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617 661 0064 f

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Electrical Engineer

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Little Rock, Arkansas 72201
501 372 2900

Marine + Structural Engineers

MOFFATT & NICHOL ENGINEERS
1616 East Millbrook Road, Suite 160
Raleigh, North Carolina 27609
919 781 4526

Fountain

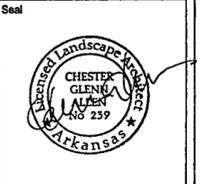
DAN EUSER WATERARCHITECTURE INC
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4176

Playground Design

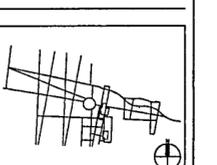
PLAY SITE ARCHITECTURE
7 Fairway Road
Acton, Massachusetts 01720
978 263 1090

Signage Design

POULIN + MORRIS
286 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332



Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	08/29/02



Job No PPA 9908
HA CPD0101

Scale AS NOTED

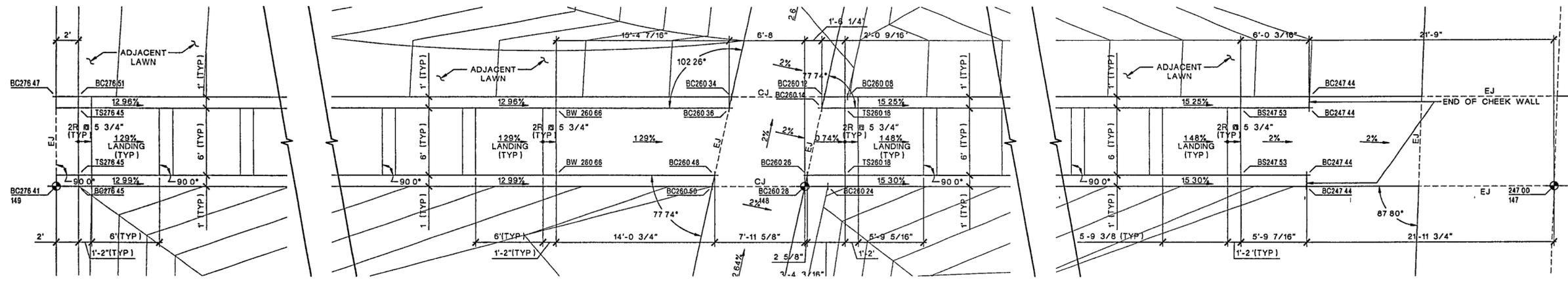
Date SEPTEMBER 27, 2002

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100% CONSTRUCTION DOCUMENTS
TERRACE STEPS 3
DETAILS

Sheet No.

L515

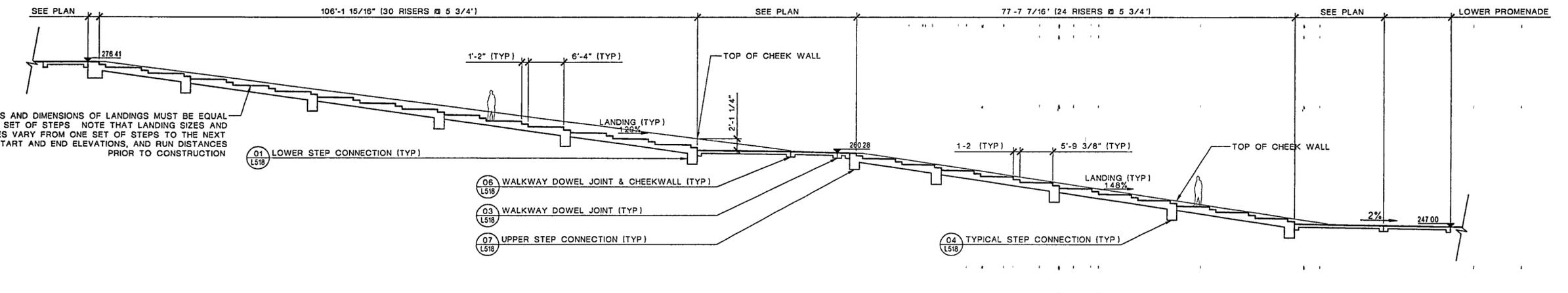
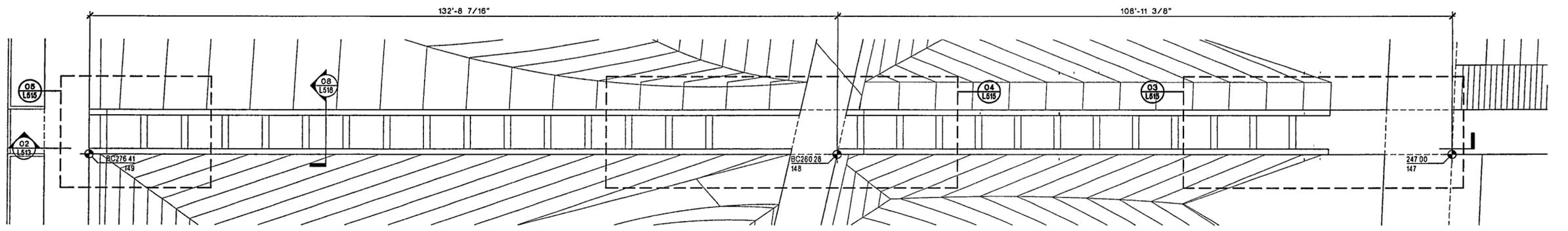
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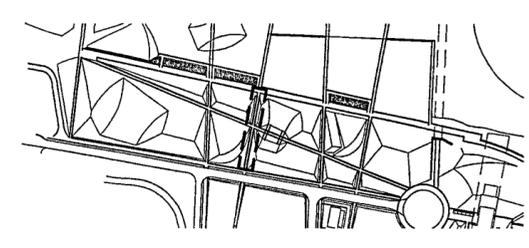
05 ENLARGEMENT PLAN
SCALE 1/4" = 1'-0"

04 ENLARGEMENT PLAN
SCALE 1/4" = 1'-0"

03 ENLARGEMENT PLAN
SCALE 1/4" = 1'-0"



02 TERRACE STEPS #3 PLAN AND SECTION OVERVIEW
SCALE 1/8" = 1'-0"



01 SITE REFERENCE
SCALE NTS

ALL SLOPES AND DIMENSIONS OF LANDINGS MUST BE EQUAL WITHIN EACH SET OF STEPS. NOTE THAT LANDING SIZES AND SLOPES VARY FROM ONE SET OF STEPS TO THE NEXT. RE-VERIFY START AND END ELEVATIONS, AND RUN DISTANCES PRIOR TO CONSTRUCTION.

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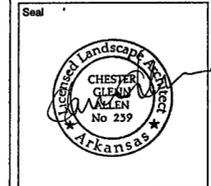
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Playground Design

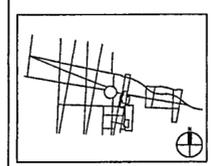
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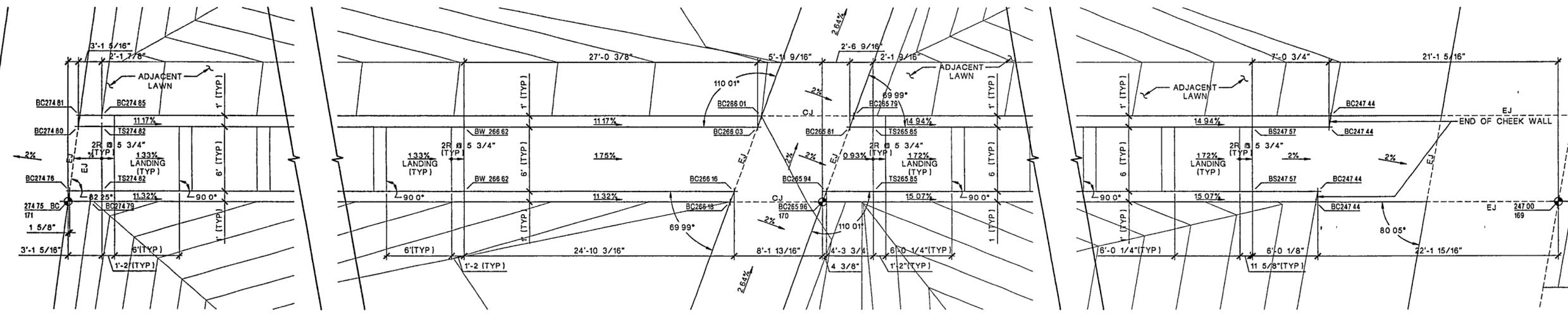
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TERRACE STEPS 4
DETAILS

Sheet No.

L516

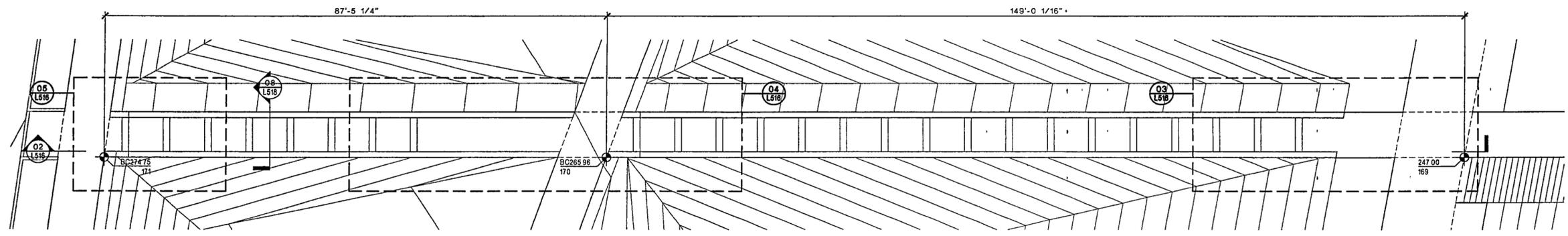
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05 ENLARGEMENT PLAN
SCALE 1/4" = 1'-0"

04 ENLARGEMENT PLAN
SCALE 1/4" = 1'-0"

03 ENLARGEMENT PLAN
SCALE 1/4" = 1'-0"



02 TERRACE STEPS #4 PLAN AND SECTION OVERVIEW
SCALE 1/8" = 1'-0"

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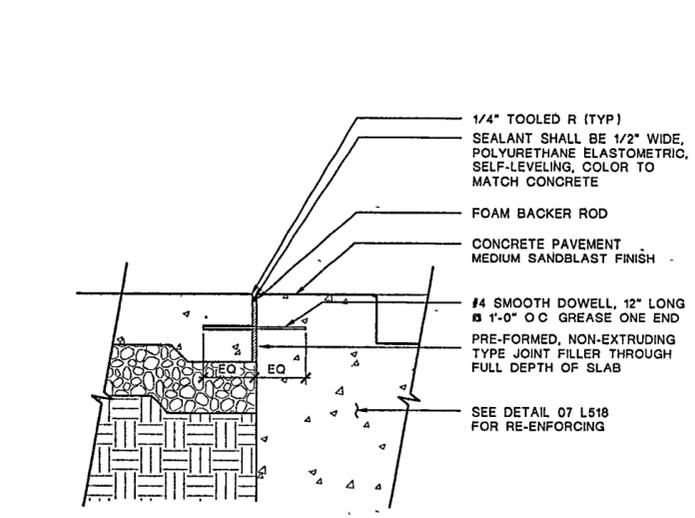
Issue	Date
03 100% Site Package 2 CD	08/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/28/02

Job No PPA 9908
HL CPC0101
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Date SEPTEMBER 27, 2002

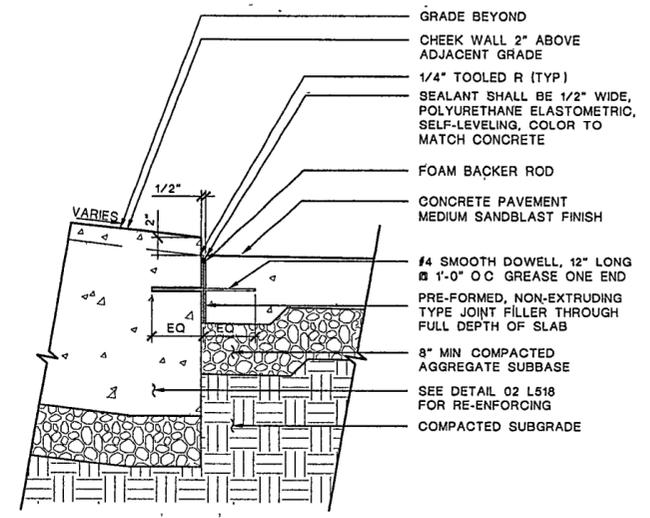
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TERRACE STAIR
DETAILS

Sheet No L518

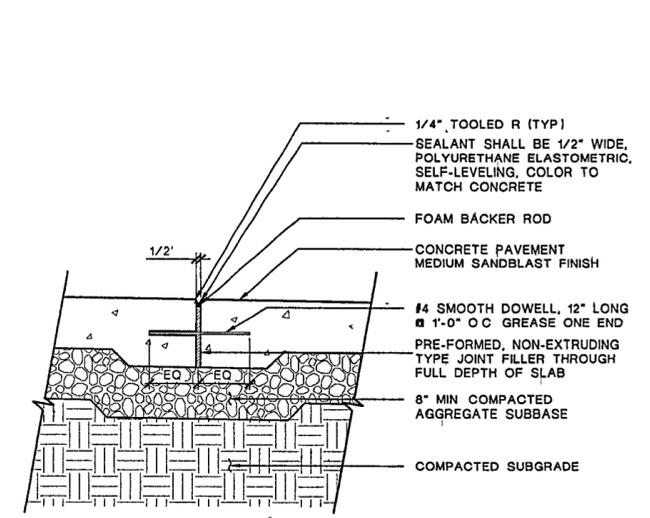
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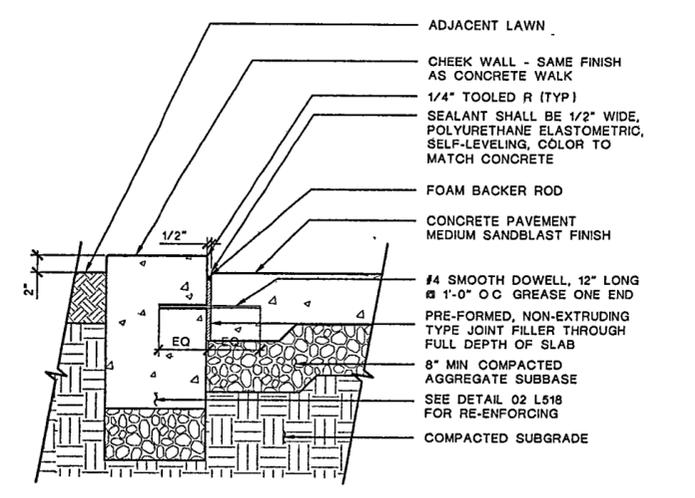
09 WALKWAY DOWEL JOINT & STEP FOOTING
SCALE 1 1/2"=1'-0"



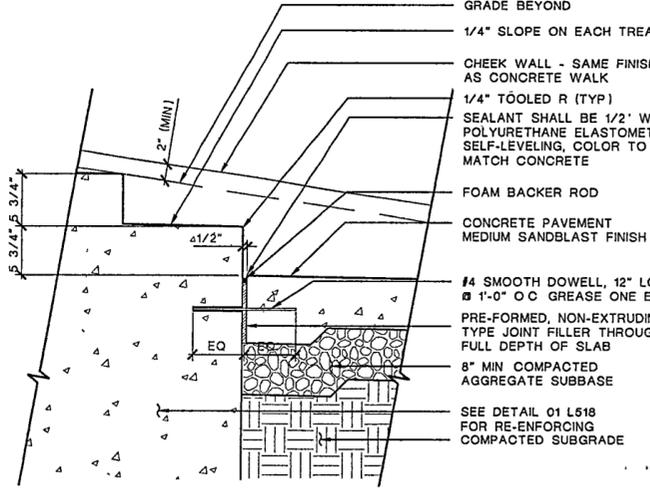
06 WALKWAY DOWEL JOINT & CHEEKWALL
SCALE 1 1/2"=1'-0"



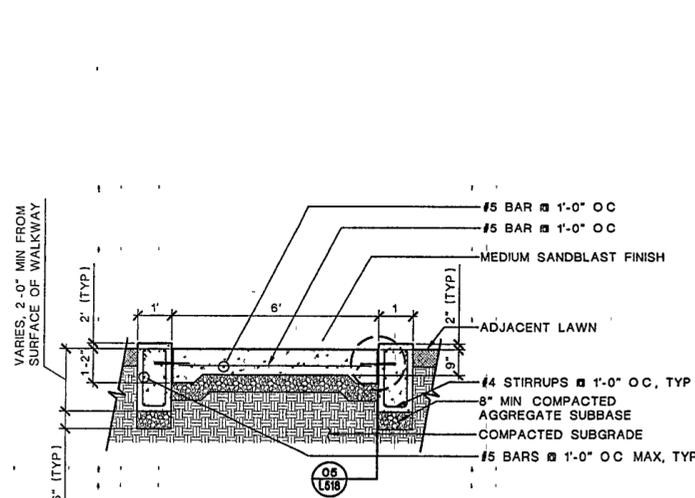
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SCALE 1 1/2"=1'-0"



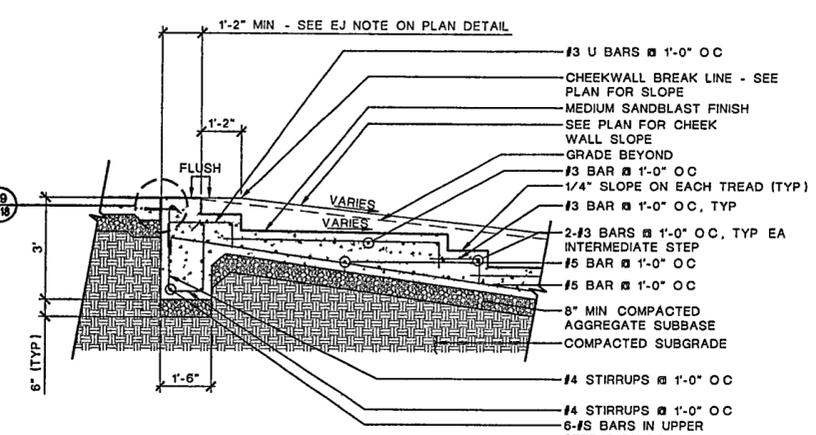
08 WALKWAY DOWEL JOINT & CHEEK WALL
SCALE 1 1/2"=1'-0"



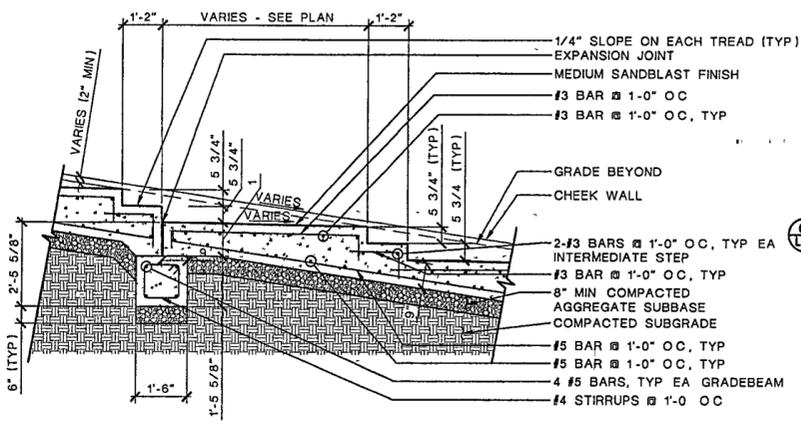
05 WALKWAY DOWEL JOINT & STEP FOOTING
SCALE 1 1/2"=1'-0"



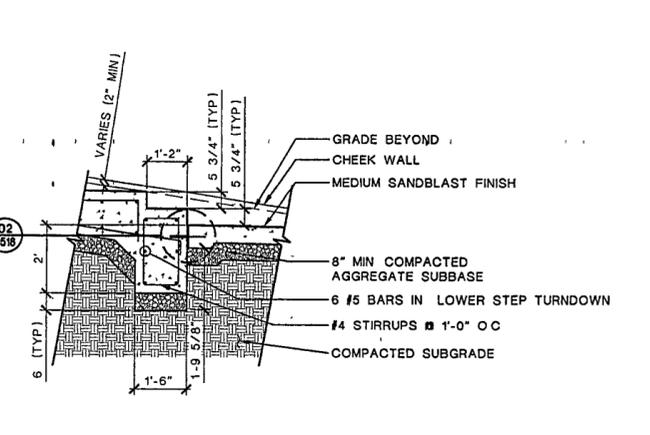
02 CROSS SECTION OF STEPS
SCALE 1/2"=1'-0"



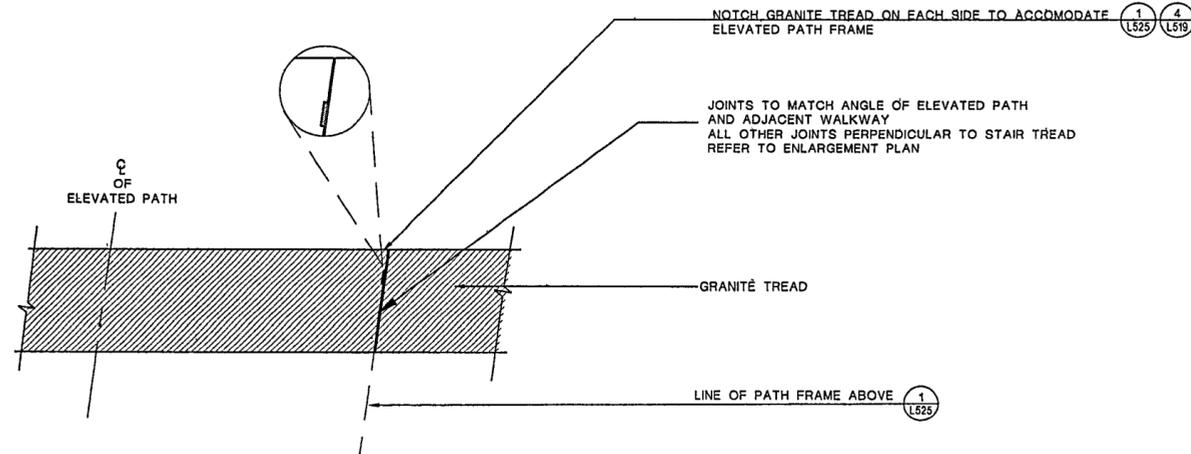
07 UPPER STEP CONNECTION
SCALE 1"=1'-0"



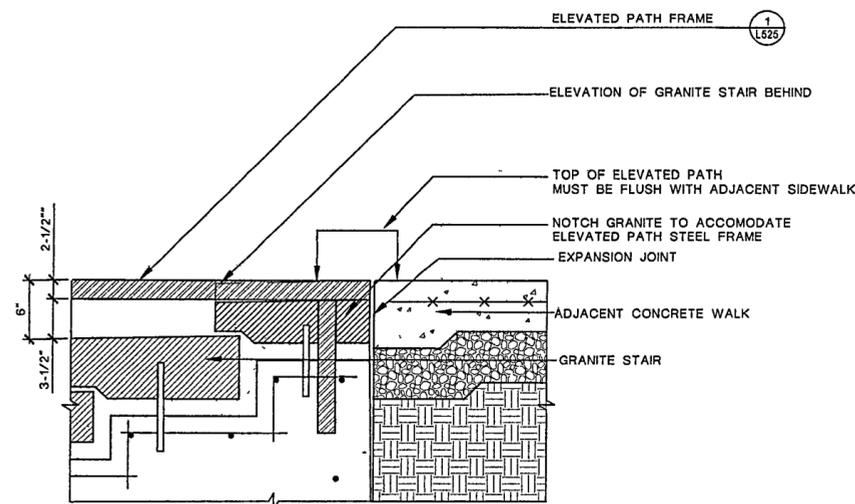
04 TYPICAL STEP CONNECTION
SCALE 1"=1'-0"



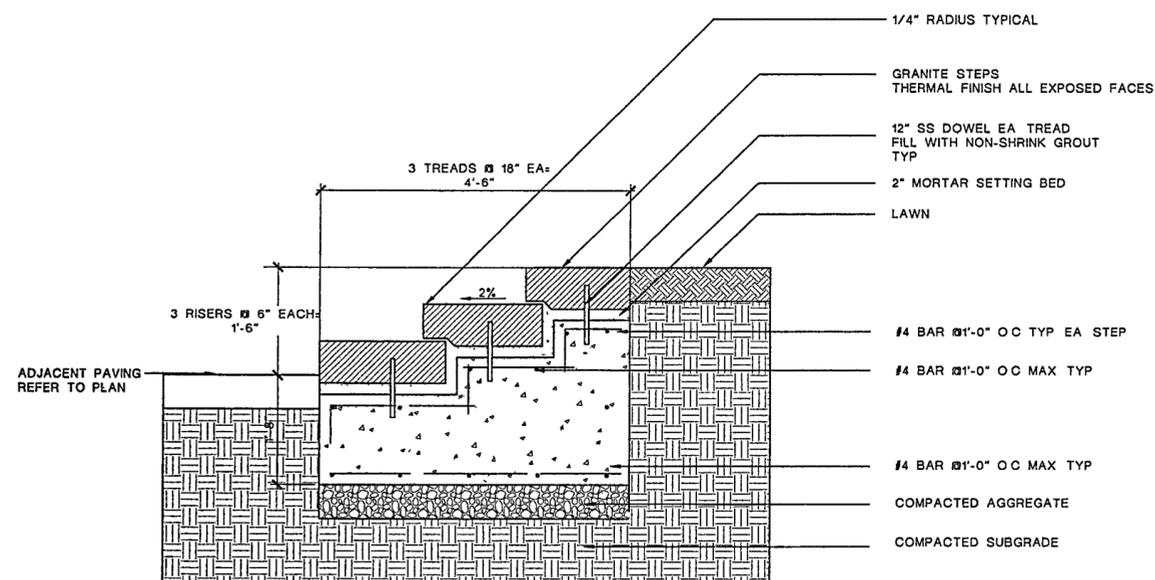
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SCALE 1"=1'-0"



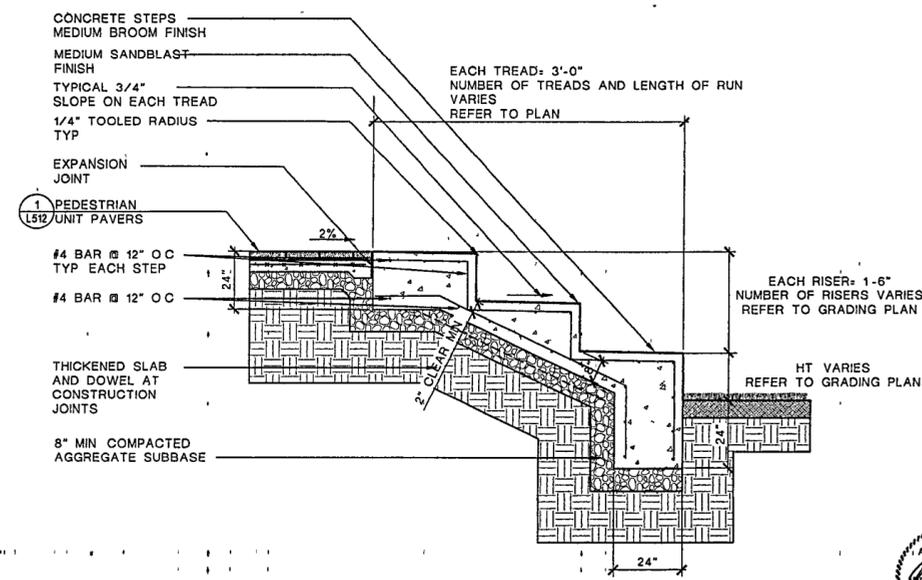
5 GRANITE TREAD @ ELEVATED PATH PLAN
SCALE 1"=1'



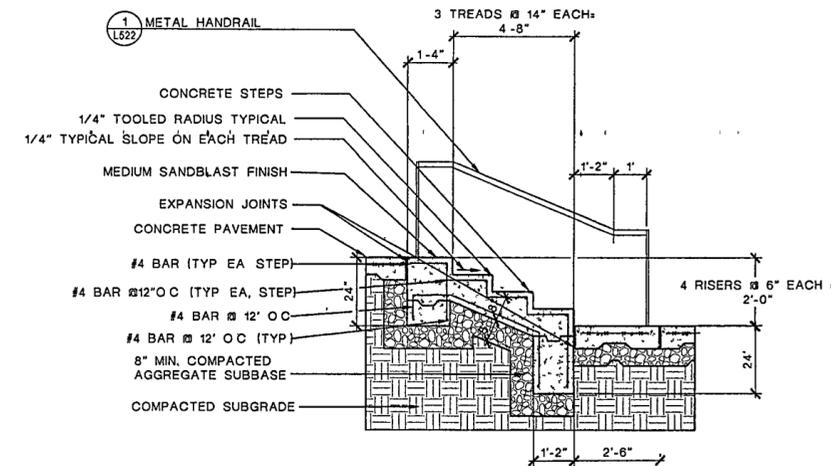
4 GRANITE TREAD @ ELEVATED PATH
SCALE 1-1/2"=1'



3 GRANITE STEPS
SCALE 1"=1'



2 EAST TERRACE STADIUM STEPS DETAIL
SCALE 1/2"=1'-0"



1 POURED IN PLACE CONCRETE STEPS AT CHOCTAW
SCALE 1/2"=1'-0"

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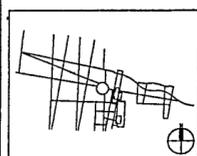
Fountain
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Playground Design
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Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/29/02



Job No PPA 8908
HA CPC0101

Scale AS NOTED

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
STEP DETAILS

Sheet No

L519

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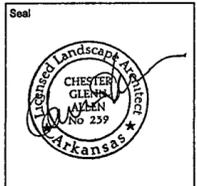
Electrical Engineer
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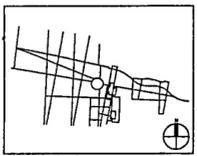
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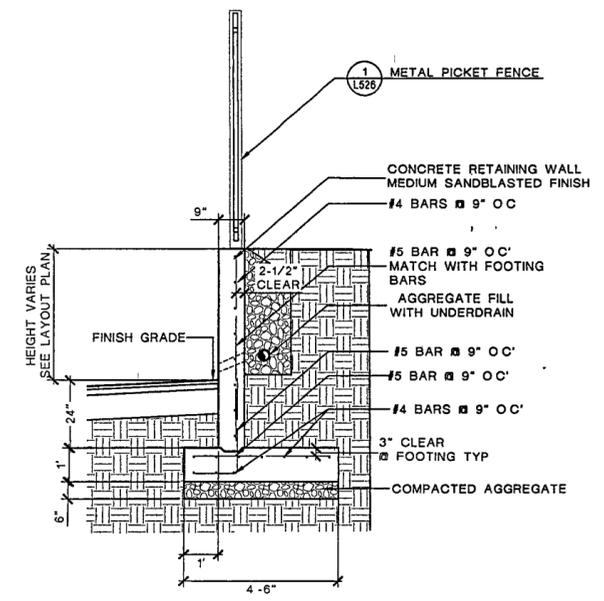
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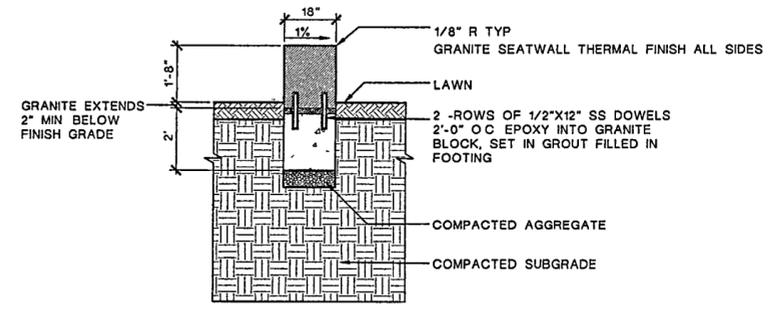
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WALL DETAILS

Sheet No

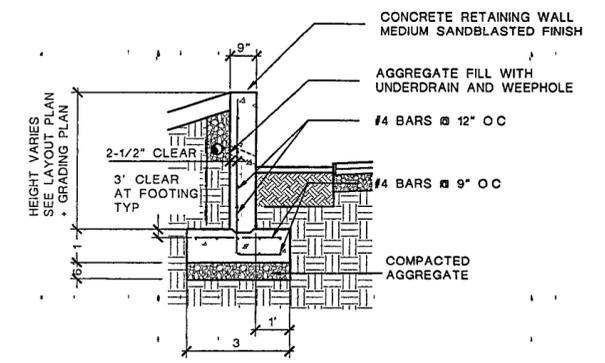
L520



2 SERVICE AREA PAVING AND RETAINING WALL DETAIL
SCALE 1/2"=1'



3 GRANITE SEAT WALL IN CONTEMPLATION GROVE
SCALE 1"=1/2'



1 CONCRETE RETAINING WALL AT SCHOLAR'S GARDEN
SCALE 1"=1/2'

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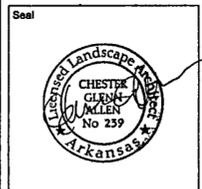
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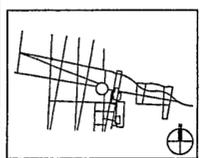
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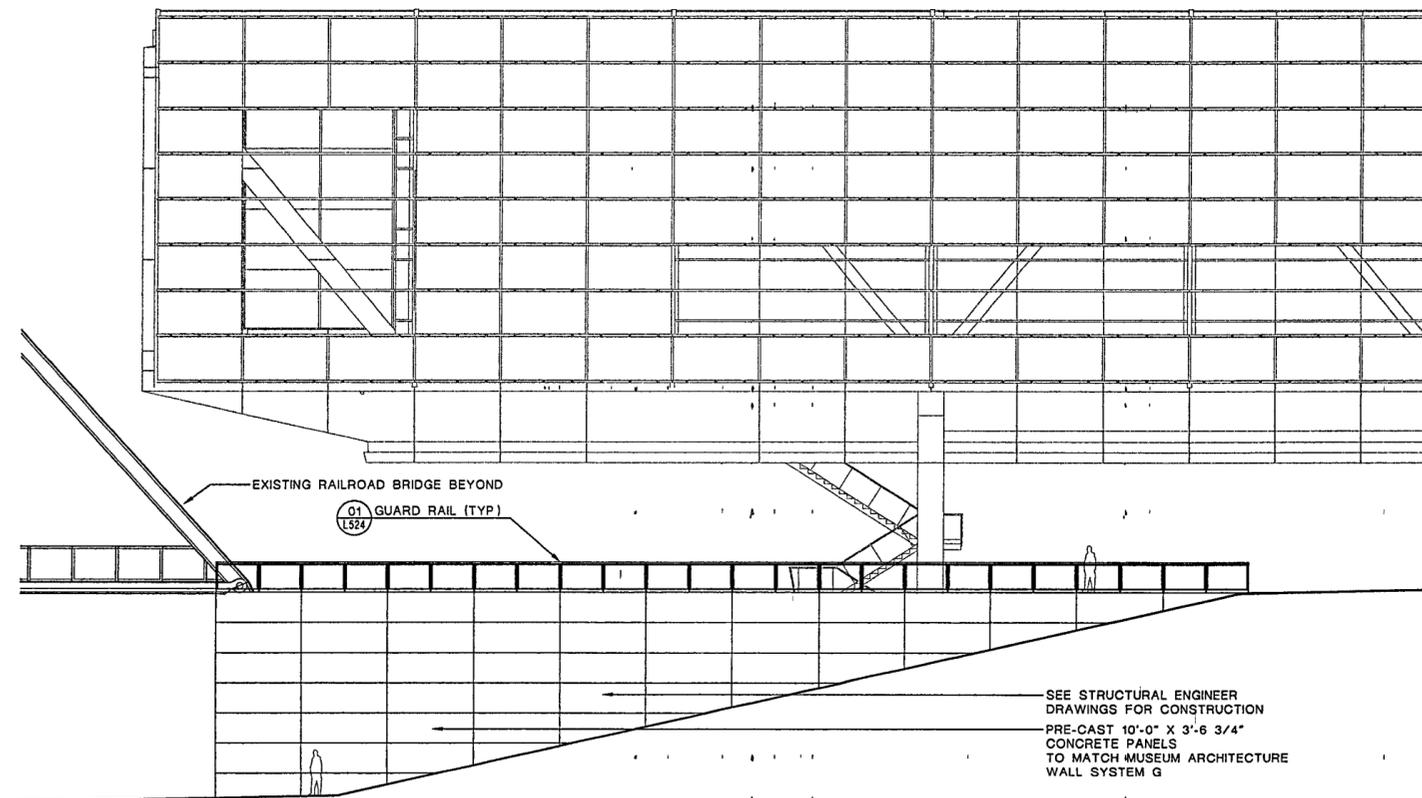
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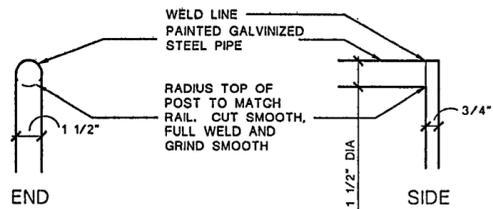
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DETAILS

Sheet No

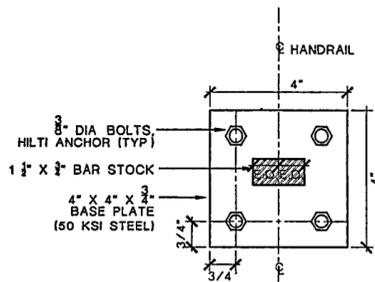
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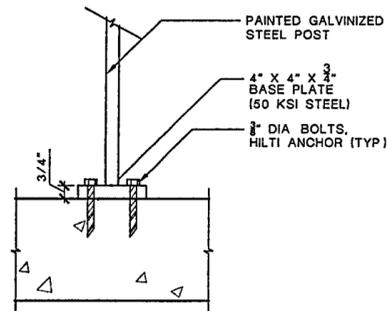
1 AMPHITHEATER RETAINING WALL ELEVATION
SCALE 1/2"=1'



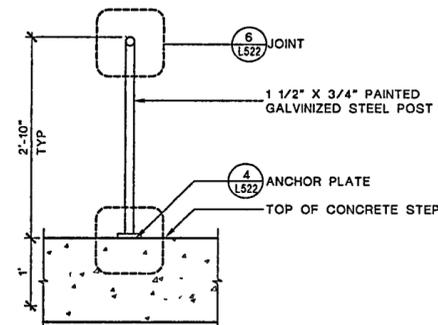
6 HANDRAIL JOINT
SCALE 1"=0'-3"



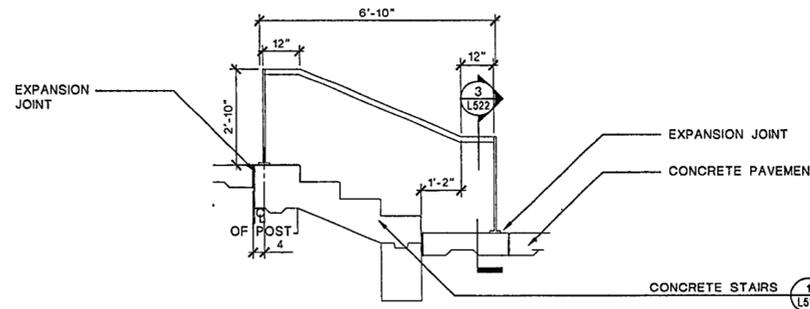
5 ANCHOR PLATE PLAN DETAIL
SCALE 1/2" = 0' - 1"



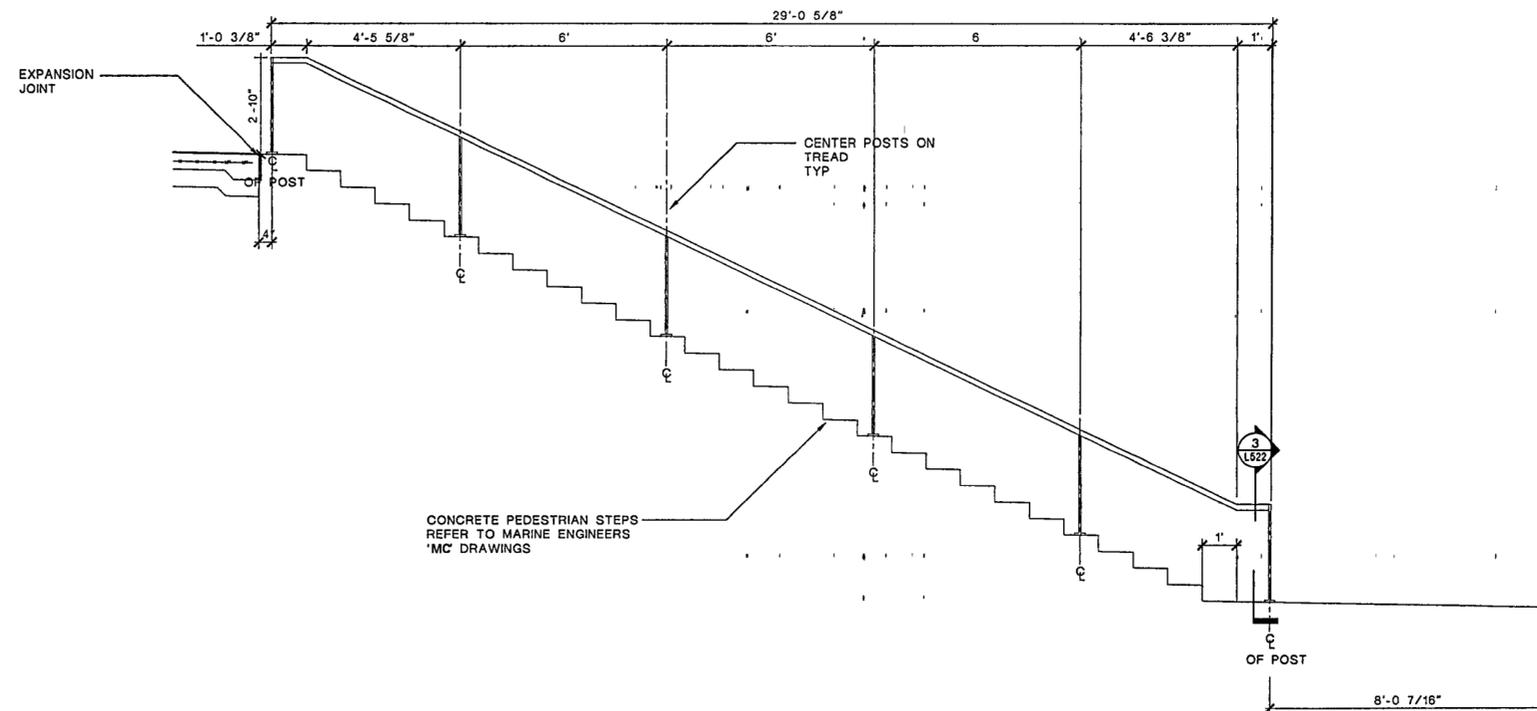
4 ANCHOR PLATE SECTION DETAIL
SCALE 1" = 0'-3"



3 METAL HANDRAIL SECTION
SCALE 1"=1'-0"



2 METAL HANDRAIL AT CHOCTAW STATION
SCALE 1/2" = 1' - 0"



1 RIVER PEDESTRIAN STEPS METAL HANDRAIL ELEVATION
SCALE 1/2"=1'-0"



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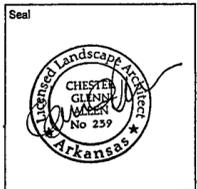
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905 884-4176

Playground Design

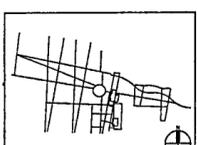
PLAY SITE ARCHITECTURE
7 Fairway Road
Acton, Massachusetts 01720
978 263 1090

Signage Design

POULIN + MORRIS
298 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332



Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	08/29/02



Job No PPA 9908
HA CPC0101

Scale AS NOTED

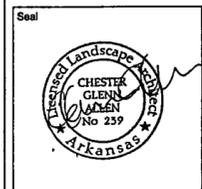
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
RAILING DETAILS

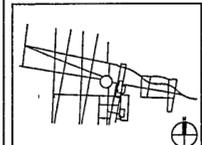
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01 100% Site Package 2 CD 09/27/02
Issue Date



Job No PPA 0908
HA, CPC0101

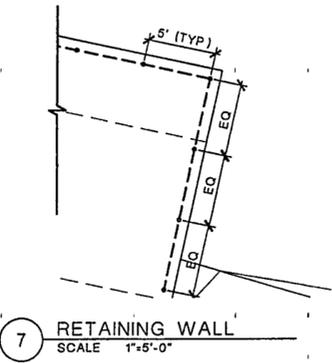
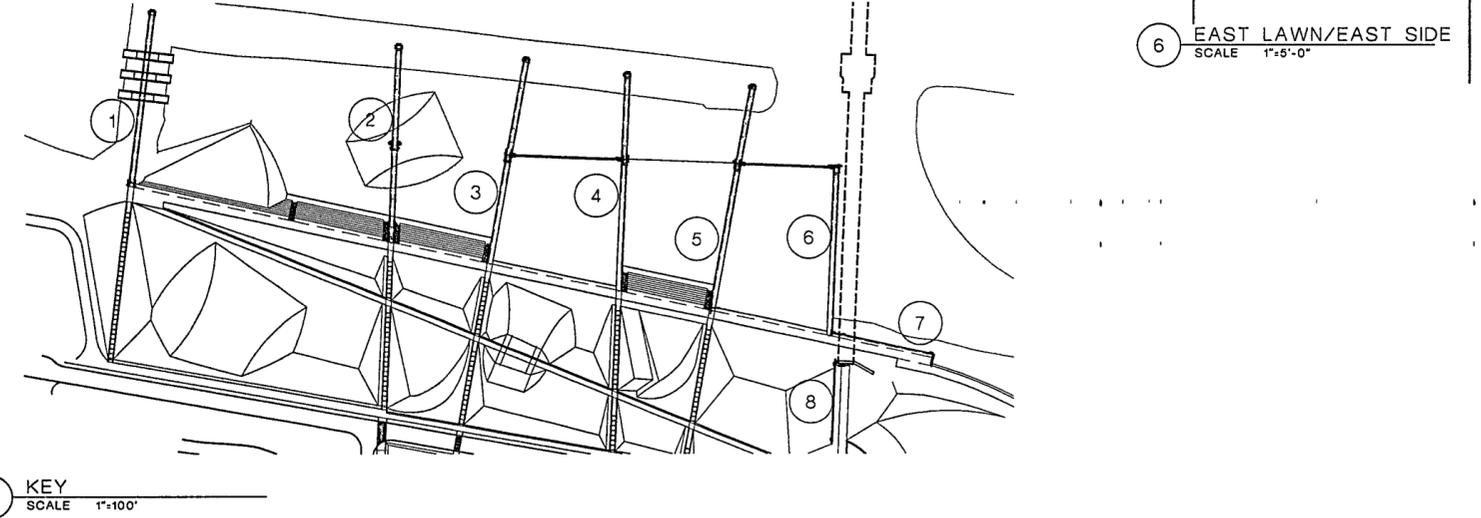
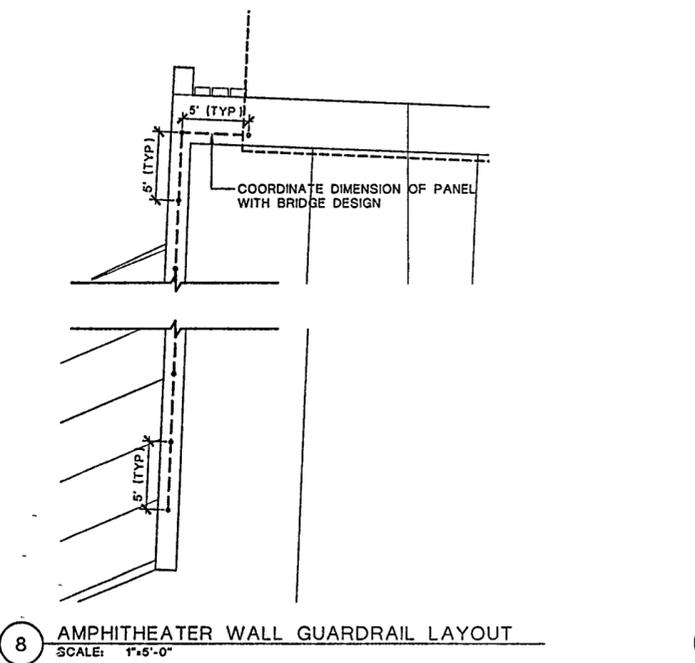
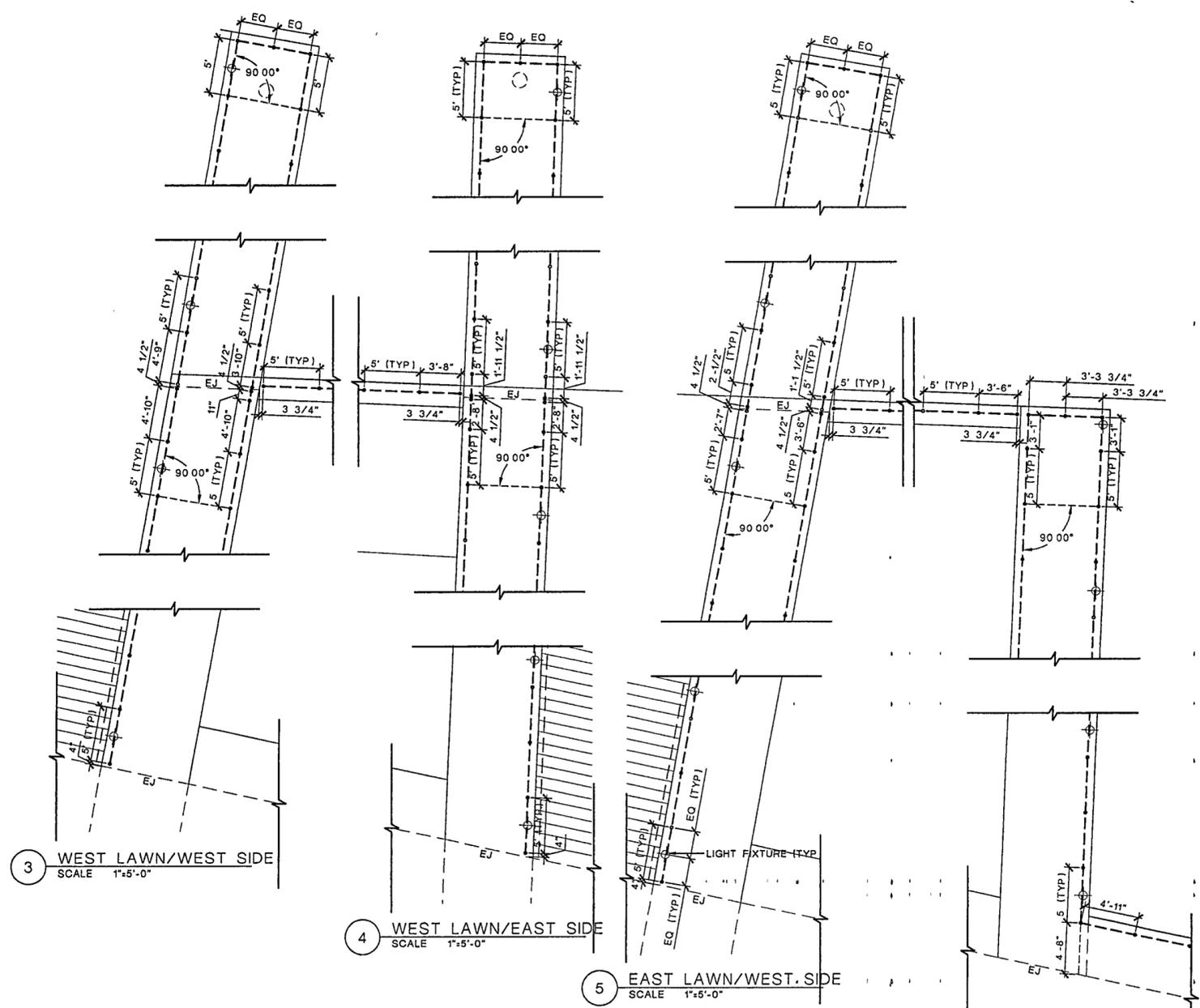
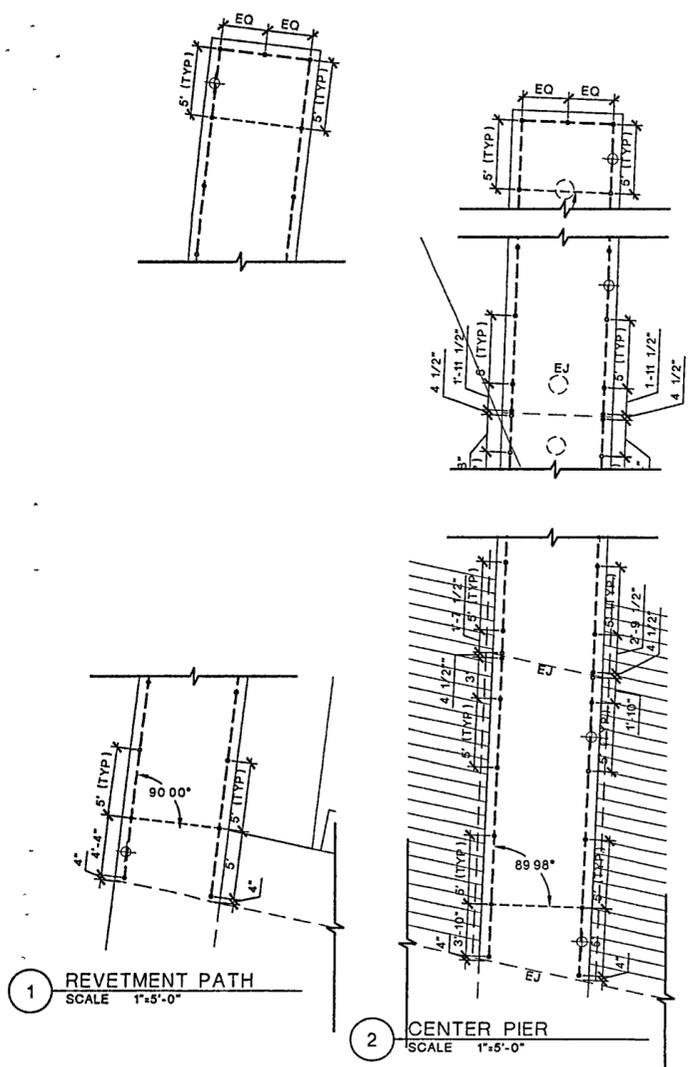
Scale AS SHOWN

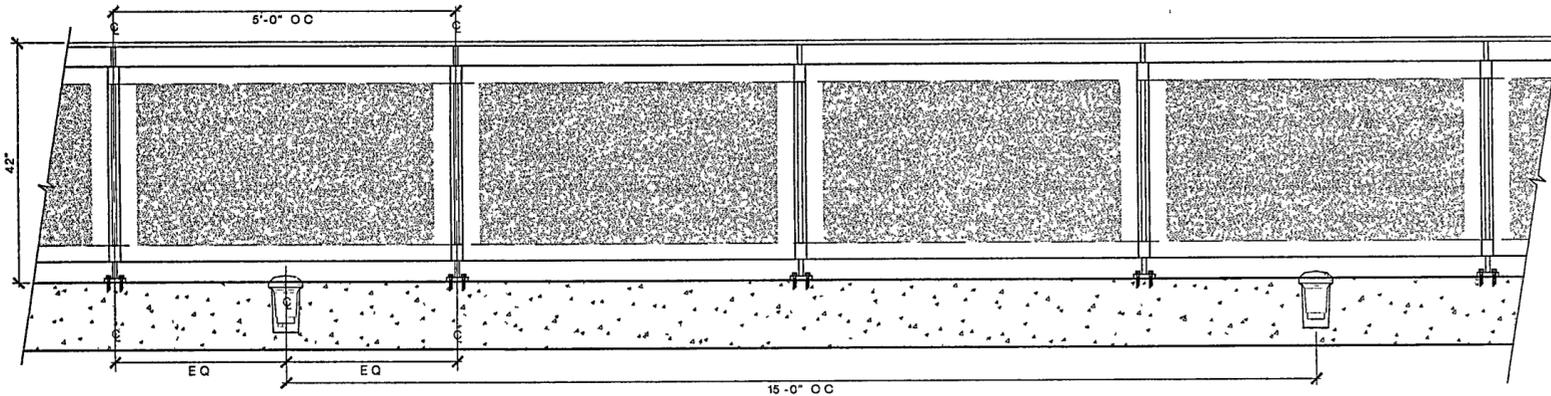
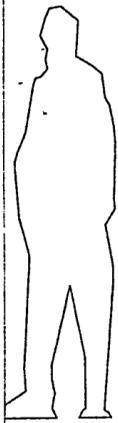
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
GUARDRAIL LAYOUT

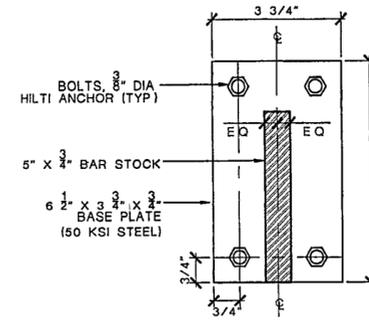
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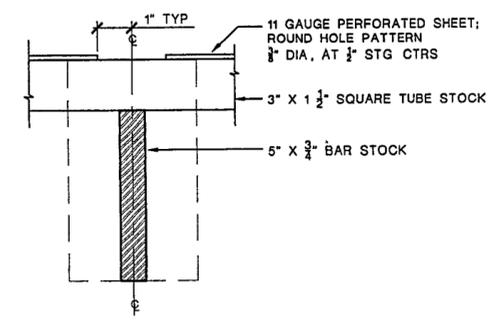




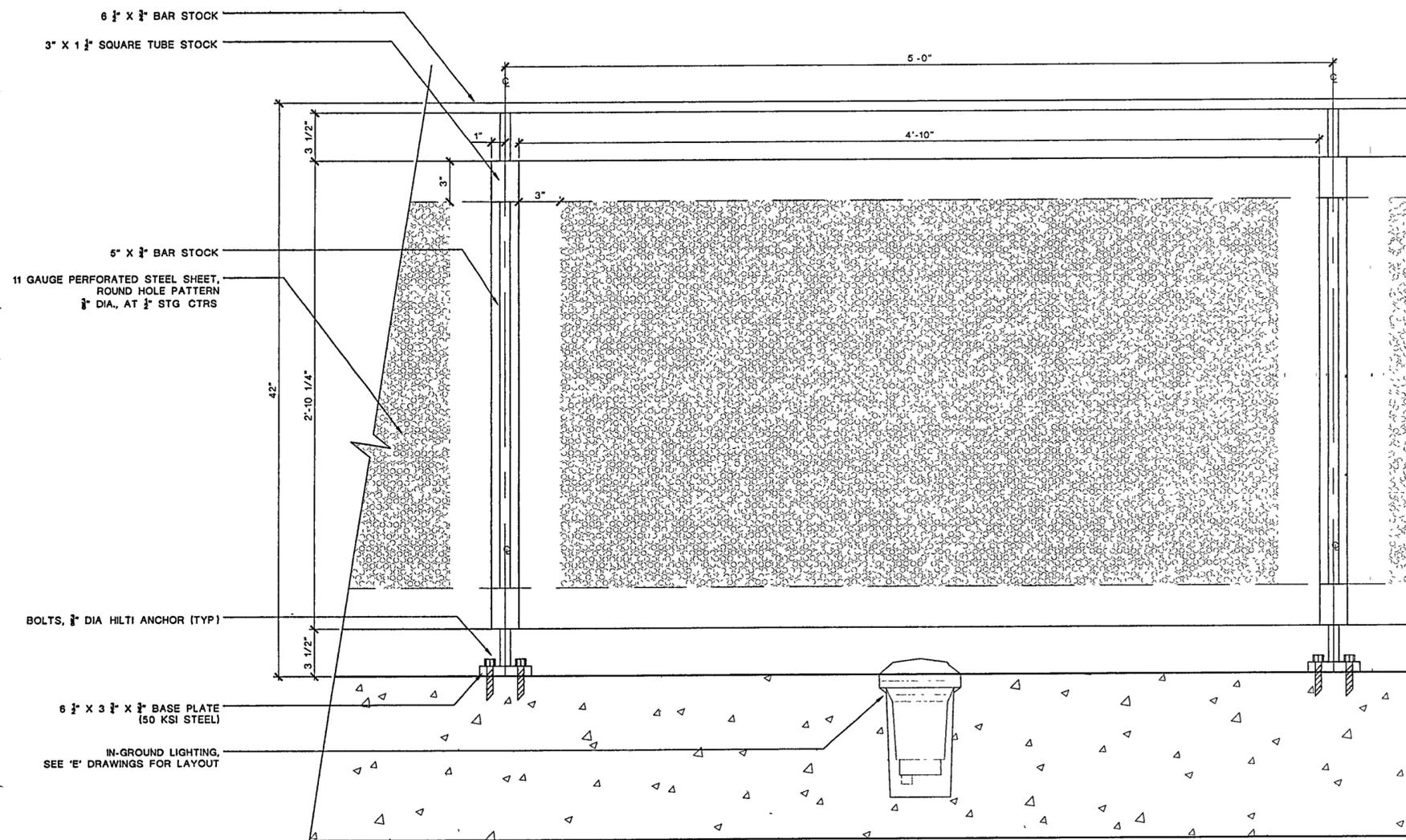
05 GUARDRAIL ELEVATION
SCALE 1" = 1' - 0"



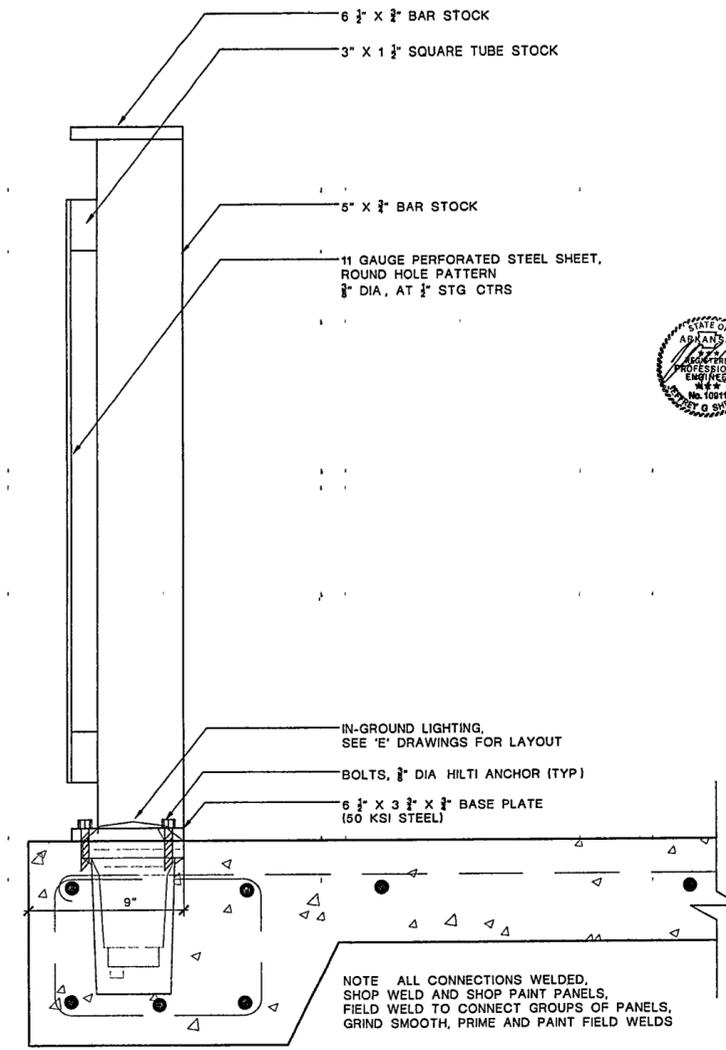
04 BASE PLATE DETAIL
SCALE 1/2" = 0' - 1"



03 PLAN DETAIL
SCALE 1/2" = 0' - 1"



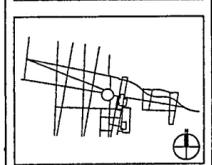
02 GUARDRAIL ELEVATION PANEL DETAIL
SCALE 3/8" = 1' - 0"



01 GUARDRAIL SECTION
SCALE 3/8" = 1' - 0"



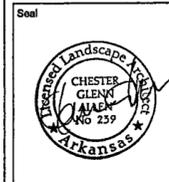
Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/29/02



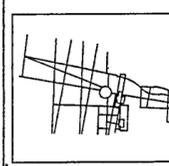
Job No PPA 9908
Scale H.A. CPC0101
Date AS NOTED

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS

Sheet No



Issue	Date
01 100% Site Package 2 CD	09/27/02



Job No PPA 9908
HA CPC0101

Scale AS NOTED

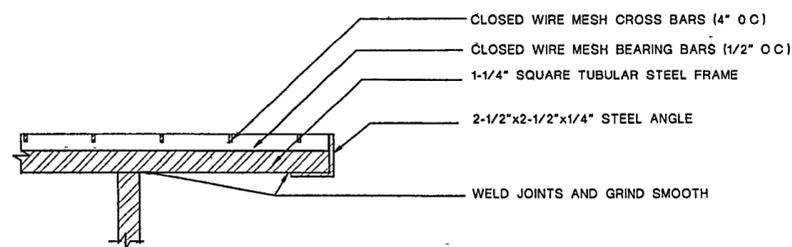
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
ELEVATED PATH

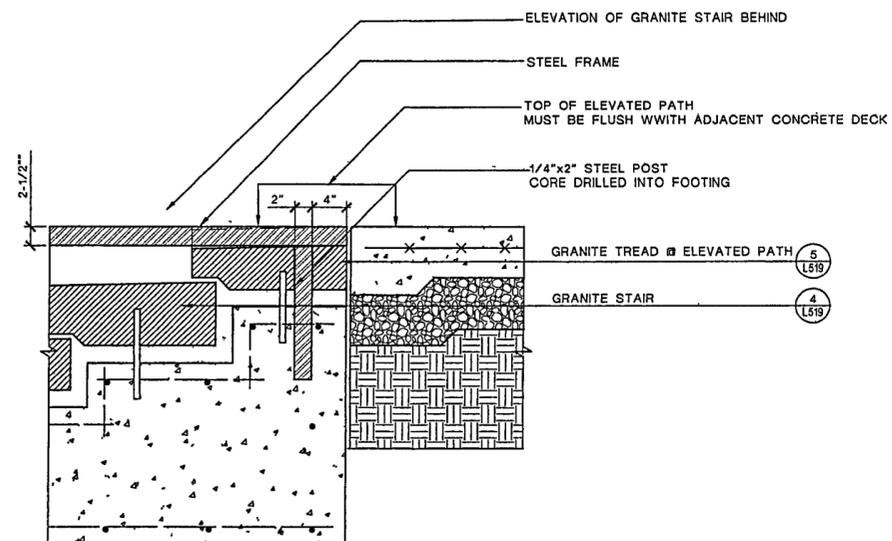
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L525

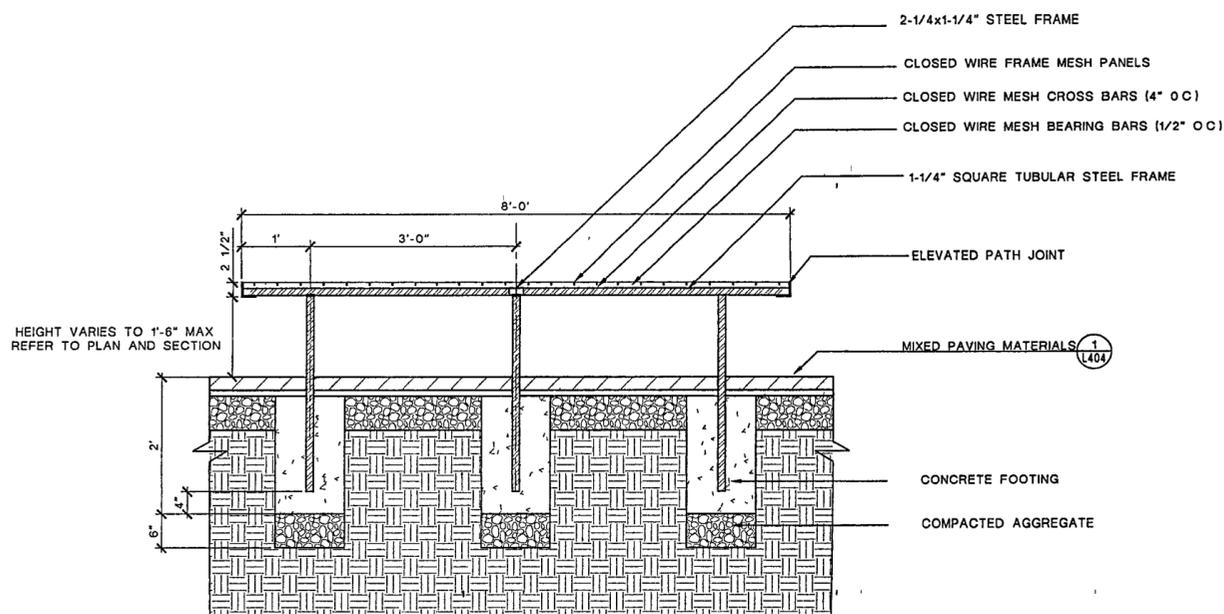
FOR OFFICIAL USE ONLY



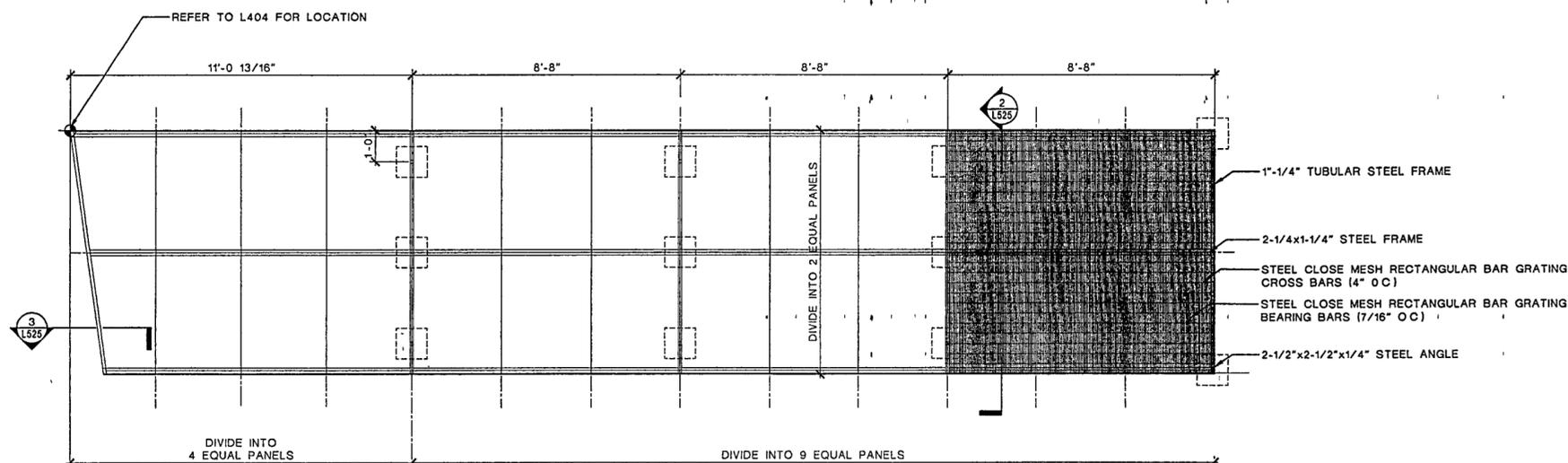
4 ELEVATED METAL PATH JOINT
SCALE 3"=1'



3 METAL FRAME @ GRANITE TREAD
SCALE 1-1/2"=1'



2 ELEVATED PATH SECTION
SCALE 1"=1'



1 ELEVATED PATH FRAME
SCALE 1/2"=1'

LITTLE ROCK, ARKANSAS

Architect
POLSHEK PARTNERSHIP LLP
320 West 13th Street
New York, New York 10014
212 607 7171

Landscape Architect



HARGREAVES ASSOCIATES
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Cambridge, Massachusetts 02139
617 661 0070 f
617 661 0054 f

Coordinating Landscape Architect
LANDSCAPE ARCHITECTURE, INC
2300 Cottondale Lane, Suite 202
Little Rock, Arkansas 72202
501 374 5610

Civil Engineer
McCLELLAND CONSULTING ENGINEERS
900 W Markham Street
Little Rock, Arkansas 72201
501 371 0272

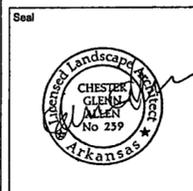
Electrical Engineer
CROMWELL ARCHITECTS ENGINEERS
101 South Spring Street
Little Rock, Arkansas 72201
501 372-2900

Marine + Structural Engineers
MOFFATT & NICHOL ENGINEERS
1618 East Millbrook Road, Suite 160
Raleigh, North Carolina 27609
919 781 4628

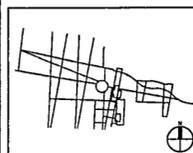
Fountain
DAN ELUSER WATERARCHITECTURE INC
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
7 Falway Road
Acton, Massachusetts 01720
978 253 1050

Signage Design
POULIN + MORRIS
286 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332



Issue	Date
03 100% Site Package 2 CD	06/27/02
02 90% Site Package 2 CD	06/16/02
01 60% Site Package 2 CD	06/29/02
Issue	Date



Job No PPA 9908
HA. GPC0101

Scale AS NOTED

Date SEPTEMBER 27, 2002

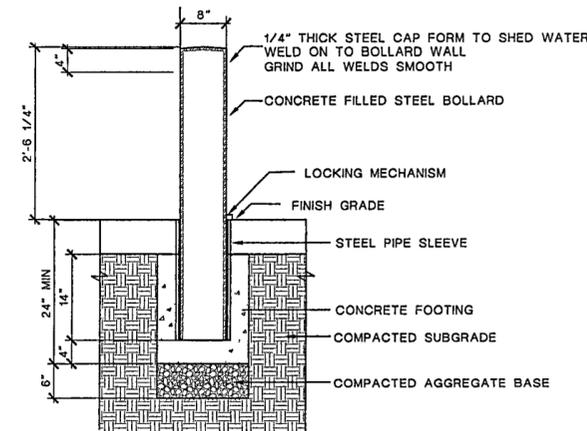
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
FURNITURE AND
FENCE DETAILS

Sheet No

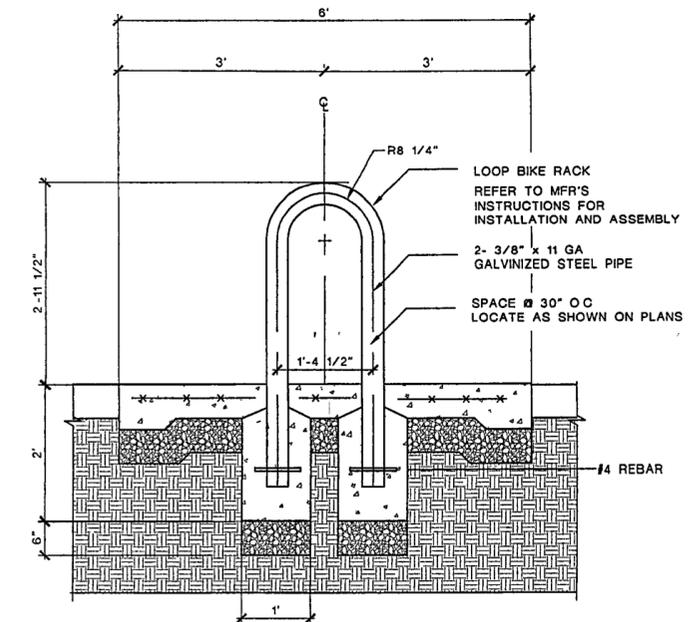
L526

FOR OFFICIAL USE ONLY

MAINTAIN TOP OF BOLLARD
30-1/4" ABOVE FINISH GRADE
ALL BOLLARDS TO BE INSTALLED
PLUMB

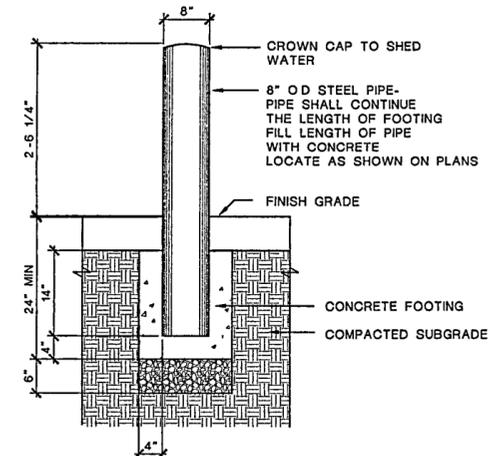


4 REMOVEABLE STEEL BOLLARD (ALTERNATE)
SCALE: 1" = 1'-0"



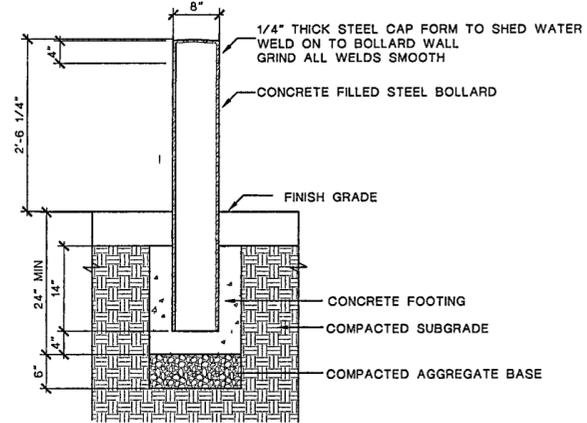
2 METAL BIKE RACK
SCALE: 1" = 1'-0"

MAINTAIN TOP OF BOLLARD
30-1/4" ABOVE FINISH GRADE
ALL BOLLARDS TO BE INSTALLED
PLUMB

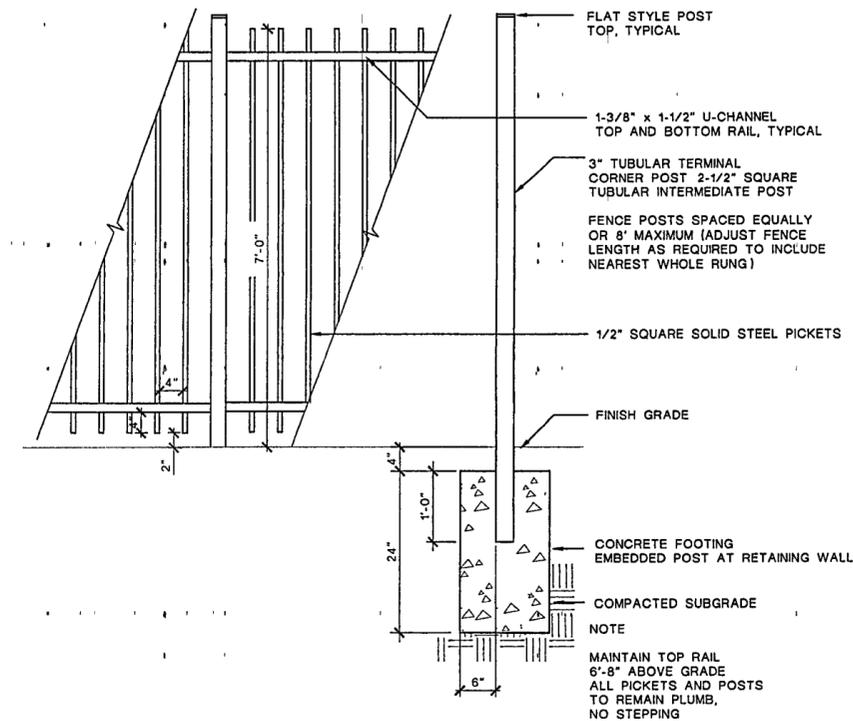


5 STEEL PIPE BOLLARD
SCALE: 1" = 1'-0"

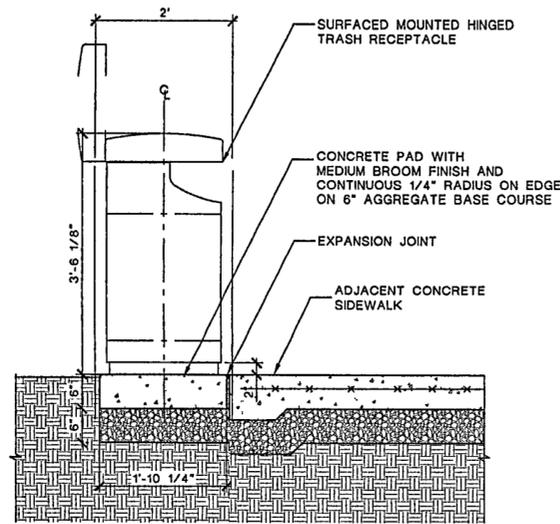
MAINTAIN TOP OF BOLLARD
30-1/4" ABOVE FINISH GRADE
ALL BOLLARDS TO BE INSTALLED
PLUMB



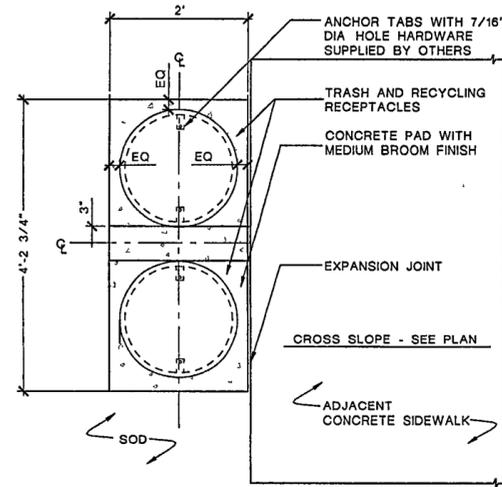
3 STEEL BOLLARD
SCALE: 1" = 1'-0"



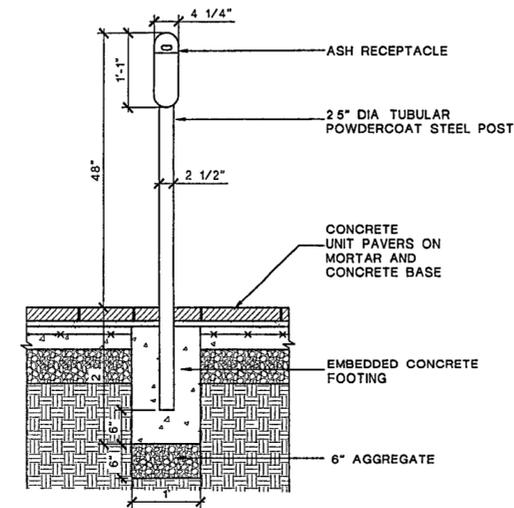
1 METAL PICKET FENCE ELEVATION AND SECTION
SCALE: 1" = 1'-0"



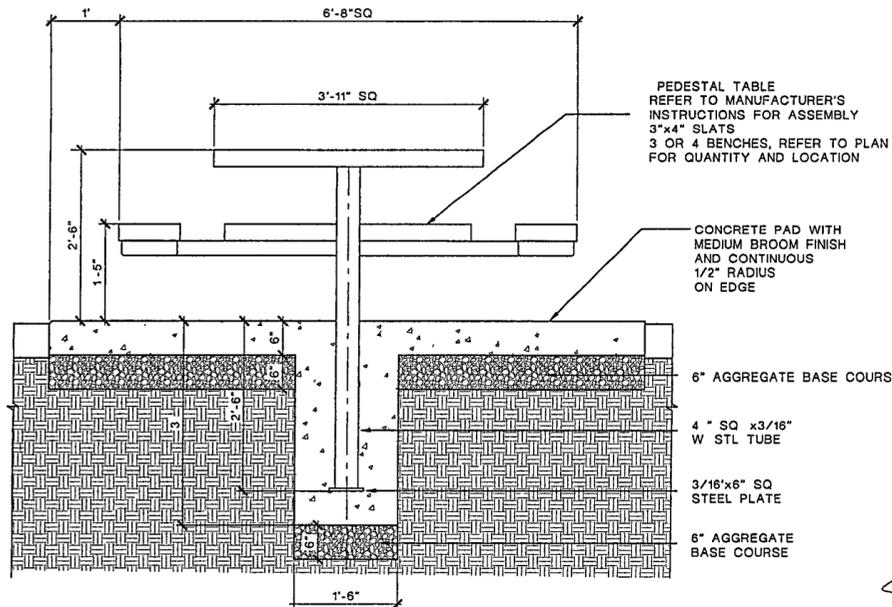
7 METAL TRASH RECEPTACLE- SECTION/ELEVATION
SCALE 1" = 1'-0"



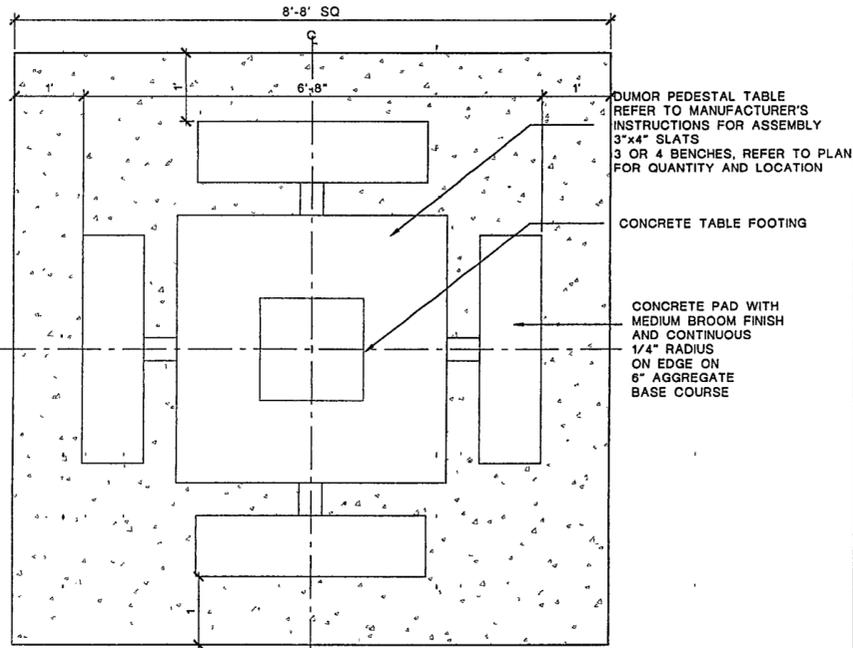
6 TRASH AND RECYCLING RECEPTACLE ON CONCRETE PAD
SCALE 1" = 1'-0"



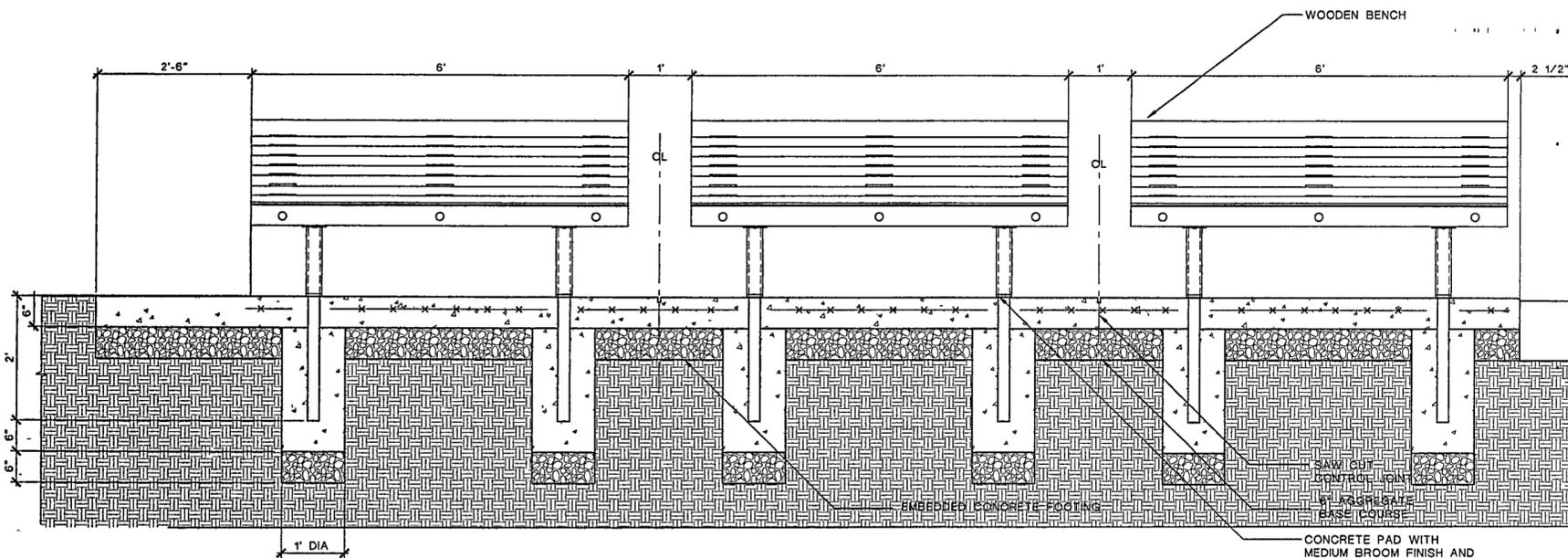
5 ASH RECEPTACLE
SCALE 1" = 1'-0"



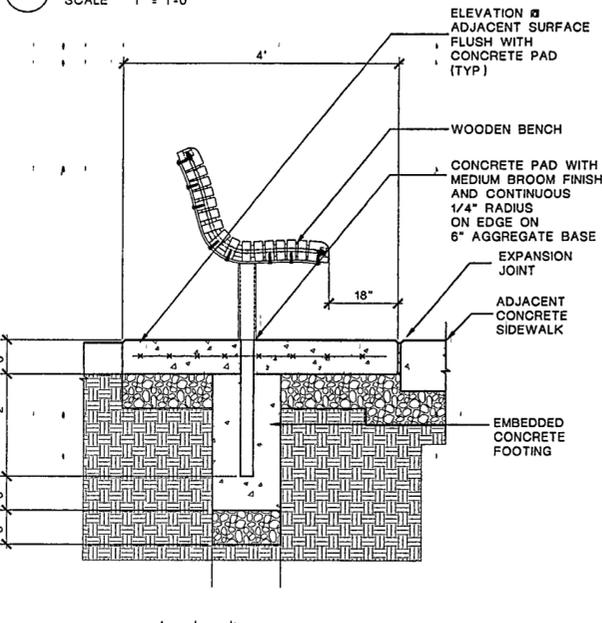
4 PICNIC TABLE ON CONCRETE PAD - SECTION
SCALE 1" = 1'-0"



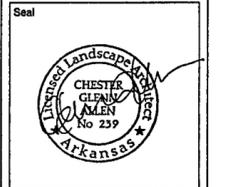
3 PICNIC TABLE ON CONCRETE PAD- PLAN
SCALE 1" = 1'-0"



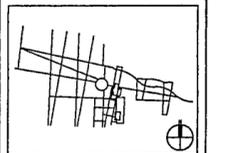
2 BENCHES ON CONCRETE PAD - ELEVATION (SIM FOR TWO BENCHES)
SCALE 1" = 1'-0"

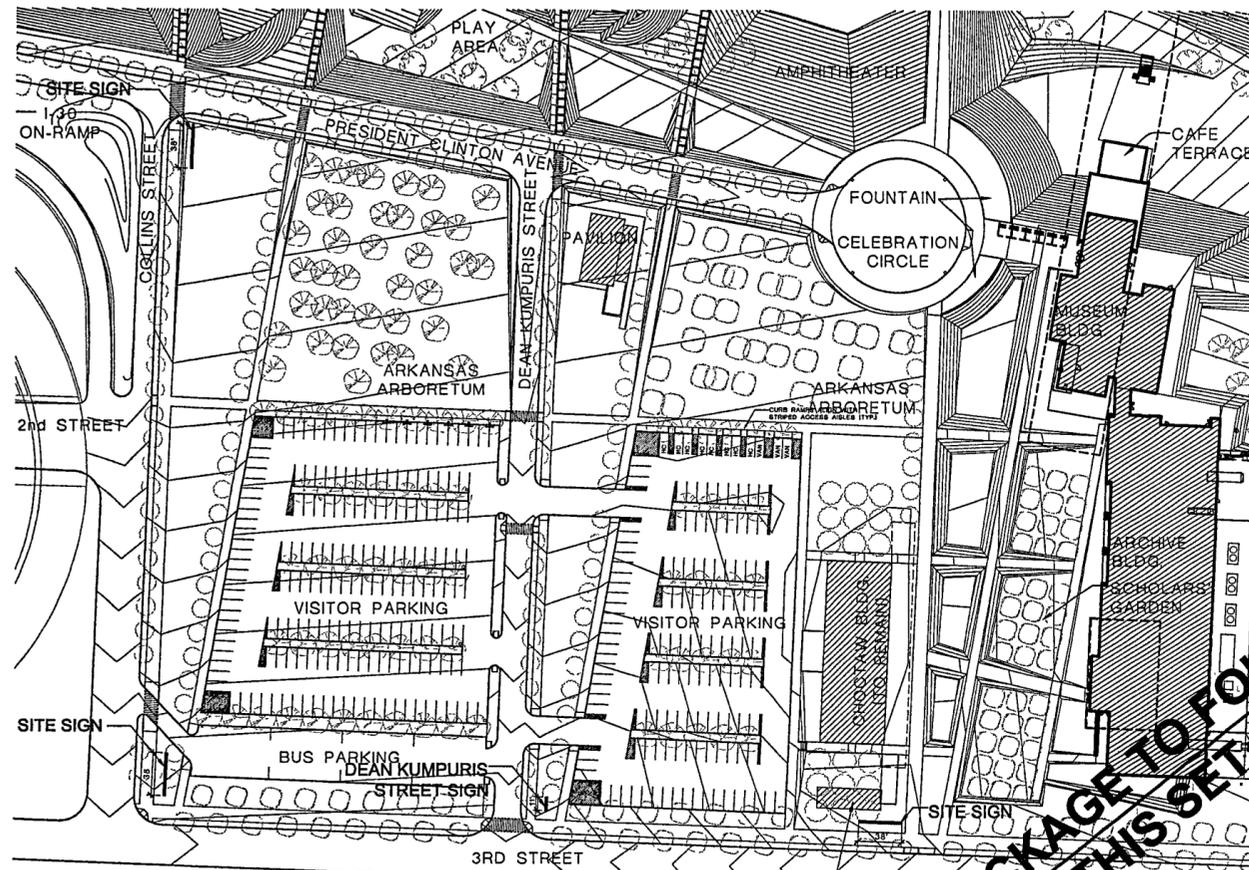


1 BENCH ON CONCRETE PAD - SECTION
SCALE 1" = 1'-0"



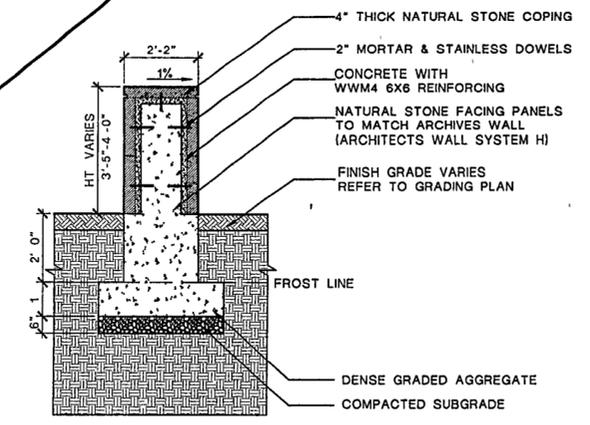
Issue	Date
04 100% Site Package 2 CD	09/27/02
03 90% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	06/29/02
01 100% Design Development	04/01/02





3 SITE SIGN LOCATION PLAN
SCALE 1"=40'

CHOCTAW MEP YARD
SEE CHOCTAW DRWGS

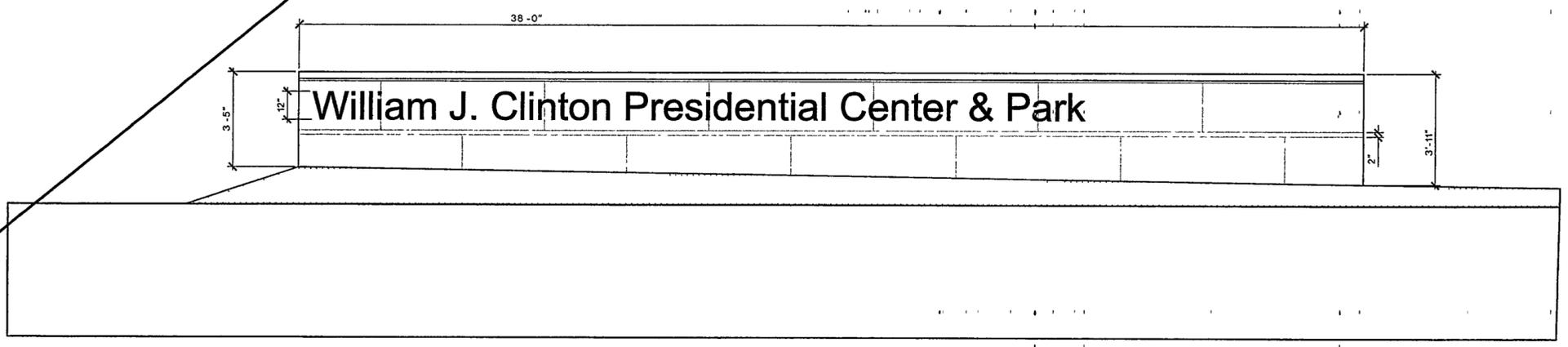


2 SITE SIGN SECTION
SCALE 1/2"=1'

**SIGNAGE PACKAGE TO FOLLOW
NOT IN THIS SET**

MONUMENTAL ENTRANCE SIGN TO BE
NATURAL STONE PANELS 5' 10" x 1' 8 1/2" x 4" THICK AND
3" COPING STONE TO MATCH ARCHIVE BUILDING STONE
WALL SYSTEM H
WALL THICKNESS 2'-2"
LETTERING/ENGRAVING TO BE ON ONE SIDE ON ALL SIGNS
LETTERING PER SIGNAGE PLAN
DEAN KUMPURIS STREET SIGN TO MATCH OTHER SITE SIGNS
BUT ONLY TWO STONE PANEL LENGTH APPROX 11'
LETTERING PER SIGNAGE PLAN

1 MONUMENTAL SIGN DETAIL
SCALE 1/4"=1'



**WILLIAM J. CLINTON
PRESIDENTIAL
CENTER & PARK**

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Fountain
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Playground Design
PLAY SITE ARCHITECTURE
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978.263 1050

Signage Design
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212 875 1332

Seal
Professional Landscape Architect
CHESTER
GLENN
ALLEN
No. 239
Arkansas

04	100% Site Package 2 CD	09/27/02
03	90% Site Package 2 CD	08/16/02
02	60% Site Package 2 CD	06/29/02
01	100% Design Development	04/01/02
Issue		Date

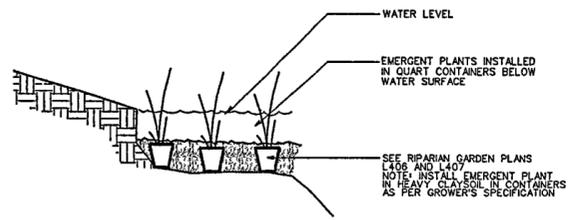
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HA CPC0101

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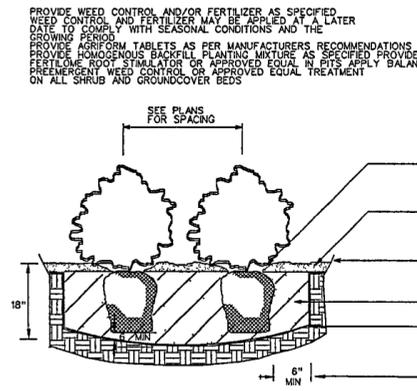
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE SIGN DETAIL

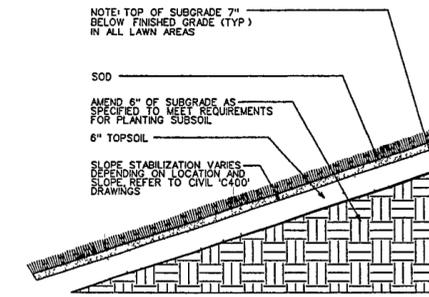
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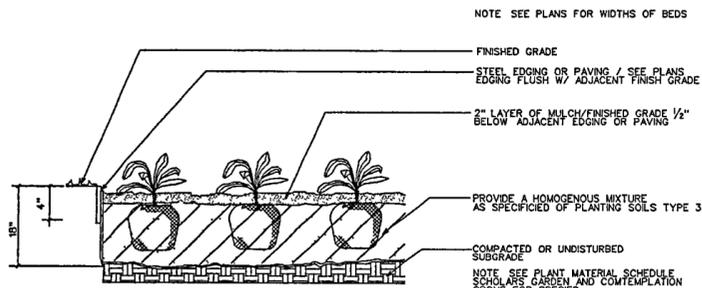
1 EMERGENT PLANTING
L530 NO SCALE



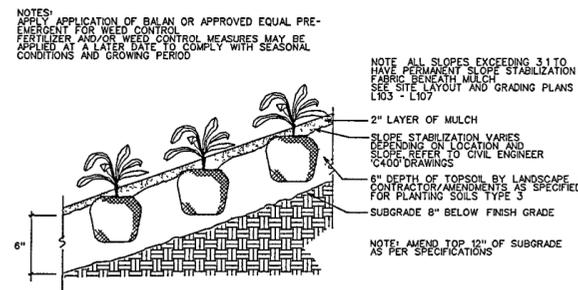
4 HEDGE PLANTING TYP.
L530 NO SCALE



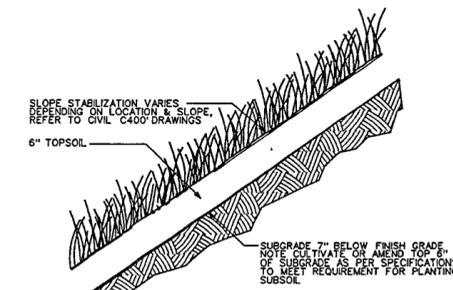
7 LAWN, SLOPED LAWN
L530 NO SCALE



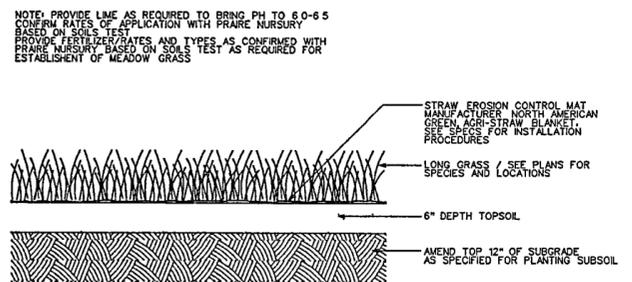
2 TYPICAL PLANTING BED SCHOLARS GARDEN CONTEMPLATION GROVE
L530 NO SCALE



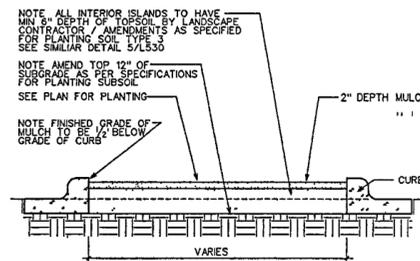
5 GROUNDCOVER ON LANDFORM SLOPE AND AT BUILDING
L530 NO SCALE



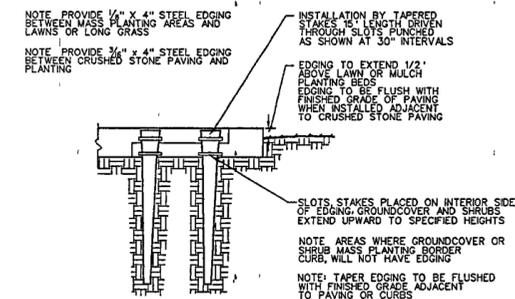
8 LONG GRASS ON LANDFORM SLOPE
L530 NO SCALE



3 LONG GRASS PLANTING AT MEADOW (LONG GRASS TYPE I)
L530 NO SCALE



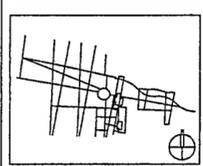
6 PLANTING BED IN PARKING AREA
L530 NO SCALE

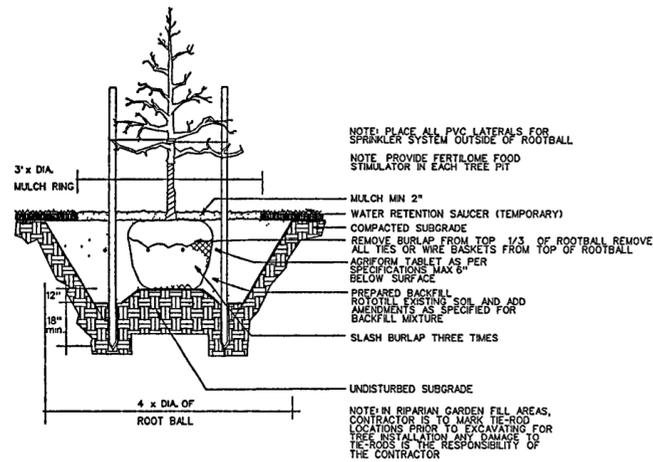


9 STEEL EDGING DETAIL
L530 NO SCALE

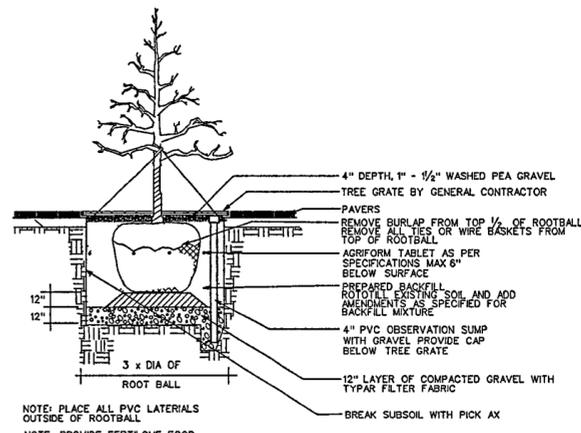


Issue	Date
05 100% Site Package 2 CD	09/27/02
04 30% Site Package 2 CD	09/19/02
03 30% Site Package 2 CD	09/29/02
02 20% Design Development	04/02/02

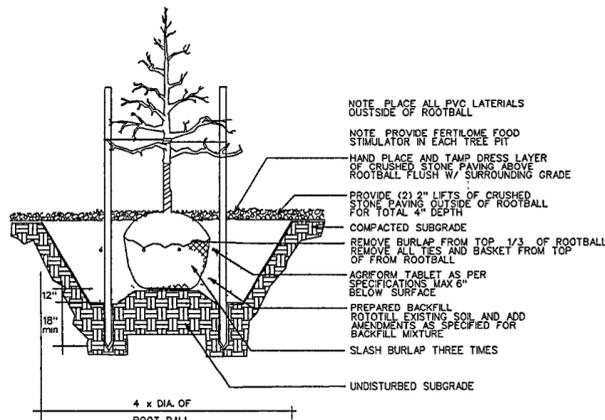




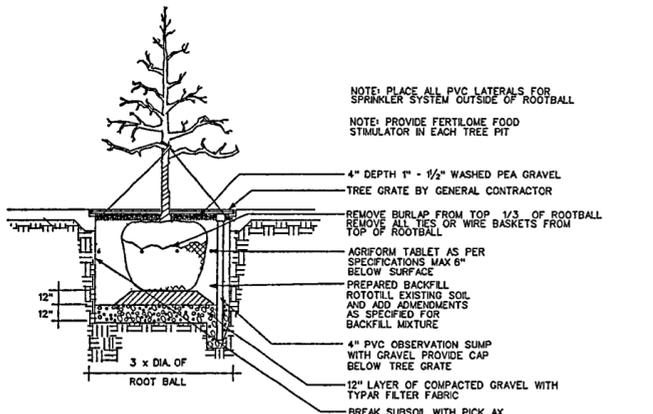
1 TREE PLANTING IN LAWN
L531 NO SCALE



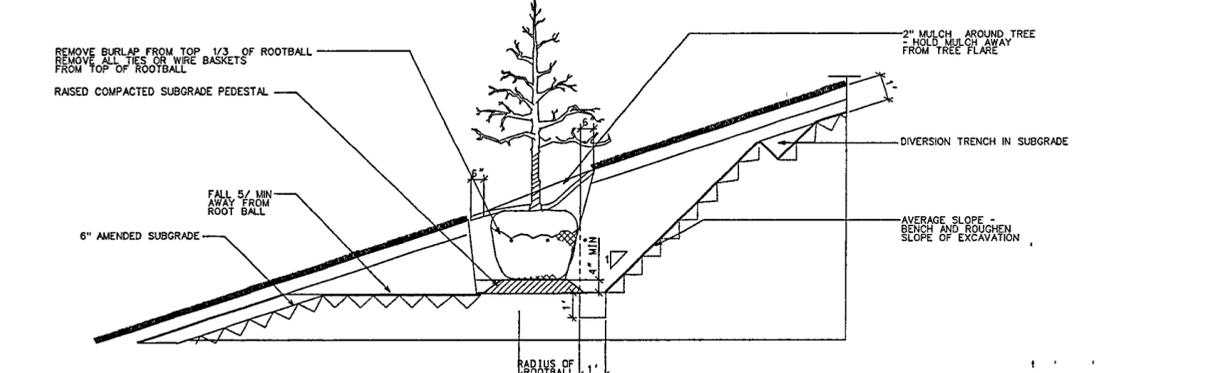
4 TREE PLANTING IN PAVING W/ TREE GRATE
L531 NO SCALE



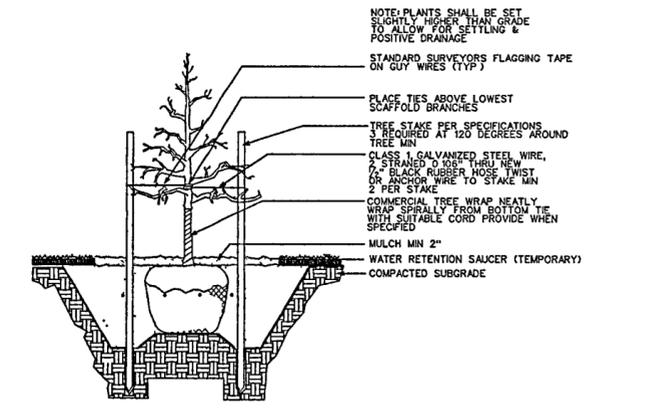
7 TREE PLANTING IN DECOMPOSED GRANITE
L521 NO SCALE



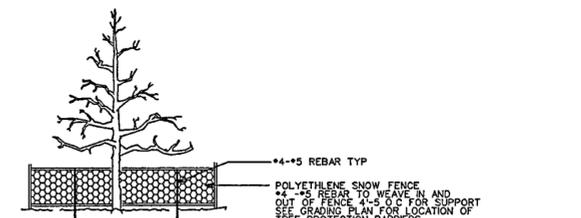
2 TREE PLANTING IN CONCRETE W/ TREE GRATE
L531 NO SCALE



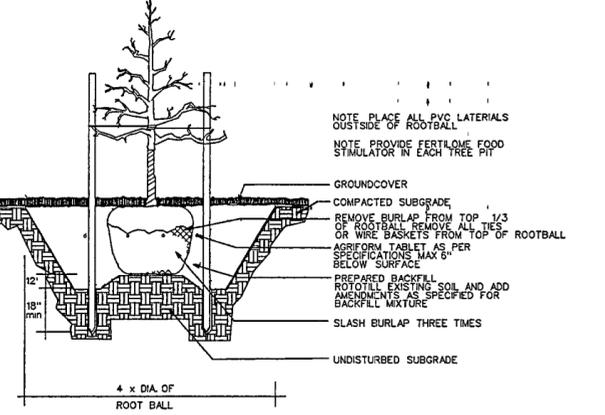
5 TYPICAL INDIVIDUAL TREE DETAIL SLOPES
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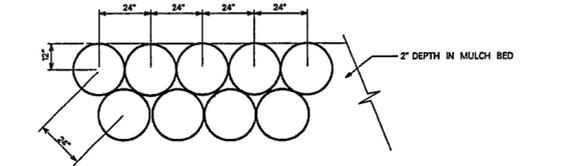
3 TREE STAKING DETAIL
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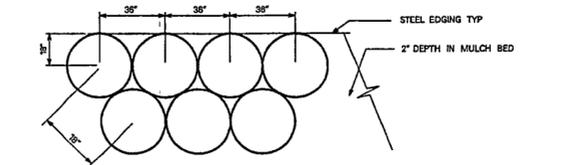
6 TREE PROTECTION DETAIL/ EAST BANK
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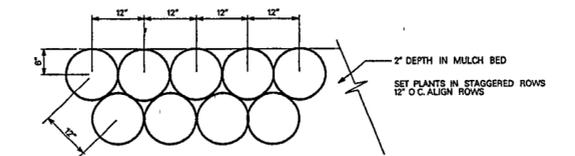
8 TREE PLANTING IN GROUND COVER
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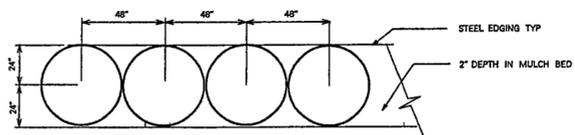
9 TYPICAL SCHOLARS GARDEN HEDGE
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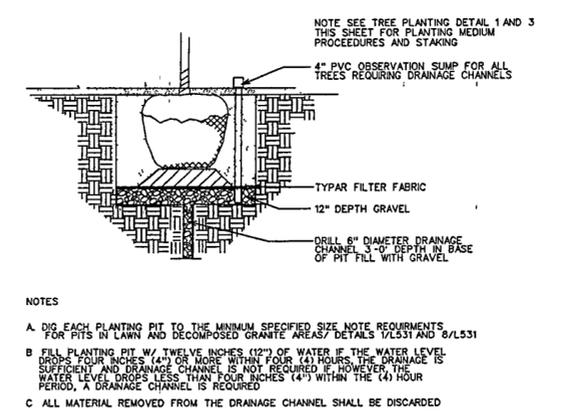
10 TYPICAL BURFORD HOLLY HEDGE
L531 NO SCALE



11 TYPICAL GROUND COVER PLANTING
L531 NO SCALE



12 TYPICAL CONTEMPLATION GROVE HEDGE
L531 NO SCALE



13 DRAINAGE CHANNEL DETAIL
L531 NO SCALE

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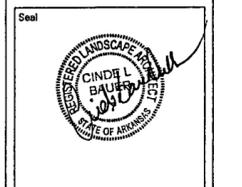
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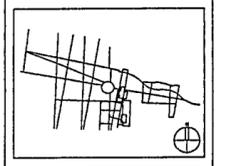
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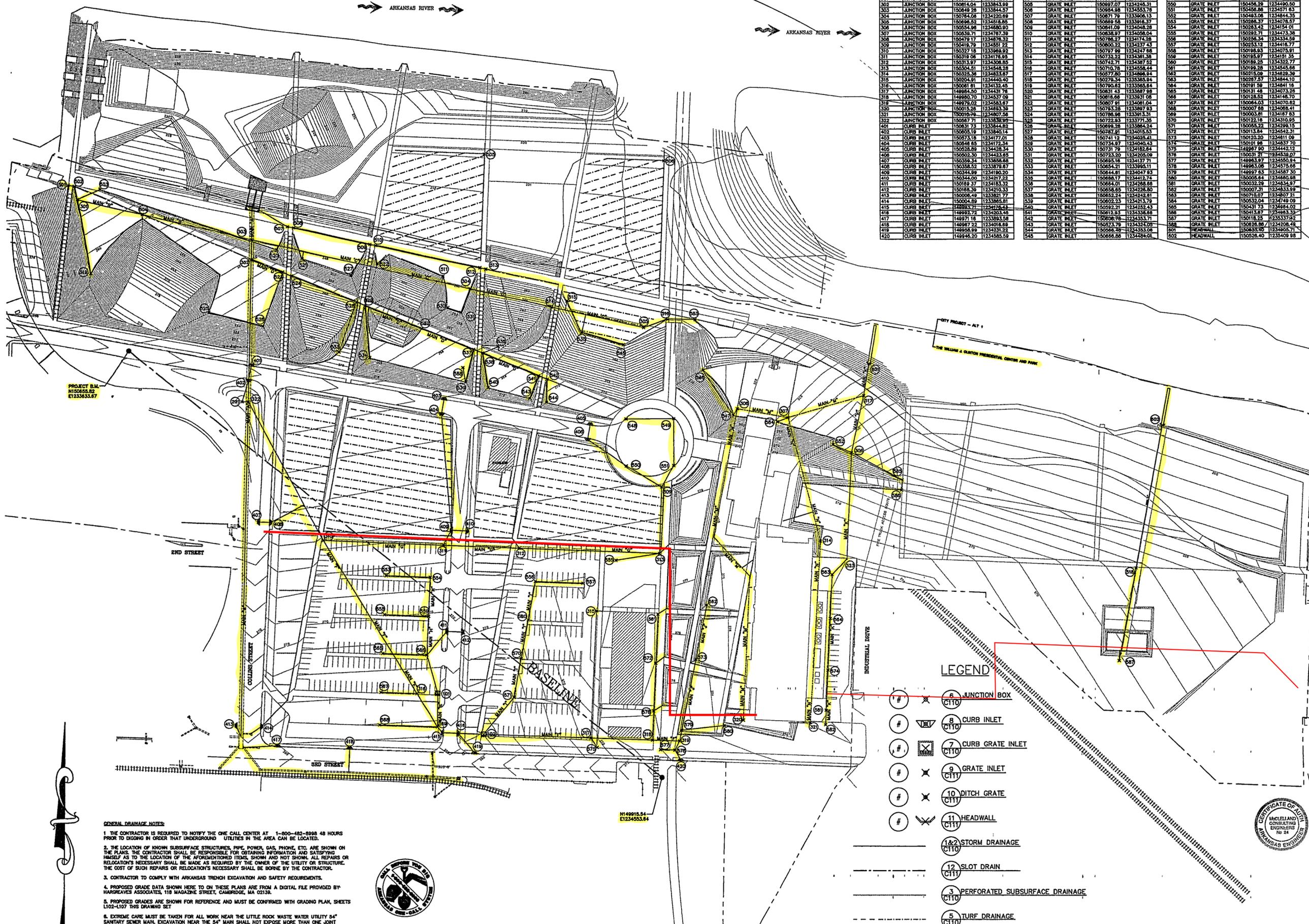
Issue	Date
05 100% Site Package 2 CD	09/27/02
04 50% Site Package 2 CD	08/18/02
03 50% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02



Job No: PPA 8908
Scale: HA CPC/0101
AS NOTED

Date: SEPTEMBER 27 2002
Title: SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
PLANTING DETAILS

Sheet No: L531



Node ID	Description	Northing	Easting	Node ID	Description	Northing	Easting	Node ID	Description	Northing	Easting
101	CURB GRATE INLET	150262.21	1234188.12	501	GRATE INLET	150842.72	1233226.38	848	GRATE INLET	150921.53	1234820.77
102	CURB GRATE INLET	149991.15	1234247.19	502	GRATE INLET	150940.80	1233317.44	847	GRATE INLET	150943.67	1234674.24
103	DITCH GRATE	150587.88	1233328.15	503	GRATE INLET	150943.60	1233356.77	846	GRATE INLET	150937.35	1234489.91
104	JUNCTION BOX	150917.67	1233342.80	504	GRATE INLET	150991.87	1233557.01	845	GRATE INLET	150937.98	1234571.08
105	JUNCTION BOX	150814.04	1233343.89	505	GRATE INLET	150997.07	1234246.31	844	GRATE INLET	150436.29	1234490.50
106	JUNCTION BOX	150849.28	1233344.57	506	GRATE INLET	150998.98	1234353.78	843	GRATE INLET	150406.86	1234571.83
107	JUNCTION BOX	150784.08	1234220.89	507	GRATE INLET	150971.79	1233928.13	842	GRATE INLET	150483.08	1234644.38
108	JUNCTION BOX	150898.82	1234518.85	508	GRATE INLET	150889.58	1233916.37	841	GRATE INLET	150296.37	1234078.57
109	JUNCTION BOX	150554.98	1234680.90	509	GRATE INLET	150841.09	1234048.28	840	GRATE INLET	150283.42	1234154.01
110	JUNCTION BOX	150536.71	1234787.38	510	GRATE INLET	150838.97	1234058.04	839	GRATE INLET	150292.71	1234173.58
111	JUNCTION BOX	150479.17	1234878.32	511	GRATE INLET	150786.27	1234174.28	838	GRATE INLET	150264.34	1234244.58
112	JUNCTION BOX	150418.79	1234851.22	512	GRATE INLET	150800.22	1234237.43	837	GRATE INLET	150233.12	1234416.77
113	JUNCTION BOX	150327.18	1233988.92	513	GRATE INLET	150797.99	1234247.68	836	GRATE INLET	150198.83	1234075.91
114	JUNCTION BOX	150318.08	1234178.85	514	GRATE INLET	150733.22	1234381.38	835	GRATE INLET	150185.97	1234191.35
115	JUNCTION BOX	150313.07	1234308.05	515	GRATE INLET	150742.71	1234387.82	834	GRATE INLET	150188.25	1234322.77
116	JUNCTION BOX	150304.61	1234548.28	516	GRATE INLET	150710.78	1234558.44	833	GRATE INLET	150199.28	1234545.88
117	JUNCTION BOX	150325.38	1234833.87	517	GRATE INLET	150677.80	1234688.84	832	GRATE INLET	150215.09	1234628.59
118	JUNCTION BOX	150304.91	1234460.40	518	GRATE INLET	150726.34	1234383.84	831	GRATE INLET	150297.57	1234844.10
119	JUNCTION BOX	150081.81	1234332.45	519	GRATE INLET	150700.83	1234366.84	830	GRATE INLET	150191.59	1234841.18
120	JUNCTION BOX	149984.50	1234431.78	520	GRATE INLET	150681.43	1234387.68	829	GRATE INLET	150148.48	1234073.28
121	JUNCTION BOX	149980.70	1234537.09	521	GRATE INLET	150618.69	1234383.08	828	GRATE INLET	150188.52	1234148.70
122	JUNCTION BOX	149979.02	1234583.38	522	GRATE INLET	150707.91	1234091.04	827	GRATE INLET	150084.03	1234078.82
123	JUNCTION BOX	150015.28	1234693.38	523	GRATE INLET	150793.28	1233897.93	826	GRATE INLET	150068.41	1234068.41
124	JUNCTION BOX	150016.78	1234807.58	524	GRATE INLET	150786.98	1233913.51	825	GRATE INLET	150033.81	1234187.83
125	JUNCTION BOX	150067.71	1233876.85	525	GRATE INLET	150722.93	1233771.59	824	GRATE INLET	150122.19	1234310.95
401	CURB INLET	150831.73	1233844.82	526	GRATE INLET	150698.28	1233864.24	823	GRATE INLET	150055.22	1234299.15
402	CURB INLET	150805.19	1233840.14	527	GRATE INLET	150787.97	1234015.53	822	GRATE INLET	150133.84	1234542.31
403	CURB INLET	150733.19	1234177.01	528	GRATE INLET	150741.17	1234028.41	821	GRATE INLET	150120.20	1234411.09
404	CURB INLET	150548.85	1234172.34	529	GRATE INLET	150734.87	1234040.43	820	GRATE INLET	150111.88	1234537.70
405	CURB INLET	150528.89	1234228.34	530	GRATE INLET	150731.79	1234182.84	819	GRATE INLET	150097.90	1234442.12
406	CURB INLET	150502.30	1234443.85	531	GRATE INLET	150723.50	1234205.09	818	GRATE INLET	150031.21	1234538.07
407	CURB INLET	150358.34	1233888.88	532	GRATE INLET	150692.18	1234171.71	817	GRATE INLET	149983.97	1234550.84
408	CURB INLET	150358.52	1233878.87	533	GRATE INLET	150654.21	1233995.11	816	GRATE INLET	149983.06	1234575.86
409	CURB INLET	150344.99	1234190.20	534	GRATE INLET	150644.81	1234047.93	815	GRATE INLET	149997.63	1234587.50
410	CURB INLET	150344.50	1234277.23	535	GRATE INLET	150618.77	1234411.74	814	GRATE INLET	150055.84	1234602.88
411	CURB INLET	150169.37	1234183.32	536	GRATE INLET	150684.01	1234288.68	813	GRATE INLET	150032.29	1234834.97
412	CURB INLET	150168.39	1234210.33	537	GRATE INLET	150658.65	1234228.80	812	GRATE INLET	150027.31	1234833.99
413	CURB INLET	150098.49	1233821.77	538	GRATE INLET	150652.24	1234242.81	811	GRATE INLET	150016.07	1234807.91
414	CURB INLET	150004.89	1233845.01	539	GRATE INLET	150623.23	1234213.71	810	GRATE INLET	150032.04	1234749.09
415	CURB INLET	149883.77	1234276.43	540	GRATE INLET	150592.21	1234252.43	809	GRATE INLET	150031.73	1234884.02
416	CURB INLET	149892.72	1234203.49	541	GRATE INLET	150612.93	1234338.84	808	GRATE INLET	150043.87	1234883.59
417	CURB INLET	149971.18	1233883.58	542	GRATE INLET	150606.98	1234333.71	807	GRATE INLET	150018.25	1235337.62
418	CURB INLET	149987.22	1234016.89	543	GRATE INLET	150573.70	1234327.02	806	GRATE INLET	150028.86	1234208.48
419	CURB INLET	149858.99	1234231.22	544	GRATE INLET	150568.49	1234353.08	805	GRATE INLET	150035.20	1234905.71
420	CURB INLET	149948.20	1234885.09	545	GRATE INLET	150688.88	1234484.64	802	HEADWALL	150028.40	1235409.88

LEGEND

- 1 JUNCTION BOX
- 2 CURB INLET
- 3 CURB GRATE INLET
- 4 GRATE INLET
- 5 DITCH GRATE
- 6 HEADWALL
- 7 STORM DRAINAGE
- 8 SLOT DRAIN
- 9 PERFORATED SUBSURFACE DRAINAGE
- 10 TURF DRAINAGE
- 11 FOUNDATION / ROOF DRAINAGE

GENERAL DRAINAGE NOTES

- THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8988 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
- THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFORESAID STRUCTURES, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATION'S NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATION'S NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
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- REFER TO TRENCHING DETAILS FOR VARIOUS EMBELEMMENT TYPES.
- PERFORATED AND TURF SUBSURFACE DRAINAGE SHALL HAVE POSITIVE SLOPE AND CONNECT TO INLET BOX AS INDICATED ON PLANS. SURFACE SWALES SHALL BE INCLUDED AT THE BASE OF ALL LANDFORM STRUCTURES AND THE SWALES SHALL DRAIN TO INLET BOXES AS SHOWN ON THE PLANS.



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Seal
 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 WILLIAM J. CLINTON
 No. 5712
 9-27-2022

Issue	Date
05 100% Site Package 2 CD	09/27/02
04 90% Site Package 2 CD	08/16/02
03 60% Site Package 2 CD	08/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02

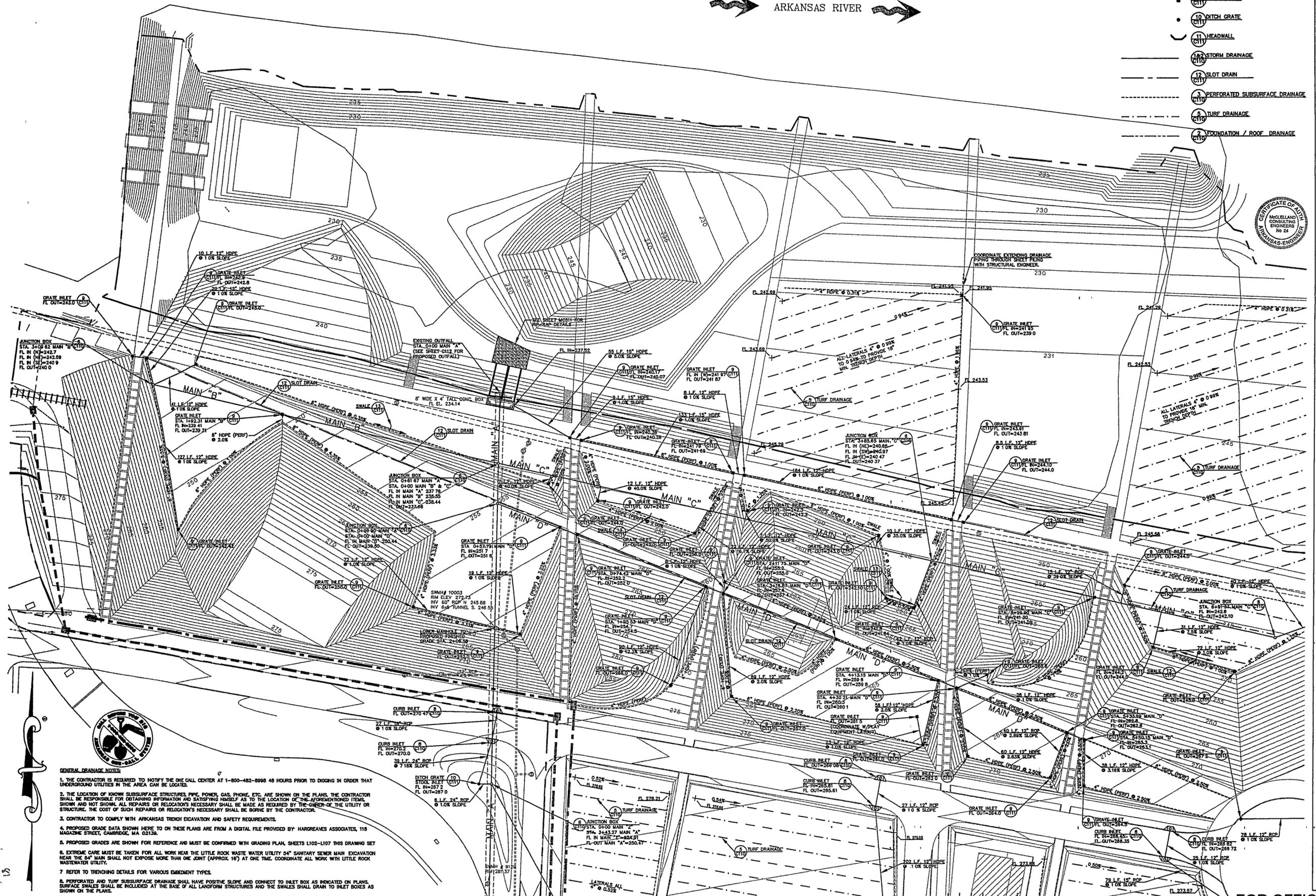
Job No: PPA 8908
 Scale: HA, CP, CD 101
 Date: SEPTEMBER 27, 2002
 Title: **SITE PACKAGE 2 100% CONSTRUCTION DOCUMENTS SITE DRAINAGE PLAN**
 Sheet No: **C101**

FOR OFFICIAL USE ONLY

1" = 60'-0" 0 20 40 60 120 FT

LEGEND

- 6 C110 JUNCTION BOX
- ▽ 8 C110 CURB INLET
- 7 C110 CURB GRATE INLET
- 9 C110 GRATE INLET
- 10 C110 DITCH GRATE
- 11 C110 HEADWALL
- 13 C110 STORM DRAINAGE
- 12 C110 SLOT DRAIN
- 3 C110 PERFORATED SUBSURFACE DRAINAGE
- 5 C110 TURF DRAINAGE
- 2 C110 FOUNDATION / ROOF DRAINAGE



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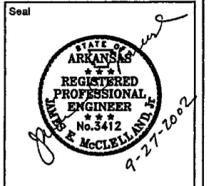
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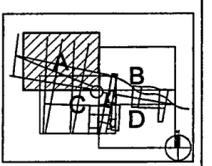
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Issue	Date
05 100% Site Package 2 CD	09/27/02
04 90% Site Package 2 CD	08/16/02
03 50% Site Package 2 CD	06/29/02
02 100% Design Development	04/09/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 9908
HA CPC0101

Scale 1" = 30'-0"

Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE DRAINAGE PLAN
AREA "A"**

Sheet No

C102

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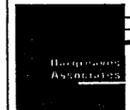
- GENERAL NOTES:**
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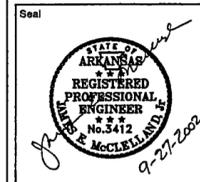
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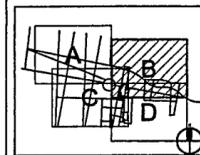
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01 100% Site Package 1 CD	02/15/02



Job No PPA 9906
HA, CPC0101

Scale 1" = 30'-0"

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE DRAINAGE PLAN
AREA "B"

Sheet No

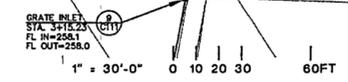
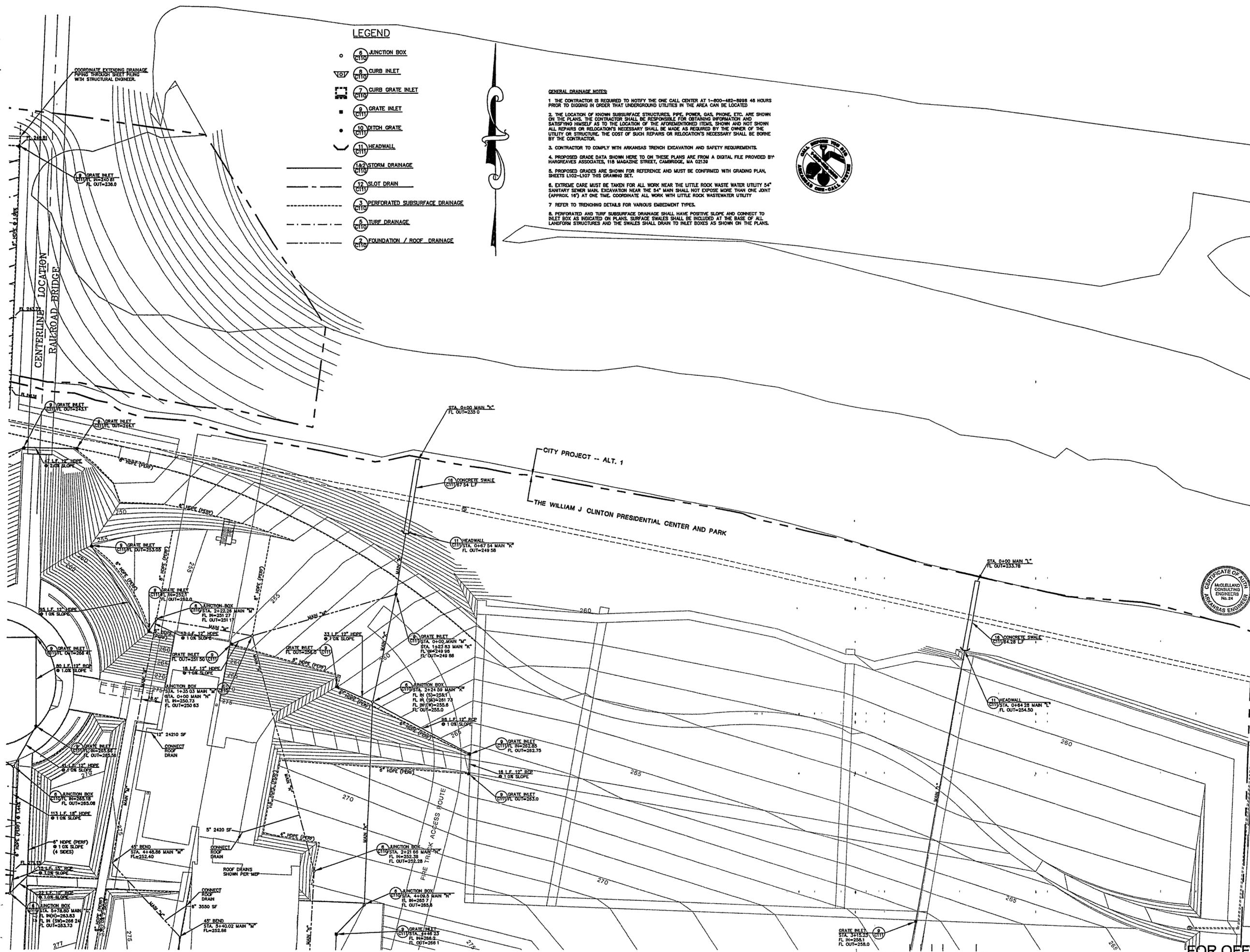
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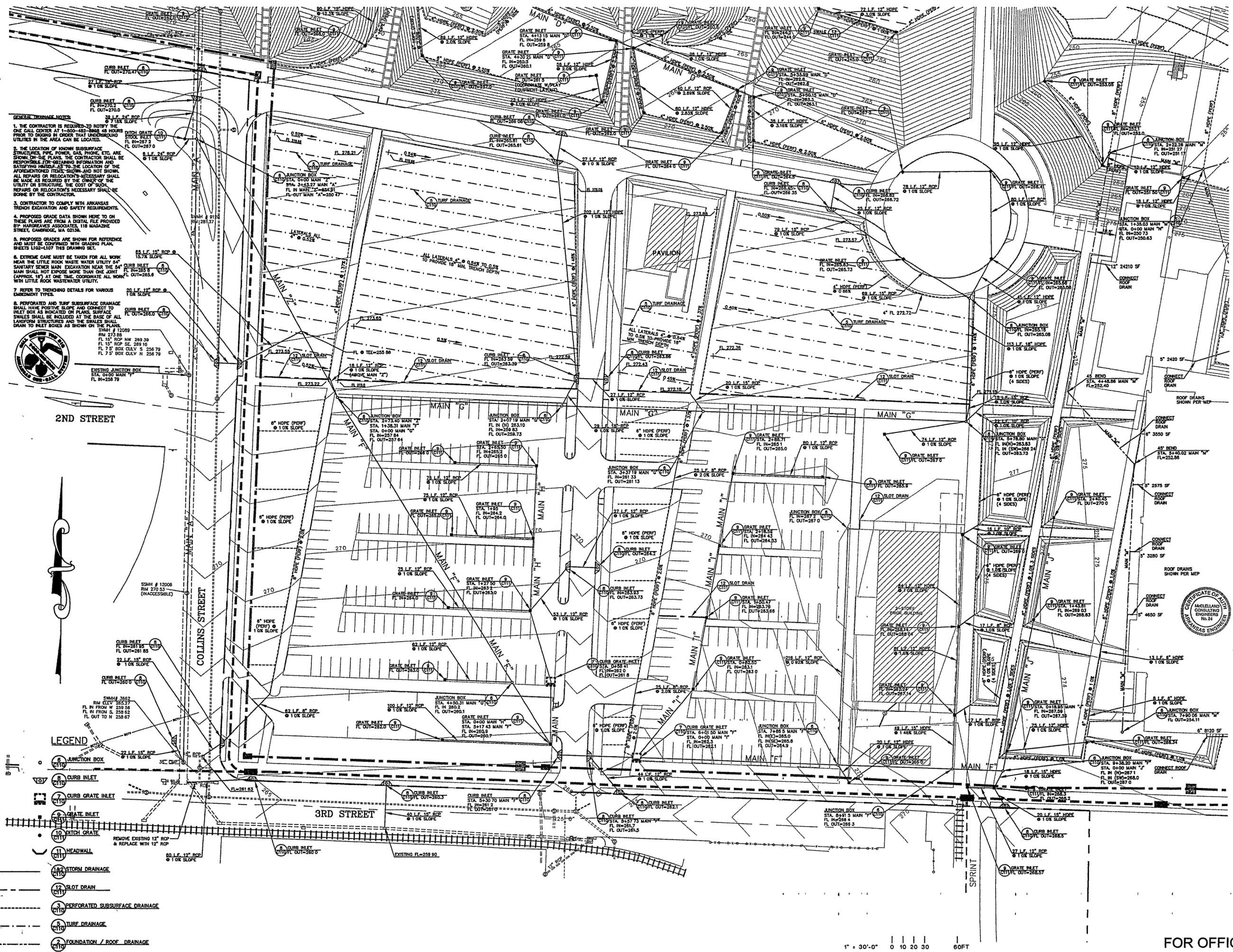
- 6 JUNCTION BOX (C110)
- ▽ 8 CURB INLET (C110)
- 7 CURB GRATE INLET (C110)
- 9 GRATE INLET (C111)
- 10 DITCH GRATE (C111)
- 11 HEADWALL (C111)
- 12 STORM DRAINAGE (C110)
- 13 SLOT DRAIN (C111)
- 3 PERFORATED SUBSURFACE DRAINAGE (C110)
- 5 TURF DRAINAGE (C110)
- 7 FOUNDATION / ROOF DRAINAGE (C110)

GENERAL DRAINAGE NOTES

- THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8898 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
- THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFORESAID ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATION'S NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATION'S NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR TO COMPLY WITH ARKANSAS TRENCH EXCAVATION AND SAFETY REQUIREMENTS.
- PROPOSED GRADE DATA SHOWN HERE TO ON THESE PLANS ARE FROM A DIGITAL FILE PROVIDED BY HARGREAVES ASSOCIATES, 118 MAGAZINE STREET, CAMBRIDGE, MA 02139
- PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET.
- EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN. EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 18") AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY.
- REFER TO TRENCHING DETAILS FOR VARIOUS EMBEDMENT TYPES.
- PERFORATED AND TURF SUBSURFACE DRAINAGE SHALL HAVE POSITIVE SLOPE AND CONNECT TO INLET BOX AS INDICATED ON PLANS. SURFACE SWALES SHALL BE INCLUDED AT THE BASE OF ALL LANDFORM STRUCTURES AND THE SWALES SHALL DRAIN TO INLET BOXES AS SHOWN ON THE PLANS.



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- GENERAL DRAINAGE NOTES**
1. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8868 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
 2. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFORESAID ITEMS, SHOWING AND NOT SHOWING ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATIONS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
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 5. PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET.
 6. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN EXCAVATION NEAR THE 54" MAIN SHALL NOT EXCEED MORE THAN ONE JOINT (APPROX. 18") AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTE WATER UTILITY.
 7. REFER TO TRENCHING DETAILS FOR VARIOUS EMBEDEDMENT TYPES.
 8. PERFORATED AND TURF SUBSURFACE DRAINAGE SHALL HAVE POSITIVE SLOPE AND CONNECT TO INLET BOX AS INDICATED ON PLANS. SURFACE SWALES SHALL BE INCLUDED AT THE BASE OF ALL LANDFORM STRUCTURES AND THE SWALES SHALL DRAIN TO INLET BOXES AS SHOWN ON THE PLANS.



2ND STREET

LEGEND

- 1 JUNCTION BOX
- 2 CURB INLET
- 3 CURB GRATE INLET
- 4 GRATE INLET
- 5 DITCH GRATE
- 6 HEADWALL
- 7 STORM DRAINAGE
- 8 SLOT DRAIN
- 9 PERFORATED SUBSURFACE DRAINAGE
- 10 TURF DRAINAGE
- 11 FOUNDATION / ROOF DRAINAGE

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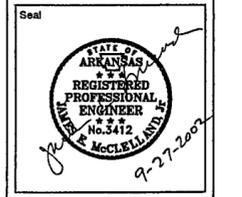
Electrical Engineer
CROMWELL ARCHITECTS ENGINEERS
101 South Spring Street
Little Rock, Arkansas 72201
501 372 2900

Marine + Structural Engineers
MOFFATT & NICHOL ENGINEERS
1916 East Millbrook Road, Suite 160
Raleigh, North Carolina 27609
919 781 4626

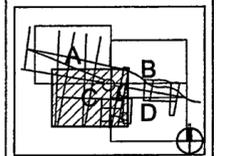
Fountain
DAN EUSER WATERARCHITECTURE INC.
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
7 Fairway Road
Acton, Massachusetts 01720
978 263 1090

Signage Design
POULIN + MORRIS
286 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332



Issue	Date
05 100% Site Package 2 CD	09/27/02
04 90% Site Package 2 CD	09/16/02
03 80% Site Package 2 CD	08/28/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 9008
HA CPC0101

Scale 1" = 30'-0"

Date SEPTEMBER 27, 2002

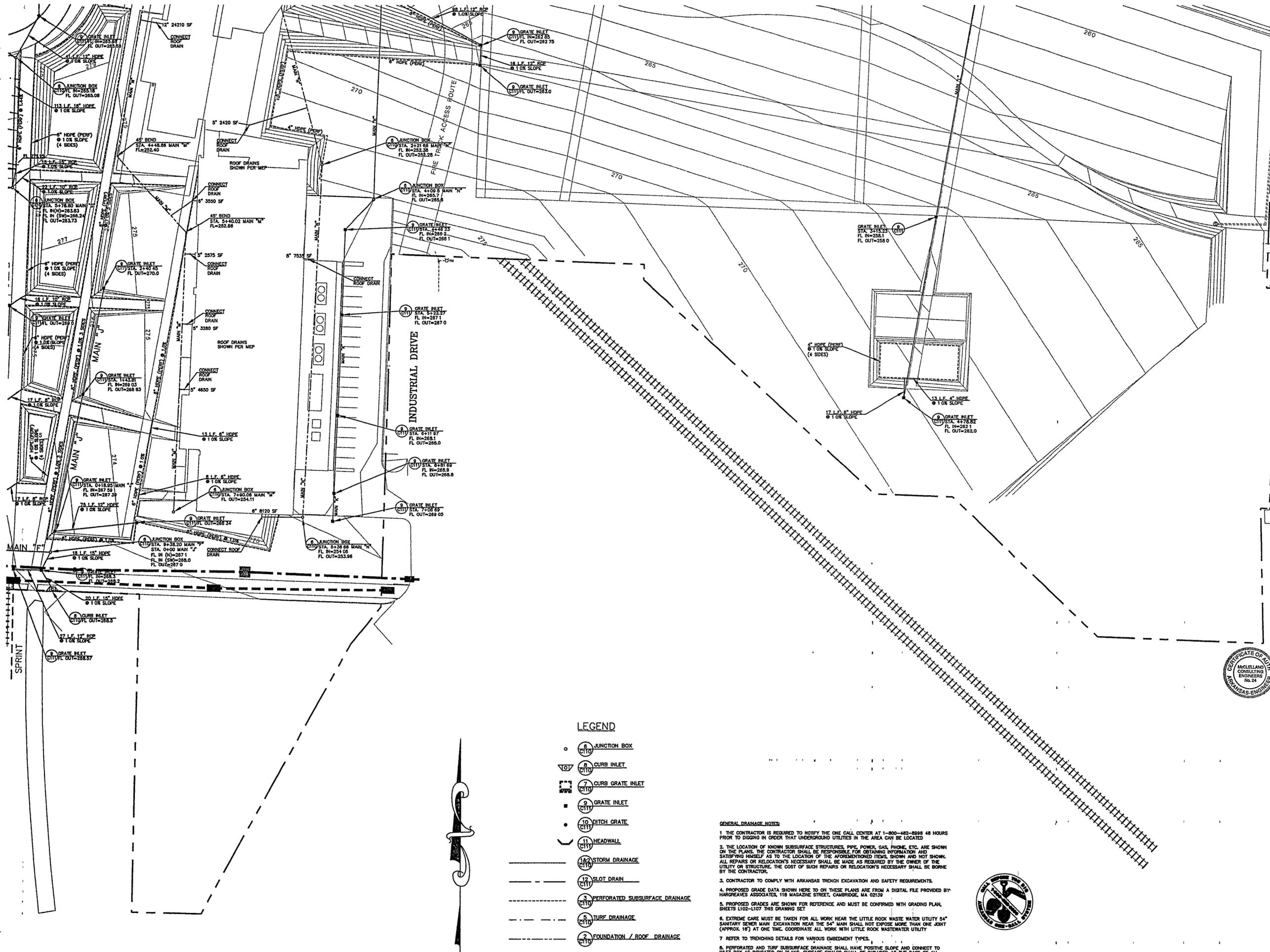
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE DRAINAGE PLAN
AREA "C"

Sheet No

C104

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1" = 30'-0" 0 10 20 30 60FT



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 212 675 1332



- LEGEND**
- (C110) JUNCTION BOX
 - ▽ (C110) CURB INLET
 - (C110) CURB GRATE INLET
 - (C111) GRATE INLET
 - (C111) DITCH GRATE
 - (C111) HEADWALL
 - (C110) STORM DRAINAGE
 - (C110) SLOT DRAIN
 - (C110) PERFORATED SUBSURFACE DRAINAGE
 - (C110) TURF DRAINAGE
 - (C110) FOUNDATION / ROOF DRAINAGE

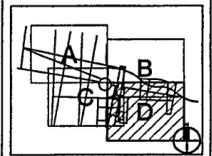
GENERAL DRAINAGE NOTES

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1" = 30'-0" 0 10 20 30 60FT

Issue	Date
05 100% Site Package 2 CD	08/27/02
04 90% Site Package 2 CD	08/16/02
03 80% Site Package 2 CD	08/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02

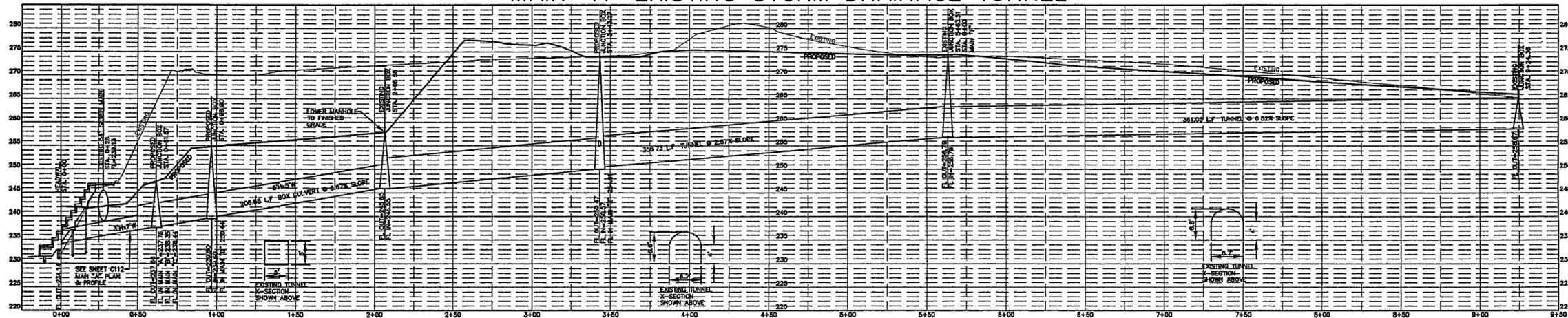


Job No PPA 9908
 HA, CPC0101
 Scale 1" = 30'-0"
 Date SEPTEMBER 27, 2002
 Title **SITE PACKAGE 2
 100% CONSTRUCTION DOCUMENTS
 SITE DRAINAGE PLAN
 AREA "D"**
 Sheet No

C105

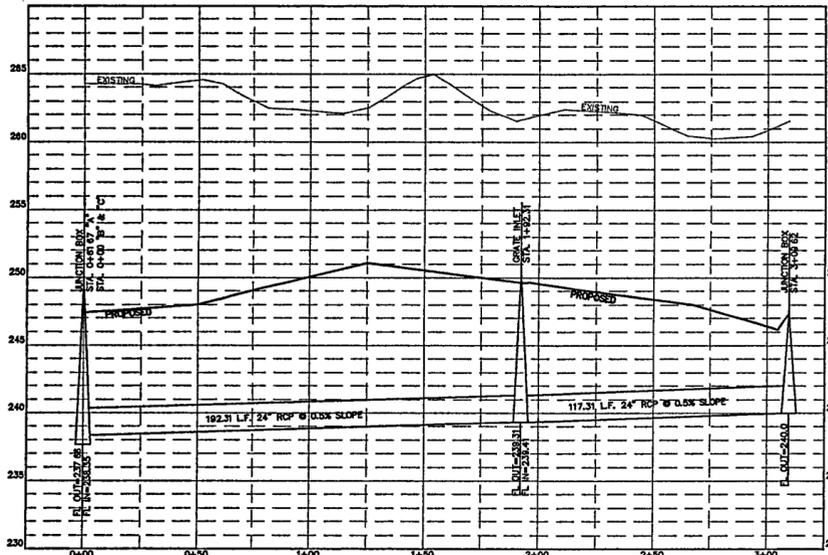
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MAIN "A" EXISTING STORM DRAINAGE TUNNEL



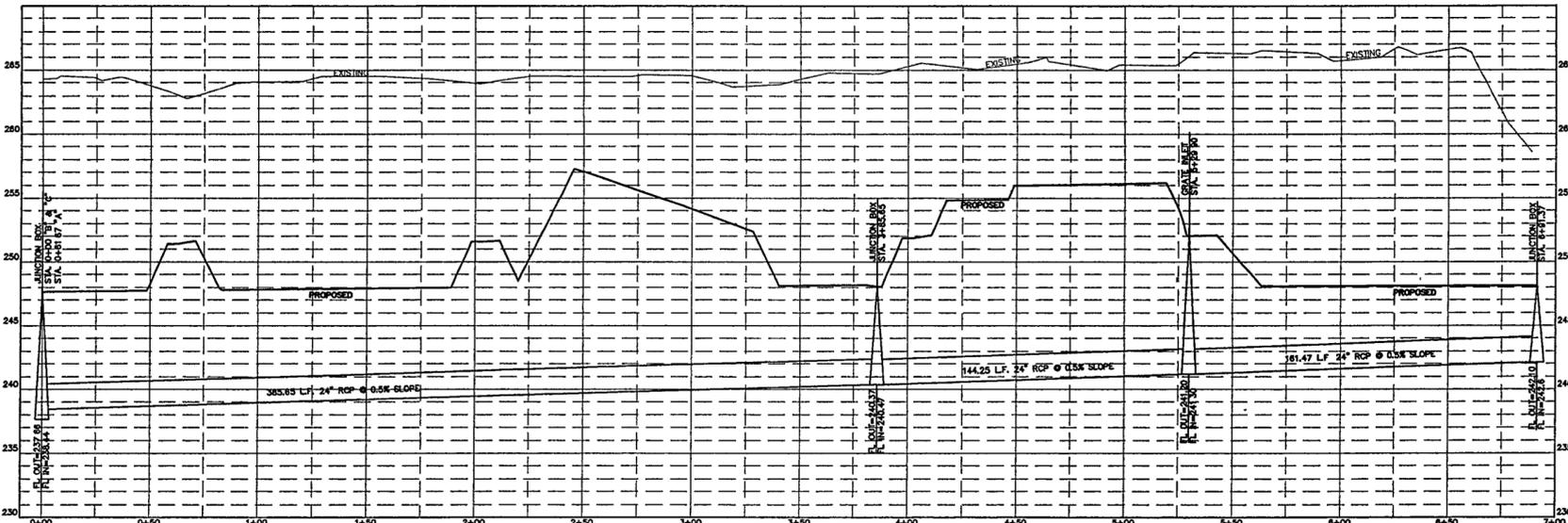
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HORZ: 1"=30'

MAIN "B"



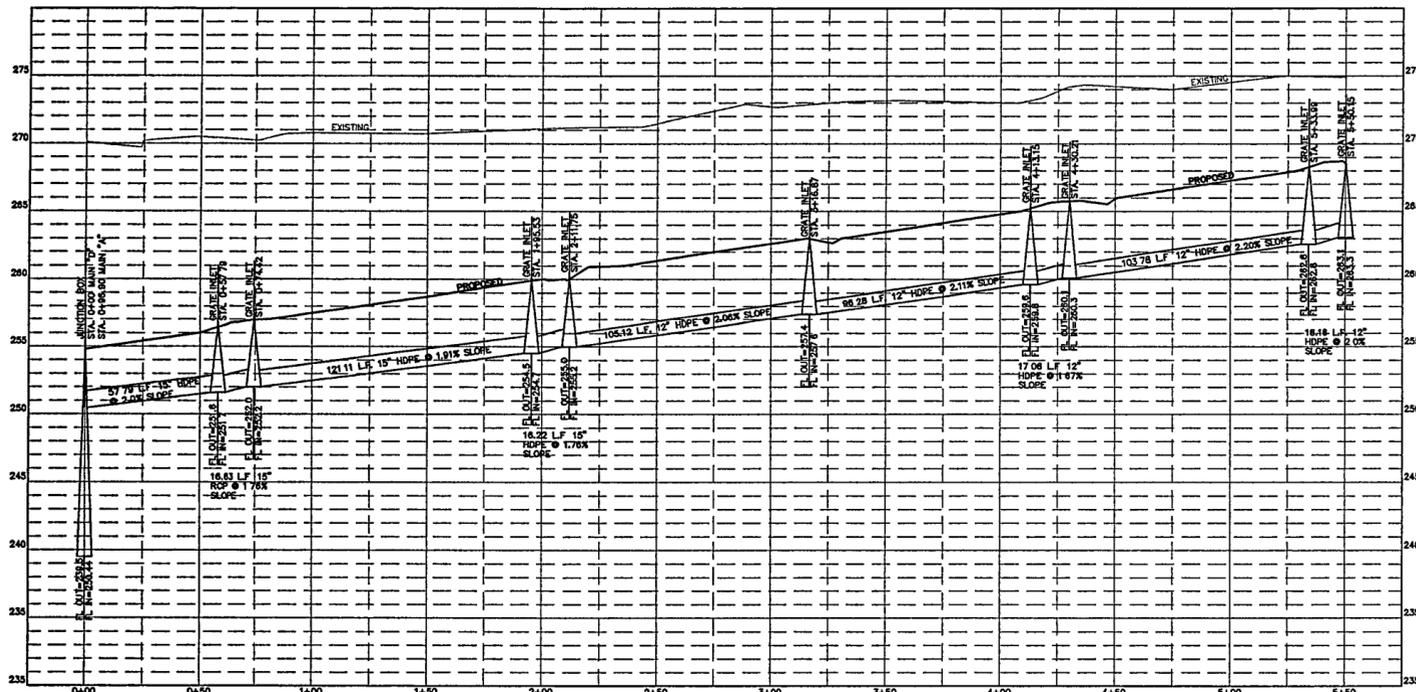
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HORZ: 1"=30'

MAIN "C"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

MAIN "D"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

NOTE:
PROPOSED GRADES ARE
SHOWN FOR REFERENCE
AND MUST BE CONFIRMED
WITH GRADING PLAN.

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Fountain

DAN EUSER WATERARCHITECTURE INC.
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4178

Playground Design

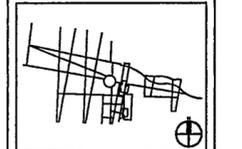
PLAY SITE ARCHITECTURE
7 Fairway Road
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978.263.1090

Signage Design

POULIN + MORRIS
288 Spring Street, Sixth Floor
New York, New York 10013
212.675.1332



Issue	Date
05 100% Site Package 2 CD	09/27/02
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03 60% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 8908
HA, CPC0101

Scale AS SHOWN

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
DRAINAGE PROFILES

Sheet No

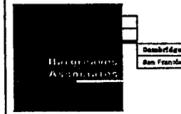
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900 W Markham Street
Little Rock, Arkansas 72201
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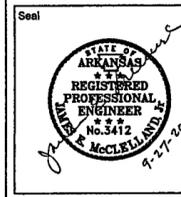
Electrical Engineer
CROMWELL ARCHITECTS ENGINEERS
101 South Spring Street
Little Rock, Arkansas 72201
501.372.2800

Manne + Structural Engineers
MOFFATT & NICHOL ENGINEERS
1516 East Millbrook Road, Suite 160
Raleigh, North Carolina 27609
919 781 4828

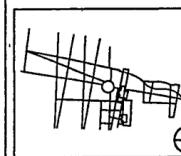
Fountain
DAN ELUSER WATERARCHITECTURE INC.
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884-4176

Playground Design
PLAY SITE ARCHITECTURE
7 Fairway Road
Acton, Massachusetts 01720
978.283.1090

Signage Design
POULIN + MORRIS
285 Spring Street, Sixth Floor
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212 675 1332



Issue	Date
05 100% Site Package 2 CD	09/27/02
04 80% Site Package 2 CD	08/16/02
03 60% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 6908
HA, CPG0101

Scale AS SHOWN

Date SEPTEMBER 27, 2002

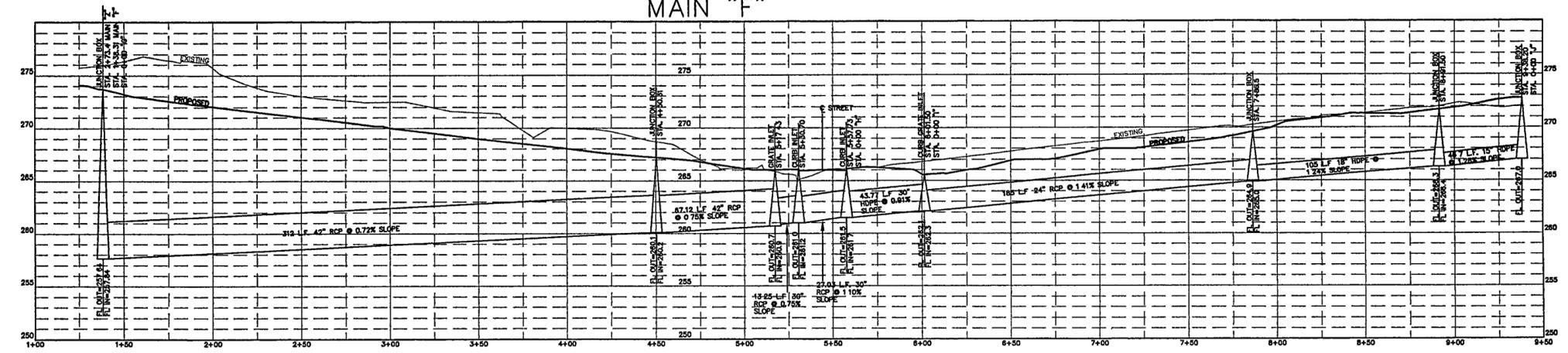
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
DRAINAGE PROFILES

Sheet No.

C107

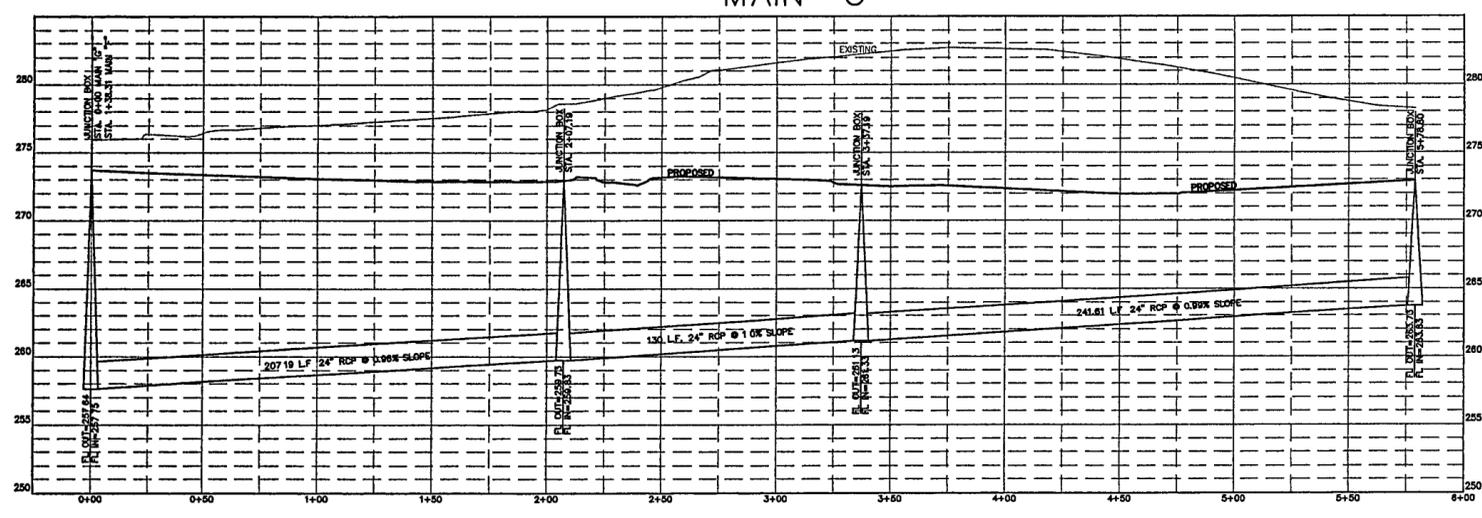
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MAIN "F"



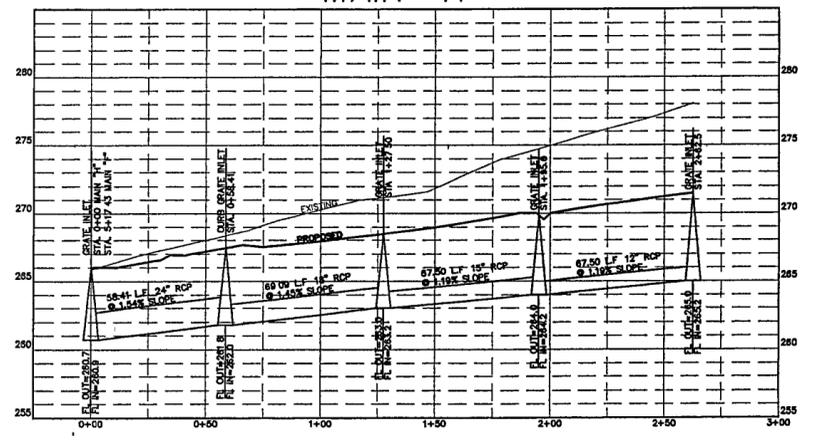
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HORZ: 1"=30'

MAIN "G"



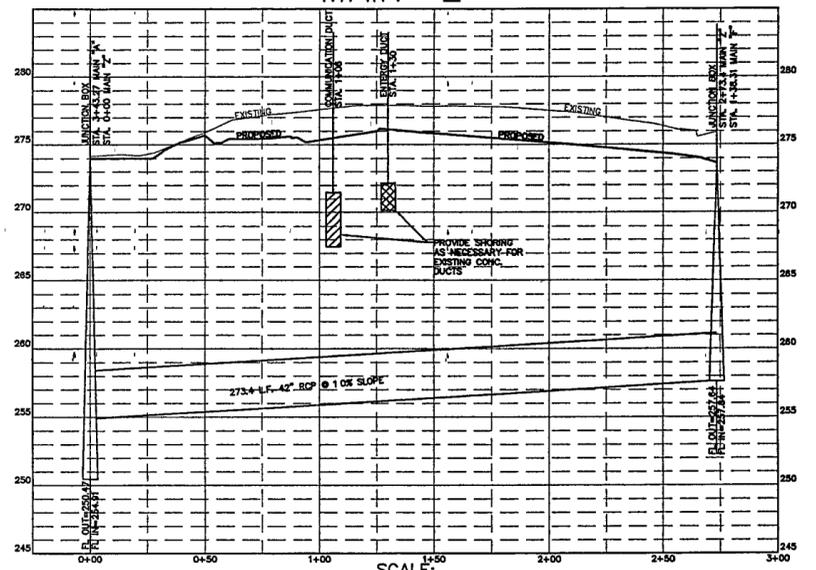
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HORZ: 1"=30'

MAIN "H"



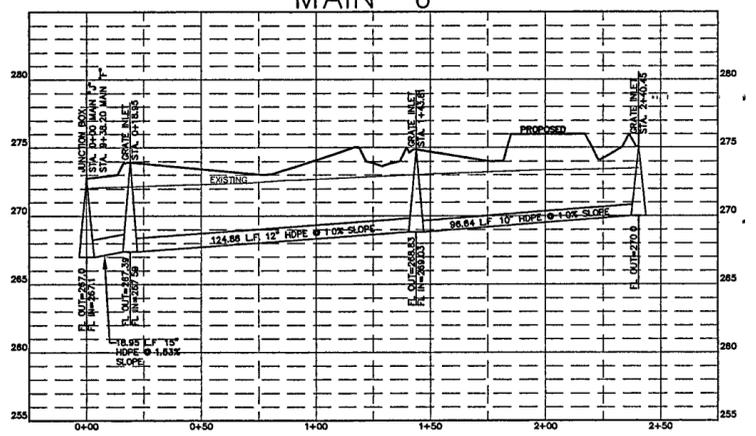
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MAIN "Z"



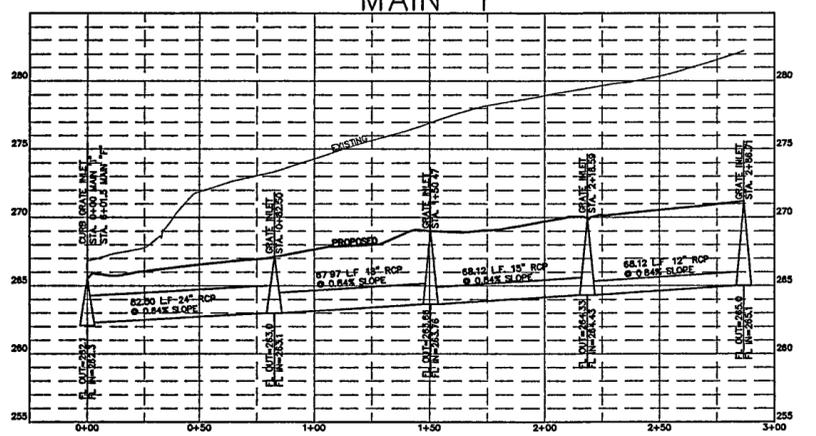
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MAIN "J"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

MAIN "I"

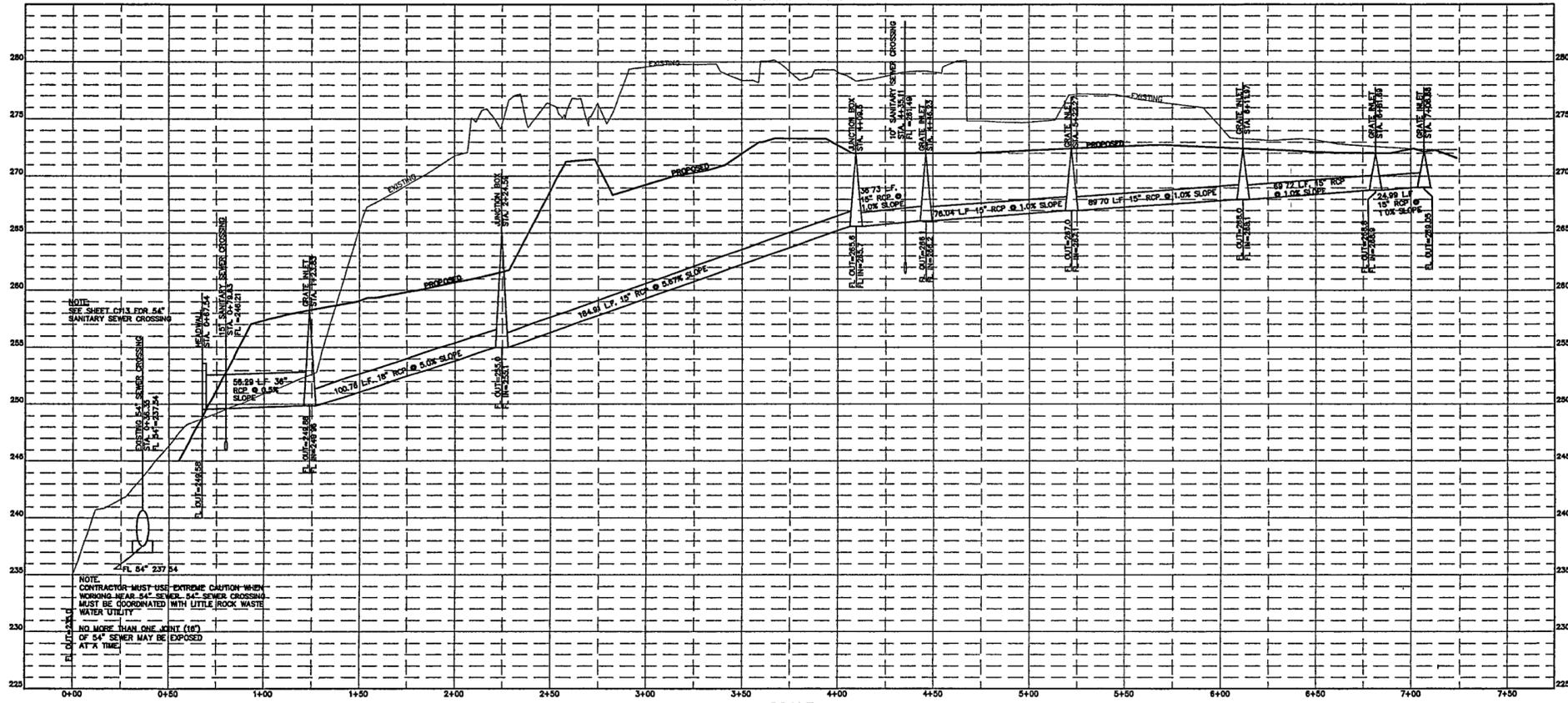


SCALE:
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HORZ: 1"=30'

NOTE:
REFER TO MAIN "I" ON THIS
SHEET FOR CONNECTION TO
EXISTING TUNNEL.

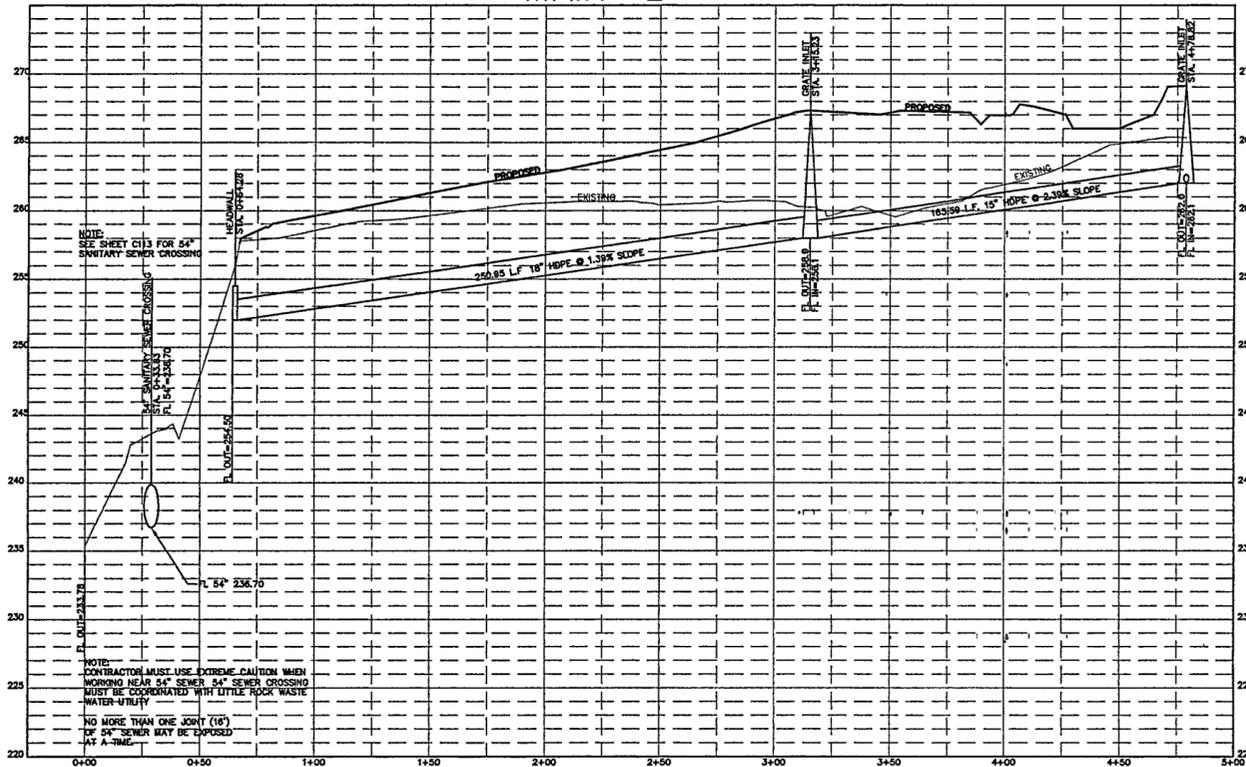
NOTE:
PROPOSED GRADES ARE
SHOWN FOR REFERENCE
AND MUST BE CONFIRMED
WITH GRADING PLAN.

MAIN "K"



SCALE:
VERT: 1"=5'
HORIZ: 1"=30'

MAIN "L"



SCALE:
VERT: 1"=5'
HORIZ: 1"=30'

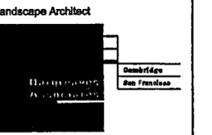
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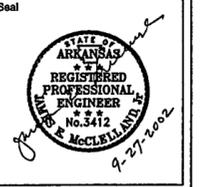
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919.781.4828

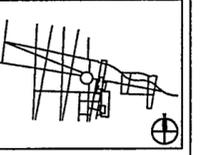
Fountain
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Issue	Date
05 100% Site Package 2 CD	09/27/02
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Job No PPA 8908
HA, CPC0101

Scale AS SHOWN

Date SEPTEMBER 27, 2002

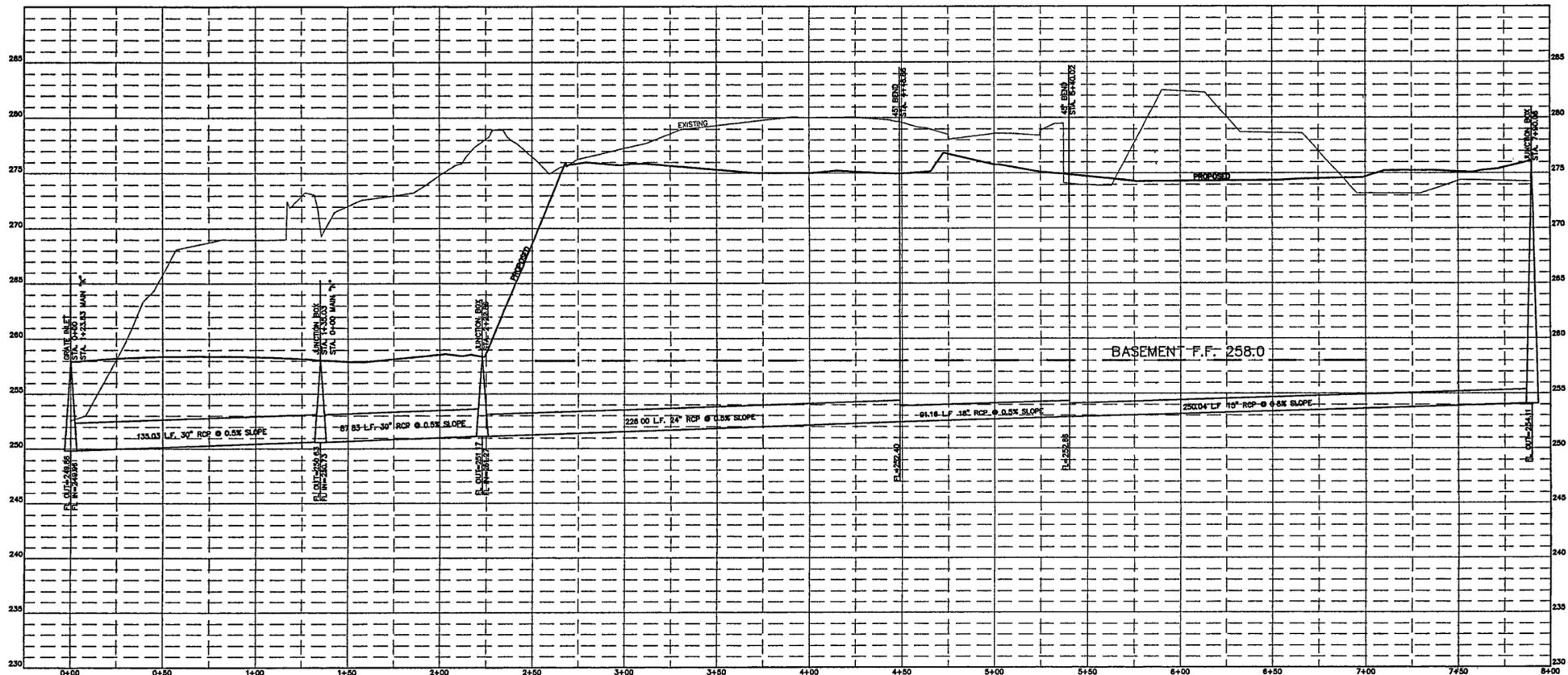
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
DRAINAGE PROFILES

Sheet No.

C108

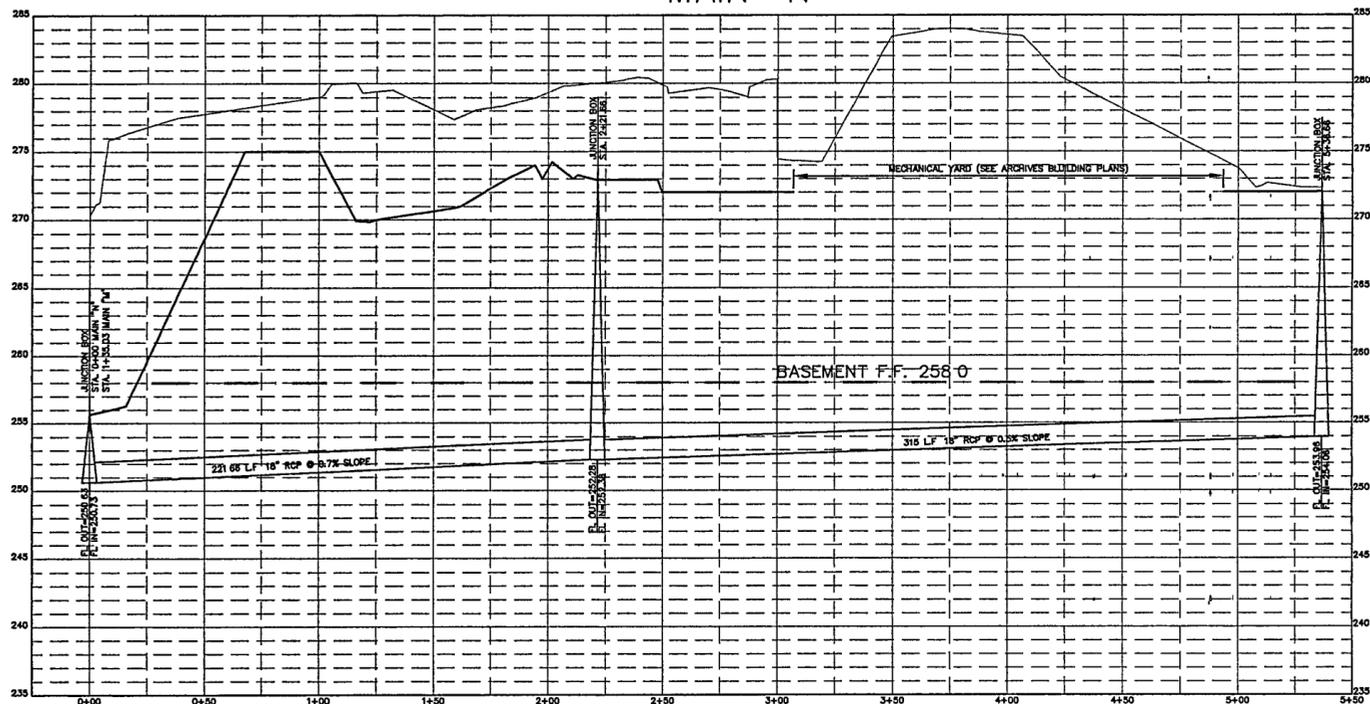
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MAIN "M"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

MAIN "N"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

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Seal

05 100% Site Package 2 CD 09/27/02
04 80% Site Package 2 CD 08/10/02
03 60% Site Package 2 CD 08/29/02
02 100% Design Development 04/01/02
01 100% Site Package 1 CD 02/15/02

Issue Date

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HA CPC0101

Scale AS SHOWN

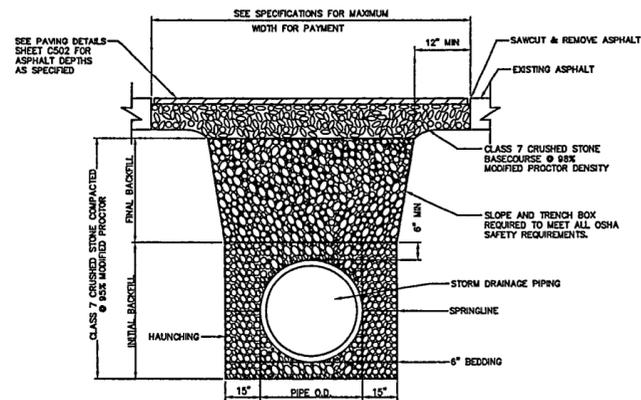
Date SEPTEMBER 27, 2002

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100% CONSTRUCTION DOCUMENTS
DRAINAGE PROFILES

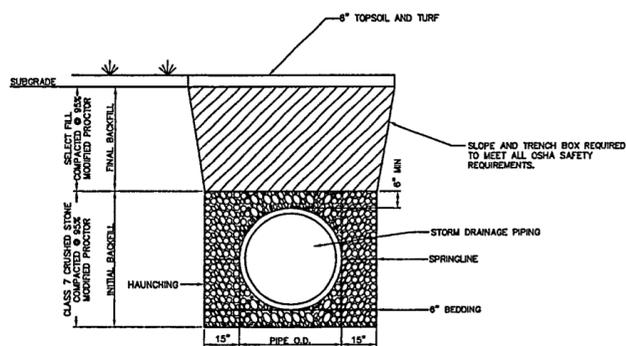
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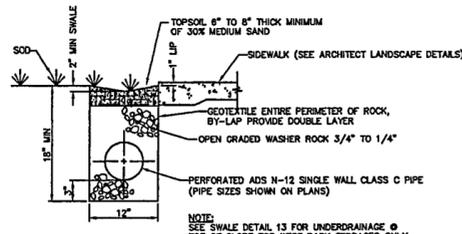
FOR OFFICIAL USE ONLY



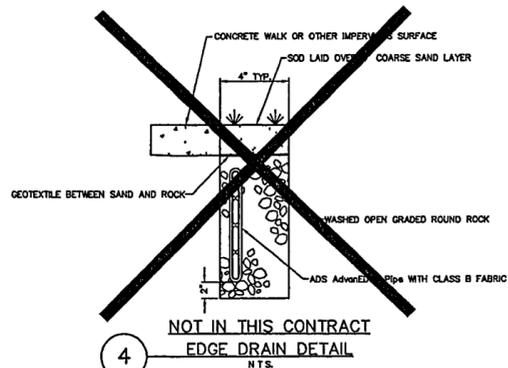
1 STORM DRAINAGE TRENCH DETAIL (UNDER ROADWAY OR NEW PARKING LOT) N.T.S.



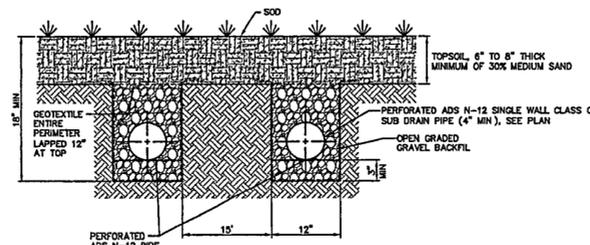
2 STORM DRAINAGE TRENCH DETAIL (NOT UNDER ROADWAY OR PARKING LOT) N.T.S.



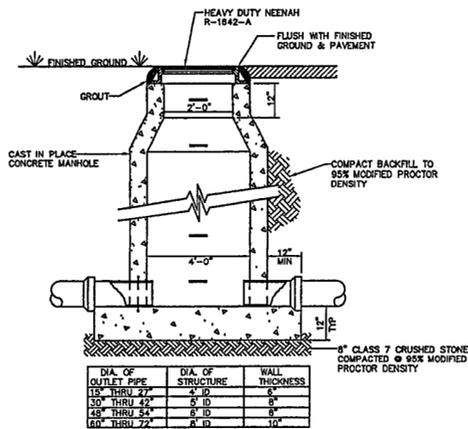
3 PERFORATED SUBSURFACE DRAINAGE DETAIL N.T.S.



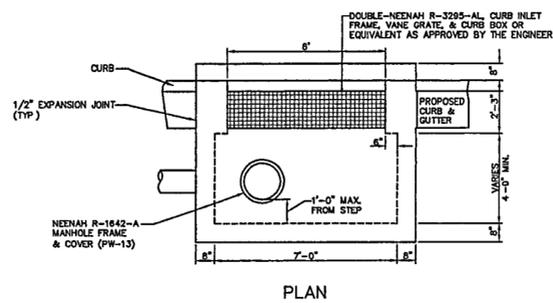
4 NOT IN THIS CONTRACT EDGE DRAIN DETAIL N.T.S.



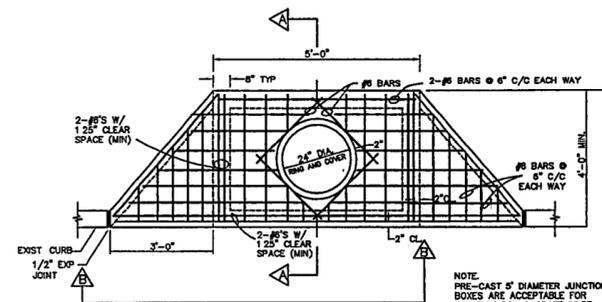
5 TURF DRAINAGE DETAIL N.T.S.



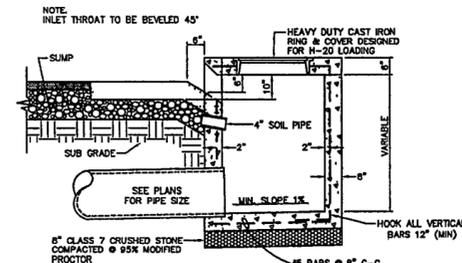
6 JUNCTION BOX DETAIL N.T.S.



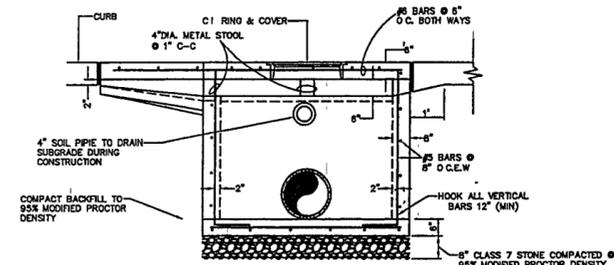
7 CURB GRATE INLET N.T.S.



8 (DOUBLE WING CURB INLET DETAIL) N.T.S.

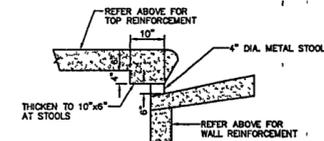


SECTION A-A N.T.S.

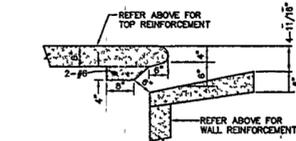


SECTION B-B N.T.S.

NOTE: INSTALL SILT FENCE PER EROSION CONTROL PLAN AROUND ALL INLET/JUNCTION BOXES DURING CONSTRUCTION



9 TYPICAL INLET THROAT DETAIL (@ STOOLS) N.T.S.



10 TYPICAL INLET THROAT DETAIL (BETWEEN STOOLS) N.T.S.



Issue	Date
05 100% Site Package 2 CD	09/27/02
04 90% Site Package 2 CD	08/16/02
03 80% Site Package 2 CD	05/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02

Job No PPA 9908
HA, CPC0101

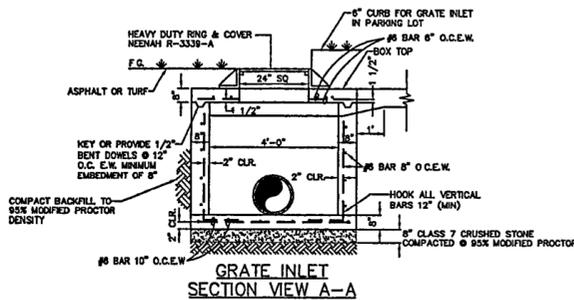
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Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
MISCELLANEOUS
DRAINAGE DETAILS

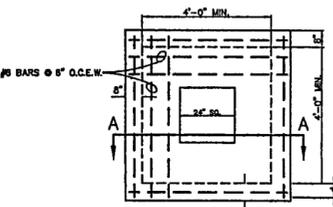
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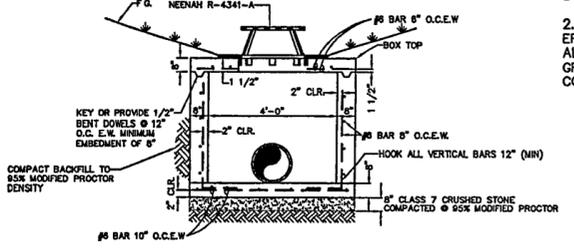


9 GRATE INLET SECTION VIEW A-A
N.T.S.

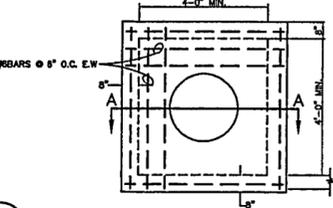
- NOTES:
1. C.I. RING & COVER TO BE 24" HEAVY DUTY TYPE IN PAVED AREAS.
 2. DROP INLETS 3" DEEP & GREATER TO HAVE STANDARD MANHOLE STEPS.
 3. REFER TO JUNCTION BOX IN ASPHALT DETAIL FOR JUNCTION BOXES IN DRIVES & PARKING LOTS



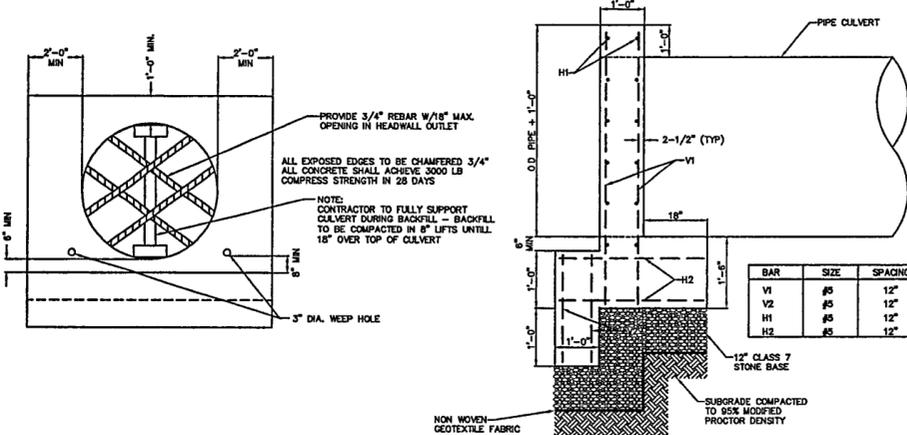
9 GRATE INLET DETAIL PLAN VIEW
N.T.S.



10 DITCH GRATE (STOOL TYPE) DETAIL SECTION VIEW A-A
N.T.S.

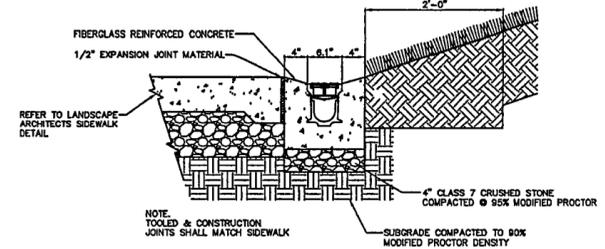


10 DITCH GRATE (STOOL TYPE) DETAIL PLAN VIEW
N.T.S.

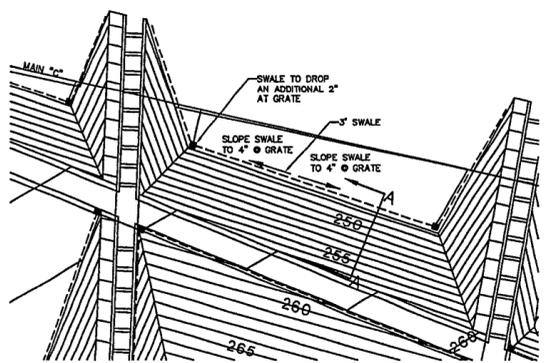


11 PIPE CULVERT HEADWALL
N.T.S.

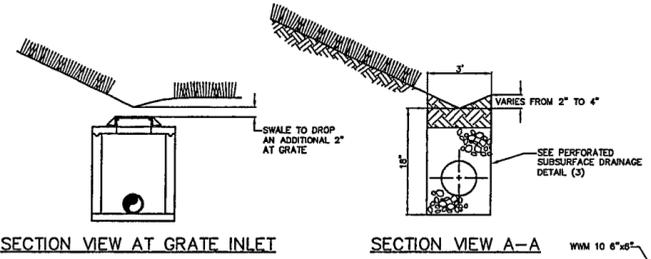
BAR	SIZE	SPACING	LENGTH
V1	#5	12"	VARIES
V2	#5	12"	20"
H1	#5	12"	VARIES
H2	#5	12"	35"



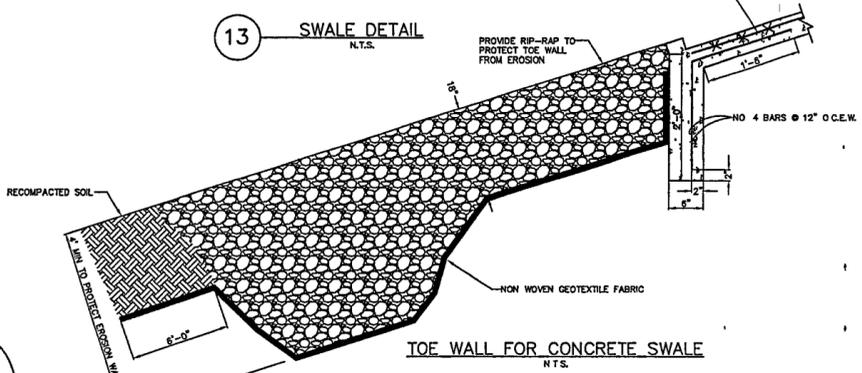
12 SLOT DRAIN (TYP.)
N.T.S.



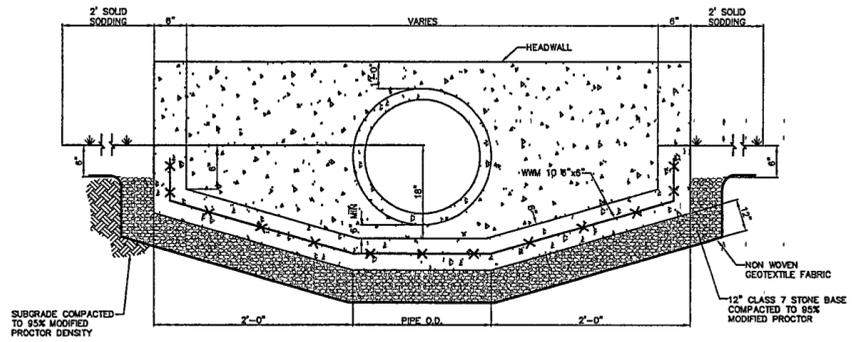
SWALE PLAN VIEW
N.T.S.



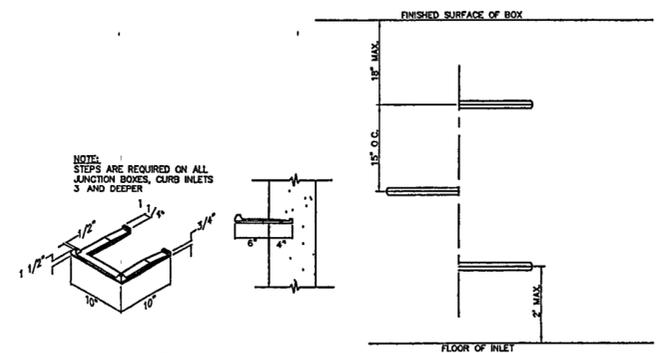
13 SWALE DETAIL
N.T.S.



TOE WALL FOR CONCRETE SWALE
N.T.S.

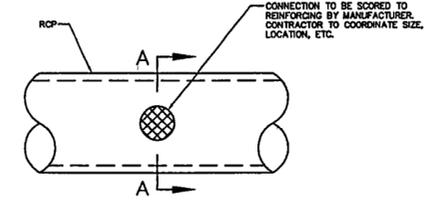


ELEVATION VIEW
N.T.S.

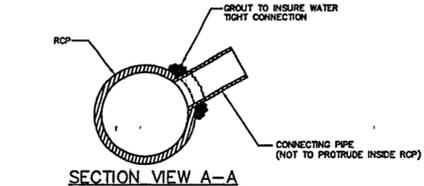


14 MANHOLE STEP DETAIL
N.T.S.

- NOTE: STEPS ARE REQUIRED ON ALL JUNCTION BOXES, CURB INLETS 3" AND DEEPER
- MANHOLE STEPS: CORROSION RESISTANT, COATED, AND REINFORCED WITH STEEL PER ASTM C-478. STEEL REINFORCING MINIMUM 3/8" DIAMETER.
 - ACCEPTABLE MANUFACTURERS:
1. UTILITY PRODUCTS INC. PERMA STEP 100-2
2. IOM INC. POLYPROPYLENE COATED STEPS
3. M.A. INDUSTRIES, INC. POLYPROPYLENE COATED STEPS
4. BOWCO, BY H. BOWEN CO.
 - CAPABLE OF SUPPORTING MINIMUM 300 LB. LOAD.
 - NON-SLIP TEXTURED TREADS.
 - REQUIRED IN ALL STRUCTURES 3'-0" DEEP OR GREATER

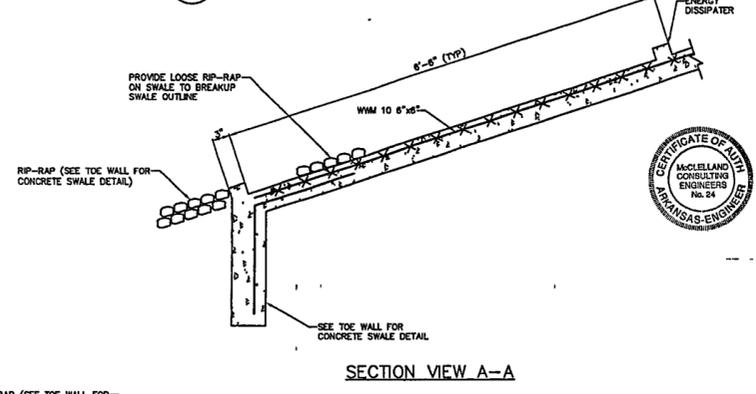


PLAN VIEW

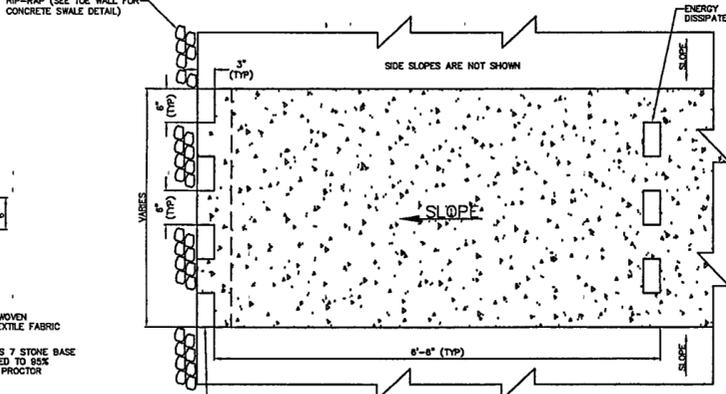


SECTION VIEW A-A

15 RCP CONNECTION DETAIL
N.T.S.



SECTION VIEW A-A



PLAN VIEW
N.T.S.

16 CONCRETE SWALE DETAIL
N.T.S.

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CANADA
905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
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Acton, Massachusetts 01720
978 263 1000

Signage Design
POULIN + MORRIS
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New York, New York 10013
212 675 1332

Seal
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 3412
WILLIAM J. CLINTON
9-27-2002

Issue	Date
05 100% Site Package 2 CD	09/27/02
04 80% Site Package 2 CD	09/16/02
03 60% Site Package 2 CD	08/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02

Job No. PPA 9908
HA CPC0101

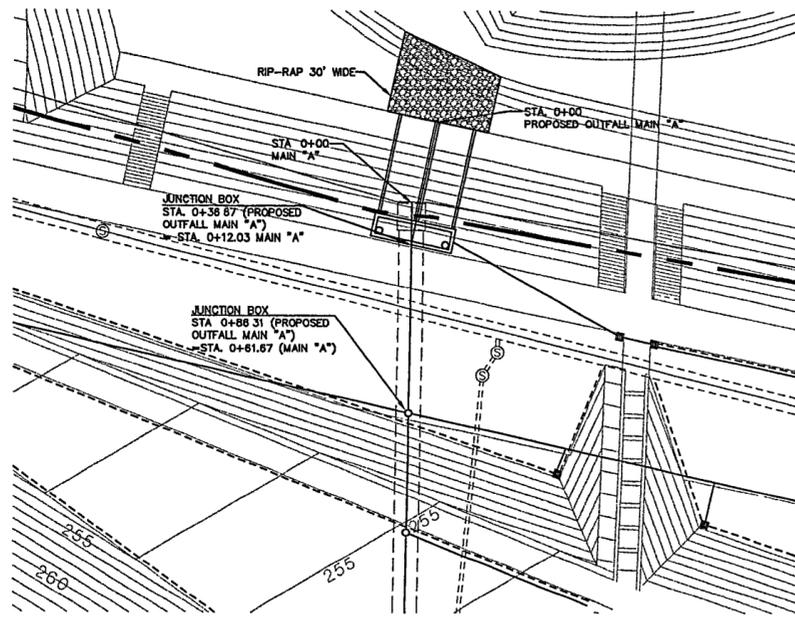
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Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
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MISCELLANEOUS
DRAINAGE DETAILS

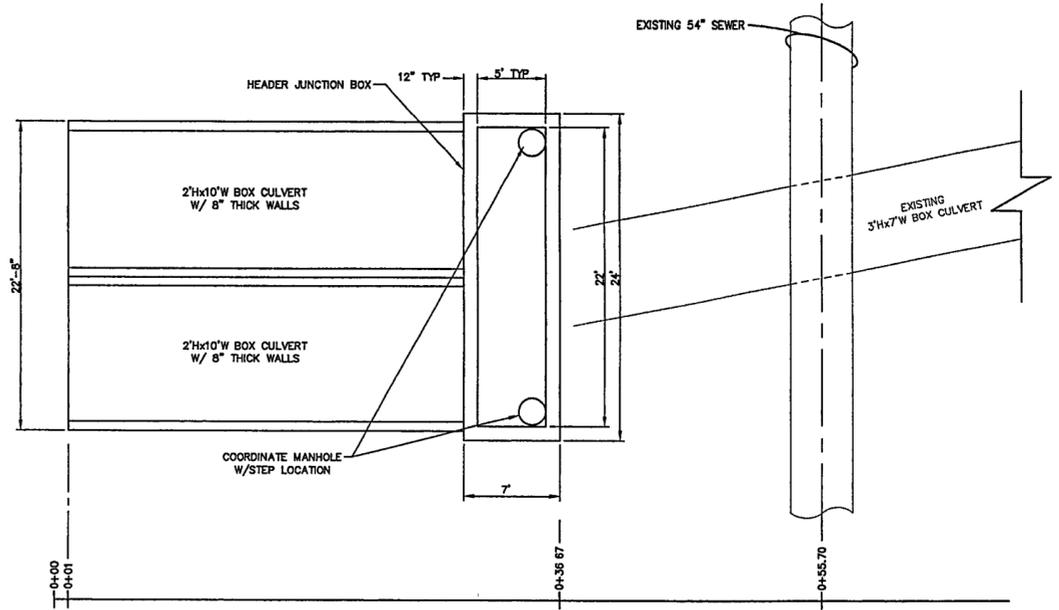
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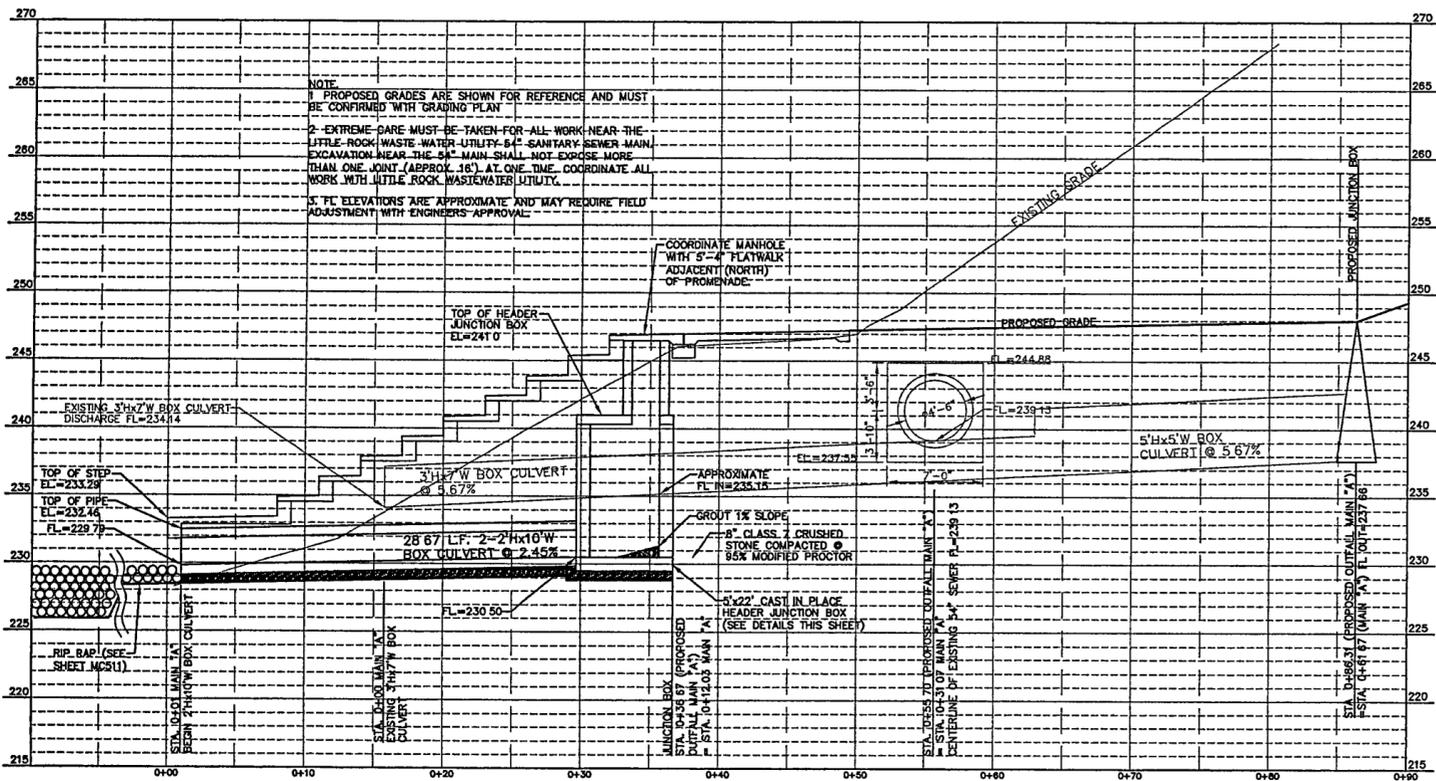
PROPOSED OUTFALL MAIN "A"
PLAN VIEW

SCALE
1"=20'-0"



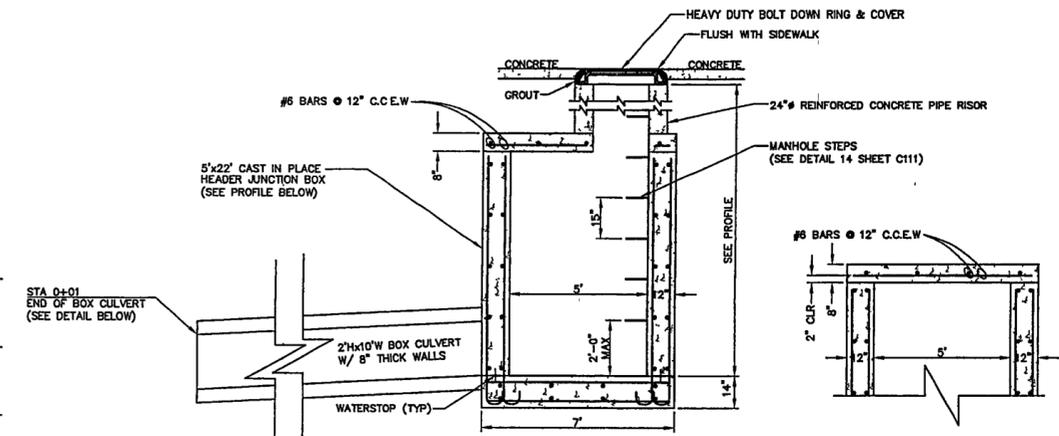
PROPOSED OUTFALL BOX CULVERT
PLAN VIEW

SCALE
1"=5'



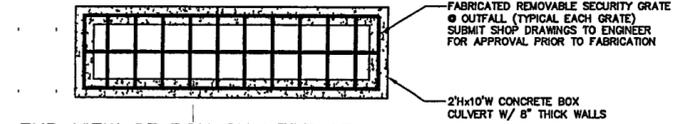
PROPOSED OUTFALL MAIN "A"
PROFILE

SCALE
VERT. 1"=5'
HORIZ. 1"=5'

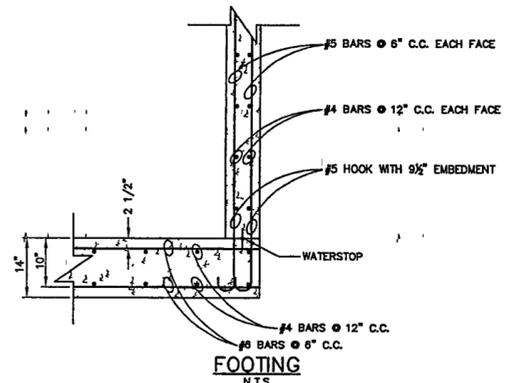


ELEVATION VIEW @ MANHOLE
N.T.S.

ELEVATION VIEW OF TOP OF JUNCTION BOX NOT @ MANHOLE
N.T.S.



END VIEW OF BOX CULVERT STA. 0+01
N.T.S.



FOOTING
N.T.S.

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Signage Design
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286 Spring Street, Sixth Floor
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Seal
[Professional Engineer Seal: State of Arkansas, Registered Professional Engineer, No. 3412, William J. McClelland]

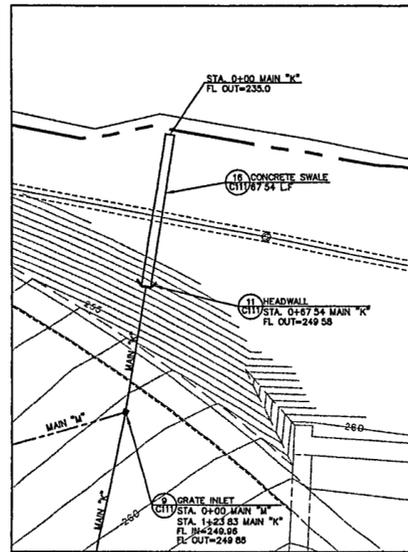
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03	80% Site Package 2 CD	08/16/02
02	60% Site Package 2 CD	06/29/02
01	100% Design Development	04/01/02
Issue		Date

Job No: PPA 9906
Scale: HA, CPC0101
Date: AS SHOWN
SEPTEMBER 27, 2002
Title: **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
DRAINAGE PLAN & PROFILES
Sheet No:

C112

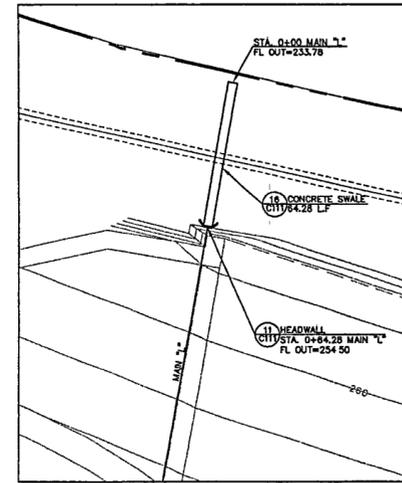
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MAIN "K"



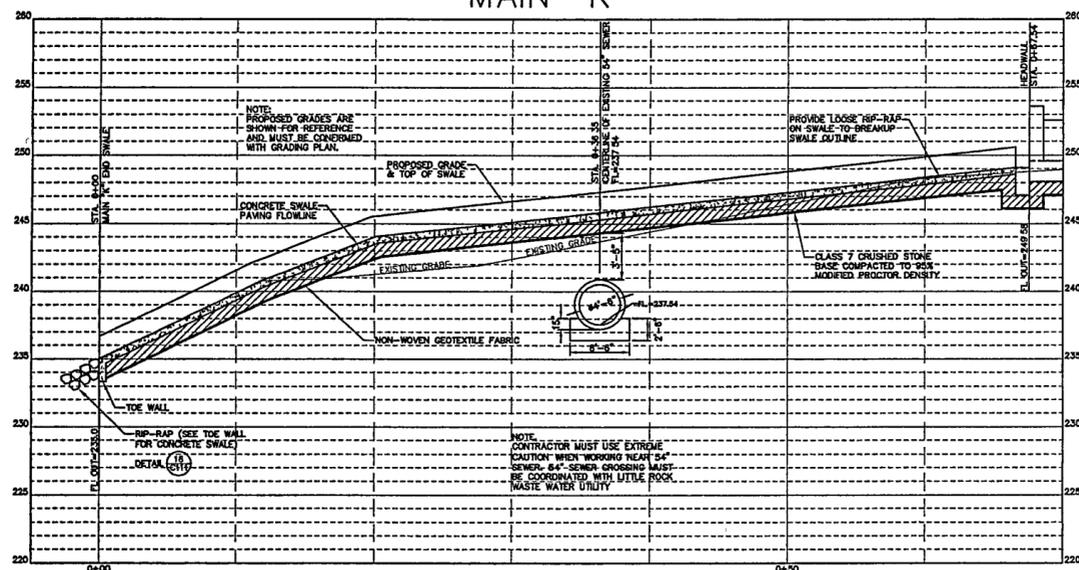
SCALE:
1"=30'

MAIN "L"



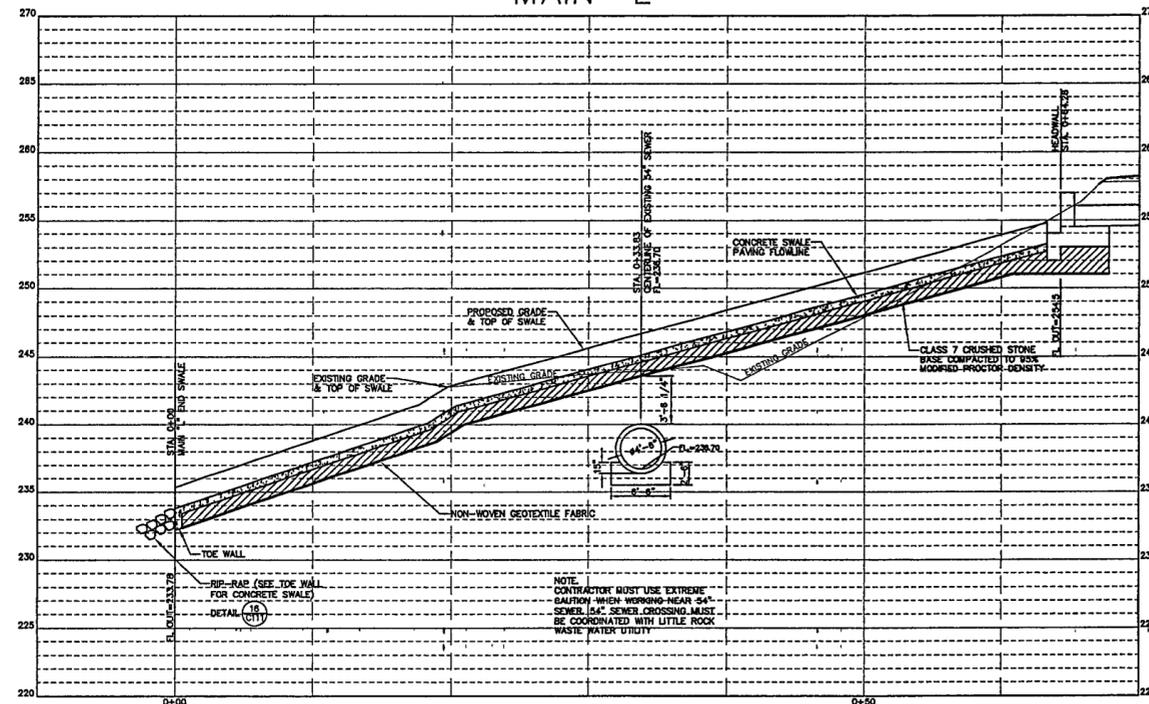
SCALE:
1"=30'

MAIN "K"



SCALE:
VERT: 1"=5'
HORIZ: 1"=5'

MAIN "L"



SCALE:
VERT: 1"=5'
HORIZ: 1"=5'

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Playground Design

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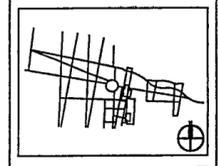
Signage Design

POULIN + MORRIS
286 Spring Street, Sixth Floor
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212.675.1332

Seal



02	100% Site Package 2 CD	09/27/02
01	90% Site Package 2 CD	09/16/02
Issue		Date



Job No. PPA_9908
HA_CPC0101

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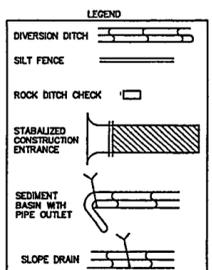
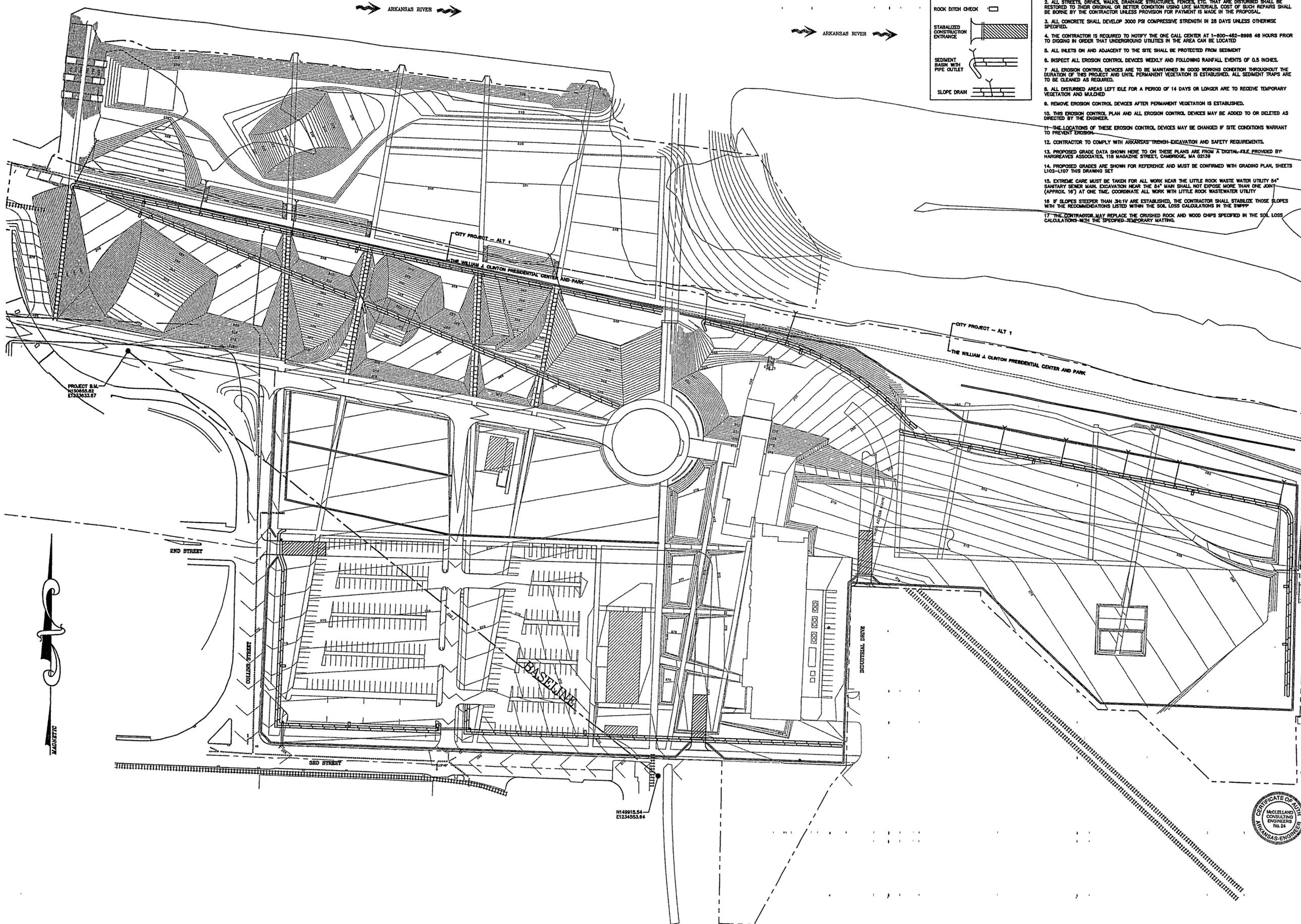
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Title SITE PACKAGE 2
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DRAINAGE PLAN
& PROFILES

Sheet No.

C113

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- GENERAL NOTES:**
1. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE FOREMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATION'S NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATION'S NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
 2. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
 3. ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS UNLESS OTHERWISE SPECIFIED.
 4. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
 5. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
 6. INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FOLLOWING RAINFALL EVENTS OF 0.5 INCHES.
 7. ALL EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED. ALL SEDIMENT TRAPS ARE TO BE CLEANED AS REQUIRED.
 8. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
 9. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.
 10. THIS EROSION CONTROL PLAN AND ALL EROSION CONTROL DEVICES MAY BE ADDED TO OR DELETED AS DIRECTED BY THE ENGINEER.
 11. THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
 12. CONTRACTOR TO COMPLY WITH ARKANSAS' TRENCH-EXCAVATION AND SAFETY REQUIREMENTS.
 13. PROPOSED GRADE DATA SHOWN HERE TO ON THESE PLANS ARE FROM A DIGITAL-FILE PROVIDED BY HARGREAVES ASSOCIATES, 118 MAGAZINE STREET, CAMBRIDGE, MA 02139
 14. PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET
 15. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN EXCAVATION NEAR THE 84" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 10') AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY.
 16. IF SLOPES STEEPER THAN 3:1V ARE ESTABLISHED, THE CONTRACTOR SHALL STABILIZE THOSE SLOPES WITH THE RECOMMENDATIONS LISTED WITHIN THE SOIL LOSS CALCULATIONS IN THE SWPPP.
 17. THE CONTRACTOR MAY REPLACE THE CRUSHED ROCK AND WOOD CHIPS SPECIFIED IN THE SOIL LOSS CALCULATIONS WITH THE SPECIFIED TEMPORARY MATTING.

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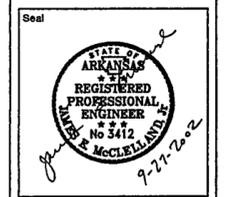
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 1616 East Millbrook Road, Suite 160
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 919 781 4826

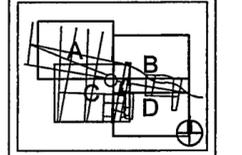
Foundry
DAN EUSER WATERARCHITECTURE INC
 58 Mackenzie Drive West
 Richmond Hill Ontario L4C 3S2
 CANADA
 905 884.4178

Playground Design
PLAY SITE ARCHITECTURE
 7 Fairway Road
 Acton, Massachusetts 01720
 978 263 1090

Signage Design
POULIN + MORRIS
 286 Spring Street, Sixth Floor
 New York, New York 10013
 212 675 1332



Issue	Date
05 100% Site Package 2 CD	09/27/02
04 80% Site Package 2 CD	08/16/02
03 60% Site Package 2 CD	06/29/02
02 100% Design Development	04/10/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 9908
 HA CPC0101

Scale 1" = 60'-0"

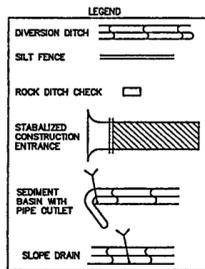
Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
EROSION CONTROL PLAN

Sheet No **C201**

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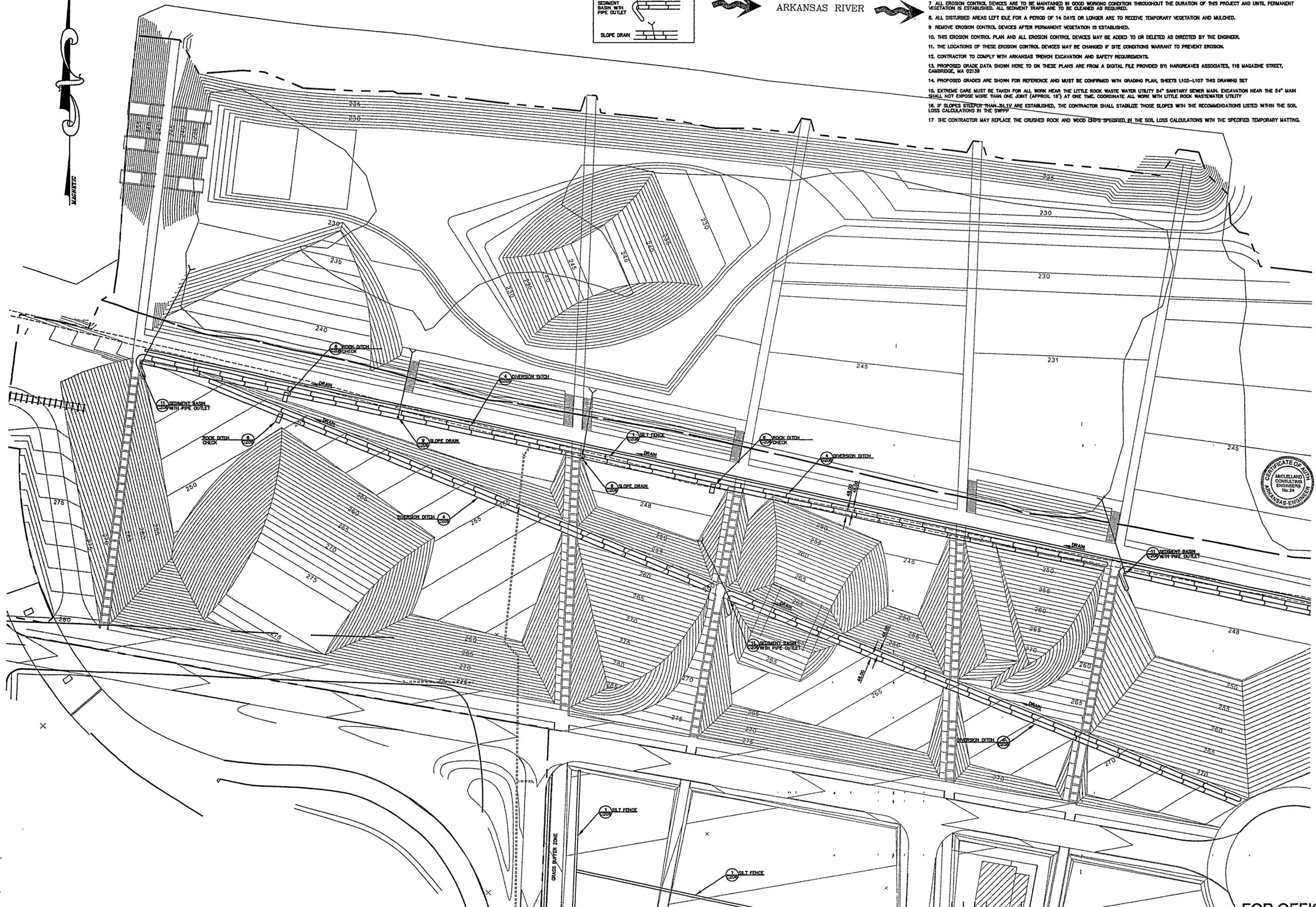
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- GENERAL NOTES:**
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 3. ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS UNLESS OTHERWISE SPECIFIED.
 4. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
 5. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
 6. INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FOLLOWING RAINFALL EVENTS OF 0.5 INCHES.
 7. ALL EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED. ALL SEDIMENT TRAPS ARE TO BE CLEANED AS REQUIRED.
 8. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
 9. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.
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 12. CONTRACTOR TO COMPLY WITH ARKANSAS TRENCH EXCAVATION AND SAFETY REQUIREMENTS.
 13. PROPOSED GRADE DATA SHOWN HERE TO ON THESE PLANS ARE FROM A DIGITAL FILE PROVIDED BY HARGREAVES ASSOCIATES, 118 MAGAZINE STREET, CAMBRIDGE, MA 02139
 14. PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET
 15. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN. EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 18') AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY
 16. IF SLOPES STEEPER THAN 3:1 V ARE ESTABLISHED, THE CONTRACTOR SHALL STABILIZE THOSE SLOPES WITH THE RECOMMENDATIONS LISTED WITH THE SOIL LOSS CALCULATIONS IN THE SWPPP.
 17. THE CONTRACTOR MAY REPLACE THE CRUSHED ROCK AND WOOD CHIPS SPECIFIED IN THE SOIL LOSS CALCULATIONS WITH THE SPECIFIED TEMPORARY MATTING.



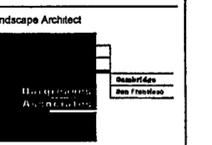
ARKANSAS RIVER



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PRESIDENTIAL
CENTER & PARK**

LITTLE ROCK, ARKANSAS

Architect
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617 661 0054 f

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501 374 8610

Civil Engineer
McCLELLAND CONSULTING ENGINEERS
900 W Markham Street
Little Rock, Arkansas 72201
501 371 0272

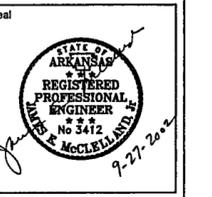
Electrical Engineer
CROMWELL ARCHITECTS ENGINEERS
101 South Spring Street
Little Rock, Arkansas 72201
501 372 2900

Marine + Structural Engineers
MOFFATT & NICHOL ENGINEERS
1616 East Millbrook Road, Suite 160
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919 781 4628

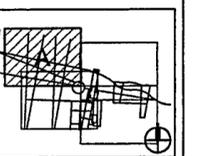
Fountain
DAN EUSER WATERARCHITECTURE INC
58 Mackezee Drive West
Richmond Hill, Ontario L4C 3S2
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905 884 4176

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Signage Design
POLJIN + MORRIS
285 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332



Issue	Date
05 100% Site Package 2 CD	09/27/02
04 90% Site Package 2 CD	08/16/02
03 80% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 8908
HA, CPO0101

Scale 1" = 30'-0"

Date SEPTEMBER 27, 2002

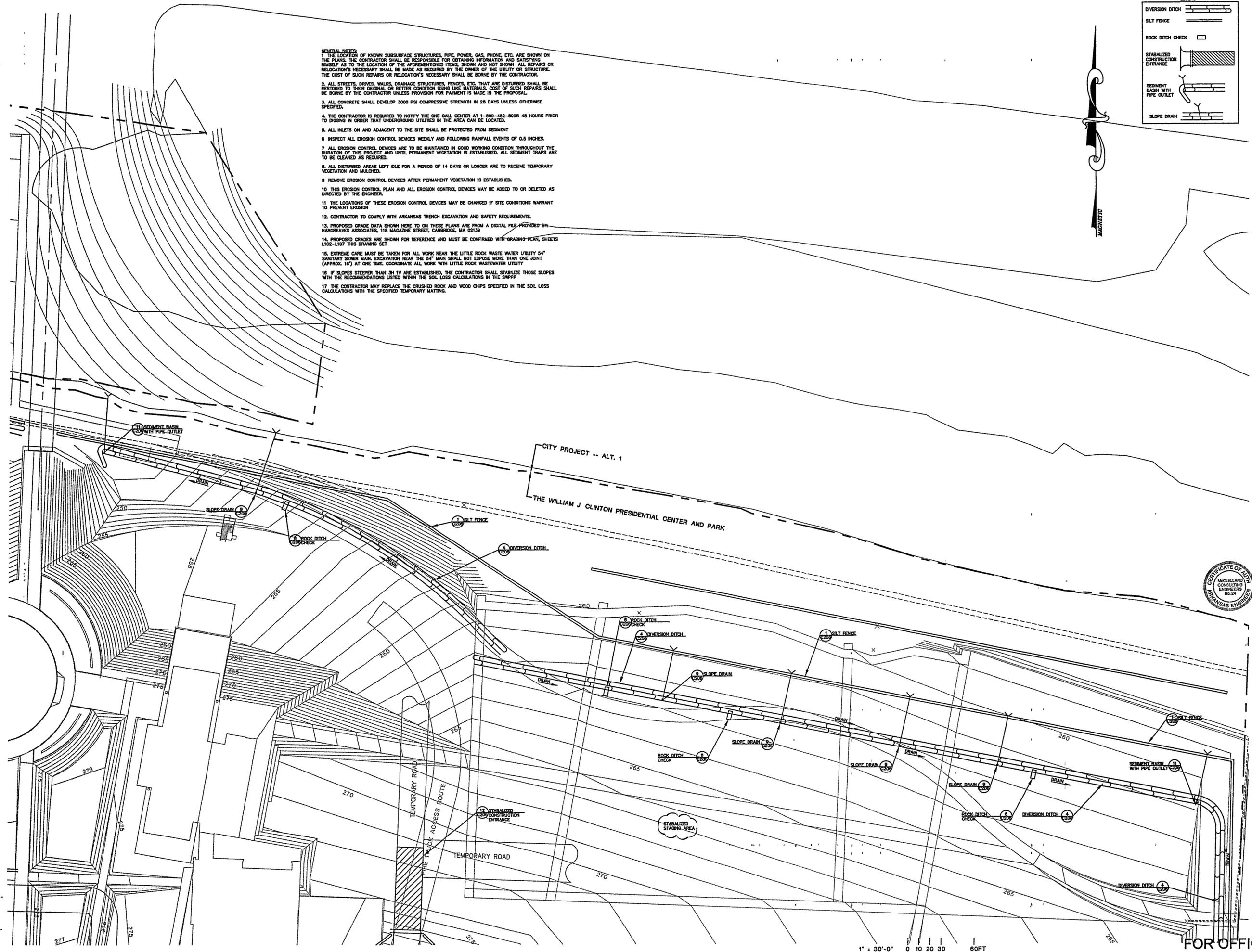
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100% CONSTRUCTION DOCUMENTS
EROSION CONTROL
PLAN
AREA "A"

Sheet No

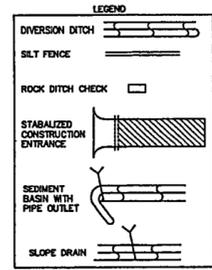
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1" = 30'-0" 0 10 20 30 60FT



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 17. THE CONTRACTOR MAY REPLACE THE CRUSHED ROCK AND WOOD CHIPS SPECIFIED IN THE SOIL LOSS CALCULATIONS WITH THE SPECIFIED TEMPORARY MATING.



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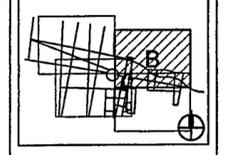
Fountain
DAN EUSER WATERARCHITECTURE INC.
 58 Mackenzie Drive West
 Richmond Hill, Ontario L4C 3S2
 CANADA
 905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
 7 Fairway Road
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 978 263 1090

Signage Design
POULIN + MORRIS
 288 Spring Street, Sixth Floor
 New York, New York 10013
 212 675 1332

Seal

Issue	Date
05 100% Site Package 2 CD	09/27/02
04 80% Site Package 2 CD	08/18/02
03 80% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 5905
 HA, CPC0101

Scale 1" = 30'-0"

Date SEPTEMBER 27, 2002

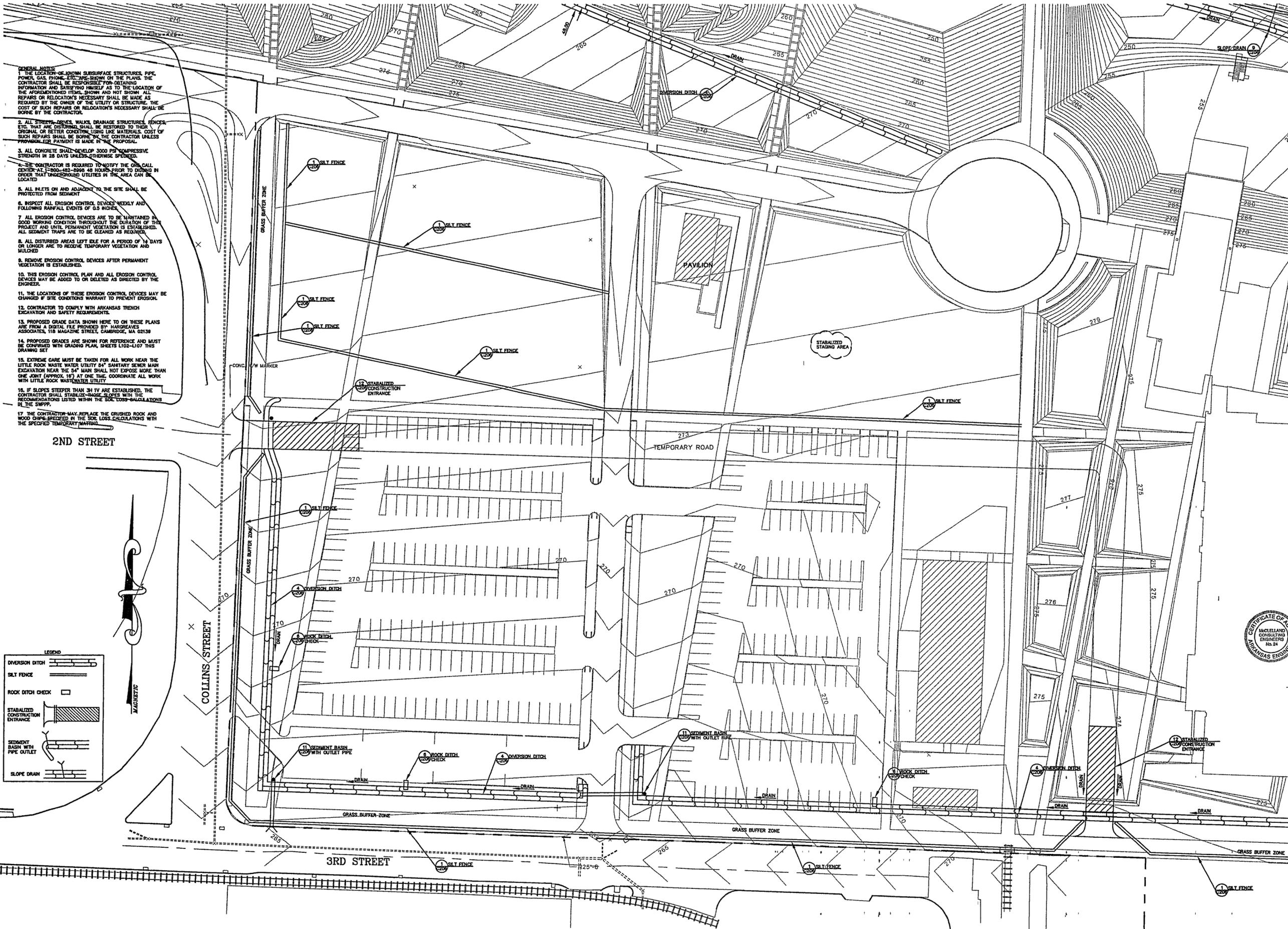
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 EROSION CONTROL
 PLAN
 AREA "B"**

Sheet No

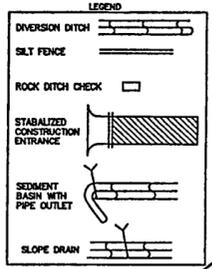
C203

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1" = 30'-0" 0 10 20 30 60FT



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 16. IF SLOPES STEEPER THAN 3H:1V ARE ESTABLISHED, THE CONTRACTOR SHALL STABILIZE THESE SLOPES WITH THE RECOMMENDATIONS LISTED WITHIN THE SOIL LOSS CALCULATIONS IN THE SWPPP.
 17. THE CONTRACTOR MAY REPLACE THE CRUSHED ROCK AND WOOD CHIPS SPECIFIED IN THE SOIL LOSS CALCULATIONS WITH THE SPECIFIED TEMPORARY MATTING.



**WILLIAM J CLINTON
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 Little Rock, Arkansas 72201
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Electrical Engineer
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 101 South Spring Street
 Little Rock, Arkansas 72201
 501 372 2500

Manne + Structural Engineers
 MOFFATT & NICHOL ENGINEERS
 1616 East Millbrook Road, Suite 160
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Fountain
 DAN EUSER WATERARCHITECTURE INC
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 PLAY SITE ARCHITECTURE
 7 Farmway Road
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 978 263 1050

Signage Design
 POULIN + MORRIS
 286 Spring Street, Sixth Floor
 New York, New York 10013
 212 675 1332

Seal

05	100% Site Package 2 CD	09/27/02
04	90% Site Package 2 CD	08/16/02
03	60% Site Package 2 CD	06/28/02
02	100% Design Development	04/01/02
01	100% Site Package 1 CD	02/15/02
	Issue	Date

Job No PPA 9908
 HA, CFC0101

Scale 1" = 30'-0"

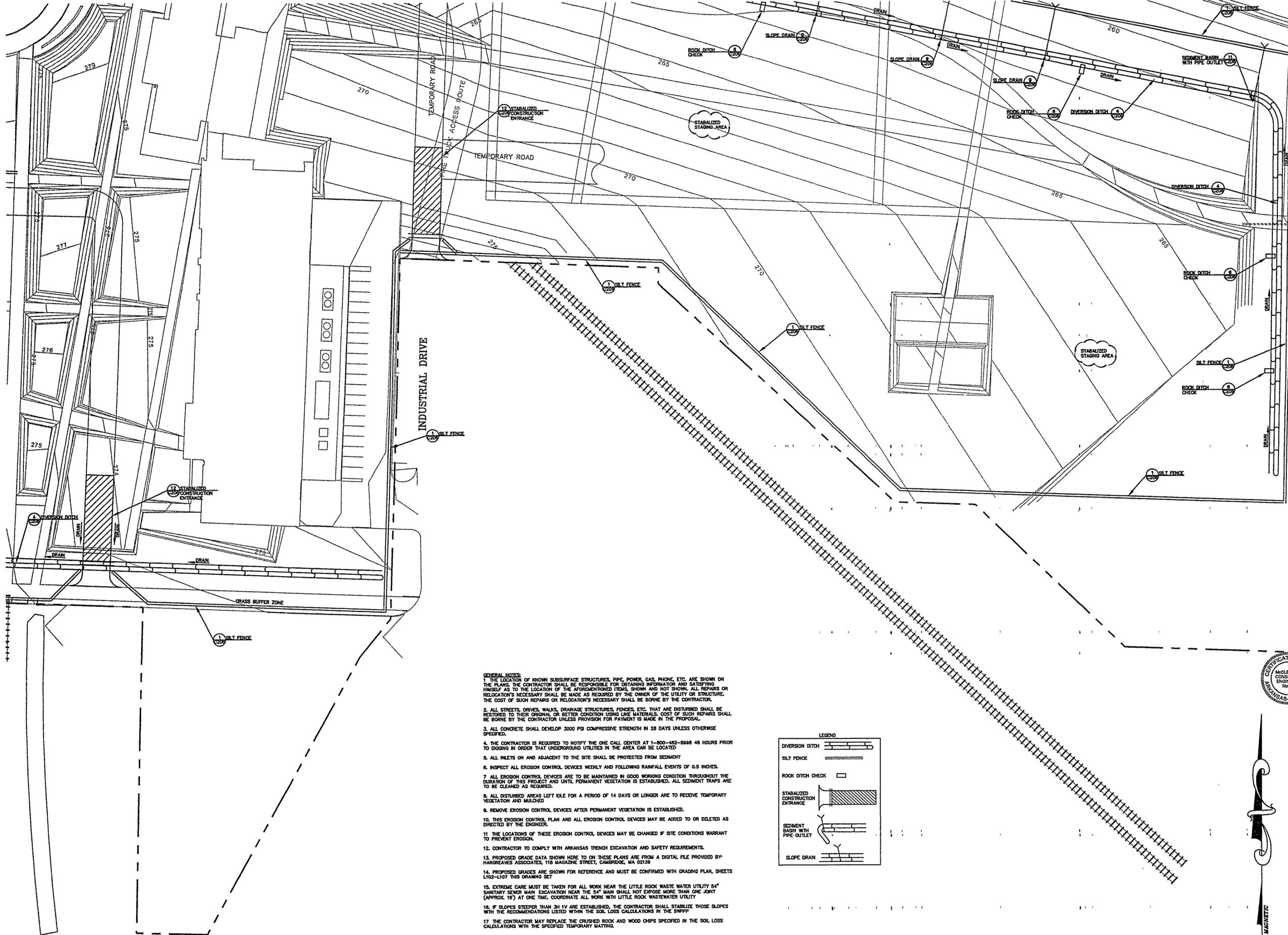
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Title SITE PACKAGE 2
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 EROSION CONTROL
 PLAN
 AREA "C"

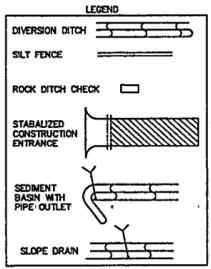
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1" = 30'-0" 0 10 20 30 60FT

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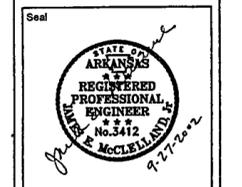
Electrical Engineer
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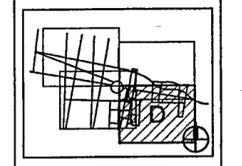
Fountain
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02 100% Design Development	04/01/02
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Job No PPA-9908
 HA-CPC0101

Scale 1" = 30'-0"

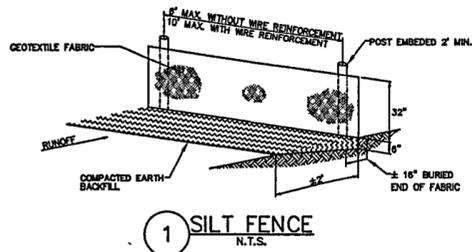
Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2
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 EROSION CONTROL
 PLAN
 AREA "D"**

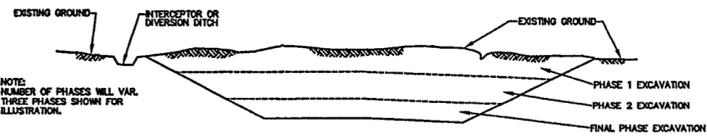
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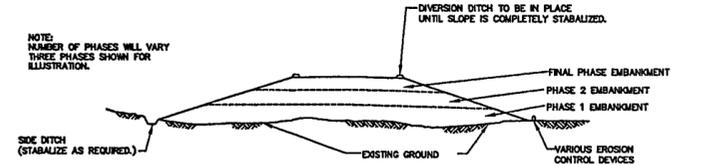
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N.T.S.



GENERAL NOTE
ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. EXCAVATE AND STABILIZE ALL DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

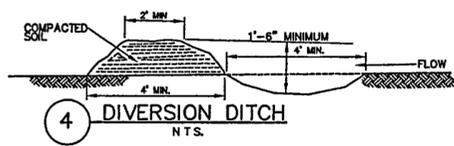
2 EXCAVATION
N.T.S.



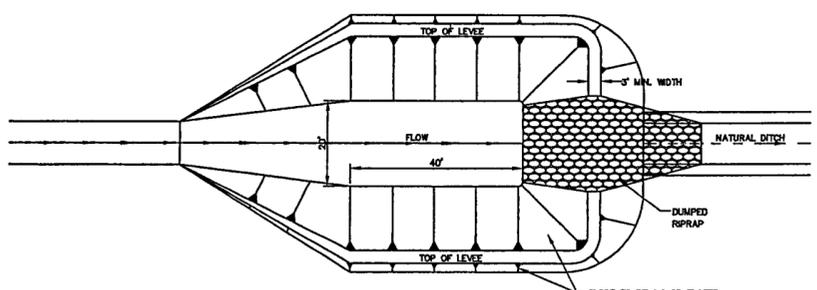
GENERAL NOTE
ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

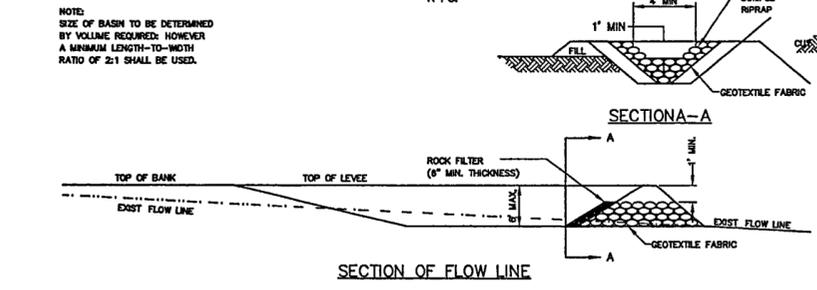
3 EMBANKMENT
N.T.S.



4 DIVERSION DITCH
N.T.S.



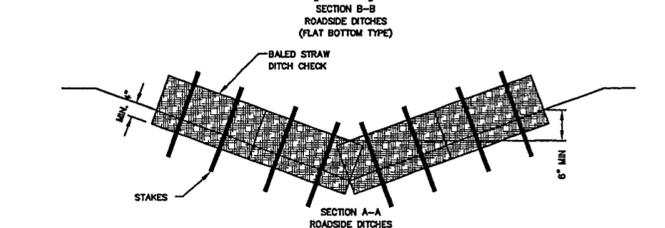
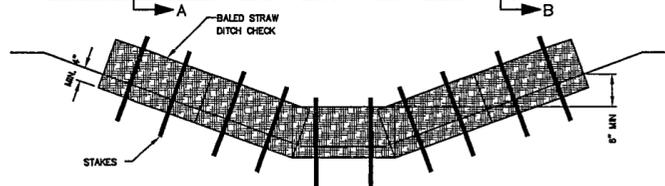
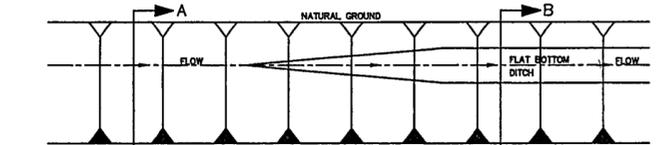
PLAN
N.T.S.



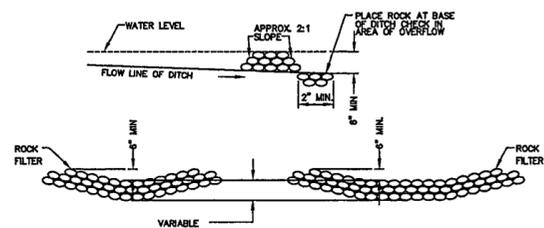
SECTION OF FLOW LINE

5 SEDIMENT BASIN WITH RIPRAP OUTLET
N.T.S.

GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BRIDGES ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
2. STRAW BALES SHALL BE KEVED INTO SOIL A MINIMUM OF 4" AND NO GAPS SHALL BE LEFT BETWEEN BALES.



BALED STRAW DITCH CHECK
N.T.S.

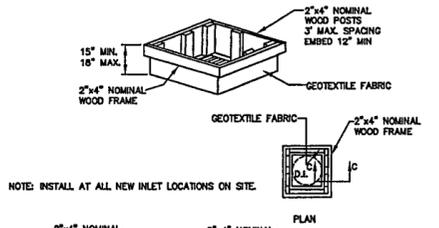


SECTION A-A

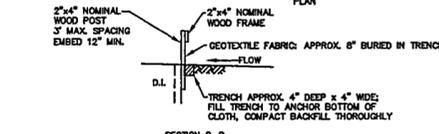
SECTION B-B

ROCK DITCH CHECK

6 DITCH CHECK
N.T.S.

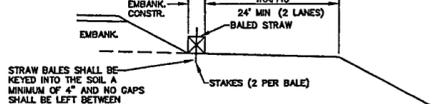


PLAN



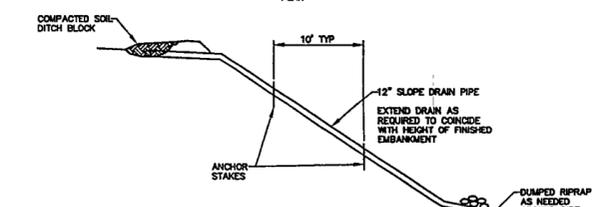
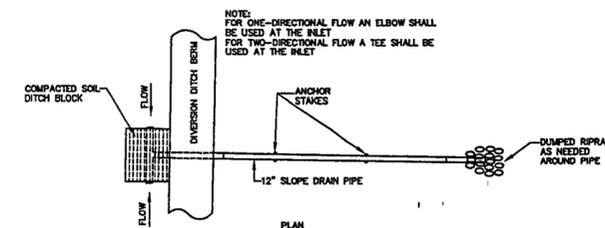
SECTION C-C

7 SILT FENCE AT DROP INLET
N.T.S.



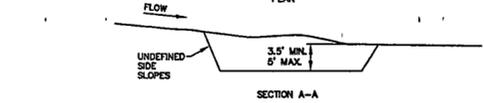
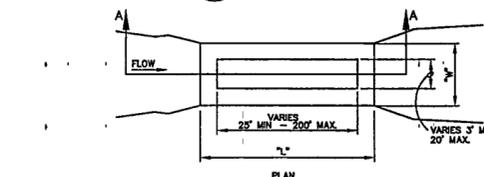
8 BALED STRAW FILTER BARRIER
N.T.S.

GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BRIDGES ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOP AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
2. NO GAPS SHALL BE LEFT BETWEEN BALES.



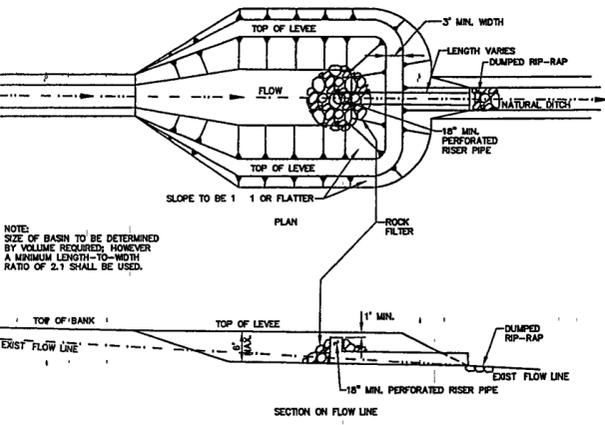
GENERAL NOTES
1. THIS DETAIL IS SHOWN FOR AREAS DISCHARGING INTO SEDIMENT BASIN.
2. IF DISCHARGING IS INTO EXISTING DRAINS, PROVIDE SILT FENCE AROUND PIPE INLET SIMILAR TO DETAIL 10 SILT FENCE AT DROP INLET.

9 SLOPE DRAIN
N.T.S.

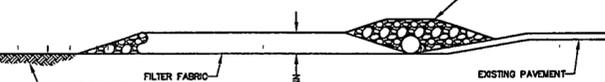
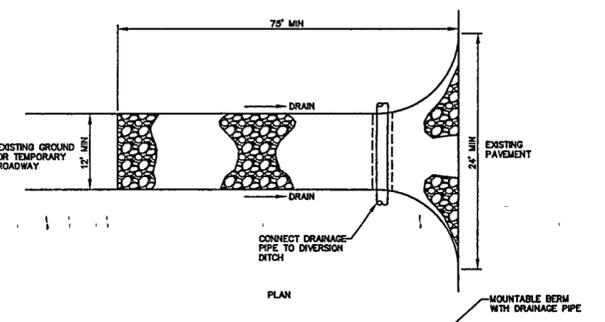


GENERAL NOTES:
1. "L" IS GREATER THAN OR EQUAL TO "2W"

10 SEDIMENT BASIN
N.T.S.



11 SEDIMENT BASIN WITH PIPE OUTLET
N.T.S.



12 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

WILLIAM J. CLINTON
PRESIDENTIAL
CENTER & PARK

LITTLE ROCK, ARKANSAS

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Manne + Structural Engineers
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919 781 4625

Fountain
DAN EUSER WATERARCHITECTURE INC.
59 Mackeay Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4178

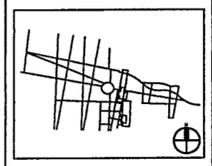
Playground Design
PLAY SITE ARCHITECTURE
7 Fairway Road
Acton, Massachusetts 01720
978 263 1050

Signage Design
POULIN + MORRIS
288 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332

Seal
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 3412
McCLELLAND
9-27-2007



Issue	Date
05 100% Site Package 2 CD	08/27/02
04 90% Site Package 2 CD	08/16/02
03 80% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA 6908
Scale HA, CPC0101

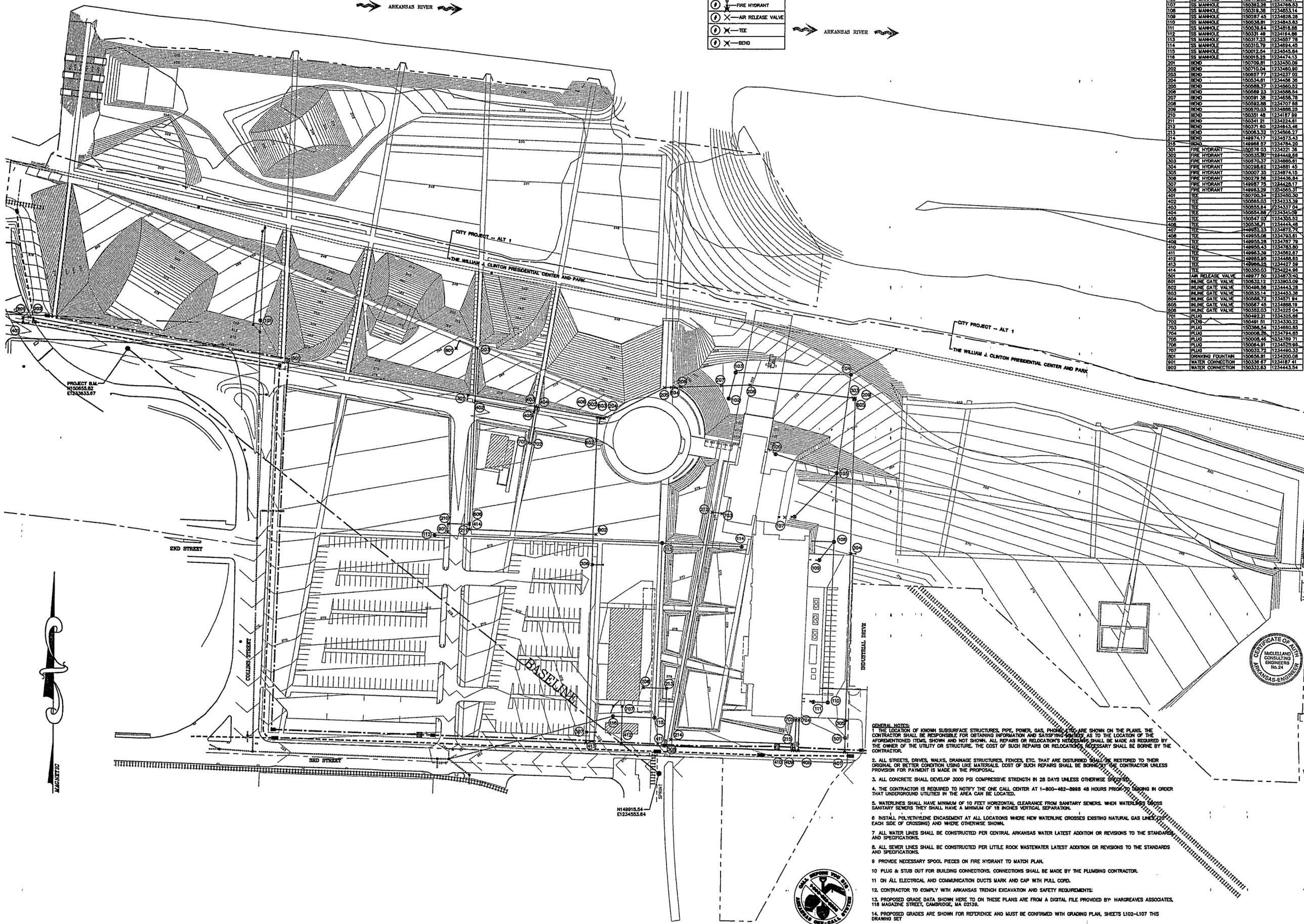
Date AS SHOWN

September 27, 2002
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
EROSION CONTROL
DETAILS

Sheet No

C206

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LEGEND

①	MANHOLE
⊗	GATE VALVE
⊙	FIRE HYDRANT
⊗	AIR RELEASE VALVE
⊕	TEE
⊘	BEND

Node ID	Description	Northing	Easting
101	SS MANHOLE	150705.29	1233882.81
102	SS MANHOLE	150588.29	1234870.89
103	SS MANHOLE	150814.06	1234882.54
104	SS MANHOLE	150811.39	1234880.33
105	SS MANHOLE	150438.82	1234857.14
106	SS MANHOLE	150472.58	1234752.11
107	SS MANHOLE	150382.26	1234768.03
108	SS MANHOLE	15019.39	1234853.14
109	SS MANHOLE	150287.45	1234828.38
110	SS MANHOLE	150036.91	1234843.83
111	SS MANHOLE	150539.84	1234818.88
112	SS MANHOLE	150331.48	1234184.88
113	SS MANHOLE	150317.23	1234587.78
114	SS MANHOLE	150316.79	1234684.45
115	SS MANHOLE	150012.54	1234453.84
118	SS MANHOLE	150018.28	1234474.13
201	BEND	150709.81	1233450.09
202	BEND	150710.04	1233460.30
203	BEND	150927.77	1234337.02
204	BEND	150534.61	1234456.36
205	BEND	150688.57	1234560.02
206	BEND	150589.29	1234588.54
207	BEND	150591.38	1234658.78
208	BEND	150582.08	1234707.88
209	BEND	150710.03	1234660.30
210	BEND	150331.48	1234187.89
211	BEND	150341.21	1234224.61
212	BEND	150371.80	1234843.48
213	BEND	150033.32	1234588.57
214	BEND	149974.17	1234573.43
215	BEND	149968.07	1234784.20
301	FIRE HYDRANT	150578.03	1234921.38
302	FIRE HYDRANT	150535.90	1234448.68
303	FIRE HYDRANT	150570.37	1234885.81
304	FIRE HYDRANT	150298.82	1234881.45
305	FIRE HYDRANT	150077.25	1234874.15
306	FIRE HYDRANT	150279.88	1234438.84
307	FIRE HYDRANT	149987.75	1234428.17
308	FIRE HYDRANT	149933.29	1234585.37
401	TEE	150700.54	1234500.50
402	TEE	150585.03	1234233.39
403	TEE	150555.84	1234337.04
404	TEE	150544.89	1234345.68
405	TEE	150547.03	1234355.52
406	TEE	150536.71	1234443.48
407	TEE	149985.23	1234872.97
408	TEE	149955.08	1234783.61
409	TEE	149955.28	1234787.79
410	TEE	149955.43	1234783.80
411	TEE	149953.39	1234862.87
412	TEE	149985.85	1234488.85
413	TEE	149988.26	1234427.59
414	TEE	150350.03	1234874.88
501	AIR RELEASE VALVE	149977.90	1234878.90
601	INLINE GATE VALVE	150832.12	1233903.09
602	INLINE GATE VALVE	150488.56	1234443.28
603	INLINE GATE VALVE	150835.14	1234463.34
604	INLINE GATE VALVE	150888.72	1234371.94
605	INLINE GATE VALVE	150687.45	1234888.19
606	INLINE GATE VALVE	150332.03	1234725.04
701	PLUG	150482.21	1234328.68
702	PLUG	150481.81	1234330.22
703	PLUG	150388.54	1234860.85
704	PLUG	150008.26	1234784.85
705	PLUG	150008.46	1234789.71
706	PLUG	150064.91	1234525.96
707	PLUG	150532.72	1234603.33
801	DRINKING FOUNTAIN	150856.81	1234200.08
901	WATER CONNECTION	150336.67	1234187.41
902	WATER CONNECTION	150332.63	1234443.84

GENERAL NOTES:
 1. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFFORERMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATIONS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
 2. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
 3. ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS UNLESS OTHERWISE SPECIFIED.
 4. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8988 48 HOURS PRIOR TO ANY WORKING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
 5. WATERLINES SHALL HAVE MINIMUM OF 10 FEET HORIZONTAL CLEARANCE FROM SANITARY SEWERS. WHEN WATERLINES CROSS SANITARY SEWERS THEY SHALL HAVE A MINIMUM OF 18 INCHES VERTICAL SEPARATION.
 6. INSTALL POLYETHYLENE ENCASMENT AT ALL LOCATIONS WHERE NEW WATERLINE CROSSES EXISTING NATURAL GAS LINES (EACH SIDE OF CROSSING) AND WHERE OTHERWISE SHOWN.
 7. ALL WATER LINES SHALL BE CONSTRUCTED PER CENTRAL ARKANSAS WATER LATEST ADDITION OR REVISIONS TO THE STANDARDS AND SPECIFICATIONS.
 8. ALL SEWER LINES SHALL BE CONSTRUCTED PER LITTLE ROCK WASTEWATER LATEST ADDITION OR REVISIONS TO THE STANDARDS AND SPECIFICATIONS.
 9. PROVIDE NECESSARY SPOOL PIECES ON FIRE HYDRANT TO MATCH PLAN.
 10. PLUG & STUB OUT FOR BUILDING CONNECTIONS. CONNECTIONS SHALL BE MADE BY THE PLUMBING CONTRACTOR.
 11. ON ALL ELECTRICAL AND COMMUNICATION DUCTS MARK AND CAP WITH PULL CORD.
 12. CONTRACTOR TO COMPLY WITH ARKANSAS TRENCH EXCAVATION AND SAFETY REQUIREMENTS.
 13. PROPOSED GRADE DATA SHOWN HERE TO ON THESE PLANS ARE FROM A DIGITAL FILE PROVIDED BY HARGREAVES ASSOCIATES, 118 MAGAZINE STREET, CAMBRIDGE, MA 02138.
 14. PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET.
 15. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 18') AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY.

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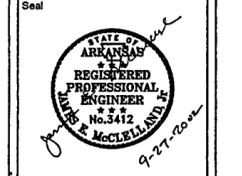
Electrical Engineer
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Marine + Structural Engineers
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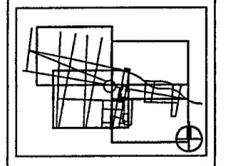
Fountain
DAN EUSER WATERARCHITECTURE INC.
 58 Mackenzie Drive West
 Richmond Hill, Ontario L4C 3S2
 CANADA
 905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
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 Acton, Massachusetts 01720
 978 283 1090

Signage Design
POULIN + MORRIS
 288 Spring Street, Sixth Floor
 New York, New York 10013
 212 675 1332



Issue	Date
05 100% Site Package 2 CD	09/27/02
04 80% Site Package 2 CD	08/16/02
03 60% Site Package 2 CD	08/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No: PPA 998
 HA, CPC0101

Scale: 1" = 60'-0"

Date: SEPTEMBER 27, 2002

Title: SITE PACKAGE 2
 100% CONSTRUCTION DOCUMENTS
 SITE UTILITY PLAN

Sheet No: C301

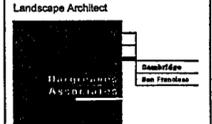
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1" = 60'-0" 0 20 40 60 120 FT

**WILLIAM J CLINTON
PRESIDENTIAL
CENTER & PARK**

LITTLE ROCK, ARKANSAS

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617 661 0064 f

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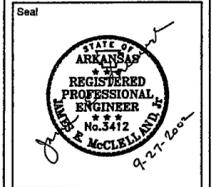
Electrical Engineer
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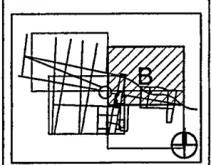
Fountain
DAN ELISER WATERARCHITECTURE INC.
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Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4178

Playground Design
PLAY SITE ARCHITECTURE
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Signage Design
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01 100% Site Package 1 CD	02/15/02



Job No PPA 9908
HA CPC0101

Scale 1" = 30'-0"

Date SEPTEMBER 27, 2002

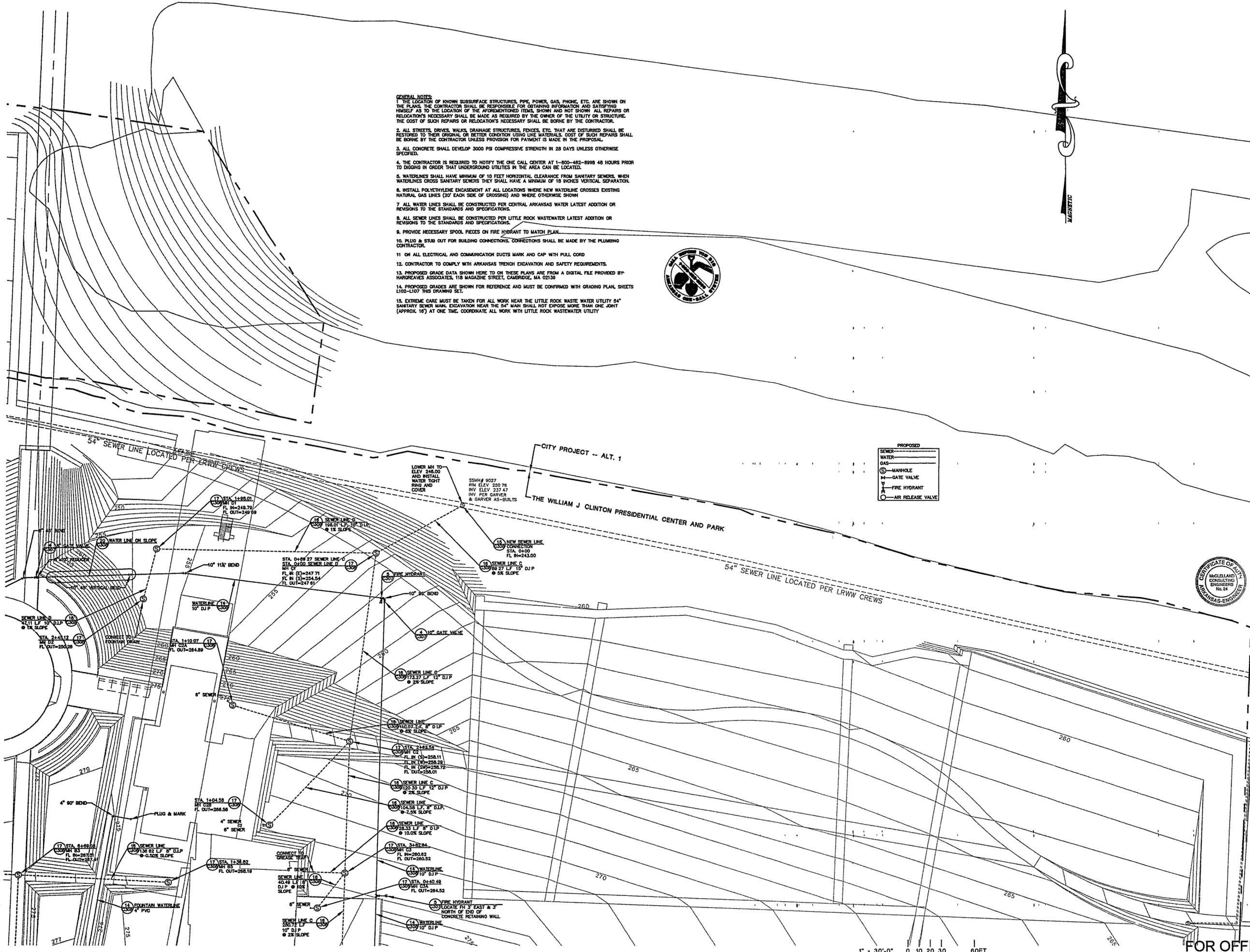
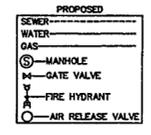
Title **SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE UTILITY PLAN
AREA "B"**

Sheet No

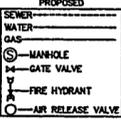
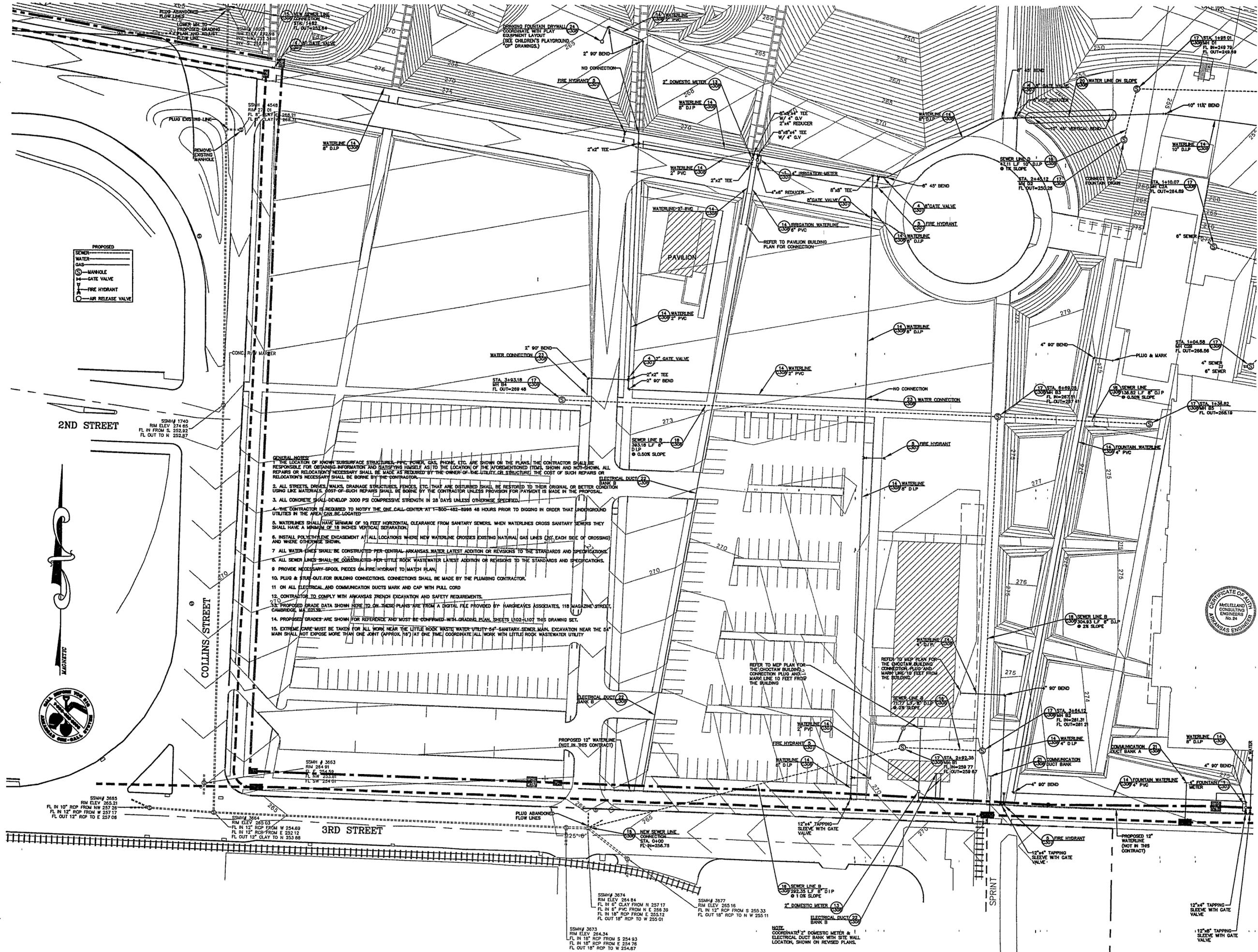
C303

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- GENERAL NOTES**
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 7. ALL WATER LINES SHALL BE CONSTRUCTED PER CENTRAL ARKANSAS WATER LATEST ADDITION OR REVISIONS TO THE STANDARDS AND SPECIFICATIONS.
 8. ALL SEWER LINES SHALL BE CONSTRUCTED PER LITTLE ROCK WASTEWATER LATEST ADDITION OR REVISIONS TO THE STANDARDS AND SPECIFICATIONS.
 9. PROVIDE NECESSARY SPOOL PIECES ON FIRE HYDRANT TO MATCH PLAN.
 10. PLUG & STUB OUT FOR BUILDING CONNECTIONS. CONNECTIONS SHALL BE MADE BY THE PLUMBING CONTRACTOR.
 11. ON ALL ELECTRICAL AND COMMUNICATION DUCTS MARK AND CAP WITH PULL CORD.
 12. CONTRACTOR TO COMPLY WITH ARKANSAS TRENCH EXCAVATION AND SAFETY REQUIREMENTS.
 13. PROPOSED GRADE DATA SHOWN HERE TO ON THESE PLANS ARE FROM A DIGITAL FILE PROVIDED BY HARGREAVES ASSOCIATES, 118 MAGAZINE STREET, CAMBRIDGE, MA 02139
 14. PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET.
 15. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN. EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 18') AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY.



1" = 30'-0" 0 10 20 30 60 FT



- GENERAL NOTES**
1. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE ABOVE-MENTIONED ITEMS. SHOWN AND NOT-SHOWN. ALL REPAIRS OR RELOCATION'S NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATION'S NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
 2. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST-OF-SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
 3. ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS UNLESS OTHERWISE SPECIFIED.
 4. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8996 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA SHALL BE LOCATED.
 5. WATERLINES SHALL HAVE MINIMUM OF 10 FEET HORIZONTAL CLEARANCE FROM SANITARY SEWERS. WHEN WATERLINES CROSS SANITARY SEWERS THEY SHALL HAVE A MINIMUM OF 18 INCHES VERTICAL SEPARATION.
 6. INSTALL POLYETHYLENE ENCASEMENT AT ALL LOCATIONS WHERE NEW WATERLINE CROSSES EXISTING NATURAL GAS LINES (ON EACH SIDE OF CROSSING) AND WHERE OTHERWISE SHOWN.
 7. ALL WATER LINES SHALL BE CONSTRUCTED PER GENERAL ARKANSAS WATER LATEST ADDITION OR REVISIONS TO THE STANDARDS AND SPECIFICATIONS.
 8. ALL SEWER LINES SHALL BE CONSTRUCTED PER LITTLE ROCK WASTEWATER LATEST ADDITION OR REVISIONS TO THE STANDARDS AND SPECIFICATIONS.
 9. PROVIDE NECESSARY-SPOOL PIECES GALV./HYDRANT TO MATCH PLAN.
 10. PLUG & STUPE-OUT FOR BUILDING CONNECTIONS. CONNECTIONS SHALL BE MADE BY THE PLUMBING CONTRACTOR.
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 15. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTEWATER UTILITY 04" SANITARY SEWER MAIN. EXCAVATION NEAR THE 04" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 16') AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY.

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212 675 1332

Job No: PPA 9008
Scale: HA CPC0101
Date: SEPTEMBER 27, 2002

Title: SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE UTILITY PLAN
AREA "C"

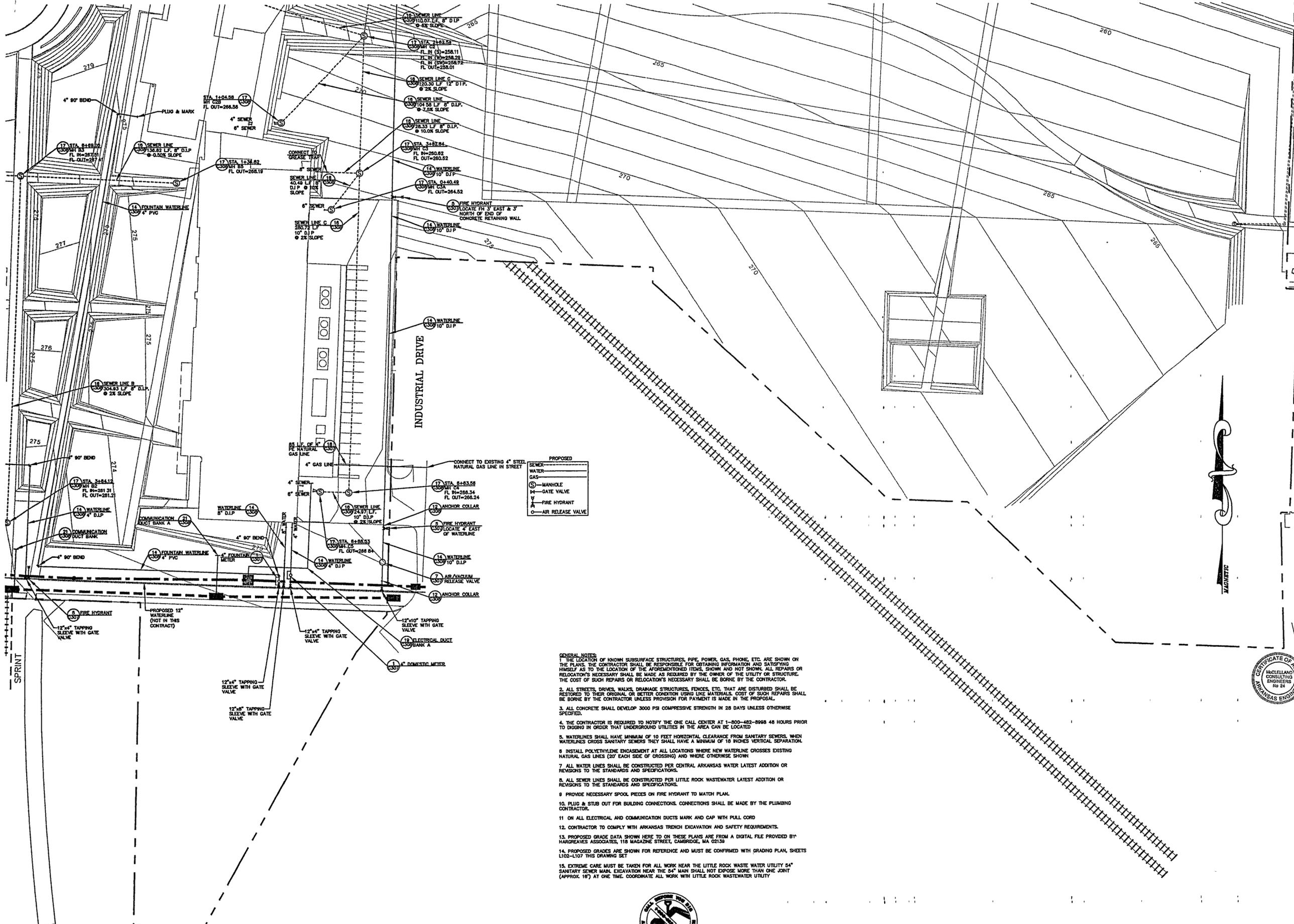
Sheet No: C304

NOTE: COORDINATE 2" DOMESTIC METER & ELECTRICAL CUT BANK WITH SITE WALL LOCATION, SHOWN ON REVISED PLANS.

1" = 30'-0" 0 10 20 30 60FT

FOR OFFICIAL USE ONLY

12" x 4" TAPPING SLEEVE WITH GATE VALVE



PROPOSED

—	SEWER
—	WATER
—	GAS
⊙	MANHOLE
⊕	GATE VALVE
⊙	FIRE HYDRANT
⊕	AIR RELEASE VALVE

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Seal
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 3412
WILLIAM J. CLINTON
McLELLAND
9-27-2002

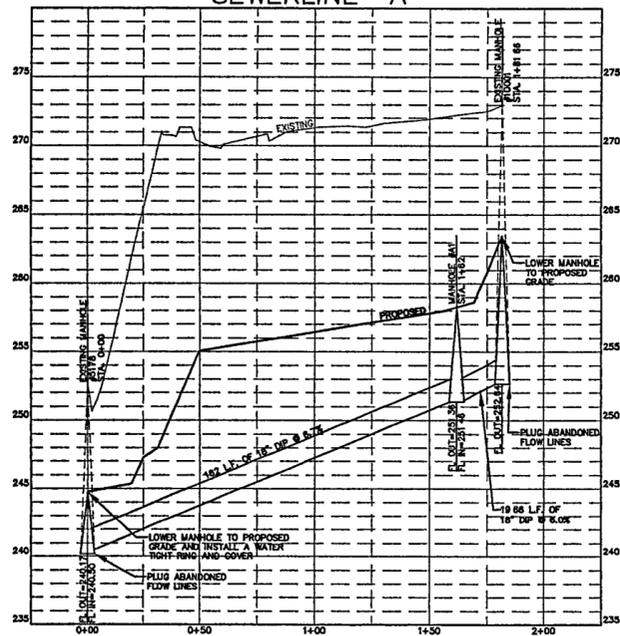
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04 90% Site Package 2 CD	08/16/02
03 80% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02

Job No PPA 9908
HA CPC0101
Scale 1" = 30'-0"
Date SEPTEMBER 27, 2002
Title **SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE UTILITY PLAN
AREA "D"**
Sheet No **C305**

1" = 30'-0" 0 10 20 30 60FT

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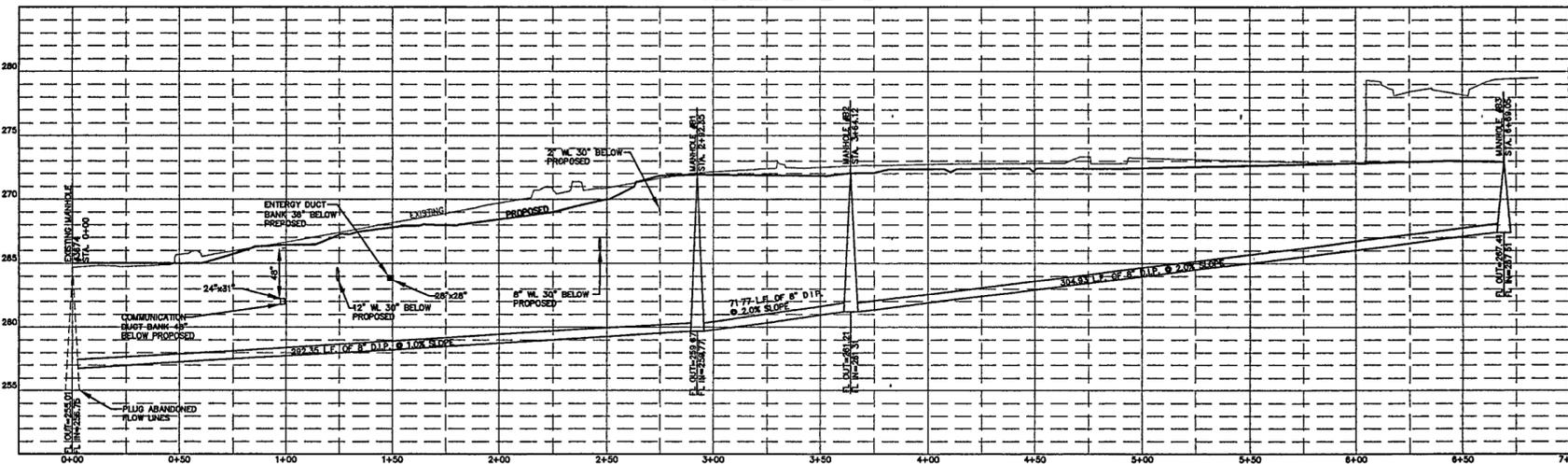
SEWERLINE "A"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

NOTE:
PROPOSED GRADES ARE
SHOWN FOR REFERENCE
AND MUST BE CONFIRMED
WITH GRADING PLAN.

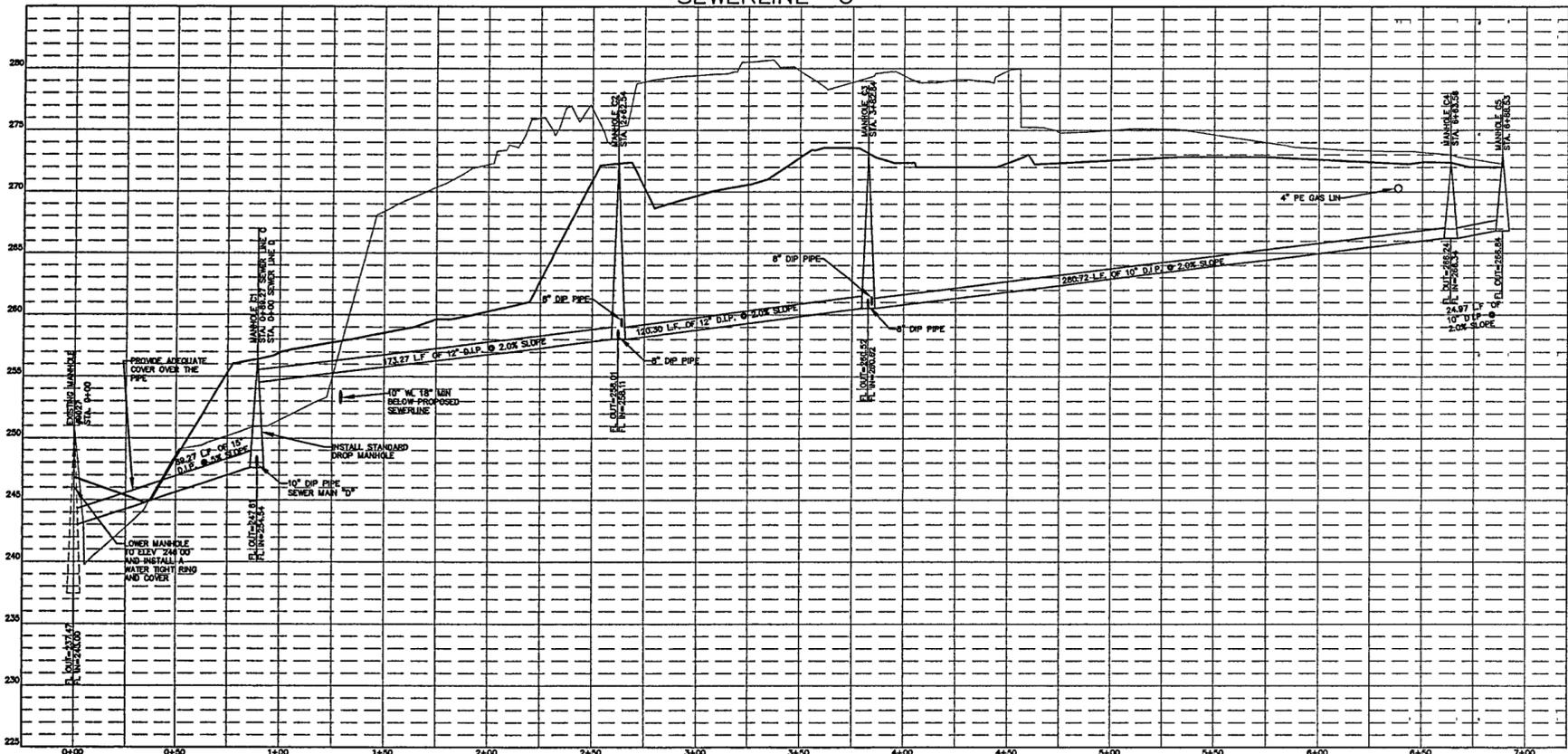
SEWERLINE "B"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

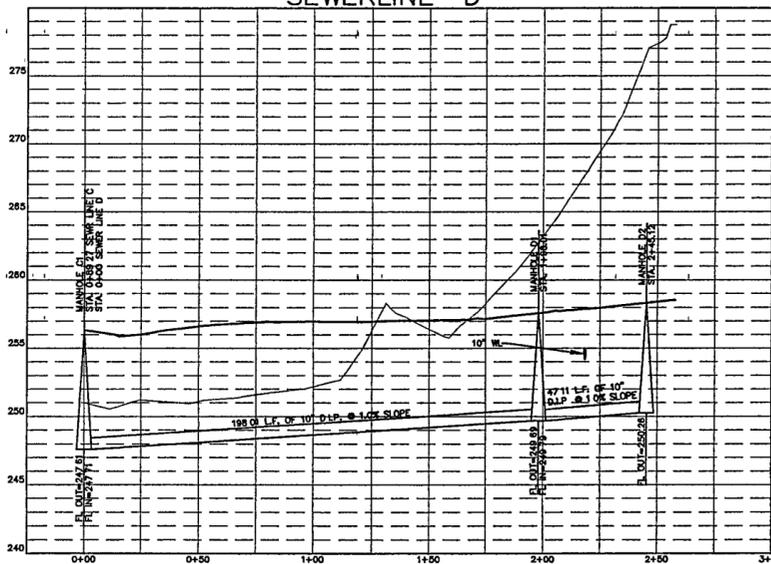
NOTE:
PROPOSED GRADES ARE
SHOWN FOR REFERENCE
AND MUST BE CONFIRMED
WITH GRADING PLAN.

SEWERLINE "C"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'

SEWERLINE "D"



SCALE:
VERT: 1"=5'
HORZ: 1"=30'



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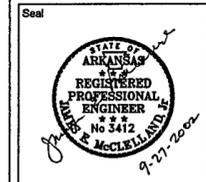
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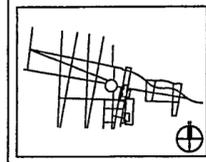
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Issue	Date
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02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02



Job No PPA. 9908
HA. CPC0101

Scale 1"=30'-0"

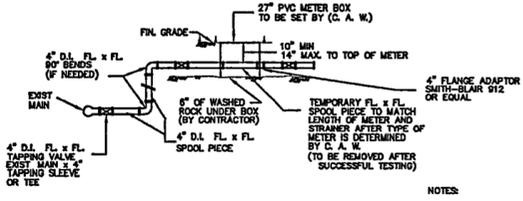
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SEWER PROFILES

Sheet No

C306

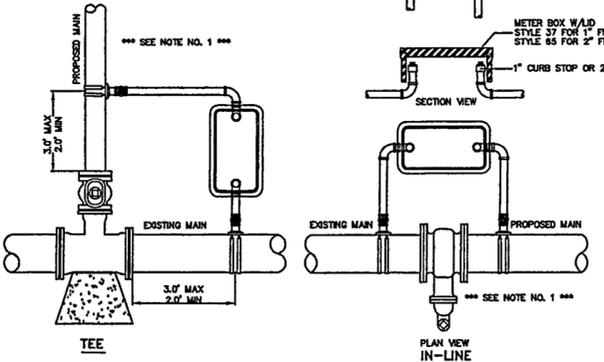
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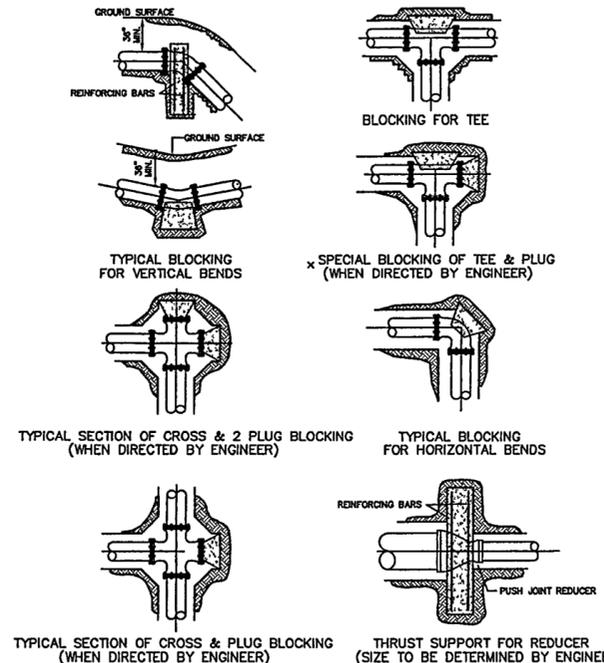
- NOTES:
1. ALL PROCEDURES, MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATIONS OF CENTRAL ARKANSAS WATER.
 2. ALL D.I. PIPE & FITTINGS SHALL BE POLY WRAPPED.
 3. ALL FITTINGS AND VALVES SHALL BE FLANGED OR P.E. WITH FLANGE ADAPTOR.
 4. ALL VALVES SHALL OPEN RIGHT.
 5. 27" PVC (PIP) METER BOX AND STEEL LID WILL BE PROVIDED AND SET BY C.A.W.

1 TURBINE METER SET FOR 27' METER BOX
N.T.S.

- NOTES:
1. FULL SIZE CONNECTIONS WILL BE ALLOWED ONLY WITH WRITTEN APPROVAL OF C.A.W. THESE CONNECTIONS SHALL HAVE A VALVE BOX TO ACCEPT TIES 1/2" LOCKING LID VALVES SHALL BE OPERATED BY C.A.W. PERSONNEL. ONLY ALL OTHER CONNECTIONS TO EXISTING FACILITIES SHALL CONTAIN A CHECK VALVE.
 2. 2" FILL CONNECTIONS AND BLOWOFFS ARE REQUIRED ON ALL MAINS 6" AND LARGER, EXCEPT 6" MAINS LESS THAN 250 LF WITH NO FIRE HYDRANT.
 3. AFTER APPROVAL OF SAMPLES, CLOSE CURB STOPS AND REMOVE FILL ASSEMBLY (1" CONNECTION). FOR 2" PERMANENT CONNECTIONS, CLOSE 2" VALVES, REMOVE FILL ASSEMBLY AND PLUG COUPLINGS. TEMPORARY CONNECTIONS, SHALL HAVE ALL PIPING IS REMOVED AT MAIN CONNECTION POINTS, AND 2" VALVES PLUGGED.

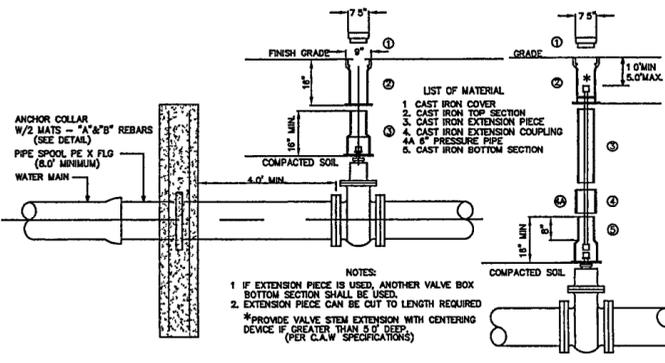


2 1' & 2' FILL CONNECTION DETAILS TYPICAL INSTALLATIONS
N.T.S.

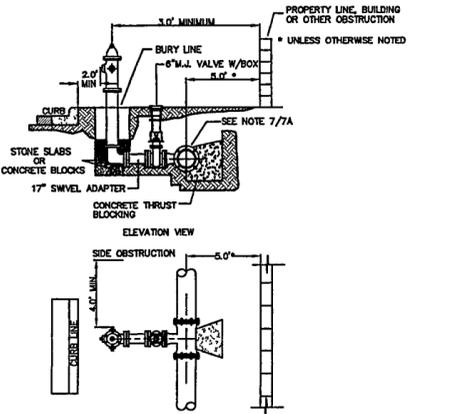


- NOTES ON THRUST BLOCKING
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
 2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A THRUST BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
 3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE TO STATIC PRESSURE + BOX OR TEST PRESSURE, WHICHEVER IS GREATER. (THRUST = CAP. ST. 1/2 A WHERE A = AREA OF PIPE, P = WATER PRESSURE.)
 4. WHEN BLOCKING AGAINST PLUG, PLUG SHALL BE COVERED TO PREVENT BONDING OF CONCRETE.
 5. WHERE SHEAR BECOMES A PROBLEM PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
 6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTIONS.
 7. CLEARANCE ON PIPES BELONGING TO OIL/GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GIVEN BY THESE COMPANIES.

3 THRUST BLOCKING
N.T.S.

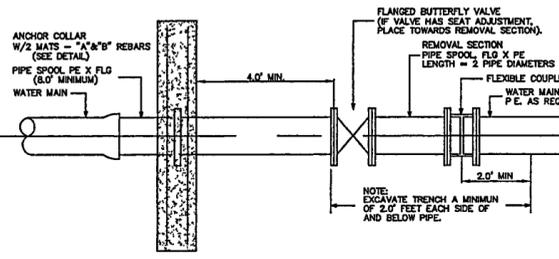


4 GATE VALVE & VALVE BOX INSTALLATION
N.T.S.

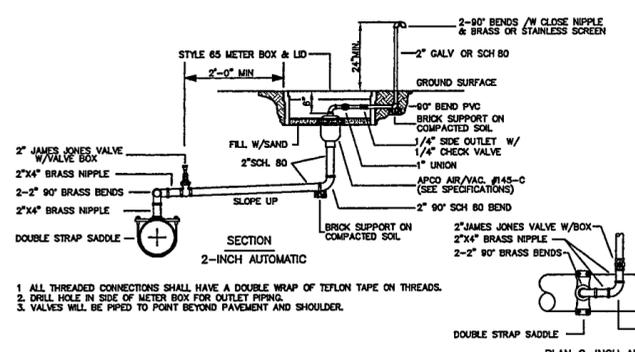


5 STANDARD FIRE HYDRANT INSTALLATION
USE ANCHOR TEE (UNLESS OTHERWISE NOTED)

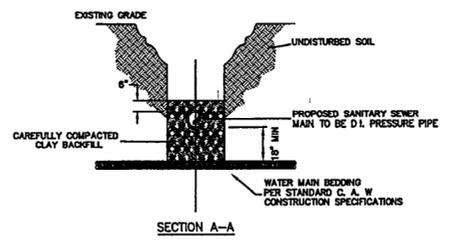
- NOTES:
1. DRAINAGE BED SHALL CONSIST OF CRUSH STONE OR COURSE GRAVEL WITH COURSE SAND. MINIMUM VOLUME OF 8 CU FT DRAIN BED SHALL EXTEND A MINIMUM OF 6" ABOVE DRAIN OUTLET.
 2. USE 1/2" D.I. NIPPLES WITH M.J. RESTRIKER GLANDS IF DISTANCE BETWEEN VALVE AND HYDRANT MUST BE GREATER THAN 17" SWIVEL ADAPTER.
 3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
 4. ALL HYDRANTS SHALL BE INSTALLED FLUSH.
 5. LARGE NOZZLE SHALL FACE CURB UNLESS OTHERWISE NOTED. ROTATE BARREL AS REQUIRED.
 6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4.0' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
 7. M.J. ANCHOR TEE, TAPPING SLEEVE OR TAPPING SADDLE MAY BE USED (SEE MATERIAL SPECIFICATIONS) WHEN USING REGULAR M.J. TEE USE 1 1/2" SWIVEL ADAPTER NIPPLE BETWEEN TEE AND VALVE.
 8. HYDRANTS TO BE SET AT DEPTHS GREATER THAN 5.0' SHALL BE SET WITH A MODIFIED FIRE HYDRANT SETTING. (CONTACT C.A.W. ENGINEERING DEPT. FOR DETAILED DRAWING FOR DEEP DEPTH FIRE HYDRANT SETTINGS).
 9. CONTRACTOR RESPONSIBLE FOR SPOOL PIECES TO POSITION HYDRANT ON LOCATION SHOWN ON THE PLANS.



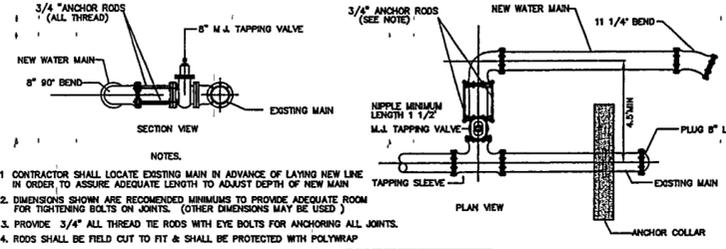
6 TYPICAL BUTTERFLY VALVE INSTALLATION IN STRAIGHT RUN OF PIPE
N.T.S.



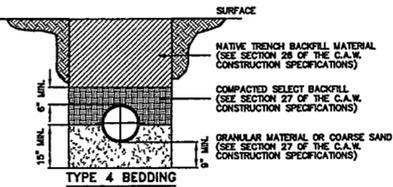
7 2' COMBINATION AIR/VACUUM VALVE DETAIL
N.T.S.



8 SEWER CROSSING
N.T.S.



9 CONNECTION TO EXISTING 8' MAIN
N.T.S.



10 BEDDING & BACKFILL DETAIL
N.T.S.

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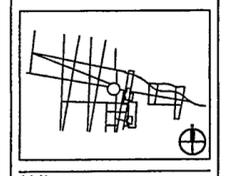
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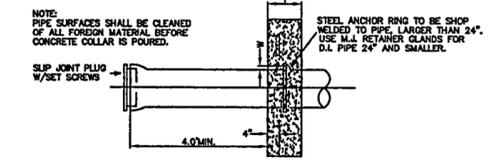
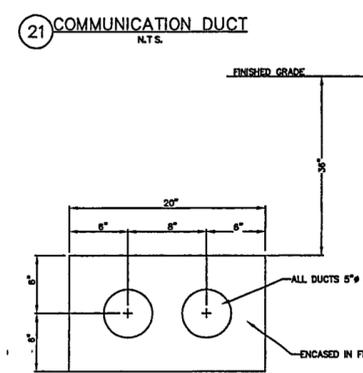
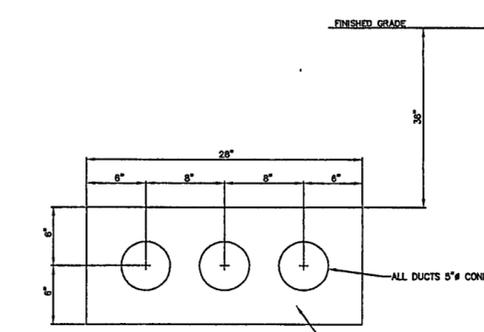
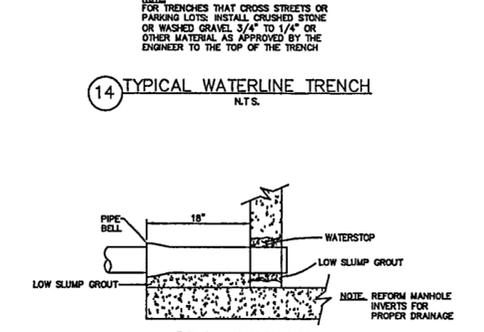
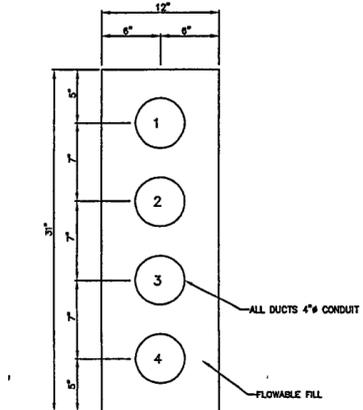
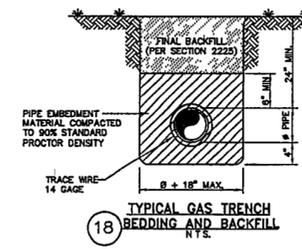
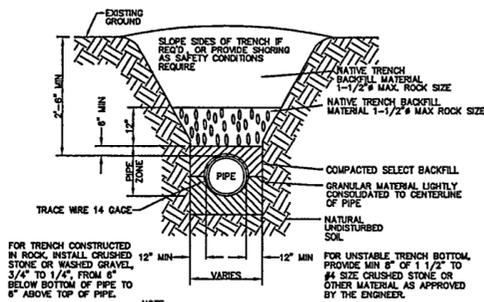
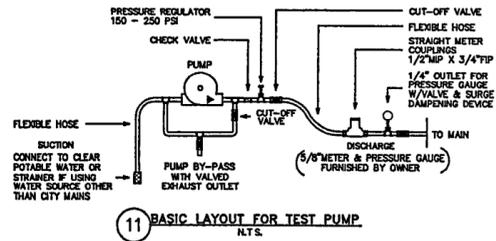
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05 100% Site Package 2 CD	PPA, 9908 HA, CPC0101	09/27/02
04 90% Site Package 2 CD	AS SHOWN	09/15/02
03 80% Site Package 2 CD		06/29/02
02 100% Design Development		04/01/02
01 100% Site Package 1 CD		02/15/02
Issue		Date



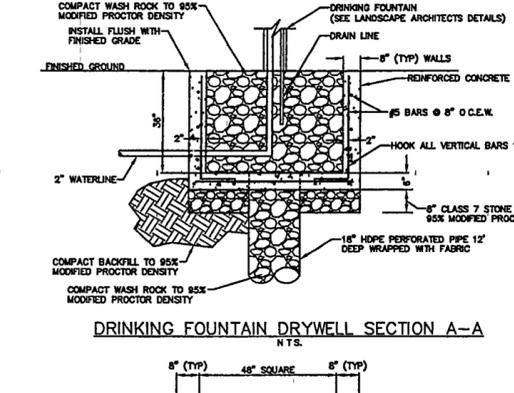
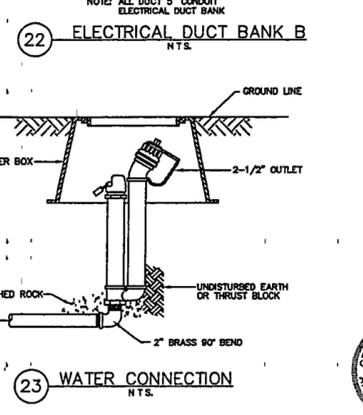
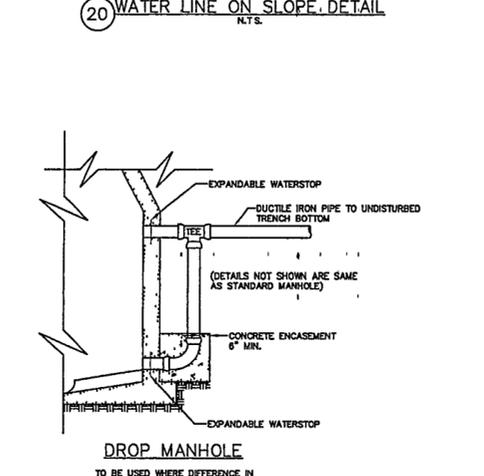
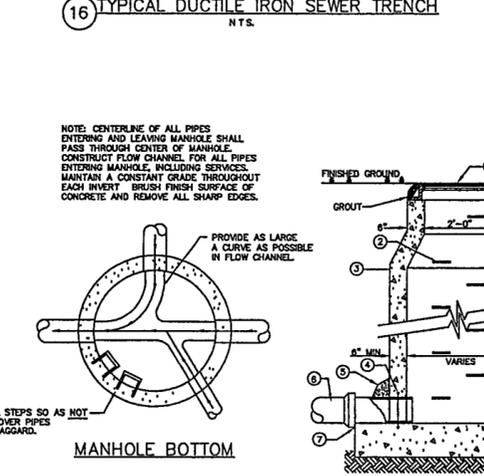
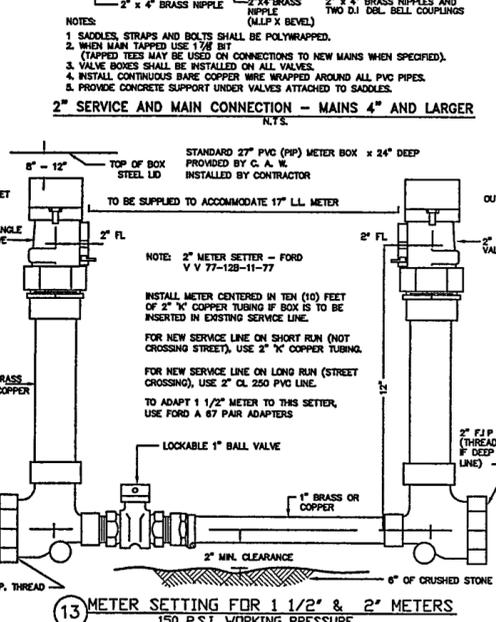
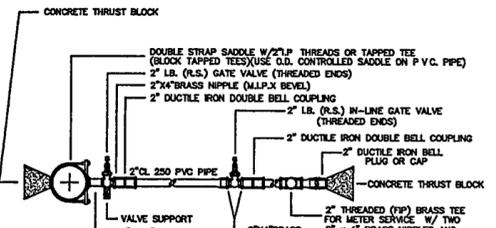
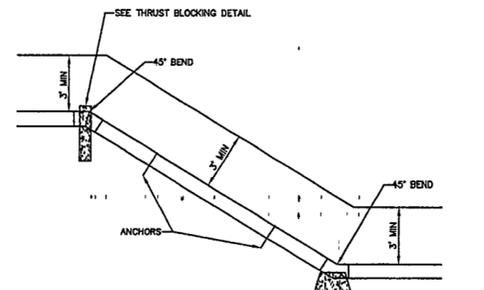
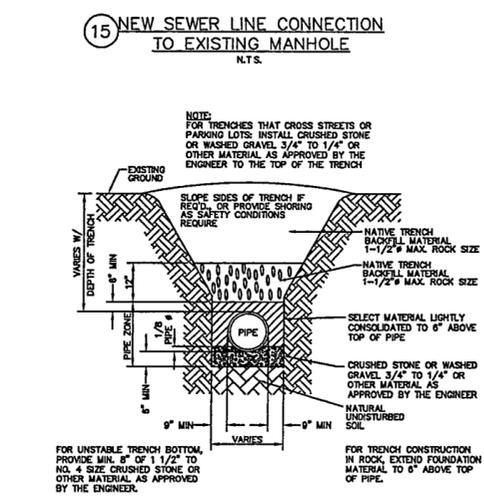
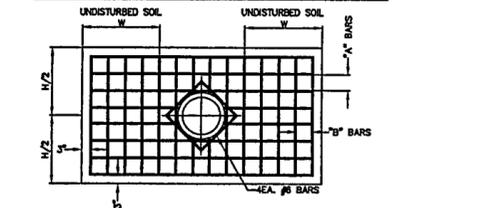
Job No PPA, 9908
HA, CPC0101
Scale AS SHOWN
Date SEPTEMBER 27, 2002
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE UTILITY DETAILS
Sheet No

C307

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PIPE SIZE	ANCHOR COLLAR SCHEDULE DIMENSIONS			REINFORCING BARS	
	W	H	T	A	B
1 1/2"	1 1/2"	2 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
2"	2 0"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
2 1/2"	2 1/2"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
3"	3 0"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
3 1/2"	3 1/2"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
4"	4 0"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
4 1/2"	4 1/2"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
5"	5 0"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
5 1/2"	5 1/2"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
6"	6 0"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
6 1/2"	6 1/2"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"
7"	7 0"	4 0"	1 0"	M.I. RETAINER GLAND	Ø 008"



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Manne + Structural Engineers
MOFFATT & NICHOL ENGINEERS
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Raleigh, North Carolina 27609
919 781 4626

Fountain
DAN EUSER WATERARCHITECTURE INC.
58 Mackade Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
7 Fairway Road
Acton, Massachusetts 01720
978 263 1090

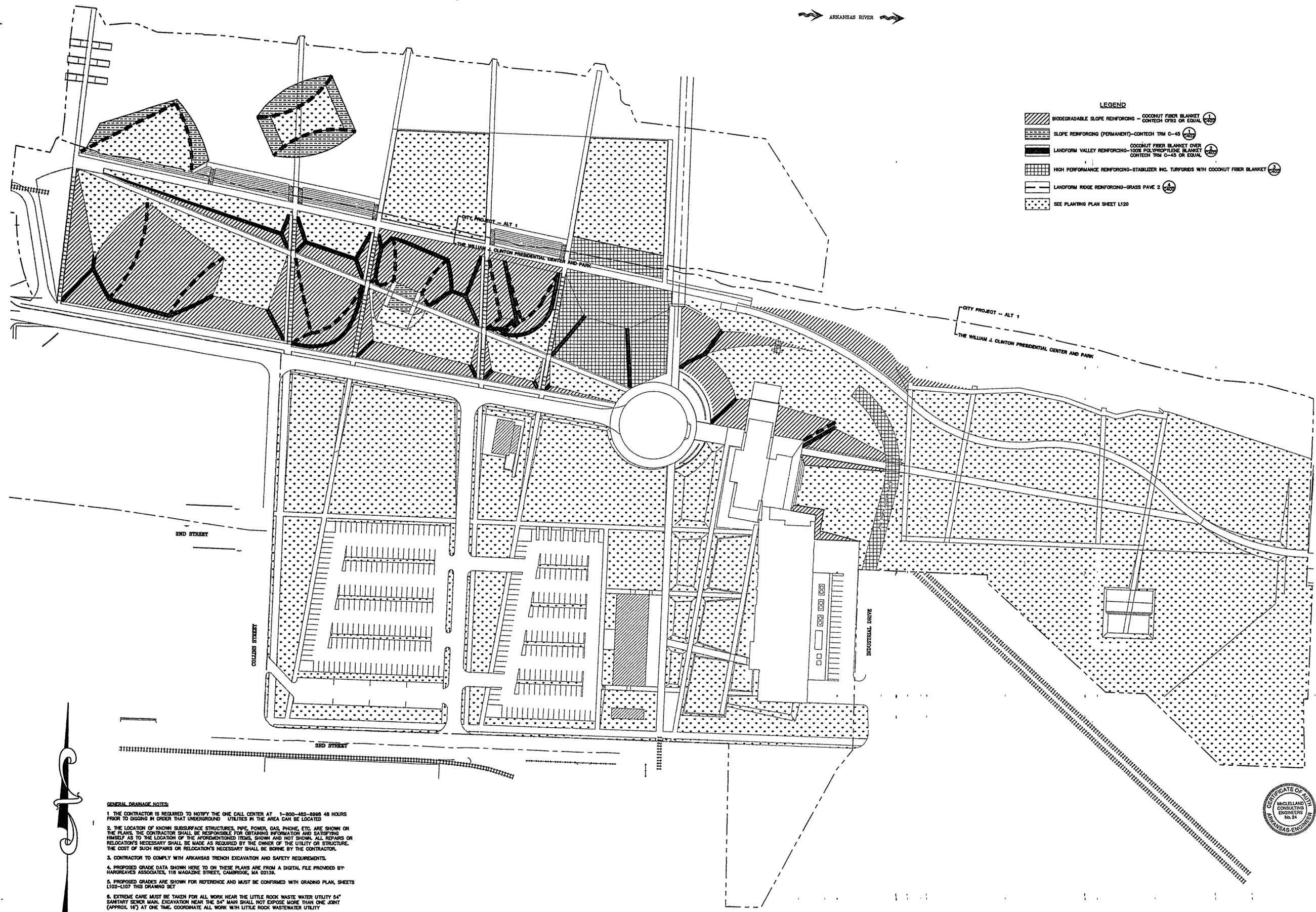
Signage Design
POULIN + MORRIS
286 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332

Issue	Date
05 100% Site Package 2 CD	08/27/02
04 90% Site Package 2 CD	08/16/02
03 60% Site Package 2 CD	06/29/02
02 100% Design Development	04/01/02
01 100% Site Package 1 CD	02/15/02

Job No: PPA 9908
Scale: HA CPC0101
Date: AS SHOWN
Title: **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
SITE UTILITY DETAILS
Sheet No: **C308**

→ ARKANSAS RIVER →

→ ARKANSAS RIVER →



- LEGEND**
- BIODEGRADABLE SLOPE REINFORING - COCONUT FIBER BLANKET CONTECH CF82 OR EQUAL (1/200)
 - SLOPE REINFORING (PERMANENT)-CONTECH TRM C-45 (1/200)
 - COCONUT FIBER BLANKET OVER 100% POLYPROPYLENE BLANKET CONTECH TRM C-45 OR EQUAL (1/200)
 - HIGH PERFORMANCE REINFORING-STABILIZER INC. TURFGRIDS WITH COCONUT FIBER BLANKET (1/200)
 - LANDFORM RIDGE REINFORING-GRASS PAVE 2 (1/200)
 - SEE PLANTING PLAN SHEET L120

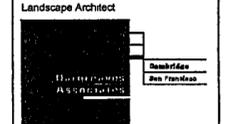
- GENERAL DRAINAGE NOTES:**
1. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-483-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
 2. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFORESAID STRUCTURES, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATION'S NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATION'S NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
 3. CONTRACTOR TO COMPLY WITH ARKANSAS TRENCH EXCAVATION AND SAFETY REQUIREMENTS.
 4. PROPOSED GRADE DATA SHOWN HERE TO ON THESE PLANS ARE FROM A DIGITAL FILE PROVIDED BY HARGREAVES ASSOCIATES, 118 MAGAZINE STREET, CAMBRIDGE, MA 02138.
 5. PROPOSED GRADES ARE SHOWN FOR REFERENCE AND MUST BE CONFIRMED WITH GRADING PLAN, SHEETS L102-L107 THIS DRAWING SET.
 6. EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN. EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROX. 16') AT ONE TIME. COORDINATE ALL WORK WITH LITTLE ROCK WASTEWATER UTILITY.
 7. REFER TO TRENCHING DETAILS FOR VARIOUS EMBEDMENT TYPES.
 8. PERFORATED AND TURF SUBSURFACE DRAINAGE SHALL HAVE POSITIVE SLOPE AND CONNECT INLET BOX AS INDICATED ON PLANS.

1" = 60'-0" 0 20 40 60 120FT

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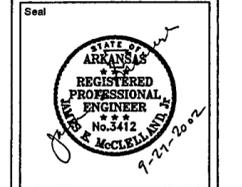
Electrical Engineer
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Manne + Structural Engineers
MOFFATT & NICHOL ENGINEERS
1019 East Hillbrook Road, Suite 150
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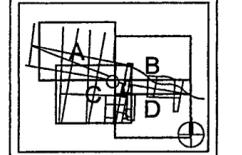
Fountain
DAN EUSER WATERARCHITECTURE INC.
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3E2
CANADA
905 884 4178

Playground Design
PLAY SITE ARCHITECTURE
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Signage Design
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280 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332



Issue	Date
04 100% Site Package 2 CD	08/27/02
03 90% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	08/29/02
01 100% Design Development	04/01/02



Job No PPA 9905
HA_CPG0101

Scale 1" = 60'-0"

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SLOPE STABILIZATION PLAN

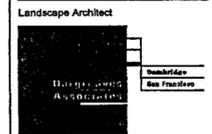
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C401

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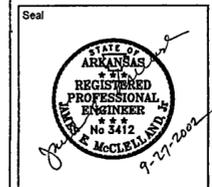
Electrical Engineer
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Little Rock, Arkansas 72201
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1616 East Millbrook Road, Suite 160
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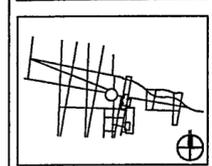
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01 100% Design Development	04/01/02

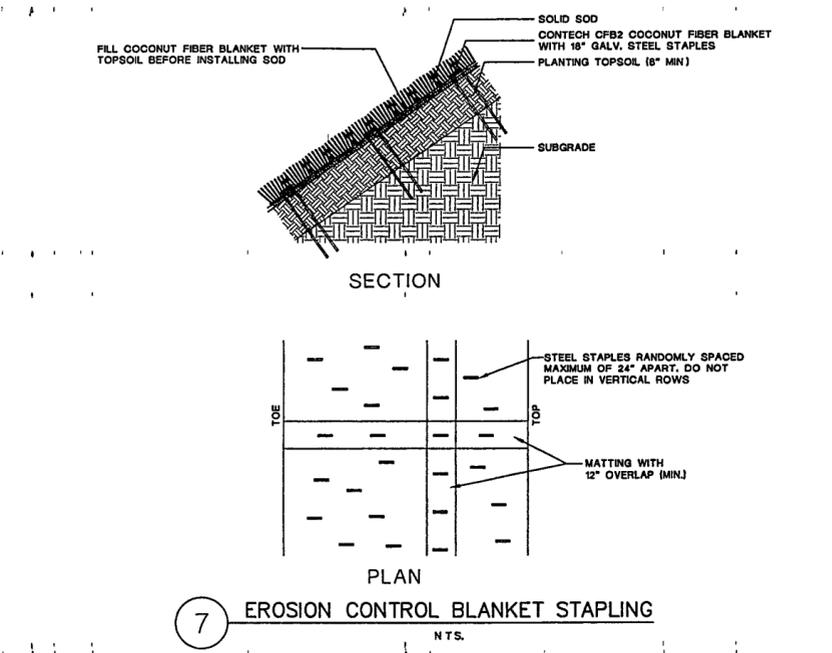
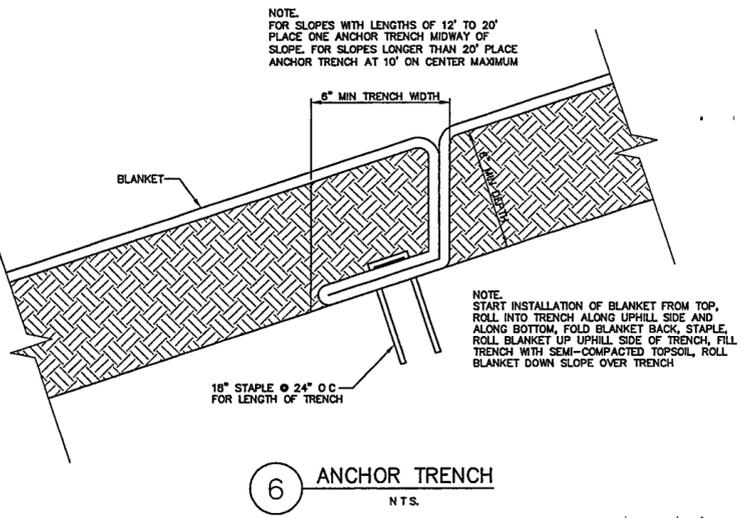
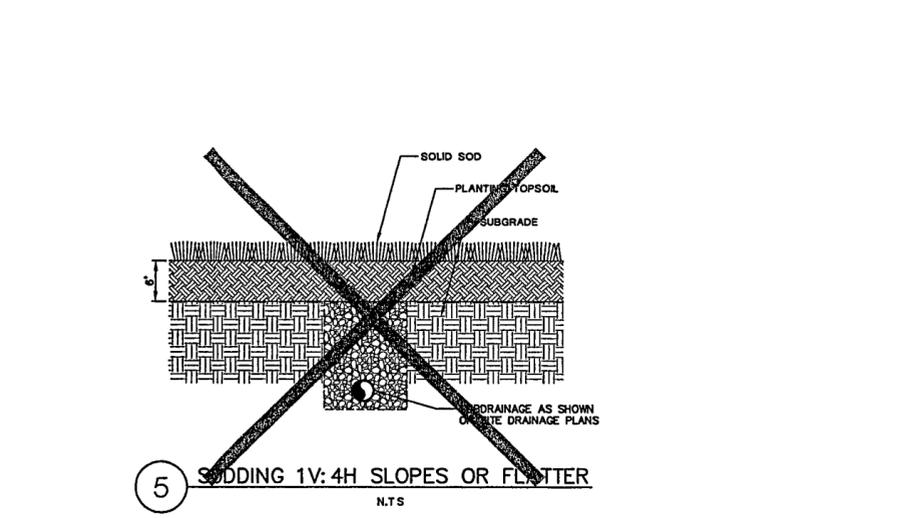
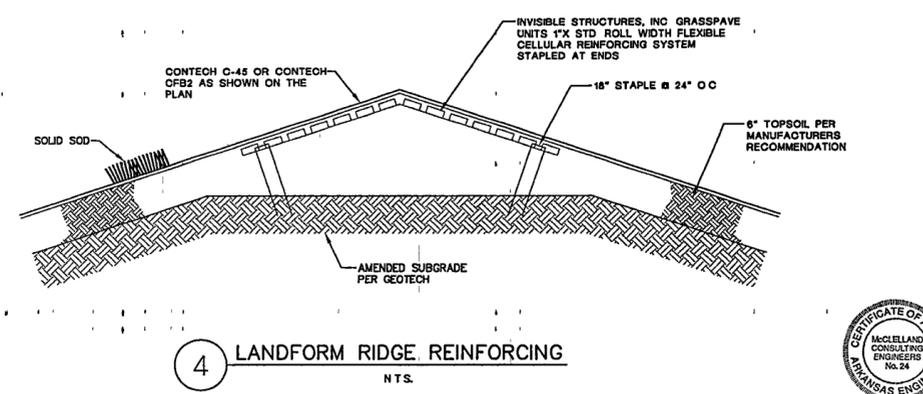
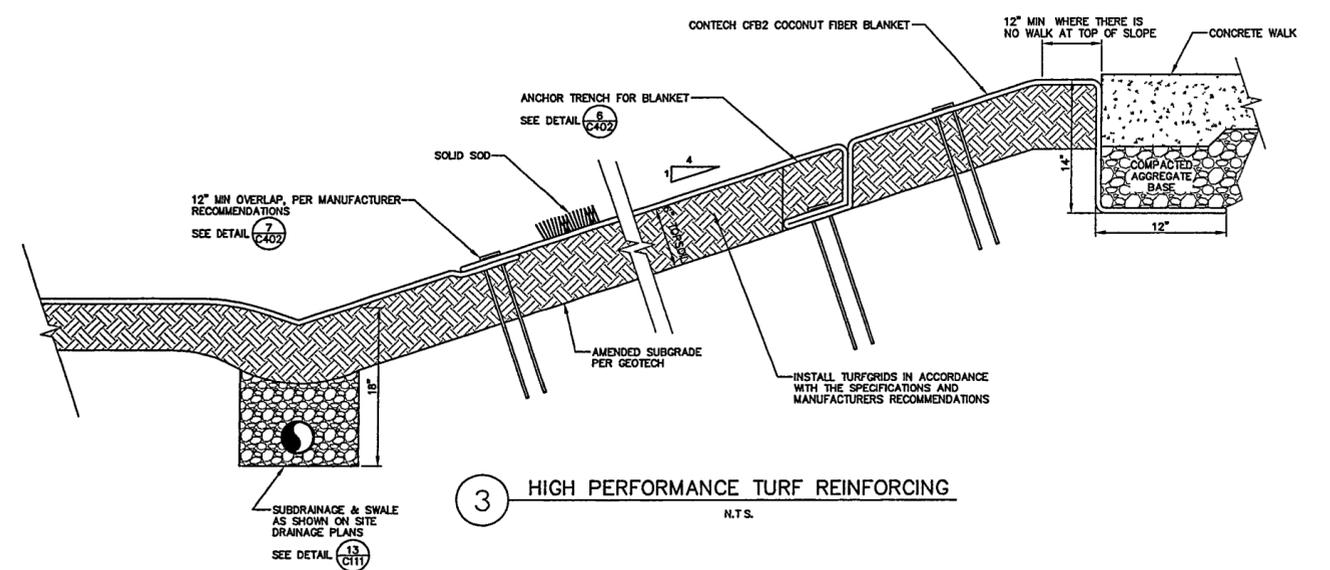
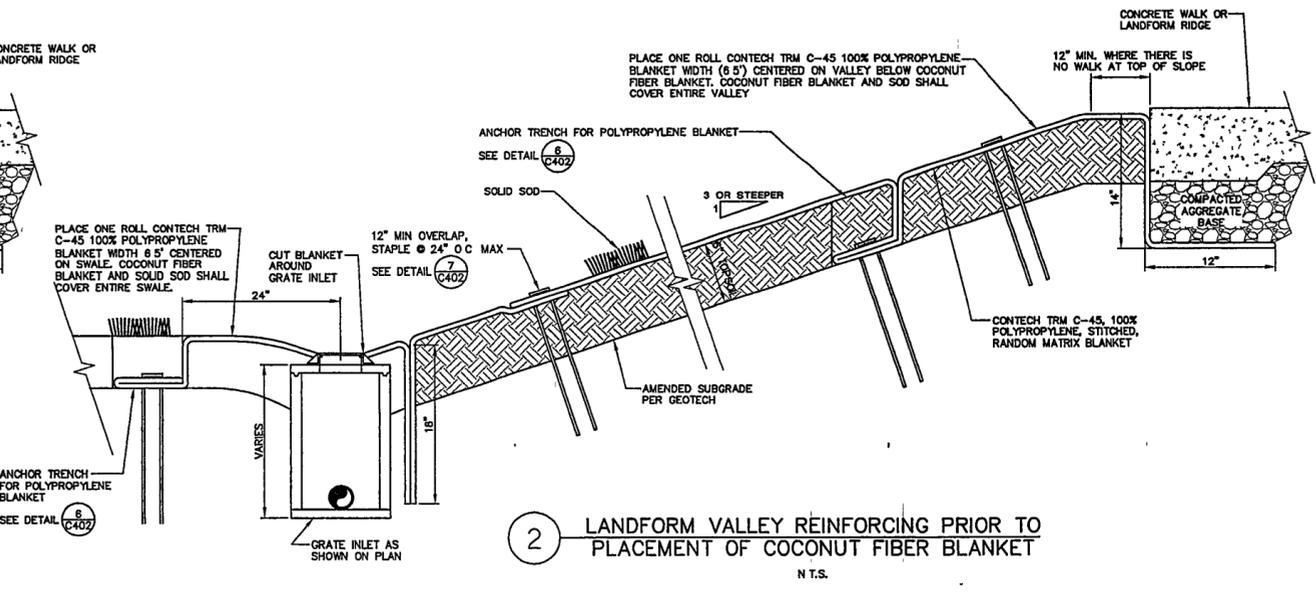
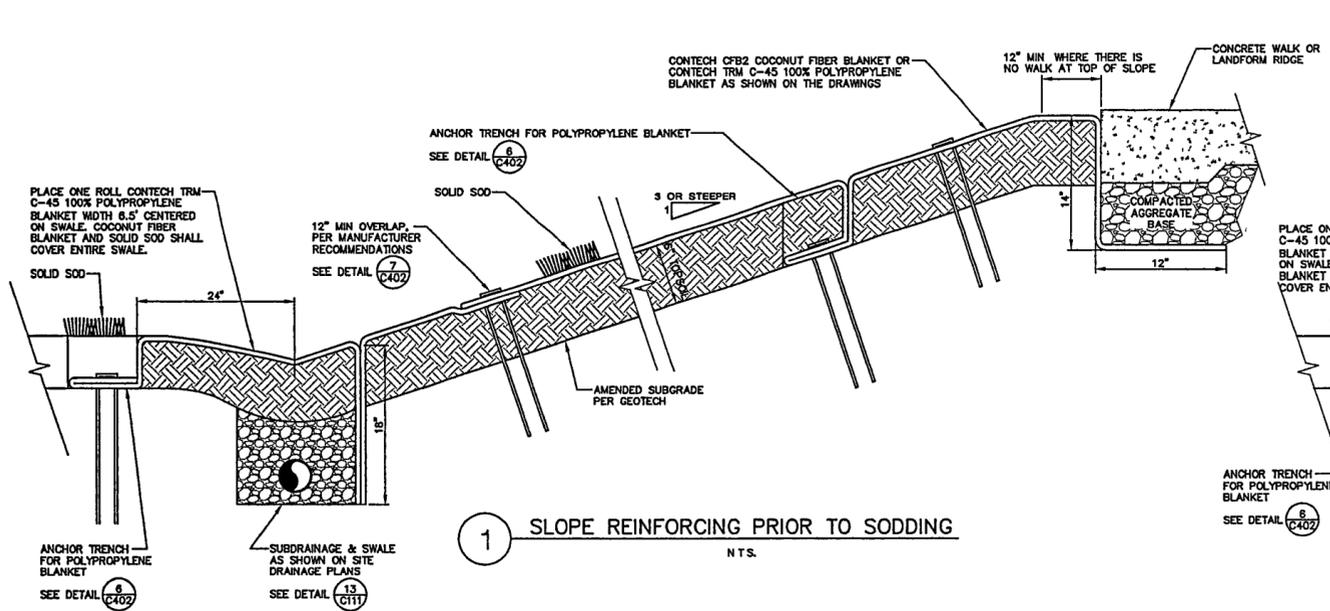


Job No PPA 9908
HA CPC0101
Scale AS SHOWN
Date SEPTEMBER 27, 2002
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SLOPE STABILIZATION
DETAILS

Sheet No

C402

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NOTE:
FOR SLOPES WITH LENGTHS OF 12' TO 20'
PLACE ONE ANCHOR TRENCH MIDWAY OF
SLOPE. FOR SLOPES LONGER THAN 20' PLACE
ANCHOR TRENCH AT 10' ON CENTER MAXIMUM

NOTE:
START INSTALLATION OF BLANKET FROM TOP,
ROLL INTO TRENCH ALONG UPHILL SIDE AND
ALONG BOTTOM, FOLD BLANKET BACK, STAPLE,
ROLL BLANKET UP UPHILL SIDE OF TRENCH, FILL
TRENCH WITH SEMI-COMPACTED TOPSOIL, ROLL
BLANKET DOWN SLOPE OVER TRENCH

STEEL STAPLES RANDOMLY SPACED
MAXIMUM OF 24" APART. DO NOT
PLACE IN VERTICAL ROWS

MATTING WITH
12" OVERLAP (MIN)

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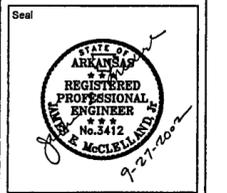
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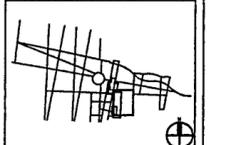
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Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/29/02



Job No PPA 9608
HA-CPC0101

Scale 1" = 10'-0"

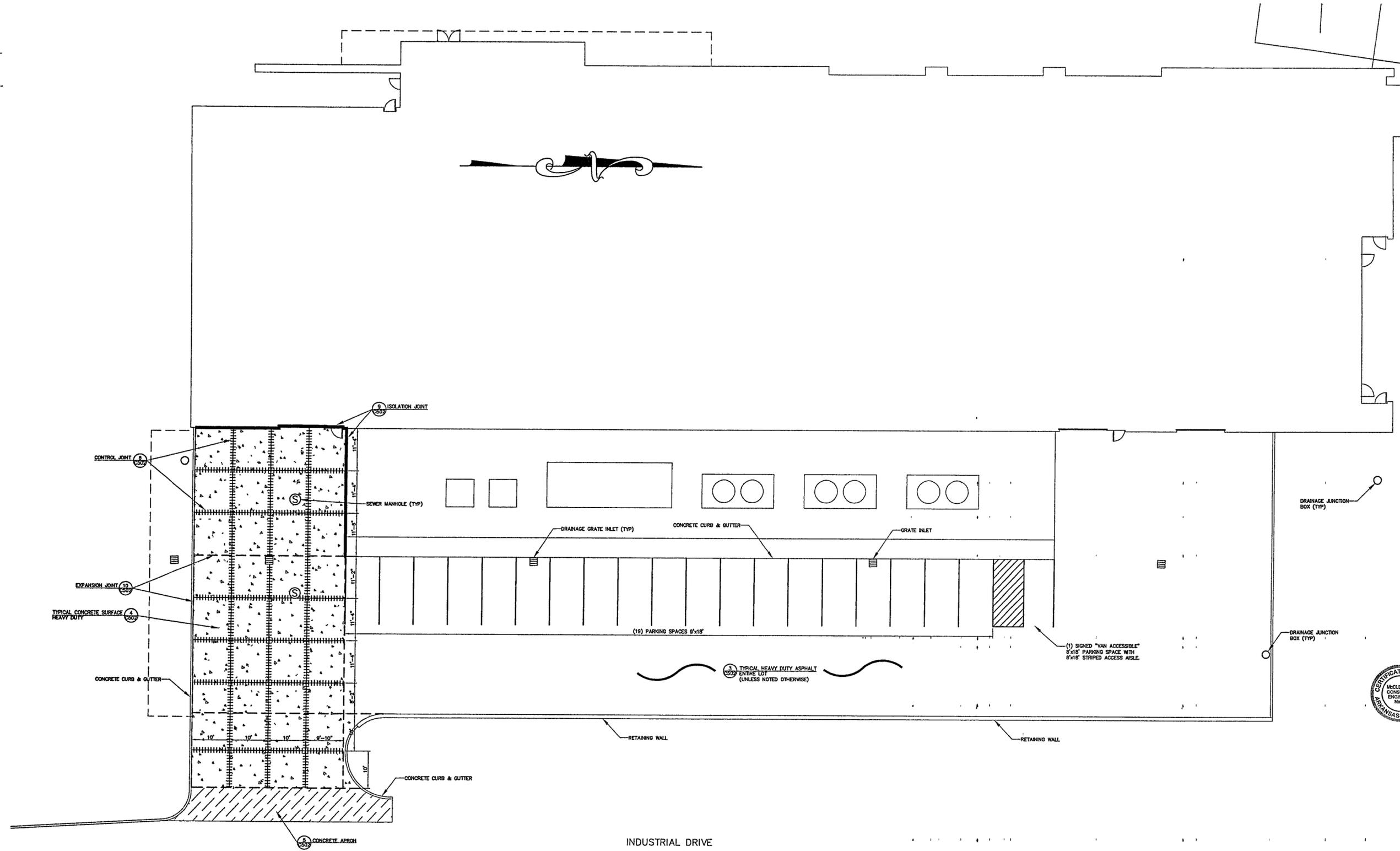
Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
STAFF AND SERVICE
AREA PAVING PLAN**

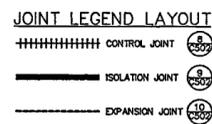
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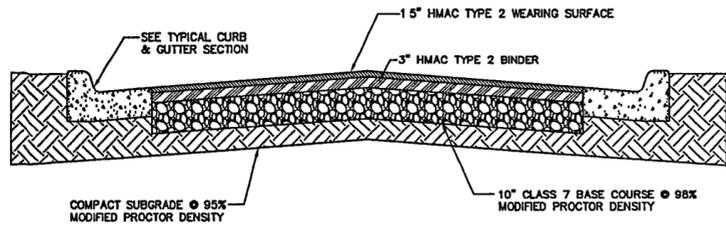
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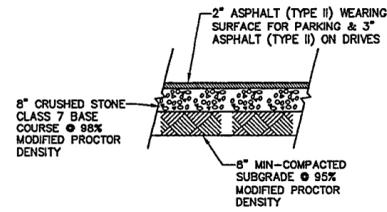
- NOTES**
1. ALL CONCRETE SHALL BE 4000 PSI HEAVY DUTY SECTION
 2. ALL DRAINAGE GRATE INLETS SHALL BE PROTECTED WITH EXTRA REINFORCEMENT IN SURROUNDING CONCRETE AT THE CORNERS OF THE INLETS.
 3. ISOLATION JOINTS SHALL BE INSTALLED AT ALL LOCATIONS WHERE CONCRETE PAVING MEETS STRUCTURES.
 4. PROPOSED GRADES ARE SHOWN ON GRADING PLAN.
 5. GRATE INLETS ARE SHOWN FOR REFERENCE ONLY, ALL GRATE INLETS ARE SHOWN IN SITE DRAINAGE PLAN.
 6. SEWER MANHOLES ARE SHOWN FOR REFERENCE ONLY, ALL SEWER MANHOLES ARE SHOWN IN THE SITE DRAINAGE PLAN.
 7. SEE LANDSCAPE ARCHITECT'S SITE LAYOUT & GRADING PLAN FOR LAYOUT, ELEVATIONS, SLOPE, & STRIPING.



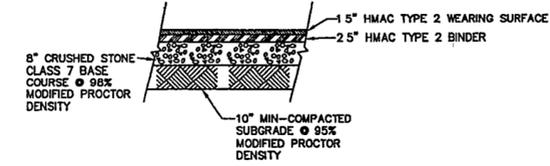
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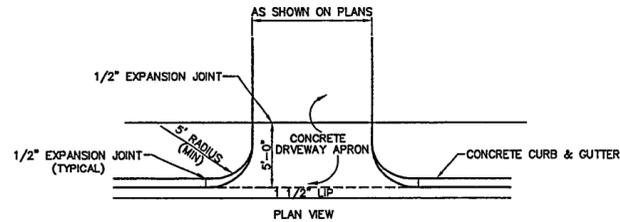
1 TYPICAL ROAD PAVING DETAIL
N.T.S.



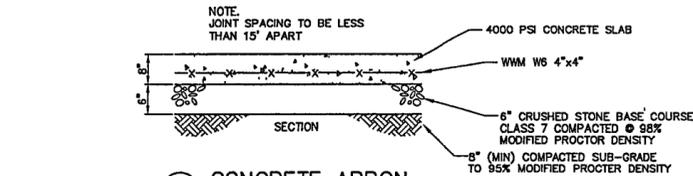
2 TYPICAL ASPHALT SECTION
N.T.S.



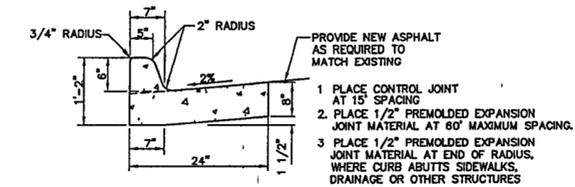
3 TYPICAL HEAVY DUTY ASPHALT SECTION
N.T.S.



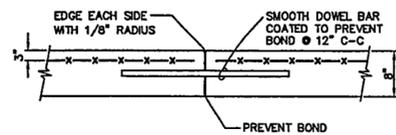
4 TYPICAL CONCRETE SURFACE
HEAVY DUTY SECTION
N.T.S.



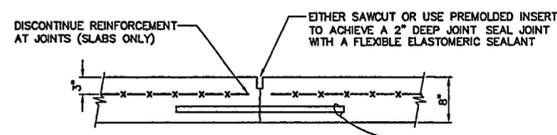
5 CONCRETE APRON
N.T.S.



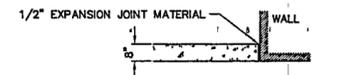
6 TYPICAL CURB & GUTTER
N.T.S.



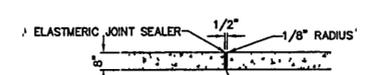
7 BUTT-TYPE CONSTRUCTION
JOINT WITH DOWELS
N.T.S.



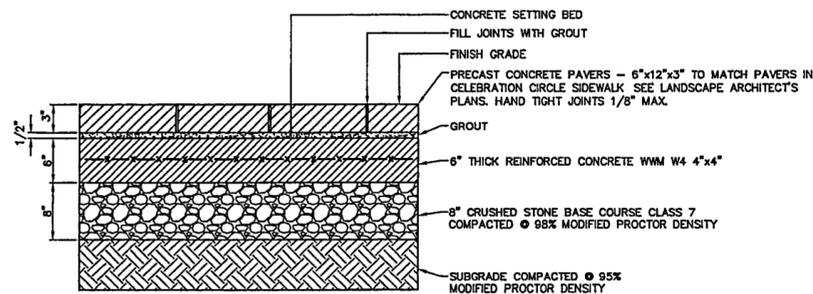
8 TYPICAL CONTROL JOINT IN
SLAB (WITH DOWEL)
N.T.S.



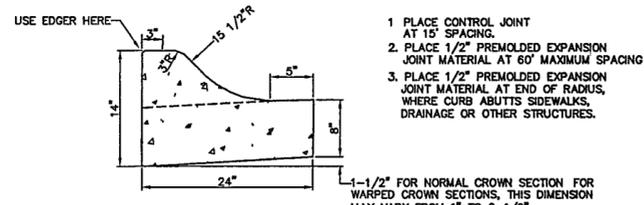
9 ISOLATION JOINT
N.T.S.



10 EXPANSION JOINT (EJ)
N.T.S.



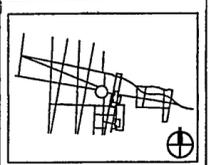
11 VEHICULAR PAVERS ON CONCRETE
SLAB @ CELEBRATION CIRCLE
N.T.S.



12 TYPICAL ROLL CURB DETAIL
N.T.S.



Revision	Description	Date
04	100% Site Package 2 CD	09/27/02
03	80% Site Package 2 CD	09/18/02
02	60% Site Package 2 CD	08/29/02
01	100% Design Development	04/01/02



Job No: PPA 8908
Scale: AS SHOWN
Date: SEPTEMBER 27, 2002
Title: SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
MISCELLANEOUS
VEHICULAR PAVING
DETAILS
Sheet No:

C502

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Sheet

04	100% Site Package 2 CD	08/27/02
03	90% Site Package 2 CD	08/16/02
02	60% Site Package 2 CD	06/29/02
01	100% Design Development	04/01/02
	Issue	Date

Job No	PPA 8638
	HA, CPC0101
Scale	1" = 60'-0"
Date	SEPTEMBER 27, 2002
Title	SITE PACKAGE 2 100% CONSTRUCTION DOCUMENTS SITE LIGHTING & ELECTRICAL LAYOUT
Sheet No	E101

LEGEND

KEY	MANUFACTURER	NAME OF FIXTURE	NOTES
A1	BEGA	DISK 20'	REFER TO OTHER E' SHEETS
A2	BEGA	DISK 12'	
E1	SYSTEMALUX	THREE SIDED LIGHT STICK	
F1	HESS AMERICA	MINISPARKS, SINGLE PORT	
F2	HESS AMERICA	POLE/NOVARA 4500S, 1 LAMP	
F3	HIDREL	MODULAR IN-GRADE UP LIGHT	
M2	STERNER, INFRANOR	HIGH MAST LIGHT, 2 LAMPS	
M3	STERNER, INFRANOR	HIGH MAST LIGHT, 3 LAMPS	

FIXTURE TYPES AND LAMPING

THE LIGHTING FIXTURE TYPE SELECTION
USES CUTOFF LIGHT FIXTURES TO AVOID SHOOTING LIGHT DIRECTLY UP INTO THE NIGHT SKY
• USES VISIBLE LIGHT SOURCES FOR PATH LIGHTS TO EMPHASIZE THE PROJECT GEOMETRIES,
PROVIDE INTEREST IN THE NIGHT LANDSCAPE, AND TO PROVIDE VERTICAL LUMINANCE FOR
PEDESTRIANS USING THE PATHS
PROVIDES A HIERARCHY OF LIGHTING THROUGH THE PARK TO ENHANCE THE PARK-SCAPE
USES VARIOUS SURFACE BRIGHTNESS TO ADD INTEREST, DEPTH, AND SAFETY,
• USES UPLIGHTING FOR LIMITED LIGHTING OF LANDSCAPE ELEMENTS

METAL HALIDE LAMPS ARE PREFERRED WHEN METAL HALIDE IS NOT AVAILABLE, IN THE CASE OF
SOME SMALLER FIXTURES, COLOR CORRECTED ALTERNATIVES WILL BE USED FOR THE NEXT BEST
MATCH TO METAL HALIDE

ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
LIGHTING STANDARDS REFERENCE

ROADWAYS
LOCAL ROADWAYS
(ASPHALT ROAD SURFACE WITH VERY SMOOTH TEXTURE)
COMMERCIAL AREAS 0.9
INTERMEDIATE AREAS 0.6
RESIDENTIAL AREAS 0.4

BIKEWAYS

ALONG ROADSIDE
COMMERCIAL AREAS 0.9
INTERMEDIATE AREAS 0.5
RESIDENTIAL AREAS 0.2
DISTANT FROM ROADSIDE 0.5

WALKWAYS

ALONG ROADSIDE
COMMERCIAL AREAS 0.9
INTERMEDIATE AREAS 0.5
RESIDENTIAL AREAS 0.2
DISTANT FROM ROADSIDE 0.5
PARK WALKWAYS 0.5
PEDESTRIAN STAIRWAYS 0.5

GARDENS

GENERAL LIGHTING 0.5

PARKING AREAS

SELF PARKING 1.0

LIGHTING GOALS

TO LIGHT THE PARK APPROPRIATELY
FOR PHYSICAL SAFETY AND PERSONAL SECURITY,
FOR ARCHITECTURAL EFFECT FOR THE MUSEUM AND ARCHIVE,
TO PROVIDE APPROPRIATE CONTEXT FOR THE MUSEUM AND ARCHIVE,
TO WORK WITHIN ECONOMIC PARAMETERS OF THE PROJECT BUDGET,
TO MAINTAIN THE APPROPRIATE IMPORTANCE OF ENVIRONMENTAL ISSUES OF LIGHT
TRESPASS

LIGHTING CONCEPTS

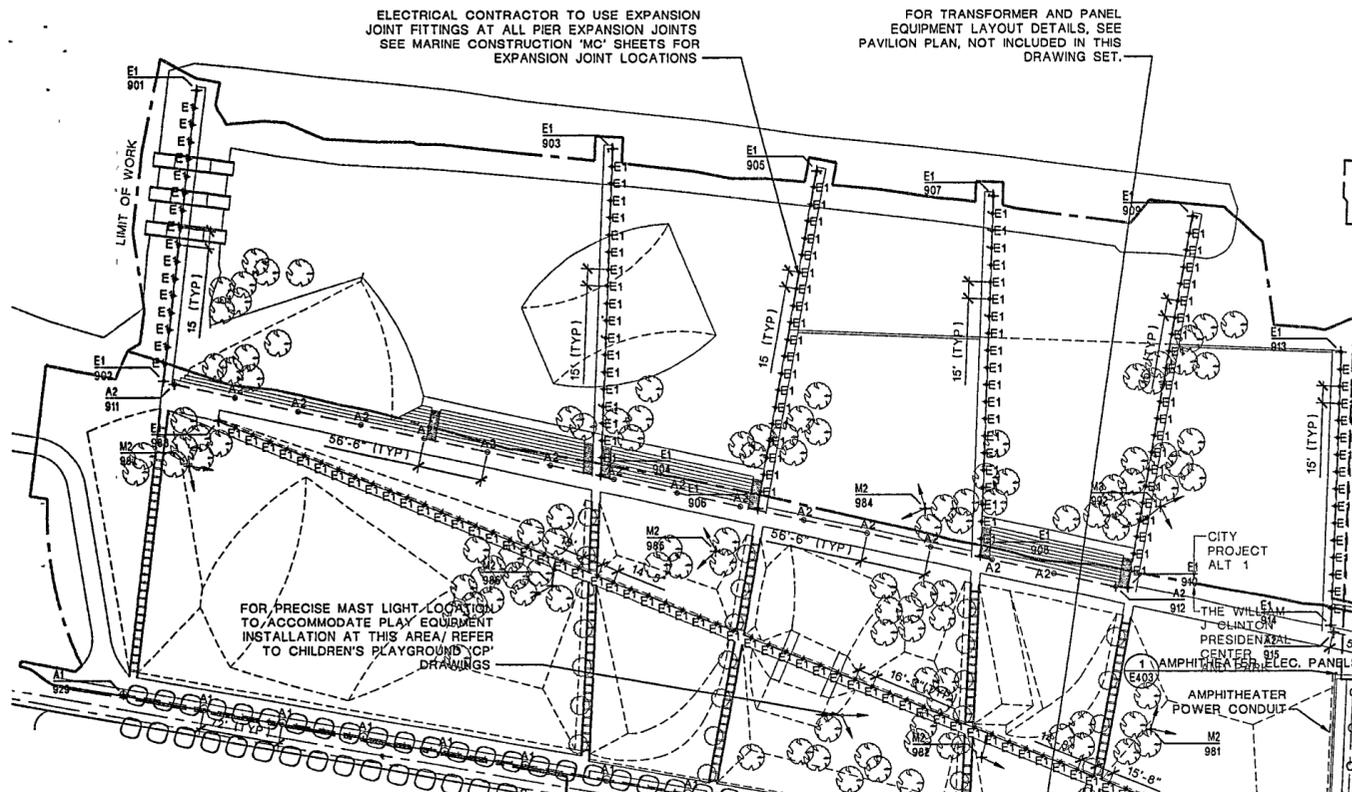
EMPHASIZE THE MONUMENTAL ARCHITECTURE OF THE MUSEUM AND ARCHIVE,
EMPHASIZE THE GEOMETRIC STRUCTURE OF THE PARK,
EMPHASIZE THE TERMINATION OF THE AXIS OF PRESIDENT CLINTON AVENUE,
UNITE THE AXIS WITH THE STREETSCAPE OF DOWNTOWN LITTLE ROCK,
PROVIDE APPROPRIATE LIGHTING LEVELS FOR SUPPORT AREAS,

LIGHTING LEVELS FOR SPECIFIC AREAS OF THE PARK

LIGHTING LAYOUT ACCOMMODATES AVERAGE MINIMUM FOOTCANDLE STANDARDS OF THE
ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) - LISTED BELOW FOR
REFERENCE. ALL LIGHT LEVELS ARE GIVEN IN AVERAGE MINIMUM FOOTCANDLES ON A
HORIZONTAL SURFACE AT THE GROUND UNLESS OTHERWISE NOTED

PRESIDENT CLINTON AVENUE 0.9
BYRD STREET 0.9
BIKEWAYS AND WALKWAYS ALONG ROADSIDE 0.9
BIKEWAYS AND WALKWAYS DISTANT FROM ROADSIDE 0.5
PARKING AREAS 1.0

LIGHTING LAYOUT ACCOMMODATES RECOMMENDED AVERAGE TO MINIMUM RATIOS TO PREVENT
EXCESSIVE HIGH CONTRAST "BRIGHTNESS" RELATIVE TO BACKGROUND LIGHT LEVELS

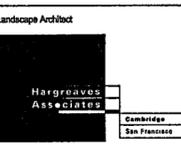


COORDINATE POINT SCHEDULE

POINT NO	NTH	EST	POINT NO	NTH	EST
901	151221.84	1233560.76	950	150006.39	1234217.49
902	150959.37	1233531.05	951	150005.80	1234235.99
903	1511170.79	1233928.99	952	150006.17	1234246.83
904	150868.01	1233915.27	953	150240.45	1234277.34
905	151161.78	1234104.86	954	150348.58	1233959.96
906	150866.33	1234052.59	955	150349.06	1233896.77
907	151129.18	1234259.92	956	150598.01	1233906.18
908	150814.42	1234246.58	957	150551.10	1233996.18
909	151111.41	1234433.45	958	150017.40	1233902.13
910	150786.41	1234376.17	959	150017.95	1233883.84
911	150965.50	1233640.32	960	150335.57	1234189.89
912	150787.18	1234385.57	962	150001.81	1234444.44
913	150992.26	1234562.30	963	150035.37	1234445.77
914	150752.54	1234533.09	965	150319.49	1234323.96
915	150746.16	1234555.42	966	150035.89	1234241.31
916	150721.12	1234611.27	968	149977.53	1234174.84
917	150672.20	1234781.84	976	149987.79	1234647.34
918	150283.66	1235618.85	977	150296.38	1234700.21
919	150518.68	1235407.10	978	150008.68	1234972.58
920	150189.17	1235349.03	979	150297.65	1234884.30
921	150348.63	1235414.77	980	150581.09	1234490.39
922	150469.89	1234790.22	981	150660.97	1234396.13
923	150444.21	1234784.63	982	150636.68	1234248.03
924	150361.46	1234768.28	984	150866.08	1234198.06
925	150235.15	1234839.52	985	150919.02	1234015.74
926	150055.12	1234832.48	986	150788.89	1233873.12
927	149935.99	1234854.61	987	150883.52	1233553.04
928	149969.71	1233922.30	988	150933.34	1233580.71
929	150692.95	1234495.48	989	150695.08	1234576.68
930	150531.68	1234410.60	990	150693.90	1234579.58
931	150617.66	1234687.16	991	150604.05	1234195.47
932	150487.13	1234630.78	992	150857.27	1234404.59
933	150458.45	1234651.66	993	150213.43	1234452.74
934	150319.83	1234627.20			
935	149991.87	1234669.44			
936	149892.38	1234653.06			
937	150321.83	1234665.97			
938	150408.96	1234669.26			
940	150326.09	1234457.16			
941	150332.60	1234293.59			
942	150334.98	1234230.33			
943	150524.72	1234237.81			
944	150484.16	1234322.06			
945	150270.85	1234282.70			
946	150272.85	1234227.94			
947	150242.29	1234226.74			
948	150067.09	1234219.67			
949	150036.74	1234218.68			

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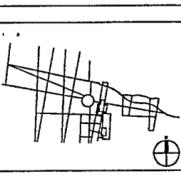
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O4	100% Site Package 2 CD	09/27/02
O3	90% Site Package 2 CD	08/18/02
O2	80% Site Package 2 CD	06/29/02
O1	100% Design Development Issue	04/01/02



Job No. PPA 9908
HA, CPC0101

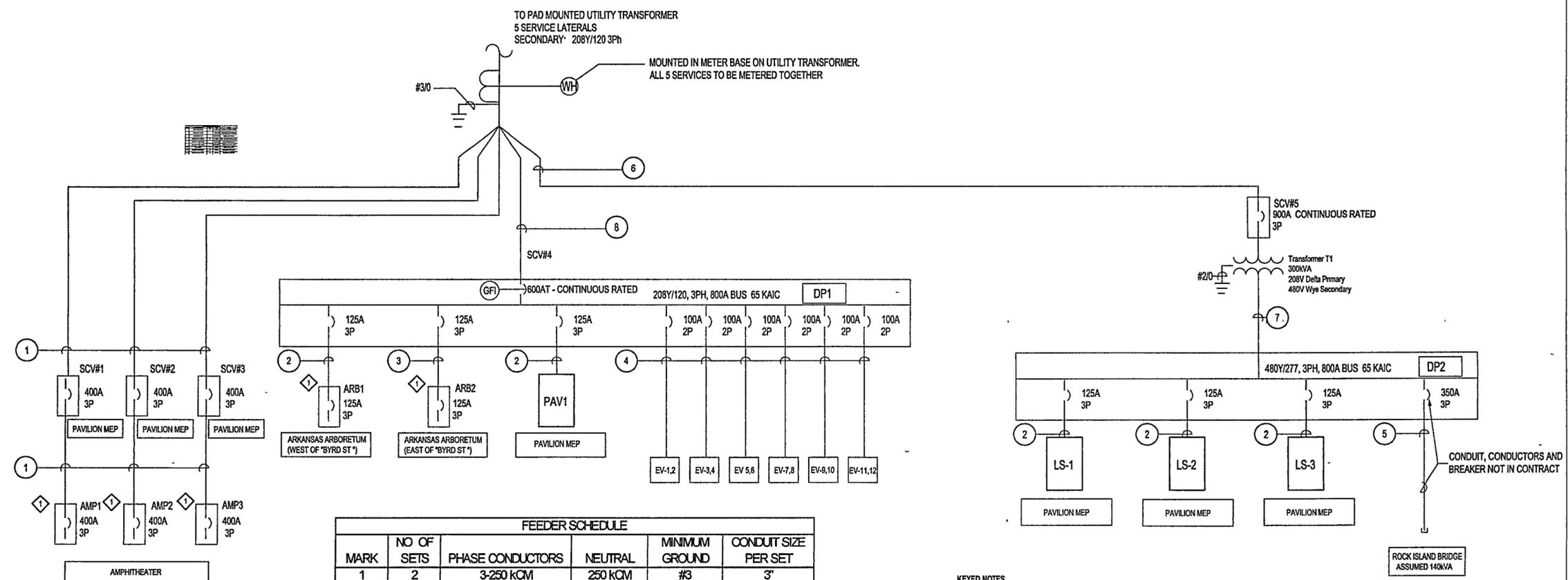
Scale

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SINGLE LINE DIAGRAM &
ELECTRICAL SYMBOLS

Sheet No.

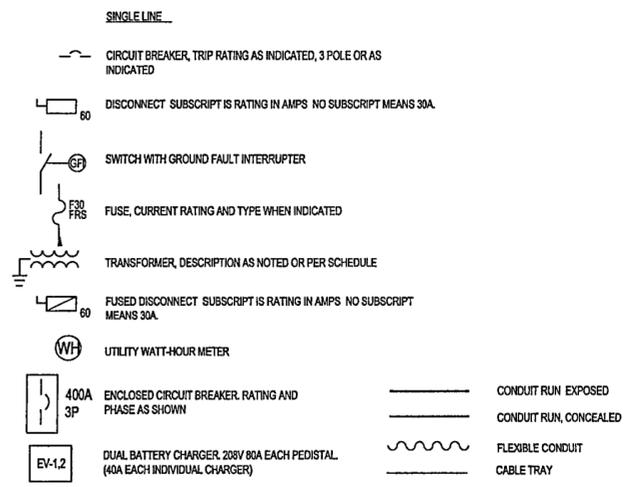
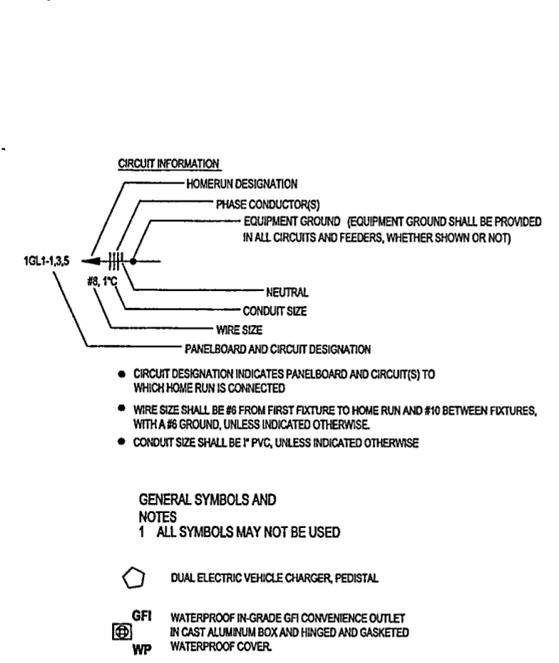
E103



FEEDER SCHEDULE					
MARK	NO OF SETS	PHASE CONDUCTORS	NEUTRAL	MINIMUM GROUND	CONDUIT SIZE PER SET
1	2	3-250 kCM	250 kCM	#3	3"
2	1	3-#1	#1	#6	2"
3	1	3-#1/0	#1/0	#6	2"
4	1	3-#3/0	#3/0	#4	1.5"
5	2	3-#1/0	#1/0	#2/0	2"
6	3	3-500 kCM	500 kCM	#2/0	3"
7	3	3-#3/0	-	#2	2.5"
8	3	3-250kCM	250 kCM	#1	3"

KEYED NOTES
1 REF SHEET E404 DETAIL 3 FOR DETAIL OF WIRING AND CONTRACTOR INSTALLED PANEL MOUNTED CONNECTORS

1 SITE LIGHTING AND POWER ELECTRICAL SINGLE LINE



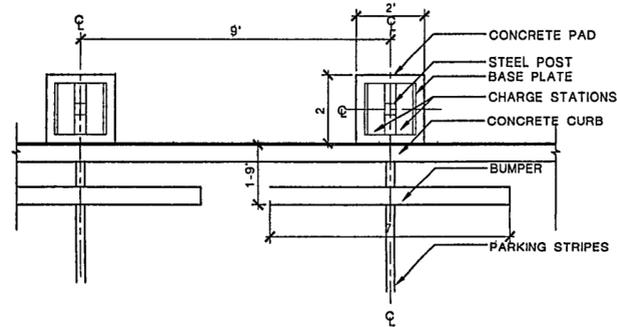
2 ELECTRICAL ENGINEERING NOTES, ABBREVIATIONS AND SYMBOLS

LIGHTING FIXTURE SCHEDULE				
MARK	MANUFACTURER & CAT NO	VOLTS	LAMPS	REMARKS
A1	BEGA "DISK LIGHT" #8101MH	277	1-150W/G12T6 MH	20' POLE MOUNTED NO TILT ON REFLECTIVE.
A2	BEGA "DISK LIGHT" #8200MH	277	1-70W/G12T6 MH	12' POLE MOUNTED NO TILT ON REFLECTIVE.
C	BEGA "LIGHT STICK" #8985P	277	1-75W/F80T12/HO	INCLUDES #8901A ANCHORAGE
E1	SISTEMALUX "MINISPARKS" #S.4832	277	1-9W/G23-2 CF	SINGLE PORT DRIVE-OVER BURIED LUMINAIRE
F1	HESS AMERICA "NOVARA" #N450S-P	277	1-250WMH/2/24CF	14 8' POLE MOUNTED SINGLE FIXTURE
F2	HESS AMERICA "NOVARA" #N450S-P	277	2-250WMH/2/24CF	14 8' POLE MOUNTED DOUBLE FIXTURE
G	HYDREL #M84000	277	1-75WMH	MODULAR IN-GRADE UP LIGHT
M2	STERNER "INFRANOR" SERIES 715	480	2-175WMH	HIGH MAST LIGHT DOUBLE FIXTURE
M3	STERNER "INFRANOR" SERIES 715	480	3-175WMH	HIGH MAST LIGHT TRIPLE FIXTURE

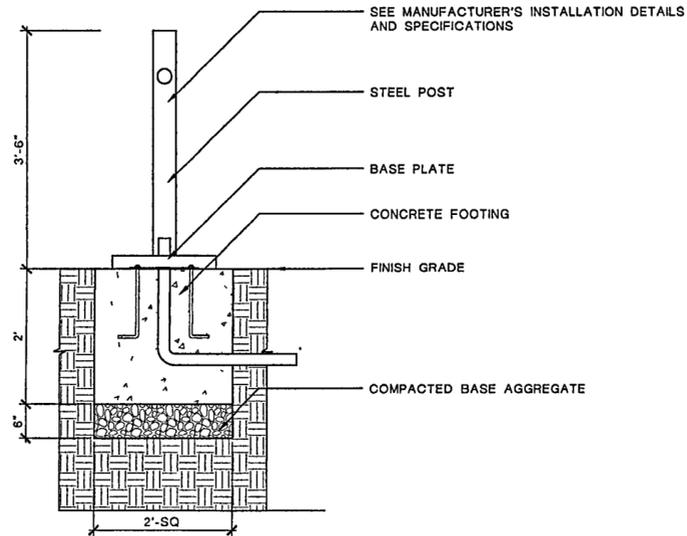
3 LIGHTING FIXTURE SCHEDULE



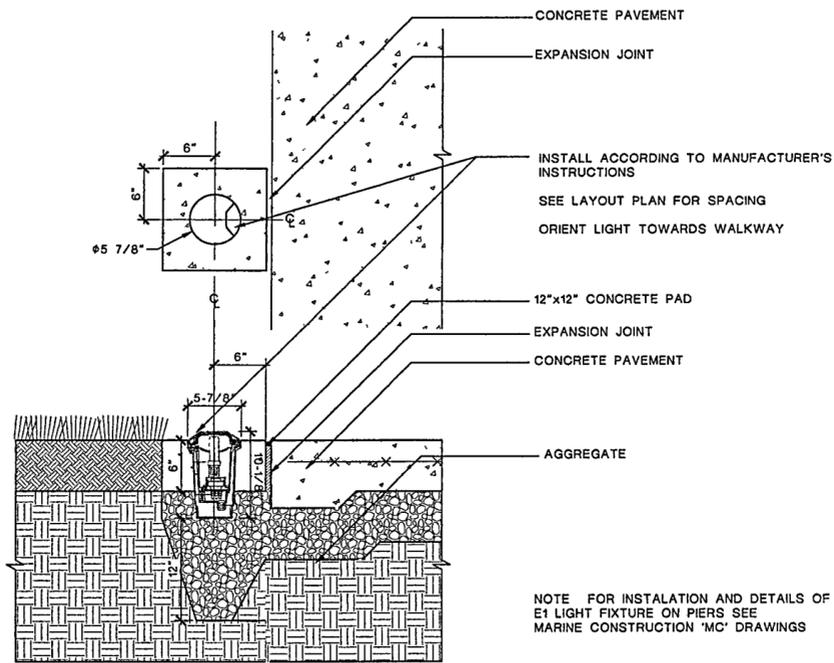
NOTE:
LOCATE CHARGE STATION
ON RIGHT AND LEFT SIDES OF PEDESTAL
FOR 2 CAR ACCESS TO CHARGE STATION



6 EV CAR CHARGER PLAN
SCALE 1/2" = 1'

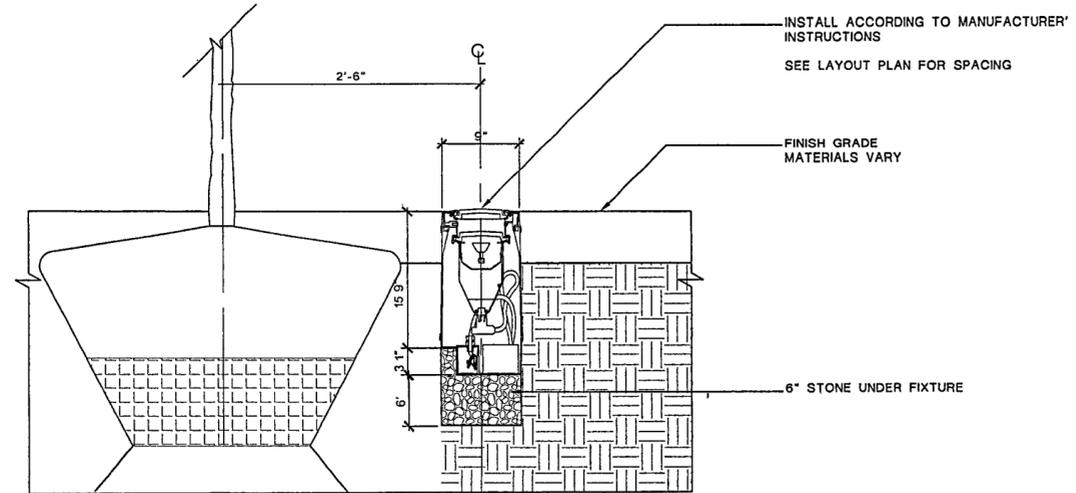


5 EV CAR CHARGER FOOTING SECTION
SCALE 1" = 1'

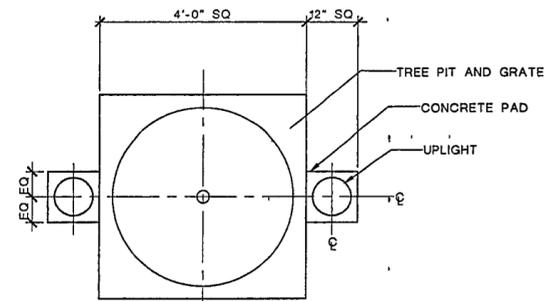


NOTE FOR INSTALLATION AND DETAILS OF
E1 LIGHT FIXTURE ON PIERS SEE
MARINE CONSTRUCTION 'MC' DRAWINGS

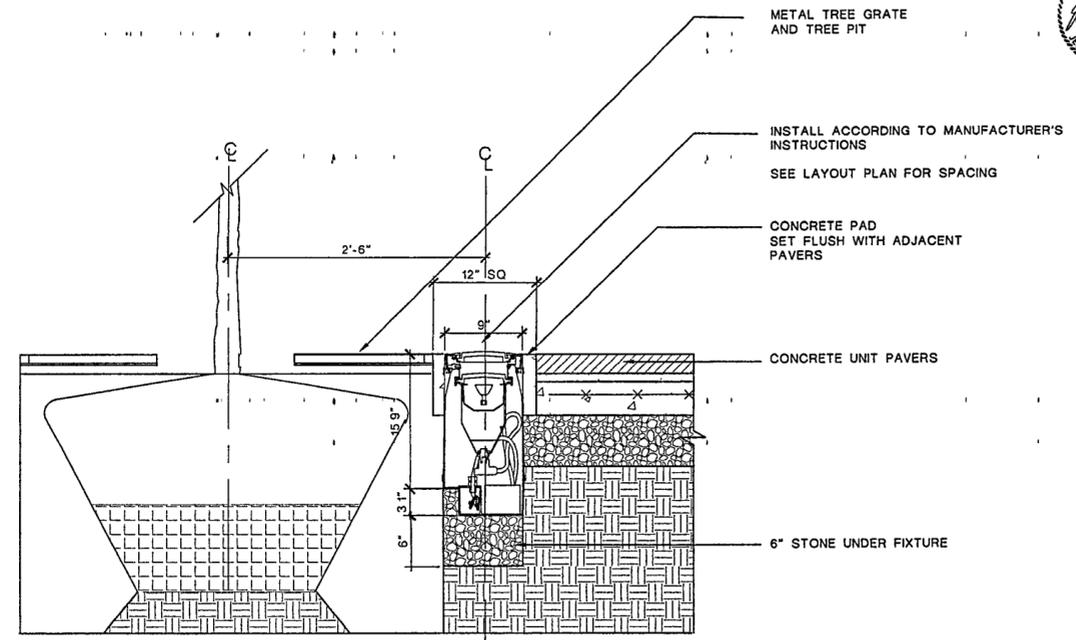
4 FIXTURE E1 FOOTING DETAIL
SCALE 1 1/2" = 1'-0"



3 FIXTURE G FOOTING DETAIL (TYP)
SCALE 1 1/2" = 1'-0"



2 FIXTURE G FOOTING DETAIL @ SCHOLARS' GARDEN
SCALE 3/4" = 1'



1 FIXTURE G FOOTING DETAIL @ SCHOLAR'S GARDEN
SCALE 1 1/2" = 1'-0"

WILLIAM J. CLINTON
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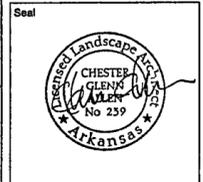
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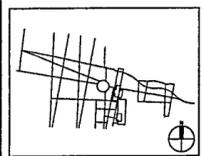
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Issue	Date
02	100% Site Package 2 CD 09/27/02
01	90% Site Package 2 CD 08/16/02

Issue Date



Job No. PPA 9908
HA CPC0101

Scale AS SHOWN

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE LIGHTING
DETAILS

Sheet No.

E402

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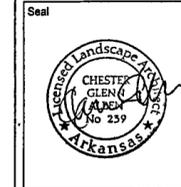
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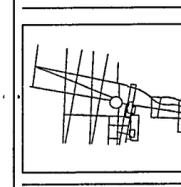
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01	100% Site Package 2 CD	09/27/02
Issue		Date



Job No PPA 9908
HA CPC0101

Scale AS NOTED

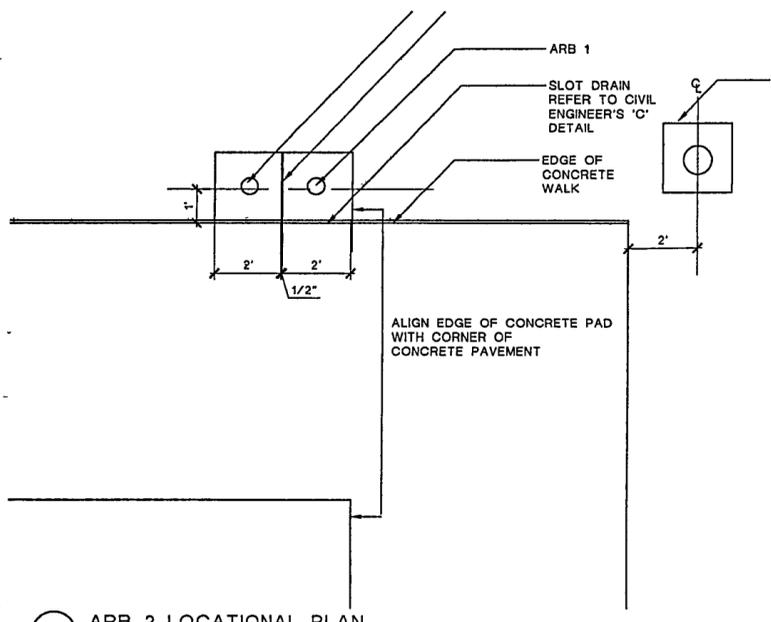
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
SITE LIGHTING
DETAILS

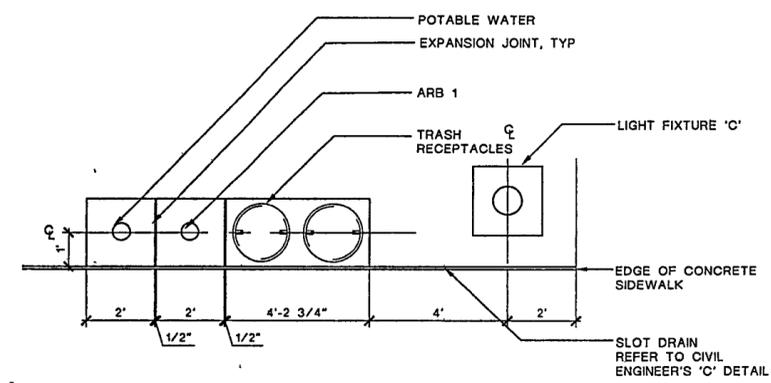
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E403

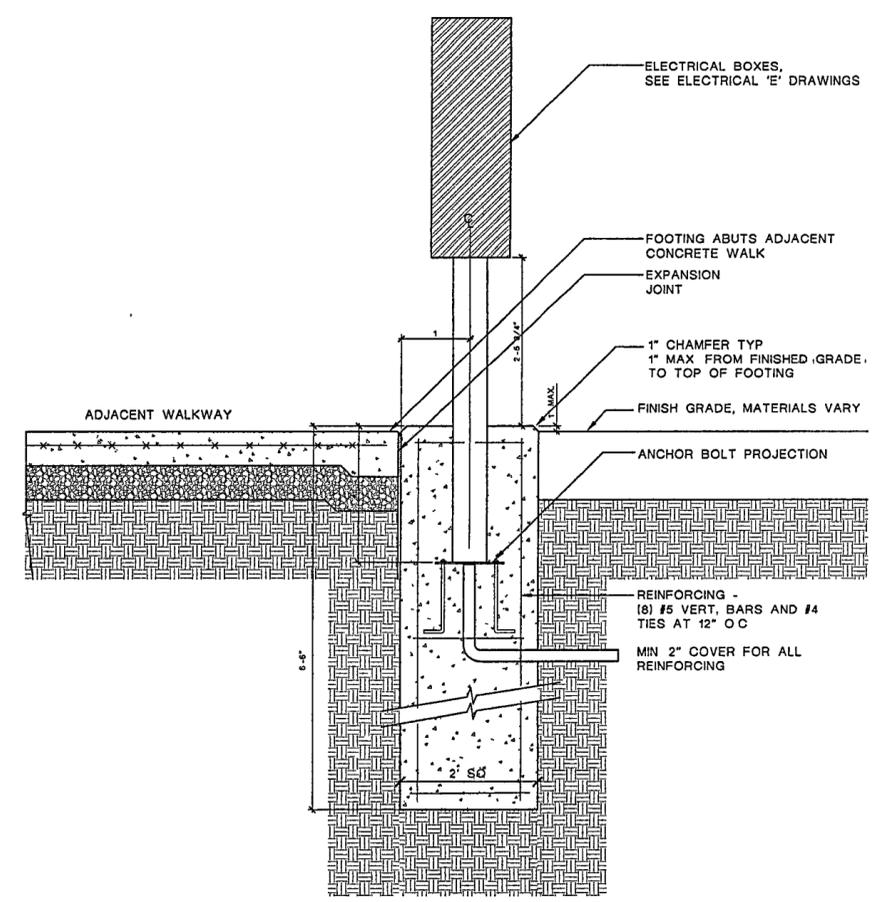
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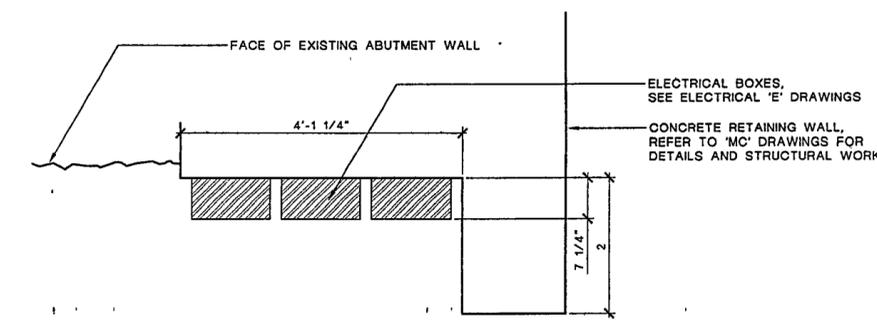
5 ARB 2 LOCATIONAL PLAN
SCALE: 1/2"=1'



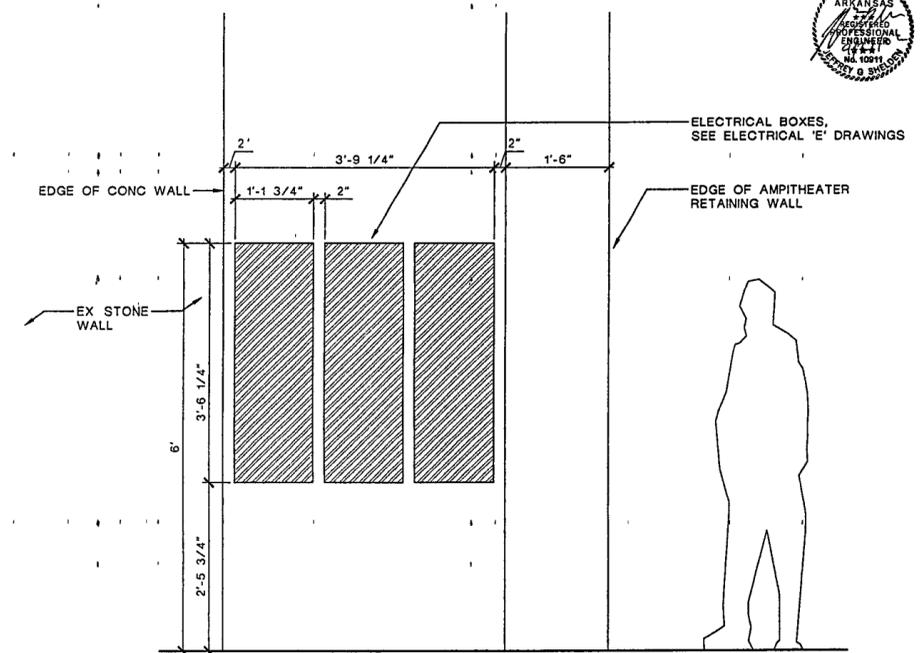
4 ARB 1 LOCATIONAL PLAN
SCALE 1/2"=1'



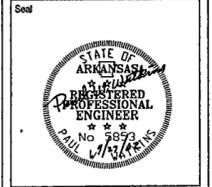
3 ARBORETUM POWER FOOTING
SCALE 1"=1'



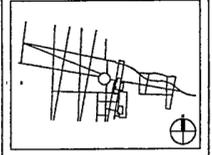
2 AMPHITHEATER ELECTRICAL BOXES
SCALE 1"=1'



1 AMPHITHEATER ELECTRICAL BOXES ELEVATION
SCALE 1"=1'



Issue	Date
O3 100% Site Package 2 CD	09/27/02
O2 90% Site Package 2 CD	08/16/02
O1 80% Site Package 2 CD	06/29/02



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HA CPC0101

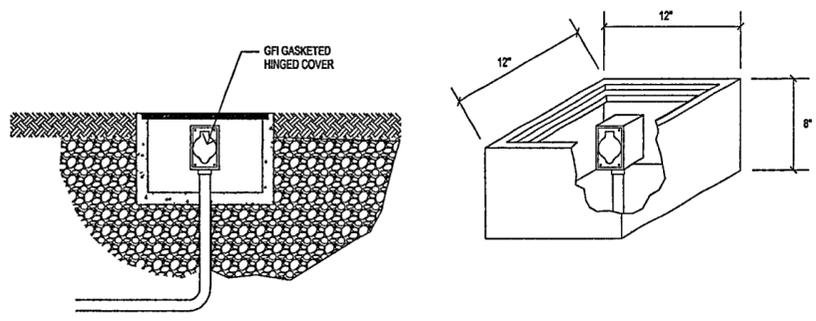
Scale

Date SEPTEMBER 27, 2002

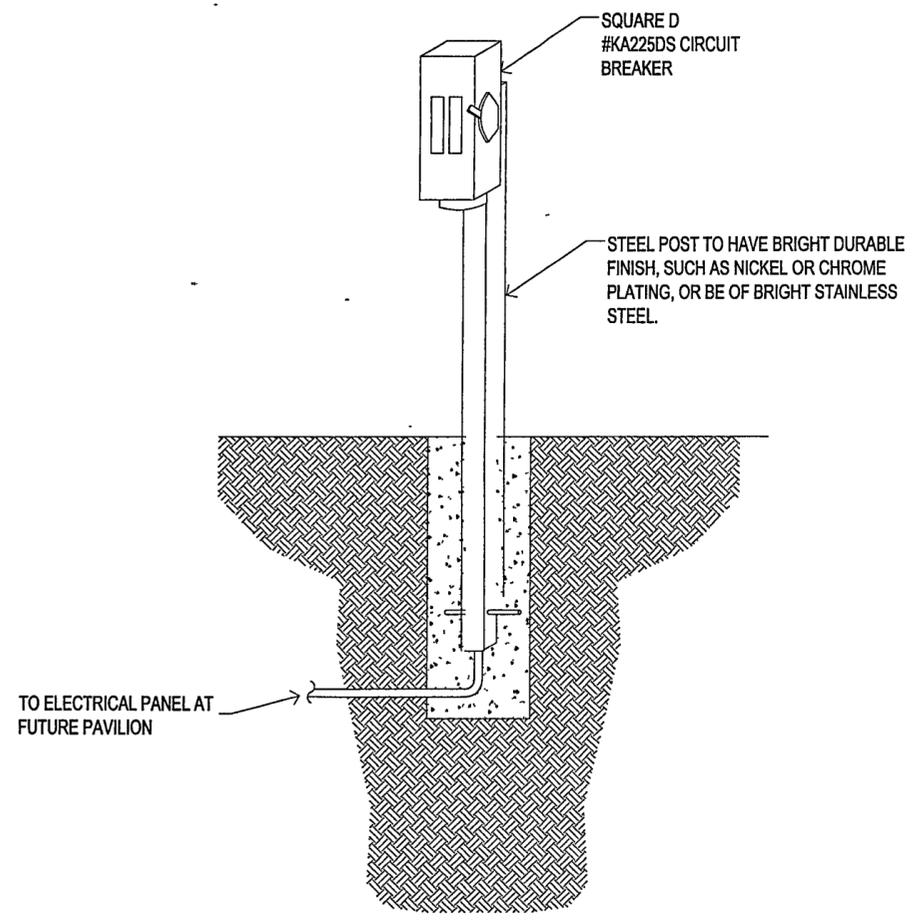
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
ELECTRICAL DETAILS

Sheet No.

E404

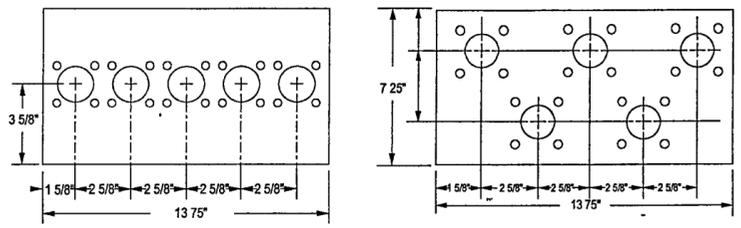
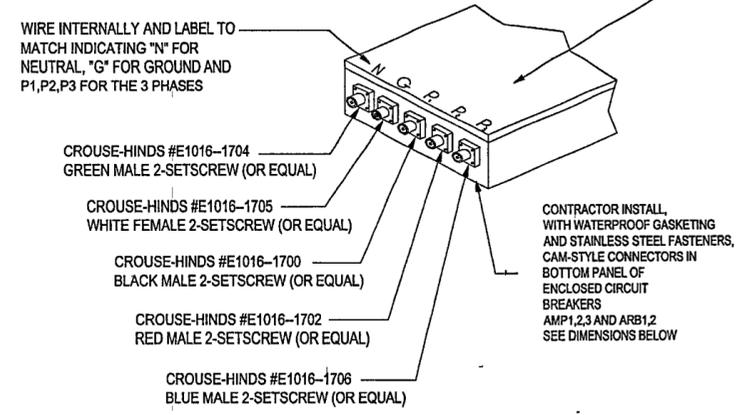


1 POWER IN-GRADE TYPICAL TO SCHOLARS' GARDEN
E404 | TS



2 POWER AT ARBORETUM
E404 | E404 NTS

TYPICAL DEPICTION OF LOWER END OF ENCLOSED CIRCUIT BREAKERS AMP1,2,3 AND ARB,1,2. SQUARED LA400DS



END-ON VIEW OF BOTTOM OF TYPICAL ENCLOSED CIRCUIT BREAKER SHOWING TWO EQUALLY ACCEPTABLE PATTERNS FOR HOLES USE STAINLESS STEEL FASTENERS 20 PLACES

3 CONTRACTOR INSTALLED CAM-LOCK CONNECTORS
E404 | E404 NTS

LITTLE ROCK, ARKANSAS

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320 West 13th Street
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212 607 7171

Landscape Architect



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617 661 0041

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Fourtan

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905 884 4176

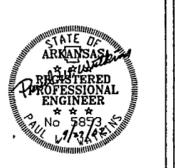
Playground Design

PLAY SITE ARCHITECTURE
7 Fenway Road
Acton, Massachusetts 01720
978.263.1090

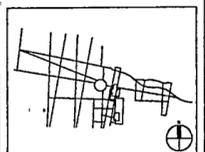
Signage Design

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Seal



O4	100% Site Package 2 CD	08/27/02
O3	90% Site Package 2 CD	08/16/02
O2	80% Site Package 2 CD	08/28/02
O1	100% Design Development	04/01/02
Issue		Date



Job No.

PPA 9908
HA-CP0101

Scale

Date

SEPTEMBER 27, 2002

Title
SITE PACKAGE 2
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PANEL SCHEDULES

Sheet No.

E501

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PANEL	LS1	TYPE	LINE 42 CKT NEMA 3R	LOCATION	EQUIPMENT YARD	MOUNT SURFACE				
MAIN	MLO	BUS	125A	VOLTS	480Y/277	PHASE 3				
4	WIRE	SN-EQUIP GND	POWERLINK G3 BUS-MASTER CONTROL TVSS18KA	INTERERRUPTING RATING	14000A					
CKT NO	POLE	A T	TYPE	LTS	REC	MISC	REMARKS	L1	L2	L3
1	1	15	G3 ECR	5			F1	1215		
2	1	15	G3 ECR	6				2200		
3	1	15	G3 ECR	7				1650		
4	1	15	G3 ECR	4			G4	2200		
5	1	15	G3 ECR	7			H 214	1925		
6	1	15	G3 ECR	4			G5	2200		
7	1	15	G3 ECR	4			G6	2200		
8	1	15	G3 ECR	40			H11-10	2200		
9	1	15	G3 ECR	4			G8	1100		
10	1	15	G3 ECR	25			E-211	1750		
11	1	15	G3 ECR	18			G9	1328		
12	1	15	G3 ECR	22			E1-7	1540		
13	1	15	G3 ECR	20			H11	1400		
14	1	15	G3 ECR	5			H4A1	1650		
15	1	15	G3 ECR	18			H	1328		
16	1	15	G3 ECR	12			K13	60		
17	1	15	G3 ECR	5			H4A1	1375		
18	1	15	G3 ECR	6			K1M2-5	1650		
19	1	15	G3 ECR	30			K2	2490		
20	1	15	G3 ECR	17			JK3-6	1190		
21	1	15	G3 ECR	24			K4	1925		
22	1	15	G3 ECR	18			JK5-6	1300		
23	1	15	G3 ECR	30			K5	2490		
24	1	15	G3 ECR	4			K7	200		
25	1	15	G3 ECR	4			K7	1650		
26	1	SPARE	G3 ECR	3						
27	1	SPARE	G3 ECR	3						
28	1	SPARE	G3 ECR	3						
29	1	SPARE	G3 ECR	3						
30	1	SPARE	G3 ECR	3						
31	1	SPARE	G3 ECR	3						
32	1	SPARE	G3 ECR	3						
33	1	SPARE	G3 ECR	3						
34	1	SPARE	G3 ECR	3						
35	1	SPARE	G3 ECR	3						
36	1	SPARE	G3 ECR	3						
37	1	SPARE	G3 ECR	3						
38	1	SPARE	G3 ECR	3						
39	1	SPARE	G3 ECR	3						
40	1	SPARE	G3 ECR	3						
41	1	SPARE	G3 ECR	3						
42	1	SPARE	G3 ECR	3						
PHASE TOTAL VA								16,955	13,840	13,613
TOTAL CONNECTED VA										44,408

PANEL	LS2	TYPE	LINE 42 CKT NEMA 3R	LOCATION	EQUIPMENT YARD	MOUNT SURFACE				
MAIN	MLO	BUS	125A	VOLTS	480Y/277	PHASE 3				
4	WIRE	SN-EQUIP GND	POWERLINK G3 BUS-SLAVE MOD-TVSS18KA	INTERERRUPTING RATING	14000A					
CKT NO	POLE	A T	TYPE	LTS	REC	MISC	REMARKS	L1	L2	L3
1	1	15	G3 ECR	15			E F 13	645		
2	1	15	G3 ECR	16			H 111	688		
3	1	15	G3 ECR	16			C-5 14	645		
4	1	15	G3 ECR	6			J K 11 15	350		
5	1	15	G3 ECR	16			H 214	645		
6	1	15	G3 ECR	1			H 12	1650		
7	1	15	G3 ECR	1			H 114	2475		
8	1	15	G3 ECR	1				1850		
9	1	15	G3 ECR	1				2475		
10	1	15	G3 ECR	1			H 116	1850		
11	1	15	G3 ECR	1			H 15	1850		
12	1	15	G3 ECR	1				1850		
13	1	15	G3 ECR	1				1850		
14	1	15	G3 ECR	1			J 13	1850		
15	1	15	G3 ECR	1			F 15	1650		
16	1	15	G3 ECR	1				1850		
17	1	15	G3 ECR	1				1650		
18	1	15	G3 ECR	1			H 16	1650		
19	1	15	G3 ECR	1			E 14	2475		
20	1	15	G3 ECR	1				1650		
21	1	15	G3 ECR	1				2475		
22	1	15	G3 ECR	22			H 14 20	648		
23	1	15	G3 ECR	22			H 14 20	648		
24	1	15	G3 ECR	21			F 13 2	603		
25	1	15	G3 ECR	20			E 18 3	685		
26	1	15	G3 ECR	18			A 17 22	774		
27	1	15	G3 ECR	1			H 12	1850		
28	1	SPARE								
29	1	SPARE								
30	1	SPARE								
31	1	SPARE								
32	1	SPARE								
33	1	SPARE								
34	1	SPARE								
35	1	SPARE								
36	1	SPARE								
37	1	SPARE								
38	1	SPARE								
39	1	SPARE								
40	1	SPARE								
41	1	SPARE								
42	1	SPARE								
PHASE TOTAL VA								14,517	13,491	12,394
TOTAL CONNECTED VA										40,402

PANEL	LS3	TYPE	LINE 42 CKT NEMA 3R	LOCATION	EQUIPMENT YARD	MOUNT SURFACE				
MAIN	MLO	BUS	125A	VOLTS	480Y/277	PHASE 3				
4	WIRE	SN-EQUIP GND	POWERLINK G3 BUS-SLAVE MOD-TVSS18KA	INTERERRUPTING RATING	14000A					
CKT NO	POLE	A T	TYPE	LTS	REC	MISC	REMARKS	L1	L2	L3
1	1	15	G3 ECR	8			K12	482		
2	1	15	G3 ECR	31			K 11	1333		
3	1	15	G3 ECR	8			H 16	482		
4	1	15	G3 ECR	7			G 3 16	490		
5	1	15	G3 ECR	8			G 8	442		
6	1	15	G3 ECR	8			G 3 16	883		
7	1	15	G3 ECR	8			A K 16 17	650		
8	1	15	G3 ECR	9			A K 16 17	650		
9	1	15	G3 ECR	9			A K 16 17	650		
10	1	15	G3 ECR	11			L 2	847		
11	1	15	G3 ECR	10				1650		
12	1	15	G3 ECR	10			D 8	833		
13	1	15	G3 ECR	4			A J 13 18	1320		
14	1	15	G3 ECR	8			L 7	654		
15	1	15	G3 ECR	5			A J 13 16	620		
16	1	15	G3 ECR	3			H	820		
17	1	15	G3 ECR	4			A J 13 10	685		
18	1	15	G3 ECR	3			J 2	1650		
19	1	15	G3 ECR	3				1650		
20	1	15	G3 ECR	3				1650		
21	1	15	G3 ECR	3				1650		
22	1	SPARE								
23	1	SPARE								
24	1	SPARE								
25	1	SPARE								
26	1	SPARE								
27	1	SPARE								
28	1	SPARE								
29	1	SPARE								
30	1	SPARE								

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Fountain

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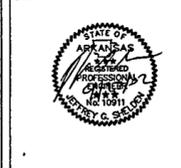
Playground Design

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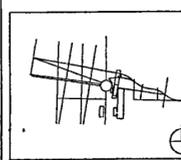
Signage Design

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212 676 1332

Seal



Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 80% Site Package 2 CD	06/29/02



Job No. 4813

Scale NONE

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Marine General Notes
and Abbreviations

Sheet No. MC001

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ABBREVIATIONS

- ACI = AMERICAN CONCRETE INSTITUTE
AISC = AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPROX = APPROXIMATE
ASTM = AMERICAN SOCIETY FOR TESTING MATERIALS
AWS = AMERICAN WELDING SOCIETY
BOTM = BOTTOM
CJ = CONSTRUCTION JOINT
CF = CUBIC FEET
CI = CAST IRON
CLR = CLEAR
CM = CORRUGATED METAL
CMP = CORRUGATED METAL PIPE
CONC = CONCRETE
COND = CONDUIT
CONST = CONSTRUCTION
CONT = CONTINUOUS
CORR = CORRUGATED
CTS = CENTERS
CY = CUBIC YARDS
DBL = DOUBLE
DEFL = DEFLECTION
DESC = DESCRIPTION
DET = DETAIL
DI = DUCTILE IRON
DISCONT = DISCONTINUOUS
E = EAST
EA = EACH
EL = ELEVATION
ELEV = ELEVATION
EQ = EQUAL
EW = EACH WAY
EXIST = EXISTING
EXP = EXPANSION
- FT = FEET
GALV = GALVANIZED
GRND = GROUND
HORIZ = HORIZONTAL
IN = INCHES
INFO = INFORMATION
INV = INVERT ELEVATION
JT = JOINT
L = ANGLE
LF = LINEAR FEET
LG = LONG
LT = LEFT
MAX = MAXIMUM
MH = MANHOLE
MHW = MEAN HIGH WATER
MIN = MINIMUM
MISC = MISCELLANEOUS
MLW = MEAN LOW WATER
MTD = MOUNTED
N = NORTH
N T S = NOT TO SCALE
NO = NUMBER
O C = ON CENTER
OUTBD = OUTBOARD
P/S = PRESTRESSED
PERF = PERFORATED
PL = PLATE
PLATF = PLATFORM
PSI = POUND PER SQUARE INCH
PVC = POLYVINYL CHLORIDE
QTY = QUANTITY
- RCP = REINFORCED CONCRETE PIPE
REQ'D = REQUIRED
RT = RIGHT
S = SOUTH
SCH = SCHEDULE
SHT = SHEET
SPA = SPACES
SQ = SQUARE
STA = STATION
T = TOP
T O C = TOP OF CAP
T O S = TOP OF SLAB
T O W = TOP OF WALL
TBR = TO BE REMOVED
TYP = TYPICAL
U/G = UNDERGROUND
UNON = UNLESS OTHERWISE NOTED
VERT = VERTICAL
W = WEST
W/ = WITH
WP = WORK POINT
WNF = WELDED WIRE FABRIC
" = SECONDS OR INCH
' = MINUTES OR FEET
* = ASTERISK
sq = SQUARE
= NUMBER OR POUNDS
& = AND
@ = AT
C = CENTERLINE
ø = DIAMETER OR PHASE
° = DEGREES
⊥ = PLATE

FOUNDATION

- STEEL H-PILES AND PIPE PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 75 TONS TIP ELEVATIONS INDICATED ON PLANS ARE FOR BIDDING PURPOSES ONLY USE A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED
- STEEL SHEET PILES SHALL CONSIST OF FULL INTERLOCKING SHEETS CONFORMING TO THE MATERIAL REQUIREMENTS OF ASTM A328
- STEEL SHEET PILING SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS INDICATED ON THE PLANS USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED
- KING PILES INDICATED ON PLANS ARE FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL PROBE SHEET PILE LINE AS OUTLINED BY SPECIFICATIONS TO TOP OF ROCK AND REPORT FINDINGS TO CONTRACTING AGENT CONTRACTING AGENT WILL THEN PROVIDE CONTRACTOR WITH REQUIRED QUANTITY AND LOCATIONS OF KING PILES
- PREJETTING OF BEARING PILES WILL NOT BE ALLOWED
- PREAUGERING OF BEARING PILES WILL BE ALLOWED, AS APPROVED BY CONTRACTING AGENT
- THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE SO AS NOT TO INTERFERE WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS
- MATERIALS
STEEL HP PILES, PIPE PILES, AND KING PILES. ASTM A36
STEEL SHEET PILES ASTM A328
MISCELLANEOUS SHAPES AND PLATES ASTM A36
NUTS, BOLTS, AND WASHERS. ASTM A325 / A490

SEDIMENT AND EROSION CONTROL

- SEE CIVIL DRAWINGS FOR SEDIMENT & EROSION CONTROL PLANS
- ALL TEMPORARY ITEMS SHALL BE REMOVED AT END OF CONSTRUCTION

DEMOLITION ITEMS

- ITEMS BEYOND THE SHORELINE (TIMBER PILES, DOLPHINS, POSTS, ETC) BE REMOVED TO THE MUDLINE OR TO THE DREDGE LINE AS REQUIRED
- CONTRACTOR TO PROBE AND/OR DIG TEST PITS AS REQUIRED TO DETERMINE TYPE AND EXTENTS OF ROCK ISLAND RAILROAD BRIDGE ABUTMENT AND REPORT FINDINGS TO CONTRACTING AGENT CONTRACTOR SHALL AWAIT APPROVAL BY CONTRACTING AGENT PRIOR TO PARTIAL DEMOLITION OF BRIDGE ABUTMENT OR CONSTRUCTION OF AMPHITHEATER WALL

UTILITIES

- EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROXIMATELY 16') AT ONE TIME COORDINATE ALL WORK WITH THE LITTLE ROCK WASTE WATER UTILITY

DESIGN CRITERIA

- GRAVITY LOADS
A. UNIFORMLY DISTRIBUTED LIVE LOAD. .100 PSF RIVER TERRACES, PEDESTRIAN BRIDGES
200 PSF BULKHEADS, RETAINING WALLS
B. TRUCK LOADS HS20-44 BULKHEADS, RETAINING WALLS
- DESIGN DREDGE DEPTH (NEW BULKHEADS) EL 228 0 NGVD

CONCRETE AND REINFORCING STEEL:

- MINIMUM 28 DAY CONCRETE STRENGTHS SHALL BE AS FOLLOWS
A. CAST-IN-PLACE CONCRETE 5,000 PSI
B. PRECAST CONCRETE - NON PRESTRESSED. 6,000 PSI
- CHAMFER ALL EXPOSED CORNERS WITH 1/2", 45° CHAMFER, UON
- ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED
- ALL CAST-IN-PLACE CONCRETE SHALL BE A NORMAL WEIGHT CONCRETE (145 PCF)
- ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315 AND ACI 301
- PROVIDE BROOM FINISH FOR ALL WALKING SURFACES, UON
- CONCRETE COVER FOR REINFORCEMENT, 2" CLR, UON
- ALL CONSTRUCTION JOINTS BETWEEN CAST-IN-PLACE CONCRETE SHALL BE BONDED WITH EPOXY BONDING AGENT AND BE CLEANED WITH A ROUGHENED SURFACE OF 1/4" AMPLITUDE
- LIFTING INSERTS SHALL BE PROVIDED IN ALL PRECAST MEMBERS TO FACILITATE LIFTING AND SUPPORTING MEMBERS DURING ERECTION PROVIDE ANY ADDITIONAL REINFORCING NECESSARY TO PREVENT CRACKS DURING HANDLING AND ERECTION
- REINFORCING ASTM A615, GRADE 60
- ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, UON
- CONSTRUCTION LOADS GREATER THAN 50% OF THE DESIGN LOAD FOR ANY PORTION OF THE STRUCTURE SHALL NOT BE IMPOSED UNTIL THE CONCRETE CYLINDER STRENGTH FOR THOSE MEMBERS AND CONNECTING POURS HAVE REACHED 80% OF THE 28 DAY CONCRETE STRENGTH
- ALL DIMENSIONS AND ANGLES ASSOCIATED WITH PRECAST MEMBERS SHALL BE FIELD VERIFIED PRIOR TO PRECAST FABRICATION

STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
- ALL WELDING SHALL CONFORM TO AWS D 1.1
- MATERIAL SHALL CONFORM TO THE FOLLOWING, UON
A. MACHINE BOLTS ASTM A325, GALV
B. STEEL SHAPES ASTM A36, GALV
C. STEEL PLATES ASTM A36, GALV
D. TIE RODS. ASTM A36, GALV
E. ADHESIVE ANCHORS, STAINLESS STEEL ASTM A593
- ALL STEEL SHAPES, PLATES, OTHER FABRICATIONS, AND ALL HARDWARE SHALL BE ZINC-COATED OR GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND / OR A153, AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED
- FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF ASTM A780 IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT

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Fountain

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CANADA
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Playground Design

PLAY SITE ARCHITECTURE
7 Fairway Road
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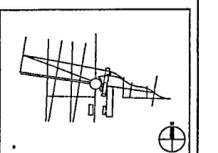
Signage Design

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Seal



04	100% Site Package 2 CD	09/27/02
03	90% Site Package 2 CD	08/16/02
02	80% Site Package 2 CD	08/29/02
01	100% Design Development	04/10/02
	Issue	Date



Job No. 4913

Scale 1" = 20'-0"

Date SEPTEMBER 27, 2002

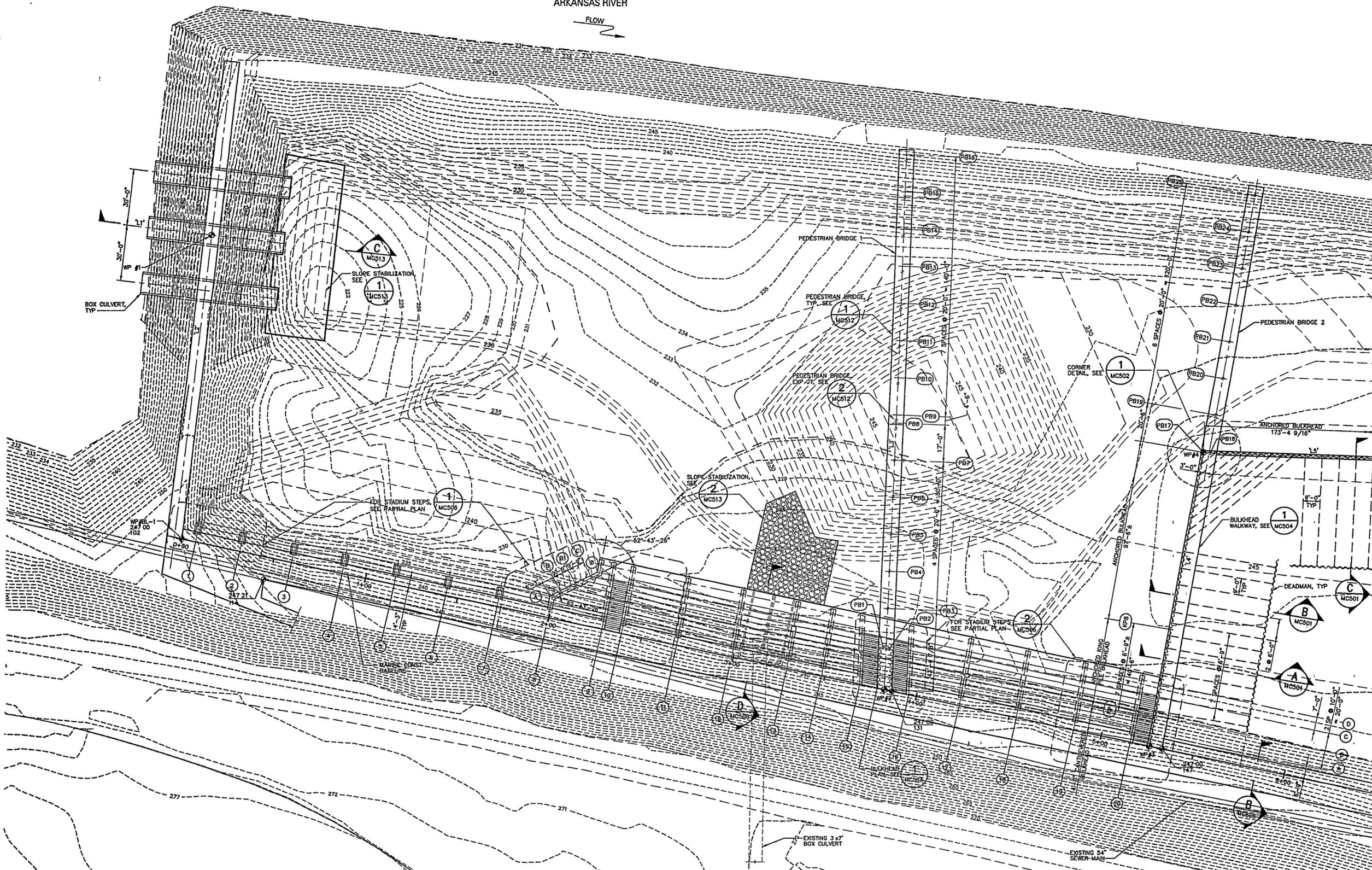
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Marne Edge Site Plan
Sheet 1 of 2

Sheet No.

MC101

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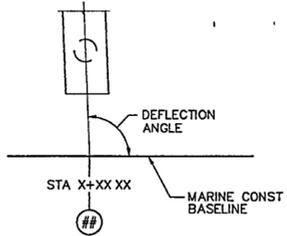
ARKANSAS RIVER



WP No.	NORTHING	EASTING
BL-1	150964.62	1233538.08
1	151128.18	1233553.24
2	150883.87	1233911.77
3	150853.46	1234052.51
4	151011.54	1234080.37

DESC	BEARING	LENGTH	RADIUS
L1	S83°-18'-31"E	-	-
L2	N6°-41'-29"E	257.30'	-
L3	N02°-14'-40"W	305.00'	-
L4	N09°-59'-40"E	160.52'	-
L5	S87°-45'-20"E	173.38'	-

BEAM No.	STATION	DEFL ANGLE	BEAM No.	STATION	DEFL ANGLE
1	0+07.58	92°-11'-55"	11	2+63.09	92°-11'-55"
2	0+31.52	92°-11'-55"	12	2+92.42	92°-11'-55"
3	0+59.18	92°-11'-55"	13	3+21.74	92°-11'-55"
4	0+87.52	92°-11'-55"	14	3+40.28	99°-57'-17"
5	1+15.52	92°-11'-55"	15	3+60.54	99°-57'-17"
6	1+40.29	92°-11'-55"	16	3+86.84	92°-11'-55"
7	1+67.65	92°-11'-55"	17	4+13.50	92°-11'-55"
8	1+95.02	92°-11'-55"	18	4+43.80	92°-11'-55"
9	2+23.50	92°-11'-55"	19	4+74.11	92°-11'-55"
10	2+33.77	92°-11'-55"	20	5+04.41	92°-11'-55"



- NOTES
- SEE SHEET MC517 FOR PILE SCHEDULE
 - SEE PILE SCHEDULE FOR INDICATOR PILE LOCATIONS

1" = 20'-0" 0 10 20 40 FT

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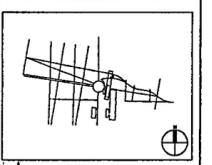
Fountain
DAN ELSER WATERARCHITECTURE INC.
58 Mackenzie Drive West
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905 884.4178

Playground Design
PLAY SITE ARCHITECTURE
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978 263 1030

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212 675 1332



04 100% Site Package 2 CD	09/27/02
03 80% Site Package 2 CD	09/16/02
02 60% Site Package 2 CD	08/29/02
01 100% Design Development	04/01/02
Issue	Date



Job No. 4813

Scale 1" = 20'-0"

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Marine Edge Site Plan
Sheet 2 of 2

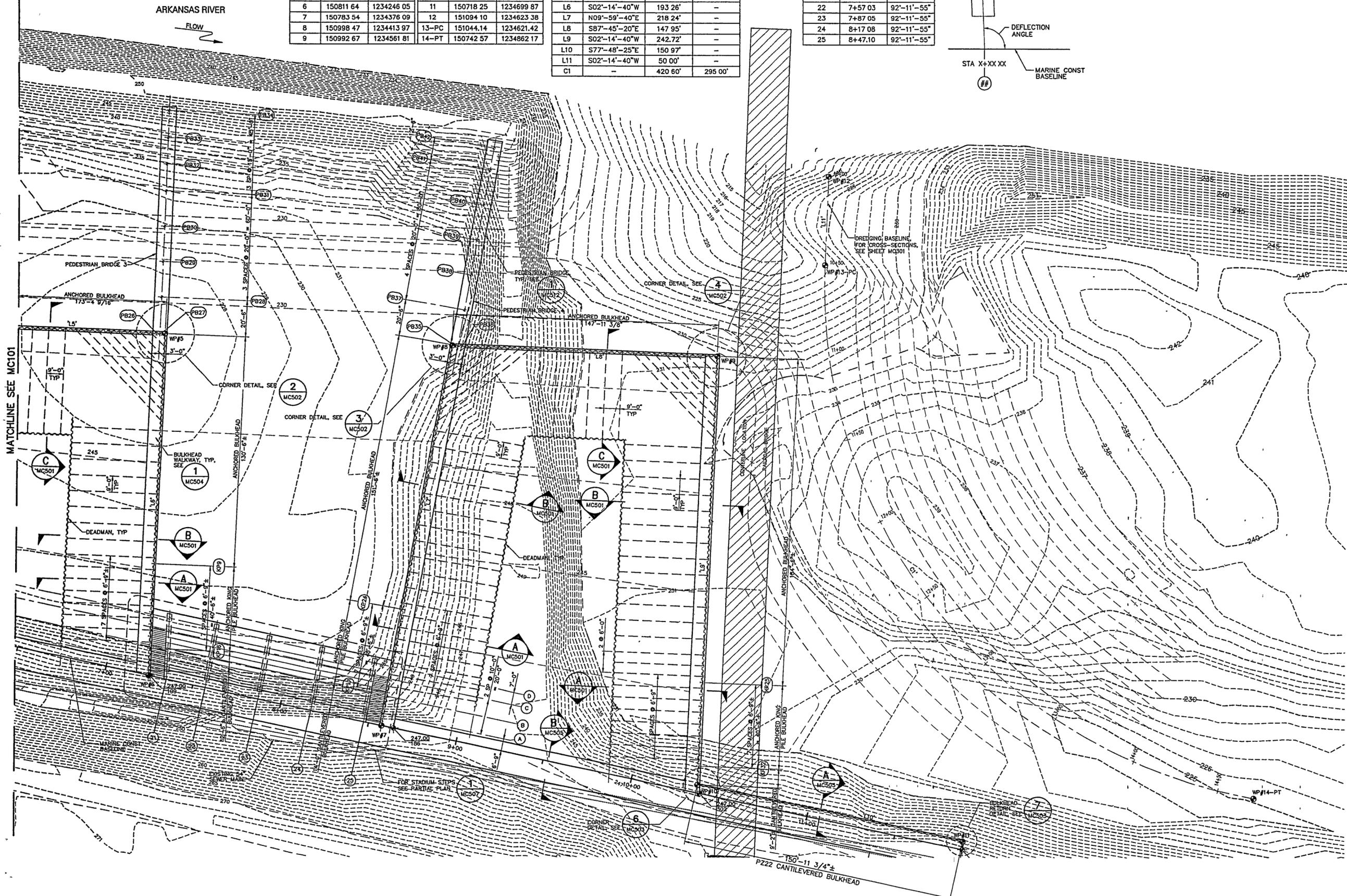
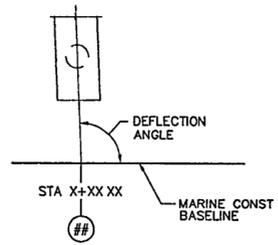
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WORK POINT TABLE					
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6	150811.64	1234246.05	11	150718.25	1234699.87
7	150783.54	1234376.09	12	151094.10	1234623.38
8	150998.47	1234413.97	13-PC	151044.14	1234621.42
9	150992.67	1234561.81	14-PT	150742.57	1234862.17

LINE & CURVE TABLE			
DESC	BEARING	LENGTH	RADIUS
L5	S87°-45'-20"E	173.38'	-
L6	S02°-14'-40"W	193.26'	-
L7	N09°-59'-40"E	218.24'	-
L8	S87°-45'-20"E	147.95'	-
L9	S02°-14'-40"W	242.72'	-
L10	S77°-48'-25"E	150.97'	-
L11	S02°-14'-40"W	50.00'	-
C1	-	420.60'	295.00'

RAKER BEAM TABLE		
BEAM No.	STATION	DEFL. ANGLE
21	7+34.72	99°-57'-11"
22	7+57.03	92°-11'-55"
23	7+87.05	92°-11'-55"
24	8+17.08	92°-11'-55"
25	8+47.10	92°-11'-55"



1" = 20'-0" 0 10 20 40 FT

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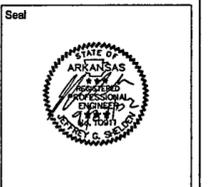
Electrical Engineer
CROMWELL ARCHITECTS ENGINEERS
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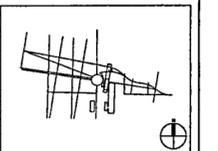
Fountain
DAN EUSER WATERARCHITECTURE INC
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Playground Design
PLAY SITE ARCHITECTURE
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Signage Design
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CD	Issue	Date
03	100% Site Package 2 CD	09/27/02
02	90% Site Package 2 CD	08/16/02
01	60% Site Package 2 CD	08/29/02
	Issue	Date



Job No. 4813

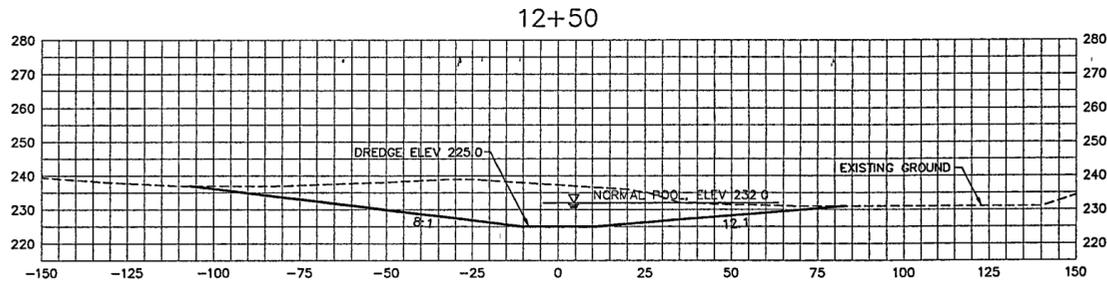
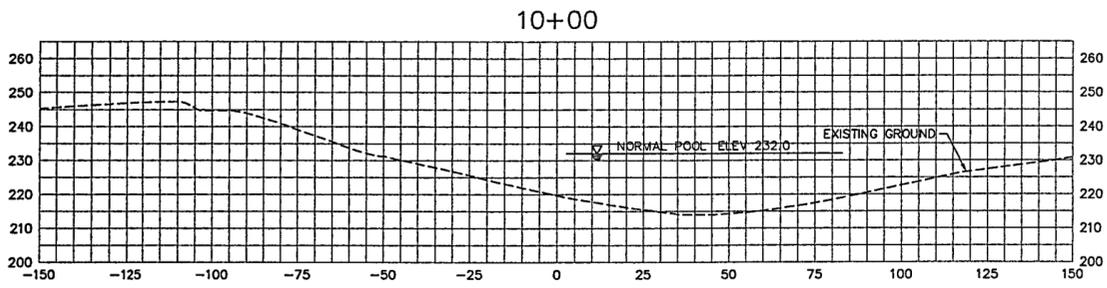
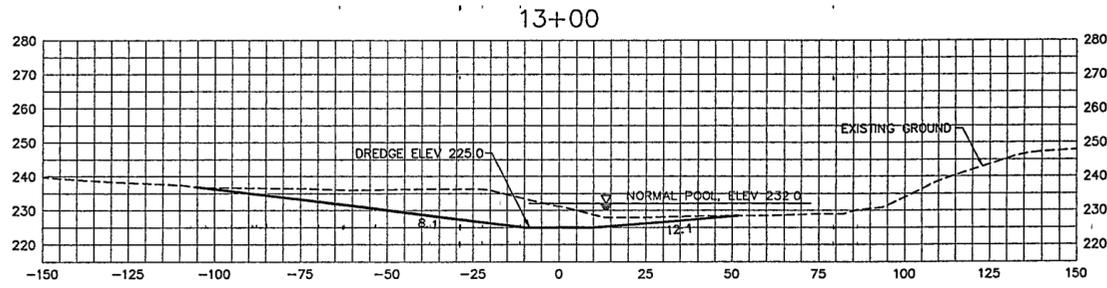
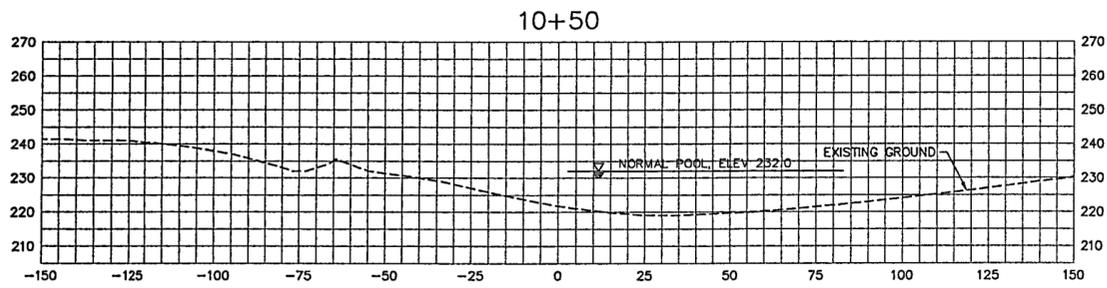
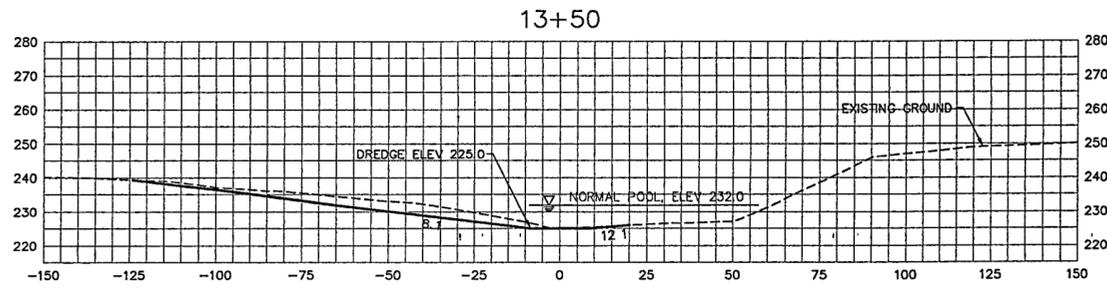
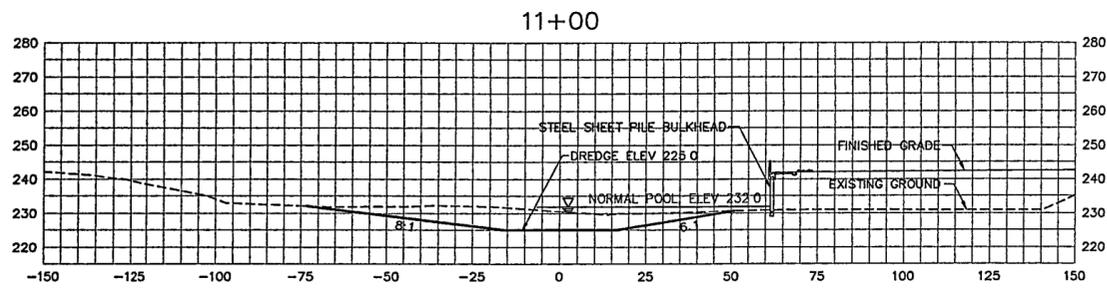
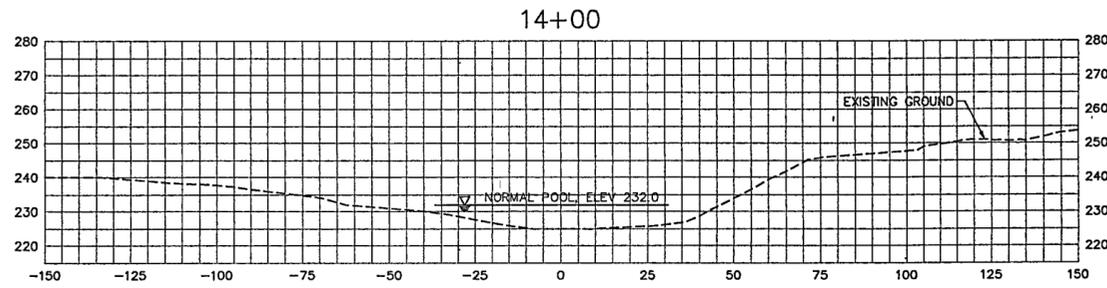
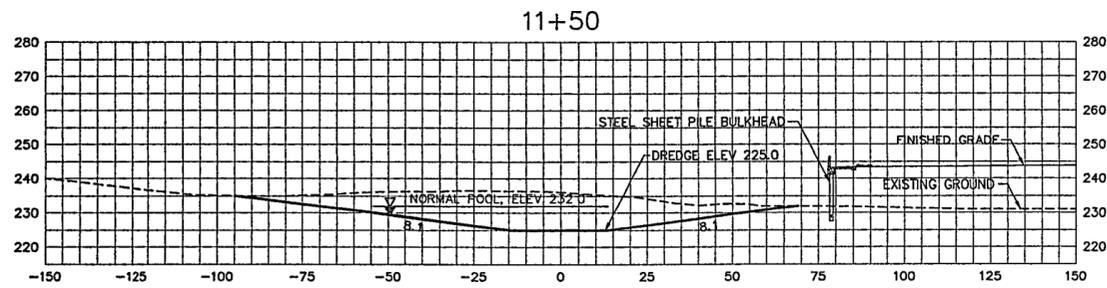
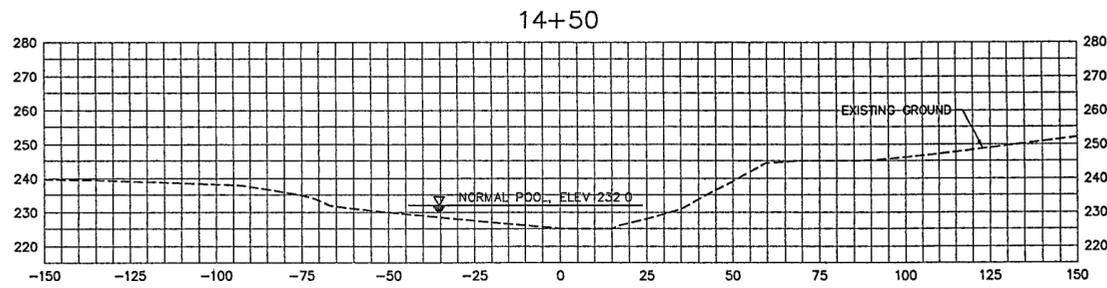
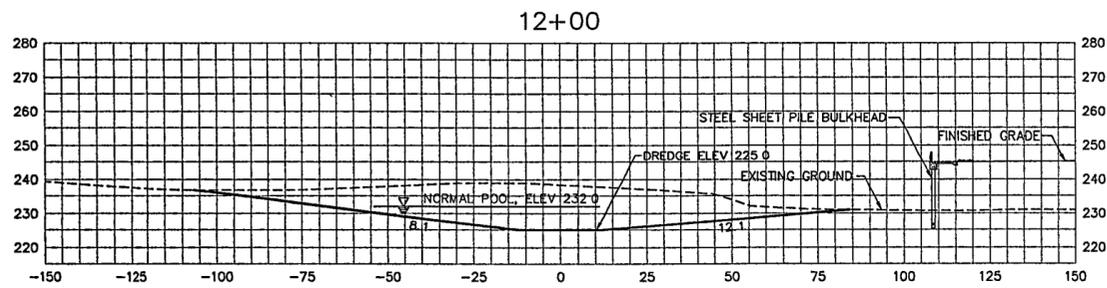
Scale 1" = 20'-0"

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Marine Dredge
Cross Sections

Sheet No. MC301

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NOTES:

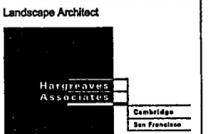
- 1 SECTIONS CUT LOOKING AHEAD STATION.
- 2 SECTIONS CUT RADIAL TO CURVE
- 3 DREDGE QUANTITY FOR BIDDING = 9399 0 CY

12

**WILLIAM J. CLINTON
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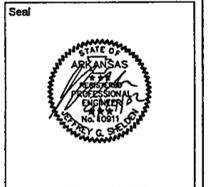
Electrical Engineer
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501 372 2900

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1618 East Millbrook Road, Suite 160
Raleigh, North Carolina 27609
919 761 4626

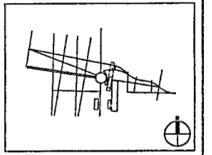
Fountain
DAN EUSER WATERARCHITECTURE INC.
58 Mackay Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
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Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 80% Site Package 2 CD	06/29/02



Job No 4813

Scale AS SHOWN

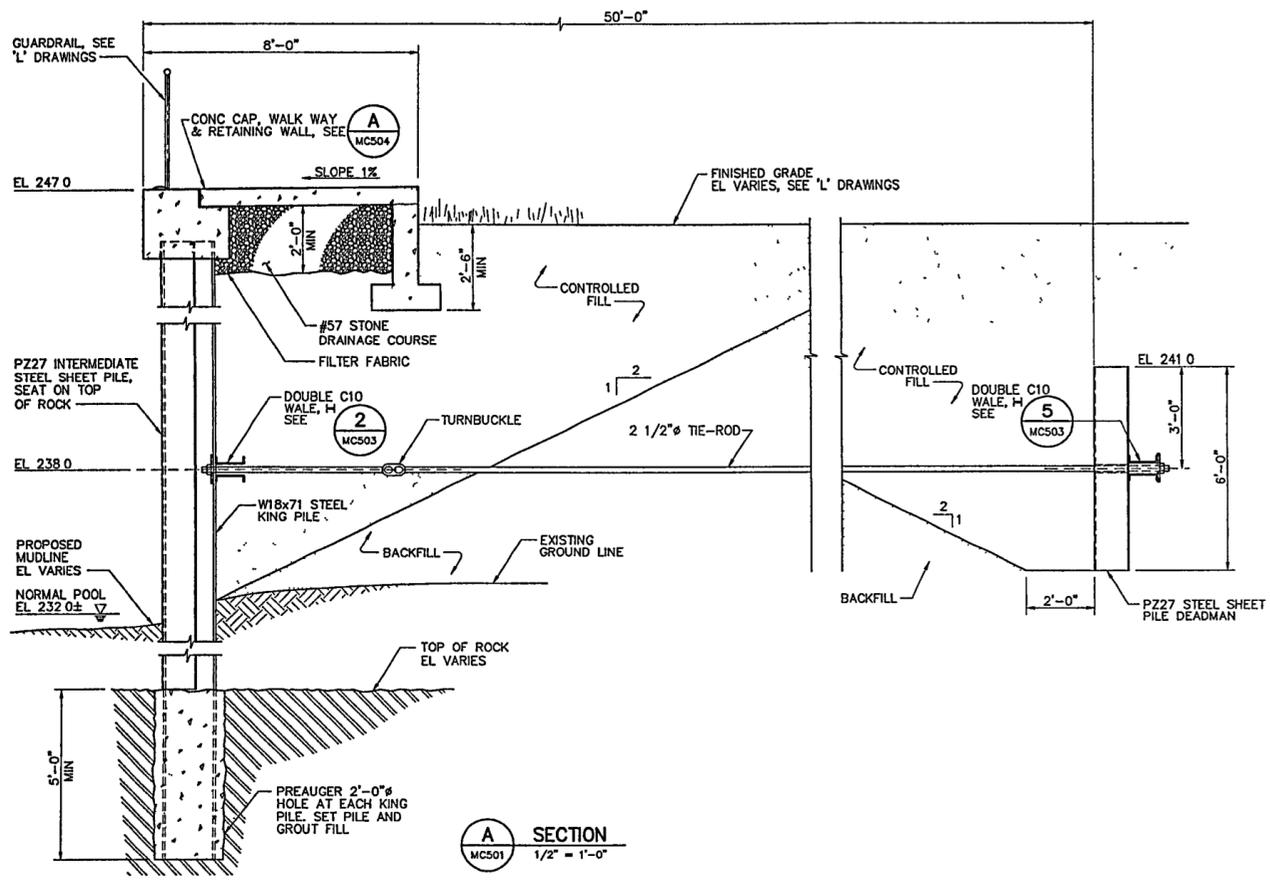
Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS

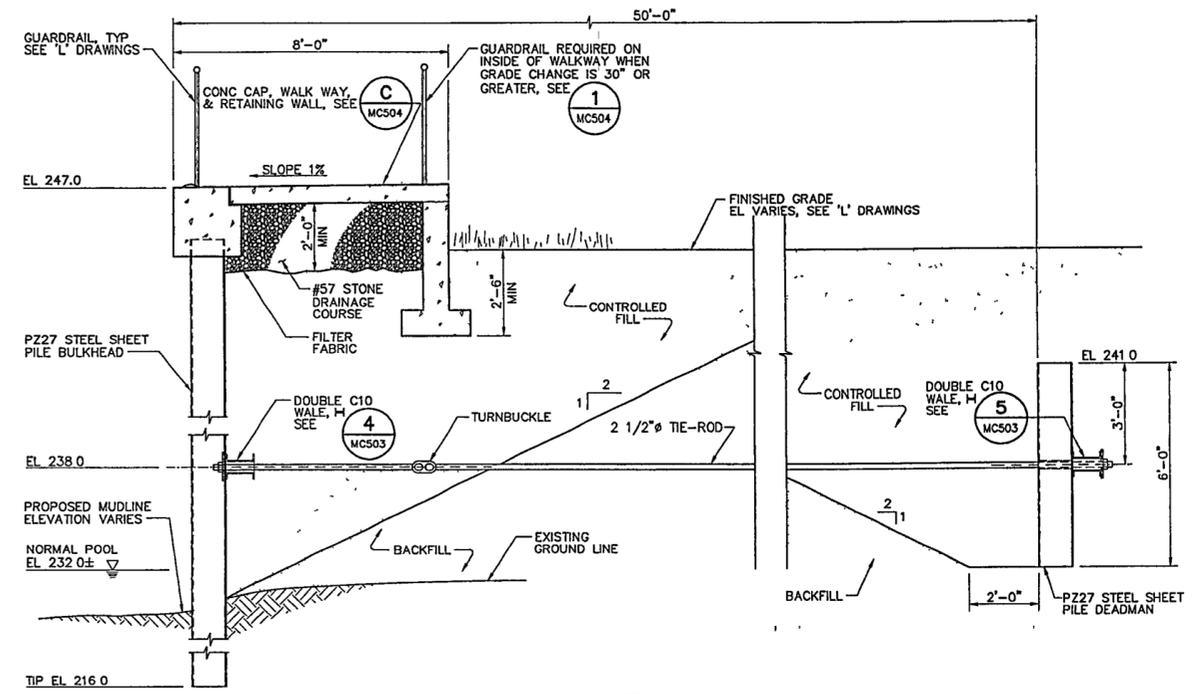
Bulkhead Typical Sections
Sheet No

MC501

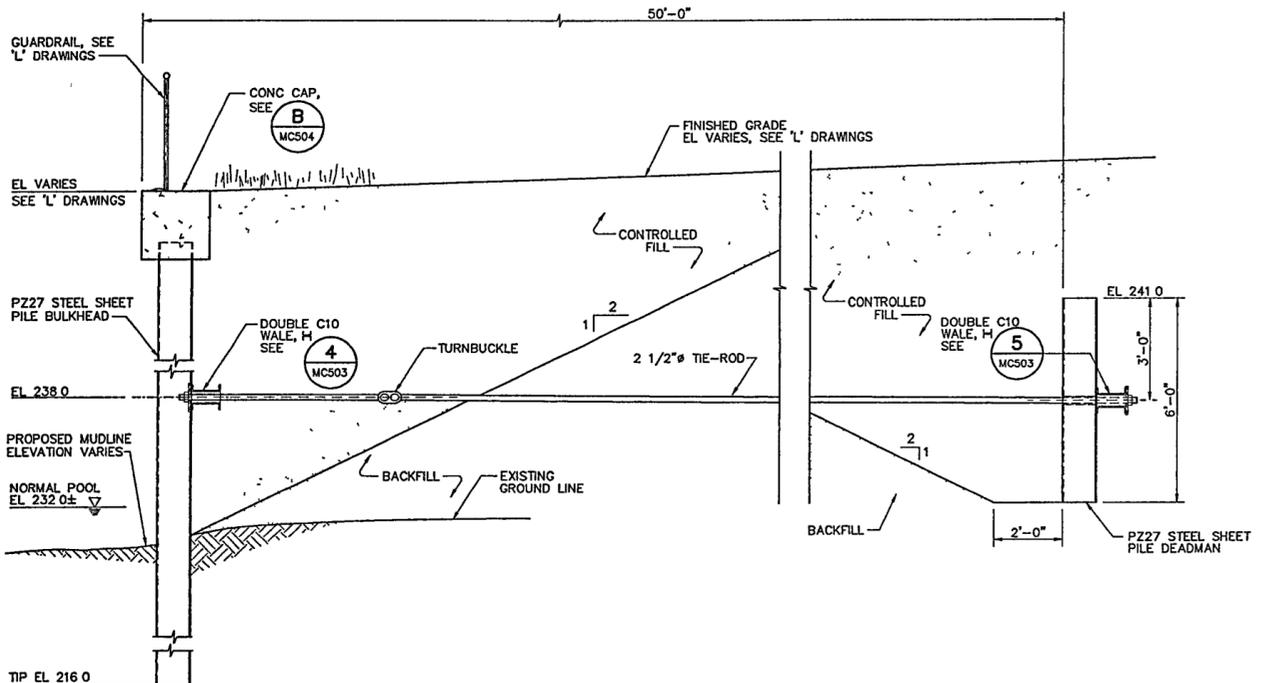
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A SECTION
MC501 1/2" = 1'-0"



B SECTION
MC501 1/2" = 1'-0"



C SECTION
MC501 1/2" = 1'-0"

- NOTES:**
- 1 SELECT STRUCTURAL FILL SHALL BE PROVIDED TO A DEPTH OF 2 FEET BELOW WALE FOR A DISTANCE OF 5 FEET AND EXTEND TO FINISHED GRADE AT 2:1 SLOPE.
 - 2 REFER TO 'L' DRAWINGS FOR GUARDRAIL LAYOUT AND POST SPACING.

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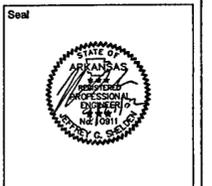
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919 781 4628

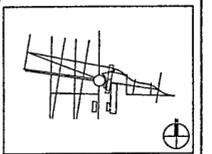
Fountain
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Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/29/02



Job No. 4813

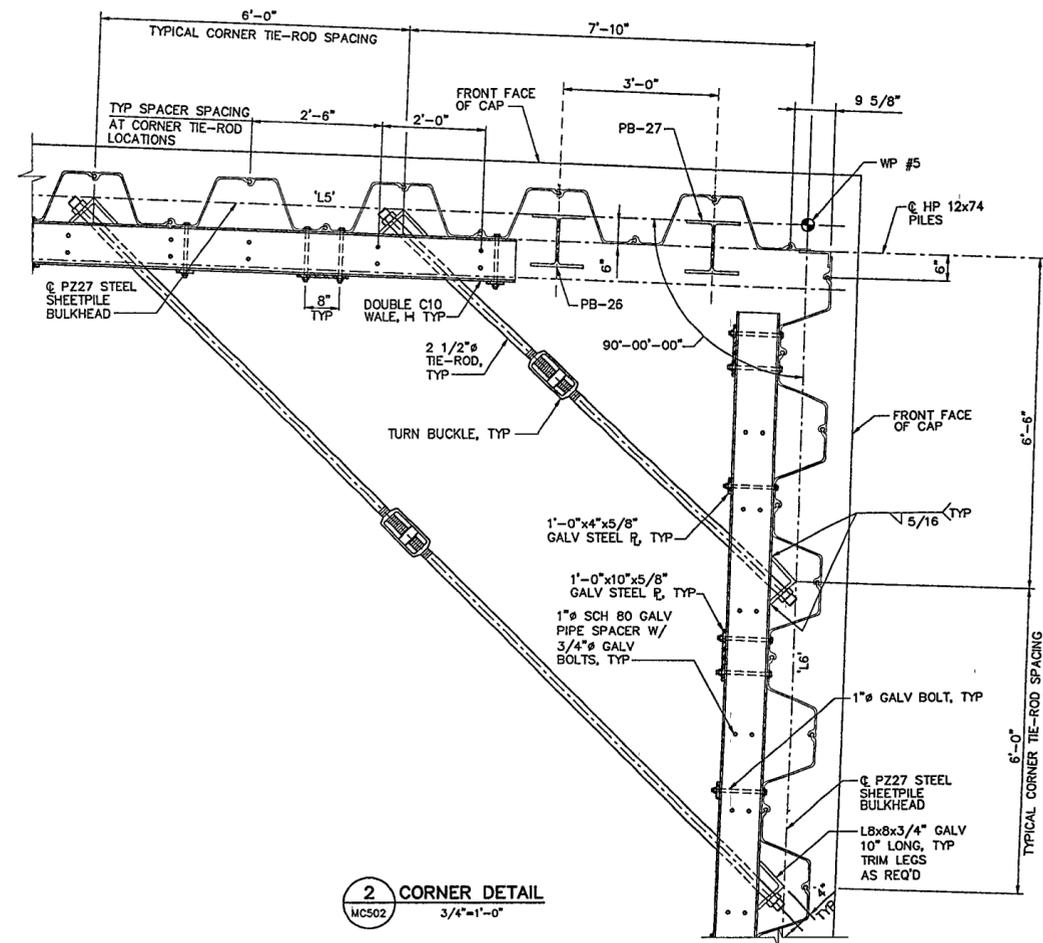
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Date SEPTEMBER 27, 2002

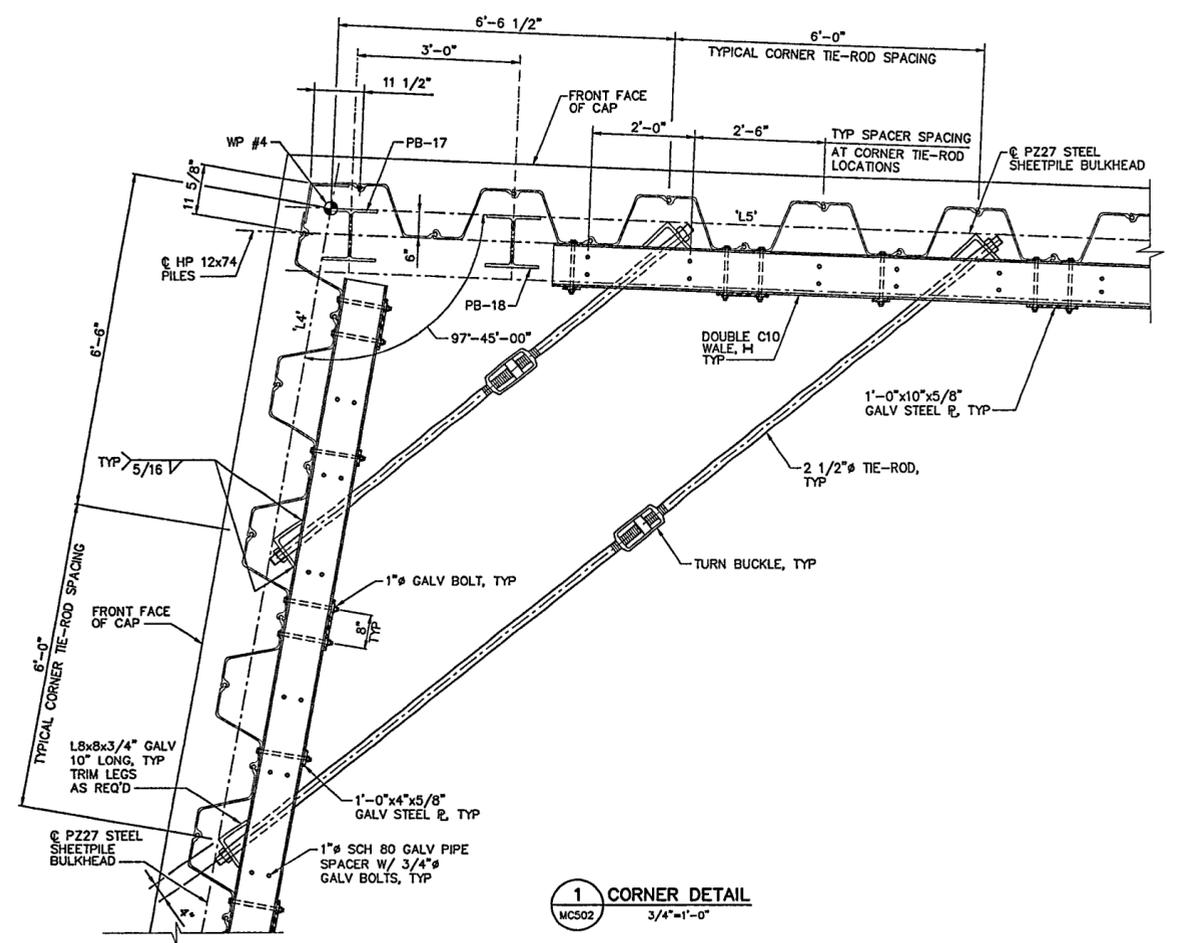
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Bulkhead Details

Sheet 1 of 2

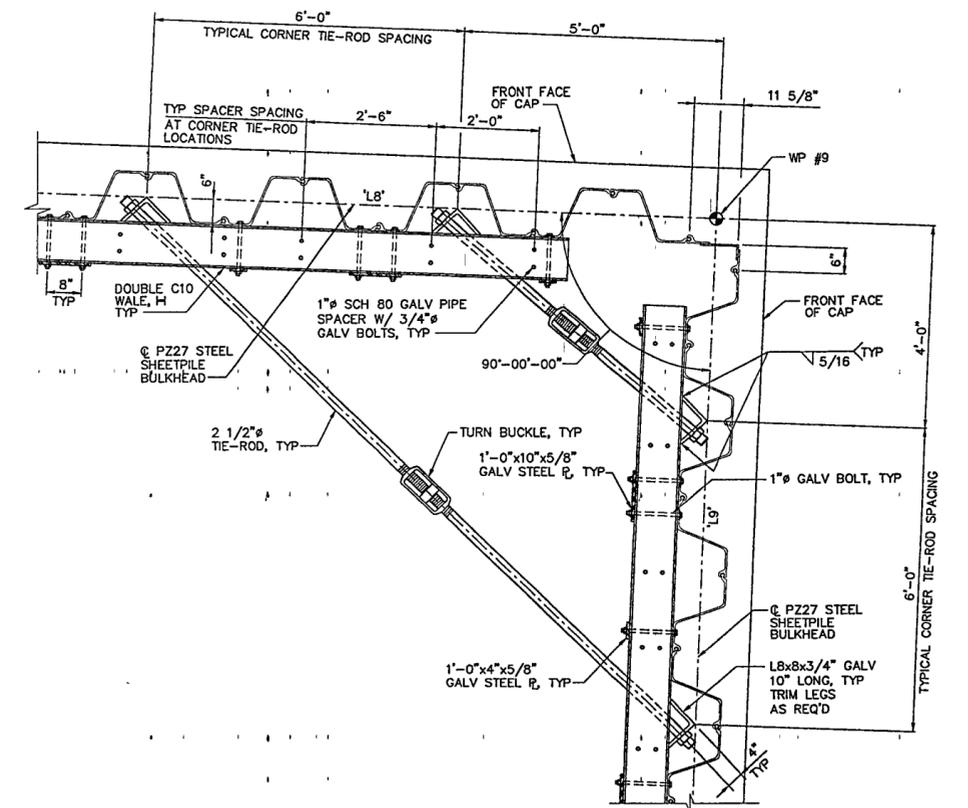
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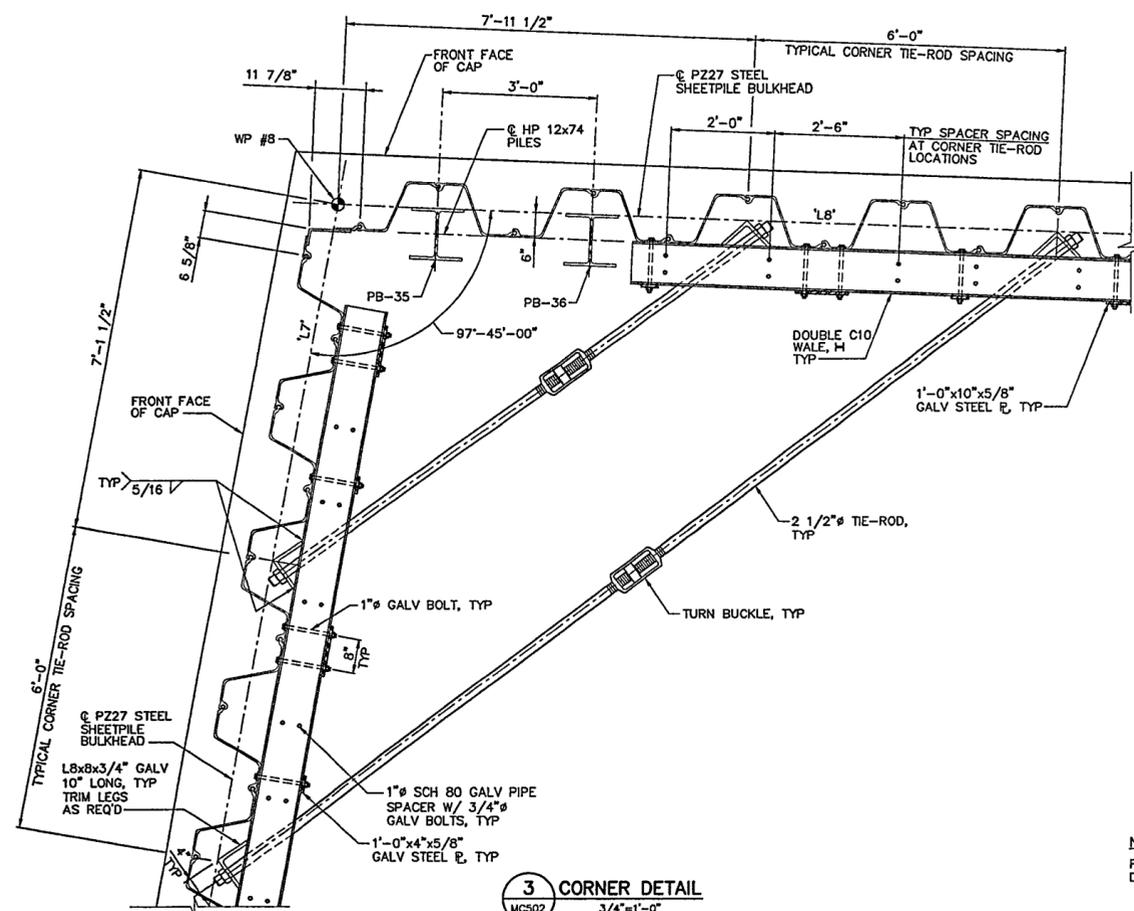
2 CORNER DETAIL
MCS02 3/4"=1'-0"



1 CORNER DETAIL
MCS02 3/4"=1'-0"

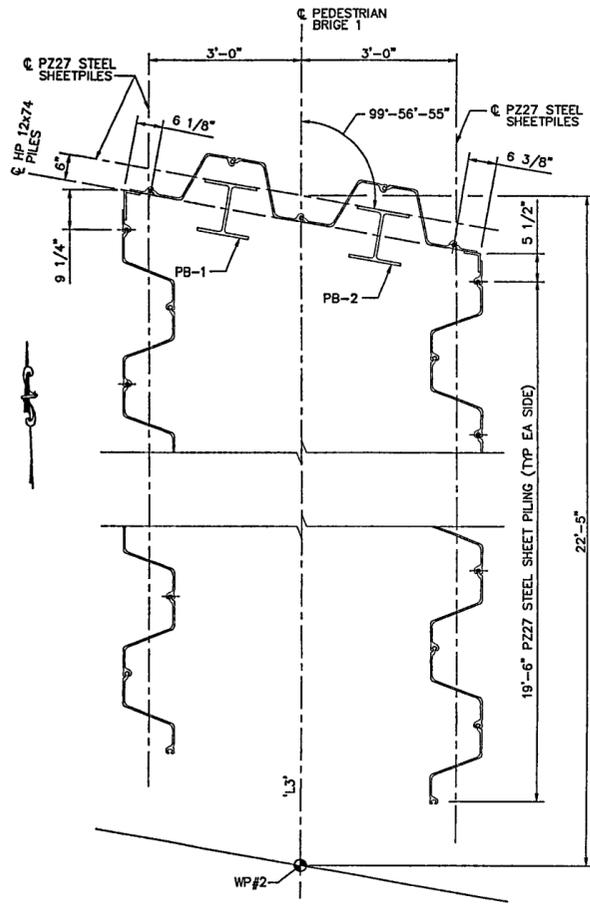


4 CORNER DETAIL
MCS02 3/4"=1'-0"

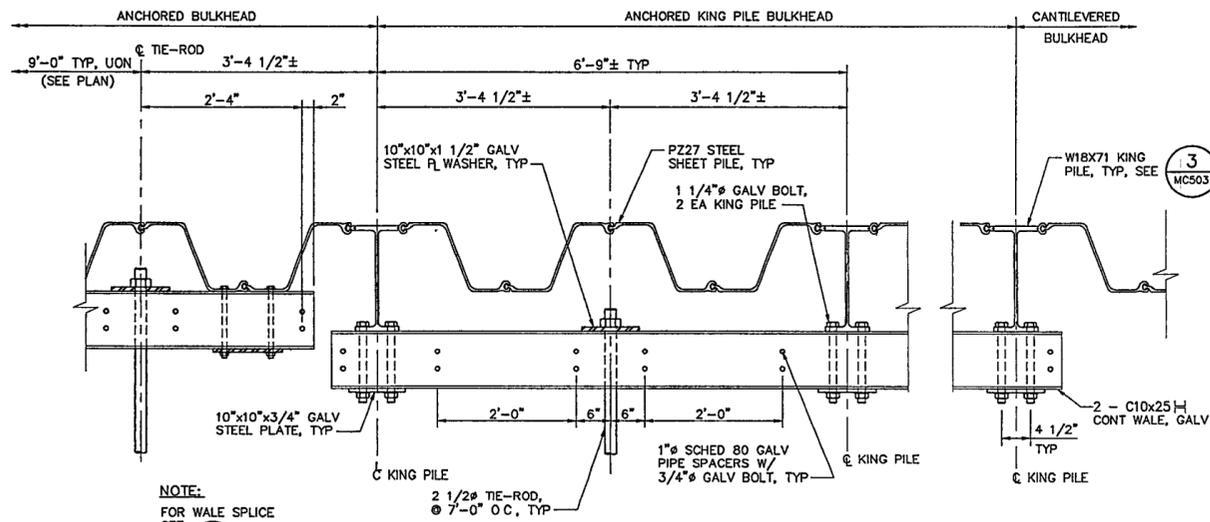


3 CORNER DETAIL
MCS02 3/4"=1'-0"

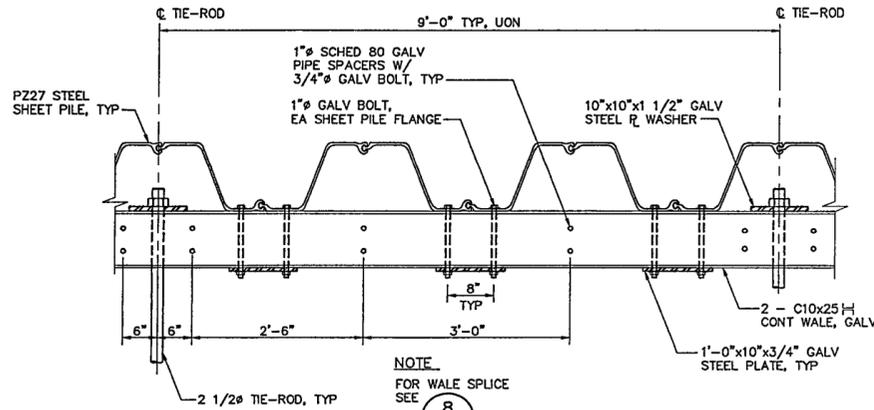
NOTE:
FOR WALE SPLICE
DETAIL, SEE
8
MCS03



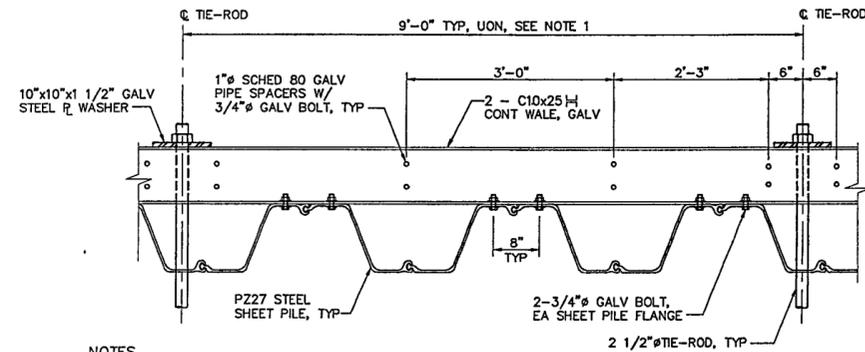
1 BULKHEAD PEDESTRIAN BRIDGE 1 PLAN
 3/4" = 1'-0"
 MC503



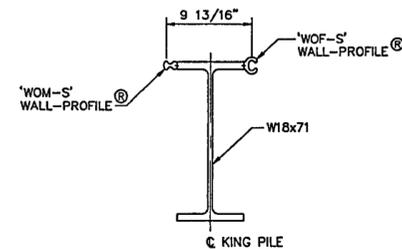
2 ANCHORED KING PILE BULKHEAD WALE DETAIL
 1" = 1'-0"
 MC503



4 ANCHORED BULKHEAD WALE DETAIL
 1" = 1'-0"
 MC503



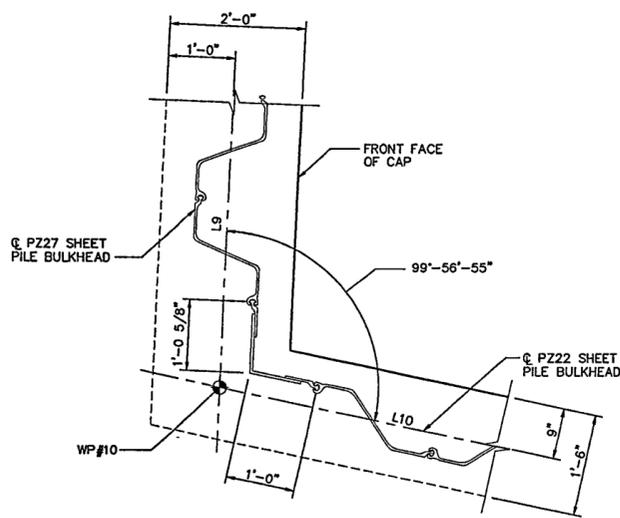
5 DEADMAN WALE DETAIL
 1" = 1'-0"
 MC503



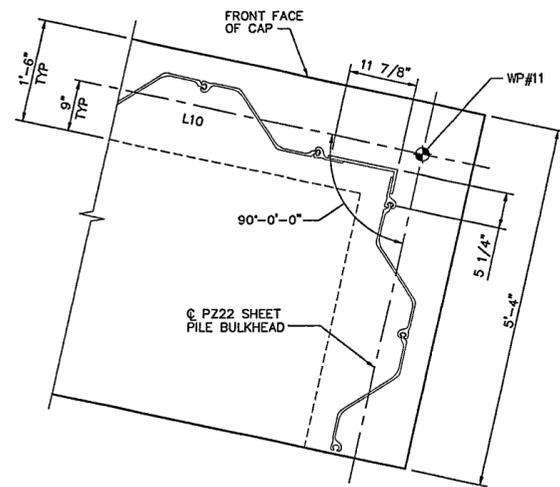
3 KING PILE DETAIL
 1 1/2" = 1'-0"
 MC503

NOTES

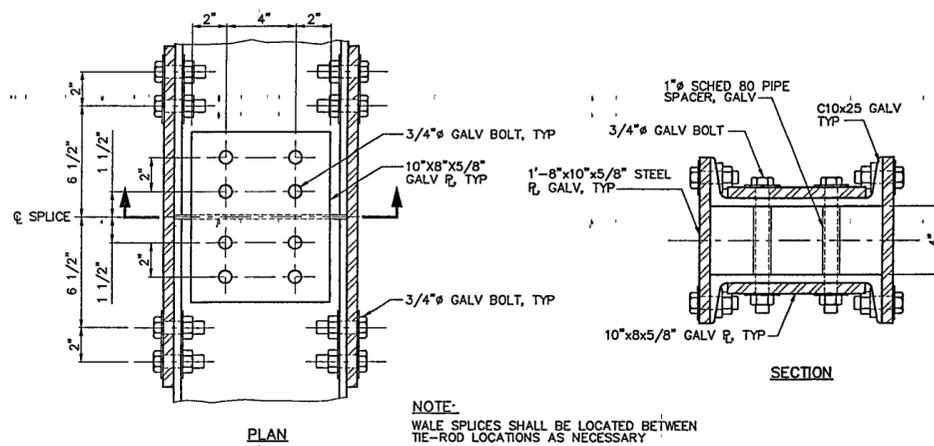
- WELD KING PILE BALL & SOCKET ATTACHMENTS PER MANUFACTURER'S RECOMMENDATIONS
- IF KING PILE IS PRODUCED WITH APPROVED EQUIVALENT BALL & SOCKET ATTACHMENTS, THE 6'-9"± DIMENSION BETWEEN KING PILES SHALL BE MAINTAINED THE W-SHAPE SHALL HAVE A MINIMUM SECTION MODULUS OF 127in³ AND A MINIMUM DEPTH OF 14 in
- 'WOM-S' AND 'WOF-S' WALL-PROFILES® ARE AS SUPPLIED BY PILEPRO LLC OR APPROVED EQUAL
- SEE SHEET MC517 FOR PILE SCHEDULE



6 CORNER DETAIL
 1" = 1'-0"
 MC503



7 BULKHEAD RETURN DETAIL
 1" = 1'-0"
 MC503



8 WALE SPLICE DETAIL
 3" = 1'-0"
 MC503

NOTE:
 WALE SPLICES SHALL BE LOCATED BETWEEN TIE-ROD LOCATIONS AS NECESSARY

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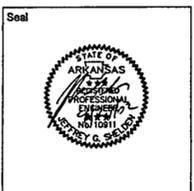
Electrical Engineer
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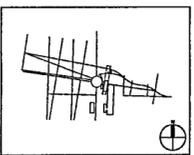
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Issue	Date
D3 100% Site Package 2 CD	09/27/02
D2 90% Site Package 2 CD	08/18/02
D1 60% Site Package 2 CD	06/29/02



Job No 4813

Scale AS SHOWN

Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2**
 100% CONSTRUCTION DOCUMENTS
 Bulkhead Details
 Sheet 2 of 2

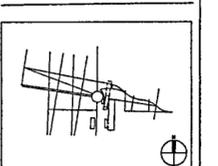
Sheet No.

MC503

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Issue	Date
03	100% Site Package 2 CD 09/27/02
02	90% Site Package 2 CD 08/16/02
01	60% Site Package 2 CD 06/29/02



Job No. 4813

Scale AS SHOWN

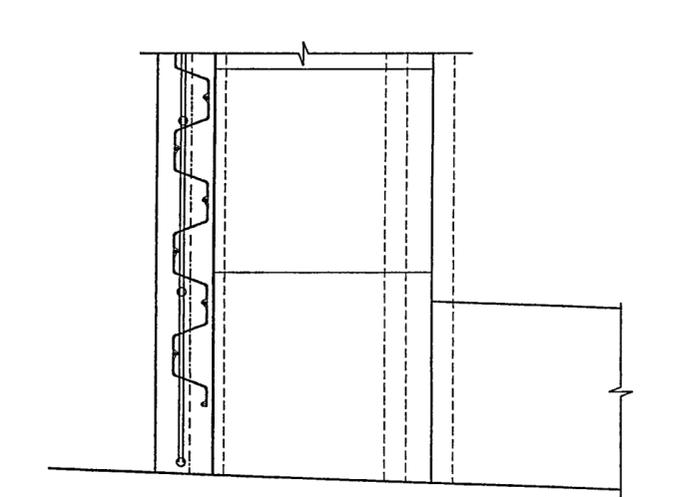
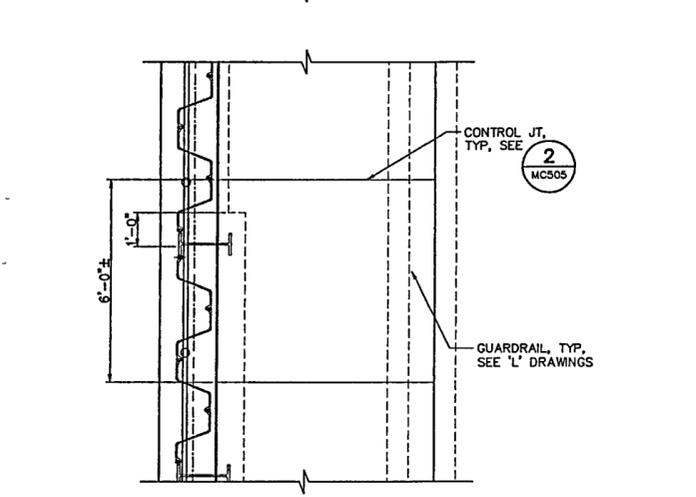
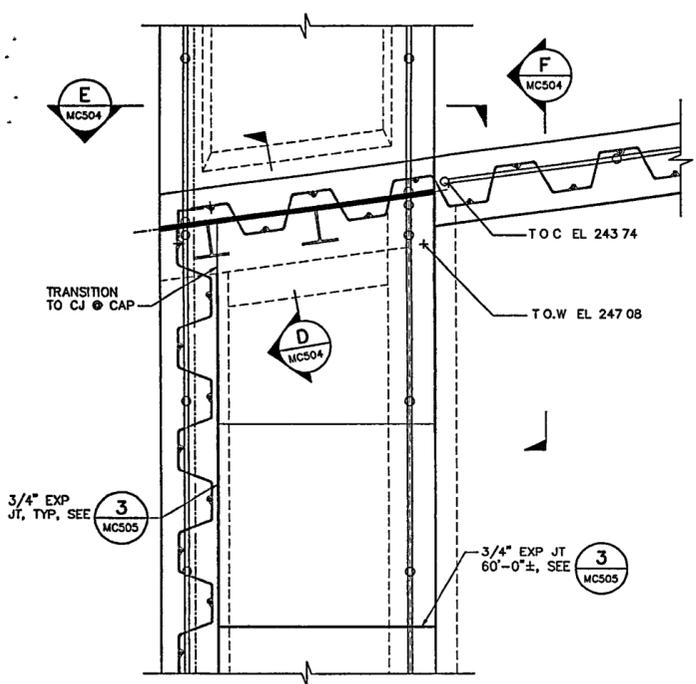
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Bulkhead Cap &
Walkway Details

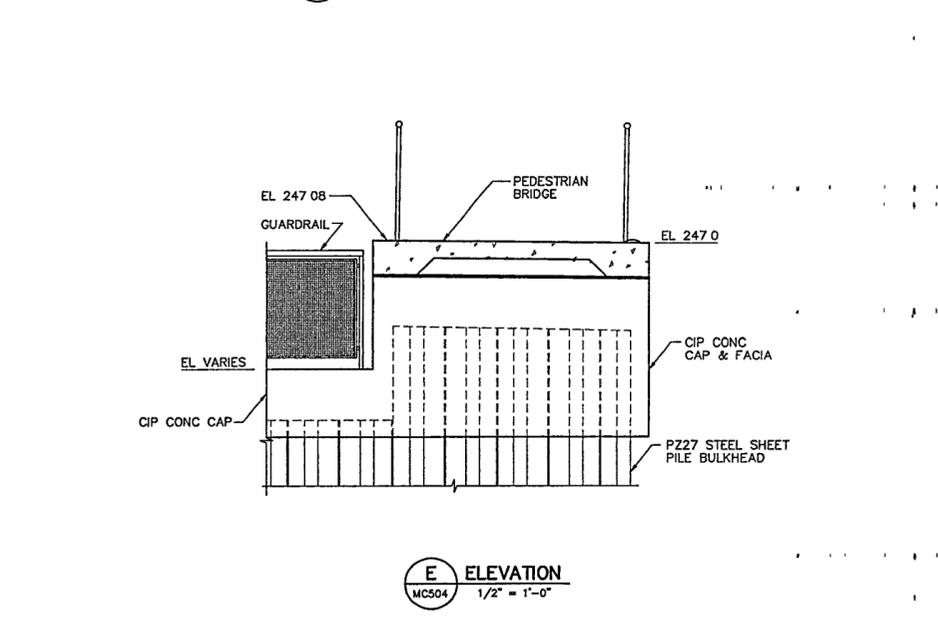
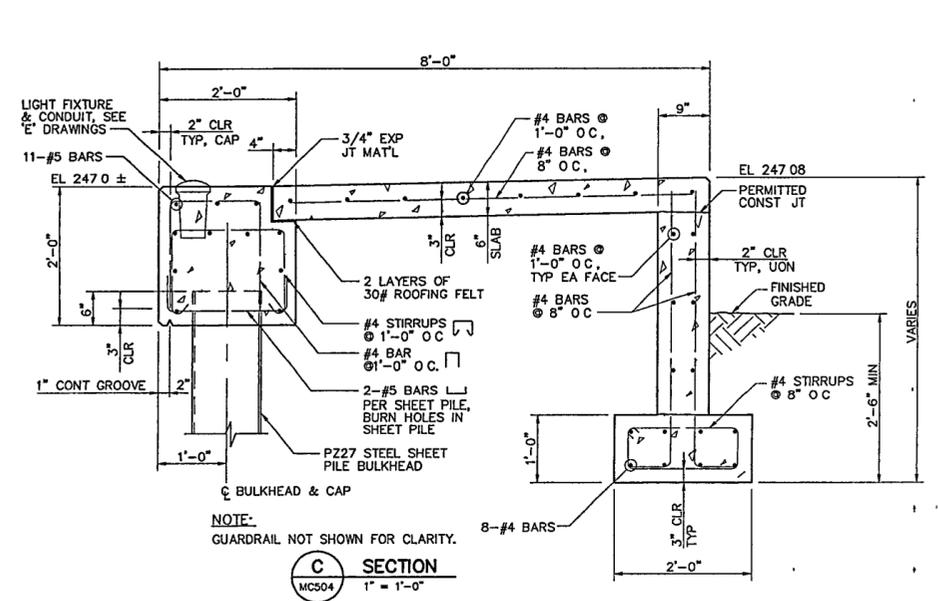
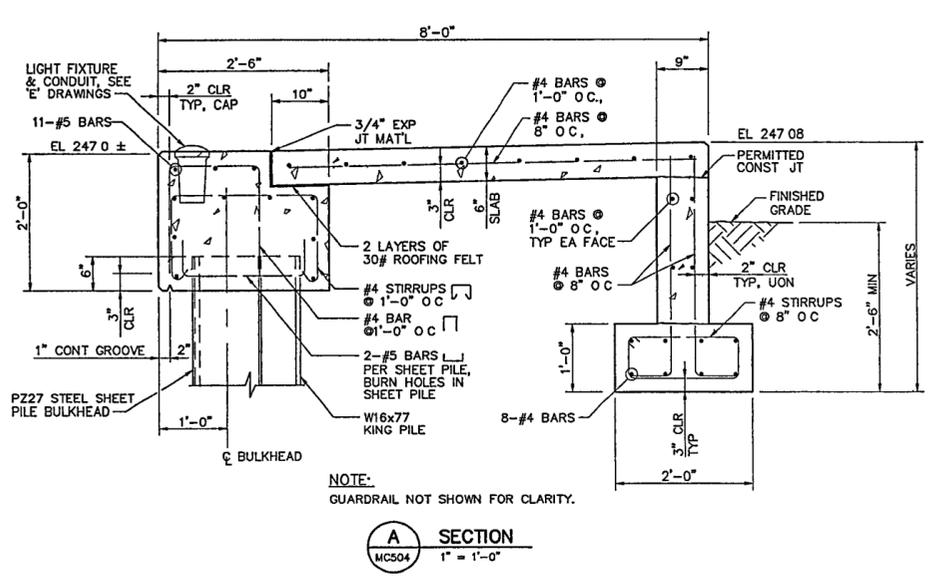
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MC504

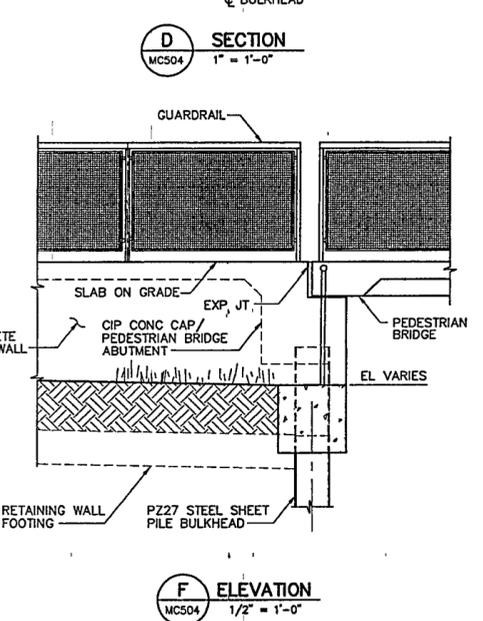
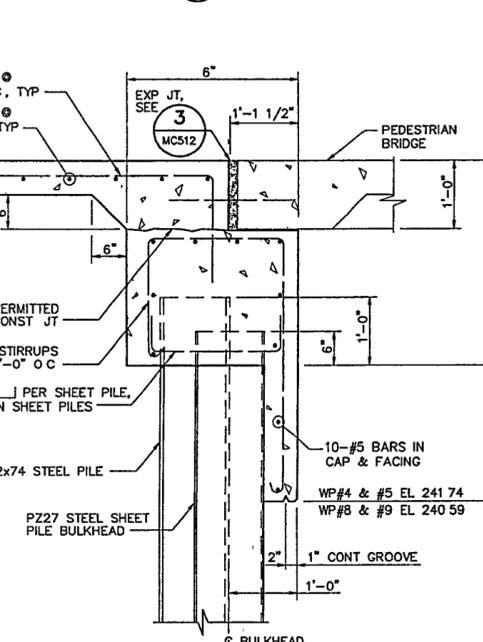
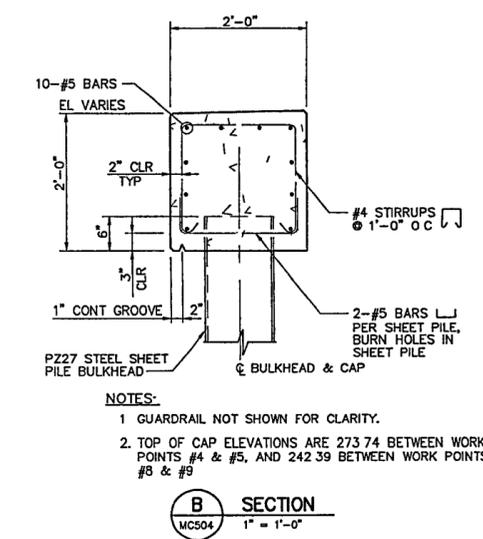
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1 BULKHEAD WALKWAY DETAIL
MC504 1/2" = 1'-0"



E ELEVATION
MC504 1/2" = 1'-0"



F ELEVATION
MC504 1/2" = 1'-0"

NOTES:
1. GUARDRAIL NOT SHOWN FOR CLARITY.
2. TOP OF CAP ELEVATIONS ARE 273.74 BETWEEN WORK POINTS #4 & #5, AND 242.39 BETWEEN WORK POINTS #8 & #9

NOTES:
1. BULKHEAD WALKWAY LEADING TO PEDESTRIAN BRIDGE 2 SHOWN, OTHER BULKHEAD WALKWAYS SIMILAR
2. LIGHTS NOT SHOWN FOR CLARITY REFER TO 'E' DRAWINGS
3. REFER TO 'L' DRAWINGS FOR GUARDRAIL LAYOUT AND POST SPACING

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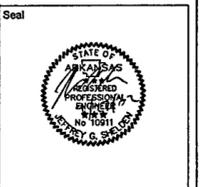
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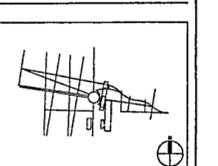
Fountain
DAN EUSER WATERARCHITECTURE INC.
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Issue	Date
04 100% Site Package 2 CD	09/27/02
03 80% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	08/29/02
01 100% Design Development	04/01/02



Job No. 4813

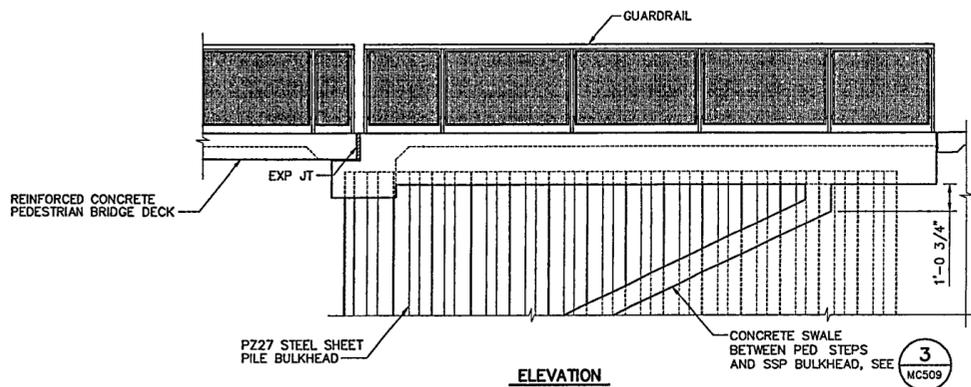
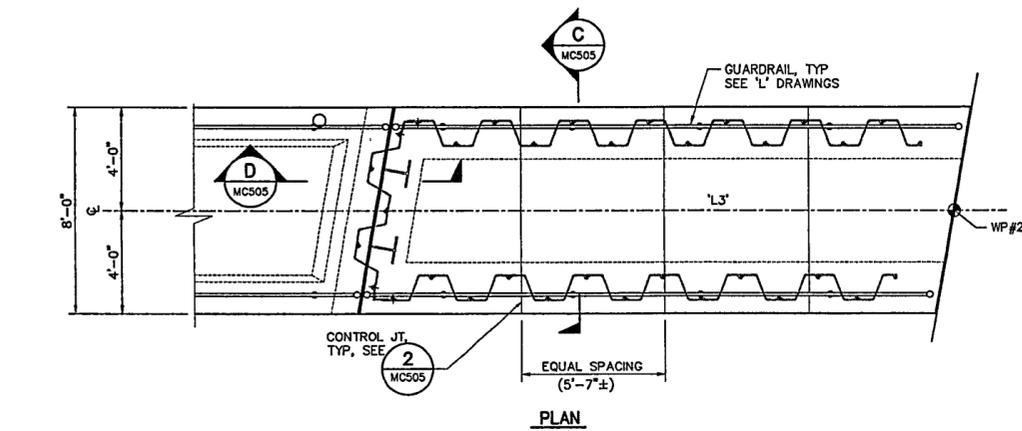
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Date SEPTEMBER 27, 2002

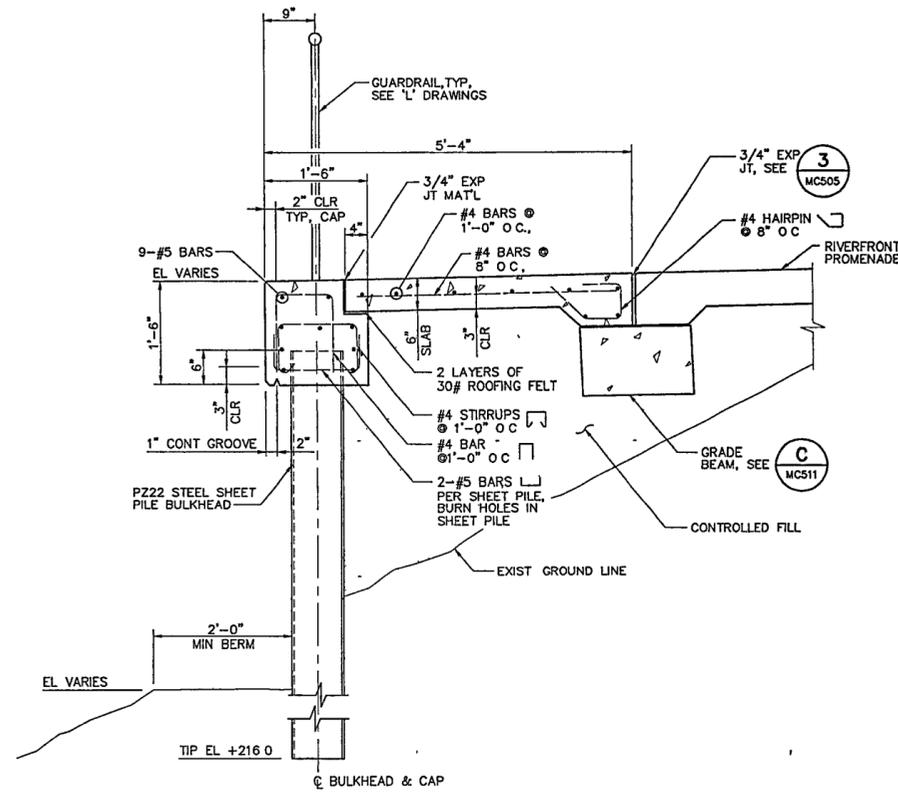
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Pedestrian Bridge
Walkway Details

Sheet No.

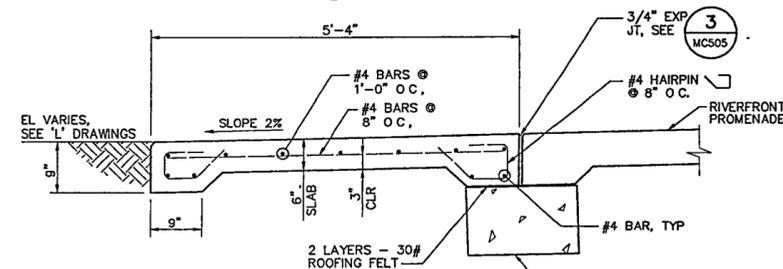
MC505



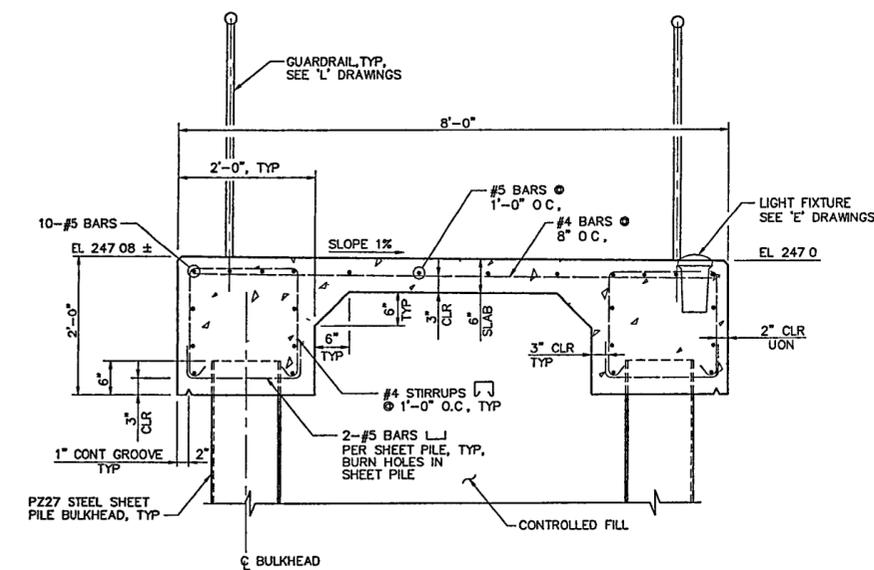
1 BULKHEAD WALKWAY DETAIL
3/8" = 1'-0"



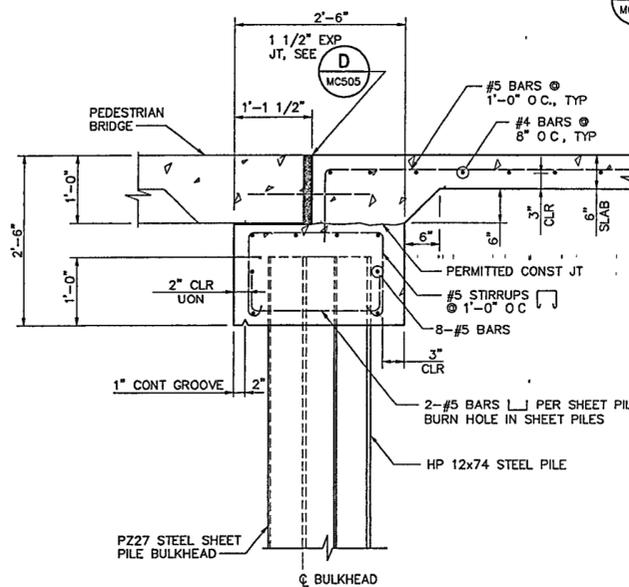
A SECTION
1" = 1'-0"



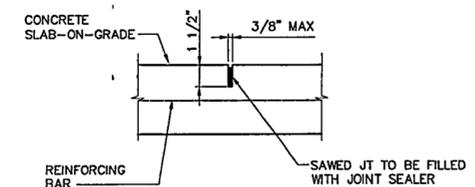
B SECTION
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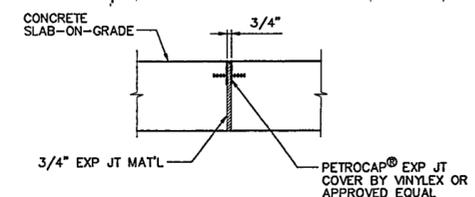
C SECTION
1" = 1'-0"



D SECTION
1" = 1'-0"



2 CONTROL JOINT
NTS



3 EXPANSION JOINT
NTS

**WILLIAM J. CLINTON
PRESIDENTIAL
CENTER & PARK**

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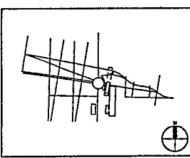
Fountain
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Issue	Date
04 100% Site Package 2 CD	09/27/02
03 90% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	08/29/02
01 100% Design Development	04/01/02



Job No 4813

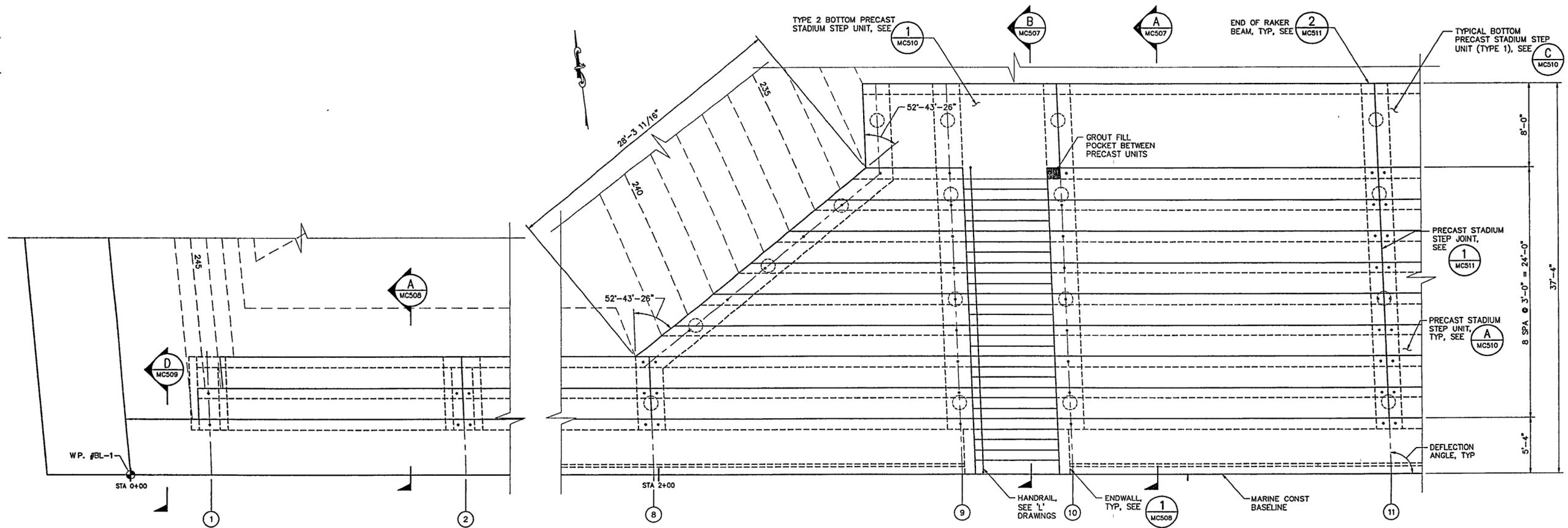
Scale 1/4" = 1'-0"

Date SEPTEMBER 27, 2002

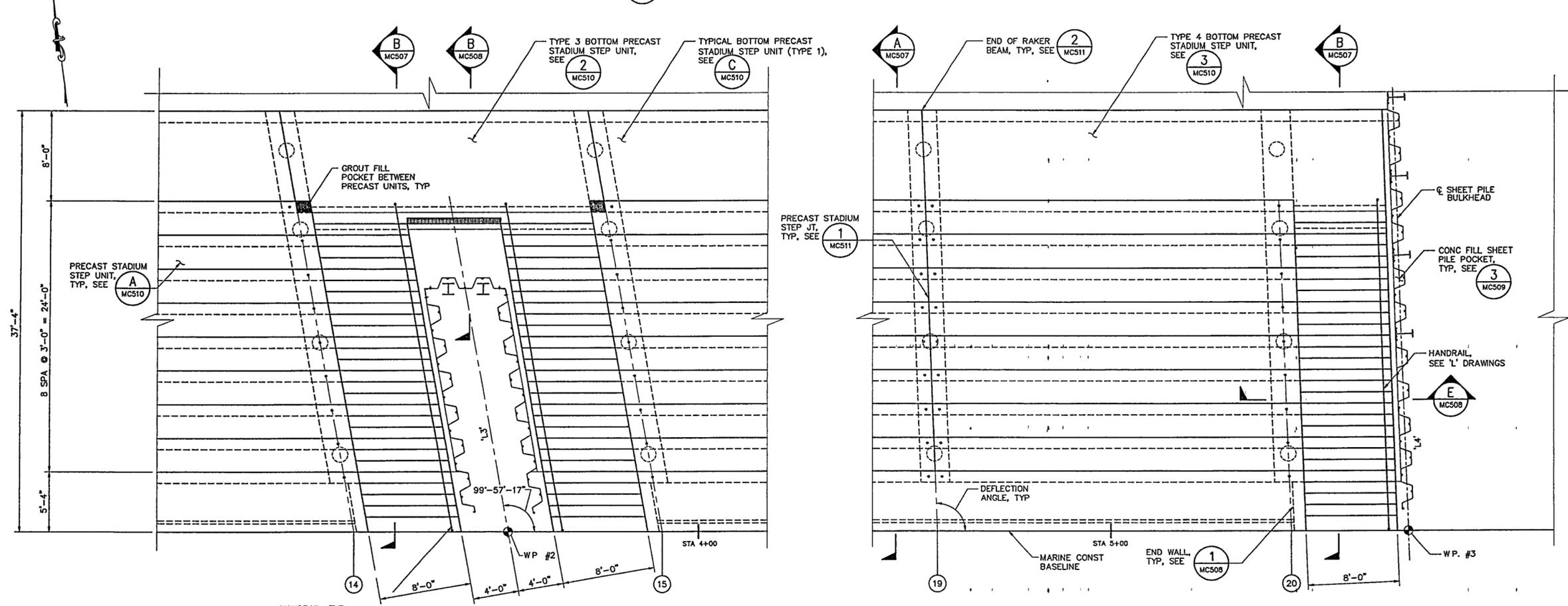
Title **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
Stadium Steps
Partial Plans

Sheet No **MC506**

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1 PARTIAL PLAN
MC506
1/4" = 1'-0"



2 PARTIAL PLAN
MC506
1/4" = 1'-0"

2/21

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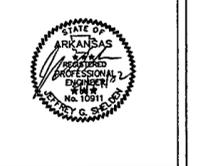
Playground Design

PLAY SITE ARCHITECTURE
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978 283 1090

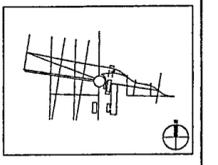
Signage Design

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Seal



Issue	Date
D4 100% Site Package 2 CD	09/27/02
D3 90% Site Package 2 CD	08/16/02
D2 80% Site Package 2 CD	06/29/02
D1 100% Design Development	04/01/02



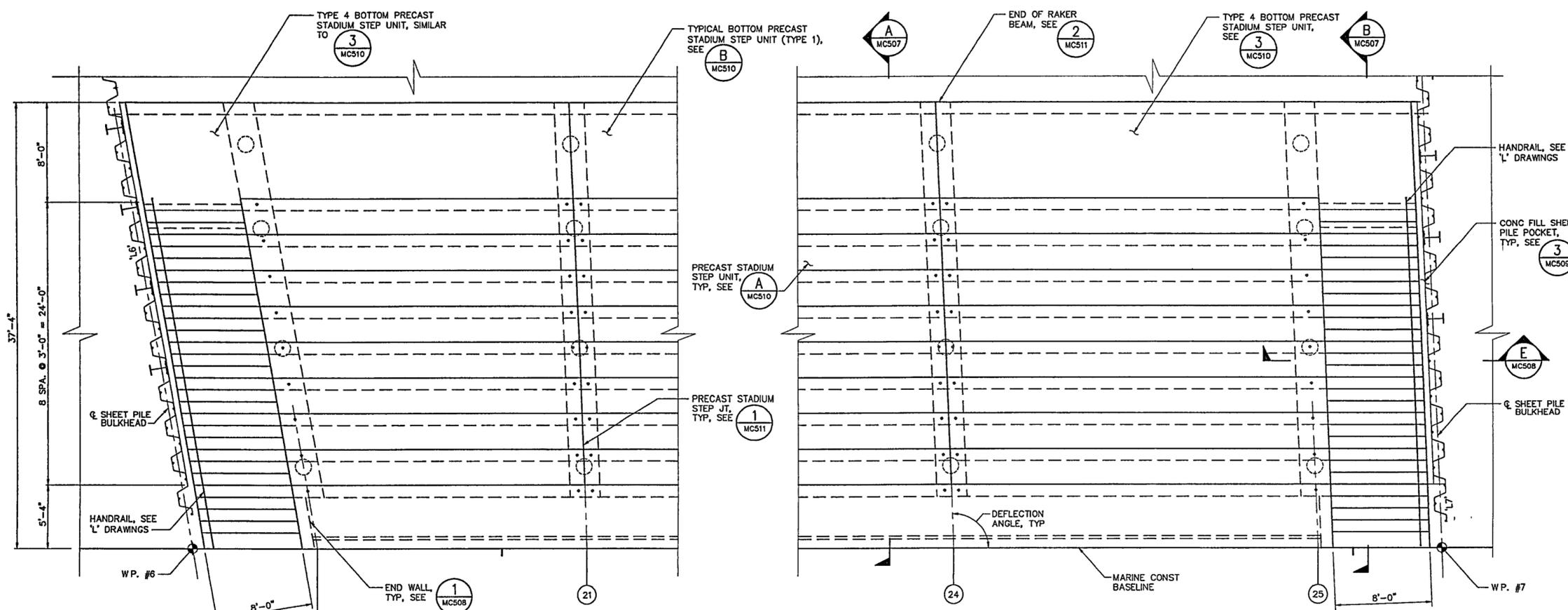
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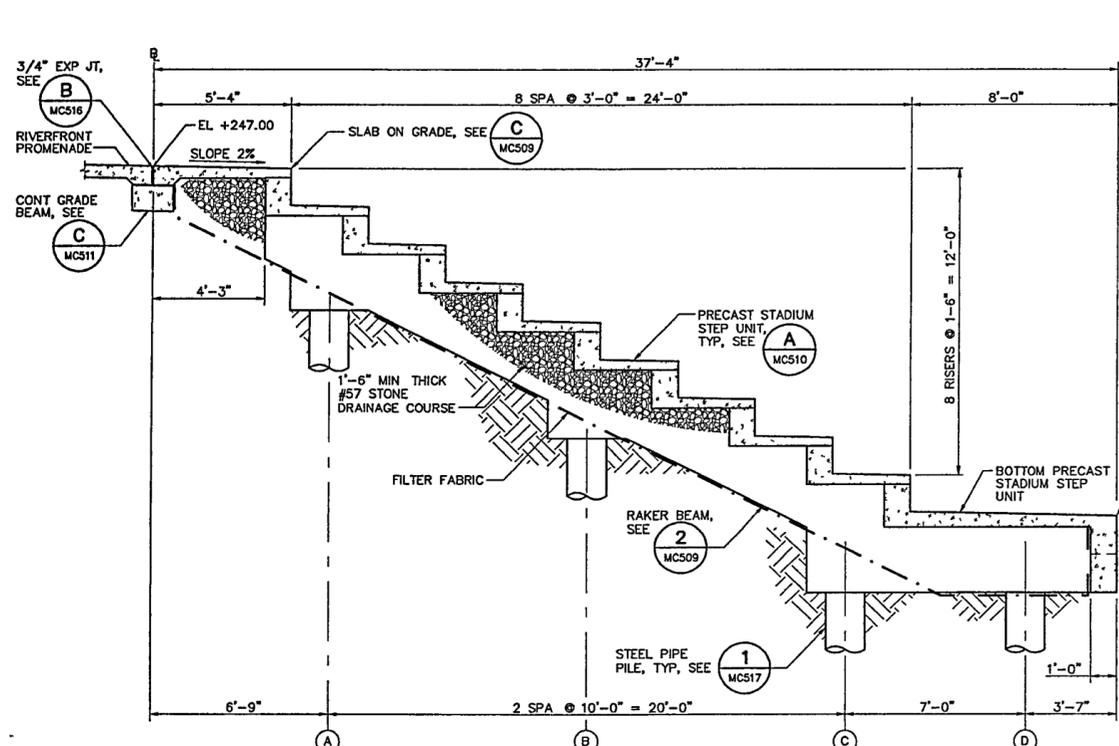
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Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Stadium Steps
Partial Plans & Sections
Sheet No.

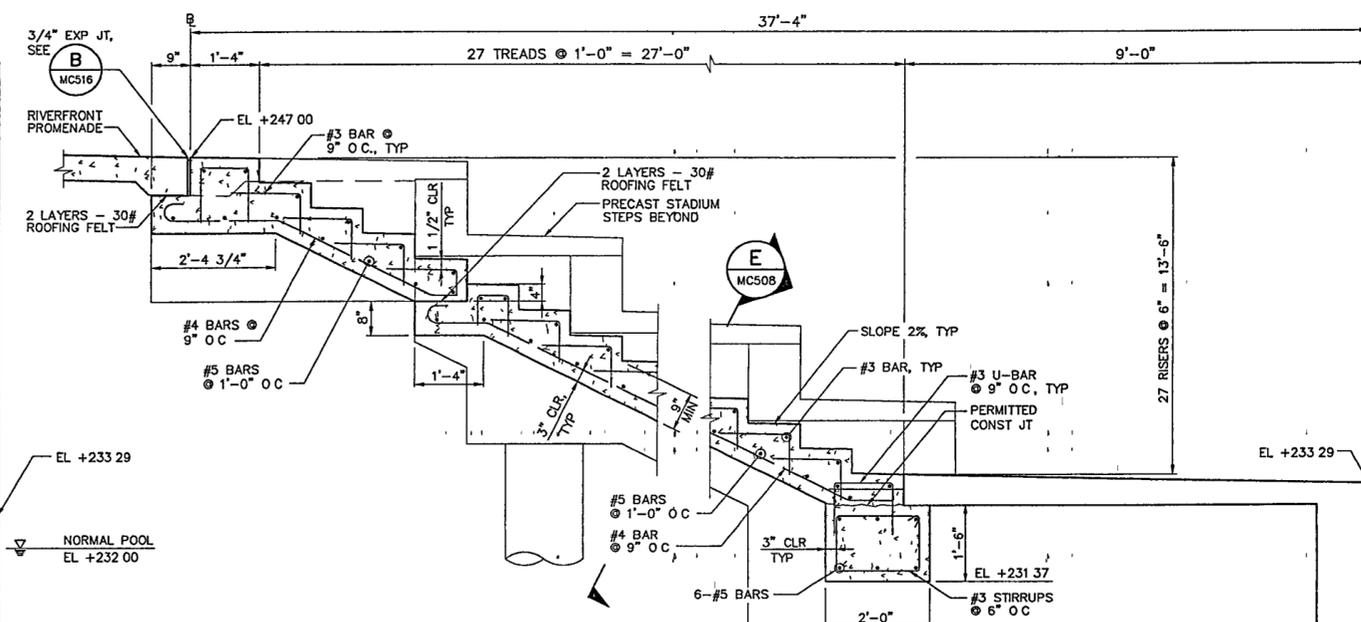
MC507



1 PARTIAL PLAN
1/4" = 1'-0"



A SECTION
3/8" = 1'-0"



B SECTION
3/4" = 1'-0"

- NOTES
- HANDRAIL NOT SHOWN FOR CLARITY, SEE 'L' DRAWINGS
 - PLACE 1'-6" THICK DRAINAGE COURSE OF #57 STONE ON LAYER OF FILTER FABRIC BENEATH CAST-IN-PLACE STAIRS
 - #5 BARS IN BOTTOM MAT OF REINFORCING AND 2'-0" X 1'-6" BEAM TO BE DEVELOPED INTO RAKER BEAM. SEE SECTION E ON MC508

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Seal



Revision	Date
04 100% Site Package 2 CD	09/27/02
03 90% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	06/29/02
01 100% Design Development	04/01/02

Job No. 4813

Scale AS SHOWN

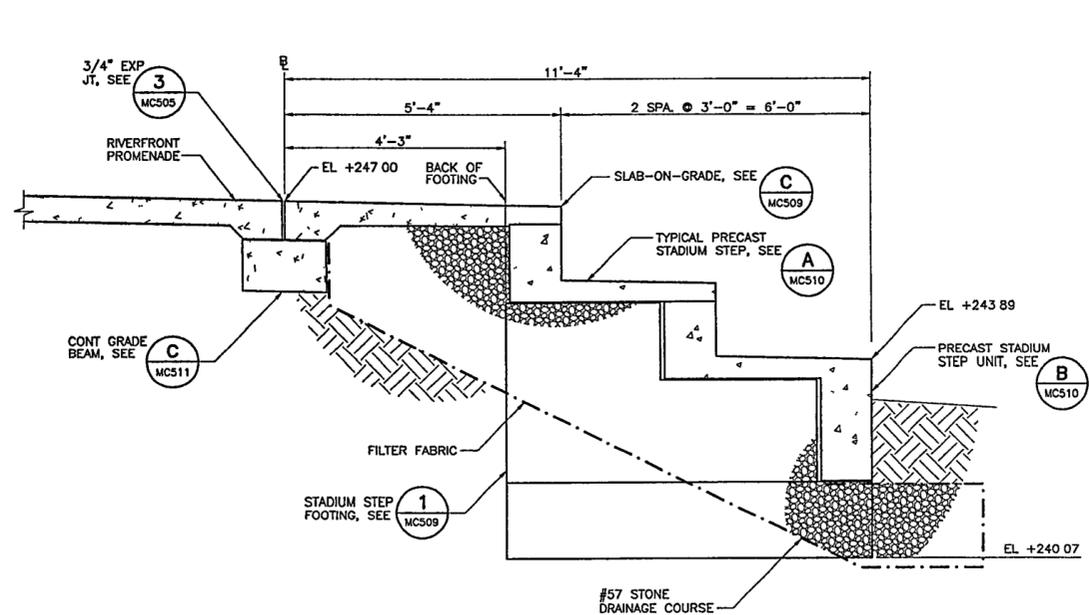
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Title SITE PACKAGE 2
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Stadium Step Details
Sheet 1 of 2

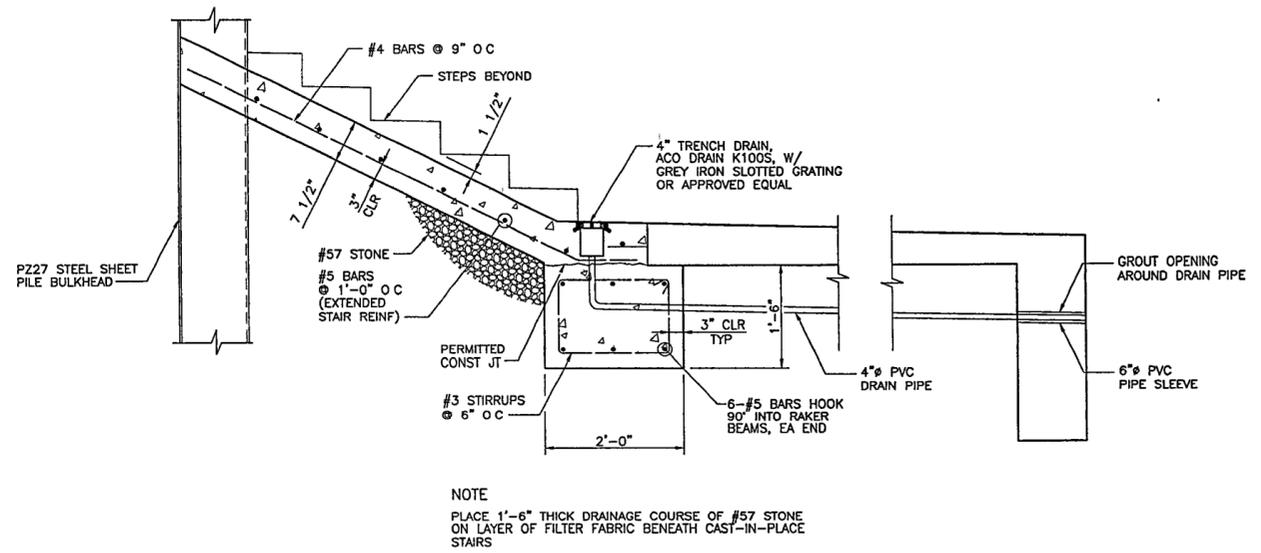
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MC508

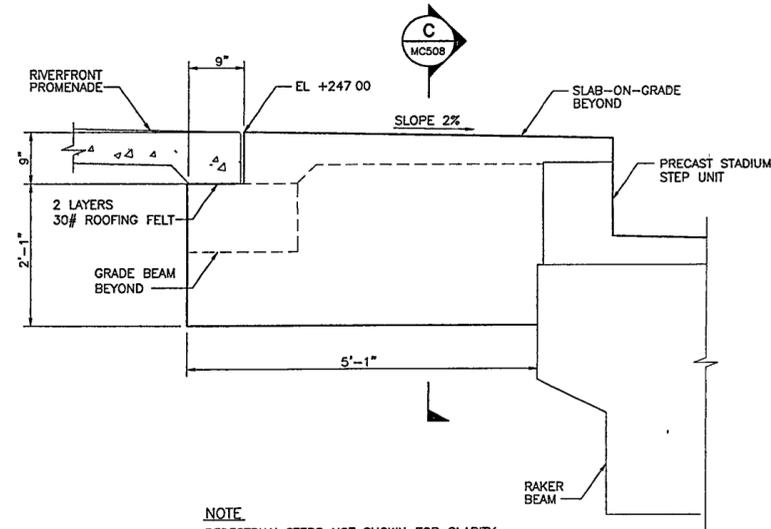
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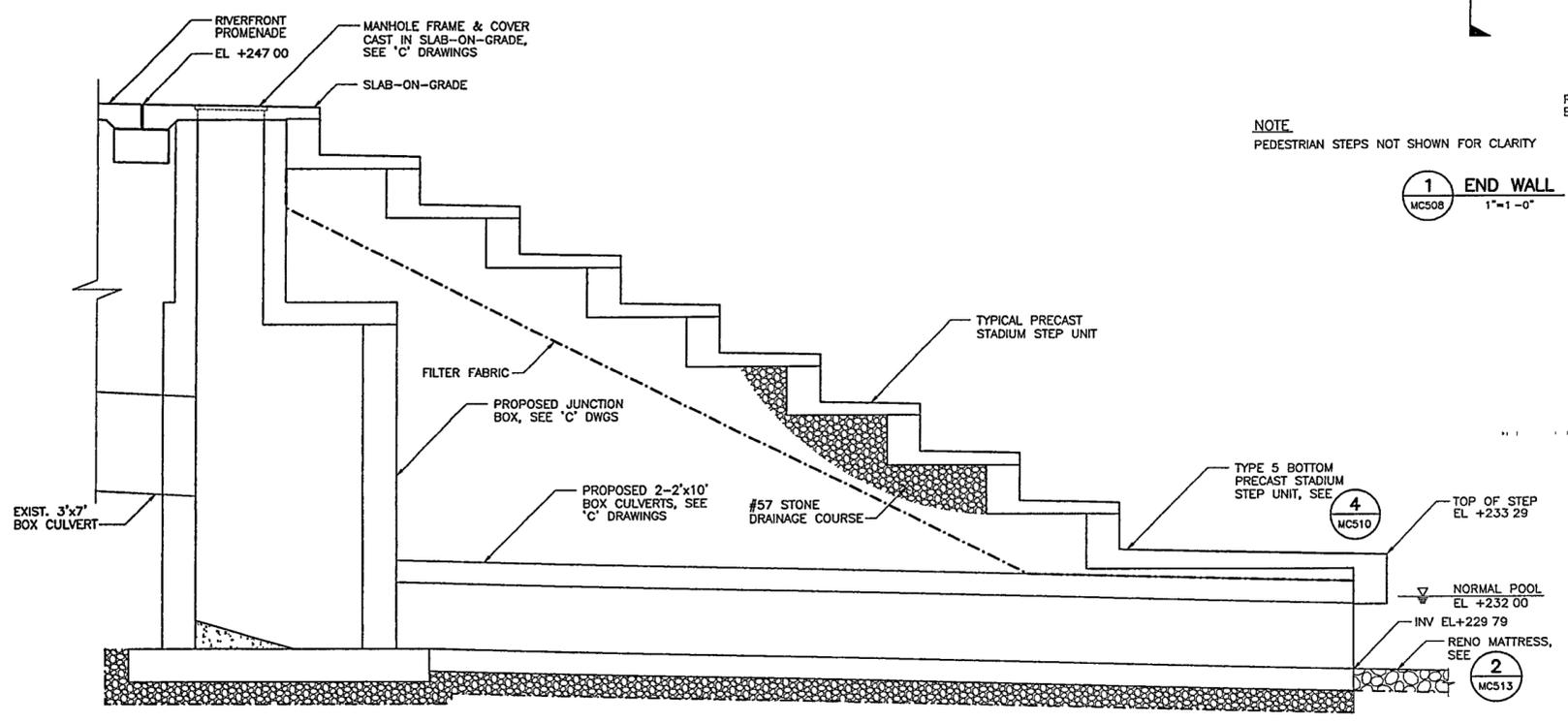
A SECTION
MC508 3/4"=1'-0"



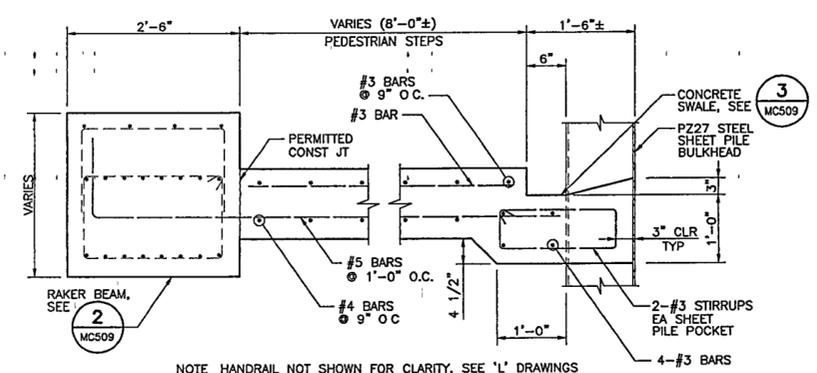
B SECTION
MC508 1"=1'-0"



C SECTION
MC508 1"=1'-0"



D SECTION
MC508 1/2"=1'-0"



E SECTION
MC508 1"=1'-0"

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Seal



CD	100% Site Package 2 CD	09/27/02
03	90% Site Package 2 CD	08/18/02
02	60% Site Package 2 CD	08/29/02
01	100% Design Development Issue	04/01/02

Job No. 4813

Scale AS SHOWN

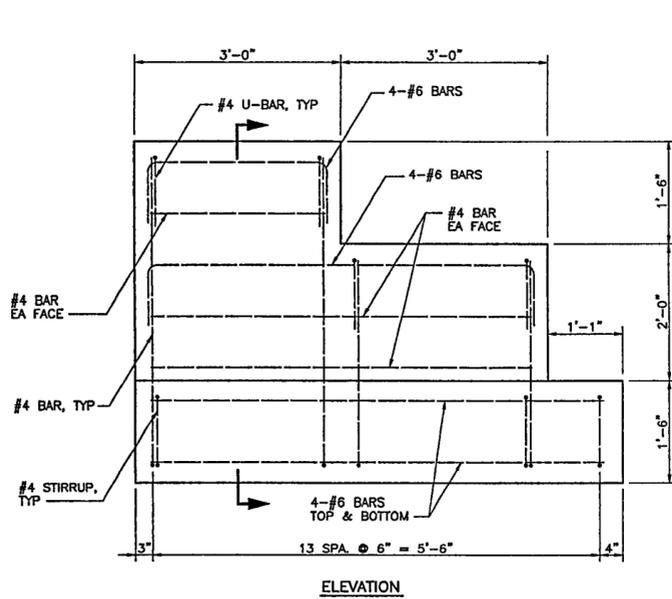
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Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Stadium Step Details
Sheet 2 of 2

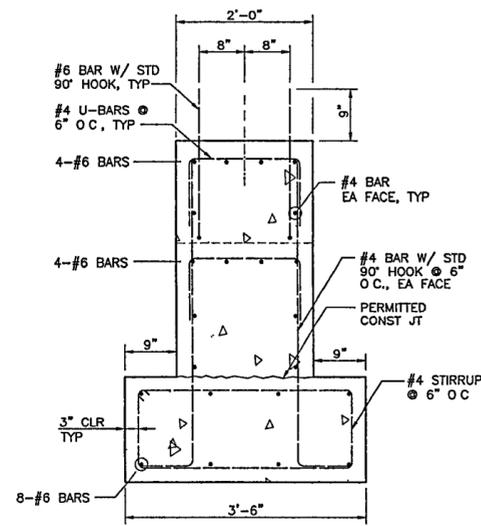
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MC509

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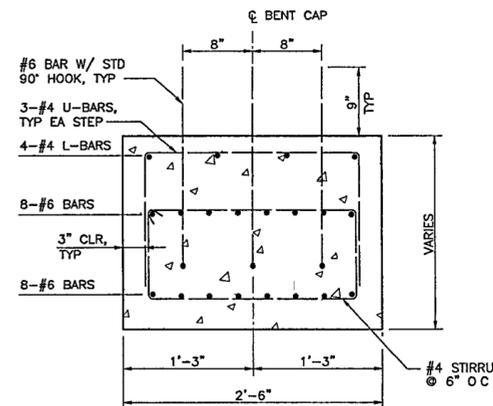


ELEVATION



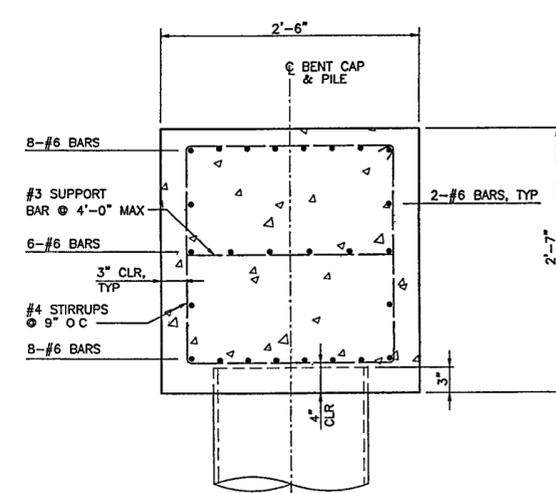
SECTION

NOTE:
ONLY ONE #6 BAR FOR PRECAST ATTACHMENT,
EXTENDING FROM C OF CAP, IS REQUIRED AT
FOOTING ①.



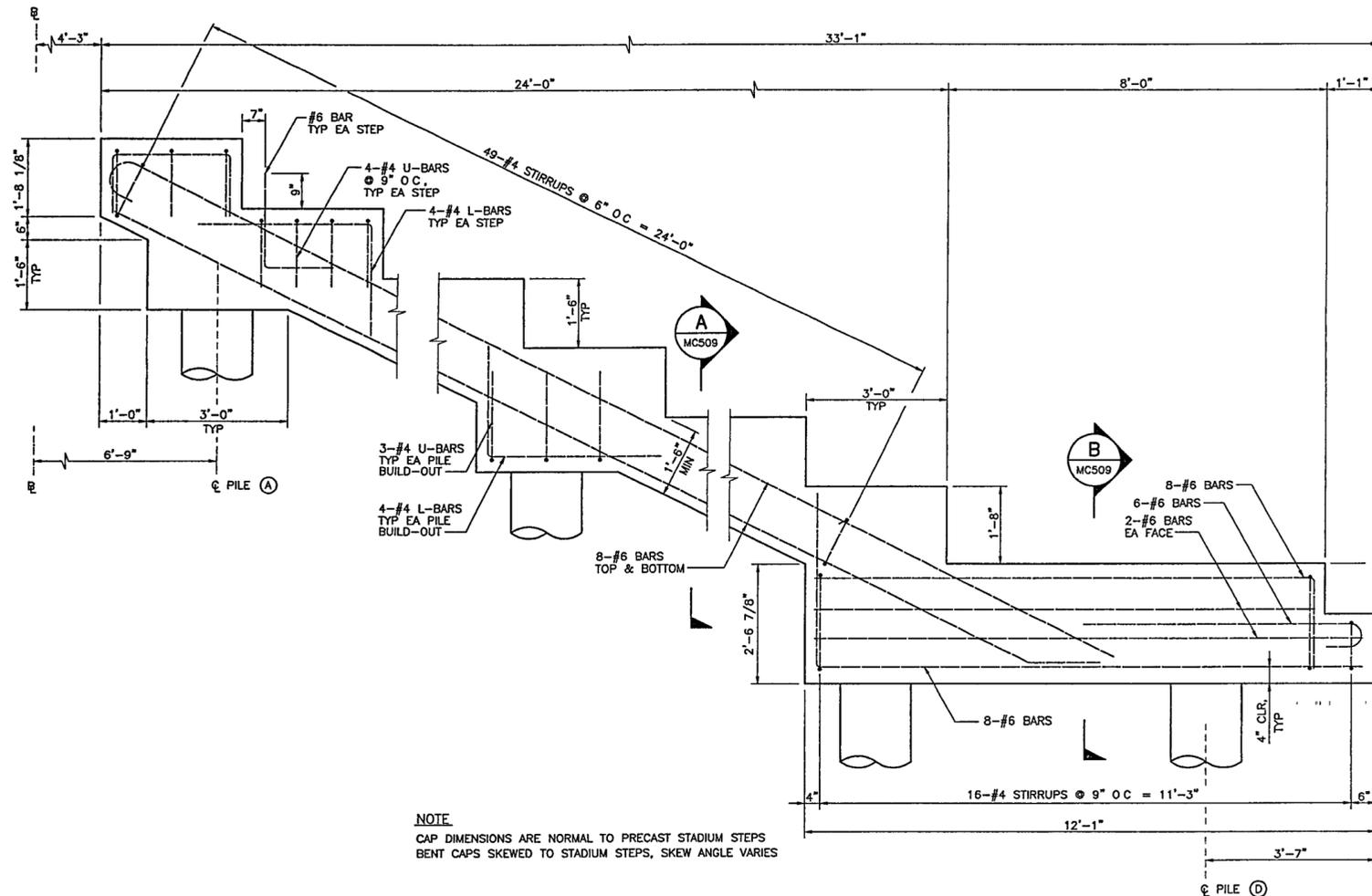
NOTE:
ONLY ONE #6 BAR FOR PRECAST ATTACHMENT,
EXTENDING FROM C OF CAP, IS REQUIRED AT
BEAMS ⑧, ⑨, ⑩, ⑪, ⑫, ⑬, ⑭, ⑮, ⑯, ⑰, ⑱, ⑲, & ⑳

A SECTION
MC509 1 1/2"=1'-0"



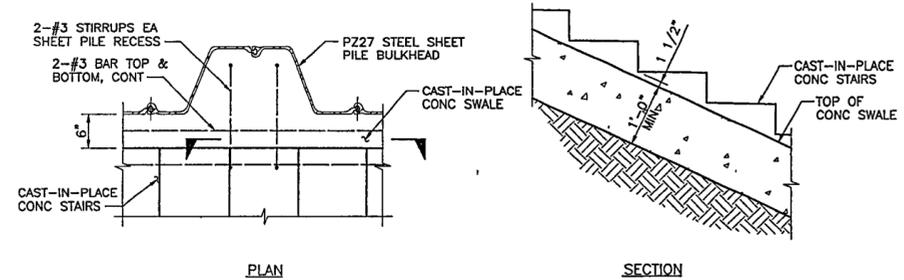
B SECTION
MC509 1 1/2"=1'-0"

1 SECTION
MC509 1"=1'-0"

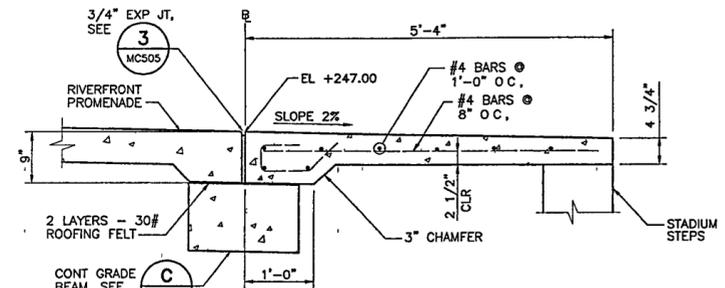


2 RAKER BEAM DETAIL
MC509 3/4"=1'-0"

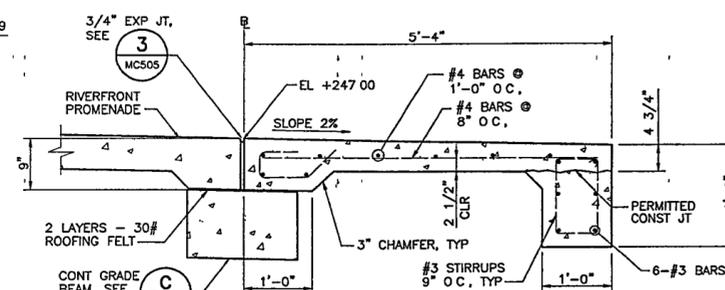
NOTE:
CAP DIMENSIONS ARE NORMAL TO PRECAST STADIUM STEPS
BENT CAPS SKEWED TO STADIUM STEPS, SKEW ANGLE VARIES



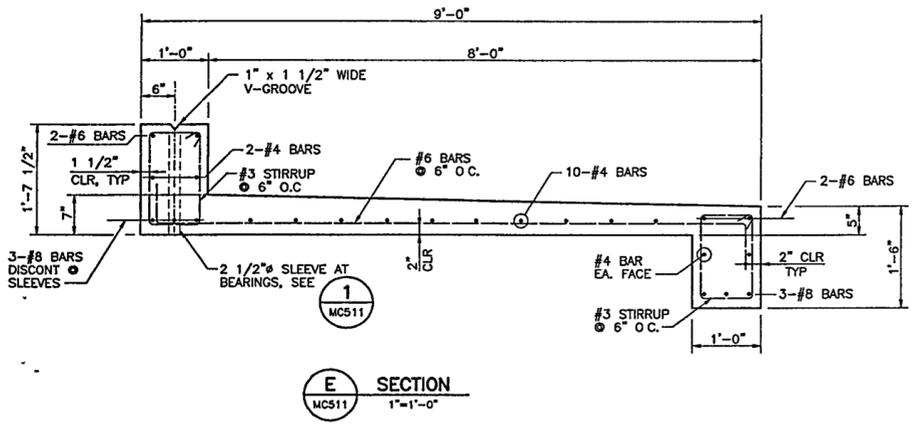
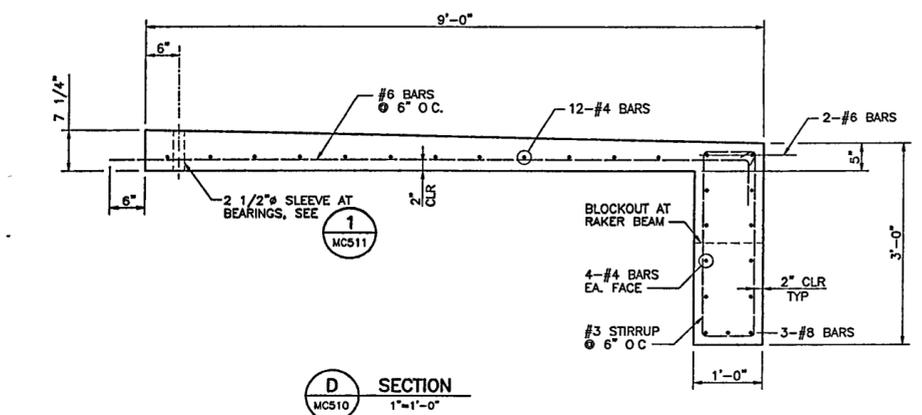
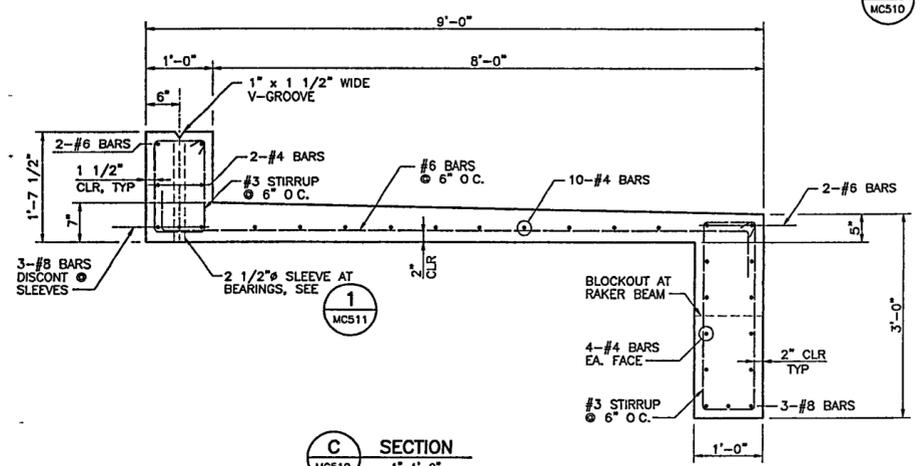
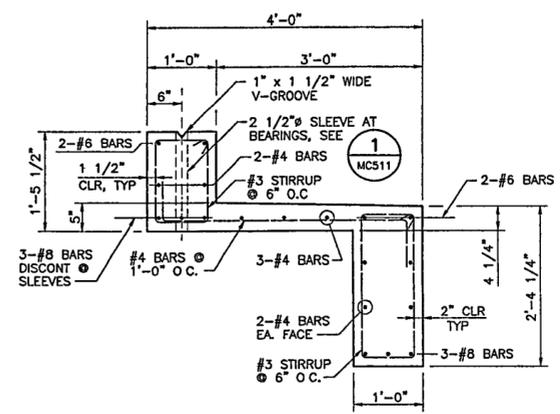
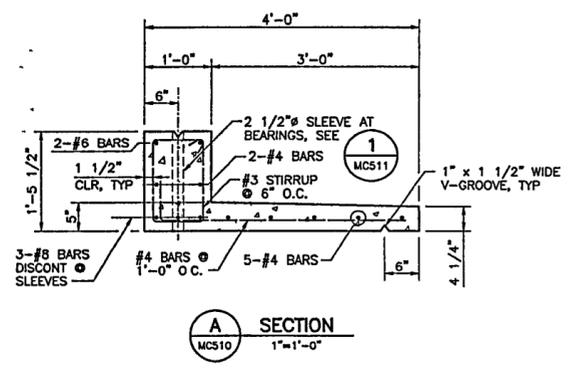
3 CONCRETE SWALE
MC509 1"=1'-0"



C SLAB ON GRADE SECTION
MC509 1"=1'-0"



D SLAB ON GRADE SECTION
MC511 1"=1'-0"

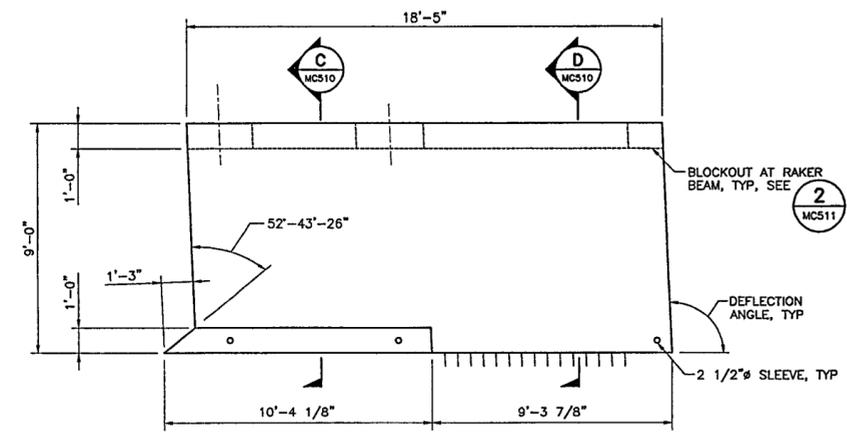


B SECTION
MC510 1"=1'-0"

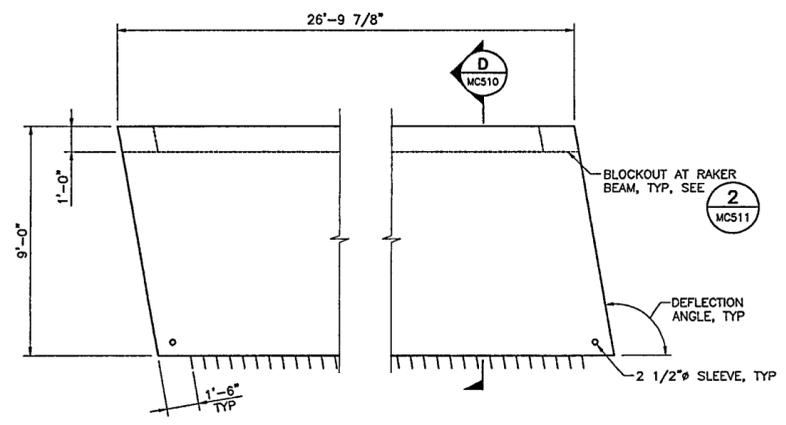
C SECTION
MC510 1"=1'-0"

D SECTION
MC510 1"=1'-0"

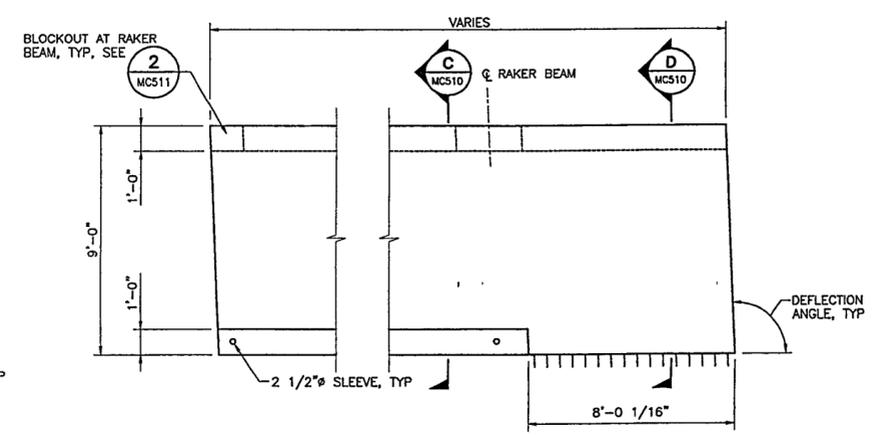
E SECTION
MC511 1"=1'-0"



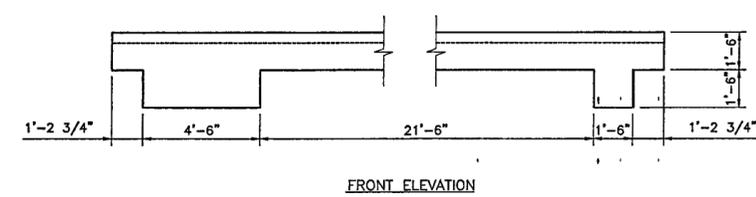
1 TYPE 2 BOTTOM PRECAST STEP UNIT
MC510 3/8"=1'-0"



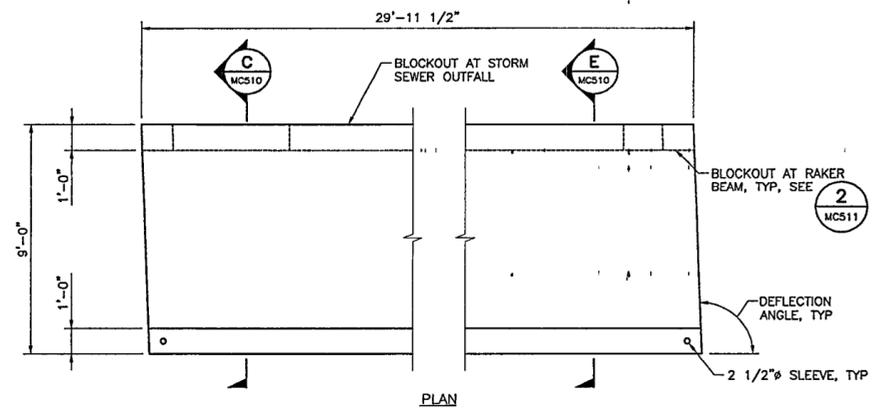
2 TYPE 3 BOTTOM PRECAST STEP UNIT
MC510 3/8"=1'-0"



3 TYPE 4 BOTTOM PRECAST STEP UNIT
MC510 3/8"=1'-0"



FRONT ELEVATION



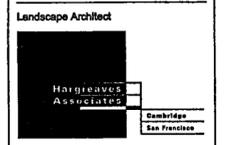
4 TYPE 5 BOTTOM PRECAST STEP UNIT
MC510 3/8"=1'-0"

- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ANGLES AND SUBMIT TO CONTRACTING AGENT FOR APPROVAL PRIOR TO ANY PRECAST FABRICATION
 - EXPOSED SURFACE OF PRECAST SHALL BE LIGHTLY SANDBLASTED TO PROVIDE TEXTURE & NON SKID SURFACE

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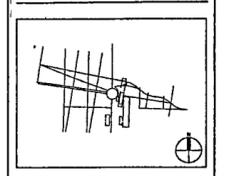
Fountain
DAN EUSER WATERARCHITECTURE INC
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CANADA
905 884 4176

Playground Design
PLAY SITE ARCHITECTURE
7 Fairway Road
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Signage Design
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288 Spring Street, Sixth Floor
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Issue	Date
04 100% Site Package 2 CD	09/27/02
03 80% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	06/29/02
01 100% Design Development	04/01/02



Job No. 4813

Scale AS SHOWN

Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
Stadium Steps Precast
Details Sheet 1 of 2

Sheet No. **MC510**

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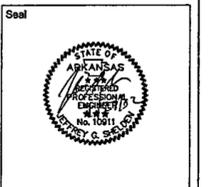
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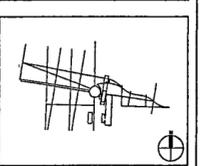
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Job No 4813

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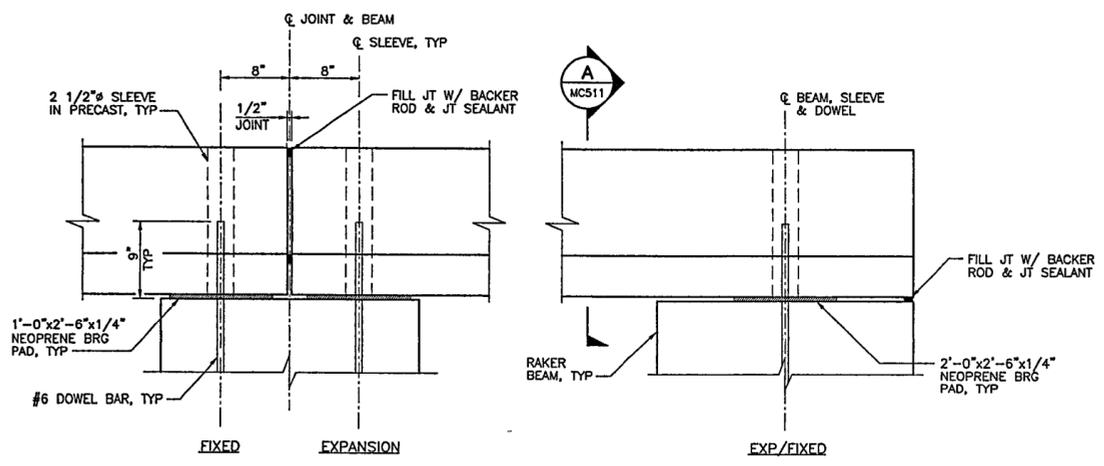
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Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Stadium Steps Precast
Details Sheet 2 of 2

Sheet No

MC511

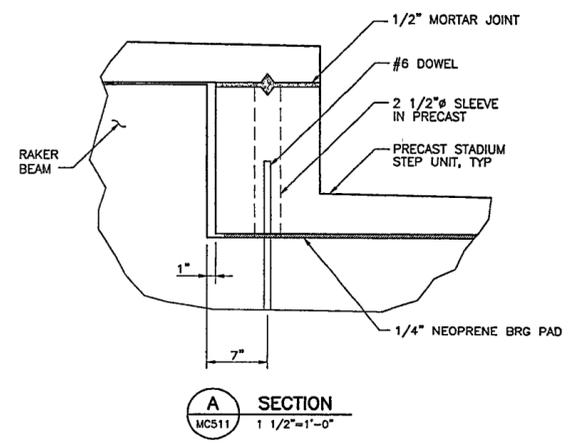
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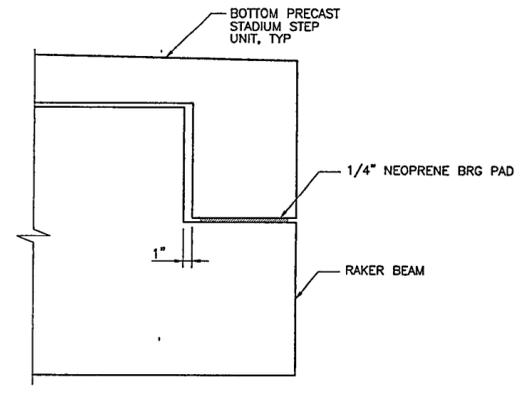
NOTES:

1. ADD PLASTIC SHIMS AS NECESSARY TO INSURE PRECAST UNITS ARE LEVEL AND MATCH-UP WITH ADJACENT UNIT.
2. THE 2 1/2" Ø DOWEL HOLES AT FIXED ENDS OF PRECAST SECTIONS SHALL BE FILLED WITH GROUT. THE 2 1/2" Ø DOWEL HOLES AT EXPANSION ENDS OF PRECAST SECTIONS SHALL BE FILLED WITH HOT Poured RUBBER ASPHALT MATERIAL TO 1 1/2" ABOVE TOP OF DOWELS AND THEN FILLED WITH GROUT.
3. THE HOT Poured RUBBER ASPHALT MATERIAL SHALL CONFORM TO THE REQUIREMENTS FOR JOINT SEALER.
4. EAST END BEARING OF EACH PRECAST STADIUM STEP SHALL BE FIXED ALL OTHER BEARINGS SHALL BE EXPANSION

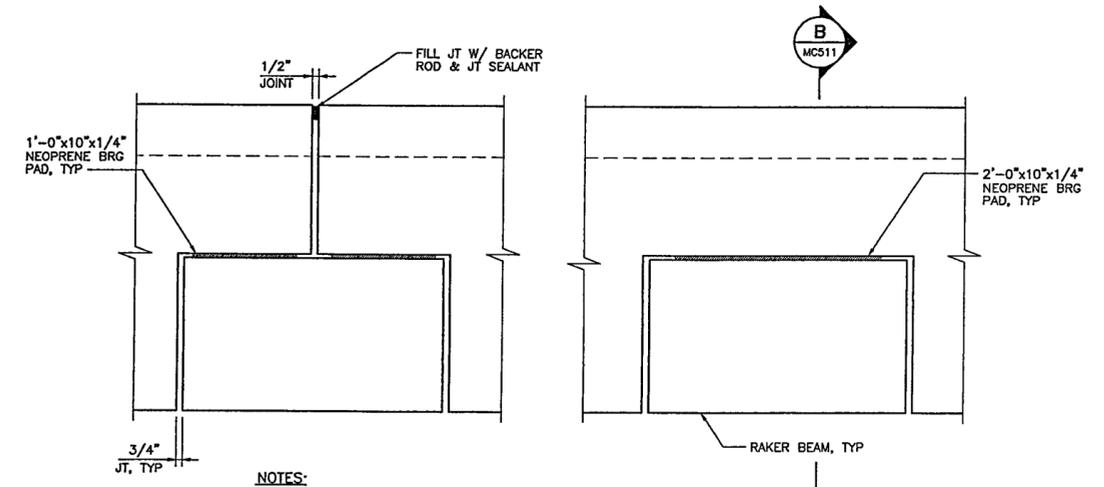
1 SECTION
1 1/2"=1'-0"



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



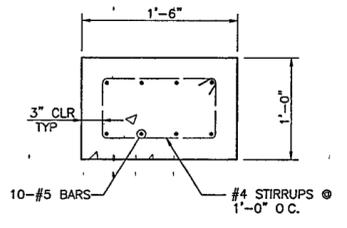
B SECTION
1 1/2"=1'-0"



NOTES:

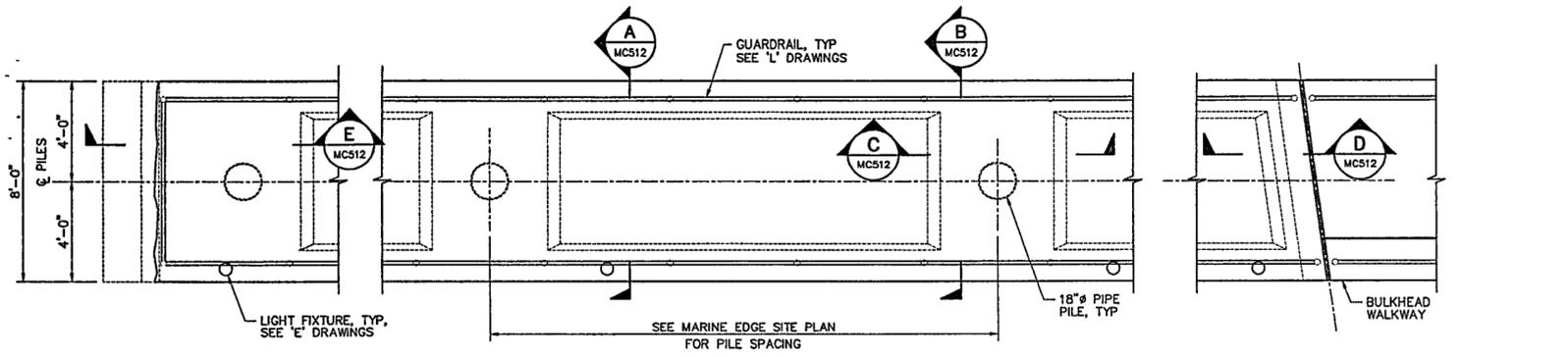
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3. THE HOT Poured RUBBER ASPHALT MATERIAL SHALL CONFORM TO THE REQUIREMENTS FOR JOINT SEALER.
4. PERMANENTLY AFFIX NEOPRENE BEARING PAD TO PRECAST WITH ADHESIVE

2 END OF RAKER BEAM DETAIL
1 1/2"=1'-0"

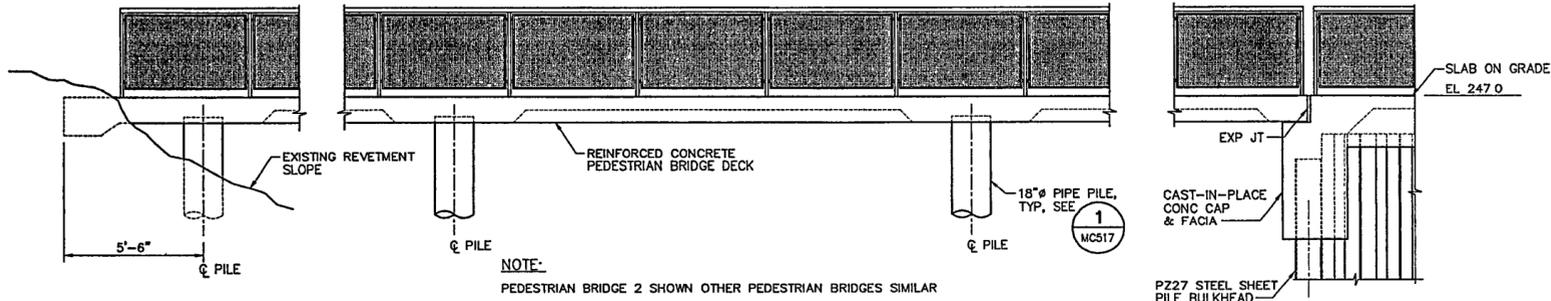


NOTE GRADE BEAM DISCONTINUOUS AT PEDESTRIAN STEPS

C GRADE BEAM SECTION
1 1/2"=1'-0"



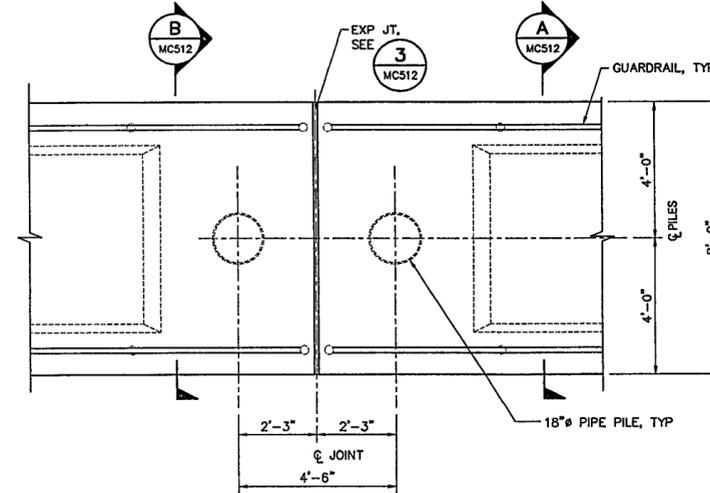
PLAN



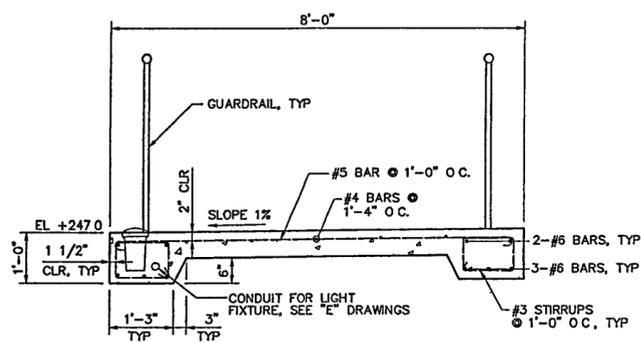
ELEVATION

1 TYPICAL PEDESTRIAN BRIDGE
3/8" = 1'-0"

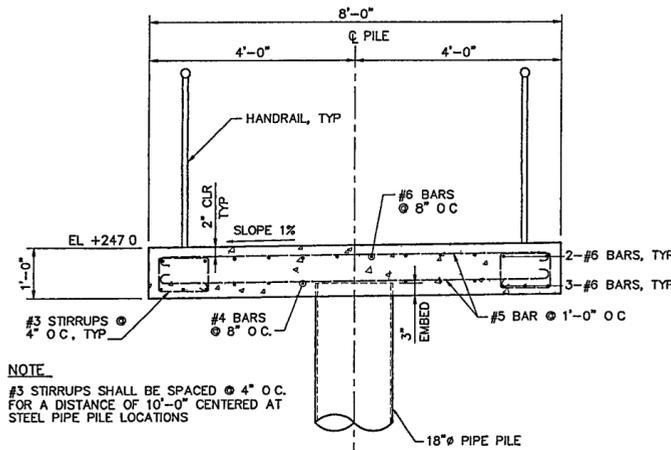
NOTE:
PEDESTRIAN BRIDGE 2 SHOWN OTHER PEDESTRIAN BRIDGES SIMILAR



2 PEDESTRIAN BRIDGE 1 JOINT DETAIL
1/2" = 1'-0"

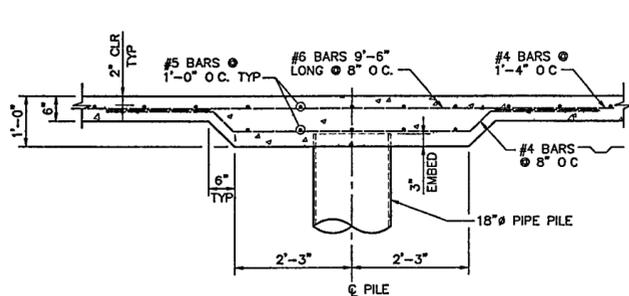


A SECTION
3/4" = 1'-0"

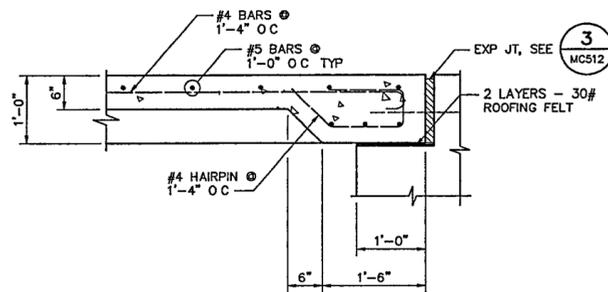


B SECTION
3/4" = 1'-0"

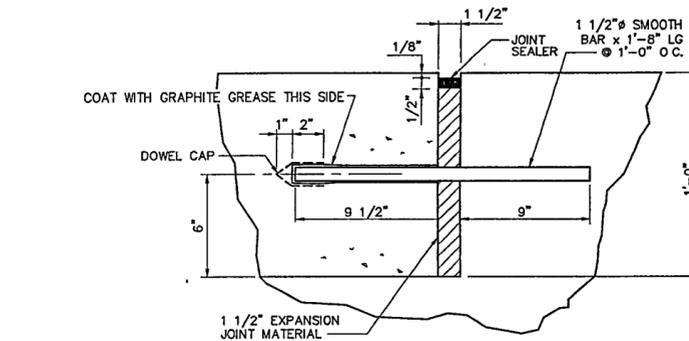
NOTE:
#3 STIRRUPS SHALL BE SPACED @ 4" O.C. FOR A DISTANCE OF 10'-0" CENTERED AT STEEL PIPE PILE LOCATIONS



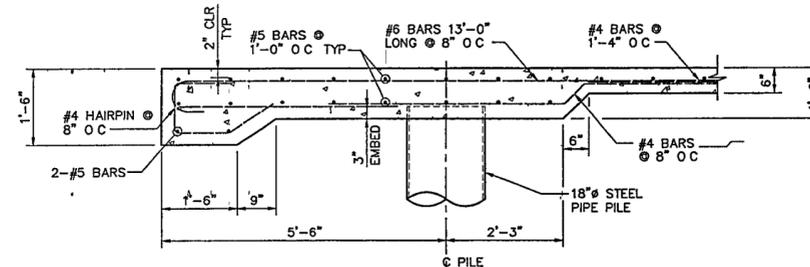
C SECTION
3/4" = 1'-0"



D SECTION
1" = 1'-0"



3 PEDESTRIAN BRIDGE EXPANSION JOINT DETAIL
NTS



E SECTION
3/4" = 1'-0"

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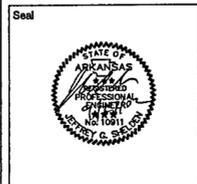
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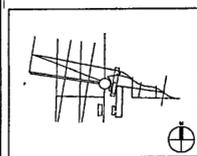
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Issue	Date
04 100% Site Package 2 CD	09/27/02
03 90% Site Package 2 CD	08/16/02
02 80% Site Package 2 CD	08/29/02
01 100% Design Development	04/01/02



Job No. 4813

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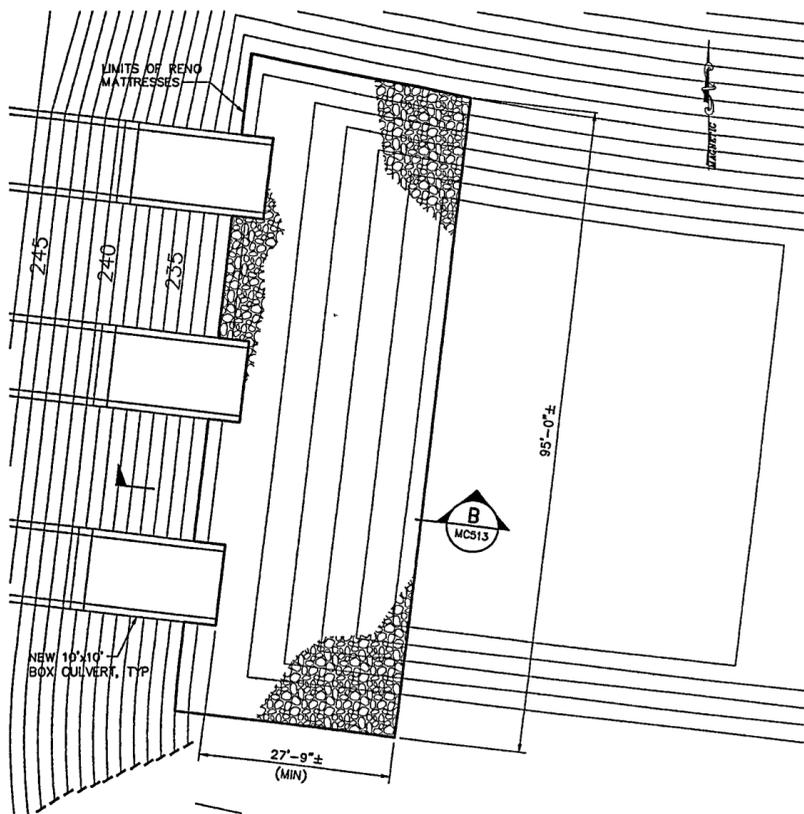
Date SEPTEMBER 27, 2002

Title **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
Pedestrian Bridges
Details

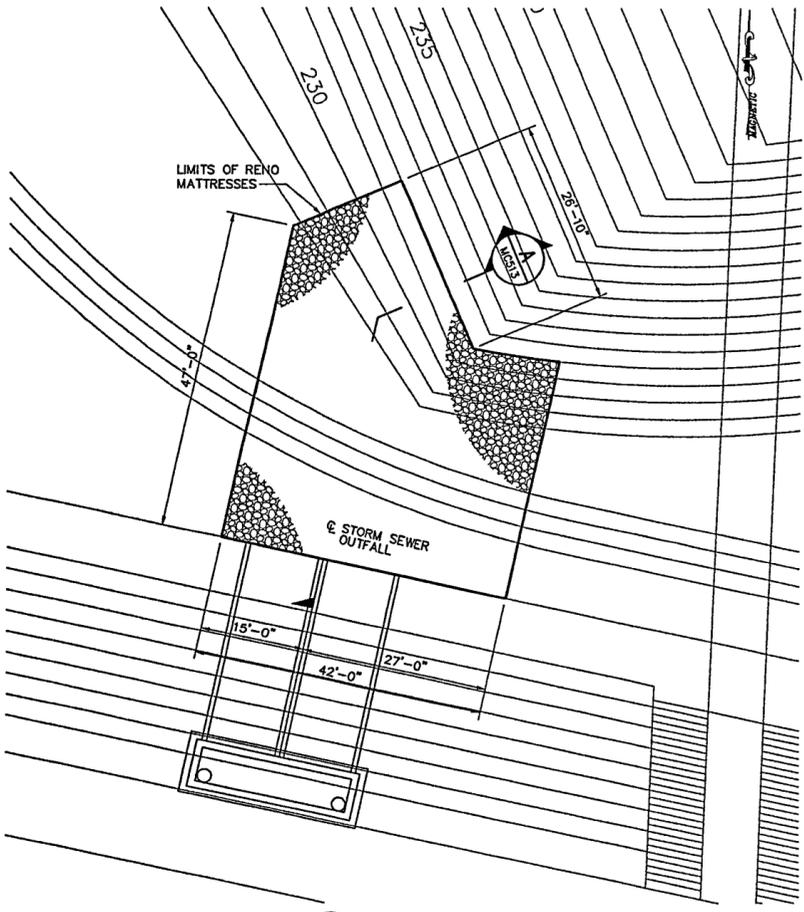
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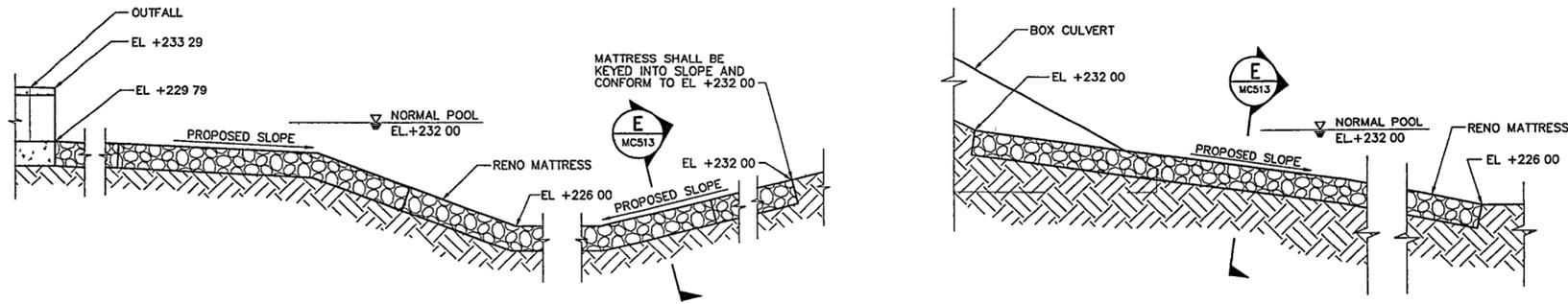
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1 PARTIAL PLAN
MCS13 1"=10'

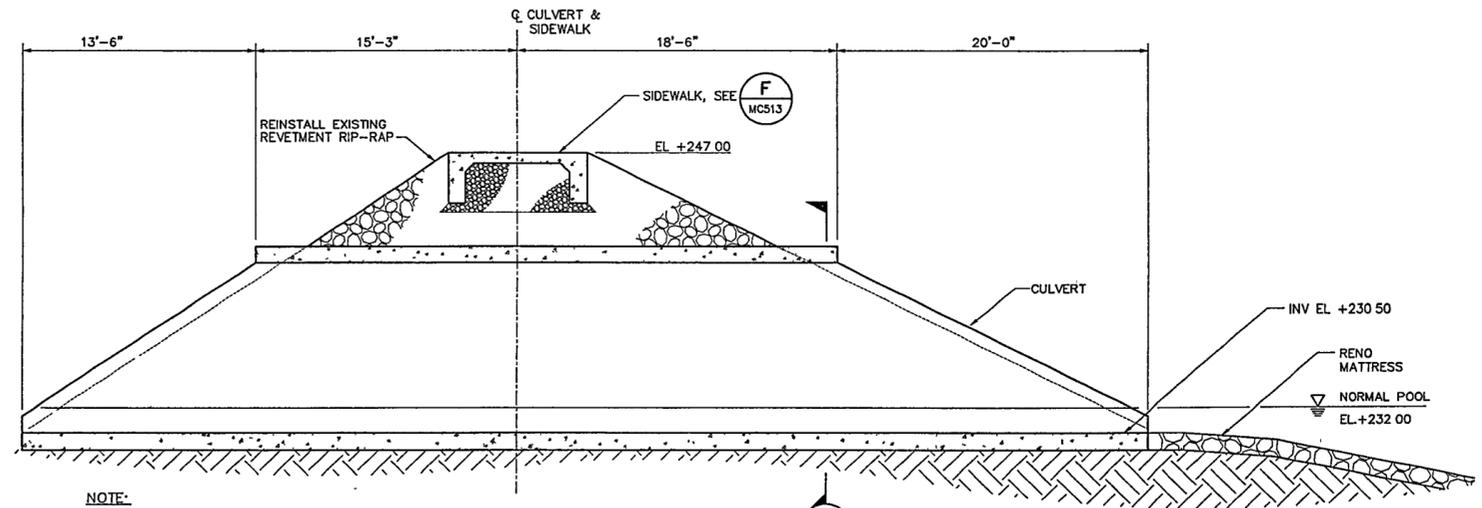


2 PARTIAL PLAN
MCS13 1"=10'



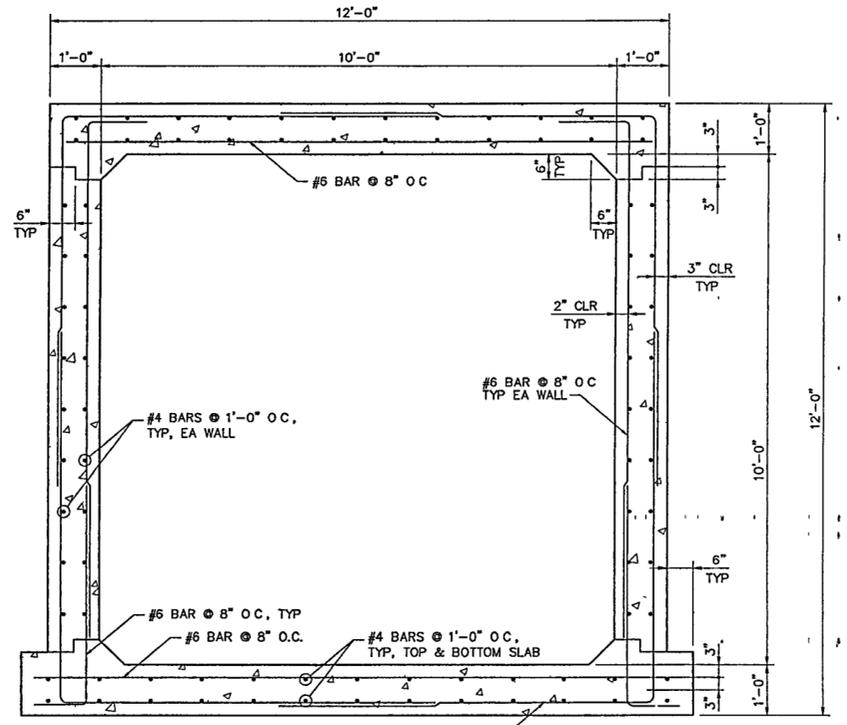
A SECTION
MCS13 3/8"=1'-0"

B SECTION
MCS13 3/8"=1'-0"

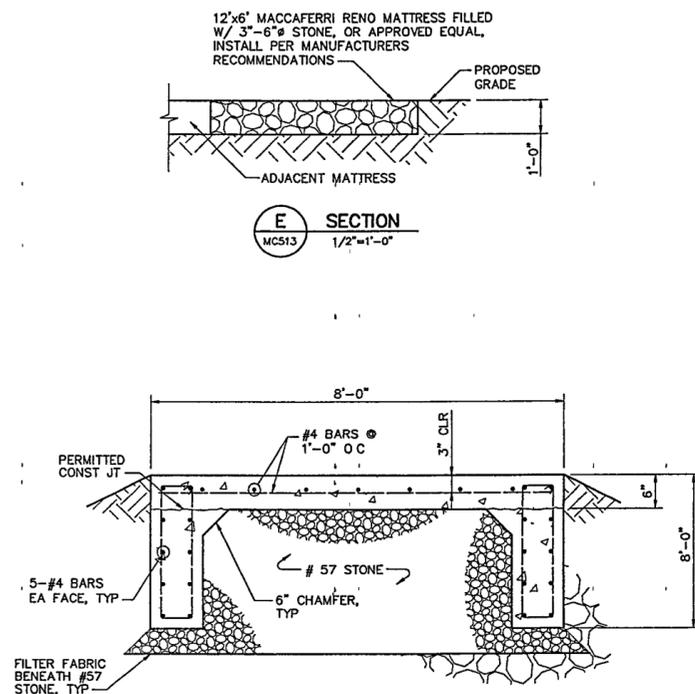


C SECTION
MCS13 3/16"=1'-0"

NOTE:
GUARDRAIL NOT SHOWN FOR CLARITY.



D SECTION
MCS13 3/4"=1'-0"



E SECTION
MCS13 1/2"=1'-0"

F SECTION
MCS13 1/2"=1'-0"

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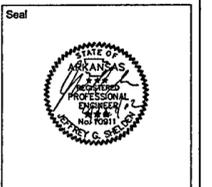
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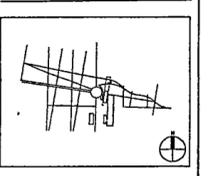
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04 100% Site Package 2 CD	09/27/02
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02 60% Site Package 2 CD	06/29/02
01 100% Design Development	04/01/02



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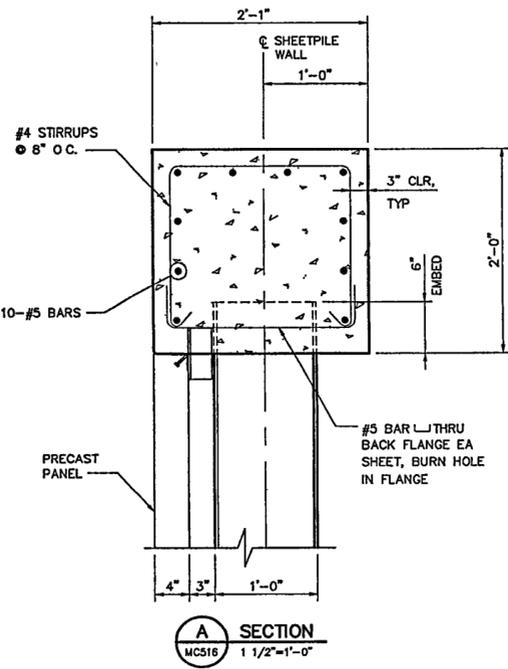
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Title **SITE PACKAGE 2**
100% CONSTRUCTION DOCUMENTS
Culvert and Rip Rap
Details

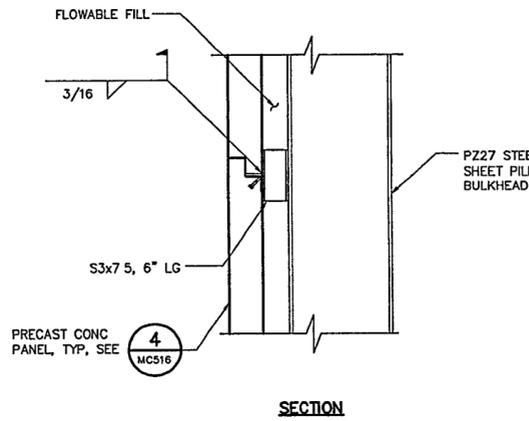
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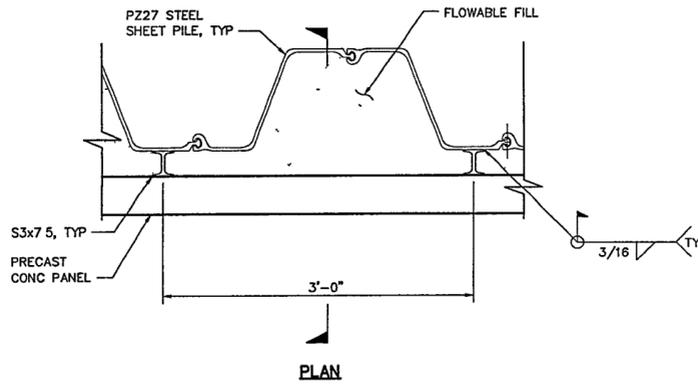
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A SECTION
MC516 1 1/2"=1'-0"

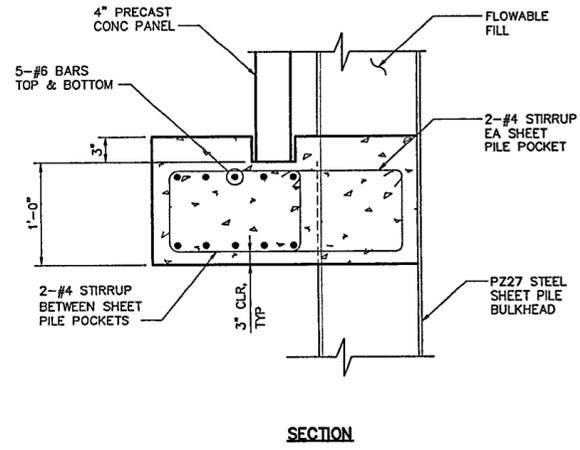


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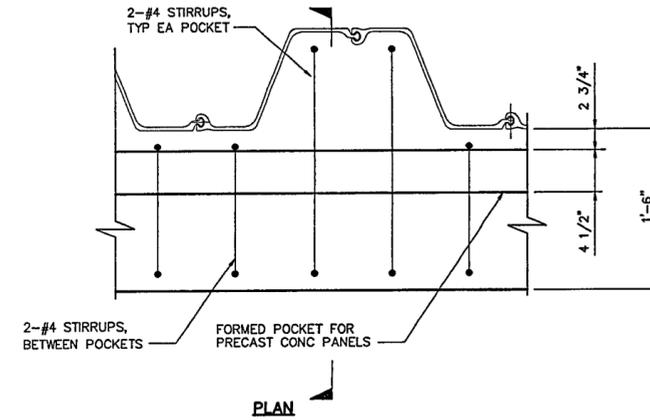


PLAN

1 PRECAST ATTACHMENT TO BULKHEAD DETAIL
MC516 1 1/2"=1'-0"

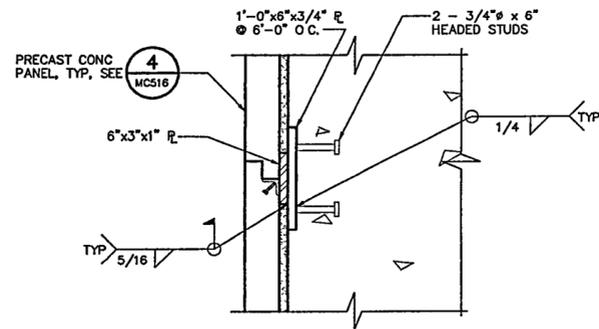


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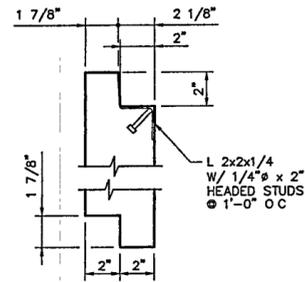


PLAN

2 PRECAST WALL PANEL FOOTING DETAIL
MC516 1 1/2"=1'-0"



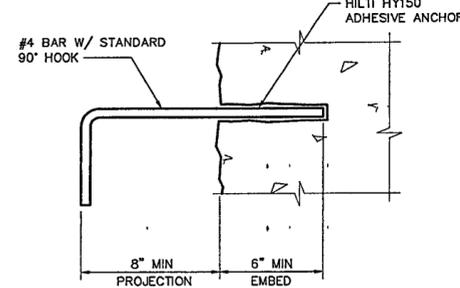
3 PRECAST ATTACHMENT TO CONCRETE WALL DETAIL
MC516 1 1/2"=1'-0"



NOTES

1. PRECAST PANEL DIMENSIONS AND FRONT FACE FINISH TO MATCH PRECAST PANELS AT LIBRARY BUILDING.
2. BOTTOM OF BOTTOM PRECAST SECTION THAT IS TO SIT ON FOOTING SHALL BE CAST WITHOUT NOTCH
3. TOP OF TOP PRECAST AT CONCRETE CAP SHALL BE CAST WITHOUT NOTCH HAVING THE 2x2x1/4 ANGLE WITH 1/4" x 2" HEADED STUDS CAST INTO TOP INSIDE CORNER

4 PRECAST PANEL DETAIL
MC516 3"=1'-0"



NOTE
SPACE ROWS OF ADHESIVE ANCHORED DOWELS AT 2'-0" VERTICALLY.

5 PRECAST PANEL DETAIL
MC516 3"=1'-0"

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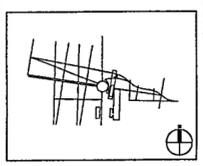
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Signage Design

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03 100% Site Package 2 CD	09/27/02
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01 60% Site Package 2 CD	06/28/02
Issue	Date



Job No 4813

Scale AS SHOWN

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Amphitheater Wall
Details

Sheet No.

MC516

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TERRACE BENT CAP STEEL PIPE PILE SCHEDULE

PILE LOCATION	PILE CUTOFF EL	ESTIMATED PILE TIP EL	BID LENGTH (VLF)	ACTUAL PILE TIP EL	PROVIDED PILE LENGTH (VLF)
*A8	241.59	217.6	24		
B8	237.84	212.8	25		
B1-8	235.00	209.0	26		
C8	230.52	206.5	24		
D8	230.52	204.5	26		
A9	241.59	217.6	24		
B9	236.59	212.6	24		
C9	230.52	206.5	24		
D9	230.52	204.5	26		
A10	241.59	217.6	24		
B10	236.59	212.6	24		
C10	230.52	206.5	24		
*D10	230.52	204.5	26		
A11	241.59	217.6	24		
B11	236.59	212.6	24		
C11	230.52	206.5	24		
D11	230.52	204.5	26		
*A12	241.59	217.6	24		
B12	236.59	212.6	24		
C12	230.52	206.5	24		
D12	230.52	204.5	26		
A13	241.59	217.6	24		
B13	236.59	212.6	24		
C13	230.52	206.5	24		
D13	230.52	204.5	26		
A14	241.59	217.6	24		
B14	236.59	212.6	24		
C14	230.52	206.5	24		
*D14	230.52	204.5	26		
A15	241.59	217.6	24		
B15	236.59	212.6	24		
C15	230.52	206.5	24		
D15	230.52	204.5	26		
*A16	241.59	217.6	24		
B16	236.59	212.6	24		
C16	230.52	206.5	24		
D16	230.52	204.5	26		
A17	241.59	217.6	24		
B17	236.59	212.6	24		
C17	230.52	206.5	24		
D17	230.52	204.5	26		
A18	241.59	217.6	24		
B18	236.59	212.6	24		
C18	230.52	206.5	24		
*D18	230.52	204.5	26		
A19	241.59	217.6	24		
B19	236.59	212.6	24		
C19	230.52	206.5	24		
D19	230.52	204.5	26		
*A20	241.59	217.6	24		
B20	236.59	212.6	24		
C20	230.52	206.5	24		
D20	230.52	204.5	26		
*A21	241.59	217.6	24		
B21	236.59	212.6	24		
C21	230.52	206.5	24		
D21	230.52	204.5	26		
A22	241.59	217.6	24		
B22	236.59	212.6	24		
C22	230.52	206.5	24		
D22	230.52	204.5	26		
A23	241.59	217.6	24		
B23	236.59	212.6	24		
C23	230.52	206.5	24		
*D23	230.52	204.5	26		
A24	241.59	217.6	24		
B24	236.59	212.6	24		
C24	230.52	206.5	24		
D24	230.52	204.5	26		
*A25	241.59	217.6	24		
B25	236.59	212.6	24		
C25	230.52	206.5	24		
D25	230.52	204.5	26		

AMPHITHEATER DEAD MAN HP PILE SCHEDULE

PILE LOCATION	PILE CUTOFF EL	ESTIMATED PILE TIP EL	BID LENGTH (VLF)	ACTUAL PILE TIP EL	PROVIDED PILE LENGTH (VLF)
E51	266.2	230.0	40.4		
E52	266.2	230.0	40.4		
E53	266.2	230.0	40.4		
E54	264.2	230.0	38.2		
E55	264.2	230.0	38.2		
E56	264.2	230.0	38.2		
F51	266.5	230.0	37.6		
F52	266.5	230.0	37.6		
F53	266.5	230.0	37.6		
F54	264.5	230.0	35.6		
F55	264.5	230.0	35.6		
F56	264.5	230.0	35.6		

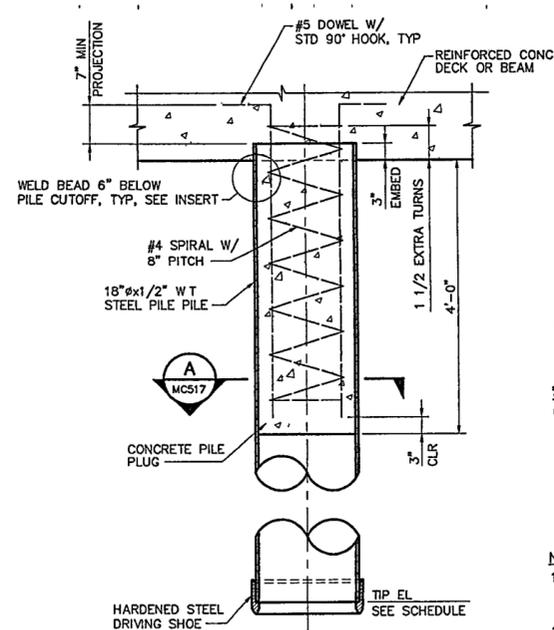
STEEL KING PILE SCHEDULE

PILE LOCATION	PILE CUTOFF EL	ESTIMATED PILE TIP EL	BID LENGTH (VLF)	ACTUAL PILE TIP EL	PROVIDED PILE LENGTH (VLF)
KP1	245.5	210.5	35		
KP2	245.5	210.5	35		
KP3	245.5	210.5	35		
KP4	245.5	210.5	35		
KP5	245.5	210.5	35		
KP6	245.5	210.5	35		
KP7	245.5	210.5	35		
KP8	245.5	210.5	35		
KP9	245.5	210.5	35		
KP10	245.5	210.5	35		
KP11	245.5	210.5	35		
KP12	245.5	210.5	35		
KP13	245.5	210.5	35		
KP14	245.5	210.5	35		
KP15	245.5	210.5	35		
KP16	245.5	210.5	35		
KP17	245.5	210.5	35		
KP18	245.5	210.5	35		
KP19	245.5	210.5	35		
KP20	245.5	210.5	35		
KP21	245.5	210.5	35		
KP22	245.5	210.5	35		
KP23	245.5	210.5	35		
KP24	245.5	210.5	35		
KP25	245.5	210.5	35		
KP26	245.5	210.5	35		
KP27	245.5	210.5	35		
KP28	245.5	210.5	35		
KP29	245.5	210.5	35		
KP30	245.5	210.5	35		
KP31	245.5	210.5	35		
KP32	245.5	210.5	35		

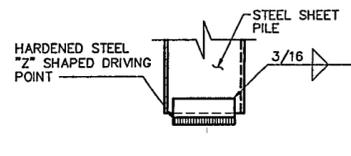
PEDESTRIAN BRIDGE STEEL PILE SCHEDULE

PILE LOCATION	PILE TYPE	PILE CUTOFF EL	ESTIMATED PILE TIP EL	BID LENGTH (VLF)	ACTUAL PILE TIP EL	PROVIDED PILE LENGTH (VLF)
PB1	HP 12x74	246.29	194.29	52		
PB2	HP 12x74	246.29	194.29	52		
PB3	18" PIPE	246.29	194.29	52		
PB4	18" PIPE	246.29	194.29	52		
PB5	18" PIPE	246.29	194.29	52		
PB6	18" PIPE	246.29	194.29	52		
*PB7	18" PIPE	246.29	194.29	52		
PB8	18" PIPE	246.29	194.29	52		
PB9	18" PIPE	246.29	194.29	52		
PB10	18" PIPE	246.29	194.29	52		
PB11	18" PIPE	246.29	194.29	52		
PB12	18" PIPE	246.29	194.29	52		
PB13	18" PIPE	246.29	194.29	52		
PB14	18" PIPE	246.29	194.29	52		
PB15	18" PIPE	246.29	194.29	52		
PB16	18" PIPE	246.29	194.29	52		
PB17	HP 12x74	246.29	194.29	52		
PB18	HP 12x74	246.29	194.29	52		
PB19	18" PIPE	246.29	194.29	52		
PB20	18" PIPE	246.29	194.29	52		
*PB21	18" PIPE	246.29	194.29	52		
PB22	18" PIPE	246.29	194.29	52		
PB23	18" PIPE	246.29	194.29	52		
PB24	18" PIPE	246.29	194.29	52		
PB25	18" PIPE	246.29	194.29	52		
PB26	HP 12x74	246.29	194.29	52		
PB27	HP 12x74	246.29	194.29	52		
PB28	18" PIPE	246.29	194.29	52		
PB29	18" PIPE	246.29	194.29	52		
*PB30	18" PIPE	246.29	194.29	52		
PB31	18" PIPE	246.29	194.29	52		
PB32	18" PIPE	246.29	194.29	52		
PB33	18" PIPE	246.29	194.29	52		
PB34	18" PIPE	246.29	194.29	52		
PB35	HP 12x74	246.29	194.29	52		
PB36	HP 12x74	246.29	194.29	52		
PB37	18" PIPE	246.29	194.29	52		
PB38	18" PIPE	246.29	194.29	52		
PB39	18" PIPE	246.29	194.29	52		
PB40	18" PIPE	246.29	194.29	52		
PB41	18" PIPE	246.29	194.29	52		
PB42	18" PIPE	246.29	194.29	52		

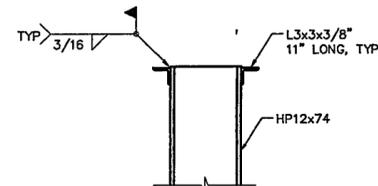
- NOTES**
- ALL PILING, 18" PIPE & HP PILES, SHALL BE DRIVEN WITH A HARDENED STEEL DRIVING SHOE.
 - * INDICATES INDICATOR PILES. BID LENGTH OF INDICATOR PILES DOES NOT INCLUDE ADDITIONAL 3 FT REQUIRED BY SPECIFICATIONS



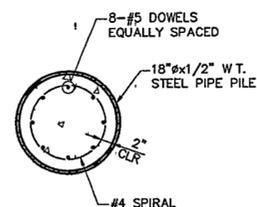
1 STEEL PIPE PILE DETAIL
1" = 1'-0"



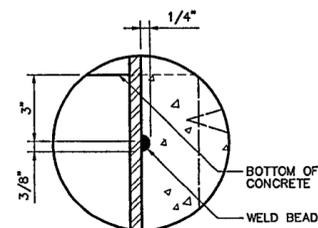
2 SHEET PILE HARDENED POINT DETAIL
1" = 1'-0"



3 ANCHORED HP DETAIL
1" = 1'-0"



A SECTION
1" = 1'-0"



INSERT

- NOTES**
- CONTRACTOR SHALL EMPLOY SPECIAL MEASURES TO ENSURE THERE IS A COMPETANT SEAL BETWEEN FORMWORK & PIPE PILE AT PEDESTRIAN BRIDGES
 - PIPE PILES AT PEDESTRIAN BRIDGES SHALL BE KEPT CLEAN OF CONCRETE AND CONCRETE STAINING

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Signage Design
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Seal

03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/29/02
Issue	Date

Job No. _____ 4813

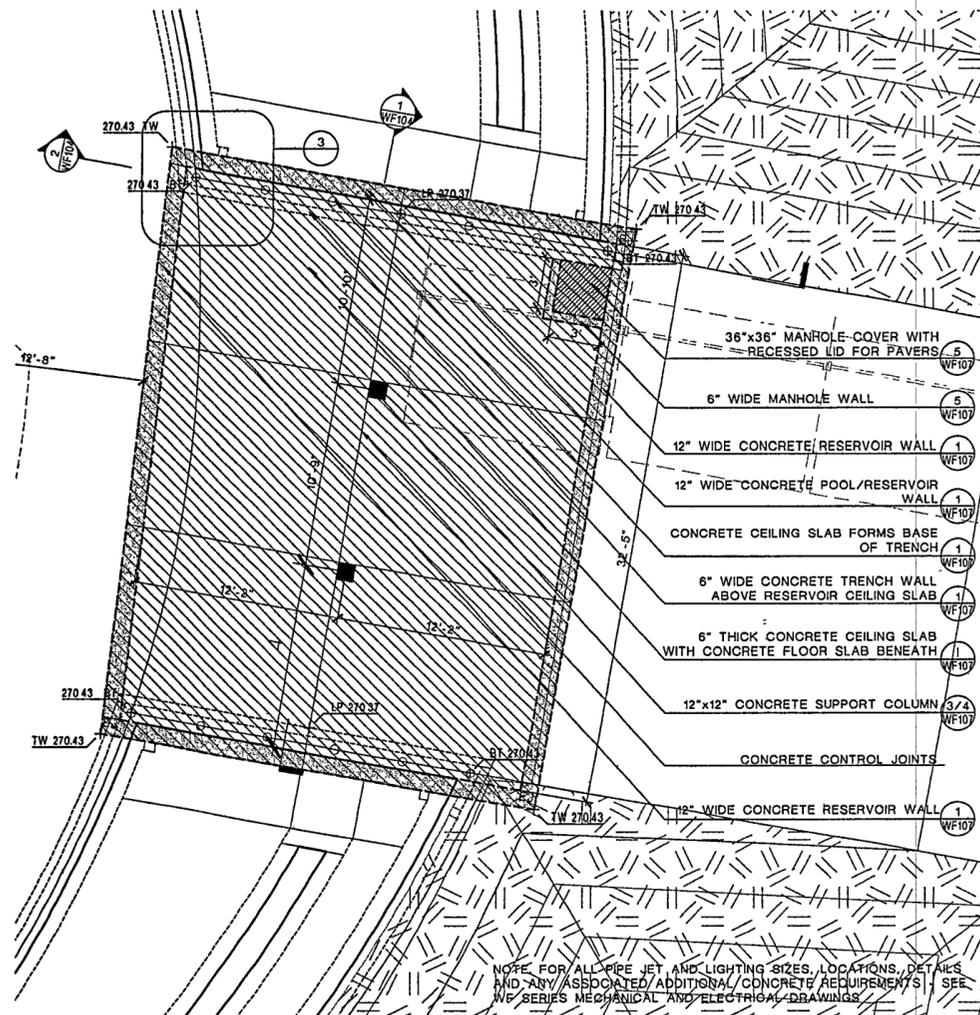
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Date _____

SEPTEMBER 27, 2002

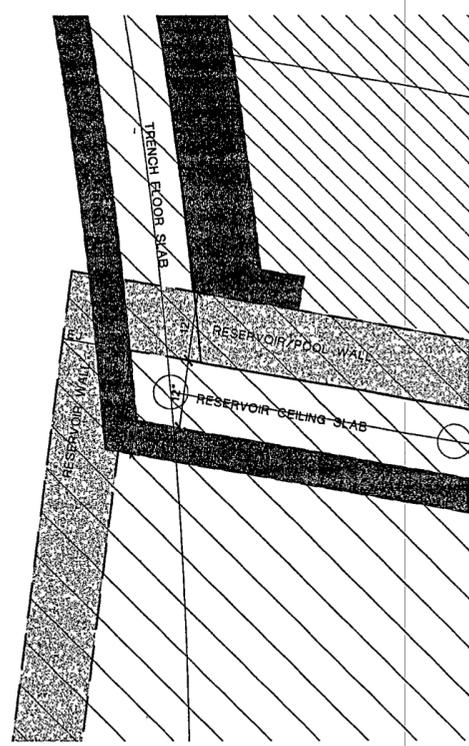
Title **SITE PACKAGE 2**
 100% CONSTRUCTION DOCUMENTS
 Pile Details
 and Schedules

Sheet No. **MC517**

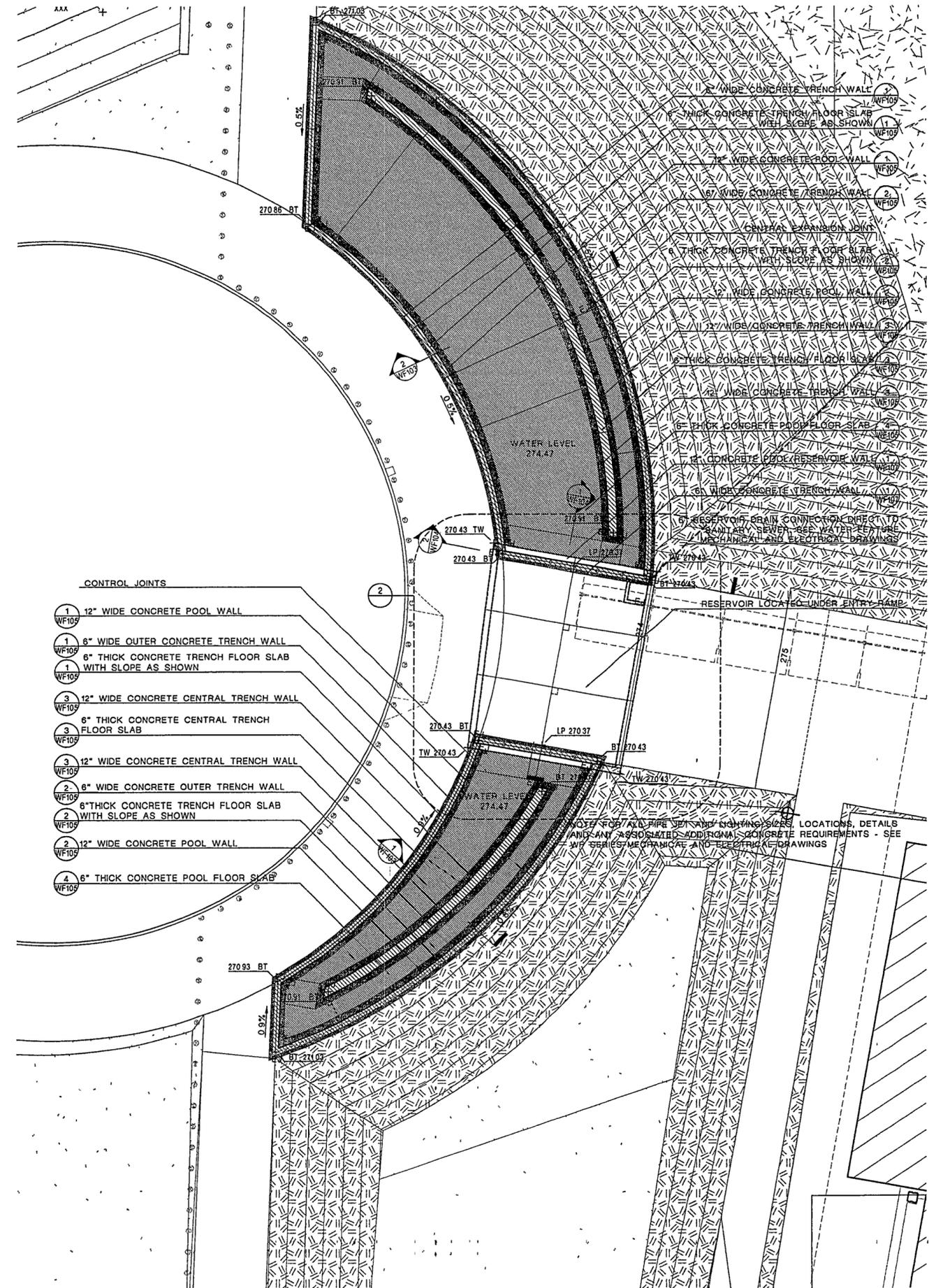


2 RESERVOIR CONCRETE LAYOUT PLAN
SCALE 1/4"=1'-0"

NOTE FOR ALL PIPE JET AND LIGHTING SIZES, LOCATIONS, DETAILS AND ANY ASSOCIATED/ADDITIONAL CONCRETE REQUIREMENTS - SEE WF SERIES MECHANICAL AND ELECTRICAL DRAWINGS



3 RESERVOIR AND TRENCH INTERSECTION PLAN
SCALE 1"=1'-0"



1 WATER FEATURE CONCRETE LAYOUT AND GRADING PLAN
SCALE 1/8"=1'-0"

NOTE FOR ALL PIPE JET AND LIGHTING SIZES, LOCATIONS, DETAILS AND ANY ASSOCIATED/ADDITIONAL CONCRETE REQUIREMENTS - SEE WF SERIES MECHANICAL AND ELECTRICAL DRAWINGS

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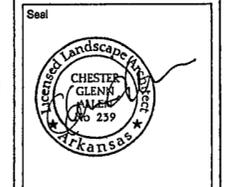
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1618 East Millbrook Road, Suite 160
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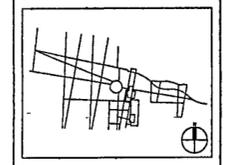
Fountain
DAN EUSER WATERARCHITECTURE INC
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Richmond Hill, Ontario L4C 3S2
CANADA
905 884-4176

Playground Design
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212 875 1332



Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 80% Site Package 2 CD	08/28/02

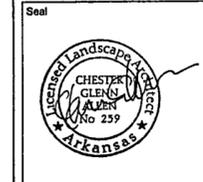


Job No. PPA 8908
HA CPC0101
Scale 1/8" = 1'-0"
Date SEPTEMBER 27, 2002
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
WATER FEATURE
CONCRETE
LAYOUT PLAN

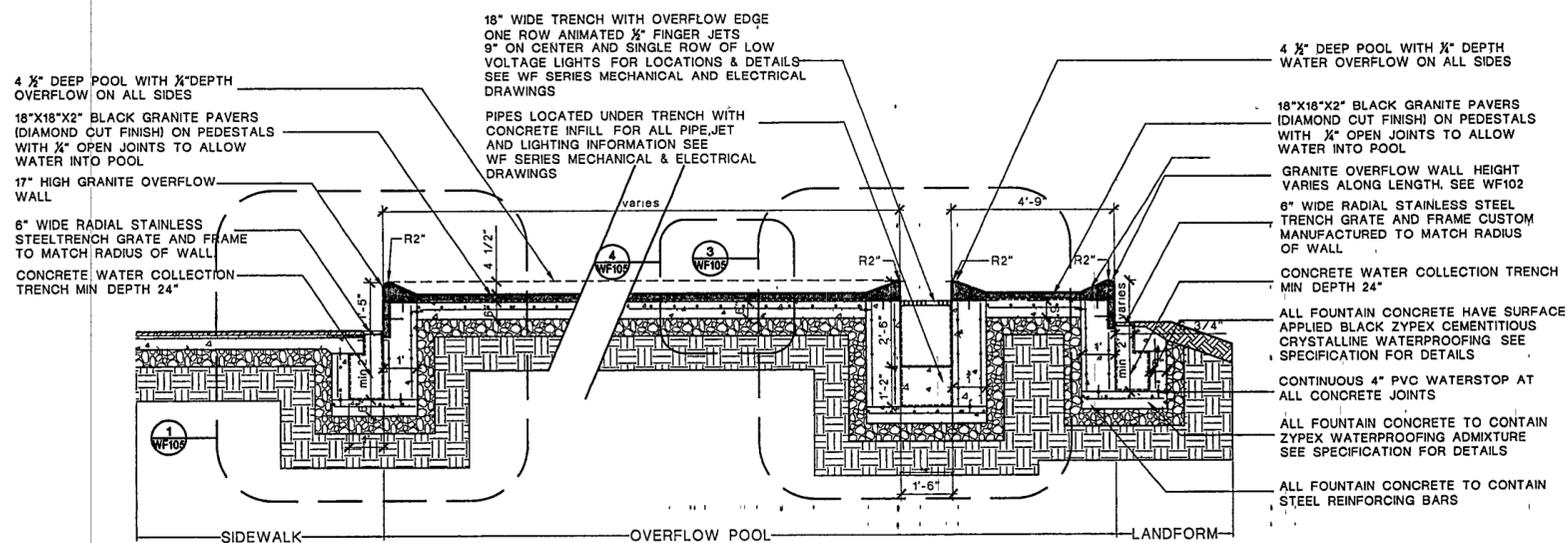
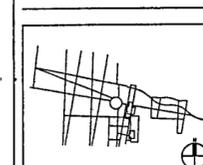
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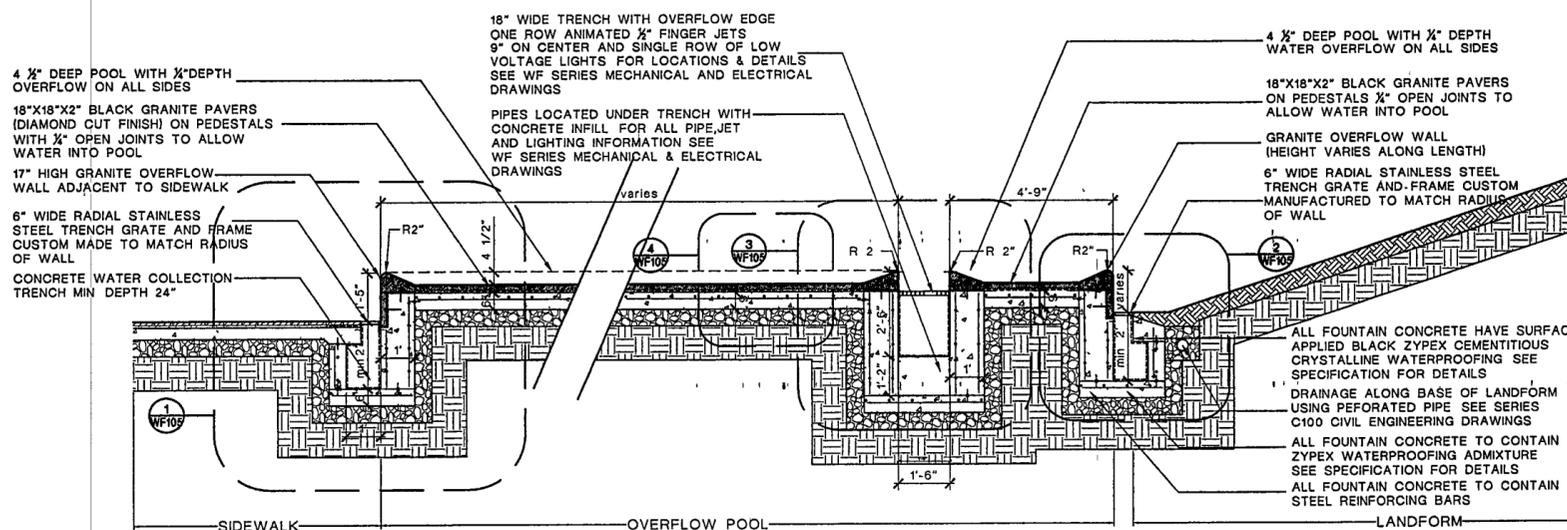
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03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	09/18/02
01 60% Site Package 2 CD	08/29/02



2 NORTHERN OVERFLOW POOL DETAIL
SCALE 1/2" = 1'-0"



1 SOUTHERN OVERFLOW POOL DETAIL
SCALE 1/2" = 1'-0"

4 1/2" DEEP POOL WITH 1/4" DEPTH OVERFLOW ON ALL SIDES

CONCRETE COLLECTION TRENCH WITH 6" WIDE STAINLESS STEEL GRATE AND FRAME (DEPTH OF TRENCH VARIES ALONG LENGTH)

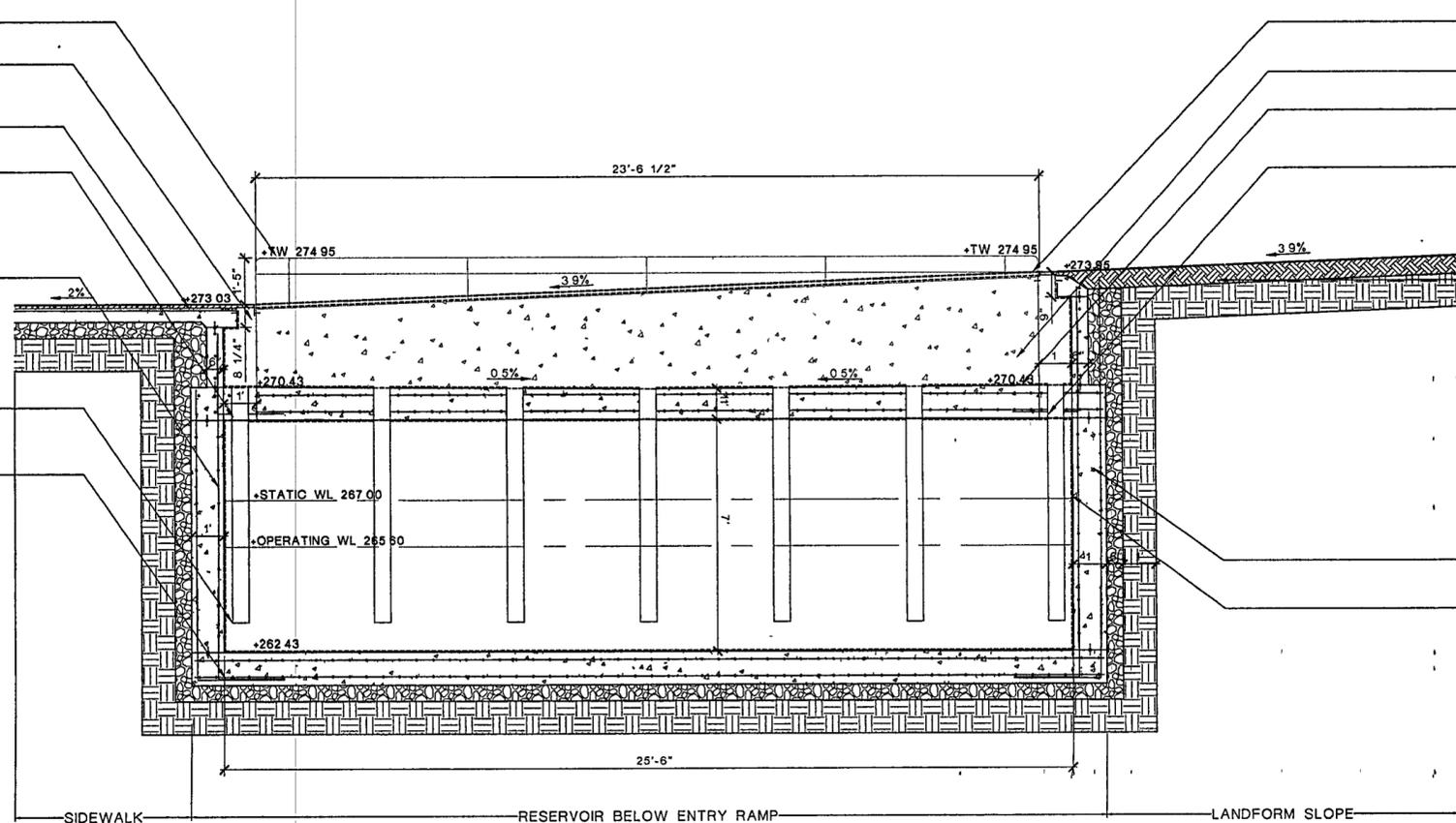
QUARZITE PAVER SIDEWALK FOR DETAIL SEE L500 SERIES

12" THICK CONCRETE CEILING SLAB WITH CAST IN PLACE PVC PIPES TO FEED WATER FROM COLLECTION TRENCH TO RESERVOIR FOR LOCATION AND DETAILS OF PIPE SEE WF SERIES MECHANICAL AND ELECTRICAL DRAWINGS

12" THICK CONCRETE RESERVOIR WALLS WITH STEEL REINFORCING

LENGTH OF PIPE EXTENDS TO BELOW OPERATING WATER LEVEL FOR RESERVOIR

12" THICK CONCRETE FLOOR SLAB WITH STEEL REINFORCING



COLLECTION TRENCH WITH 6" WIDE STAINLESS STEEL TRENCH GRATE ABOVE RESERVOIR CEILING

CONCRETE WALL OF OVERFLOW POOL

0.5% SLOPE ON RESERVOIR CEILING WITH CENTRAL LOW POINT TO FEED WATER THROUGH PIPES

PVC PIPE CAST IN TO RESERVOIR CEILING AT INTERVALS ALONG LENGTH OF COLLECTION TRENCH FOR PIPING LOCATION AND DETAILS SEE WF SERIES MECHANICAL AND ELECTRICAL DRAWINGS

LANDFORM SLOPE WITH GROUND COVER ADJACENT TO TRENCH

ALL FOUNTAIN CONCRETE TO CONTAIN ZYPEX WATERPROOFING ADMIXTURE SEE SPECIFICATION FOR DETAILS

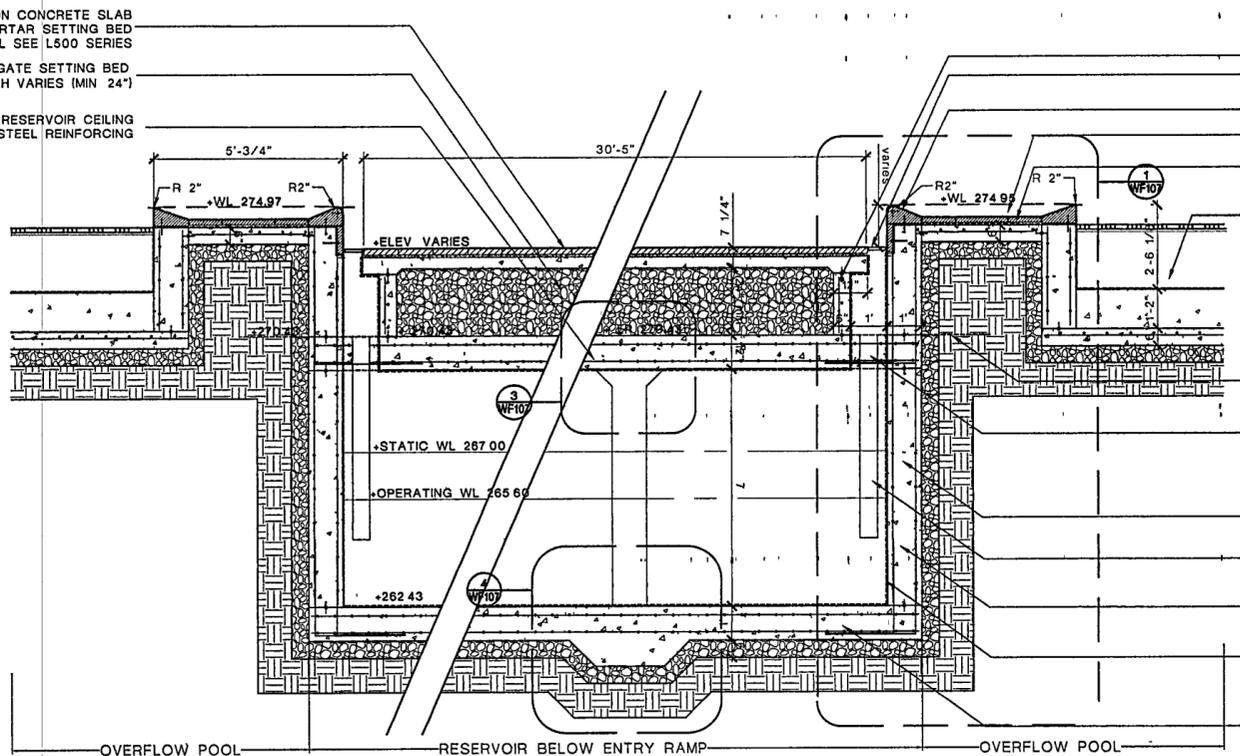
ALL FOUNTAIN CONCRETE HAVE SURFACE APPLIED BLACK ZYPEX CEMENTITIOUS CRYSTALLINE WATERPROOFING SEE SPECIFICATION FOR DETAILS

2 RESERVOIR AND COLLECTION TRENCH DETAIL
SCALE 1/2" = 1' - 0"

CONCRETE PAVERS ON CONCRETE SLAB WITH MORTAR SETTING BED FOR DETAIL SEE L500 SERIES

COMPACTED AGGREGATE SETTING BED DEPTH VARIES (MIN 24")

CONCRETE RESERVOIR CEILING WITH STEEL REINFORCING



6" WIDE CONCRETE WALL TO TRENCH

6" WIDE STAINLESS STEEL TRENCH GRATE AND FRAME

GRANITE OVERFLOW WALL (HEIGHT VARIES)

4 1/2" DEEP POOL WITH 1/4" DEPTH OVERFLOW

18"X18"X2" BLACK GRANITE PAVERS ON PEDESTALS 1/4" OPEN JOINTS TO ALLOW WATER INTO POOL

18" WIDE TRENCH WITH OVERFLOW EDGE ONE ROW ANIMATED 1/2" FINGER JETS 9" ON CENTER AND SINGLE ROW OF LOW VOLTAGE LIGHTS. FOR LOCATIONS & DETAILS SEE WF SERIES MECHANICAL AND ELECTRICAL DRAWINGS

LEVEL OF ADJACENT WATER TRENCH AT CORNER OF RESERVOIR BEYOND

PVC PIPE CAST IN PLACE IN RESERVOIR CEILING TO FEED WATER FROM TRENCH INTO RESERVOIR FOR LOCATION AND DETAILS SEE WF SERIES MECHANICAL AND ELECTRICAL DRAWINGS

12" WIDE CONCRETE RESERVOIR WALL WITH STEEL REINFORCING

LENGTH OF PIPE EXTENDS TO BELOW OPERATING WATER LEVEL IN RESERVOIR

ALL FOUNTAIN CONCRETE TO CONTAIN ZYPEX WATERPROOFING ADMIXTURE SEE SPECIFICATION FOR DETAILS

ALL FOUNTAIN CONCRETE HAVE SURFACE APPLIED BLACK ZYPEX CEMENTITIOUS CRYSTALLINE WATERPROOFING SEE SPECIFICATION FOR DETAILS

12" THICK CONCRETE FLOOR SLAB WITH STEEL REINFORCING

1 RESERVOIR AND COLLECTION TRENCH DETAIL
SCALE 1/2" = 1' - 0"

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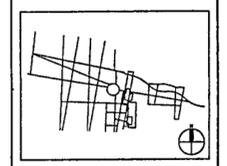
Fountain
DAN EUSER WATERARCHITECTURE INC
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Playground Design
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03 100% Site Package 2 CD	09/27/02
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01 80% Site Package 2 CD	08/29/02



Job No PPA 8908
HA CPC0101

Scale AS NOTED

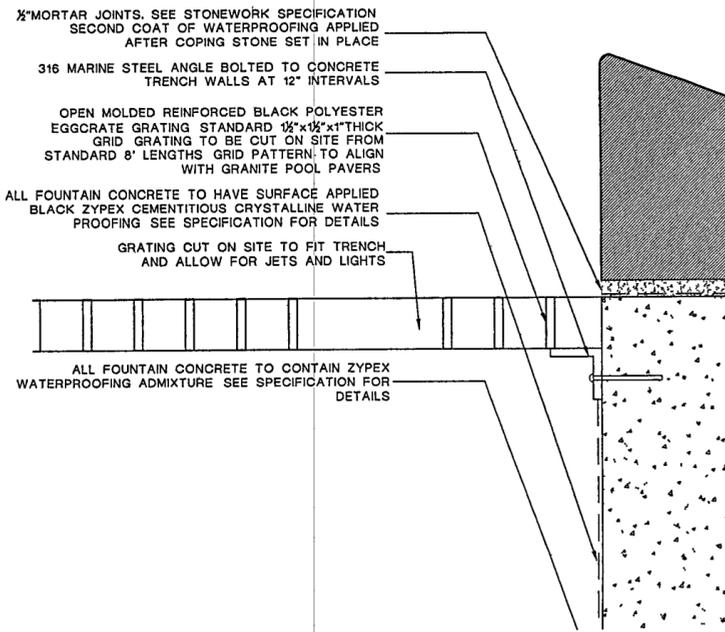
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
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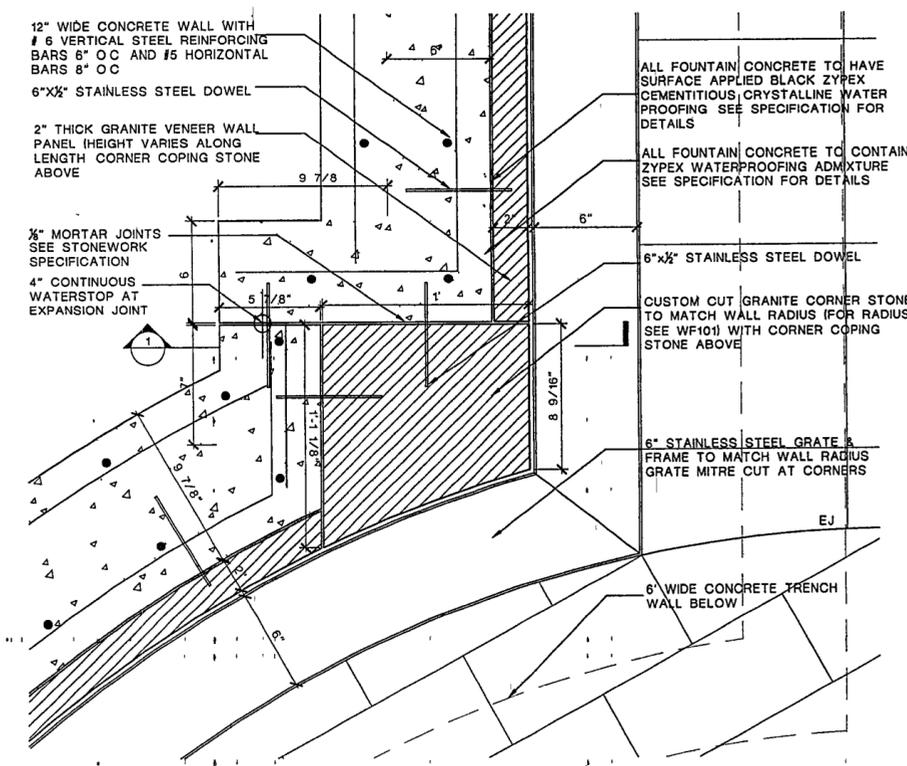
POOL RESERVOIR
DETAILED SECTIONS

Sheet No
WF104

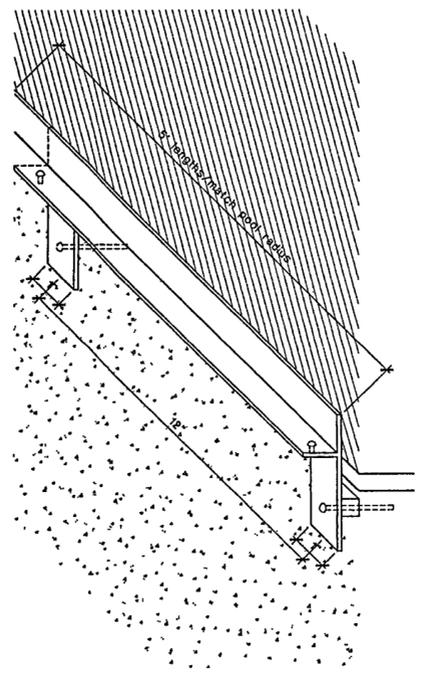
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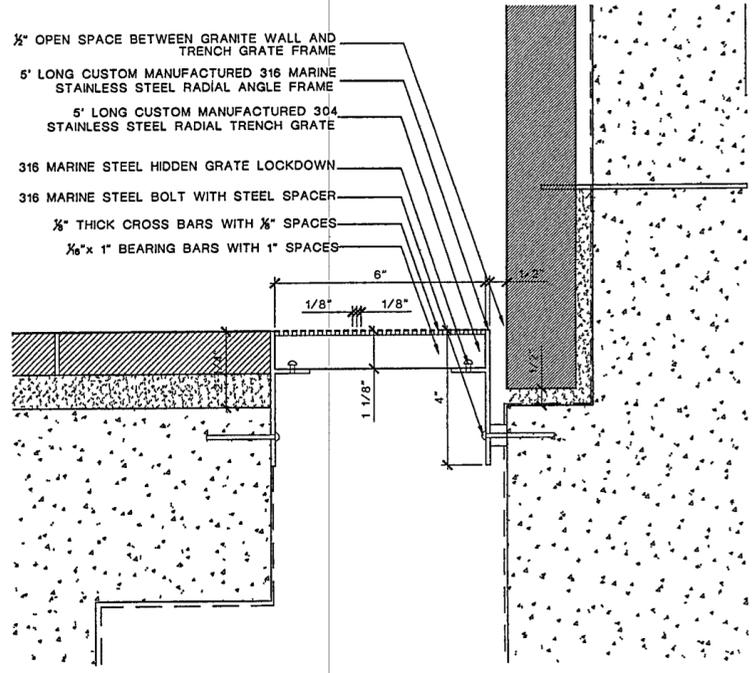
5 CENTRAL TRENCH GRATE DETAIL
SCALE 1/2"=1'



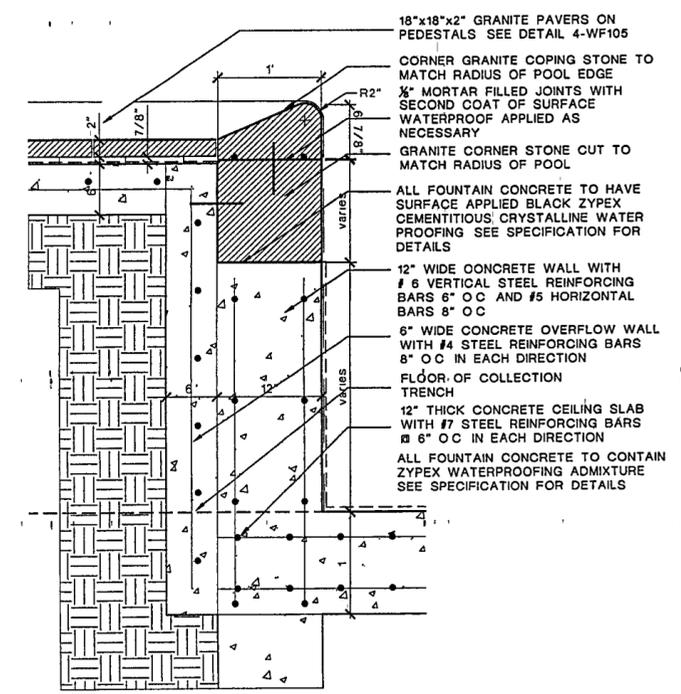
2 GRANITE CORNER STONE AND COPING DETAIL PLAN
SCALE 3/4"=1'-0"



4 STEEL ANGLE DETAIL
SCALE: NTS



3 COLLECTION TRENCH GRATE AND FRAME DETAIL
SCALE 1/2"=1'



1 GRANITE CORNER STONE AND COPING DETAIL
SCALE 1 1/2"=1'-0"

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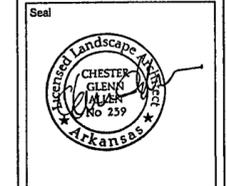
Electrical Engineer
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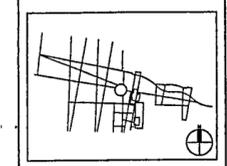
Fountain
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HA. CPC0101

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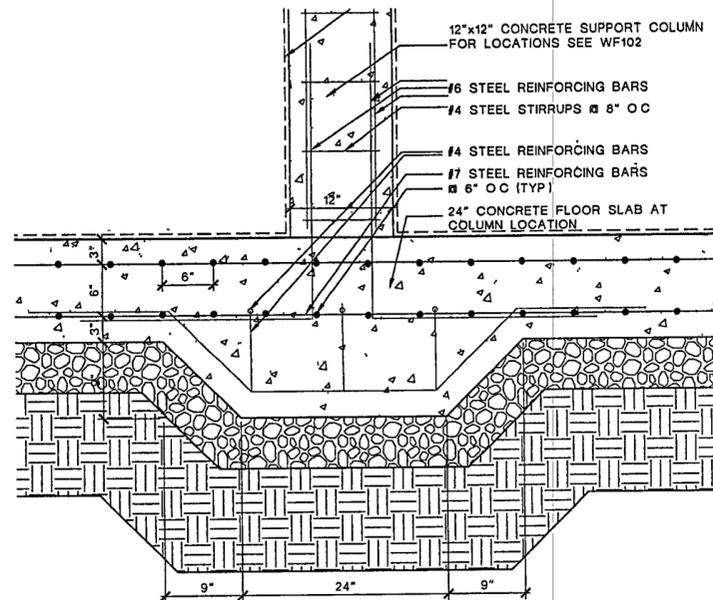
Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS

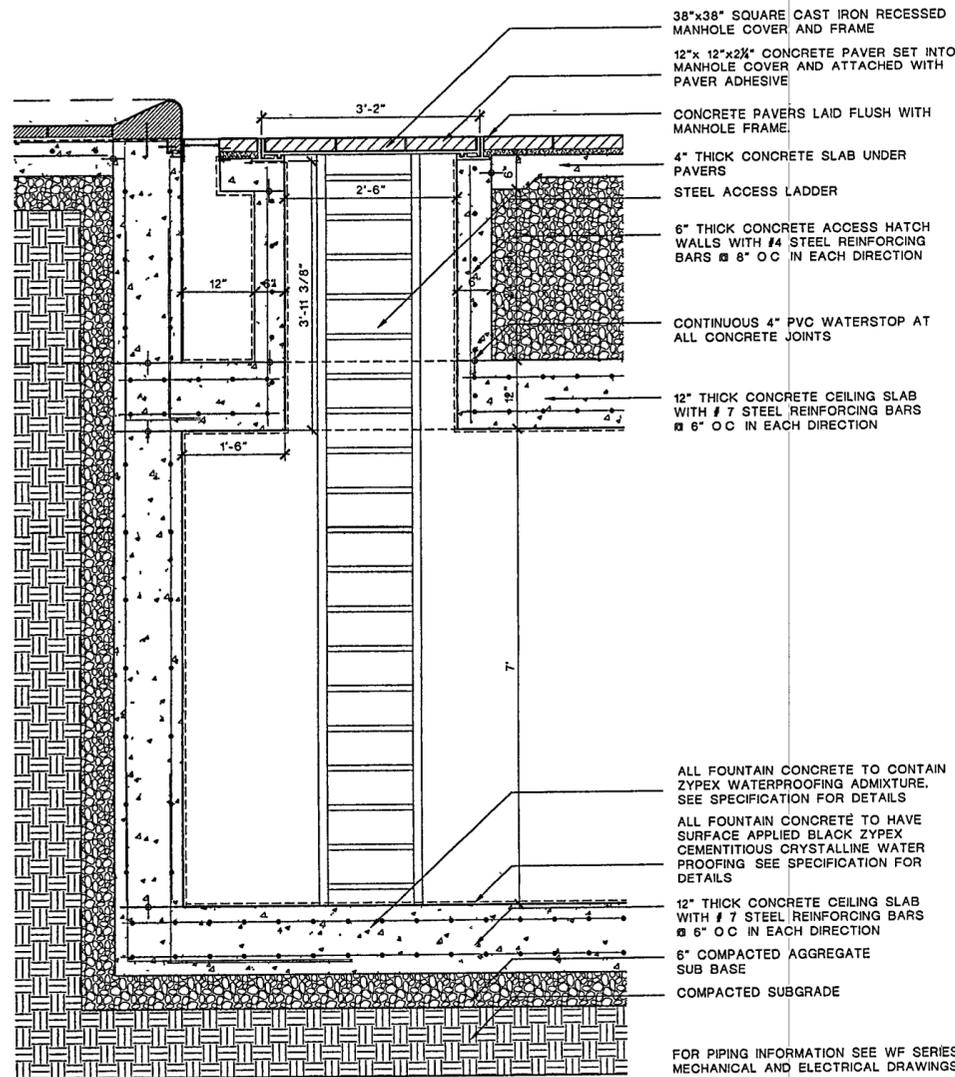
TRENCH AND GRANITE
DETAILS

Sheet No

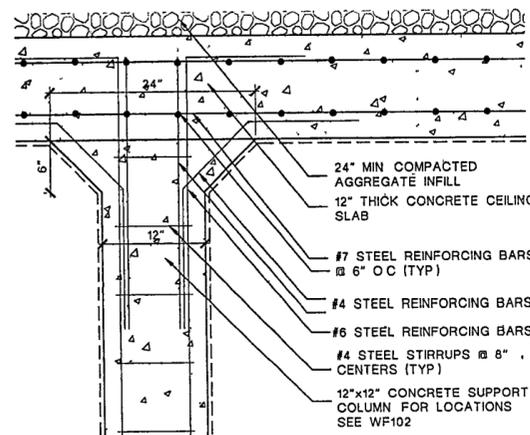
WF106



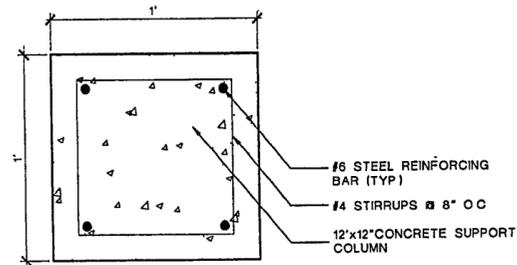
4 SUPPORT COLUMN AT FLOOR SLAB
SCALE 1"=1'-0"



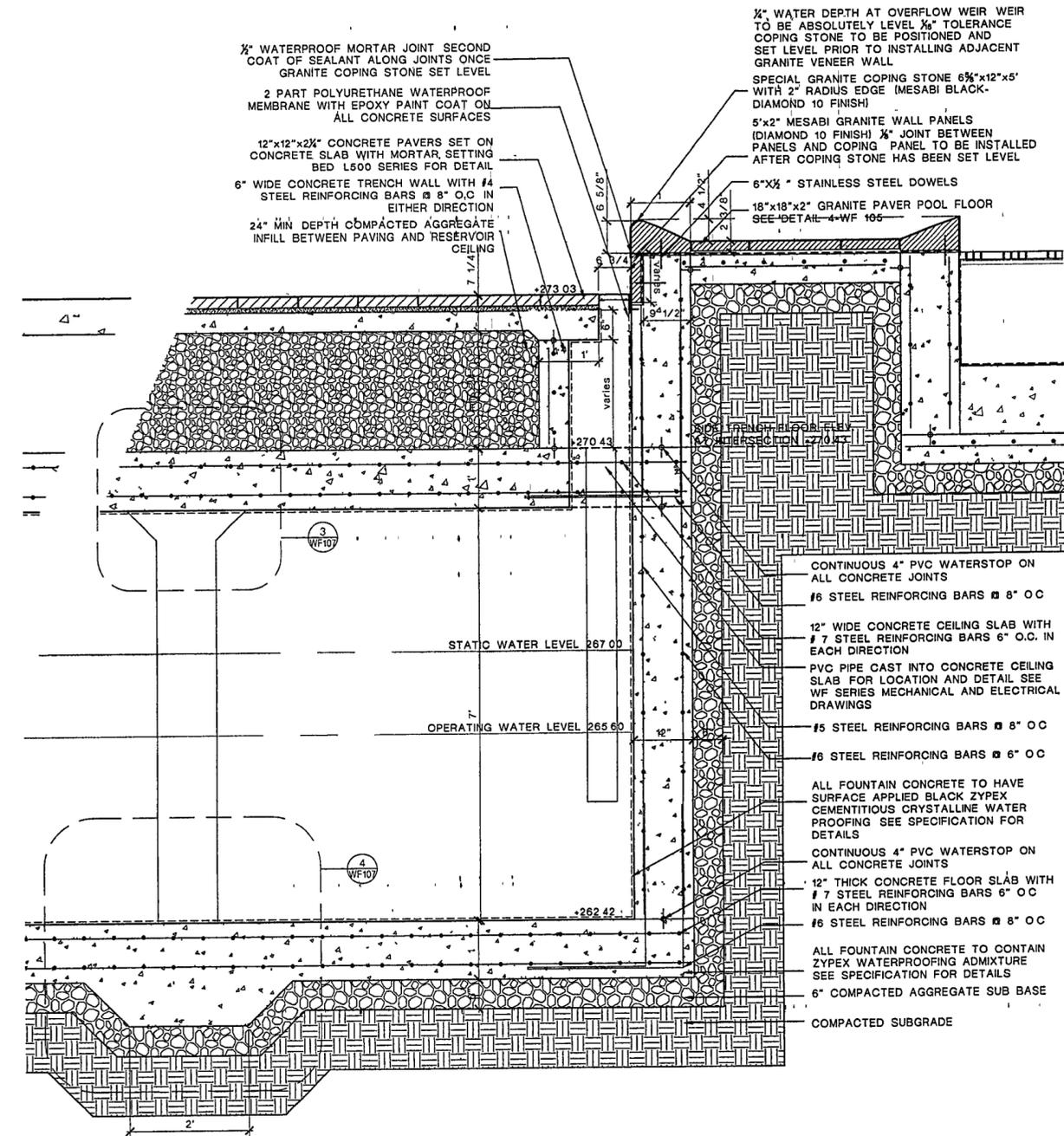
5 RESERVOIR MANHOLE ACCESS DETAIL
SCALE 1"=1'-0"



3 SUPPORT COLUMN AT CEILING SLAB
SCALE 1"=1'-0"



2 RESERVOIR SUPPORT COLUMN SECTION
SCALE 3"=1'-0"



1 RESERVOIR AND COLLECTION TRENCH DETAIL
SCALE 1"=1'-0"

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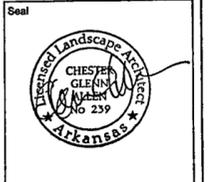
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919 781 4626

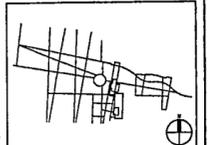
Fountain
DAN EUSER WATERARCHITECTURE INC
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
905 884 4178

Playground Design
PLAY SITE ARCHITECTURE
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978 263 1090

Signage Design
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01 100% Site Package 2 CD 09/27/02
Issue Date



Job No PPA 8908
HA CPC0101

Scale AS NOTED

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS

POOL RESERVOIR
DETAILS

Sheet No

WF107

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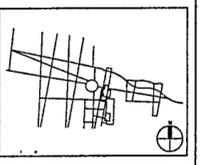
Fountain
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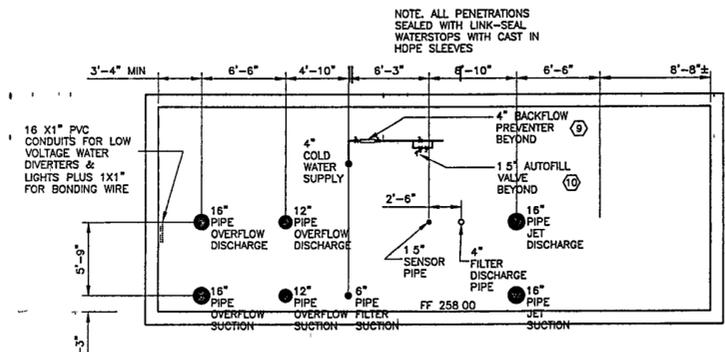
Issue	Date
03 100% Site Package 2 CD	09/27/02
02 90% Site Package 2 CD	08/16/02
01 60% Site Package 2 CD	06/29/02
Issue	Date

Job No	PPA 8908
HA	OPC0101
Scale	1" = 10'-0"
Date	SEPTEMBER 27, 2002
Title	SITE PACKAGE 2 100% CONSTRUCTION DOCUMENTS Water Feature M&E Site Plan
Sheet No	WF108

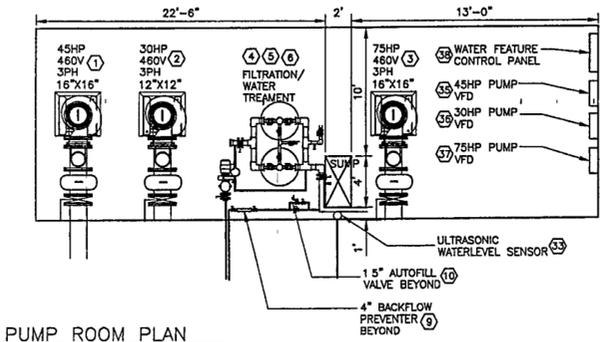


- WATER FEATURE NOTES BRIEF OVERVIEW SEE SPECIFICATIONS FOR DETAILS
- ALL WORK SHALL BE CONSTRUCTED AND INSTALLED BY QUALIFIED TRADES PERSONS HAVING A MINIMUM 10 YEARS EXPERIENCE IN THE CONSTRUCTION OF WATER FEATURES OF SIMILAR SIZE AND COMPLEXITY. ALL WORK TO MEET UNIFORM PLUMBING CODE, HEALTH AND SAFETY CODE, NEC, UL, ASTM, AND OTHER APPLICABLE NATIONAL AND LOCAL STANDARDS
 - ALL PIPING TO BE SCH 80 PVC COMPLETE WITH FITTINGS
 - ALL PIPE AND CONDUIT TO BE SELF DRAINING. SLOPE TO PUMP ROOM. NO TRAPS PERMITTED
 - ALL VALVES 3" AND LARGER TO BE WAFER STYLE EPOXY COATED BUTTERFLY VALVES. ALL VALVES 2" AND SMALLER TO BE 3 PIECE BRONZE BALL VALVES
 - ALL EQUIPMENT TO BE INSTALLED TO ALLOW FOR EASY SERVICING
 - PROVIDE DRAINS AT ALL LOW POINTS IN SYSTEM
 - WATER FEATURE RESERVOIR TO HAVE 4" WALL MOUNTED OVERFLOW TO SANITARY DRAIN
 - ALL PLUMBING WORK SHALL BE WATER TIGHT, NEATLY INSTALLED, SET ON 4" CONCRETE HOUSEKEEPING PADS IN PUMP ROOM
 - PROVIDE 3 SETS OF SHOP DRAWINGS FOR ALL EQUIPMENT, CUSTOM HARDWARE AND PANELS, AND ANY PROPOSED CHANGES TO WORK
 - PROVIDE 6 SETS OF OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT PROVIDE DAILY, WEEKLY, MONTHLY, YEARLY OPERATIONS MANUAL SPECIFICALLY WRITTEN FOR THESE WATER FEATURES DESCRIBING ALL WORK NECESSARY TO CORRECTLY MAINTAIN THESE FEATURES
 - COMPLETE WORK FOR AND INSTRUCT OWNERS PERSONNEL FOR 1 SPRING STARTUP AND 1 WINTER SHUTDOWN FOR EACH SYSTEM
 - ALL LIGHTING SHALL BE SUBMERSIBLE LIGHTING AND BE UL LISTED FOR UNDERWATER USE. EACH JET SHALL HAVE LIGHTS AT THE SOURCE. THE ANIMATED JETS SHALL HAVE 1 X 125W 120V WET DRY LIGHT EACH LIGHTS SHALL BE SET IN TRENCHES ANGLED 45 TO THE POOL. FLOOR LIGHTS SHALL HAVE MAXIMUM 9" OF EXPOSED CABLE TO SUBMERSIBLE JUNCTION BOXES
 - ALL METAL WITHIN 5' OF POOLS SHALL BE BONDED AS PER CODE
 - ALL ELECTRICAL WITHIN 10' OF POOLS SHALL BE GROUNDED AND GFI PROTECTED AS PER CODE
 - OVERFLOW POOLS, ARCHING JET, AND ANIMATED JET PUMPS SHALL BE CENTRIFUGAL DRY MOUNTED SUBMERSIBLE PUMP PROTECT PUMP WITH STAINLESS STEEL PUMPS. LOW PROFILE WITH MULTI-V BASKETS ANIMATED JET PUMP SHALL BE CONTROLLED WITH A VARIABLE FREQUENCY DRIVE PUMP SHALL BE INSTALLED WITH FLEXIBLE COUPLINGS TO PIPE
 - FILTER PUMP SHALL BE BRONZE CENTRIFUGAL PUMP WITH INTEGRAL BASKET STRAINER
 - WATER TREATMENT SHALL BE FLOSION FEED BROMINE SYSTEM WITH AUTOMATIC MONITORING AND CONTROL FOR BROMINE AND PH
 - WATER LEVEL IN SYSTEM SHALL BE AUTOMATICALLY CONTROLLED BY A REMOTE WALL MOUNTED ULTRASONIC LEVEL SENSOR FROM THE POOL. AN AUTOFILL BYPASS SYSTEM IN THE PUMP ROOM, AND INTEGRATED WITH A PLC CONTROLLER FOR CONTROL OF ENTIRE SYSTEM
 - THE WATER FILL SHALL HAVE A 3" MANUAL FILL TO THE POOL. FILL LINE SHALL HAVE A 1" BYPASS LINE WITH THROTTLING VALVE AND LOW VOLTAGE AUTOFILL VALVE TO ADD WATER. THE MAIN WATER SUPPLY SHALL BE PROTECTED BY A REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE, LINE SIZE.
 - THE WATER FEATURE CONTROL PANEL SHALL BE COMPLETE WITH PLC CONTROLLER TO CONTROL EACH PUMP VFD, FILTER PUMP, SUBMERSIBLE LIGHTS, AND WATER LEVEL CONTROL. SYSTEM SHALL BE CUSTOM FABRICATED BY A QUALIFIED WATER FEATURE CONTROL PANEL BUILDER. SUBMIT SHOP DRAWINGS FOR APPROVAL.
 - MAIN PUMPS BY ITT FLYGT OR ACCEPTED SUBSTITUTE. FILTER PUMPS & FILTERS BY PACFAB, HAYWARD, STARTEC, OR ACCEPTED SUBSTITUTE. FOUNTAIN EQUIPMENT SUCH AS DRAINS, WATER STOPS, SUBMERSIBLE JUNCTION BOXES, SUBMERSIBLE LIGHTS, INLET FITTINGS TO BE BY PEM FOUNTAINS, CRYSTAL FOUNTAIN, HYDREL LIGHTING, OR ACCEPTED SUBSTITUTE
 - WATER EFFECTS AND LIGHTING FOR ANIMATED JETS SHALL BE SUBJECT TO TESTING DURING THE DESIGN STAGE. THERE MAY BE MODIFICATIONS TO SYSTEMS BASED ON WATER EFFECTS ACHIEVED. THE ANIMATED JETS ARE INTENDED TO BE CLEAR STREAM 3/4" ORIFICE JETS SET IN RANDOM HEIGHT AND ANGLED ARCHES. TESTING WILL BE DONE ON THESE UNITS TO MAXIMIZE EFFECTS WHILE MINIMIZING OVERSPRAY. PROGRAMS FOR ANIMATED JETS WILL BE REQUIRED FOR 5 X HOUR SHOWS. JETS ARE TO HAVE CAPABILITY OF SWITCHING UP TO 5 TIMES PER SECOND WATER WILL BE DRAWN FROM THE CENTRAL RESERVOIR AND DISTRIBUTED TO THE JETS
 - THE BASE OF THE OVERFLOW POOLS WILL HAVE A STAINLESS GRATE AT THE BASE OF THE WALL WITH A MIN 2'-0" DEEP X 12" WIDE GUTTER TRENCH TO RESERVOIR
 - A WIND SENSOR CAPABLE OF MONITORING WIND SPEED AND DIRECTION SHALL BE PROVIDED TO INTERFACE WITH JET SYSTEM AND PLC. PROGRAMMING WILL BE REQUIRED WHEN WINDS REACH CERTAIN LIMIT, SAY 5MPH (TO BE TESTED DURING DESIGN PHASE), ARCHED JETS WILL NOT OPERATE
 - ALL PENETRATIONS INTO POOL SHALL BE WITH WATERSTOPS OR MEMBRANE CLAMPS PROVIDE LINK SEALS AT ALL PENETRATIONS INTO BUILDING
 - ACCESS TO RESERVOIR SHALL MEET REQUIREMENTS BY THE CONFINED SPACES AND HEALTH & SAFETY ACT

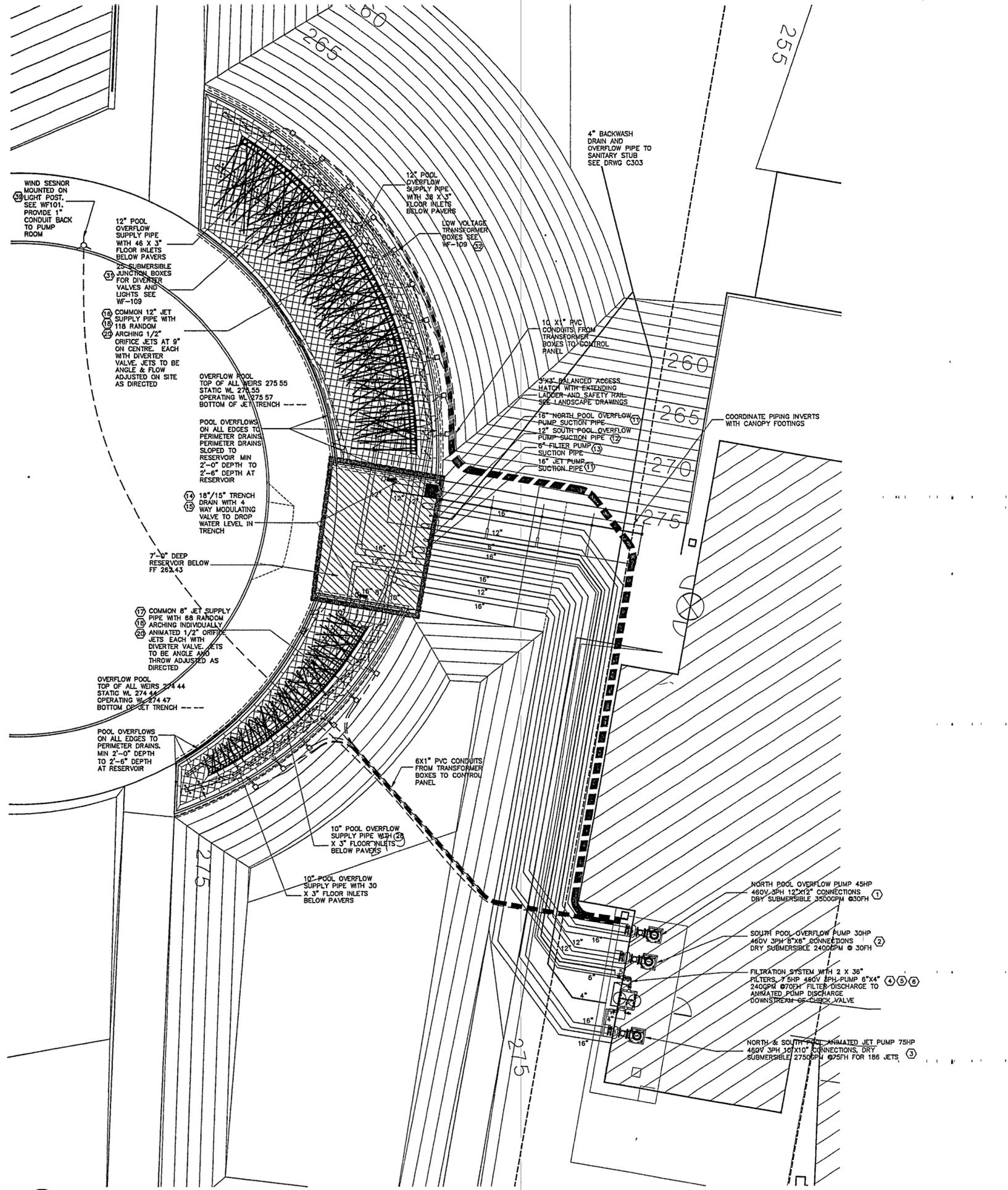
NOTE FOR DETAILS OF MECHANICAL EQUIPMENT SEE SPECIFICATIONS 13154 WATER FEATURE MECHANICAL
FOR DETAILS OF ELECTRICAL EQUIPMENT SEE SPECIFICATIONS 13155 WATER FEATURE ELECTRICAL



2 PUMP ROOM WEST WALL ELEVATION - OUTSIDE WALL LOOKING EAST
SCALE 3/16" = 1'-0"



3 PUMP ROOM PLAN
SCALE: 3/16" = 1'-0"



1 WATER FEATURE PLAN
SCALE: 1" = 10'-0"