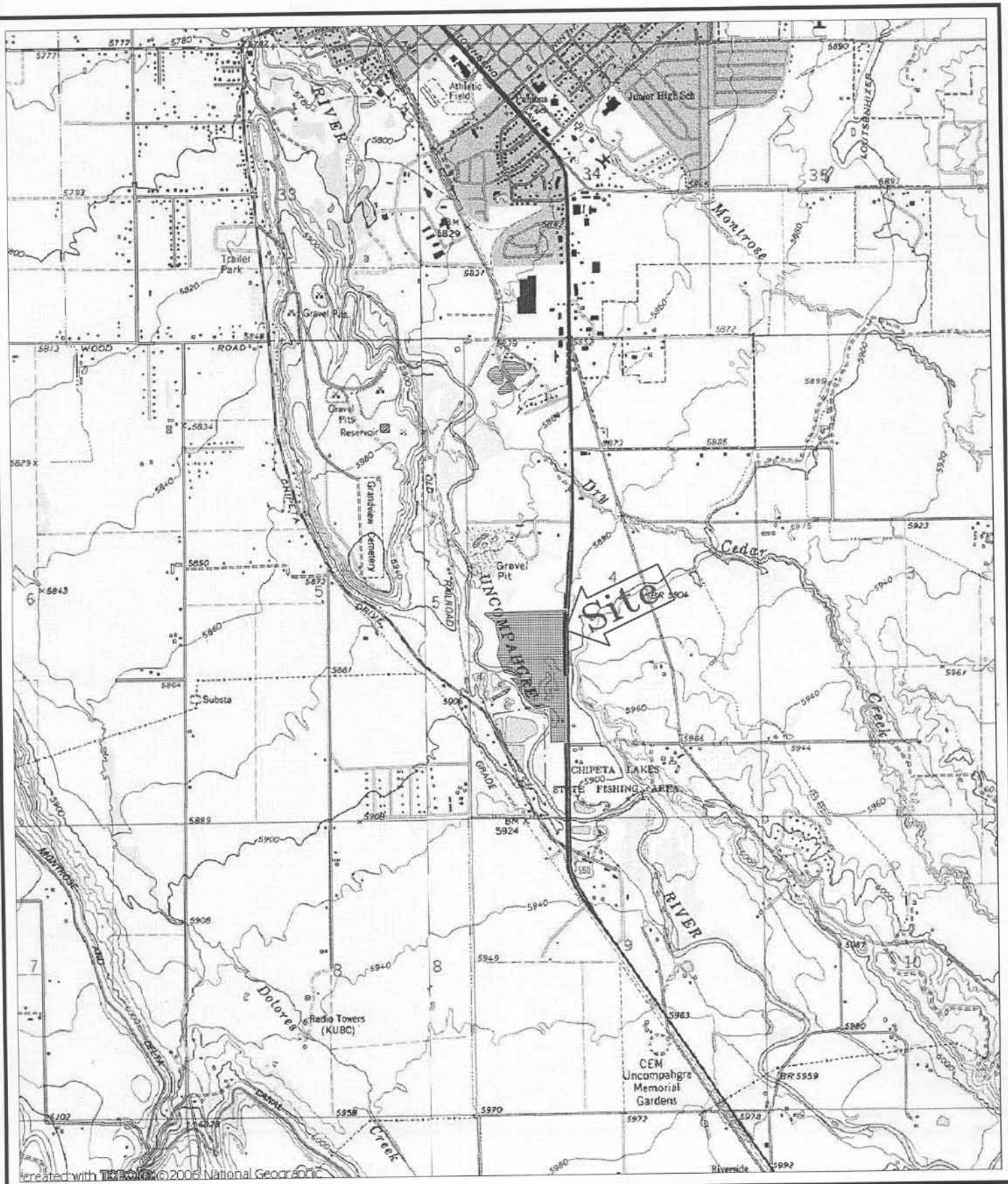


Map Source: USGS Montrose Quadrangle Colorado – Montrose Co. 7.5 Minute Series 1962 Photorevised 1973

0 2000 Feet

Approximate Scale

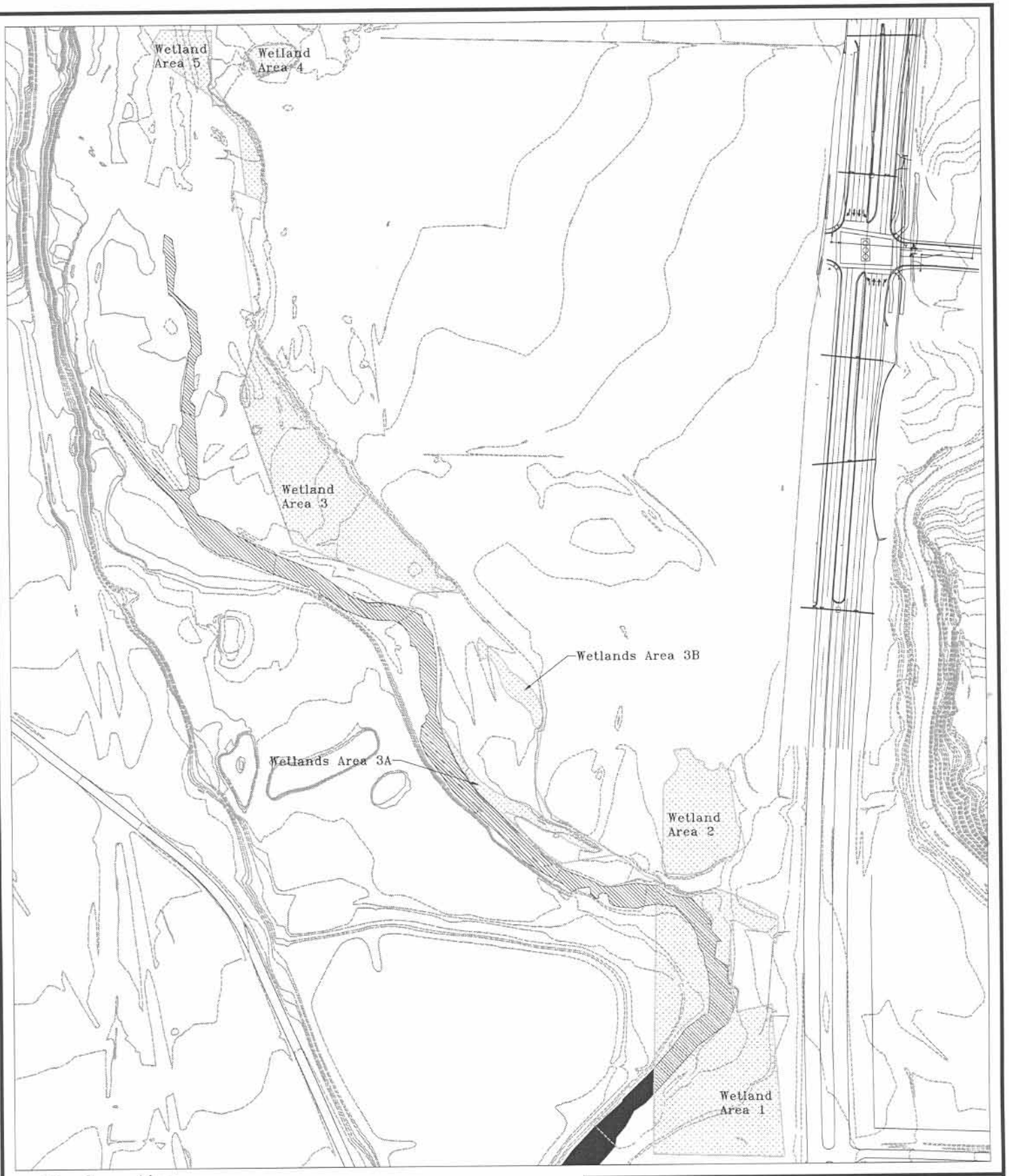
Walsh

Environmental Scientists and Engineers, LLC

Vicinity Map

River Landing Developement

Job 6712-010	Date 11/06	Figure 1



Explanation

Wetlands Areas

Jurisdictional Waters of the U.S.

0 300 Feet

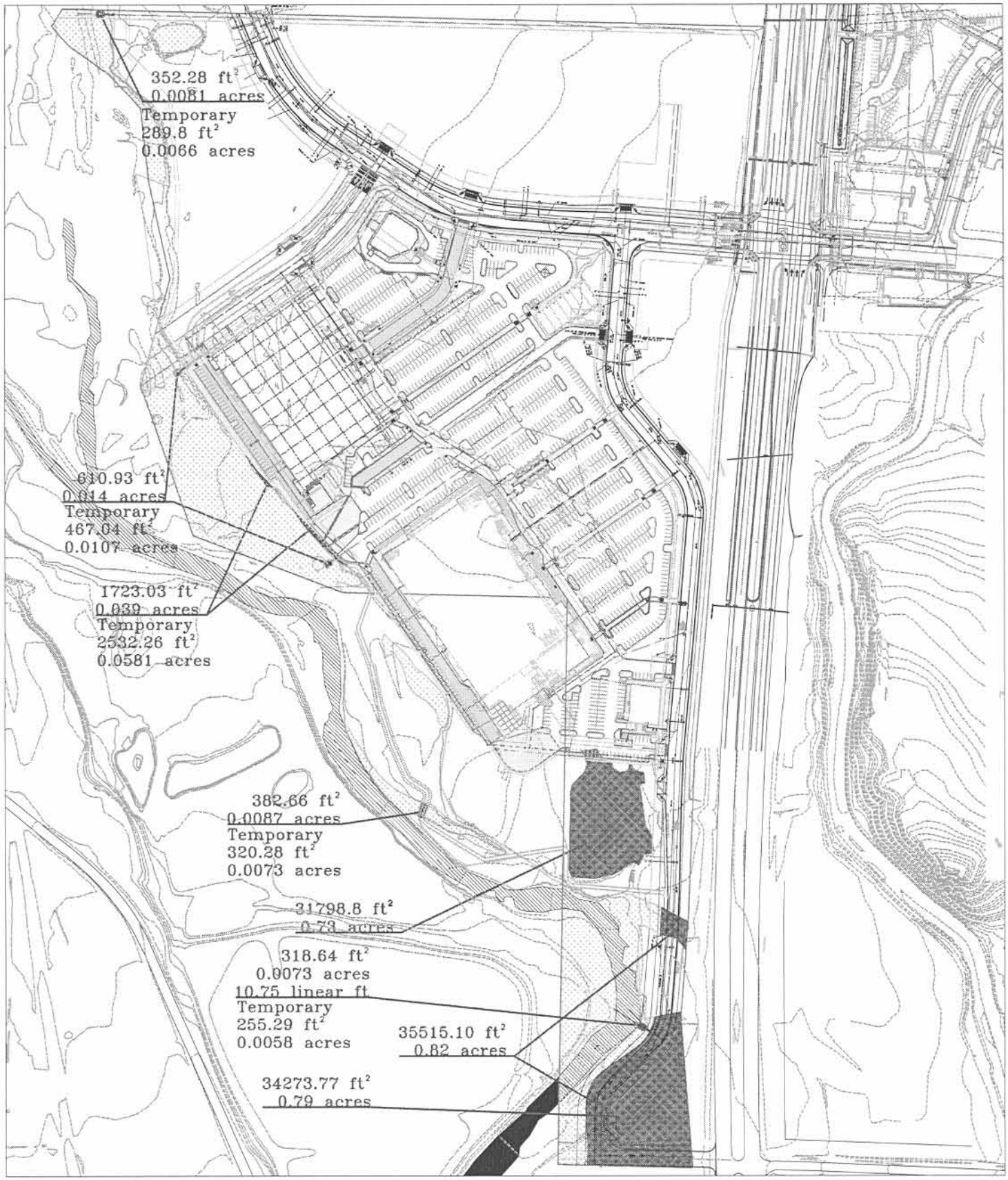
Approximate Scale

Walsh

Environmental Scientists and Engineers, LLC

River Landing
Wetland Site Map
Montrose, Colorado

Job 6712-010	Date 11/06	Figure 2



Explanation

- Permanently Impacted Wetlands
- Wetlands Areas
- Jurisdictional Waters of the U.S.
- Recreation Path

0 300 Feet

Approximate Scale

Walsh

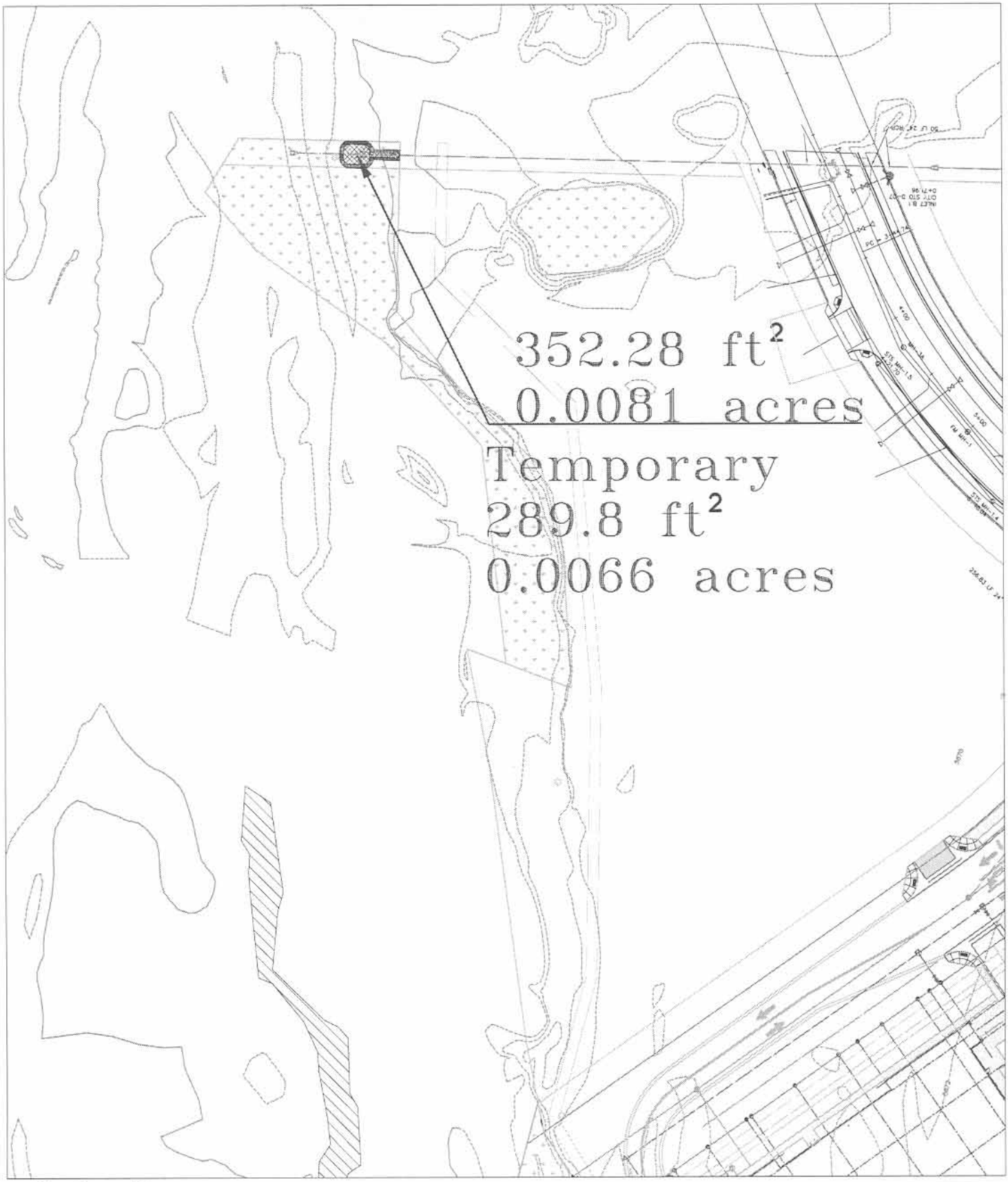
Environmental Scientists and Engineers, LLC

River Landing

Site Map

Montrose, Colorado

Job 6712-010	Date 11/06	Figure 3



Explanation

- Permanently Impacted Wetlands
- Temporarily Impacted Wetlands
- Jurisdictional Waters of the U.S.
- Wetlands Areas
- Recreation Path

0 150 Feet

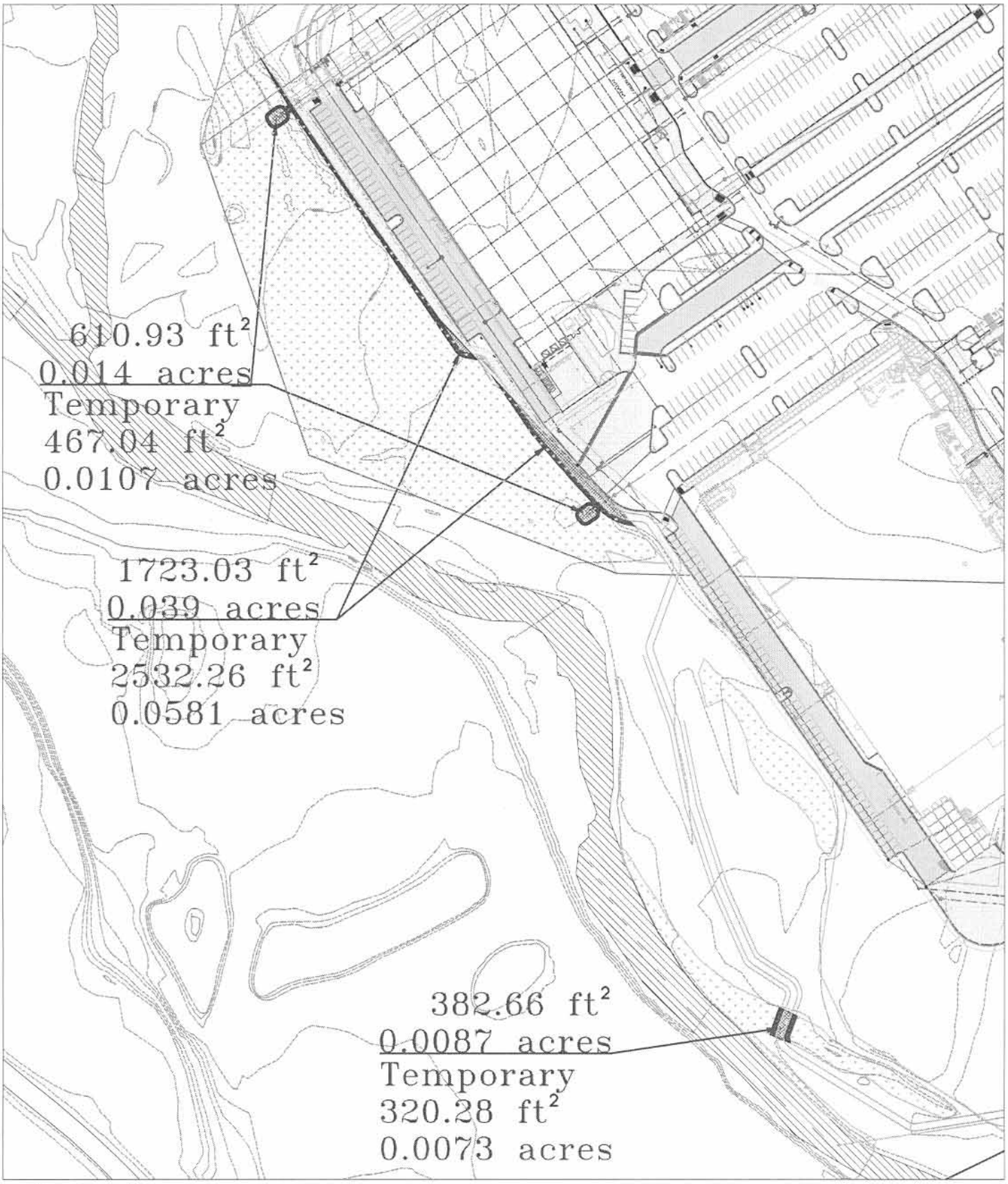
Approximate Scale

Walsh

Environmental Scientists and Engineers, LLC

River Landing
Site Plan North Detail
Montrose, Colorado

Job 6712-010	Date 11/06	Figure 4



Explanation

- Permanently Impacted Wetlands
- Temporarily Impacted Wetlands
- Jurisdictional Waters of the U.S.
- Wetlands Areas
- Recreation Path

0 150 Feet

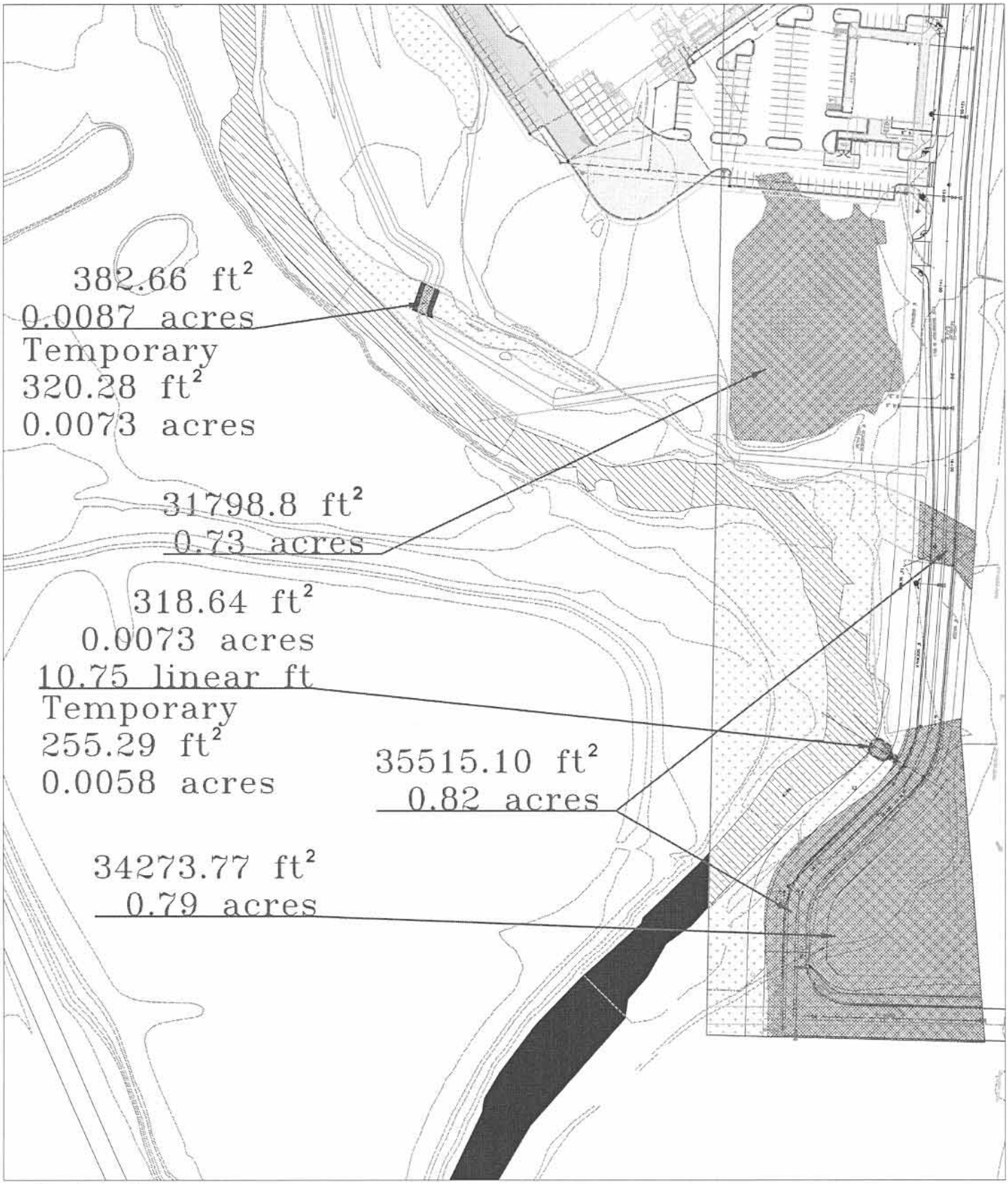
Approximate Scale

Walsh

Environmental Scientists and Engineers, LLC

River Landing
Site Plan Middle Detail
Montrose, Colorado

Job 6712-010	Date 11/06	Figure 5



Explanation

- Permanently Impacted Wetlands
- Temporarily Impacted Wetlands
- Jurisdictional Waters of the U.S.
- Wetlands Areas
- Recreation Path

0 150 Feet

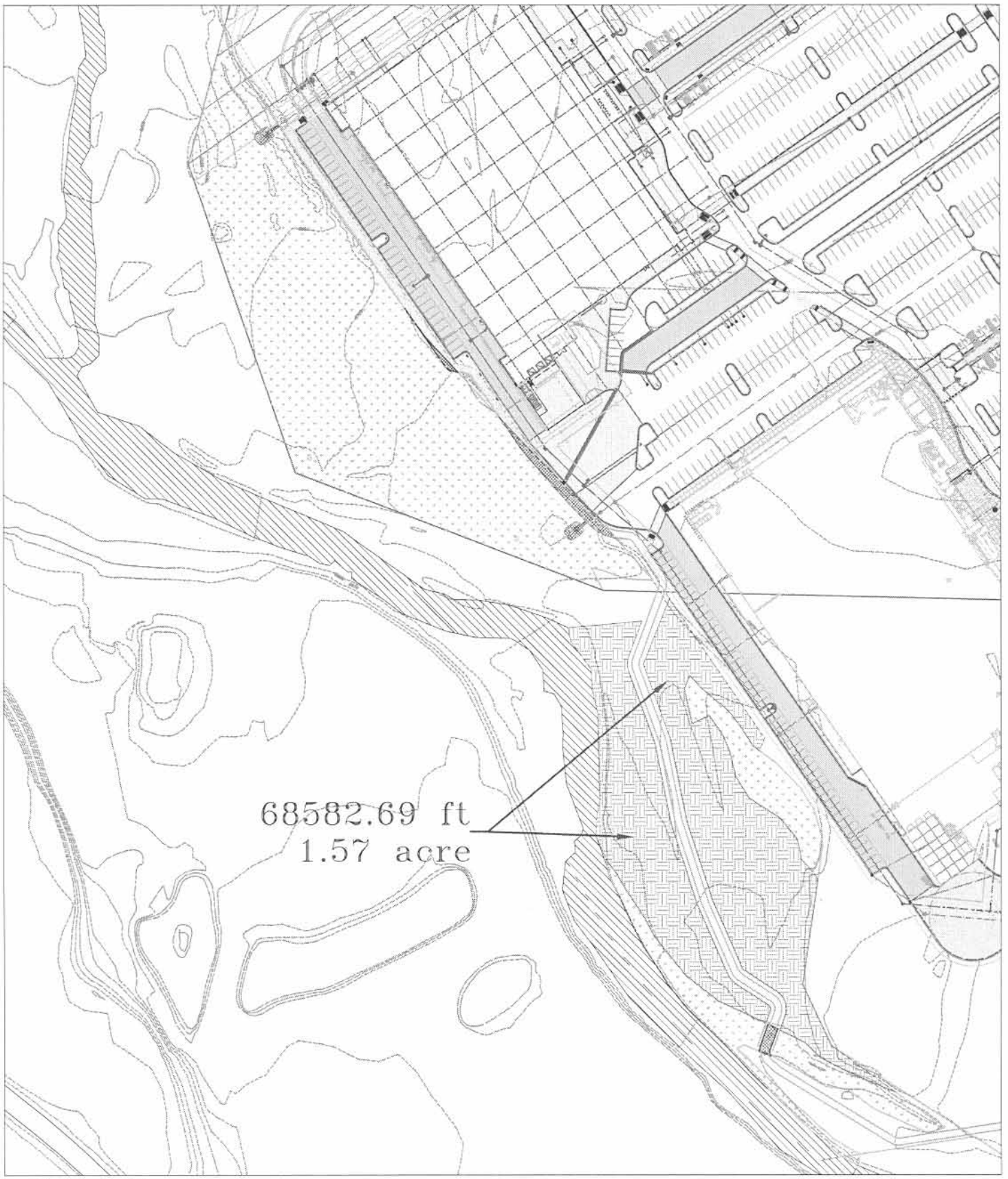
Approximate Scale

Walsh

Environmental Scientists and Engineers, LLC

River Landing
Site Plan South Detail
Montrose, Colorado

Job 6712-010	Date 11/06	Figure 6



Explanation

- Permanently Impacted Wetlands
- Mitigated Wetland Area
- Jurisdictional Waters of the U.S.
- Wetlands Areas
- Recreation Path

0 150 Feet

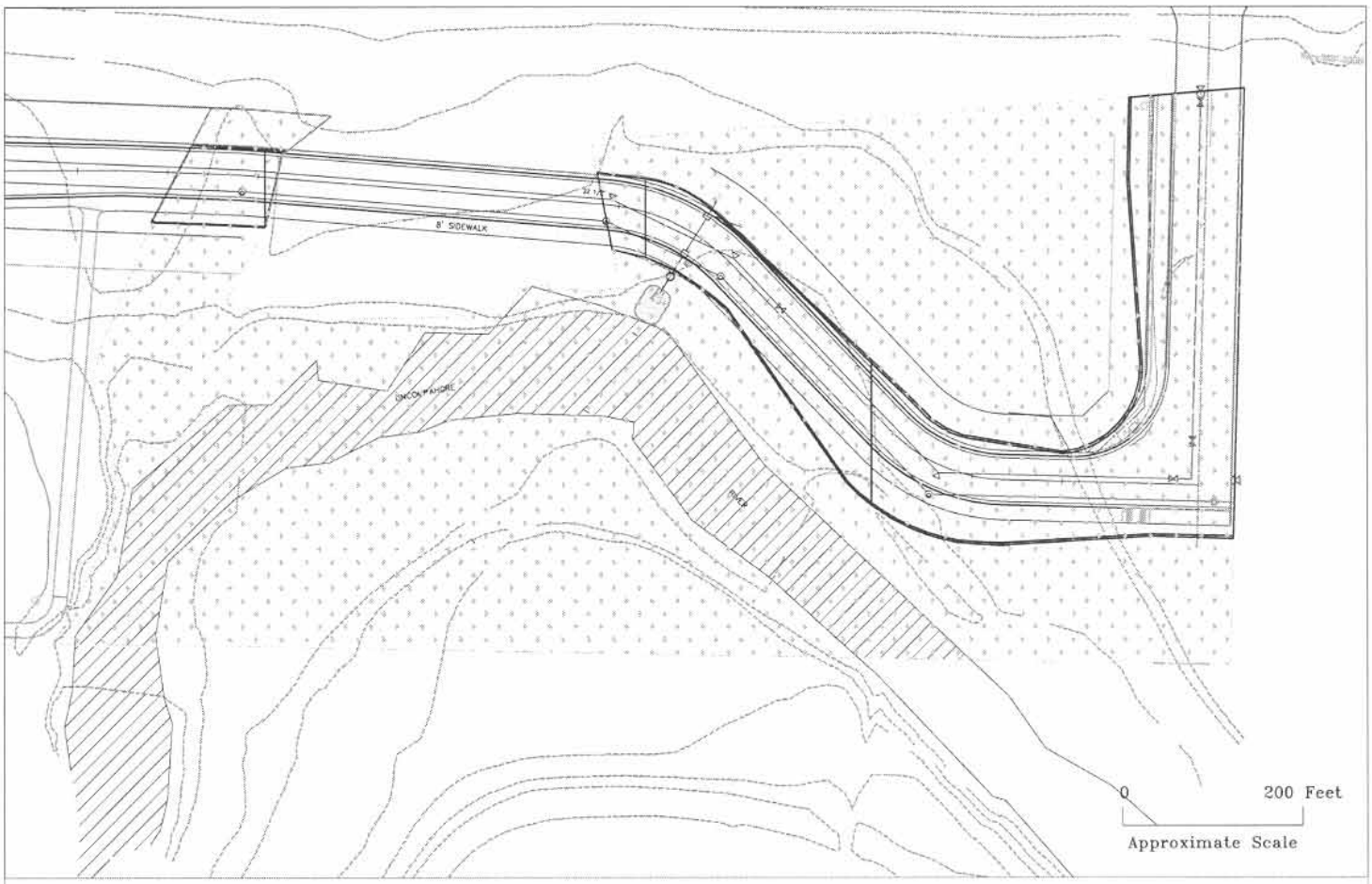
Approximate Scale

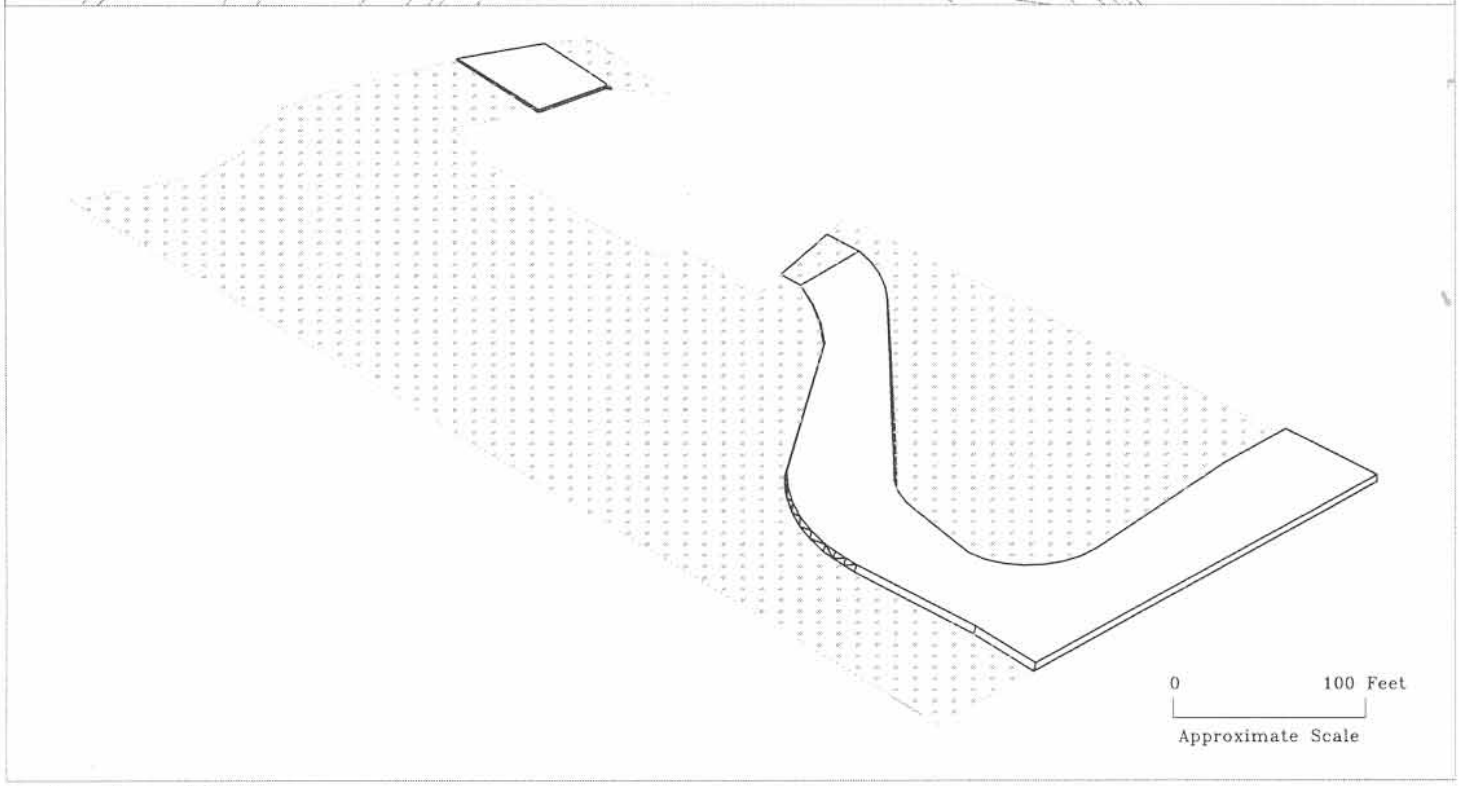
Walsh

Environmental Scientists and Engineers, LLC

River Landing
On Site Mitigation Area
Montrose, Colorado

Job 6712-010	Date 11/06	Figure 7





Explanation

Estimated Fill Needed 12758 cu. yd.

Walsh

Environmental Scientists and Engineers, LLC

River Landing
Minimum Access Fill Detail
Montrose, Colorado

Job 6712-010	Date 11/06	Detail

RIVER LANDING SITE RETAINING WALL
RIVER LANDING SUBDIVISION
MONTROSE, COLORADO

STRUCTURAL GENERAL NOTES

DESIGN LOADS

FOUNDATION DESIGN

REINFORCED CONCRETE

SHOP DRAWINGS

SPECIAL INSPECTION REQUIREMENTS

STRUCTURAL ERECTION AND BRACING REQUIREMENTS

STRUCTURAL OBSERVATION

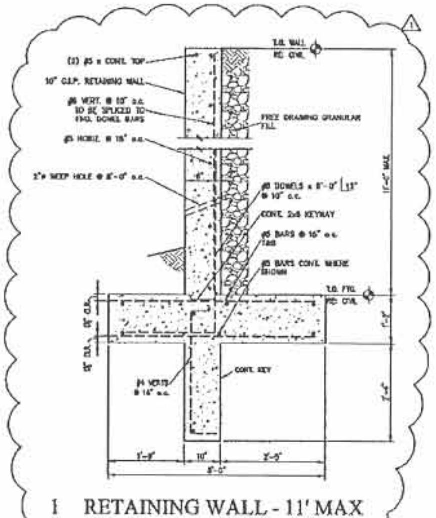
[illegible]

REBAR MARK CONVERSION			
BAR SIZE DESIGNATION		BAR DIAMETER	
U.S.	SI	in.	mm
#3	#10	.375	9.5
#4	#13	.500	12.7
#5	#16	.625	15.9
#6	#19	.750	19.1
#7	#22	.875	22.2
#8	#25	1.000	25.4
#9	#29	1.128	28.7
#10	#32	1.270	32.3
#11	#36	1.410	35.8

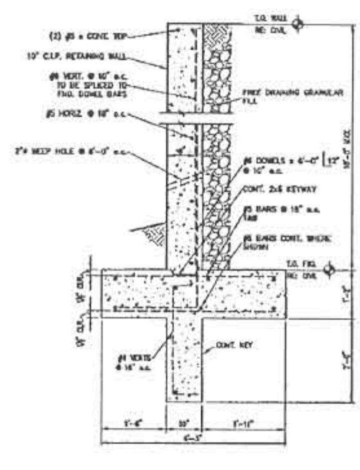
U.S. GRADE 60 – SI GRADE 420 (4)
U.S. GRADE 40 – SI GRADE 300

REBAR SPLICE LENGTHS CLASS "B" TENSION SPLICES		
BAR SIZE	SPLICE LENGTH (in.) (BOTTOM BARS)	SPLICE LENGTH (in.) (TOP BARS)
#3	22	28
#4	28	37
#5	36	48
#6	43	56
#7	62	81
#8	71	93
#9	80	104
#10	90	116
#11	100	131

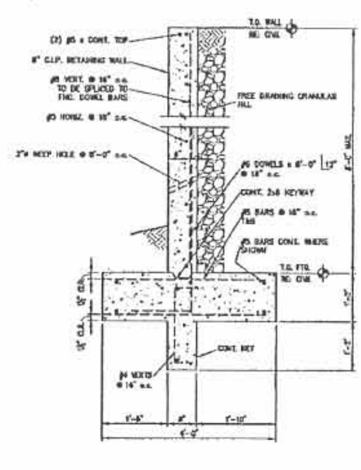
NOTES:
1. SPLICE LENGTHS ARE BASED ON f'c = 3000 psi.
2. SPLICE LENGTHS ARE 1.3 x BASIC DEVELOPMENT LENGTH.
3. LAP SPLICES ARE NOT PERMITTED FOR #14 OR #18 BARS.
4. TOP BAR LENGTHS ARE SPECIFIED FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 IN. OF FRESH CONCRETE IS CAST IN MEMBER BELOW THE SPLICE.



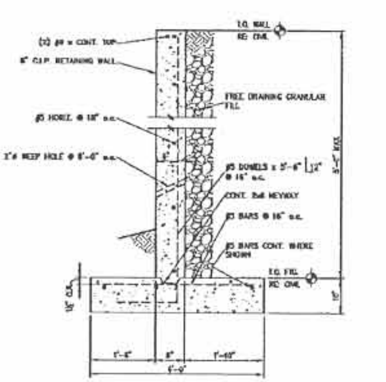
1 RETAINING WALL - 11' MAX
3/4" = 1'-0"



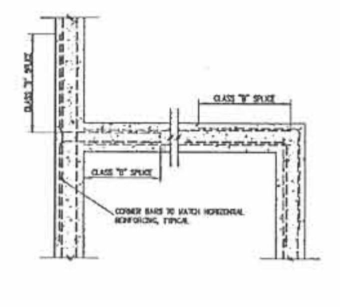
2 RETAINING WALL - 10' MAX
3/4" = 1'-0"



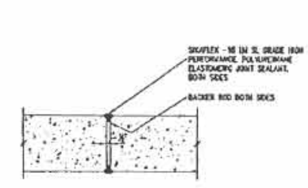
3 RETAINING WALL - 8' MAX
3/4" = 1'-0"



4 RETAINING WALL - 5' MAX
3/4" = 1'-0"



TYPICAL WALL INTERSECTIONS
5 TYPICAL DETAIL
N.T.S.



TYPICAL
VERTICAL CONTROL JOINT
–PROVIDE VERTICAL JOINTS AT 28' o.c. MAX FULL HEIGHT OF WALL

6 SECTION
1/2" = 1'-0"

RE: CIVIL DRAWINGS FOR RETAINING WALL PLAN & TOP OF FOOTING ELEVATIONS

RE: GEOTECH ENGINEER FOR OVEREXCAVATION & RE-COMPACTION REQUIREMENTS TO ACHIEVE 4000 PSI ALLOWABLE SOIL BEARING CAPACITY.

ANCHOR ENGINEERING & INSPECTION, Inc.
David A. Poe
DESIGNED BY: EAP
DRAWN BY: EAP
REVIEWED BY: DAP

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DENVER, CO 80205
(303) 783-4737
(303) 830-9133 (FAX)

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EAP	DAP

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CONST.	08/11/06
REVISION #1	10/03/06

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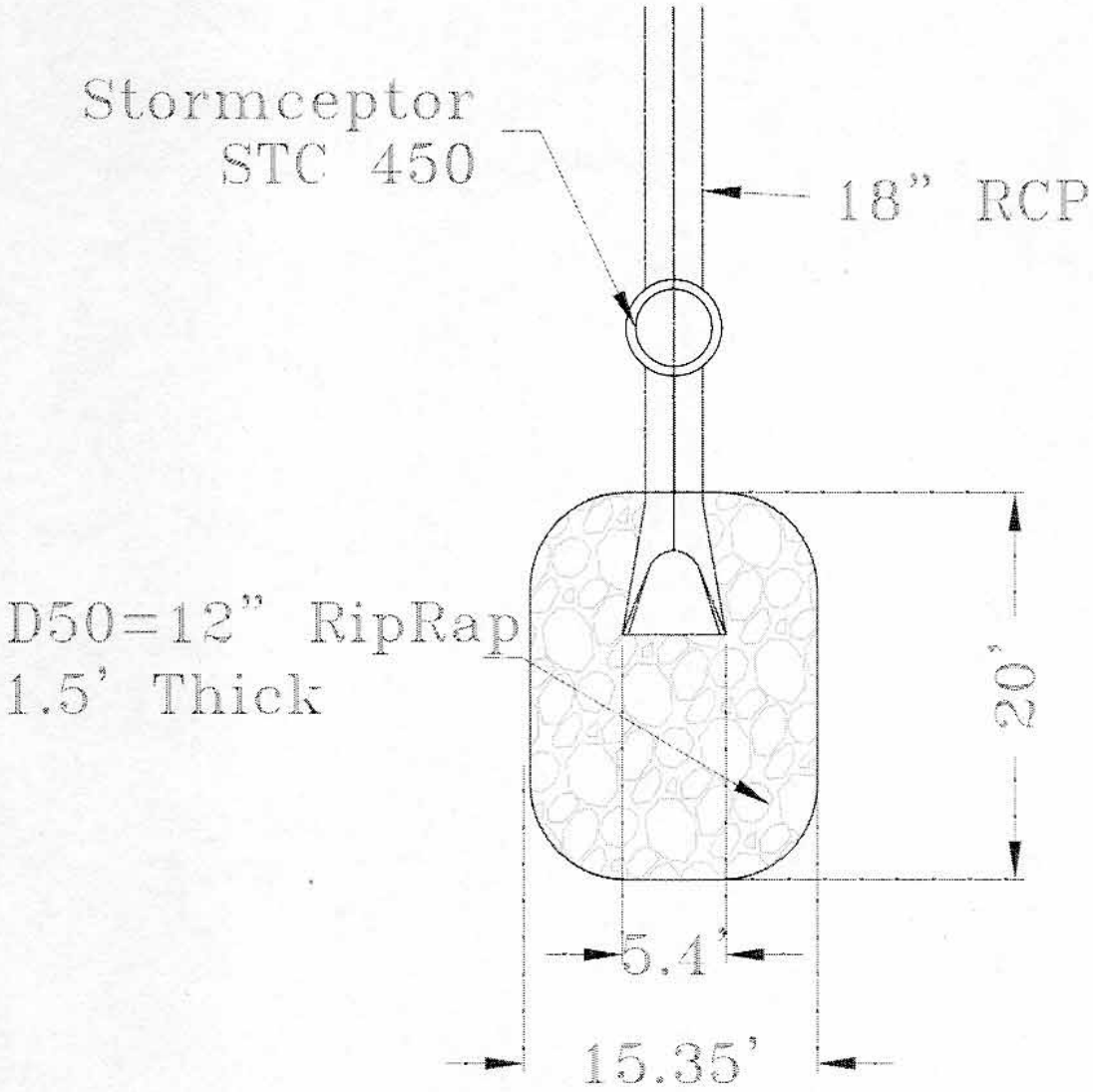

0 10 Feet

Approximate Scale

Walsh

Environmental Scientists and Engineers, LLC

River Landing
Outfall Structure Detail
Montrose, Colorado

Job 6712-010	Date 11/06	Detail