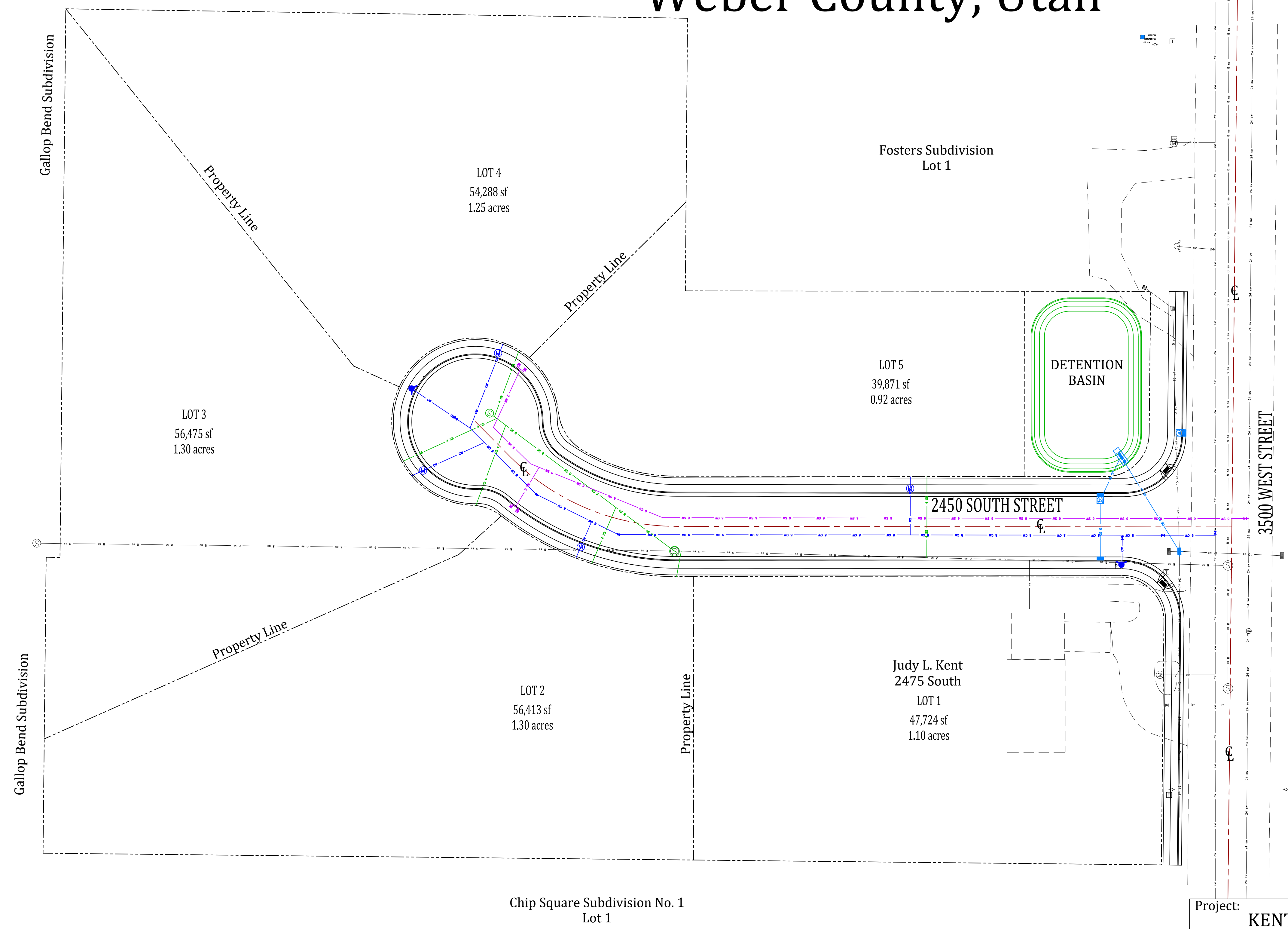
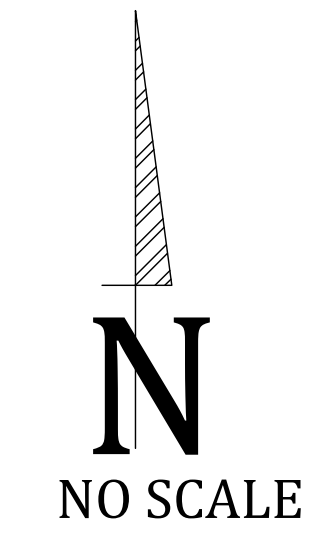


# KENT SUBDIVISION IMPROVEMENT DRAWINGS

## Weber County, Utah



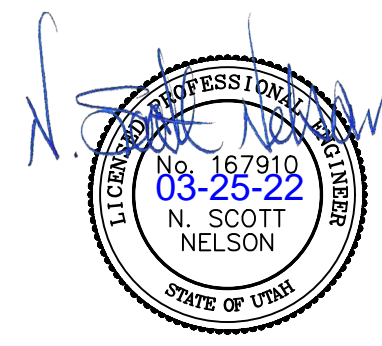
**VICINITY MAP**  
No Scale



SHEET INDEX	
1 of 20	COVER SHEET
2 of 20	NOTES
3 of 21	SITE PLAN
4 of 20	SANITARY SEWER IMPROVEMENTS
5 of 20	CULINARY WATER IMPROVEMENTS
6 of 20	SECONDARY WATER IMPROVEMENTS
7 of 20	STORM DRAIN IMPROVEMENTS
8 of 20	GRADING PLAN
9 of 20	2450 SOUTH STREET PLAN & PROFILE: STA 0+00 - 3+50
10 of 20	2450 SOUTH STREET PLAN & PROFILE: STA 3+50 - 5+00
11 of 20	3500 WEST STREET PLAN & PROFILE: STA 100+00 - 104+50
12 of 20	DETENTION POND PLAN & PROFILE: STA 200+00 - 202+00
13 of 20	DETAILS: ROAD CROSS-SECTIONS
14 of 20	DETAILS: ROADS
15 of 20	DETAILS: TRENCHING
16 of 20	DETAILS: SANITARY SEWER
17 of 20	DETAILS: CULINARY WATER
18 of 20	DETAILS: CULINARY WATER & STORM DRAIN
19 of 20	DETAILS: STORM DRAIN
20 of 20	DETAILS: DETENTION POND INLET/OUTLET STRUCTURE

**Developer:**  
**Judy Kent**  
**Contact:**  
**Tony Kent: 385-502-1184**

**Approved for Construction**  
\_\_\_\_\_  
**Weber City Engineer**  
**Date:** \_\_\_\_\_



**Project:**  
**KENT SUBDIVISION NO. 2  
IMPROVEMENT DRAWINGS  
WEBER COUNTY, UTAH**

**Title:**  
**COVER SHEET**

**Date:**  
25 MARCH 2022

**Prepared By:**  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

#	Date	Revision:

**ABBREVIATIONS USED IN DRAWINGS**

adj	adjust	dwg	drawing	hp	high point	pr	proposed	tbc	top back of curb
arv	air release valve	elec	electrical	in	inch	prc	point of reverse curve	tele	telephone
bw	back of walk	eg	existing grade	inv	invert	prv	pressure reducing valve	toa	top of asphalt
bvce	beginning vertical curve elev.	elev	elevation	irr	irrigation	pt	point of tangency	toe	toe of slope
bvcs	beginning vertical curve station	eoc	edge of concrete	lf	linear foot	pue	public utility easement	top	top of slope
bw	both ways	ep	edge of pavement	lip	lip of curb	pvc	polyvinyl chloride pipe	tow	top of wall
cb	catch basin	evce	end vertical curve elev.	lt	left	r	radius	tow	top of walk
chord	chord bearing	evcs	end vertical curve station	max	maximum	rc	rebar & cap	typ	typical
cl	centerline	ew	each way	mh	manhole	row	right of way	w	water
cmp	corrugated metal pipe	exist	existing	min	minimum	rt	right	wm	water meter
co	clean out	ff	finished floor elevation	mon	monument	sd	storm drain	wmh	water manhole
conc	concrete	fg	finished grade	nts	not to scale	sec cor	section corner	wv	water valve
conc	concrete	fh	fire hydrant	oc	on center	ser	south end radius		
cw	culinary water	fl	flow line	ohp	over head power	ss	sanitary sewer		
da	delta angle	fo	fiber optic	pc	point of curvature	ssmh	sanitary sewer manhole		
det	detail	ft	foot	pi	point of intersection	sta	station		
dia	diameter	gb	grade break	pl	property line	std	standard		
dip	ductile iron pipe	hdpe	high density poly ethylene	pp	power pole	sw	secondary water		

**UTILITY CONTACTS**

<p><u>TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT</u>                  2815 WEST 3300 SOUTH                  WEST HAVEN, UT 84401                  (801) 731-1668                  RYAN ROGERS, GENERAL MANAGER</p>	<p><u>WEBER COUNTY ENGINEERING DEPARTMENT</u>                  2380 WASHINGTON BLVD                  SUITE 240                  OGDEN, UT 84401                  (801) 399-8374</p>
<p><u>HOOPER IRRIGATION COMPANY</u>                  5375 SOUTH 5500 WEST                  HOOPER, UT 84315                  (801) 388-3956                  DENNIS FLINDERS, SECONDARY WATER MANAGER</p>	<p><u>WEBER COUNTY FIRE DISTRICT</u>                  2023 WEST 1300 NORTH                  FARR WEST, UT 84404                  (801) 782-3580                  BRANDON J. THUESON, FIRE MARSHAL</p>
<p><u>CENTRAL WEBER SEWER DISTRICT</u>                  2618 WEST PIONEER ROAD                  OGDEN, UT 84404                  (801) 731-3011</p>	<p><u>ROCKY MOUNTAIN POWER</u>                  1438 WEST 2550 SOUTH                  OGDEN, UT 84401                  (866) 221-7070</p>

**GENERAL CONSTRUCTION NOTES**

- The utilities shown on the drawings are for informational purposes only. The contractor shall locate all underground utilities, contact blue stakes and other applicable utilities prior to laying pipe within 200 feet of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked". The contractor shall coordinate with the utility company to move the utility if necessary. The contractor shall not modify grade of project lines in order to go over and around existing utilities. The contractor shall pothole for the location of utilities prior to excavation.
- The contractor shall review and verify all dimensions shown on the drawings.
- The contractor shall be responsible to provide appropriate signing and barricading. All flagging, signage and barricades and all traffic control required shall be in compliance with the current "manual on uniform traffic control devices".
- All public and private roadways must be cleaned daily, or as often as required, of all loose dirt, mud, gravel and all debris as a result of the construction work. This requirement shall apply continuously throughout the duration of the project and shall not be limited to normal construction working hours.

- All dust on project site shall be controlled by sweeping and watering the construction area.
- The contractor shall be completely responsible for the job site conditions during the course of construction, including safety of all persons and adjoining property. This requirement shall apply continuously throughout the duration of the project and not be limited to normal construction working hours.
- Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify project engineer of any discrepancies or conflicts prior to any connections being made.
- The contractor shall be responsible for meeting all of the requirements established for safe trenching. (See OSHA and UOSHA requirements, latest editions).
- Specific information provided in the contract documents shall supersede items covered in these drawings.
- The contractor shall contact and coordinate all utility connections with the utility owner.
- All construction to comply with specifications contained herein and with local City, County and State standards and specifications.

**CAUTION NOTICE TO CONTRACTOR**

The contractor is herewith instructed that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information shown is not to be relied on as being exact or complete. The contractor is required to call the appropriate utility company as least 48 hours before any excavation to request exact field location of utilities. Is the sole responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the drawings.

The contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property. This requirement shall apply continuously and not be limited to the normal working hours; and the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from sole negligence of the owner or the engineer.

**LEGEND AND SYMBOLS**

Centerline of road	Culinary water manhole & pipe	Fire hydrant
Contour line	Fiber optic box & line	Storm drain catch basin
Curb & gutter	Gas manhole & line	Street sign
Easement line	Irrigation manhole and pipe	Street light
Fence	Land drain manhole & pipe	Water meter
Lot line	Power pole and line	Water valve
Phase/boundary line	Sanitary sewer manhole & pipe	
Right of way line	Storm drain manhole & pipe	
Section corner & line	Telephone pedestal & line	

\*Note: All existing features will be in a shaded line

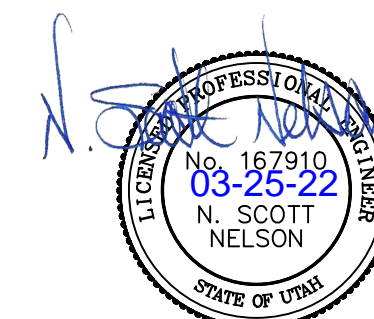
**CULINARY WATER NOTE:**  
 All culinary water facilities shall meet the requirements of the Taylor-West Weber Water Improvement District. Standard Details and Construction Specifications are available upon request to [taylorwestweberwater@msn.com](mailto:taylorwestweberwater@msn.com) or 801.731.1668. The District shall be notified at least 24 hours prior to any preconstruction meetings or construction activity.

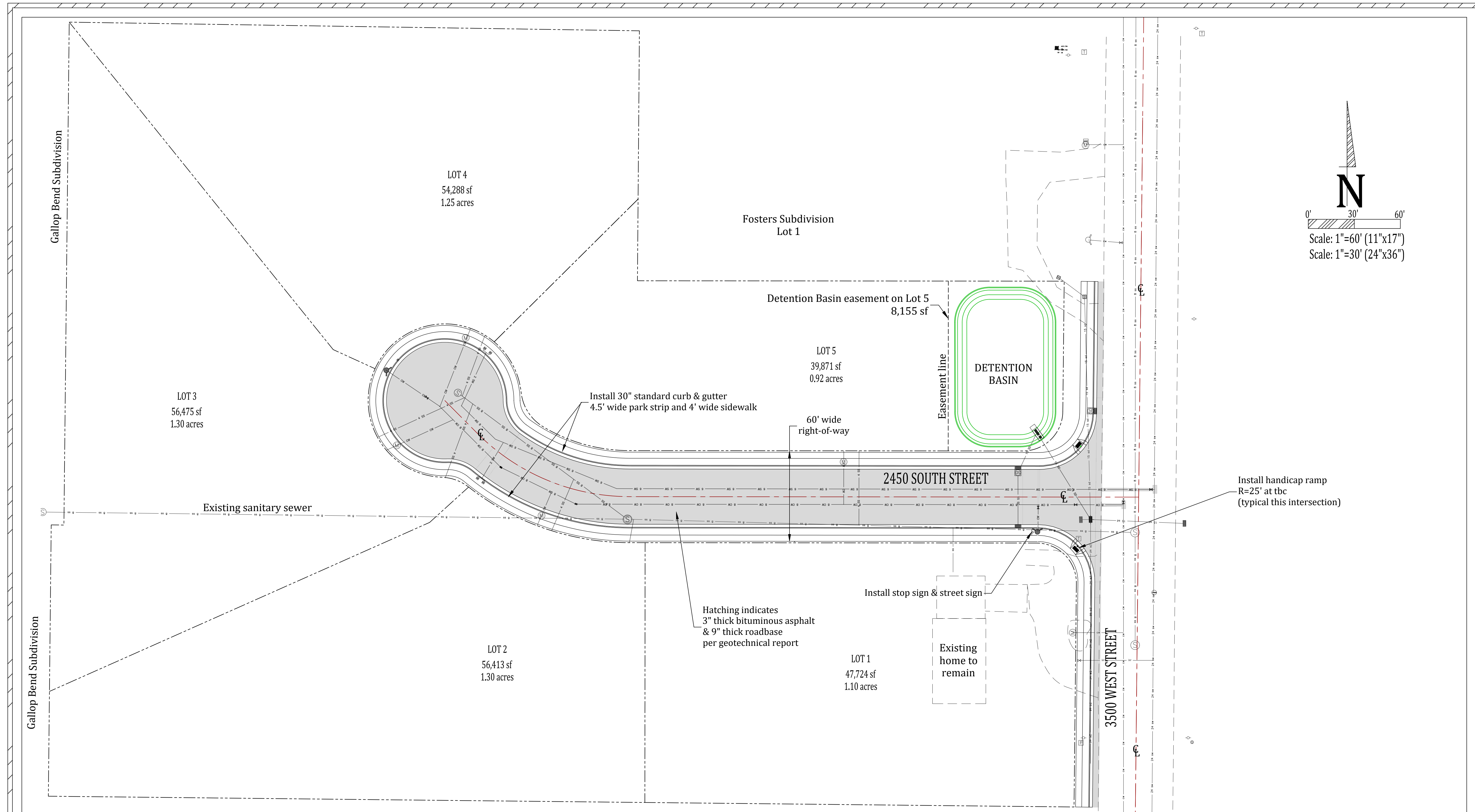
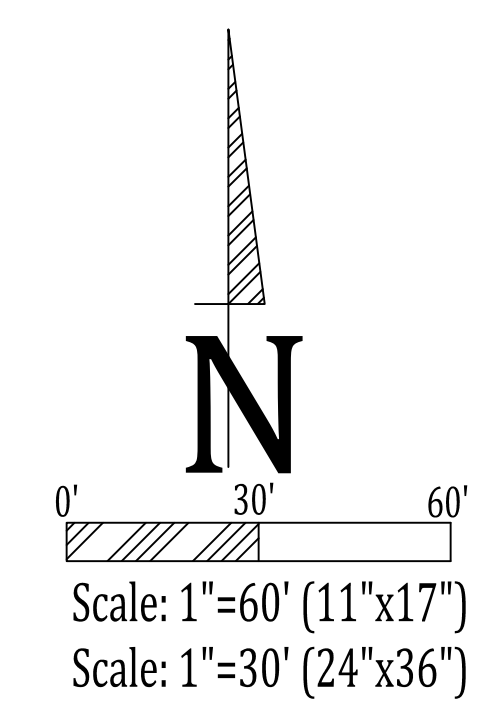
**CALL BEFORE YOU DIG.**  
 IT'S FREE & IT'S THE LAW.  
 (TOLL FREE) **1-800-662-4111**  
**BLUE STAKES OF UTAH**  
 UTILITY NOTIFICATION CENTER, INC.  
[www.bluestakes.org](http://www.bluestakes.org)

Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_

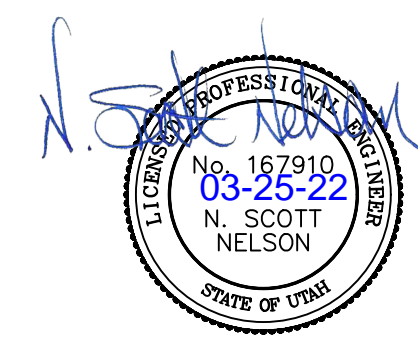
Project: <b>KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH</b>	Prepared By: <b>Summers Engineering Collective</b> - Jen Summers - Summers.eng.collective@gmail.com
Title: <b>NOTES</b>	#   Date:   Revision:
Date: 25 MARCH 2022	Sheet 2 of 20





Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_

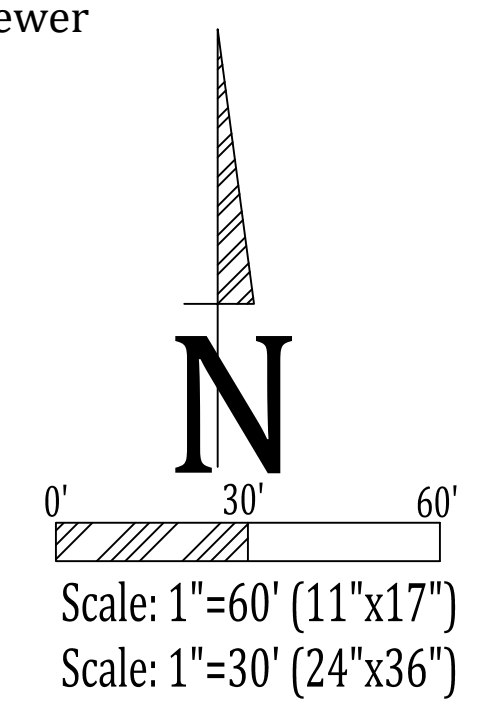
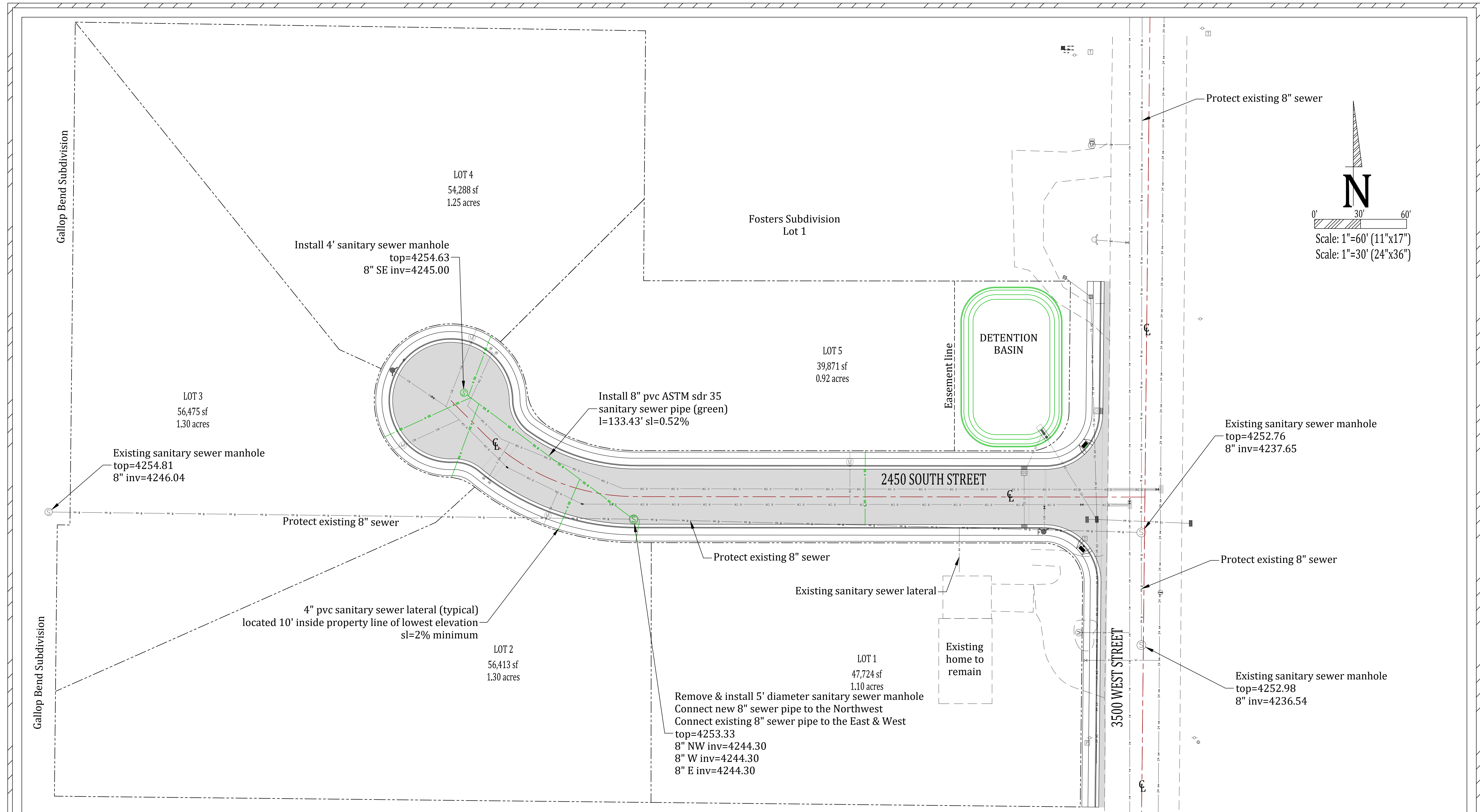


Project: **KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH**  
 Title: **SITE PLAN**  
 Date: **25 MARCH 2022**

Prepared By: **Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date	Revision:

Sheet 3 of 20



Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_



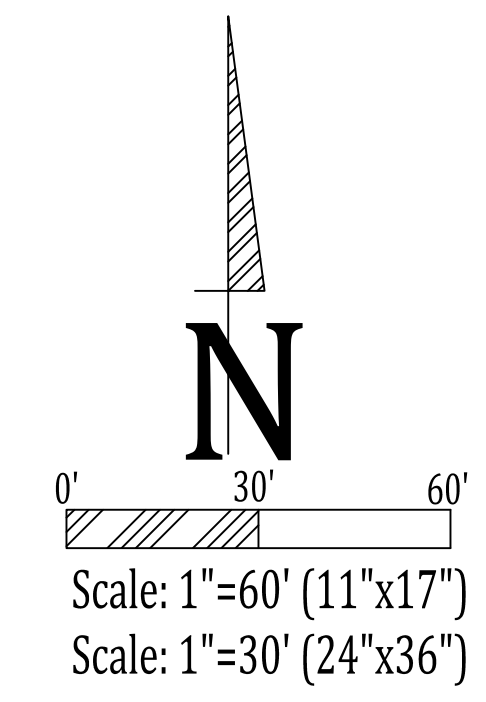
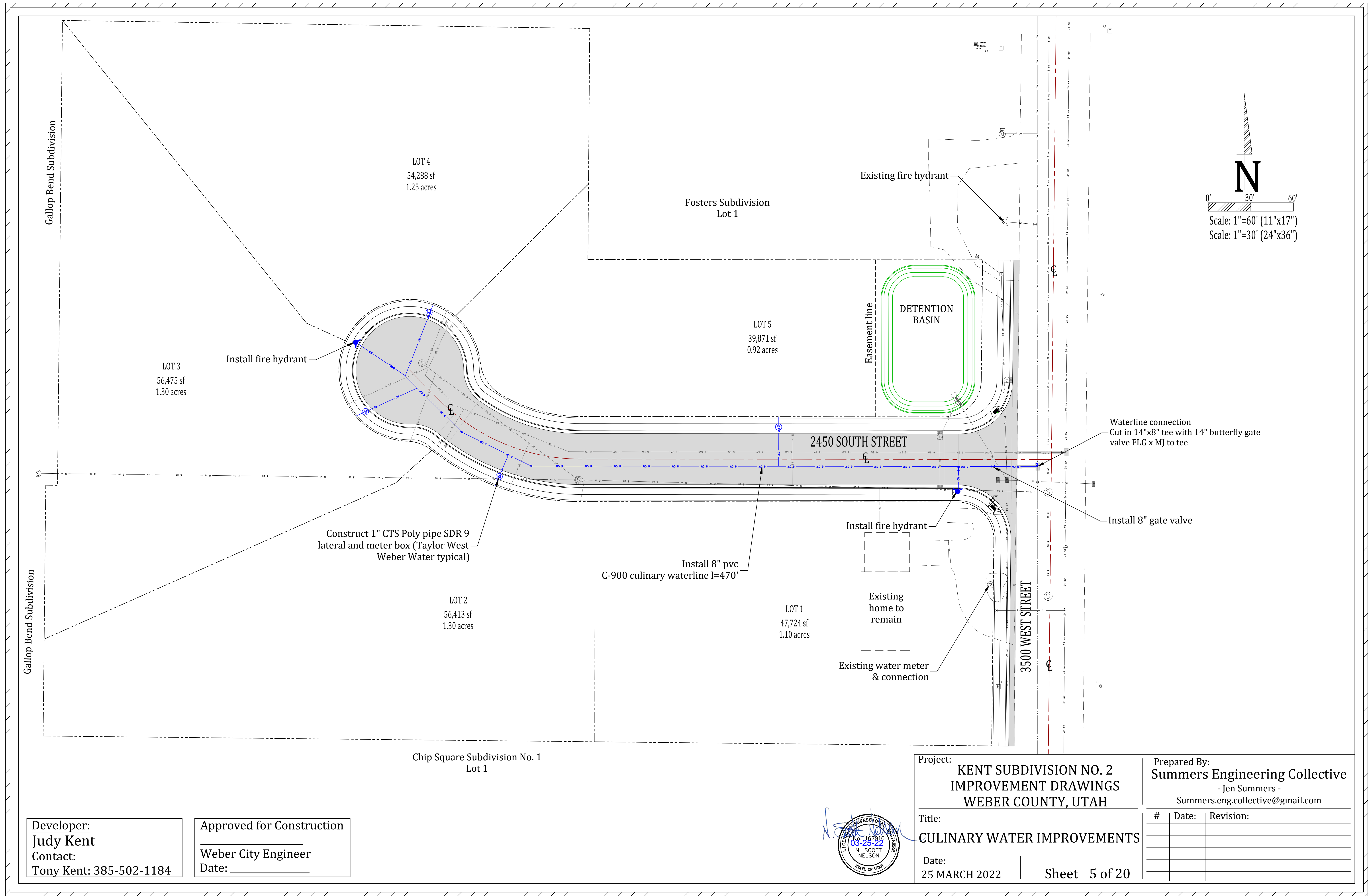
Project:  
**KENT SUBDIVISION NO. 2  
 IMPROVEMENT DRAWINGS  
 WEBER COUNTY, UTAH**

Title:  
**SANITARY SEWER IMPROVEMENTS**

Date:  
 25 MARCH 2022

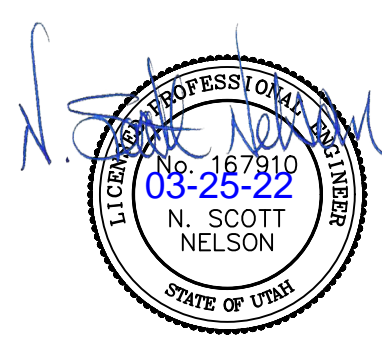
Prepared By:  
**Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date	Revision:



Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_



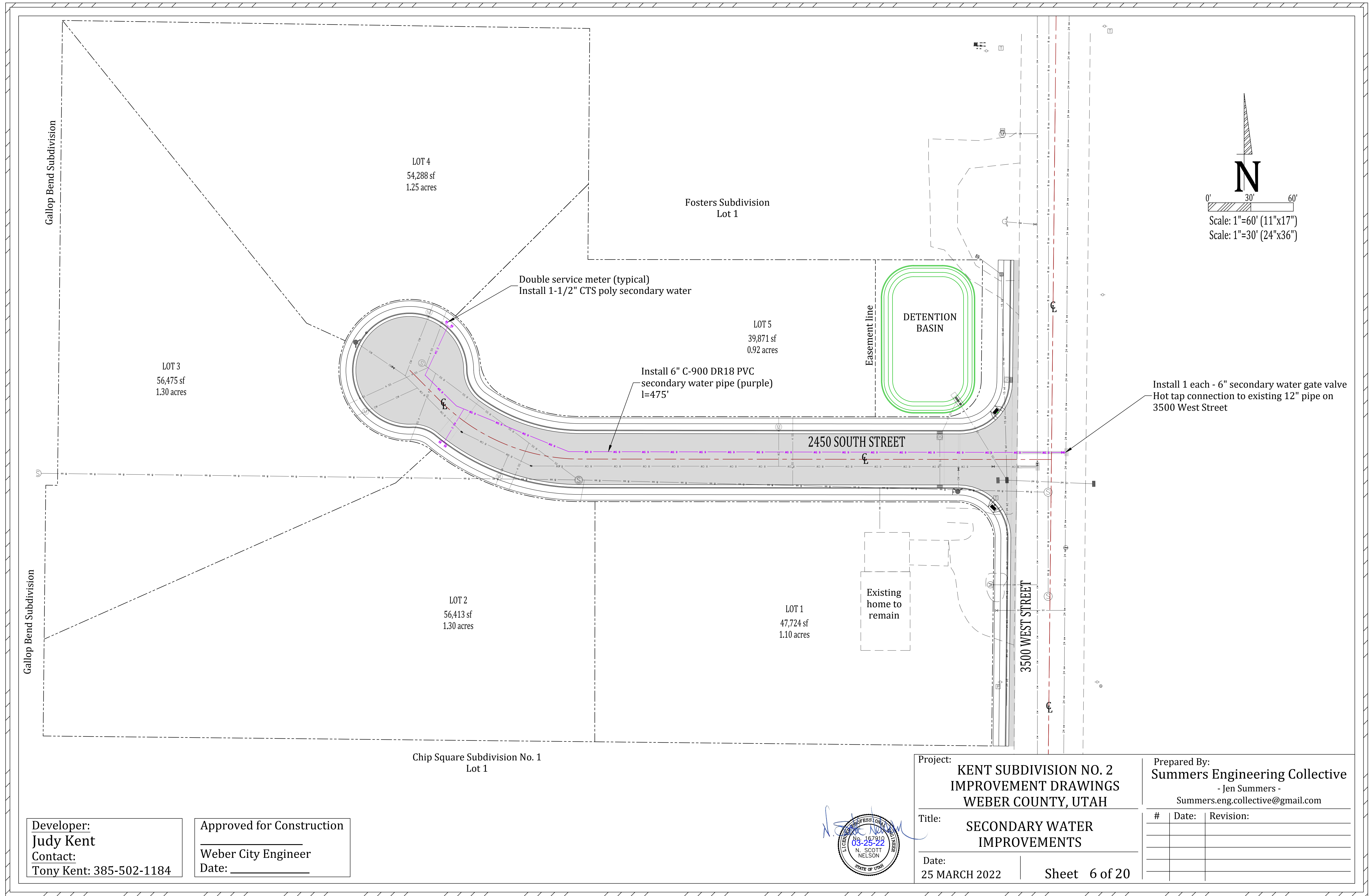
Project:  
**KENT SUBDIVISION NO. 2  
 IMPROVEMENT DRAWINGS  
 WEBER COUNTY, UTAH**

Title:  
**CULINARY WATER IMPROVEMENTS**

Date:  
 25 MARCH 2022

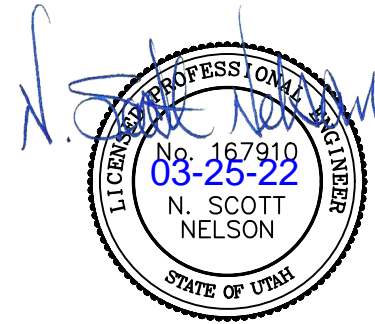
Prepared By:  
**Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date	Revision:



Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_



Project:  
**KENT SUBDIVISION NO. 2  
IMPROVEMENT DRAWINGS  
WEBER COUNTY, UTAH**

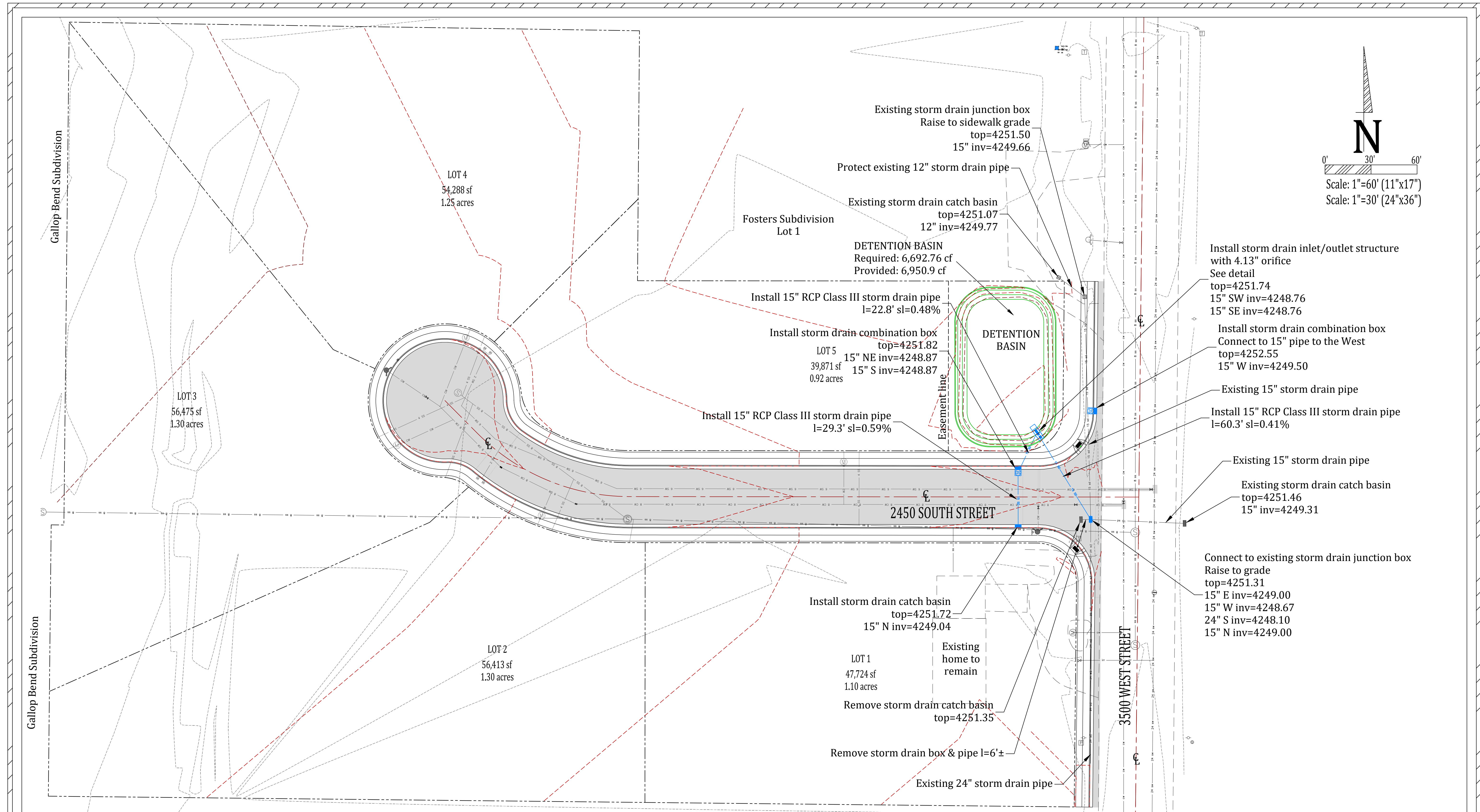
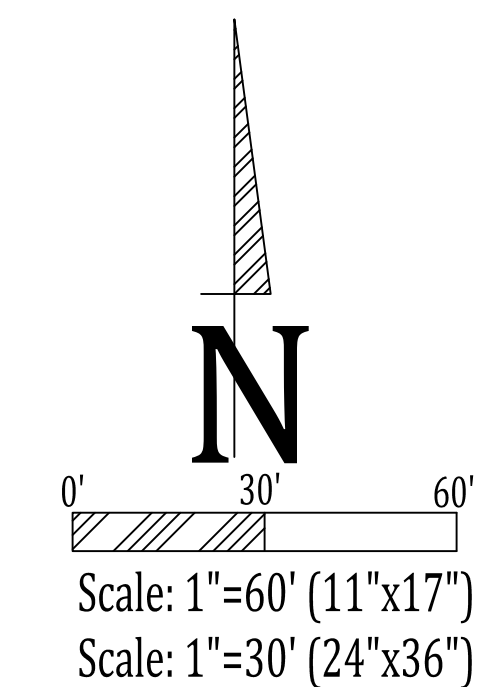
Title:  
**SECONDARY WATER  
IMPROVEMENTS**

Date:  
25 MARCH 2022

Sheet 6 of 20

Prepared By:  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

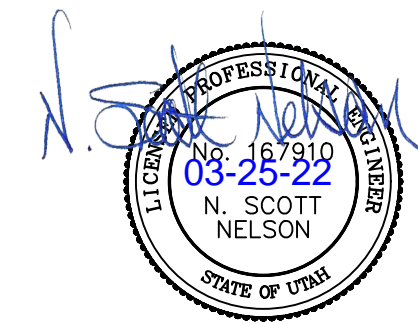
#	Date	Revision:



Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_

Chip Square Subdivision No. 1  
 Lot 1



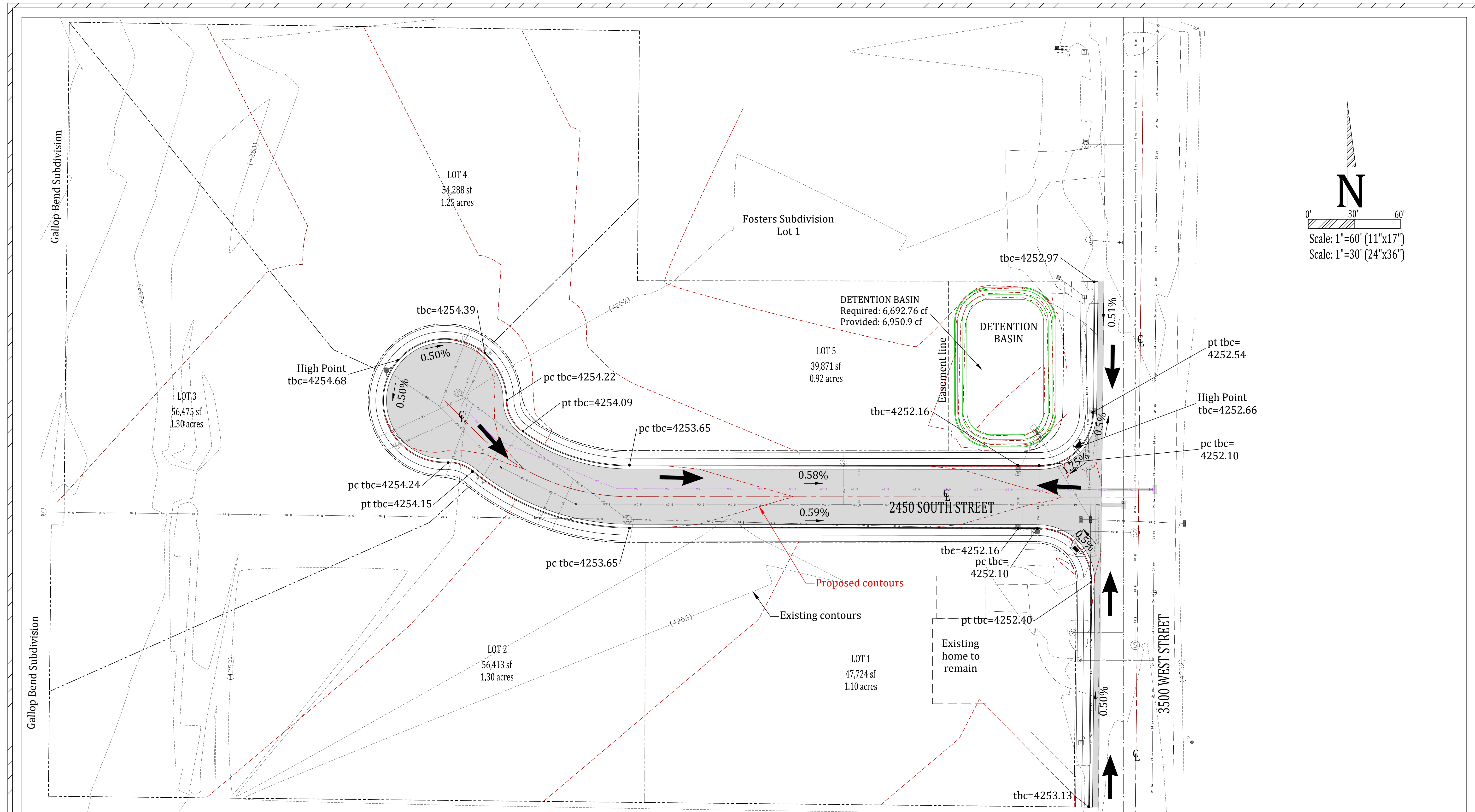
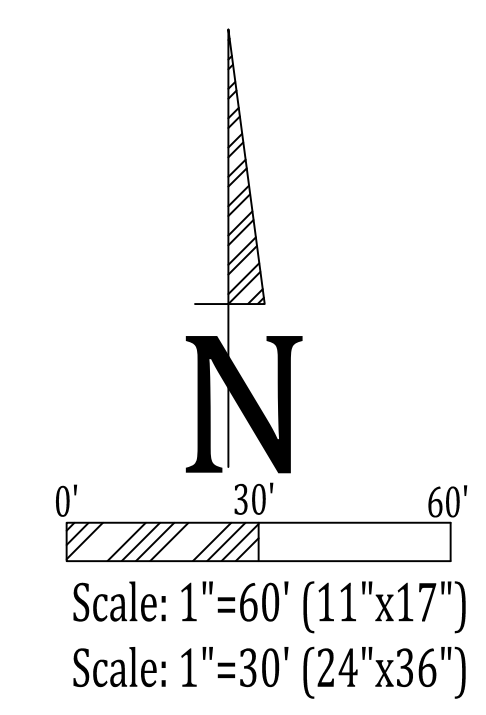
Project:  
**KENT SUBDIVISION NO. 2  
 IMPROVEMENT DRAWINGS  
 WEBER COUNTY, UTAH**

Title:  
**STORM DRAIN  
 IMPROVEMENTS**

Date:  
 25 MARCH 2022 | Sheet 7 of 20

Prepared By:  
**Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date:	Revision:



Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_



Project:  
**KENT SUBDIVISION NO. 2  
 IMPROVEMENT DRAWINGS  
 WEBER COUNTY, UTAH**

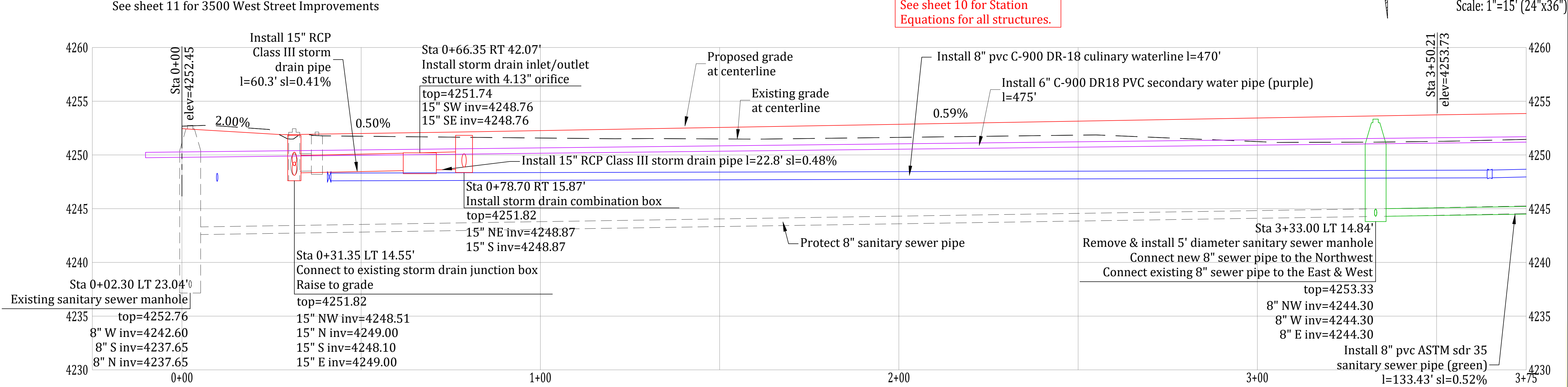
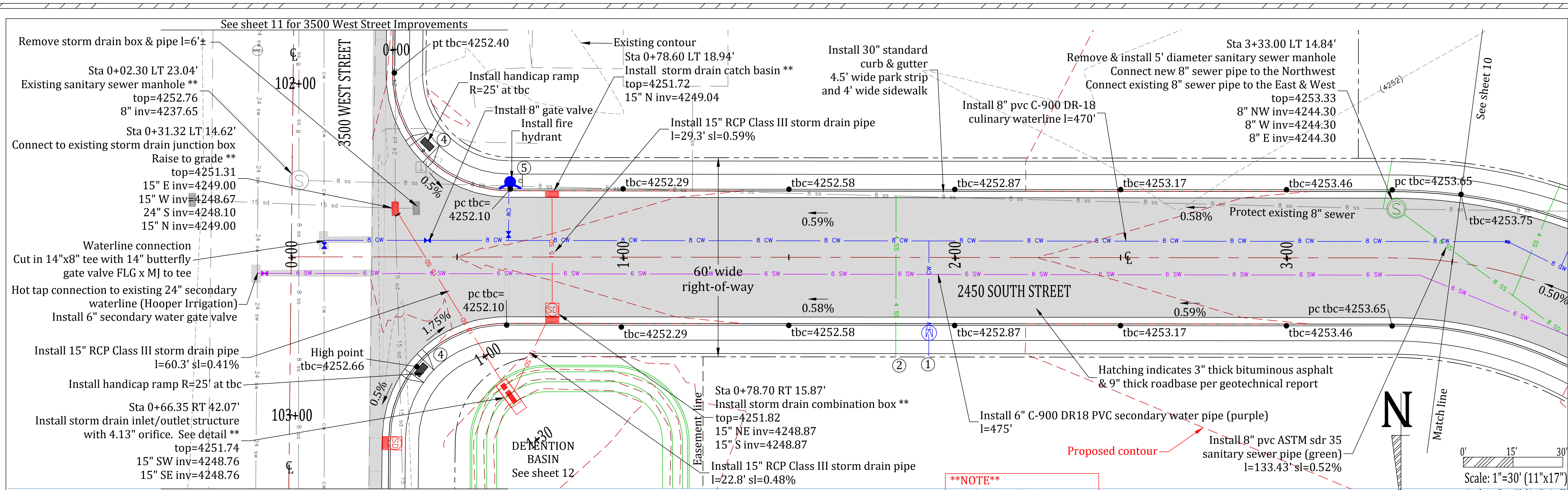
Title:  
**GRADING PLAN**

Date:  
 25 MARCH 2022

Prepared By:  
**Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date	Revision:



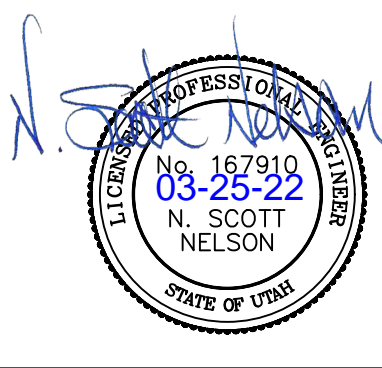


**CONSTRUCTION NOTES:**

- Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
- Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum. Contractor to install lateral 10' inside property line of lowest elevation.
- Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
- All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
- All fire hydrants shall meet Taylor West Weber Improvement District Standards.

Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_



Project:  
**KENT SUBDIVISION NO. 2  
 IMPROVEMENT DRAWINGS  
 WEBER COUNTY, UTAH**

Title:  
**2450 SOUTH STREET  
 PLAN & PROFILE: STA 0+00 - 3+50**

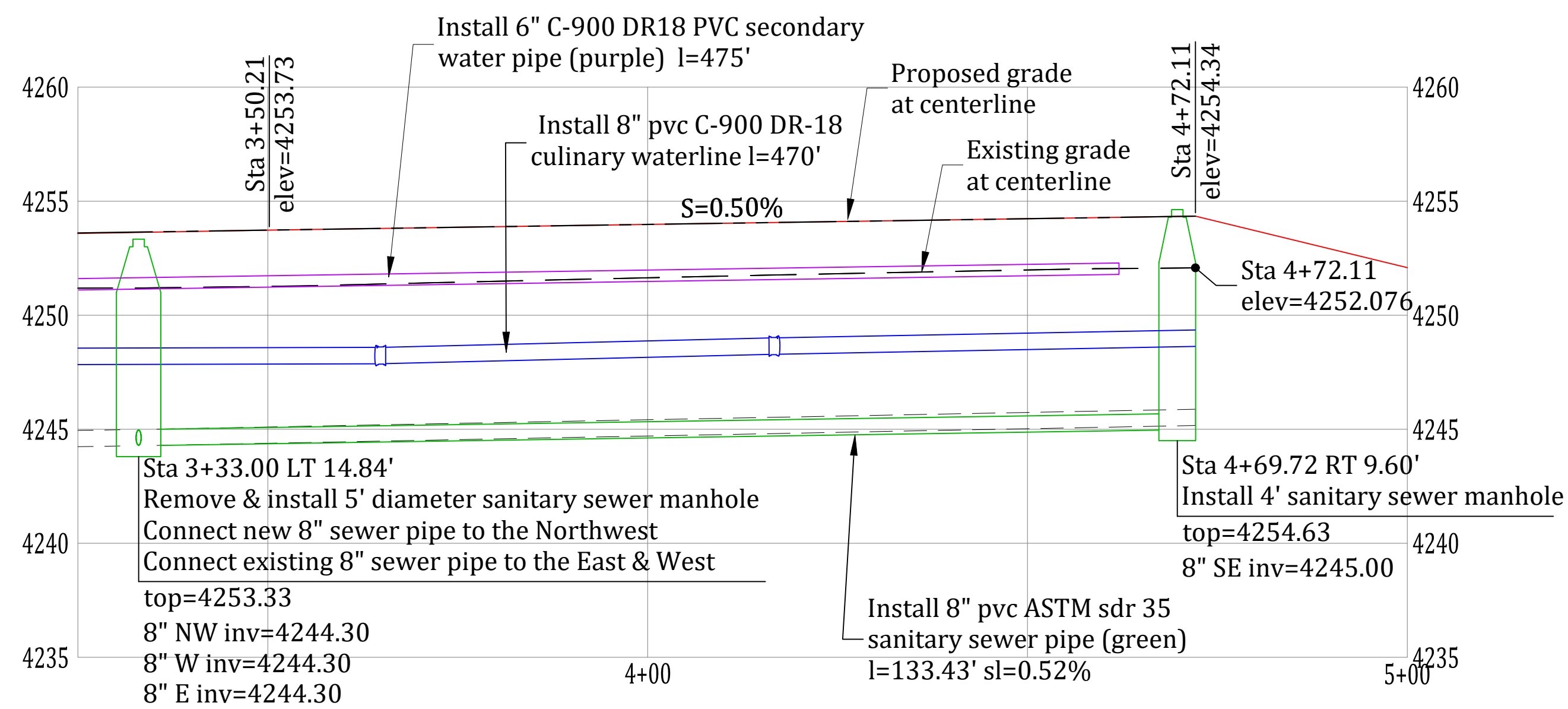
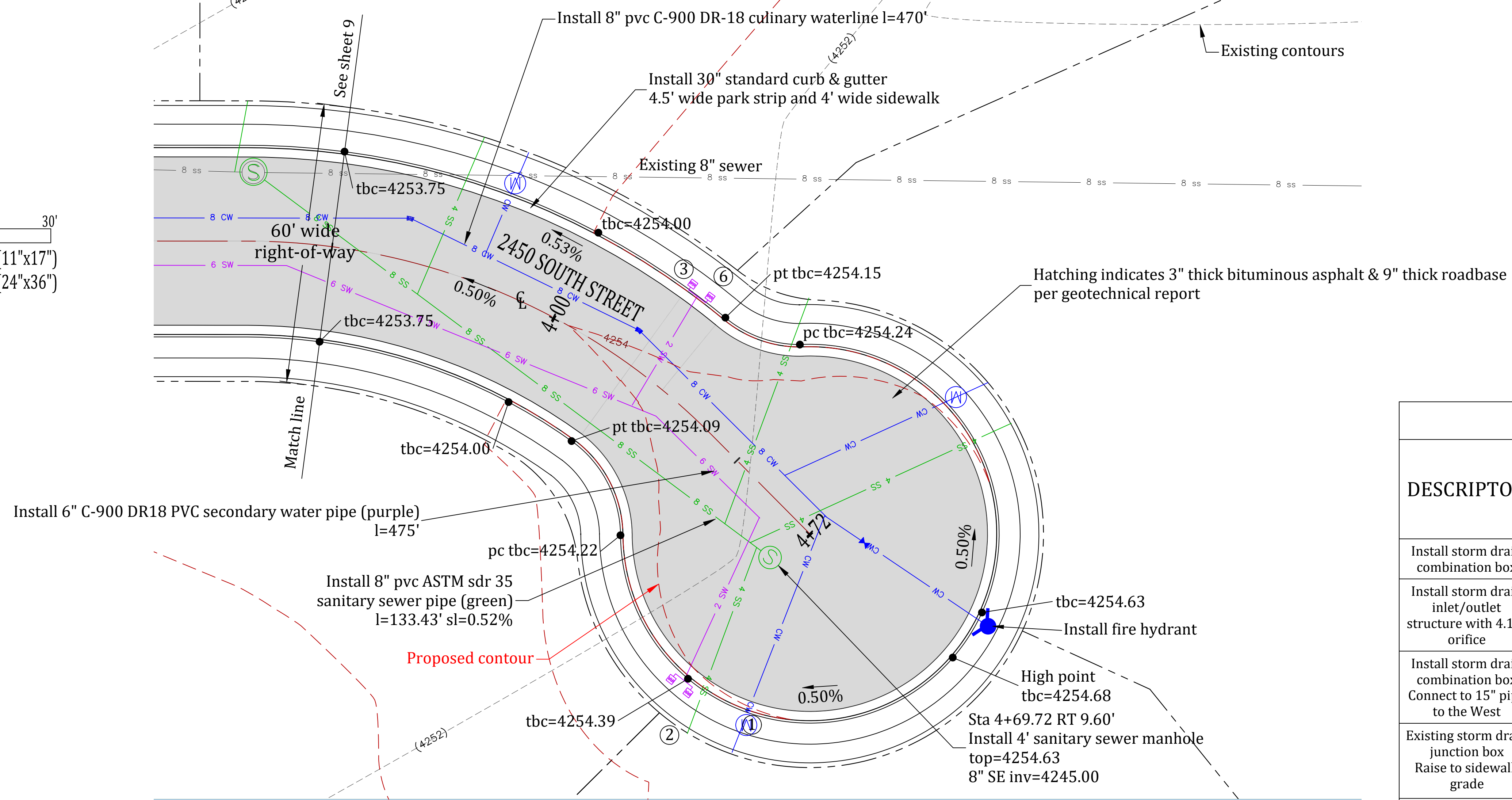
Date:  
 25 MARCH 2022

Prepared By:  
**Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date:	Revision:



Scale: 1"=30' (11"x17")  
Scale: 1"=15' (24"x36")

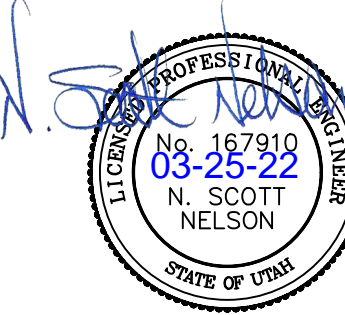


**CONSTRUCTION NOTES:**

- Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
- Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum. Contractor to install lateral 10' inside property line of lowest elevation.
- Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
- All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
- All fire hydrants shall meet Taylor West Weber Improvement District Standards.

Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

Approved for Construction  
Weber City Engineer  
Date: \_\_\_\_\_



**STATION EQUATIONS**

DESCRIPTION	2450 SOUTH STATIONING	3500 WEST STATIONING	DETENTION POND STATIONING
Install storm drain combination box	0+78.70 LT 18.94'	N/A	200+60.61 LT 0.02'
Install storm drain inlet/outlet structure with 4.13" orifice	0+66.35 RT 42.07'	N/A	200+92.51 RT 0.11'
Install storm drain combination box Connect to 15" pipe to the West	N/A	103+08.24 LT 31.94'	200+87.12 RT 37.07'
Existing storm drain junction box Raise to sidewalk grade	N/A	103+82.53 LT 36.65'	200+81.53 RT 34.86'
Connect to existing storm drain junction box Raise to grade	0+31.32 LT 14.62'	102+37.53 LT 31.21'	200+30.22 RT 47.42'
Install storm drain catch basin	0+78.60 LT 18.94'	102+32.69	200+25.80 RT 0.15'
Existing sanitary sewer manhole	0+02.30 LT 23.04'	102+29.32 LT 2.08'	

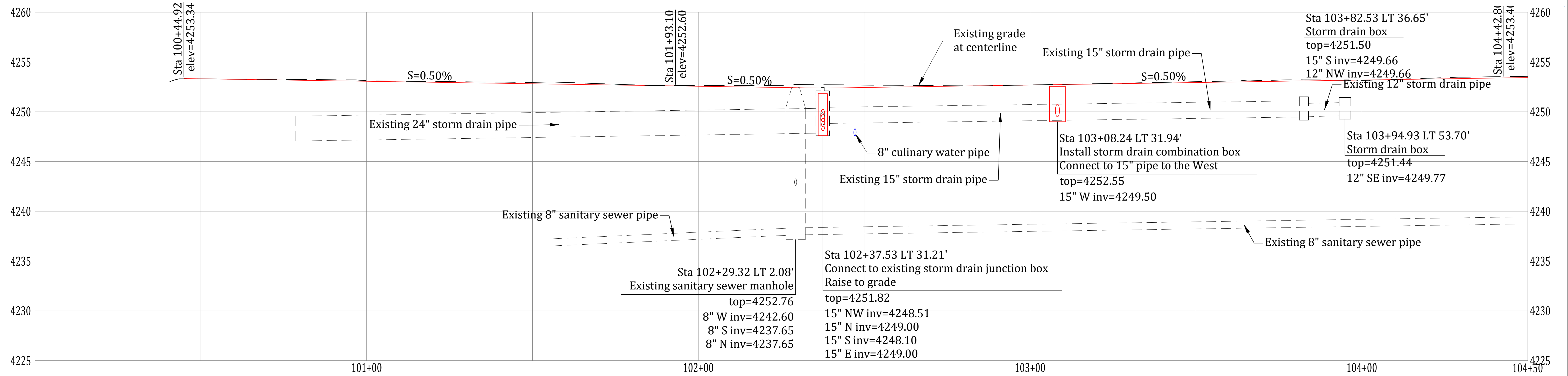
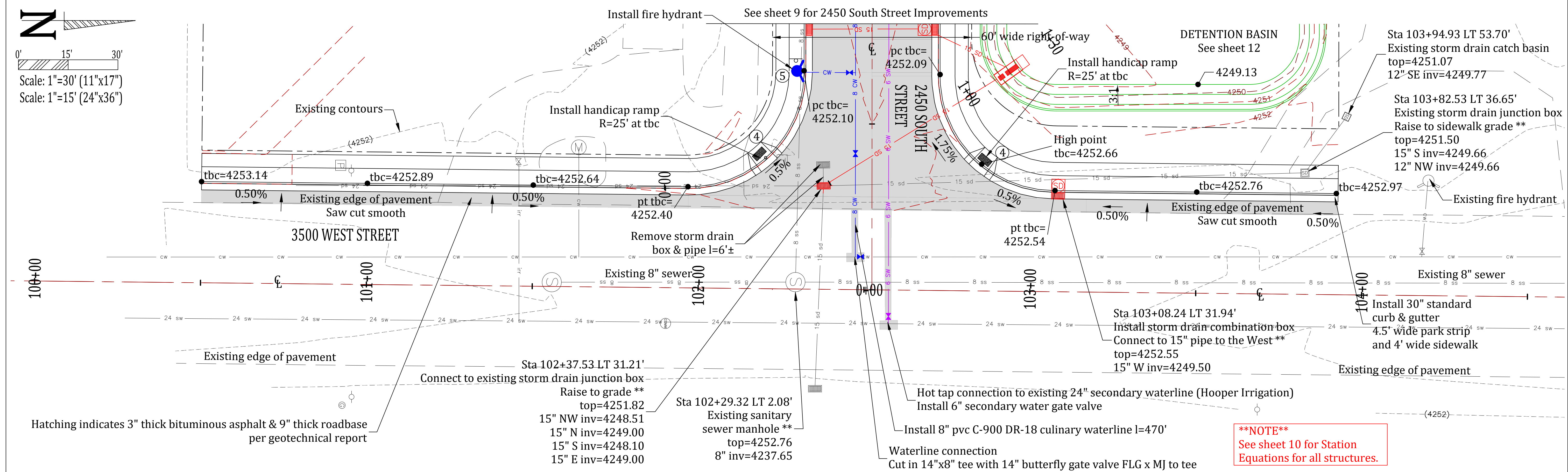
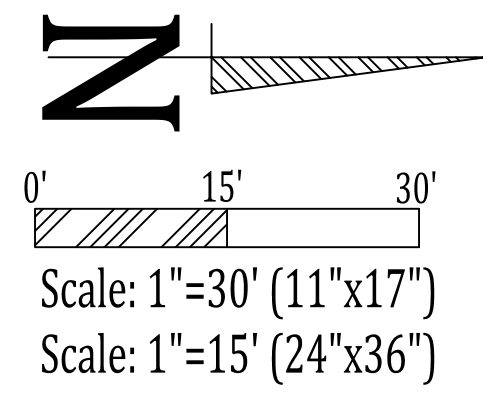
Project: **KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH**

Title: **2450 SOUTH STREET PLAN & PROFILE: STA 3+50 - 5+00**

Date: **25 MARCH 2022** | **Sheet 10 of 20**

Prepared By:  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

#	Date:	Revision:



- CONSTRUCTION NOTES:**
- Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
  - Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum. Contractor to install lateral 10' inside property line of lowest elevation.
  - Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
  - All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
  - All fire hydrants shall meet Taylor West Weber Improvement District Standards.

Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_



Project:  
**KENT SUBDIVISION NO. 2  
 IMPROVEMENT DRAWINGS  
 WEBER COUNTY, UTAH**

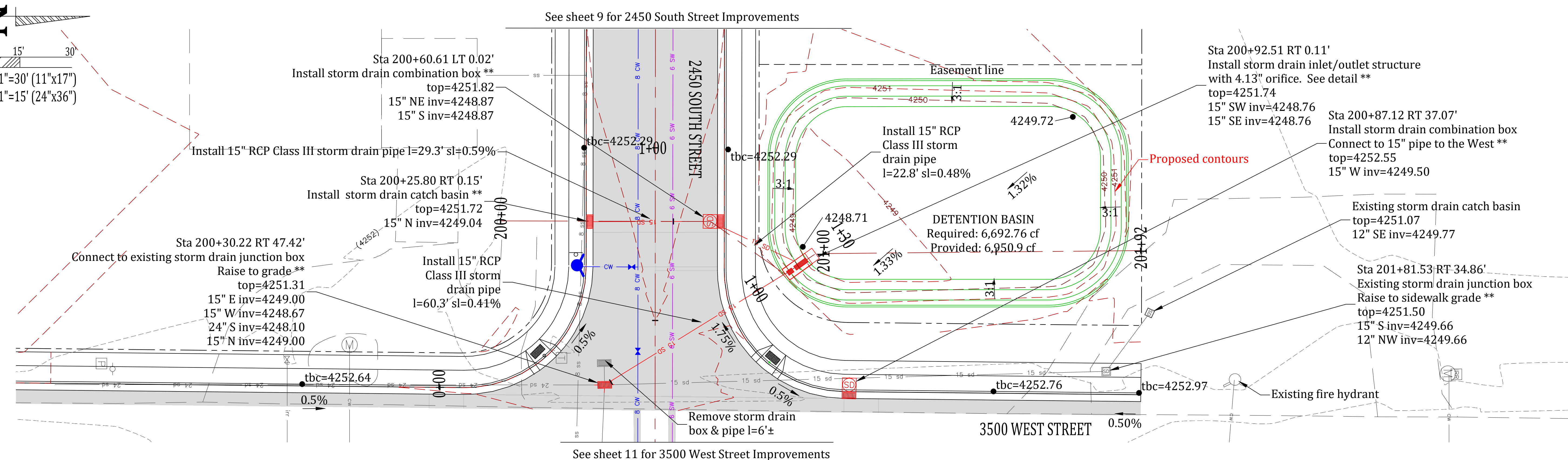
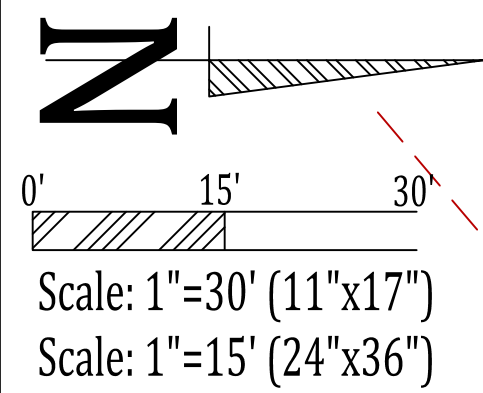
Title:  
**3500 WEST STREET  
 PLAN & PROFILE: STA 100+00 - 104+50**

Date:  
 25 MARCH 2022

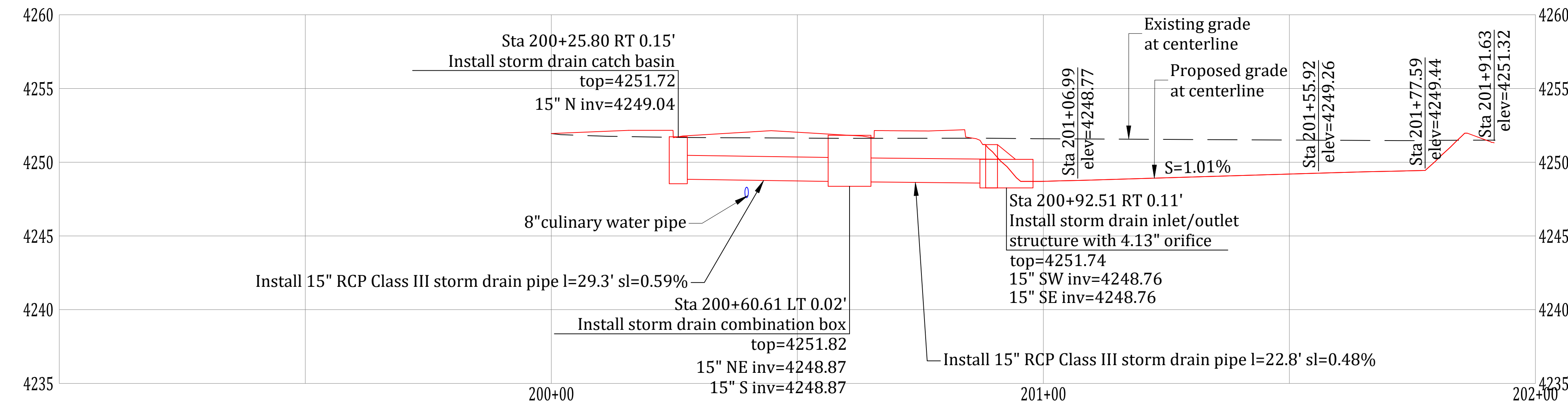
Prepared By:  
**Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date:	Revision:

**\*\*NOTE\*\***  
 See sheet 10 for Station Equations for all structures.



**\*\*NOTE\*\***  
See sheet 10 for Station Equations for all structures.

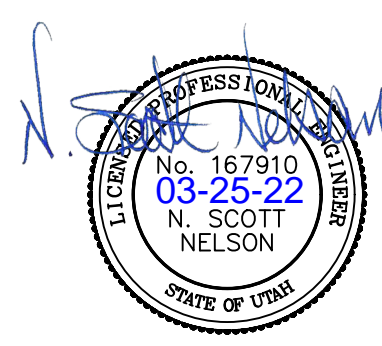


**CONSTRUCTION NOTES:**

- Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
- Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum. Contractor to install lateral 10' inside property line of lowest elevation.
- Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
- All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
- All fire hydrants shall meet Taylor West Weber Improvement District Standards.

Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

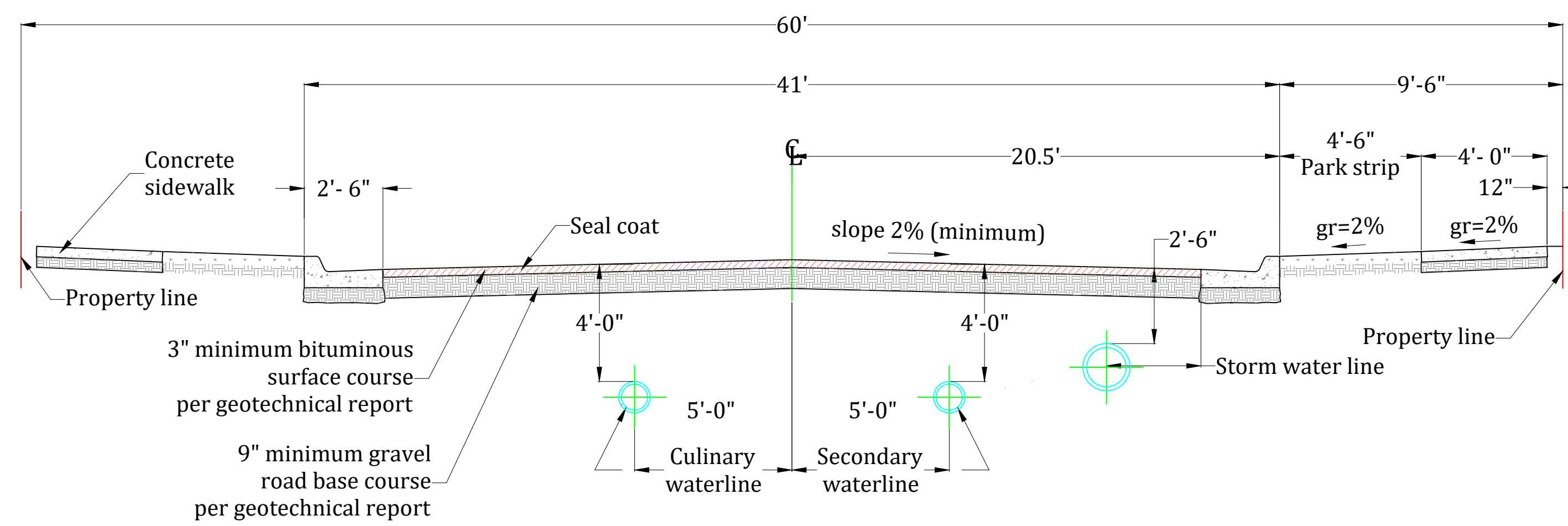
Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_



Project: **KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH**  
Title: **DETENTION POND PLAN & PROFILE: STA 200+00 - 202+00**  
Date: **25 MARCH 2022**

Prepared By: **Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

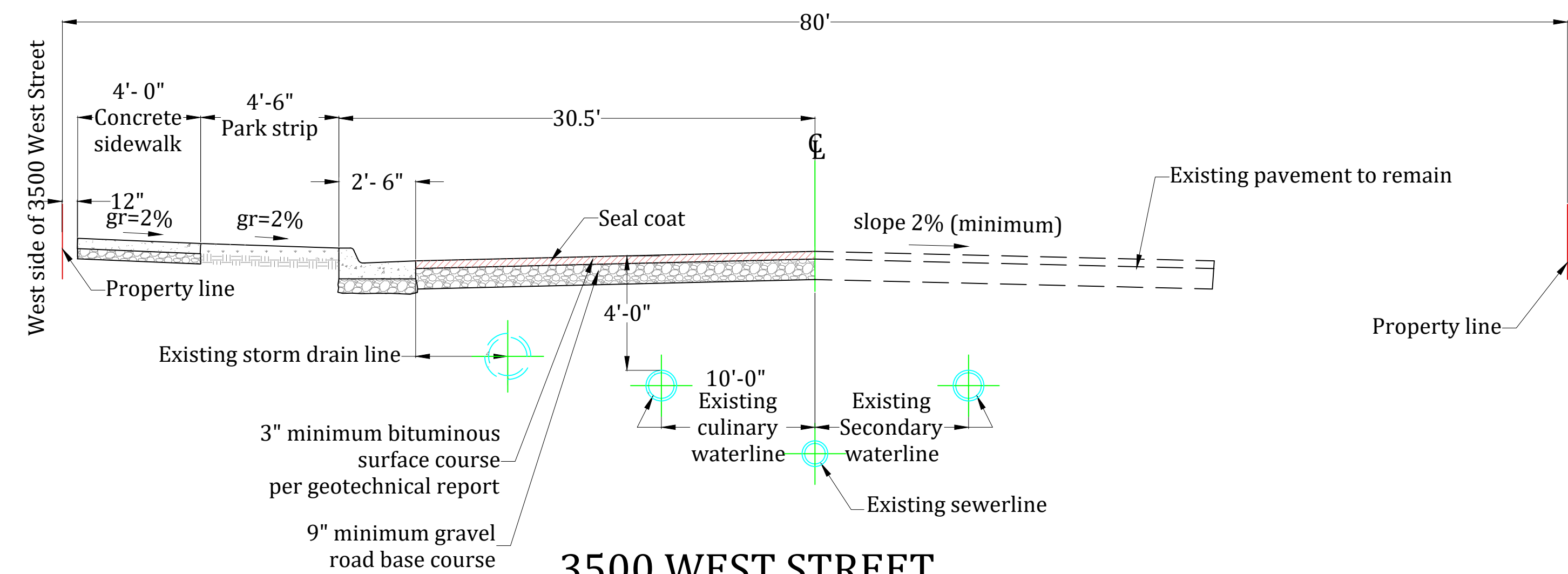
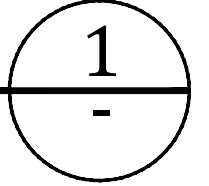
#	Date:	Revision:



- NOTES:**
1. Maximum difference in elevation between curb on opposite side of street shall not exceed 1'-0".
  2. Pavement thickness shall be considered as minimum and may be increased by the Engineer or the geotechnical report when the subgrade c.b.r. is less than 10 or when a greater depth is necessary to provide sufficient stability.
  3. Minor and major arterial streets shall be constructed with a 9" untreated base course and 3" bituminous surface course as required per geotechnical report.
  4. Minimum storm drain line size is 15" diameter.
  5. Minimum water line size is 8" diameter.
  6. Minimum sanitary sewer line size is 8" diameter.
  7. Contractor shall not install contaminated /recycled roadbase.

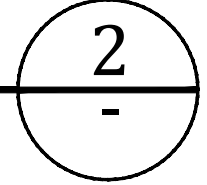
NOTE: The sanitary sewer line location varies on this street & is both existing and proposed.

**2450 SOUTH STREET  
ROADWAY SECTION**  
SCALE: NONE



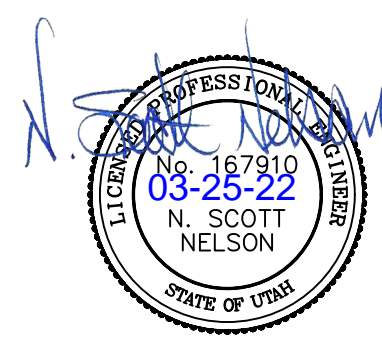
- NOTES:**
1. Maximum difference in elevation between curb on opposite side of street shall not exceed 1'-0".
  2. Pavement thickness shall be considered as minimum and may be increased by the Engineer or the geotechnical report when the subgrade c.b.r. is less than 10 or when a greater depth is necessary to provide sufficient stability.
  3. Minor and major arterial streets shall be constructed with a 9" untreated base course and 3" bituminous surface course as required per geotechnical report.
  4. Minimum storm drain line size is 15" diameter.
  5. Minimum water line size is 8" diameter.
  6. Minimum sanitary sewer line size is 8" diameter.
  7. Contractor shall not install contaminated /recycled roadbase.

**3500 WEST STREET  
ROADWAY SECTION**  
SCALE: NONE

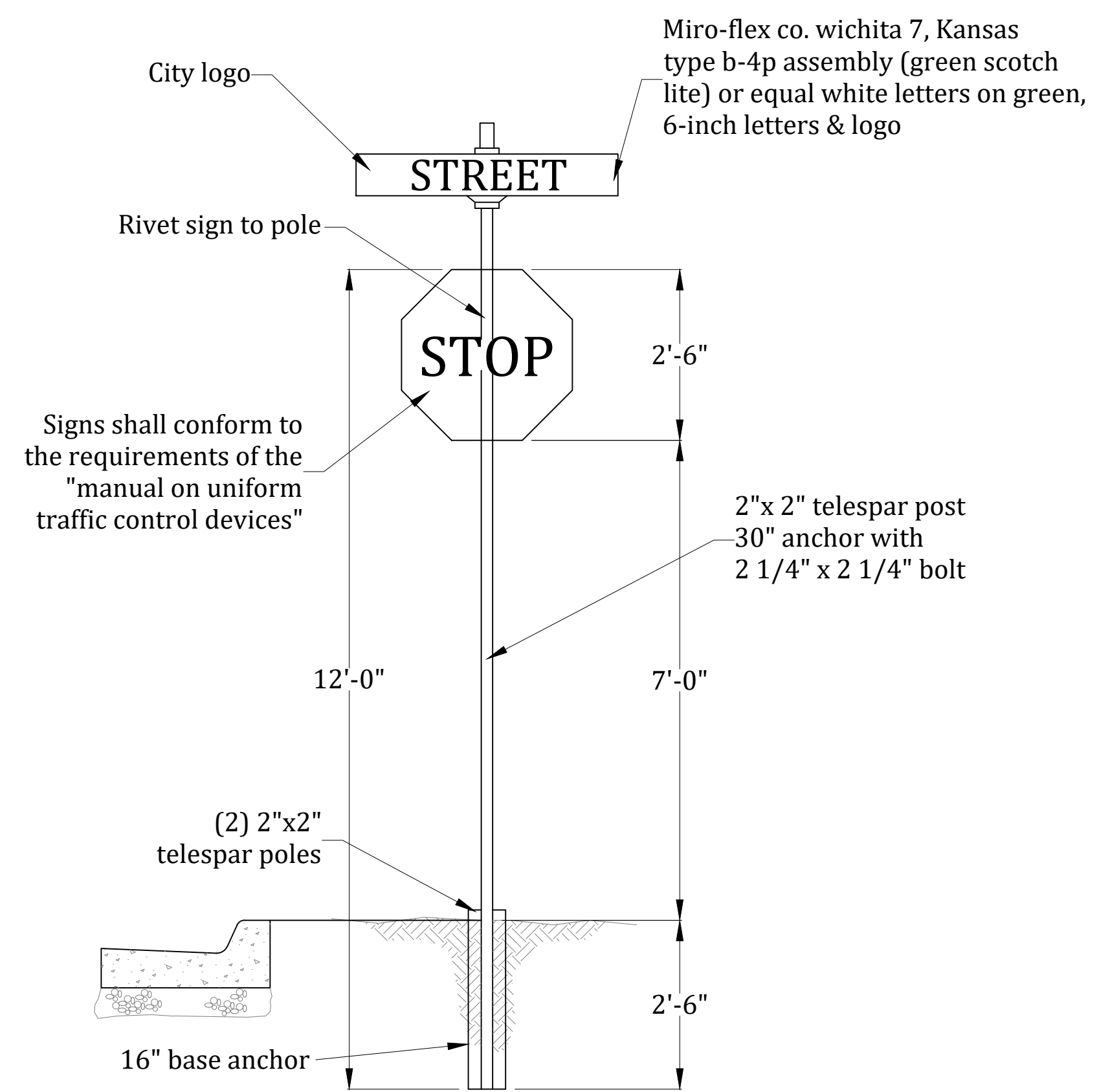


Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

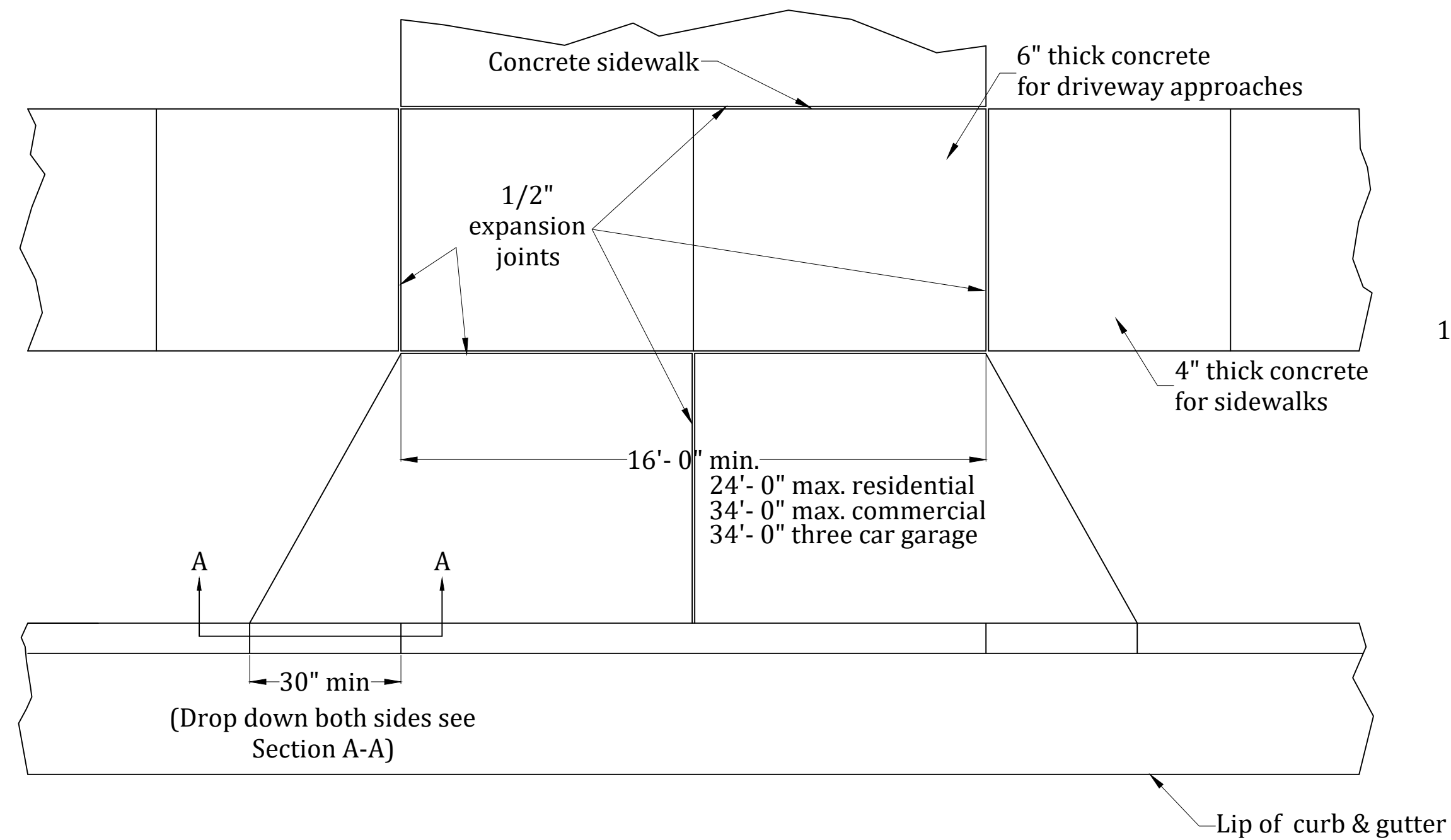
Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_



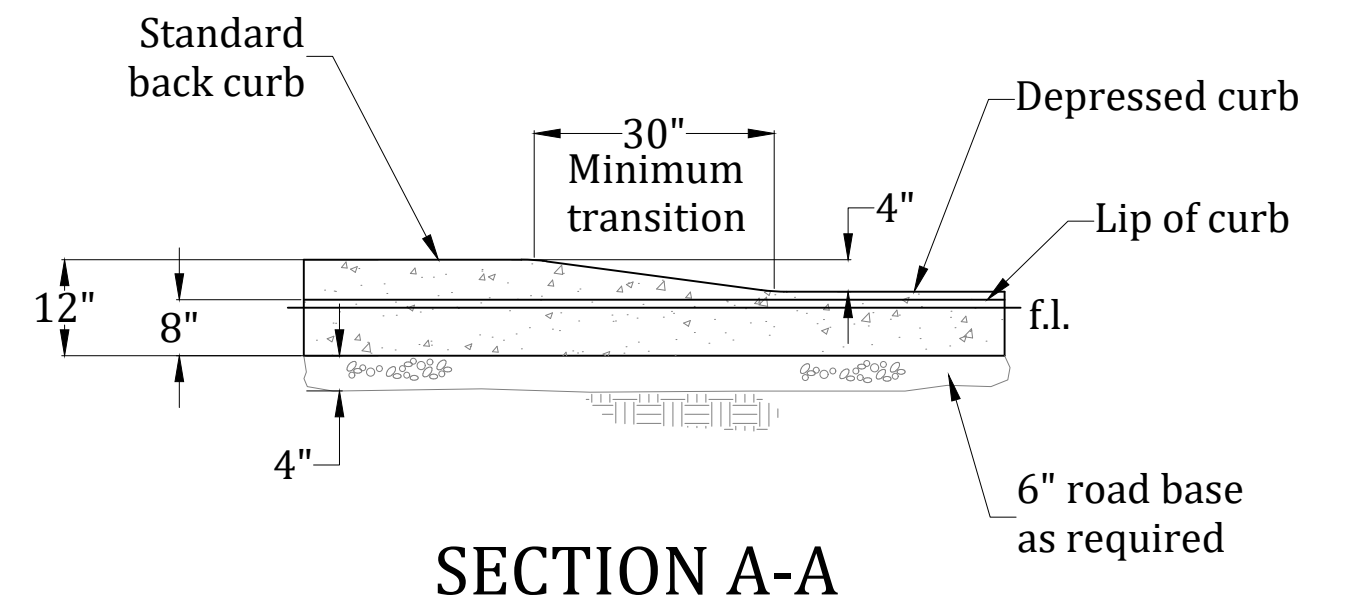
Project: <b>KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH</b>		Prepared By: <b>Summers Engineering Collective</b> - Jen Summers - Summers.eng.collective@gmail.com	
Title: <b>DETAILS: ROAD CROSS-SECTIONS</b>	#	Date:	Revision:
Date: 25 MARCH 2022			
Sheet 13 of 20			



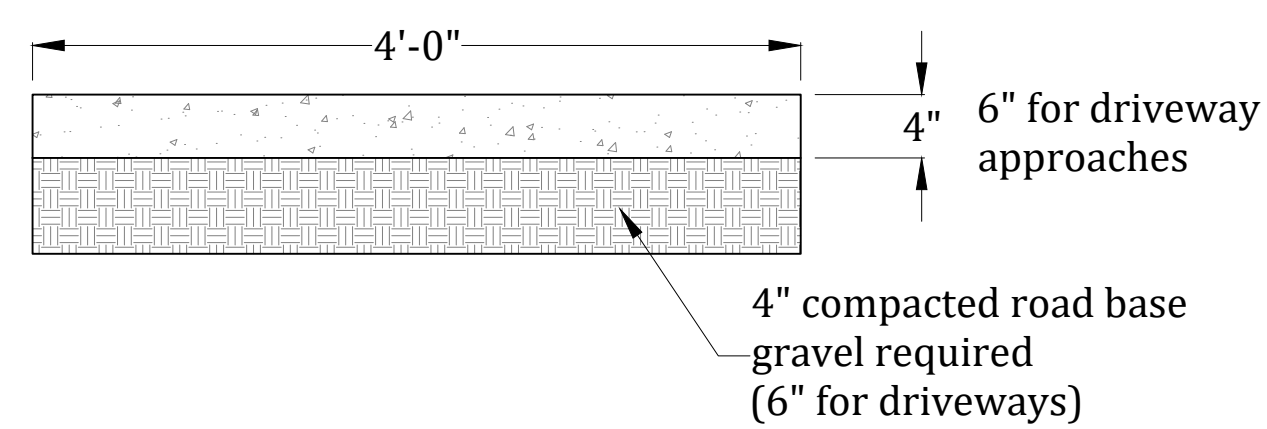
**TYPICAL REGULATORY SIGN  
W/ STREET NUMBER SIGN** 1  
SCALE: NONE



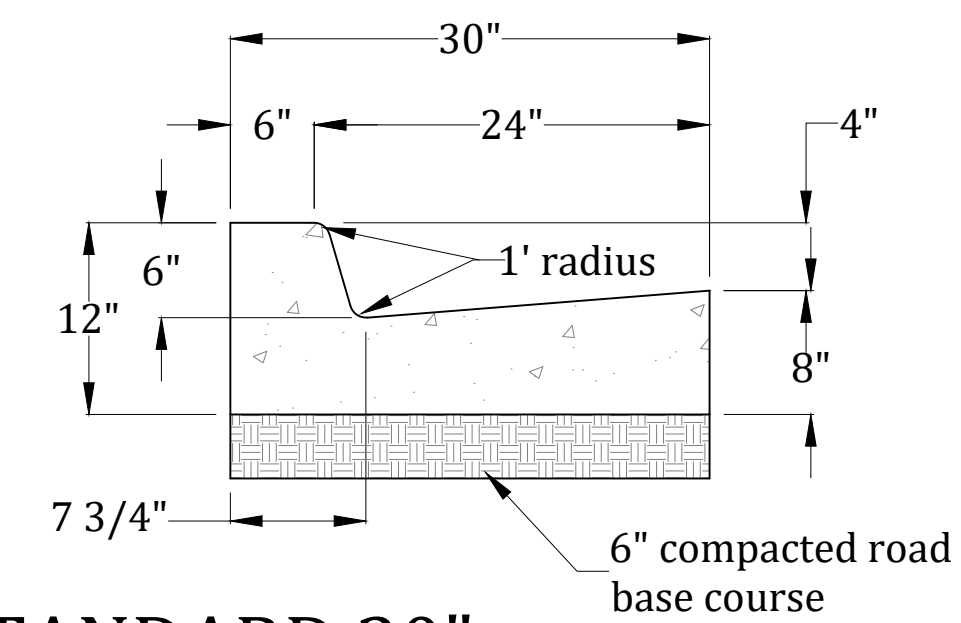
**DRIVEWAY APPROACH** 2  
SCALE: NONE



**SECTION A-A**



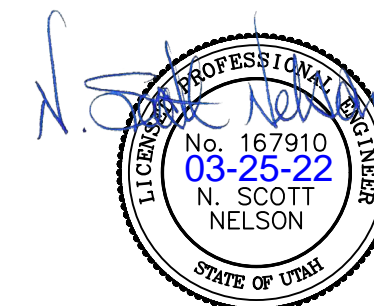
**SIDEWALK SECTION** 3  
SCALE: NONE



**STANDARD 30"  
CURB & GUTTER** 4  
SCALE: NONE

Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_

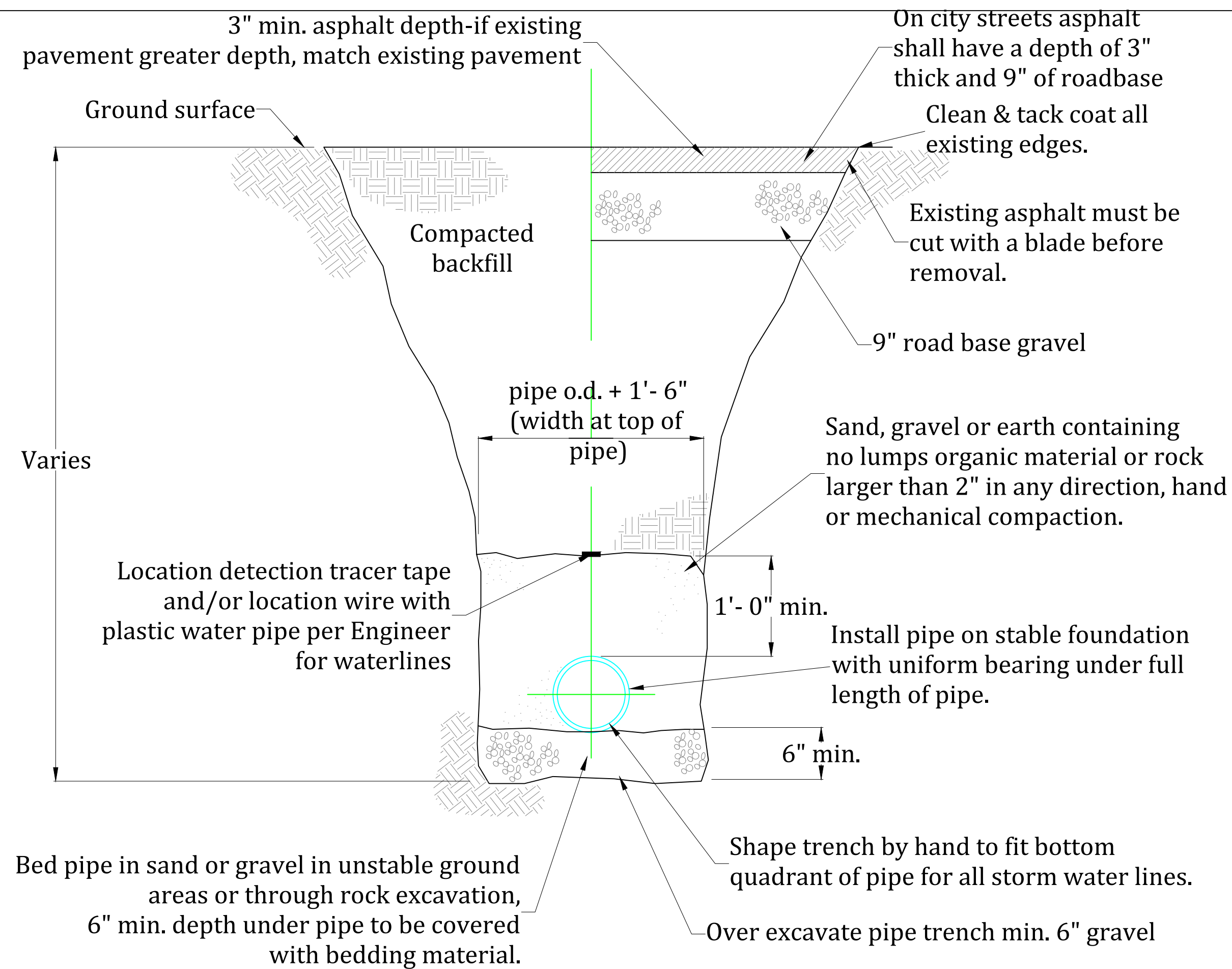


Project:  
**KENT SUBDIVISION NO. 2  
IMPROVEMENT DRAWINGS  
WEBER COUNTY, UTAH**

Title:  
**DETAILS: ROADS**  
Date:  
25 MARCH 2022

Prepared By:  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

#	Date	Revision



**SANITARY SEWER TRENCH NOTES:**

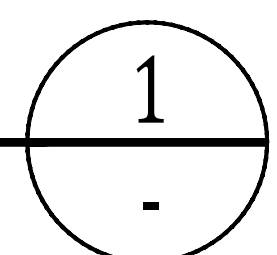
1. The Contractor shall be responsible for meeting all current OSHA and UOSH requirements for trench safety.
2. Contractor shall locate all underground utilities before laying pipe within 200' of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked" the Contractor will make arrangements with the utility company to move the utility if necessary or obtain permission from the project engineer to modify grade of pipeline in order to go around utilities.
3. The Contractor shall determine the actual location of existing service connections and utilities and take the necessary steps to avoid them. The Contractor is responsible for any damage occurring during construction.
4. Testing: All new sanitary sewers to be cleaned, "videotaped", and necessary repairs made before acceptance. All lines shall be pressure tested to 3.5 psi min. for 5 minutes. A mandrel or ball can be used to verify deformation of a pipe as determined from the videotape unless specified otherwise.
5. All measurements are in English units.
6. All sewer lines to be installed in roadway.
7. All sewer lines to be installed at a minimum 10' distance from any water lines.
8. All sewer lines to be installed with a minimum of 4' cover to the top of the pipe.

**STORM DRAIN TRENCH NOTES:**

1. The Contractor shall be responsible for meeting all current OSHA and UOSH requirements for trench safety.
2. Contractor shall locate all underground utilities before laying pipe within 50' of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked" the contractor will make arrangements with the utility company to move the utility if necessary or obtain permission from the Project Engineer to modify grade of pipeline in order to go around utilities.
3. Testing: All new storm water systems to be cleaned, "videotaped", and necessary repairs made before acceptance. All lines shall be pressure tested to 3.5 psi (min.) for 5 minutes. A mandrel or ball can be used to verify deformation of a pipe as determined from the videotape.
4. All storm water lines to be installed in roadway or under curb and gutter with approval by city engineer.
5. Minimum pipe size for storm water pipe is 15" diameter and must be concrete.
6. Minimum depth of storm water pipe shall be 24" cover over top of pipe bell for standard backfill material, or as approved by City Engineer.

**STORM WATER, SANITARY SEWER & SECONDARY WATER TRENCH CROSS-SECTION**

SCALE: NONE



All utility trenching within road right-of-ways which are 66' wide or wider shall have flowable backfill material

Safe bearing loads	
Soil type	Safe bearing load (lb/ft <sup>2</sup> )
Sand	1000
Sand & gravel	1500
Sand & gravel cemented with clay	2000
Shale	5000

Thrust block area against trench wall (square feet) = Thrust on / Safe bearing fitting load of soil

All trenching for service connections shall have 100% roadbase backfill material above the pipe zone within any road right-of-way

Thrust on fittings in pounds @ 1 pound per square inch of water pressure *				
Pipe size	Tees	90° bends	45° bends	22.5° bends
8"	65.8	93	50.4	25.5
10"	107.5	152	82.4	41.7
12"	153.1	216.4	117.2	59.4

\*multiply thrust by maximum water pressure

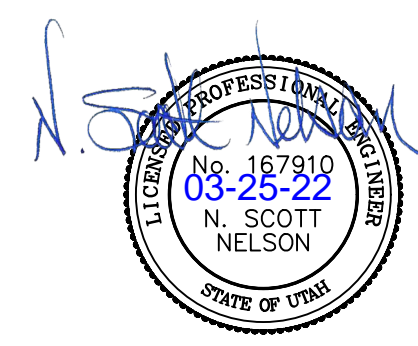
Developer:  
**Judy Kent**  
 Contact:  
 Tony Kent: 385-502-1184

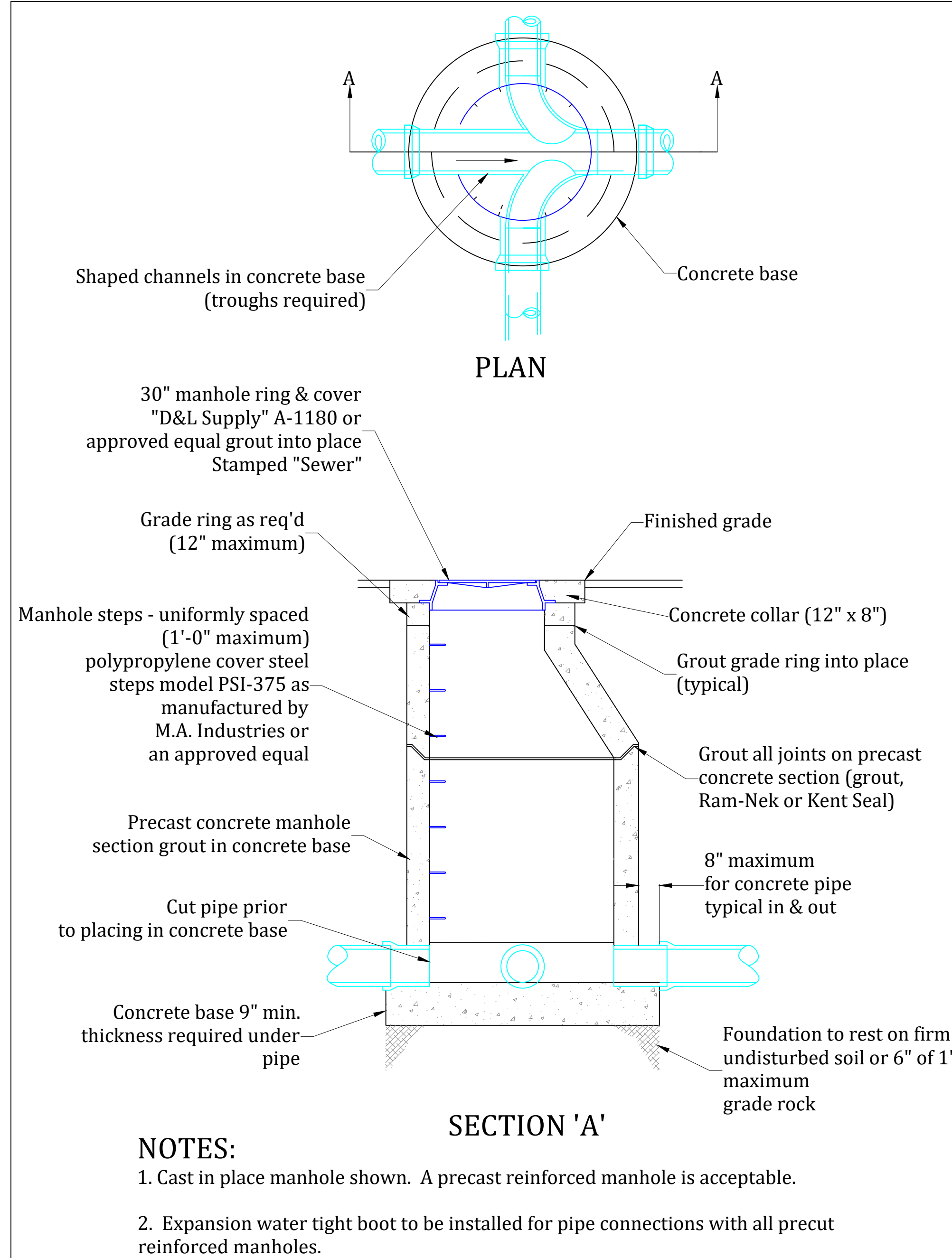
Approved for Construction  
 \_\_\_\_\_  
 Weber City Engineer  
 Date: \_\_\_\_\_

Project: **KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH**  
 Title: **DETAILS: TRENCHING**  
 Date: **25 MARCH 2022** | Sheet 15 of 20

Prepared By: **Summers Engineering Collective**  
 - Jen Summers -  
 Summers.eng.collective@gmail.com

#	Date:	Revision:



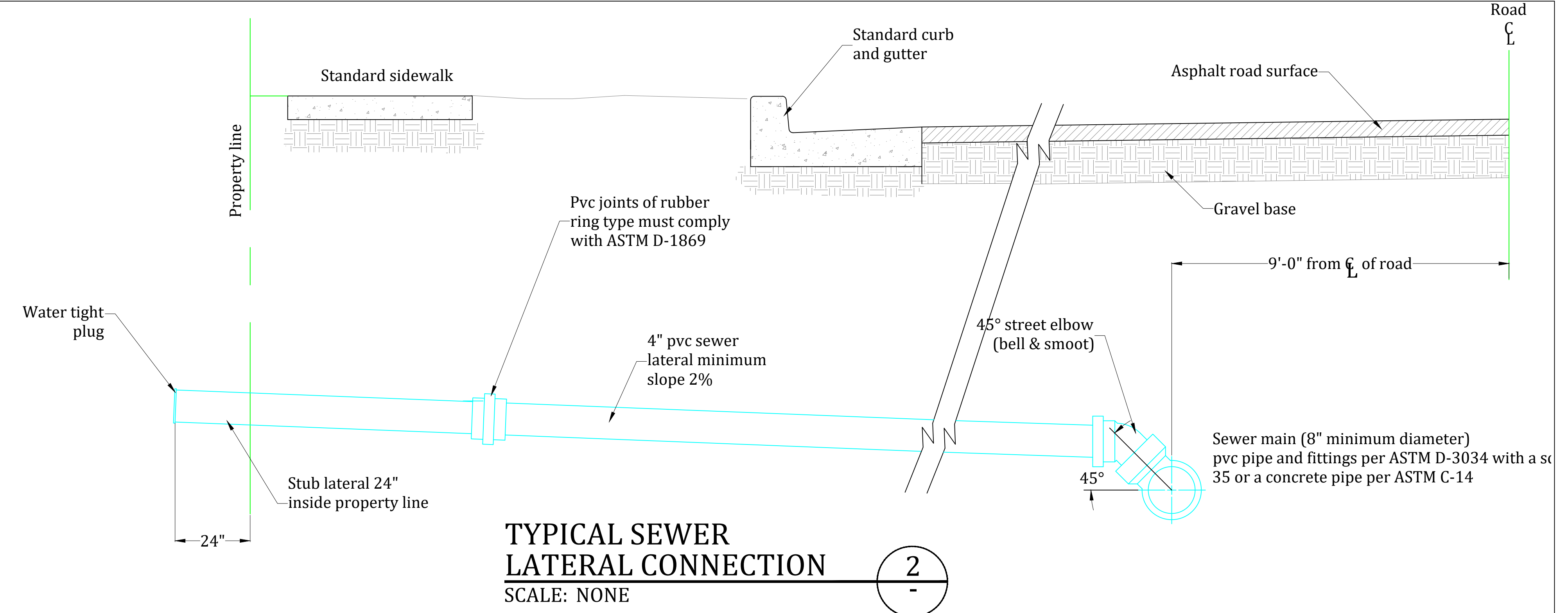


- NOTES:**
1. Cast in place manhole shown. A precast reinforced manhole is acceptable.
  2. Expansion water tight boot to be installed for pipe connections with all precast reinforced manholes.

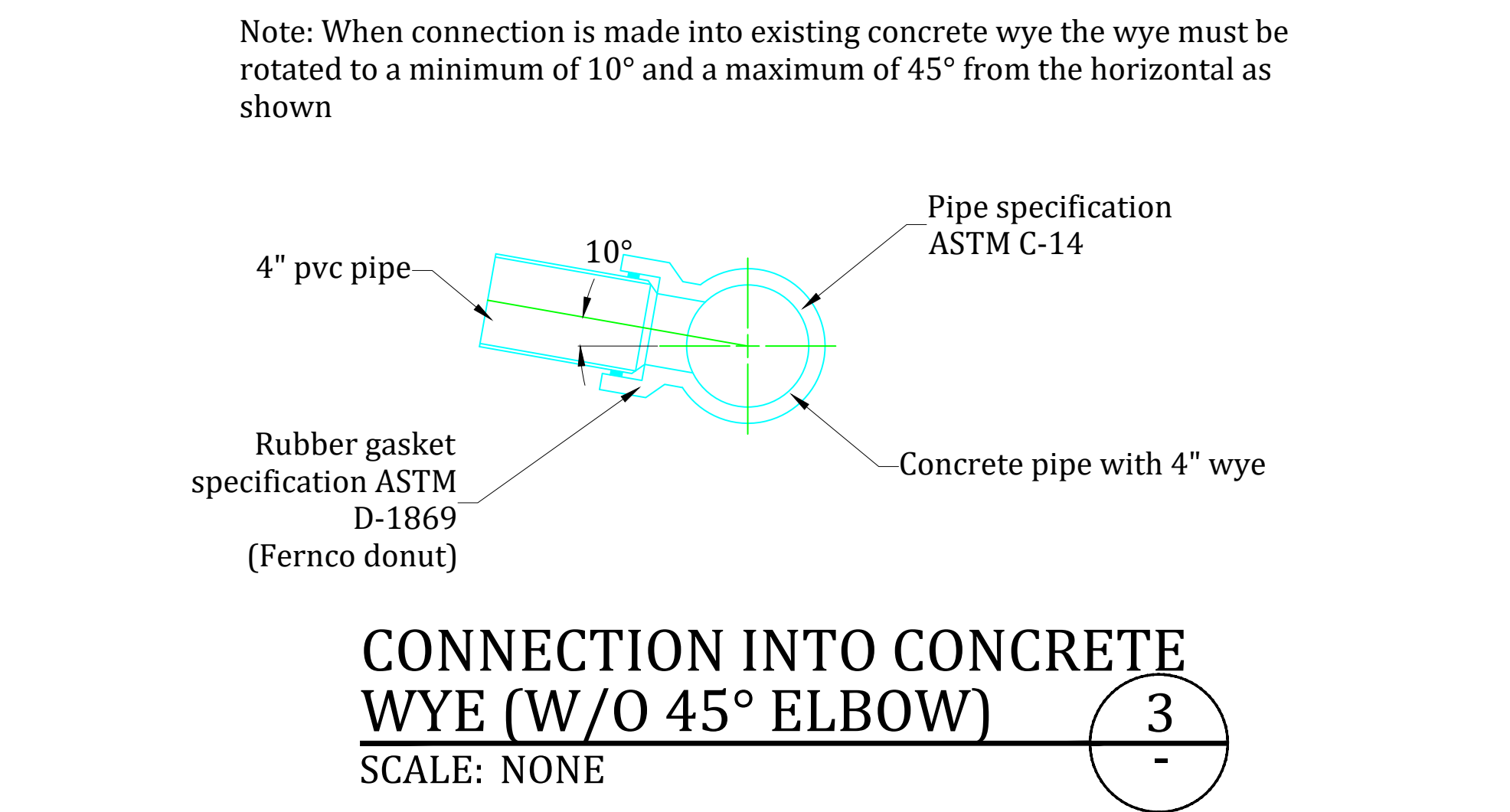
**STANDARD SANITARY SEWER MANHOLE**  
SCALE: NONE 1

Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

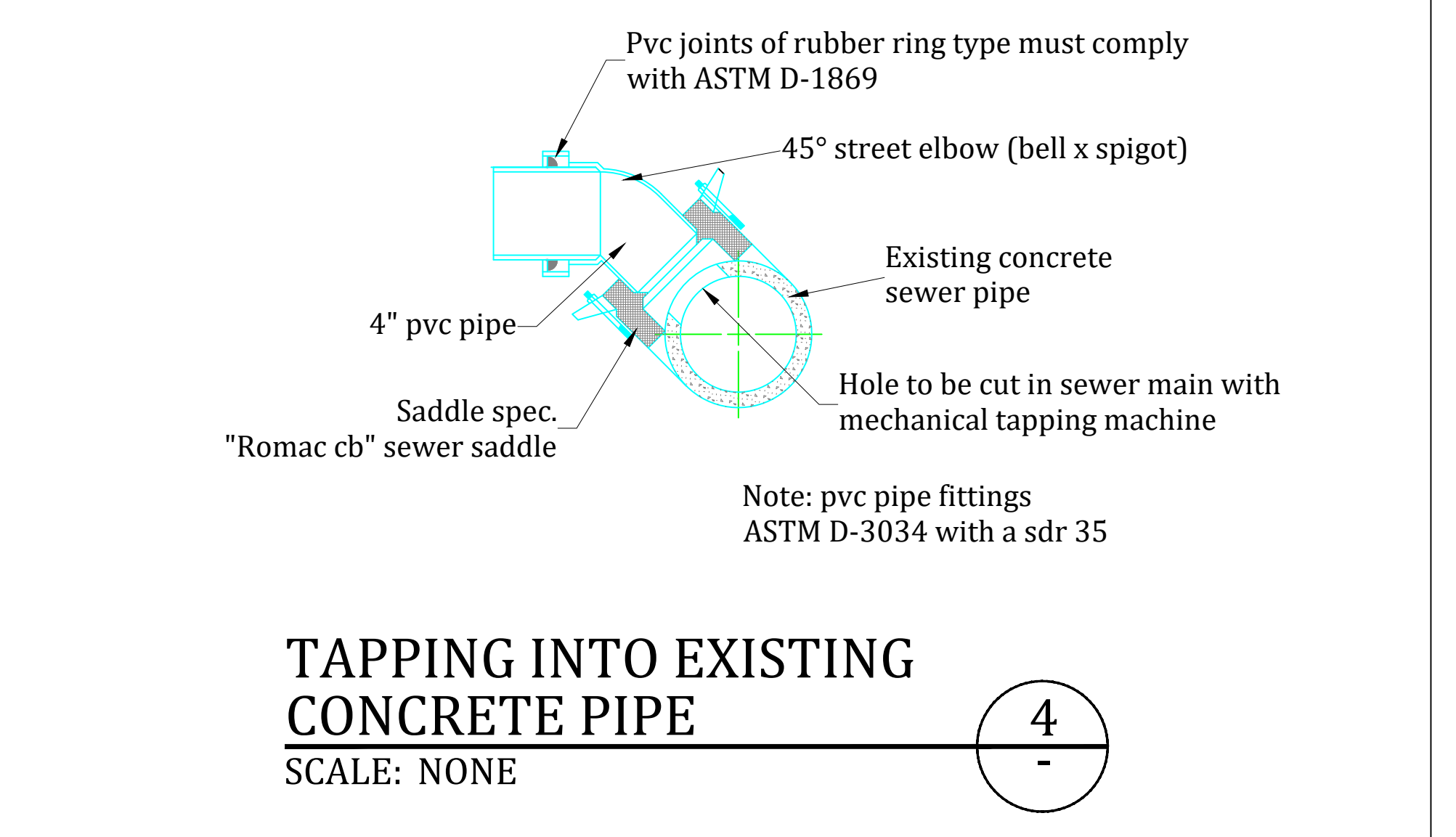
Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_



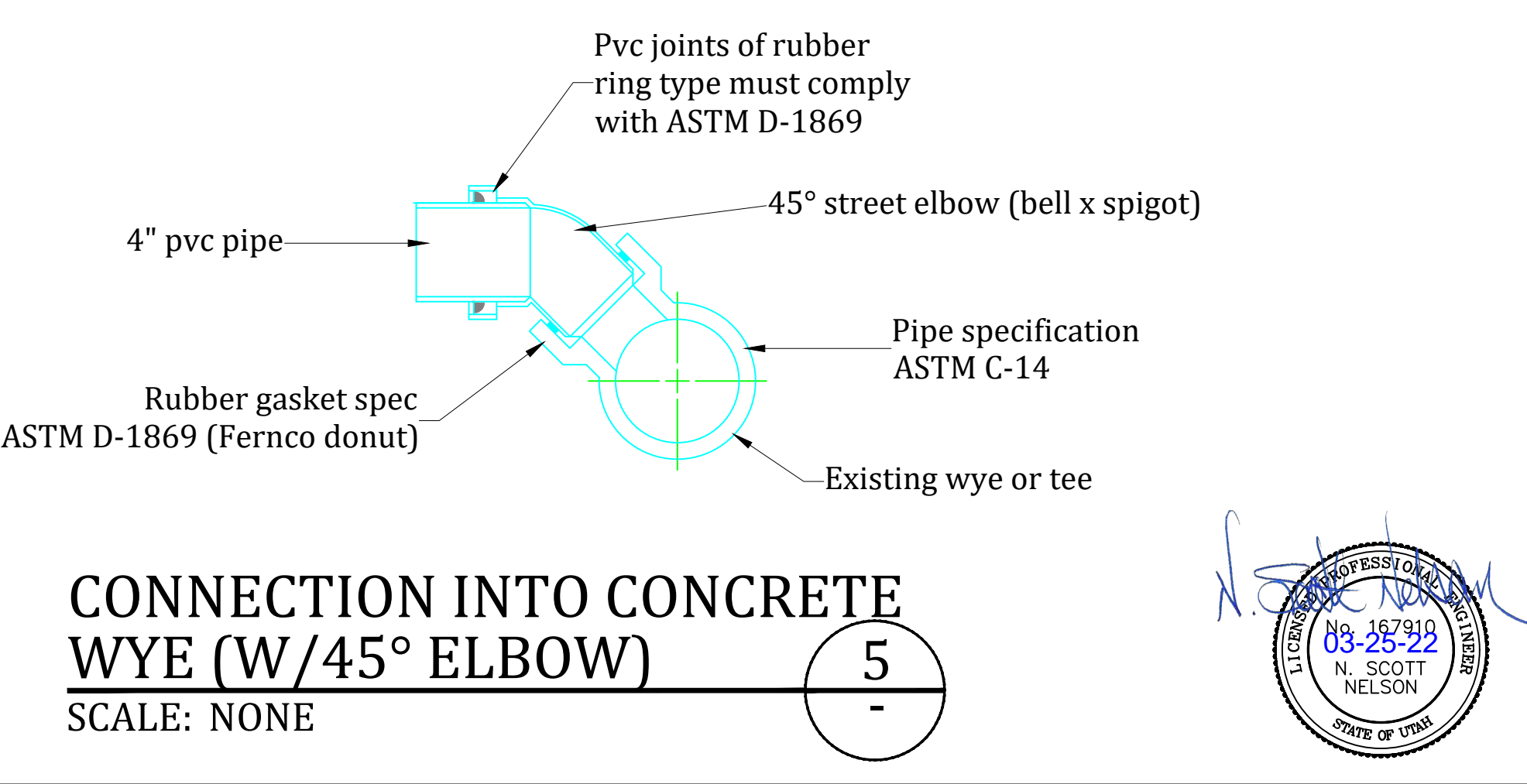
**TYPICAL SEWER LATERAL CONNECTION**  
SCALE: NONE 2



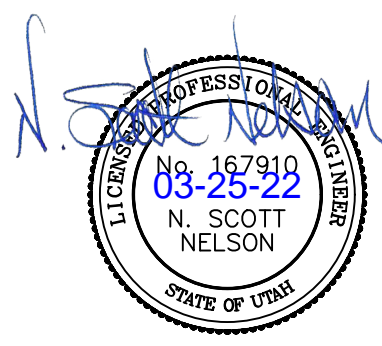
**CONNECTION INTO CONCRETE WYE (W/O 45° ELBOW)**  
SCALE: NONE 3



**TAPPING INTO EXISTING CONCRETE PIPE**  
SCALE: NONE 4



**CONNECTION INTO CONCRETE WYE (W/45° ELBOW)**  
SCALE: NONE 5



Project:  
**KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH**

Title:  
**DETAILS: SANITARY SEWER**  
Date:  
25 MARCH 2022

Prepared By:  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

#	Date:	Revision:



NOTE:  
CONTRACTOR IS RESPONSIBLE TO MEET TRENCH RESTORATION STANDARDS OF THE ENTITY OWNING THE ROADWAY. RESTORE THE ROADWAY TO SAID STANDARDS AND SHALL BE SOLELY RESPONSIBLE FOR ALL ROADWAY PERMITS AND/OR FEES.

\*STANDARDS AS OF 11/2018

	HOOPER CITY	WEST HAVEN CITY	WEBER COUNTY
ASPHALT	3"	3"	3"
ROAD BASE	12"	8"	8"
SUB BASE	--	12"	--
T-PATCH	24"	12"	12"

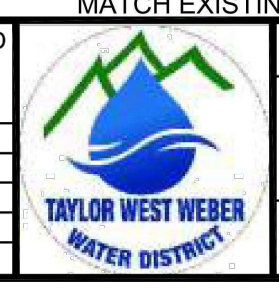
MIN. 8" Ø PVC MAIN LINE. POTABLE WATER PIPE SHALL BE BLUE. NO OTHER BURIED UTILITIES SHALL BE BLUE.

- NOTE:
- WATER & SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10 HORIZONTAL FEET FROM EACH OTHER.
  - WHERE A WATER MAIN AND A SEWER MAIN MUST CROSS, THE WATER MAIN SHALL BE AT LEAST 18" ABOVE THE SEWER MAIN.
  - SEPARATION DISTANCES ARE TO BE MEASURED EDGE-TO-EDGE.
  - WATER MAINS SHALL NOT BE INSTALLED IN THE SAME TRENCH WITH EITHER SEWER OR SECONDARY PIPES.
  - IF THESE STANDARDS CANNOT BE MET AN EXCEPTION TO THE STANDARD MAY BE POSSIBLE. THE ENTITY SEEKING THE EXCEPTION SHALL INITIATE AND PURSUE A REQUEST FOR A SEPARATION EXCEPTION WITH THE STATE DIVISION OF DRINKING WATER, IN ACCORDANCE WITH R309-550-7 OF THE STATE OF UTAH ADMINISTRATIVE RULES.

### 3A TYPICAL TRENCH SECTION

NTS

DRAFTED: MDD	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: DW	BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT, DDW Approval 6/2020
CHECKED: RR	DISTRICT, DDW Approval 6/2020
REV 1:	3A: 2022-01-21, PIPE SIZE, TYPE, COLOR
REV 2:	
REV 3:	
REV 4:	



STANDARD WATER DETAILS	TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT	
THRUST BLOCK DETAIL	
TYPICAL VALVE DETAIL	
	SHEET 2

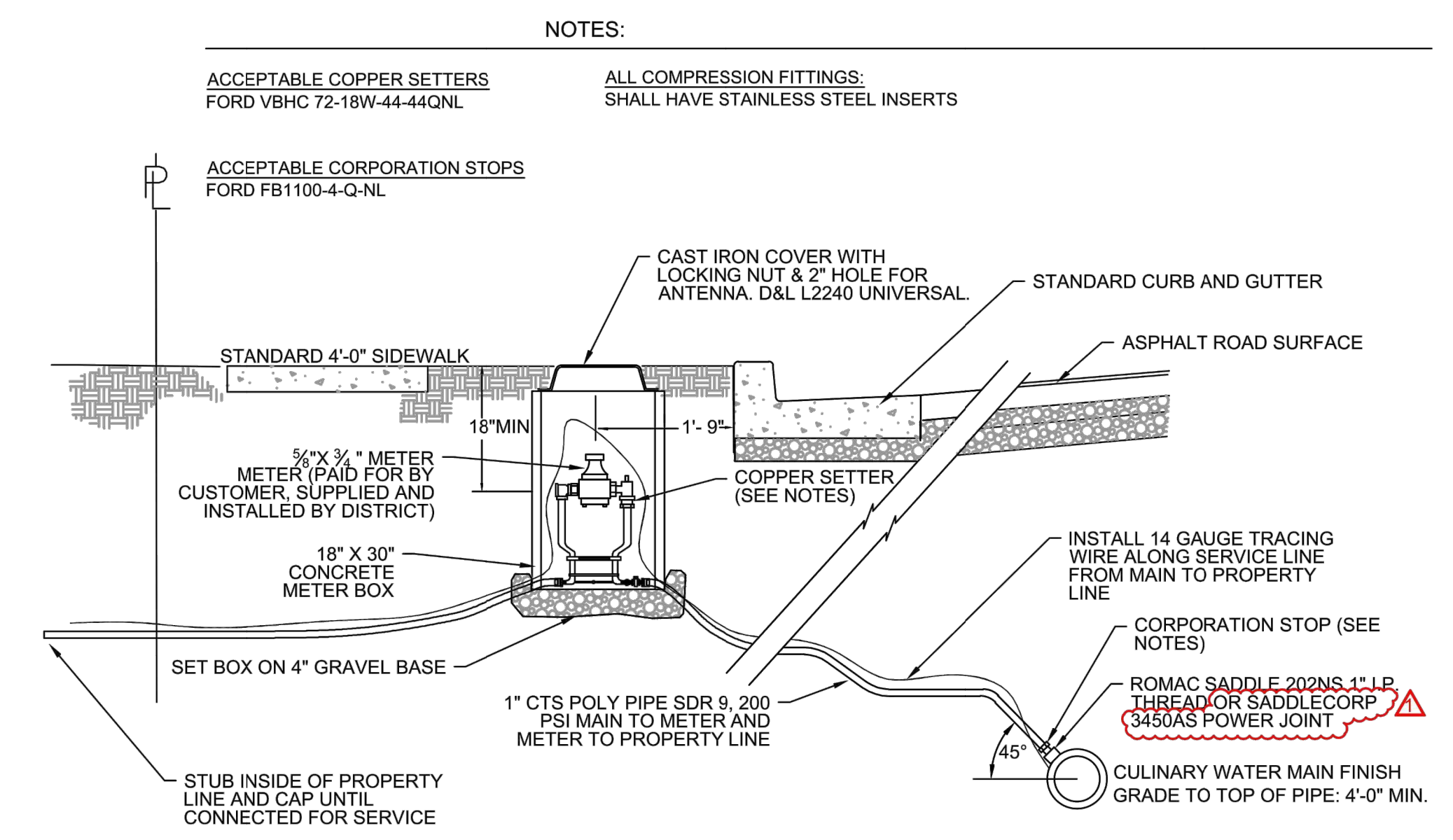
**GARDNER ENGINEERING**  
CIVIL - LAND PLANNING  
MUNICIPAL - LAND SURVEYING  
5150 SOUTH 375 EAST OGDEN, UT  
OFFICE: 801.476.0202 FAX: 801.476.0066

#### CULINARY WATER TRENCH NOTES:

1. All waterlines shall be PVC C-900 DR18.
2. All waterlines shall be 8" minimum.
3. Valves 12 inches or larger shall be butterfly valve boxes.
4. Ductile iron pipe and fittings shall be wrapped with polyethylene and have cathodic protection where required.
5. Whenever possible "hot tap" connections required. Hot tap valve to be supported during connection. Contractor to notify Weber County & Water supplier 24 hours in advance of making connection.
6. Contractor shall contact property owners 24 hours in advance with written notice for shutting off water.
7. Pipe zone shall be backfilled with sand or material as approved by Project Engineer.
8. Concrete collars shall be placed around all valves.
9. The following tests must be passed before the waterline is connected for service:
  - a. Pressure Test - Must keep a minimum of 200 PSI for 2 hours
  - b. Chlorination Test - Must keep a minimum of 30 PPM for 24 hours.
  - c. Clear Water Test
  - d. Bacteria Test - A minimum of 2 tests are required.
10. All mechanical joint restraint (e.g. megalug) connections, flange fittings and all other fittings using connection bolts must be furnished and installed with bluebolts.

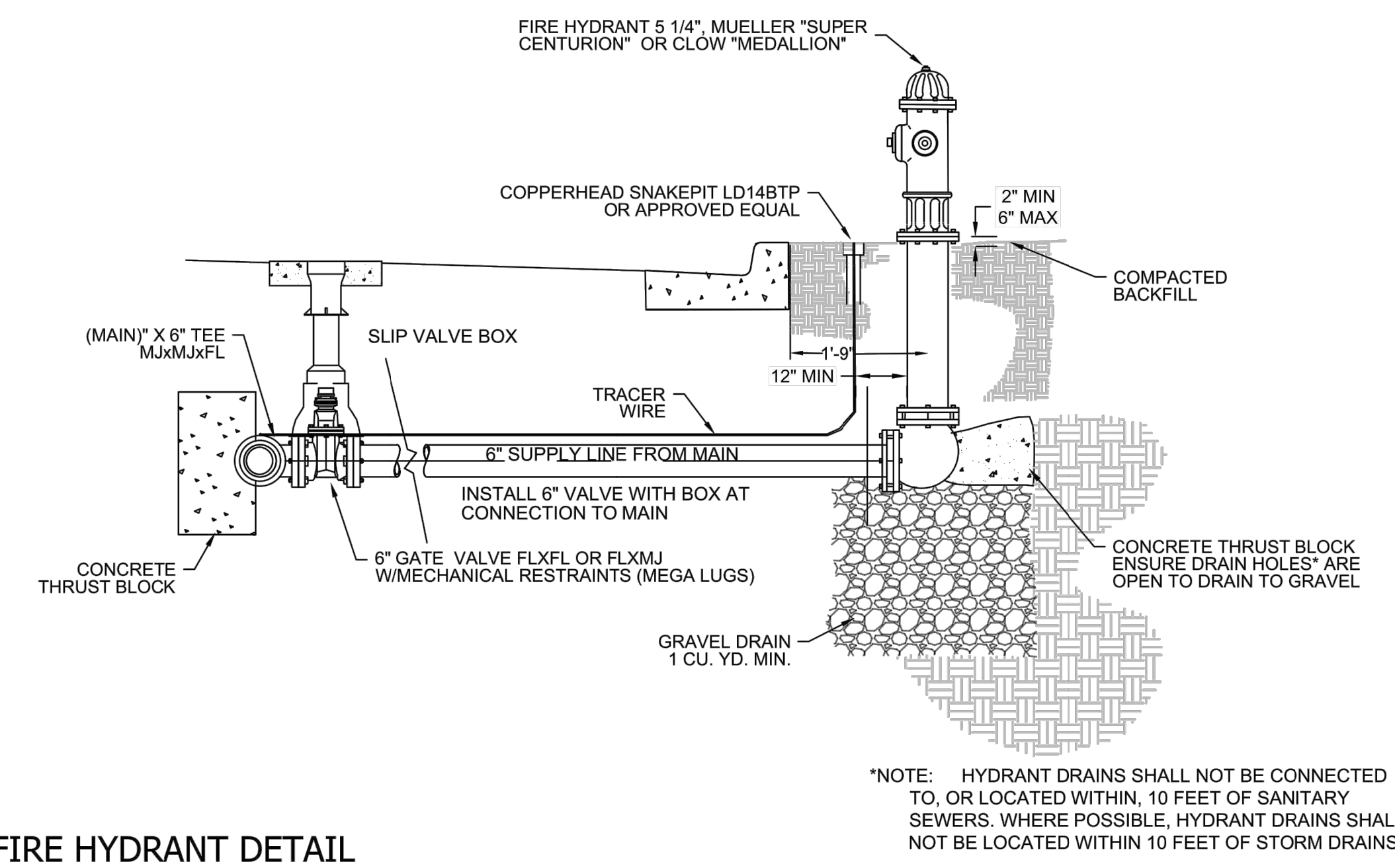
Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_



### 4 TYPICAL WATER CONNECTION/RE-CONNECTION

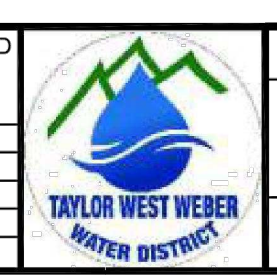
NTS



### 5 FIRE HYDRANT DETAIL

NTS

DRAFTED: MDD	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: DW	BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT, DDW Approval 6/2020
CHECKED: RR	DISTRICT, DDW Approval 6/2020
REV 1:	3/7/22, ADD SADDLECORP 3450AS
REV 2:	
REV 3:	
REV 4:	



STANDARD WATER DETAILS	TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT	
TYPICAL WATER CONNECTION DETAIL	
FIRE HYDRANT DETAIL	
	SHEET 3

**GARDNER ENGINEERING**  
CIVIL - LAND PLANNING  
MUNICIPAL - LAND SURVEYING  
5150 SOUTH 375 EAST OGDEN, UT  
OFFICE: 801.476.0202 FAX: 801.476.0066

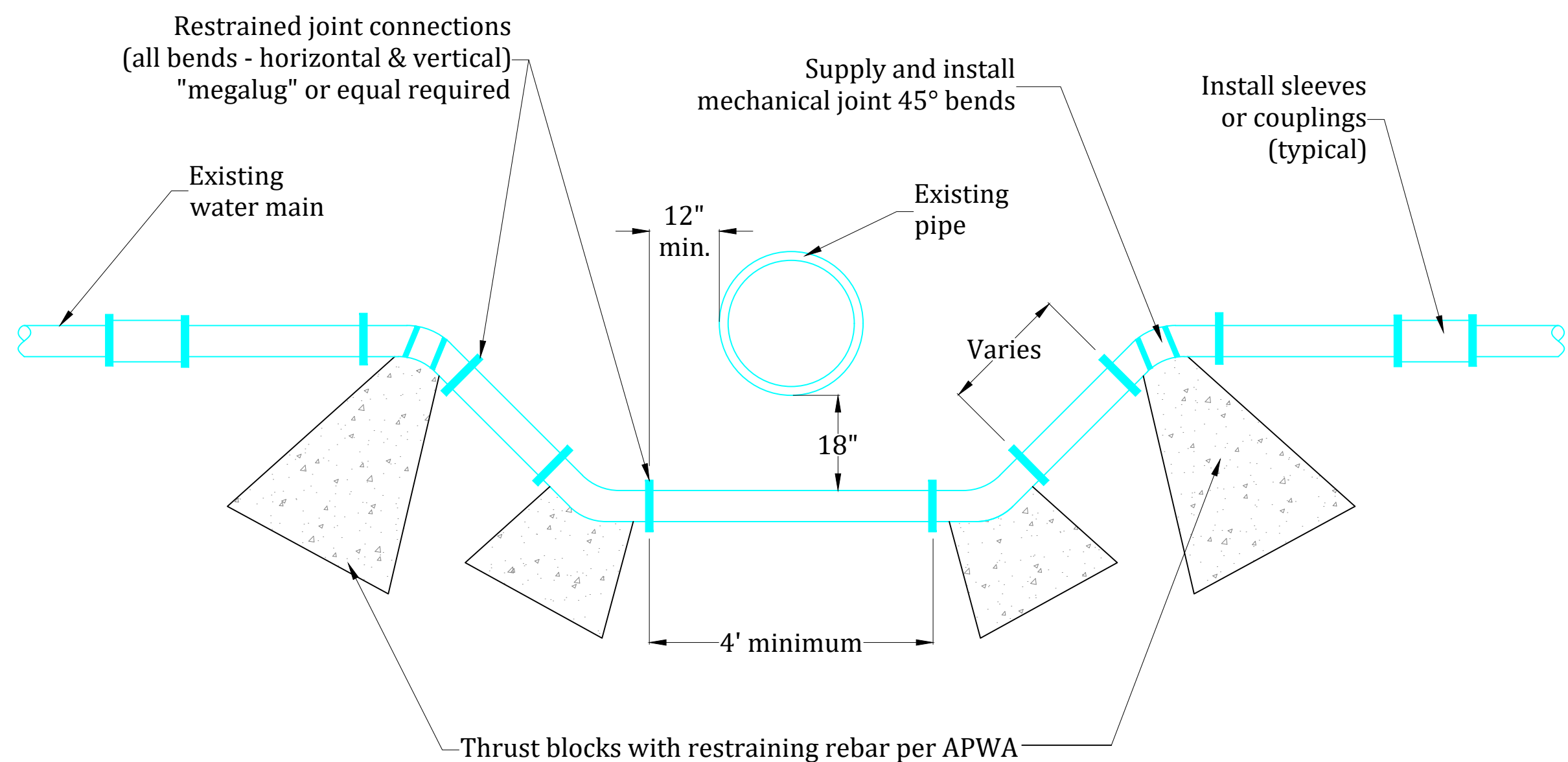
Project:  
**KENT SUBDIVISION NO. 2  
IMPROVEMENT DRAWINGS  
WEBER COUNTY, UTAH**

Prepared By:  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

Title:  
**DETAILS: CULINARY WATER**

Date:  
25 MARCH 2022

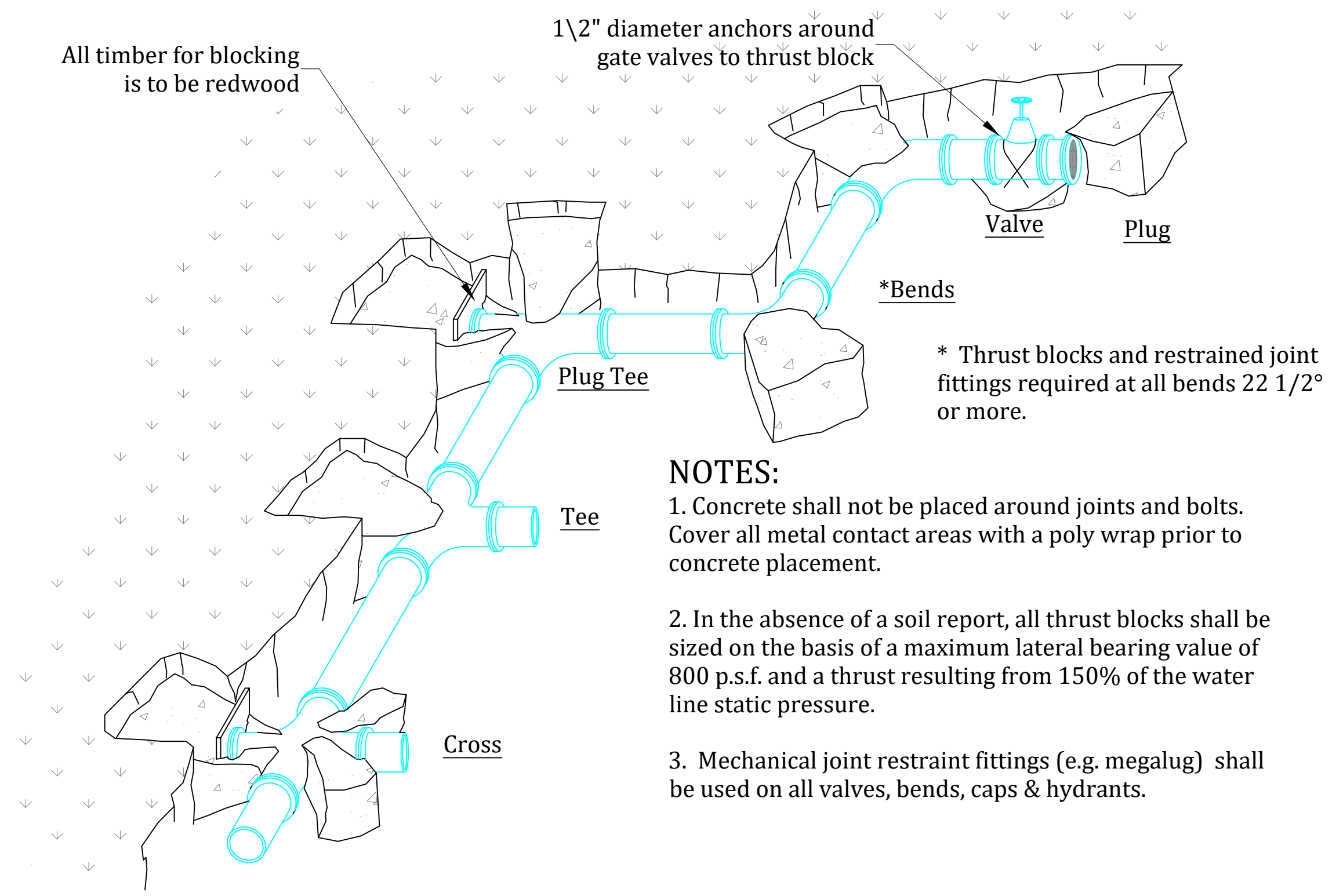
#	Date:	Revision:



**NOTE:**  
All County residents or commercial water users to be given 24 hour written notice before looping or shutting down any waterline.

**TYPICAL WATER LOOP**  
SCALE: NONE

1  
-



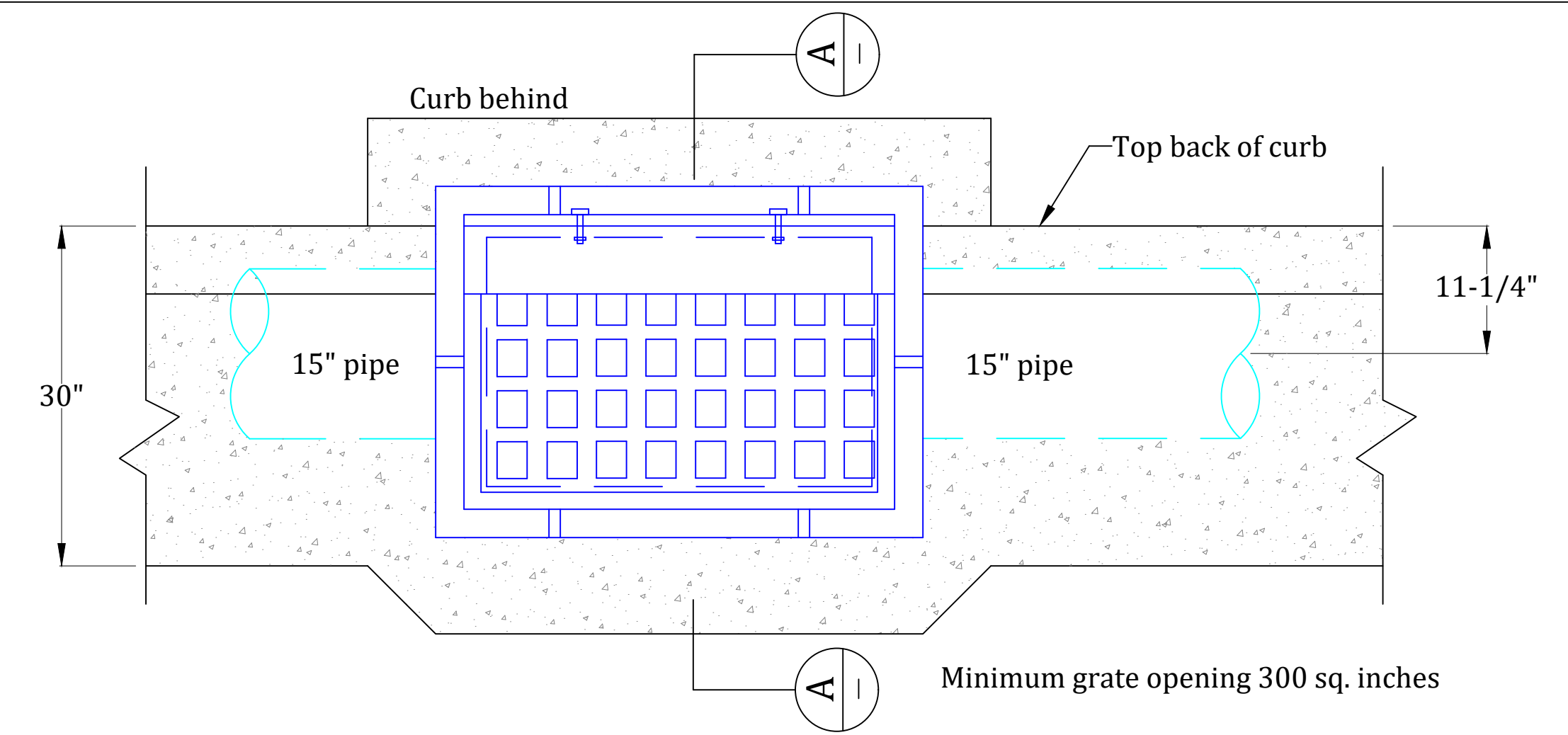
**NOTES:**  
1. Concrete shall not be placed around joints and bolts. Cover all metal contact areas with a poly wrap prior to concrete placement.  
2. In the absence of a soil report, all thrust blocks shall be sized on the basis of a maximum lateral bearing value of 800 p.s.f. and a thrust resulting from 150% of the water line static pressure.  
3. Mechanical joint restraint fittings (e.g. megalug) shall be used on all valves, bends, caps & hydrants.

**CONCRETE THRUST BLOCK DETAILS**  
SCALE: NONE

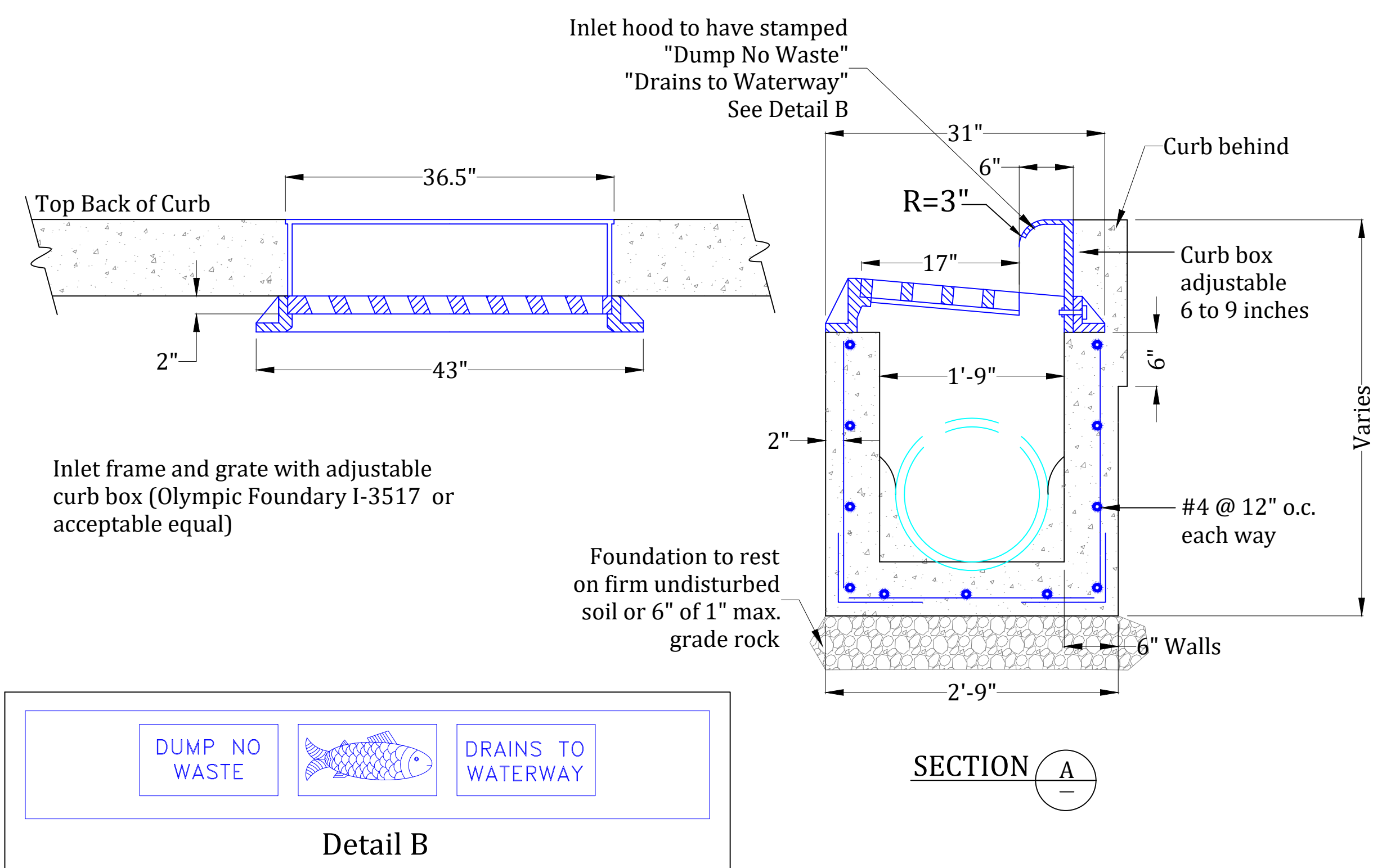
2  
-

**Developer:**  
Judy Kent  
**Contact:**  
Tony Kent: 385-502-1184

**Approved for Construction**  
Weber City Engineer  
Date: \_\_\_\_\_

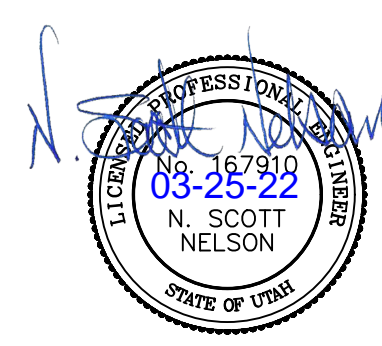


**NOTES:**  
1. All reinforcement shall be #4 deformed steel, grade 60.  
2. All reinforcement shall be placed at 9" o.c. each way in the floor and the walls.  
3. The adjustable curb box inlet grate shall be bicycle safe. D&L Supply I-3517 or acceptable equal.  
4. All pipes in the box shall be cut with the interior of the box and grouted smooth.  
5. Rebar shall have 2" clear on earth side of structure.



**STANDARD STORM DRAIN HOODED CATCH BASIN**  
SCALE: NONE

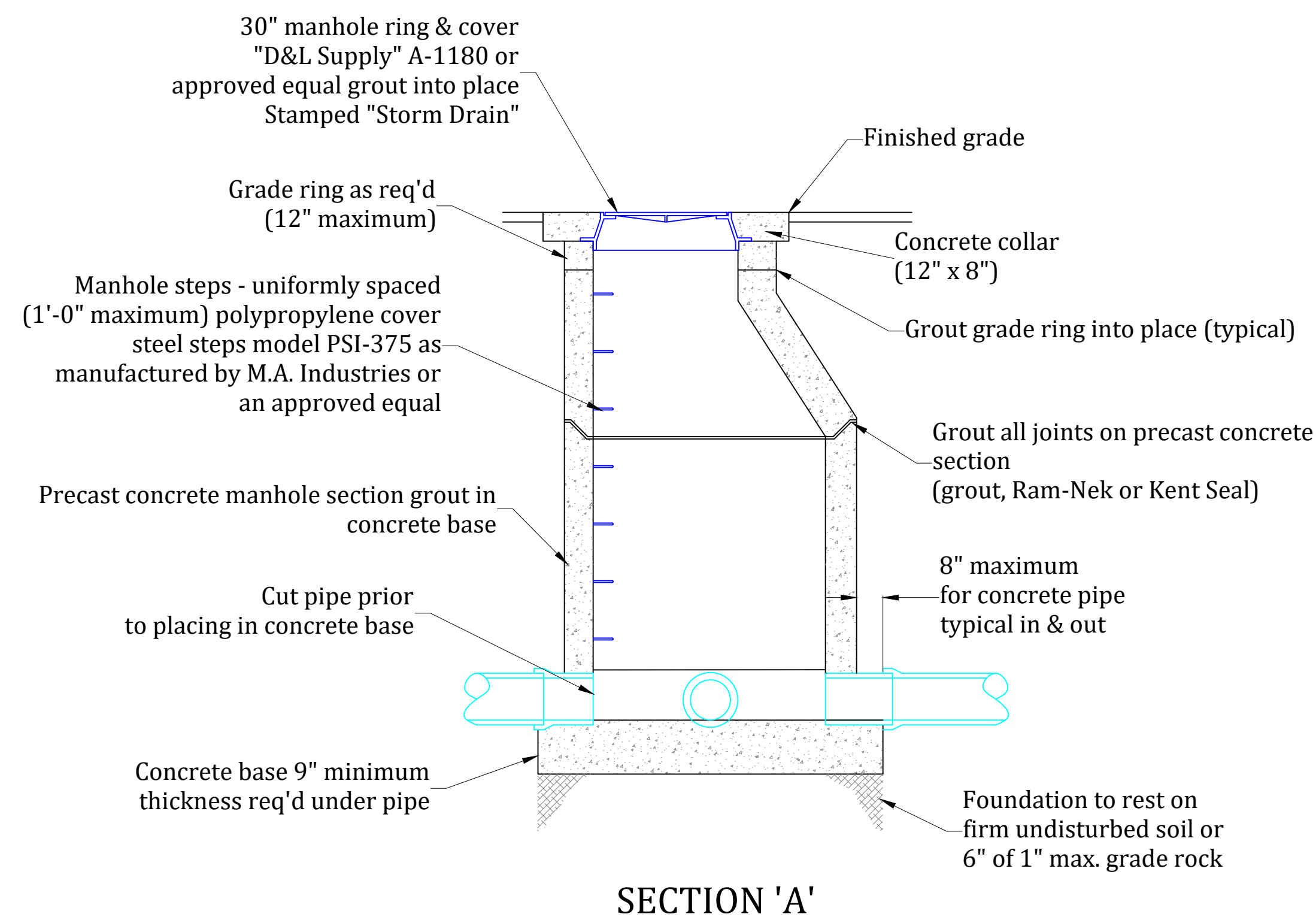
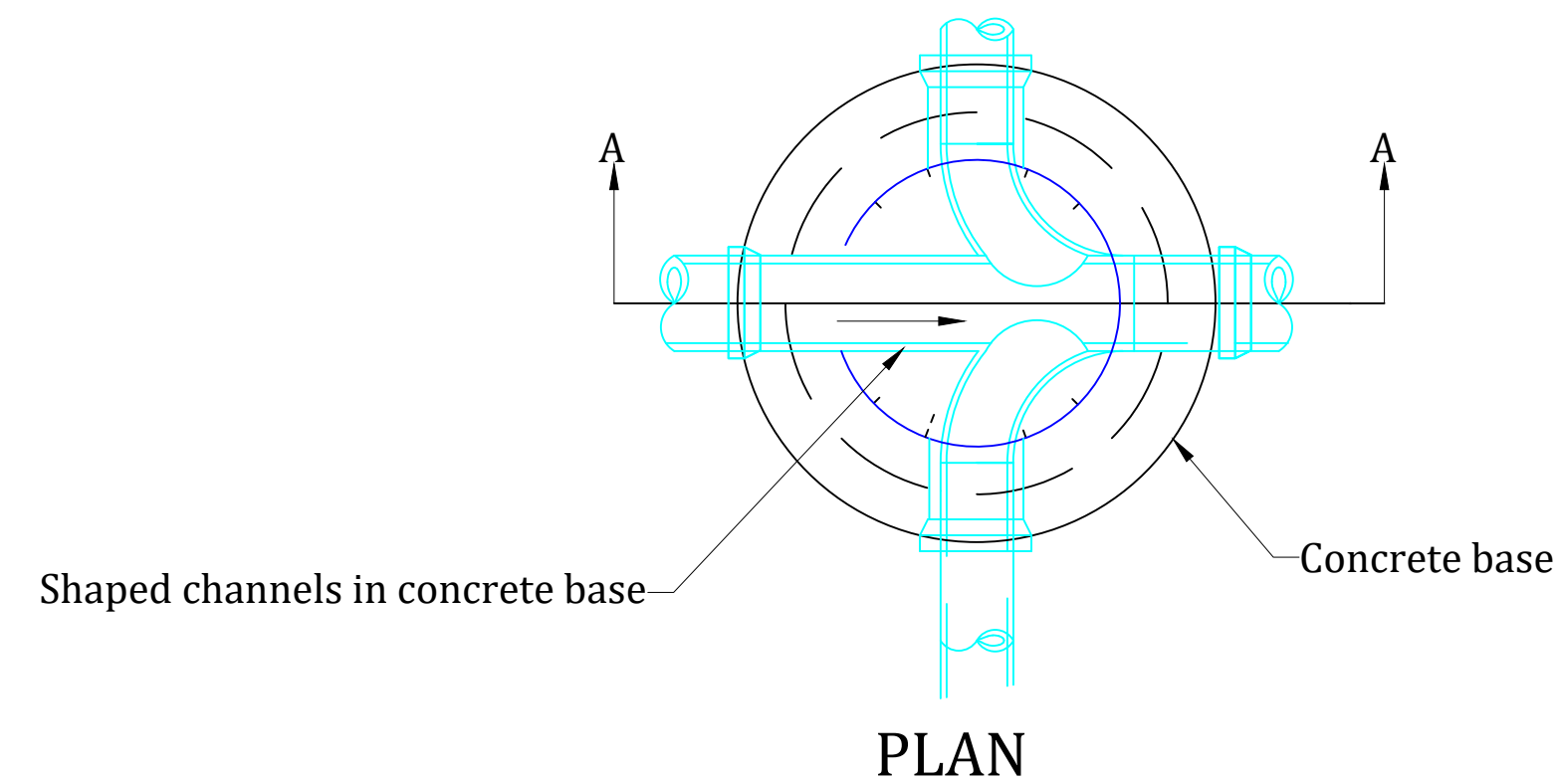
3  
-



**Project:**  
KENT SUBDIVISION NO. 2  
IMPROVEMENT DRAWINGS  
WEBER COUNTY, UTAH  
**Title:**  
DETAILS:  
CULINARY WATER & STORM DRAIN  
**Date:**  
25 MARCH 2022

**Prepared By:**  
Summers Engineering Collective  
- Jen Summers -  
Summers.eng.collective@gmail.com

#	Date	Revision:



NOTE:  
Cast in place manhole shown precast reinforced manhole acceptable.

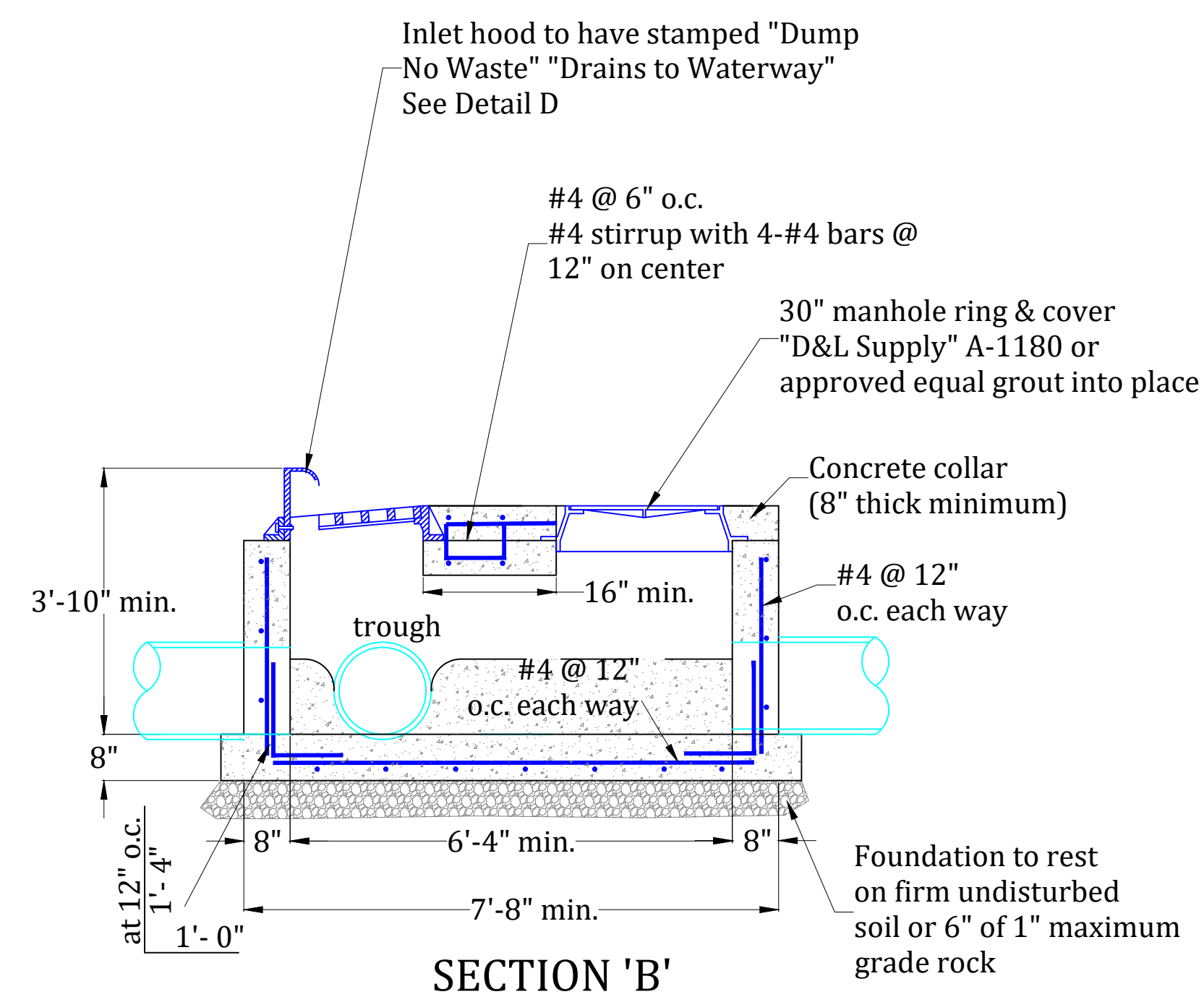
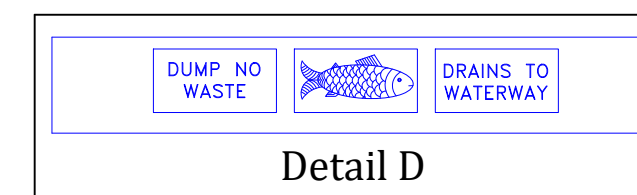
**STANDARD STORM DRAIN  
MANHOLE**

SCALE: NONE

1

Developer:  
**Judy Kent**  
Contact:  
Tony Kent: 385-502-1184

Approved for Construction  
\_\_\_\_\_  
Weber City Engineer  
Date: \_\_\_\_\_

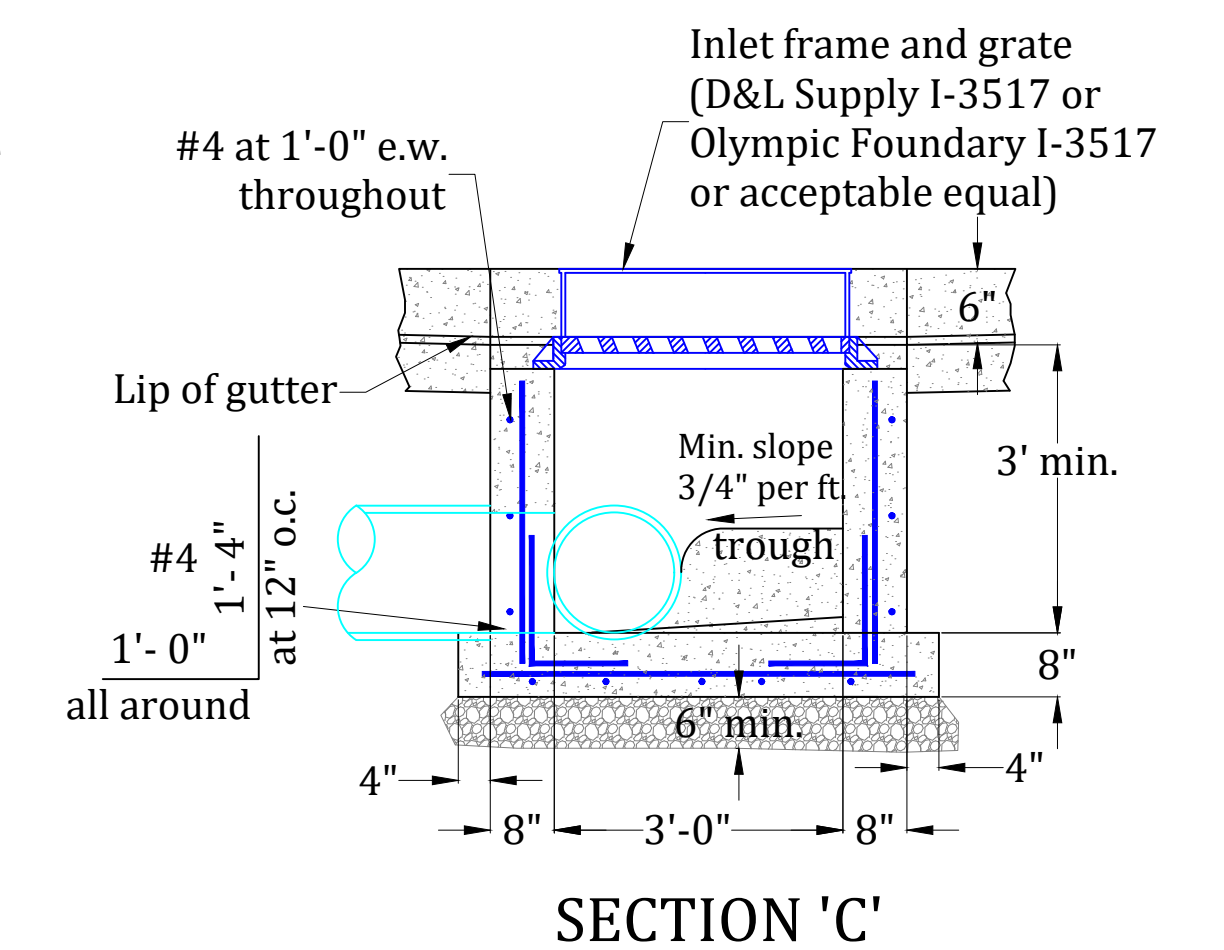
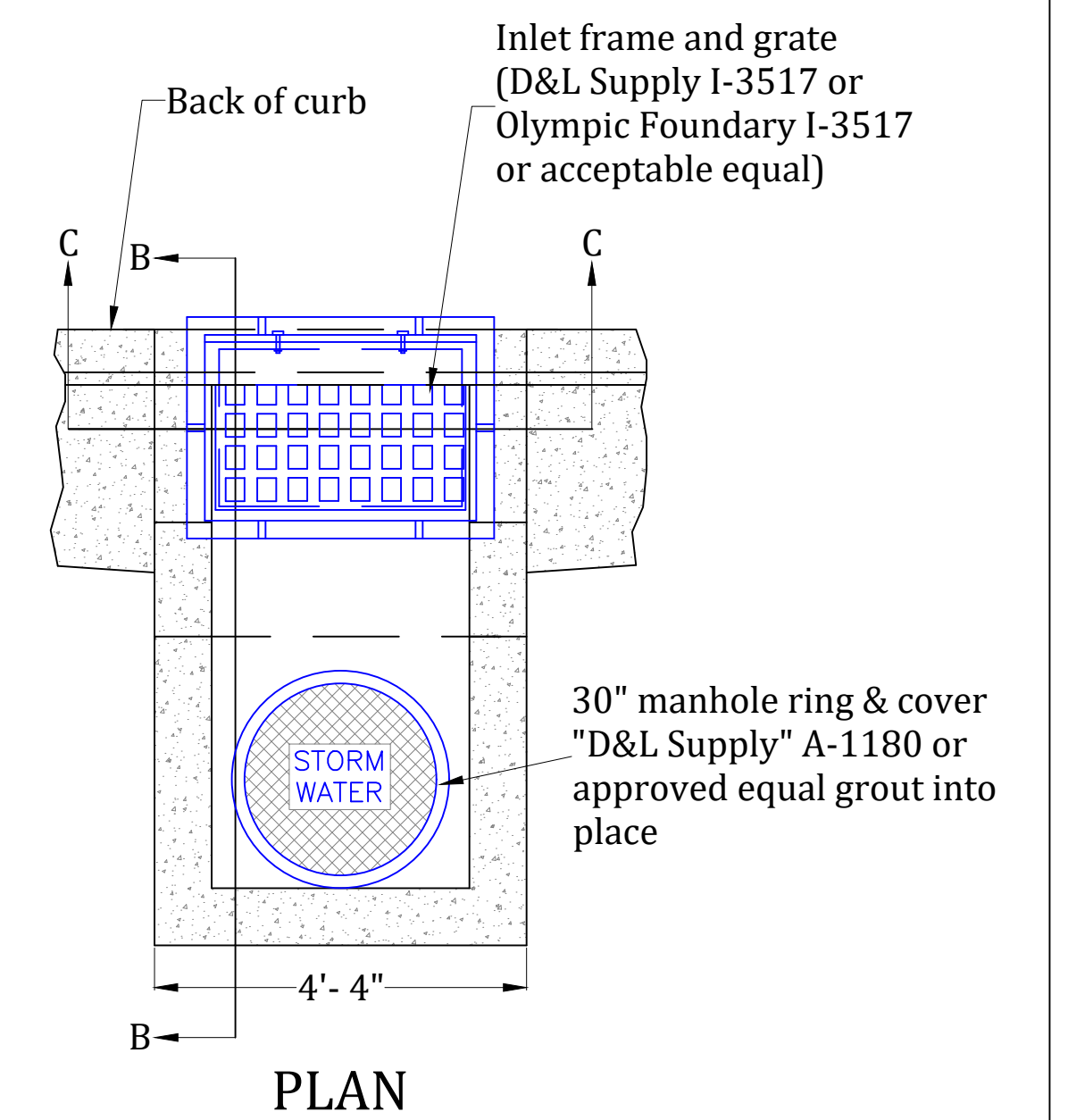


NOTE:  
Details here are for "cast-in-place" box.

**STANDARD STORM DRAIN  
COMBINATION BOX**

SCALE: NONE

2



Project:  
**KENT SUBDIVISION NO. 2  
IMPROVEMENT DRAWINGS  
WEBER COUNTY, UTAH**

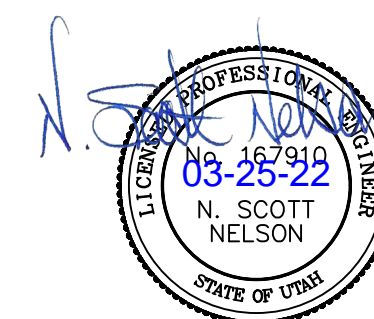
Title:  
**DETAILS: STORM DRAIN**

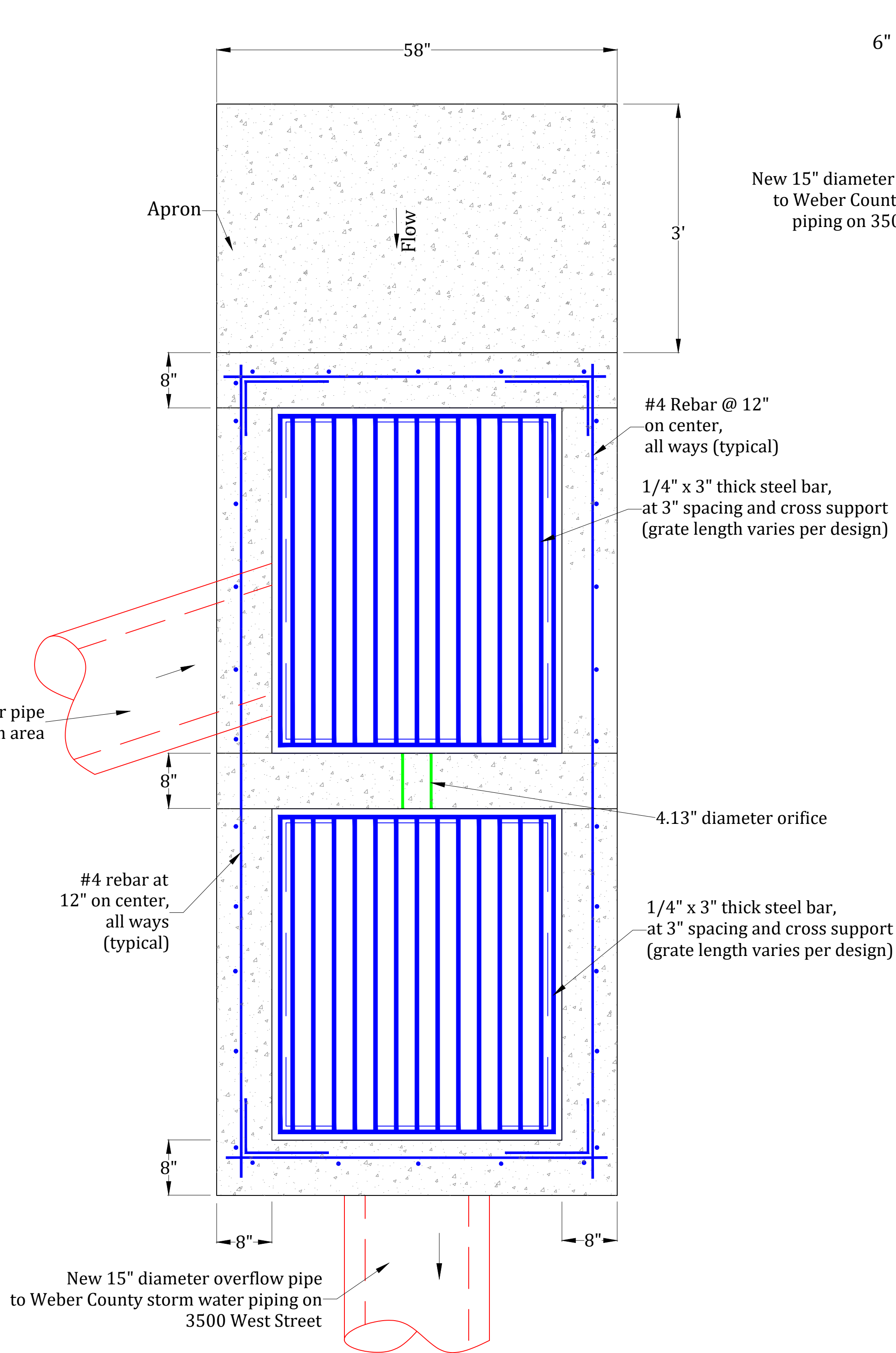
Date:  
25 MARCH 2022

Prepared By:  
**Summers Engineering Collective**  
- Jen Summers -  
Summers.eng.collective@gmail.com

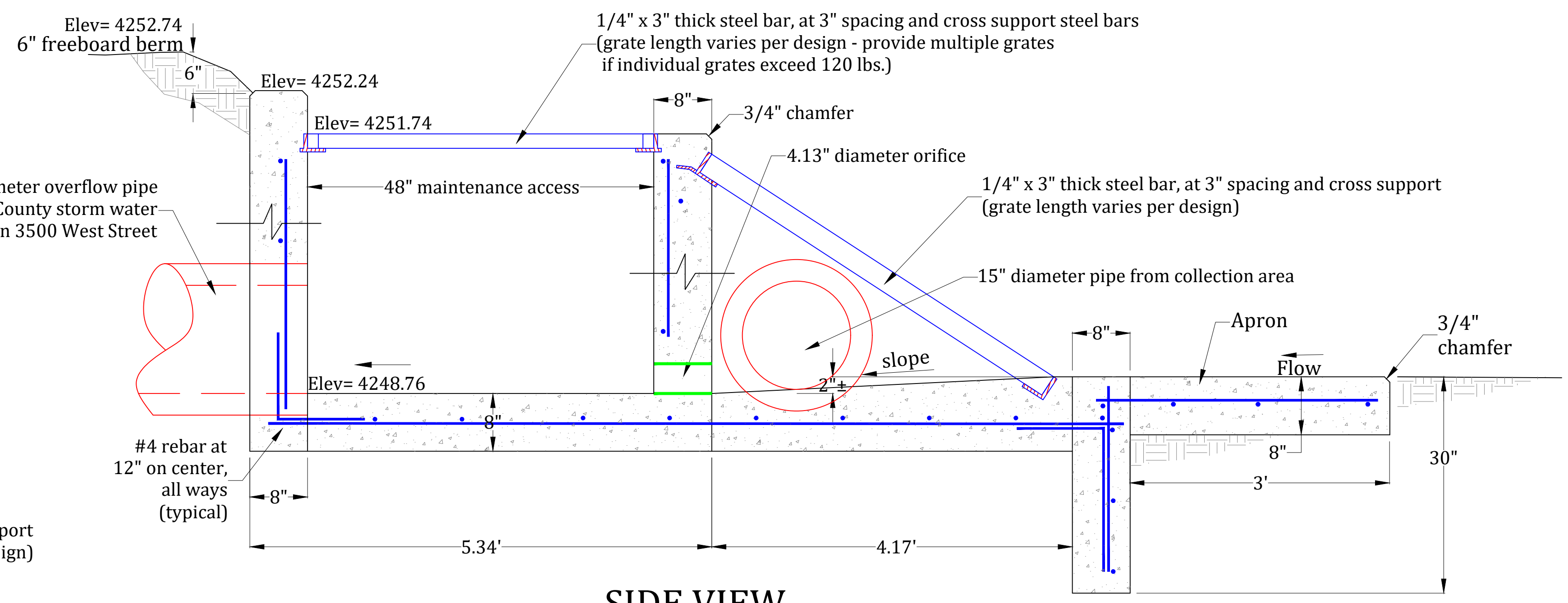
#	Date:	Revision:

Sheet 19 of 20



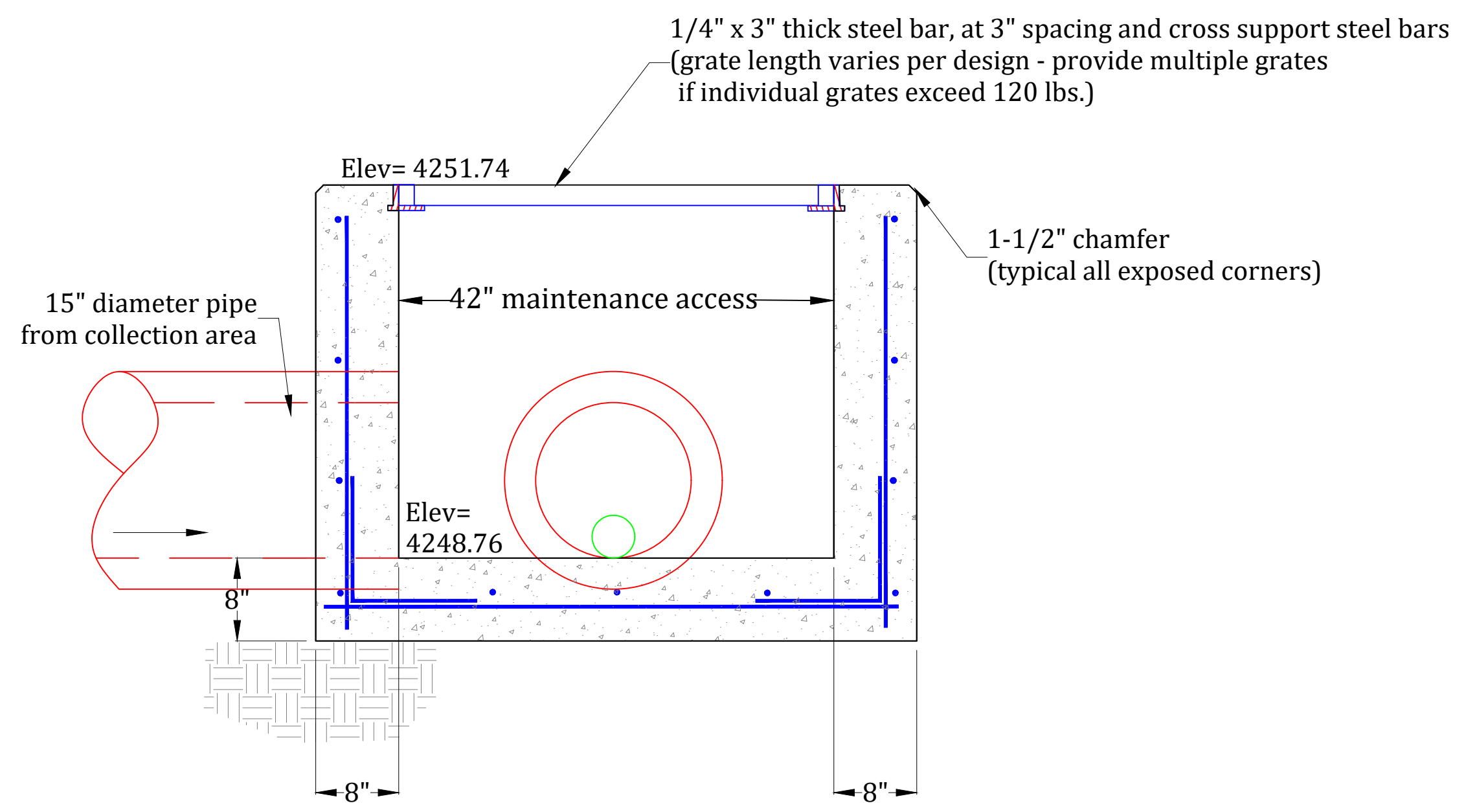


PLAN VIEW



SIDE VIEW

NOTE:  
All exposed concrete corners  
to have a 3/4" chamfered corner



SECTION VIEW

DETENTION BASIN  
INLET/OUTLET STRUCTURE  
SCALE: NONE

1

Project:		KENT SUBDIVISION NO. 2 IMPROVEMENT DRAWINGS WEBER COUNTY, UTAH	
Title:		DETAILS: DETENTION POND INLET/OUTLET STRUCTURE	
Date:		25 MARCH 2022	
Prepared By:		Summers Engineering Collective - Jen Summers - Summers.eng.collective@gmail.com	
#	Date:	Revision:	

Developer:  
Judy Kent  
Contact:  
Tony Kent: 385-502-1184

Approved for Construction  
Weber City Engineer  
Date: \_\_\_\_\_

