

SUN CREST MEADOWS SUBDIVISION PHASE 1

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 HYDRANTS ARE LOCATED NEARBY ON THE NORTH SIDE OF 2550 SOUTH STREET, ONE NEAR THE NORTHWEST CORNER OF THE SITE AND ONE NEAR THE EAST PROPERTY CORNER ALONG 2550 SOUTH - 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 IN 2550 SOUTH AS SHOWN. TRENCH RESTORATION IN 2550 SOUTH REQUIRED AFTER NEW WATERLINE IS INSTALLED FOLLOWING THE COUNTY T-CUT PATCH REQUIREMENTS. PLANS CAN BE FOUND IN APWA 2017. 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-14. 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 ON THE NORTH SIDE OF 2550 SOUTH STREET, ONE NEAR THE NORTHWEST CORNER OF THE SITE AND ONE NEAR THE EAST PROPERTY CORNER ALONG 2550 SOUTH. 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:

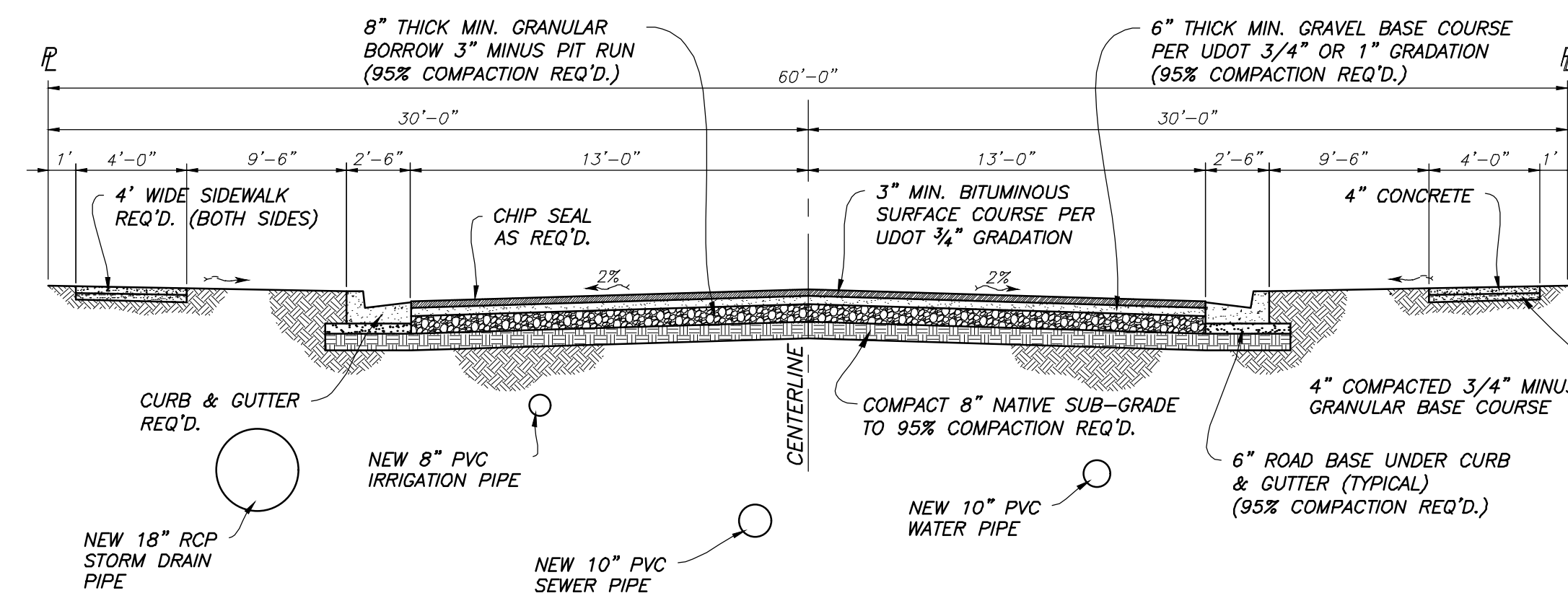
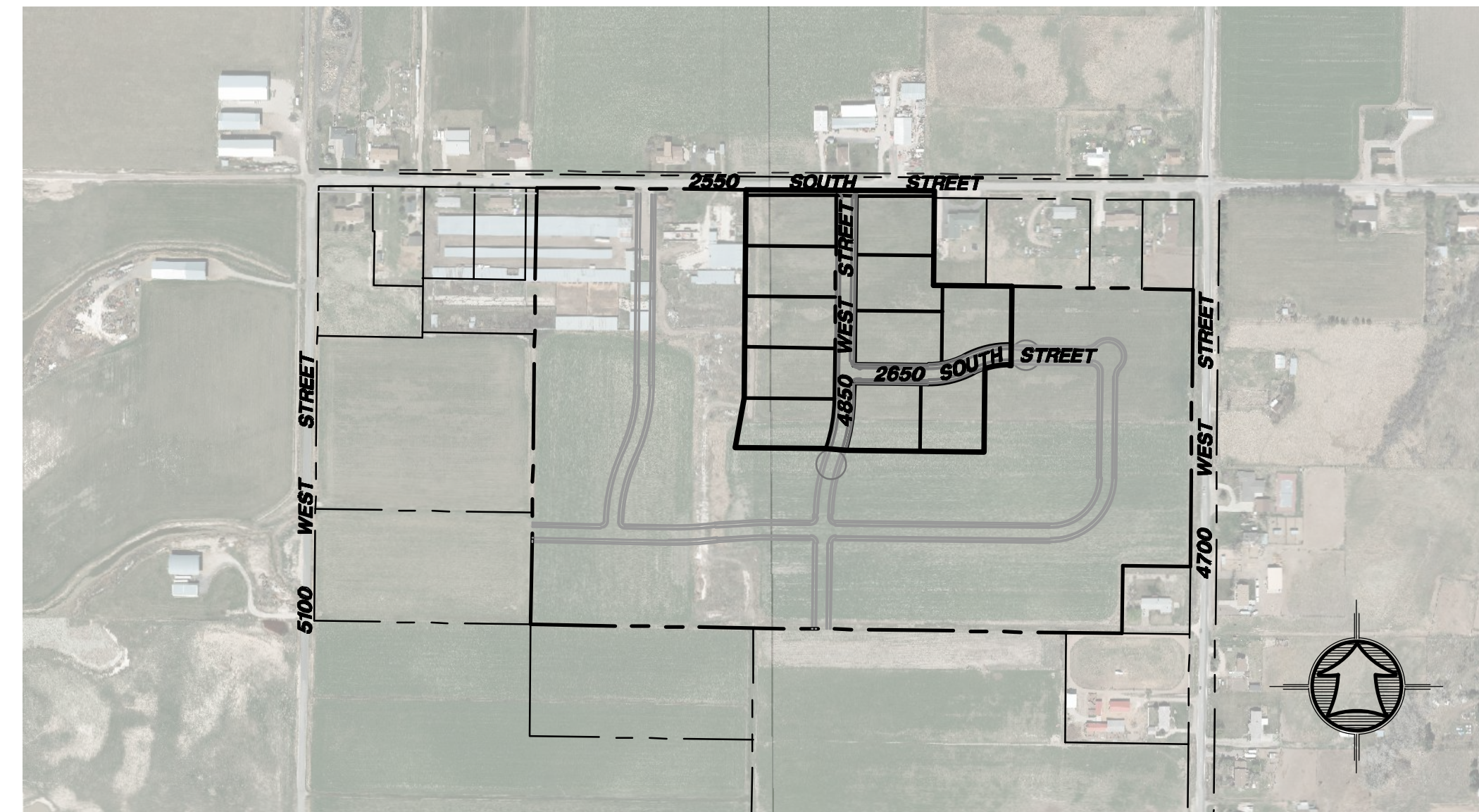
ALL SECONDARY WATER LINE CONSTRUCTION TO MEET HOOPER IRRIGATION DISTRICT STANDARDS. NEW 12" PVC IRRIGATION PIPE TO BE INSTALLED ALONG 2550 SOUTH AND CONNECT TO EXISTING IRRIGATION LINE IN 4700 WEST STREET. SECONDARY WATER PIPING IN SUBDIVISION TO BE 8" PVC. ALL SERVICE LATERALS TO BE 1" POLY.

SEWER:

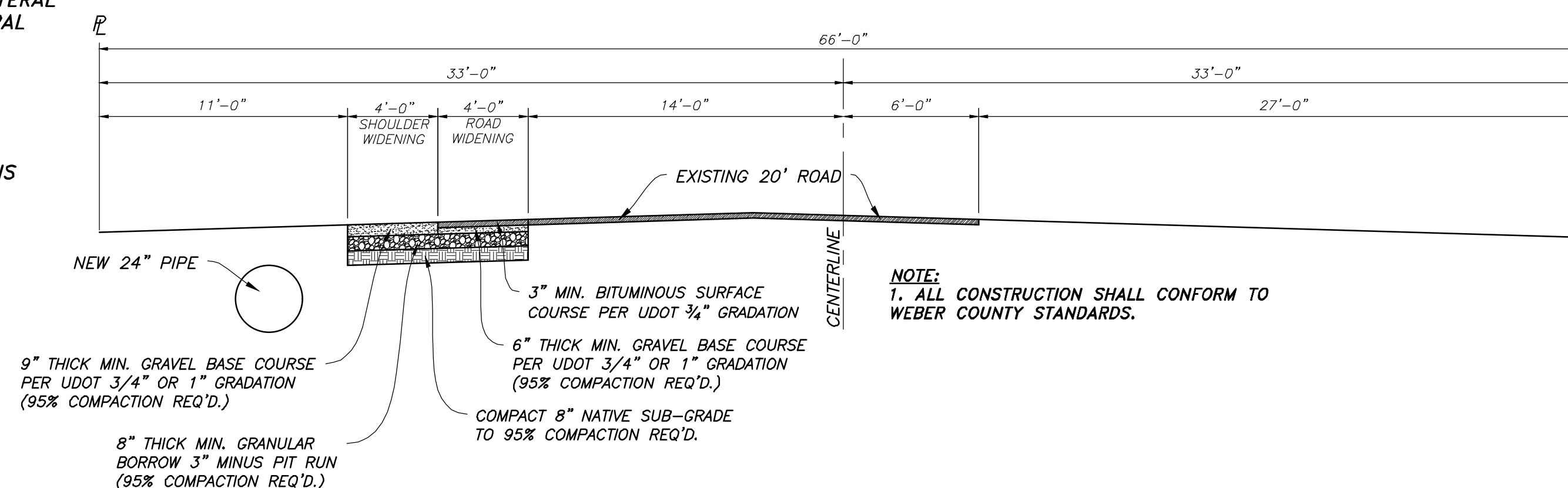
SEWER IS UNDER THE AUSPICES OF WEBER COUNTY/CENTRAL WEBER SEWER IMPROVEMENT DISTRICT. SEWER TIE-IN IS SHOWN AS CONNECTING TO EXISTING SEWER MANHOLE AT INTERSECTION OF 5100 WEST AND 2550 SOUTH. THE SEWER UTILITY TRENCH AND LATERAL CONNECTION MUST MEET WEBER COUNTY STANDARDS. PROVIDE CLEANOUTS FOR LATERAL 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 DRAINAGE DITCH SYSTEM TO EAST.



TYPICAL ROAD SECTION
LOOKING NORTH/WEST
NOT TO SCALE



2550 SOUTH ROAD SECTION
(LOOKING WEST)
NOT TO SCALE

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.

UDOT:

TRENCHING & REPAIR ON STATE HWY 137 (4700 WEST STREET) FOR IRRIGATION TIE-IN TO BE TO UDOT STANDARDS.

ACCESS/CONSTRUCTION SITE:

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

INSPECTION CONTACTS:

UDOT: JAY GENEREUX - (801)-678-6283
 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:

- 1 GENERAL PROJECT NOTES
- 2 MASTER UTILITY PLAN
- 3 OFF-SITE SEWER PLAN & PROFILE
- 4 OFF-SITE STORM DRAIN PLAN & PROFILE
- 5 4850 WEST PLAN & PROFILE
- 6 2650 SOUTH PLAN & PROFILE
- 7 INTERSECTION GRADING PLAN
- 8 NORTH IRRIGATION DITCH PLAN & PROFILE
- 9 2550 SOUTH WIDENING GRADING
- 10 DETAIL SHEET
- 11 TAYLOR-WEST WEBER WATER STANDARD DETAILS
- 12 SWPPP

No.	Date	By	Revision

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



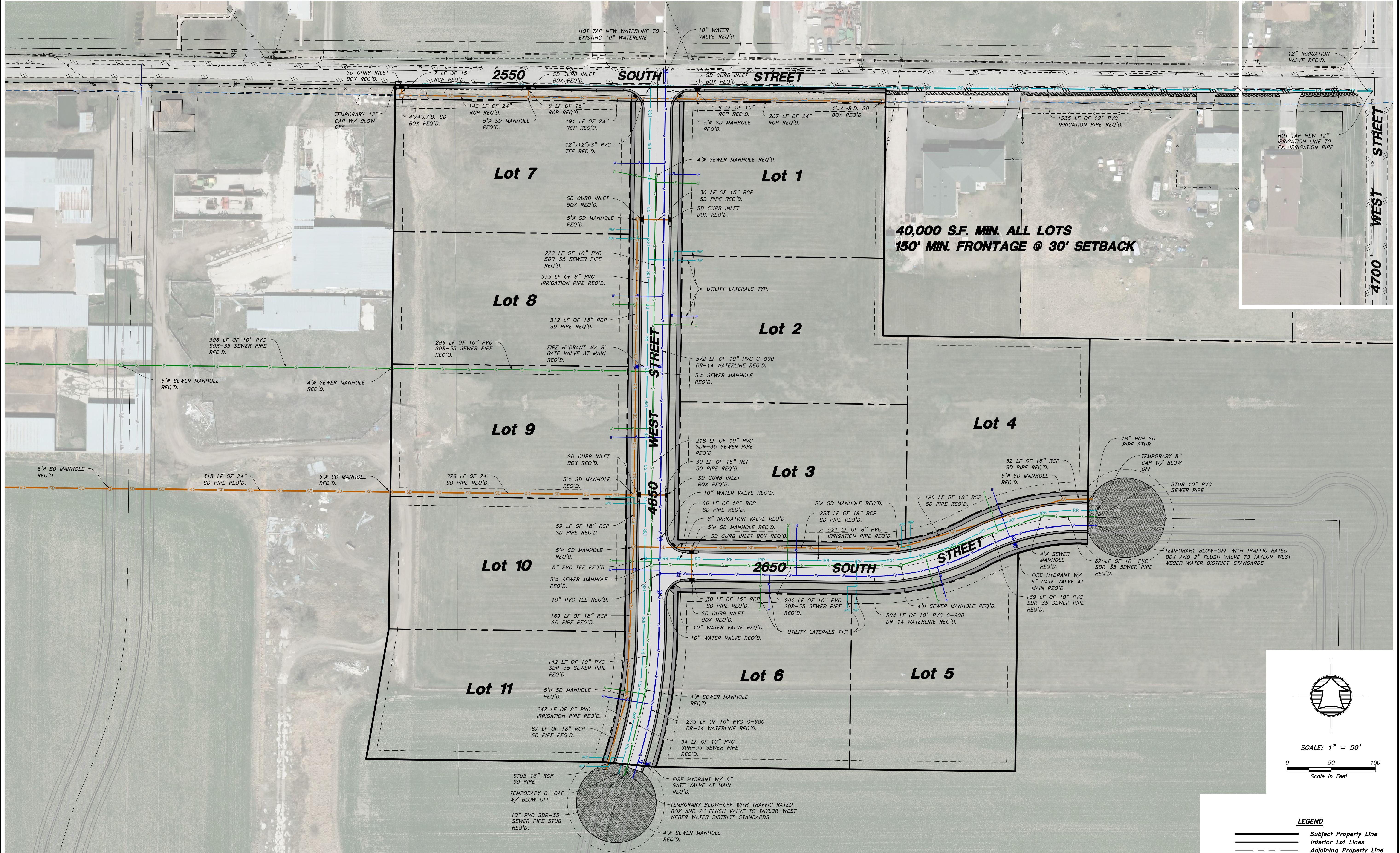
Drawn By: MTH Date: 07/17/18
 Designed By: _____
 Checked By: _____
 Approved By: _____
 Scale: _____
 Drawing File: 16-10516(07-02-18)
 JOB NUMBER: 16-105

PROJECT NOTES FOR
**SUN CREST MEADOWS
 SUBDIVISION PHASE 1**
 2550 NORTH 4900 WEST
 TAYLOR, UT 84401

Sheet
1
 of
12
 Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 1

MASTER UTILITY PLAN



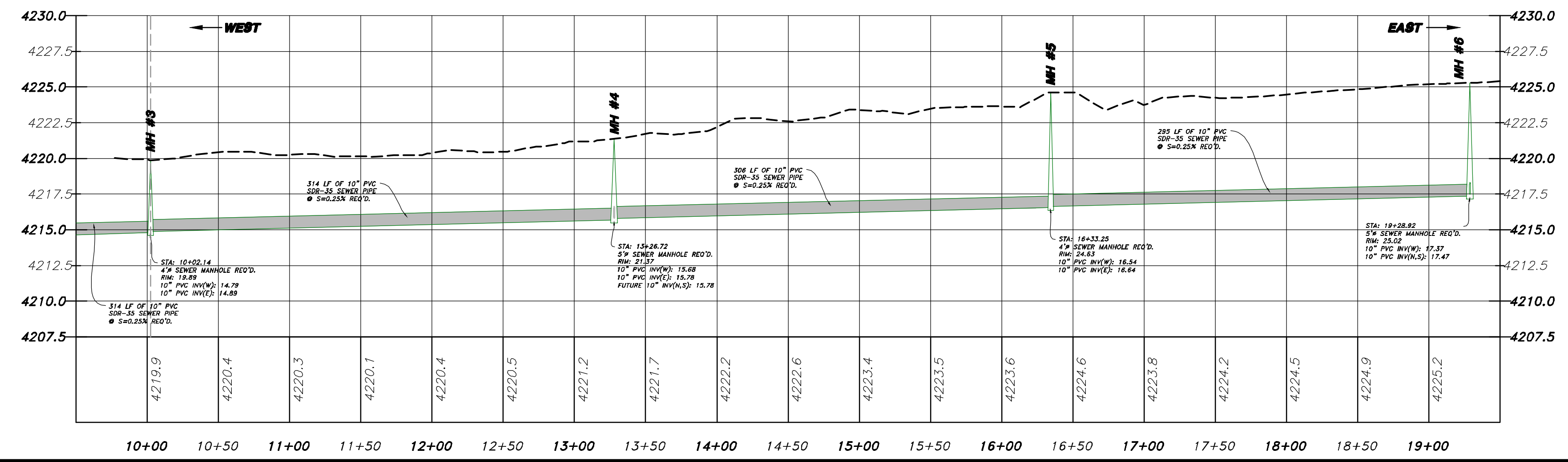
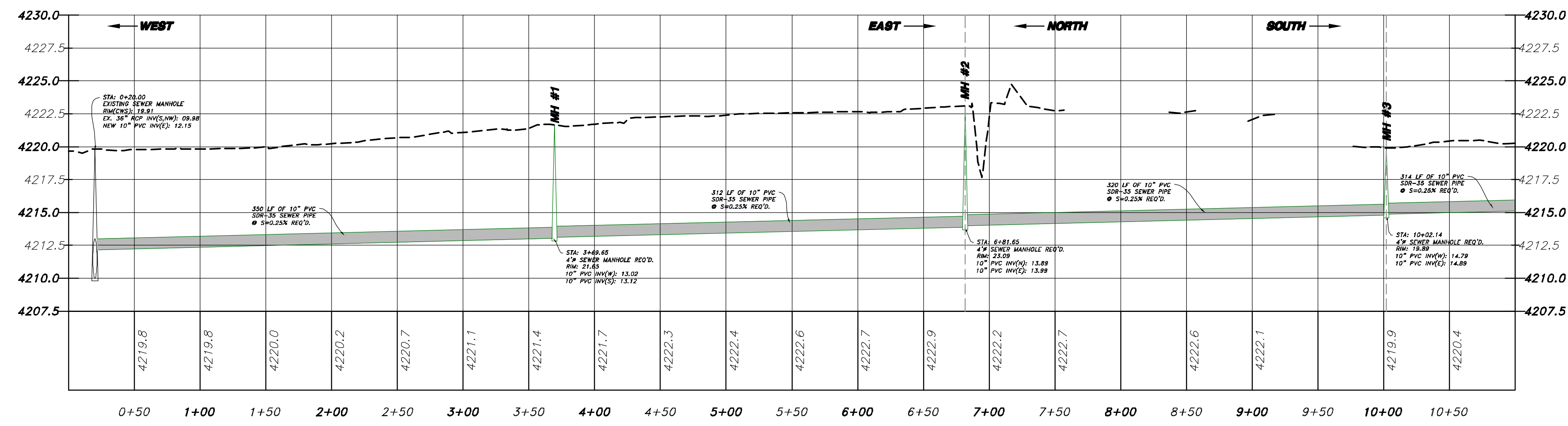
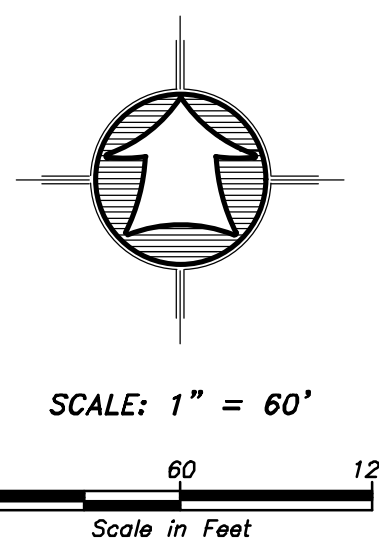
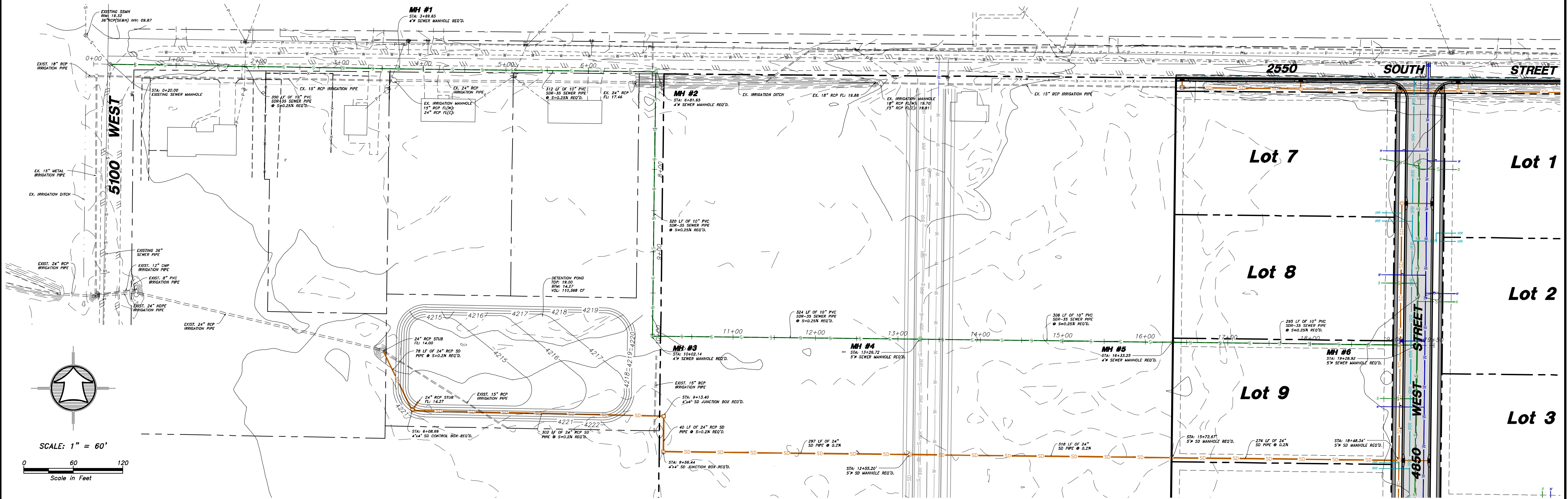
SS = WEBER COUNTY/CENTRAL WEBER SEWER DISTRICT
W = TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT
I = HOOPER IRRIGATION DISTRICT

LEGEND
— Subject Property Line
--- Interior Lot Lines
--- Adjoining Property Line
--- Centerline
— Sewer Line
— Water Line
— Irrigation Line

<p>Drawn By: MTH Date: 07/17/18</p> <p>Designed By: _____</p> <p>Checked By: _____</p> <p>Approved By: _____</p> <p>Scale: 1" = 50'</p> <p>Drawing File: 16-105r18(07-02-18)</p> <p>JOB NUMBER: 16-105</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">No.</th> <th style="width: 30%;">Date</th> <th style="width: 30%;">By</th> <th style="width: 10%;">Revision</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	Date	By	Revision				
No.	Date	By	Revision						
<p>MASTER UTILITY PLAN FOR</p> <h2 style="margin: 0;">SUN CREST MEADOWS SUBDIVISION PHASE 1</h2> <p>2550 NORTH 4900 WEST TAYLOR, UT 84401</p>									
<p>Sheet</p> <h1 style="margin: 0;">2</h1> <p>of</p> <h1 style="margin: 0;">12</h1> <p>Sheets</p>									

SUN CREST MEADOWS SUBDIVISION PHASE 1

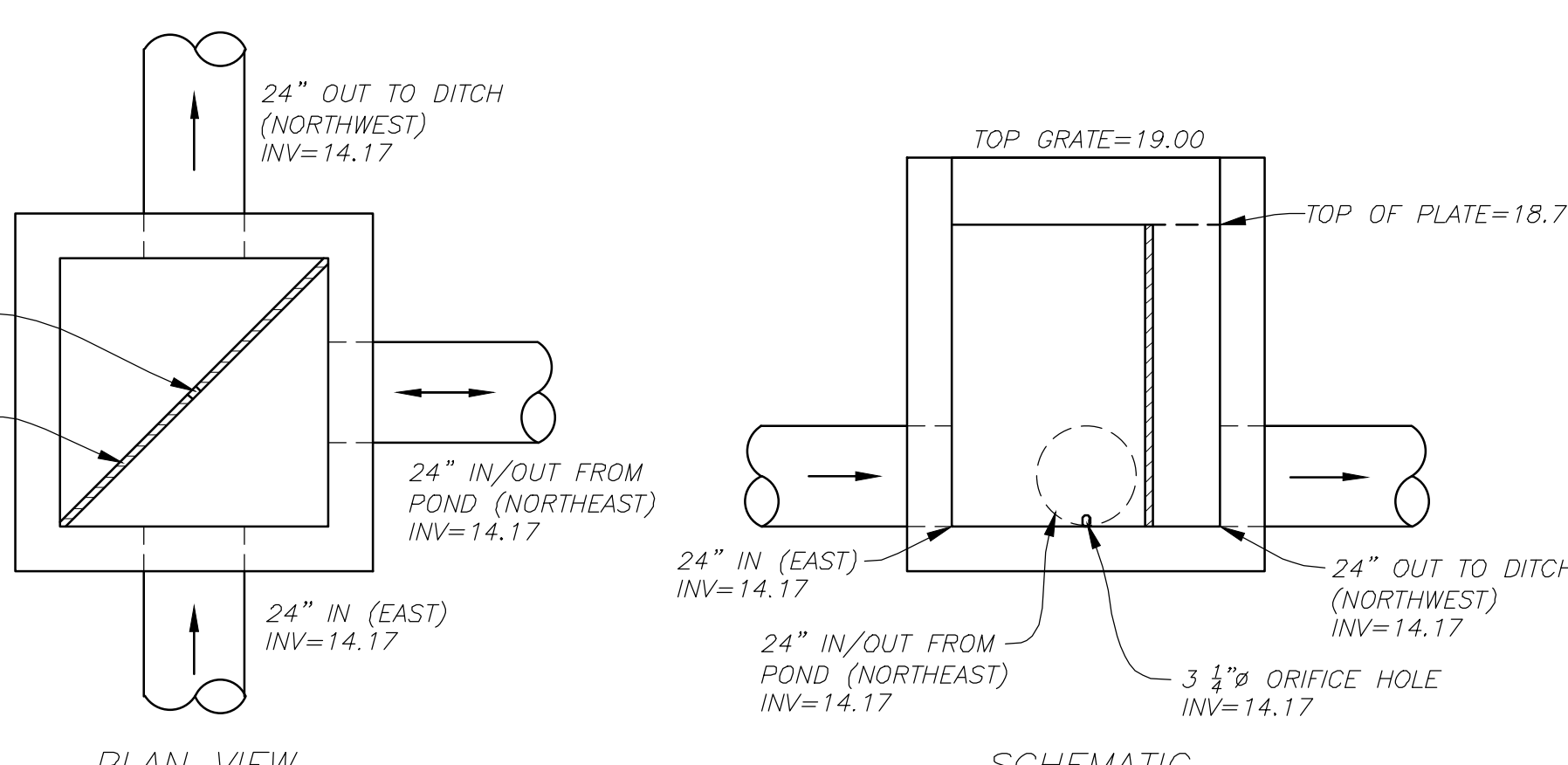
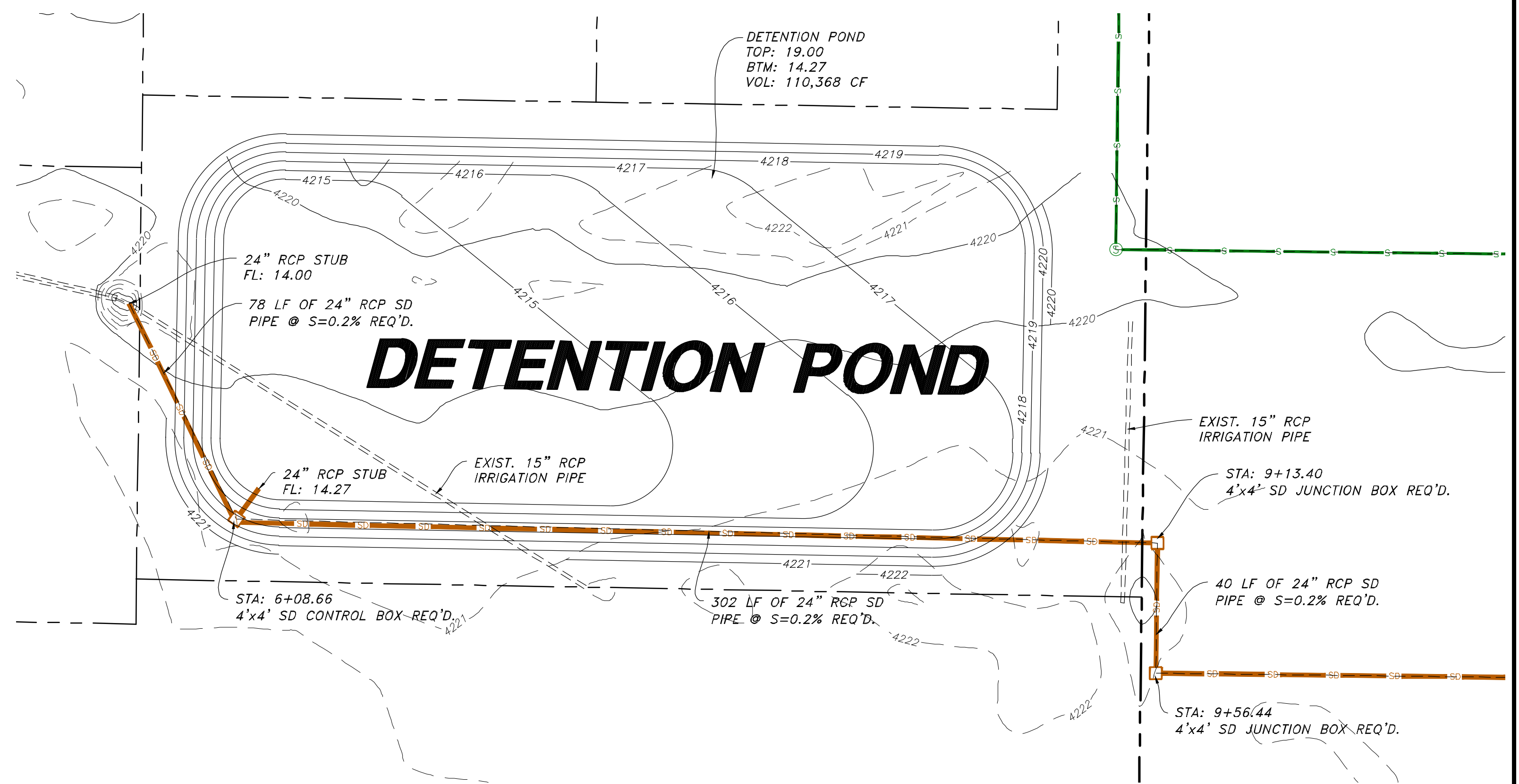
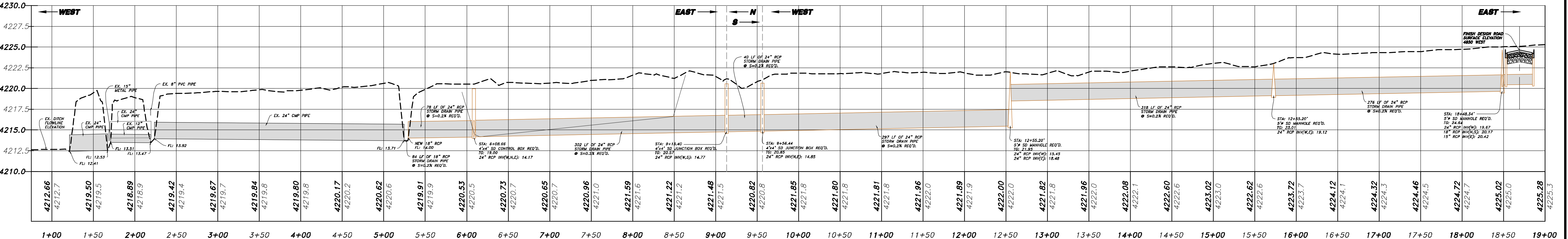
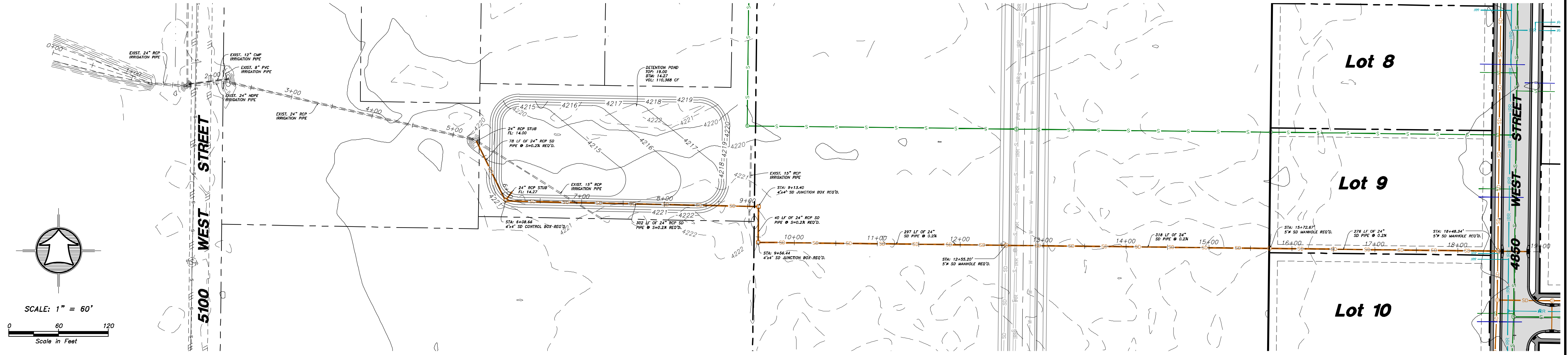
OFF-SITE SEWER PLAN & PROFILE



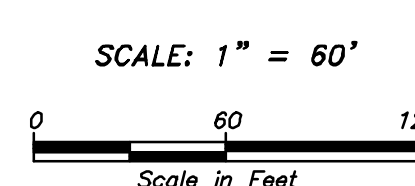
HANSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 538 North Main Street, Brigham, Utah 84302 Visit us at www.hansen.net Logan Brigham City Ogden (435) 723-3491 (801) 399-4905 (435) 752-8272	HAI
Drawn By: MTH Date: 07/17/18 Designed By: Checked By: Approved By: Scale: 1" = 60' Drawing File: 16-105-16(07-02-18) JOB NUMBER: 16-105	OFF-SITE SEWER PLAN & PROFILE SUN CREST MEADOWS SUBDIVISION PHASE 1 2550 NORTH 4900 WEST TAYLOR, UT 84401
Sheet 3 of 12 Sheets	Revision No. By Date

SUN CREST MEADOWS SUBDIVISION PHASE 1

OFF-SITE STORM DRAIN PLAN & PROFILE



STORM DRAIN CONTROL BOX DETAIL
NOT TO SCALE



HANSEN & ASSOCIATES, INC.
 Consulting Engineers and Land Surveyors
 538 North Main Street, Brigham, Utah 84302
 Visit us at www.hansen.net
 Logan
 Brigham City (801) 399-4805 (435) 752-8272

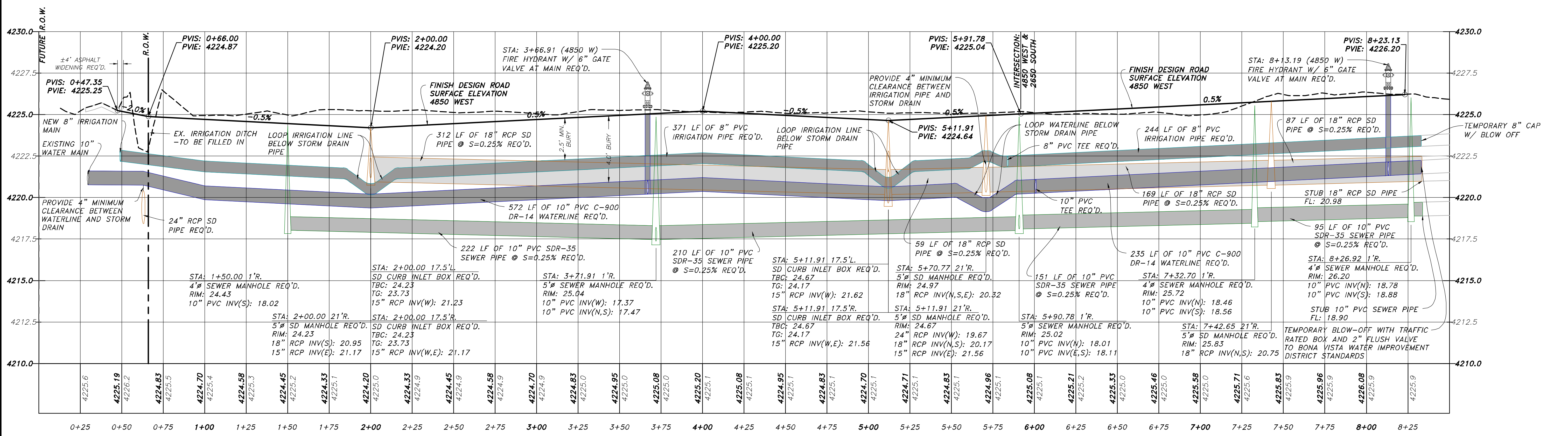
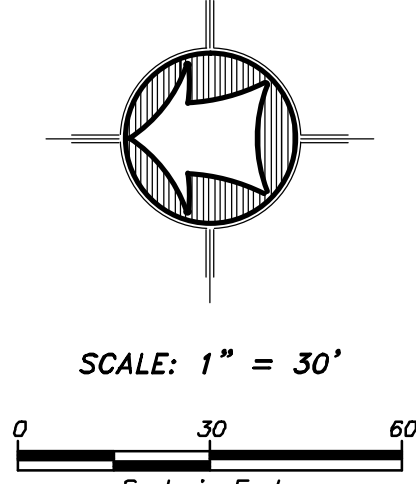
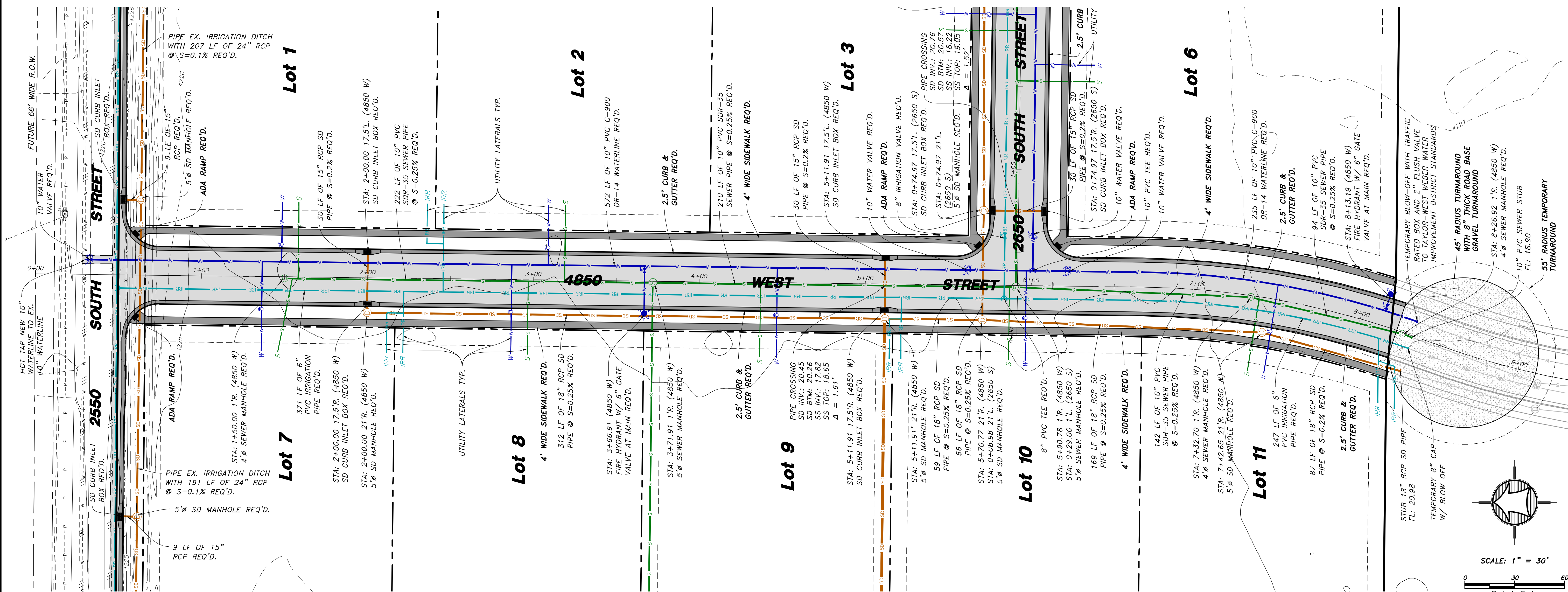
Drawn By: MTH Date: 07/17/18
 Designed By: _____
 Checked By: _____
 Approved By: _____
 Scale: 1" = 60'
 Drawing File: 16-10518(07-02)-(B)
 JOB NUMBER: 16-105

SUN CREST MEADOWS SUBDIVISION PHASE 1
 2550 NORTH 4900 WEST
 TAYLOR, UT 84401

Sheet **4** of **12** Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 1

4850 WEST PLAN AND PROFILE



HANSEN & ASSOCIATES, INC.
 Consulting Engineers and Land Surveyors
 538 North Main Street, Brigham, Utah 84302
 Visit us at www.hansen.net
 Logan, Utah
 (435) 723-3491 (801) 399-4805 (435) 752-8272

HANSEN & ASSOCIATES, INC.

Drawn By: MTH Date: 07/17/18
 Designed By: _____
 Checked By: _____
 Approved By: _____
 Scale: 1" = 30'
 Drawing File: 16-105/18(07-02-18)
 JOB NUMBER: 16-105

SUN CREST MEADOWS SUBDIVISION PHASE 1

4850 WEST PLAN & PROFILE

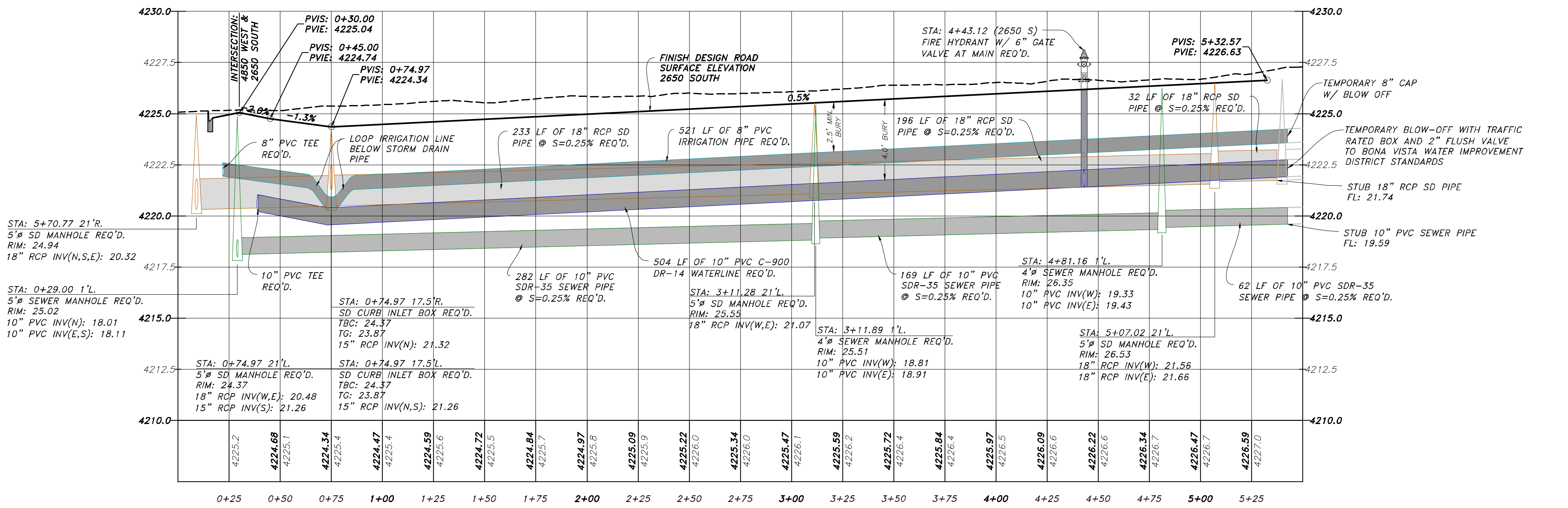
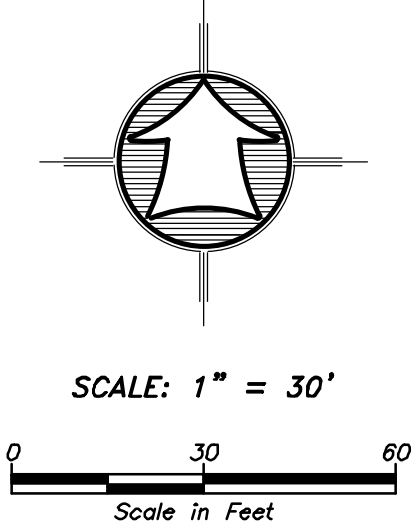
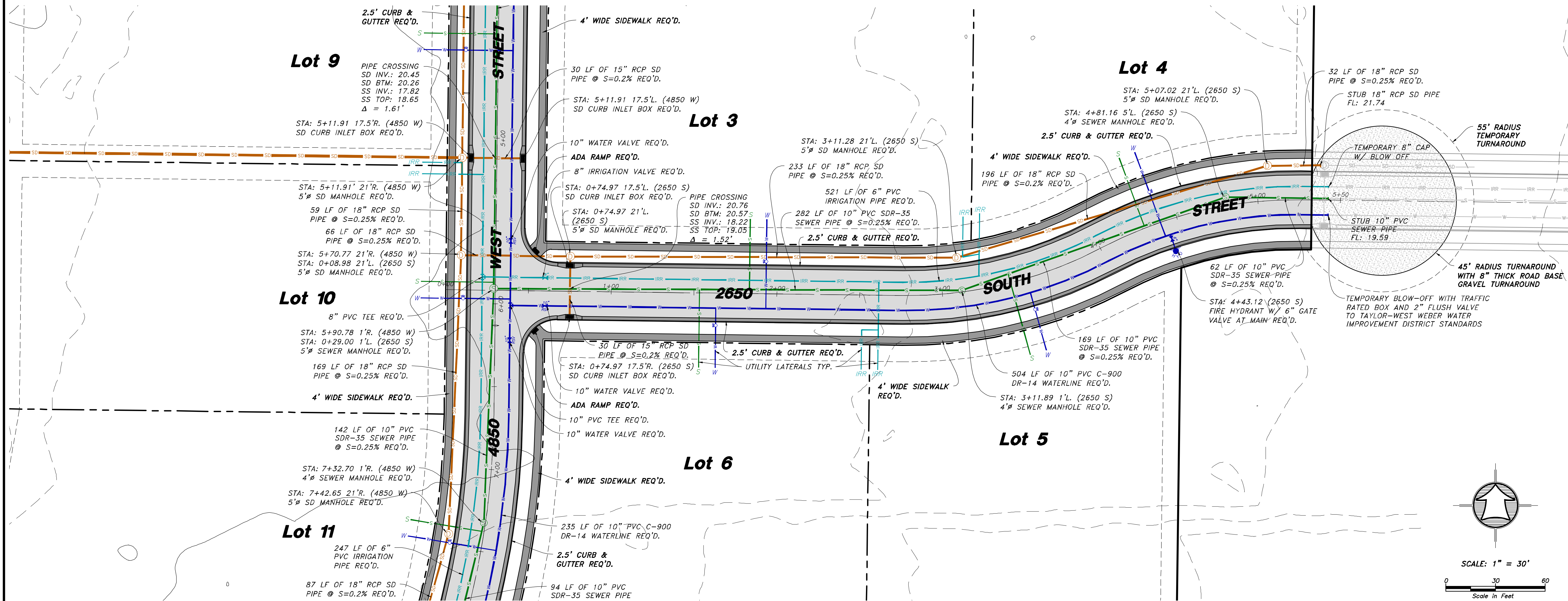
2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet **5** of **12**
Sheets

No.	Date	By	Revision

SUN CREST MEADOWS SUBDIVISION PHASE 1

2650 SOUTH PLAN AND PROFILE



<p>Drawn By: MTH Date: 07/17/18</p> <p>Designed By: _____</p> <p>Checked By: _____</p> <p>Approved By: _____</p> <p>Scale: 1" = 30'</p> <p>Drawing File: 16-105/18(07-02-18)</p> <p>JOB NUMBER: 16-105</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>No.</th> <th>By</th> <th>Date</th> <th>Revision</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	By	Date	Revision				
No.	By	Date	Revision						

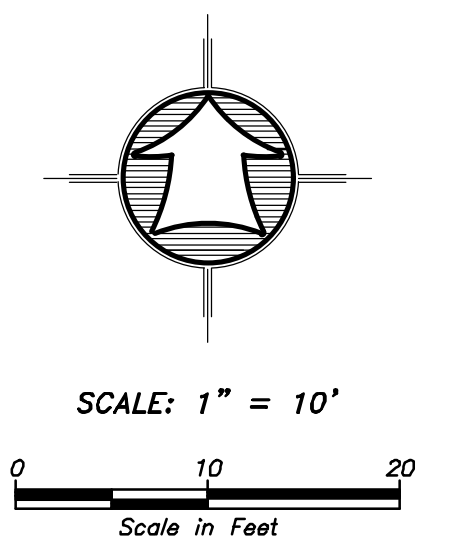
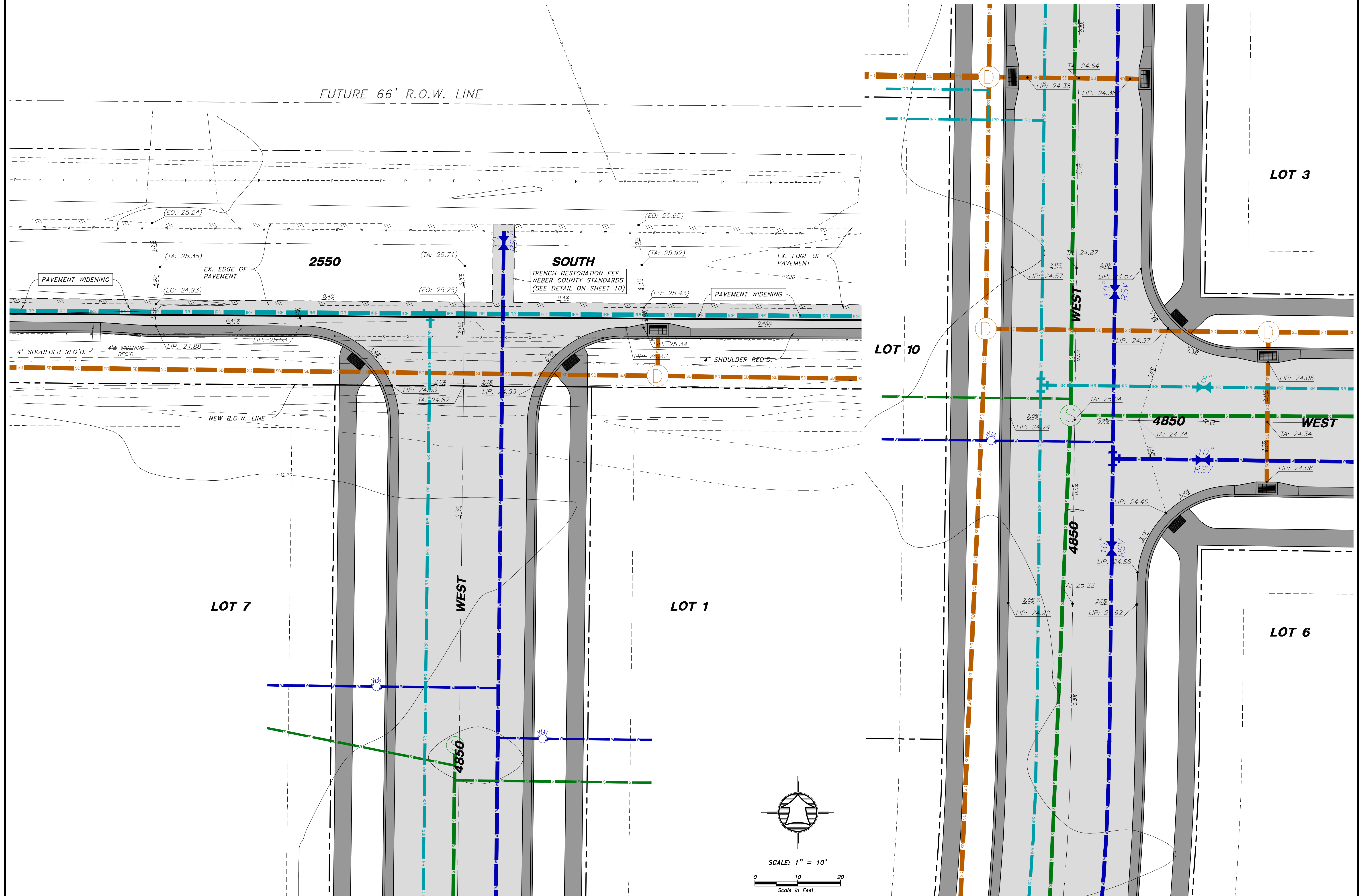
2650 SOUTH PLAN & PROFILE

SUN CREST MEADOWS SUBDIVISION PHASE 1

Sheet **6** of **12** Sheets

2550 NORTH 4900 WEST TAYLOR, UT 84401

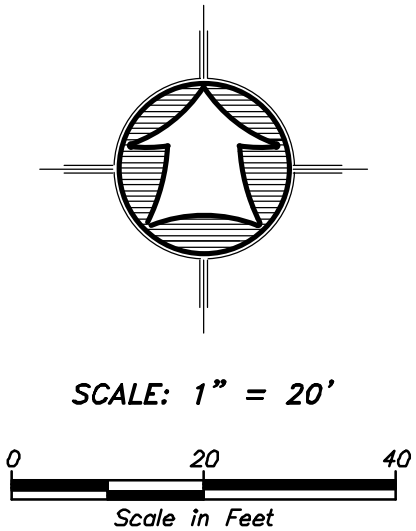
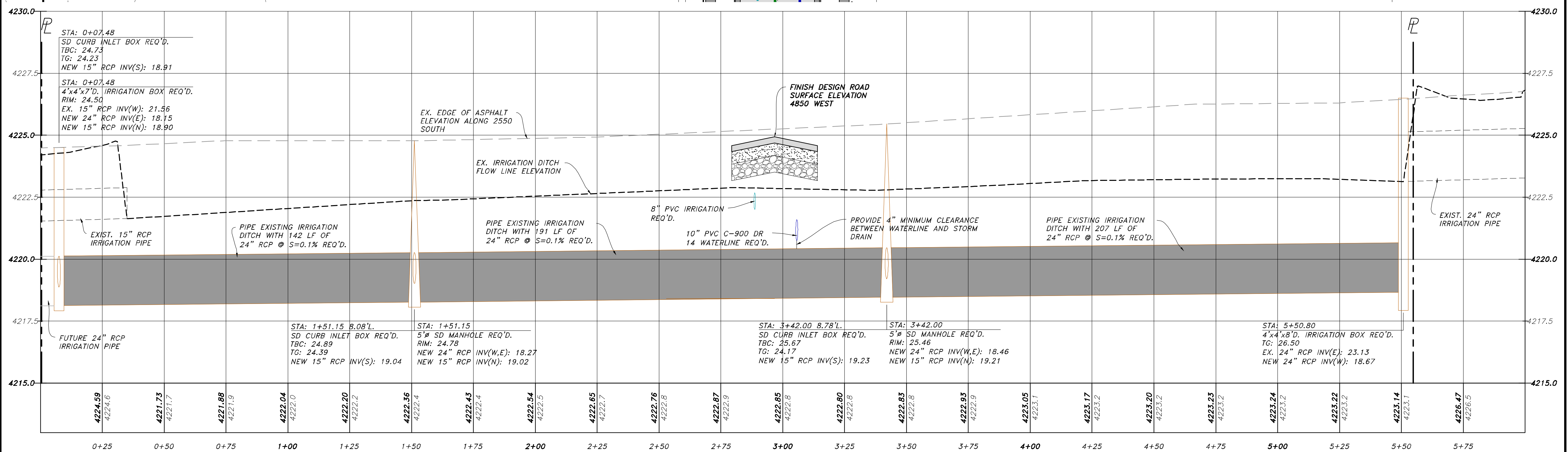
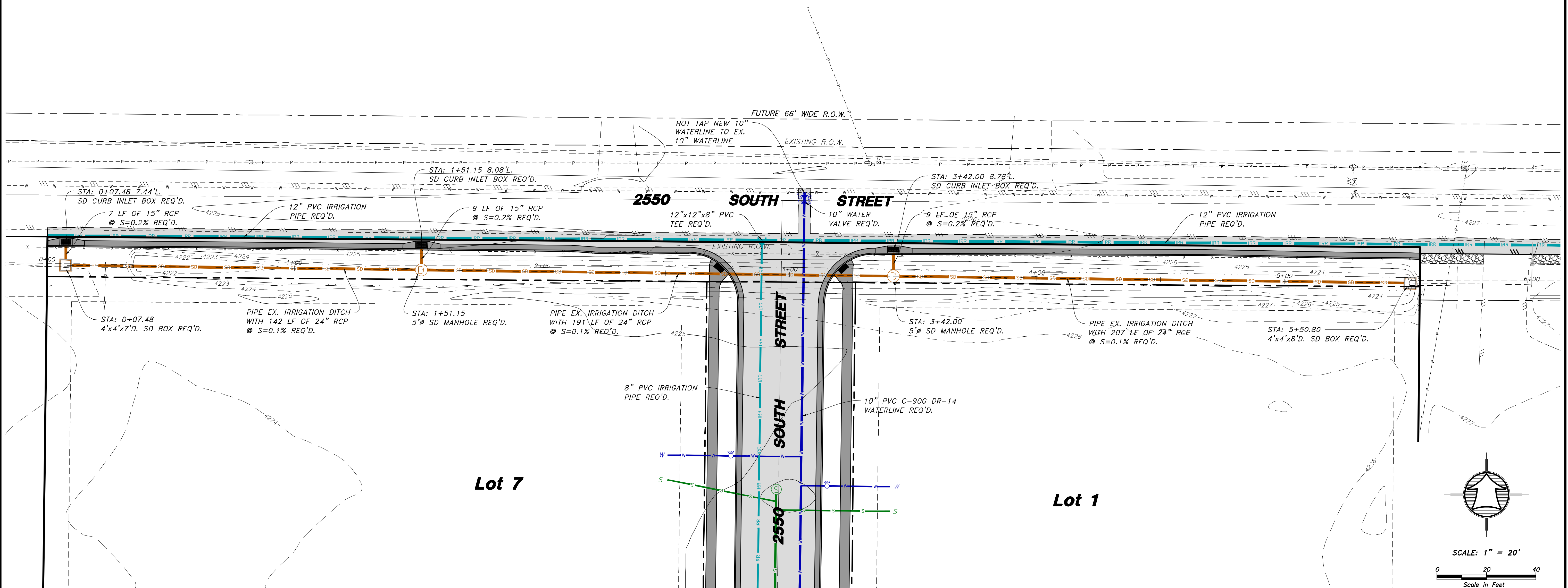
SUN CREST MEADOWS SUBDIVISION PHASE 1
INTERSECTION GRADING PLANS



INTERSECTION GRADING PLANS	
SUN CREST MEADOWS SUBDIVISION PHASE 1	
2550 NORTH, 4900 WEST TAYLOR, UT 84401	
Sheet	7
of	12
Sheets	
Drawn By: MTH	Date: 07/17/18
Designed By:	
Checked By:	
Approved By:	
Scale: 1" = 10'	
Drawing File: 16-10518(07-02-18)	
JOB NUMBER: 16-105	
HANSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 538 North Main Street, Brigham, Utah 84302 Visit us at www.haiinc.net Brigham City, Utah Logan (435) 723-3491 (801) 399-4905 (435) 752-8272	
No.	By
Date	
Revision	

SUN CREST MEADOWS SUBDIVISION PHASE 1

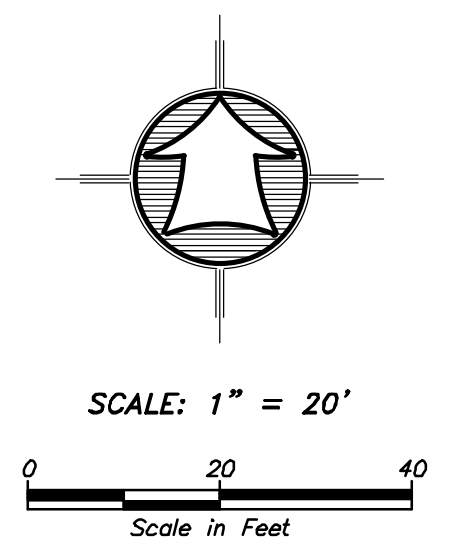
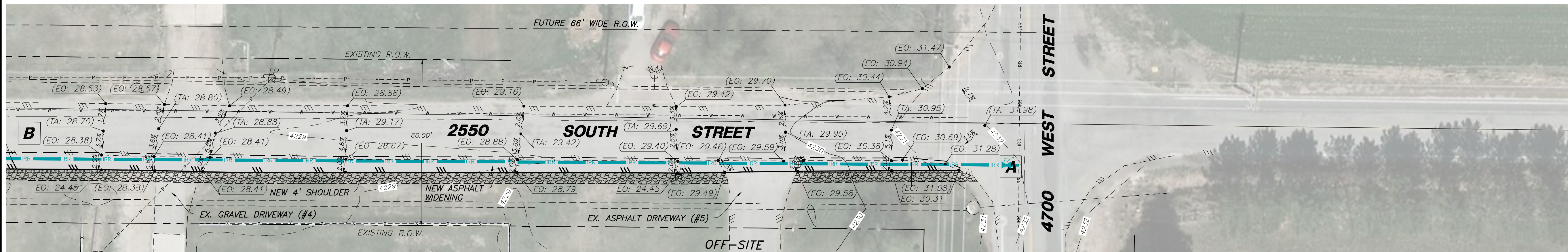
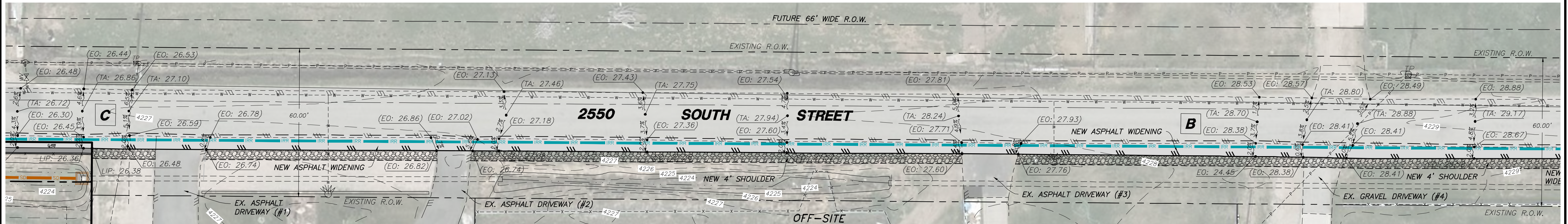
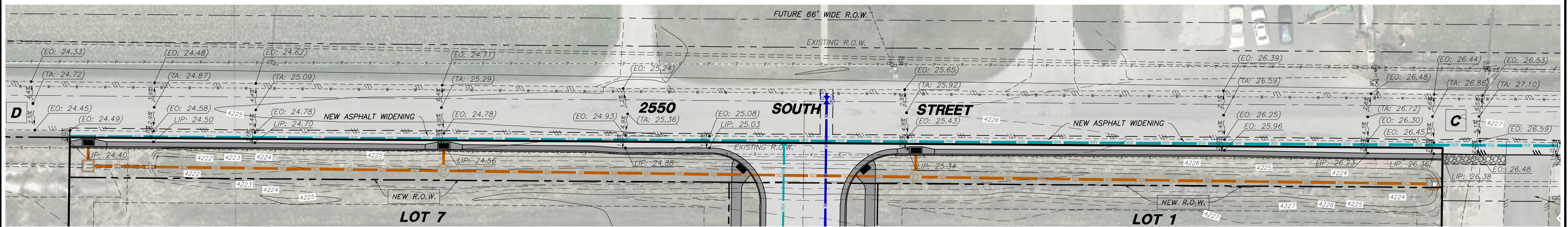
NORTH IRRIGATION DITCH PLAN & PROFILE



<p>HANSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 538 North Main Street, Brigham, Utah 84302 Visit us at www.haiinc.net Brigham City Ogden Logan (435) 723-3491 (801) 399-4905 (435) 752-8272</p>	<p>HAI</p> <p>Drawn By: MTH Date: 07/17/18 Designed By: Checked By: Approved By: Scale: 1" = 20" Drawing File: 16-105118(07-02-18) JOB NUMBER: 16-105</p>
<p>SUN CREST MEADOWS SUBDIVISION PHASE 1</p> <p>NORTH IRRIGATION DITCH PLAN & PROFILE</p> <p>2550 NORTH 4900 WEST TAYLOR, UT 84401</p>	
<p>Sheet 8 of 12 Sheets</p>	

SUN CREST MEADOWS SUBDIVISION PHASE 1

2550 SOUTH ASPHALT WIDENING GRADING PLAN



No.	Date	By	Revision

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



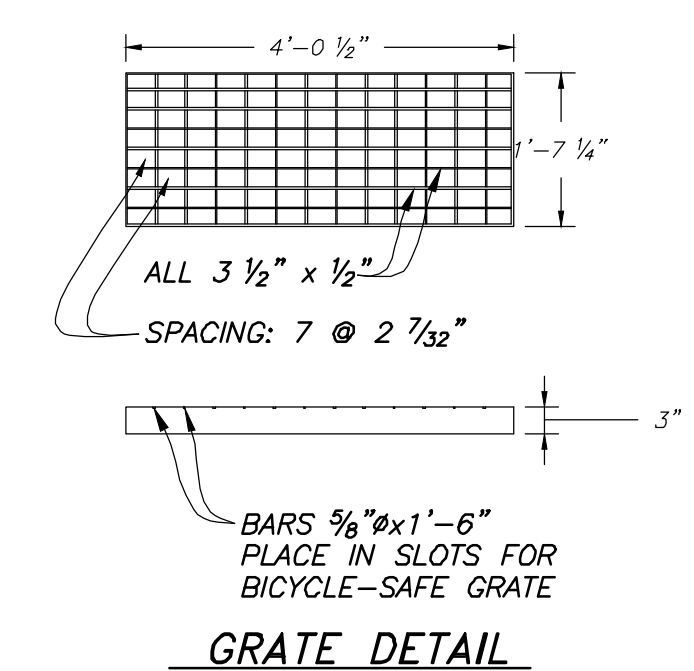
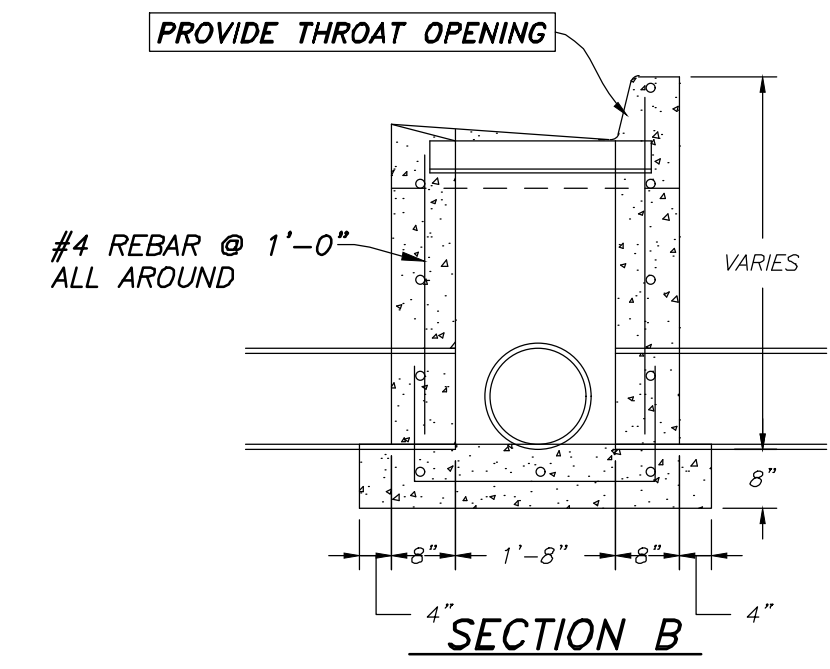
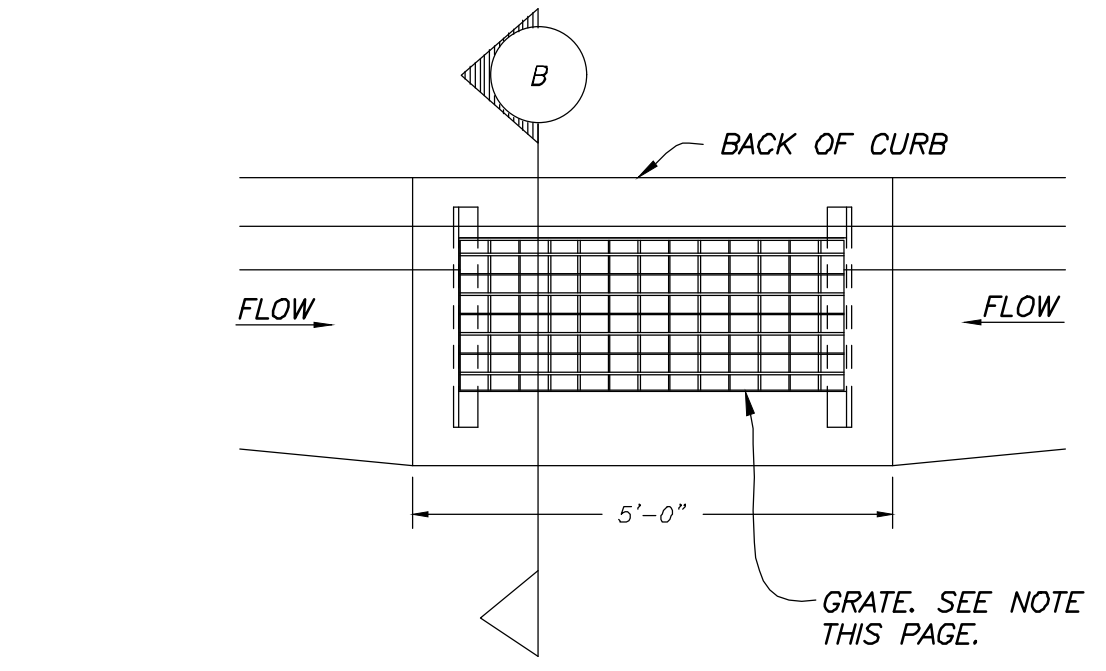
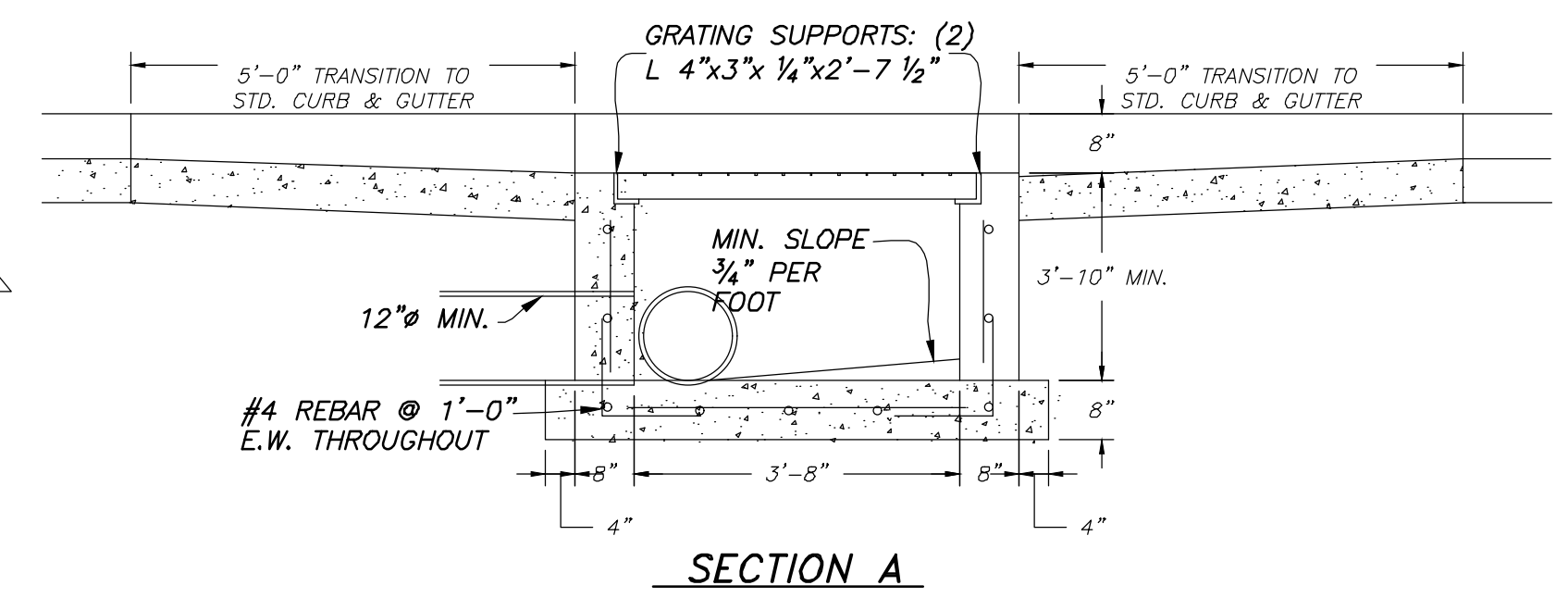
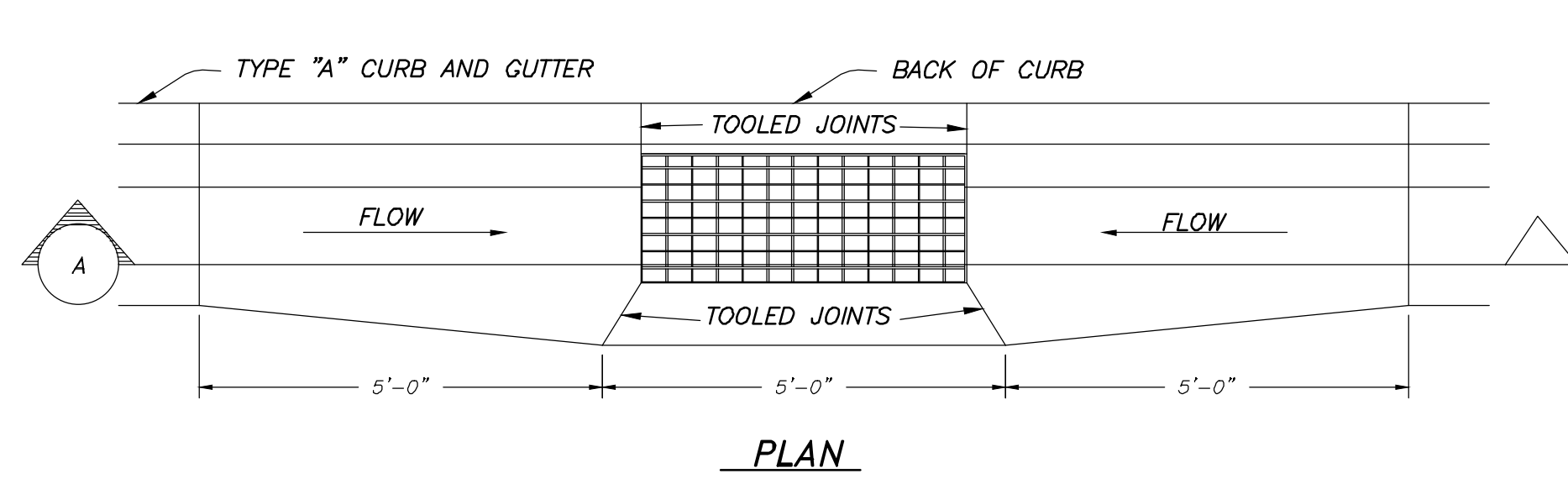
Drawn By: MTH Date: 07/17/18
 Designed By: _____
 Checked By: _____
 Approved By: _____
 Scale: 1" = 20'
 Drawing File: 16-10516(07-02-18)
 JOB NUMBER: 16-105

2550 SOUTH WIDENING GRADING PLAN
SUN CREST MEADOWS SUBDIVISION PHASE 1
 2550 NORTH 4900 WEST
 TAYLOR, UT 84401

Sheet
9
 of
12
 Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 1

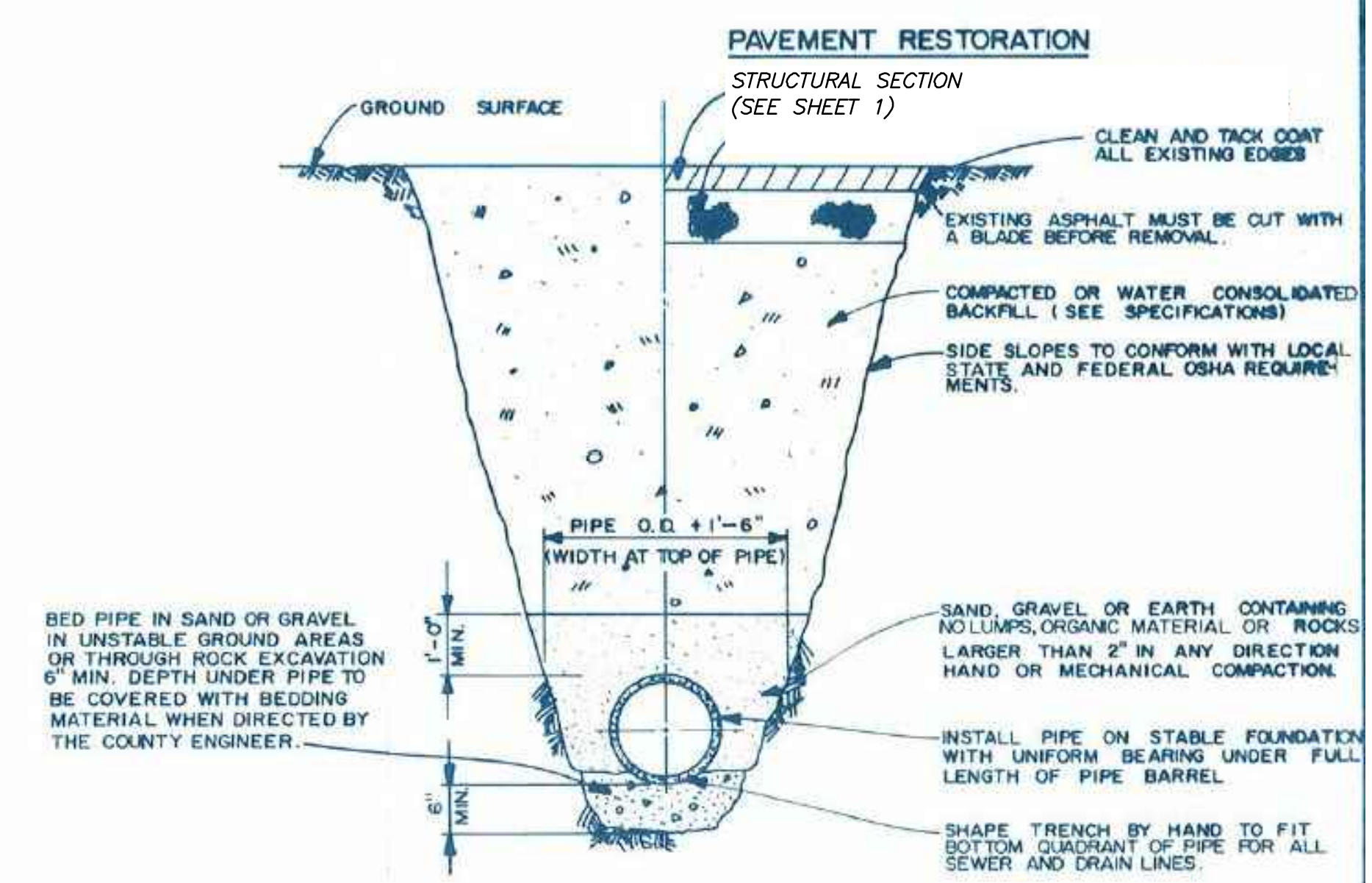
DETAIL SHEET



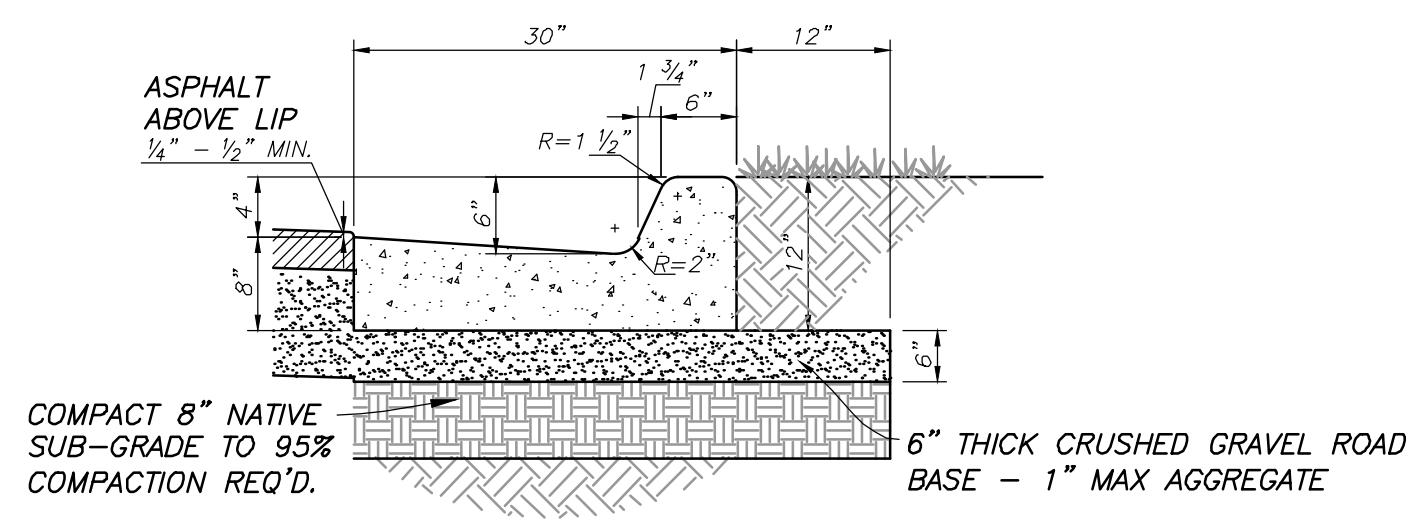
- NOTES:**
1. ALL GRATES SHALL BE U.D.O.T. STD. V-988 OR D&L, N-9221, AS SHOWN IN DETAIL AND GALVANIZED IN ACCORDANCE WITH U.D.O.T.
 2. BICYCLE SAFE GRATE REQ'D

CONTRACTOR MAY SUBSTITUTE AMCOR PRECAST CB110 CATCH BASIN OR APPROVED EQUAL

TYPICAL CURB INLET BOX
NOT TO SCALE

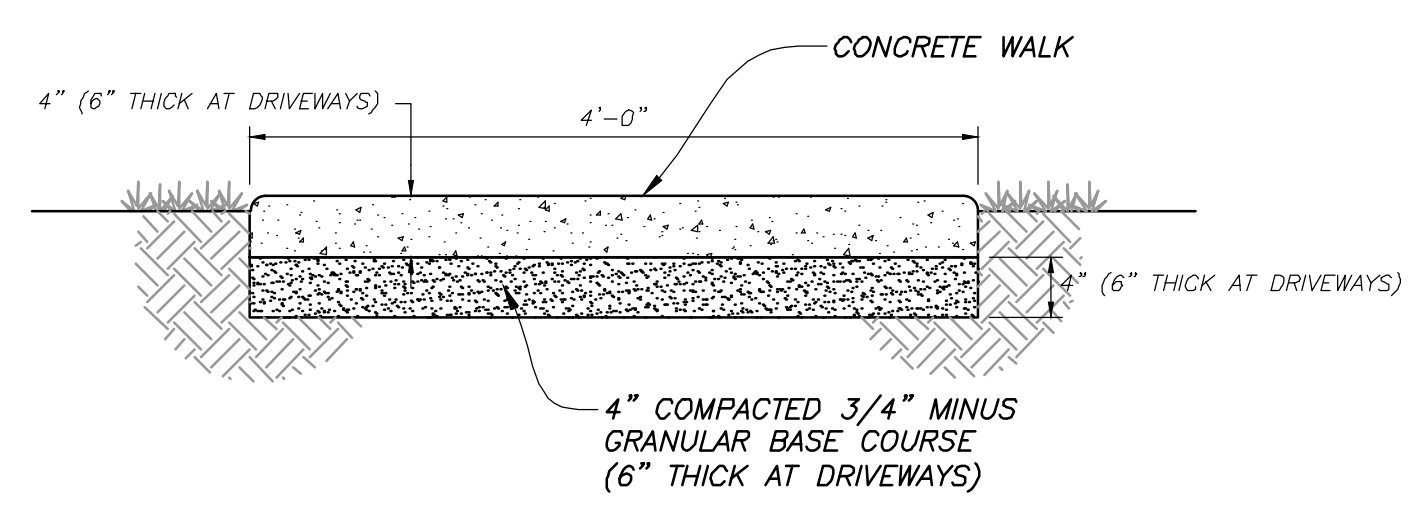


WEBER COUNTY PUBLIC WORKS STANDARDS

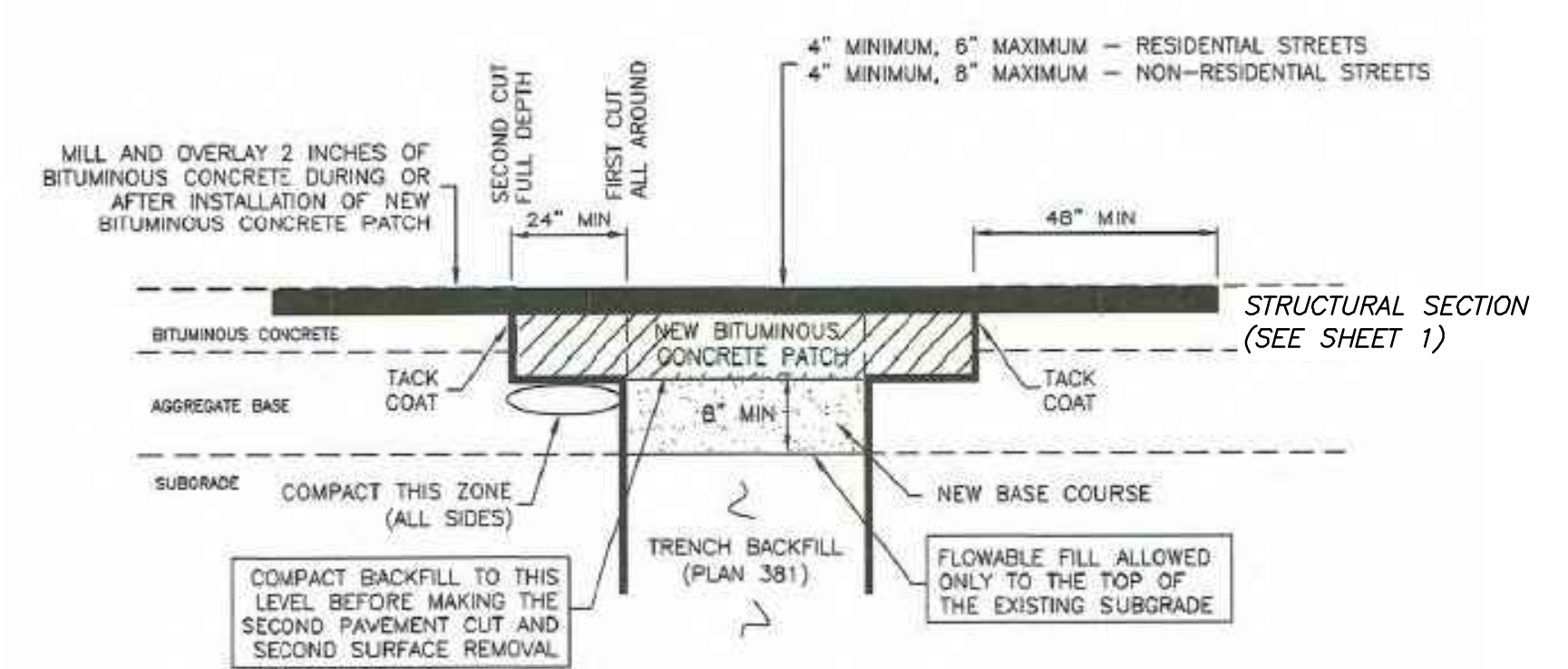


CONCRETE TO BE 4000 PSI 28 DAY STRENGTH
4" MAX. SLUMP; AIR 6% ± 1/2%

CATCH CURB & GUTTER SECTION
NOT TO SCALE



SIDEWALK SECTION
NOT TO SCALE



APWA 2017 STANDARDS

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



Drawn By: MTH Date: 07/17/18
Designed By:
Checked By:
Approved By:
Scale:
Drawing File: 16-105r18(07-02-18)
JOB NUMBER: 16-105

DETAIL SHEET FOR
SUN CREST MEADOWS SUBDIVISION PHASE 1
2550 NORTH 4900 WEST
TAYLOR, UT 84401

No.	Date	By	Revision

Sheet
10
of
12
Sheets

SUN CREST MEADOWS SUBDIVISION PHASE 1

DETAIL SHEET

TABLE OF CONTENTS

THRUST BLOCKING DETAIL.....1
 TYPICAL VALVE DETAIL.....2
 TYPICAL TRENCH SECTION.....3
 UDOT CROSSING DETAIL.....4
 TYPICAL SERVICE CONNECTION.....5
 FIRE HYDRANT DETAIL.....6
 AIR/VAC DETAIL.....7
 CASED CROSSING DETAIL.....8
 BLOW OFF VALVE DETAIL.....9

1
THRUST BLOCKING DETAIL
(NOT TO SCALE)

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 BASIS OF A MAXIMUM LATERAL BEARING VALUE OF 800 P.S.F. AND A THRUST RESULTING FROM 150% OF THE WATER LINE STATIC PRESSURE.

SIZE	BENDS			TEES	GATE VALVES	CROSSING/ BRANCH ENDS	CROSSING/ BRANCH ENDS
	90°	45°	22 1/2°				
3	1.0	0.0	0.0	0.0	0.7	0.5	0.7
4	1.8	1.0	0.5	0.0	1.3	0.5	1.3
6	4.0	2.2	1.1	0.0	2.8	0.7	2.8
8	7.1	3.6	2.0	1.0	5.0	2.4	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8
12	16.0	9.0	4.4	2.2	11.3	7.3	11.3
14	21.7	11.6	6.0	3.0	15.4	11.0	15.4
16	28.0	15.5	7.8	4.0	20.0	17.6	20.0
18	36.0	19.4	10.0	5.0	25.4	23.4	25.4
20	44.2	24.0	12.2	6.1	31.4	31.4	31.4
21	49.0	26.5	13.5	6.8	34.6	34.6	34.6
22	54.0	29.0	14.8	7.4	38.0	38.0	38.0
24	64.0	34.5	17.7	8.8	45.0	45.0	45.0
30	100.0	54.0	27.6	13.8	71.0	71.0	71.0
36	144.0	78.0	40.0	20.0	102.0	102.0	102.0

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 "C".

C = 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 1000 P.S.I. AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.
 C = 1000 / 3000 = 0.333
 0.5 X 7.1 = 3.55 ~ 4 SQ. FT. (-OR 2FT. 30" FT. HIGH.)
 0.5 X 7.1 = 3.55 ~ 4 SQ. FT. (-OR 2FT. 30" FT. HIGH.)

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

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)

ADJUST WATER VALVE BOX TO GRADE FOLLOWING FINAL SURFACE PREP. 1/4" CONCRETE COLLAR - COLLAR TO BE HELD DOWN 1/4" BELOW TOP OF NEW ASPHALT IF IN ROADWAY.

3" MIN. ASPHALT DEPTH-IF EXISTING PAVEMENT- GREATER DEPTH, MATCH EXISTING PAVEMENT.

GROUND SURFACE.

2" WIDE METALLIC LOCATOR TAPE, "WATER LINE BURIED BELOW"

10" UNTREATED BASE COURSE GRAVEL.

PAVED ROADWAY TRENCHES, EXISTING AND PROPOSED IMPORTED GRANULAR BACKFILL. NON-ROADWAY TRENCHES ON SITE BACKFILL MATERIAL.

SAND, GRAVEL OR EARTH CONTAINING NO LUMPS ORGANIC MATERIAL OR "ROCK LARGER THAN 1/2" IN ANY DIRECTION, HAND OR MECHANICAL COMPACTION.

INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE.

#14 GAUGE PLASTIC COATED COPPER WIRE.

RED PIPE IN SAND OR GRAVEL IN UNSTABLE GROUND AREAS OR THROUGH ROCK EXCAVATION, 6" MIN. DEPTH UNDER PIPE.

SHARP TRENCH BY HAND TO FIT BOTTOM QUADRANT OF PIPE FOR ALL STORM DRAIN LINES.

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)

3" MIN. ASPHALT DEPTH-IF EXISTING PAVEMENT- GREATER DEPTH, MATCH EXISTING PAVEMENT.

GROUND SURFACE.

2" WIDE METALLIC LOCATOR TAPE, "WATER LINE BURIED BELOW"

10" UNTREATED BASE COURSE GRAVEL.

PAVED ROADWAY TRENCHES, EXISTING AND PROPOSED IMPORTED GRANULAR BACKFILL. NON-ROADWAY TRENCHES ON SITE BACKFILL MATERIAL.

SAND, GRAVEL OR EARTH CONTAINING NO LUMPS ORGANIC MATERIAL OR "ROCK LARGER THAN 1/2" IN ANY DIRECTION, HAND OR MECHANICAL COMPACTION.

INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE.

#14 GAUGE PLASTIC COATED COPPER WIRE.

RED PIPE IN SAND OR GRAVEL IN UNSTABLE GROUND AREAS OR THROUGH ROCK EXCAVATION, 6" MIN. DEPTH UNDER PIPE.

SHARP TRENCH BY HAND TO FIT BOTTOM QUADRANT OF PIPE FOR ALL STORM DRAIN LINES.

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)

3" MIN. ASPHALT DEPTH-IF EXISTING PAVEMENT- GREATER DEPTH, MATCH EXISTING PAVEMENT.

GROUND SURFACE.

2" WIDE METALLIC LOCATOR TAPE, "WATER LINE BURIED BELOW"

10" UNTREATED BASE COURSE GRAVEL.

PAVED ROADWAY TRENCHES, EXISTING AND PROPOSED IMPORTED GRANULAR BACKFILL. NON-ROADWAY TRENCHES ON SITE BACKFILL MATERIAL.

SAND, GRAVEL OR EARTH CONTAINING NO LUMPS ORGANIC MATERIAL OR "ROCK LARGER THAN 1/2" IN ANY DIRECTION, HAND OR MECHANICAL COMPACTION.

INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE.

#14 GAUGE PLASTIC COATED COPPER WIRE.

RED PIPE IN SAND OR GRAVEL IN UNSTABLE GROUND AREAS OR THROUGH ROCK EXCAVATION, 6" MIN. DEPTH UNDER PIPE.

SHARP TRENCH BY HAND TO FIT BOTTOM QUADRANT OF PIPE FOR ALL STORM DRAIN LINES.

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)

INSTALL 6" VALVE WITH BOX AT CONNECTION TO MAIN

GRAVEL DRAIN 1 YARD MIN.

CONCRETE THRUST BLOCK

CONCRETE THRUST BLOCK

CONCRETE THRUST BLOCK

CONCRETE THRUST BLOCK

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)

30" MANNHOLE RING & COVER LABELED "WATER"

PIPE FOR BLOW-OFF PIPE FOR VALVE

30" CONCRETE PIPE SECTION

2" (Model #78) or 4" (Model #7600) BLOW-OFF VALVE. SEES 8" NEEDED TO OBTAIN FLUSHING VELOCITY OF 2.5 FPS IN MAIN LINE. IT MANDATORILY ON APPROVED EQUAL.

3/4" FREE DRAINING GRAVEL (1 C.Y. MIN.)

WATER LINE

GATE VALVE FLXFL BRASS OR HDPE PIPE, BRASS FITTINGS

CONC. THRUST BLOCK

2" OR 4" BELOW-GRADE BLOW-OFF VALVE

30" CONCRETE PIPE SECTION

OR INSTALL AT END OF LINE THROUGH CAP AND THRUST BLOCK

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.

- The Taylor-West Weber Water Improvement District manager shall approve any variations from these standards.
- 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 for certification of this certification, all such components shall be stamped with the NSF logo.
- All water mains shall be new PVC with a minimum cover of 4 feet.
 - Main pipelines shall be a minimum of 10" diameter.
 - Pipelines 12" and smaller diameter shall be AWWA C-900 DR14.
 - Pipelines 14" and larger diameter shall be AWWA C-905 DR18.
 - Under no circumstances shall the pipe or accessories be dropped into the trench.
 - The open ends of all pipeline under construction shall be covered and effectively sealed at the end of the day's work.
 - All waterlines shall be pressure tested at 200 PSI for at least 2 hours, according to the latest edition of AWWA Standard C600.
 - 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:
 - The first sample will be pulled and tested immediately after initial flushing;
 - 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;
 - 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.
 - 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.
 - 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.
- 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 30" diameter by 8" thick concrete collar shall be poured around each valve box, with the valve box centered in the collar.
 - Main line valves shall be gate valves if 10" or smaller diameter.
 - Main line valves, where possible, shall be butterfly valves if 12" or larger diameter.
 - A valve shall be placed on all three sides of a newly constructed tee.
 - 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.
 - A valve shall be placed on all four sides of a newly constructed cross.
- 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.
 - 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.
 - Minimum carrier, casing and wall thickness dimensions are as follows:
 - 10" pipe 16" casing 0.375" wall thickness
 - 12" pipe 18" casing 0.375" wall thickness
 - 14" pipe 20" casing 0.375" wall thickness
 - 16" pipe 24" casing 0.5" wall thickness
 - 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.
 - 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.
- Fire hydrants shall be Mueller Centurion or District-approved equal.
 - The hydrant valve shall be placed at the main line.
- When a sewer line is parallel to a water line, a minimum of 10 horizontal feet shall be designed between their EDGES.
 - 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.
- Secondary water lines shall be installed in each new subdivision.
 - Secondary and culinary water lines shall be installed in distinctly separate trenches.
- Services:
 - All service saddles shall be nylon coated with double stainless steel straps (e.g. Romac 202N or District-approved equal).
 - All service laterals shall run in a straight line from the meter to the main, and shall be square with the main line.
 - The minimum cover over any water main or service line shall be 4' below finished grade.
 - All service laterals shall be HDPE.
 - Typical residential service laterals shall be 200 PSI 1" CTS.
 - Meter boxes will be 18" dia. X 30" deep concrete.
 - Meter box lids shall be solid, with the word "WATER" cast in them.
- 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 Tripoc 2000 Blue Coating System.
- 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 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.

Gardner Engineering
 CIVIL ENGINEERING
 LAND SURVEYING
 WATER RESOURCES

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

HANSEN & ASSOCIATES, INC.
 Consulting Engineers and Land Surveyors
 538 North Main Street, Brigham, Utah 84302
 Visit us at www.hanseninc.com
 Logan, Utah (801) 399-4805
 Ogden, Utah (801) 752-8272

HAI

CULINARY WATER STANDARD DETAILS AND SPECIFICATIONS FOR
SUN CREST MEADOWS SUBDIVISION PHASE 1

2550 NORTH 4900 WEST
 TAYLOR, UT 84401

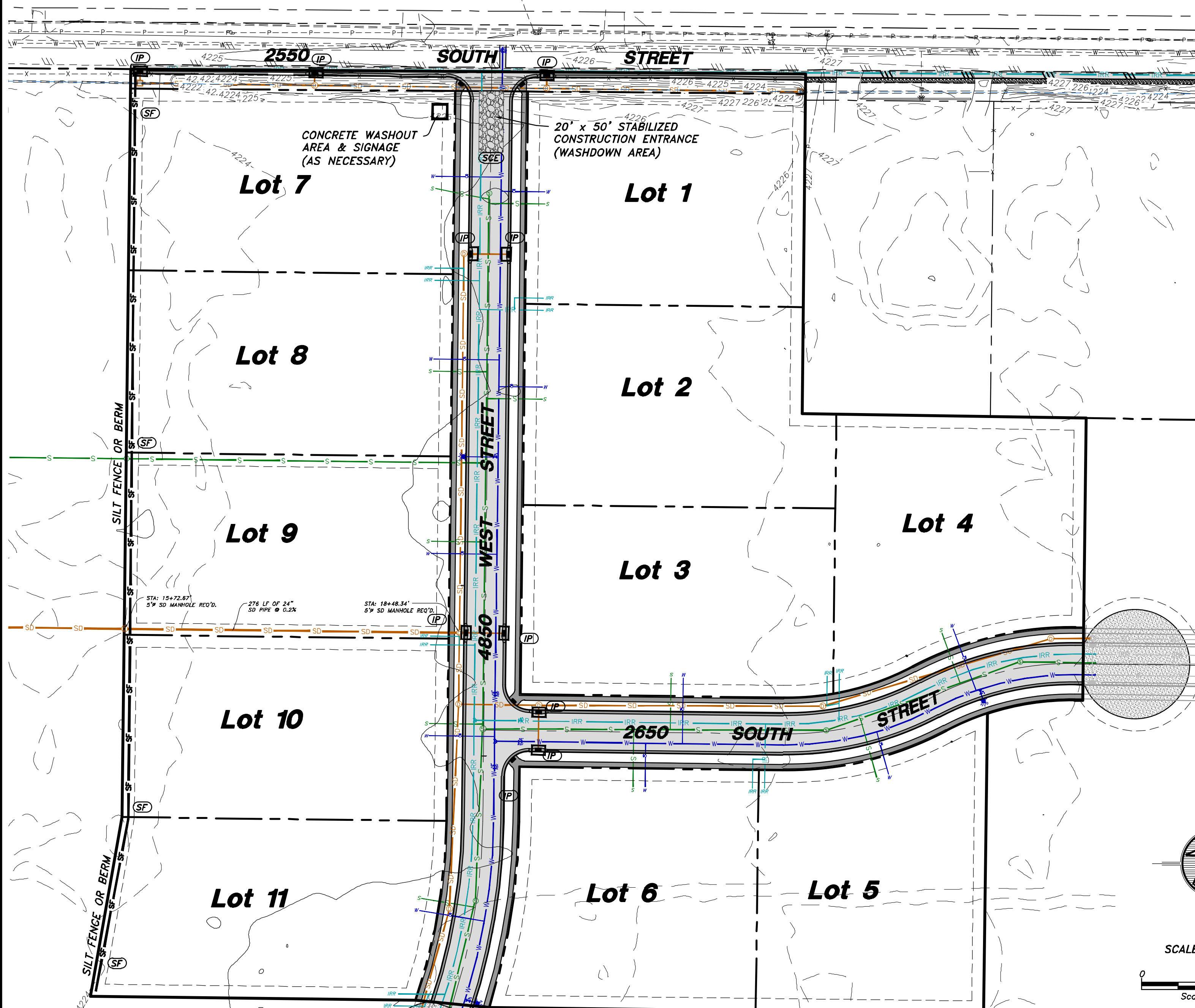
Sheet	No.	Date	By	Revision
11				
12				

Drawn By: MTH Date: 07/17/18
 Designed By:
 Checked By:
 Approved By:
 Scale:
 Drawing File: 16-105618(07-02-18)
 JOB NUMBER: 16-105

SUN CREST MEADOWS SUBDIVISION PHASE 1

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.



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: 522,589 SQ. FT.
12.00 ACRES
IMPERVIOUS AREA: 48,513 SQ. FT.
1.12 ACRES
PERMEABLE AREA: 474,076 SQ. FT.
10.88 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:

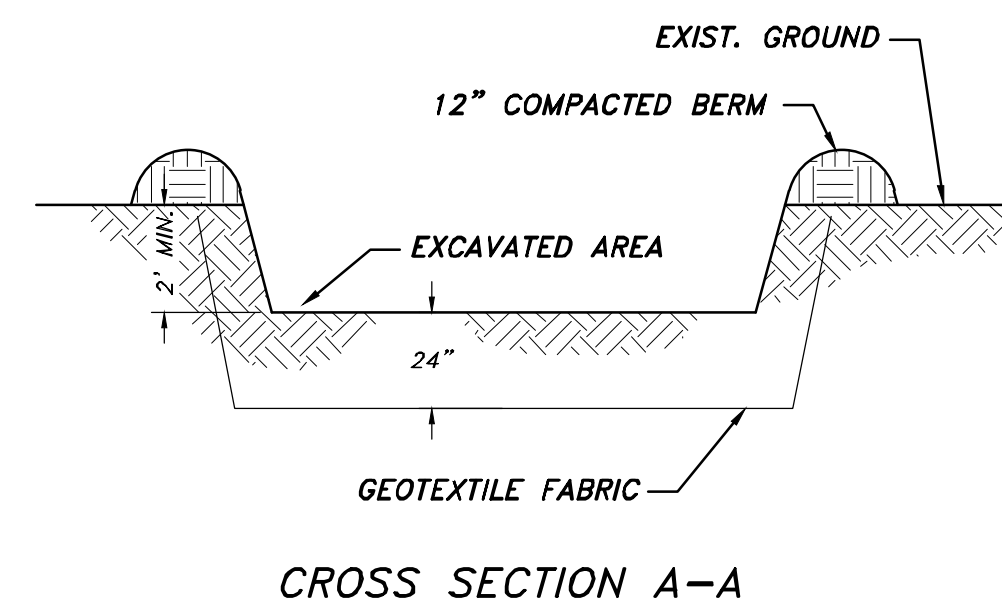
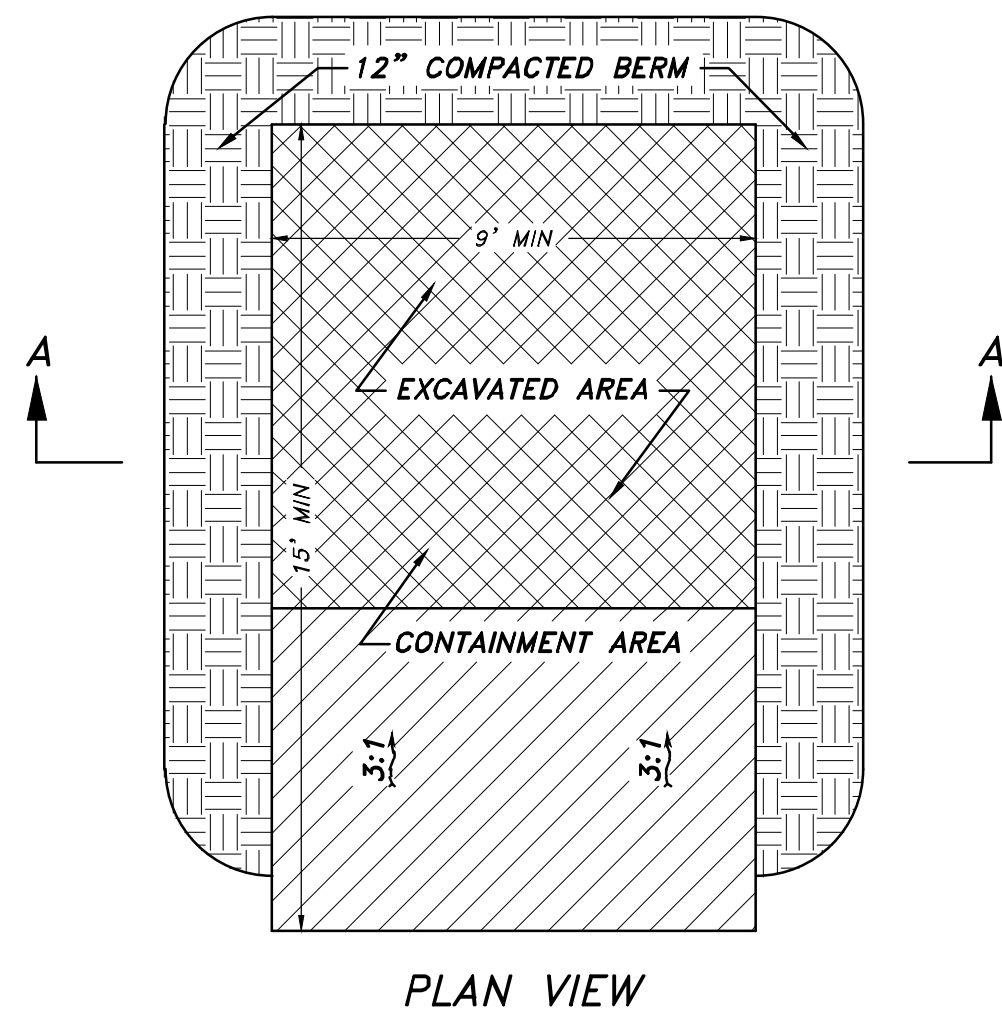
STRICT RECORD KEEPING IS IMPERATIVE. THE PROJECT WILL BE STATE-PERMITTED BUT PARTICULARLY UNDER THE AUSPICES OF WEBER COUNTY. KEEP INSPECTION REPORTS FORMS/FORMAT AS MANDATED BY WEBER COUNTY. A THOROUGH INSPECTION OF THE SWPPP MUST BE CONDUCTED AT LEAST EVERY 14 DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT 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.

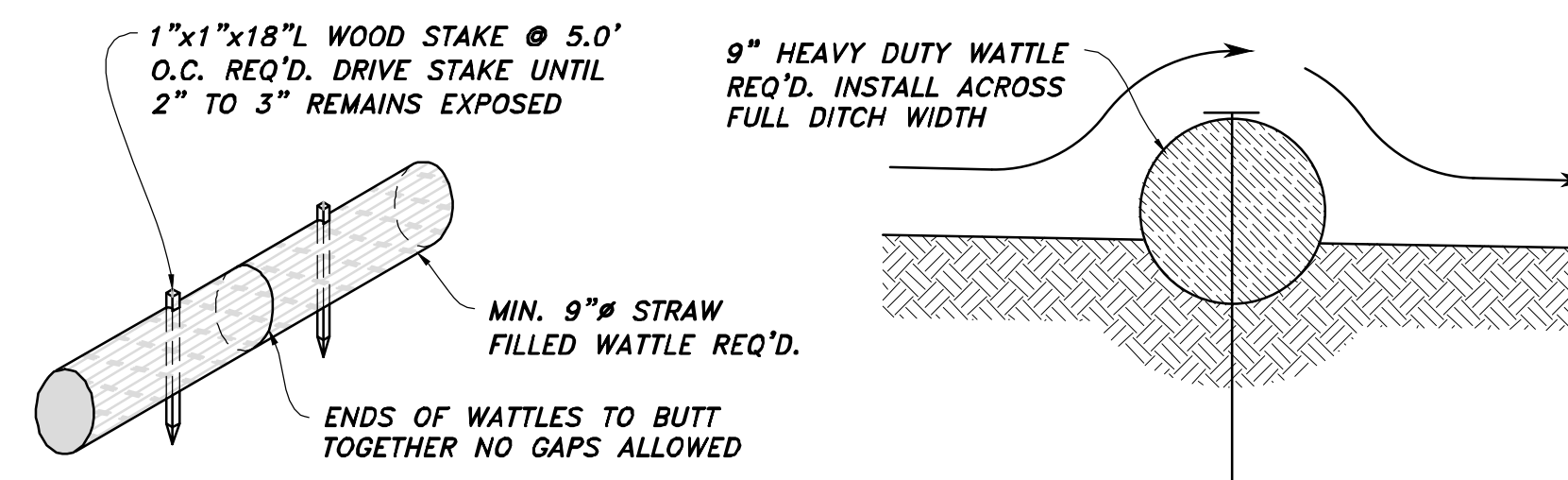


CONCRETE WASHOUT AREA

NOT TO SCALE

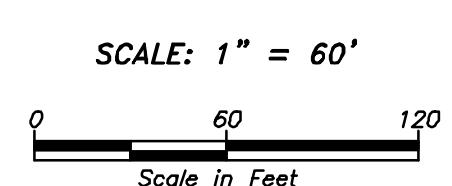
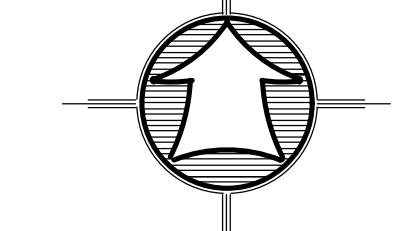
CONCRETE WASHOUT AREA NOTES:

- 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

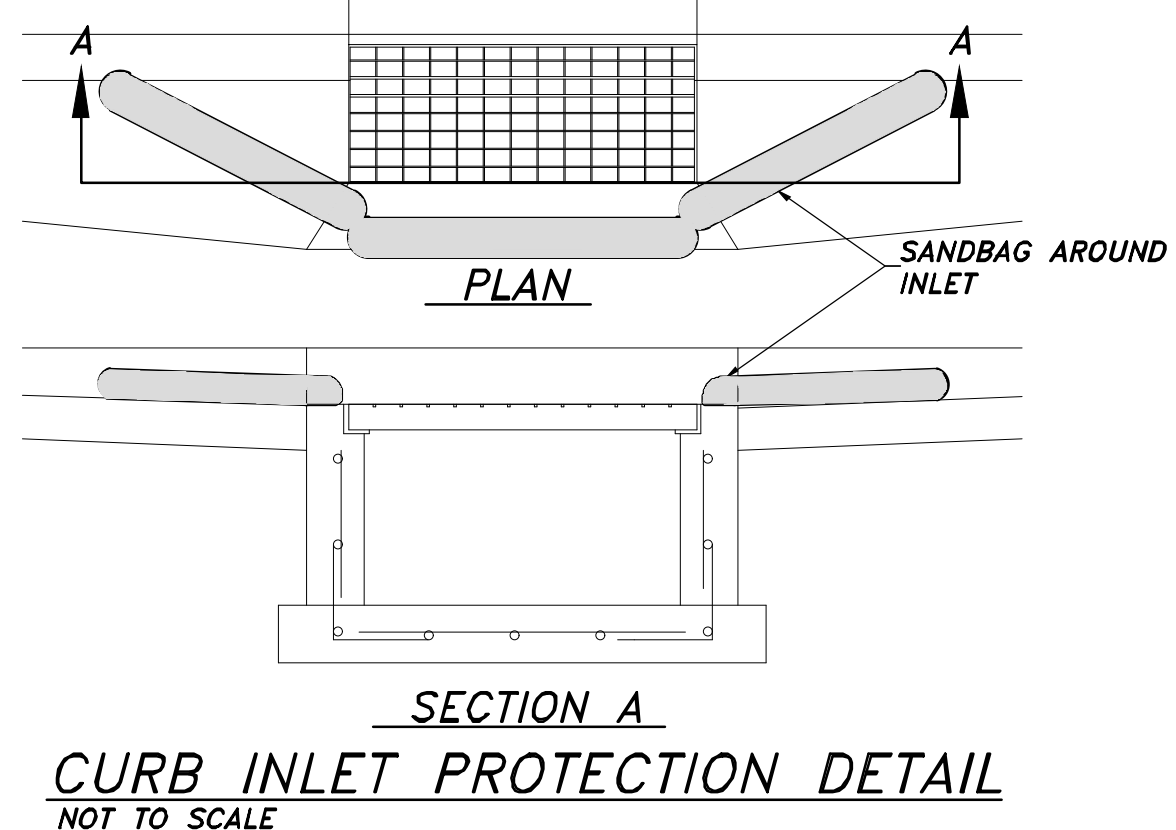
NOT TO SCALE



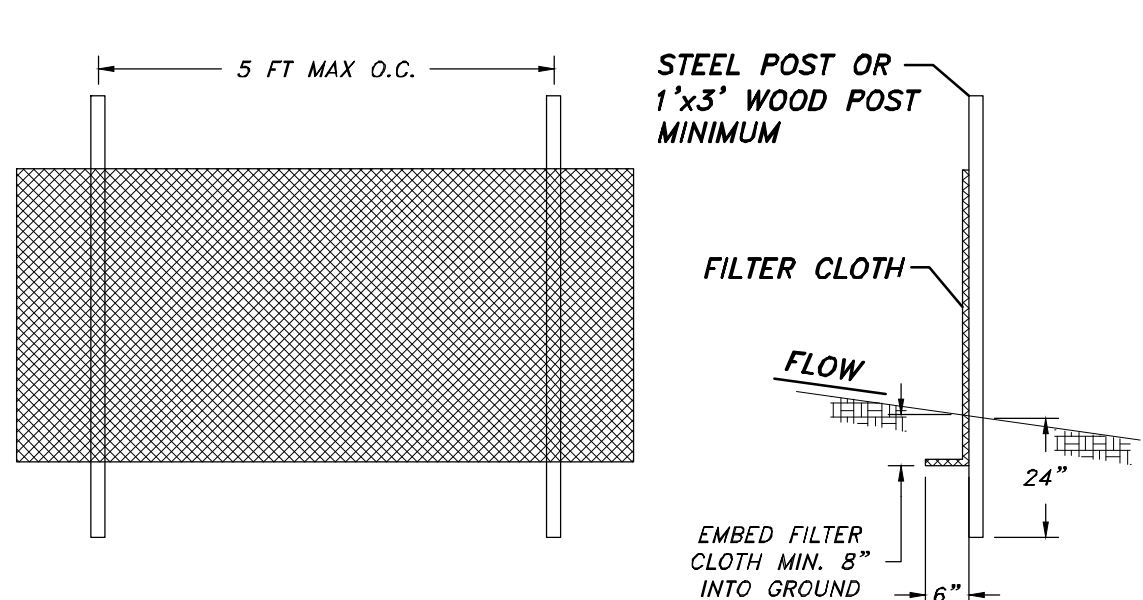
LEGEND

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

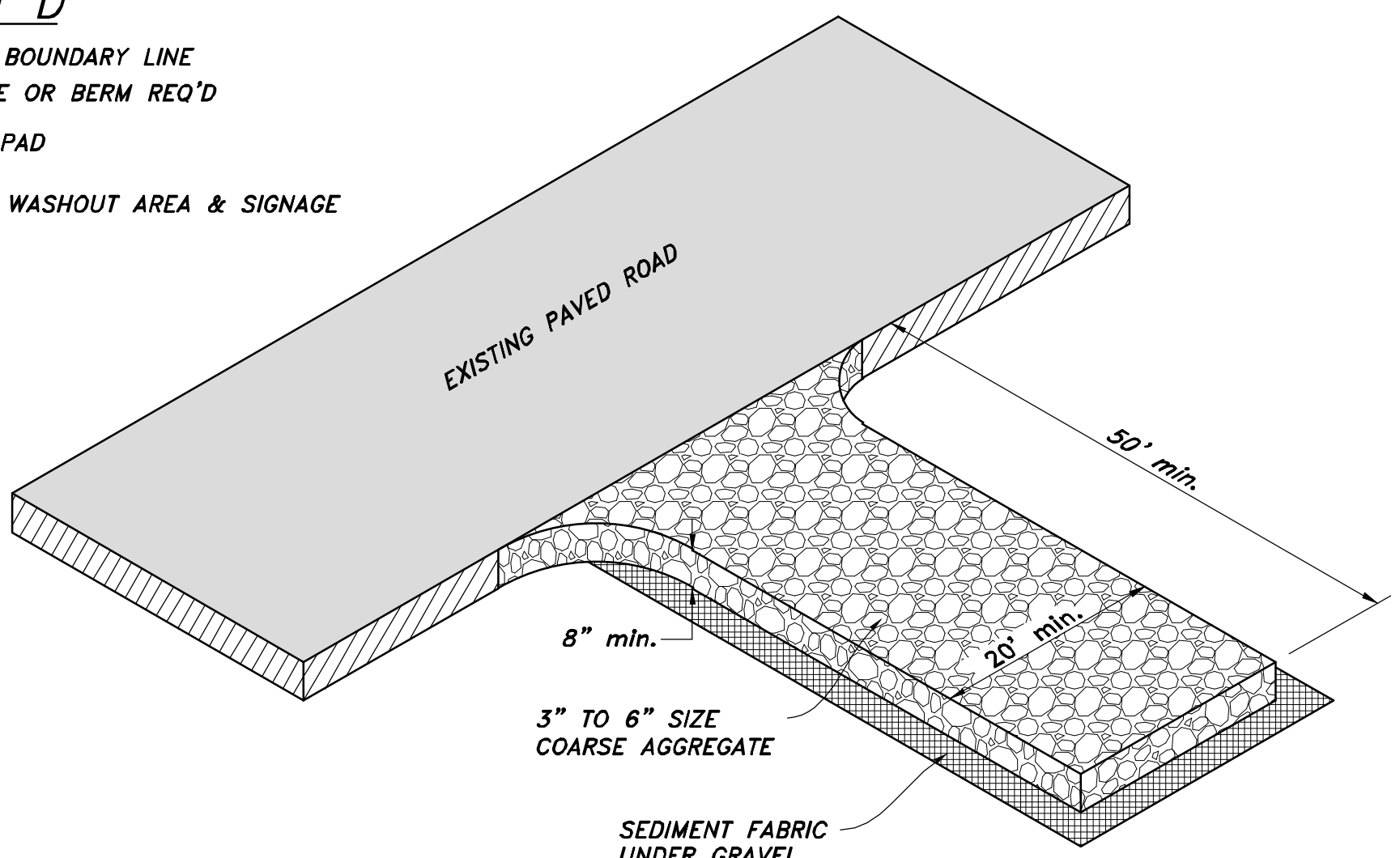
- LABELS**
- (SF) - SILT FENCE OR BERM
 - (SCE) - STABILIZATION CONSTRUCTION ENTRANCE
 - (IP) - INLET PROTECTION
- QUANTITIES**
- SILT FENCE/BERM - 760 LF
 - STABILIZED CONSTRUCTION ENTRANCE - 1
 - INLET PROTECTION - 9



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:**
- CLEAR AND GRUB AREA AND GRADE TO PROVIDE MAXIMUM SLOPE OF 2%.
 - COMPACT SUBGRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS)
 - PLACE COARSE AGGREGATE, 3" TO 6" IN SIZE, TO A MINIMUM DEPTH OF 8".
- LIMITATIONS:**
- REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONES.
 - SHOULD BE USED IN CONJUNCTION WITH STREET SWEEPING ON ADJACENT PUBLIC RIGHT-OF-WAY.
- MAINTENANCE:**
- INSPECT DAILY FOR LOSS OF GRAVEL OR SEDIMENT BUILDUP.
 - INSPECT ADJACENT ROADWAY FOR SEDIMENT DEPOSIT AND CLEAN BY SWEEPING OR SHOVELING.
 - REPAIR ENTRANCE AND REPLACE GRAVEL AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.
 - EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND PREVENT EROSION AT DRIVEWAYS.

Drawn By: MTH	Date: 07/17/18
Designed By:	
Checked By:	
Approved By:	
Scale: 1" = 50'	
Drawing File: 16-10518(07-02-18)	
JOB NUMBER: 16-105	

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

HAI

SUN CREST MEADOWS SUBDIVISION PHASE 1

SWPPP FOR
2550 NORTH 4900 WEST
TAYLOR, UT 84401

Sheet	12
of	12
Sheets	