTALL 328 LF OF BORROW DITCH PER DETAIL SHEET C2.10 (SW #3). INSTALL TWO (2) - 10'x2'W AND ONE (1) 15'x2'W SAND WINDOWS.
9. INSTALL 128 LF OF BORROW DITCH PER DETAIL SHEET C2.10 (SW #4). INSTALL TWO (2) - 15'x2'W SAND WINDOWS.
10. INSTALL 280 LF OF BORROW DITCH PER DETAIL SHEET C2.10 (SW #5). INSTALL TWO (2) - 10'x2'W SAND WINDOWS.
11. INSTALL 14' WIDE GRAVEL MAINTENANCE ROAD, TYPE 3, PER ACHD STORMWATER DESIGN GUIDELINES SECTION 8200, DETAIL 5, FOR ACHD MAINTENANCE.
12. INSTALL GROUND WATER OBSERVATION WELL PER DETAIL, SHEET C4.2. MONITORING WELL SHALL CONFORM TO THE SPECIFICATIONS AND REQUIREMENTS PER ACHD STORMWATER DESIGN GUIDELINES SECTION 8200 DETAIL 7. MONITORING WELL LID SHALL BE MORRIS INDUSTRIES, INC., OR APPROVED EQUIVALENT WITH CONCRETE COLLAR SET FLUSH WITH FINISH GRADE. THE PORTION OF THE PIPE LYING IN DRAINAGE SAND MUST BE WRAPPED IN A DRAINAGE GEOTEXTILE, TYPE 1 PER ISPCW SECTION 2060.
13. OUTFALL INV OUT = 2683.15 PROVIDE METAL END SECTION AND TRASH RACKS FOR POND OUTFALL. INSTALL FLOW SPREADER PER DETAIL, SHEET C4.2.
14. INSTALL GRASS PAVERS (GRASSPAVE2 OR APPROVED EQUAL) FOR MAINTENANCE ACCESS ROAD AND RAMP TO FOREBAY PER DETAIL, THIS SHEET.
15. INSTALL 9" ORIFICE PLATE ON PIPE INLET TO SGT #9 TO LIMIT FLOW RATE TO 4.5 CFS. PEDRO PLASTICS FRAMED INLET CONTROL DEVICE FOR 60" MANHOLE (12" OUTER Ø WITH REMOVABLE 9" ORIFICE PLATE CENTERED ON OUTLET PIPE), OR APPROVED EQUIVALENT.

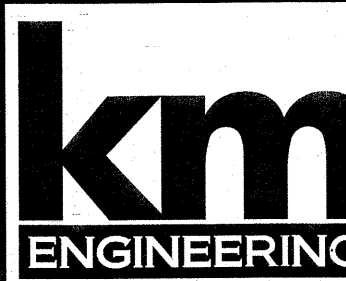


NO.	DATE	REVISIONS
1	2/25/15	ACHD AND CITY OF MERIDIAN COMMENTS
2	03/26/15	REMOVED EAGLE RD. AND TACONIC FROM PROJECT
3	4/7/15	REVISED SEWER PLANS
4	4/22/15	TACONIC DR. AND EAGLE RD. REVISIONS
5	5/13/15	ACHD COMMENTS

HILL'S CENTURY FARM SUBDIVISION - PHASE I  
MERIDIAN, IDAHO  
STORM WATER IMPROVEMENT PLANS

## DRAWING STATUS:

RECORD DRAWINGS



DESIGN BY: LCK  
DRAWN BY: LCK/AFN  
CHECKED BY: KPM  
DATE: 12/17/14  
PROJECT: 14-031

9233 WEST STATE STREET  
BOISE, IDAHO 83714  
PHONE (208) 639-6939  
FAX (208) 639-6930

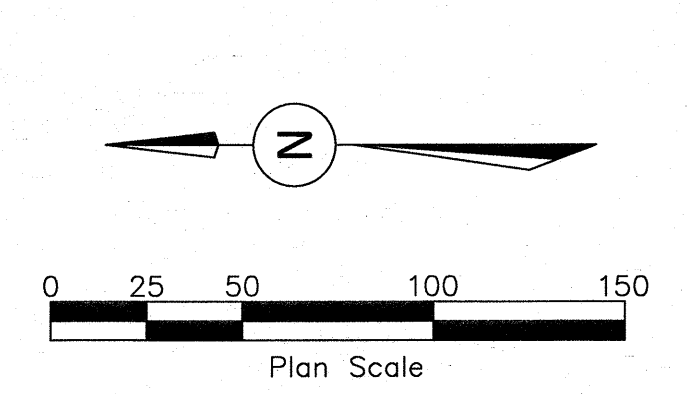
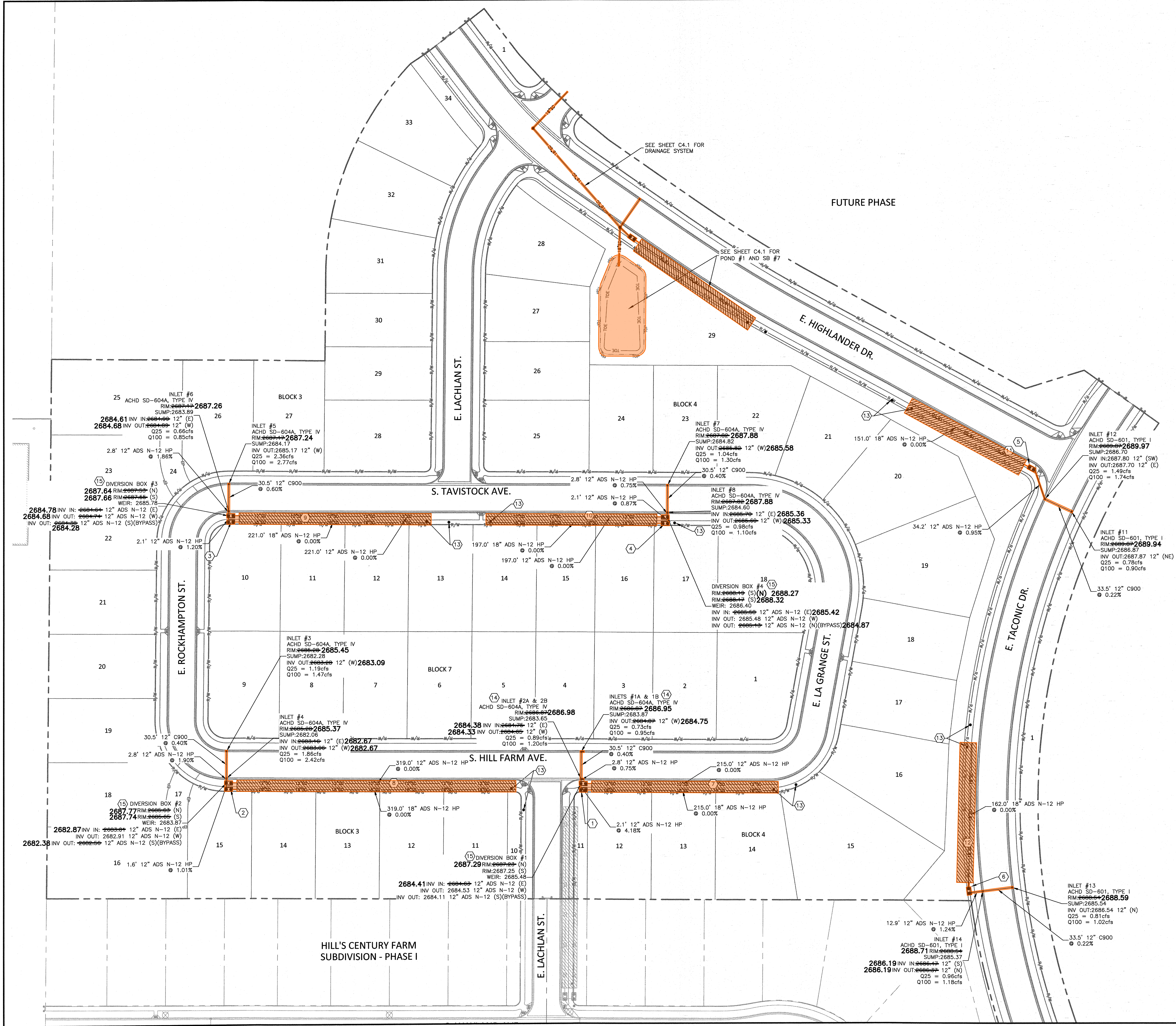
SHEET NO.

C4.1

RECORD DRAWINGS



P:\14\031\CAD\AS-BUILD\PHASE 2\14-031 STORM.DWG, ANDREW NEWELL, 12/16/2016, CEE PLOTNAME: 860\_A3\_1X861.1



- SHEET NOTES**
- SEE SHEET C1.1 FOR GENERAL, ACHD, UTILITY, AND STORM DRAIN NOTES.
  - SEE SHEET C4.1 AND C4.2 FOR STORM WATER DETAILS.
  - REFER TO THE GEOTECHNICAL REPORT PREPARED BY MATERIALS TESTING AND INSPECTION, INC., DATED AUGUST 22, 2013. GROUNDWATER IS EXPECTED TO REMAIN AT A DEPTH OF APPROXIMATELY 6'-8.5' BELOW EXISTING GROUND. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF GROUND WATER IS ENCOUNTERED.
  - PROVIDE WATER-TIGHT SEALS AT PIPING ENTRANCES/EXITS FOR SAND AND GREASE TRAP AND CATCH BASINS.
  - INSTALL 1000 GAL SAND AND GREASE TRAPS PER ACHD STORMWATER DESIGN GUIDELINES STANDARD DRAWING BMP 01, SHEET C4.2. BAFFLE SPACING SHALL BE 20".
  - ALL STORM PIPE WITHIN ROW SHALL BE C900. OUTSIDE OF ROW STORM PIPE SHALL BE ADS N-12 HP PIPE OR APPROVED EQUAL.

- KEYNOTES**
- INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #1).  
RIM = 2687.36 (N)  
RIM = 2687.38 (S)  
INV IN = 2684.44 (E) (12" ADS N-12)  
INV OUT = 2684.34 (S) (18" ADS N-12) **2683.51**  
OUTLET BAFFLE = 2684.34  
INLET BAFFLE = 2683.26
  - INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #2).  
RIM = 2685.76 (N)  
RIM = 2685.78 (S)  
INV IN = 2682.06 (E) (12" ADS N-12) **2682.81**  
INV OUT = 2682.06 (S) (18" ADS N-12) **2681.75**  
OUTLET BAFFLE = 2682.79  
INLET BAFFLE = 2682.21
  - INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #3).  
RIM = 2687.66 (N)  
RIM = 2687.69 (S)  
INV IN = 2684.71 (E) (12" ADS N-12)  
INV OUT = 2683.80 (S) (18" ADS N-12) **2683.81**  
OUTLET BAFFLE = 2684.61  
INLET BAFFLE = 2684.03
  - INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #4).  
RIM = 2688.30 (N)  
RIM = 2688.30 (S)  
INV IN = 2684.44 (E) (12" ADS N-12) **2685.36**  
INV OUT = 2683.36 (S) (18" ADS N-12) **2683.44**  
OUTLET BAFFLE = 2685.36  
INLET BAFFLE = 2684.78
  - INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #5).  
RIM = 2690.90 (NE)  
RIM = 2690.90 (SW) **2690.90**  
INV IN = 2687.77 (SW) (12" ADS N-12) **2687.27**  
INV OUT = 2686.87 (NE) (18" ADS N-12) **2686.82**  
OUTLET BAFFLE = 2687.27  
INLET BAFFLE = 2686.69
  - INSTALL 1000 GAL SAND AND GREASE TRAP (SGT #6).  
RIM = 2689.29 (W)  
RIM = 2689.31 (E)  
INV IN = 2686.36 (W) (12" ADS N-12) **2686.10**  
INV OUT = 2685.36 (E) (18" ADS N-12) **2685.50**  
OUTLET BAFFLE = 2686.11  
INLET BAFFLE = 2685.53
  - SB #1 SEE DETAIL ON SHEET C4.2  
(210' L x 12.5' W x 3.75' D)
  - SB #2, SEE DETAIL ON SHEET C4.2  
(314' L x 12.5' W x 4.50' D)
  - SB #3, SEE DETAIL ON SHEET C4.2  
(216' L x 12.5' W x 6.50' D)
  - SB #4, SEE DETAIL ON SHEET C4.2  
(192' L x 12.5' W x 4.50' D)
  - SB #5, SEE DETAIL ON SHEET C4.1  
(146' L x 16.5' W x 4.50' D)
  - SB #6, SEE DETAIL ON SHEET C4.1  
(157' L x 16.5' W x 3.25' D)
  - INSTALL GROUND WATER OBSERVATION WELL PER DETAIL, SHEET C4.2. MONITORING WELL SHALL CONFORM TO THE SPECIFICATIONS AND REQUIREMENTS PER ACHD STORMWATER DESIGN GUIDELINES SECTION 8200 DETAIL 7. MONITORING WELL LID SHALL BE MORRIS INDUSTRIES INC., OR APPROVED EQUIVALENT WITH CONCRETE COLLAR SET FLUSH WITH FINISH GRADE. THE PORTION OF THE PIPE LYING IN DRAINAGE SAND MUST BE WRAPPED IN A DRAINAGE GEOTEXTILE, TYPE 1 PER ISPMW SECTION 2060. OBSERVATION WELLS INSIDE SEEPAGE BED MUST EXTEND A MINIMUM OF 1' BELOW THE BOTTOM OF THE SAND AND MUST BE PLACED WITHIN THE INFILTRATION BED 5' FROM THE END. OUTSIDE OBSERVATION WELL MUST BE PLACED A MINIMUM OF 20' FROM THE PERIMETER OF THE BED.
  - INSTALL (2) INLET CATCH BASIN TYPE IV (ROLLED CURB) PER ACHD SUPPLEMENTAL STANDARD DRAWING SD-604A OR APPROVED EQUIVALENT. INLETS SHALL BE INTERCONNECTED.
  - REFER TO DIVERSION MANHOLE PER DETAIL, SHEET C4.2.

**RECORD DRAWINGS**

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DATE

3/19/15

ITEM

ACHD AND CITY OF MERIDIAN COMMENTS

NO.

1

DATE

4/23/15

ITEM

ACHD AND CITY OF MERIDIAN COMMENTS

NO.

2

DATE

5/20/15

ITEM

REVISED STORMWATER PLANS PER ACHD COMMENTS.

NO.

3

DATE

10/21/15

ITEM

REVISED STORMWATER PLANS PER ACHD COMMENTS.

NO.

4

DATE

10/21/15

ITEM

REVISED STORMWATER PLANS PER ACHD COMMENTS.

NO.

5

HILL'S CENTURY FARM SUBDIVISION - PHASE 2

MERIDIAN, IDAHO

STORM IMPROVEMENT PLANS

DRAWING STATUS:

RECORD DRAWINGS

**km**

ENGINEERING

ENGINEERS, SURVEYORS, PLANNERS

9233 WEST STATE STREET  
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LCK

DRAWN BY:

LCK

CHECKED BY:

KPM

DATE:

1/28/15

PROJECT:

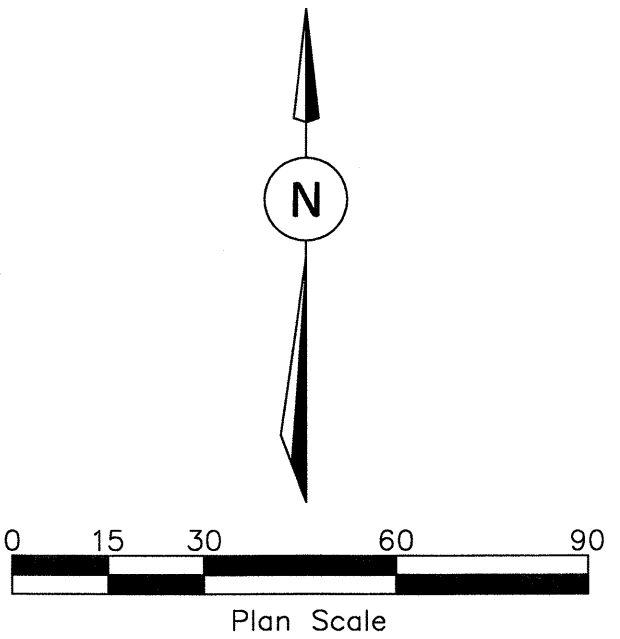
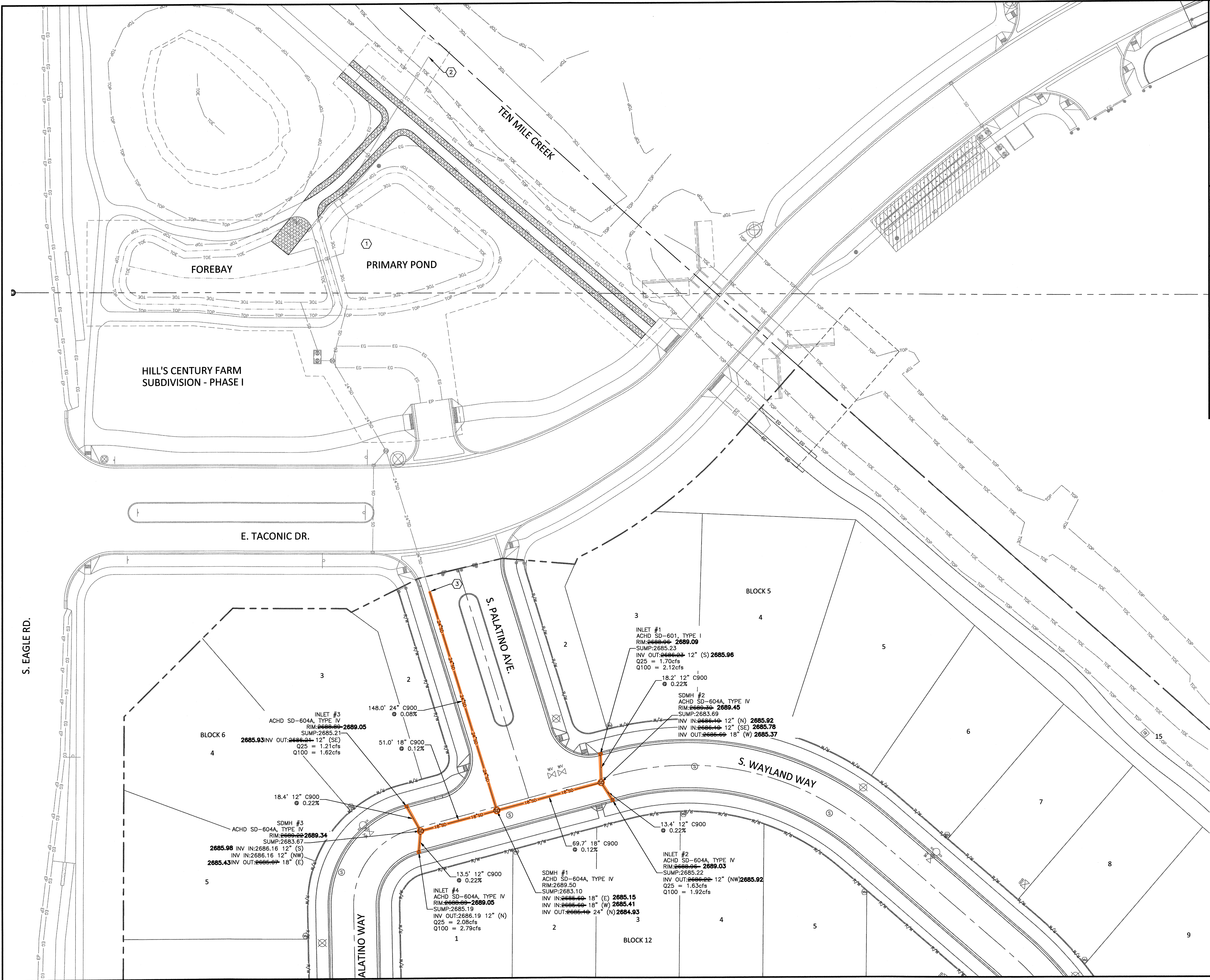
14-031

SHEET NO.

C4.0

RECORD DRAWINGS





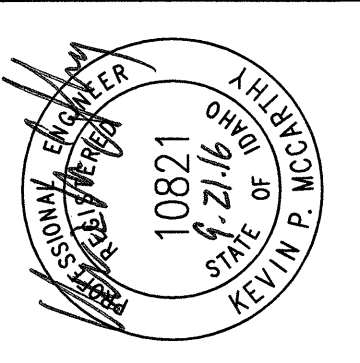
- SHEET NOTES**
1. SEE SHEET C1.1 FOR GENERAL, ACHD, UTILITY, AND STORM DRAIN NOTES.

2. PROVIDE WATER-TIGHT SEALS AT PIPING EXITS FOR CATCH BASINS.

3. ALL STORM PIPE WITHIN ROW SHALL BE C900.
- KEYNOTES**
1. DETENTION POND TO BE INSTALLED PER PHASE 1 PLANS. FOREBAY VOLUME PROVIDED = 6,566 CF. PRIMARY VOLUME PROVIDED = 10,776 CF. TOTAL VOLUME PROVIDED = 17,343 CF. TOTAL VOLUME REQUIRED = 17,181 CF.

2. OUTFALL FROM DETENTION POND TO TEN MILE CREEK TO BE INSTALLED PER PHASE 1 PLANS. MAXIMUM ALLOWED DISCHARGE RATE FOR THE 100-YEAR EVENT IS 0.75 CFS. DESIGN DISCHARGE RATE IS 0.66 CFS.

3. CONNECT TO EXISTING 24-INCH STORM PIPE.  
INV. = 2685.09  
MAXIMUM Q100 = 7.96 CFS (PHASE 3)  
MAXIMUM Q25 = 6.36 CFS (PHASE 3)  
MAXIMUM Qwq = 3.24 CFS (PHASE 3)  
  
TOTAL 100-YEAR  
VOLUME (PHASE 3) = 15,769 CF



REVISIONS		DATE
NO.	ITEM	ACHD COMMENTS
1	ACHD COMMENTS	7/17/15
2	ACHD AND CITY OF MERIDIAN COMMENTS	8/9/15

HILL'S CENTURY FARM SUBDIVISION - PHASE 3

MERIDIAN, IDAHO

STORM IMPROVEMENT PLAN

DRAWING STATUS:

RECORD DRAWINGS

**km**  
ENGINEERING

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PROJECT:	15-041
SHEET NO.	C4.0

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RECORD DRAWINGS