

CANON CITY RIVER IMPROVEMENTS REACH 2 DESIGN DRAWINGS

CANON CITY, COLORADO
JULY, 2017



S2O Design and Engineering

Scott Shipley, P.E.
318 McConnell Drive
Lyons CO, 80540,
USA
(303) 819-3985

Client:
CITY OF CANON CITY

Project Name:
CANON CITY RIVER IMPROVEMENTS
REACH TWO DESIGN

Status:
DESIGN DRAWINGS

Drawing Name:
COVER

Revisions:
-

Drawn By:
NATHAN WERNER, CHRISTINE CLARK

Checked By:
Scott Shipley

Date:
07/17/2017

Vertical Datum:
NADD 88

Stamp:

Scale:

Sheet:

WW-0.0

SHEET INDEX

		07/18/2017 - 60% DD	XXX - 90% DD	XXX - 95% DD	XXX - 100% DD
WW-0.0	COVER PAGE/ SHEET INDEX	<input checked="" type="checkbox"/>			
WW-0.1	EXISTING CONDITIONS SITE PLAN	<input checked="" type="checkbox"/>			
WW-0.2	DEMOLITION PLAN	<input checked="" type="checkbox"/>			
WW-0.3	PROPERTY OWNERSHIP & EASEMENTS PLAN	<input checked="" type="checkbox"/>			
WW-0.4	EROSION CONTROL PLAN	<input checked="" type="checkbox"/>			
WW-0.5	STAGING AND ACCESS PLAN	<input checked="" type="checkbox"/>			
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WW-5.0	EXISTING STRUCTURE MODIFICATION SITE PLAN	<input checked="" type="checkbox"/>			
WW-5.1	EXISTING STRUCTURE MODIFICATION GRADING PLAN	<input checked="" type="checkbox"/>			
WW-5.2	EXISTING STRUCTURE MODIFICATION CROSS SECTIONS	<input checked="" type="checkbox"/>			
WW-6.0	TYPICAL DETAILS (1)	<input checked="" type="checkbox"/>			
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WW-6.2	TYPICAL DETAILS (3)	<input checked="" type="checkbox"/>			
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WW-6.4	TYPICAL DETAILS (5)	<input checked="" type="checkbox"/>			
WW-6.5	TYPICAL DETAILS (6)	<input checked="" type="checkbox"/>			
WW-6.7	TYPICAL DETAILS (7)	<input checked="" type="checkbox"/>			
WW-7.0	TYPICAL DEWATERING DETAILS (1)	<input checked="" type="checkbox"/>			
WW-7.1	TYPICAL DEWATERING DETAILS (2)	<input checked="" type="checkbox"/>			
WW-8.0	TYPICAL BMP'S (1)	<input checked="" type="checkbox"/>			
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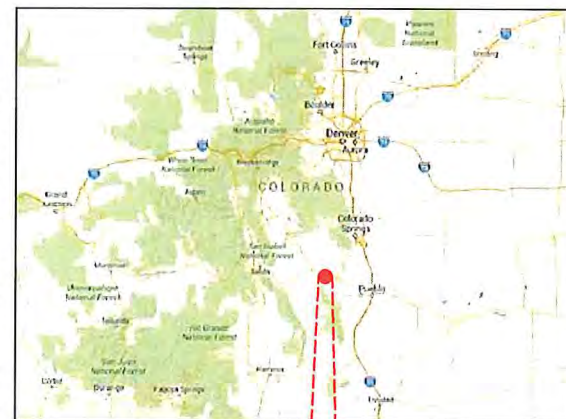
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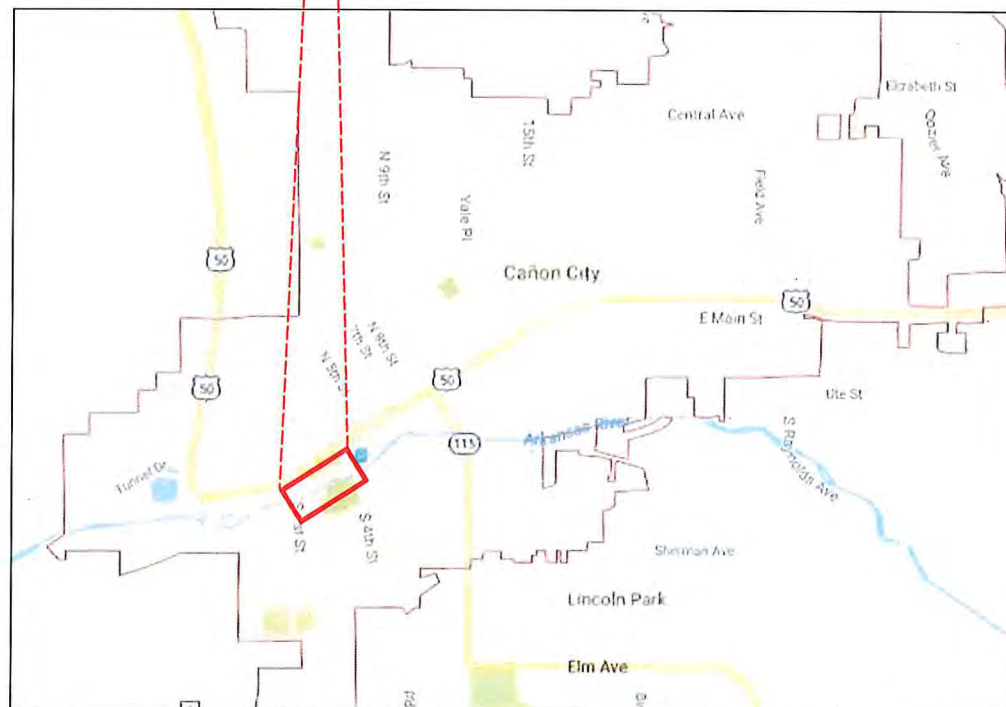
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DRAWING NUMBER
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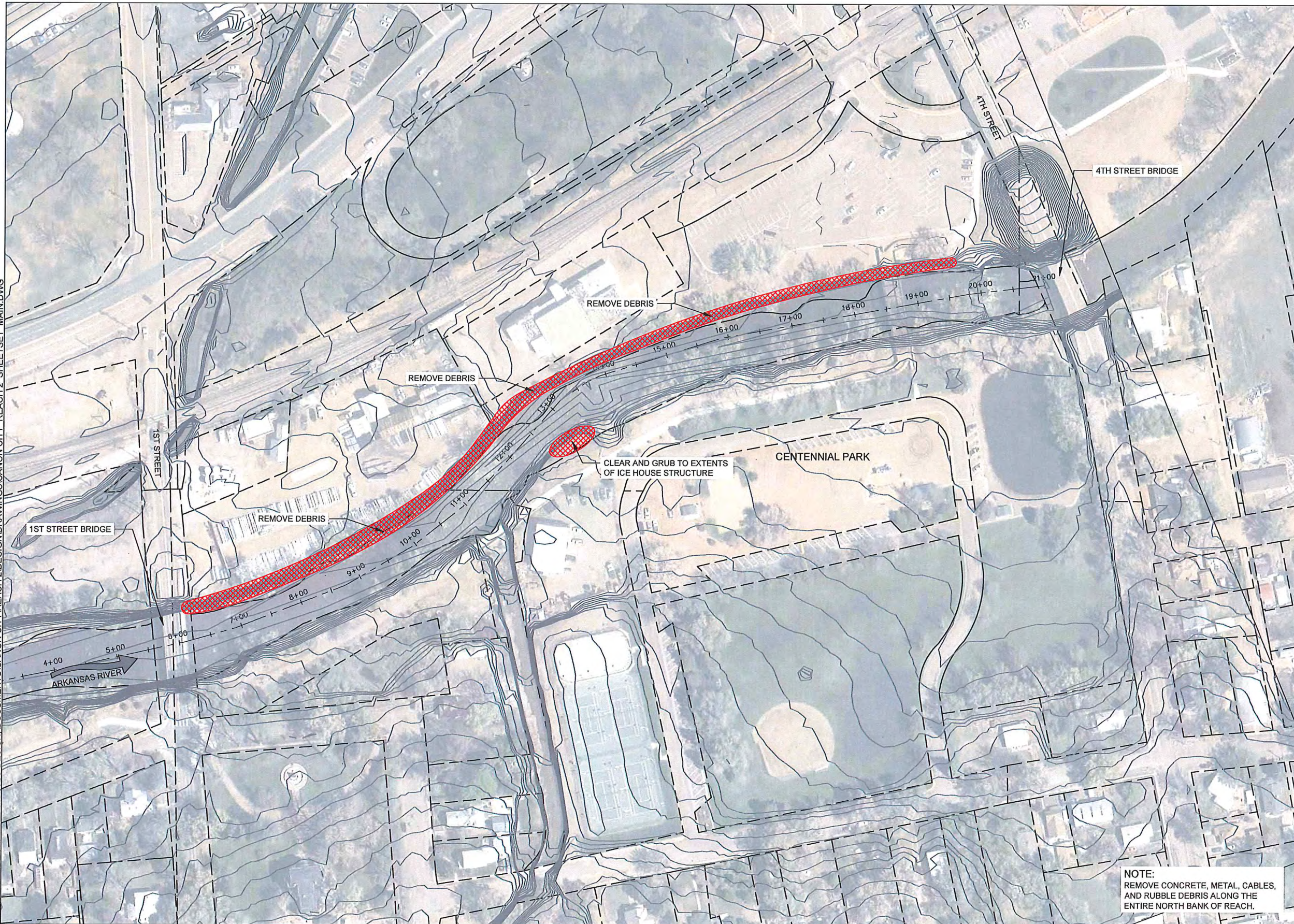


VICINITY MAP
NTS



LOCATION MAP
NTS

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S2O Design and Engineering

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Client:
CITY OF CANON CITY

Project Name:
CANON CITY RIVER IMPROVEMENTS
REACH TWO DESIGN

Status:
DESIGN DRAWINGS

Drawing Name:
DEMOLITION PLAN

Revisions:
-

Drawn By:
NATHAN WERNER, CHRISTINE CLARK

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07/17/2017

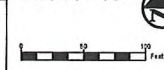
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DEMOLITION PLAN

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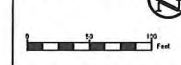
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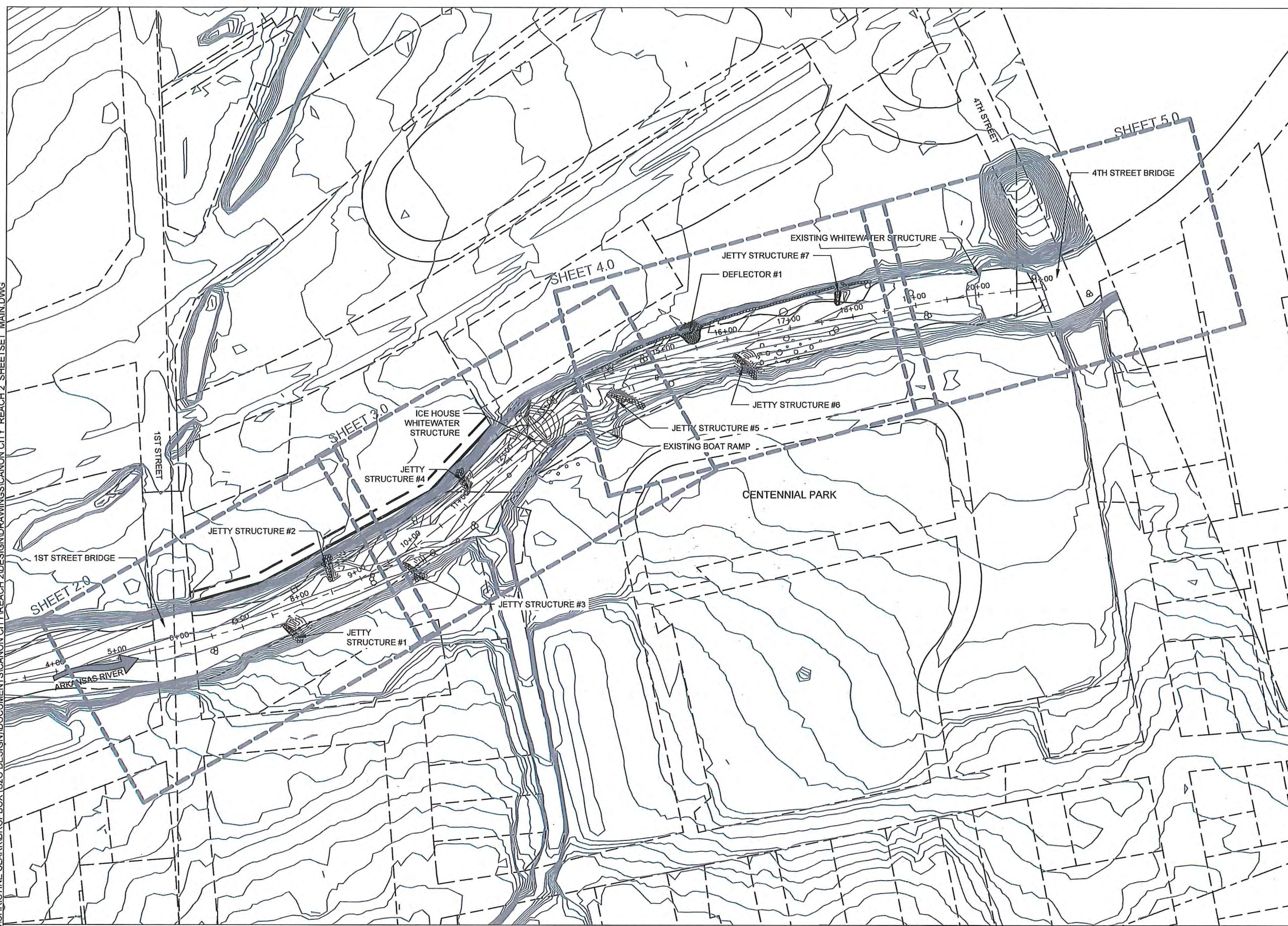
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PROPOSED SITE PLAN

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REACH TWO DESIGN

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Drawing Name:
1ST STREET SITE PLAN

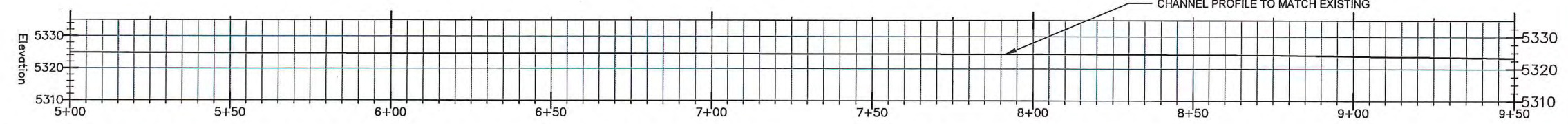
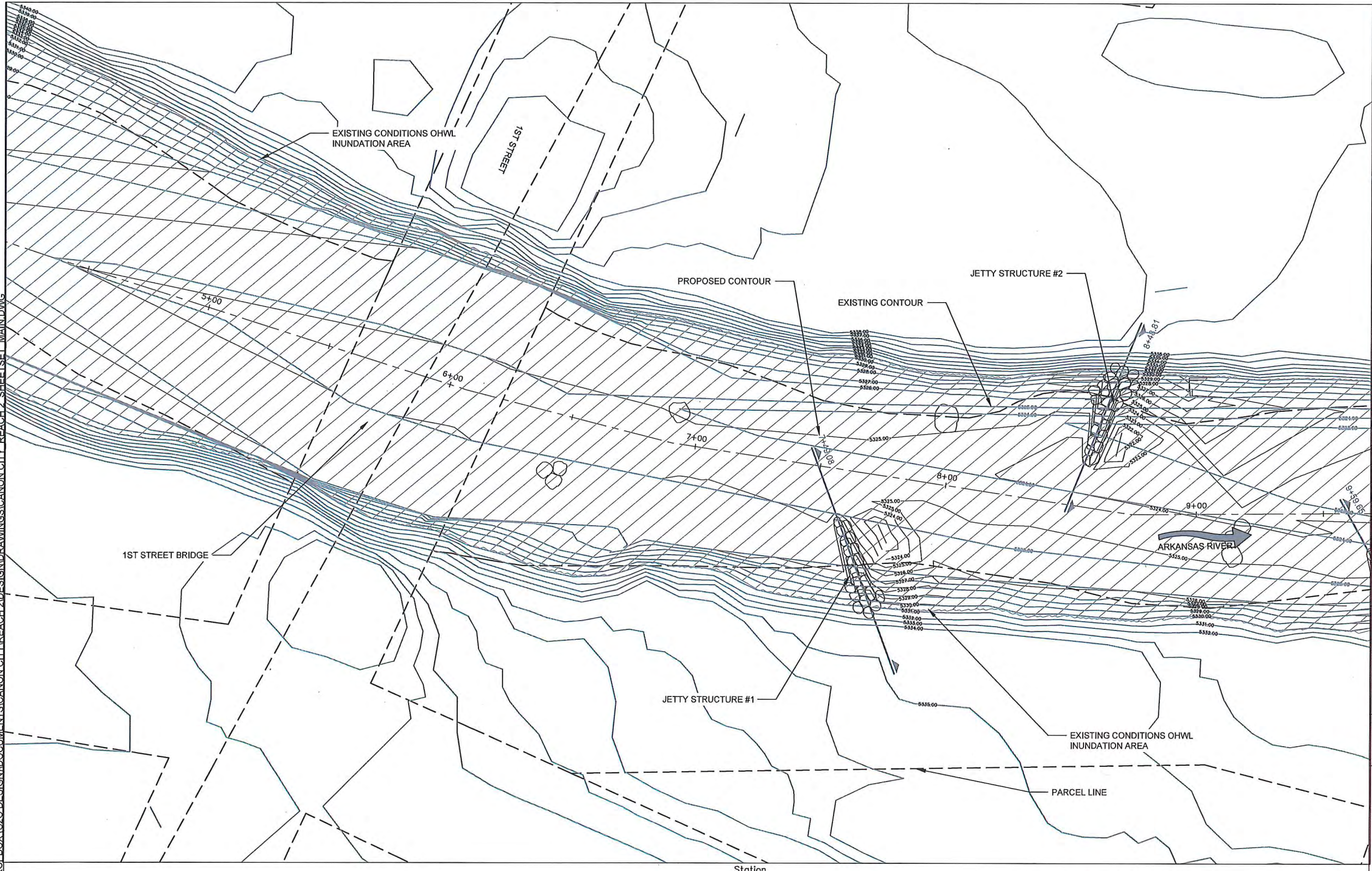
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1st STREET SITE PLAN

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REACH TWO DESIGN

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DESIGN DRAWINGS

Drawing Name:
ICE HOUSE STRUCTURE SITE PLAN

Revisions:
-

Drawn By:
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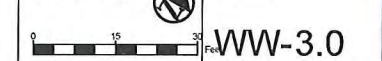
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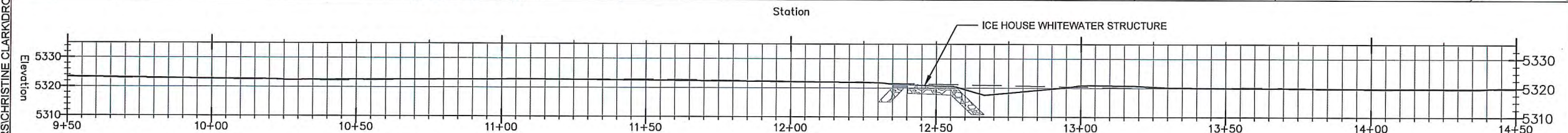
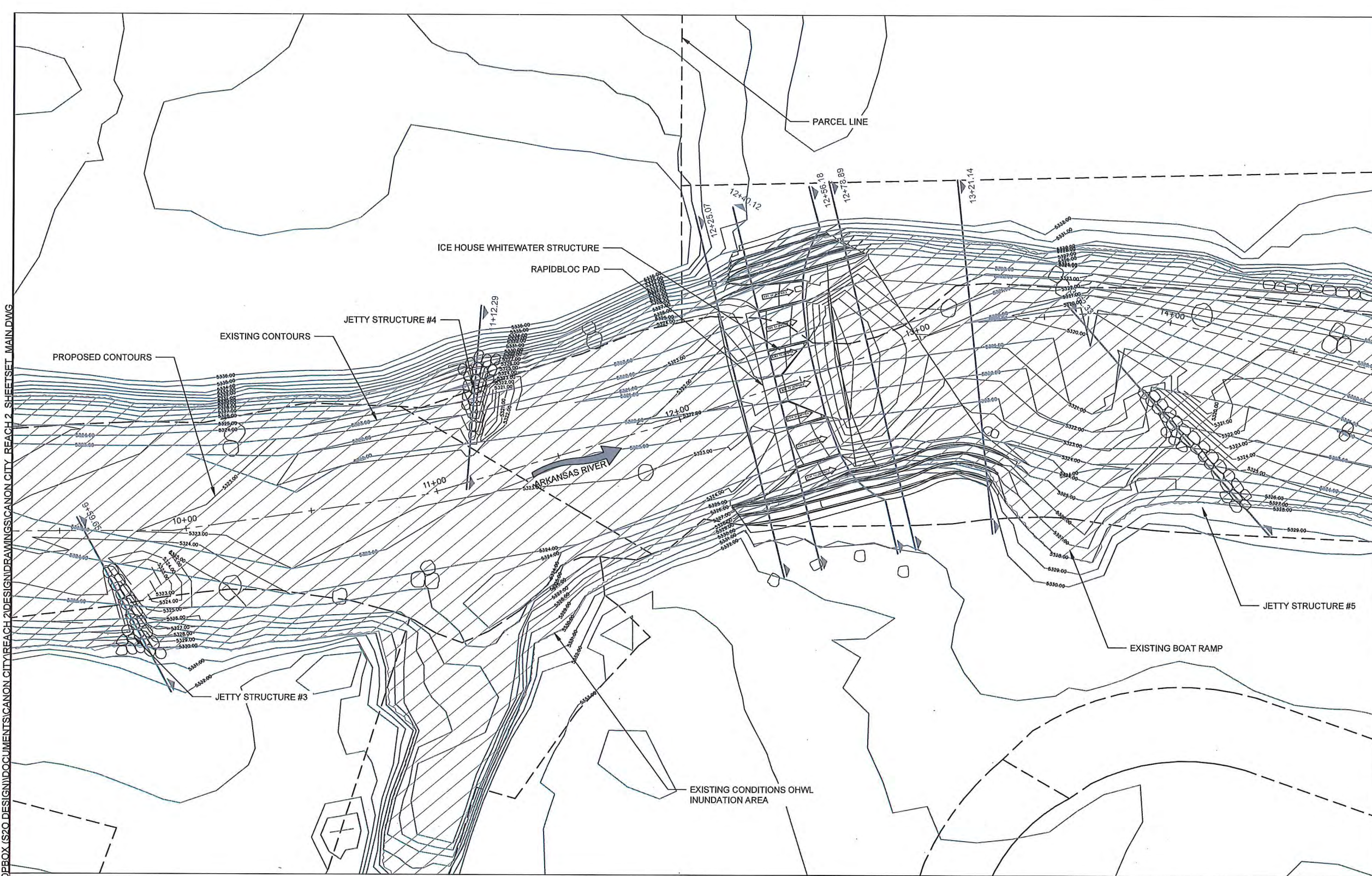
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ICE HOUSE STRUCTURE SITE PLAN

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Client:
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CANON CITY RIVER IMPROVEMENTS
REACH TWO DESIGN

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DESIGN DRAWINGS

Drawing Name:
ICE HOUSE STRUCTURE GRADING PLAN

Revisions:
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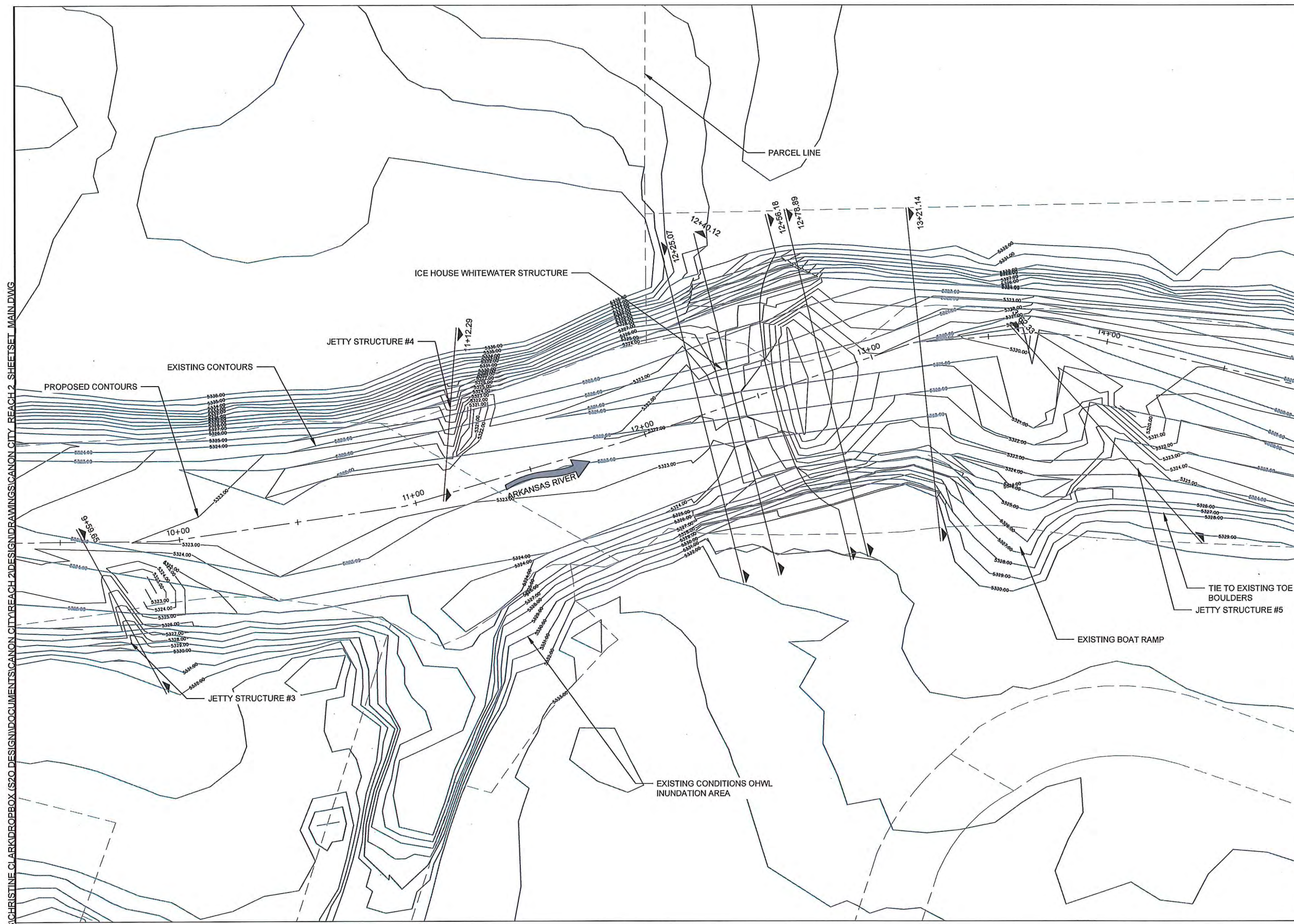
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ICE HOUSE STRUCTURE GRADING PLAN



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DESIGN DRAWINGS

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CENTENNIAL PARK SITE PLAN

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-

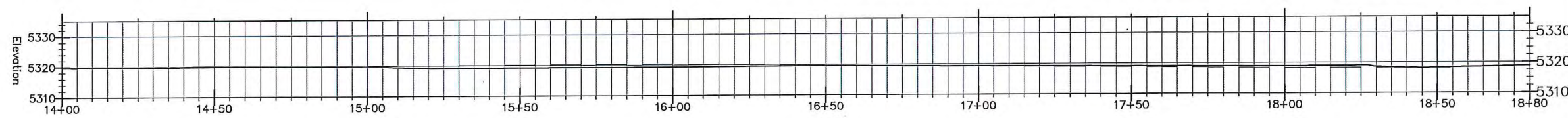
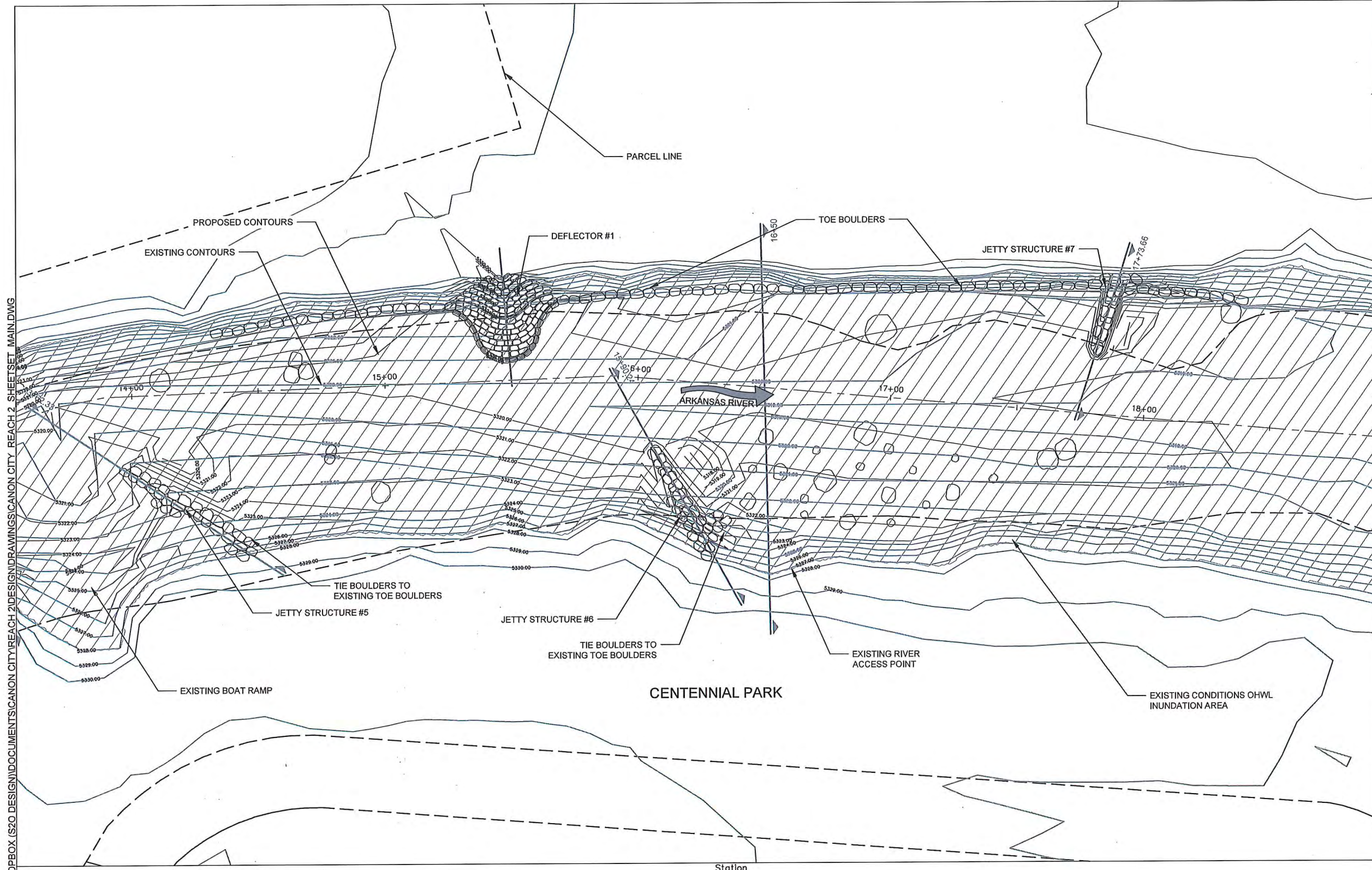
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CENTENNIAL PARK SITE PLAN

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EXISTING STRUCTURE MODIFICATION
SITE PLAN

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-

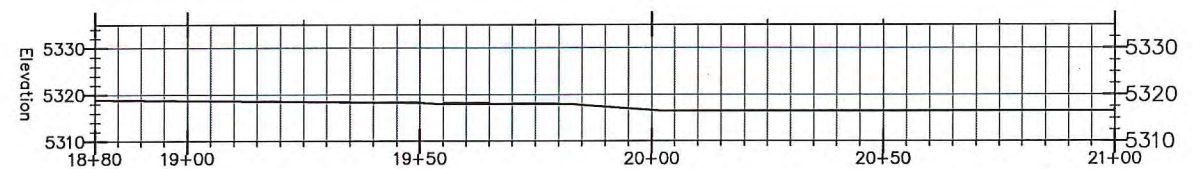
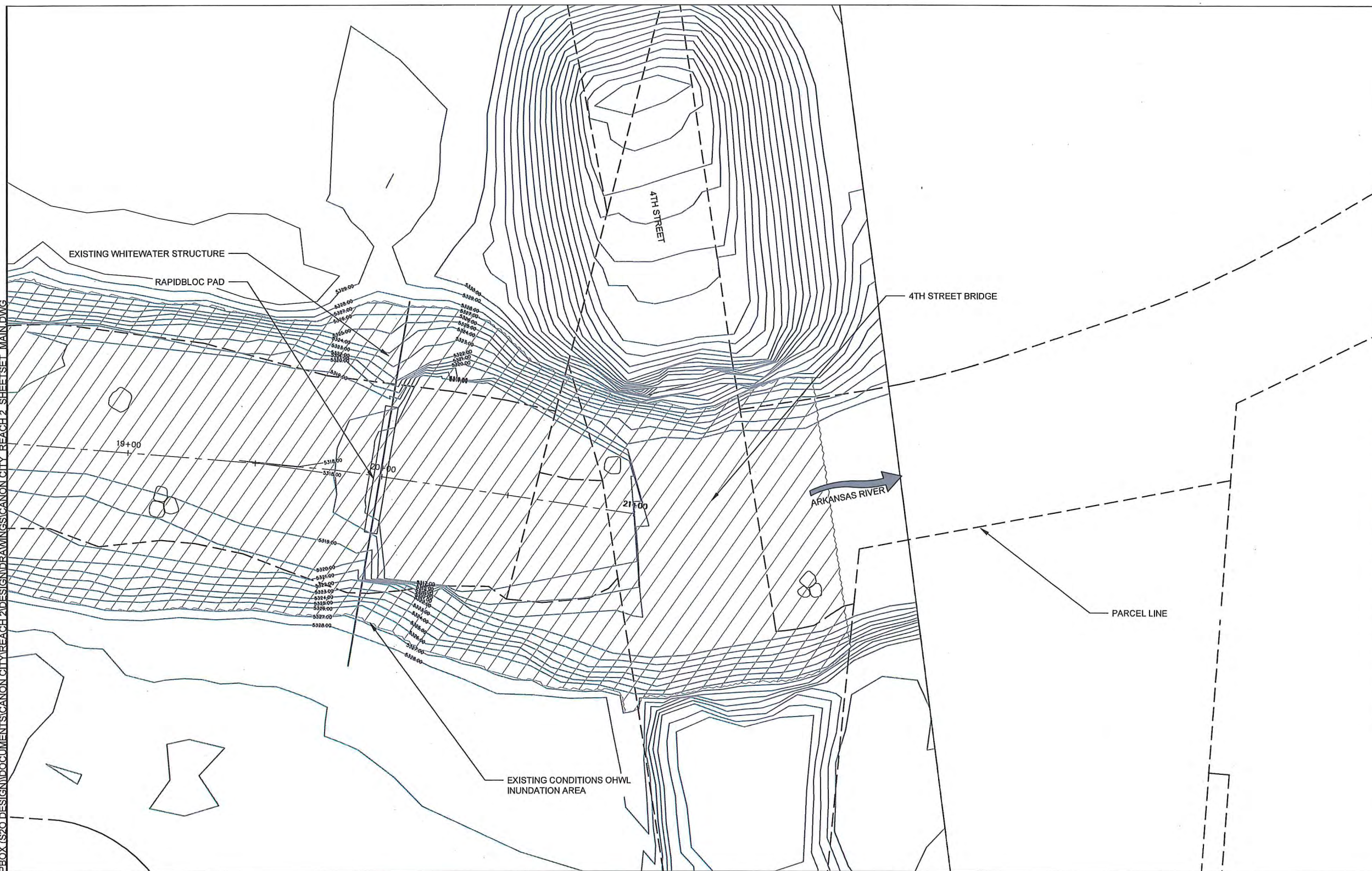
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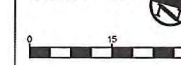
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EXISTING STRUCTURE MODIFICATION SITE PLAN

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Sheet:

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CANON CITY RIVER IMPROVEMENTS
REACH TWO DESIGN

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DESIGN DRAWINGS

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TYPICAL DETAILS (1)

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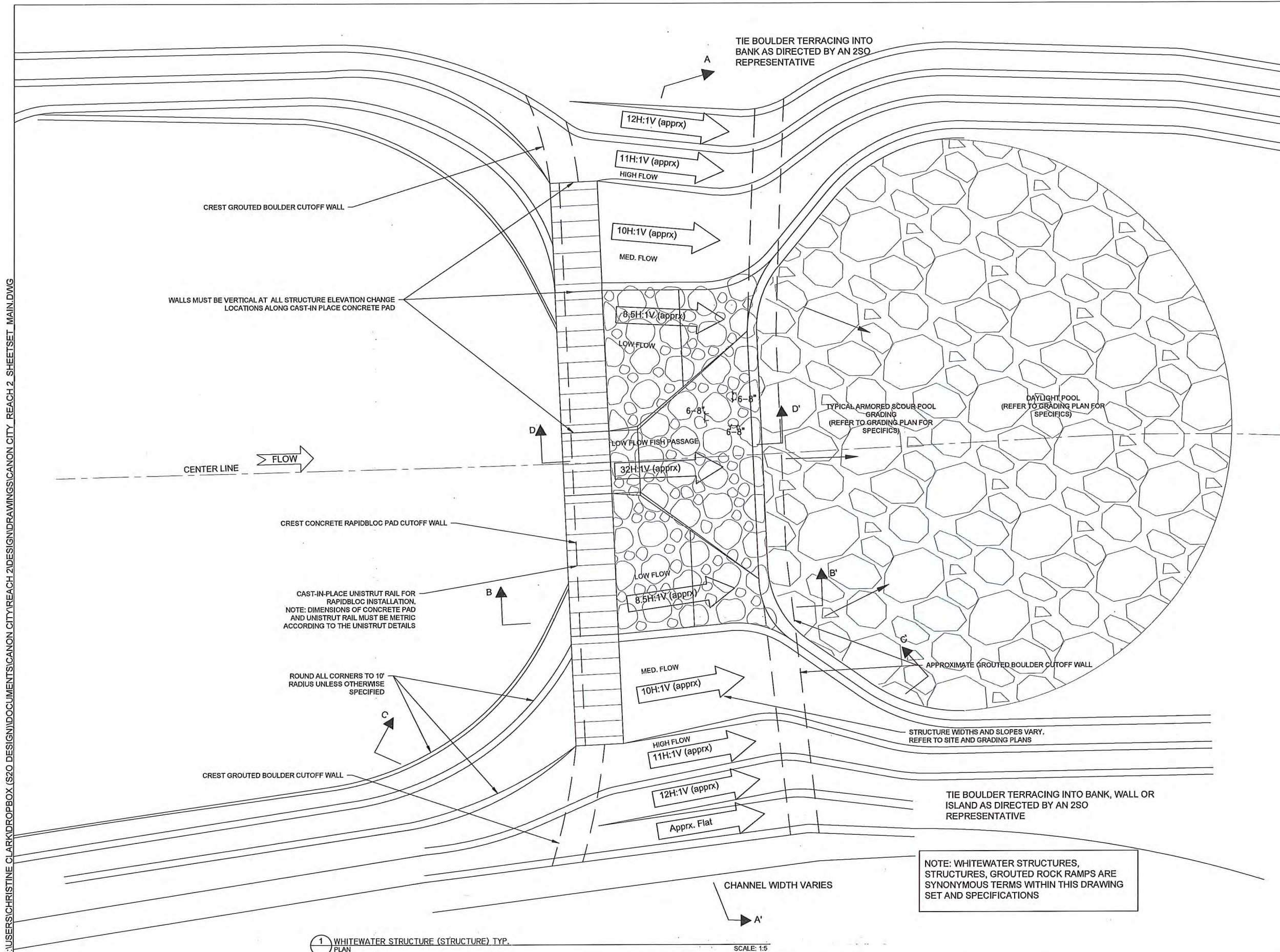
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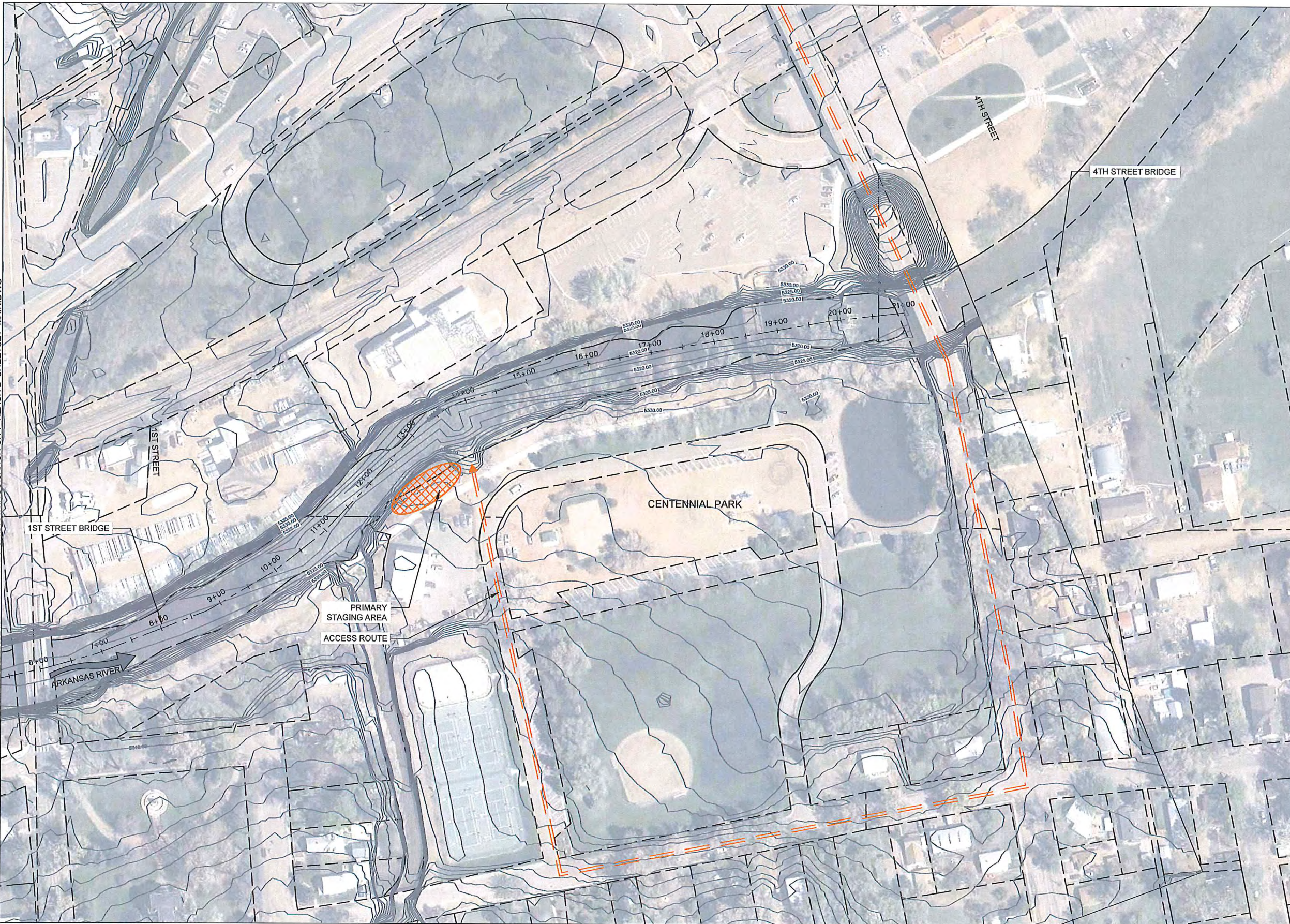


1 WHITewater STRUCTURE (STRUCTURE) TYP. PLAN

SCALE: 1:5

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Client:
 CITY OF CANON CITY

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 CANON CITY RIVER IMPROVEMENTS
 REACH TWO DESIGN

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 STAGING AND ACCESS PLAN

Revisions:
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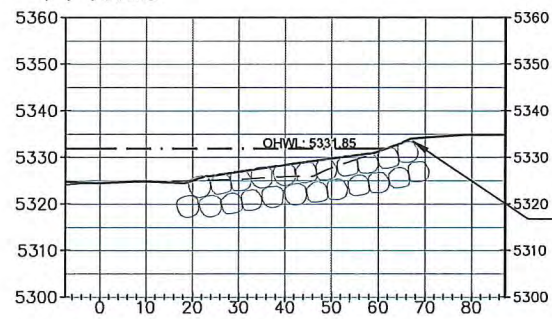
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STAGING AND ACCESS PLAN

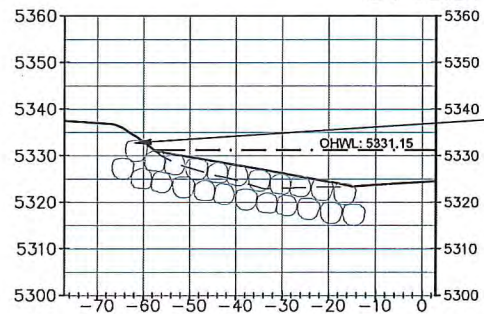
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JETTY STRUCTURE #1
7+49.08



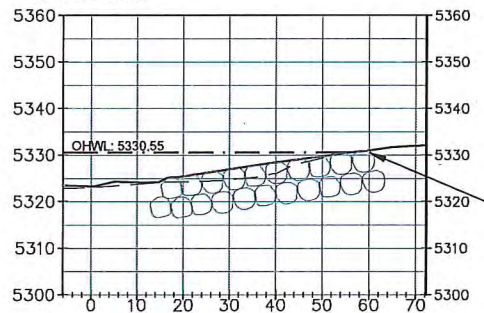
EXTEND JETTY INTO BANK AS DIRECTED BY S2O

JETTY STRUCTURE #2
8+48.81



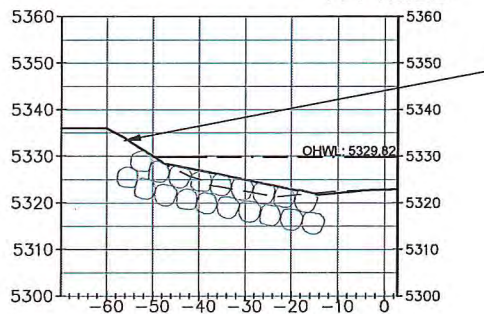
EXTEND JETTY INTO BANK AS DIRECTED BY S2O

JETTY STRUCTURE #3
9+59.65



EXTEND JETTY INTO BANK AS DIRECTED BY S2O

JETTY STRUCTURE #4
11+12.29



EXTEND JETTY INTO BANK AS DIRECTED BY S2O

KEY

- EXISTING GROUND
- PROPOSED GROUND
- OHWL



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1ST STREET CROSS SECTIONS

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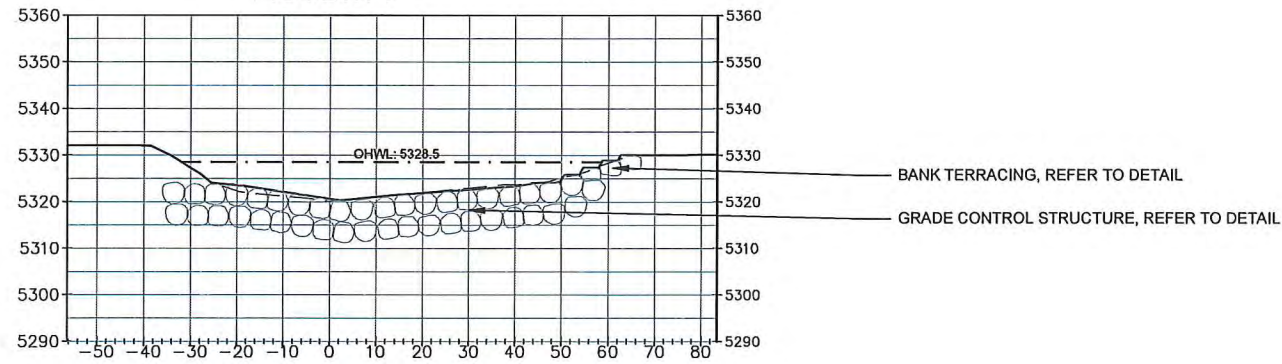
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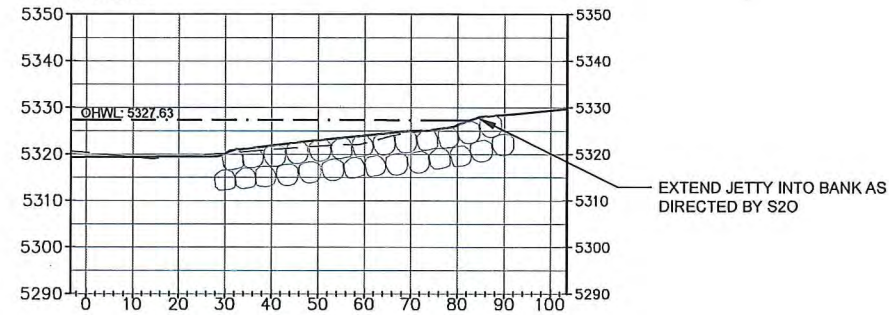
1st STREET CROSS SECTIONS

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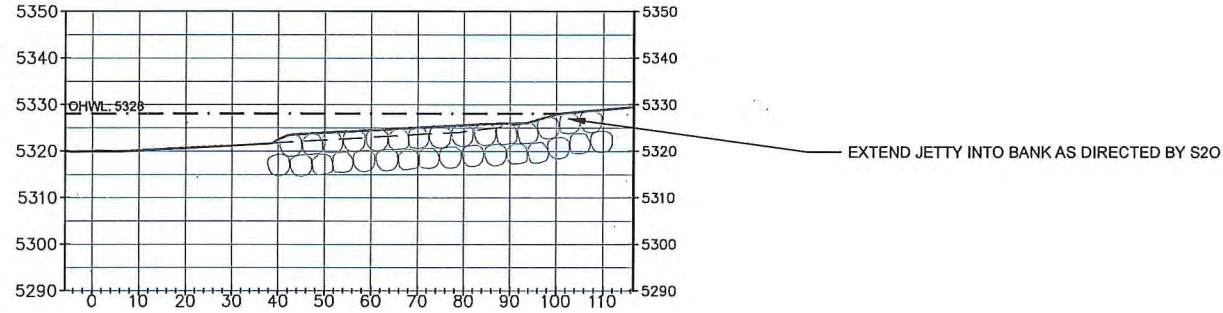
GRADE CONTROL STRUCTURE
13+21.14



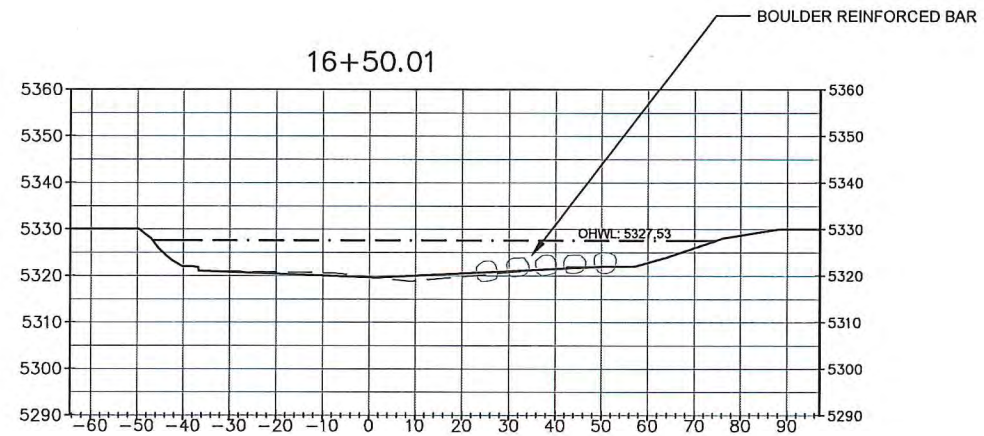
JETTY STRUCTURE #6
15+90.24



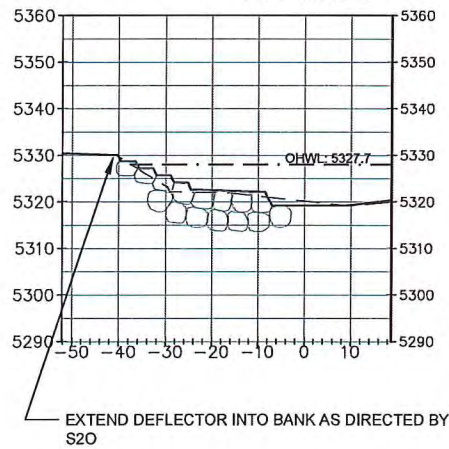
JETTY STRUCTURE #5
13+62.33



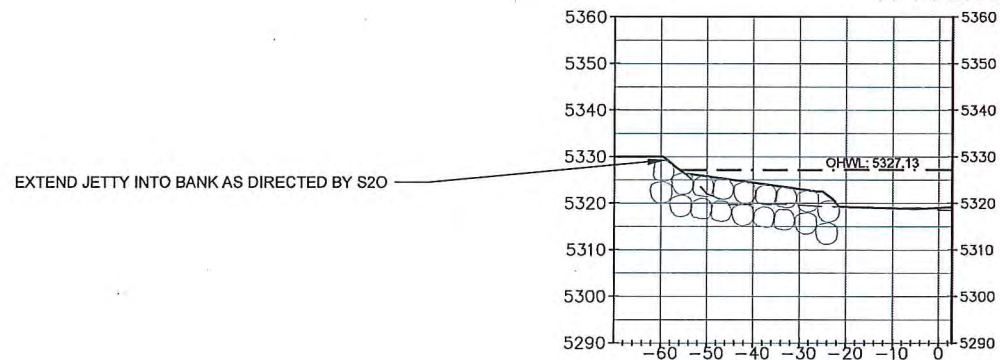
16+50.01



DEFLECTOR #1
15+49.95



JETTY STRUCTURE #7
17+73.66



KEY

- EXISTING GROUND
- PROPOSED GROUND
- OHWL



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CENTENNIAL PARK CROSS SECTIONS

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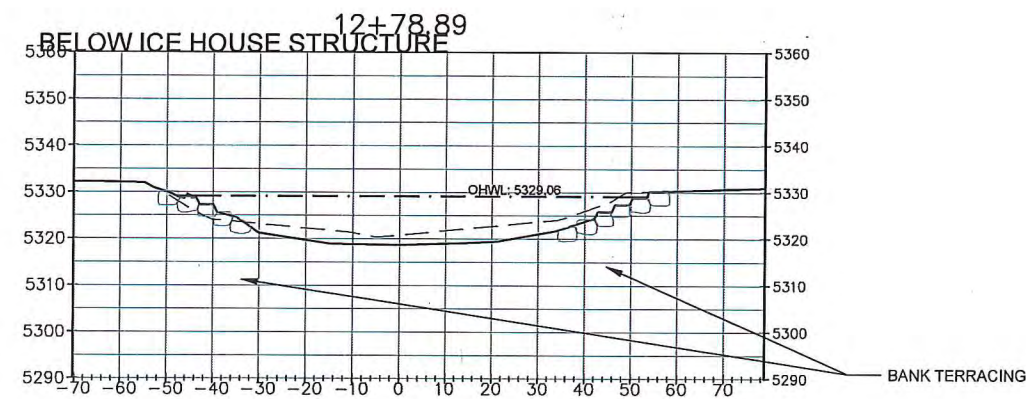
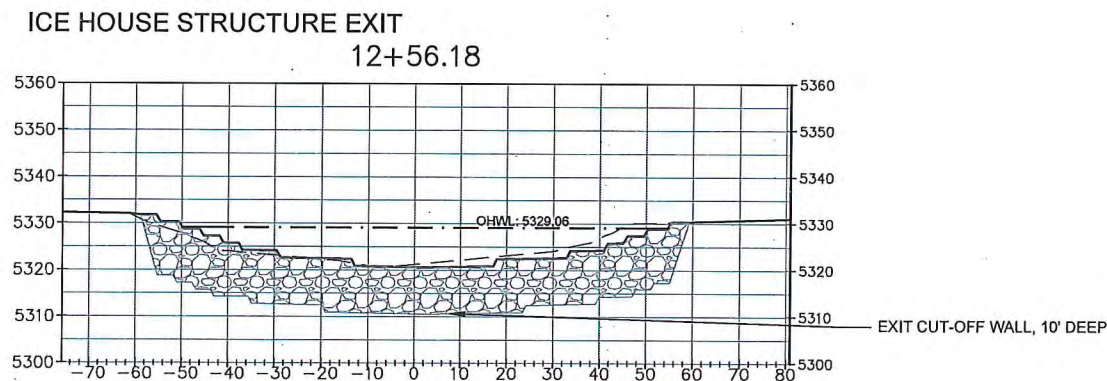
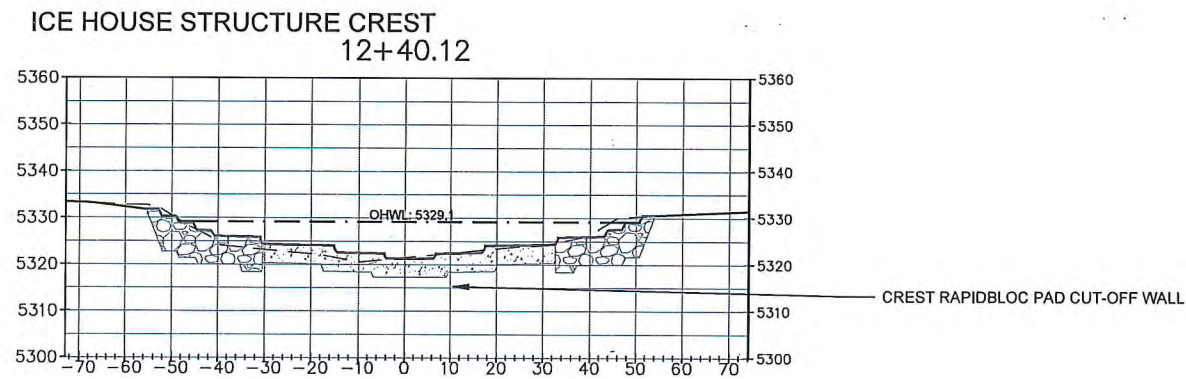
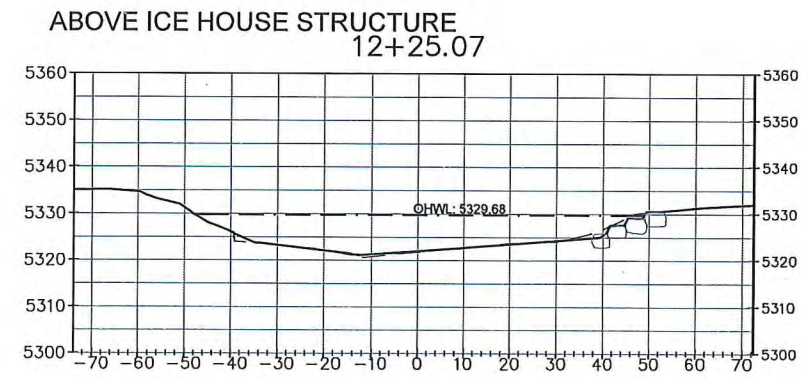


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CENTENNIAL PARK CROSS SECTIONS

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ICE HOUSE STRUCTURE CROSS SECTIONS

KEY	
---	EXISTING GROUND
—	PROPOSED GROUND
—	OHWL



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Project Name:
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REACH TWO DESIGN

Status:
DESIGN DRAWINGS

Drawing Name:
ICE HOUSE STRUCTURE CROSS
SECTIONS

Revisions:
-

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Checked By:
Scott Shipley

Date:
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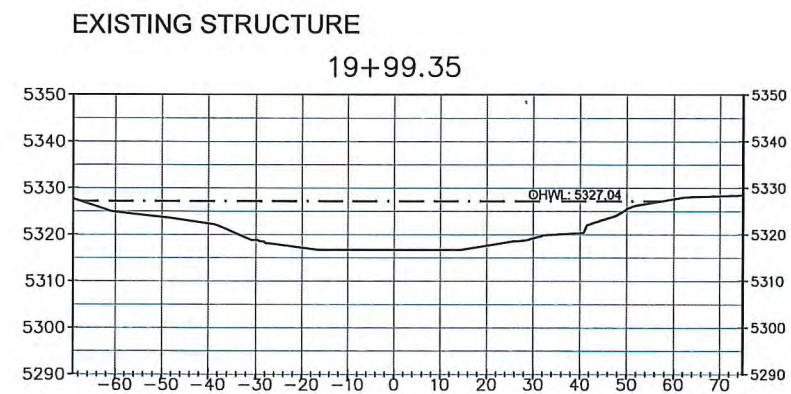
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EXISTING STRUCTURE MODIFICATION
CROSS SECTIONS

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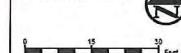
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KEY	
---	EXISTING GROUND
—	PROPOSED GROUND
—	OHWL

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EXISTING STRUCTURE MODIFICATION CROSS SECTIONS

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Drawing Name:
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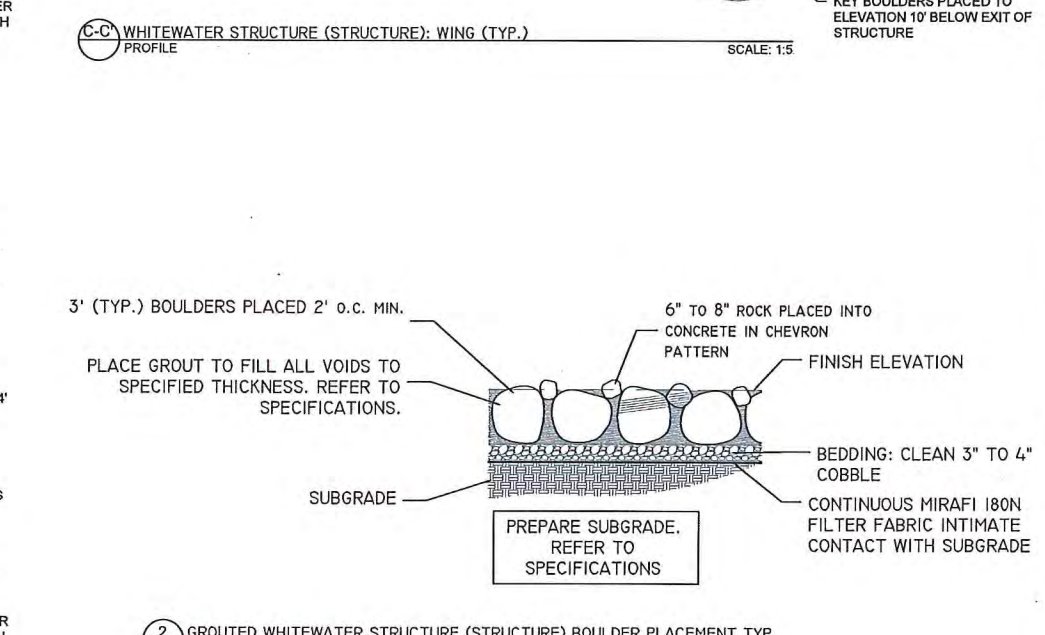
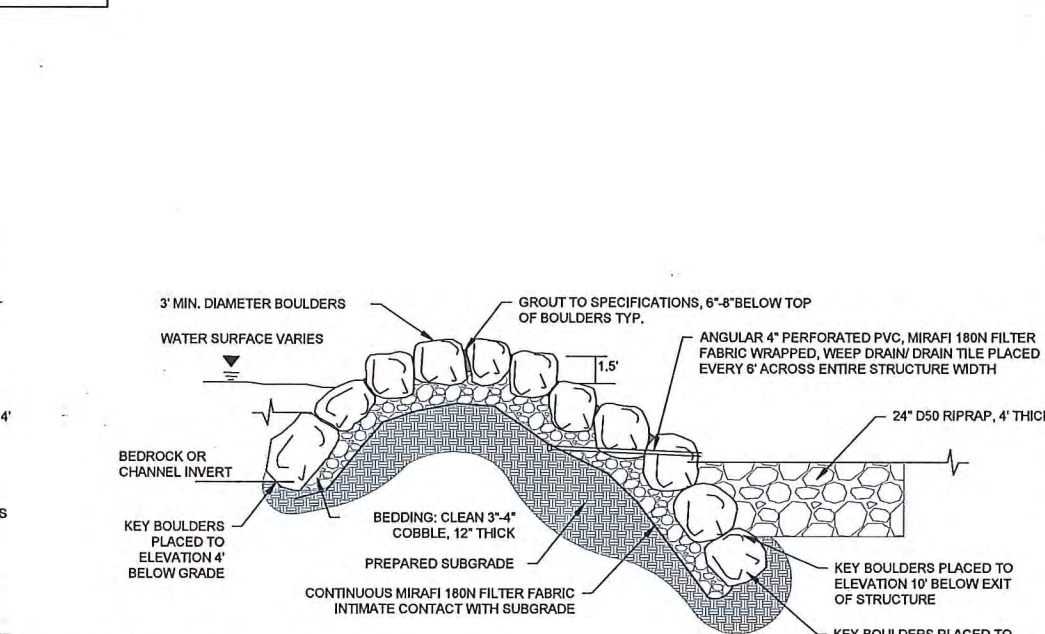
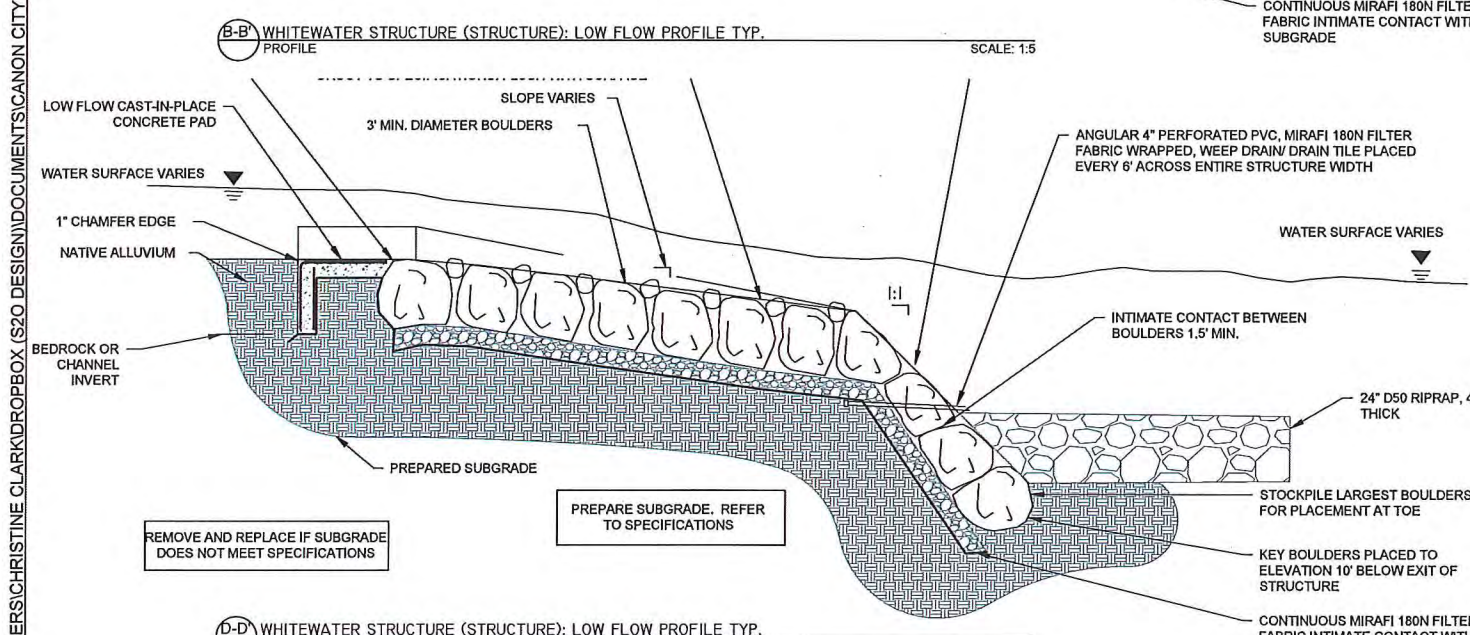
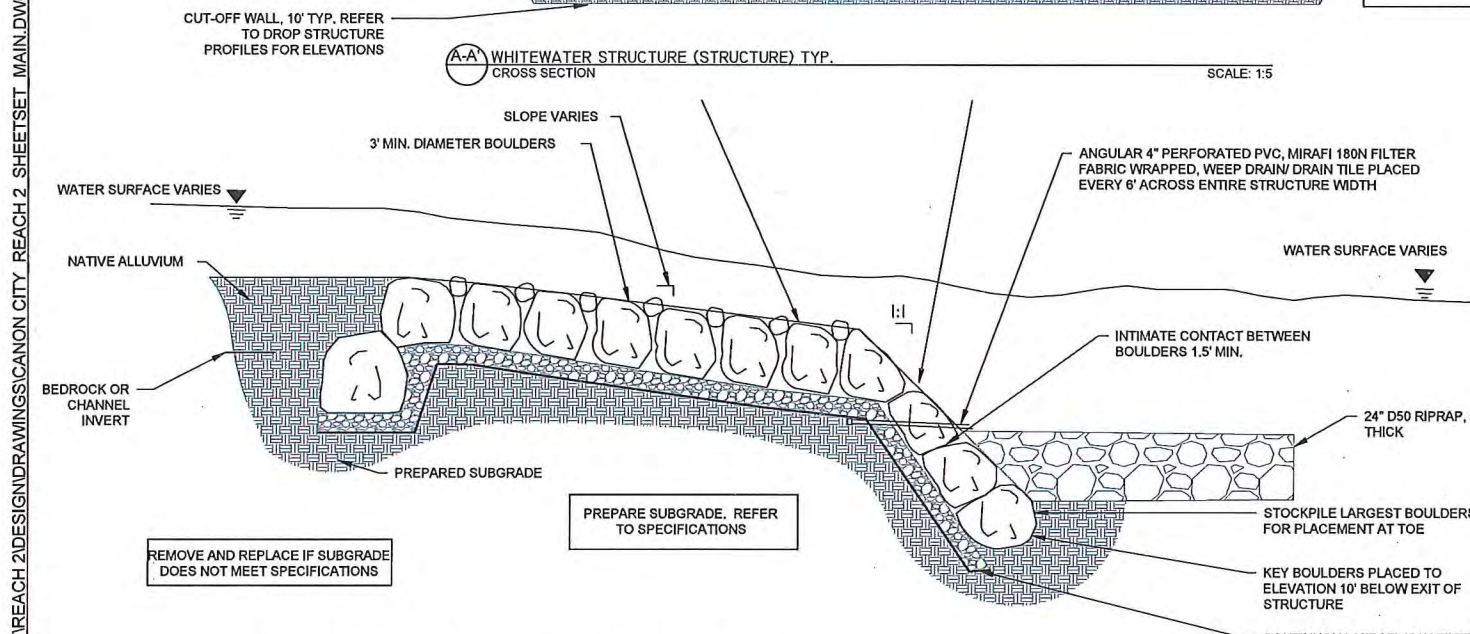
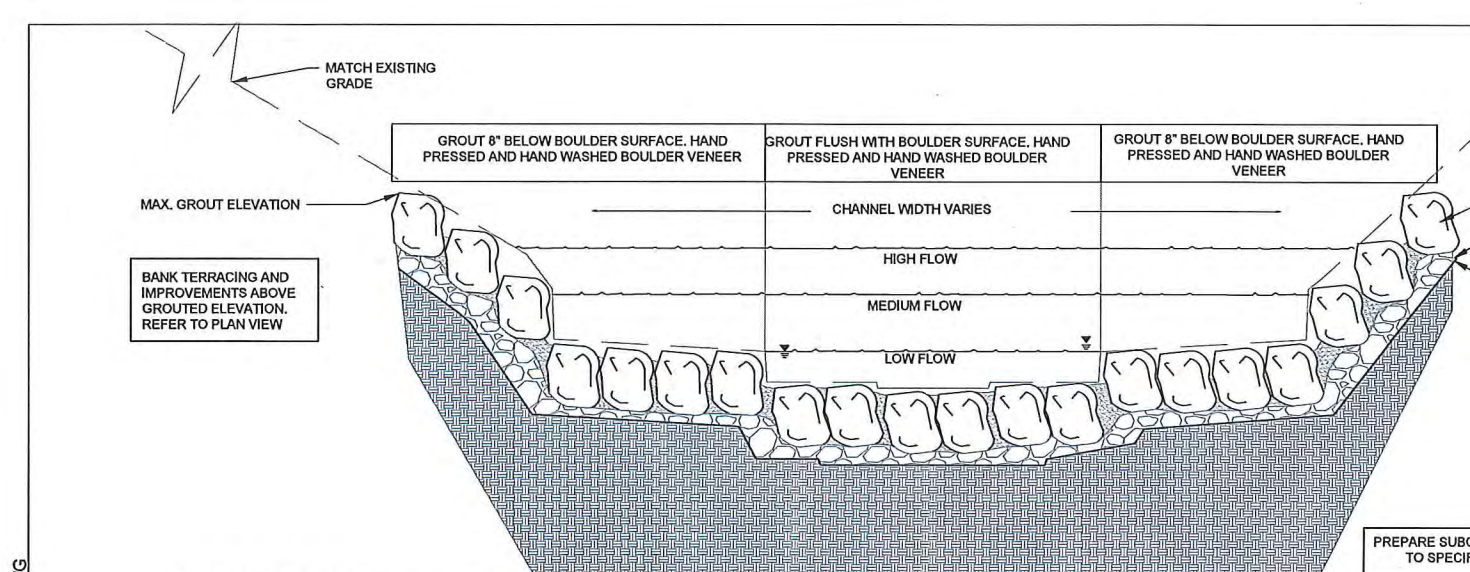
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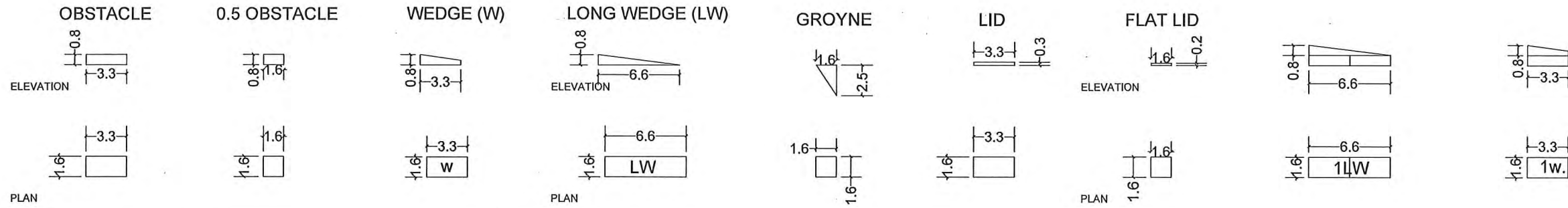
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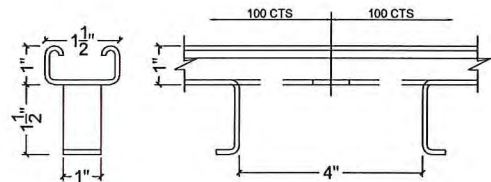
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3 RAPIDBLOC CONFIGURATIONS SCALE: NTS

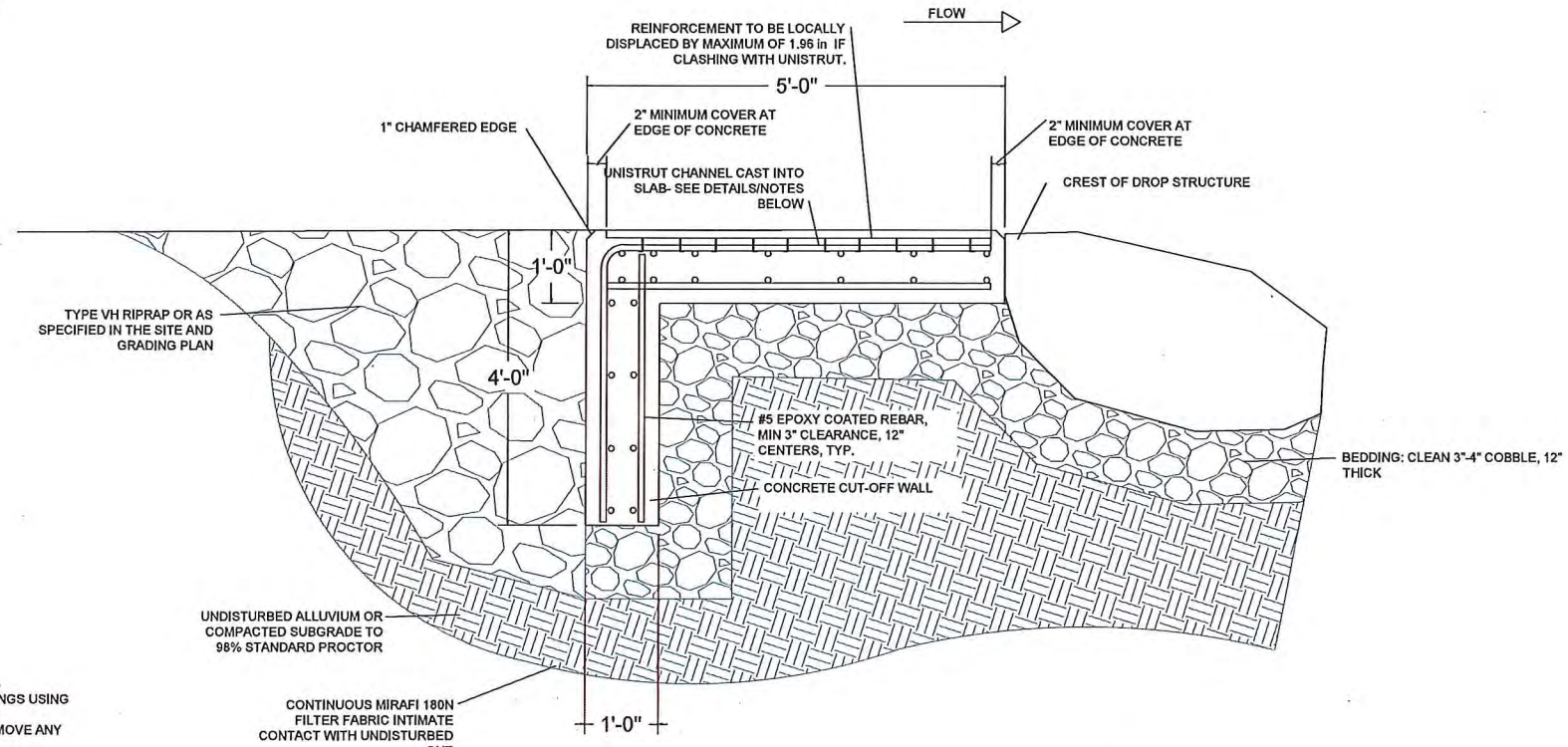


4 UNISTRUT INSERT DETAIL SECTION SCALE: NTS

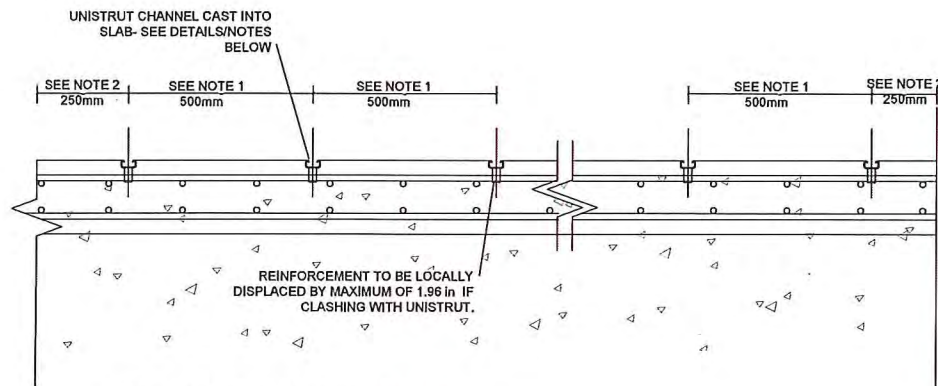
- NOTES**
- UNLESS OTHERWISE NOTED:
 - i) ALL CHANNEL INSERTS TO BE UNISTRUT TYPE P3270 - .83" x 1.6" HOT DIPPED STEEL, AND SUITABLE FOR STANDARD FIXINGS USING UNISTRUT NUTS. TYPICAL MANUFACTURERS STOCK LENGTHS = 20' LONG.
 - ii) WHERE UNISTRUT ARE BUTTED END TO END THE UPSTREAM END OF THE LOWER UNISTRUT SHALL BE ROUNDED TO REMOVE ANY SHARP/PROJECTING STEELWORK
 - iii) ALL STAINLESS STEEL ELEMENTS TO BE ISOLATED FROM OTHER METALIC COMPONENTS TO PREVENT BIMETALLIC CORROSION
 - iiii) 1" JOINT BETWEEN CONCRETE SLABS- UNISTRUT INSERTS TO BE DISCONTINUOUS AND GROUNDED
 - v) UNISTRUT TO HOLD SHORT 2" AT THE EDGE OF SLABS AND WALLS.

RAPIDBLOC INSTALLATION NOTE:
 SOME OBSTACLES MAY BE ADJUSTED IN THE FILED AS SPECIFIED BY AN S2O REPRESENTATIVE.

- SETTING OUT OF UNISTRUT INSERTS**
1. INSERTS GENERALLY 19.68" CENTERS (BUT NOT GREATER) UNLESS NOTED OTHERWISE.
 2. INSERTS ARE TO BE LAID FROM THE OUTSIDE EDGE OF CHANNEL TOWARDS THE CENTER. THE FIRST INSERT CENTER, MUST BE LAID 9.84" FROM THE OUTSIDE EDGE OF CHANNEL. SUBSEQUENT INSERTS ARE TO BE 19.68" CENTERS.
 3. ALL UNISTRUT INSERTS ARE TO BE LAID PARALLEL TO EACH OTHER AS INDICATED.
 4. THE LAYOUT OF THE UNISTRUT INSERTS SPECIFIED ON THE SETTING OUT PLANS ON NO ACCOUNT MAY BE ALTERED TO THAT AS INDICATED WITHOUT CONSULTATION AND APPROVAL. QUESTIONS AND CLARIFICATION SHOULD BE CONFIRMED BY AN S2O REPRESENTATIVE PRIOR TO INSTALLATION.

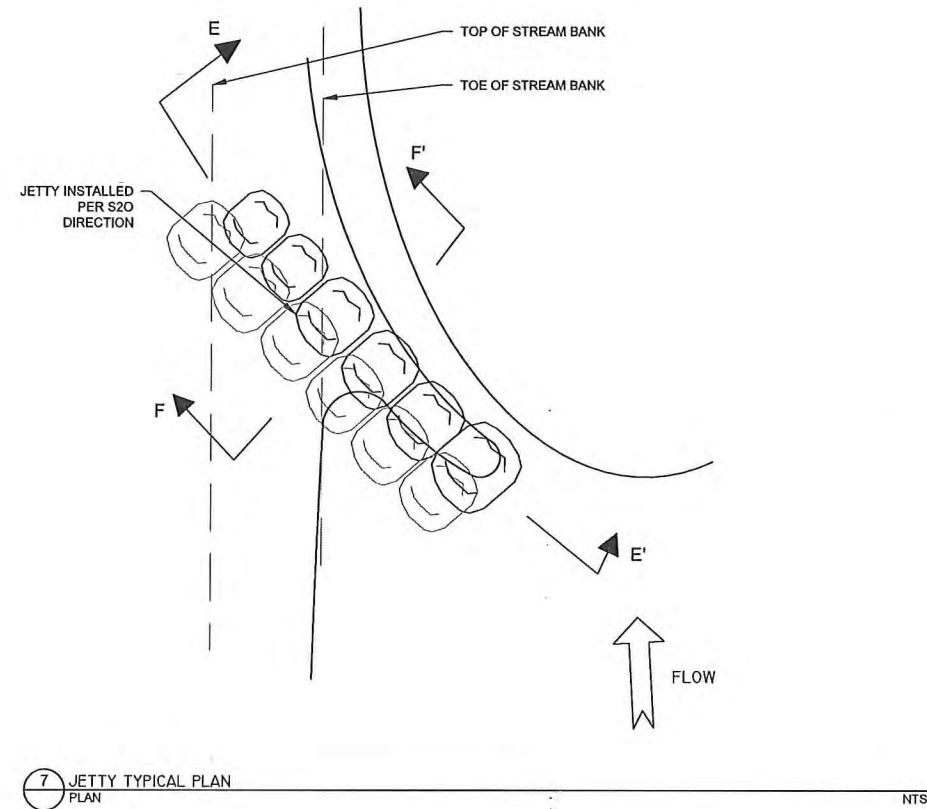


5 UNISTRUT CONNECTION DETAIL LONGITUDINAL SECTION SCALE: NTS



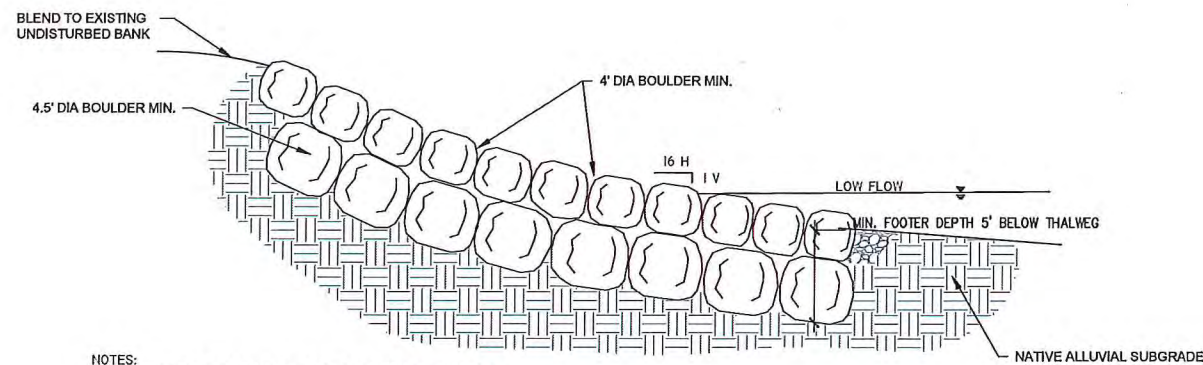
6 UNISTRUT CONNECTION DETAIL SECTION SCALE: NTS

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7 JETTY TYPICAL PLAN
PLAN

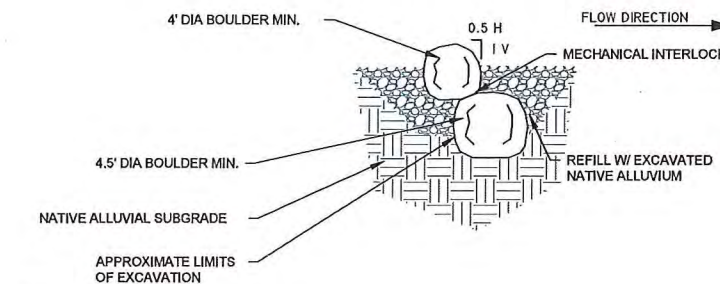
NTS



- NOTES:
 (1) CONSTRUCT BENDWAY WEIR PER DIRECTION OF ENGINEER.
 (2) THE TOP OF THE JETTY SHALL HAVE A SLOPE BETWEEN 4 TO 7 DEGREES.

E-E' JETTY TYPICAL SECTION

NTS



F-F' JETTY TYPICAL PROFILE

NTS



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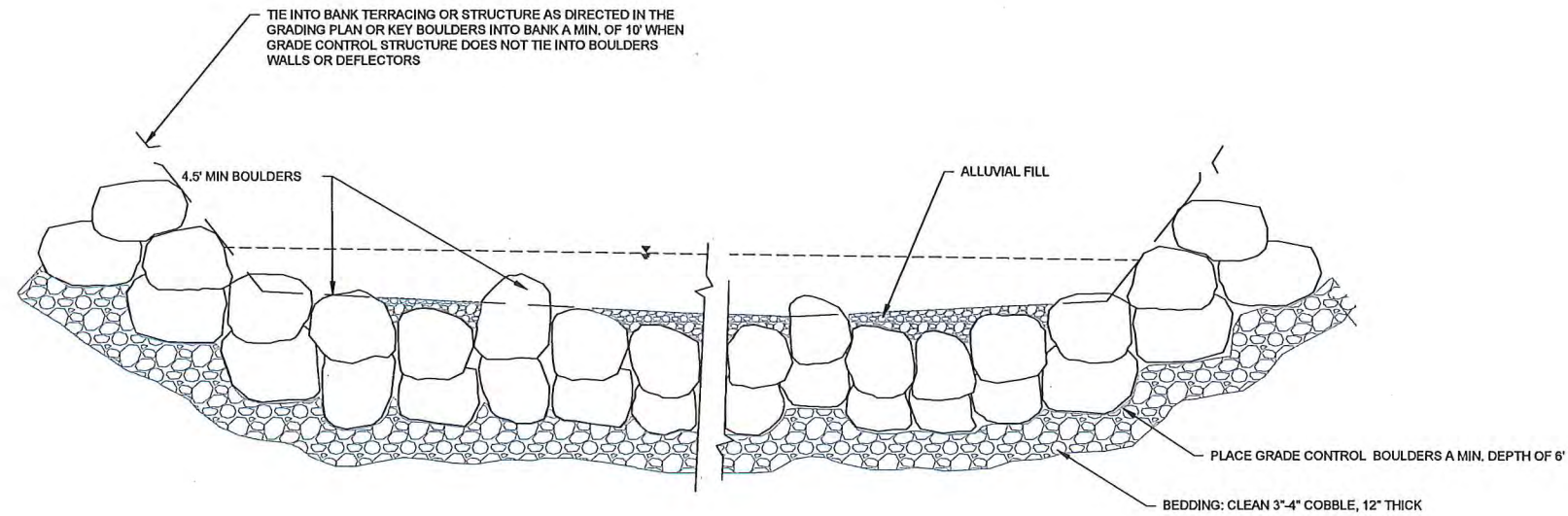
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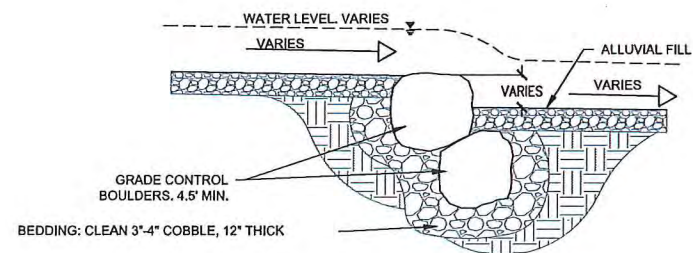
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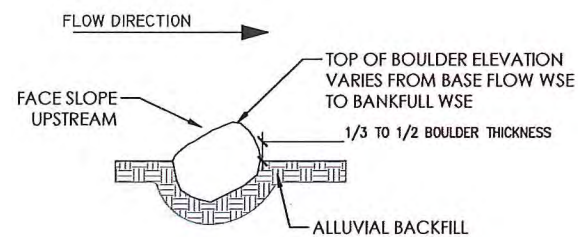
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8 CHANNEL GRADE CONTROL STRUCTURE TYP.
CROSS SECTION SCALE: NTS



9 CHANNEL GRADE CONTROL STRUCTURE, TYP.
PROFILE SCALE: NTS



10 HABITAT BOULDER PLACEMENT TYPICAL
PROFILE 1:5

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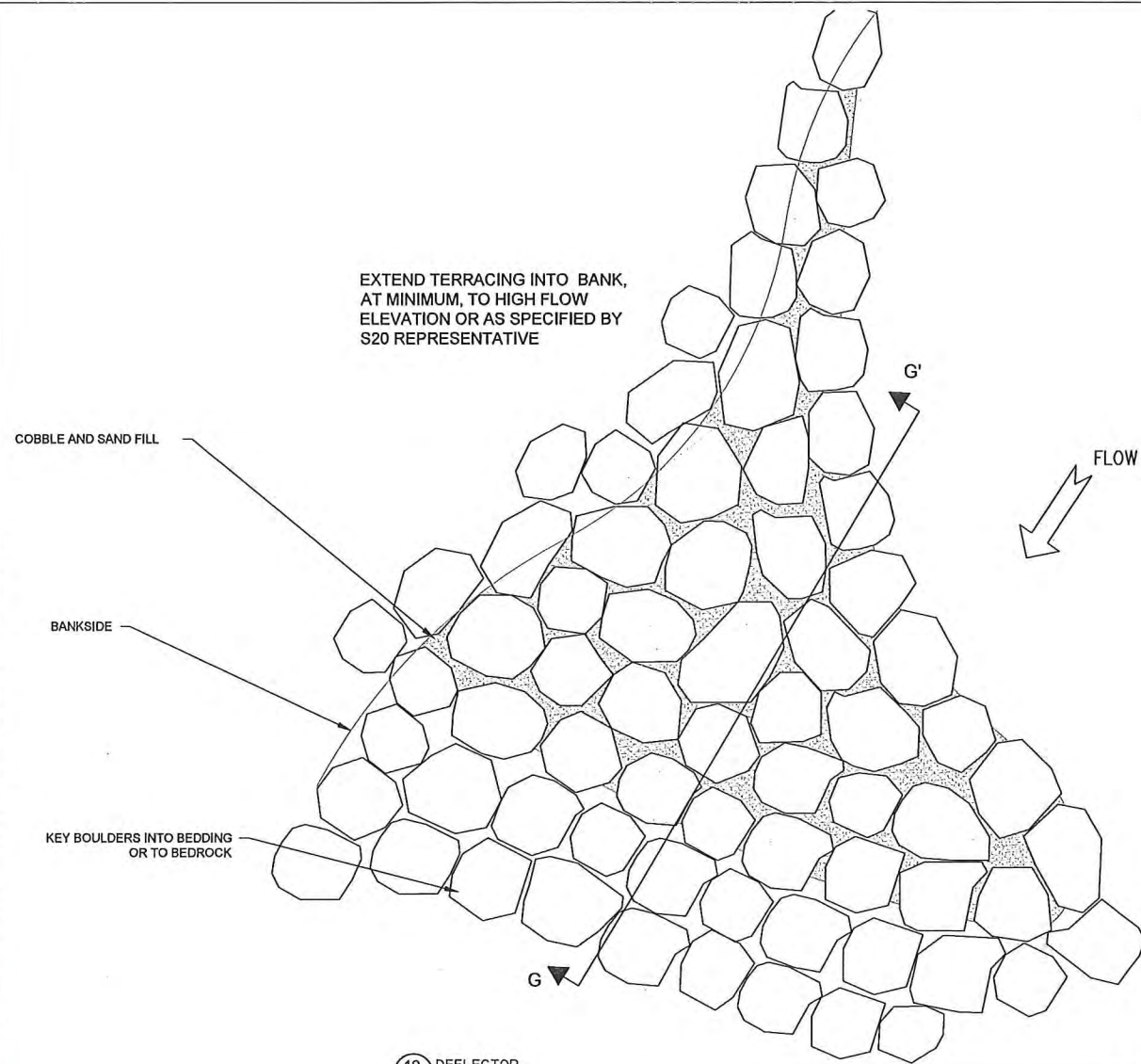
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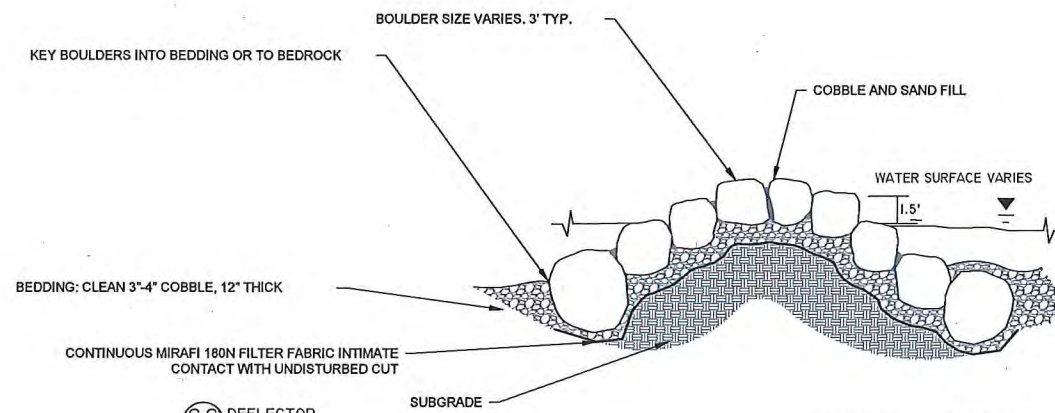
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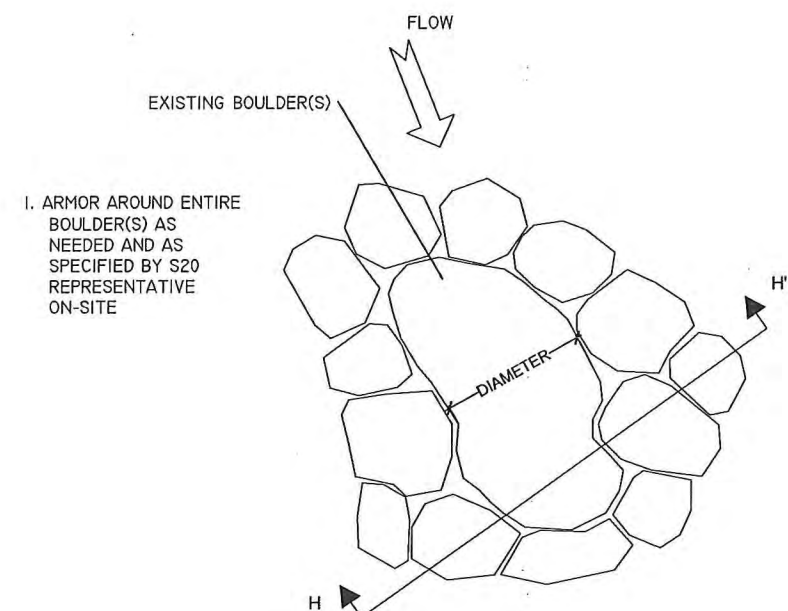
10 DEFLECTOR
PLAN

SCALE: 1:5



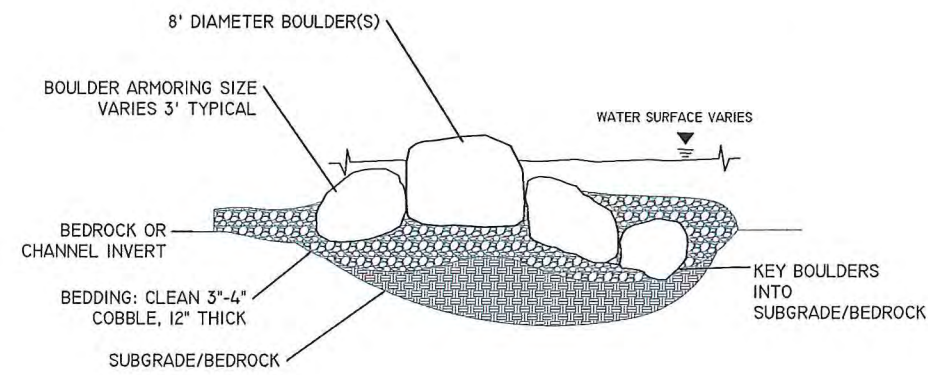
G-G DEFLECTOR
SECTION

SCALE: 1:5



11 ARMORING AROUND IN-STREAM BOULDER(S) (TYP.)
PLAN

SCALE: 1:5



H-H ARMORING AROUND IN-STREAM BOULDER(S) (TYP.)
SECTION

SCALE: 1:5