REVISIONS			
	DESCRIPTION	DATE	SHEETS AFFECTED

LIGHTHOUSE HEIGHTS SUBDIVISION
ELK RIDGE DRIVE
ELK RIDGE, UT

LOCATED IN THE NORTHWEST
QUARTER OF SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST,
SALT LAKE BASE AND MERIDIAN
ELK RIDGE, UTAH COUNTY, UTAH

APRIL 30, 2021

INDEX OF SHEETS	
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C1.0	DEMOLITION PLAN
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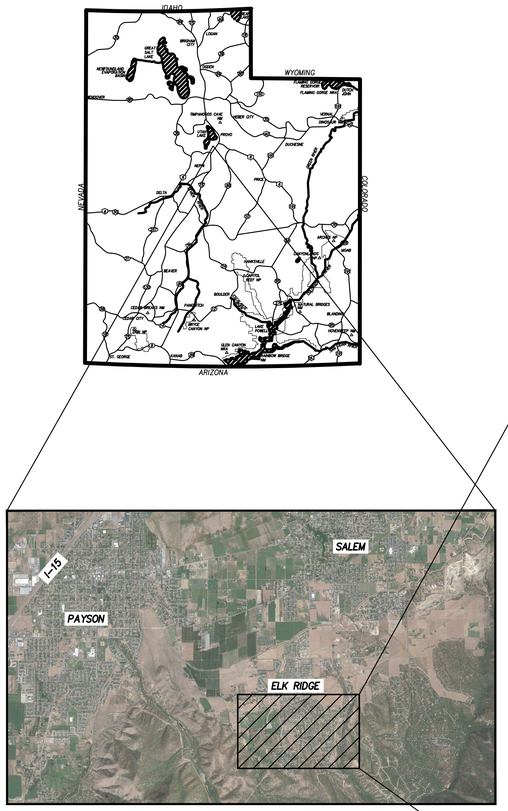
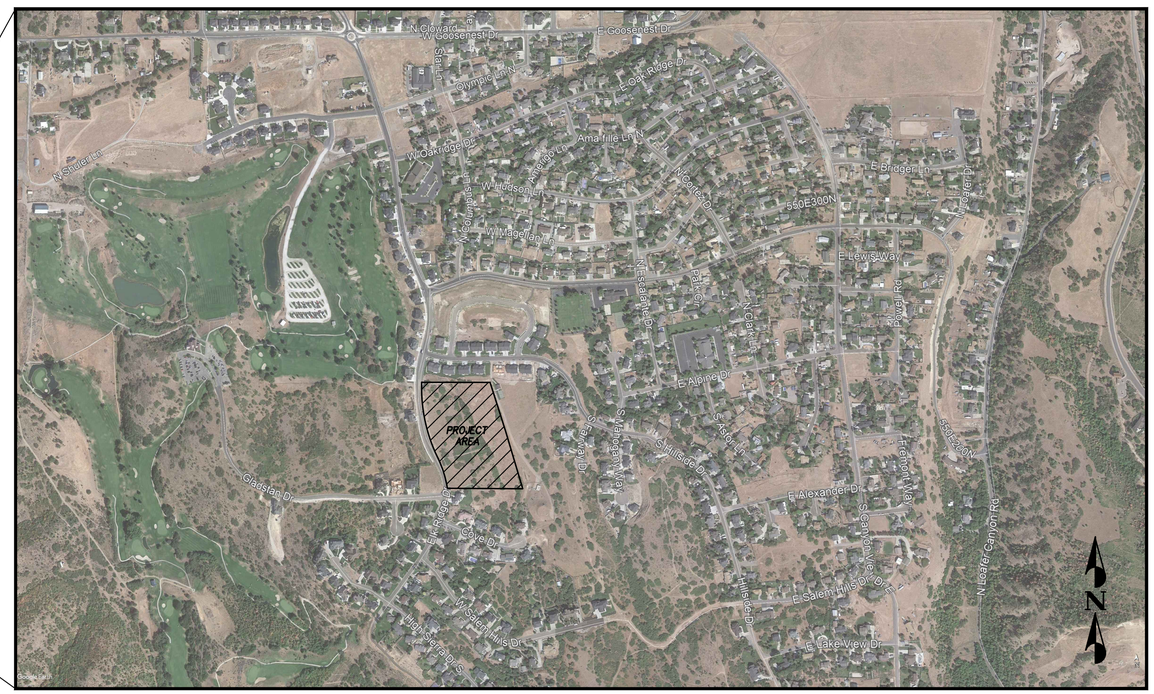
C3.0	UTILITY PLAN
C4.0–C4.1	GRADING & DRAINAGE PLAN
C5.0–C5.3	PLAN & PROFILE
C6.0–C6.1	EROSION CONTROL PLAN
C7.0–C7.2	TYPICAL SECTIONS AND DETAILS





VICINITY MAP
NOT TO SCALE

ENGINEER/LAND SURVEYOR
PEPG CONSULTING, L.L.C.
CONTACT: RYAN KITCHEN (PROJECT ENGINEER)
AT (801) 562-2521
CONTACT: ROB LAW (SURVEYOR MANAGER)
AT (801) 562-2521

CLIENT
LIGHTHOUSE CUSTOM HOMES
PO BOX 525
RIVERTON, UT 84065
CONTACT: NATE BRUSIK

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

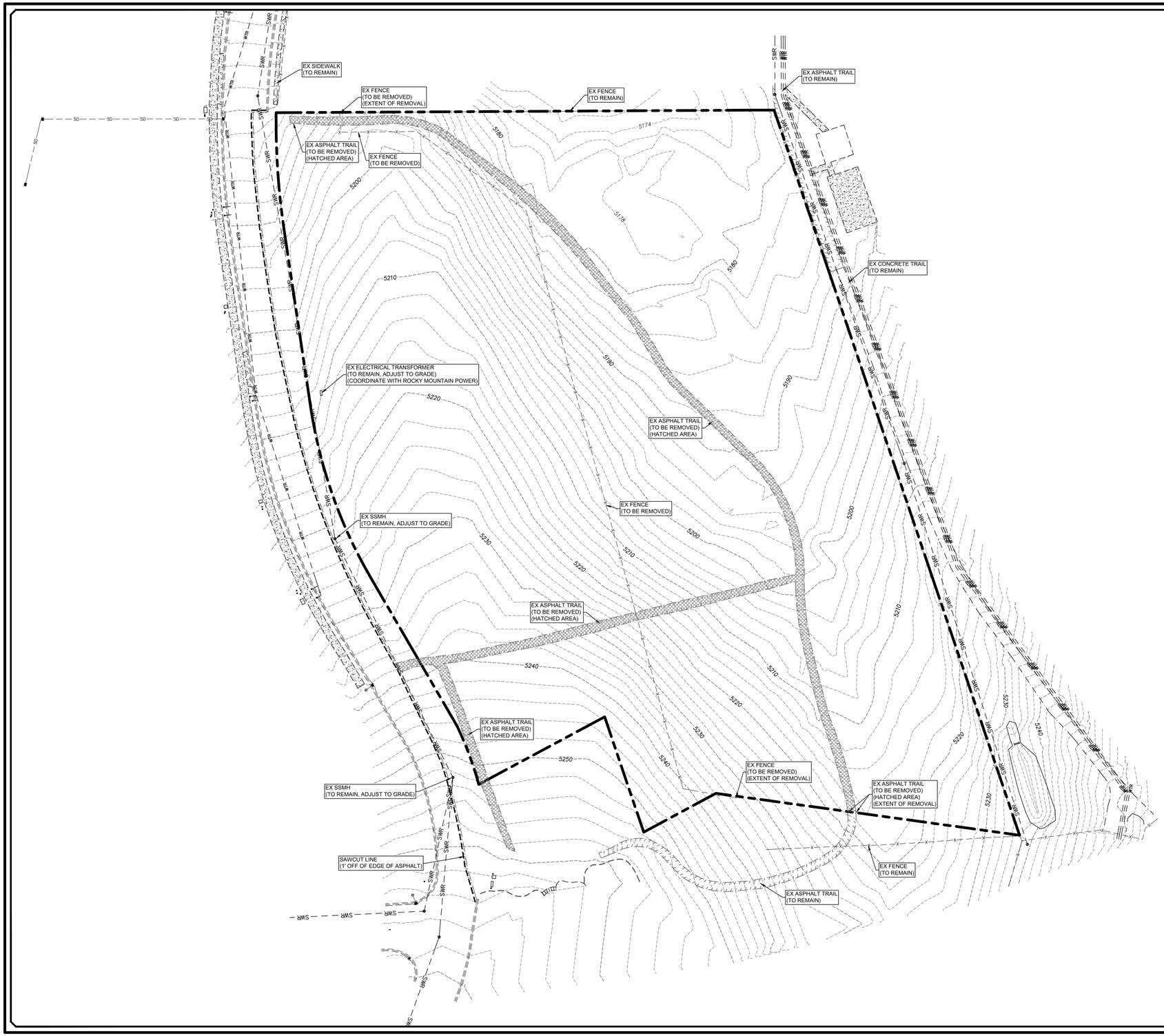
REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

Blue Stakes of UTAH 811
Bluestakes.org

PEPG CONSULTING L.L.C.
9270 SOUTH 300 WEST • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

DATE:	PROJECT:	FILE:	SHEET NO.
APRIL 30, 2021	6898.2010	DWG/00-TITLE-01	C0.0



N

−50 0 50 100

SCALE IN FEET

LEGEND

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING ASPHALT

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. IN THE ABSENCE OF PROJECT STANDARD AND SPECIFICATIONS APWA STANDARD AND SPECIFICATIONS SHALL GOVERN.
2. CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL SIDEWALK, PAVEMENT, GRAVEL, UTILITIES, LANDSCAPING, IRRIGATION, FENCING AND EXISTING IMPROVEMENTS DAMAGED AS PART OF CONSTRUCTION.
3. SIDEWALKS AND CURBS DESIGNATED TO BE DEMOLISHED SHALL BE DEMOLISHED TO THE NEAREST EXPANSION JOINT, MATCHING THESE PLANS AS CLOSELY AS POSSIBLE.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT BLUE STAKES OF UTAH PRIOR TO STARTING ANY ACTIVITIES. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATIONS ONLY.
5. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEN EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE. ENSURE ALL OSHA STANDARDS ARE FOLLOWED.
4. CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL AND MAINTAIN APPROPRIATE TRAFFIC CONTROL DEVICES, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE SAFE AND EFFICIENT MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO ROAD WORKERS.
5. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.

BENCHMARK
NORTHWEST CORNER SECTION 26, TOWNSHIP 9 SOUTH, RANGE 2 EAST SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE :	1/21
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SCALE :	1"=50'

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LIGHTHOUSE HEIGHTS SUBDIVISION

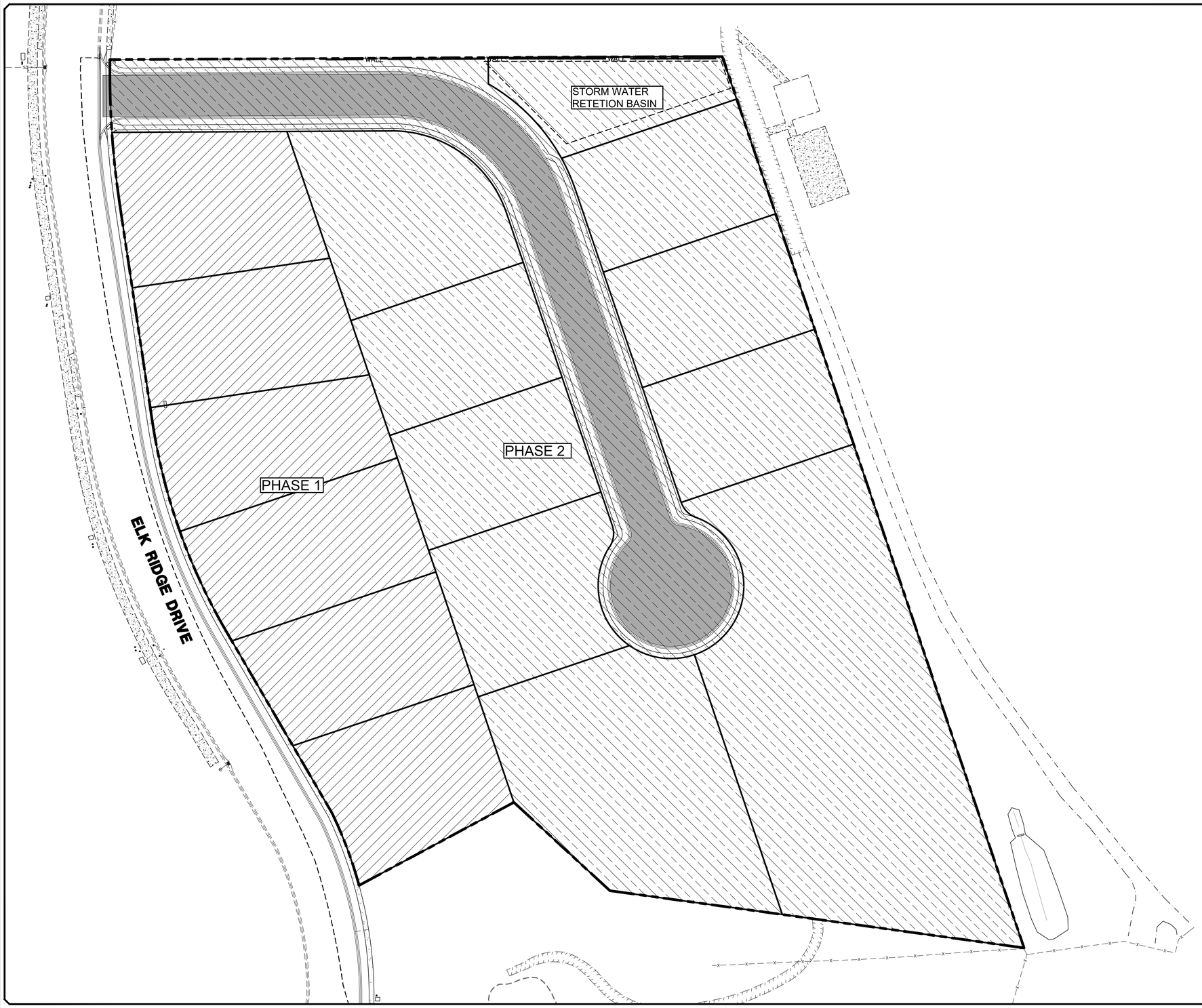
DEMOLITION PLAN

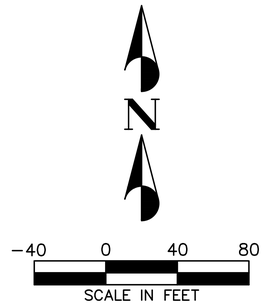
APRIL 30, 2021	DWG\01-DEMO-01
LAST REVISED	DRAWING FILE
6898.2010	
PROJECT NUMBER	

ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C1.0





LEGEND

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING ASPHALT
- EXISTING DIRT ROAD
- PROPOSED LOT LINE
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED SAWCUT LINE

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. IN THE ABSENCE OF PROJECT STANDARD AND SPECIFICATIONS APWA STANDARD AND SPECIFICATIONS SHALL GOVERN.
2. CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL SIDEWALK, PAVEMENT, GRAVEL, UTILITIES, LANDSCAPING, IRRIGATION, FENCING AND EXISTING IMPROVEMENTS DAMAGED AS PART OF CONSTRUCTION.
3. ALL CURB DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL WORK SHALL COMPLY WITH THE PROJECT PLANS, PROJECT SPECIFICATIONS, AND PROJECT GEOTECHNICAL ENGINEERING REPORT, WHICHEVER IS THE MOST STRINGENT.
5. ALL STRIPING, PAVEMENT MARKINGS, AND SIGNAGE TO COMPLY WITH THE CURRENT M.U.T.C.D. EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCAL CODE, WHICHEVER IS MORE STRINGENT.
6. CONTRACTOR IS RESPONSIBLE FOR PERFORMING WORK ON OR ADJACENT TO A PUBLIC ROAD TO PROVIDE, INSTALL, AND MAINTAIN APPROPRIATE TRAFFIC CONTROL DEVICES, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE SAFE AND EFFICIENT MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO ROAD WORKERS.
7. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN CONTACT ENGINEER FOR CLARIFICATION.
8. FIRE HYDRANTS AND ACCESS ROADS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF ANY BUILDINGS. ALL HYDRANTS SHALL BE PLACED WITH THE 4 1/2" CONNECTION FACING THE POINT OF ACCESS FOR FIRE DEPARTMENT APPARATUS. PROVIDE WRITTEN ASSURANCE THAT THIS IS MET.
9. PRIOR TO BEGINNING CONSTRUCTION OF ANY BUILDINGS, A FIRE FLOW TEST OF THE NEW HYDRANTS SHALL BE CONDUCTED TO VERIFY THE ACTUAL FIRE FLOW AVAILABLE FOR THIS PROJECT. THE FIRE PREVENTION DIVISION OF THIS DEPARTMENT SHALL WITNESS THIS TEST AND SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE TEST.
10. ALL LOTS ARE RESPONSIBLE TO RETAIN ALL WATER RUNOFF TO WITHIN THEIR PROPERTY LOT THROUGH SWALES OR RETENTION POND, DEPRESSED AREA.
11. ALL FINAL EARTHWORK MUST MEET GEOTECHNICAL SPECIFICATIONS.
12. ALL BUILDING FOOTINGS MUST BE PLACED ON NATIVE SOIL.
13. CLEAR AND GRUB PRIOR TO CONSTRUCTION.
14. EARTHWORK BEING ADDED TO EXISTING GRADE MUST BE DONE IN 6 TO 12 INCH LIFTS AND COMPACTED TO 95% UNTIL FINAL GRADE IS MET.

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
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NAD 83 COORDINATE

Blue Stakes of UTAH811
Bluestakes.org

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LIGHTHOUSE HEIGHTS SUBDIVISION

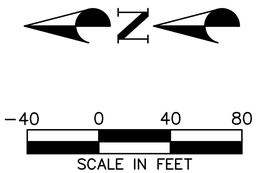
SITE PHASING

APRIL 30, 2021 — LAST REVISED
6898.2010 — PROJECT NUMBER
DWG\02-SITE-01 — DRAWING FILE

ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C2.0



LEGEND

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING ASPHALT
- EXISTING DIRT ROAD
- PROPOSED LOT LINE
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED SAWCUT LINE

KEYNOTE LEGEND

1. ASPHALT PAVEMENT REQ'D
2. 4' CONCRETE SIDEWALK REQ'D
3. TYPE-D CURB & GUTTER REQ'D
4. 4' WATERWAY REQ'D
5. RETAINING WALL REQ'D
6. PROPOSED FIRE HYDRANT REQ'D

BENCHMARK
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LIGHTHOUSE HEIGHTS SUBDIVISION

SITE PLAN

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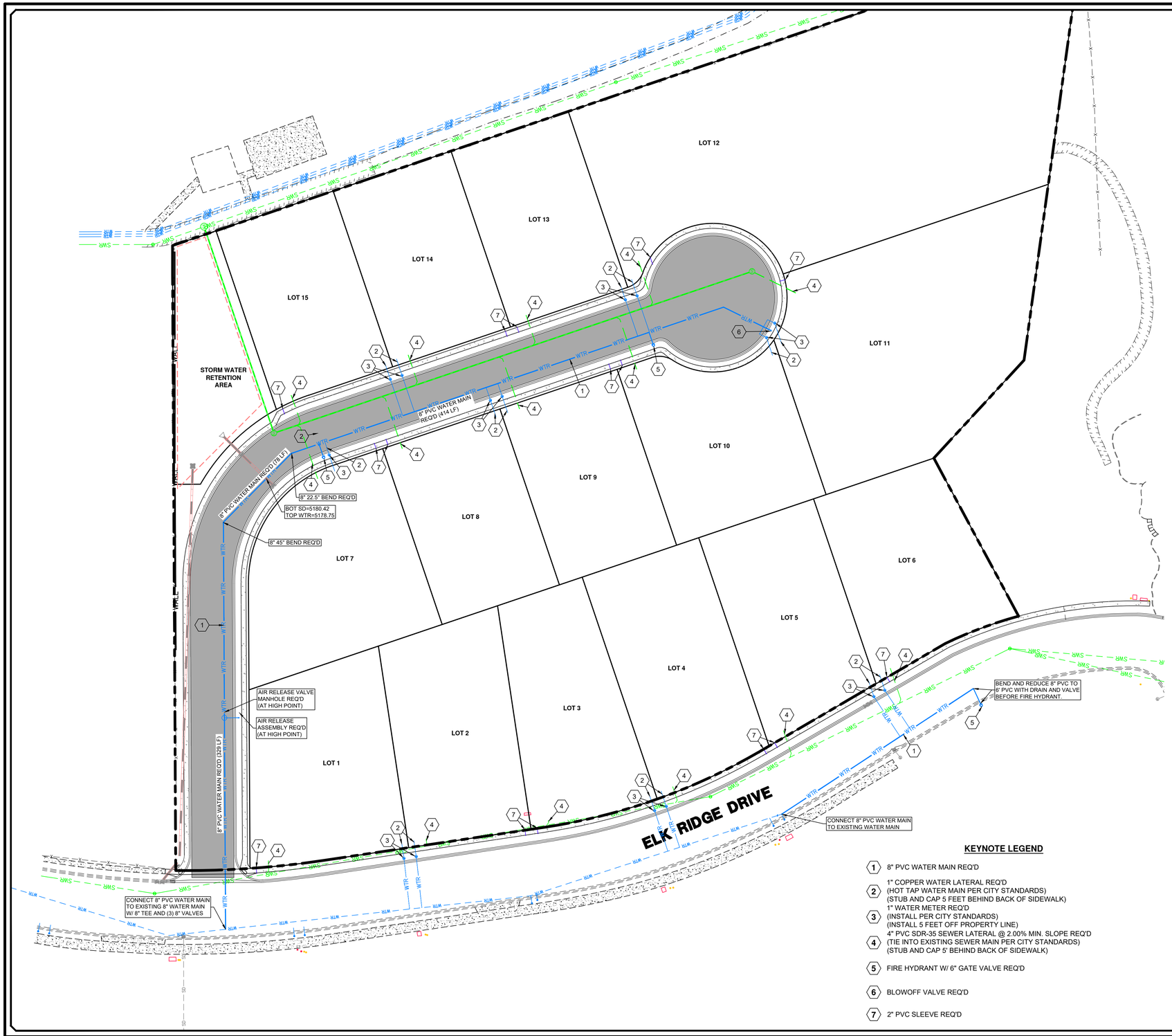

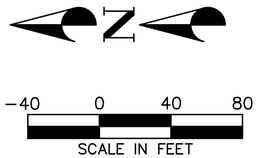

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- EXISTING STORM DRAIN LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELECOM LINE
- EXISTING GAS LINE
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED SEWER LATERAL
- PROPOSED STORM DRAIN LINE
- PROPOSED SAWCUT LINE

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8. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
9. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
10. WATER AND SEWER LINES SHALL HAVE A MINIMUM OF 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION. SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
11. FIRE HYDRANTS AND ACCESS ROADS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF ANY BUILDINGS. ALL HYDRANTS SHALL BE PLACED WITH THE 4 1/2" CONNECTION FACING THE POINT OF ACCESS FOR FIRE DEPARTMENT APPARATUS. PROVIDE WRITTEN ASSURANCE THAT THIS IS MET.
12. TRACER WIRE IS REQUIRED OVER THE NEW SEWER LINES.

KEYNOTE LEGEND

1. 8" PVC WATER MAIN REQ'D
2. 1" COPPER WATER LATERAL REQ'D (HOT TAP WATER MAIN PER CITY STANDARDS) (STUB AND CAP 5 FEET BEHIND BACK OF SIDEWALK)
3. 1" WATER METER REQ'D (INSTALL PER CITY STANDARDS) (INSTALL 5 FEET OFF PROPERTY LINE)
4. 4" PVC SDR-35 SEWER LATERAL @ 2.00% MIN. SLOPE REQ'D (TIE INTO EXISTING SEWER MAIN PER CITY STANDARDS) (STUB AND CAP 5' BEHIND BACK OF SIDEWALK)
5. FIRE HYDRANT W/ 6" GATE VALVE REQ'D
6. BLOWOFF VALVE REQ'D
7. 2" PVC SLEEVE REQ'D

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LIGHTHOUSE HEIGHTS SUBDIVISION

UTILITY PLAN

APRIL 30, 2021	DWG\03-UTIL-01
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ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C3.0

N

−40 0 40 80

SCALE IN FEET

LEGEND

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELECOM LINE
- EXISTING GAS LINE
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED SAWCUT LINE

ACRONYM DEFINITIONS

EG	EXISTING GRADE
FG	FINISHED GRADE
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TOW	TOP OF WALL
BOW	BOTTOM OF WALL

NOTES

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7. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
8. EACH LOT IS REQUIRED TO RETAIN ITS OWN STORMWATER RUNOFF.

BENCHMARK
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PHONE: (801) 562-2521 • FAX: (801) 562-2551
CIVIL ENGINEERING - LAND SURVEYING - PROJECT MANAGEMENT
GEOTECHNICAL - MATERIALS TESTING - INSPECTIONS

LIGHTHOUSE HEIGHTS SUBDIVISION

GRADING & DRAINAGE PLAN

APRIL 30, 2021 — LAST REVISED
6898.2010 — PROJECT NUMBER
DWG\04-GRADE-01 — DRAWING FILE

ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C4.0

N

−40 0 40 80

SCALE IN FEET

LEGEND

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELECOM LINE
- EXISTING GAS LINE
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED SAWCUT LINE

ACRONYM DEFINITIONS

EG	EXISTING GRADE
FG	FINISHED GRADE
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TOW	TOP OF WALL
BOW	BOTTOM OF WALL

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. IN THE ABSENCE OF PROJECT STANDARD AND SPECIFICATIONS APWA STANDARD AND SPECIFICATIONS SHALL GOVERN.
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5. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT BLUE STAKES OF UTAH PRIOR TO STARTING ANY ACTIVITIES. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATIONS ONLY.
6. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEN EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE. ENSURE ALL OSHA STANDARDS ARE FOLLOWED.
7. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
8. EACH LOT IS REQUIRED TO RETAIN ITS OWN STORMWATER RUNOFF.

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE :	1/21
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DRAWN BY :	RTD
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SCALE :	1"=40'

PEPG CONSULTING L.L.C.
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LIGHTHOUSE HEIGHTS SUBDIVISION

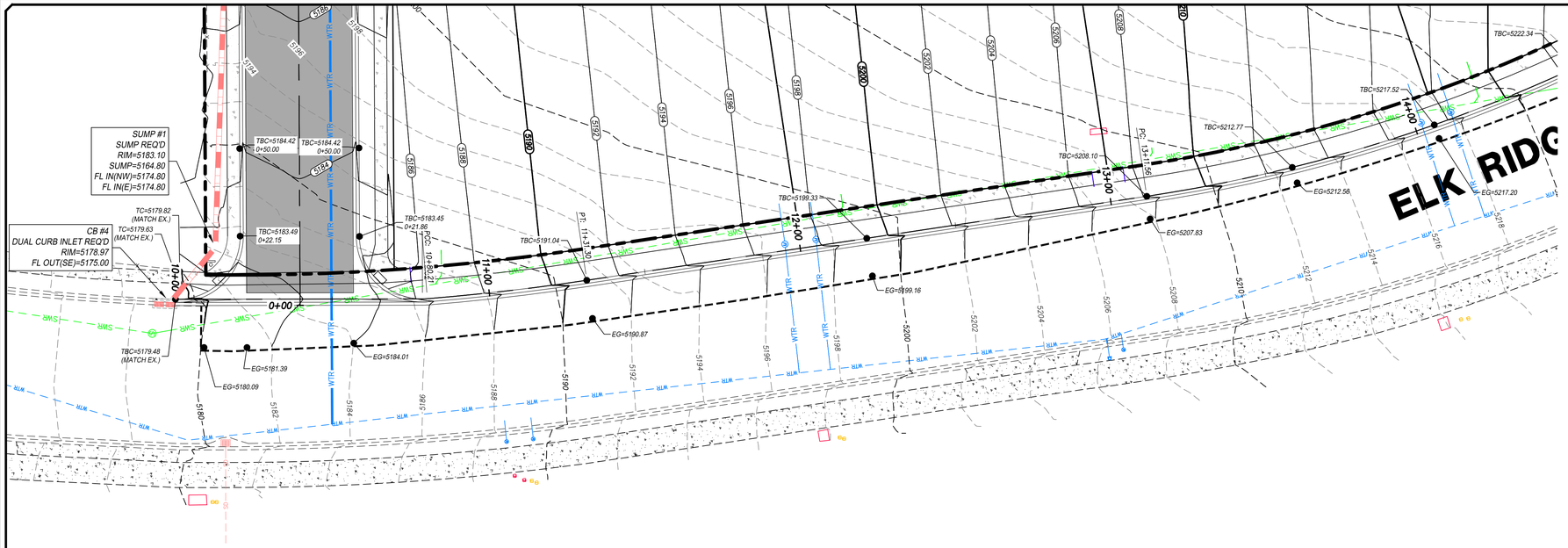
GRID GRADING PLAN

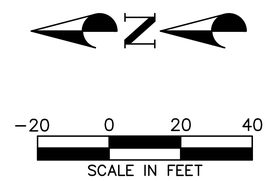
APRIL 30, 2021 | LAST REVISED
6898.2010 | PROJECT NUMBER
DWG\04-GRADE-01 | DRAWING FILE

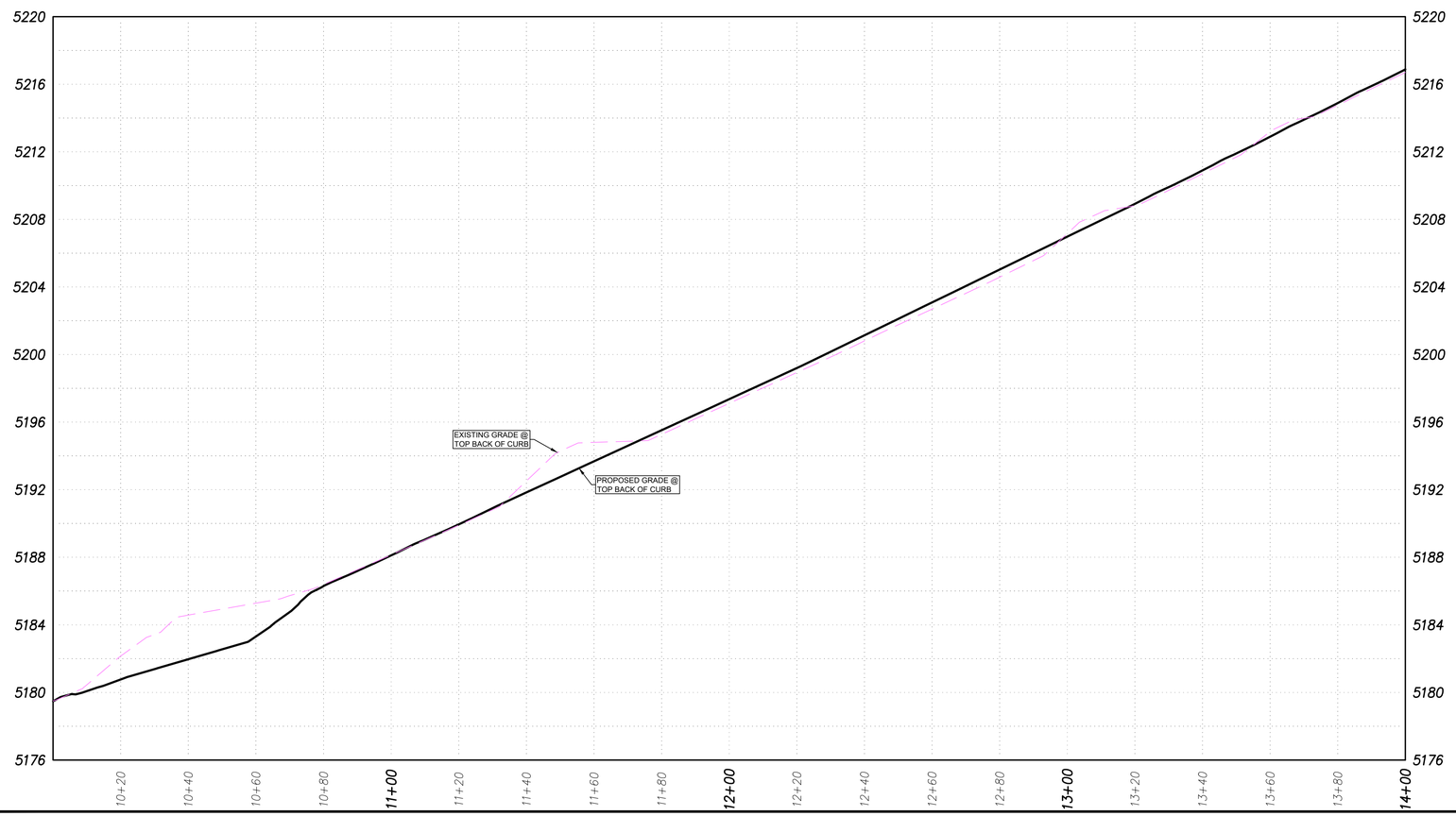
ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C4.1







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BENCHMARK
NORTHWEST CORNER SECTION 26, TOWNSHIP 9 SOUTH, RANGE 2 EAST SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

Blue Stakes of UTAH 811 Bluestakes.org

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LIGHTHOUSE HEIGHTS SUBDIVISION

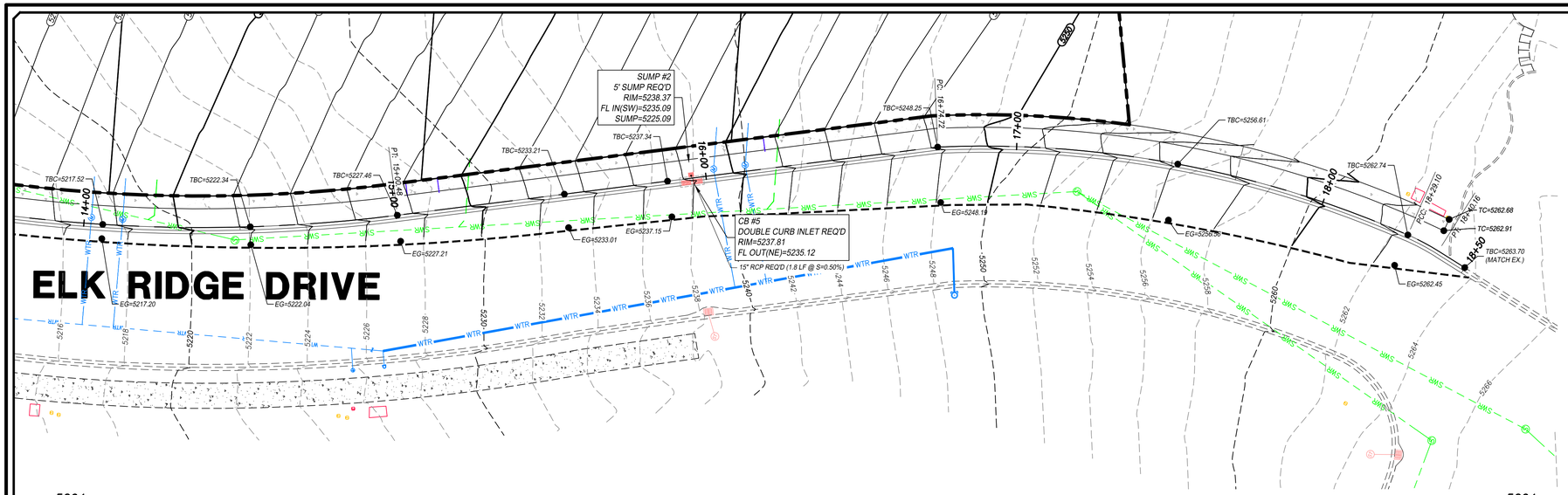
C&G PLAN & PROFILE
STA = 10+00 ~ 14+00

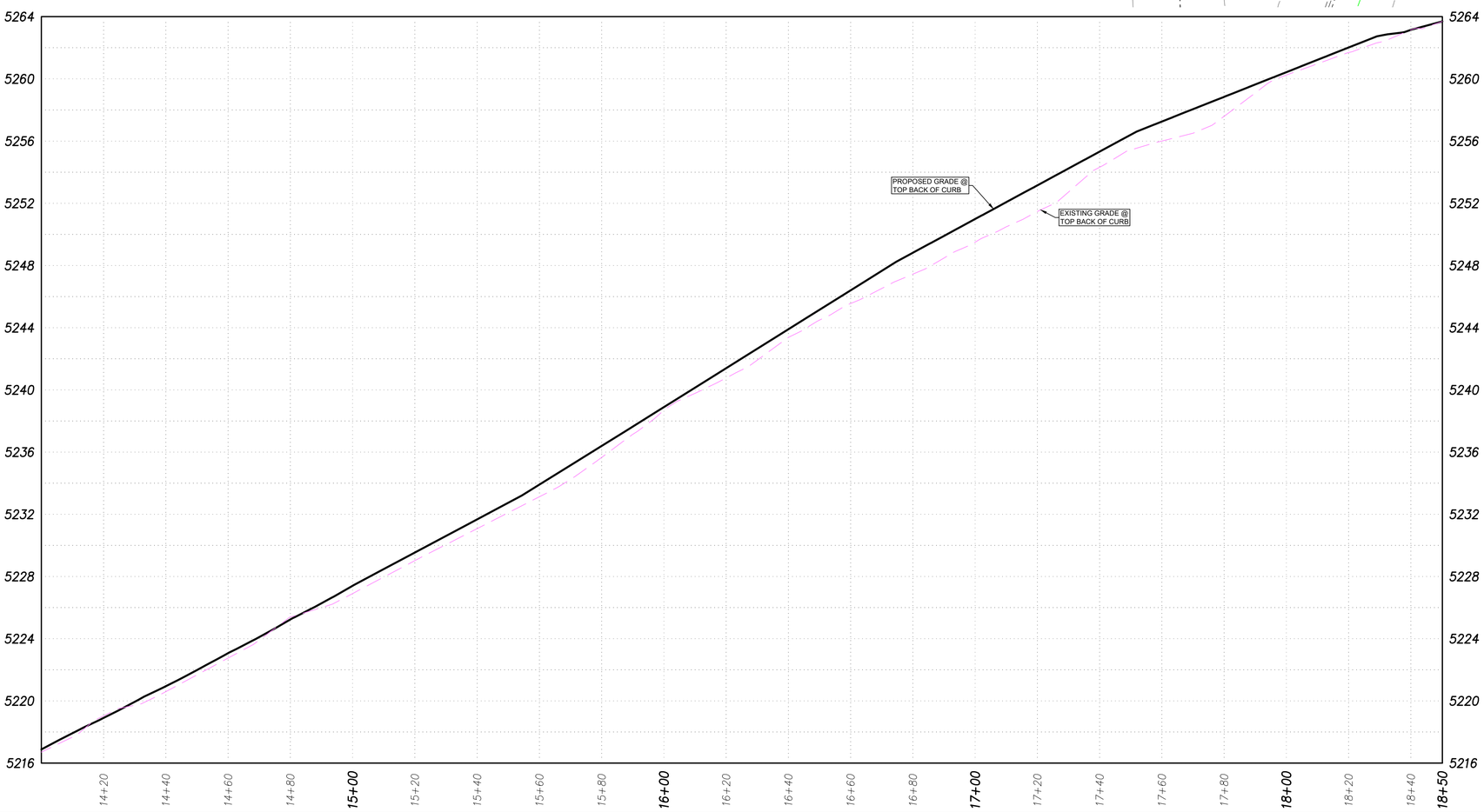
APRIL 30, 2021 — LAST REVISED
6898.2010 — PROJECT NUMBER
DWG\05-PL&PRO-01 — DRAWING FILE

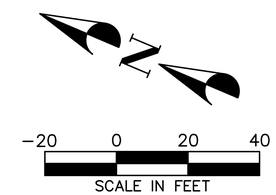
ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C5.0







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TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
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NAD 83 COORDINATE

Blue Stakes of UTAH 811
Bluestakes.org

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LIGHTHOUSE HEIGHTS SUBDIVISION

C&G PLAN & PROFILE
STA = 14+00 ~ 18+50

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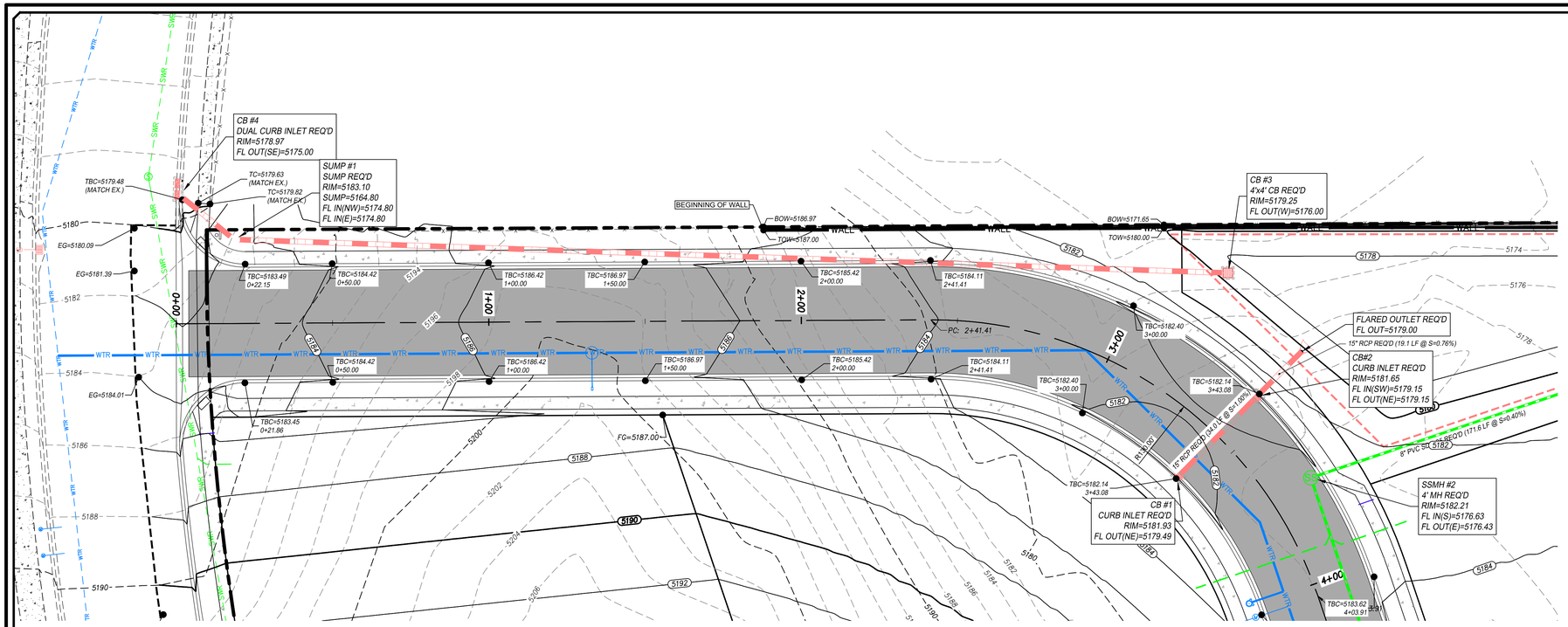
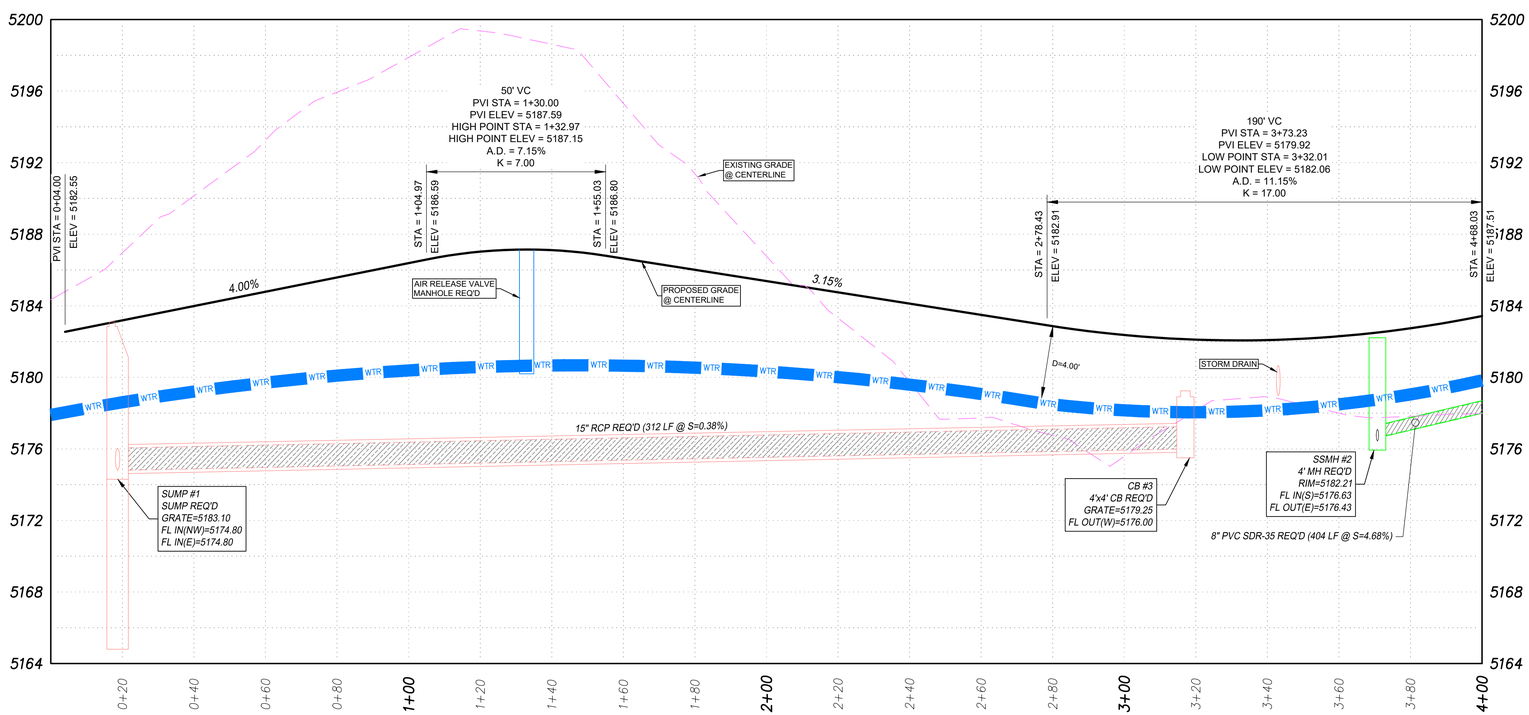
SHEET NO. C5.1





N

−20 0 20 40

SCALE IN FEET

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BENCHMARK
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TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

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LIGHTHOUSE HEIGHTS SUBDIVISION

ROAD PLAN & PROFILE
STA = 0+00 ~ 4+00

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6898.2010 — PROJECT NUMBER
DWG\05-PLAPRO-01 — DRAWING FILE

ELK RIDGE
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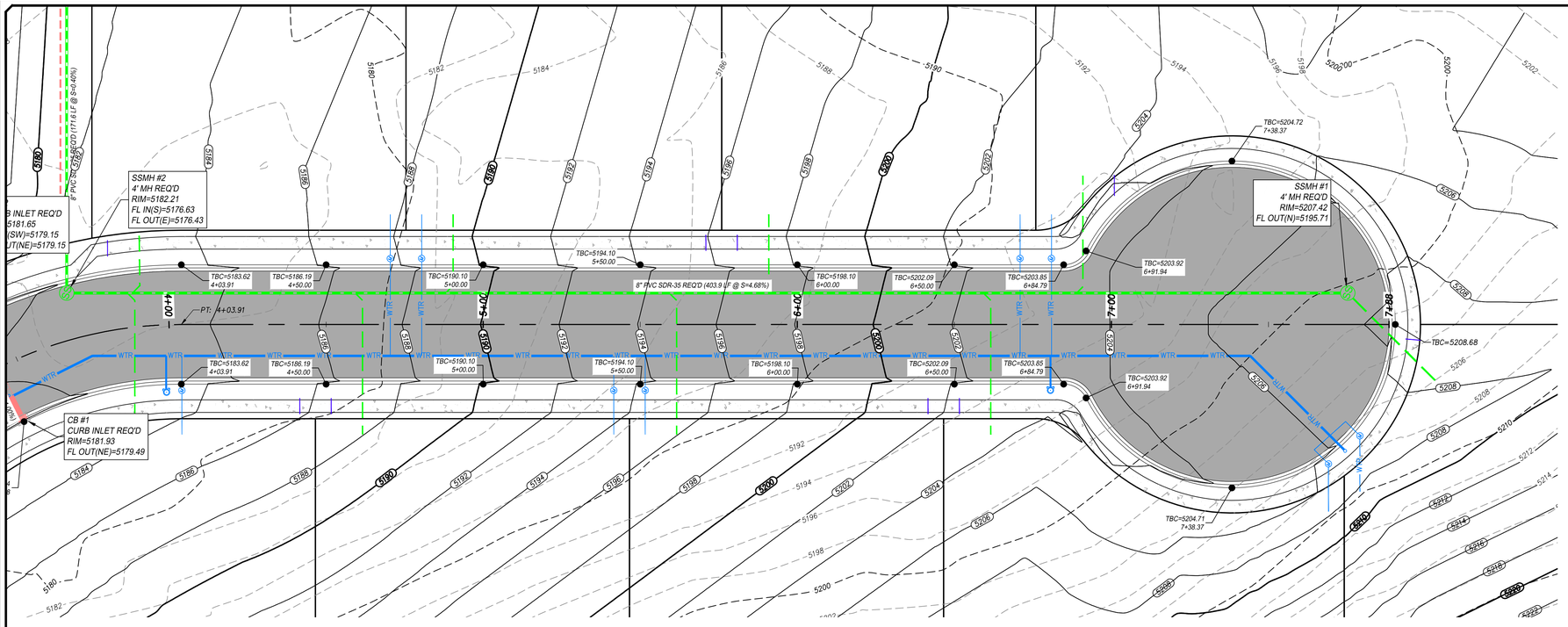
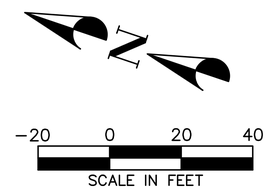
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C5.2





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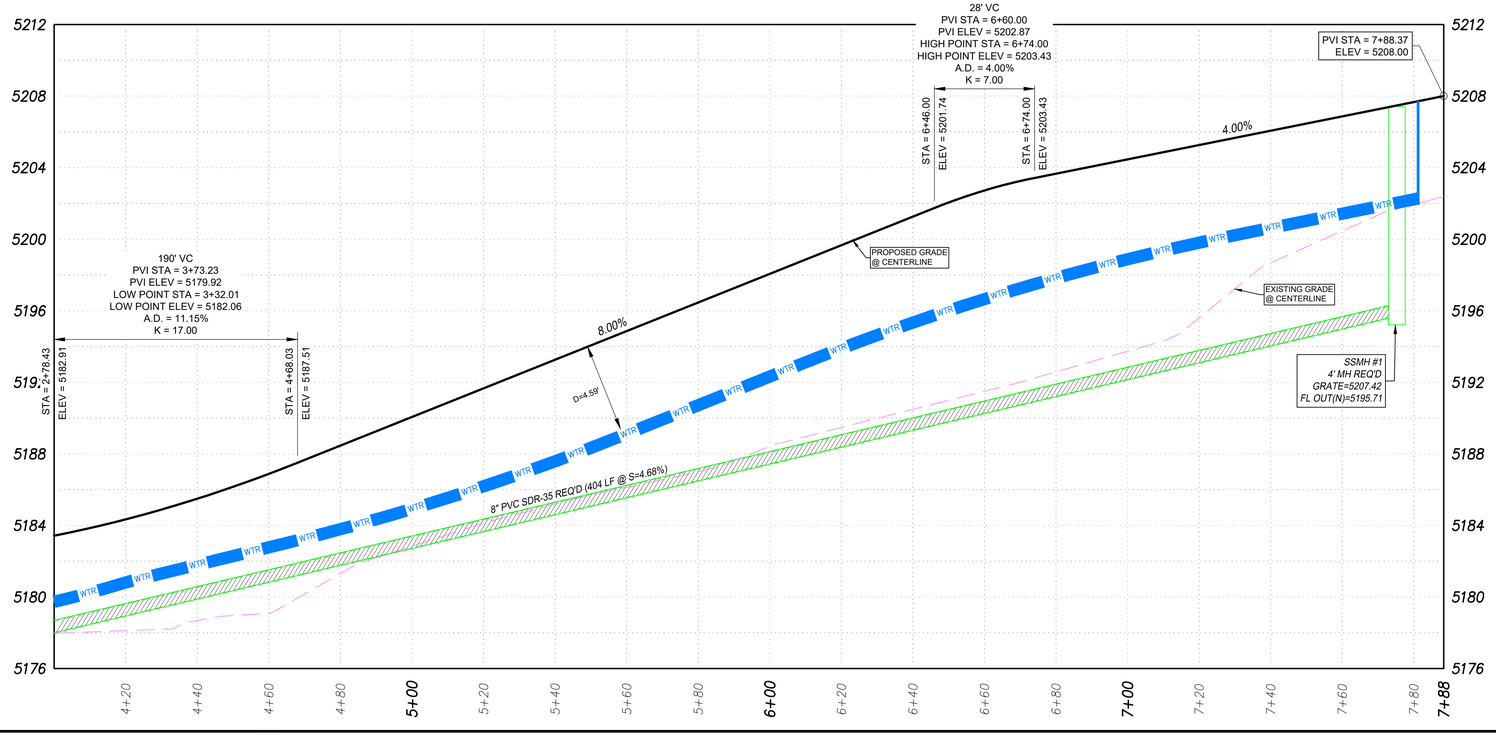

BENCHMARK
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ROAD PLAN & PROFILE
STA = 4+00 ~7+88

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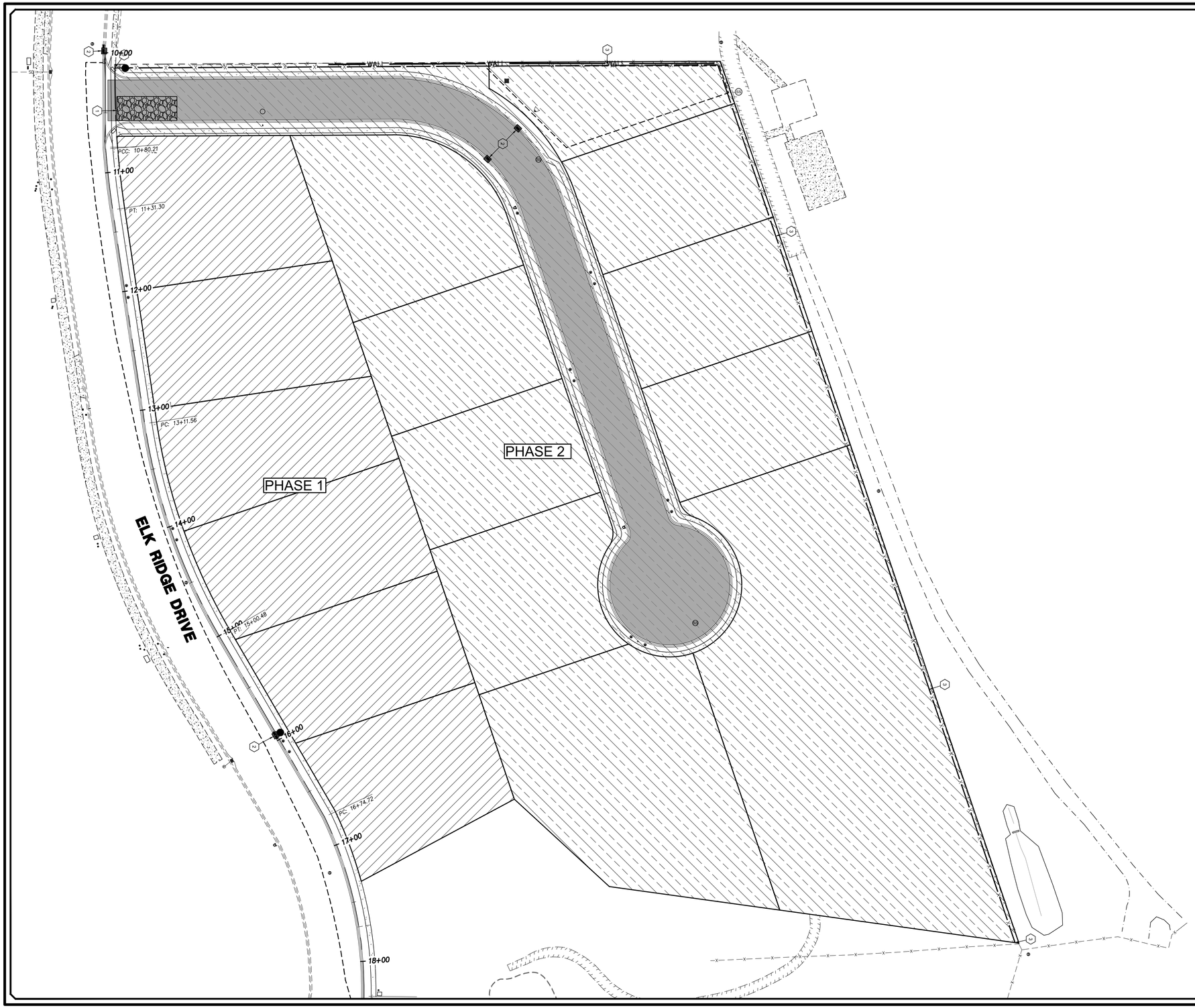

N

−40 0 40 80

SCALE IN FEET

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NOTES

1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR THE INSTALLATION OF STORM WATER POLLUTION PREVENTION SYSTEMS. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL U.P.D.E.S. PERMIT REQUIREMENTS AND TO ADJUST THE PLAN AS NECESSARY TO MEET SITE SURFACE WATER PROTECTION OBJECTIVES.
2. AT ALL TIME DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ONSITE EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL FACILITIES SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM SITE TRAFFIC. IN ADDITION TO REGULAR CONTRACTOR INSPECTIONS, STREETS SHALL BE SWEPT UPON CITY AND OWNER REQUEST.
4. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED AT COMPLETION OF PROJECT.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY OR COUNTY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
6. CONTRACTOR SHALL BE RESPONSIBLE OF ALL SWPPP SYSTEMS. CITY INSPECTOR MUST APPROVE THE REMOVAL OF ALL SWPPP DEVICES.
7. CONTRACTOR MAY REMOVE TEMPORARY INLET PROTECTION DEVICES AND SILT FENCING AFTER PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
8. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION (70% MIN.). EROSION CONTROL STRUCTURES IN PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE, AND LANDSCAPE DRAINAGE ON TO PAVEMENT IS COMPLETE.
9. THE SWPPP BOOK AND UPDES PERMIT WILL BE PROVIDED BY THE CONTRACTOR PRIOR TO WORK.

KEYNOTE LEGEND

1. VEHICLE TRACKING PAD REQ'D
2. INLET PROTECTION REQ'D
3. SILT FENCE REQ'D

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

Blue Stakes of UTAH 811
Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE :	1/21
SURVEY BY :	PEPG
DRAWN BY :	RTD
DESIGNED BY :	RTD
CHECKED BY :	RLK
SCALE :	1"=40'

PEPG CONSULTING L.L.C.
9270 SOUTH 300 WEST • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551
CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

LIGHTHOUSE HEIGHTS SUBDIVISION

EROSION CONTROL PLAN

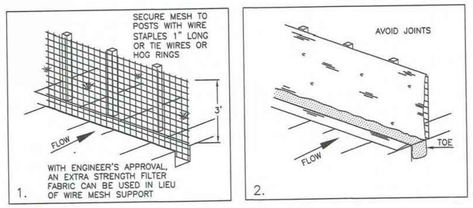
APRIL 30, 2021 — LAST REVISED
6898.2010 — PROJECT NUMBER
DWG\06-EROS-01 — DRAWING FILE

ELK RIDGE
CITY

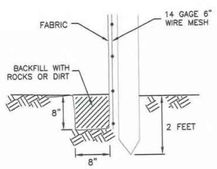
REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C6.0

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



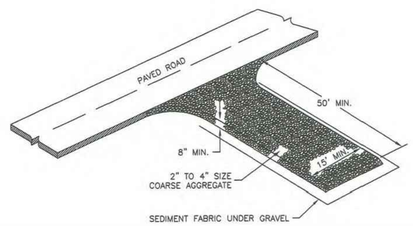
INSTALLATION SEQUENCE



TOE DETAIL

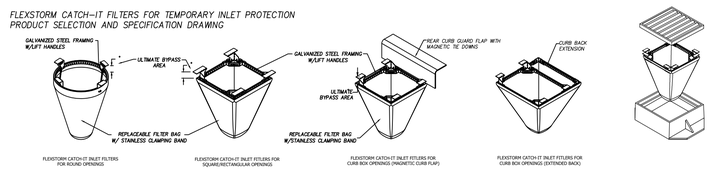
DETAIL-A
SILT FENCE
(SEE APWA PLAN NO. 122)

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



DETAIL-B
STABILIZED ROADWAY ENTRANCE
(SEE APWA PLAN NO. 126)

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)

Standard	Inlet Type	Grate Size	Opening Size	Bag Cap. (ft^3)	Flow Ratings (CFS)		ADS P/N
					FX	Bypass	
12" x 12" precast catch basin	Concrete Box (HD)	15 x 15	**12 x 12**	0.9	1.0	2.6	62SQ12FX
18" x 18" precast catch basin	Concrete Box (HD)	21 x 18	**18 x 18**	2.1	1.5	3.9	62SQ18FX
24" x 24" precast catch basin	Concrete Box (HD)	27 x 24	**24 x 24**	3.4	1.9	5.0	62SQ24FX
35.5x18 Curb Box	Curb Inlet (CB)	35.5x18	**33x15.5**	3.4	2.0	4.6	62UTCBEXTFX
36" x 24" precast catch basin	Concrete Box (HD)	40 x 24	**36 x 24**	5.6	2.5	6.5	62SQ3624FX
36" X 24" Combination inlet	Concrete Box (HD)	40 x 24	**36 x 32**	4.5	2.3	5.9	62SQCB3X24FX
48 x 18 drop inlet	Frame and Grate (SQ)	48x18	**44x18**	4.7	2.6	5.5	62SQ4818FX
36" X 36" precast catch basin	Concrete Box (HD)	40 x 36	**36 x 36**	7.6	4.4	10.0	62SQ36FX
48" X 48" precast catch basin	Concrete Box (HD)	52 x 48	**48 x 48**	13.8	5.4	12.0	62SQ48FX

**FLOW RATINGS SHOWN ARE 50% MAXIMUM*

NOTES

1. *ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.*
2. *TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCUTRES MAY REQUIRE ADDITIONAL REVIEW.*
3. *UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.*
4. *FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM*

INSTALLATION:

1. *REMOVE GRATE*
2. *DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE*
3. *REPLACE GRATE*

DETAIL-C
INLET DROP PROTECTION
(NOT TO SCALE)

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE : 1/21
SURVEY BY : PEPG
DRAWN BY : RTD
DESIGNED BY : RTD
CHECKED BY : RLK
SCALE : #####

PEPG CONSULTING L.L.C.
9270 SOUTH 300 WEST • SANDY, UT 84070
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CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

LIGHTHOUSE HEIGHTS
SUBDIVISION
EROSION CONTROL DETAILS

APRIL 30, 2021 — LAST REVISED
6898.2010 — PROJECT NUMBER
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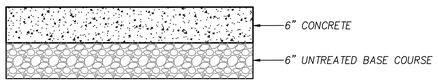
ELK RIDGE
CITY

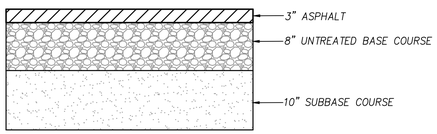
REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

Blue Stakes of UTAH 811
Bluestakes.org

SHEET NO. **C6.1**

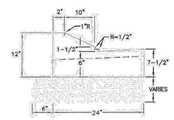


CONCRETE SIDEWALK

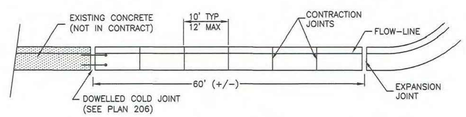


ASPHALT SECTION

DETAIL-1
PAVEMENT SECTIONS
(NOT TO SCALE)

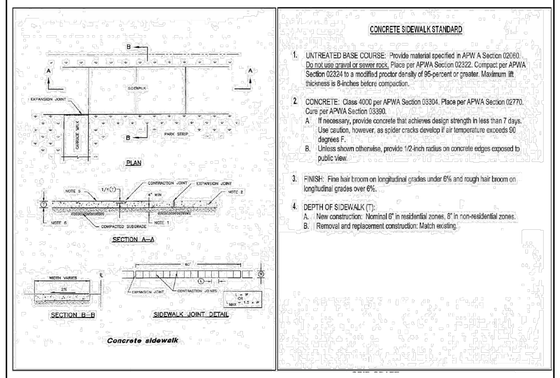


TYPE D MODIFIED CURB
–NTS–



JOINT DETAIL

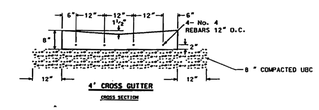
DETAIL-2
TYPE-D MODIFIED CURB
(NOT TO SCALE)



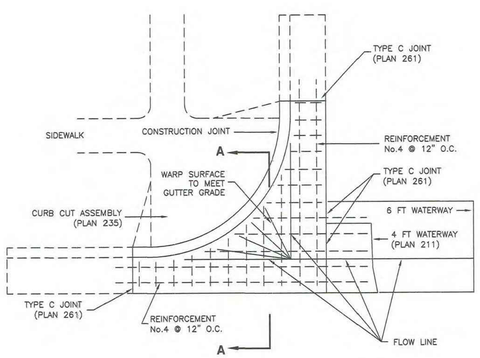
CONCRETE SIDEWALK STANDARD

1. UNTREATED BASE COURSE: Provide material specified in APW A Section 02060. Do not use gravel or sewer rock. Place per APWA Section 02322. Compact per APWA Section 02224 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
2. CONCRETE: Class 4000 per APWA Section 03304. Place per APWA Section 02770. Cure per APWA Section 03390.
   A. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution, however, as spider cracks develop if air temperature exceeds 90 degrees F.
   B. Unless shown otherwise, provide 1/2-inch radius on concrete edges exposed to public view.
3. FINISH: Fine hair broom on longitudinal grades under 6% and rough hair broom on longitudinal grades over 6%.
4. DEPTH OF SIDEWALK (T):
   A. New construction: Nominal 6" in residential zones, 8" in non-residential zones.
   B. Removal and replacement construction: Match existing.

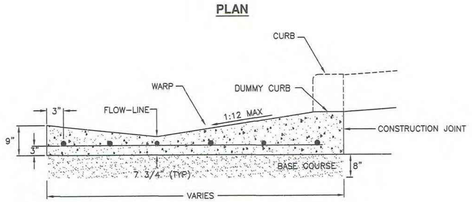
DETAIL-3
CONCRETE SIDEWALK STANDARD
(NOT TO SCALE)



DETAIL-4
4' WATERWAY
(NOT TO SCALE)

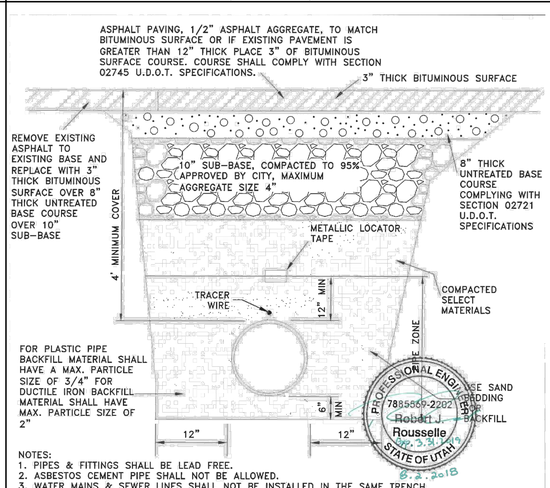


PLAN



SECTION A-A

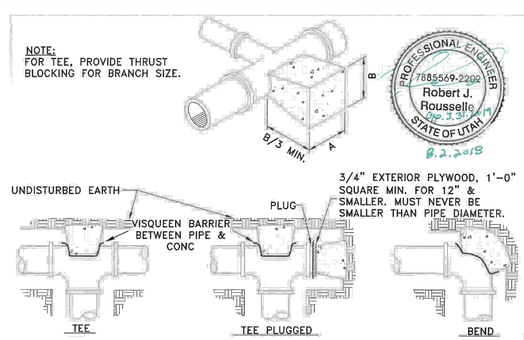
DETAIL-5
WATERWAY TRANSITION STRUCTURE
(SEE APWA PLAN NO. 213)



NOTES:
1. PIPES & FITTINGS SHALL BE LEAD FREE.
2. ASBESTOS CEMENT PIPE SHALL NOT BE ALLOWED.
3. WATER MAINS & SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH.
4. ALL PIPES, FITTINGS & APPURTENANCES SHALL BE NSF-61 CERTIFIED AND CONFORM TO AWWA STANDARDS C104-A21.4 THROUGH C550, LATEST EDITIONS AND C900 THROUGH C905, LATEST EDITIONS. [UAC R309-550-6 (3)]
5. ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.
6. MATERIAL THICKNESS MAY CHANGE AS DIRECTED BY THE CITY ENGINEER BASED UPON FINDINGS AND RECOMMENDATIONS IN GEOTECHNICAL REPORT.
7. FOR WATER METERS NOT CONNECTED TO FIRE HYDRANTS, THE MINIMUM LINE SIZE SHALL BE 4" IN DIAMETER, UNLESS THEY SERVE PICNIC SITES, PARKS, SEMI-DEVELOPED CAMPS, PRIMITIVE CAMPS, OR ROADWAY REST-STOPS. MINIMUM WATER MAIN SIZE SERVICING A FIRE HYDRANT LATERAL SHALL BE 8 INCHES IN DIAMETER UNLESS A HYDRAULIC ANALYSIS INDICATES THAT REQUIRED FLOW AND PRESSURES CAN BE MAINTAINED BY 6" LINES. [UAC R309-550-5(4)].
8. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C600 (LATEST EDITION).
9. UNDER NO CIRCUMSTANCES SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH.
10. CONSIDERATION SHALL BE GIVEN TO THE MATERIALS TO BE USED WHEN CORROSIVE SOILS OR WATERS WILL BE ENCOUNTERED. [UAC R309-550-5 (9)]

LOCATED IN SURFACED ROAD

DETAIL-6
UTILITY TRENCH FOR WATER MAIN
(SEE ELK RIDGE CITY STANDARDS AND SPECS)

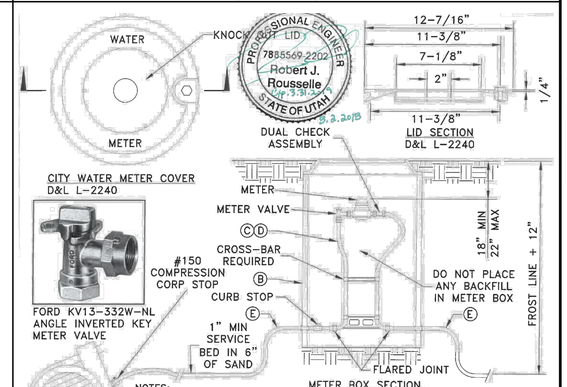


DIMENSIONS FOR THRUST BLOCKING									
FITTING	TEES & PLUGS		90° BENDS		45° BENDS & "Y"S		22 1/2° BENDS		
SIZES	A	B	A	B	A	B	A	B	
4"	1'-6"	1'-6"	1'-6"	1'-9"	1'-3"	0'-6"	1'-0"	0'-6"	
6"	2'-0"	1'-0"	2'-0"	2'-0"	1'-3"	1'-6"	1'-0"	1'-5"	
8"	2'-0"	1'-6"	2'-3"	2'-3"	1'-8"	1'-8"	1'-0"	1'-3"	
10"	2'-6"	2'-3"	2'-9"	2'-10"	2'-3"	1'-10"	1'-3"	2'-0"	
12"	3'-0"	2'-9"	3'-6"	3'-3"	2'-6"	2'-4"	2'-0"	1'-6"	
14"	3'-5"	3'-0"	4'-0"	3'-8"	3'-6"	2'-4"	2'-0"	2'-3"	
16"	4'-0"	3'-6"	5'-0"	4'-0"	3'-6"	3'-0"	2'-6"	2'-3"	
18"	4'-0"	4'-3"	6'-0"	4'-0"	4'-0"	3'-3"	2'-9"	2'-6"	
20"	5'-0"	4'-3"	6'-0"	5'-0"	4'-3"	4'-0"	3'-0"	2'-9"	
24"	6'-0"	5'-3"	8'-0"	5'-6"	6'-0"	4'-0"	4'-0"	3'-0"	

NOTES:

1. THIS TABLE IS BASED ON 200 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL BEARING PRESSURE. ADJUST BEARING AREAS IN ACCORDANCE WITH SOIL CONDITIONS AND PRESSURES ENCOUNTERED.
2. USE POLYETHYLENE ENCASEMENT BETWEEN CONCRETE AND PIPE.
3. REFER TO CONCRETE STANDARD SPECIFICATIONS.
4. THE "THRUST BLOCKING DETAILS" IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN SO WARRANTED OR REQUIRED BY THE ENGINEER.
5. THRUST BLOCKS NEED TO BE INSPECTED BY CITY PRIOR TO BACKFILL.

DETAIL-7
THRUST BLOCK
(SEE ELK RIDGE CITY STANDARDS AND SPECS)



NOTES:
1– PIPES AND FITTINGS SHALL BE "LEAD FREE" AND NSF 61 CERTIFIED AND CONFORM TO AWWA STANDARDS C104–A21.4 THROUGH C550, LATEST EDITIONS AND C900 THROUGH C905, LATEST EDITIONS. [UAC R309–550–6 (3)].
2– INSTALL TRACER WIRE FROM MAIN CONNECTION THROUGH METER PIT WITH 30 FEET EXCESS TO EXTEND TO DWELLING.
3– SERVICE CONNECTIONS AND METER ASSEMBLIES LARGER THAN 1–INCH NEED TO COMPLY WITH THE LATEST APWA STANDARD DETAILS.
4– INSTALL SERVICE LATERALS AND METERS WITHIN 5 FEET OF LOT LINES ONE ON EACH SIDE OF COMMON LOT LINE (ALTERNATE WITH SECONDARY WATER). INSTALL METER BOX OUTSIDE OF DRIVEWAY.
5– STAMP GUTTER LIP AND TOP OF CURB WITH A "W" IN TWO PLACES, NEAR CURB LIP AND TOP OF CURB.

LEGEND

No	*	ITEM	DESCRIPTION
A		FRAME AND COVER	CAST IRON COVER (GRASS)
B		METER BOX (21" DIAMETER) (30" TO 36" DEEP)	WHITE CORRUGATED PE
C		1" METER YOKE	DUAL CHECK ASSEMBLY REQUIRED
D		1" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
E		1" SERVICE LINE	HDPE IPS SDR 9

DETAIL-8
SERVICE CONNECTION & METER ASSEMBLY
(SEE ELK RIDGE CITY STANDARDS AND SPECS)

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE :
SURVEY BY :
DRAWN BY :
DESIGNED BY :
CHECKED BY :
SCALE : 1"=1'

PEPG CONSULTING L.L.C.
9270 SOUTH 300 WEST • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551
CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

LIGHTHOUSE HEIGHTS SUBDIVISION

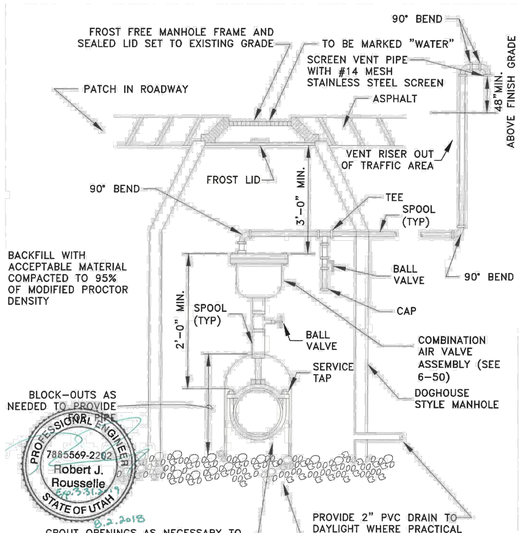
TYPICAL SECTIONS & DETAILS

APRIL 30, 2021 | LAST REVISED
6898.2010 | PROJECT NUMBER
DWG\07-DETAILS-01 | DRAWING FILE

ELK RIDGE
CITY

PROFESSIONAL ENGINEER No. 7544732 RYAN KITCHEN 4-30-21 STATE OF UTAH

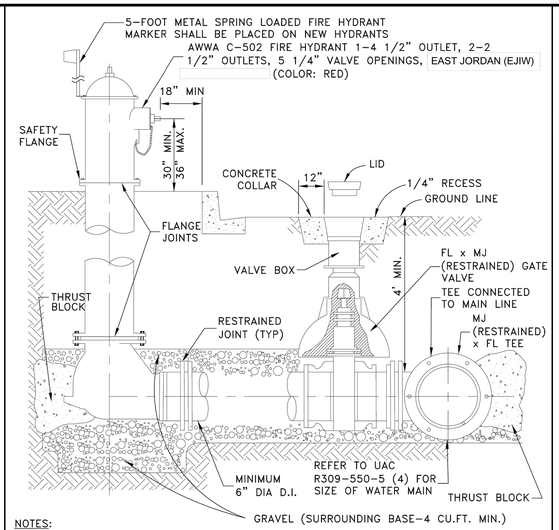
SHEET NO. **C7.0**



NOTE:

1- ALTERNATELY, THE OPEN END OF THE PIPE MAY BE EXTENDED TO AS LITTLE AS 1 FOOT ABOVE THE TOP OF THE PIPE IF THE VALVE CHAMBER IS NOT SUBJECT TO FLOODING, OR IF IT MEETS THE REQUIREMENTS OF UAC R309-550-6(7).

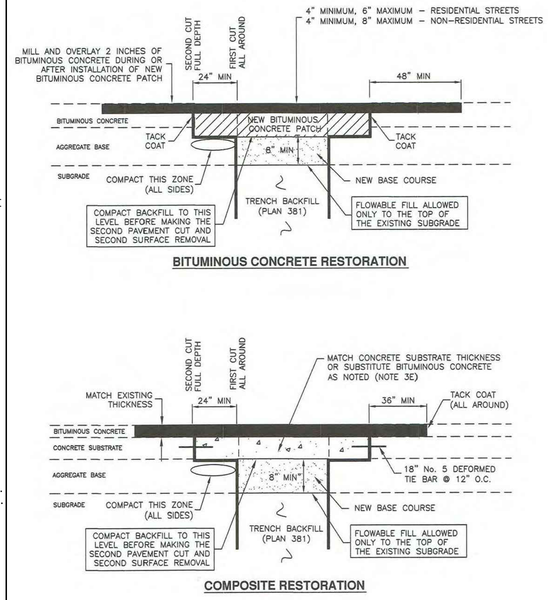
DETAIL-9
AIR RELEASE VALVE MANHOLE DETAIL
(SEE ELK RIDGE CITY STANDARDS AND SPECS)



NOTES:

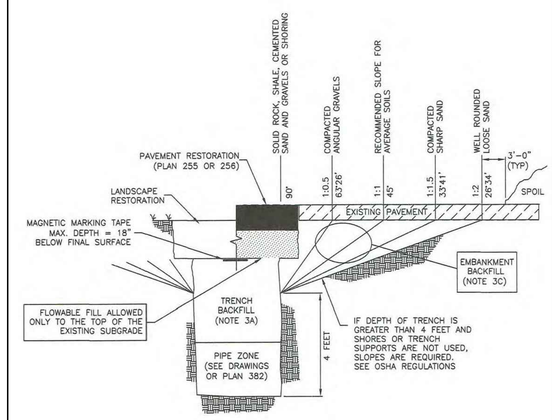
1. ALL FIRE HYDRANTS SHALL BE LOCATED AS SHOWN ON THE PLANS.
2. ALL FIRE HYDRANTS WILL STAND PLUMB WITH THE PUMPER NOZZLE FACING THE STREET.
3. THE VALVE WILL BE LOCATED AS APPROVED BY CITY. PIPE MATERIAL SHALL BE DUCTILE.
4. FOR DETAILED INFORMATION SEE SPECIFICATIONS.
5. RESTRAIN ALL JOINTS FROM MAIN TO FIRE HYDRANT.
6. CONCRETE VALVE COLLAR SHALL BE BROOM FINISHED IN RADIAL PATTERN.
7. ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.
8. PROVIDE 3-FOOT CLEAR SPACE AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS (IFC 507.5.5)
9. HYDRANT DRAINS SHALL NOT BE CONNECTED TO, OR LOCATED WITHIN, 10 FEET OF SANITARY SEWERS. WHERE POSSIBLE, HYDRANT DRAINS SHALL NOT BE LOCATED WITHIN 10 FEET OF STORM DRAINS. [UAC R309-550-6(5)(a)]

DETAIL-10
FIRE HYDRANT ASSEMBLY
(SEE ELK RIDGE CITY STANDARDS AND SPECS)

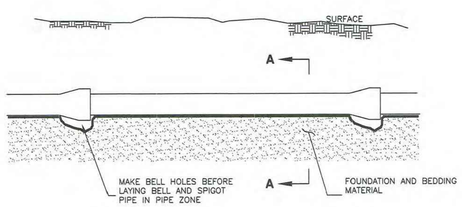


DETAIL-11
BITUMINOUS PAVEMENT T-PATCH
(SEE APWA PLAN NO. 255)

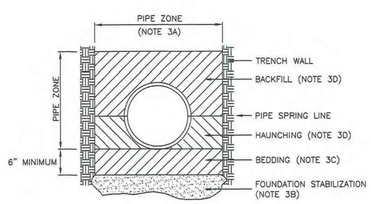
NARRATIVE: THIS PLAN SHOWS VARIOUS SLOPES RECOMMENDED FOR VARIOUS TYPES OF SLOPE STABILITY PROBLEMS. THE VERTICAL TEXT INDICATES VARIOUS MATERIALS THAT MAY BE ENCOUNTERED. THE SERVICES OF A PROFESSIONAL SOILS ENGINEER SHOULD BE USED TO VERIFY SLOPE STABILITY.



DETAIL-12
TRENCH BACKFILL
(SEE APWA PLAN NO. 381)



ELEVATION VIEW



SECTION A-A

INSTALLATION

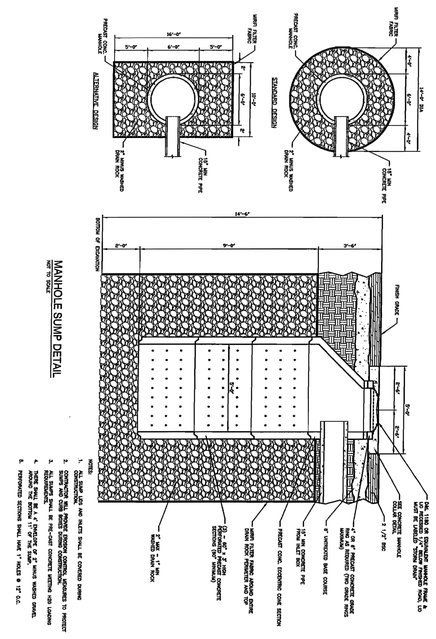
CONCRETE PIPE: FOLLOW ASTM C 1479
"STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS."

PLASTIC PIPE: FOLLOW ASTM D 2321
"STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS"

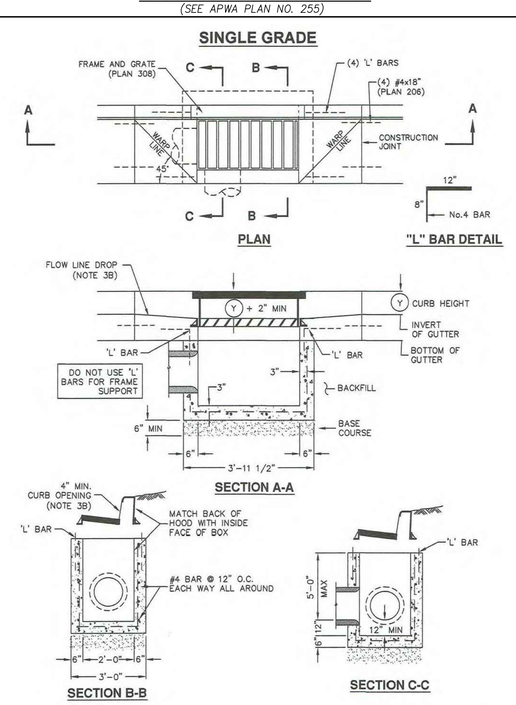
CORRUGATED METAL PIPE: FOLLOW ASTM A 798
"STANDARD PRACTICE FOR INSTALLING FACOTRY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.
"STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

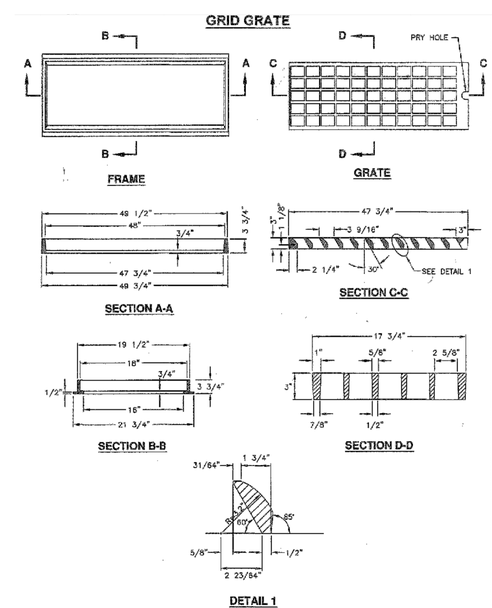
DETAIL-13
PIPE ZONE BACKFILL
(SEE APWA PLAN NO. 382)



DETAIL-14
MANHOLE SUMP
(SEE ELK RIDGE CITY STANDARDS DWG SD2)



DETAIL-15
CATCH BASIN
(SEE APWA PLAN NO. 315.1)



DETAIL-16
CATCH BASIN GRATE AND FRAME
(SEE APWA PLAN NO. 309.2)

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE :
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CHECKED BY :
SCALE : 1"=1'

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TYPICAL SECTIONS & DETAILS

DWG\07-DETAILS-01
DRAWING FILE

APRIL 30, 2021
LAST REVISED

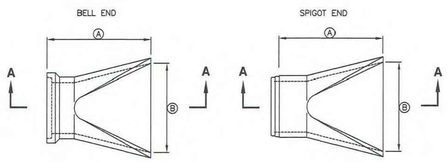
6898.2010
PROJECT NUMBER

ELK RIDGE
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
4-30-21
STATE OF UTAH

SHEET NO. C7.1

ROUND WITH FLARE



PLAN VIEW

PLAN VIEW

SECTION A-A

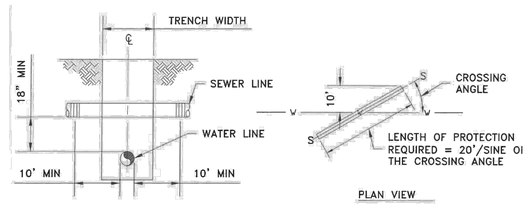
END VIEW

OBLIQUE

TABLE OF DIMENSION		
PIPE SIZE	DIMENSION Ⓐ	DIMENSION Ⓑ
18"	73"	36"
24"	73"	48"
30"	73"	60"
36"	97"	72"
42"	98"	78"
48"	98"	84"

NOTE:
MINIMUM DIMENSIONS ARE SHOWN. ACTUAL SIZES MAY BE SLIGHTLY LARGER

DETAIL-17
PIPE OUTFALL - FLARED OUTLET
(SEE APWA PLAN NO. 323.1)



CROSSING SANITARY SEWER

PLAN VIEW

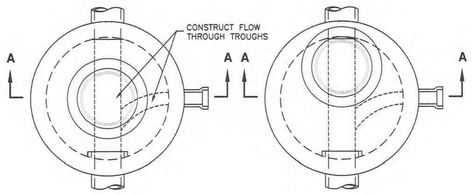
FOR NEW SANITARY SEWER LINE CONSTRUCTION
WHEN SANITARY SEWER LINE IS ABOVE THE WATER LINE, INSTALL SEWER LINE WITH ONE OF THE FOLLOWING; CAST IRON, DUCTILE IRON, GALVANIZED STEEL, OR PROTECTED STEEL PIPE WITH MECHANICAL JOINTS FOR THE MINIMUM DISTANCE OF 10 FEET ON EITHER SIDE OF WATER CROSSING. THE LINES SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING. (SEE NOTE #1)

PROFESSIONAL ENGINEER
7885569-2202
Robert J. Rousselle
Exp. 3-31-21
STATE OF UTAH
8.2.2018

GENERAL NOTES:

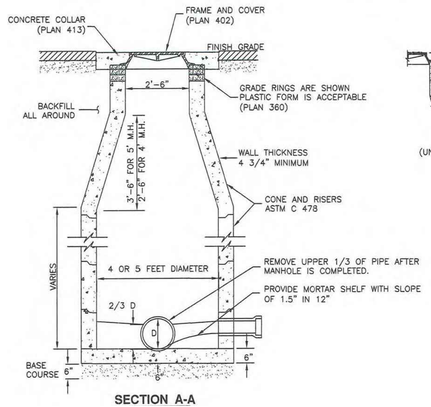
1– WATER AND SANITARY SEWER SEPARATIONS SHALL COMPLY WITH UAC R309-550-7.
2– IN ALL CASES, PROVIDE 18" MIN. OF VERTICAL SEPARATION BETWEEN WATER, SANITARY SEWER LINES. WHEN SEPARATION CAN NOT BE OBTAINED, AN EXCEPTION CAN BE APPLIED FOR WITH ADDITIONAL MEASURES TO PROTECT PUBLIC HEALTH, IN ACCORDANCE WITH UAC R309-105-6(2)(B).
3– IF WATER LINE IS 18" OR GREATER ABOVE THE SEWER LINE OR STORM DRAIN LINE, NO SPECIAL CONSTRUCTION IS REQUIRED.
4– ALL PROVISIONS ABOVE SHALL APPLY FOR CROSSINGS OTHER THAN 90° TO THE POINT AT WHICH THE 10' SEPARATION BETWEEN THE WATER AND SANITARY SEWER LINE IS ACHIEVED (10'/SINE OF CROSSING ANGLE).
5– FOR PURPOSES OF SEPARATIONS AND PROTECTION OF THE WATER SUPPLY, A RECLAIMED WATER LINE SHALL BE CONSIDERED A SANITARY SEWER LINE.
6– WHEN A SANITARY SEWER FORCE MAIN CROSSES UNDER AN EXISTING WATER MAIN, ALL PORTIONS OF THE SEWER FORCE MAIN WITHIN 10 FEET (HORIZONTALLY) OF THE WATER MAIN SHALL BE ENCLOSED IN A CONTINUOUS SLEEVE.
7– WHEN A NEW WATER MAIN CROSSES OVER AN EXISTING SEWER FORCE MAIN, THE WATER MAIN SHALL BE CONSTRUCTED OF PIPE MATERIALS WITH A MINIMUM RATED WORKING PRESSURE OF 200 PSI OR EQUIVALENT PRESSURE RATING.

DETAIL-18
SANITARY SEWER CROSSINGS
(SEE ELK RIDGE CITY STANDARDS AND SPECS)

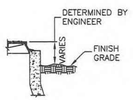


PLAN
(CONCENTRIC RISER)

PLAN
(ECCENTRIC RISER)



SECTION A-A



DETAIL
(UNIMPROVED AREAS)

DETAIL-19
SANITARY SEWER MANHOLE
(SEE APWA PLAN NO. 411)

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ELK RIDGE
CITY

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RYAN KITCHEN
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SHEET NO. **C7.2**