SUN CREST MEADOWS SUBDIVISION PHASE 2

PROJECT NOTES

CONSTRUCTION NOTES:

ALL CONSTRUCTION TO BE TO WEBER COUNTY OR APWA 2017 STANDARDS. IN THE EVENT THERE IS NO APPLICABLE STANDARD, CONTACT PROJECT ENGINEER/COUNTY ENGINEER. CONTRACTOR MUST ATTEND PRE-CONSTRUCTION CONFERENCE WITH COUNTY AND UDOT PRIOR TO COMMENCING WORK.

PRIOR TO CONSTRUCTION, CONTRACTOR TO LOCATE ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR UNCOVERING, VERIFICATION AND PROTECTION OF ALL EXISTING UTILITIES.

SOILS TESTING TO BE PERFORMED ON PROJECT. ESPECIALLY FOR TRENCH RESTORATION. OWNER FUNDAMENTALLY WILL BE PAYING FOR SOILS TESTING BUT SUCH TO BE NEGOTIATED PRIOR TO START OF CONSTRUCTION (I.E. PERHAPS OWNER PAYS FOR ALL PASSING TESTS, CONTRACTOR FOR FAILING ONES, ETC.)

GRADING NOTES:

NATIVE SUBGRADE AND ROADBASE (UTC) TO BE COMPACTED TO 95% (MODIFIED PROCTOR AASHTO T-180).

ALL WORK TO BE DONE TO SPECIFICATIONS OF GEOTECHNICAL REPORT WHERE/IF APPLICABLE.

WATER: FIRE HYDRANT IS LOCATED NEARBY ON THE EAST SIDE OF 4850 NEAR THE BEGINNING OF PHASE 2 - CONTACT TAYLOR-WEST WEBER WATER DISTRICT FOR DETAILS/USAGE.

OBTAIN APPROPRIATE SWPPP PERMIT PRIOR TO COMMENCEMENT OF WORK.

IMPORTANT NOTE: ALL UTILITY TRENCHES TO BE COMPACTED TO 95%!

WATER:

ALL CULINARY WATER LINE CONSTRUCTION TO MEET TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT STANDARDS (SEE SHEET 11 FOR TAYLOR-WEST WEBER WATER STANDARD DETAILS AND SPECIFICATIONS). WATER TIE-IN IS SHOWN AS CONNECTING TO EXISTING 10" WATERLINE FROM SUNCREST MEADOWS PHASE 1 IN 4850 WEST AS SHOWN. ALL REQUIREMENTS NEED TO BE MET AND FINAL APPROVAL OBTAINED FROM TAYLOR-WEST WEBER WATER DISTRICT. WATER PIPING TO BE 10" PVC C-900 DR-18. ALL SERVICE LATERALS TO BE 1" POLY W/ SETTER.

FIRE PROTECTION:

FIRE PROTECTION IS UNDER THE AUSPICES OF THE WEBER FIRE DISTRICT. EXISTING FIRE HYDRANTS ARE LOCATED NEARBY. CONSULT WITH THE COUNTY FIRE MARSHALL TO REVIEW SUBDIVISION PLANS FOR VERIFICATION OF FIRE PROTECTION PARAMETERS. ALL REQUIREMENTS NEED TO BE MET AND FINAL APPROVAL OBTAINED FROM WEBER FIRE DISTRICT.

SECONDARY WATER/IRRIGATION:

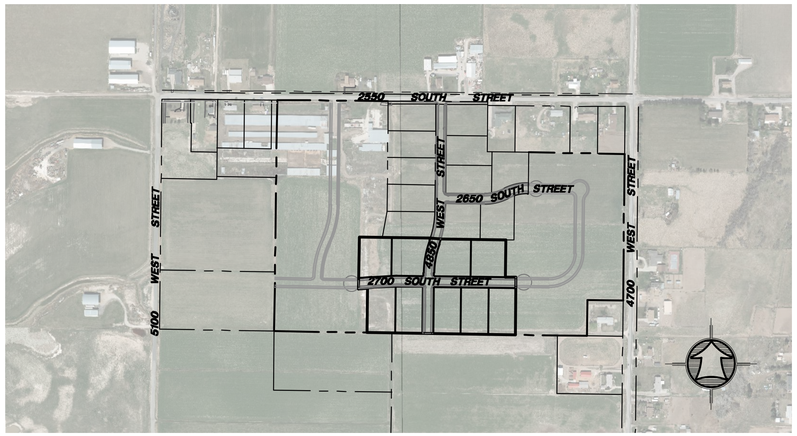
ALL SECONDARY WATER LINE CONSTRUCTION TO MEET HOOPER IRRIGATION COMPANY STANDARDS. 8" PIPING WILL CONNECT TO THE EXISTING IRRIGATION LINE ON 4850 WEST STREET. SECONDARY WATER PIPING WILL NEED TO BE 8" PVC PIPE. ALL SERVICE LATERALS TO BE 1" POLY.

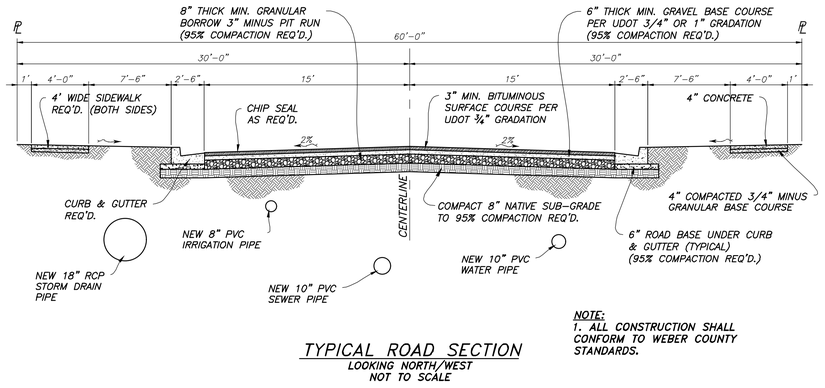
SEWER:

SEWER IS UNDER THE AUSPICES OF WEBER COUNTY/CENTRAL WEBER SEWER IMPROVEMENT DISTRICT. SEWER TIE-IN IS SHOWN AS CONNECTING TO EXISTING SEWER MANHOLE AT THE END OF SUN CREST MEADOWS PHASE 1. THE SEWER ON 4850 WEST STREET'S CONNECTION MUST MEET WEBER COUNTY STANDARDS. PROVIDE CLEANOUTS FOR LATERAL LINES PER CODE. ON-SITE SEWER 'MAIN' PIPING TO BE 10" PVC SDR 35.

STORM DRAINAGE:

STORM DRAINAGE IS UNDER THE AUSPICES OF WEBER COUNTY. STORM DRAIN TIE-IN IS SHOWN AS CONNECTING TO EXISTING STORM DRAIN FROM SUN CREST MEADOWS PHASE 1 TO THE NORTH.





TYPICAL ROAD SECTION
LOOKING NORTH/WEST
NOT TO SCALE

NOTE:
1. ALL CONSTRUCTION SHALL CONFORM TO WEBER COUNTY STANDARDS.

ELECTRIC:

TO BE DETERMINED PER PROVIDER.

TELEPHONE:

TO BE DETERMINED PER PROVIDER.

GAS:

TO BE DETERMINED PER PROVIDER.

STRUCTURAL SECTION:

CONTRACTOR TO BID COUNTY MINIMUM STRUCTURAL SECTION OF 3 INCHES ASPHALT ON 6 INCHES GRAVEL BASE COURSE ON 8 INCHES GRANULAR BORROW ON 8 INCHES OF COMPACTED NATIVE SUB-GRADE. SUCH APPLIES TO ALL UTILITY CROSSINGS ALSO.

ACCESS/CONSTRUCTION SITE:

CONTRACTOR TO WORK OUT ACCESS PLAN WITH WEBER COUNTY FOR CONSTRUCTION TRAFFIC ROUTING.

INSPECTION CONTACTS:

PRIMARY COUNTY INSPECTOR: BRADEN FELIX - (801)-399-8761
CULINARY WATER: TAYLOR-WEST WEBER WATER DISTRICT (VAL SURRAGE) - (801)-731-1668
FIRE PROTECTION: WEBER FIRE DISTRICT (BRANDON THEUSON) - (801)-782-3580
STORM DRAIN: WEBER COUNTY (BRADEN FELIX) - (801)-399-8761
SEWER: WEBER COUNTY (CHAD MEYERHOFFER) - (801)-399-8374

PROJECT ENGINEER:

JAMES FLINT
UTAH PE 7806324-2202

DATE

SHEET INDEX:

HANSEN & ASSOCIATES, INC.
Consulting Engineers and Land Surveyors
538 North Main Street, Brigham, Utah 84302
Brigham City, us at www.hales.net Logan
(435) 723-3491 (801) 399-4905 (435) 752-8272

No.	Date	By	Revision

Drawn By: MTH Date: 09/18/18
Designed By:
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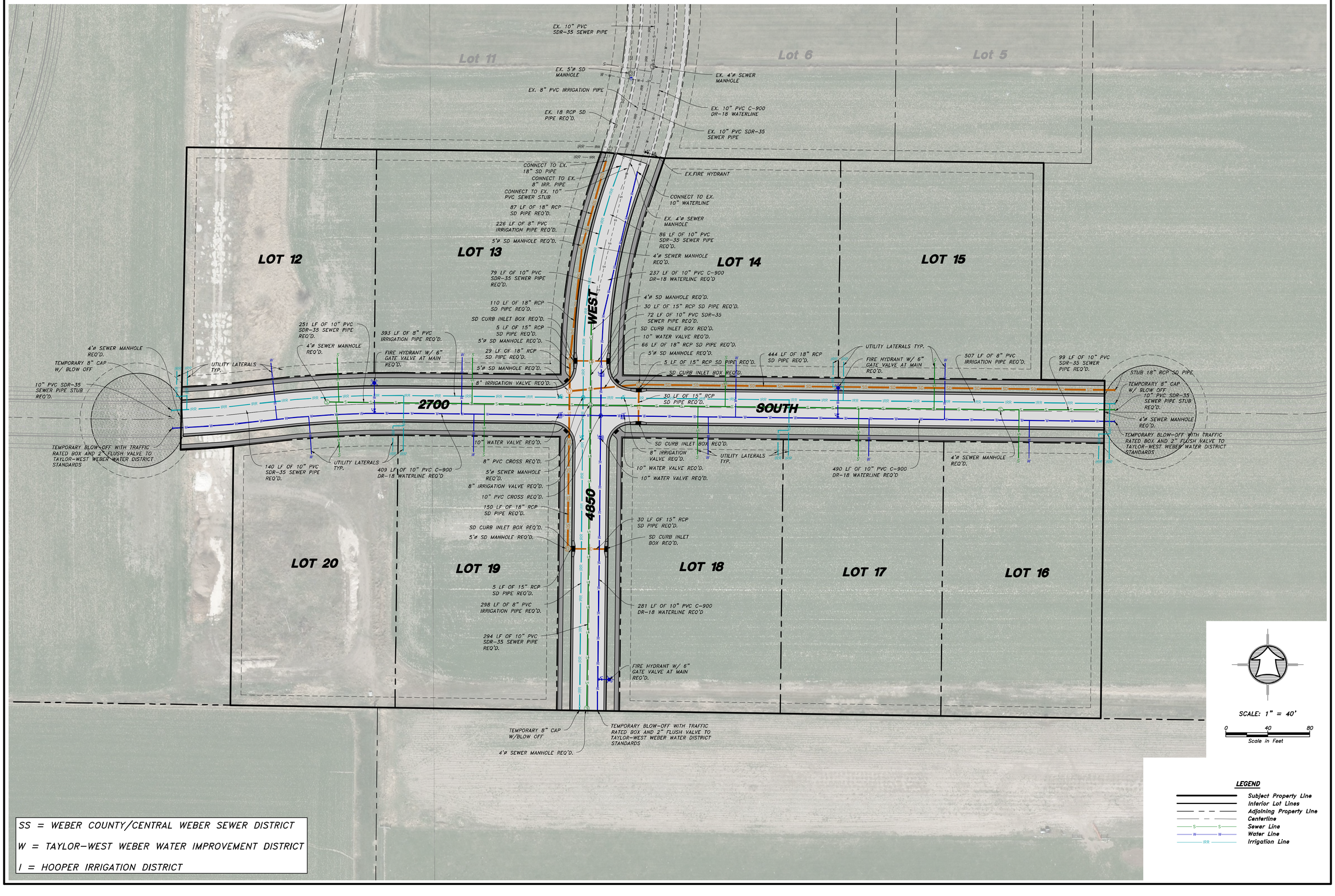
Scale:
Drawing File: 16-105r16(09-18-18)ph2
JOB NUMBER: 16-105

PROJECT NOTES FOR
SUN CREST MEADOWS SUBDIVISION PHASE 2
2700 SOUTH 4850 WEST
TAYLOR, UT 84401

Sheet 1 of 8 Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

MASTER UTILITY PLAN



SS = WEBER COUNTY/CENTRAL WEBER SEWER DISTRICT

W = TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT

I = HOOPER IRRIGATION DISTRICT

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Drawn By: MTH Date: 09/18/18

Designed By:

Checked By:

Approved By:

Scale: 1" = 50'

Drawing File: 16-105r16(09-18-18)ph2

JOB NUMBER: 16-105

MASTER UTILITY PLAN FOR

SUN CREST MEADOWS SUBDIVISION PHASE 2

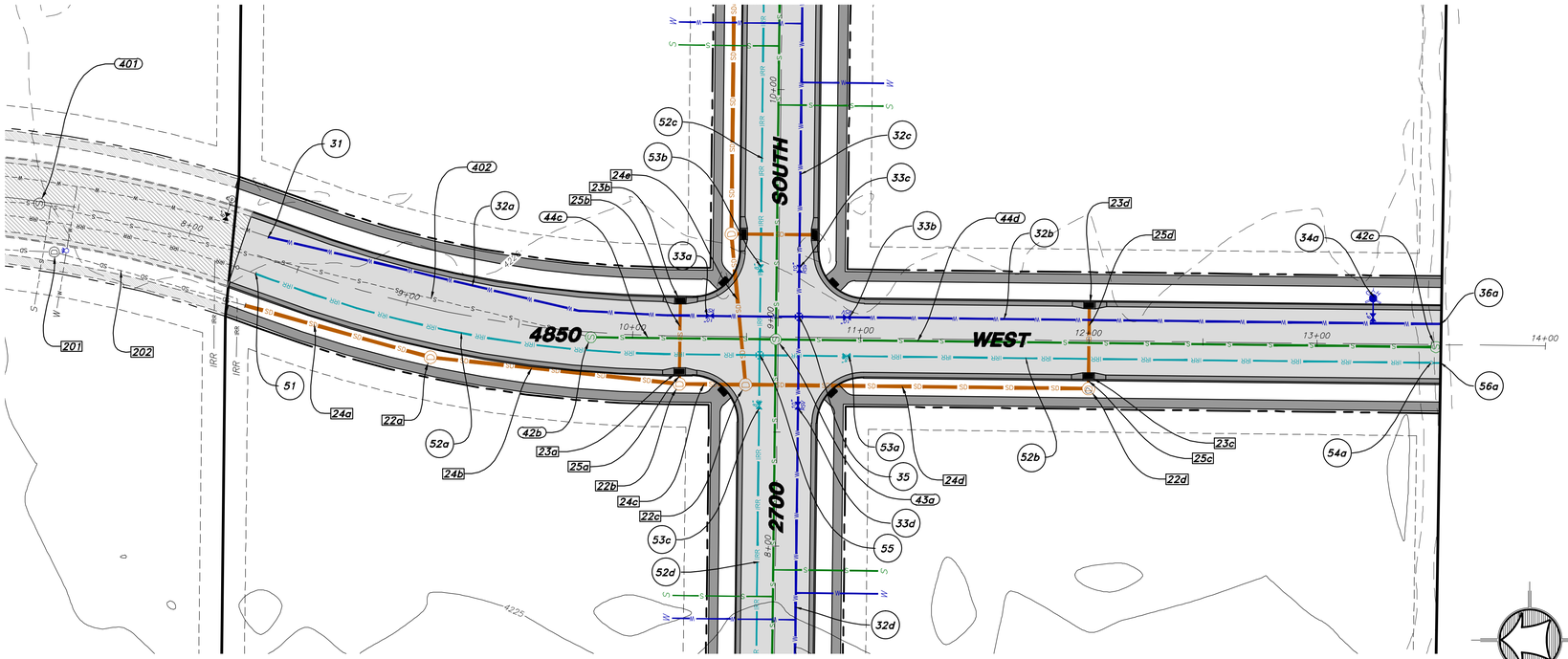
2700 SOUTH 4850 WEST

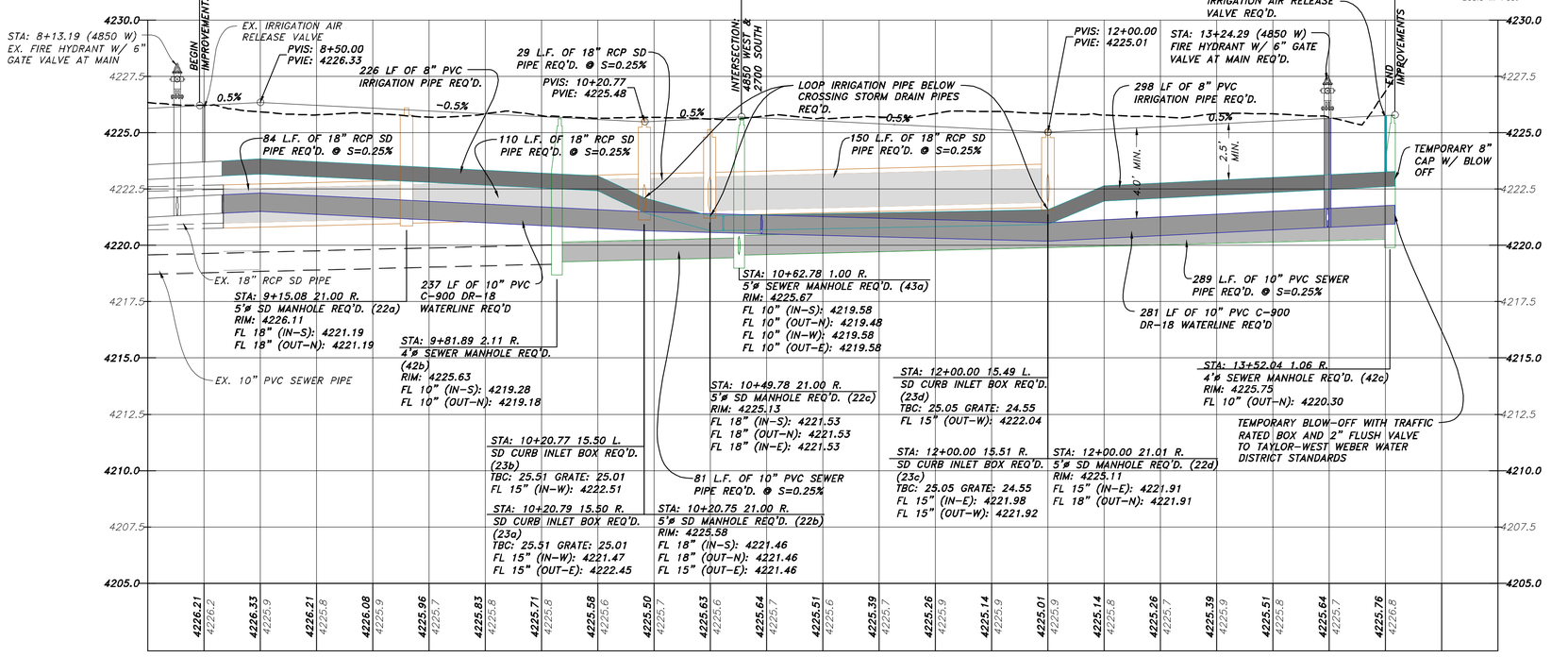
TAYLOR, UT 84401

Sheet **2** of **8** Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

4850 WEST PLAN AND PROFILE





SCALE: 1" = 30'

0 30 60
Scale in Feet

KEY NOTE SD STRUCTURES

NAME	STRUCTURE DETAILS
22a	5'ø SD MANHOLE REQ'D. RIM = 4226.11 18" INV (IN-S) = 4221.19 18" INV (OUT-N) = 4221.19
22b	5'ø SD MANHOLE REQ'D. RIM = 4225.58 18" INV (IN-S) = 4221.46 18" INV (OUT-N) = 4221.46 15" INV (OUT-E) = 4221.46
22c	5'ø SD MANHOLE REQ'D. RIM = 4225.13 18" INV (IN-S) = 4221.53 18" INV (IN-E) = 4221.53 18" INV (OUT-N) = 4221.53
22d	5'ø SD MANHOLE REQ'D. RIM = 4225.11 15" INV (IN-E) = 4221.91 18" INV (OUT-N) = 4221.91
22e	5'ø SD MANHOLE REQ'D. RIM = 4225.21 18" INV (IN-E) = 4221.70 18" INV (OUT-W) = 4221.70 15" INV (OUT-S) = 4221.70
23a	SD CURB INLET BOX REQ'D. RIM = 4225.13 15" INV (IN-W) = 4221.47 15" INV (OUT-E) = 4222.45

KEY NOTE SD STRUCTURES

NAME	STRUCTURE DETAILS
23b	SD CURB INLET BOX REQ'D. RIM = 4225.13 15" INV (IN-W) = 4222.51
23c	SD CURB INLET BOX REQ'D. RIM = 4224.67 15" INV (IN-E) = 4221.98 15" INV (OUT-W) = 4221.92
23d	SD CURB INLET BOX REQ'D. RIM = 4224.67 15" INV (OUT-W) = 4222.04
23e	SD CURB INLET BOX REQ'D. RIM = 4224.76 15" INV (IN-N) = 4221.71 15" INV (IN-S) = 4222.08
23f	SD CURB INLET BOX REQ'D. RIM = 4224.76 15" INV (OUT-N) = 4222.14
201	EX. 5'ø SD MANHOLE RIM = 4225.89 18" INV (OUT-S) = 4220.75

KEY NOTE SD PIPES

PIPE NAME	DETAILS
24a	18" RCP SD PIPE REQ'D. 84 L.F. @ 0.25% Slope
24b	18" RCP SD PIPE REQ'D. 110 L.F. @ 0.25% Slope
24c	18" RCP SD PIPE REQ'D. 29 L.F. @ 0.25% Slope
24d	18" RCP SD PIPE REQ'D. 150 L.F. @ 0.25% Slope
24e	18" RCP SD PIPE REQ'D. 66 L.F. @ 0.25% Slope
24f	18" RCP SD PIPE REQ'D. 454 L.F. @ 0.25% Slope
25a	15" RCP SD PIPE REQ'D. 6 L.F. @ 0.20% Slope

KEY NOTE SD PIPES

PIPE NAME	DETAILS
25b	15" RCP SD PIPE REQ'D. 31 L.F. @ 0.20% Slope
25c	15" RCP SD PIPE REQ'D. 5 L.F. @ 0.20% Slope
25d	15" RCP SD PIPE REQ'D. 31 L.F. @ 0.20% Slope
25e	15" RCP SD PIPE REQ'D. 5 L.F. @ 0.20% Slope
25f	15" RCP SD PIPE REQ'D. 31 L.F. @ 0.20% Slope
202	EX. 18" RCP SD PIPE 87 L.F. @ 0.26% Slope

KEY NOTE SS STRUCTURES

NAME	STRUCTURE DETAILS
42b	4'ø SEWER MANHOLE REQ'D. RIM = 4225.63 10" INV (IN-S) = 4219.28 10" INV (OUT-N) = 4219.18
42c	4'ø SEWER MANHOLE REQ'D. RIM = 4225.75 10" INV (OUT-N) = 4220.30
42d	4'ø SEWER MANHOLE REQ'D. RIM = 4224.03 10" INV (OUT-E) = 4220.21
42f	4'ø SEWER MANHOLE REQ'D. RIM = 4227.63 10" INV (IN-W) = 4220.56 10" INV (OUT-E) = 4220.66
43a	5'ø SEWER MANHOLE REQ'D. RIM = 4225.67 10" INV (IN-S) = 4219.58 10" INV (IN-W) = 4219.58 10" INV (OUT-N) = 4219.48 10" INV (OUT-E) = 4219.58

KEY NOTE SS STRUCTURES

NAME	STRUCTURE DETAILS
401	EX. 4'ø SEWER MANHOLE RIM = 4225.73 10" INV (IN-S) = 4218.56

KEY NOTE SS PIPES

PIPE NAME	DETAILS
44c	10" PVC SEWER PIPE REQ'D. 81 L.F. @ 0.25% SLOPE
44d	10" PVC SEWER PIPE REQ'D. 289 L.F. @ 0.25% SLOPE
44e	10" PVC SEWER PIPE REQ'D. 251 L.F. @ 0.25% SLOPE
44g	10" PVC SEWER PIPE REQ'D. 391 L.F. @ 0.25% SLOPE
44h	10" PVC SEWER PIPE REQ'D. 109 L.F. @ 0.25% SLOPE
402	EX. 10" PVC SEWER PIPE 249 L.F. @ 0.25% SLOPE

KEY NOTE CULINARY WATER

NAME	DETAILS
31	CONNECT TO EXISTING 10" WATERLINE
32a	237 LF OF 10" PVC C-900 DR-18 WATERLINE REQ'D.
32b	281 LF OF 10" PVC C-900 DR-18 WATERLINE REQ'D.
32c	490 LF OF 10" PVC C-900 DR-18 WATERLINE REQ'D.
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33	10" WATER VALVE REQ'D.
34	FIRE HYDRANT W/ 6" GATE VALVE AT MAIN REQ'D.
35	10" PVC TEE REQ'D.
36	TEMPORARY BLOW-OFF WITH TRAFFIC RATED BOX AND 2" FLUSH VALVE TO TAYLOR-WEST WEBER WATER DISTRICT STANDARDS

KEY NOTE SECONDARY WATER

NAME	DETAILS
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52a	226 LF OF 8" PVC IRRIGATION PIPE REQ'D.
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4850 WEST PLAN & PROFILE

SUN CREST MEADOWS SUBDIVISION PHASE 2

2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet 3 of 8 Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

2700 SOUTH PLAN AND PROFILE

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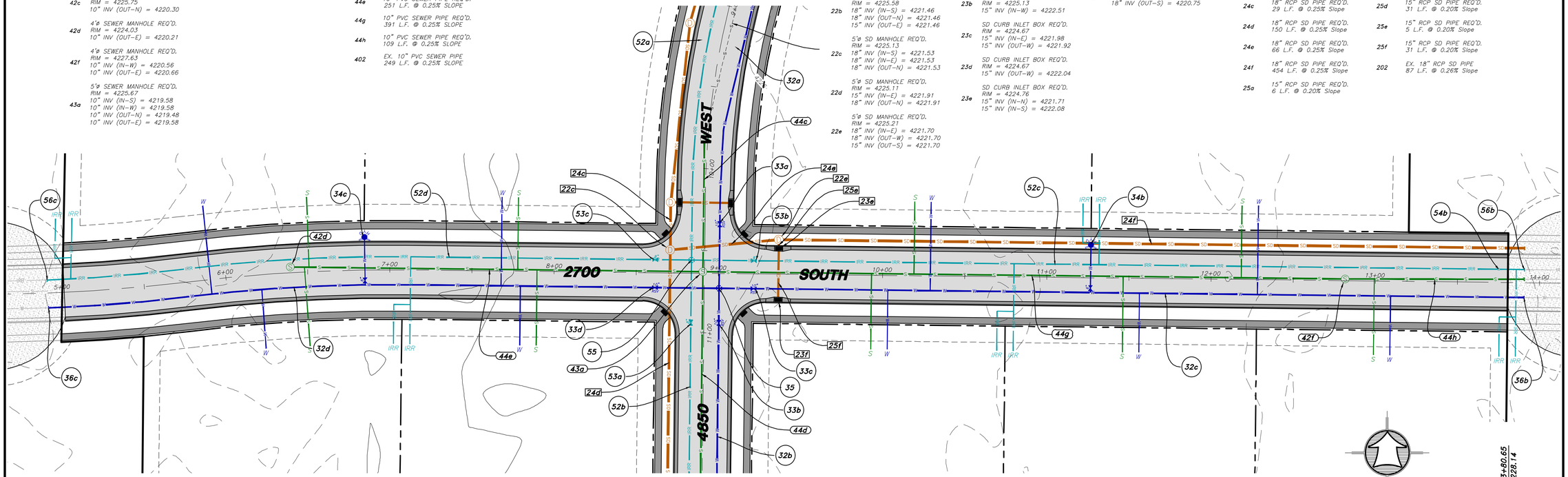

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KEY NOTE SECONDARY WATER

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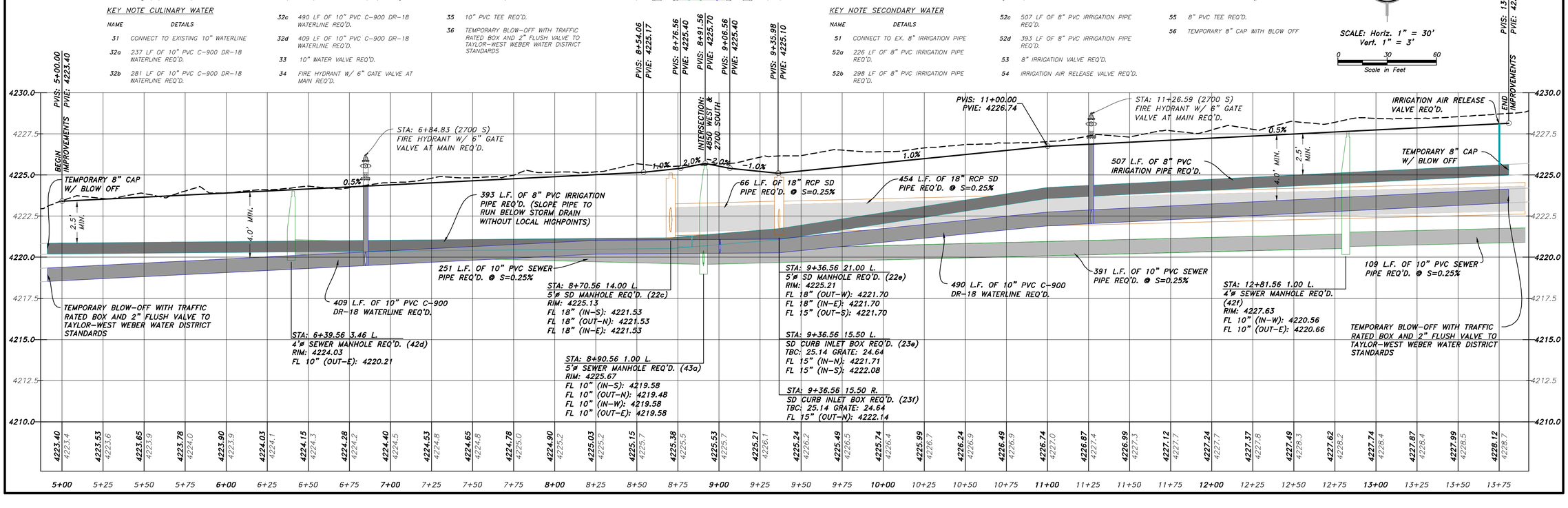
SCALE: Horiz. 1" = 30'
Vert. 1" = 3'
0 30 60
Scale in Feet



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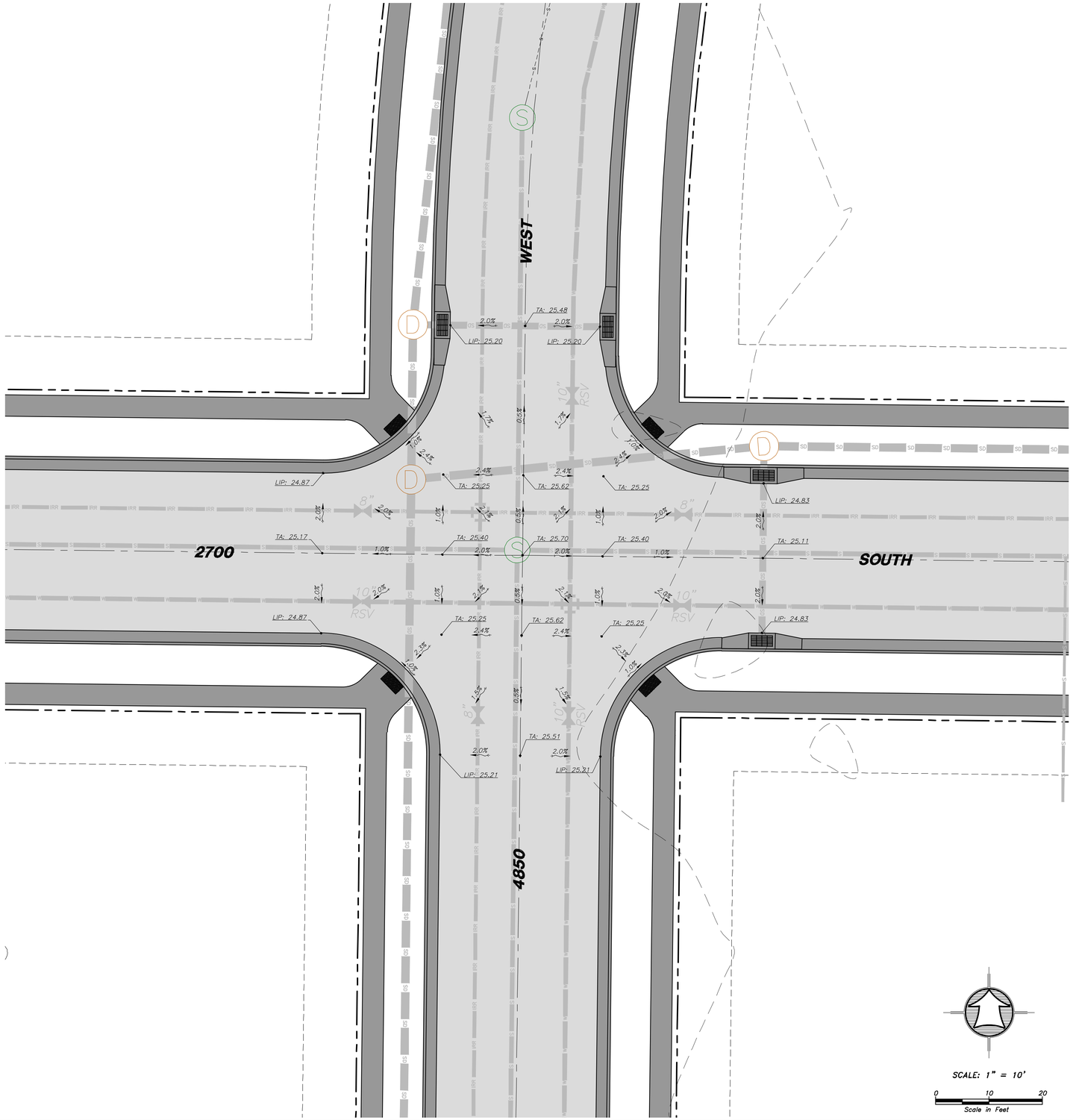
2700 SOUTH PLAN & PROFILE
2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet 4 of 8 Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

INTERSECTION GRADING PLAN



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Scale: 1" = 10'
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INTERSECTION GRADING PLAN

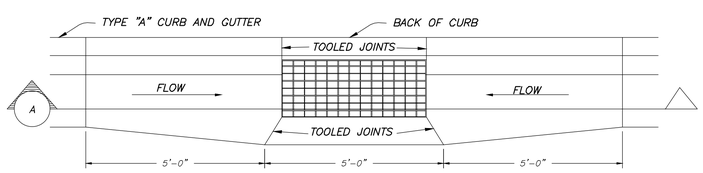
SUN CREST MEADOWS SUBDIVISION PHASE 2

2550 NORTH 4900 WEST
TAYLOR, UT 84401

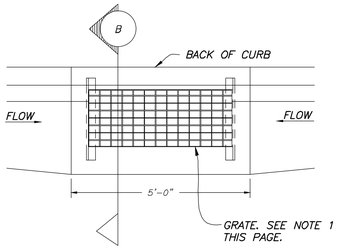
Sheet **5** of **8** Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

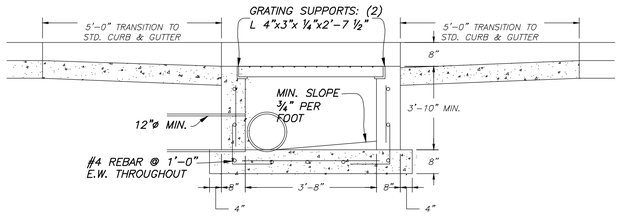
DETAIL SHEET



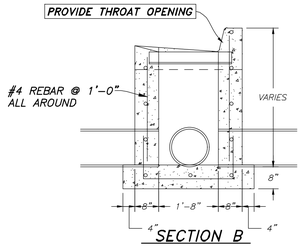
PLAN



GRATE DETAIL PLAN

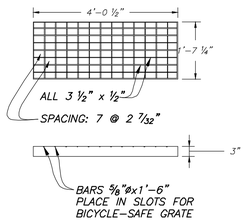


SECTION A



SECTION B

CONTRACTOR MAY SUBSTITUTE AMCOR PRECAST CB110 CATCH BASIN OR APPROVED EQUAL



GRATE DETAIL

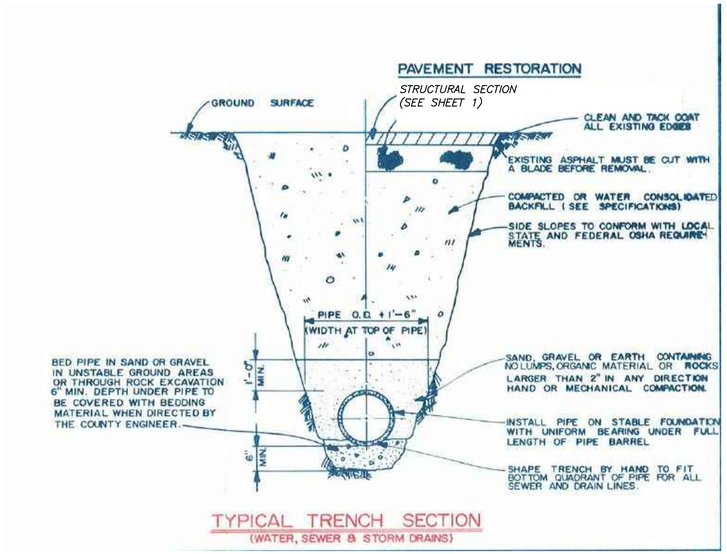
NOTES:

1. ALL GRATES SHALL BE U.D.O.T. STD. V-988 OR D&L, N-9221, AS SHOWN IN DETAIL AND GALVANIZED IN ACCORDANCE WITH U.D.O.T.

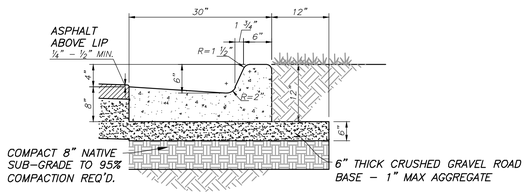
2. BICYCLE SAFE GRATE REQ'D

TYPICAL CURB INLET BOX

NOT TO SCALE



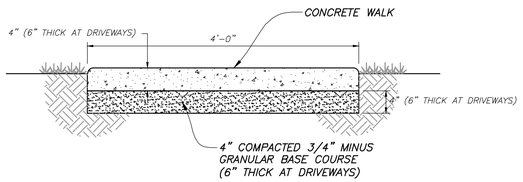
WEBER COUNTY PUBLIC WORKS STANDARDS



CONCRETE TO BE 4000 PSI 28 DAY STRENGTH
4" MAX. SLUMP; AIR 6% ± 1½%

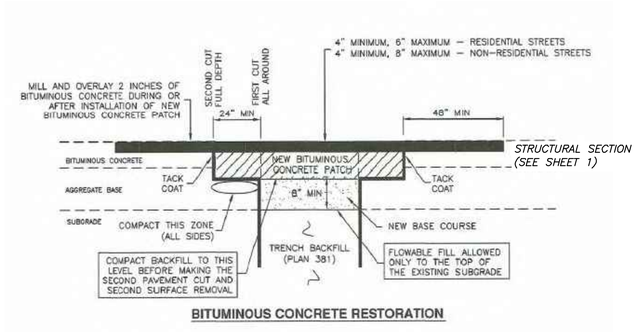
CATCH CURB & GUTTER SECTION

NOT TO SCALE



SIDEWALK SECTION 4/5

NOT TO SCALE



APWA 2017 STANDARDS

HANSEN & ASSOCIATES, INC.
Consulting Engineers and Land Surveyors
538 North Main Street, Brigham, Utah 84302
Brigham City us at www.hales.net Logan
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No.	Date	By	Revision

Drawn By: MTH Date: 09/18/18
Designed By:
Checked By:
Approved By:
Scale:
Drawing File: 16-105x16(09-18-18)ph2
JOB NUMBER: 16-105

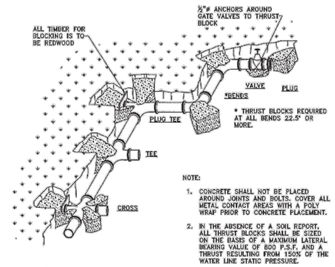
DETAIL SHEET FOR
SUN CREST MEADOWS SUBDIVISION PHASE 2
2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet **6** of **8** Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

DETAIL SHEET

TABLE OF CONTENTS



NOTE:

1. CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH A POLY WRAP PRIOR TO CONCRETE PLACEMENT.
2. IN THE ABSENCE OF A SOIL REPORT, ALL THRUST BLOCKS SHALL BE SIZED ON THE BASES OF A MAXIMUM LATERAL BEARING VALUE OF 800 P.S.F. AND A THRUST RESULTING FROM 150% OF THE WATER LINE STATIC PRESSURE.

TABLE OF BEARING AREAS IN SQ. FT FOR CONCRETE THRUST BLOCKING

SIZE	BENDS 90°	BENDS 45°	BENDS 22 ½°	BENDS 11 ¼°	TEES*	GATE VALVES	DEAD ENDS	CROSS(W/ BRANCH FLOWS)	CROSS(W/ 3 BRANCH FLOWS)
3	1.0	0.0	0.3	0	0.7	0.5	0.7	0.7	0.7
4	1.8	1.0	0.5	0	1.3	0.5	1.3	1.3	1.3
6	4.0	2.2	1.1	0	2.8	0.7	2.8	2.8	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0	5.0	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8	7.8	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3	11.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4	15.4	15.4
15	25.0	13.5	7.0	3.5	17.6		17.6	17.6	17.6
16	28.4	15.3	8.0	4.0	20.0		20.0	20.0	20.0
18	36.0	19.4	10.0	5.0	25.4		25.4	25.4	25.4
20	44.2	24.0	12.2	6.1	31.4		31.4	31.4	31.4
21	49.0	26.5	13.5	6.8	34.6		34.6	34.6	34.6
22	54.0	29.0	14.8	7.4	38.0		38.0	38.0	38.0
24	64.0	34.5	17.7	8.8	45.0		45.0	45.0	45.0
30	100.6	54.0	27.6	13.8	71.0		71.0	71.0	71.0
36	144.6	78.0	40.0	20.0	102.0		102.0	102.0	102.0

SPECIAL DESIGN

*SIZE IS BRANCH SIZE.

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1000 LBS./PER SQ. FT. SOIL BEARING CAPACITY.

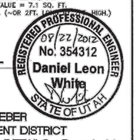
ALL VALVES, TEES, CROSSES AND BENDS GREATER THAN 22.5° SHALL ALSO BE FITTED WITH MECHANICAL RESTRAINTS, SUCH AS MEGA LUGS OR APPROVED EQUAL.

AREAS GIVEN IN TABLE ARE BASED UPON AN INTERNAL STATIC PRESSURE OF 100 P.S.I AND A SOIL BEARING CAPACITY OF 1000 LBS PER SQ. FT. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F".

F= ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS/SQ. IN. / ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.

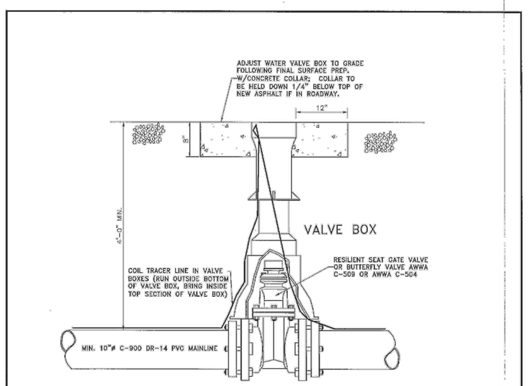
EXAMPLE: TO FIND BEARING AREA FOR 8"-90° BEND WITH A STATIC INTERNAL PRESSURE OF 1500 P.S.I AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.
F=1.5 / 3=0.5 TABULATED VALUE = 7.1 SQ. FT.
0.5 X 7.1=3.56 ~ 4 SQ. FT. (~OR 2FT. LONG X 2FT. WIDE)

1 THRUST BLOCKING DETAIL
APPLIES TO ALL PRESSURE PIPE
(NOT TO SCALE)



Gardner Engineering > CIVIL ENGINEERING > LAND SURVEYING > WATER RESOURCES

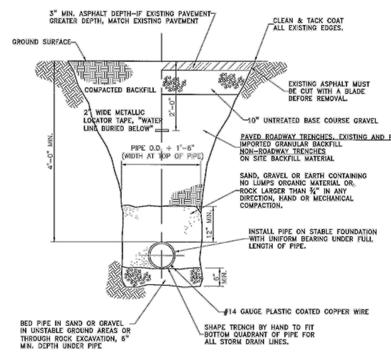
TAYLOR - WEST WEBER
WATER IMPROVEMENT DISTRICT
STANDARD WATER DETAILS - Page 1 of 9



2 TYPICAL VALVE DETAIL
(NOT TO SCALE)

Gardner Engineering > CIVIL ENGINEERING > LAND SURVEYING > WATER RESOURCES

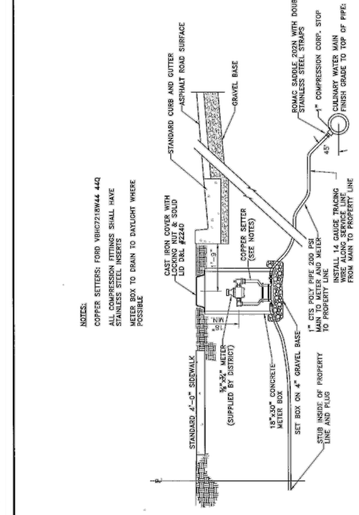
TAYLOR - WEST WEBER
WATER IMPROVEMENT DISTRICT
STANDARD WATER DETAILS - Page 2 of 9



3 TYPICAL TRENCH SECTION
(NOT TO SCALE)

Gardner Engineering > CIVIL ENGINEERING > LAND SURVEYING > WATER RESOURCES

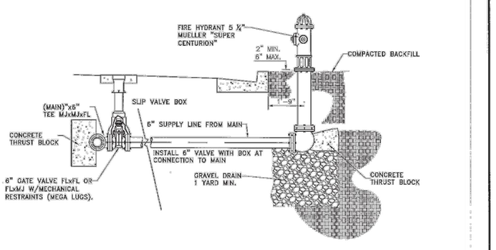
TAYLOR - WEST WEBER
WATER IMPROVEMENT DISTRICT
STANDARD WATER DETAILS - Page 3 of 9



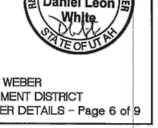
5 TYPICAL SERVICE CONNECTION
(NOT TO SCALE)

Gardner Engineering > CIVIL ENGINEERING > LAND SURVEYING > WATER RESOURCES

TAYLOR - WEST WEBER
WATER IMPROVEMENT DISTRICT
STANDARD WATER DETAILS - Page 5 of 9

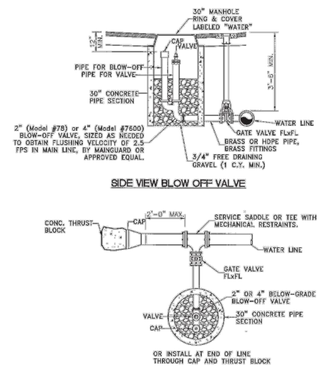


6 FIRE HYDRANT DETAIL
(NOT TO SCALE)

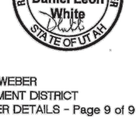


Gardner Engineering > CIVIL ENGINEERING > LAND SURVEYING > WATER RESOURCES

TAYLOR - WEST WEBER
WATER IMPROVEMENT DISTRICT
STANDARD WATER DETAILS - Page 6 of 9



9 TYPICAL BLOW OFF VALVE DETAIL
(NOT TO SCALE)



Gardner Engineering > CIVIL ENGINEERING > LAND SURVEYING > WATER RESOURCES

TAYLOR - WEST WEBER
WATER IMPROVEMENT DISTRICT
STANDARD WATER DETAILS - Page 9 of 9

Taylor–West Weber Water Improvement District Standard Specifications

These written specifications in conjunction with the attached details constitute the District's construction standards. In the event of conflict, the District Manager will determine the appropriate standard.

1. *The Taylor–West Weber Water Improvement District manager shall **approve any variations** from these standards.*
2. *All materials that are expected to have with contact drinking water, including pipes, gaskets, lubricants and O–Rings, shall be ANSI–certified as meeting the requirements of NSF Standard 61. To permit field–verification of this certification, all such components shall be stamped with the NSF logo.*
3. *All water mains shall be new PVC with a minimum cover of 4 feet.*
   a. *Main pipelines shall be a minimum of 10" diameter.*
   b. *Pipelines 12" and smaller diameter shall be AWWA C–900 DR14.*
   c. *Pipelines 14" and larger diameter shall be AWWA C–905 DR18.*
   d. *Under no circumstances shall the pipe or accessories be dropped into the trench.*
   e. *The open ends of all pipeline under construction shall be covered and effectively sealed at the end of the day's work.*
   f. *All waterlines shall be pressure tested at 200 PSI for at least 2 hours, according to the latest edition of AWWA Standard C600.*
   g. *All water lines shall be disinfected according to the latest edition of AWWA Standard C651 and have 3 negative bacteriological test results, the failure of any one such test will result in starting the flushing and test sequence over again:*
      i. *The first sample will be pulled and tested immediately after initial flushing;*
      ii. *The second sample will be pulled from the same section of pipe and tested no less than 24 hours after the first sample is pulled;*
      iii. *If both of those tests come back negative, the tie–to–existing may take place, and a third and final sample pulled and tested; if the third sample returns a negative result, the section of pipeline will be accepted.*
   h. *Both a 2" wide metallic warning tape (located 2'+/– below finished grade) and a #14 plastic coated solid copper tracer wire shall be installed with main pipelines.*
      i. *The tracer wire shall be brought up the outside of each mainline valve box and bolted to the inside of the valve box lid section where District personnel will be able to easily set a tracing charge on the wire.*
4. *All valves, tees, crosses and elbows greater than 11.25 deg. shall be both mechanically restrained (e.g., Mega Lug or District approved equal) and have a thrust block poured against it.*
   a. *A 30" diameter by 8" thick concrete collar shall be poured around each valve box, with the valve box centered in the collar.*
   b. *Main line valves shall be gate valves if 10" or smaller diameter.*
   c. *Main line valves, where possible, shall be butterfly valves if 12" or larger diameter.*
   d. *A valve shall be placed on all three sides of a newly constructed tee.*
      i. *An exception may be made when doing so would place new valves within 200' of each other, in which case, only 1 valve need be installed between the new fittings.*
   e. *A valve shall be placed on all four sides of a newly constructed cross.*
5. *All slough, canal and UDOT crossings shall be cased in steel casing with an isolation valve within one pipe length of each end of the casing.*
   a. *Each cased crossing shall be held in the casing by prefabricated casing spacers and end seals, installed per manufacturer's recommendations (PSI Ranger II, or District approved equal). DO NOT SAND FILL.*
   b. *Minimum carrier, casing and wall thickness dimensions are as follows:*
      i. *10" pipe 16" casing 0.375" wall thickness*
      ii. *12" pipe 18" casing 0.375" wall thickness*
      iii. *14" pipe 20" casing 0.375" wall thickness*
      iv. *16" pipe 24" casing 0.5" wall thickness*
   c. *If a loop requiring vertical fittings is required, a combination air vacuum release valve may be required on one or both sides of the loop, with venting above–grade outside of the traveled roadway.*
      i. *A professionally prepared plan and profile sheet shall be provided to the District for review of all looped crossings for the purpose of determining air valve requirements.*
6. *Fire hydrants shall be Mueller Centurion or District–approved equal.*
   a. *The hydrant valve shall be placed at the main line.*
7. *When a sewer line is parallel to a water line, a minimum of 10 horizontal feet shall be designed between their EDGES.*
   a. *When a sewer line and water line cross, the sewer shall be at least 18" below the water line and there shall be no joints within 10 feet of the crossing.*
8. *Secondary water lines shall be installed in each new subdivision.*
   a. *Secondary and culinary water lines shall be installed in distinctly separate trenches.*
9. *Services:*
   a. *All service saddles shall be nylon coated with double stainless steel straps (e.g. Romac 202N or District–approved equal).*
   b. *All service laterals shall run in a straight line from the meter to the main, and shall be square with the main line.*
   c. *The minimum cover over any water main or service line shall be 4' below finished grade.*
   d. *All service laterals shall be HDPE.*
      i. *Typical residential service laterals shall be 200 PSI 1" CTS.*
   e. *Meter boxes will be 18" dia. X 30" deep concrete.*
   f. *Meter box lids shall be solid, with the word "WATER" cast in them.*
10. *Connection Hardware: Except where otherwise shown or specified, all bolts and cap screws shall be carbon steel conforming to the requirements of ASTM A307 Grade A. The corresponding nuts shall conform to ASTM A563 Grade A. All bolts and nuts shall be coated with Tripac 2000 Blue Coating System.*
11. *A note should be included on improvement plans stating that all culinary water line construction shall meet the standards of the Taylor–West Weber Water Improvement District.*
    a. *A note should be included on the plans stating that the Taylor–West Weber Water Improvement District shall be notified at least 24 hours prior to any preconstruction meetings and/or the commencement of any construction. The District's phone number is (801) 731–1668.*

No.	Date	By	Revision

HANSEN & ASSOCIATES, INC.
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Drawn By: MTH Date: 09/18/18
Designed By:
Checked By:
Approved By:
Scale:
Drawing File: 16-105\16(09-18-18)bh2
JOB NUMBER: 16-105

CULINARY WATER STANDARD DETAILS AND SPECIFICATIONS FOR

SUN CREST MEADOWS SUBDIVISION PHASE 2

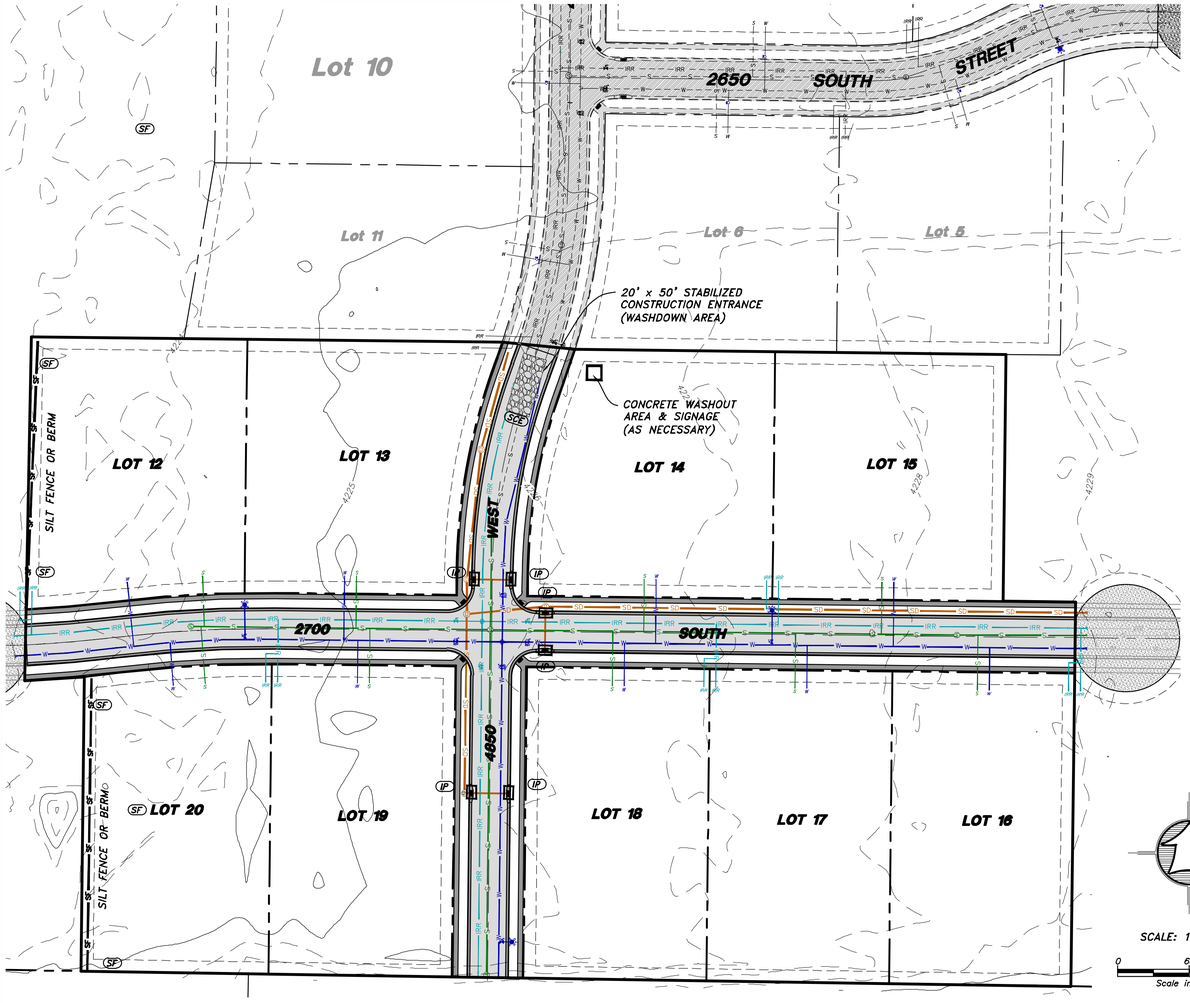
2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet 7 of 8 Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 2

SWPPP

INSTALL ADDITIONAL FENCING AS NECESSARY TO DISTINGUISH WHERE THE ONLY ACCESS TO THE SUBDIVISION WILL BE AND DISCOURAGE ENTERING AND EXITING AT MULTIPLE POINTS.



SCALE: 1" = 60'

0 60 120

Scale in Feet

LOCATION:

LOCATION: TAYLOR, WEBER COUNTY, UTAH
SECTION 32, TOWNSHIP 6 NORTH, RANGE 2 WEST, SLB&M
LATITUDE: 41°13'10" N LONGITUDE: 112°05'48" W
APPROXIMATE ELEVATION: 4225'

PROJECT DATA:

TAX ID #: 15-086-0018 & 15-086-0009
PARCEL ACREAGE: ±32.28 ACRES

SUN CREST MEADOWS PHASE 1
2550 SOUTH 4850 WEST
TAYLOR, UT 84401

DISTURBED AREAS:

PROJECT AREA DISTURBANCE:	441,370.93 SQ. FT. 10.13 ACRES
IMPERVIOUS AREA:	54,005.68 SQ. FT. 1.23 ACRES
PERMEABLE AREA:	387,365.25 SQ. FT. 8.90 ACRES
WEIGHTED COEFFICIENT:	C = 0.41

OVERVIEW:

THE PROJECT CONSISTS OF STREET AND UTILITY INSTALLATION FOR AN ELEVEN LOT SUBDIVISION. GRADING WORK IS ALSO REQUIRED IN THE CONSTRUCTION OF THE ROAD, TRAIL, AND CURB & GUTTER. DRAINAGE FROM ON-SITE ACTIVITY IS TO BE INTERCEPTED BY THE SILT FENCE/BERM AT THE WEST BOUNDARY OF THE PROJECT. CONCRETE WASHOUT AREA IS LOCATED NEAR THE ENTRANCE/EXIT.

MAINTENANCE/RECORD-KEEPING:

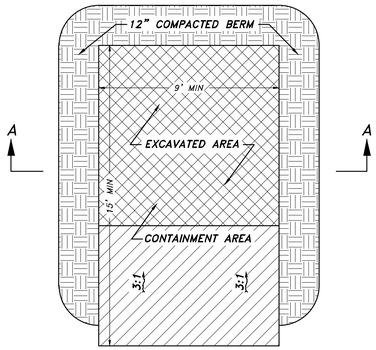
STRICT RECORD KEEPING IS IMPERATIVE. THE PROJECT WILL BE STATE-PERMITED BUT PARTICULARLY UNDER THE AUSPICES OF WEBER COUNTY. KEEP INSPECTION REPORTS FORMS/FORMAT AS MANDATED BY WEBER COUNTY. A THOROUGH INSPECTION OF THE SWPPP MUST BE CONDUCTED AT LEAST EVERY 14 DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT THAT CAUSES SURFACE EROSION. MAINTENANCE AND/OR MODIFICATIONS TO EROSION MEASURES MUST BE COMPLETED IN A TIMELY MANNER, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE INSPECTION. THE ENFORCEMENT AGENCY IS WEBER COUNTY, WHO ADMINISTERS AND ENFORCES STORMWATER POLLUTION PREVENTION PLANS LOCALLY. STORMWATER MANAGEMENT ASPECTS AND PROCEDURES MAY BE MODIFIED BY PERMITTEE (AND/OR OFFICIAL REPRESENTATIVE) UPON OBTAINING WEBER COUNTY APPROVAL.

SWPPP PHASING - ORDER OF WORK:

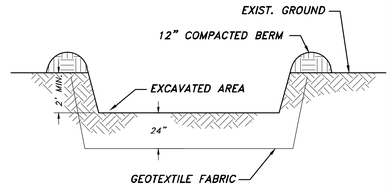
PHASE 1: CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA AND SIGNAGE, SILT FENCES & BERMS.

PHASE 2: MAINTAIN STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA, SILT FENCES & BERMS, AND WATTLES DURING CONSTRUCTION AND SITE IMPROVEMENTS. INSTALL INLET PROTECTION UPON CONSTRUCTION OF CURB INLET BOXES.

PHASE 3: UPON ASPHALTING, REMOVE CONSTRUCTION ENTRANCE, WATTLES, INLET PROTECTION, AND TEMPORARY SILT FENCES & BERMS.



PLAN VIEW



CROSS SECTION A-A

CONCRETE WASHOUT AREA

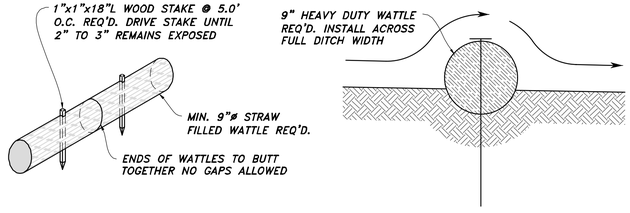
NOT TO SCALE

CONCRETE WASHOUT AREA NOTES:

INSTALLATION: PROPER SIGNAGE SUCH AS "CONCRETE WASHOUT" SHALL BE PLACED NEAR CONCRETE WASHOUT FACILITIES. A CONTINUOUS ONE-FOOT TALL COMPACTED EARTH BERM SHALL BE PLACED ON THREE SIDES OF THE EXCAVATED PIT. THE BOTTOM OF THE EXCAVATED PIT MUST BE PROVEN TO BE AT LEAST 5 VERTICAL FEET ABOVE GROUNDWATER OR THE PIT MUST BE LINED WITH A CLAY OR SYNTHETIC LINER DESIGNED TO CONTROL SEEPAGE.

MAINTENANCE: THE FACILITIES SHALL BE MAINTAINED IN GOOD CONDITION TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY OPERATIONS AT THE PROJECT SITE. HARDENED CONCRETE SHALL BE REMOVED AND PROPERLY DISPOSED OF ONCE THE PIT IS 75 PERCENT FULL AND AS NEEDED. WASTE SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH ANY APPLICABLE REGULATIONS.

NOTE: ADDING SOLVENTS, FLOCCULENTS, OR ACID TO THE WASHWATER IS PROHIBITED.



TYPICAL WATTLE/FILTER SOCK

NOT TO SCALE

LABELS

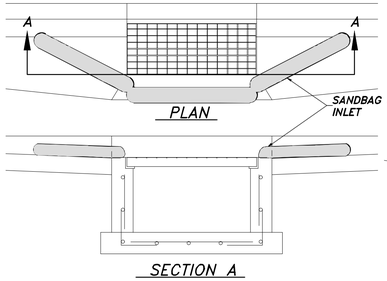
(SF) - SILT FENCE OR BERM
(SCE) - STABILIZATION CONSTRUCTION ENTRANCE
(IP) - INLET PROTECTION

QUANTITIES

SILT FENCE/BERM - 760 LF
STABILIZED CONSTRUCTION ENTRANCE - 1
INLET PROTECTION - 9

L E G E N D

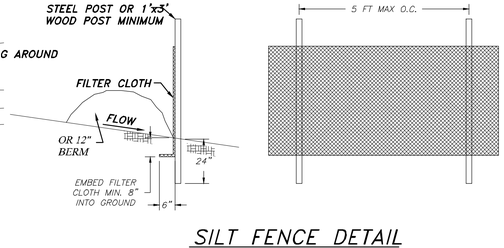
PROPERTY BOUNDARY LINE
SF SF SILT FENCE OR BERM REQ'D
TRACKING PAD
CONCRETE WASHOUT AREA & SIGNAGE



SECTION A

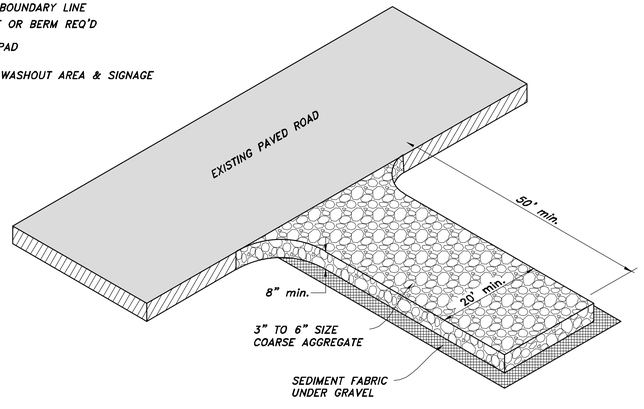
CURB INLET PROTECTION DETAIL

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE NOTES:

INSTALLATION/APPLICATION CRITERIA:
1. CLEAR AND GRUB AREA AND GRADE TO PROVIDE MAXIMUM SLOPE OF 2%.

2. COMPACT SUBGRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS)

3. PLACE COARSE AGGREGATE, 3" TO 6" IN SIZE, TO A MINIMUM DEPTH OF 8".

LIMITATIONS:
1. REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONES.

2. SHOULD BE USED IN CONJUNCTION WITH STREET SWEEPING ON ADJACENT PUBLIC RIGHT-OF-WAY.

MAINTENANCE:
1. INSPECT DAILY FOR LOSS OF GRAVEL OR SEDIMENT BUILDUP.

2. INSPECT ADJACENT ROADWAY FOR SEDIMENT DEPOSIT AND CLEAN BY SWEEPING OR SHOVELING.

3. REPAIR ENTRANCE AND REPLACE GRAVEL AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.

4. EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND PREVENT EROSION AT DRIVEWAYS.

No.	Date	By	Revision

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HAI

Drawn By: MTH Date: 09/18/18
Designed By:
Checked By:
Approved By:
Scale: 1" = 50'
Drawing File: 15-105r1809-18-18)ph2
JOB NUMBER: 15-105

SWPPP FOR
SUN CREST MEADOWS SUBDIVISION PHASE 2
2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet 8 of 8 Sheets