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DATE	02-16-17
DESIGN	KAN
DRAWN	KAN
CHECKED	PC

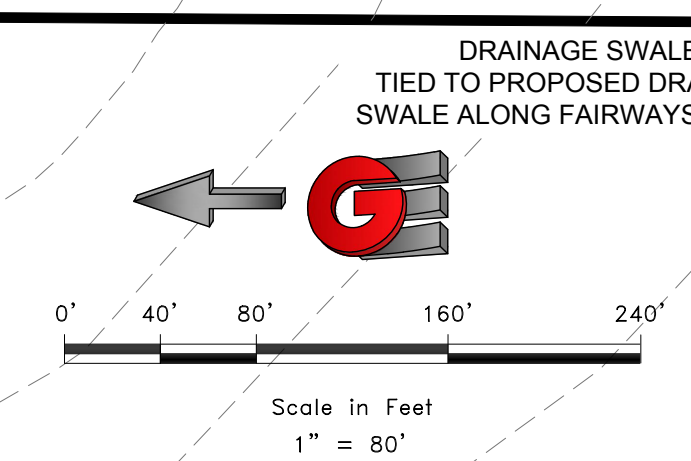
REVISIONS	DESCRIPTION
DATE	



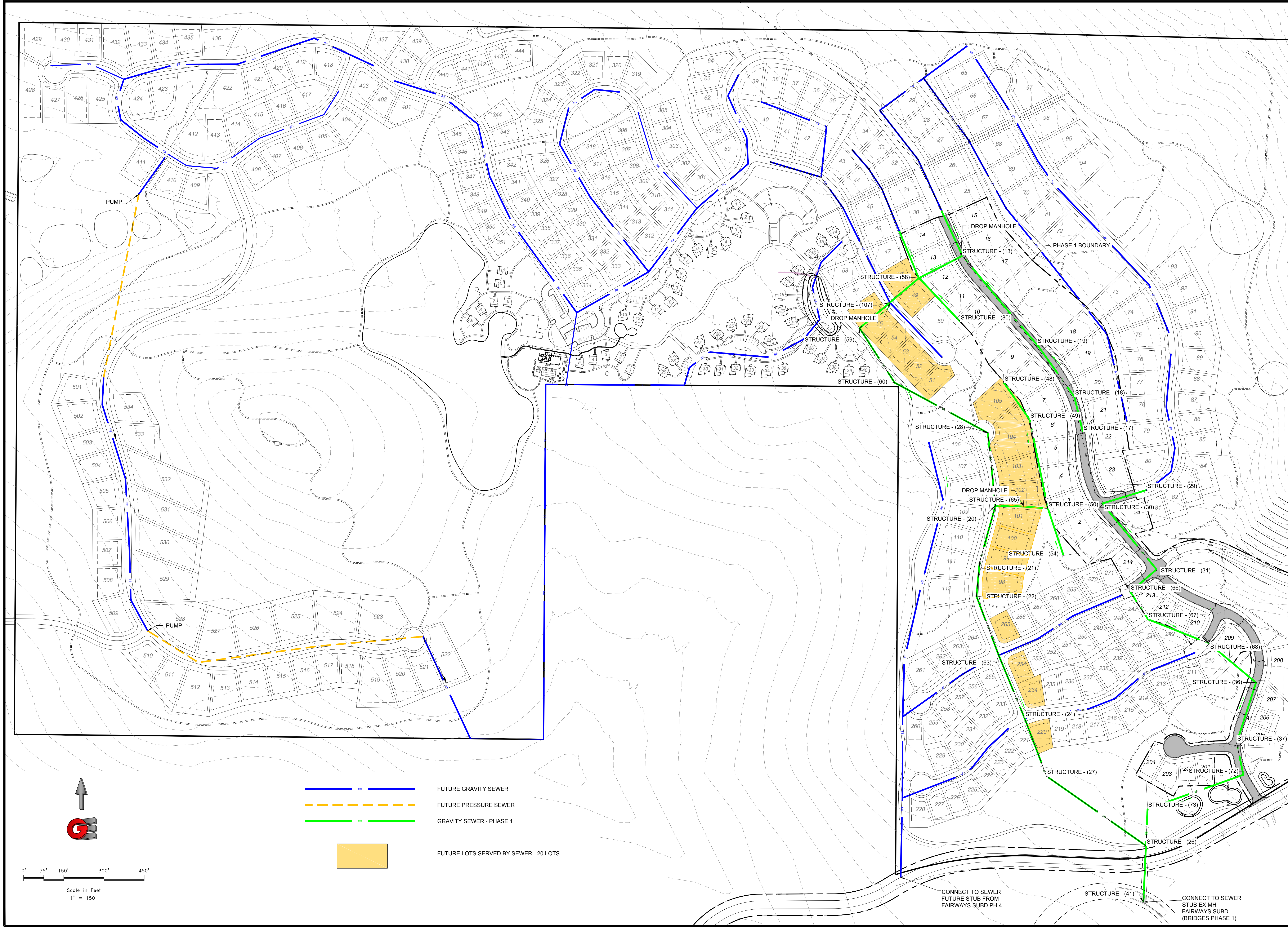
SITE PLAN PHASE 1
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

GARDNER ENGINEERING
 CIVIL - LAND PLANNING
 MUNICIPAL - LAND SURVEYING
 5150 SOUTH 375 EAST OGDEN, UT
 OFFICE: 801-476-0202 FAX: 801-476-0066

SP1
25



R:\031 - Eden\Bridges\The Bridges\Bridges\SP1.dwg, 02/16/17 2:54:00 PM, ANCT:R:\Bridges\The Bridges\Bridges\SP1.dwg, 02/16/17 2:54:00 PM



DATE	REVISIONS	DESCRIPTION



SEWER MASTER PLAN MAP
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

GARDNER ENGINEERING
CIVIL - LAND PLANNING
MUNICIPAL - LAND SURVEYING

5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801.476.0202 FAX: 801.476.0066

UT1
25

SCALE: 1" = 150'
DATE: 02-16-17
DESIGN: KAN
DRAWN: KAN
CHECKED: PC
DWG#: 141101 - LOTS SERVED BY SEWER (BRIDGES PHASE 1).DWG

Scale in Feet
1" = 150'

— — — — — FUTURE GRAVITY SEWER

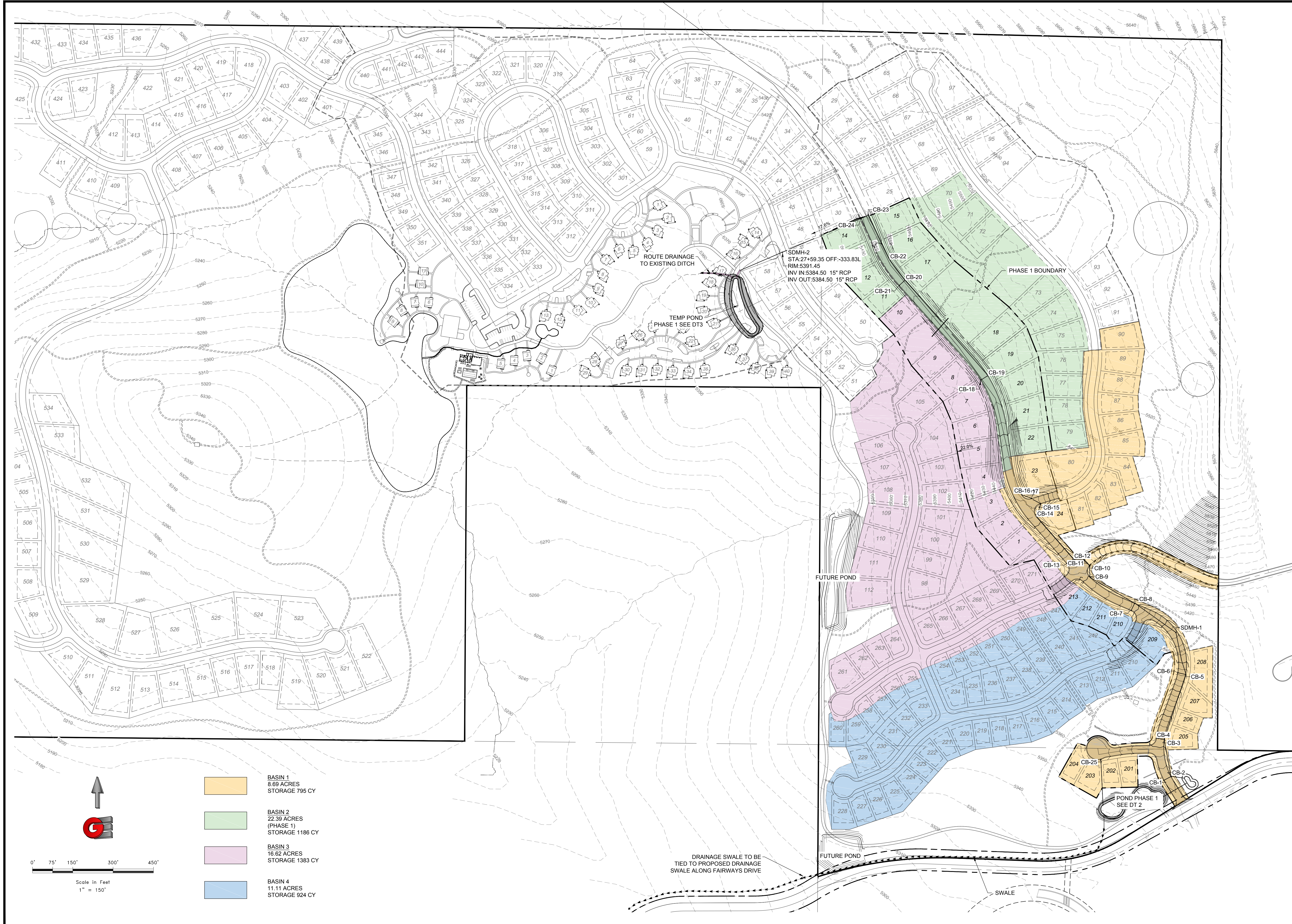
- - - - - FUTURE PRESSURE SEWER

— — — — — GRAVITY SEWER - PHASE 1

■ FUTURE LOTS SERVED BY SEWER - 20 LOTS

CONNECT TO SEWER
FUTURE STUB FROM
FAIRWAYS SUBD PH 4.

CONNECT TO SEWER
STUB EX MH
FAIRWAYS SUBD.
(BRIDGES PHASE 1)



DATE	REVISIONS	DESCRIPTION

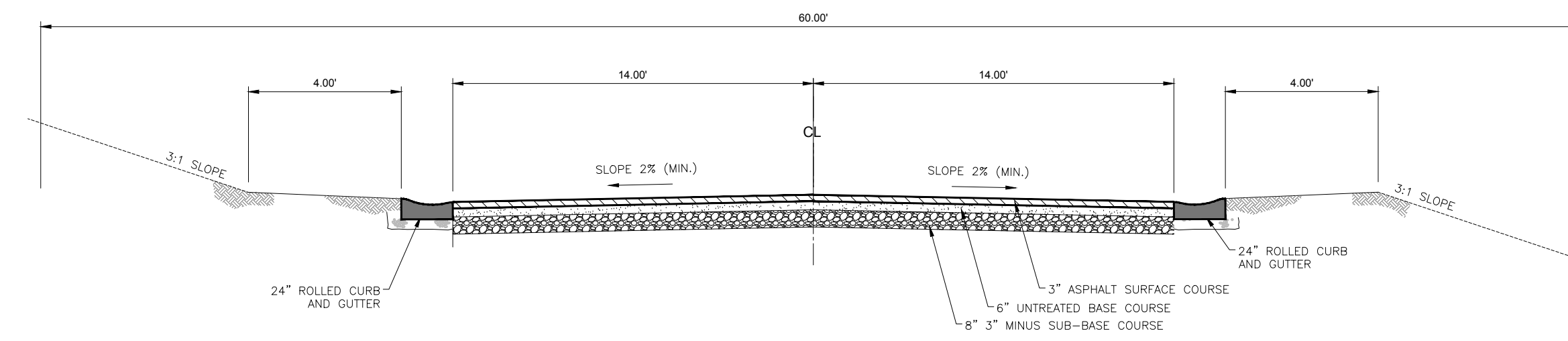


OVERALL DRAINAGE MAP
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

GARDNER ENGINEERING
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 MUNICIPAL - LAND SURVEYING
 5150 SOUTH 375 EAST OGDEN, UT
 OFFICE: 801-476-0202 FAX: 801-476-0066

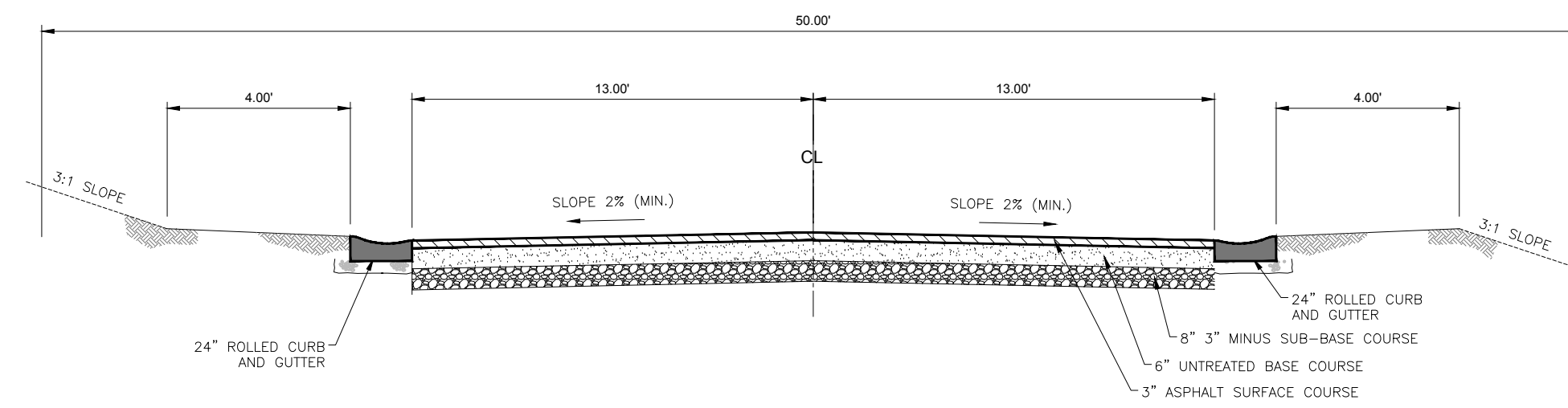
DR1
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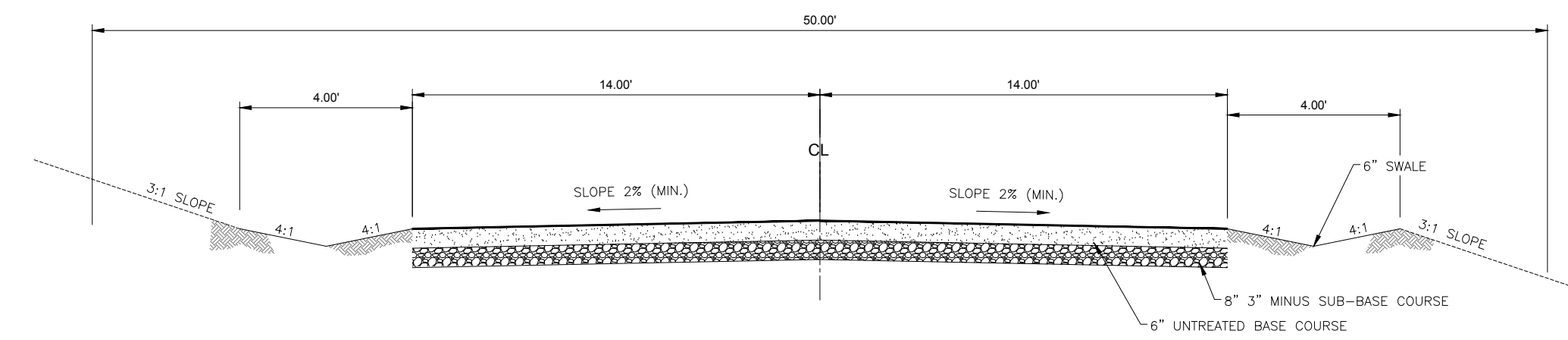
60' ROW - TYPICAL ROADWAY

NOT TO SCALE



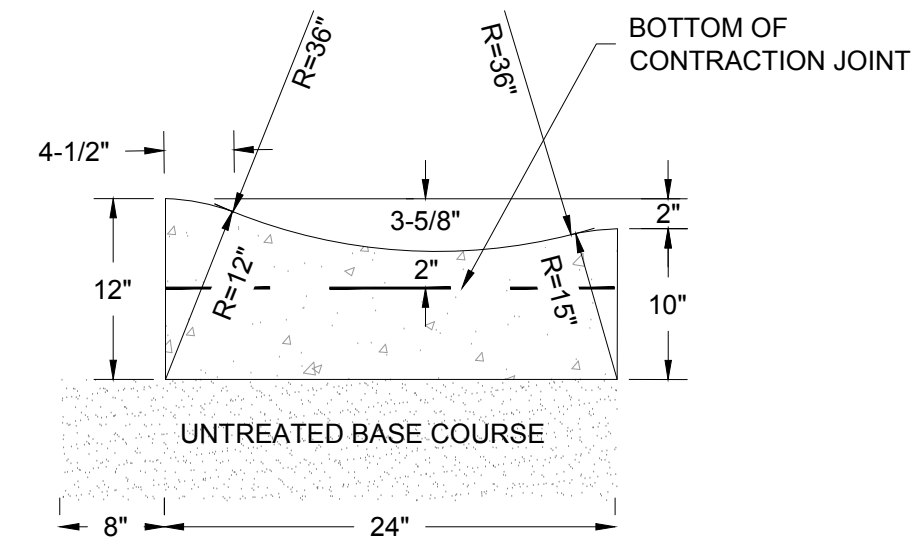
50' ROW - TYPICAL ROADWAY

NOT TO SCALE



50' ROW - TYPICAL ROADWAY NO CURB

NOT TO SCALE



24" ROLLED CURB AND GUTTER

N.T.S.

SCALE	*****
DATE	02-16-17
DESIGN	KAN
DRAWN	KAN
CHECKED	PC

REVISIONS	DESCRIPTION
DATE	



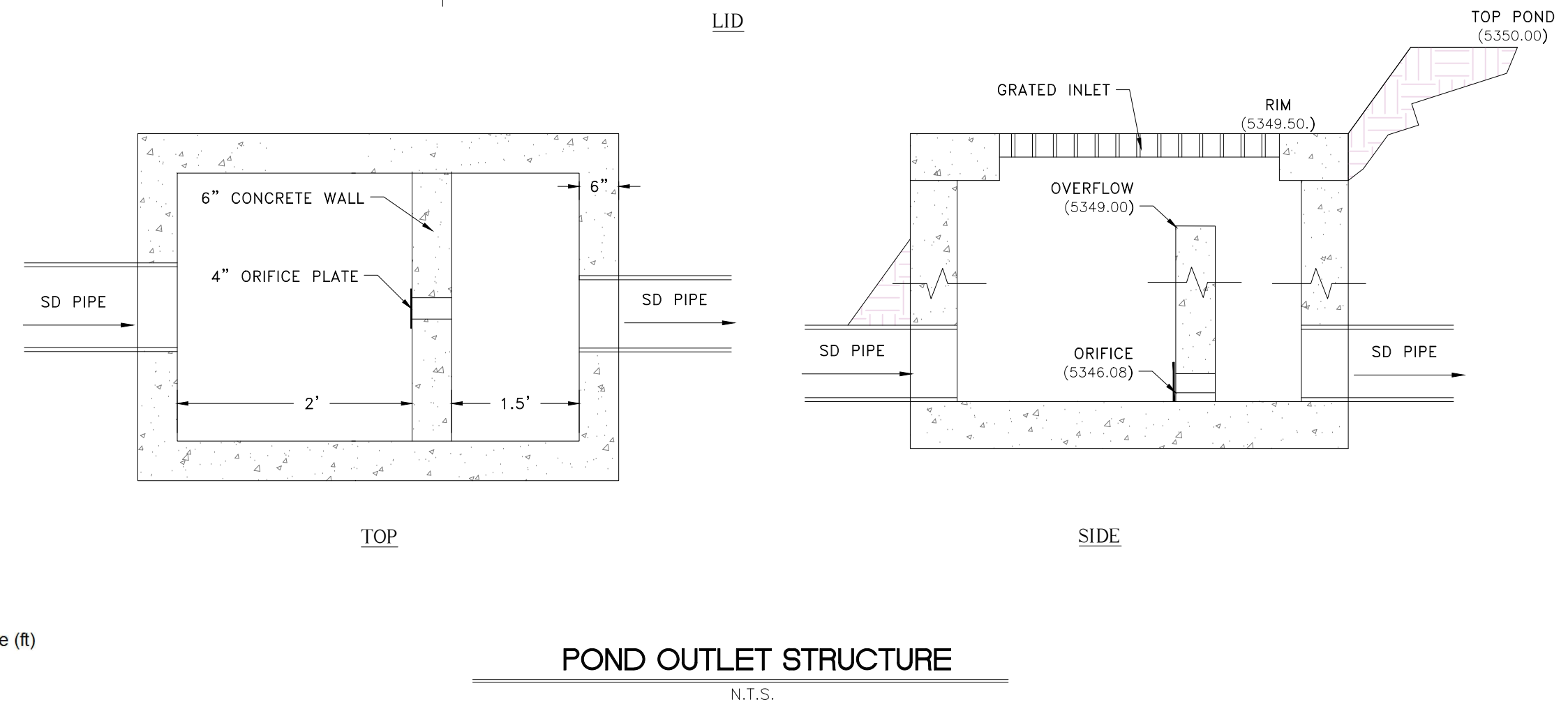
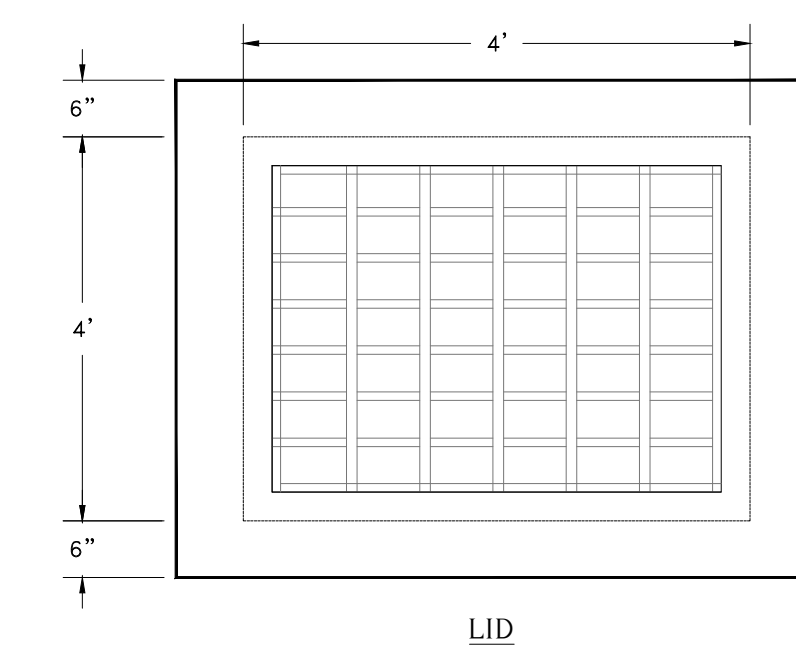
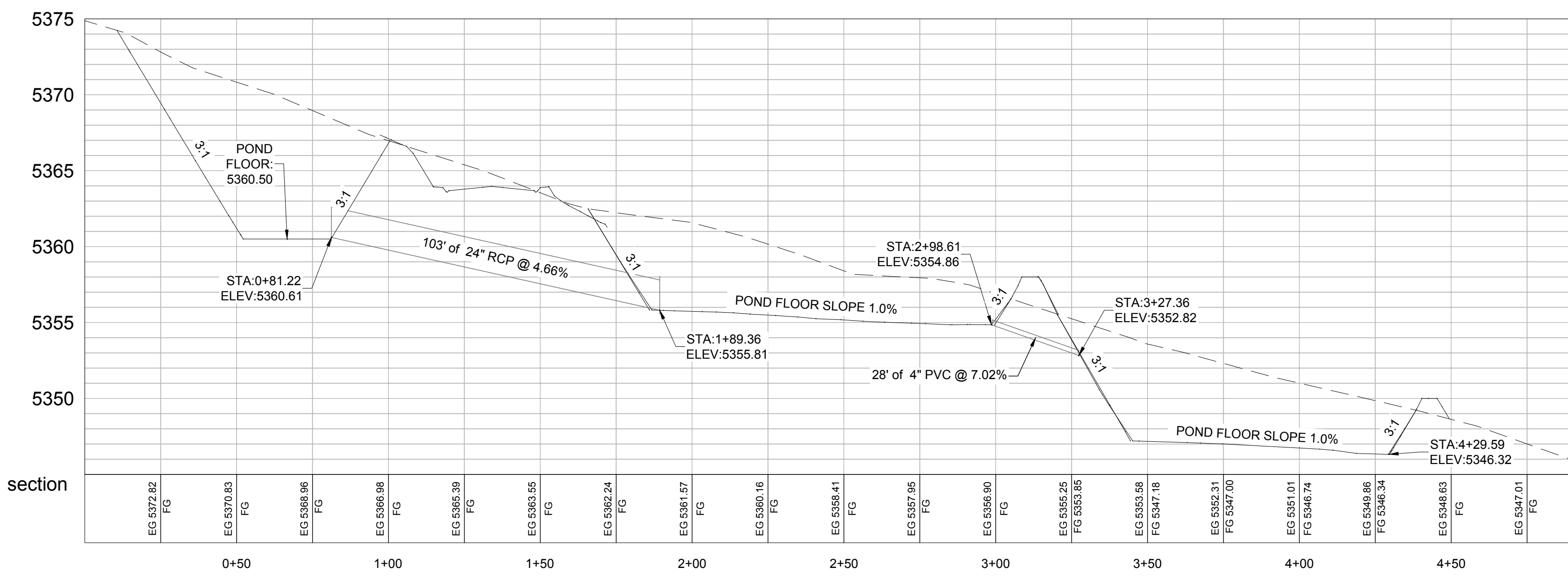
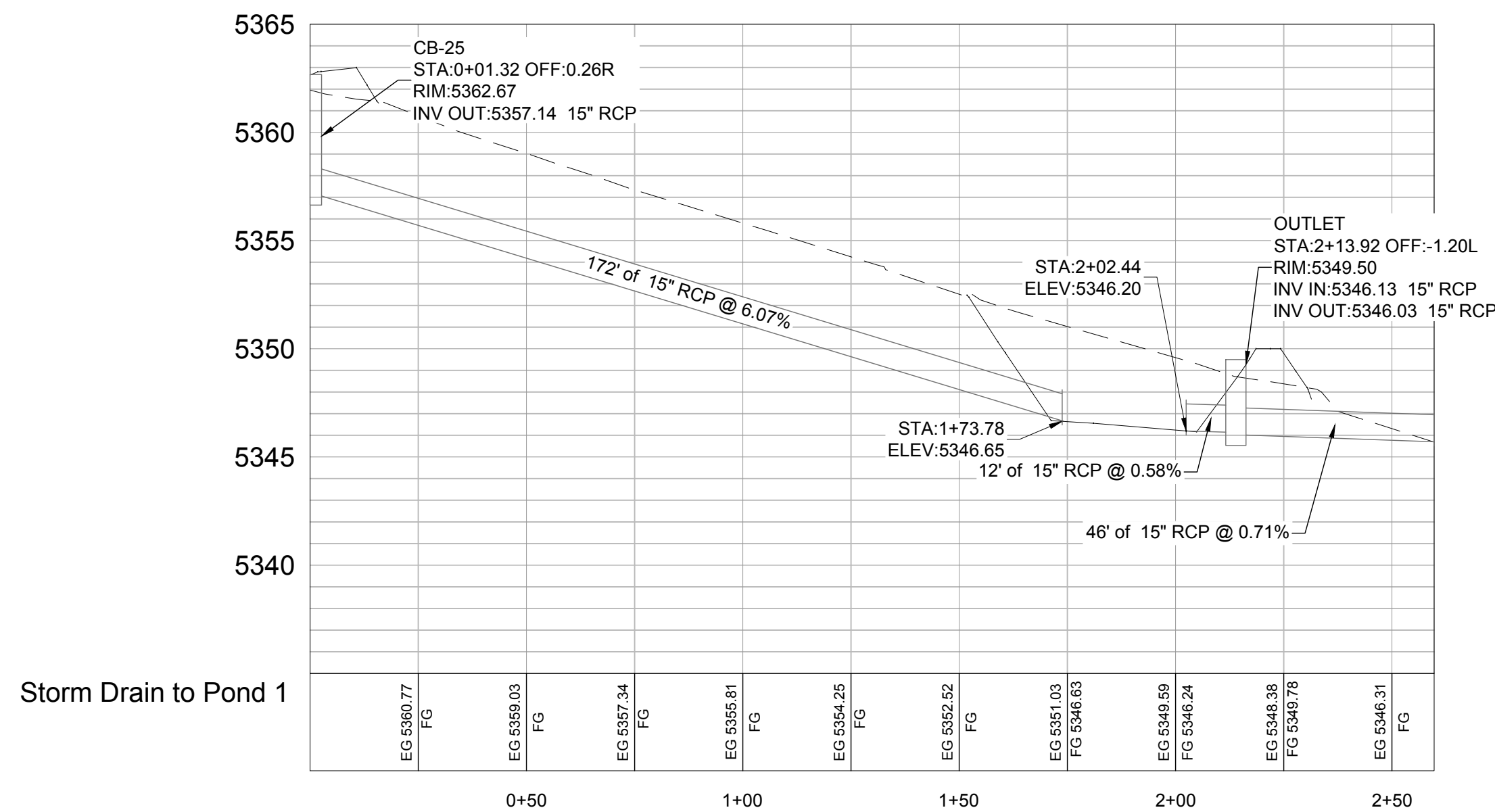
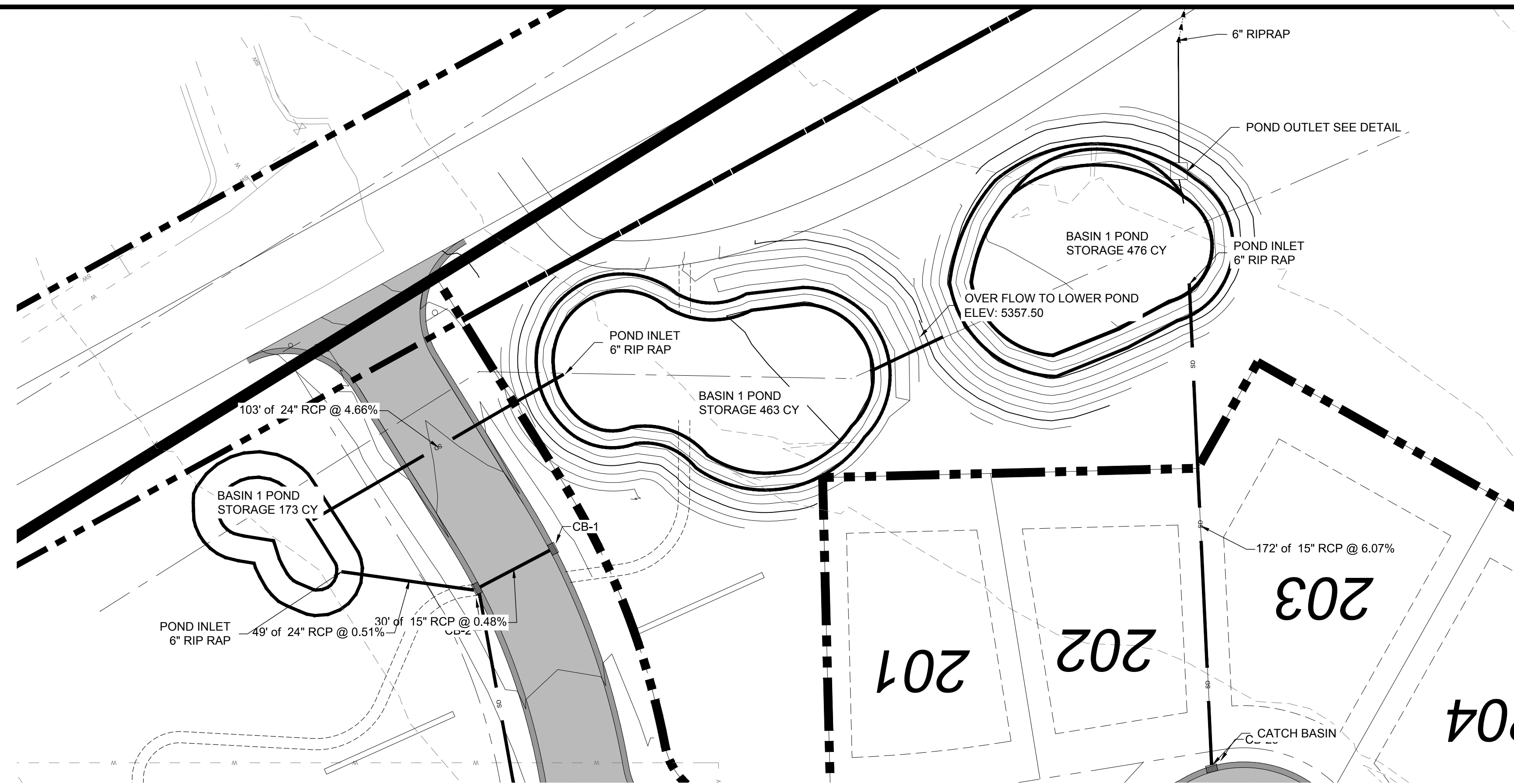
ROADWAY CROSS SECTIONS
 THE BRIDGES
 PHASE 1
 EDEN, WEBER COUNTY, UTAH

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 MUNICIPAL • LAND SURVEYING
 5150 SOUTH 375 EAST OGDEN, UT
 OFFICE: 801.476.0202 FAX: 801.476.0066

DT1
 25

DEVELOPER
 LEWIS HOMES
 Eric Householder
 WOLF CREEK
 801-389-0040

R:\0311 - Lewis Homes\The Bridges\Bridges\DWG\The Bridges Design\Bridges - 0322017-14.dwg, 03/22/17 2:54:09 PM, R:\CIT\all\mod\1\1\1.dwg, 3/20/17 10:00:00 AM



**Drainage Basin 1
The Bridges**

Latitude: 41.3378° Longitude: -111.8347°

Areas	Sq. Ft.	Acre	C
Basin 1 area	378,702	8.69	0.43
Total/Weighted	378,702	8.69	0.43

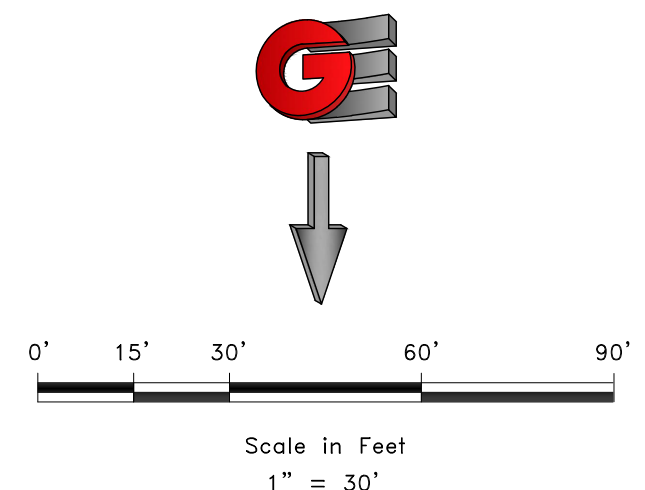
RELEASE RATE 0.1 cfs/ACRE (0.87 cfs)

100 YEAR STORM EVENT

MIN	Release Vol (cf)	Inch / Hr	Total Vol (cf)	Detain Vol (cf)
5	261	7.88	8,837	8,577
10	522	6.00	13,458	12,936
15	782	4.96	16,688	15,905
30	1,565	3.34	22,475	20,910
60	3,130	2.06	27,723	24,594
120	6,260	1.23	33,107	26,847
180	9,389	0.85	34,318	24,928
360	18,779	0.49	39,566	20,788
720	37,557	0.31	50,064	12,506
1440	61,368	0.19	61,368	0

Orifice Calculation

- H = 3 Maximum water height to center of orifice (ft)
- Q = 0.87 Flowrate out of orifice (cfs)
- Cc = 0.62 Coefficient of Contraction
- Cv = 0.98 Coefficient of Velocity
- Area = 0.103 Orifice Area (ft²)
- II = 3.14
- g = 32.17 Gravitational Constant
- d = 4 Orifice Diameter (in)

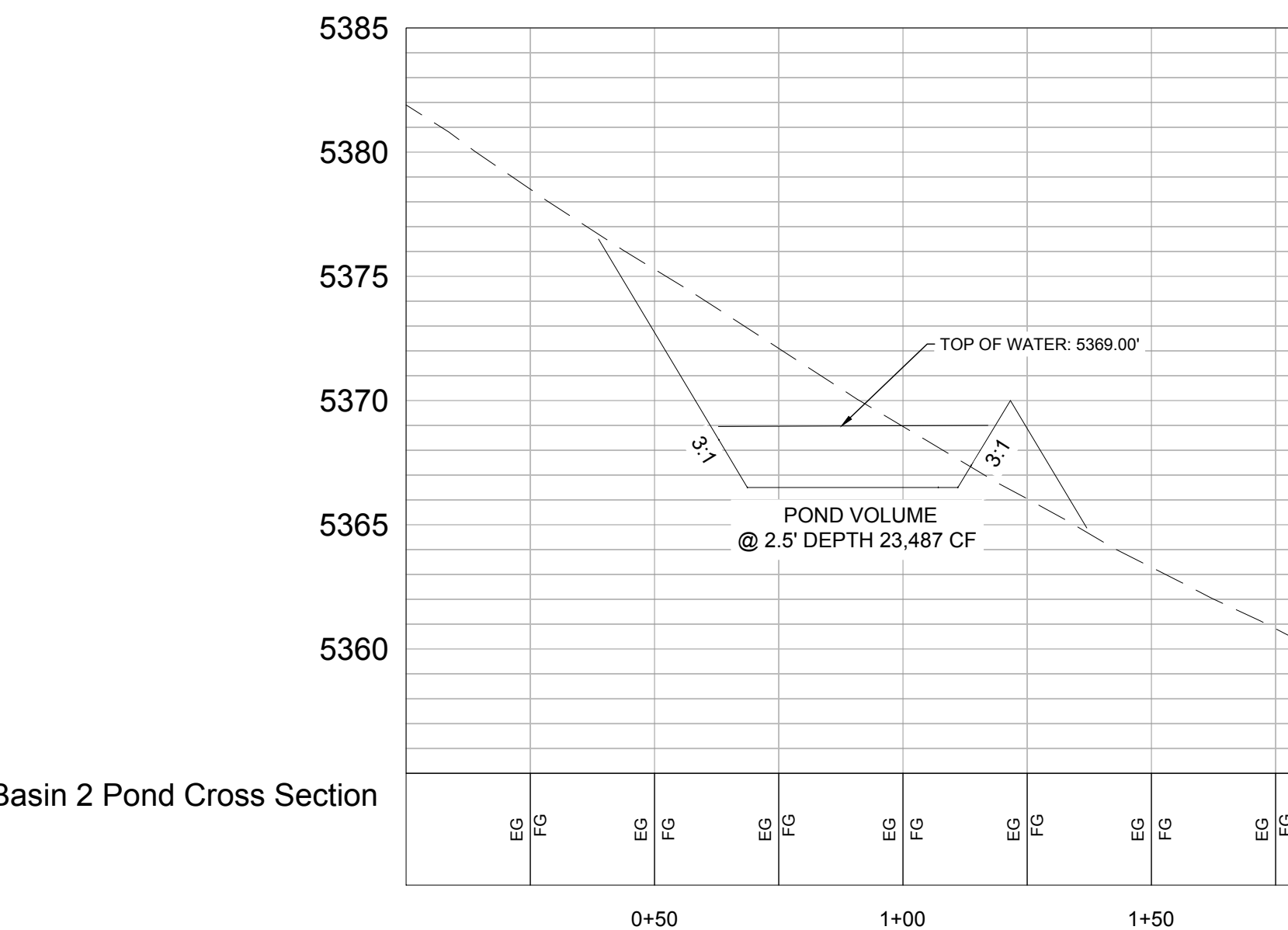
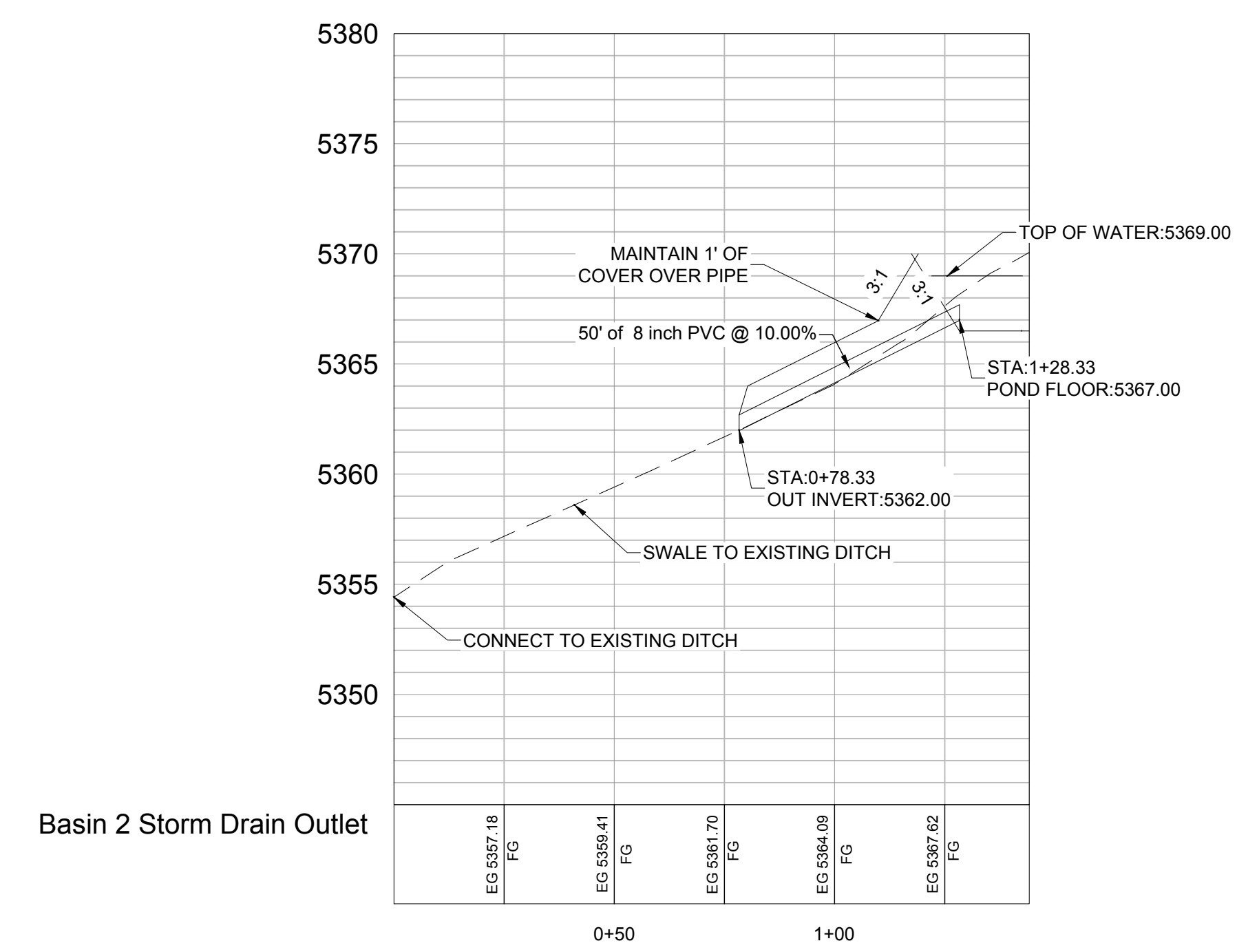
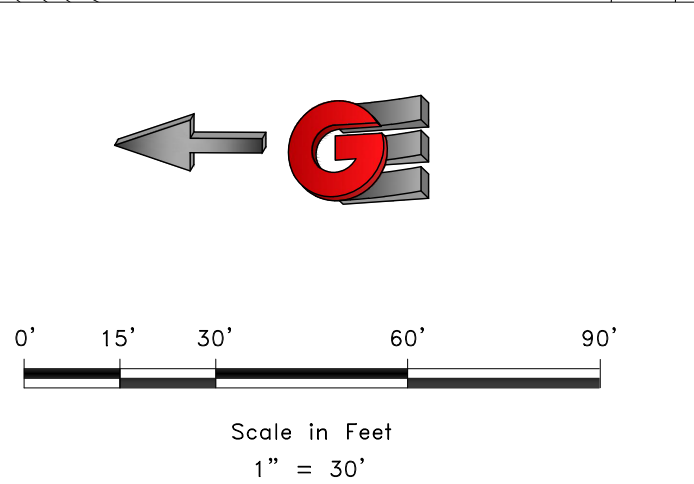
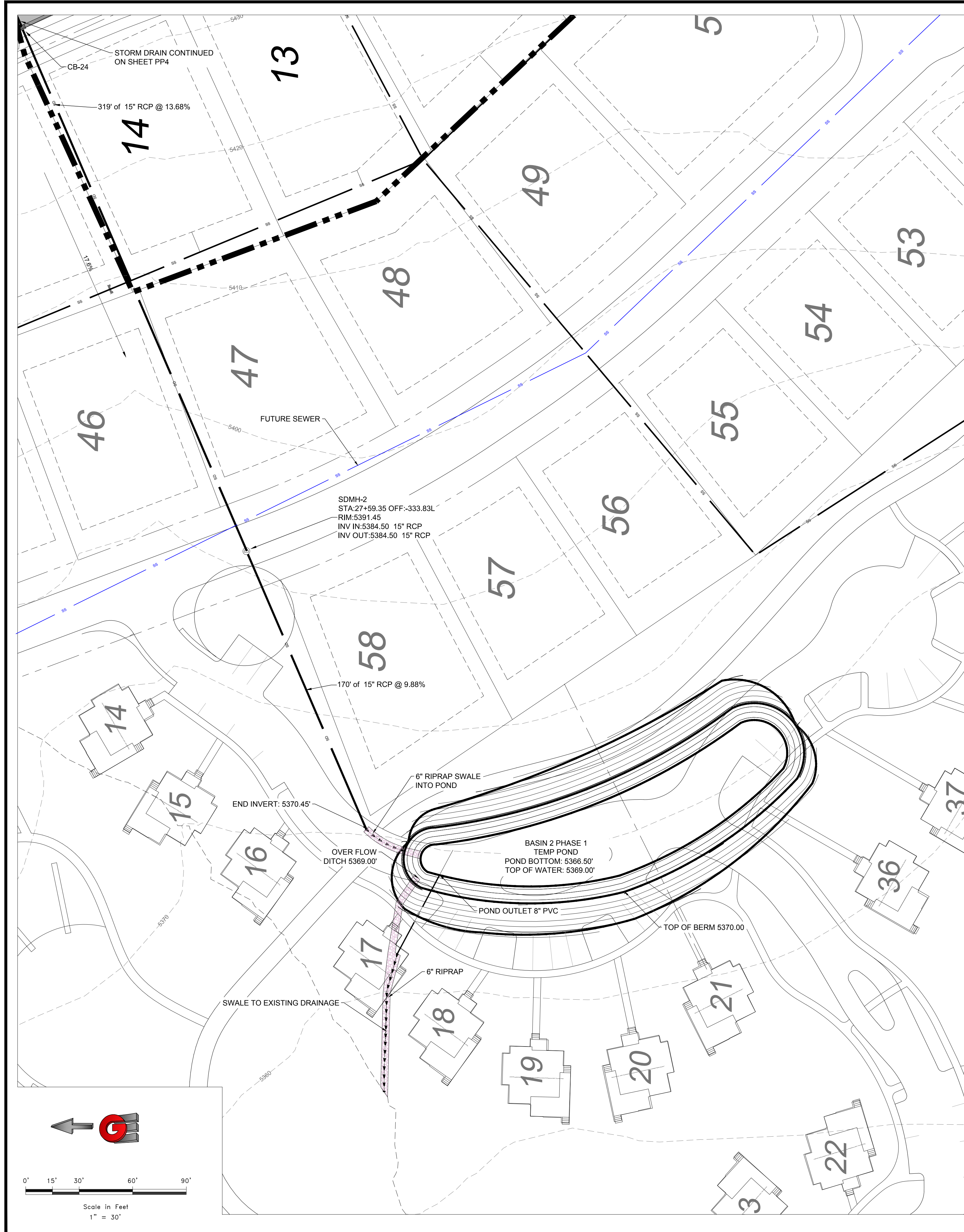


SCALE	1"=30'
DATE	02-16-17
DESIGN	KAN
DRAWN	KAN
CHECKED	RC

BASIN 1 POND DETAILS
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

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DT2
 25



**Drainage Basin 2
The Bridges**

Latitude: 41.3378° Longitude: -111.8347°

Areas	Sq. Ft.	Area Acre	C
Basin 1 area	520,200	11.94	0.30
Total/Weighted	520,200	11.94	0.30

Allow Release Rate (cfs/acre) **0.1**
Q Allowable (cfs) 1.19

Orifice Calculation

H = 2.5 Maximum water height to center of orifice (ft)
 Q = 1.19 Flowrate out of orifice (cfs)
 Cc = 0.62 Coefficient of Contraction
 Cv = 0.98 Coefficient of Velocity
 Area = 0.155 Orifice Area (ft²)
 H = 3.14
 g = 32.17 Gravitational Constant
 d = 8 Orifice Diameter (in)

100 YEAR STORM EVENT

MIN	Release Vol (cf) Allowable	Inch / Hr i100	Total Vol (cf) 100 YEAR	Vol (cf) Difference
5	358	7.88	8,499	8,140
10	717	6.00	12,942	12,225
15	1,075	4.96	16,048	14,973
30	2,150	3.34	21,613	19,463
60	4,299	2.06	26,660	22,361
120	8,598	1.23	31,837	23,239
180	12,897	0.85	33,002	20,104
360	25,795	0.49	38,049	12,254
720	48,144	0.31	48,144	0
1440	99,015	0.19	59,015	0

SCALE: 1" = 30'

REVISIONS	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKED
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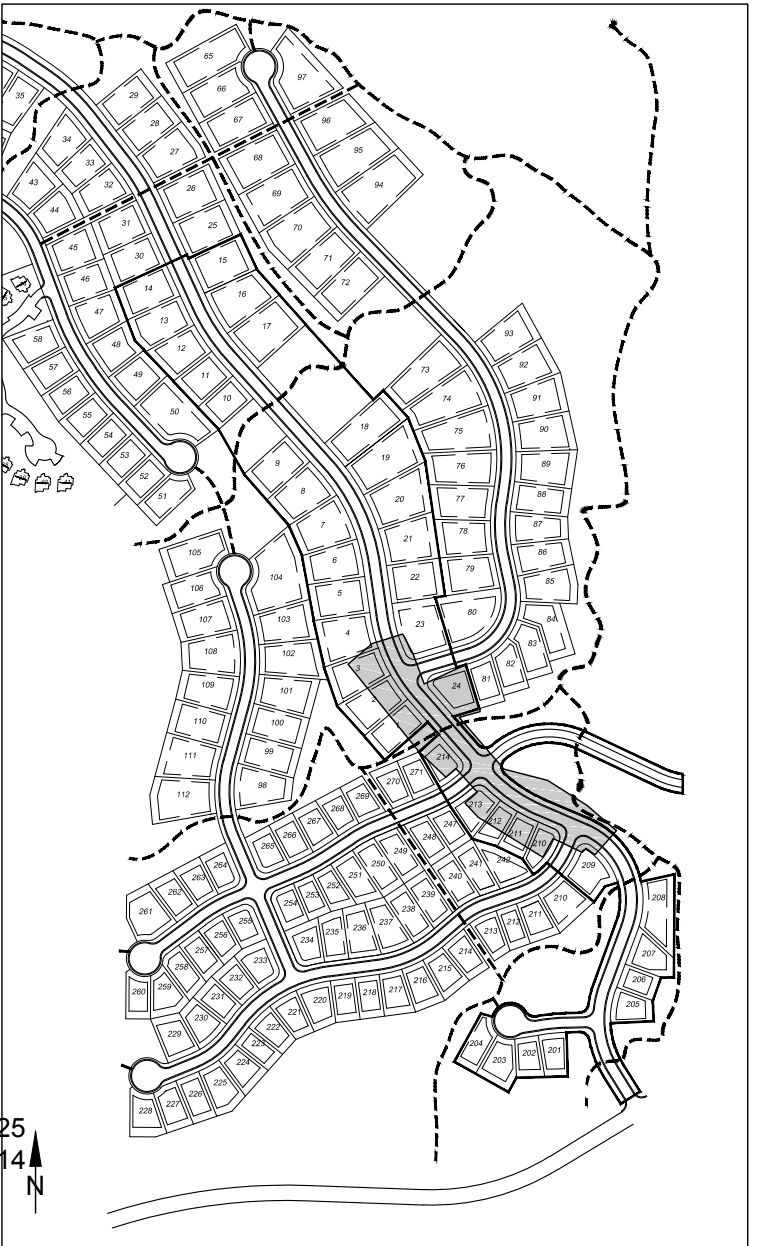
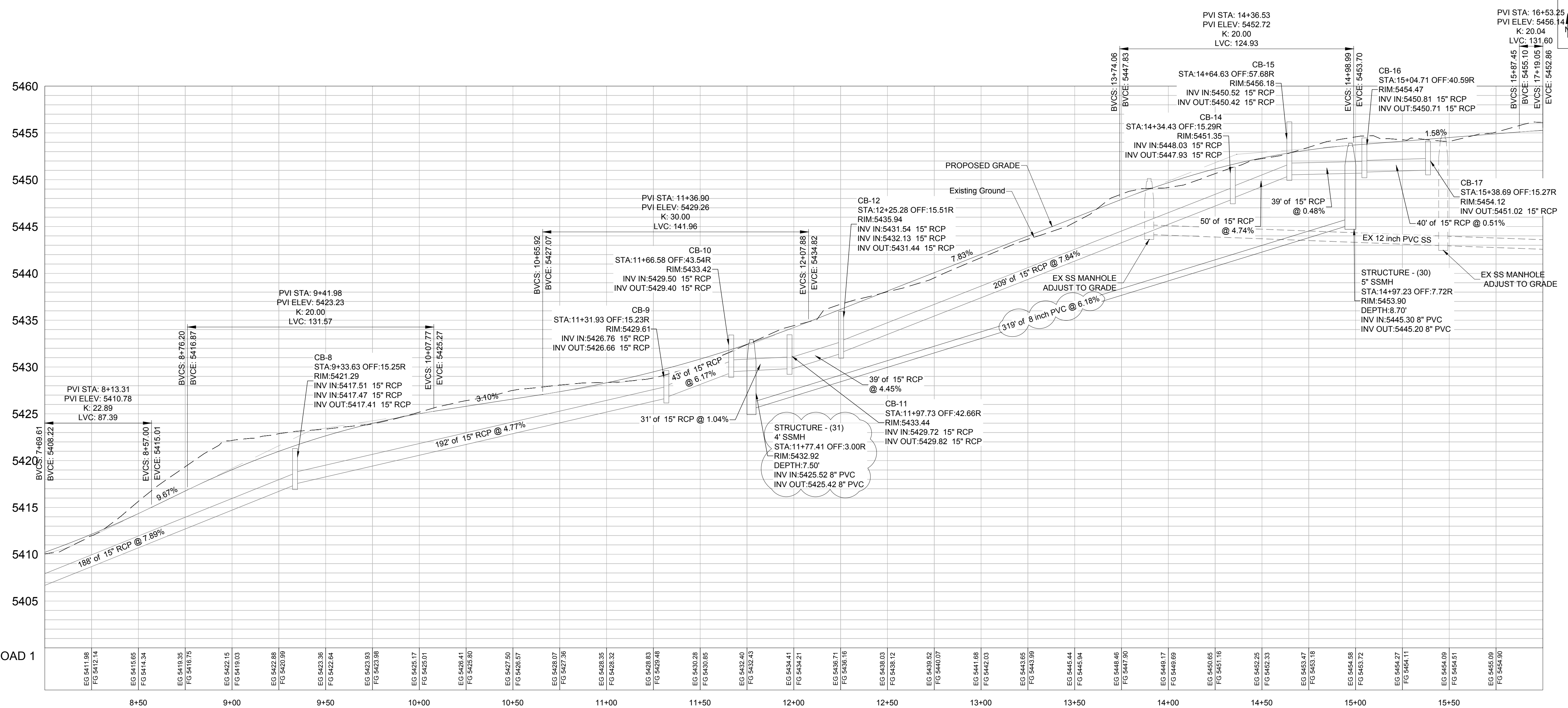
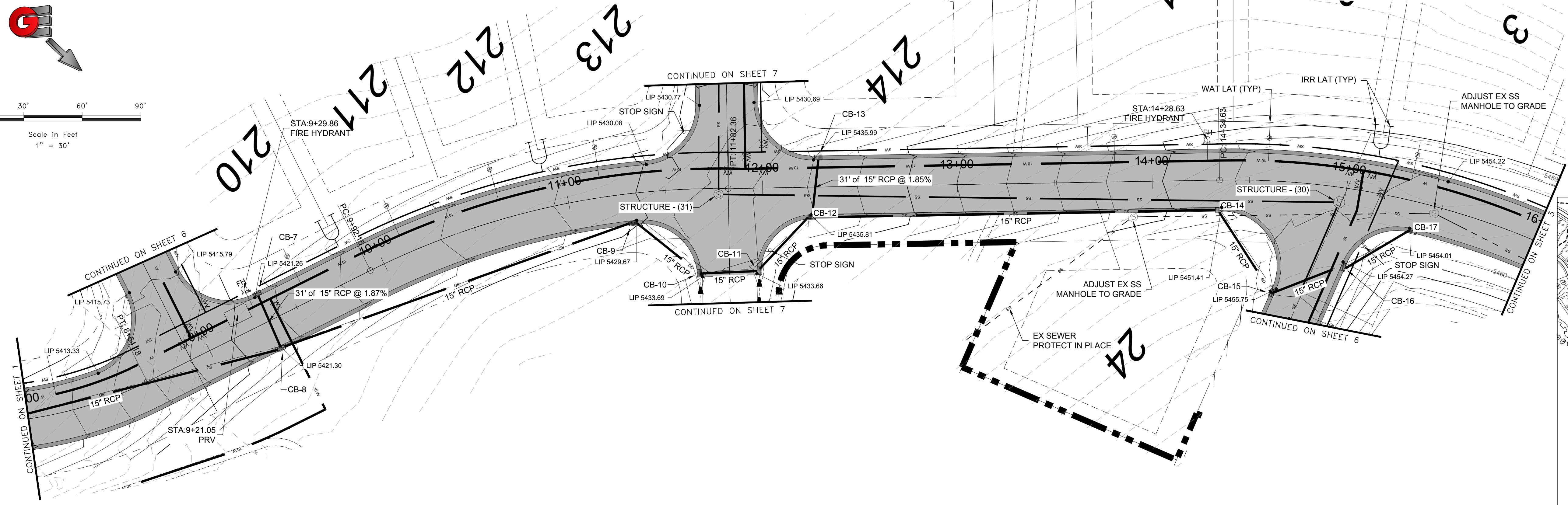
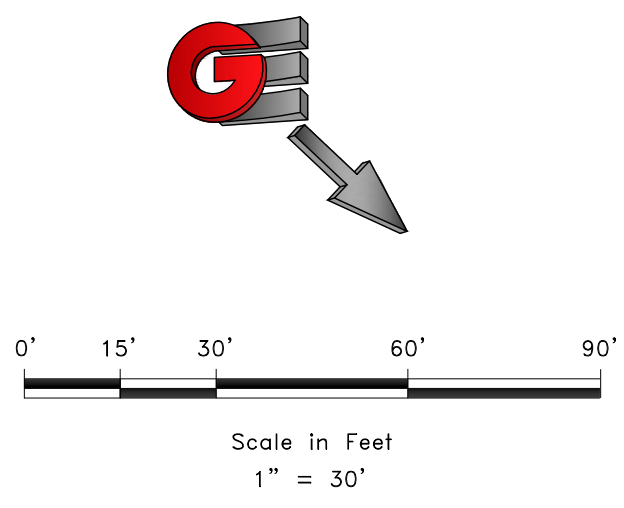
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DESIGN	KAN
DRAWN	KAN
CHECKED	PC



BASIN 2 POND DETAILS
THE BRIDGES
 PHASE 1
 EDEN, WEBER COUNTY, UTAH



DT3
25



SCALE: 1" = 30'

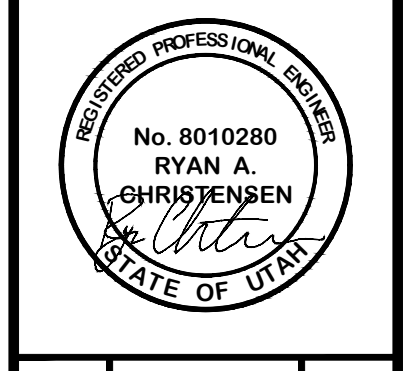
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DESIGN: KAN

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CHECKED: PC

REVISIONS	DATE	DESCRIPTION
1	3-29-17	REVISED SEWER DEPTH



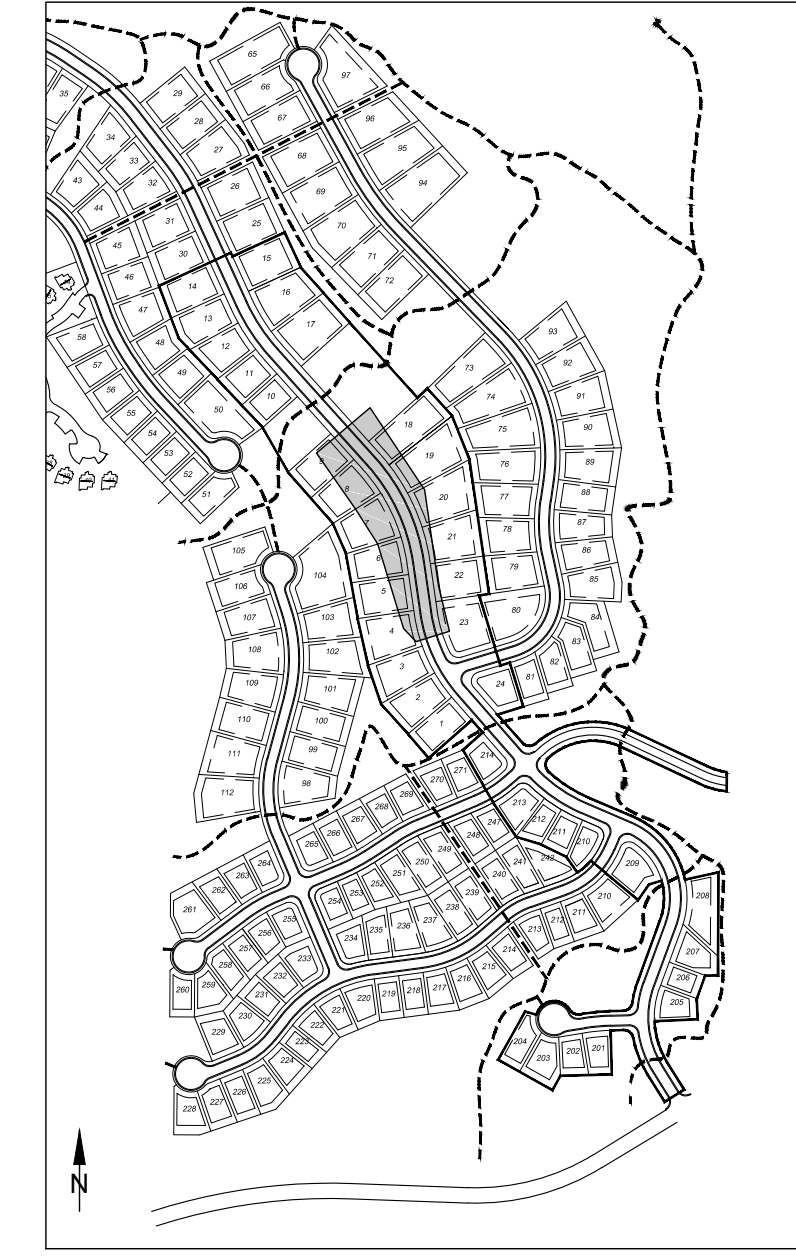
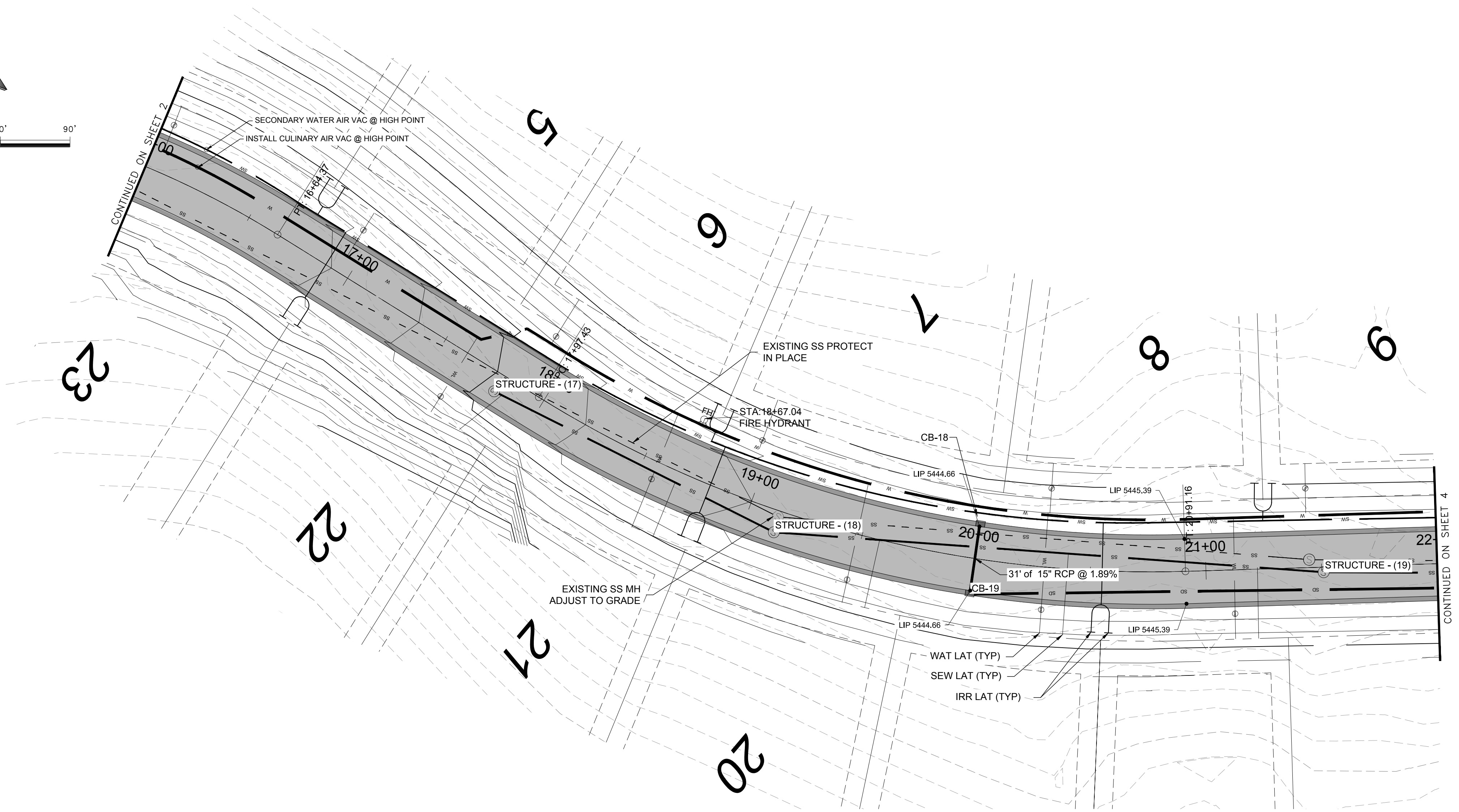
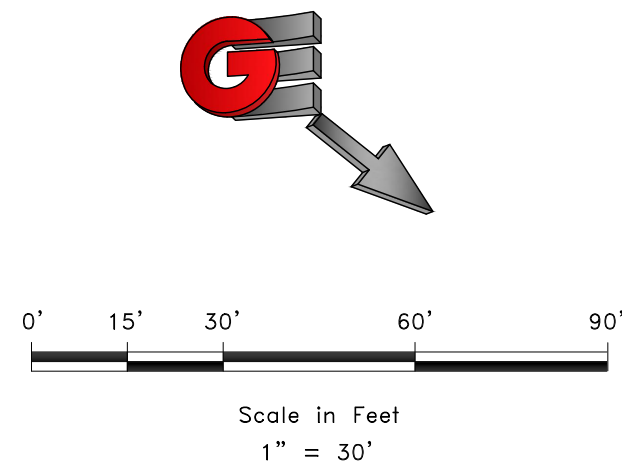
PLAN AND PROFILE
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

GARDNER ENGINEERING
CIVIL-LAND PLANNING
MUNICIPAL-LAND SURVEYING

5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801-476-0202 FAX: 801-476-0066

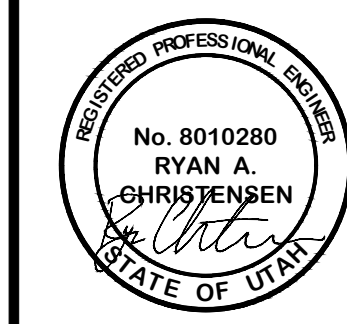
DEVELOPER
LEWIS HOMES
Eric Householder

R:\0311 - Eden Homes\The Bridges\Bridges\DWG\The Bridges\Profile.dwg, 03/29/17 2:55:07 PM, ANCFULL.dwg (1:1) (30.00) (1/1)



KEY MAP

REVISIONS	DATE	DESCRIPTION
	3-29-17	REVISED SEWER DEPTH



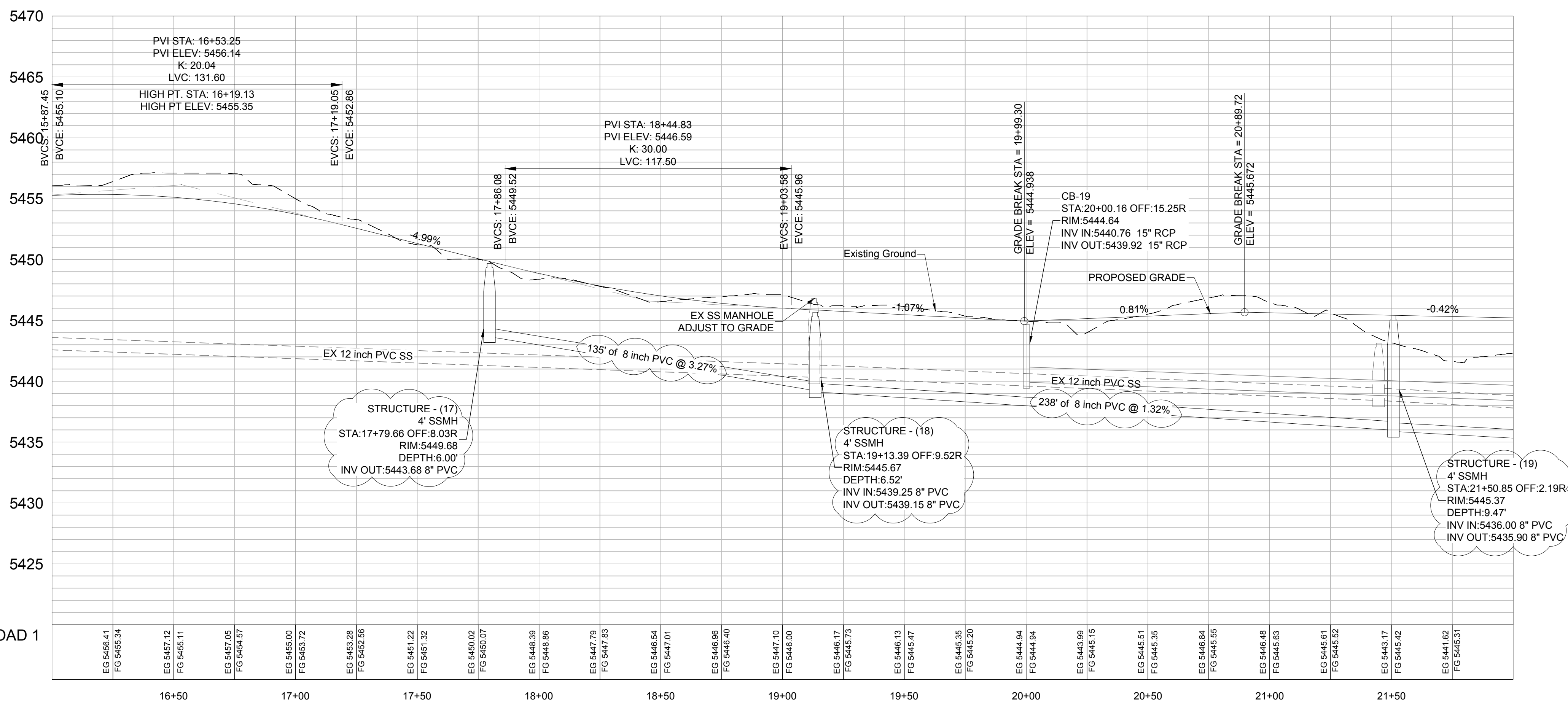
PLAN AND PROFILE
 THE BRIDGES
 PHASE 1
 EDEN, WEBER COUNTY, UTAH



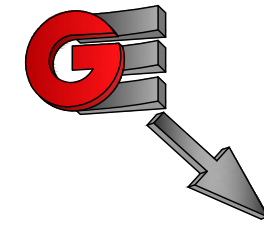
PP3
 25

DEVELOPER:
 LEWIS HOMES
 Eric Householder
 WOLF CREEK
 801-389-0040

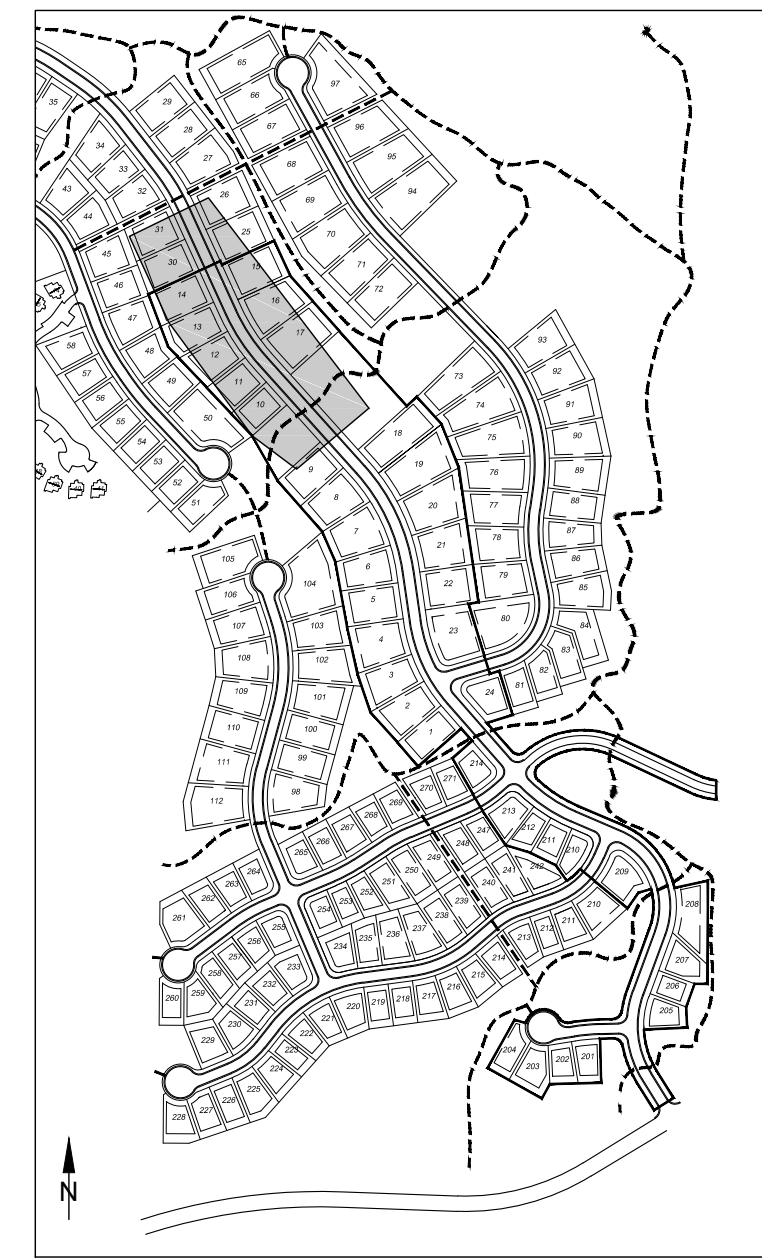
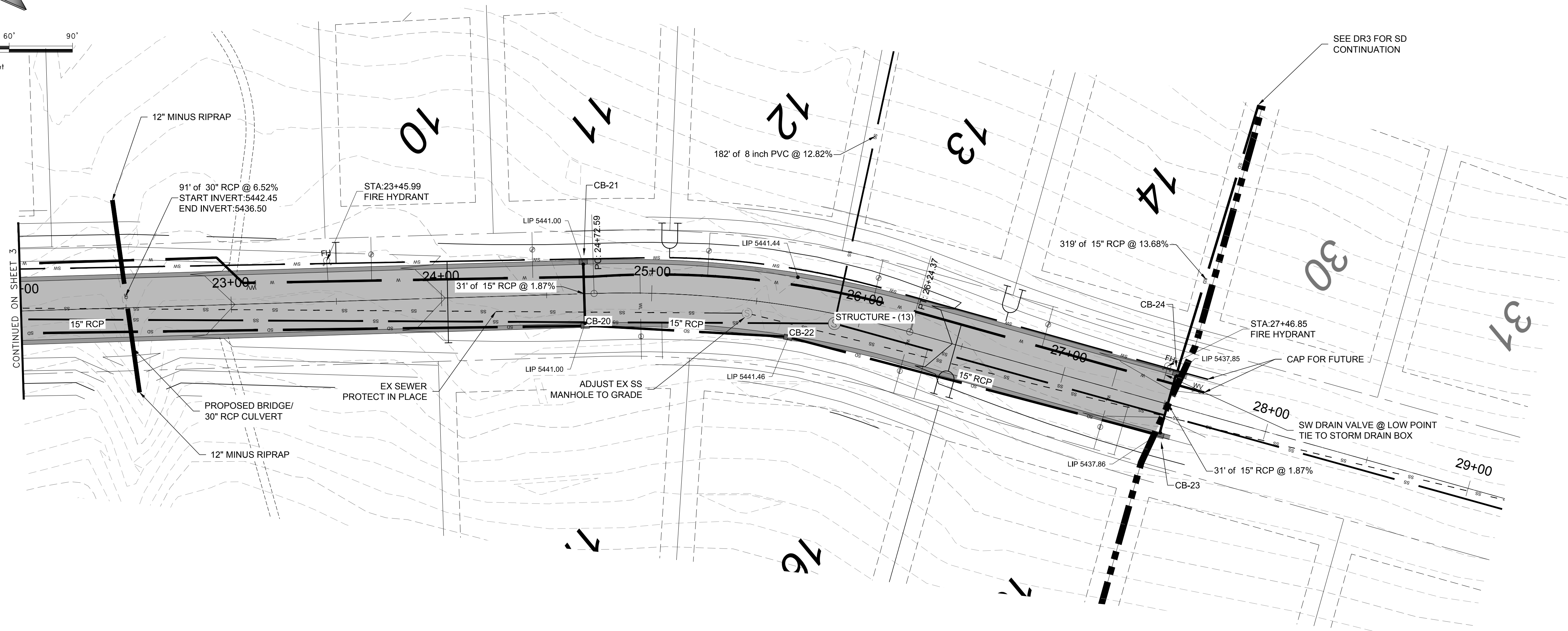
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 DATE: 02-16-17
 DESIGNER: KAN
 DRAWN: KAN
 CHECKED: RC
 DWG: RA101 - LEWIS HOMES THE BRIDGES DESIGN THE BRIDGES DESIGN PH 1.DWG



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0' 15' 30' 60' 90'
Scale in Feet
1" = 30'



SCALE: 1" = 30'

REVISIONS	DATE	DESCRIPTION

DATE: 3-29-17
DESIGN: KAN
DRAWN: KAN
CHECKED: RC

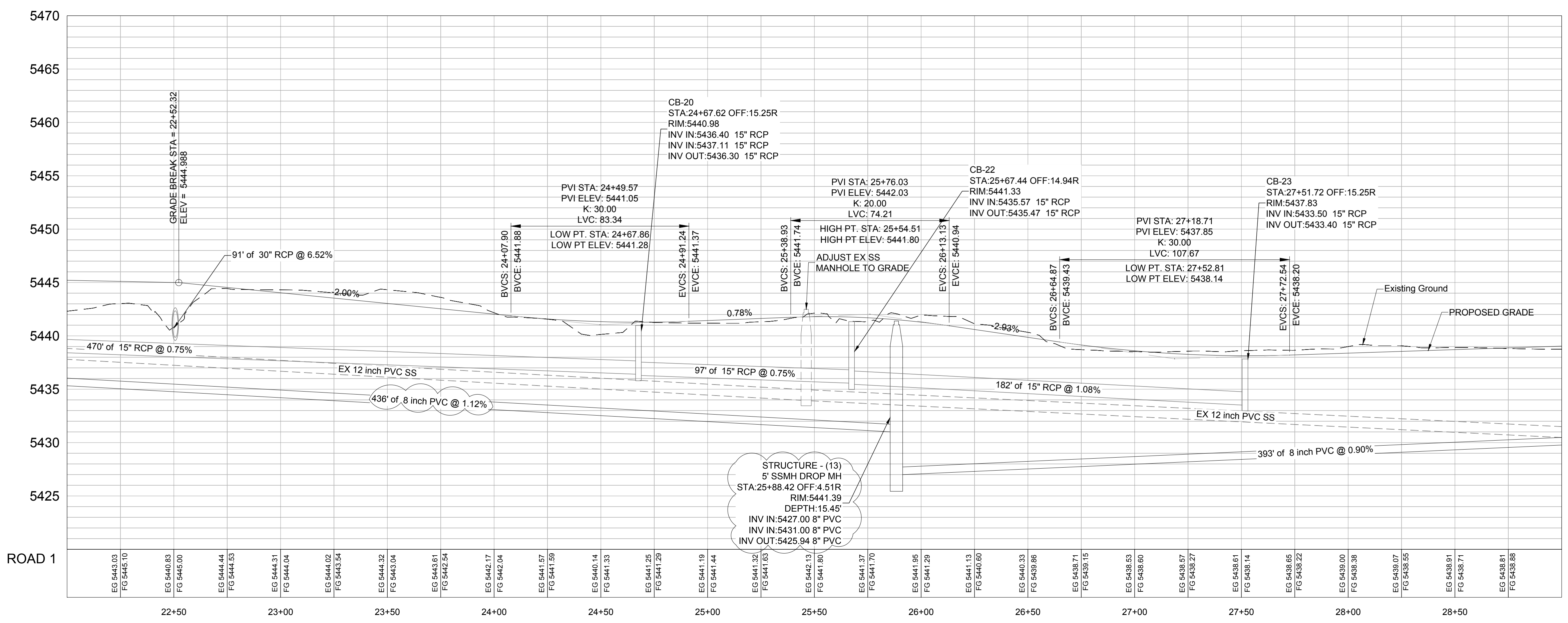


PLAN AND PROFILE
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

GARDNER ENGINEERING
CIVIL - LAND PLANNING
MUNICIPAL - LAND SURVEYING

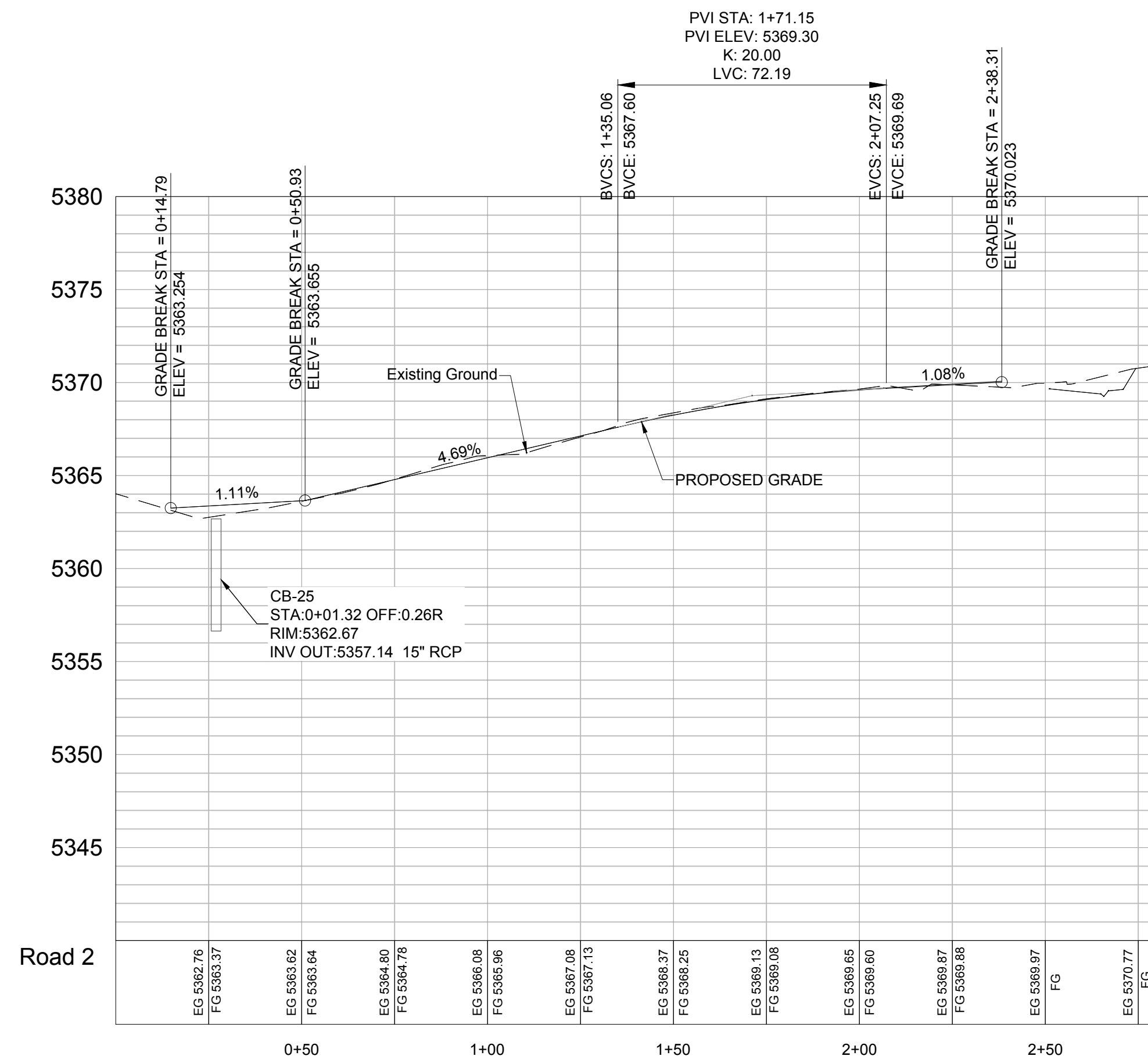
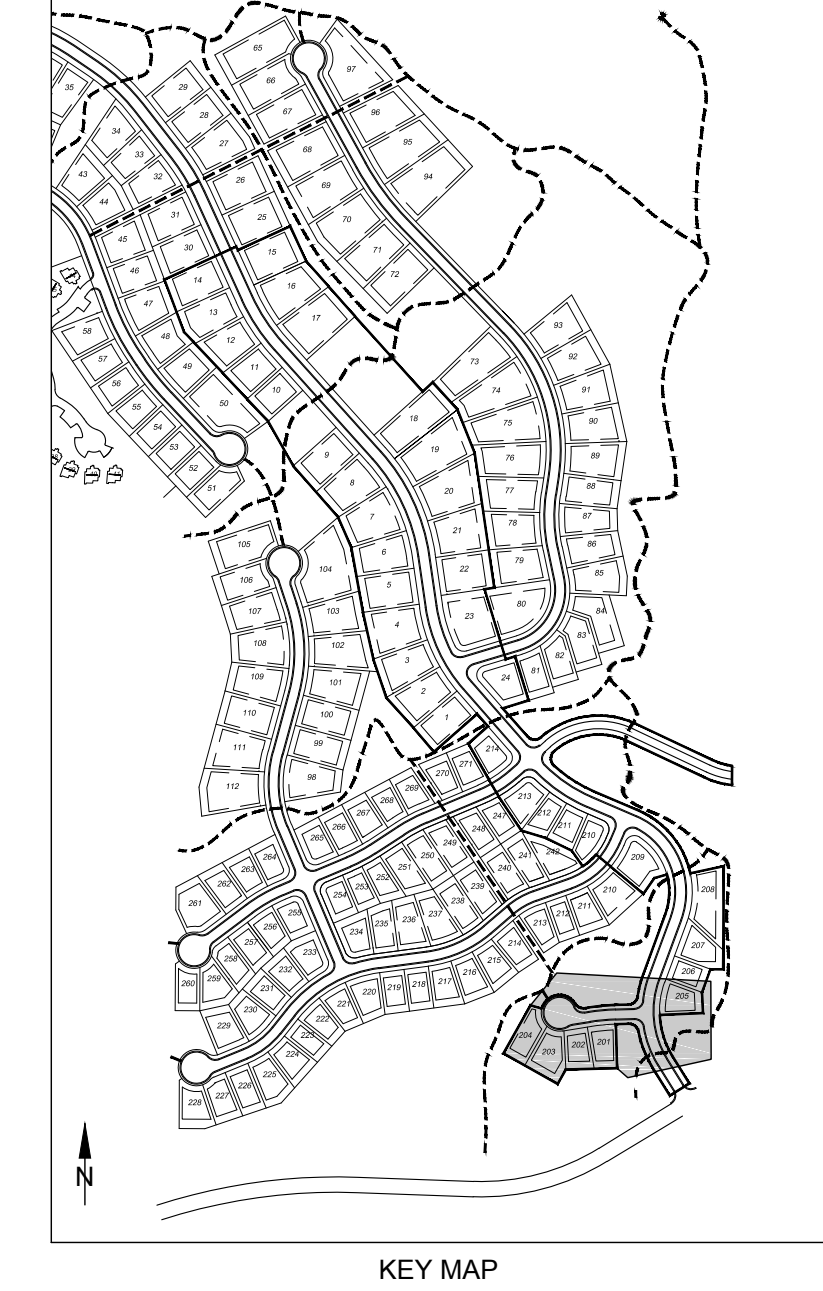
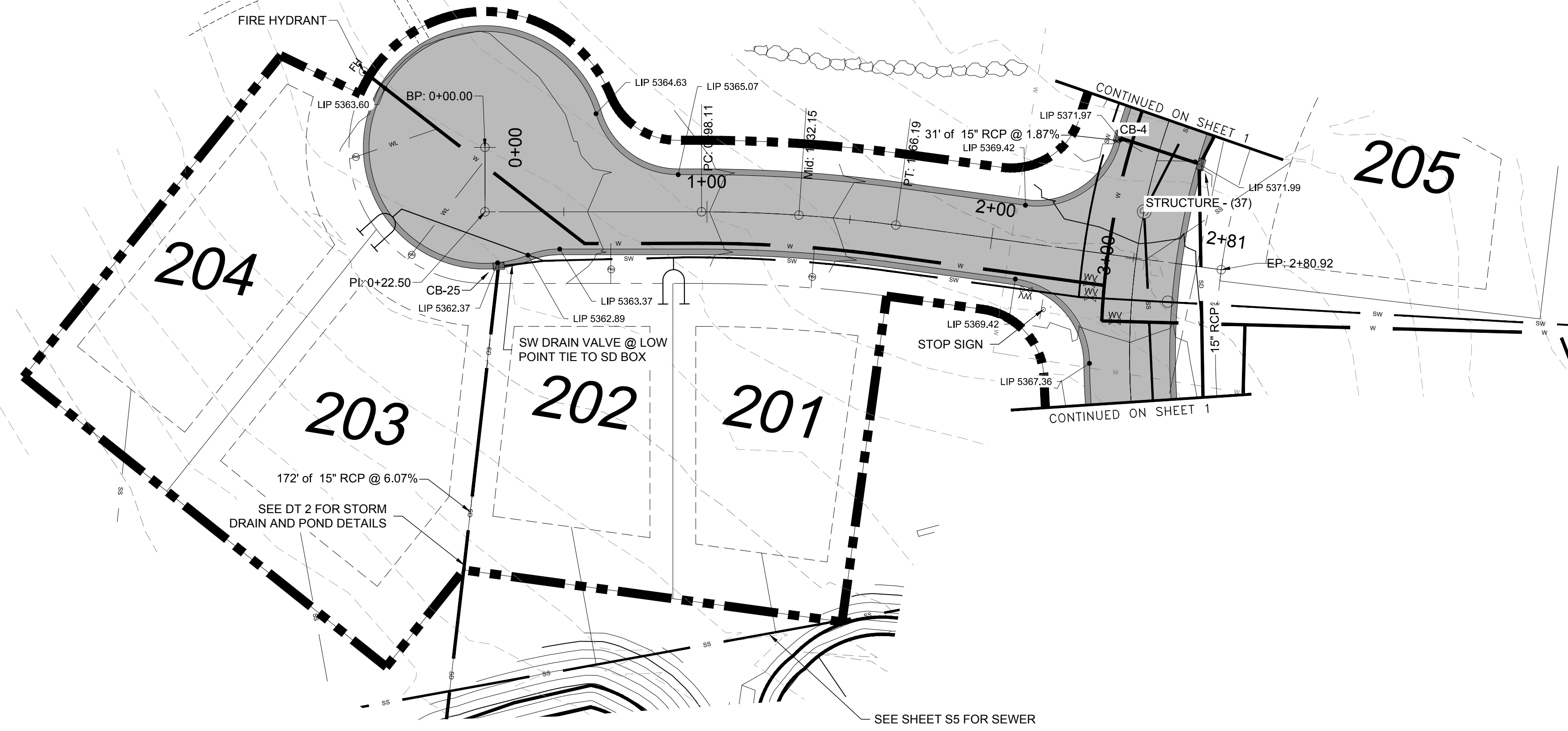
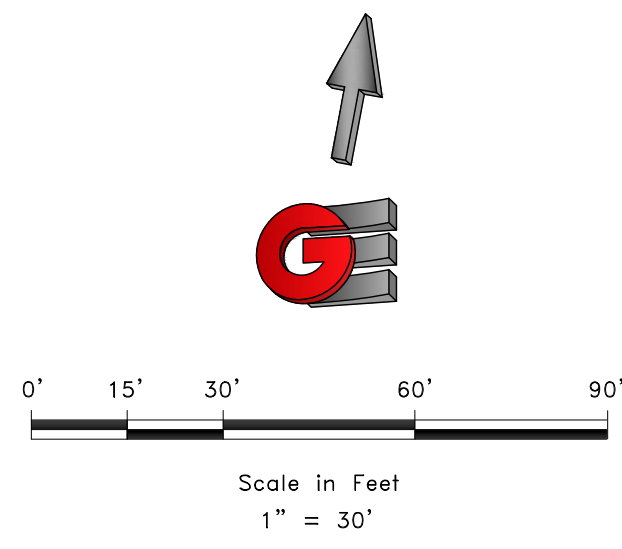
5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801.476.0202 FAX: 801.476.0066

PP4
25



DEVELOPER:
LEWIS HOMES
Eric Householder
WOLF CREEK
801-388-0040

R:\0311 - Eden Homes\The Bridges\Bridges\DWG\PP4.dwg, 03/29/17, 10:58:59 AM, ARCTIC (User ID: 100, 38.00 Inches)



REVISIONS	DESCRIPTION
DATE	

SCALE: 1" = 30'
 DATE: 02-16-17
 DESIGN: KAN
 DRAWN: KAN
 CHECKED: RC
 DWG. NO.: 15101 - LEWIS HOMES, THE BRIDGES, EDEN, UT

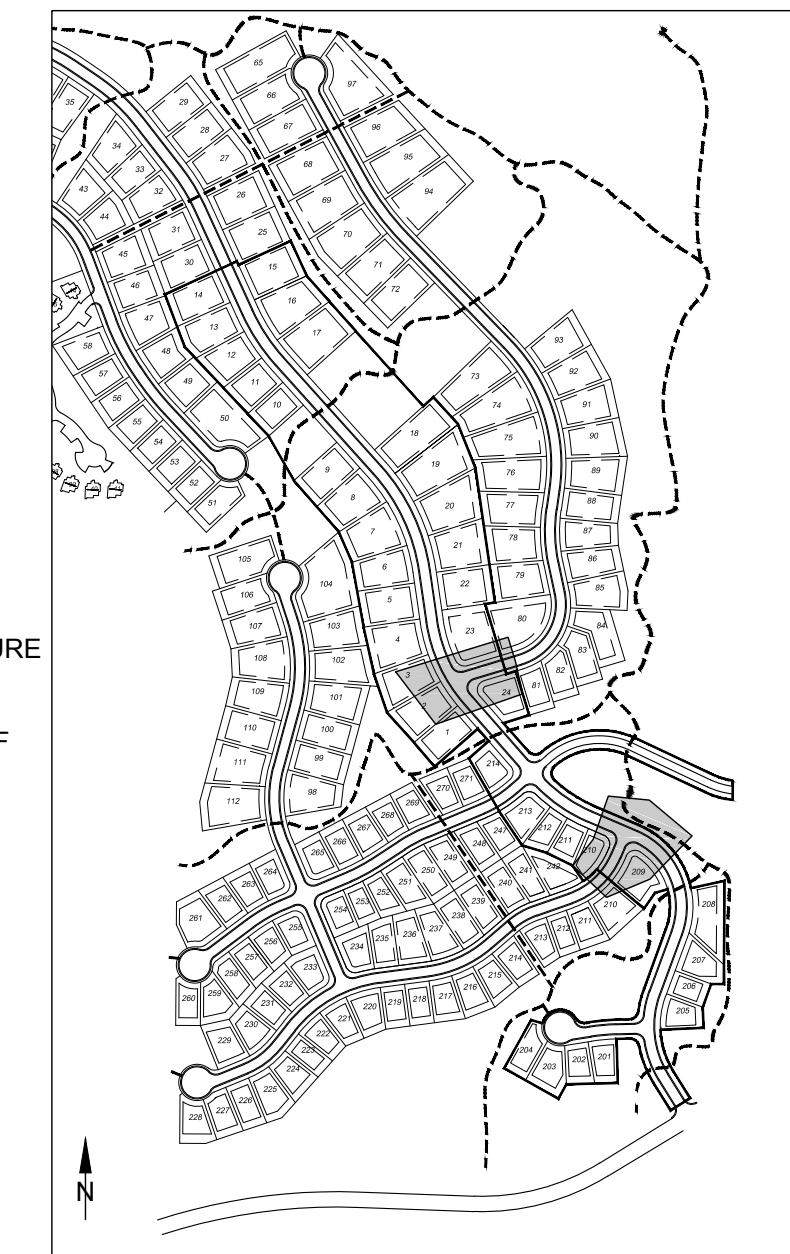
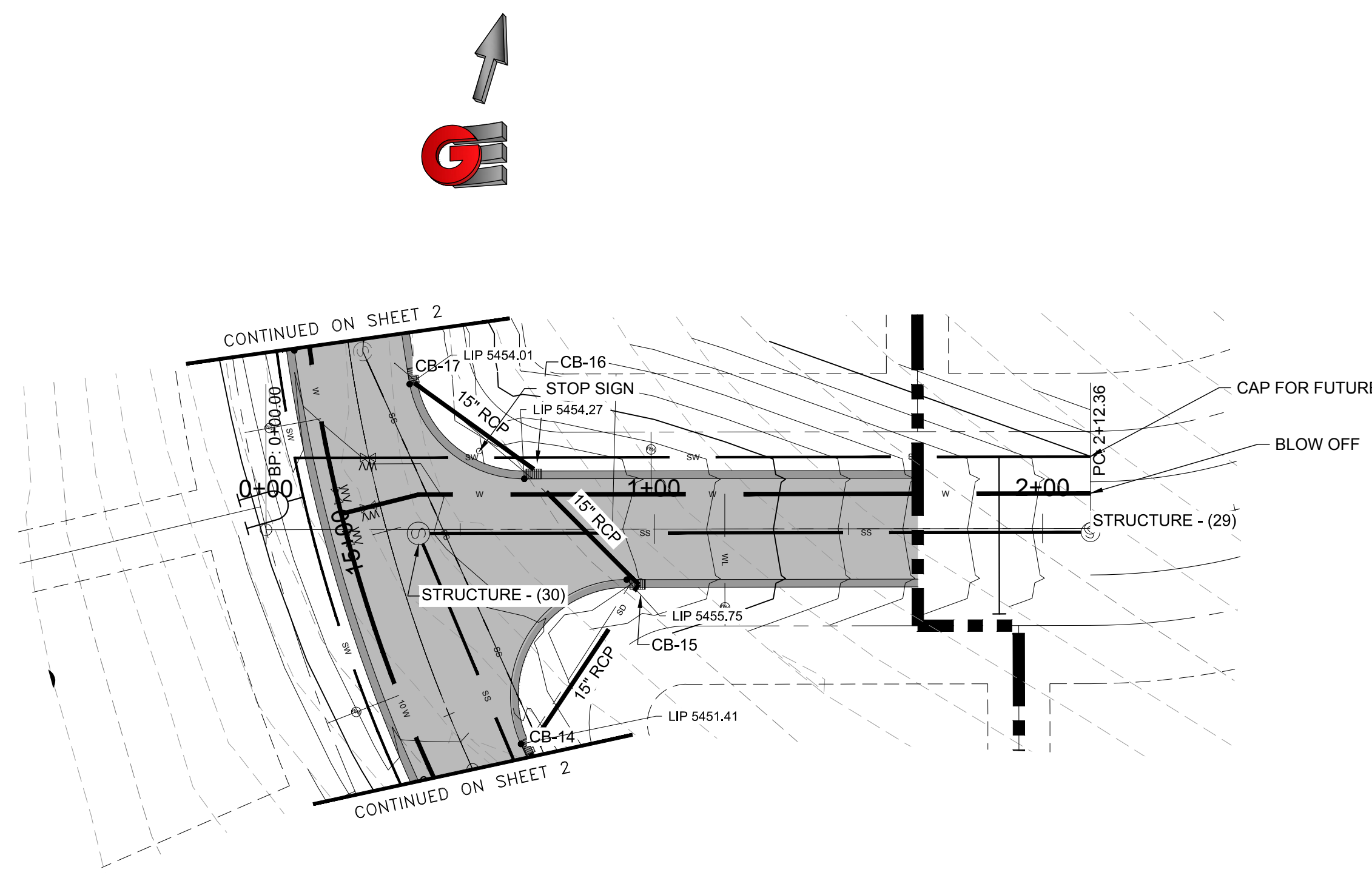
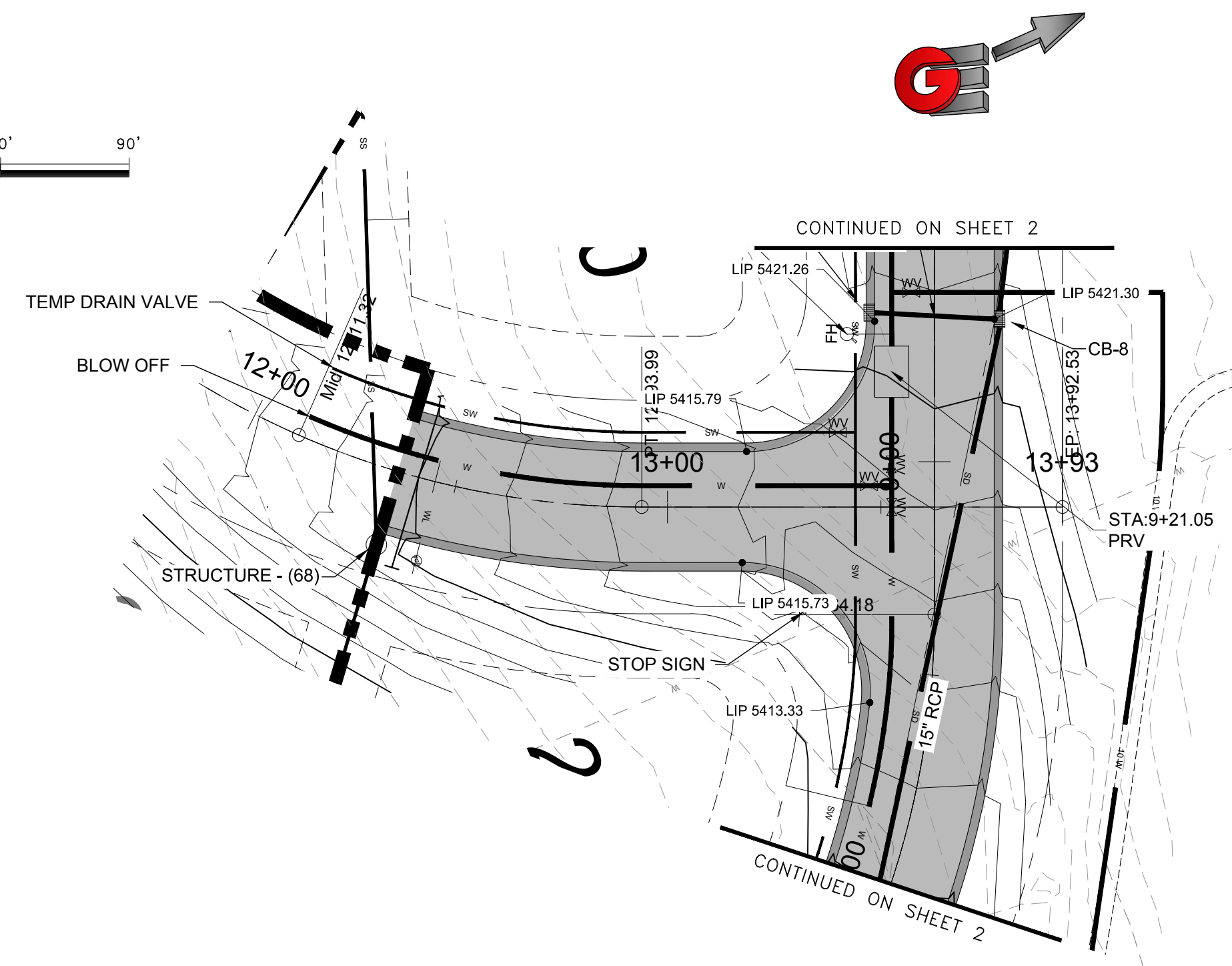
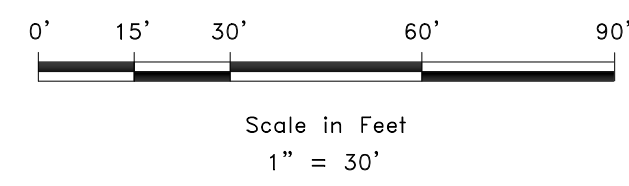
REGISTERED PROFESSIONAL ENGINEER
 No. 8010280
 RYAN A. CHRISTENSEN
 STATE OF UTAH

PLAN AND PROFILE
 THE BRIDGES
 PHASE 1
 EDEN, WEBER COUNTY, UTAH

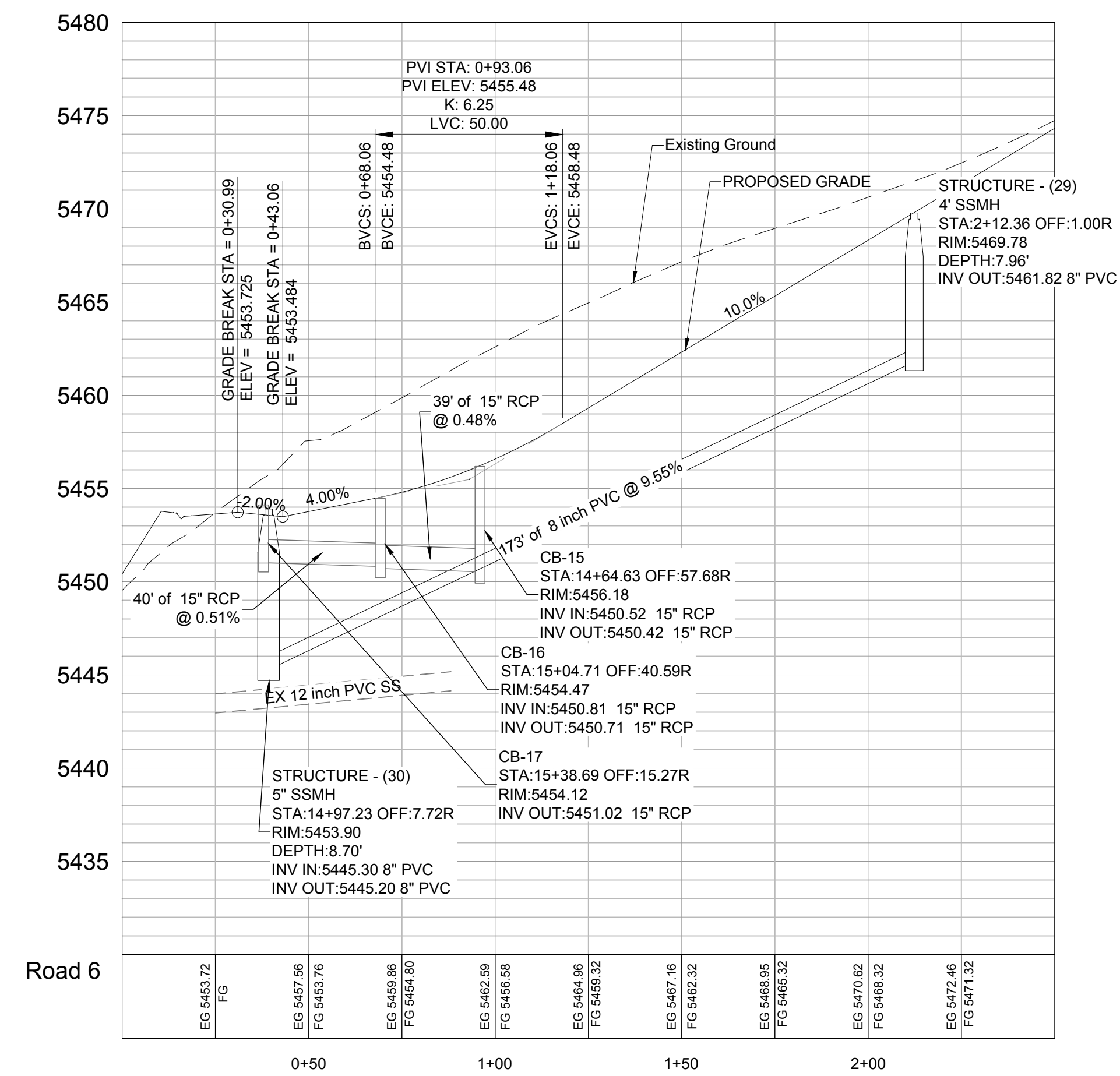
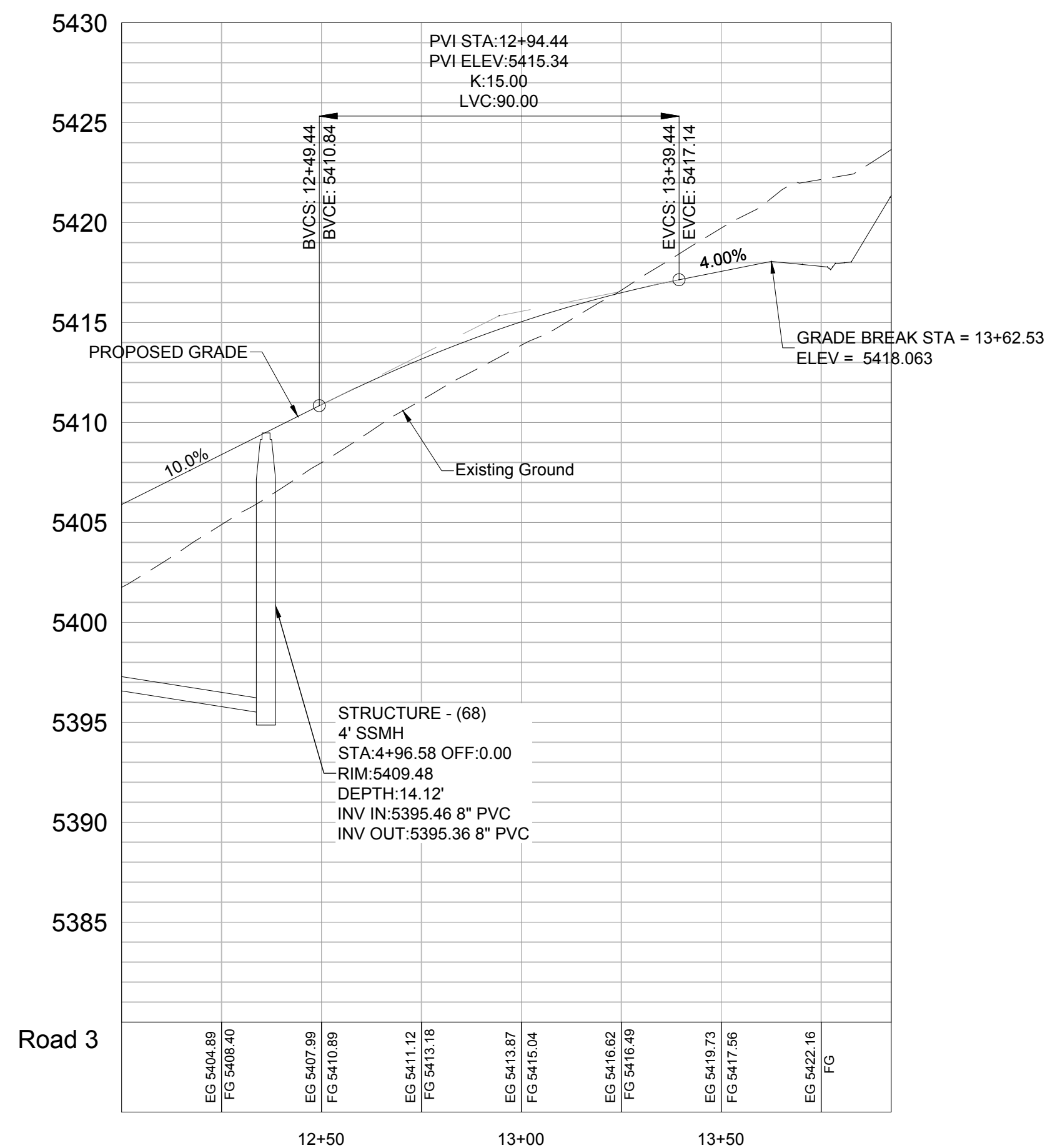
GARDNER ENGINEERING
 CIVIL - LAND PLANNING
 MUNICIPAL - LAND SURVEYING
 5150 SOUTH 375 EAST OGDEN, UT
 OFFICE: 801.476.0202 FAX: 801.476.0066

DEVELOPER:
 LEWIS HOMES
 Eric Householder
 WOLF CREEK
 801-388-0040

PP5
 25



KEY MAP



REVISIONS	DATE	DESCRIPTION

SCALE: 1" = 30'
 DATE: 02-16-17
 DESIGN: KAN
 DRAWN: KAN
 CHECKED: RC
 DWG.: R.V. 201 - LEWIS HOMES, THE BRIDGES, EDEN, THE BRIDGES, DESIGN PH 1.DWG



PLAN AND PROFILE
 THE BRIDGES
 PHASE 1
 EDEN, WEBER COUNTY, UTAH

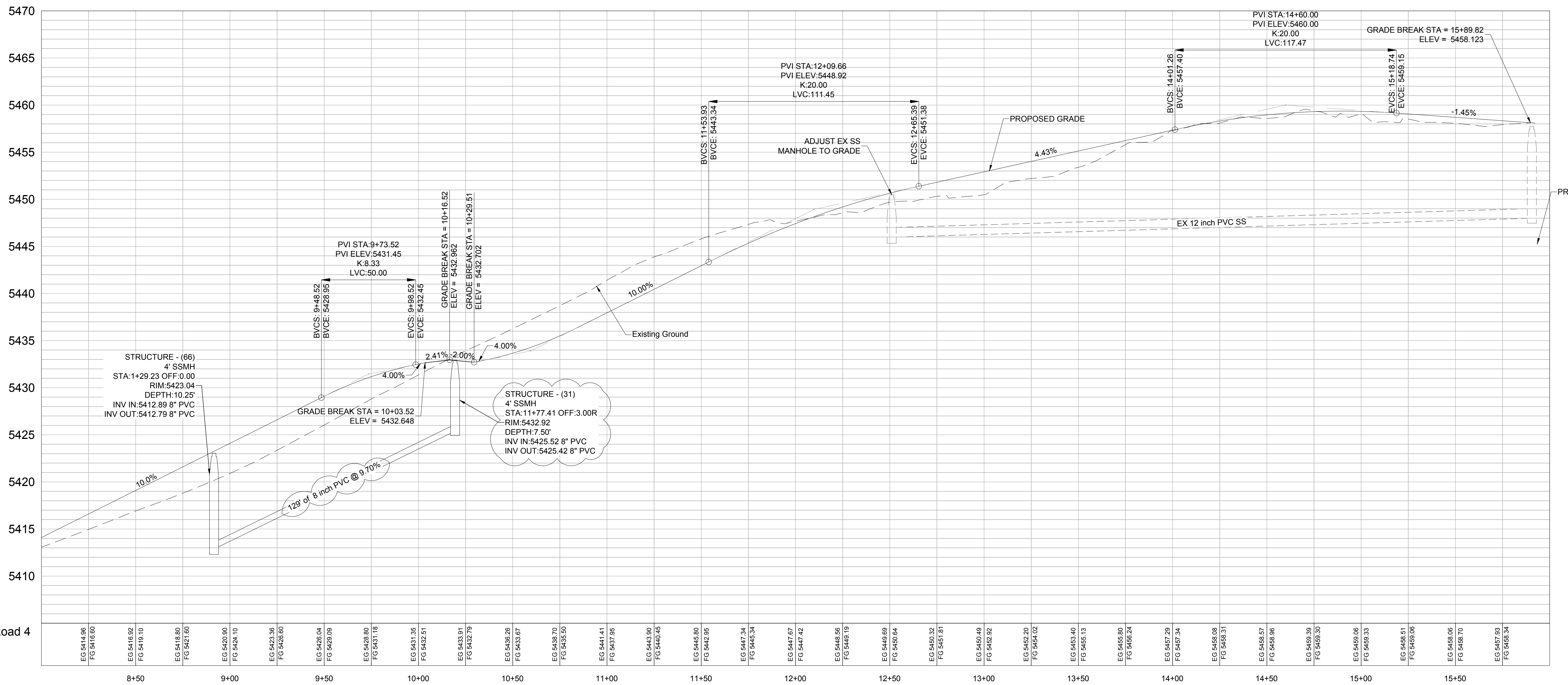
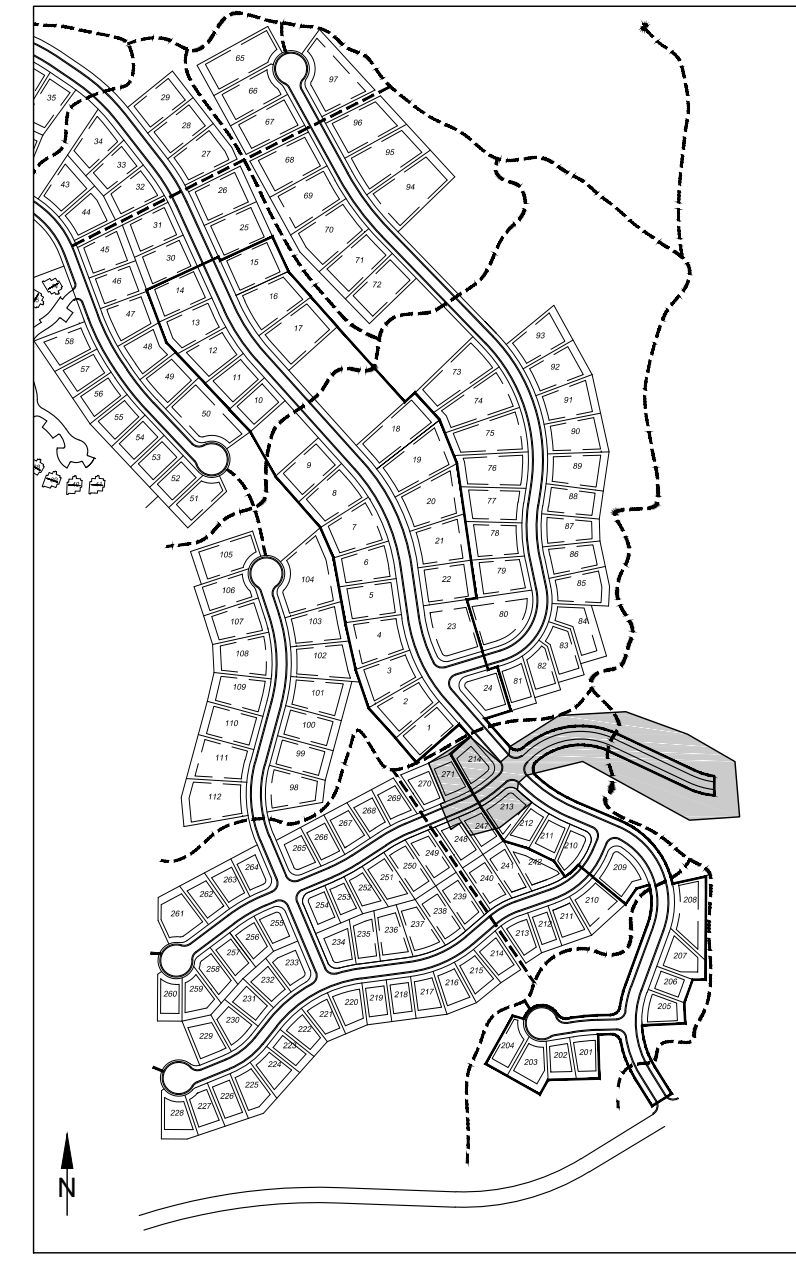
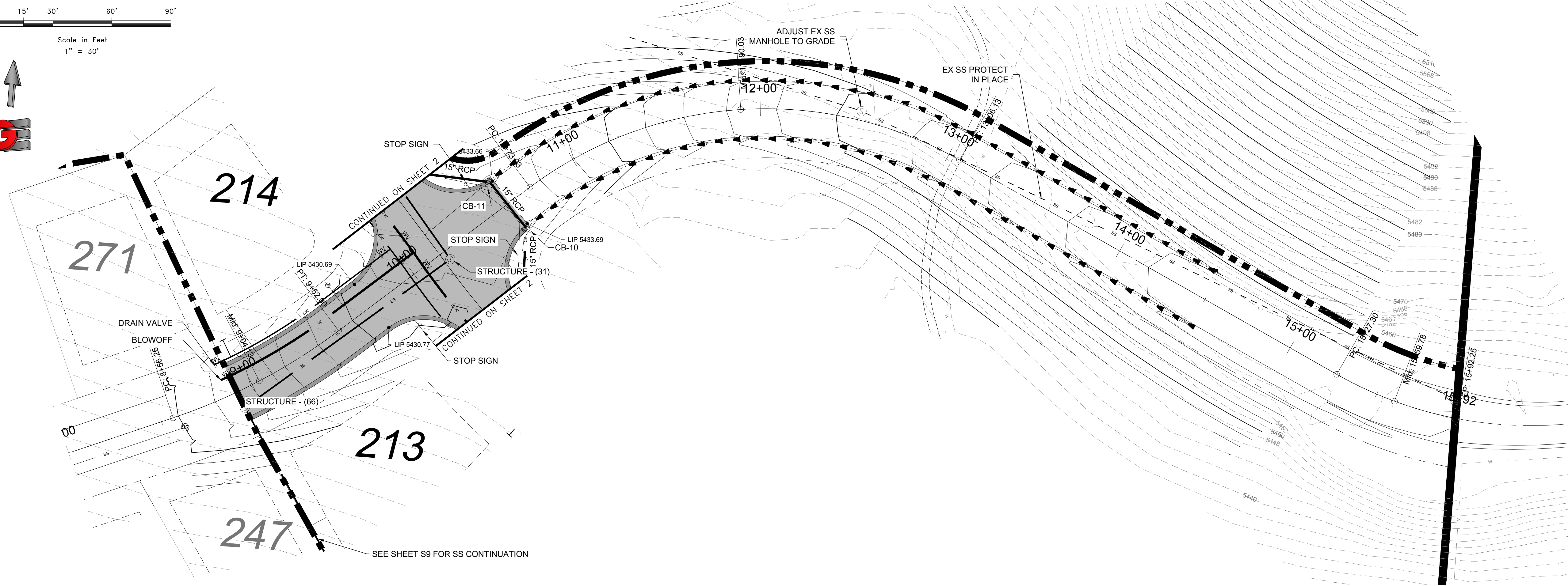
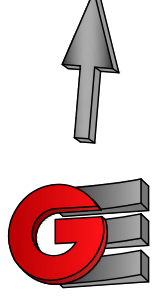
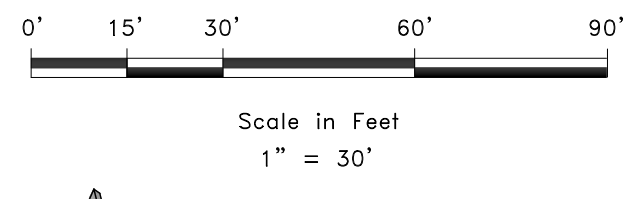
GARDNER ENGINEERING
 CIVIL - LAND PLANNING
 MUNICIPAL - LAND SURVEYING
 5150 SOUTH 375 EAST OGDEN, UT
 OFFICE: 801-476-0202 FAX: 801-476-0066

PP6
 25

DEVELOPER:

LEWIS HOMES
 Eric Householder
 WOLF CREEK
 801-388-0040

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SCALE: 1" = 30'

DATE: 02-16-17

DESIGN: KAN

DRAWN: KAN

CHECKED: RC

REVISIONS

DATE	DESCRIPTION
3-29-17	REVISED SEWER DEPTH



PLAN AND PROFILE
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

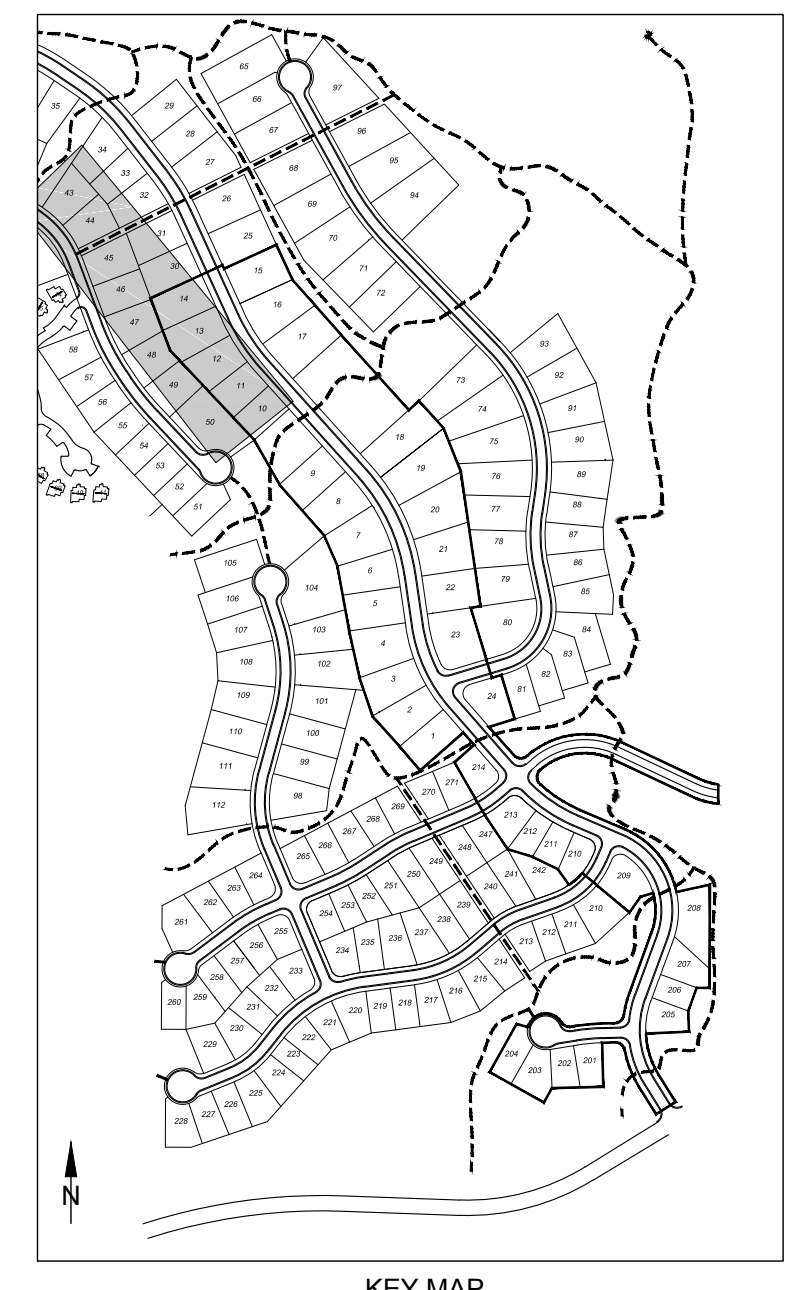
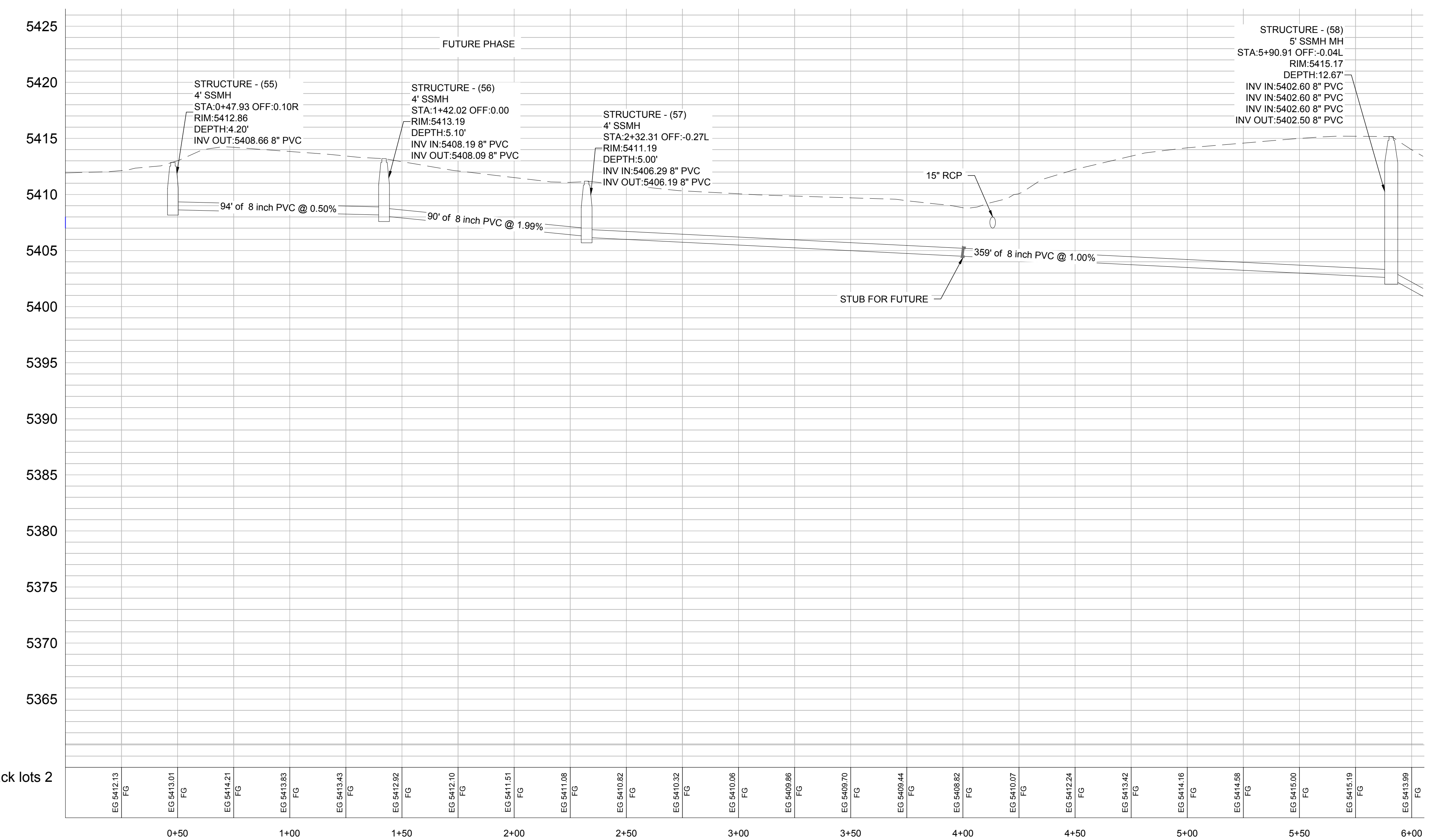
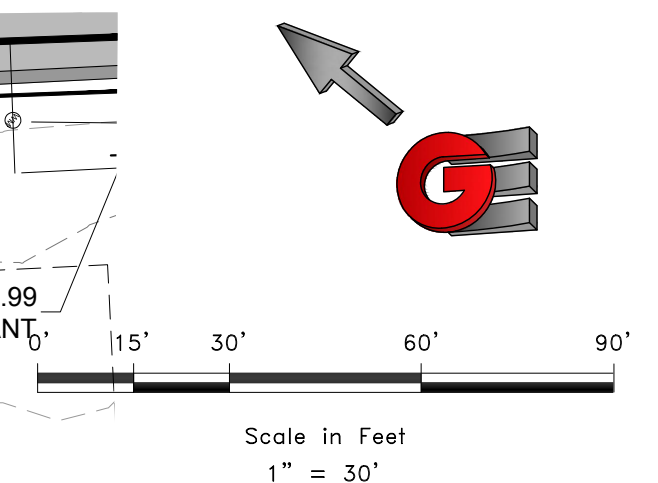
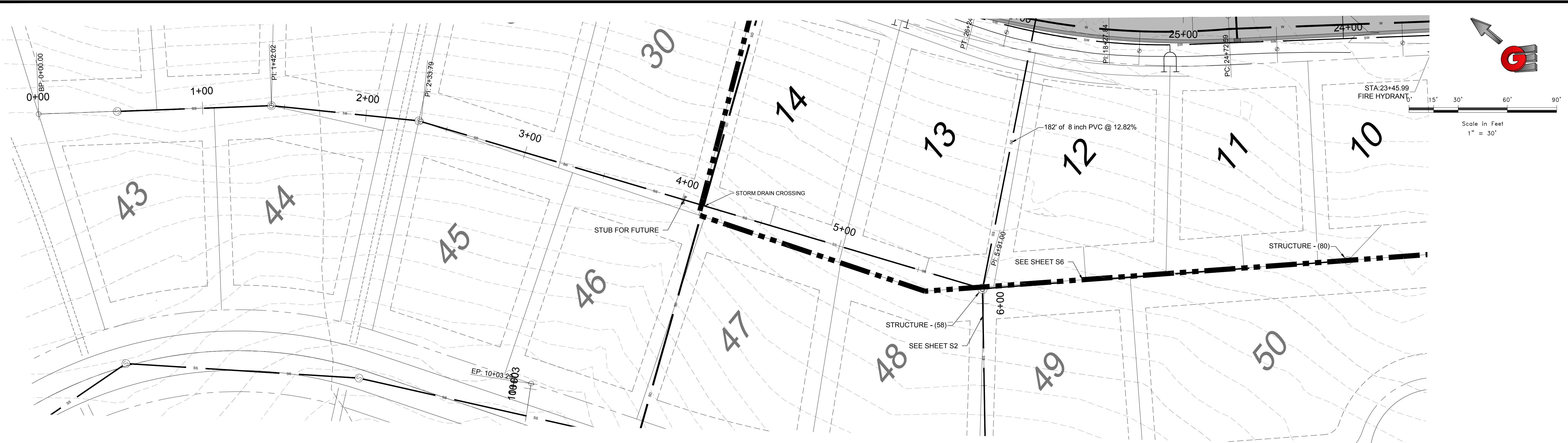
GARDNER ENGINEERING
CIVIL - LAND PLANNING
MUNICIPAL - LAND SURVEYING

5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801-476-0202 FAX: 801-476-0066

PP7
25

DEVELOPER:
LEWIS HOMES
Eric Householder

R:\0311 - Eden Homes\The Bridges\SS\DWG\The Bridges Design PP7.dwg, 03/29/17 2:57:56 PM, ANCEIT.dwg (D:\03 - 16\06\16\06)



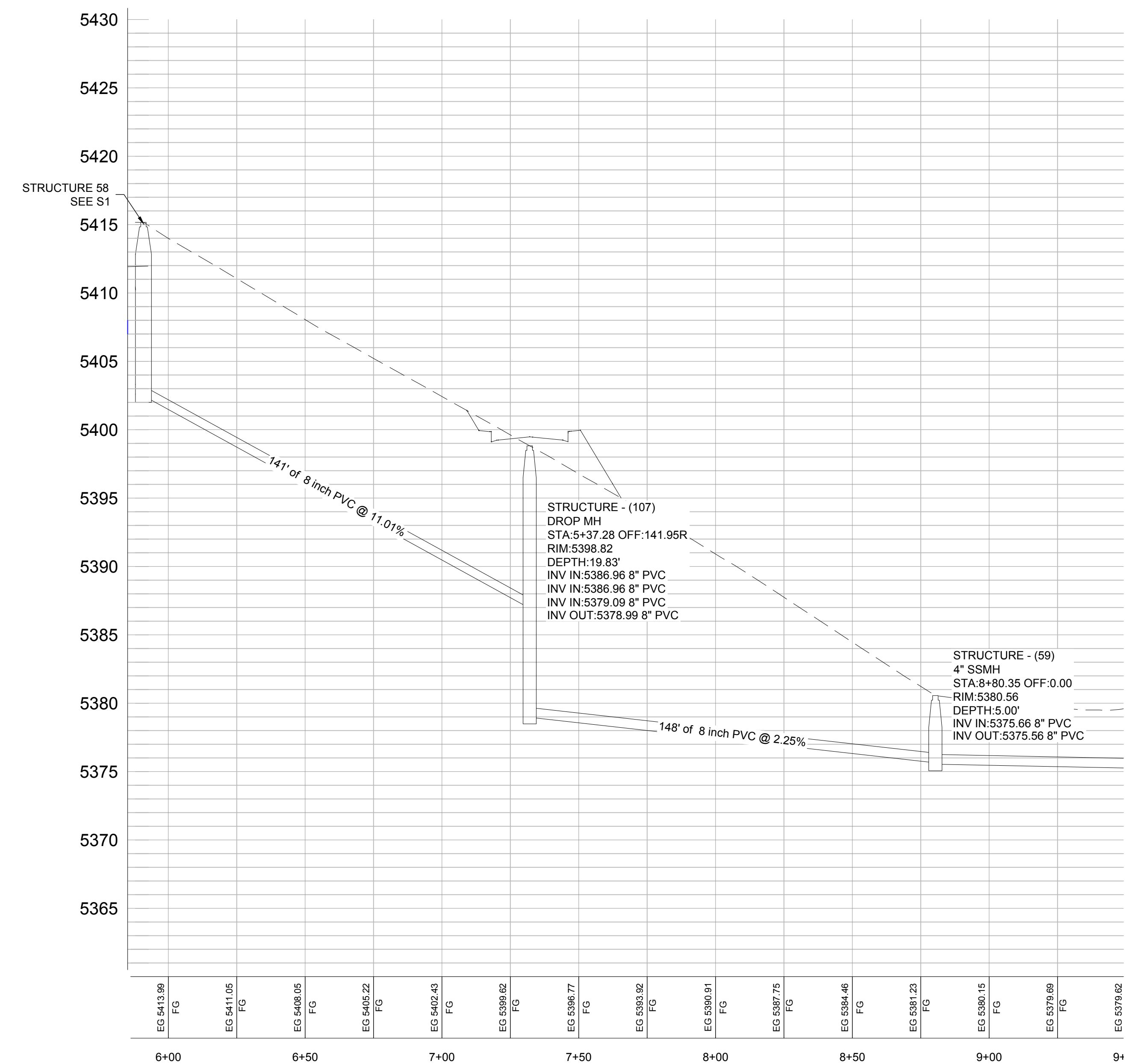
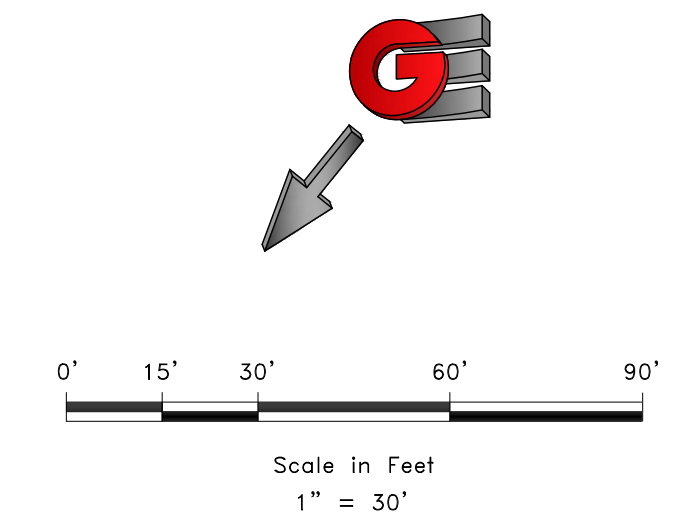
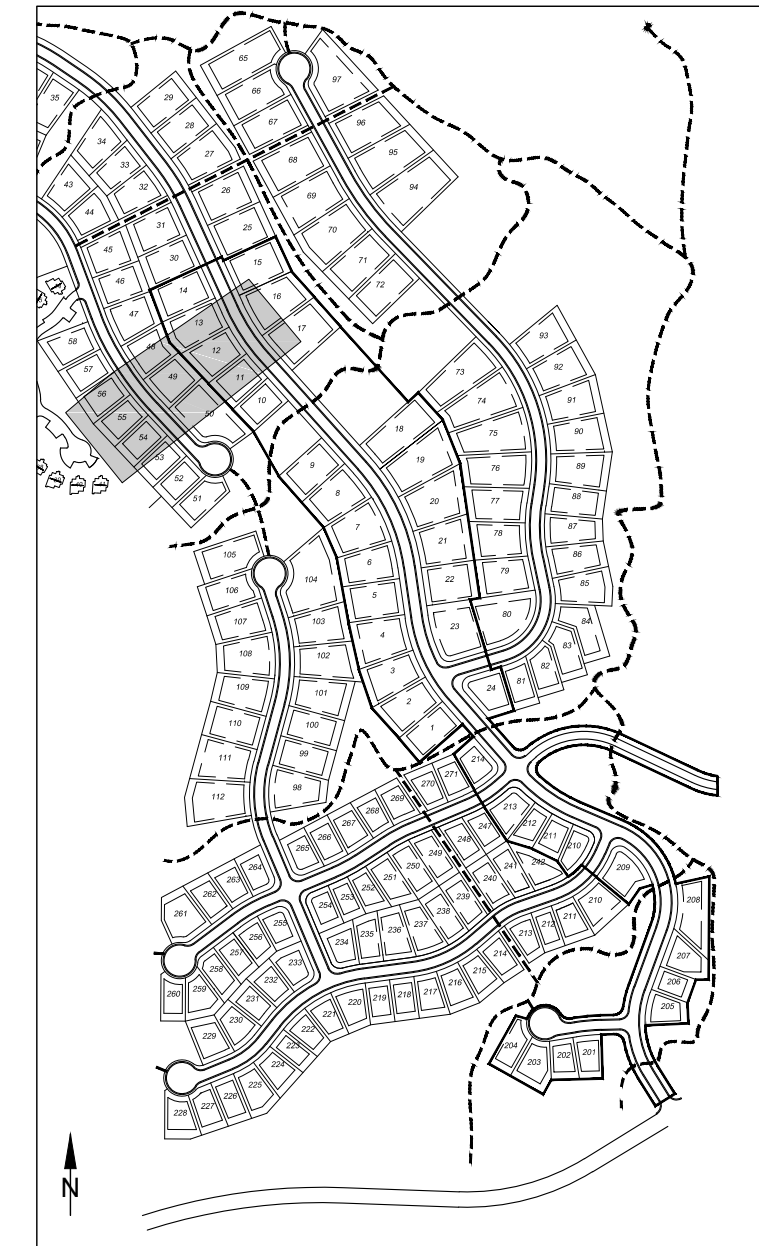
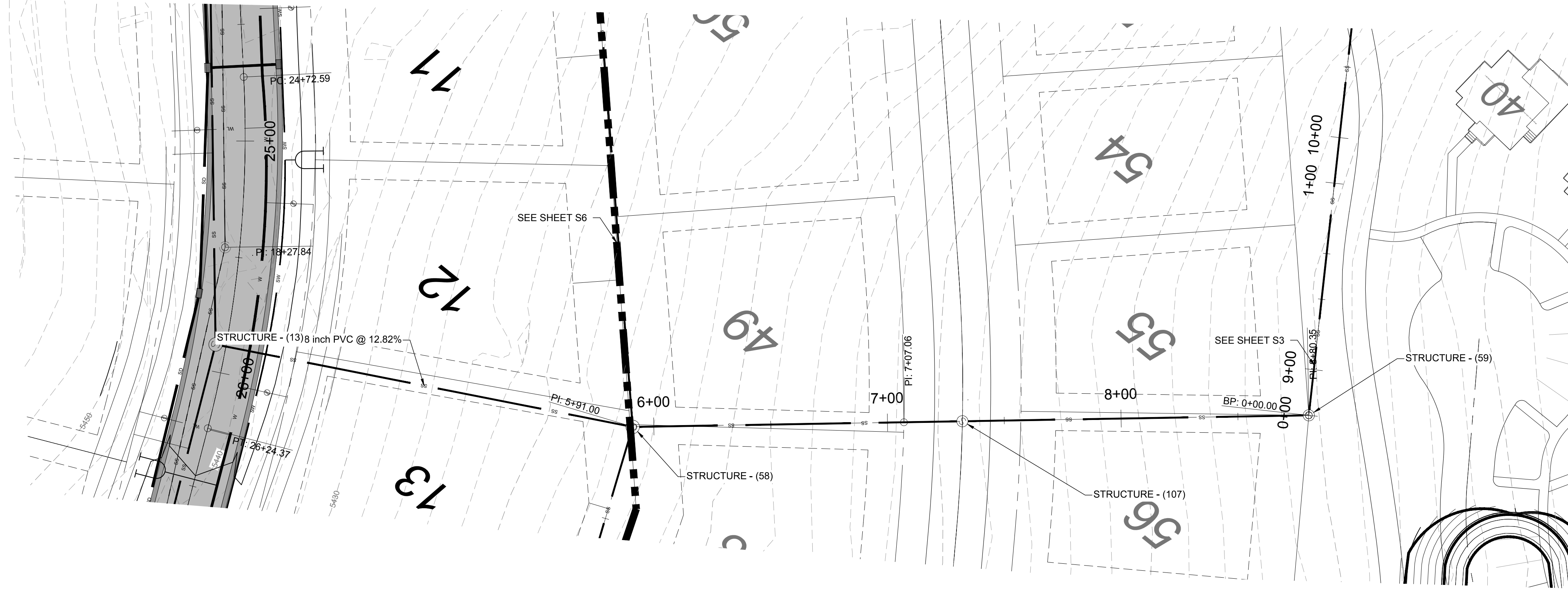
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DATE	02-16-17
DESIGN	KAN
DRAWN	KAN
CHECKED	PC



BACK LOT SEWER PROFILE
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

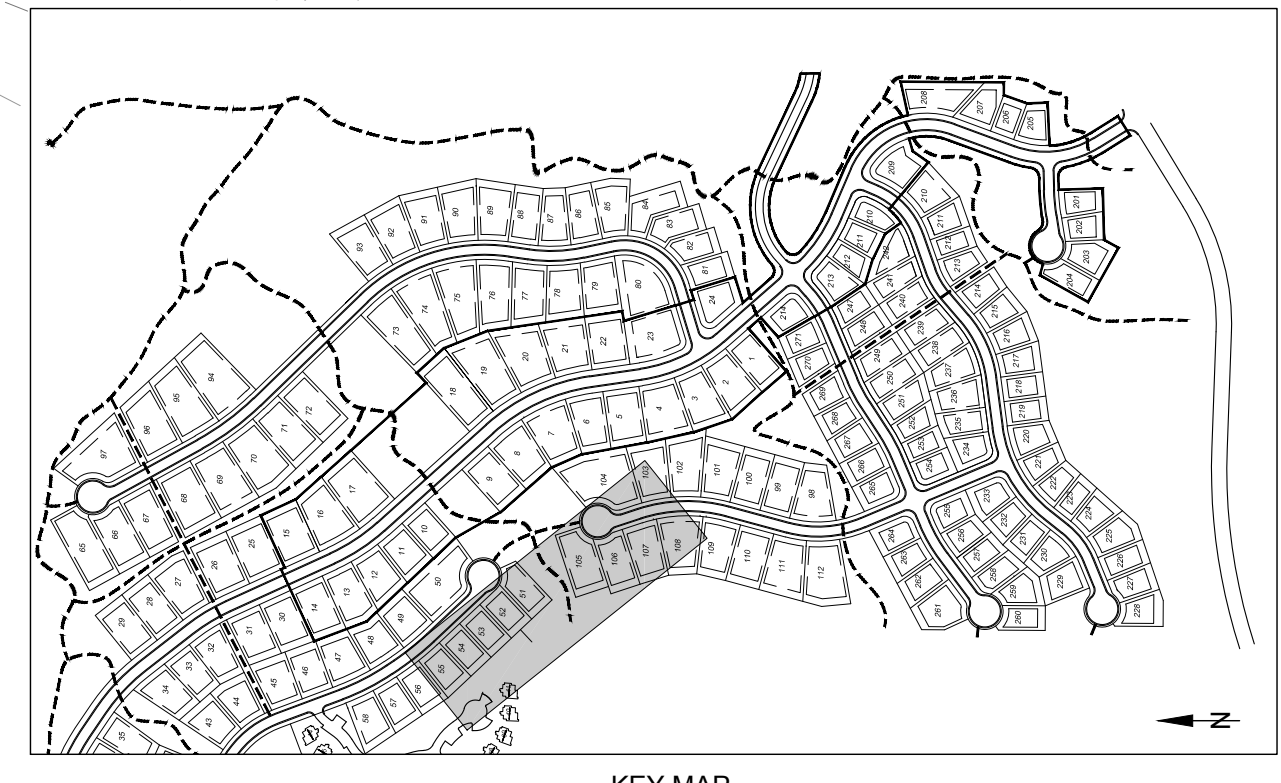
GARDNER ENGINEERING
CIVIL - LAND PLANNING
MUNICIPAL - LAND SURVEYING
5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801.476.0202 FAX: 801.476.0066

R:\311 - Eden - The Bridges\311\DWG\The Bridges Design\PS - 1.dwg, 02/16/17, 2:58 PM, ANCI\kan@weber.com, 38.00, 16.00



	BACK LOT SEWER PROFILE THE BRIDGES PHASE 1 EDEN, WEBER COUNTY, UTAH	SCALE: 1" = 30' DATE: 02-16-17 DESIGN: KAN DRAWN: KAN CHECKED: PC DWG#: 141301 - UTAH STANDARD BRIDGES DESIGN PER 1.006
	REGISTERED PROFESSIONAL ENGINEER No. 8010280 RYAN A. CHRISJENSEN STATE OF UTAH	REVISIONS DATE DESCRIPTION

R:\311 - Town of Eden\The Bridges\BRIDGES\DWG\The Bridges Design\B1.dwg - 02/28/17 10:53:24 AM - ANCF\kan\kan.dwg - 3/6/16 kachan



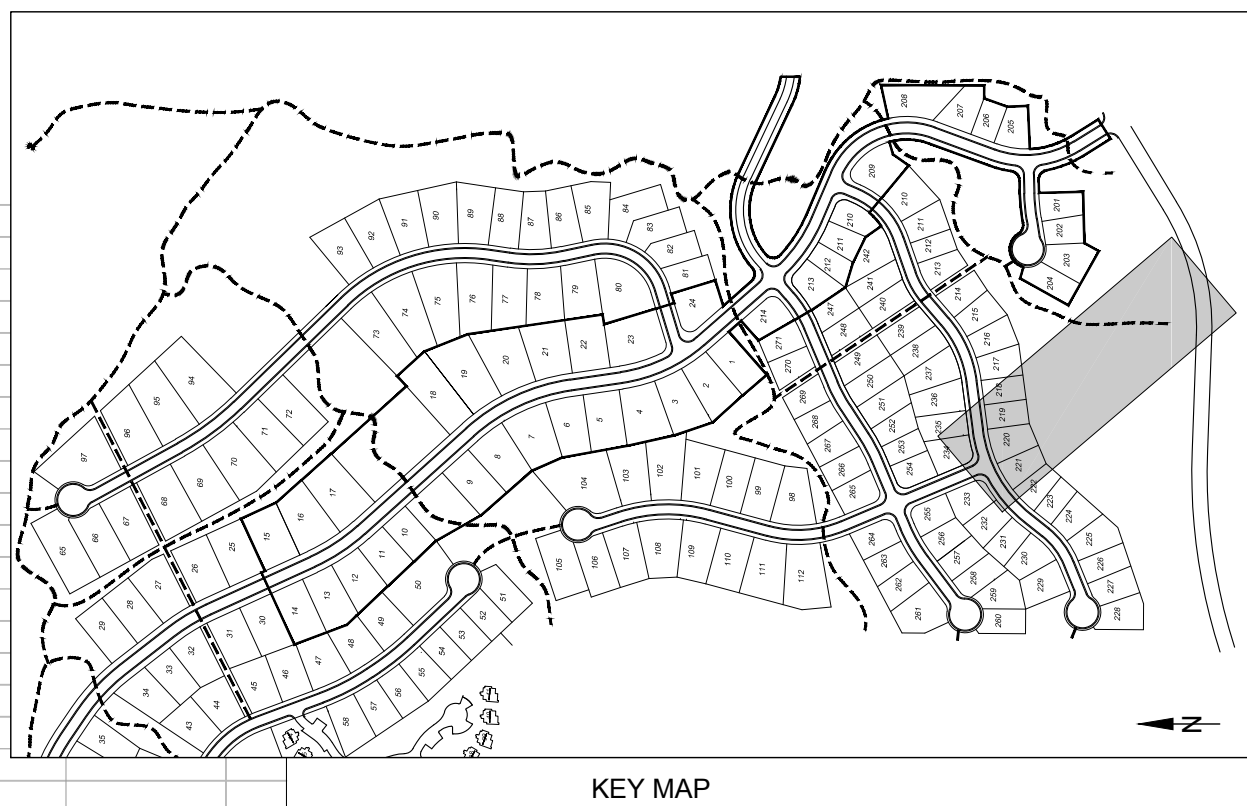
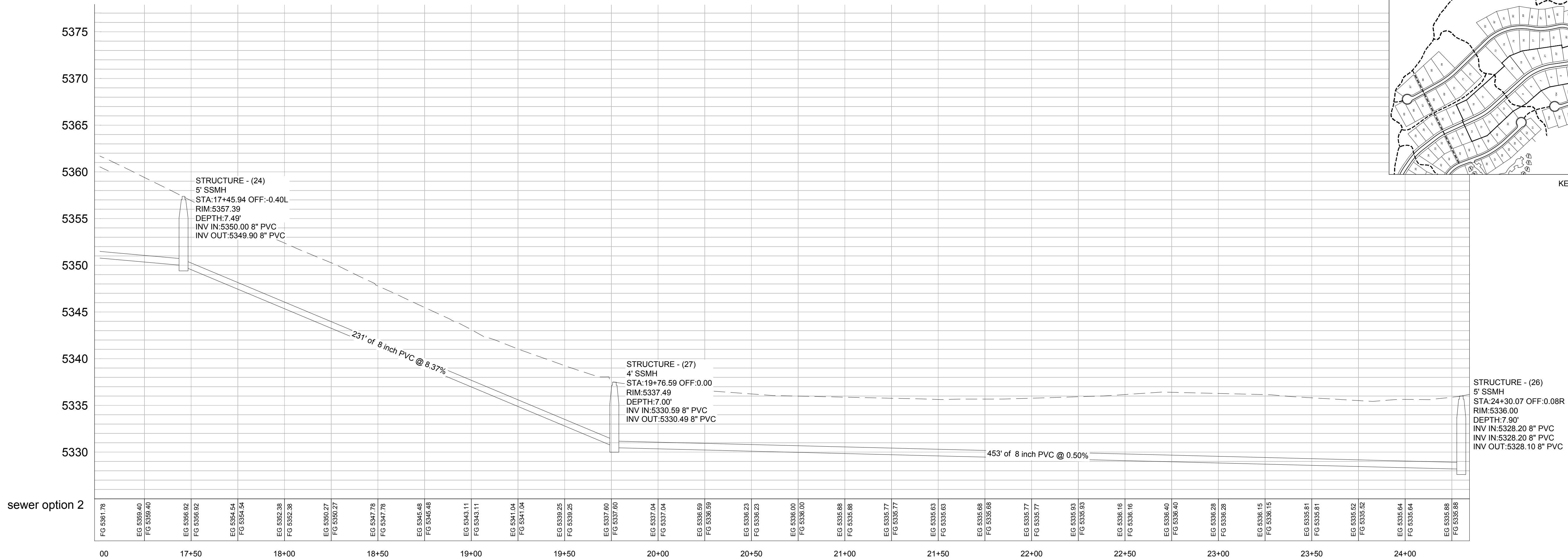
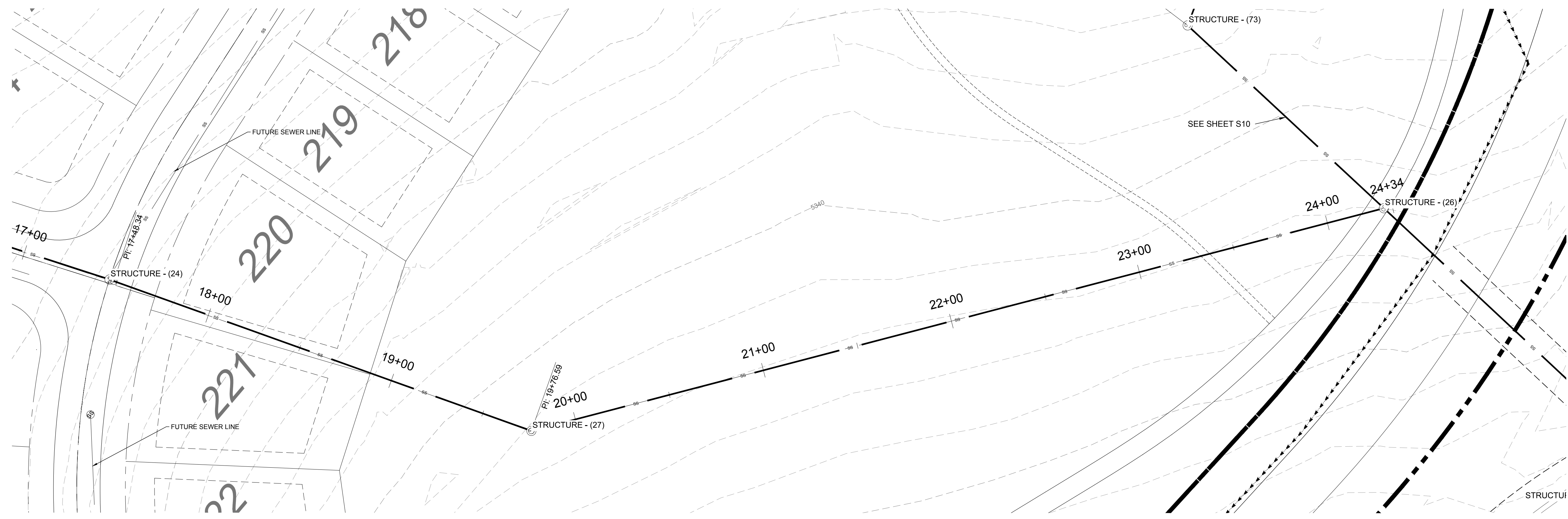
REVISIONS	DATE	DESCRIPTION

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BACKLOT SEWER PROFILE
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

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SCALE: 1" = 30'

DATE: 02-16-17

DESIGN: KAN

DRAWN: KAN

CHECKED: PC

REVISIONS	DESCRIPTION
DATE	

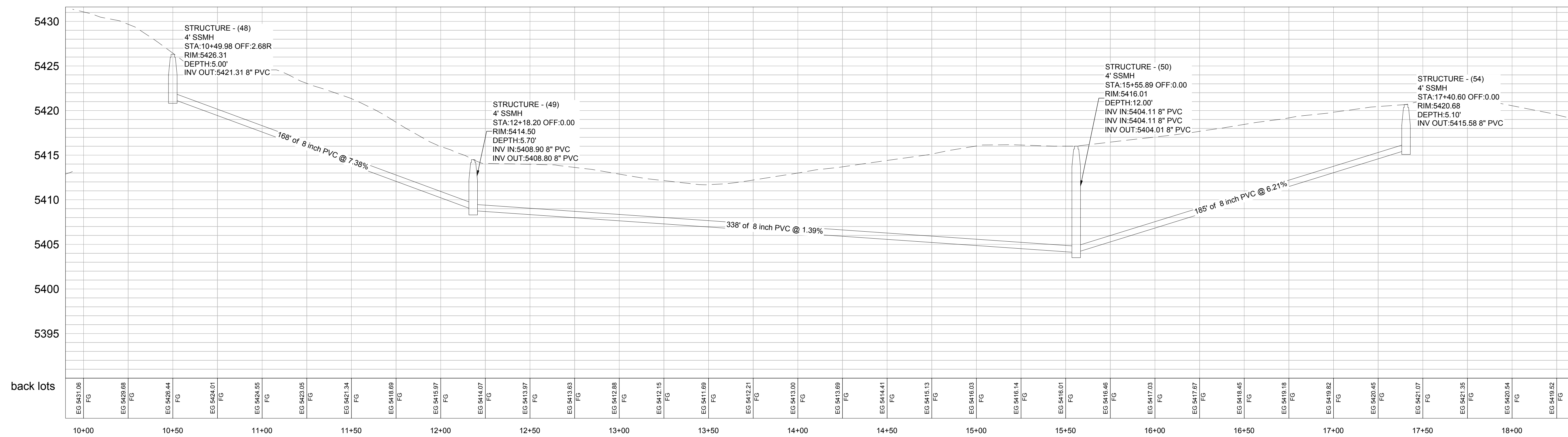
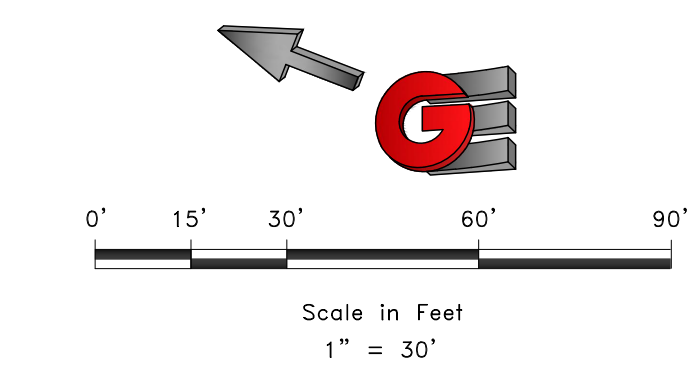
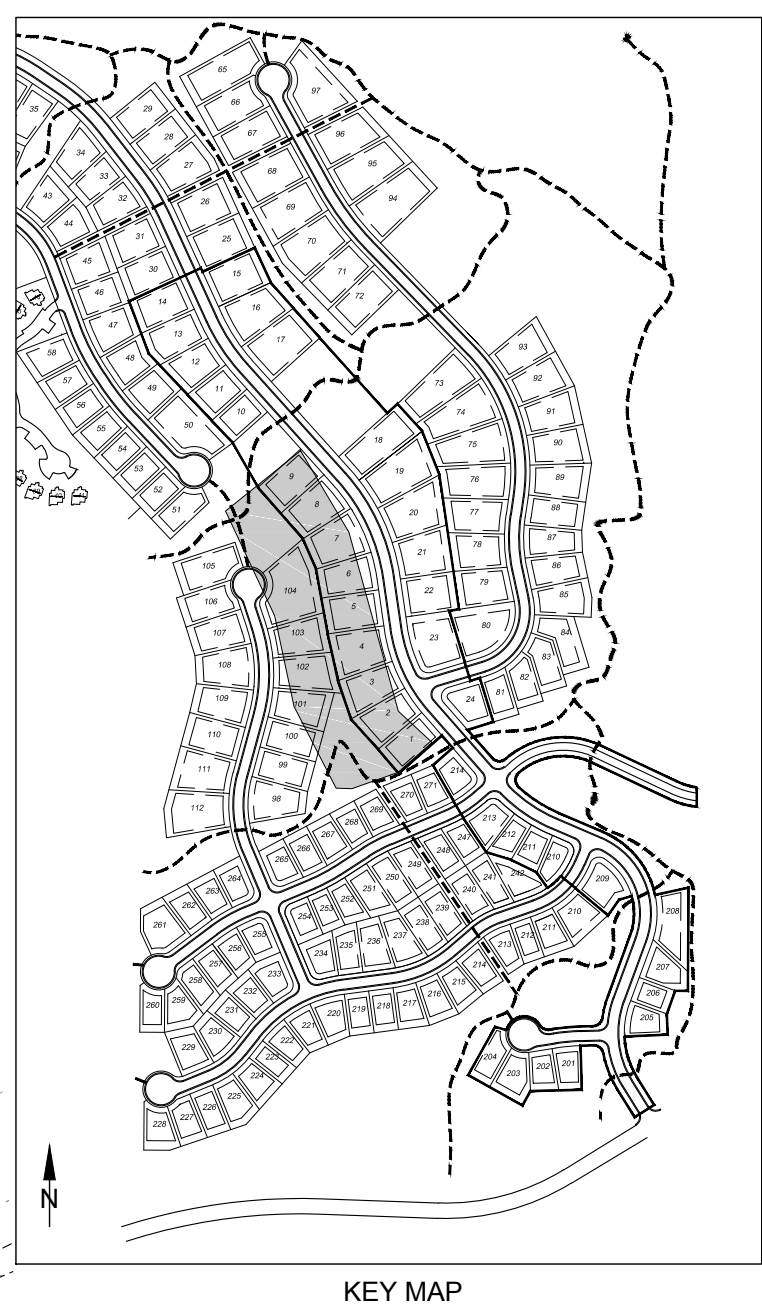
DWG.: 14.1.201 - LEWIS JONES, THE BRIDGES, DESIGN, INC., THE BRIDGES, DESIGN, INC., UMG



BACKLOT SEWER PROFILE
THE BRIDGES
PHASE 1
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REVISIONS	DATE	DESCRIPTION

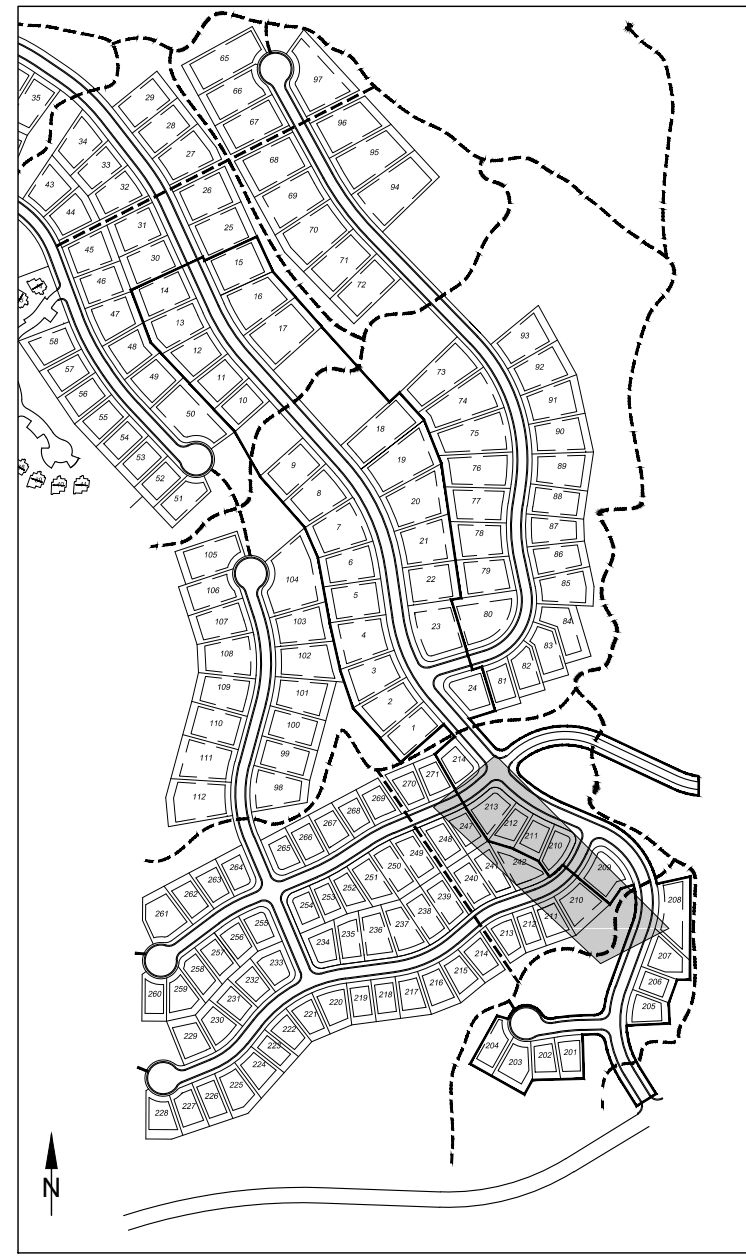


BACKLOT SEWER PROFILE
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH

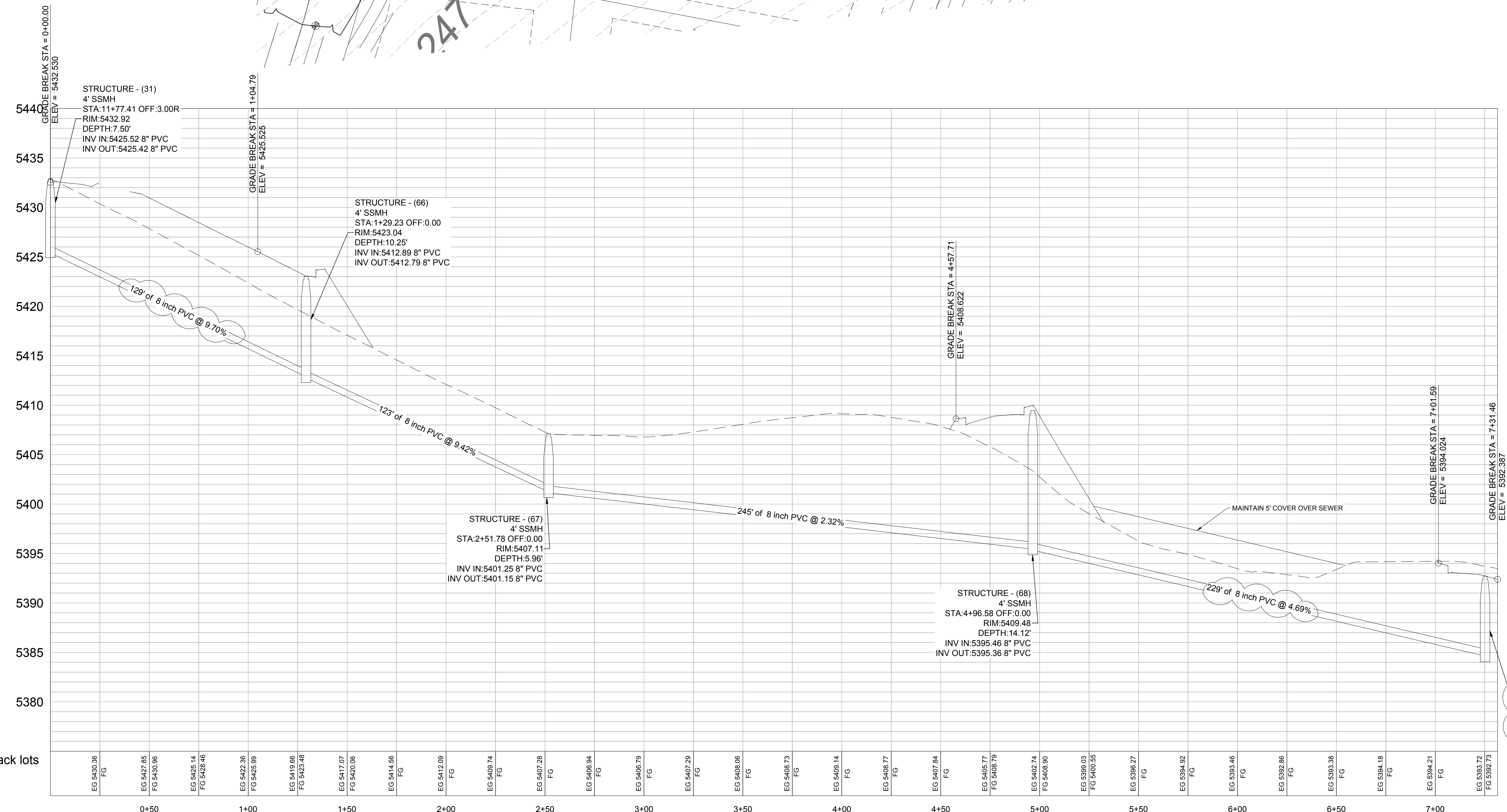
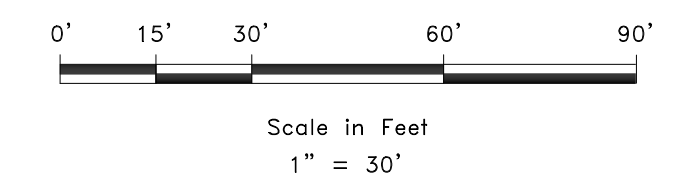
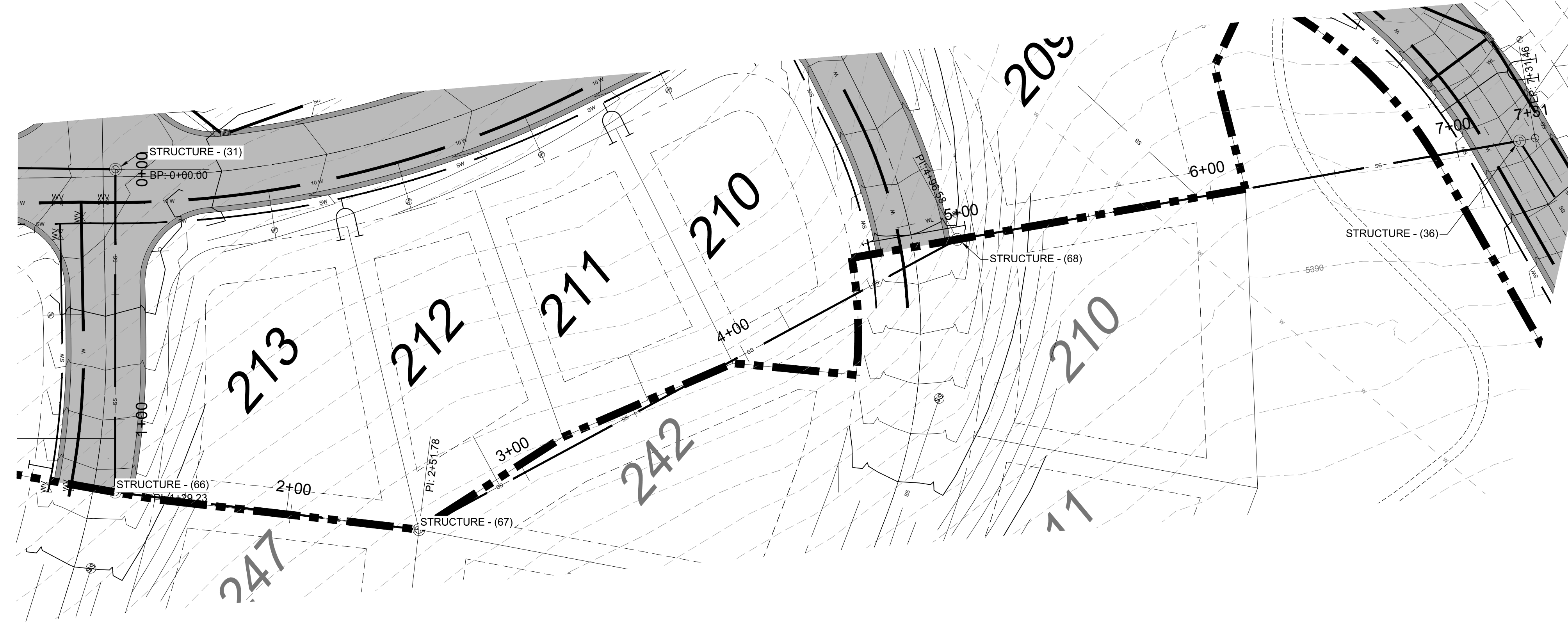

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S7
 25

R:\0311 - Eden, Weber\The Bridges\BRIDGES\DWG\The Bridges Profile.dwg, 03/20/17, 10:53 PM, ANCI (11) (User: D:\A\B\A)



KEY MAP



PROPOSED SEWER back lots

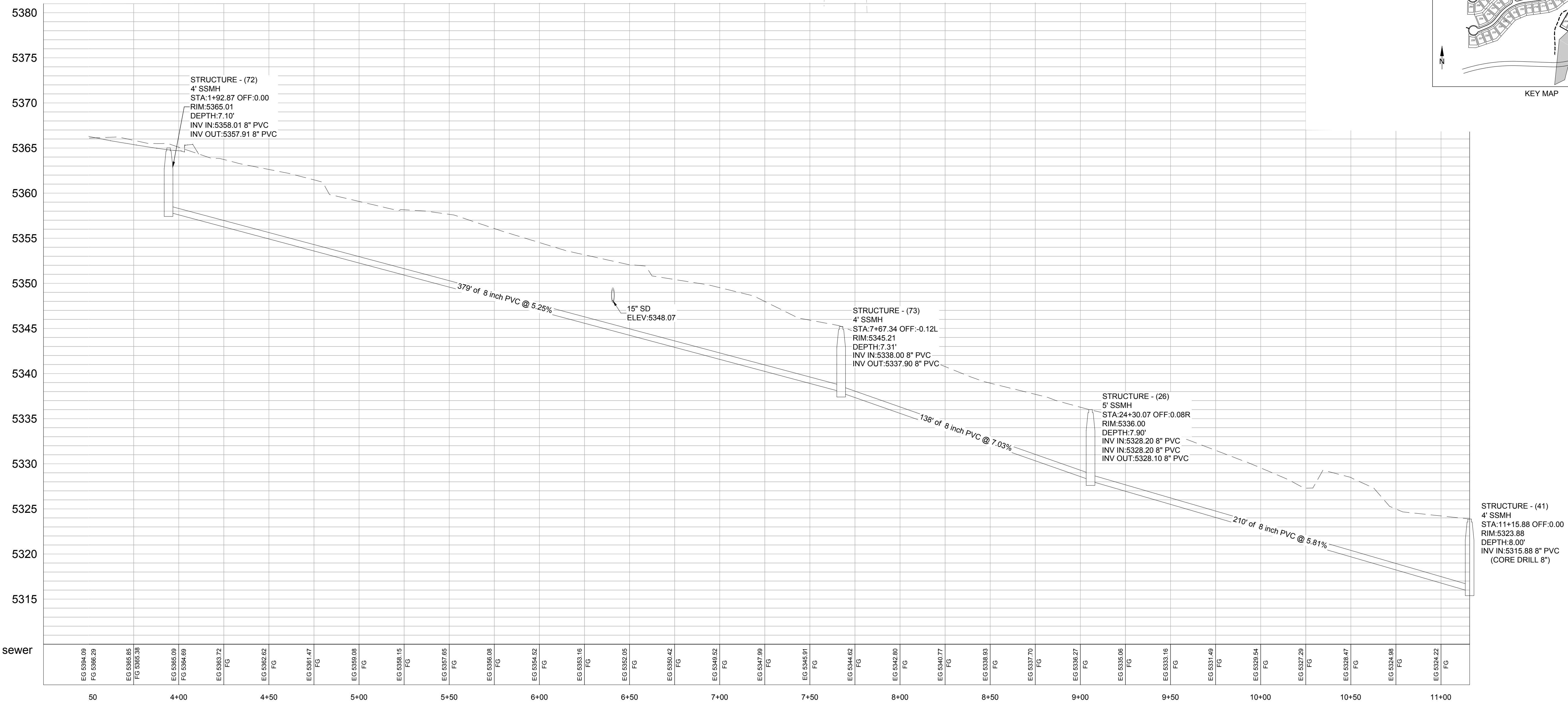
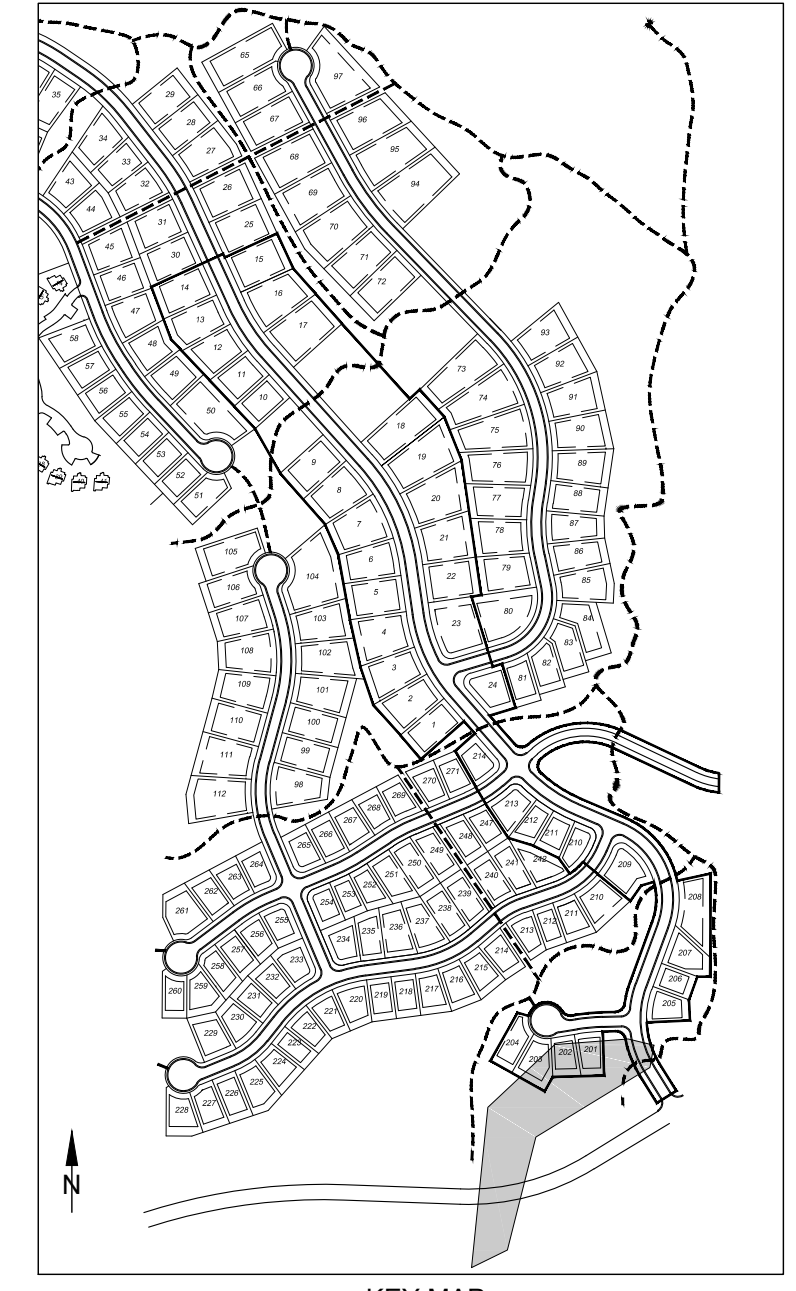
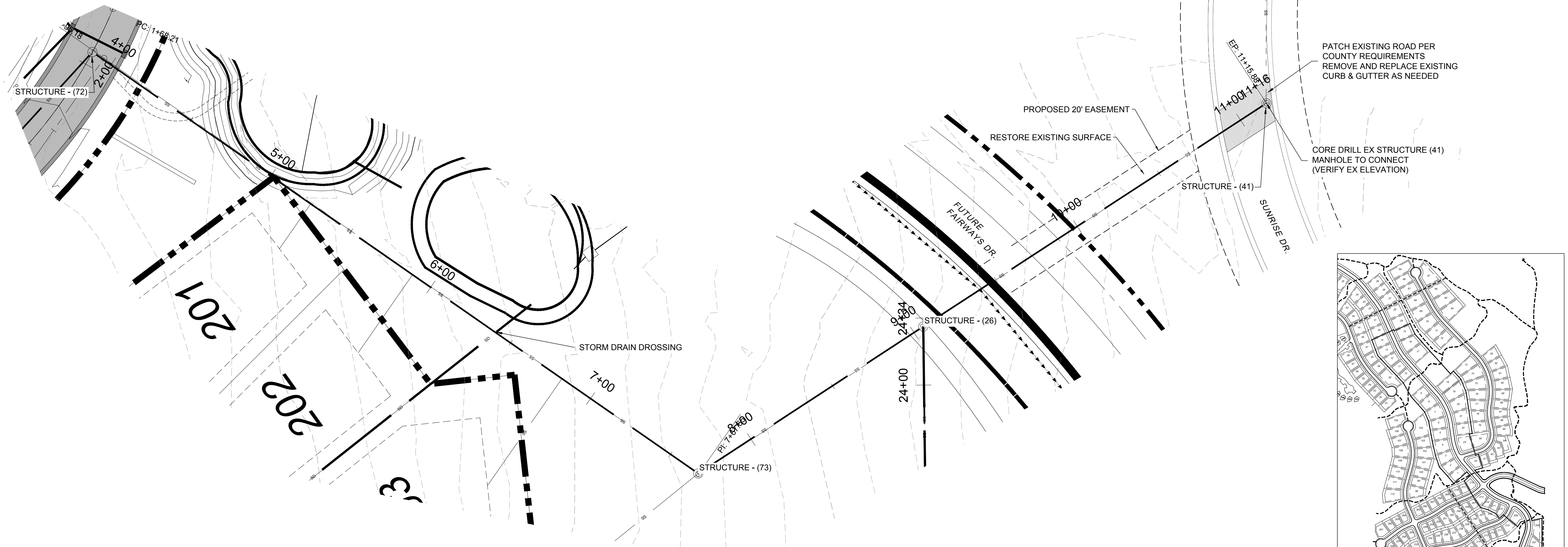
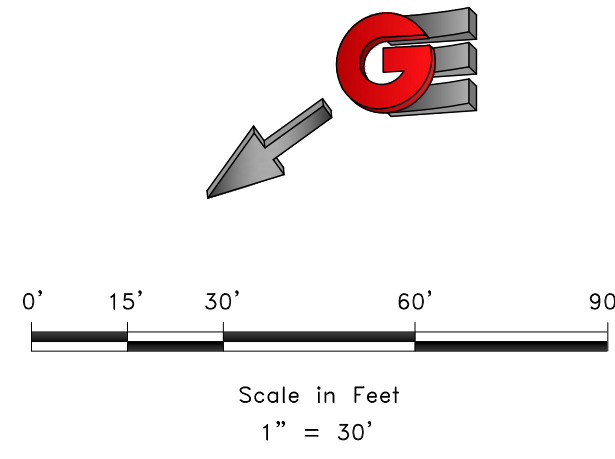
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DATE	DESCRIPTION
3-29-17	REVISED SEWER DEPTH

SCALE 1" = 30'
 DATE 02-16-17
 DESIGNER KAN
 DRAWN KAN
 CHECKED PC
 DWG: RA 1201 - LEWIS HOMES THE BRIDGES DESIGN AND THE BRIDGES DESIGN PH 1.DWG

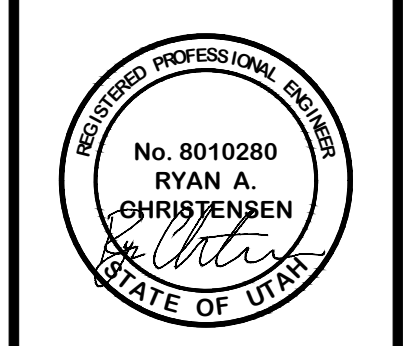


BACKLOT SEWER PROFILE
 THE BRIDGES
 PHASE 1
 EDEN, WEBER COUNTY, UTAH

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SCALE	1" = 30'
DATE	02-15-17
DESIGN	KAN
DRAWN	KAN
CHECKED	RC

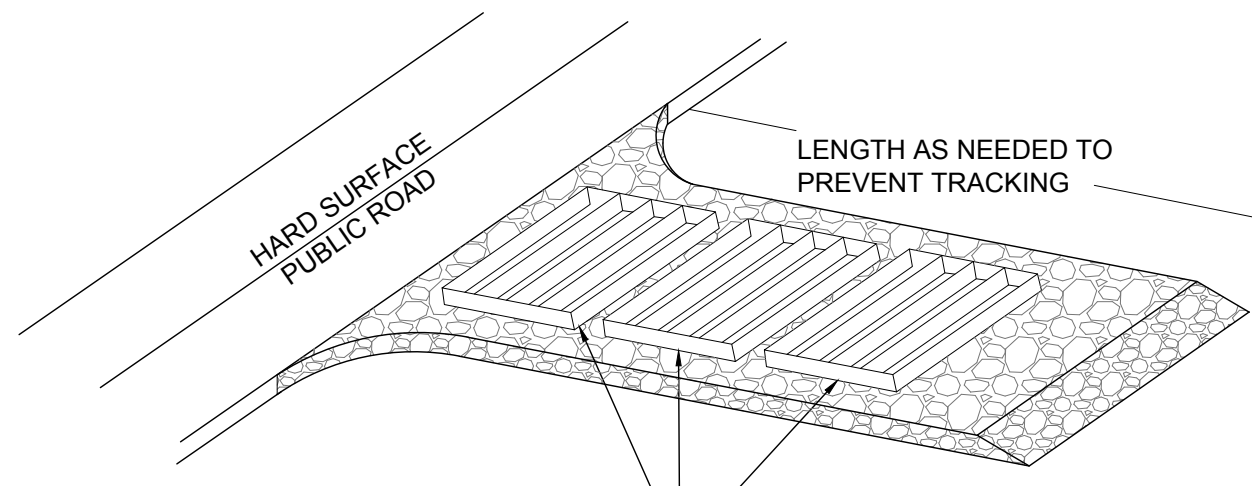
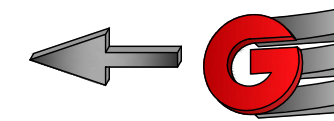


BACKLOT SEWER PROFILE
THE BRIDGES
PHASE 1
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EROSION CONTROL NOTES:

1. SANDBAGS WILL BE PLACED AT DISCHARGE LOCATIONS TO CONTAIN AND DIVERT STORM WATER THROUGH THE INLET PROTECTION.
2. AN EARTHEN BERM 6" HIGH WILL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIVERT IT TO DISCHARGE AREAS.
3. STORM WATER WILL BE DISCHARGED INTO AN EXISTING DRAINAGE SYSTEM. EXISTING LINES SHALL BE INSPECTED PRIOR TO CERTIFICATE OF OCCUPANCY AND CLEANED IF NECESSARY.
4. THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONFORM TO ALL STATE DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.



A SERIES OF STEEL PLATES (3 OR MORE) WITH RUMBLE STRIPS OR MIN. 3" COARSE AGGREGATE.

ENTRANCE STABILIZATION NOTES:

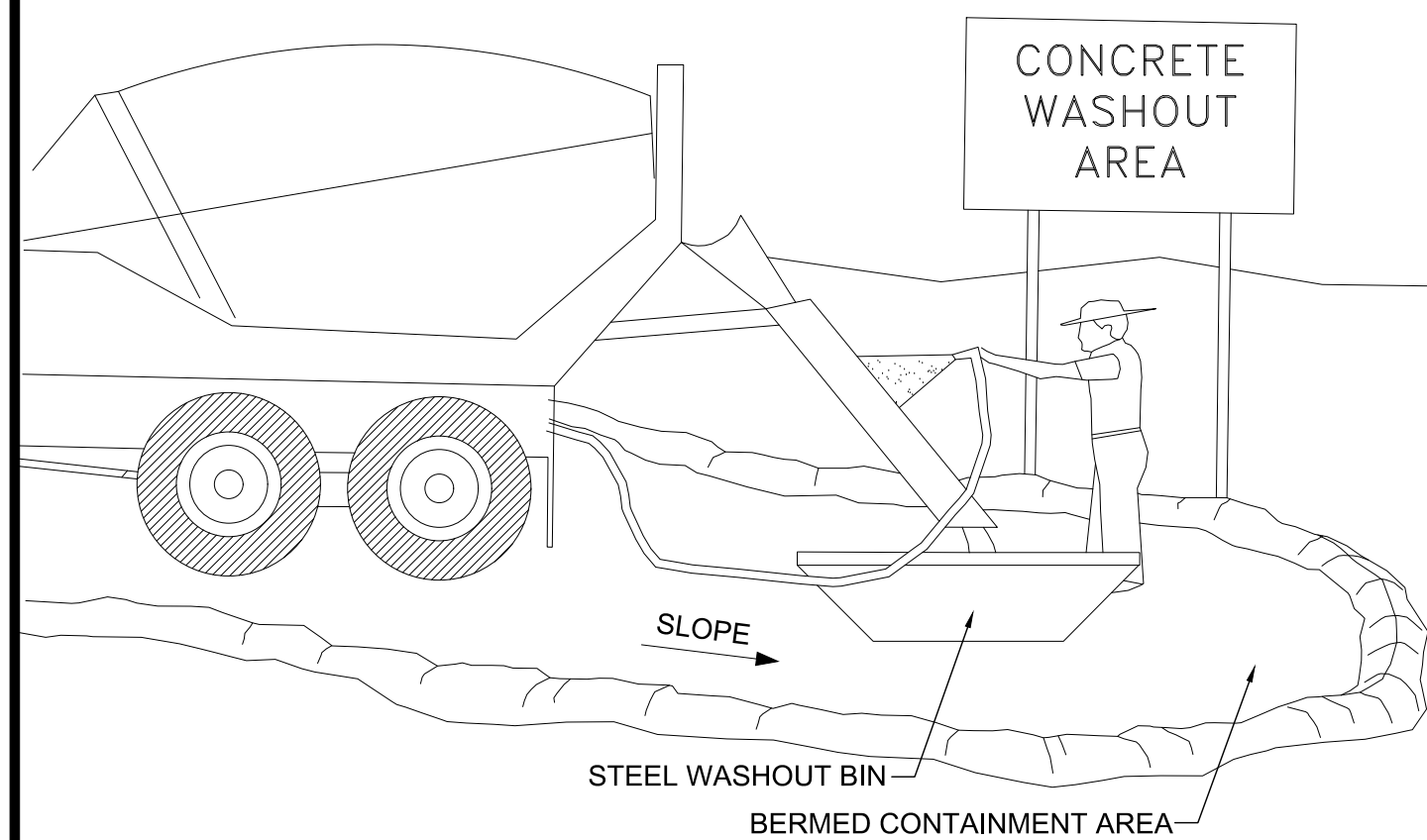
1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE STORM DRAIN SYSTEMS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
 - a. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY AND SIDEWALK OR PARKING AREA.
 - b. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN. 3" COARSE AGGREGATE WITH LENGTH, WIDTH AND THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
 3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
 4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE NOTES:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

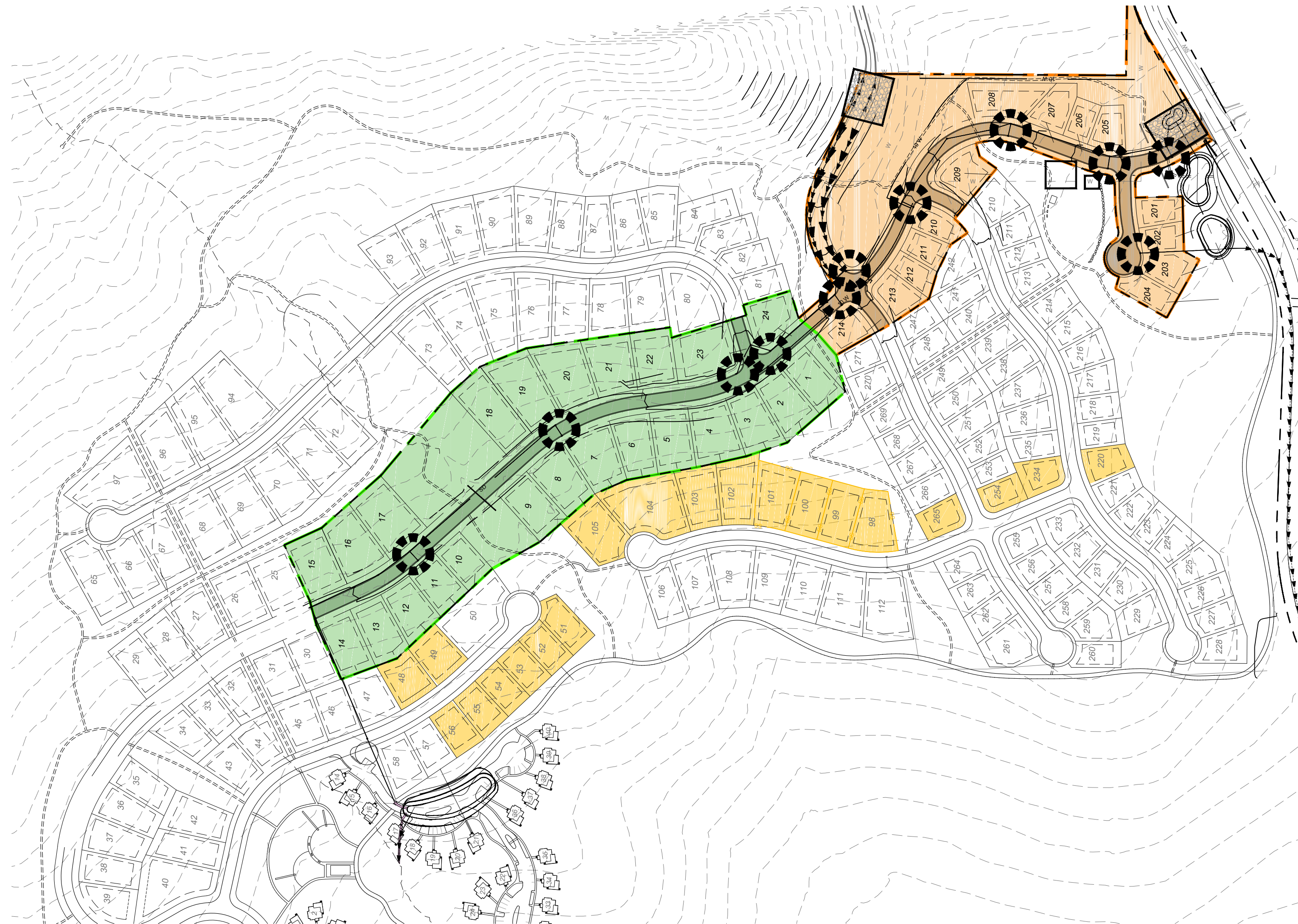
NOTE:

CONTRACTOR SHALL COMPLETE AND SUBMIT A STATE NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN BOOKLET



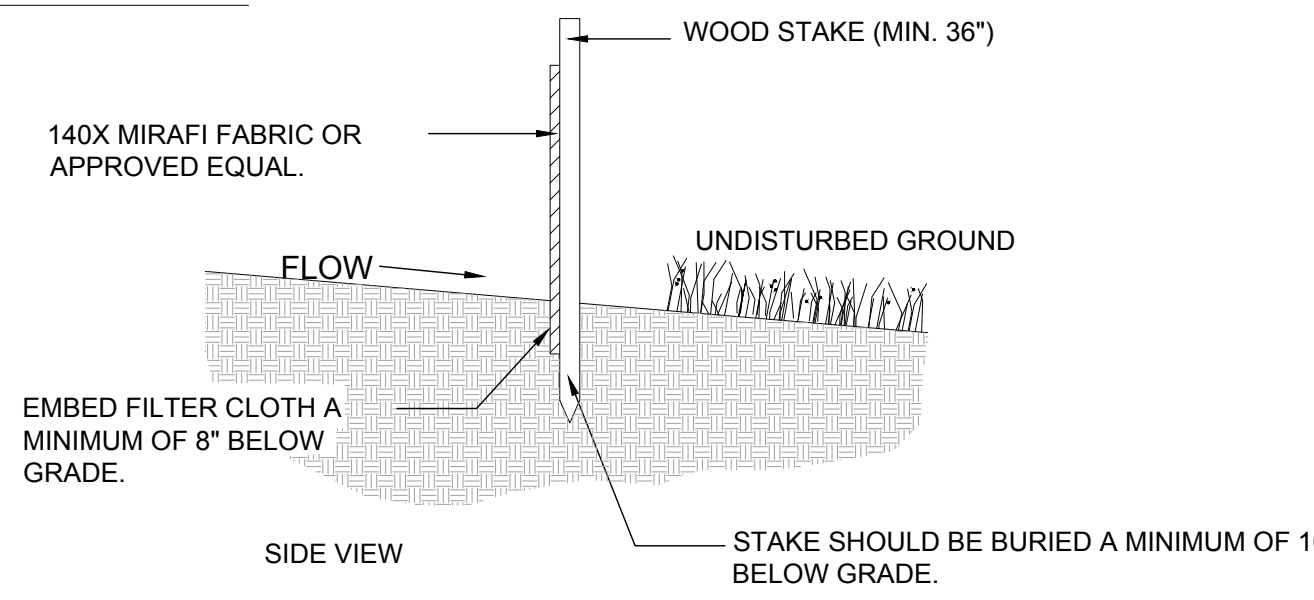
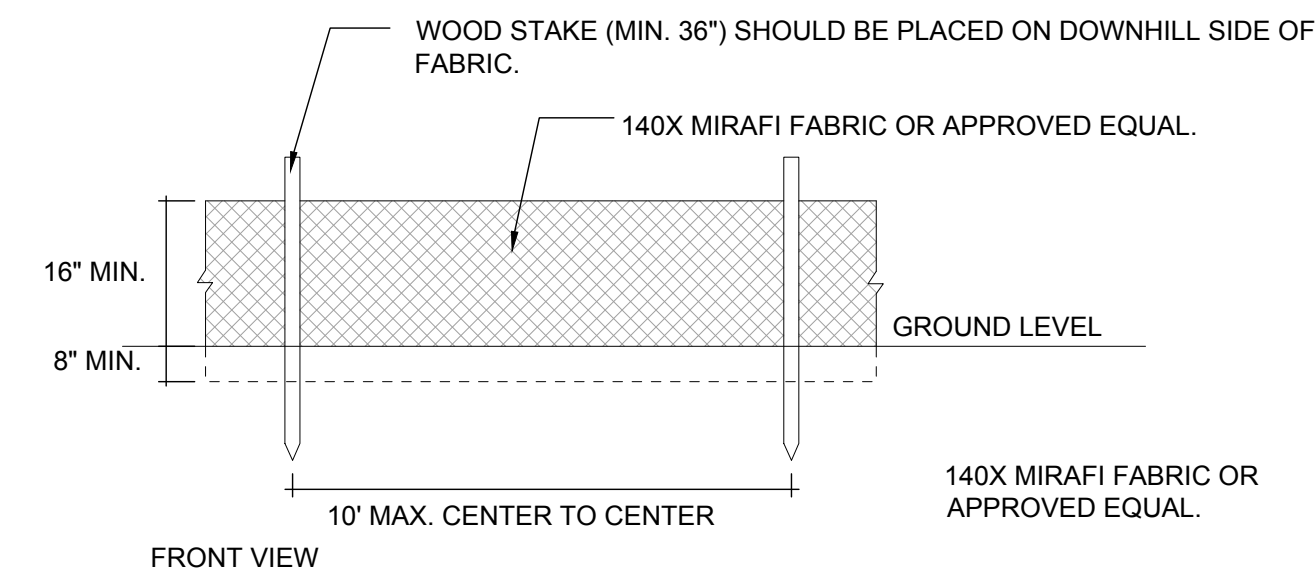
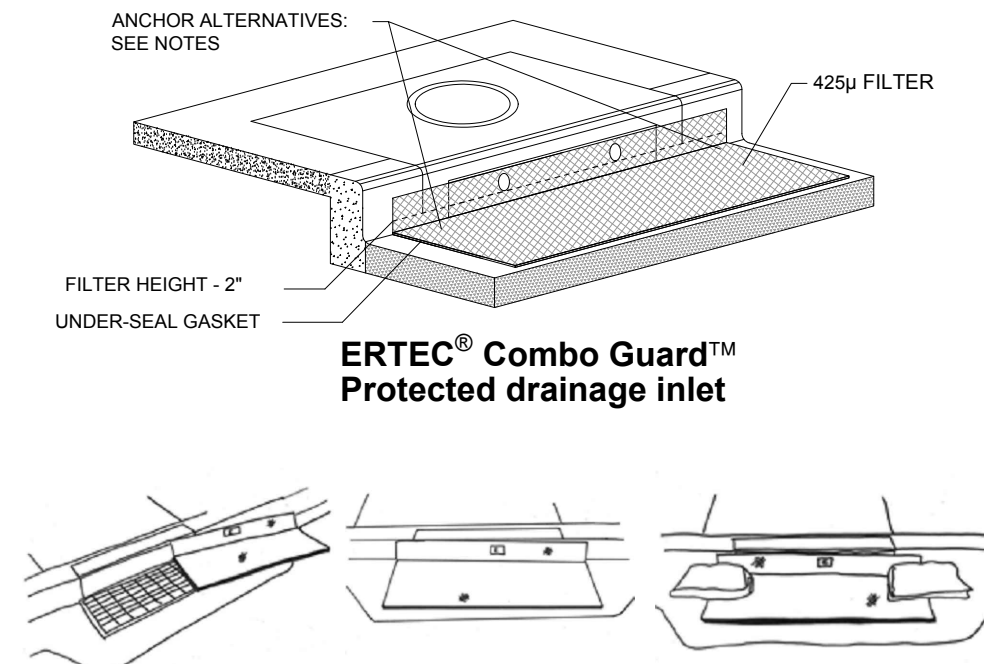
CONCRETE WASTE MANAGEMENT NOTES:

1. EXCESS AND WASTE CONCRETE SHALL BE DISPOSED OF OFF SITE OR AT DESIGNATED AREAS ONLY.
2. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
3. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS ONSITE, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED.
4. ONSITE CONCRETE WASHOUT CONTAINMENT FACILITY SHALL BE A STEEL BIN OR APPROVED ALTERNATE.
5. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.



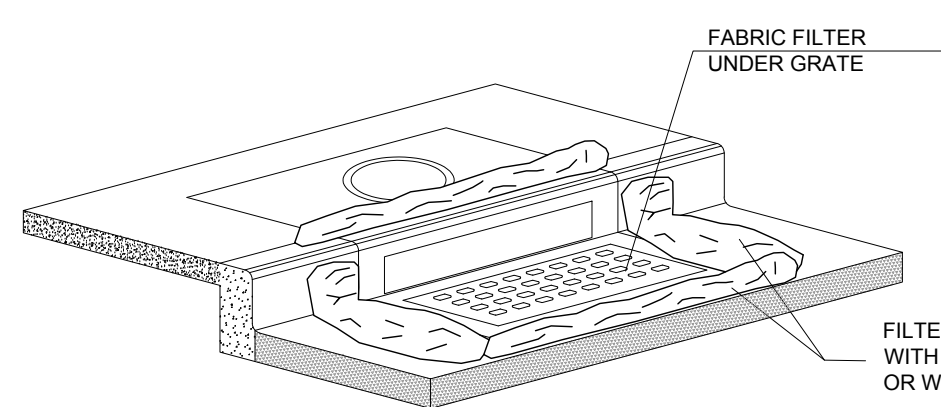
INSTALLATION NOTES

1. PLACEMENT: PLACE CG TIGHTLY AGAINST CURB OPENING AND COVER ENTIRE GRATE. CG SHOULD EXTEND AT LEAST 2 INCHES PAST GRATE TOWARDS STREET.
2. OVERLAP FOR LONG OPENINGS: OVERLAP CG UNITS AT LONGER OPENINGS.
3. ANCHOR: ANCHOR CG SO THAT WATER CANNOT FLOW BEHIND IT.
4. ALTERNATE ANCHOR METHODS: A) INSTALL GRAVEL BAGS AT EACH SIDE OF CG - HALF-ON AND HALF-OFF THE EDGES. USE HALF-FILLED GRAVEL BAGS (15 OR 20 LBS). ROUND ROCK IS RECOMMENDED. OR B) ATTACH WITH 16 GAUGE TIE-WIRE. CUT WIRE TO 18" LENGTH. AT EACH CORNER OF CG, FEED ONE END OF WIRE DOWN THROUGH CG, AROUND GRATE BAR, AND BACK UP THRU CG. ABOVE GROUND, TWIST WIRES SEVERAL TIMES. CUT-OFF EXCESS. OR C) FASTEN WITH CONCRETE ANCHORS/NAILS AT THE OUTSIDE EDGES OF CG.



1A INLET PROTECTION - OPTION 1

Scale: NTS

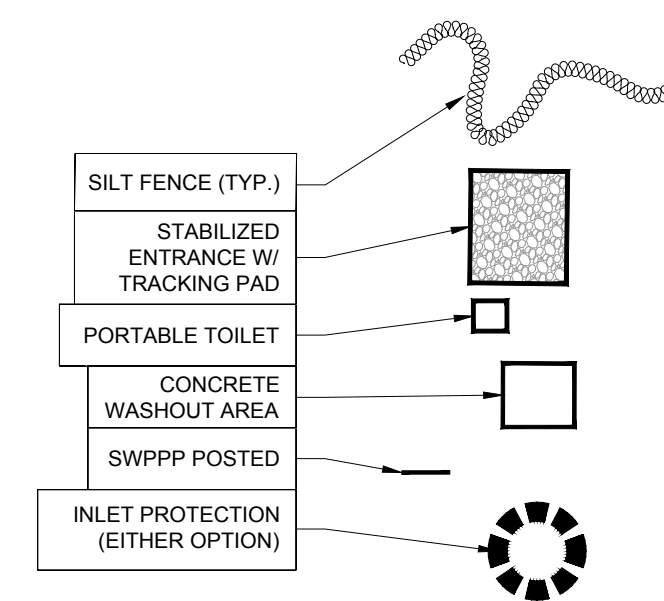


1B INLET PROTECTION - OPTION 2

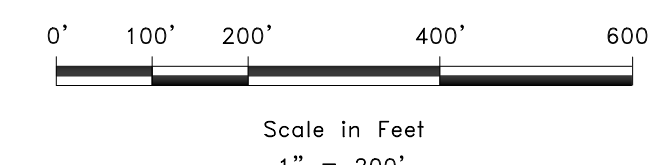
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2 SILT FENCE

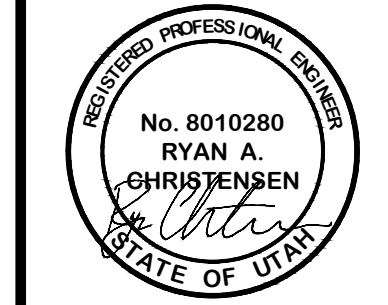
Scale: NTS



DEVELOPER:
LEWIS HOMES
Eric Householder
WOLF CREEK
801-389-0040



SCALE	1" = 200'
DATE	02-16-17
DESIGN	KAN
DRAWN	KAN
CHECKED	RC
REVISIONS	DESCRIPTION
DATE	



SWPPP
THE BRIDGES
PHASE 1
EDEN, WEBER COUNTY, UTAH



SW1
SW1