

GENERAL NOTES

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM CONSTRUCTION ACTIVITIES PER THE CONTRACT DOCUMENTS. ANY ADDITIONS, DELETIONS, OR MODIFICATIONS SHALL FIRST MEET WITH THE WRITTEN APPROVAL OF THE ENGINEER AND THE RTKC REPRESENTATIVE.
2. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
3. PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT THE DESIGNATED RTKC PROJECT REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING.
4. RTKC SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
5. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROTECTION OF PERSONNEL AND WORKERS. TRENCH SUPPORTS AND DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COORDINATED WITH THE RTKC SITE REPRESENTATIVE.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATION, SIZE, MATERIAL, AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION BY POTHOLING A MINIMUM OF 50 FEET IN ADVANCE OF TRENCHING OPERATIONS TO CONFIRM CLEARANCE FROM THE PROPOSED PIPELINE. REPORT ANY CONFLICTS TO THE ENGINEER.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE ALL TEMPORARY EROSION CONTROL AND MAINTENANCE AND SHALL COMPLY WITH THE APPROVED CONTRACTOR SUBMITTED WATER CONTROL AND MANAGEMENT PLAN PROVIDED WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL FORMS TO THE RTKC PROJECT REPRESENTATIVE.
8. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE.

9. PLACE PIPE TO DEPTH AND ALONG HORIZONTAL ALIGNMENT AS DEFINED IN THESE DRAWINGS. CONTRACTOR SHALL NOT DEVIATE FROM PROPOSED ALIGNMENT OR GRADE WITHOUT THE WRITTEN APPROVAL OF THE RTKC SITE REPRESENTATIVE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE SPECIFICATIONS.
11. CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL PIPE HANGERS, MOUNTS, SUPPORTS NOT SPECIFICALLY SHOWN ON DRAWINGS OR CALLED OUT IN SPECIFICATIONS, ETC., SHALL BE LEFT UP TO THE CONTRACTORS DISCRETION ON SITE.
13. CONTRACTOR SHALL NOT CONNECT TO ANY EXISTING UTILITIES UNLESS SPECIFICALLY SHOWN ON DRAWINGS.
14. CONTRACTOR IS RESPONSIBLE FOR PREPARING, SECURING AND MAINTAINING WORKS STAGING AREAS, INCLUDING ADEQUATE PROTECTION OF MATERIALS AND EQUIPMENT.
15. CONSTRUCTION SEQUENCING: RTKC WILL DIRECT CONTRACTOR IN THE SEQUENCING OF CONSTRUCTION OF FEATURES.
16. CONTRACTOR TO VERIFY QUANTITIES ON BID SCHEDULE AND IDENTIFY ANY DISCREPANCIES BETWEEN DRAWINGS AND QUANTITIES
17. SURFACES OF PROPOSED WASTE ROCK FACE AND TOE AND SURFACES FOR NORTH AND SOUTH BASINS WERE NOT PROVIDED IN STATE PLANE COORDINATE BY RTKC. URS ESTIMATED THEIR LOCATIONS IN THE PROJECT COORDINATE SYSTEM.
18. ACCESS ROADS TO THE SITES WILL BE CONSTRUCTED BY THE CONTRACTOR AND BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
19. ALL BERM CONSTRUCTION AND COMPACTION ARE SUBJECT TO APPROVAL BY RTKC SITE REPRESENTATIVE. VARIATIONS IN SOURCE MATERIAL ARE FURTHER SUBJECT TO APPROVAL.

SURVEY CONTROL

1. ALL ELEVATIONS ARE BASED ON NAVD 88.
2. ALL COORDINATES SHOWN ARE BASED ON STATE PLANE COORDINATE SYSTEM USING NAD 83.



RELEASE FOR CONSTRUCTION

URS

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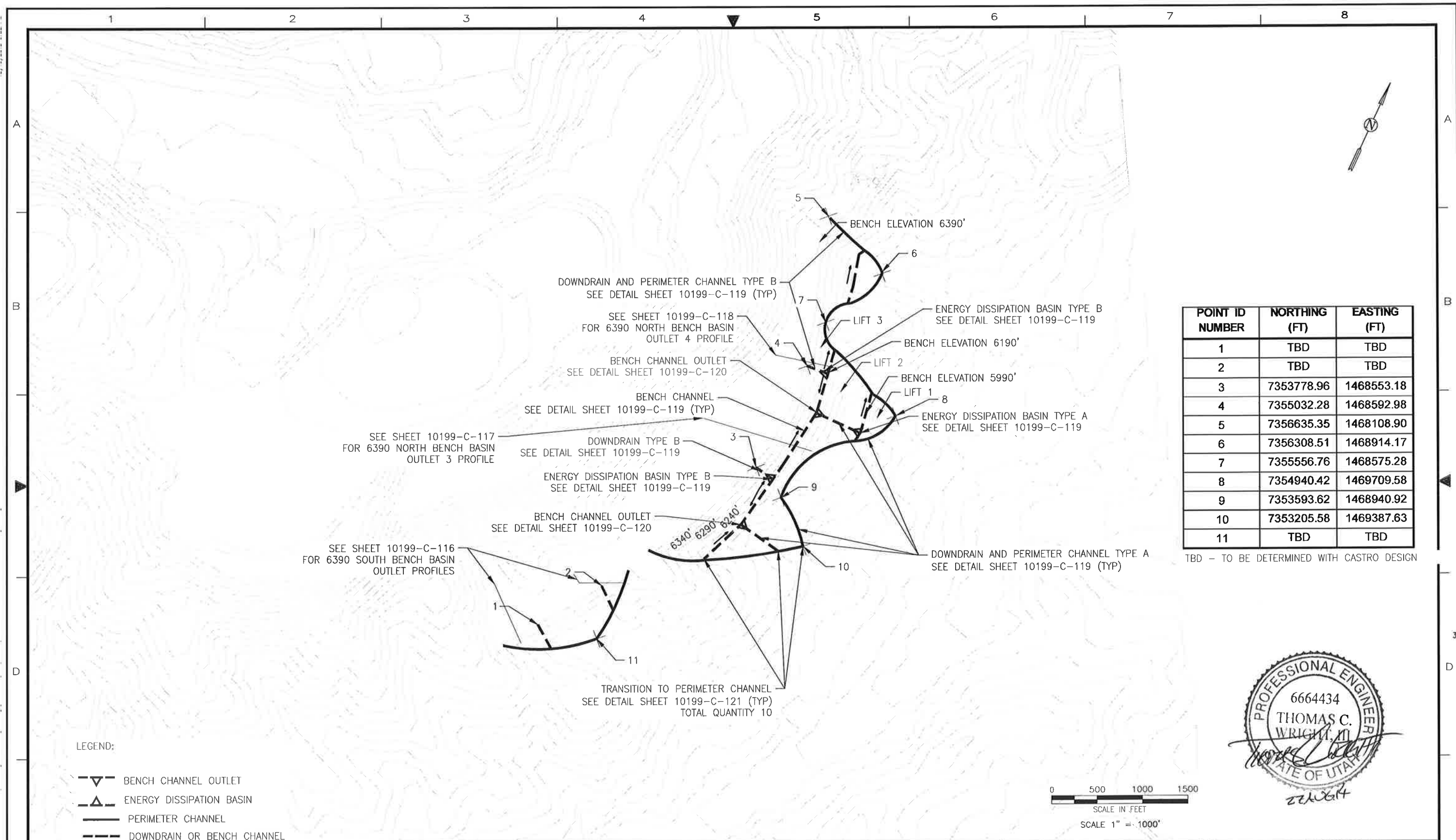
SOUTH END DRAINAGE COLLECTION SYSTEM GENERAL NOTES

2 OF 30

AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

APPROVAL	DATE	SCALE:	DATE
		DESIGNED BY	
		DRAWN BY	
		CHECKED BY	
		PROJECT ENGINEER	
		PROJECT MANAGER	

Job No. Dwg. No. **10199-C-102** REV.

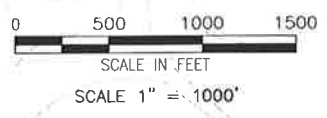


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2	TBD	TBD
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4	7355032.28	1468592.98
5	7356635.35	1468108.90
6	7356308.51	1468914.17
7	7355556.76	1468575.28
8	7354940.42	1469709.58
9	7353593.62	1468940.92
10	7353205.58	1469387.63
11	TBD	TBD

TBD - TO BE DETERMINED WITH CASTRO DESIGN

LEGEND:

- BENCH CHANNEL OUTLET
- ENERGY DISSIPATION BASIN
- PERIMETER CHANNEL
- DOWNDRAIN OR BENCH CHANNEL



AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

RELEASE FOR CONSTRUCTION

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APPROVAL	DATE	SCALE	DATE
		DESIGNED BY	
		DRAWN BY	
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		PROJECT ENGINEER	
		PROJECT MANAGER	

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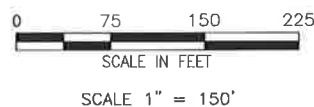
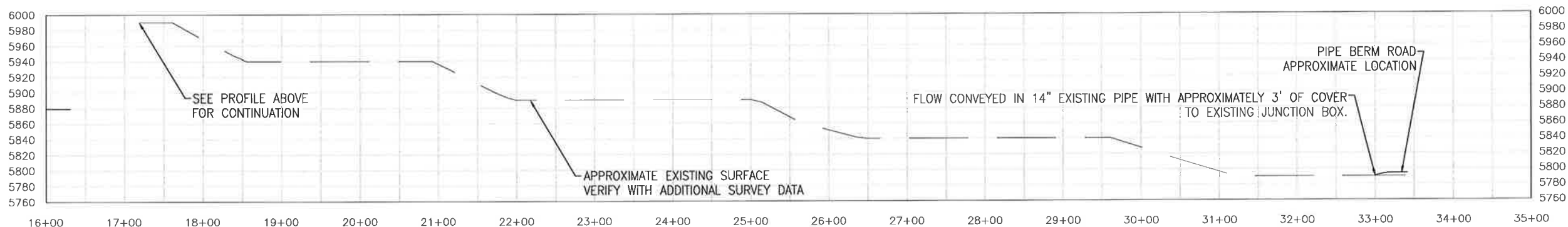
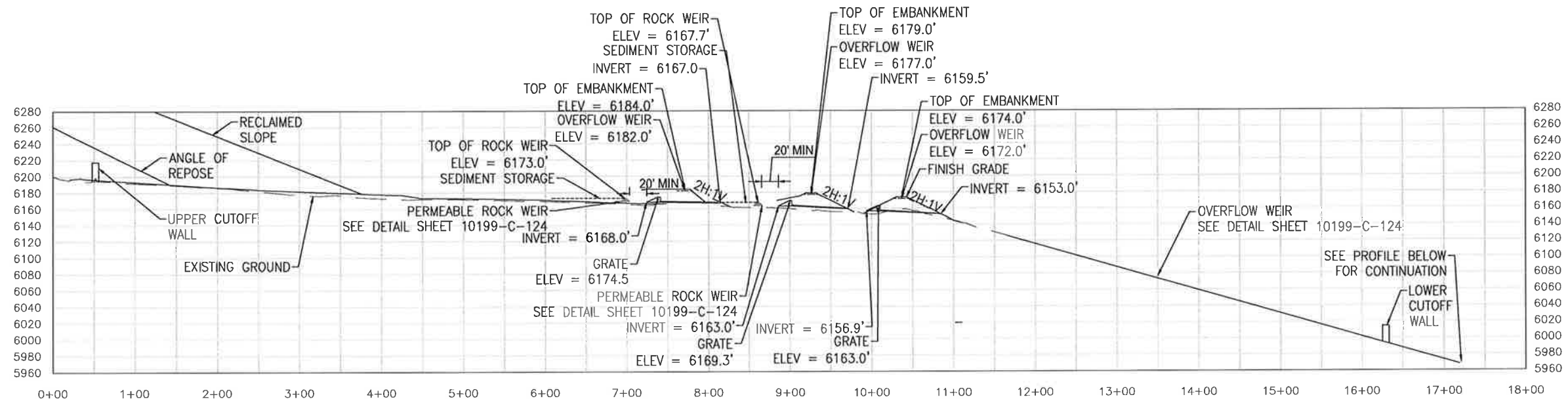
SOUTH END DRAINAGE COLLECTION SYSTEM
DOWNDRAIN LAYOUT

4 OF 30

Job No. _____ Dwg. No. **10199-C-103** REV. _____

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CASTRO BASINS 3.1, 3.2, & 3.3 PROFILE



RELEASE
FOR CONSTRUCTION

URS

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UTAH COPPER**

SOUTH END DRAINAGE COLLECTION SYSTEM
CASTRO
BASINS 3.1, 3.2, AND 3.3 PROFILE

6 OF 30

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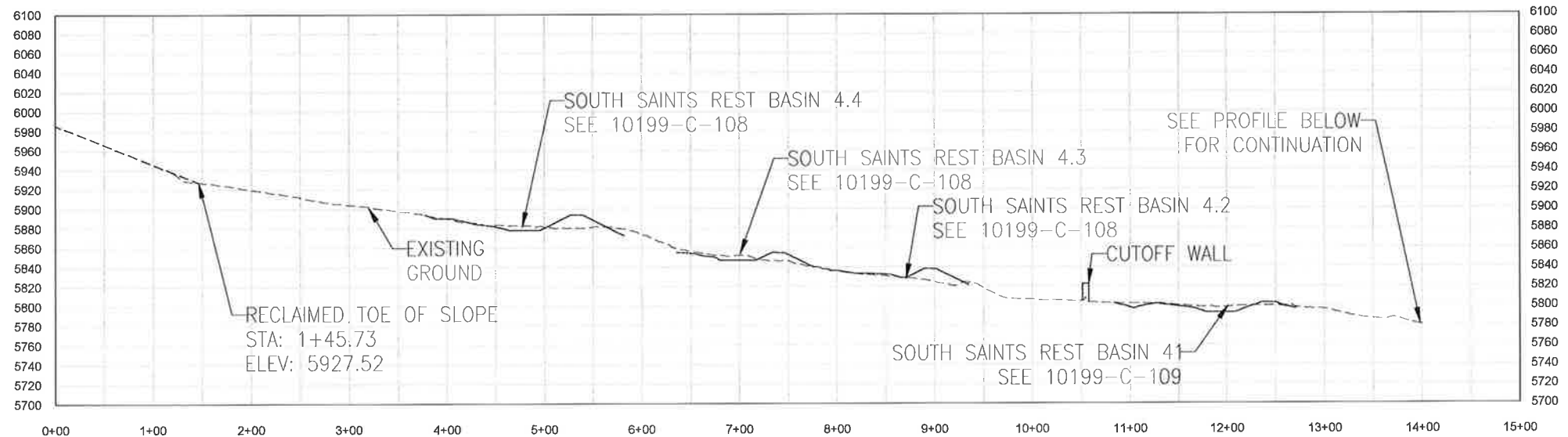
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PROJECT ENGINEER			
PROJECT MANAGER			

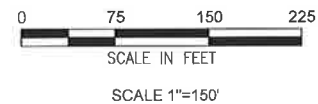
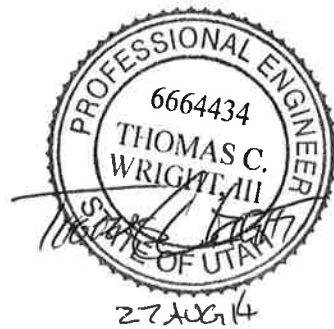
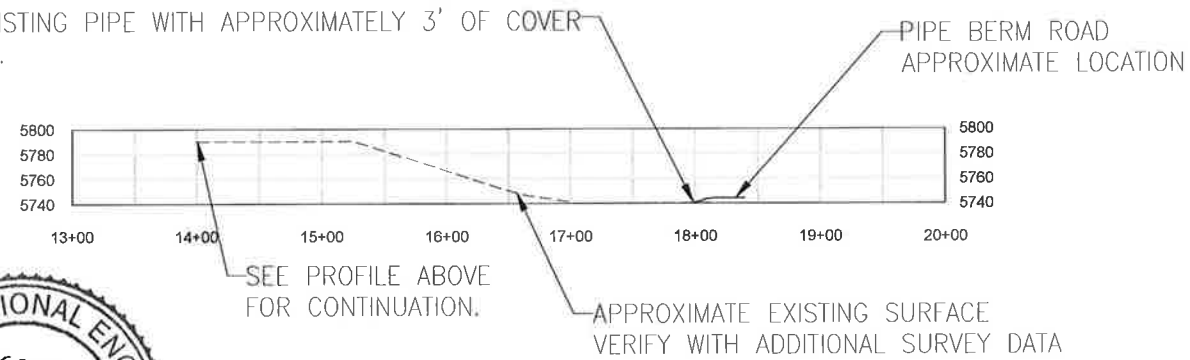
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FLOW CONVEYED IN 12" EXISTING PIPE WITH APPROXIMATELY 3' OF COVER TO EXISTING JUNCTION BOX.



RELEASE FOR CONSTRUCTION

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SOUTH END DRAINAGE COLLECTION SYSTEM
SOUTH SAINTS REST
GRADING PROFILE 8 OF 30

Job No. Dwg. No. 10199-C-107 REV.

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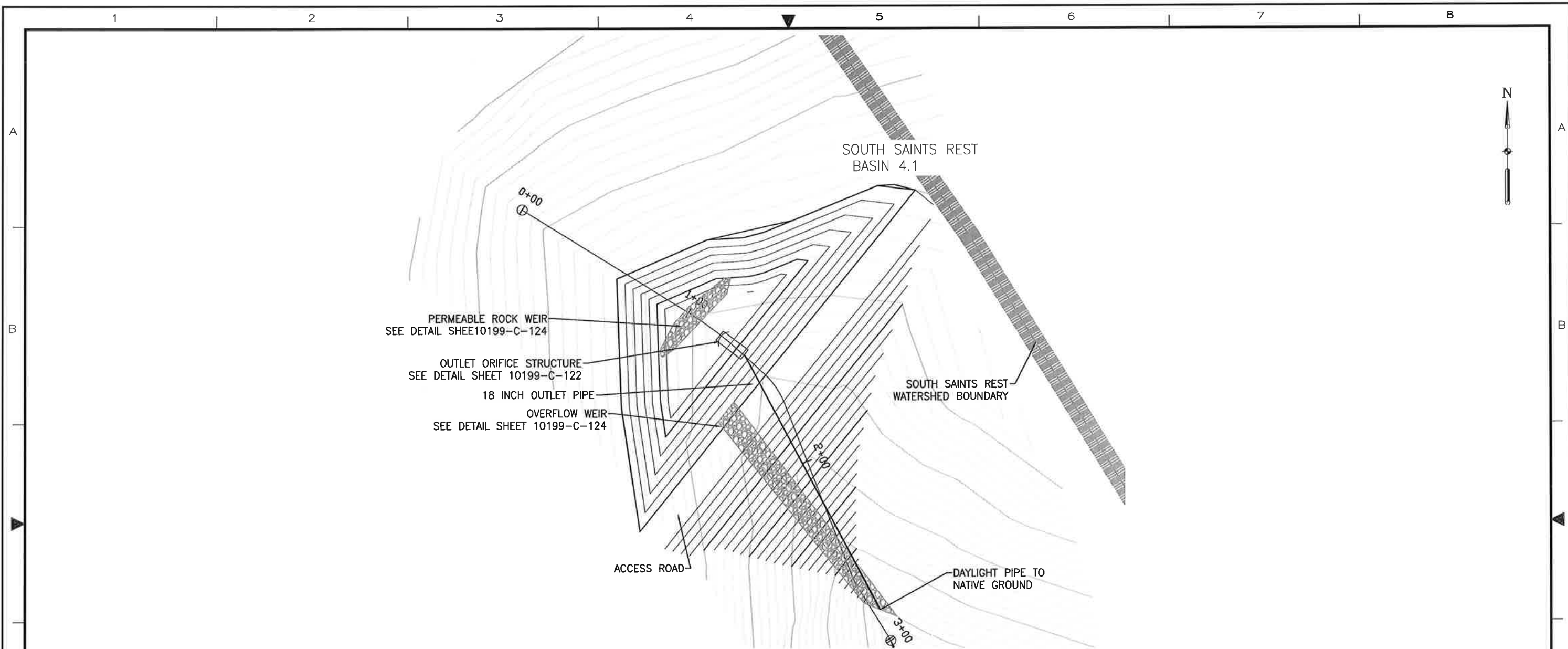
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PERMEABLE ROCK WEIR
SEE DETAIL SHEE10199-C-124

OUTLET ORIFICE STRUCTURE
SEE DETAIL SHEET 10199-C-122

18 INCH OUTLET PIPE

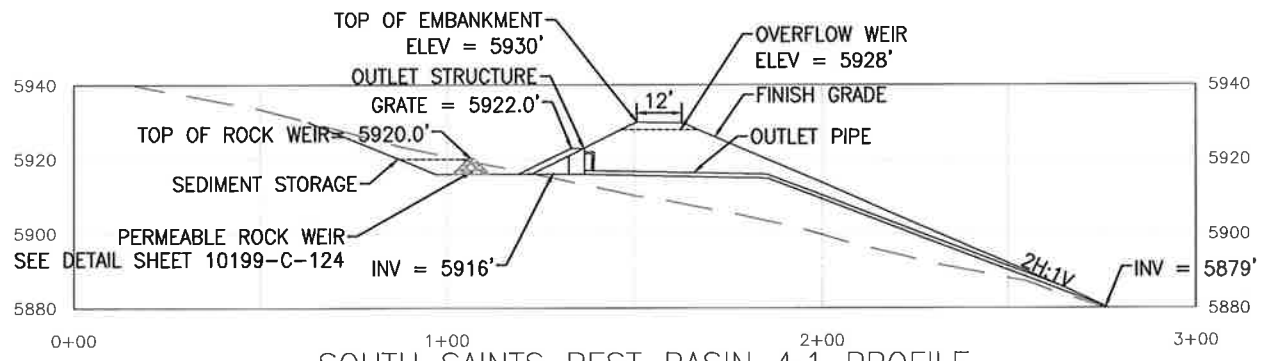
OVERFLOW WEIR
SEE DETAIL SHEET 10199-C-124

SOUTH SAINTS REST BASIN 4.1

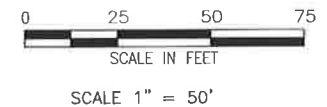
SOUTH SAINTS REST WATERSHED BOUNDARY

ACCESS ROAD

DAYLIGHT PIPE TO NATIVE GROUND



SOUTH SAINTS REST BASIN 4.1 PROFILE



RELEASE FOR CONSTRUCTION

URS

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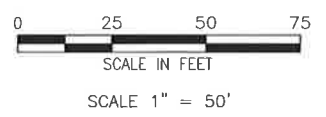
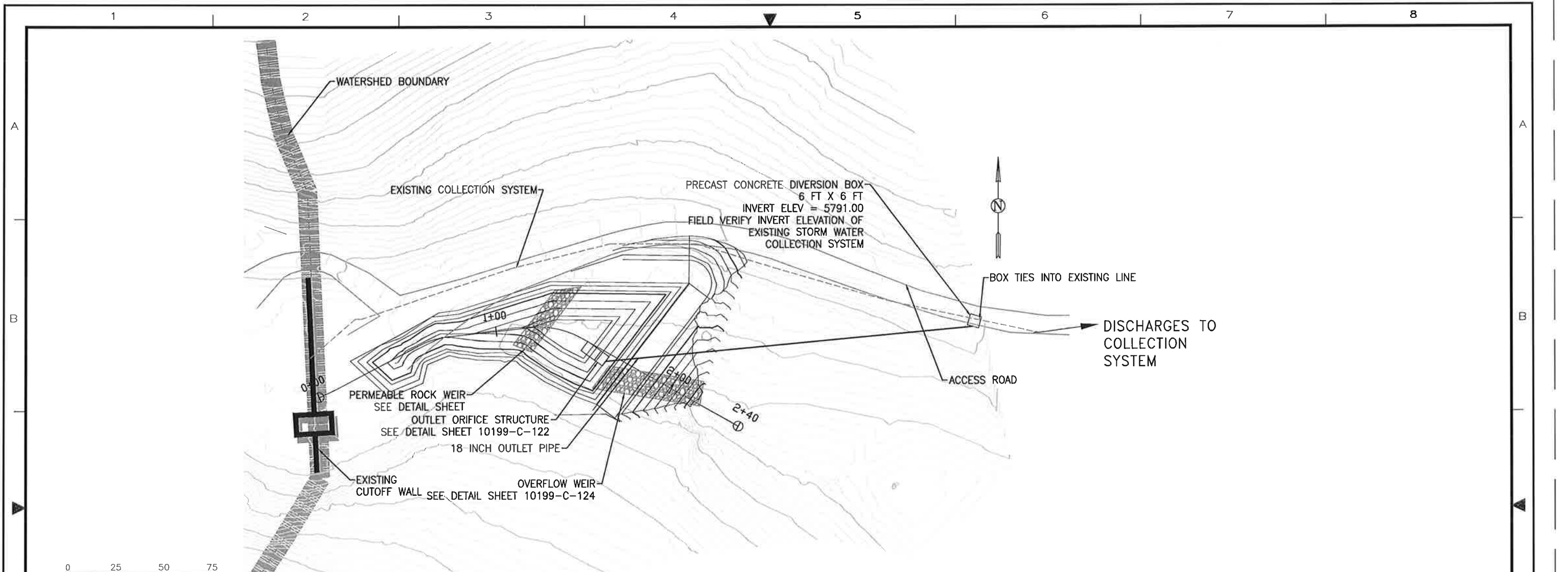
SOUTH END DRAINAGE COLLECTION SYSTEM
SOUTH SAINTS REST
BASIN 4.1 PLAN AND PROFILE 11 OF 30

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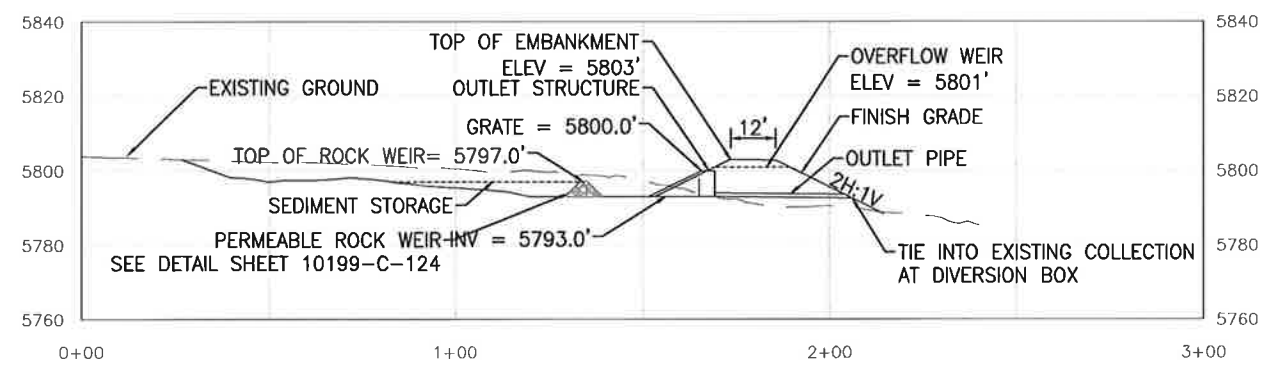
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SOUTH SAINTS REST BASIN 41 PLAN



SOUTH SAINTS REST BASIN 41 PROFILE



RELEASE
FOR CONSTRUCTION

URS

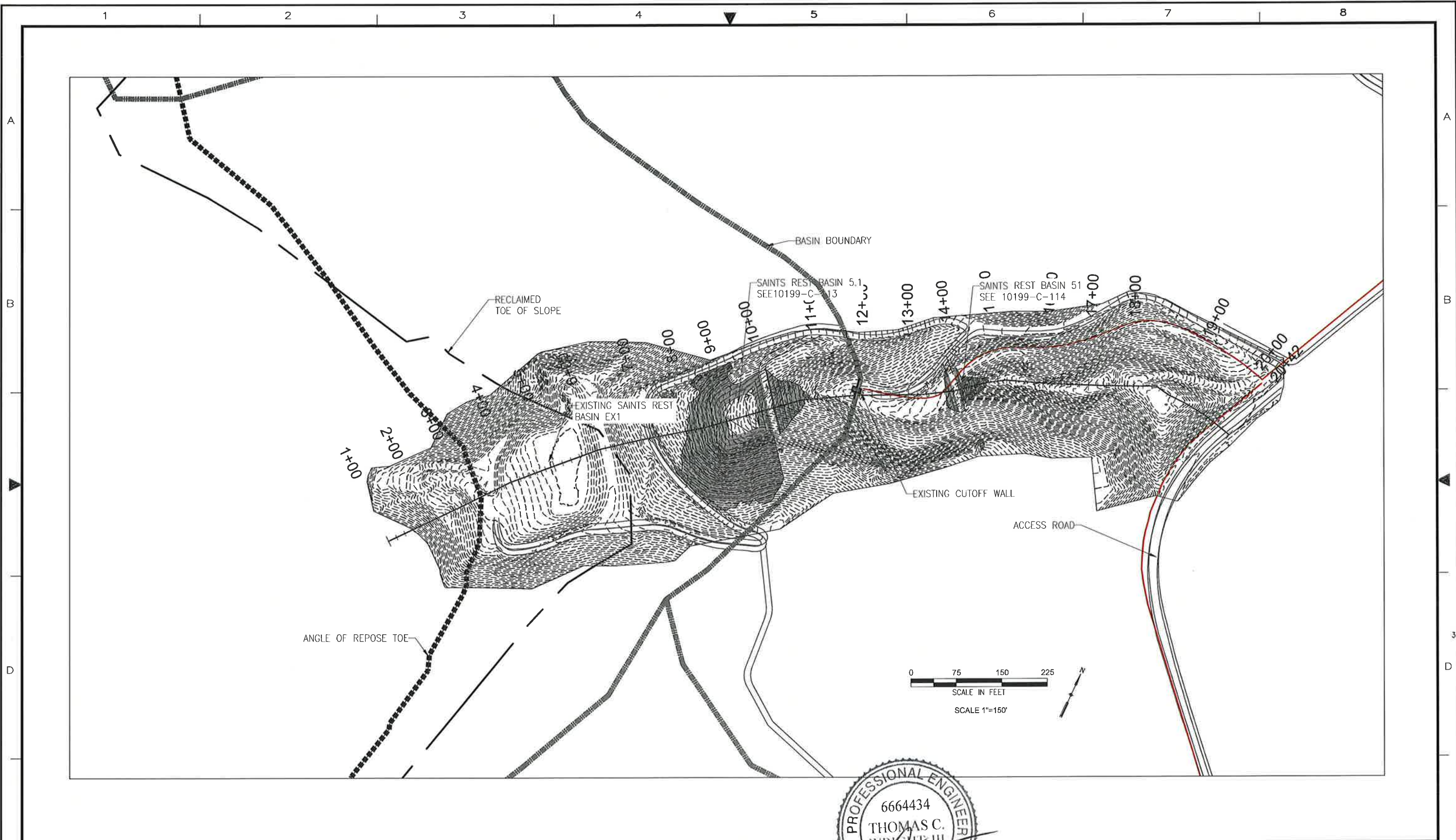
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SOUTH END DRAINAGE COLLECTION SYSTEM SOUTH SAINTS REST BASIN 41 PLAN AND PROFILE	
Job No.	Dwg. No. 10199-C-110 REV.

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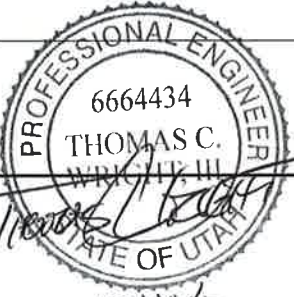
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**RELEASE
FOR CONSTRUCTION**

NOTES



APPROVAL		DATE	SCALE:	DATE

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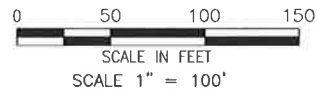
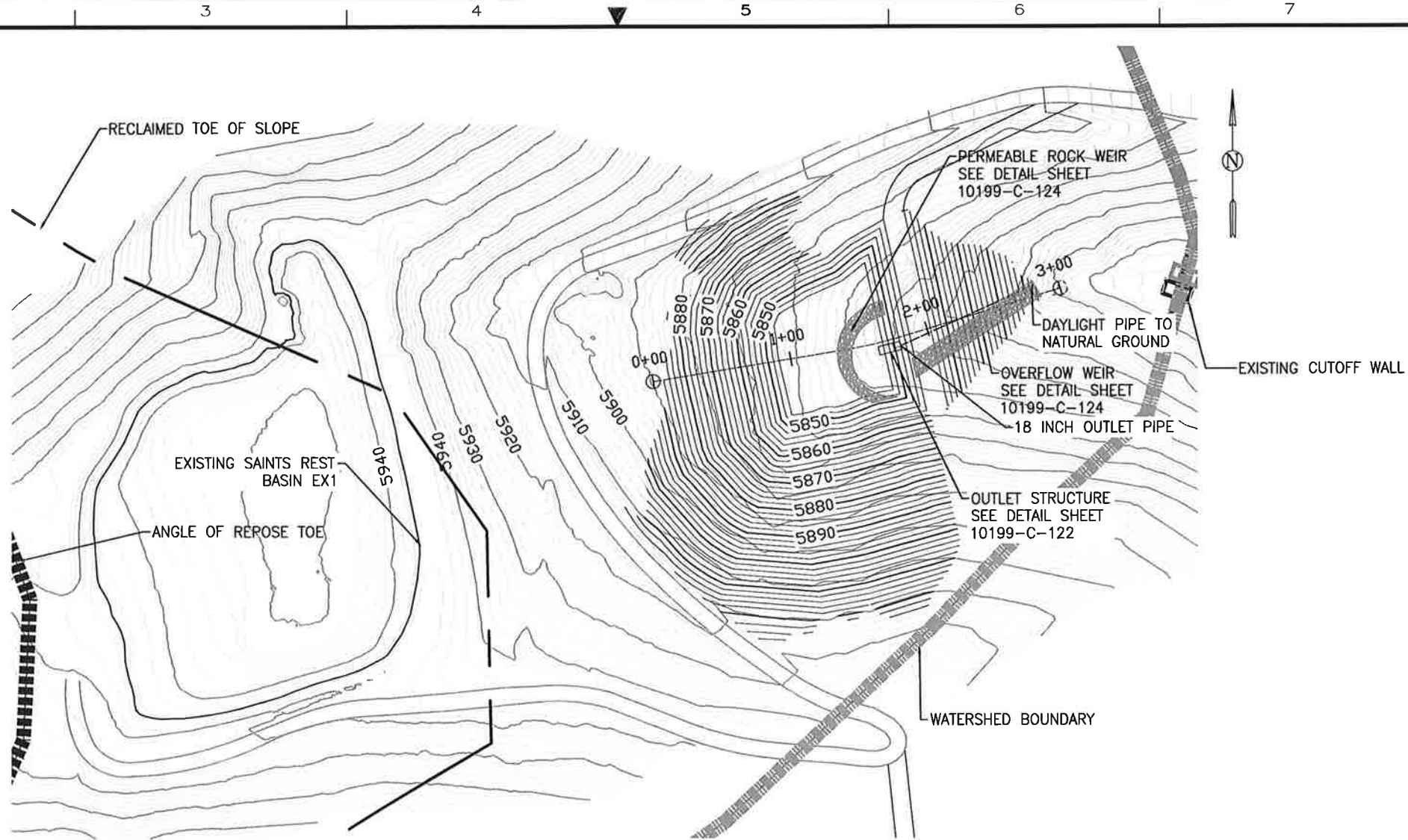
SOUTH END DRAINAGE COLLECTION SYSTEM
SAINTS REST GRADING PLAN

12 OF 30

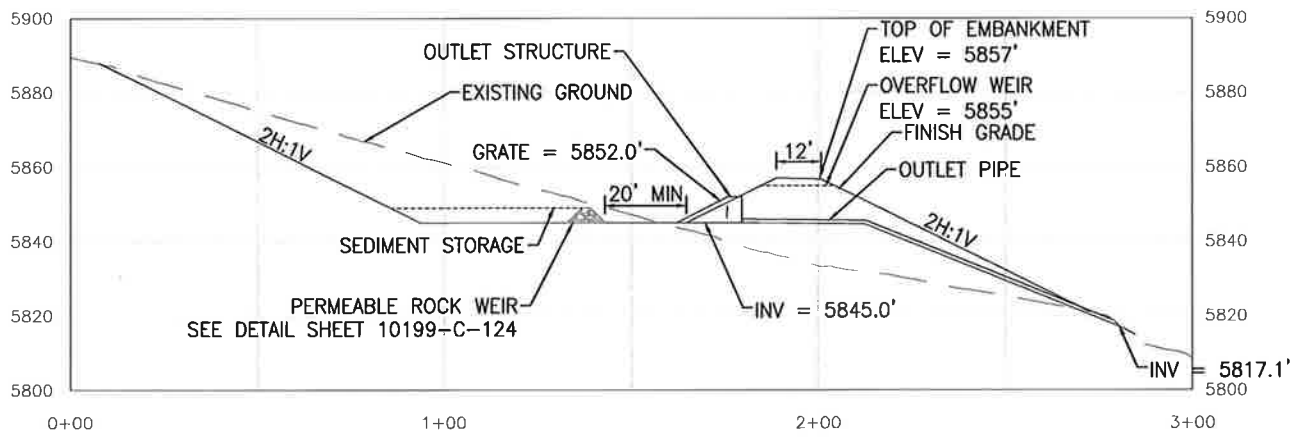
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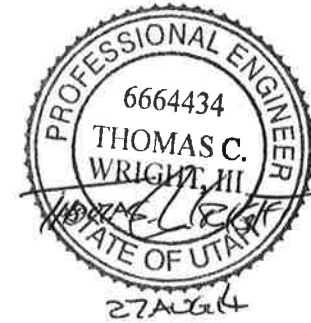
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SAINTS REST BASIN 5.1 PLAN



SAINTS REST BASIN 5.1 PROFILE



RELEASE FOR CONSTRUCTION

URS

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SOUTH END DRAINAGE COLLECTION SYSTEM
SAINTS REST BASIN 5.1
PLAN AND PROFILE

14 OF 30

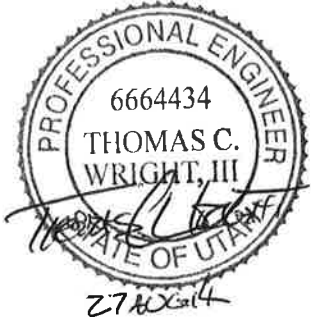
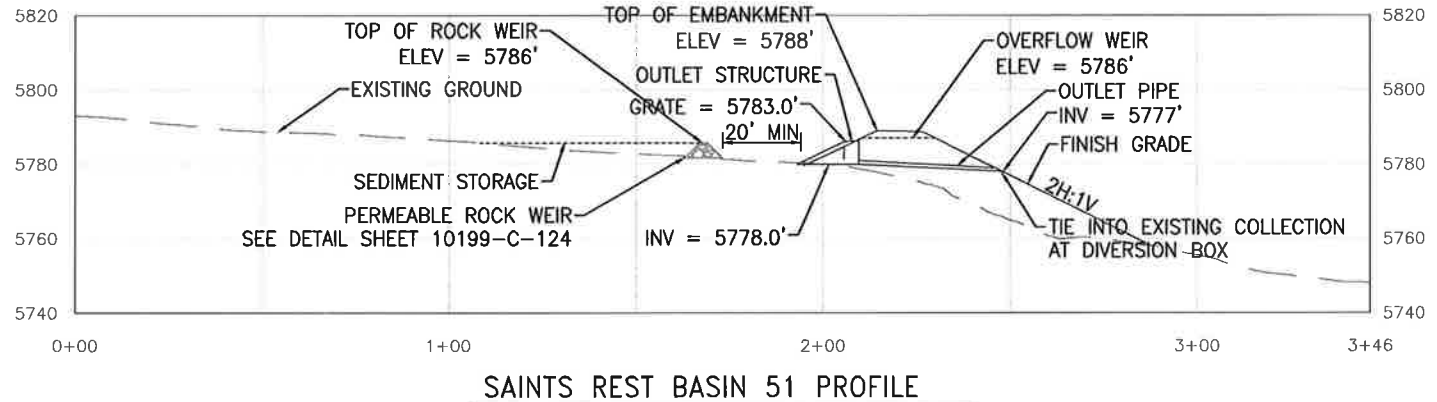
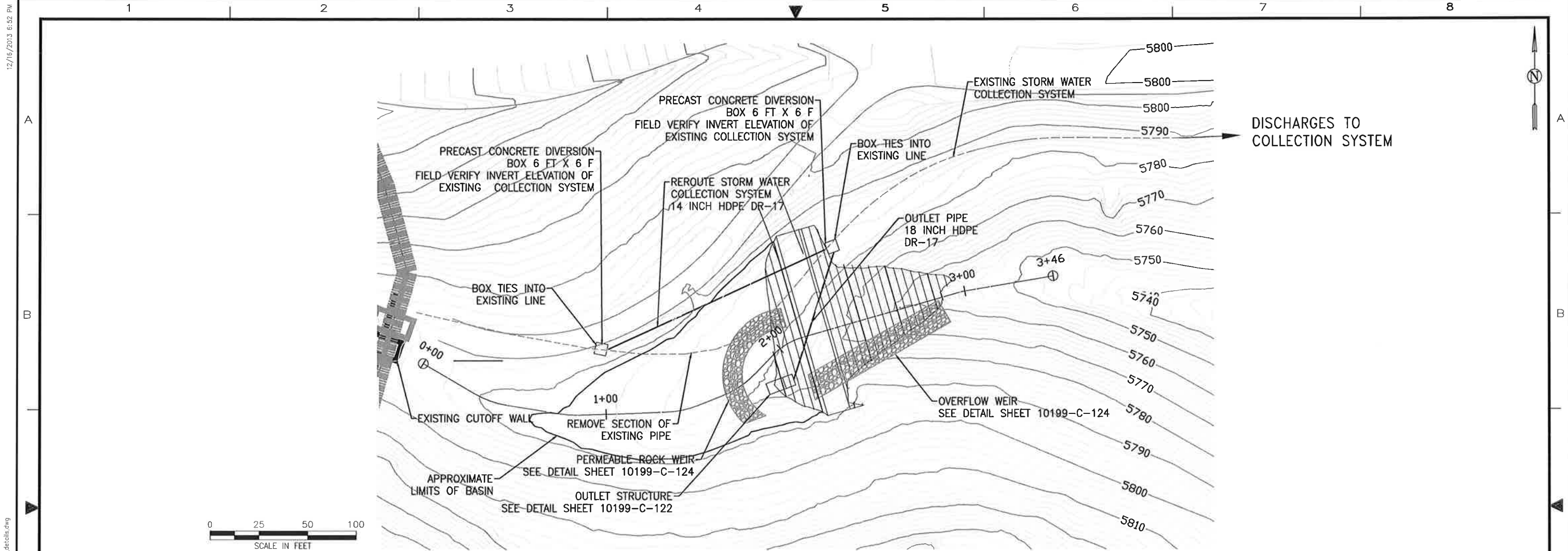
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RELEASE
FOR CONSTRUCTION

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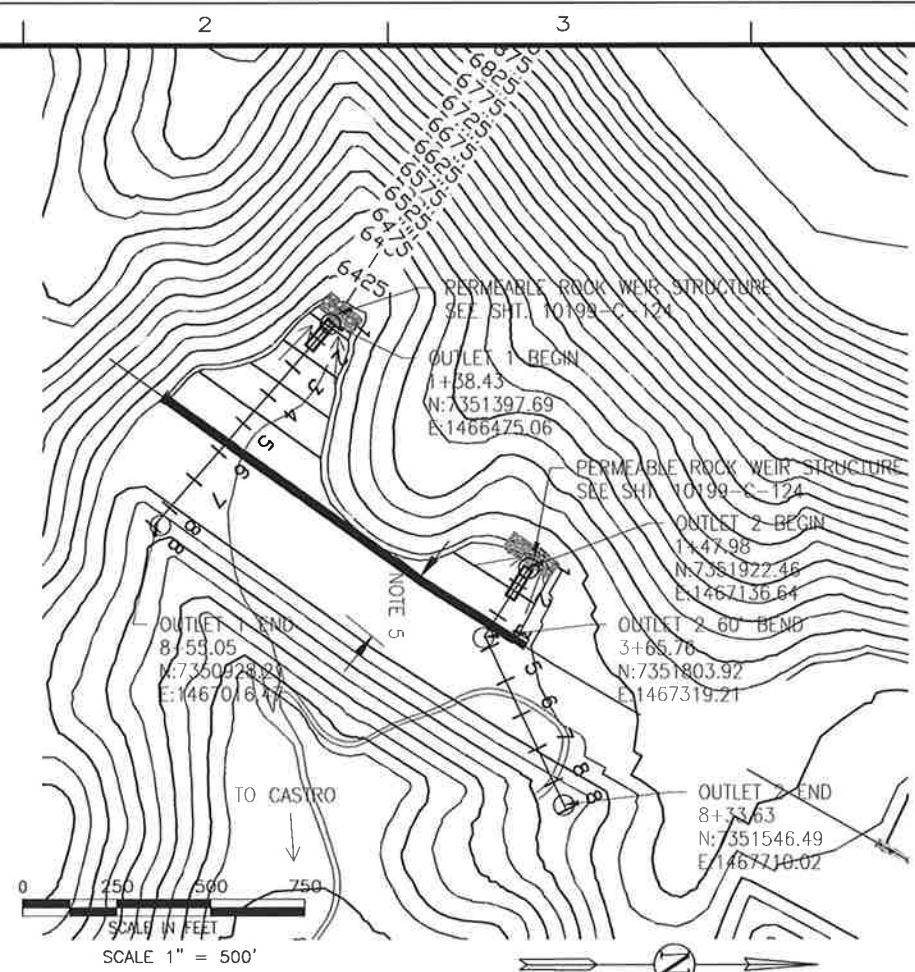
**KENNECOTT
UTAH COPPER**

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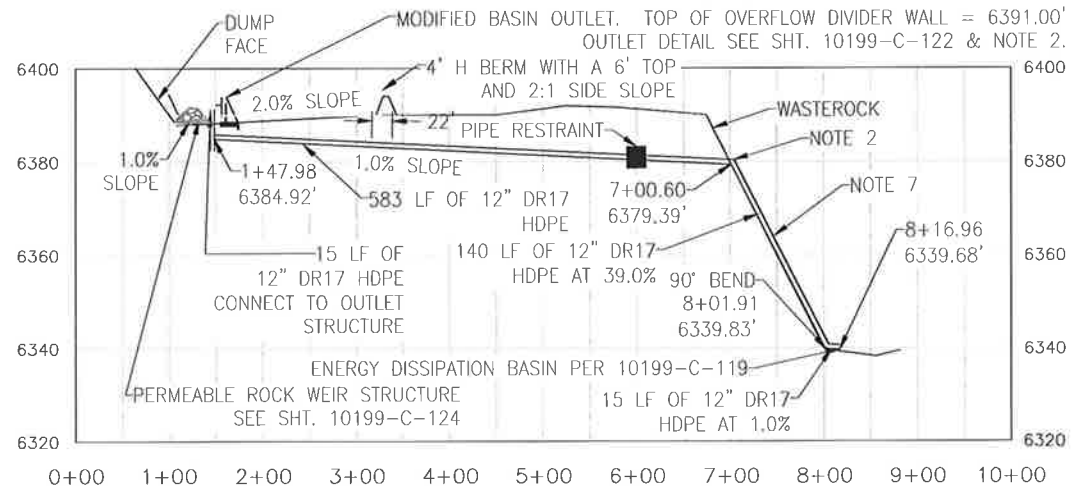
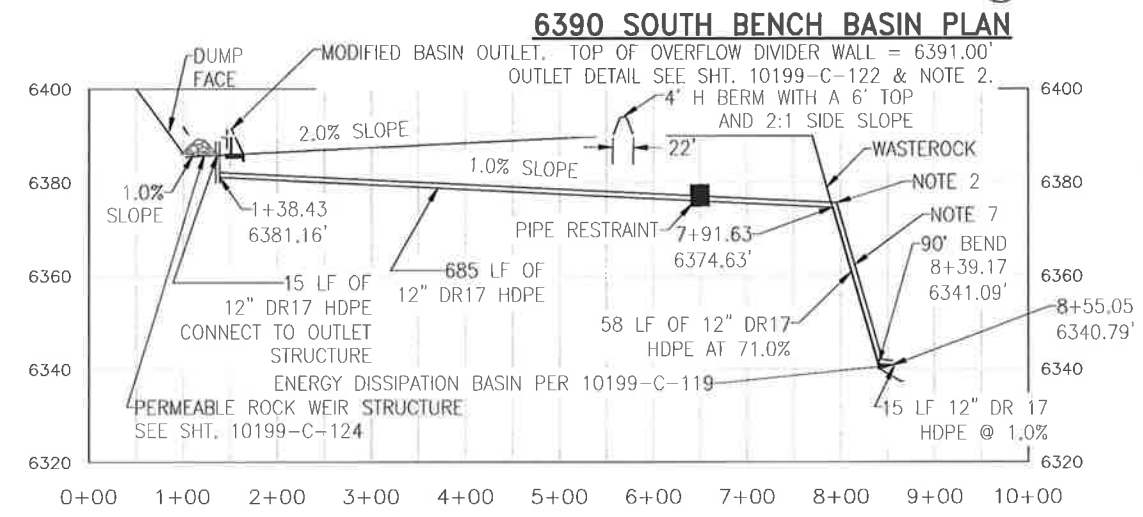
SOUTH END DRAINAGE COLLECTION SYSTEM
SAINTS REST BASIN 51
PLAN AND PROFILE
15 OF 30
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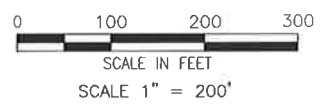
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- NOTES:
1. GRADE AREA NEAR INLET TO DRAIN.
 2. BUTT-FUSED JOINT AND SECURE CONNECTION WITH MECHANICAL JOINT
 3. SEE SPECIFICATIONS ON PIPE BEDDING.
 4. TWO 90° HDPE DR 17 BENDS ARE REQUIRED TO DIRECT FLOW TO OUTLET PIPE.
 5. NORTH BENCH TO BE CONSTRUCTED BY RTKC.
 6. DRAIN PIPE TO BE LAID ON SURFACE AND DIRECTED TO NEAREST DRAINAGE.
 7. ALL PIPE TO BE BUTT-FUSED.
 8. SEE SHEET 10199-C-103 FOR DOWNDRAIN LAYOUT



OUTLET 1 PLAN - 6390 SOUTH BENCH BASIN



PIPE OUTLET 2 PROFILE - 6390 SOUTH BENCH BASIN

RELEASE FOR CONSTRUCTION

URS

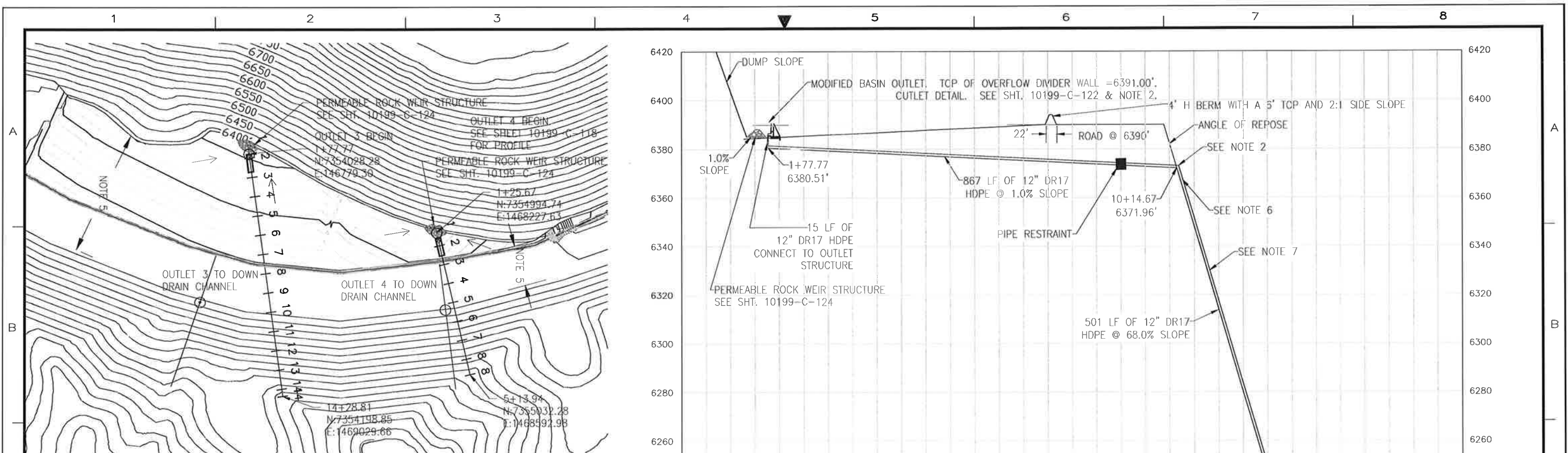
KENNECOTT UTAH COPPER

SOUTH END DRAINAGE COLLECTION SYSTEM
SOUTH BENCH BASIN PLAN AND
OUTLET 1 & 2 PROFILE 18 OF 30

AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

APPROVAL	DATE	SCALE	DATE

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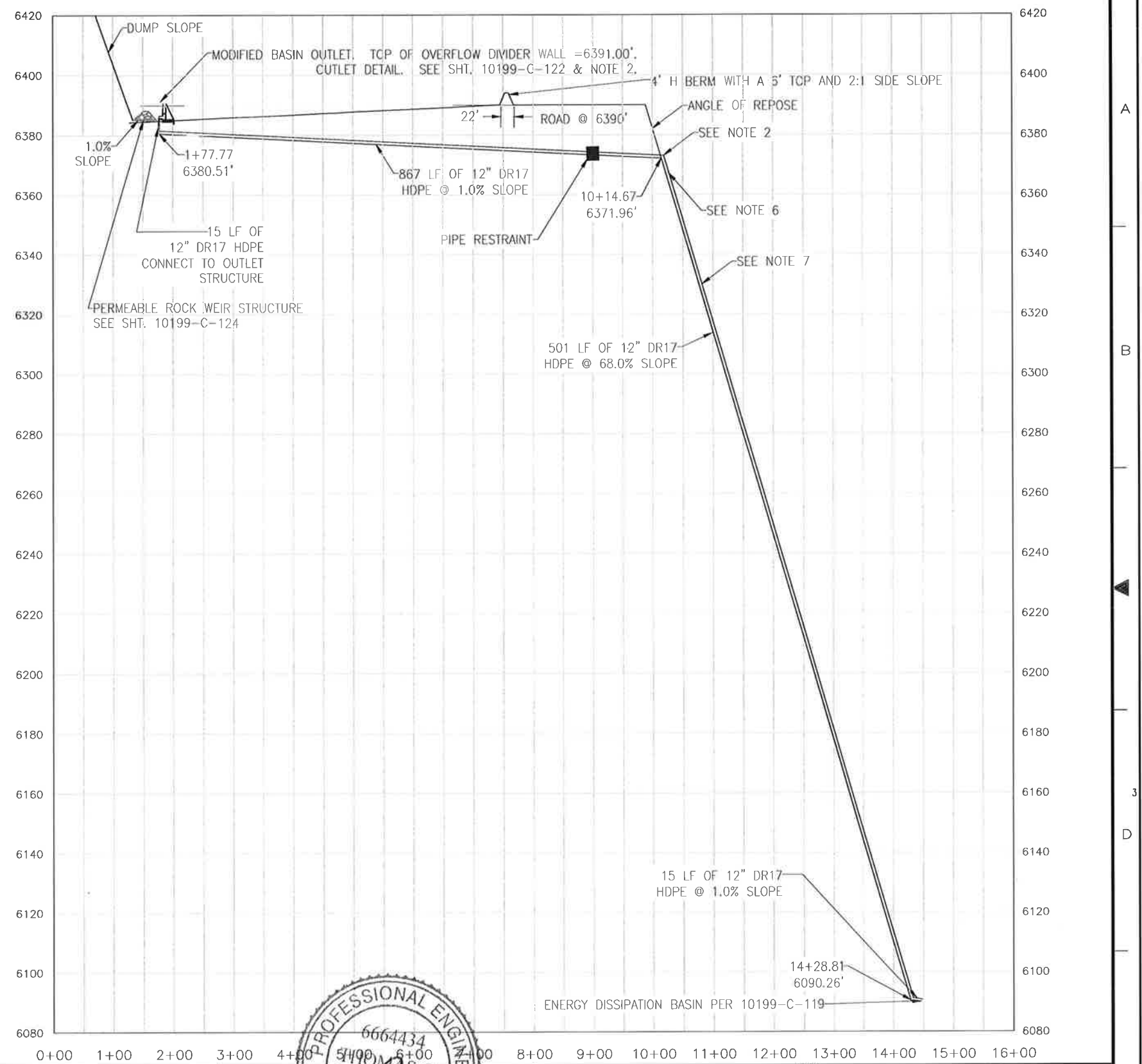


OUTLETS 3 & 4 PLAN - 6390 NORTH BENCH BASIN

- NOTES:
1. GRADE AREA NEAR INLET TO DRAIN.
 2. BUTT-FUSED JOINT AND SECURE CONNECTION WITH MECHANICAL JOINT
 3. SEE SPECIFICATIONS ON PIPE BEDDING.
 4. TWO 90° HDPE DR 17 BENDS ARE REQUIRED TO DIRECT FLOW TO OUTLET PIPE.
 5. NORTH BENCH TO BE CONSTRUCTED BY RTKC.
 6. DRAIN PIPE TO BE LAID ON SURFACE AND DIRECTED TO NEAREST DRAINAGE.
 7. ALL PIPE TO BE BUTT-FUSED.
 8. SEE SHEET 10199-C-103 FOR DOWNDRAIN LAYOUT



SCALE 1" = 200'



PIPE OUTLET 3 PROFILE - 6390 NORTH BENCH BASIN



RELEASE FOR CONSTRUCTION

URS

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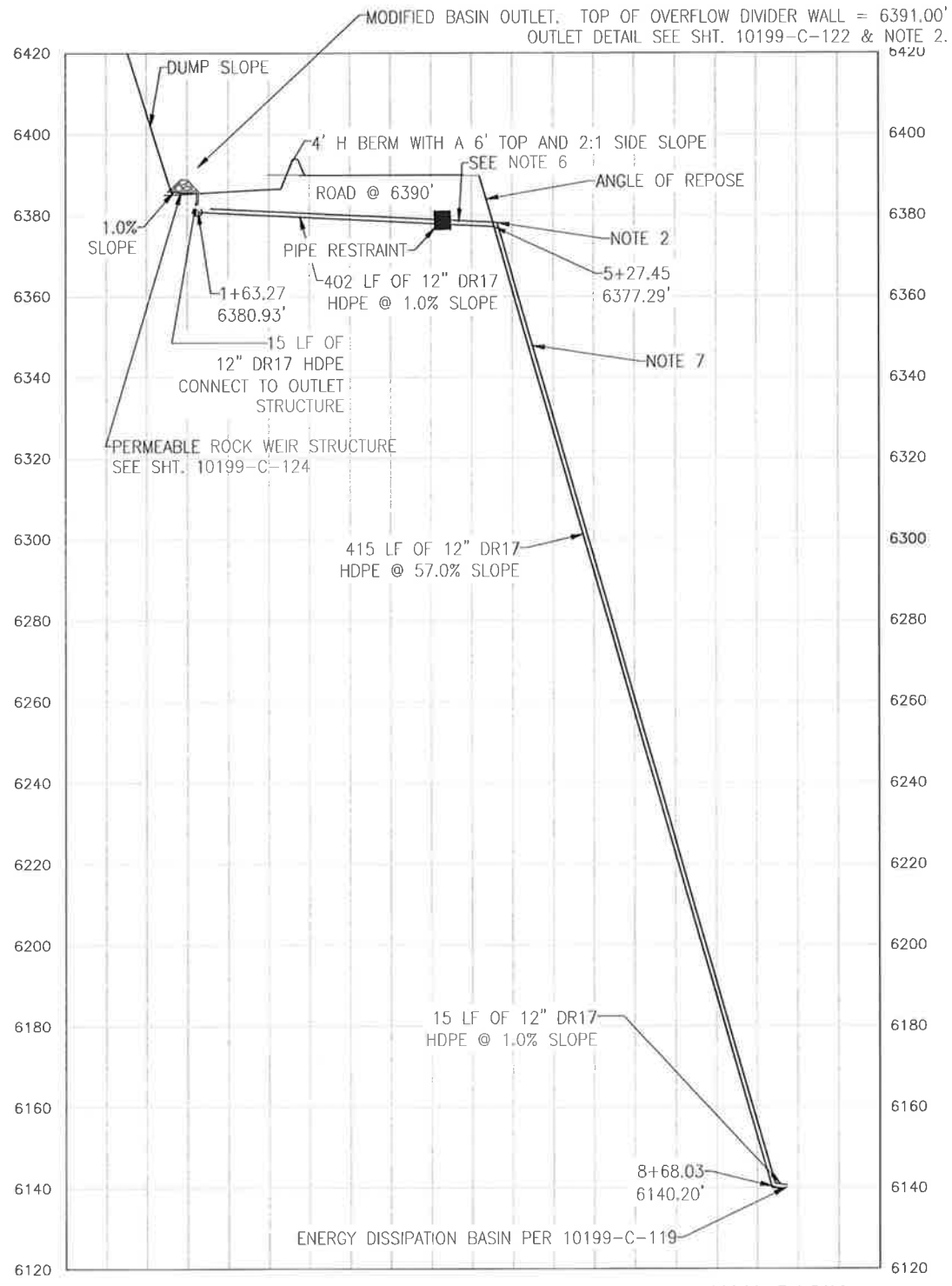
SOUTH END DRAINAGE COLLECTION SYSTEM
NORTH BENCH BASIN PLAN AND
OUTLET 3 PROFILE

18 OF 30

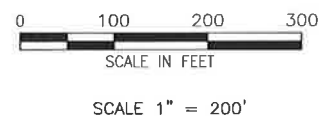
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		PROJECT MANAGER	



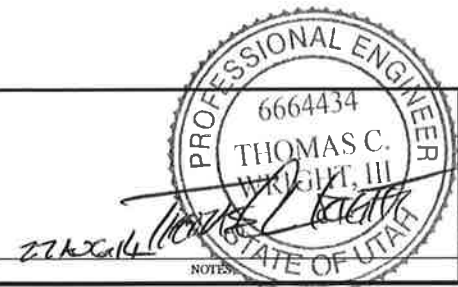
- NOTES:
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 2. BUTT-FUSED JOINT AND SECURE CONNECTION WITH MECHANICAL JOINT
 3. SEE SPECIFICATIONS ON PIPE BEDDING.
 4. TWO 90° HDPE DR 17 BENDS ARE REQUIRED TO DIRECT FLOW TO OUTLET PIPE.
 5. NORTH BENCH TO BE CONSTRUCTED BY RTKC.
 6. DRAIN PIPE TO BE LAID ON SURFACE AND DIRECTED TO NEAREST DRAINAGE.
 7. ALL PIPE TO BE BUTT-FUSED.
 8. SEE SHEET 10199-C-103 FOR DOWNDRAIN LAYOUT



PIPE OUTLET 4 PROFILE - 6390 NORTH BENCH BASIN

AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

RELEASE FOR CONSTRUCTION



APPROVAL	DATE	SCALE:	DATE
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		PROJECT MANAGER	

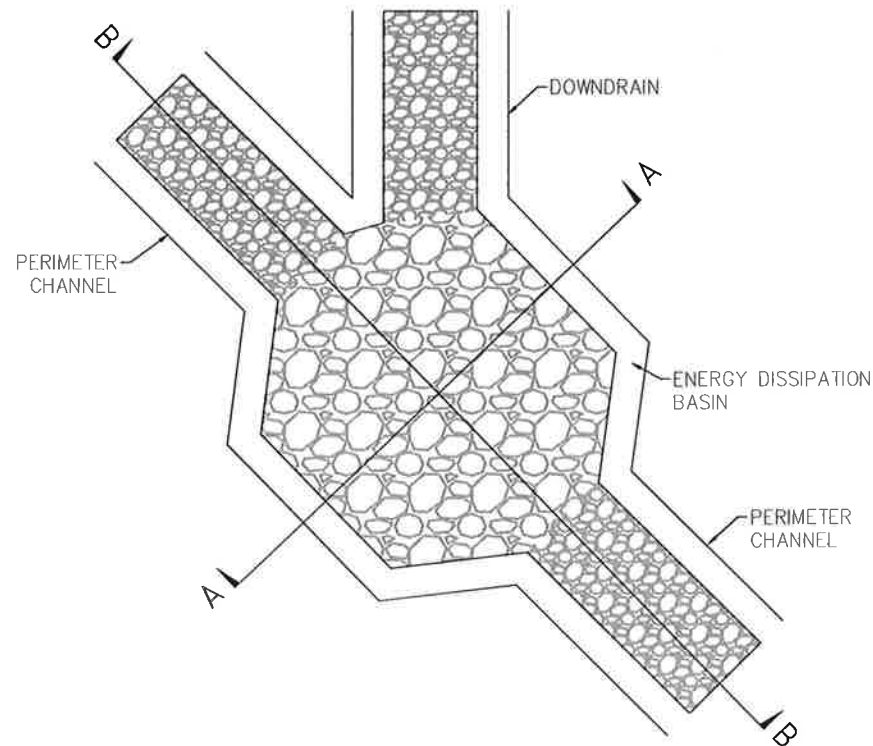
KENNECOTT UTAH COPPER

SOUTH END DRAINAGE COLLECTION SYSTEM
NORTH BENCH BASIN
OUTLET 4 PROFILE 19 OF 30

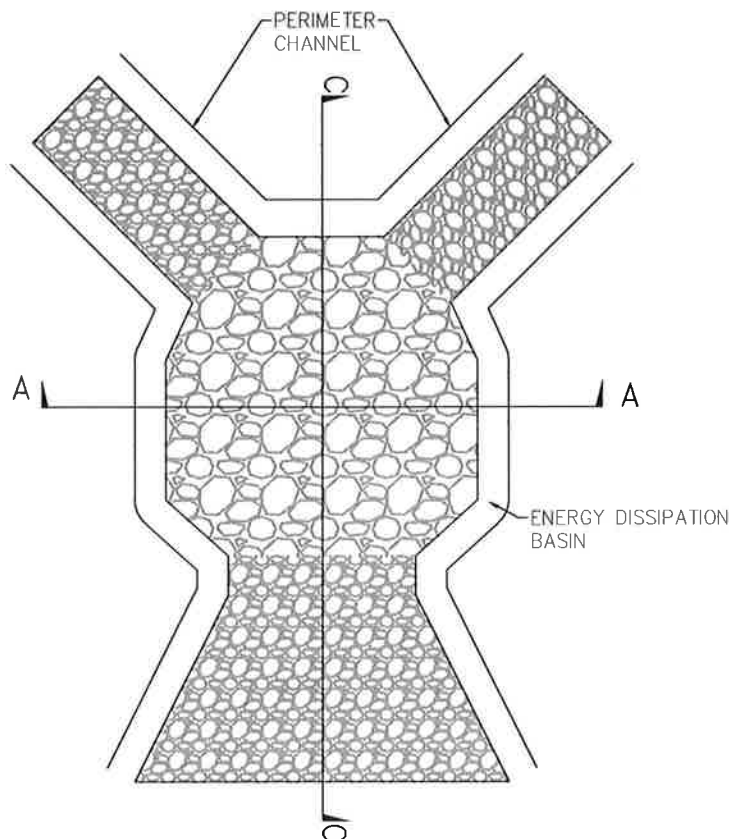
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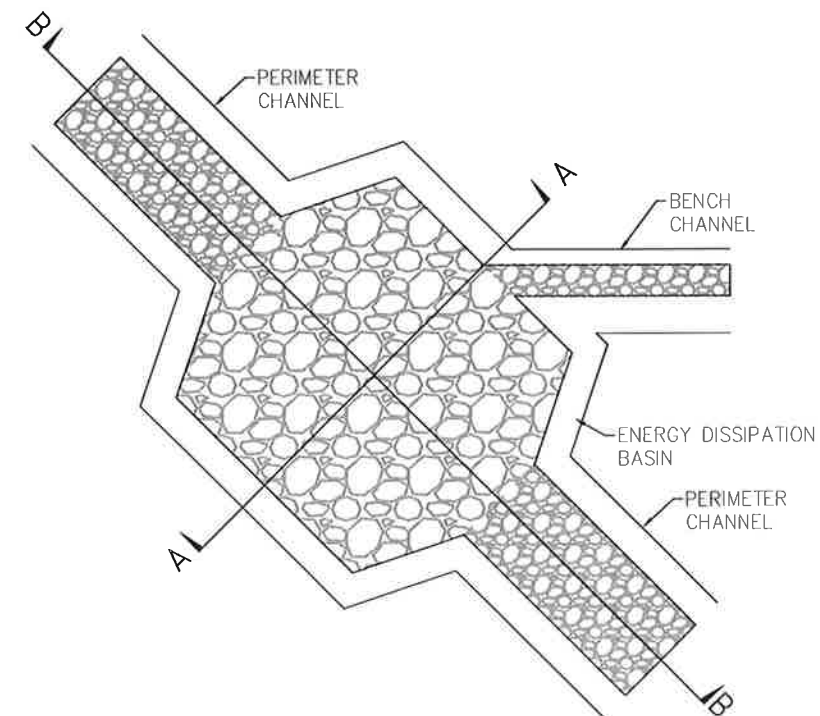
a:\projects\kenecott\2014 south end waste rock closure\05_analysis and engineering\phase 10\cad\sheet\10199-c-121 more bench drain details, transition to rock chute.dwg



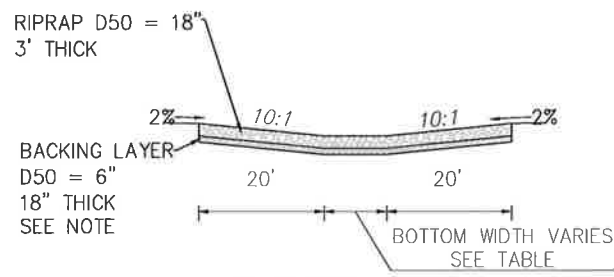
**PLAN VIEW
DOWNDRAIN TO PERIMETER
CHANNEL**



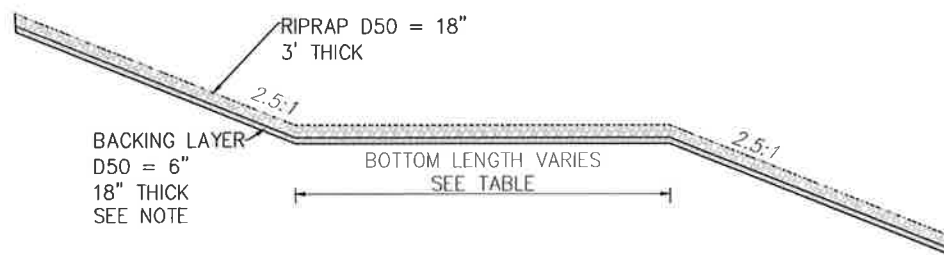
**PLAN VIEW
PERIMETER CHANNEL TO
ENERGY DISSIPATION BASIN**



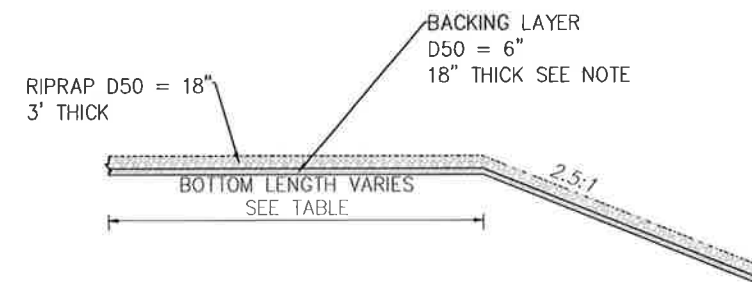
**PLAN VIEW
BENCH CHANNEL TO
PERIMETER CHANNEL**



SECTION A-A'



SECTION B-B'

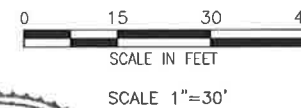


SECTION C-C'

NOTES:

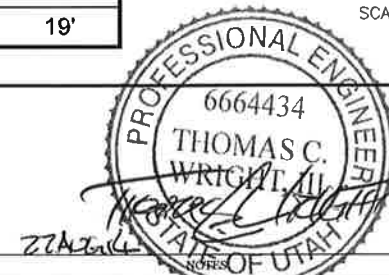
BACKING LAYER SHALL CONSIST OF 6" D50 WITH NO LESS THAN 30 PERCENT PASSING 3-INCH SIEVE AND NO MORE THAN 10 PERCENT PASSING NO. 4 SIEVE.

LIFT	BASIN	
	BOTTOM WIDTH	BOTTOM LENGTH
1	16'	22'
2	16'	21'
3	16'	19'



AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

**RELEASE
FOR CONSTRUCTION**



URS

APPROVAL	DATE	SCALE:	DATE

**KENECOTT
UTAH COPPER**

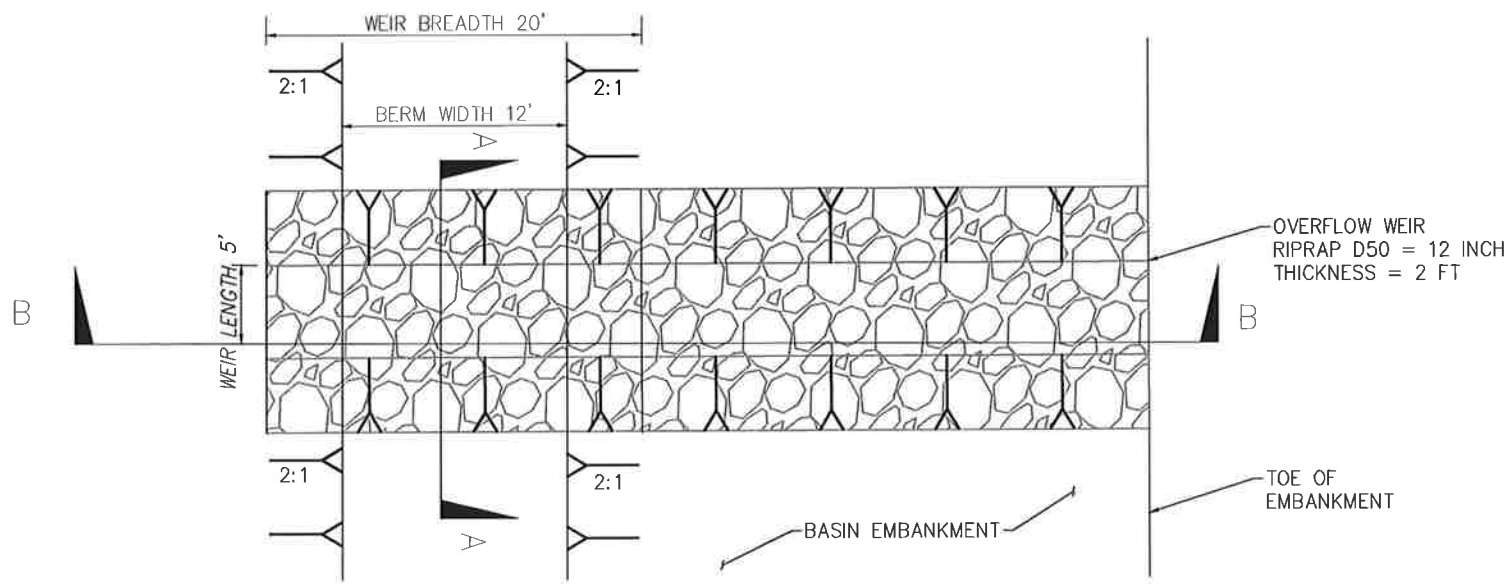
SOUTH END DRAINAGE COLLECTION SYSTEM
TRANSITION TO
PERIMETER CHANNEL

22 OF 30

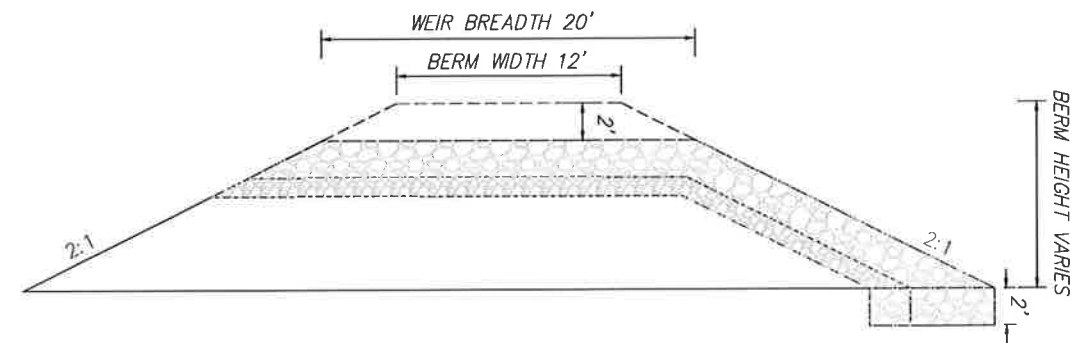
Job No. _____ Dwg. No. **10199-C-121** REV. _____

12/16/2013 6:52 PM

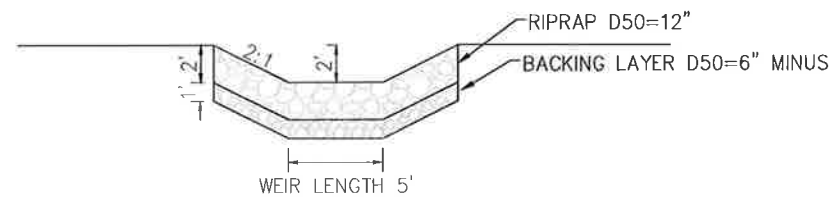
c:\projects\kenecott\2014 south end water rock closure\05_analysis and engineering\chase\cadd\chase\10199-c-124 basin details.dwg



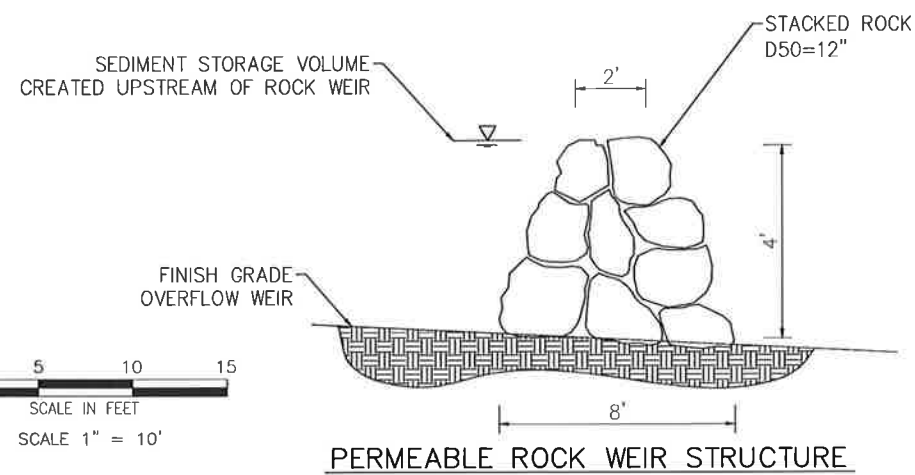
DETENTION BASIN OVERFLOW WEIR STRUCTURE
PLAN VIEW



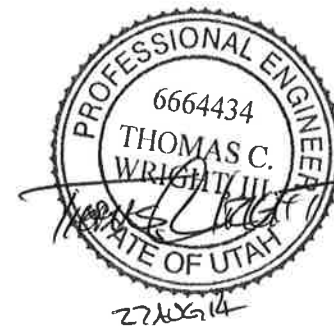
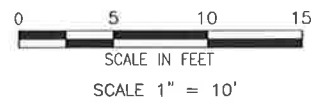
DETENTION BASIN WEIR STRUCTURE
SECTION BB



DETENTION BASIN WEIR STRUCTURE
SECTION AA



PERMEABLE ROCK WEIR STRUCTURE



NOTES
1. EMBANKMENT CONSTRUCTION SUBJECT
TO BE APPROVED BY RTKC REPRESENTATIVE.

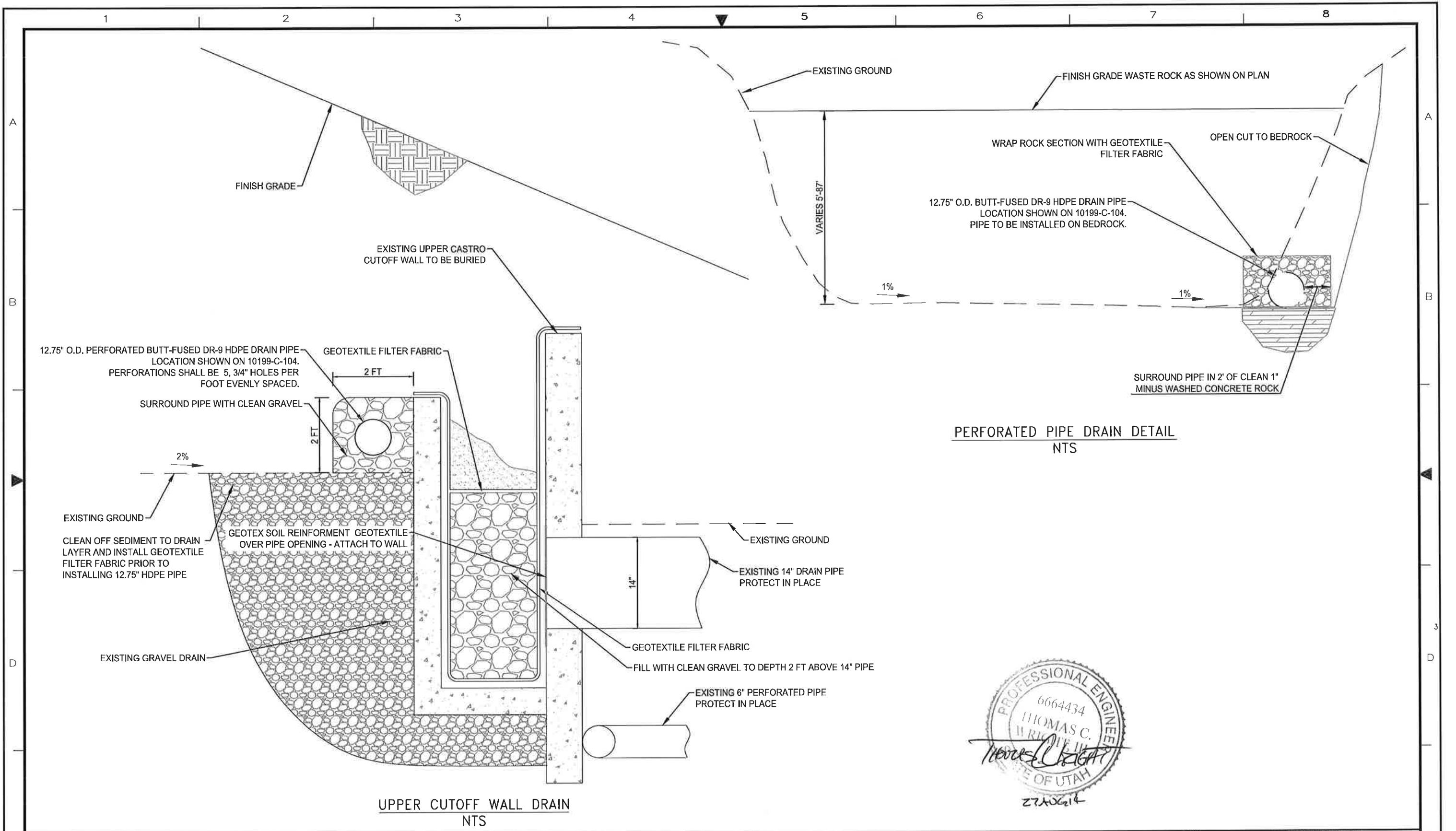
AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

RELEASE
FOR CONSTRUCTION

URS			
APPROVAL	DATE	SCALE:	DATE:

KENNECOTT UTAH COPPER	
SOUTH END DRAINAGE COLLECTION SYSTEM BASIN DETAILS	
Job No.	Dwg. No. 10199-C-124 REV.

25 OF 30



PERFORATED PIPE DRAIN DETAIL
NTS

UPPER CUTOFF WALL DRAIN
NTS



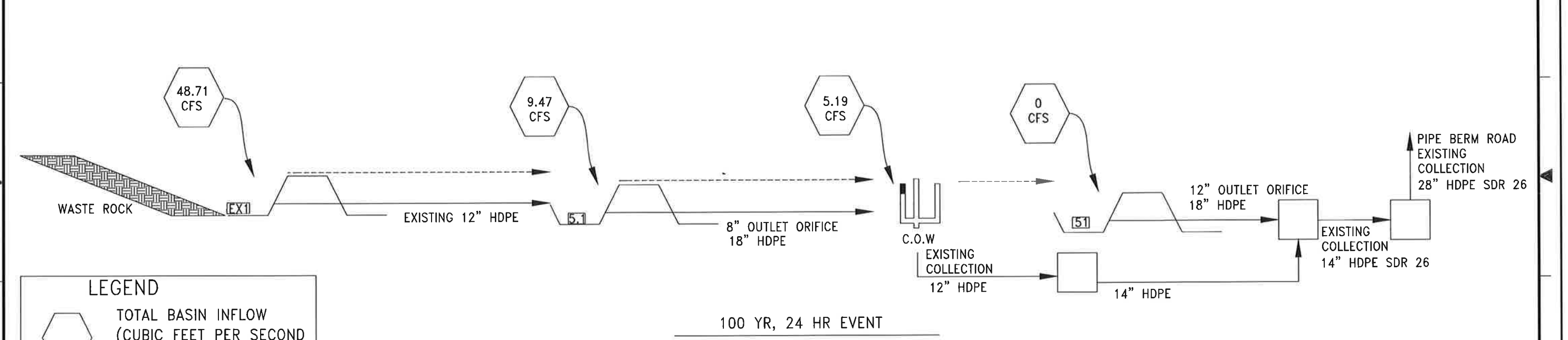
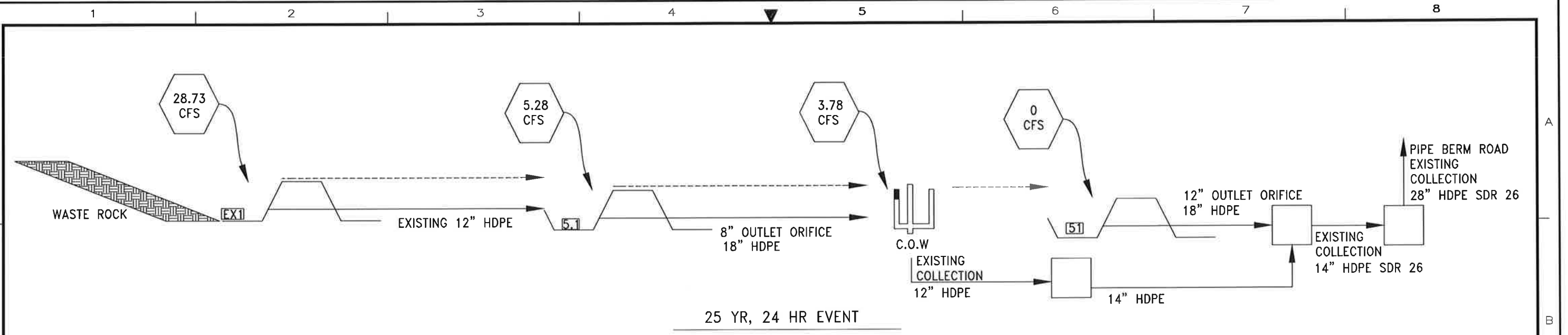
RELEASE
FOR CONSTRUCTION

URS			
APPROVAL	DATE	SCALE:	DATE
		DESIGNED BY	
		DRAWN BY	
		CHECKED BY	
		PROJECT ENGINEER	
		PROJECT MANAGER	

KENNECOTT UTAH COPPER	
SOUTH END DRAINAGE COLLECTION SYSTEM CASTRO CUTOFF WALL DRAIN DETAILS	
Job No.	Dwg. No. 10199-C-126 REV.

AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

12/16/2013 6:52 PM
 a:\projects\kenecott\2014_south_end_waste_rock_closure\05_analysis_and_engineering\phase_1a\cad\sheets\10199-c-113_114 - saints_rest_basin_details.dwg



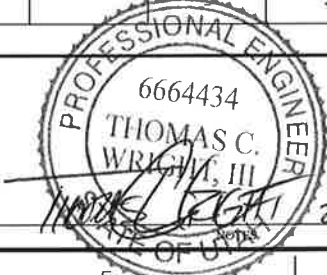
LEGEND

- TOTAL BASIN INFLOW (CUBIC FEET PER SECOND CFS)
- DIVERSION BOX
- OUTLET PIPE (NEW UNLESS OTHERWISE INDICATED)
- OVERFLOW
- BASIN ID
- CUT-OFF WALL (C.O.W.)

Saints Rest						NOAA 25 yr 24 hr Storm					NOAA 100 yr 24 hr Storm				
Total Watershed (acres)	Basin ID	Depth (ft)	Volume (ac.-ft)	Outlet Orifice Diameter (in)	Outlet Length (feet)	Storm Depth (in)	Runoff (cfs)	Peak Inflow (cfs)	Peak Outflow (cfs)	25-yr Overflow (cfs)	Storm Depth (in)	Runoff (cfs)	Peak Inflow (cfs)	Peak Outflow (cfs)	100-yr Overflow (cfs)
83	EX1	15	9.76	12	70	2.82	28.73	28.73	4.04	-	3.45	48.71	48.71	9.47	-
	5.1	12	2.07	8	65			5.28	3.78	-			9.47	5.19	-
	Cutoff Wall	-	-	12	-			3.78	3.78	-			5.19	5.19	-
	51	10	0.33	12	50			-	-	-			-	-	-

AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER

RELEASE FOR CONSTRUCTION
 NOTES

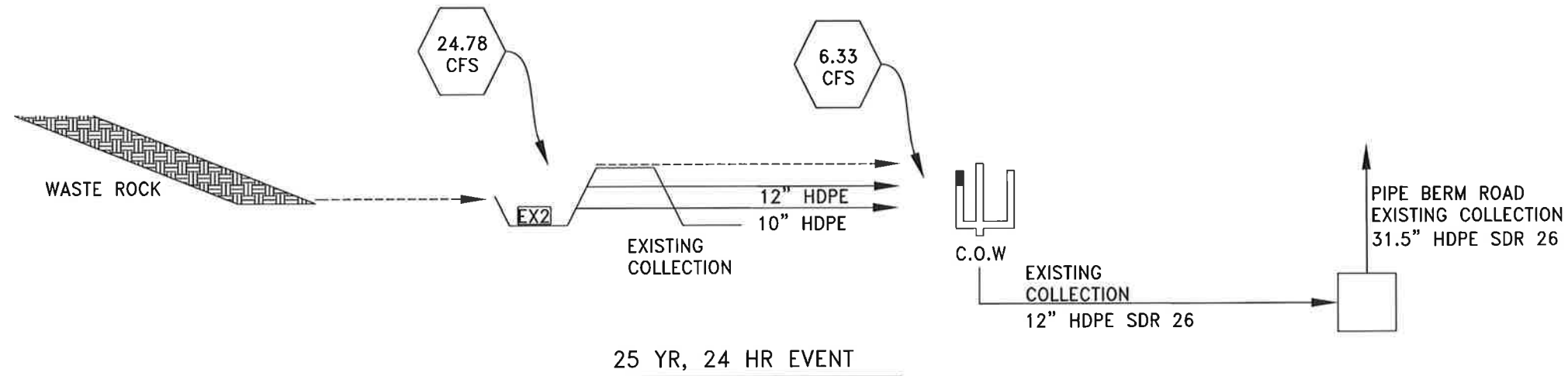


URS

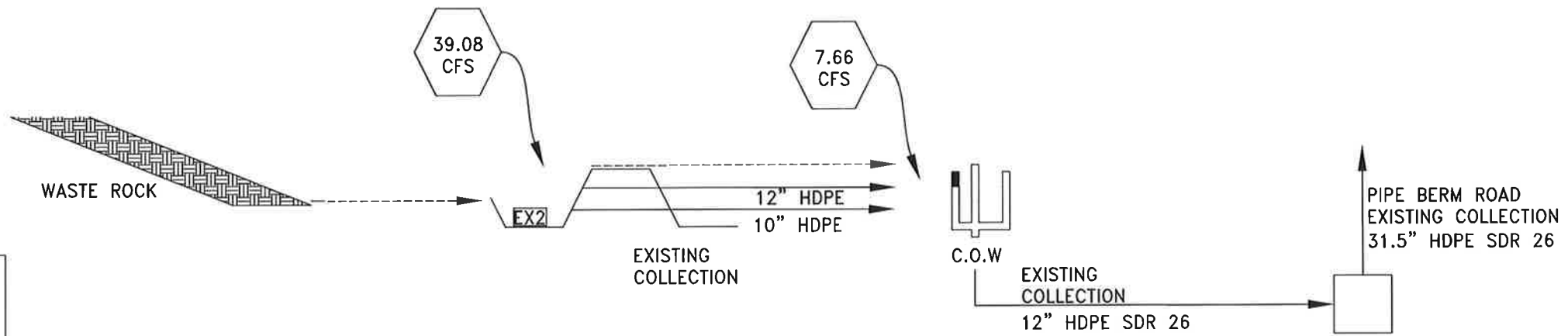
APPROVAL	DATE	SCALE	DATE

KENNECOTT UTAH COPPER
 SOUTH END DRAINAGE COLLECTION SYSTEM
 SAINTS REST FLOW DIAGRAM
 Job No. _____ Dwg. No. **10199-C-133** REV. _____

12/16/2013 8:52 PM



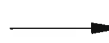
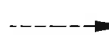
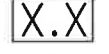
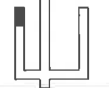


25 YR, 24 HR EVENT



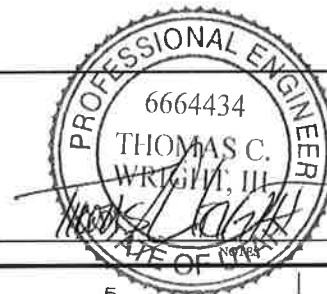
100 YR, 24 HR EVENT

LEGEND

-  TOTAL BASIN INFLOW (CUBIC FEET PER SECOND CFS)
-  DIVERSION BOX
-  OUTLET PIPE (NEW UNLESS OTHERWISE INDICATED)
-  OVERFLOW
-  BASIN ID
-  CUT-OFF WALL (C.O.W.)

Yosemite						NOAA 25 yr 24 hr Storm					NOAA 100 yr 24 hr Storm				
Total Watershed (acres)	Basin ID	Depth (ft)	Volume (ac.-ft)	Outlet Orifice Diameter (in)	Outlet Length (feet)	Storm Depth (in)	Runoff (cfs)	Peak Inflow (cfs)	Peak Outflow (cfs)	25-yr Overflow (cfs)	Storm Depth (in)	Runoff (cfs)	Peak Inflow (cfs)	Peak Outflow (cfs)	100-yr Overflow (cfs)
50	EX2	10	4.49	12	40	2.82	24.78	24.78	6.33	-	3.45	39.08	39.08	7.66	-
	Cutoff Wall	-	-	12	-			6.33	6.27	-			7.66	7.58	-

RELEASE FOR CONSTRUCTION



URS

**KENNECOTT
UTAH COPPER**

SOUTH END DRAINAGE COLLECTION SYSTEM
YOSEMITE
FLOW DIAGRAM

30 OF 30

Job No. _____ Dwg. No. **10199-C-134** REV. _____

AREA	NO.	DATE	REVISION	BY	CHK	APP	REFERENCE DRAWINGS	NUMBER	NOTES

YOSEMITE GRADING PLAN

10199-C-115