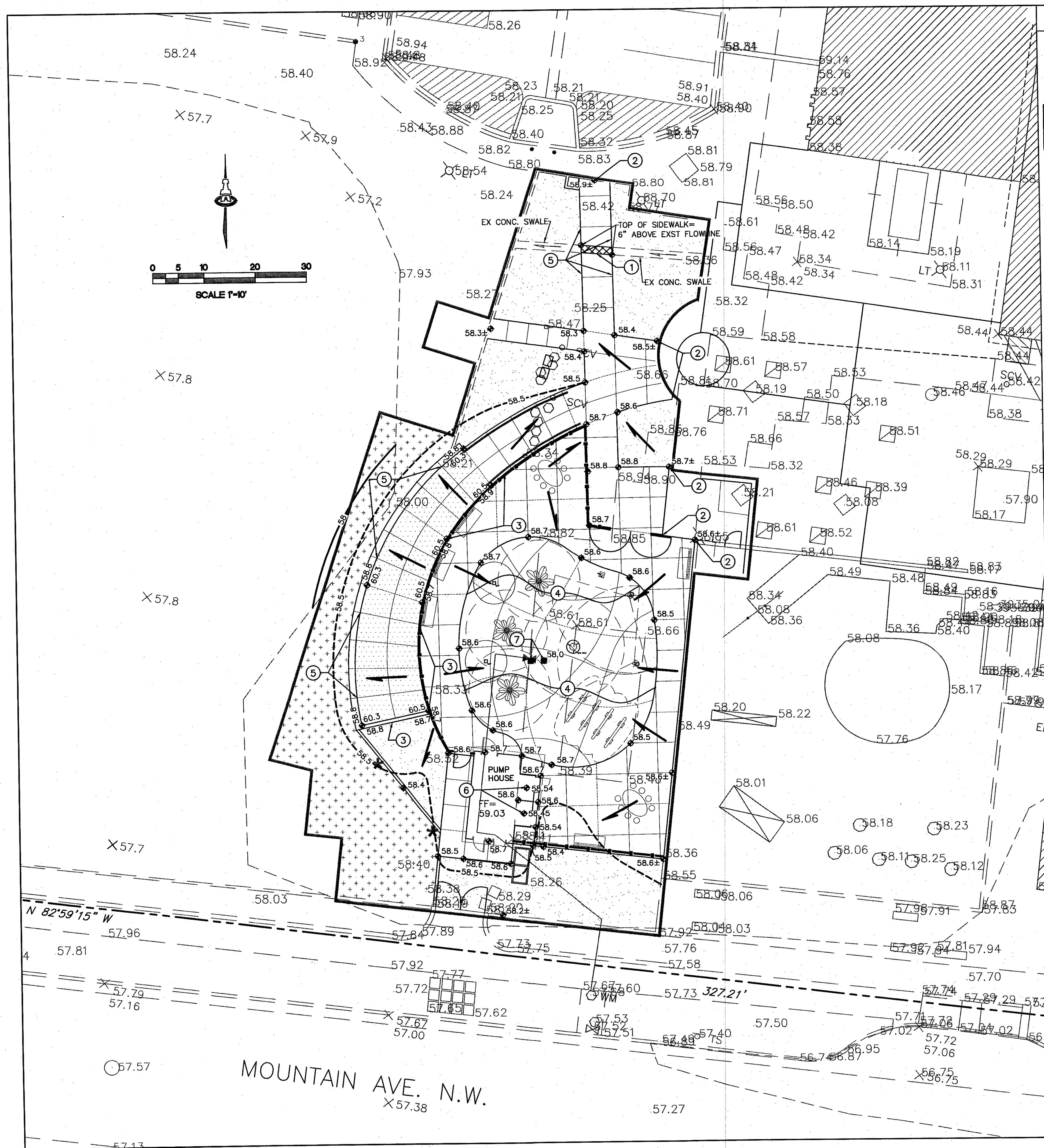


RECORD DRAWINGS

FINAL FOR CONSTRUCTION



GENERAL NOTES

- A. COORDINATE WORK WITH SITE PLAN, UTILITY PLAN, DEMOLITION PLAN, AND LANDSCAPE PLAN.
 - B. ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
 - C. ALL SUBGRADE EXCAVATION AND NON-STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D-1557.
- D. FINAL GRADES SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESS.
- E. UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS SHOWN ON PLAN. COMPACT WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE INDICATED.
 - F. MAXIMUM SLOPES SHALL BE 3:1. MINIMUM SLOPES SHALL BE 1% UNLESS OTHERWISE NOTED.
 - G. EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE, OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
 - H. OWNER WILL PROVIDE SOIL TESTING AND INSPECTION SERVICES DURING EARTHWORK OPERATIONS. CONTRACTOR SHALL ALLOW TESTING LABS TO INSPECT AND APPROVE COMPACTED SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS DONE. SHOULD COMPACTION TESTS INDICATE INADEQUATE DENSITY, CONTRACTOR SHALL PROVIDE ANY ADDITIONAL COMPACTION AND TESTING AT THE CONTRACTOR'S SOLE EXPENSE.
 - I. OWNER HAS ESTABLISHED PROPERTY BOUNDARY CORNERS. CONTRACTOR SHALL PROVIDE ALL OTHER CONSTRUCTION STAKING. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS AT CONTRACTOR'S SOLE EXPENSE.
 - J. THE ENVIRONMENTAL PROTECTION AGENCY AND THE CITY OF ALBUQUERQUE REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES (INCLUDING OTHER LAND-DISTURBING ACTIVITIES) DISTURB ONE ACRE OR MORE (BY OTHERS). A SWPPP MUST BE INCLUDED WITH THE CONTRACTOR'S SUBMITTAL FOR A ROUGH GRADING, GRADING, PAVING OR BUILDING PERMIT. THE SWPPP MUST BE IN PDF OR MS WORD FORMAT ON A CD.
 - K. ADJUST RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES, TYPICAL.
 - L. ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. WHERE NEW GRADES ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS SHALL BE SMOOTH AND LEVEL.
 - M. OWNER SHALL MAINTAIN EROSION PROTECTION ELEMENTS. OWNER SHALL INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.

○ KEYED NOTES

1. INSTALL SIDEWALK CULVERT PER COA STD DWG #2236. MATCH INVERT ELEVATIONS OF THE EXISTING CONCRETE SWALE.
2. MATCH EXISTING SIDEWALK ELEVATION. CAUTION!! THE SURVEY PROVIDED FOR THIS PLAN IS MORE THAN 10 YEARS OLD, AND SIGNIFICANT CHANGES TO THE SITE HAVE OCCURRED SINCE THAT TIME. IF EXISTING GRADES VARY FROM WHAT IS SHOWN, AND DRAINAGE WILL NOT OCCUR PER THE DESIGN, CONTACT THE ENGINEER IMMEDIATELY AT 268-8828.
3. RETAINING WALL PER ARCHITECTURAL PLANS.
4. WATER PLAY AREA. THIS AREA SLOPES DOWN FROM THE PERIMETER TO THE DRAINS AT 2%-5%. ELEVATIONS AT THE BASE OF INDIVIDUAL WATER FEATURES WILL BE DETERMINED PER THE MANUFACTURER'S SPECIFICATIONS.
5. TURNED DOWN SIDEWALK PER CONSTRUCTION PLANS.
6. SANITARY SEWER AREA DRAIN FOR SHOWER. SEE SHEET CU-101 FOR SEWER DETAILS.
7. WATER FEATURE DRAIN. SEE WATER FEATURE PLANS FOR DETAILS.

GENERAL SURVEY NOTE

IMPORTANT NOTE!

THE SURVEY PROVIDED FOR THIS GRADING PLAN IS MORE THAN 10 YEARS OLD, AND SIGNIFICANT CHANGES TO THE SITE HAVE OCCURRED SINCE THAT TIME. THE ARCHITECT AND ENGINEER HAVE BOTH PERFORMED SITE VISITS, AND TRIED TO REPRESENT EXISTING SITE CONDITIONS, BUT EXISTING CONDITIONS MAY VARY SIGNIFICANTLY FROM WHAT IS SHOWN. IF A CONFLICT ARISES WITH THE GRADING CONTACT THE ENGINEER AS SOON AS POSSIBLE AT 268-8828.

VICINITY MAP



LEGEND

-
- The diagram illustrates a cross-section of a road profile. It includes the following elements from top to bottom:
- EXISTING SPOT ELEVATION:** Indicated by a cross symbol (X) at an elevation of 57.7.
 - EXISTING CONTOUR:** Represented by a dashed line.
 - PROPOSED SPOT ELEVATION:** Indicated by a diamond symbol (◆) at an elevation of 58.4.
 - PROPOSED CONTOUR AT 1' INTERVAL:** Represented by a solid line at an elevation of 58.
 - PROPOSED CONTOUR AT 0.5' INTERVAL:** Represented by a dashed line at an elevation of 58.5.
 - PROPOSED SIDEWALK CULVERT:** Represented by a hatched rectangular area at the bottom of the profile.

[illegible]

WELLS PARK WATERPLAY

5/16/11 PROJECT #568503 May 16 2011

RECORD DRAWINGS [

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CALCULATIONS

CALCULATIONS: Wells Park - water play area :
Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 8805.182 SF = 0.2

HISTORIC FLOWS:

	Treatment SF	%
Area A	0	0%
Area B	0	0%
Area C	4338.1382	49%
Area D	4467.0438	51%
Total Area	8805.182	100%

DEVELOPED FLOWS:

	Treatment SF	%
Area A	0	0%
Area B	0	0%
Area C	2893	33%
Area D	5912	67%
Total Area	8805.182	100%

EXCESS PRECIP: Precip. Zone 2

E_A = 0.53
E_B = 0.78
E_C = 1.13
E_D = 2.12

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)
Weighted E = $\frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$

Historic E = 1.63 in. Developed E = 1.79 in.

On-Site Volume of Runoff: V₃₆₀ = $\frac{E \cdot A}{12}$

Historic V₃₆₀ = 1198 CF Developed V₃₆₀ = 1317 CF

On-Site Peak Discharge Rate: Q_p = $\frac{Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D}{43,560}$

For Precipitation Zone 2

Q_{pA} = 1.56 Q_{pC} = 3.14
Q_{pB} = 2.28 Q_{pD} = 4.70

Historic Q_p = 0.8 CFS Developed Q_p = 0.8 CFS

The overall site consists of 0.202139164370983 acre(s) located in Zone 2 which is designated as properties D. The 100-year, 6-hour historic discharge is 0.8 cfs. The proposed developed discharge is 0.8 cfs.

PROJECT DATA

LEGAL DESCRIPTION: A PORTION OF MUNICIPAL ADDITION NO. 11, WELLS PARK COMMUNITY CENTER

SITE AREA: 0.202 AC.

FLOOD ZONE: THIS SITE IS OUTSIDE THE 100-YEAR FLOODPLAIN (ZONE X) PER FEMA FIRM MAP #35001C0332G DATED 09/28/09

ENGINEER: GENEVIEVE DONART
ISAACSON & ARFMAN, P.A.
128 MONROE ST NE, ABQ. NM 87108
PHONE: (505) 268-8828

SURVEYOR: VLADIMIR JIRIK
ALBUQUERQUE SURVEYING CO, INC.
2119 MENAUL NE
ALBUQUERQUE, NM 87107
PHONE: (505) 684-2036
SURVEY PERFORMED MARCH 1997

BENCHMARK: ELEVATIONS SHOWN ARE SLD 1929 ELEVATIONS BASED ON CITY OF ALBUQUERQUE BENCH MARK "12-J14A", ELEVATION =4957.76.

EXISTING CONDITIONS: THIS SITE IS PART OF THE EXISTING WELLS PARK. IT IS NORTH OF MOUNTAIN AVE, AND EAST OF THE GRASS FIELD, AND WEST OF THE PLAYGROUND. THE PROJECT AREA HAS AN EXISTING ABOVE-GROUND POOL WITH CONCRETE WALKS AND APRON SURROUNDING IT, AND A RAISED STAGE. (NOTE: THE POOL, STAGE, PREVIOUS IMPROVEMENTS TO THE COMMUNITY CENTER AND IT'S PATIO, AND A CONCRETE SWALE ACROSS THE NORTH PART OF THE STIE ARE NOT REFLECTED ON THE SURVEY.)

THIS SITE IS VERY FLAT. EXISTING FLOWS OF 0.8 CFS FROM THE AREA SHEET FLOW WEST TO THE GRASS FIELDS. A SMALL CONCRETE SWALE CONCENTRATES FLOWS FROM THE COMMUNITY CENTER PATIO, AND DIRECTS THEM TO THE FIELD.

PROPOSED CONDITIONS: THE ABOVE-GROUND POOL AND STAGE ARE TO BE REPLACED WITH A CONCRETE "WATER PLAY" AREA. THERE WILL BE SPRAY FEATURES, A PUMP HOUSE, AND ASSOCIATED WALKS, BENCHES, AND TABLES. THE STAGE WILL BE REBUILT AS AN ELEVATED SIDEWALK ALONG THE WESTERN EDGE OF THE WATER PLAY AREA.

THE PROPOSED CHANGES DO NOT SIGNIFICANTLY INCREASE THE AMOUNT OF WATER DISCHARGED FROM THE SITE. THE PROPOSED STORM WATER GENERATED IS 0.8 CFS. THE AREA CONTAINED IN THE WATER PLAY AREA DOES NOT DISCHARGE OFF THE SITE, BUT INSTEAD TO THE DRAINS THAT COLLECT WATER FROM THE SPRAYERS. THIS REDUCES THE DISCHARGE BY 0.3 CFS, SO THE AMOUNT THAT DRAINS TO THE GRASS IS 0.5 CFS.

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1827 CG-501.dwg May 16, 2011

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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

TITLE: WELLS PARK WATERPLAY
DRAINAGE CALCULATIONS

Design Review Committee

City Engineer Approval

Last Design Update

Mo. / Day / Yr.

Mo. / Day / Yr.

City Project No. 568503 Zone Map No. J-14-Z Sheet 5 of 18

Albuquerque
Building & Safety
MAY 27 2011
I.B.C.
Plan Check Section

AS BUILT INFORMATION

CONTRACTOR

WORK

STAMPED BY

DATE

ACCEPTANCE BY

DATE

FIELD CATCH BY

DATE

DRAWINGS

CORRECTED BY

DATE

MICRO-FILM INFORMATION

RECORDED BY

DATE

NO.

BENCH MARKS

BENCHMARK:

SURVEY INFORMATION

FIELD NOTES

NO.

BY

DATE

ENGINEERS SEAL

REMARKS

DESIGN

NO.

DATE

BY

DESIGNED BY RP DATE 5/16/11

DRAWN BY KP DATE 5/16/11

CHECKED BY MB/KR DATE 5/16/11

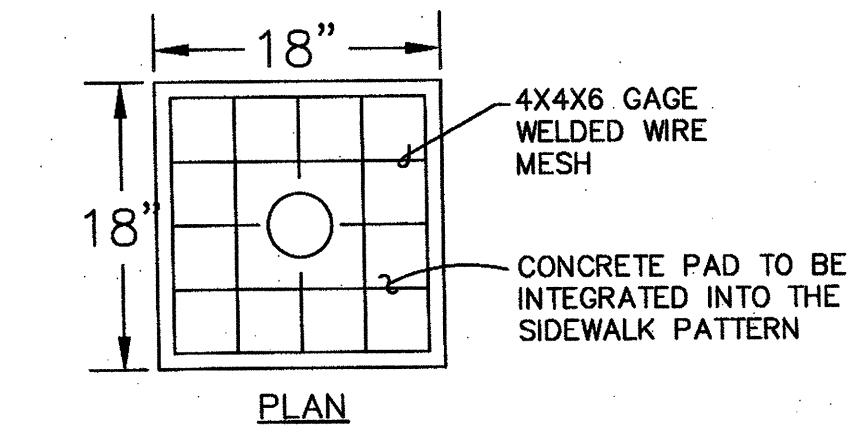
RECORD DRAWINGS

PROJECT #568503
May 16, 2011

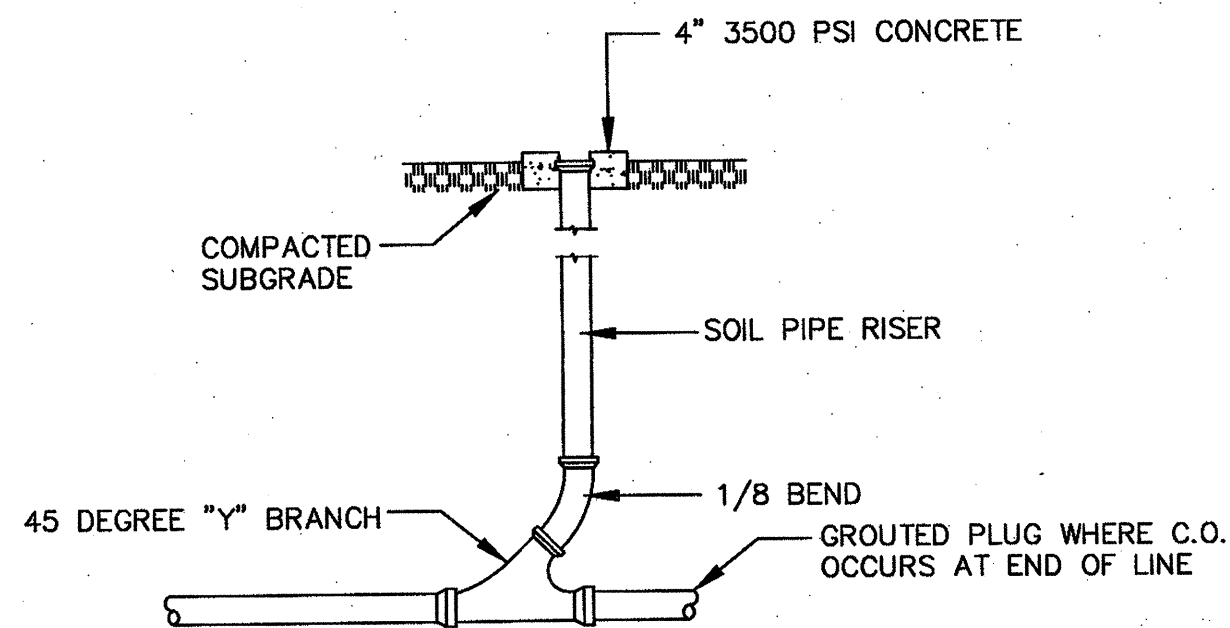
WELLS PARK WATERPLAY

FINAL FOR CONSTRUCTION X

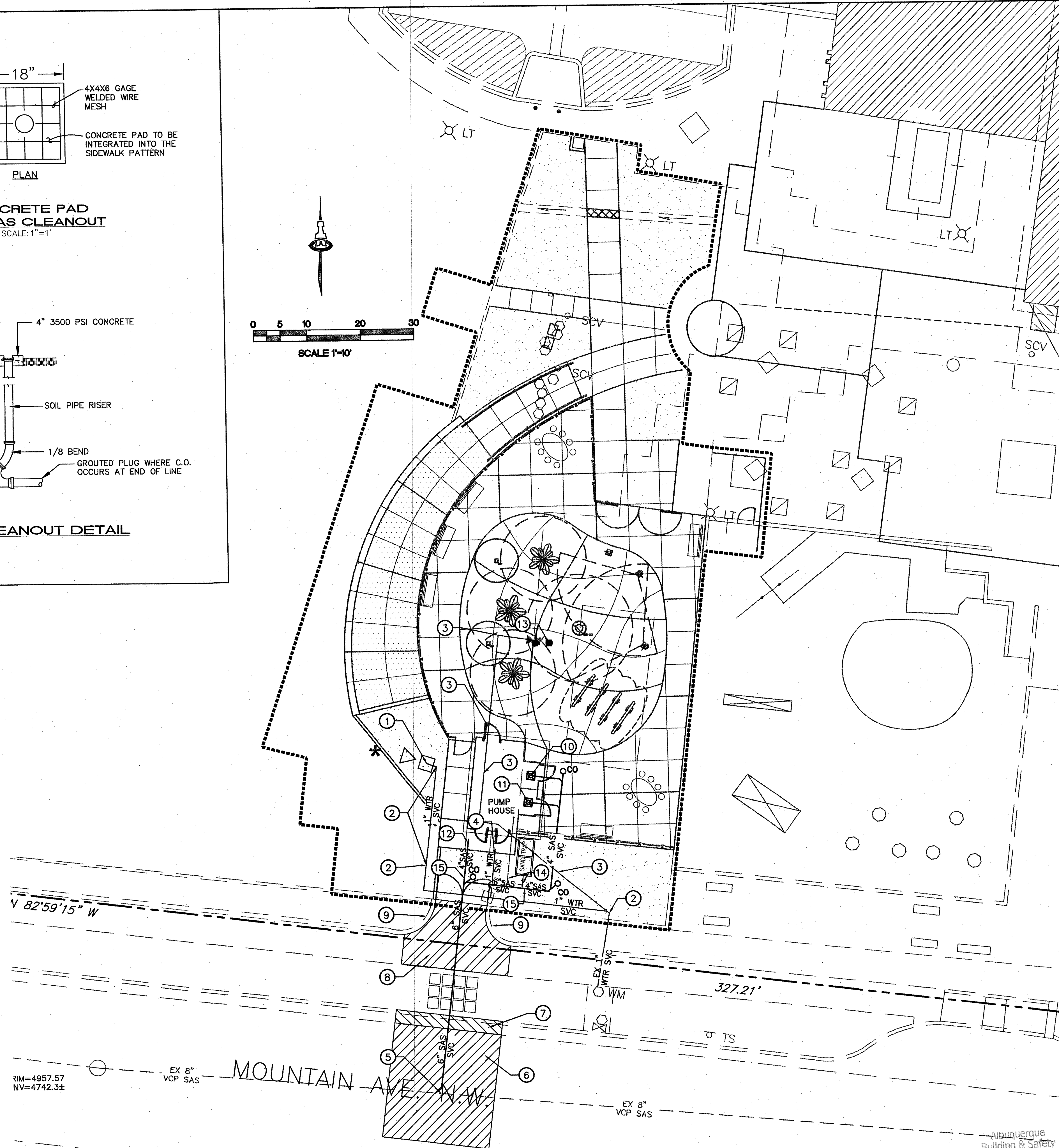
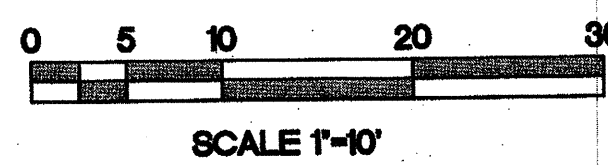
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CONCRETE PAD
FOR SAS CLEANOUT
SCALE: 1"=1'



SINGLE CLEANOUT DETAIL
NTS



KEYED NOTES

- EXISTING BACKFLOW PREVENTER AND IRRIGATION METER.
- TIE NEW 1" PRIVATE WATER SERVICE TO EXISTING 1" WATER SERVICE. TIE TO EXISTING IRRIGATION METER.
- REMOVE & DISPOSE OF EXISTING 1" WATER SERVICE NORTH OF NEW CONNECTION.
- STUB 1" PRIVATE WATER SERVICE TO WITHIN 5' OF PUMP HOUSE. PROVIDE SLEEVE UNDER SIDEWALK FOR WATER SERVICE.
- INSERT 8"x6" WYE IN EXISTING 8" VCP SAS. CONTRACTOR SHALL FIELD VERIFY DIRECTION OF FLOW. INSTALL 6" PRIVATE SANITARY SEWER SERVICE FROM 8" MAIN @ 2% MIN. SLOPE.
- SAWCUT, REMOVE & REPLACE EXISTING ASPHALT WITH 2" ADDITIONAL THICKNESS PER COA STD DWG #2465. (COLLECTOR)
- REMOVE & REPLACE STANDARD CURB & GUTTER PER COA STD DWG #2415A.
- REMOVE & REPLACE SIDEWALK PER COA STD DWG #2430.
- CONTRACTOR SHALL PROTECT EXISTING WALL DURING CONSTRUCTION.
- AREA DRAIN WITH P-TRAP UNDER SHOWER. GRATE EL=58.54.
- AREA DRAIN WITH P-TRAP UNDER SHOWER. GRATE EL=58.45.
- STUB 4" SEWER SERVICE TO WITHIN 5' OF PUMP HOUSE FOR FLOOR DRAIN.
- AREA DRAINS FOR WATER FEATURES. SEE WATER FEATURE PLANS FOR DETAILS. GRATE EL=58.0
- SEE MECHANICAL PLANS FOR SANITARY SEWER AND VENT LINE CONNECTION TO SAND PIT.
- INSTALL 6"x4" REDUCER ON SAS SERVICE LINE.

LEGEND

- EX 8" VCP SAS ——— EXISTING SAS
- EX 1" WTR SVC ——— EXISTING WATER SERVICE
- WM ——— EXISTING WATER METER
- 4" SAS SVC ——— PROPOSED SAS SERVICE
- CO ——— PROPOSED SAS CLEANOUT
- PROPOSED AREA DRAIN
- 1" WTR SVC ——— PROPOSED WATER SERVICE

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1827 CU-101.dwg May 16, 2011

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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

TITLE: WELLS PARK WATERPLAY
UTILITY PLAN

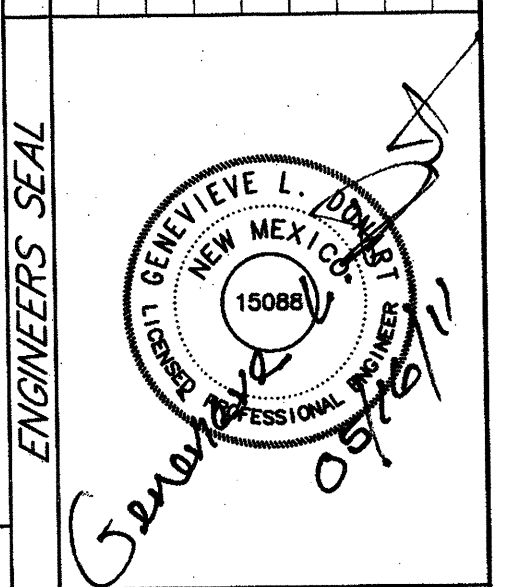
Design Review Committee	City Engineer Approval	Lead Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 568503 Zone Map No. J-14-Z Sheet 6 of 18

AS BUILT INFORMATION			
CONTRACTOR	DATE	DATE	DATE
WORK STARTED BY	DATE	DATE	DATE
FIELD ACCEPTANCE BY	DATE	DATE	DATE
FIELD CORRECTIONS BY	DATE	DATE	DATE
RECORDED BY	DATE	DATE	DATE
NO.	NO.	NO.	NO.

BENCH MARKS			
BENCHMARK	DATE	DATE	DATE

SURVEY INFORMATION			
FIELD NOTES	DATE	DATE	DATE
BY			
NO.			



ENGINEER'S SEAL			
REMARKS	BY	DATE	DATE
REVISIONS			
DESIGN			
NO.	DATE	DATE	DATE
DESIGNED BY	KP	5/16/11	5/16/11
DRAWN BY	KP	5/16/11	5/16/11
CHECKED BY	MB/KR	5/16/11	5/16/11

FINAL FOR CONSTRUCTION X

WELLS PARK WATERPLAY

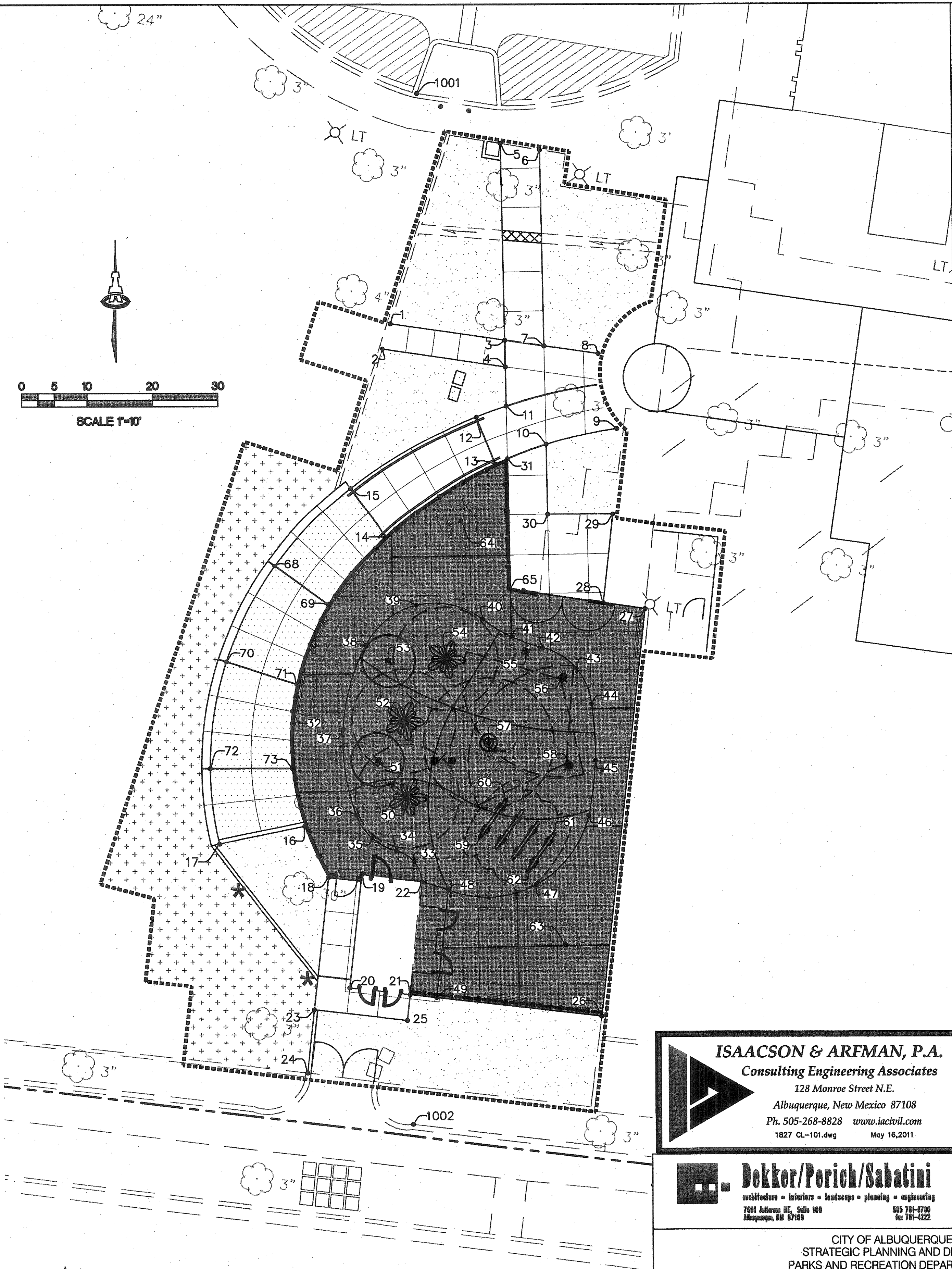
RECORD DRAWINGS

Point Table			
Point #	Northing	Easting	Description
1	171.37	338.45	TOP OF SIDEWALK
2	167.50	337.20	TOP OF SIDEWALK
3	168.81	355.95	TOP OF SIDEWALK
4	164.75	356.00	TOP OF SIDEWALK
5	198.96	355.51	TOP OF SIDEWALK
6	197.97	361.52	TOP OF SIDEWALK
7	167.93	361.96	TOP OF SIDEWALK
8	166.72	370.24	TOP OF SIDEWALK
9	155.30	372.99	TOP OF SIDEWALK
10	152.82	362.18	TOP OF SIDEWALK
11	158.72	356.09	TOP OF SIDEWALK
12	157.03	351.51	EDGE OF RAMP
13	149.81	354.36	EDGE OF RAMP
14	138.72	337.49	EDGE OF RAMP
15	146.08	332.12	EDGE OF RAMP
16	94.26	324.72	EDGE OF STAGE
17	91.47	311.69	EDGE OF STAGE
18	86.49	328.31	TOP OF SIDEWALK
19	86.87	333.39	CORNER OF BUILDING
20	69.65	331.42	CORNER OF BUILDING
21	68.59	340.69	CORNER OF BUILDING
22	85.81	342.66	CORNER OF BUILDING
23	66.24	326.00	TOP OF CONCRETE
24	56.53	324.89	TOP OF CONCRETE
25	64.62	340.24	TOP OF SIDEWALK
26	65.25	370.00	TOP OF SIDEWALK
27	127.73	377.09	TOP OF SIDEWALK
28	128.66	370.74	TOP OF SIDEWALK
29	142.10	372.28	TOP OF SIDEWALK
30	142.08	362.33	TOP OF SIDEWALK
31	150.62	356.21	TOP OF SIDEWALK
32	111.83	322.96	TOP OF SIDEWALK
33	88.76	341.45	TOP OF SIDEWALK
34	90.42	338.73	TOP OF SIDEWALK
35	92.41	334.97	TOP OF SIDEWALK
36	95.96	332.62	TOP OF SIDEWALK
37	109.06	330.70	TOP OF SIDEWALK
38	122.11	334.21	TOP OF SIDEWALK
39	128.28	342.06	TOP OF SIDEWALK
40	126.18	352.21	TOP OF SIDEWALK
41	123.51	356.59	TOP OF SIDEWALK
42	121.74	361.41	TOP OF SIDEWALK
43	118.49	366.51	TOP OF SIDEWALK
44	112.90	368.80	TOP OF SIDEWALK
45	104.35	369.33	TOP OF SIDEWALK
46	95.85	368.23	TOP OF SIDEWALK
47	85.29	360.12	TOP OF SIDEWALK
48	84.57	346.63	TOP OF SIDEWALK
49	68.13	344.75	TOP OF SIDEWALK
50	98.83	340.47	WATER FEATURE
51	104.40	335.94	WATER FEATURE
52	110.39	340.07	WATER FEATURE
53	119.73	337.75	WATER FEATURE
54	119.99	346.50	WATER FEATURE
55	121.09	358.82	WATER FEATURE
56	117.04	364.35	WATER FEATURE
57	107.04	353.01	WATER FEATURE
58	103.70	365.18	WATER FEATURE
59	92.68	351.65	WATER FEATURE
60	98.24	355.62	WATER FEATURE

Point Table			
Point #	Northing	Easting	Description
61	93.02	362.94	WATER FEATURE
62	87.45	358.98	WATER FEATURE
63	76.27	364.59	PICNIC TABLE
64	141.03	349.06	PICNIC TABLE
65	130.75	356.50	CORNER OF FENCE
68	134.31	320.44	EDGE OF STAGE
69	128.40	328.60	EDGE OF STAGE
70	119.52	312.94	EDGE OF STAGE
71	116.05	323.66	EDGE OF STAGE
72	103.14	310.37	EDGE OF STAGE
73	103.16	322.89	EDGE OF STAGE
1001	206.75	342.77	CONTROL POINT
1002	48.52	341.02	CONTROL POINT

NOTE:

THIS PLAN IS FOR HORIZONTAL (X,Y) CONTROL.
SEE GRADING & DRAINAGE PLAN FOR ALL
ELEVATIONS.



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1827 CL-101.dwg May 16, 2011

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Albuquerque, NM 87109

CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

TITLE: **WELLS PARK WATERPLAY
HORIZONTAL CONTROL PLAN**

Design Review Committee	City Engineer Approval

City Project No.	568503	Zone Map No.	J-14-Z	Sheet	7	of	18
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AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEERS SEAL			
CONTRACTOR				BENCHMARK:				FIELD NOTES							
WORK BY				DATE				NO.							
INSPECTOR'S				DATE				BY							
ACCEPTANCE BY				DATE											
VERIFICATION BY				DATE											
DRAWINGS BY				DATE											
MICRO-FILM INFORMATION				RECORDED BY											
				NO.											



CONSTRUCTION NOTES

- A. BASE INFORMATION UTILIZED FOR THIS PROJECT IS FROM A TOPOGRAPHIC AND BOUNDARY SURVEY CONDUCTED MARCH 1997. NO OFFICIAL SURVEY HAS BEEN CONDUCTED FOR THIS PROJECT. BASE PLANS WERE CREATED FROM THIS SURVEY AND FIELD OBSERVATIONS. CONTRACTOR TO FIELD VERIFY SITE PLAN WITH EXISTING CONDITIONS.
- B. DUE TO THE UNKNOWN SITE CONDITIONS OF THIS PROPERTY, CONTRACTOR IS EXPECTED TO NOTIFY ARCHITECT IF DESIGN CHANGES ARE NEEDED IN ORDER TO EXECUTE THE SCOPE OF WORK SUCCESSFULLY.
- C. EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION.
- D. REFER TO CIVIL DRAWINGS FOR GRADING, DRAINAGE AND UTILITIES.
- E. SEE HORIZONTAL CONTROL PLAN FOR SITE LAYOUT.

LANDSCAPE AREA NOTES

- A. LANDSCAPE FABRIC: ALL LANDSCAPE AREAS, EXCEPT FOR SODDED AREAS, SHALL BE COVERED WITH LANDSCAPE WEED BARRIER FABRIC PRIOR TO MULCHING, IN ORDER TO MINIMIZE WEED GROWTH AND HELP MAINTAIN SOIL MOISTURE. OVERLAP EDGES 3" AND TUCK DOWN ENDS 3".
- B. LANDSCAPE AREAS SHALL BE COVERED WITH EITHER SOD OR ROCK MULCH. SEE LEGEND, THIS SHEET. QUANTITIES AND AREA SQUARE FOOTAGES ARE APPROXIMATE, CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES FOR FINAL PRICING.
- C. ADD MULCH RING TO ALL TREES LOCATED IN SODDED AREAS, SEE COA STD. DETAIL #2713.
- D. NO STEEL EDGING IS USED ON THIS PROJECT. LINES SHOWN BETWEEN MULCH PATTERNS REPRESENT THE TRANSITION LINE BETWEEN MATERIALS.
- E. DOUBLE THE ORGANIC AMENDMENTS FOR THE TURF GRASS SOD TO A 2" LAYER. REFERENCE SECTION 1011 TURF GRASS SEEDING, CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- F. THE EXISTING IRRIGATION CONTROLLER IS LOCATED AT THE SE CORNER OF THE EXISTING BASKETBALL COURTS.

IRRIGATION NOTES

- A. USING NEW LATERAL PIPE REINSTALL THE SPRINKLER AT THE NEW LOCATION INDICATED ON PLAN. THE CONTRACTOR SHALL REUSE THE EXISTING SWING JOINT ASSEMBLY OR NIPPLE RISERS AND INSTALL THE SPRINKLER PER COA STD. DETAILS AT THE NEW LOCATION. THE NEW LATERAL PIPE SHALL BE THE SAME SIZE AS THE EXISTING LATERAL PIPE AND HAVE THE SAME DEPTH OF BURY AS EXISTING LATERAL PIPING. ALL CONNECTIONS TO THE EXISTING LATERAL PIPE SHALL BE MADE WITH NEW SCH. 40 PVC SOLVENT WELD FITTINGS. DO NOT USE NEW LATERAL PIPE SMALLER THAN 3/4" SCH. 40 PVC SHOULD A SMALLER SIZE BE ENCOUNTERED.
- B. FOR EXISTING TREES TO REMAIN WITHIN CRUSHER FINE AREAS, IRRIGATE WITH BUBBLERS PER COA STD DETAIL #2710. CONNECT TO VALVE NO LONGER USED FOR TURF IRRIGATION.

KEY NOTES

- LIMITS OF WORK
- EXISTING COMMUNITY CENTER BUILDING TO REMAIN
- EXISTING CURB AND GUTTER AND STREET TO REMAIN
- EXISTING PARKING LOT TO REMAIN
- EXISTING BOLLARD TO REMAIN
- EXISTING LIGHT FIXTURE TO REMAIN
- EXISTING CONCRETE SIDEWALK TO REMAIN
- EXISTING CONCRETE MOWCURB TO REMAIN
- EXISTING SCULPTURE TO REMAIN
- EXISTING STAGE STRUCTURE TO REMAIN
- EXISTING WATER FOUNTAIN TO REMAIN
- EXISTING FENCE TO REMAIN, 6' TALL
- EXISTING WALL TO REMAIN
- EXISTING PLAYGROUND TO REMAIN
- EXISTING LANDSCAPE AREA TO REMAIN
- EXISTING TREE TO REMAIN
- EXISTING TURF AREA TO REMAIN
- EXISTING IRRIGATION POC TO REMAIN
- EXISTING IRRIGATION VALVE TO REMAIN
- EXISTING CONCRETE RUNDOWN TO REMAIN
- SAWCUT LINE AT EXISTING CONCRETE
- CONCRETE SIDEWALK, SEE COA STD. DETAIL #2720
- CONCRETE STAGE, SEE B3-B5/9
- CONCRETE RAMP WITH HANDRAILS BOTH SIDES, SEE B1-B2/9
- CONCRETE EXPANSION JOINT, SEE COA STD. DETAIL #2450-2452, TYP.
- CONCRETE CONTROL JOINT, SEE COA STD. DETAIL #2450-2452, TYP.
- CONCRETE MOWCURB, SEE COA STD. DETAIL #2726
- TUBULAR FENCING, 6' TALL, SEE DETAIL A1-A2/9
- TUBULAR FENCING, 8' TALL, SEE DETAIL A1-A2/9
- TUBULAR FENCING DOUBLE GATE, SEE DETAIL A3/9, 6' TALL
- TUBULAR FENCING SINGLE GATE, SEE DETAIL A4/9, 6' TALL
- TUBULAR FENCING TO MATCH EXISTING AT RELOCATED GATE
- RELOCATE EXISTING GATE
- LANDSCAPE AREA, SEE LEGEND
- BENCH SEATING, SEE SITE FURNISHINGS LEGEND
- RELOCATE EXISTING TRASH RECEPTACLE
- PICNIC TABLE, SEE SITE FURNISHINGS LEGEND
- WATERPLAY SPRAY AREA, SEE WATERPLAY EQUIPMENT LEGEND, THIS SHEET
- PUMP BUILDING, SEE SHEET 10
- RELOCATE IRRIGATION VALVE, WIRE TO EXISTING CONTROLLER, SEE COA STD. DETAIL #2703
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- SIDEWALK CULVERT, SEE GRADING AND DRAINAGE PLAN
- CMU BLOCK WALL, SEE DETAIL B3/9
- WATER TREATMENT SYSTEM ON CONCRETE PAD, BY CONTRACTOR
- SHOWER FIXTURES WITH ENCLOSURE, SEE SHEET 10
- EXISTING IRRIGATION HEAD TO REMAIN
- EXISTING IRRIGATION HEAD TO RELOCATE
- IRRIGATION SLEEVE FOR FUTURE IRRIGATION USE, 1 @ 2-1/2"
- WATER FEATURE DRAIN INLETS, SEE UTILITY DRAWINGS
- SAND TRAP, SEE MECHANICAL DRAWINGS
- ADD BUBBLERS TO EXISTING TREE, SEE COA STD DETAIL #2710
- EXISTING FENCE WITH SAND BARRIER, SEE DETAIL C1/9

CONSTRUCTION PLAN LEGEND

SYMBOL	APPROX. QTY.	TYPE
---		LIMITS OF WORK
[Hatched Box]		EXISTING SIDEWALK TO REMAIN
[Dotted Box]	1666 SF	CRUSHER FINES, 4" DEPTH OVER FILTER FABRIC, COLOR GRAY MAX. 12" HEIGHT DIFFERENCE BETWEEN CRUSHER FINES ELEVATION AND ADJACENT PAVING ELEVATION
[Cross-hatched Box]	1309 SF	TURFGRASS SOD PARK BLEND FROM APPROVED SUPPLIER, PER COA STD. SPECIFICATION SECTION 1010
[Solid Box]	1510 SF	CONCRETE SIDEWALK
[Dotted Box]	672 SF	CONCRETE AT STAGE WITH MEDIUM BROOM FINISH
[Hatched Box]	3023 SF	CONCRETE SIDEWALK WITH MEDIUM BROOM FINISH
---		CONCRETE EXPANSION JOINT, SEE COA STD. DETAIL #2450-2452, TYP.
---		CONCRETE CONTROL JOINT, SEE COA STD. DETAIL #2450-2452, TYP.

SITE FURNISHING LEGEND

SYMBOL	APPROX. QTY.	TYPE
[Bench Symbol]	5	6' BENCH WITH BACKREST FROM DUMOR, MODEL: 127-30. MOUNT: SURFACE. POWDER COAT COLOR: ARGENTO. CONTACT: EXERPLAY INC 505-281-0151
[Picnic Table Symbol]	2	PICNIC TABLE, MODEL: 198-80PL FROM DUMOR. MOUNT: SURFACE. POWDER COAT COLOR: BLUE, SEAT FINISH: GRAY. TABLE FINISH: GRAY. CONTACT: EXERPLAY, INC 505-281-0151

IRRIGATION LEGEND

SYMBOL	TYPE
[Dot]	EXISTING IRRIGATION HEAD TO REMIAN
[Star]	RELOCATE EXISTING IRRIGATION HEAD. LOCATION, RADIUS AND ARC TO BE ADJUSTED IN FIELD TO ACHIEVE UNIFORM COVERAGE

ALTERNATE

[Hatched Box]	3023 SF	CONCRETE SIDEWALK WITH WITH MEDIUM BROOM FINISH AND SHARK'S GRIP SURFACING
---------------	---------	--

WATERPLAY EQUIPMENT LEGEND

WATERPLAY SOLUTIONS CORP, CONTACT: EXERPLAY, INC 505-281-0151

QTY.	ITEM	DESCRIPTION
2	WP C02-255	MOP TOP SPRAYS
3	WP C02-023-W	DAISY MAE WAVY
1	WP C02-059	SPRAY LOOP TUNNEL
2	WP C02-262	SPLASH BLASTER
1	WP C02-282	SPIN SOAKER
1	WP C02-164	ACTIVATOR



CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

TITLE: WELLS PARK WATERPLAY
CONSTRUCTION PLAN

Design Review Committee

City Engineer Approval

City Project No.

568503

Zone Map No.

J-14-Z

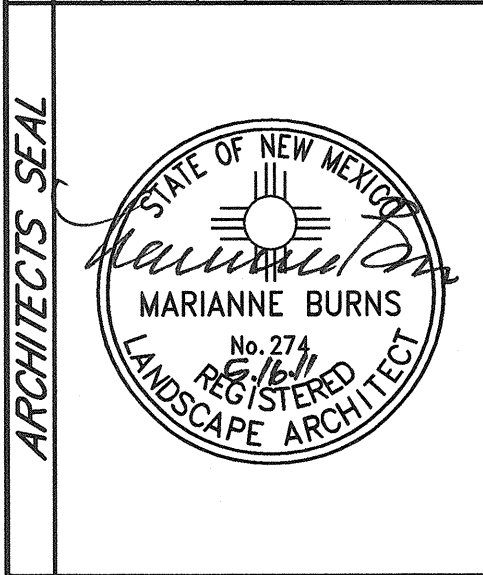
Sheet

8

of

18

AS BUILT INFORMATION			
CONTRACTOR	DATE	DATE	DATE
WORK STARTED BY	DATE	DATE	DATE
ACCEPTANCE BY	DATE	DATE	DATE
FIELD VERIFICATION BY	DATE	DATE	DATE
DRAWINGS CORRECTED BY	DATE	DATE	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	DATE



SURVEY INFORMATION			
FIELD NOTES	BY	DATE	
	NO.		
REMARKS			
DESIGN			
DESIGNED BY	DATE	5/18/11	
DRAWN BY	DATE	5/18/11	
CHECKED BY	DATE	5/18/11	

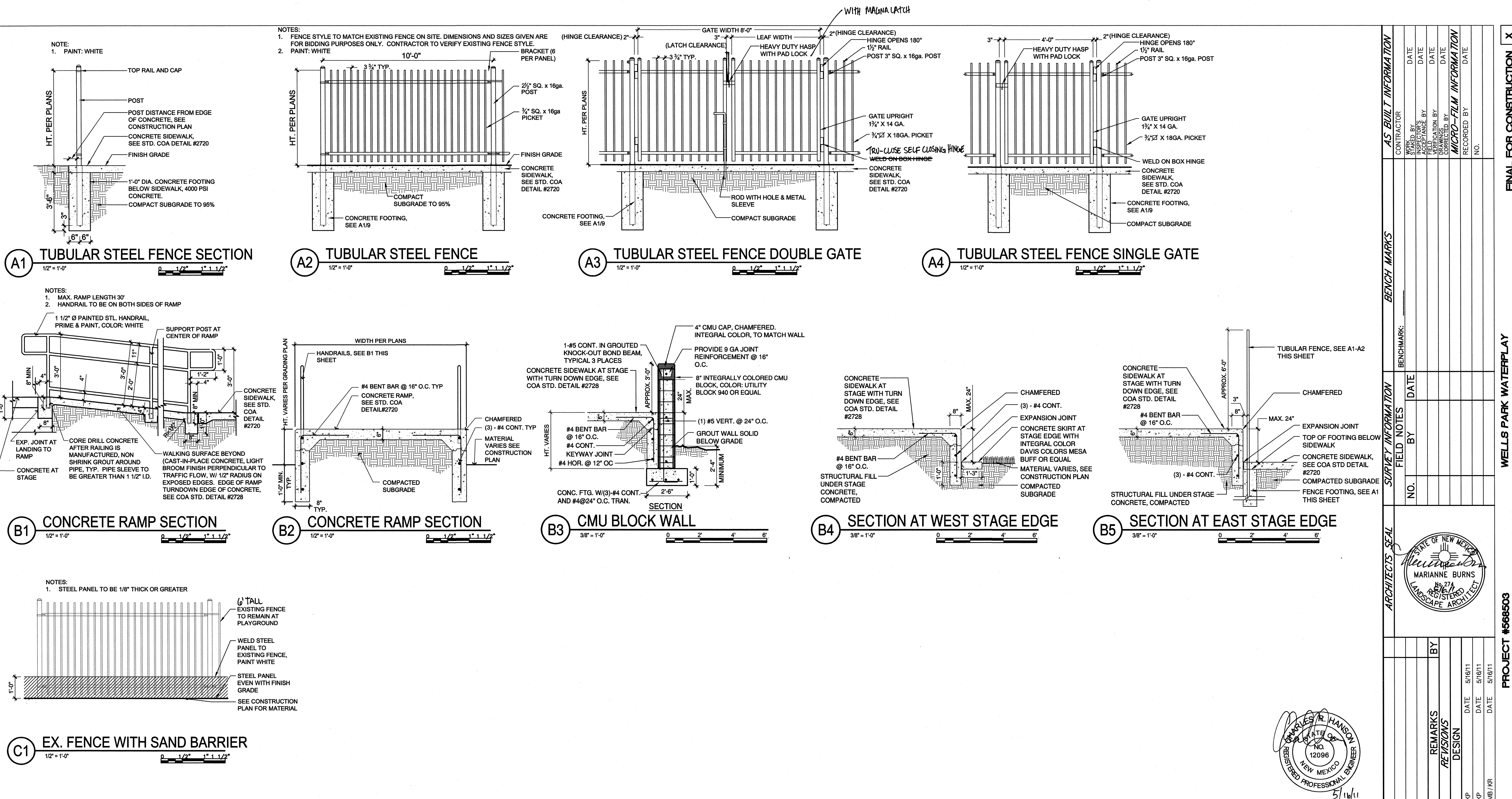


FINAL FOR CONSTRUCTION X

WELLS PARK WATERPLAY

PROJECT #568503
May 16, 2011

RECORD DRAWINGS



Plan Check Section
I.B.C.
MAY 27 2011
Building & Safety
Albuquerque



Dekker/Perich/Sabatini
architects - interior - landscape - planning - engineering
7801 Jefferson NE, Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761-4222

CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT	
TITLE: WELLS PARK WATERPLAY CONSTRUCTION DETAILS	
Design Review Committee	City Engineer Approval
Update	No. / Day / Yr.
Sheet 9 of 18	Zone Map No. J-14-Z
City Project No. 568503	Record Drawings

ARCHITECTS SEAL				SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
				FIELD NOTES				CONTRACTOR				WORK			
				NO.	BY	DATE		NO.	BY	DATE		NO.	BY	DATE	
				REVISIONS				DESIGN				MICRO-FILM INFORMATION			
				NO.	DATE	BY		NO.	DATE	BY		NO.	DATE	BY	
				DESIGNED BY	5/16/11	KP		DESIGNED BY	5/16/11	KP		DESIGNED BY	5/16/11	KP	
				DRAWN BY	5/16/11	KP		DRAWN BY	5/16/11	KP		DRAWN BY	5/16/11	KP	
				CHECKED BY	5/16/11	MB/KP		CHECKED BY	5/16/11	MB/KP		CHECKED BY	5/16/11	MB/KP	

GENERAL NOTES

GENERAL CRITERIA:

1. COORDINATION WITH OTHER DRAWINGS:
- A. SEE DRAWINGS OTHER THAN STRUCTURAL FOR DEPRESSIONS IN FLOOR SLABS, EXTERIOR PAVING, OPENINGS IN WALLS AND FLOORS, ETC.
- B. HOLES AND OPENINGS THROUGH WALLS, BEAMS, AND FLOORS FOR DUCTS, PIPING AND VENTILATION SHALL BE CHECKED BY THE CONTRACTOR, WHO SHALL VERIFY SIZES AND LOCATIONS OF SUCH HOLES OR OPENINGS WITH THE PLUMBING, HVAC AND ELECTRICAL DRAWINGS AND THESE SUB-CONTRACTORS AS REQUIRED.
- C. SEE ARCHITECTURAL DRAWINGS FOR WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
- D. DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS WITH OTHER DRAWINGS FOR INDIVIDUAL ITEMS. DISCREPANCIES UNCOVERED, IF ANY, SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- E. TYPICAL EDGE OF STRUCTURE / SLAB IS SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR TO COORDINATE LOCATIONS, DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL EXTERIOR WALL SECTIONS.
- F. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF DETERMINING DIMENSIONS.
2. DETAILS ARE SHOWN ON SHEET 11 AND APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ON THE PLANS AND DETAILS.
3. FOR DETAILS, LOCATIONS AND NUMBER OF INSERTS. EMBEDDED ITEMS, EQUIPMENT SUPPORT PADS, EQUIPMENT ANCHOR BOLTS AND SIMILAR ITEMS, REFER TO ARCHITECTURAL AND OTHER DRAWINGS.
4. EXISTING CONDITIONS:
- A. NEW CONSTRUCTION MUST BE COORDINATED WITH EXISTING SITE CONDITIONS.
- B. LOCATE AND PROTECT ALL EXISTING UNDERGROUND FACILITIES.
6. STRUCTURAL STABILITY:
- A. THE STRUCTURE SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL, FULLY CONSTRUCTED CONDITIONS.
- B. PROVIDE SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
- C. WHERE BACKFILL IS PLACED AGAINST WALLS, THE WALLS SHALL BE BRACED OR OTHERWISE ADEQUATELY SHORED UNTIL PERMANENT BRACING ELEMENTS OR SLABS HAVE BEEN ERECTED AND HAVE ATTAINED DESIGN STRENGTH.
7. SUBMITTAL REQUIREMENTS:
- A. IN THE ABSENCE OF SPECIFIC REQUIREMENTS IN THESE NOTES OR THE SPECIFICATIONS, SUBMIT SHOP DRAWINGS FOR THE FOLLOWING MATERIALS:
- a. CONCRETE MIX DESIGNS.
- b. METAL DECKING.
- c. CMU, MORTAR & GROUT MIX DESIGNS.
- d. REINFORCING STEEL REQUIRED FOR CONCRETE AND CONCRETE MASONRY UNITS.
- e. STRUCTURAL STEEL.

8. MATERIAL CRITERIA:
1. STRUCTURAL STEEL:
- A. A992 OR ASTM A572 GR. 50 AS MODIFIED BY AISC TECHNICAL BULLETIN 3 (3/97) FOR ALL WIDE FLANGE STEEL SHAPES.
- B. ASTM A36 FOR ALL STRUCTURAL AND MISCELLANEOUS STEEL CHANNELS, ANGLES, BARS, PLATES, AND CONNECTIONS UNLESS NOTED OTHERWISE.
- C. ASTM A500 GRADE B (Fy = 48 KSI) FOR ALL STRUCTURAL TUBING.
- D. ALL WELDING SHALL COMPLY WITH THE LATEST EDITION OF THE AWS STRUCTURAL WELDING CODE.
- E. ALL FIELD DRILLING SHALL BE DONE WITH A MAG DRILL. FLAME CUTTING OF HOLES OR TO ENLARGE UNFAIR HOLES WILL NOT BE PERMITTED.
- F. HEADED ANCHOR STUDS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
- G. STEEL TO RECEIVE HEADED STUDS SHALL BE CLEAN AND FREE OF PAINT.
- H. STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST OSHA REGULATIONS.
- I. CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR ERECTION TOLERANCES. FIELD MODIFICATION TO STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
2. STEEL DECK:
- A. ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST STEEL DECK INSTITUTE SPECIFICATIONS.
- B. SEE PLANS FOR STEEL DECK TYPE, GAGE, FINISH AND CONNECTIONS.
- C. PROVIDE 1 1/2 INCH MINIMUM BEARING AT ALL STEEL DECK SUPPORT CONDITIONS.
- D. ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2 INCHES AND SHALL BE CENTERED OVER SUPPORTS.
- E. REFER TO DRAWINGS OTHER THAN STRUCTURAL FOR OPENINGS THROUGH DECK.
- F. PROVIDE STANDARD ACCESSORY MATERIALS, ACCORDING TO SDI RECOMMENDATIONS, TO PROVIDE TIGHT FITTING CLOSURE AT OPEN ENDS AND SIDES OF DECKING.
- G. NOTHING WEIGHING MORE THAN 20 POUNDS IS TO BE SUPPORTED FROM THE METAL ROOF DECK UNLESS SPECIFICALLY DETAILED IN THESE PLANS.
- H. PREPARE AND REPAIR GALVANIZED COATINGS ON TOP SIDE AND UNDERSIDE OF DECK USING GALVANIZING REPAIR PAINT PER ASTM A780, AND MANUFACTURER'S INSTRUCTIONS.
3. CONCRETE:
- A. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE," ACI 301.
- B. BASIS FOR DESIGN, STRENGTH AT 28 DAYS: SEE TABLE 101.1 OF COA SPEC SECTION 101, "PORTLAND CEMENT CONCRETE"
- C. ALL CONCRETE SHALL BE REINFORCED UNLESS SPECIFICALLY NOTED "NOT REINFORCED."
- D. STEM WALLS, GRADE BEAMS, AND RETAINING WALLS SHALL NOT BE CAST AGAINST EXCAVATED VERTICAL SIDE SURFACES.
- E. CONTROL JOINTS IN SLABS ON GRADE SHALL BE PROVIDED WHERE NOTED ON PLANS.
- F. PIPE AND CONDUIT WILL NOT BE PERMITTED TO BE INSTALLED HORIZONTALLY IN SLABS WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
4. REINFORCED CONCRETE MASONRY:
- A. BASIS FOR DESIGN: ALL MASONRY UNITS SHALL BE TYPE I WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA). Fm = 1500 PSI. MASONRY UNITS SHALL BE MANUFACTURED WITH INTEGRAL WATER REPELLENT.
- B. MORTAR SHALL BE TYPE S. PER PROPORTION SPECIFICATION OF ASTM C270, W/ INTEGRAL WATER REPELLENT.
- C. CELLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
- D. ALL VERTICAL REBAR SHALL BE IN PLACE AND SECURED WITH REBAR POSITIONERS PRIOR TO GROUTING.
- E. UNLESS OTHERWISE NOTED, MASONRY CELLS SHALL BE GROUTED IN ACCORDANCE WITH THE LOW-LIFT METHOD AS DESCRIBED IN THE INTERNATIONAL BUILDING CODE. (MAXIMUM 4 FOOT LIFTS)
- F. ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID UP TO GRADE.
- G. LAP ALL REBAR 48 BAR DIAMETERS OR 24" MINIMUM UNLESS NOTED OTHERWISE.
- H. LAP ALL JOINT REINFORCEMENT 75 WIRE DIAMETERS. ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND A LAP OF 48 BAR DIAMETERS OR 24 INCHES MINIMUM. VERTICAL REBAR SHALL CONTINUE THROUGH BOND BEAMS. IF BOND BEAMS AT INTERSECTING WALLS MEET AT DIFFERENT ELEVATIONS, EXTEND BOND BEAMS AROUND INTERSECTING CORNER TO FIRST INTERIOR REINFORCED CELL, BUT NOT LESS THAN 4 FEET.
- I. PROVIDE STANDARD TRUSS TYPE JOINT REINFORCING @ 16" O.C. (ALTERNATE COURSES) UNLESS NOTED OTHERWISE. USE PREFABRICATED CORNERS AND TEES AT ALL WALL CORNERS AND INTERSECTIONS RESPECTIVELY.
- J. ALL CMU SHALL BE REINFORCED UNLESS SPECIFICALLY NOTED "NOT REINFORCED."
- K. PIPE OR CONDUIT WILL NOT BE PERMITTED TO BE INSTALLED VERTICALLY OR HORIZONTALLY IN MASONRY WALLS WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

5. REINFORCING STEEL:

- A. ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315).
- B. USE ASTM A615 GRADE 60 FOR ALL REINFORCING STEEL. USE ASTM A185 FOR ALL WELDED WIRE FABRIC. PROVIDE IN FLAT SHEETS ONLY.
- C. LAP WIRE FABRIC TWO FULL MESH PANELS AND TIE SECURELY.
- D. ALL REINFORCEMENT SHALL BE CONTINUOUS. STAGGER SPLICES WHERE POSSIBLE. LAPS FOR SPLICES SHALL BE AS REQUIRED BY ACI 318 OR ACI 350, WHICHEVER IS MORE RESTRICTIVE, UNLESS OTHERWISE SHOWN OR NOTED.
- E. BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF STEEL CONCRETE IN CONTACT WITH GRADE.
- F. REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.
- G. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT (CLEAR DISTANCE):
- b. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" c. CONCRETE EXPOSED TO EARTH OR WEATHER: 2" (#6 AND LARGER) 1 1/2" (#5 AND SMALLER)
- c. STRUCTURAL SLABS AND WALLS: 1" CLEAR
- H. TYPICAL REINFORCEMENT UNLESS OTHERWISE SHOWN:
- a. UP TO 8" CONCRETE WALLS: #4 @ 8" O.C. EACH WAY AT CENTER OF WALL.
- b. OVER 8" TO 12" CONCRETE WALLS: #4 @ 12" O.C. EACH WAY, EACH FACE.
- I. ALL HORIZONTAL REINFORCING, WALLS AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP SPLICES PER ACI 318.

DESIGN CRITERIA:

THE FOLLOWING CRITERIA COVERS THE STRUCTURAL DESIGN OF THIS BUILDING STRUCTURE.

1. CODES AND MANUALS - MOST STRINGENT OF:

- A. INTERNATIONAL BUILDING CODE, (2006) EDITION.
- B. AISC MANUAL OF STEEL CONSTRUCTION, 13th EDITION.
- C. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530/ASCE 5 / TMS 402.
- D. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318.
- E. CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES, ACI 350.
- F. CITY OF ALBUQUERQUE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION"

2. DESIGN LOADS:

VERTICAL:

- A. DEAD LOADS - BUILDING IS DESIGNED FOR THE ACTUAL IN-PLACE WEIGHTS OF ALL MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- B. DESIGN LOADS:
- ROOF (NON-REDUCIBLE) 20 PSF LIVE DEAD
- C. ROOF SNOW LOAD:
- GROUND SNOW LOAD, P_g 10 PSF
- FLAT ROOF SNOW LOAD, P_f 10 PSF
- SNOW EXPOSURE FACTOR, C_e 1.0
- SNOW IMPORTANCE FACTOR, I_s 1.0
- THERMAL FACTOR, C_t 1.2

HORIZONTAL:

- A. WIND DESIGN DATA:
- ANALYSIS PROCEDURE: SIMPLIFIED METHOD
- OCCUPANCY: II
- BASIC WIND SPEED (3 SEC. GUST): 90 MPH
- WIND IMPORTANCE FACTOR: I_w = 1.0
- WIND EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT: ± 0.18
- DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING (@ 10FT FROM FINISH FLOOR): 22 PSF
- B. EARTHQUAKE DESIGN DATA:
- ANALYSIS PROCEDURE: [EQUIVALENT LATERAL FORCE PROCEDURE (IBC 2006)]
- SOIL SITE CLASS: D
- SPECTRAL RESPONSE ACCELERATIONS ... S_{0.2} = 0.562 S₁ = 0.17 S_a = 1.35 F_a = 1.35 F_v = 2.12
- SITE COEFFICIENTS
- EARTHQUAKE SPECTRAL RESPONSE ACCELERATION PARAMETERS S_M = 0.759 S_M = 0.360 S_D = 0.506 S_D = 0.240
- SEISMIC IMPORTANCE FACTOR: I = 1.0
- SEISMIC DESIGN CATEGORY: D
- SEISMIC FORCE-RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS
- RESPONSE MODIFICATION COEFFICIENT: R = 5
- SEISMIC RESPONSE COEFFICIENT: C_s = 0.101
- LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) = (-20)°F

FOUNDATION NOTES

1. BASIS FOR DESIGN:

A. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF

2. FIELD OBSERVATION AND TESTING REQUIREMENTS:

- A. EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM THE COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL.
- B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
- a. ONE FIELD DENSITY TEST PER EACH 500 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL OR FLOOR SLAB CONSTRUCTION WITH A MINIMUM OF 2 TESTS.
- b. ONE FIELD DENSITY TEST PER EACH 300 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
- c. ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED OR ENCOUNTERED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
- d. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS TO THE ARCHITECT WITHIN 2 WORKING DAYS AFTER THE TEST.

2. SPECIFIC SOIL PREPARATION REQUIREMENTS:

A. CLEARING AND GRUBBING:

- a. REMOVE ALL BRUSH, RUBBISH, GRASS AND OTHER PLANTS, AND GRASS AND OTHER PLANT ROOTS FROM THE CONSTRUCTION AREA.
- b. REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 6 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR FOOTINGS ARE TO BE CONSTRUCTED.
- c. REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL. IT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.
- B. SITE AND SUBSURFACE PREPARATION:
- a. OVEREXCAVATE ALL SOILS UNDERLYING FOOTINGS AND FLOOR SLAB AND ALL UNCONTROLLED FILL TO A MINIMUM DEPTH OF 2 FEET.
- b. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 12 INCHES, MOISTEN TO OPTIMUM MOISTURE CONTENT +/- 2% AND COMPACT TO THE DENSITY SPECIFIED IN THESE REQUIREMENTS.
- c. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN 8 INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT +/- 2% AND COMPACT TO DENSITY SPECIFIED IN THESE REQUIREMENTS.
- d. ALL EARTHWORK FOR THE BUILDING PAD SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE PERIMETER FOOTINGS.

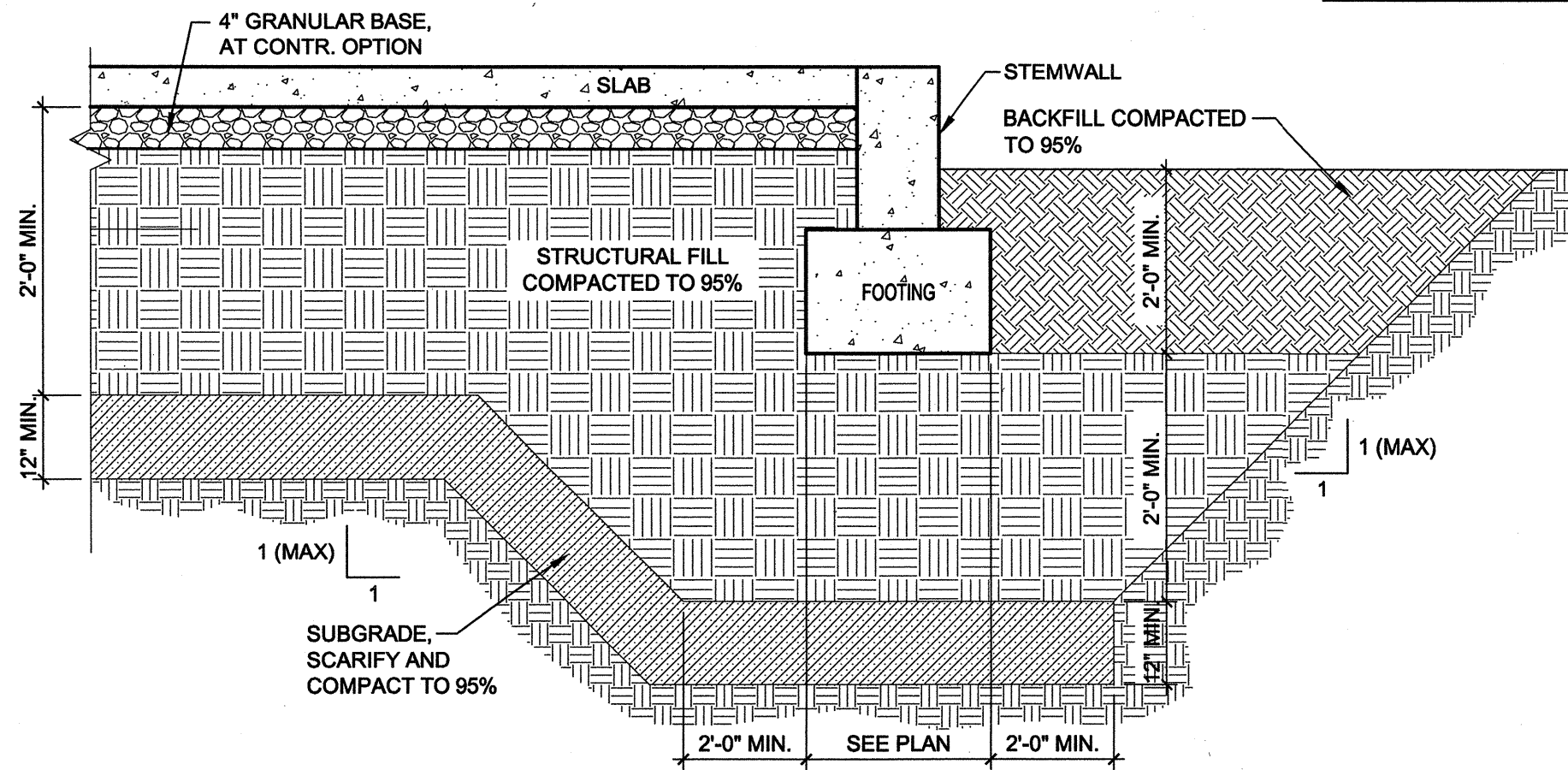
- e. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
- f. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
- g. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT FONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.
- h. KEEP OPEN EXCAVATIONS AND EXCAVATIONS FOR FOOTINGS AROUND AND WITHIN BUILDING PERIMETER DRY. BACKFILL AGAINST FOUNDATIONS AND WALLS AS SOON AS PRACTICAL. PUMP WATER OUT OF OPEN EXCAVATIONS, IF FLOODED PRIOR TO BACKFILLING.
- i. ENGINEERED FILL SHALL NOT BE PLACED WHEN THE ATMOSPHERIC TEMPERATURE IS BELOW 35 DEGREES FAHRENHEIT. WHEN THE TEMPERATURE FALLS BELOW 35 DEGREES, ALL AREAS OF COMPLETED WORK SHALL BE PROTECTED AGAINST DETRIMENTAL EFFECTS OF GROUND FREEZING, AND ANY AREAS AFFECTED BY FREEZING SHALL BE RECONDITIONED AND COMPACTED IN CONFORMANCE WITH THE ABOVE REQUIREMENTS. ANY SOILS DISTURBED DUE TO WETTING, DRYING OR OTHER CAUSES SHALL ALSO BE RECONDITIONED PRIOR TO PLACEMENT OF ADDITIONAL FILL OR CONSTRUCTION OF FOUNDATIONS, FLOOR SLABS, OR OTHER STRUCTURAL ELEMENTS. RECONDITIONING SHALL INCLUDE SCARIFICATION, MOISTURE CONDITIONING, AND RECOMPACTION IN ACCORDANCE WITH THE REQUIREMENTS PRESENTED IN THESE NOTES.
- C. FOOTINGS MAY BE CAST DIRECTLY AGAINST THE VERTICAL SIDES OF THE EXCAVATIONS PROVIDED ALL OF THE FOLLOWING CRITERIA ARE SATISFIED:
- a. SIDE WALLS OF EXCAVATION SHALL BE BATTERED A MINIMUM OF ONE INCH HORIZONTAL TO TWELVE INCHES VERTICAL. THIS CUT SHALL BE ABLE TO REMAIN VERTICAL WITHOUT ANY SLOUGHAGE.
- b. BOTTOM WIDTH OF EXCAVATIONS SHALL BE ONE INCH WIDER AT EACH SIDE THAN IS SHOWN ON DRAWINGS.
- c. IF ANY SANDY OR LOOSE SOIL MATERIALS ARE ENCOUNTERED, FOOTINGS MAY NOT BE EARTH FORMED.
- d. ALL REINFORCING STEEL SHALL BE CORRECTLY ALIGNED AND MAINTAINED, AND SHALL HAVE A MINIMUM OF THREE INCHES OF CONCRETE COVER WHERE CAST AGAINST EARTH.
- e. DURING CASTING, ANY SOIL SLOUGHAGE SHALL BE REMOVED FROM THE WET CONCRETE.
- f. FOOTINGS NOT MEETING THE ABOVE CONDITIONS SHALL BE REMOVED AND RECAST.
- D. STRUCTURAL FILL REQUIREMENTS:
- a. GRADATION (PER ASTM D422):
- SIEVE SIZE PERCENT PASSING BY WEIGHT
- 3" 100
- NO. 4 90-100
- NO. 10 50-100
- NO. 200 10-50
- b. PLASTICITY INDEX (ASTM D4318): 10 MAXIMUM
- c. MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
- d. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN UNIFORMLY COMPACTED FILL.
- E. GRANULAR BASE REQUIREMENTS
- a. PER COA SPECIFICATIONS.
- F. COMPACTION REQUIREMENTS
- a. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING MINIMUM PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT ± 2% OPTIMUM MOISTURE CONTENT.

MATERIAL	PERCENT COMPACTION
STRUCTURAL FILL	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

QUALITY ASSURANCE PROGRAM

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS / TESTING -
- "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 109 OF THE IBC.
2. REPORTING FOR SPECIAL INSPECTION -
- SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
- IN ACCORDANCE WITH IBC CHAPTER 17, THE WORK INDICATED IN THESE SCHEDULES REQUIRES SPECIAL INSPECTIONS AND TESTING.



A5 TYPICAL OVEREXCAVATION

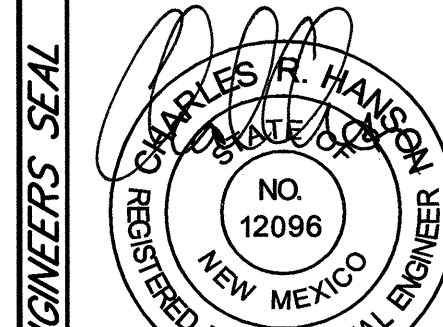
3/4" = 1'-0"

SPECIAL INSPECTION AND VERIFICATION OF SOILS				
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
Y	1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X	1704.7
Y	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X	1704.7
Y	3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	---	X	1704.7
Y	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	---	1704.7
Y	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X	1704.7

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
Y	1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	---	X	1913.4	ACI 318: 3.5, 7.1-7.7
Y	2. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	----	1913.10	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
Y	3. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	----	1913.6, 1913.7, 1913.8	ACI 318: 5.9, 5.10
Y	4. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	1913.9	ACI 318: 5.11- 5.13
Y	5. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	---	ACI 318: 6.1.1

SPECIAL INSPECTION AND VERIFICATION OF MASONRY - LEVEL #1					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402 ACI 530.1/ASCE 6/TMS 602
	1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:				
Y	a. PROPORTIONS OF SITE-PREPARED MORTAR.	---	X	---	ART. 2.6A
Y	b. CONSTRUCTION OF MORTAR JOINTS.	---	X	---	ART. 3.3B
Y	c. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES.	---	X	---	ART. 3.4, 3.8A
	2. THE INSPECTION PROGRAM SHALL VERIFY:				
Y	a. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	---	X	---	SEC. 1.13 ART. 2.4, 3.4
Y	b. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)	---	X	SECTION 2104.3, 2104.4	ART. 1.8C, 1.8D
	3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:				
Y	a. GROUT SPACE IS CLEAN.	---	X	---	ART. 3.2D
Y	b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES.	---	X	---	SEC. 1.13 ART. 3.4
Y	c. PROPORTIONS OF SITE-PREPARED GROUT	---	X	---	ART. 2.6B
Y	d. CONSTRUCTION OF MORTAR JOINTS.	---	X	---	ART. 3.3B
Y	e. INSPECTION OF REINFORCING BAR LAPS.	---	X	---	---
Y	4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	---	---	ART. 3.5
Y	5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS SHALL BE OBSERVED.	X	---	SECTION 2105.2.2, 2105.3	ART. 1.4
Y	6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	---	X	---	ART. 1.5

 Dekker/Perich/Sabatini architecture • interiors • landscape • planning • engineering 7801 Jefferson NE, Suite 100 Albuquerque, NM 87109 505 761-9700 fax 761-4222	
CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT	
TITLE: WELLS PARK WATERPLAY PUMP BUILDING STRUCTURAL NOTES AND INSPECTION REQUIREMENTS	
Design Review Committee	City Engineer Approval
City Project No. 568503	Zone Map No. J-14-Z
Sheet 10 of 18	



5/16/11

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	EL	DATE	5/16/11
DRAWN BY	LJH	DATE	5/16/11
CHECKED BY	FC	DATE	5/16/11

CONTRACTOR		DATE	
WORK STARTED BY		DATE	
FIELD ACCEPTANCE BY		DATE	
FIELD REVISION BY		DATE	
DRAWINGS CORRECTED BY		DATE	
RECORDED BY		DATE	
NO.			

BENCHMARK:		DATE	
BY		DATE	
NO.			

FIELD NOTES		DATE	
BY		DATE	
NO.			

ENGINEER'S SEAL		DATE	
BY		DATE	
NO.			

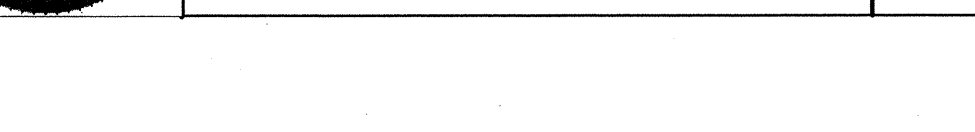
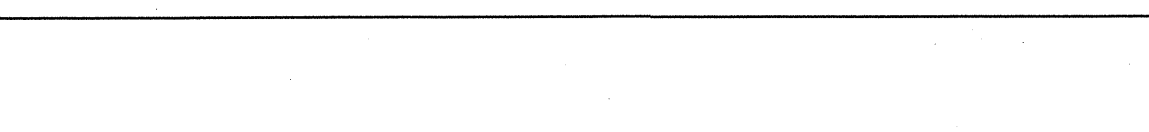
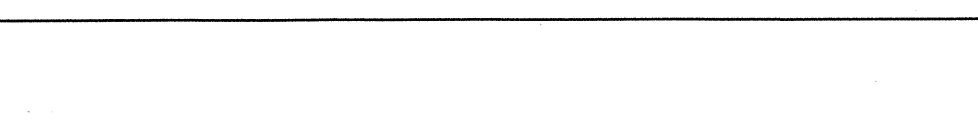
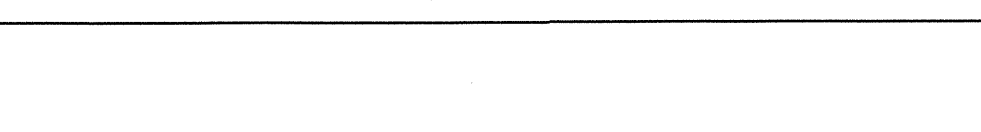
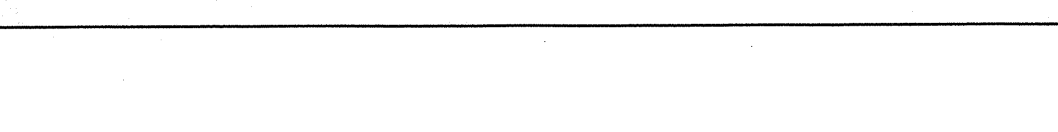
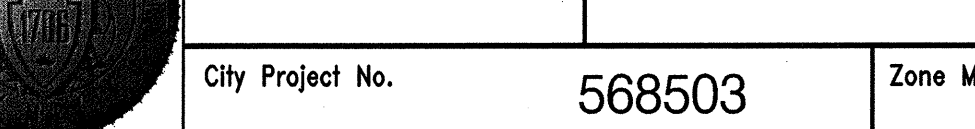
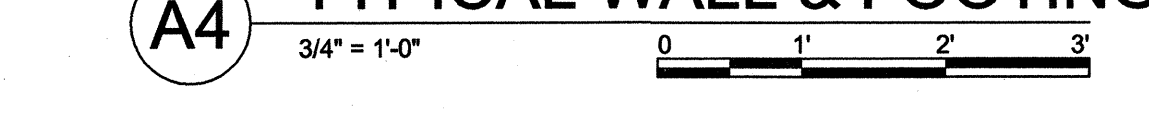
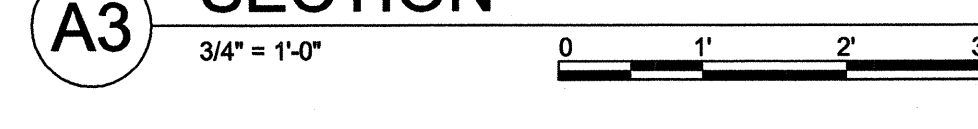
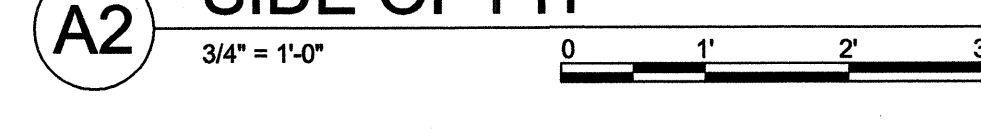
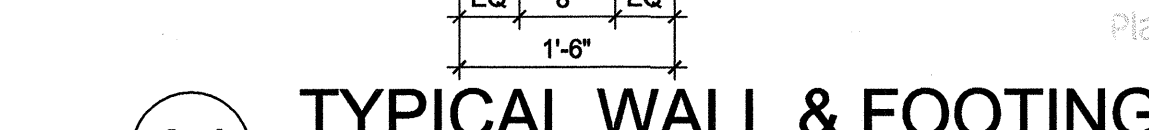
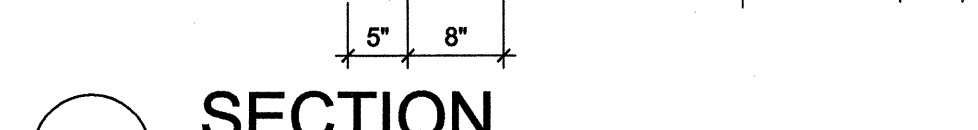
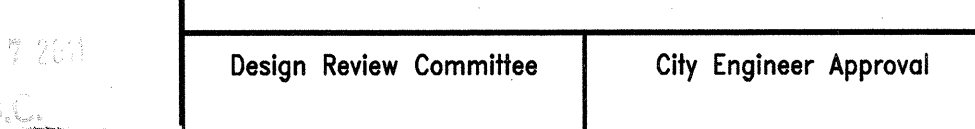
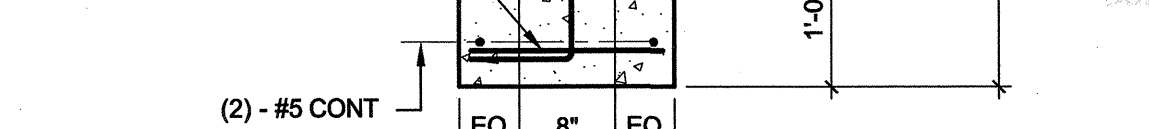
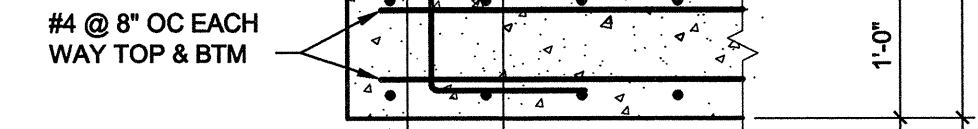
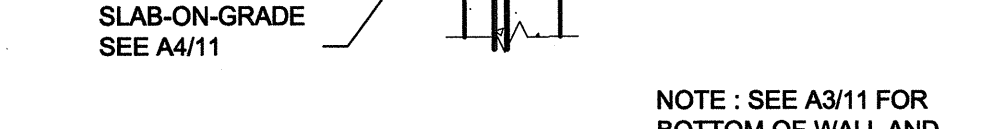
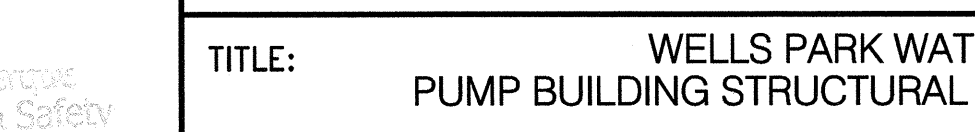
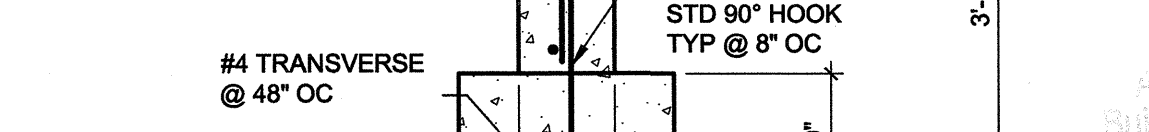
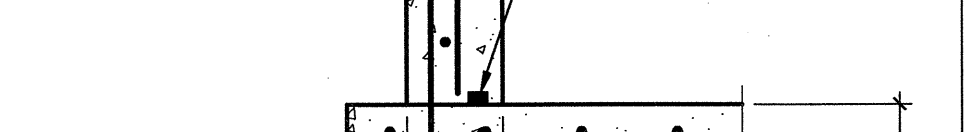
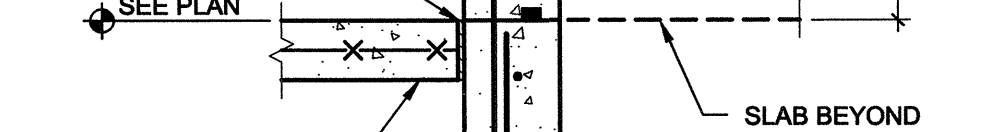
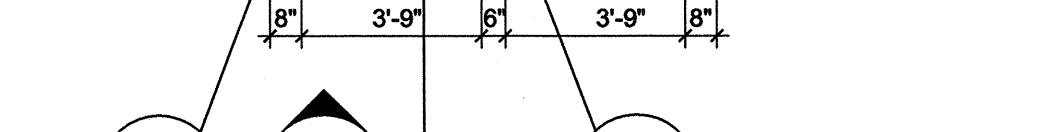
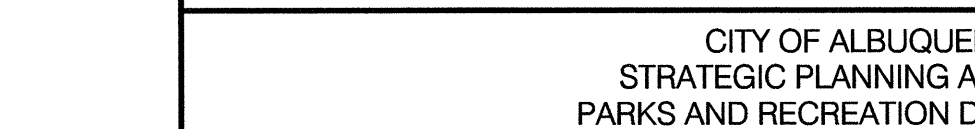
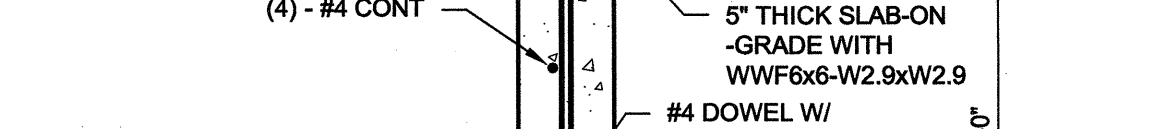
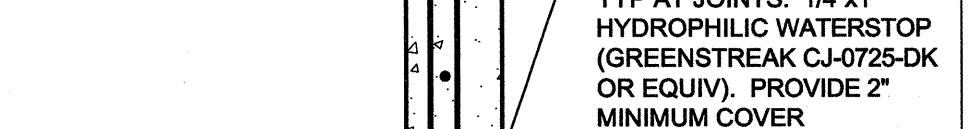
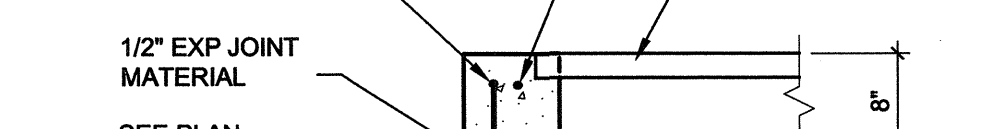
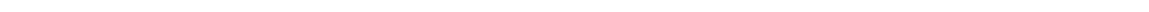
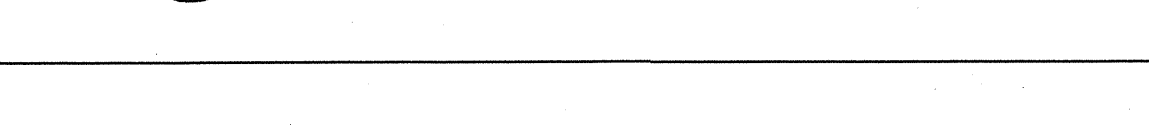
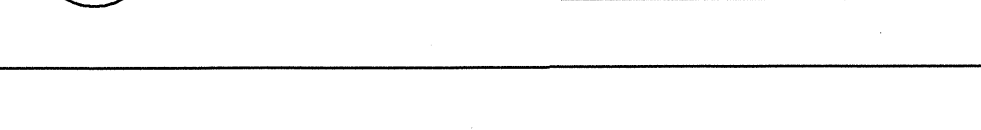
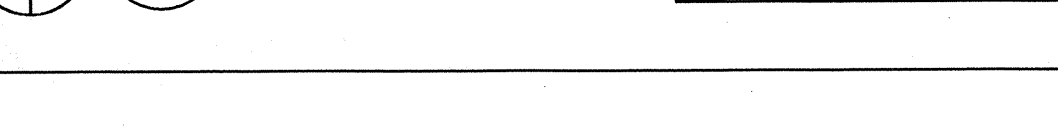
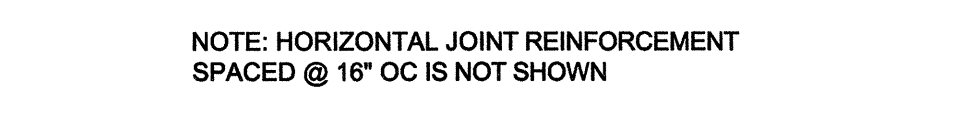
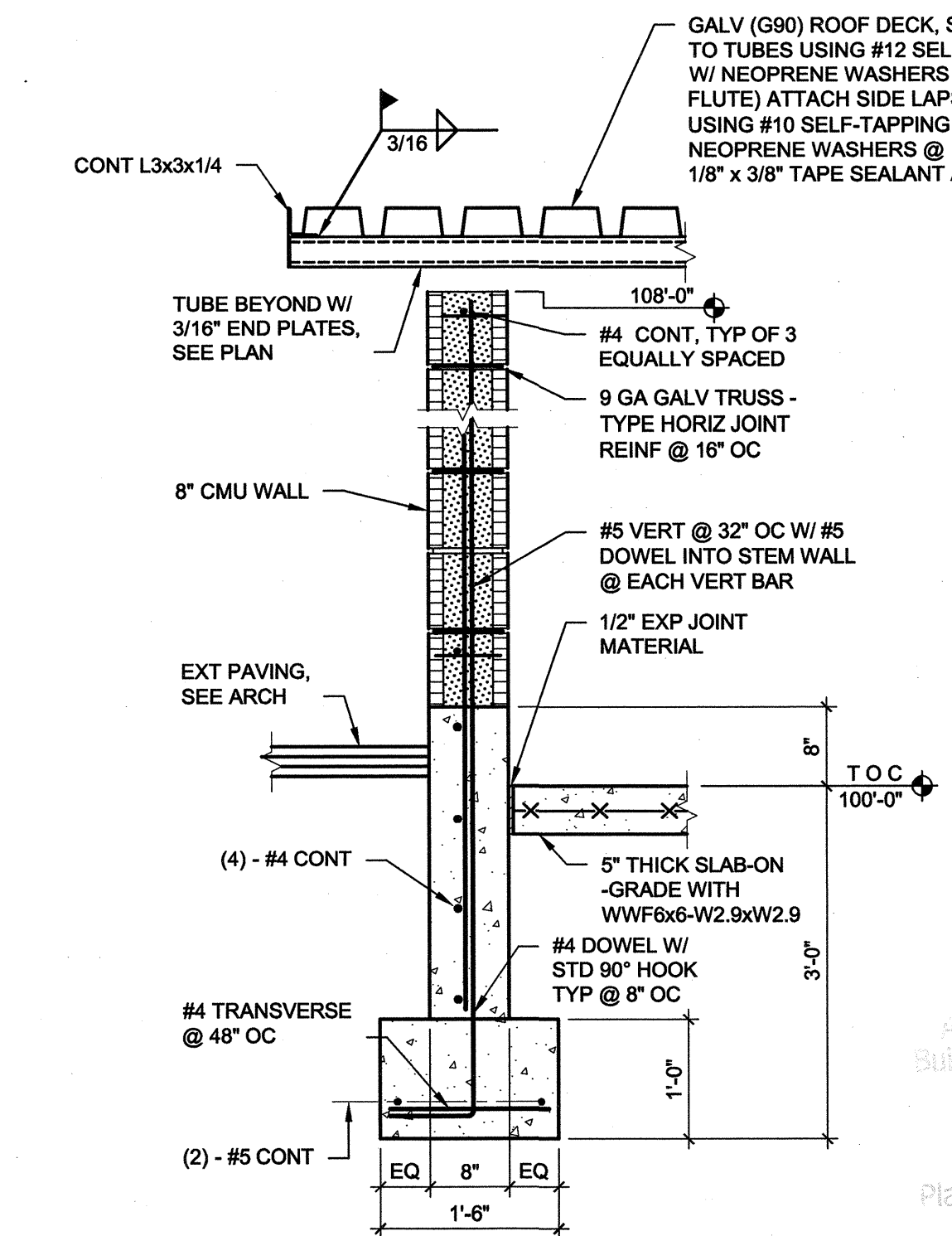
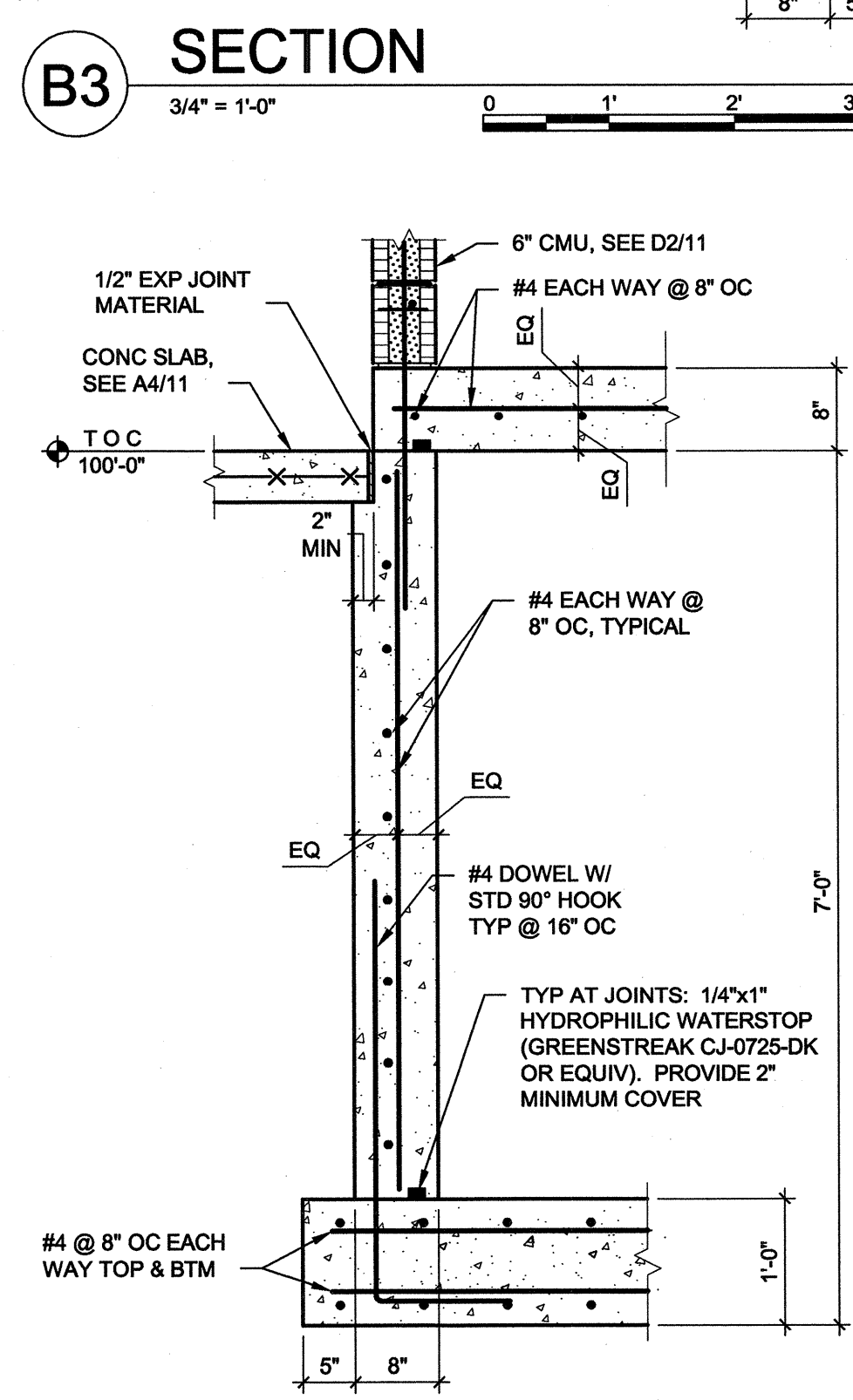
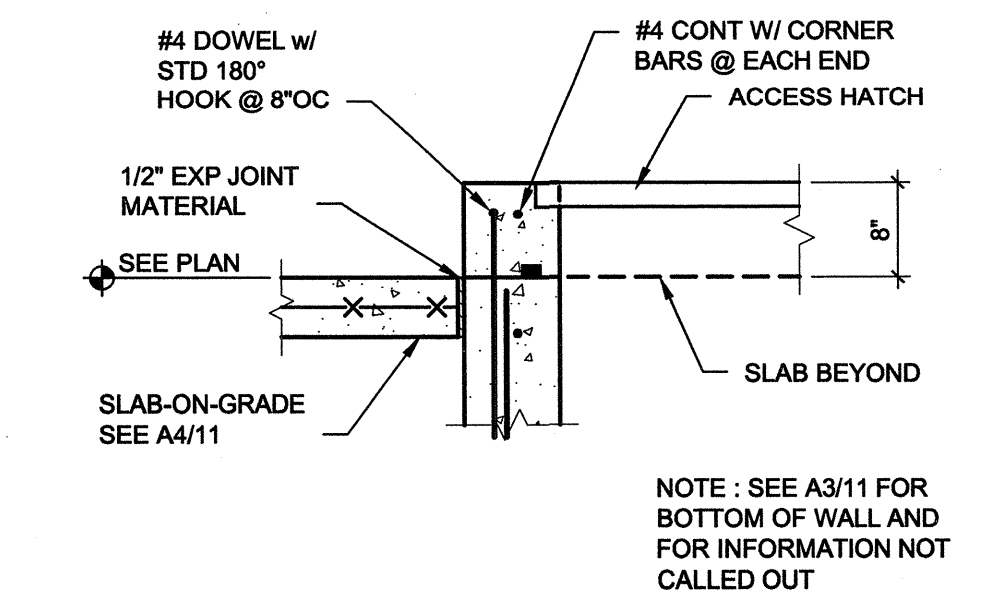
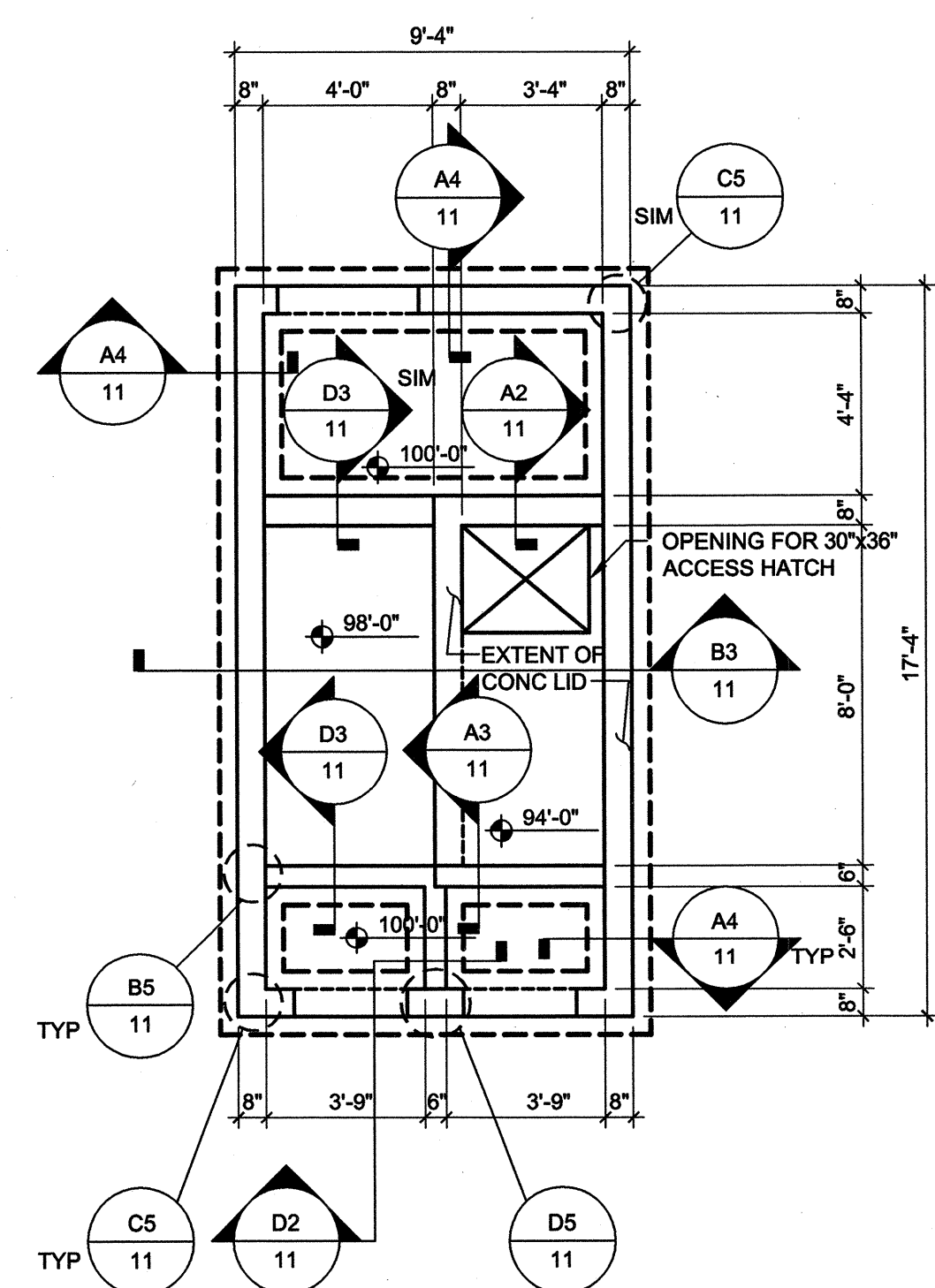
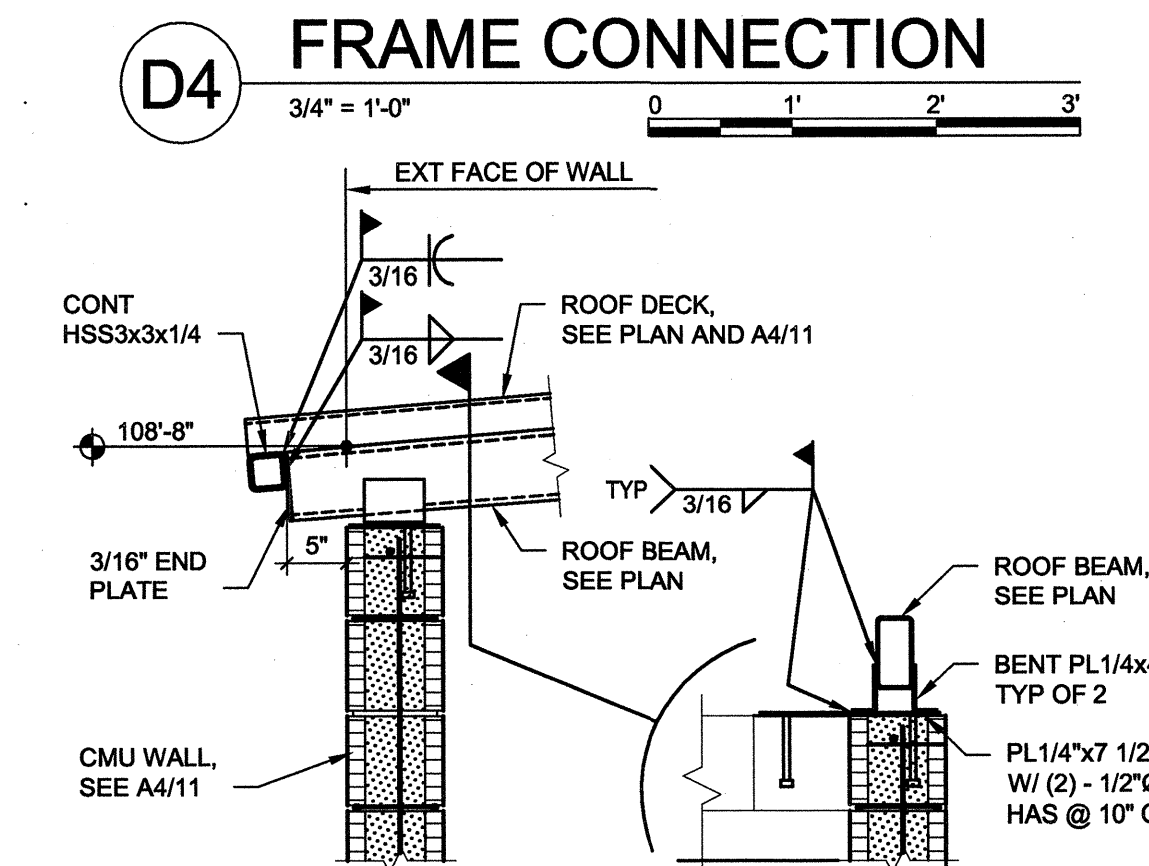
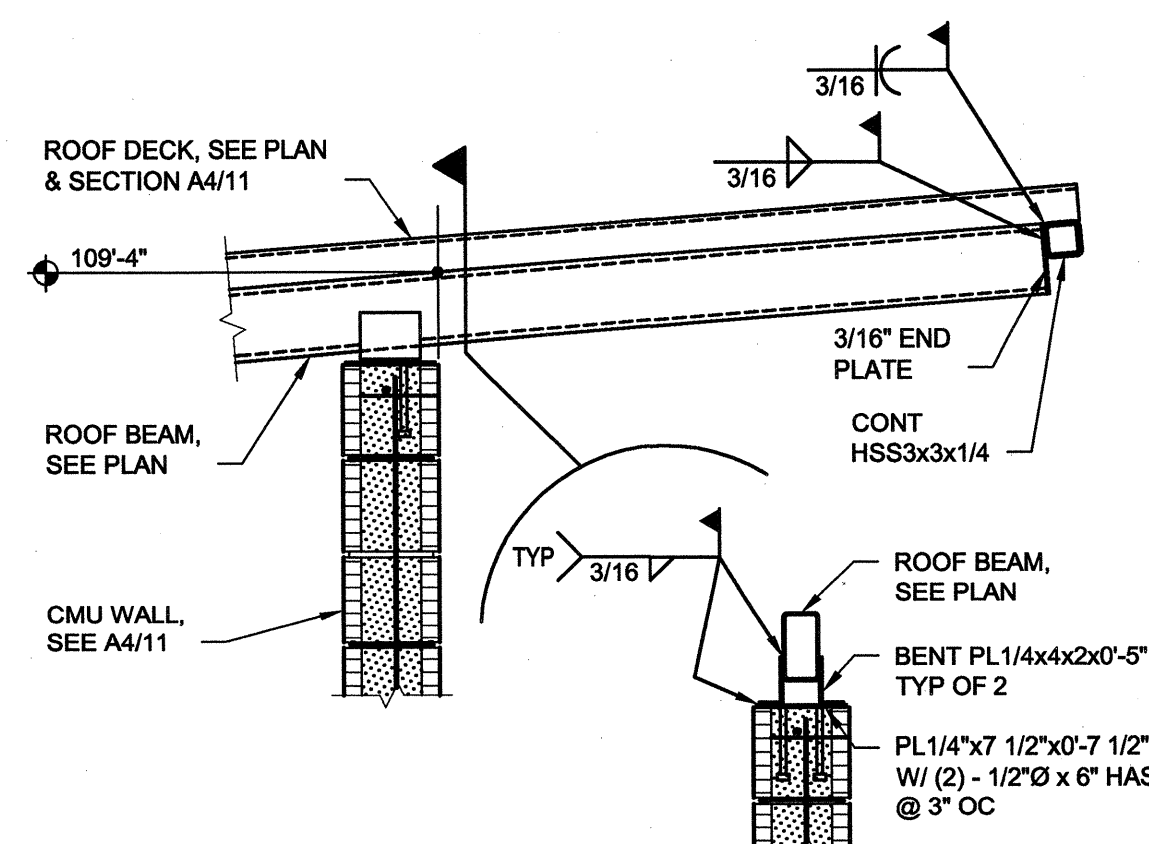
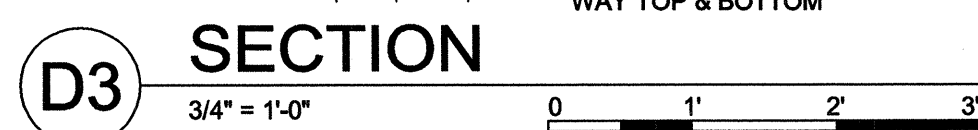
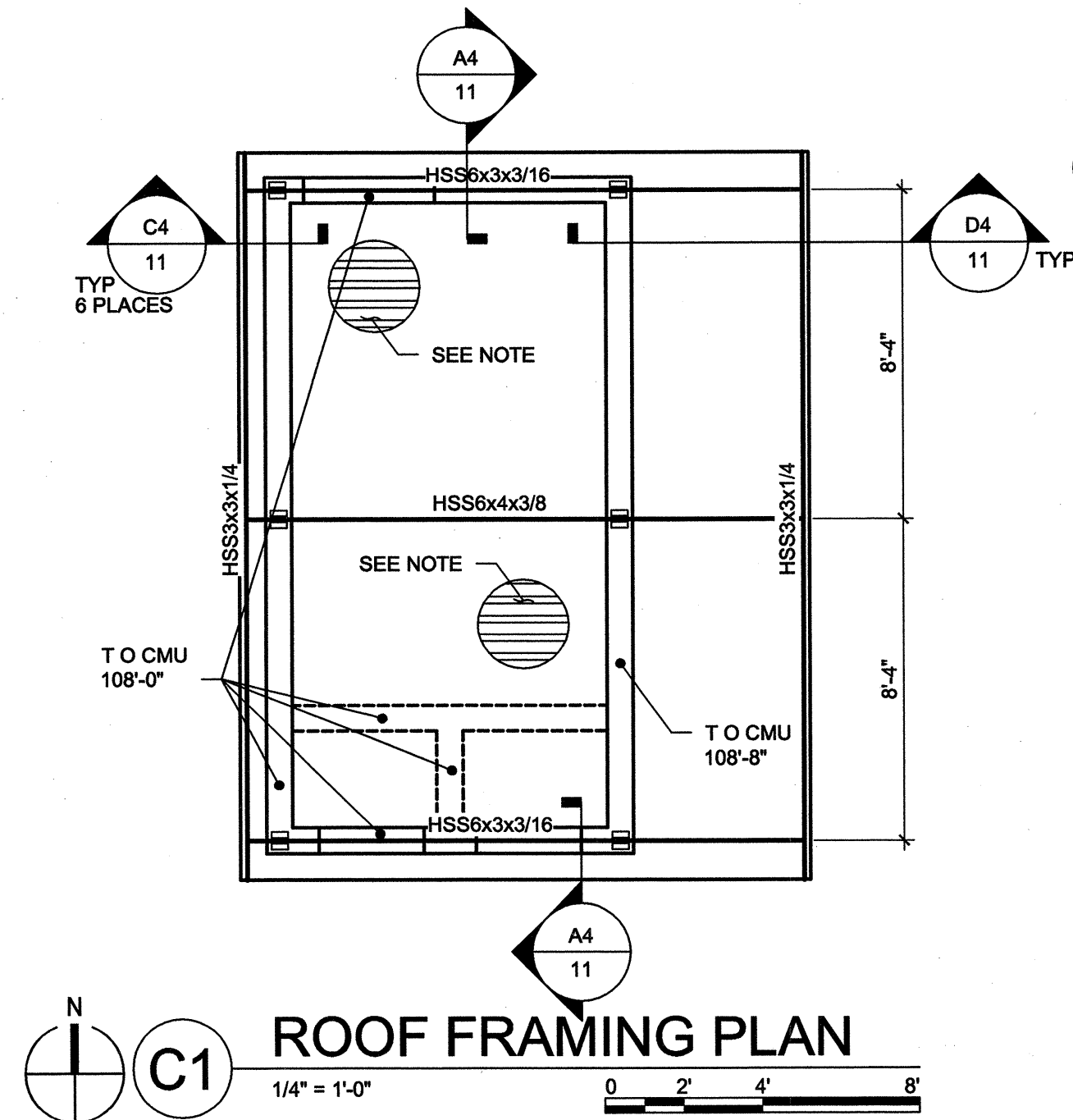
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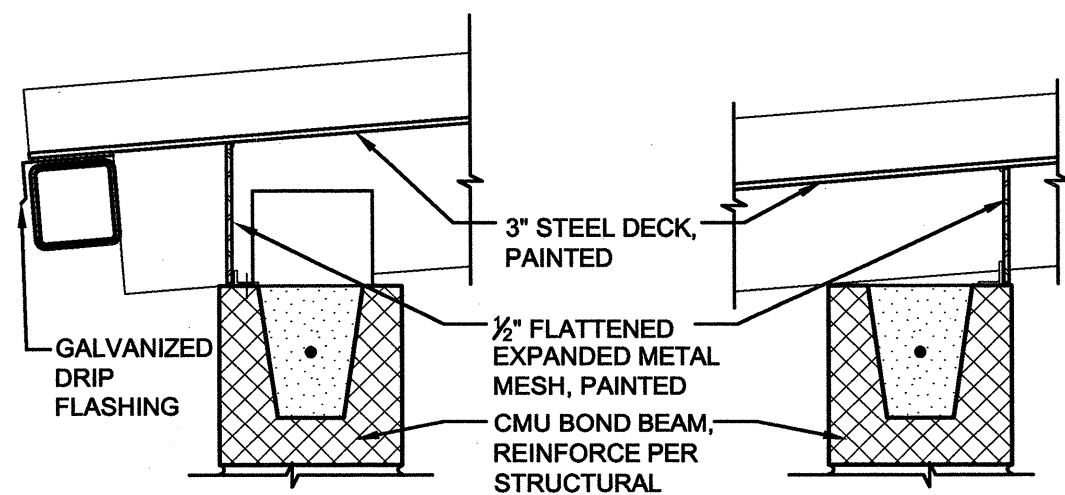
WELLS PARK WATERPLAY

PROJECT #568503
May 16, 2011

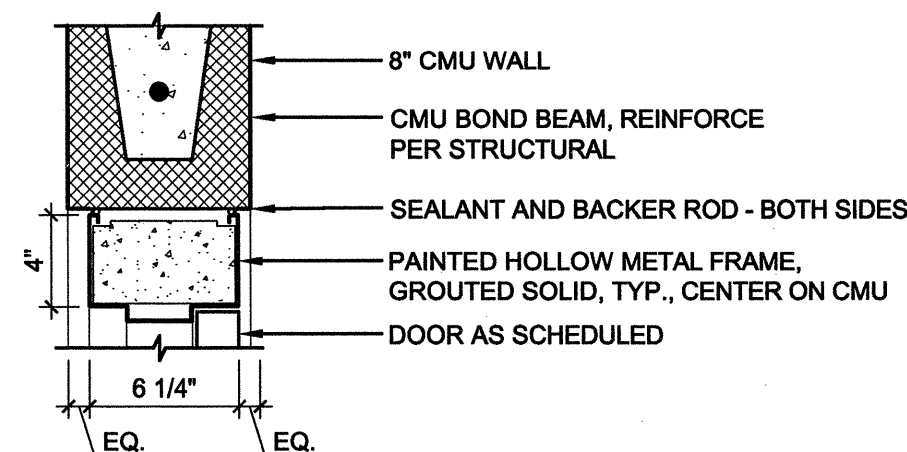
RECORD DRAWINGS

NOTE:
ROOF DECK IS TO BE 3" x 18 GA TYPE N, GALVANIZED (G90), WITH OVERLAPPING SIDE LAPS. SEE SECTION A4 FOR ATTACHMENT TO SUPPORTING STRUCTURE

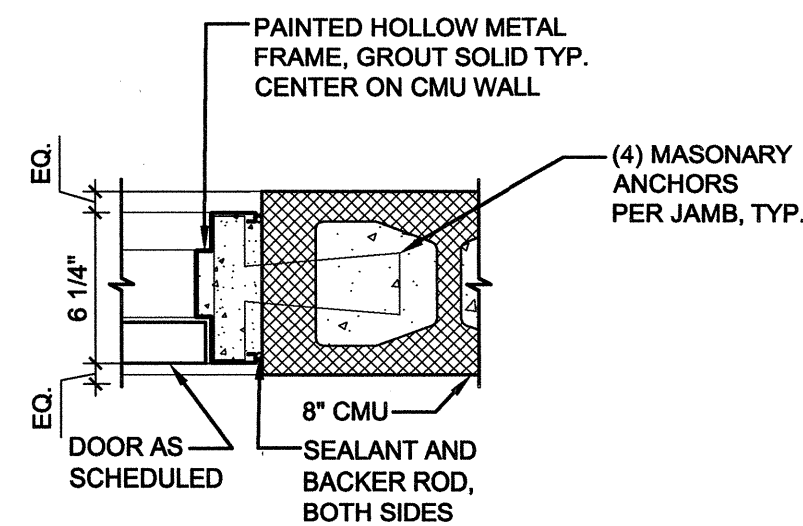




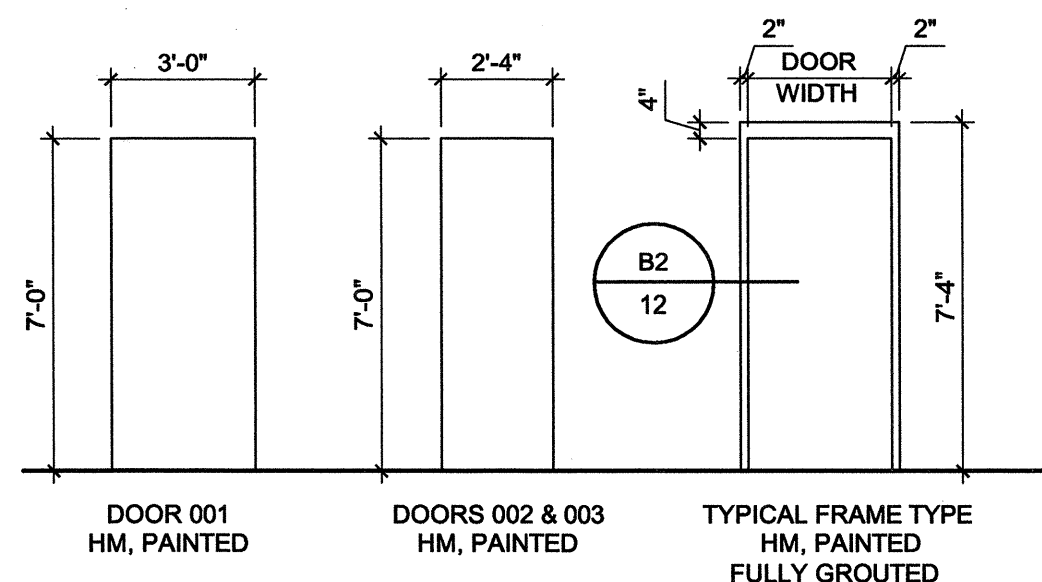
A1 ROOF DETAILS
1 1/2" = 1'-0"



B1 HEAD, TYP.
1 1/2" = 1'-0"



B2 JAMB, TYP.
1 1/2" = 1'-0"

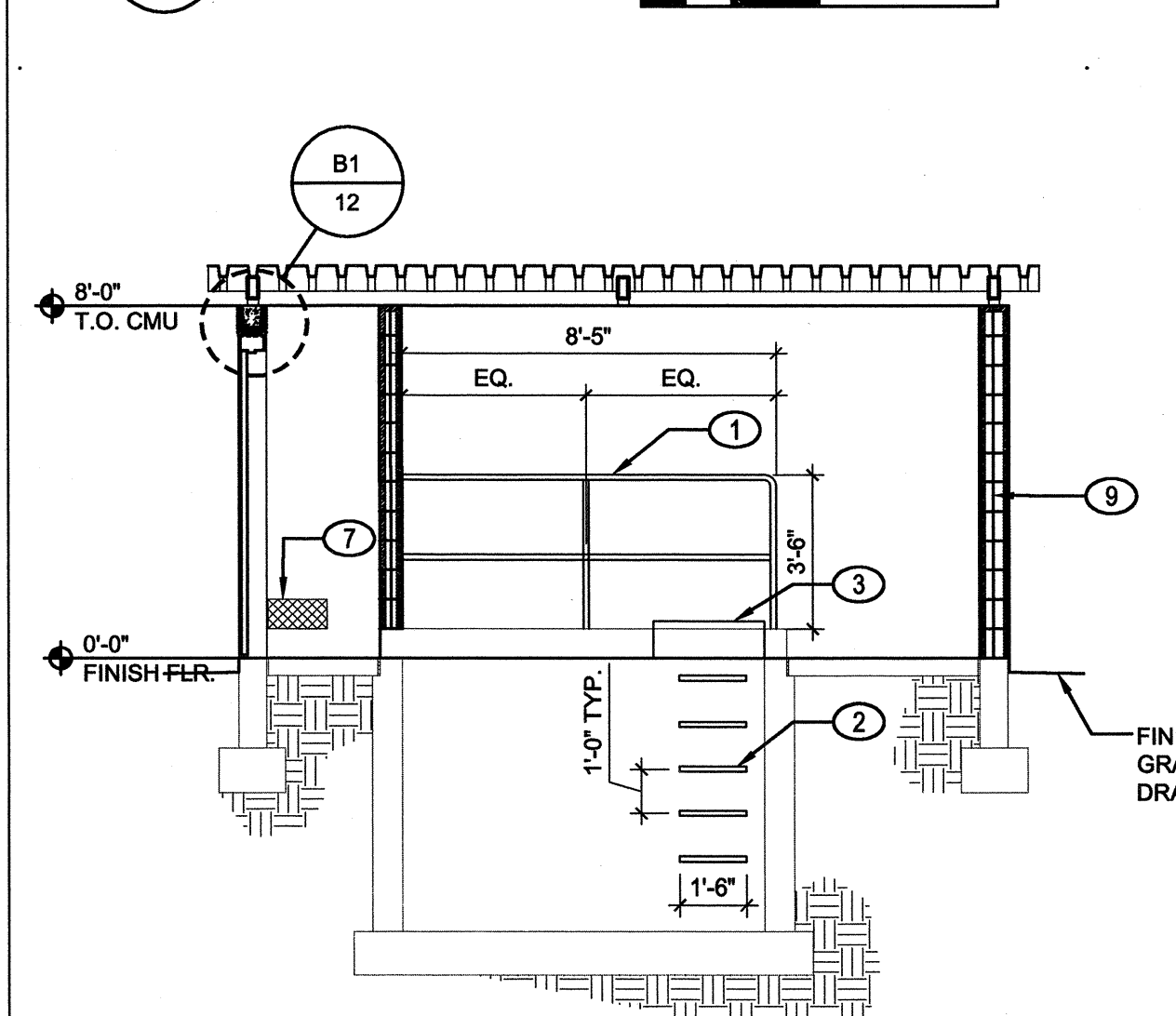
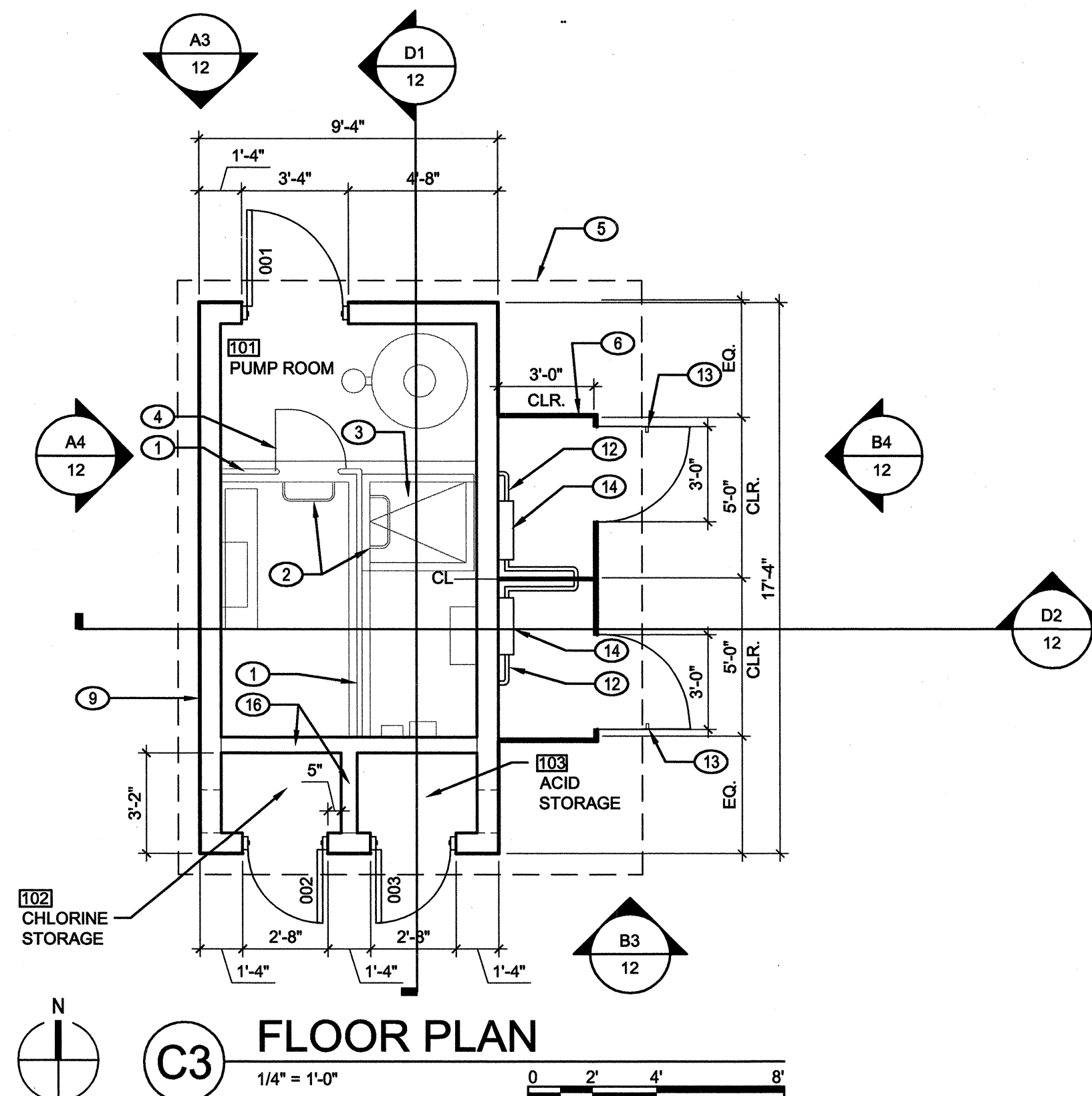
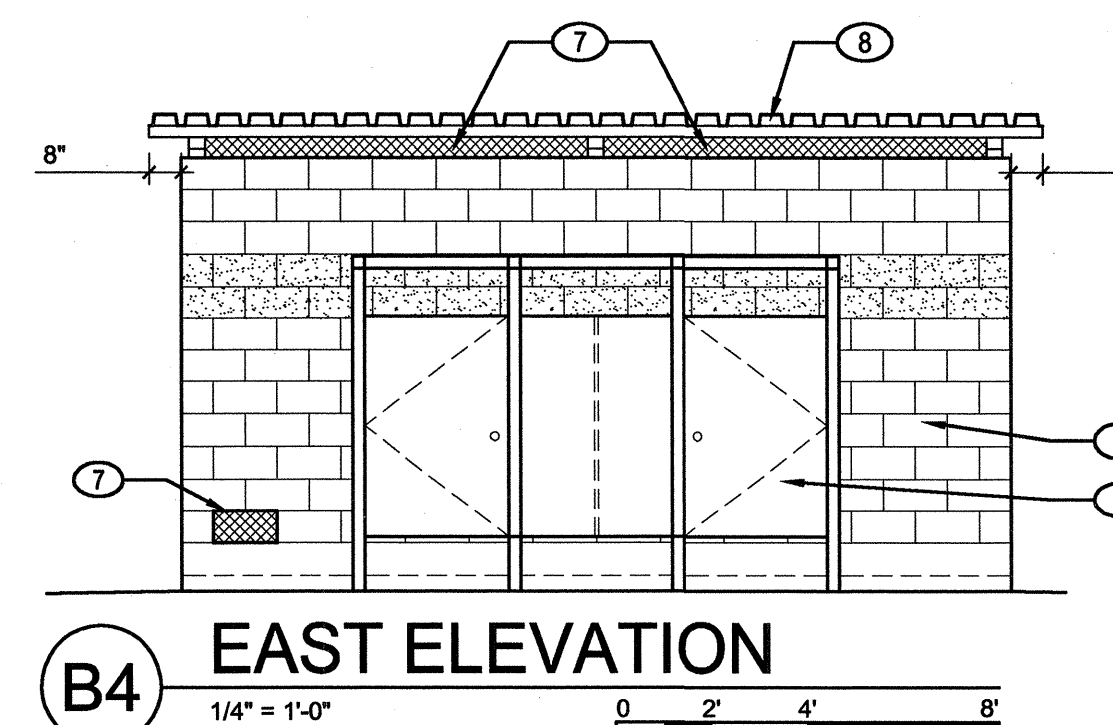
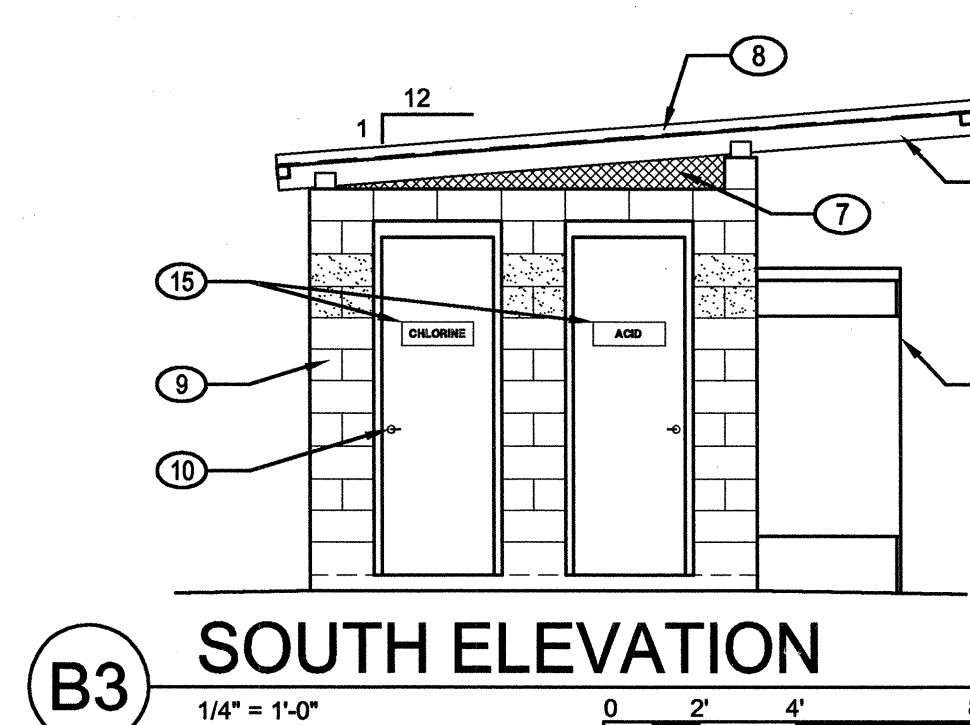
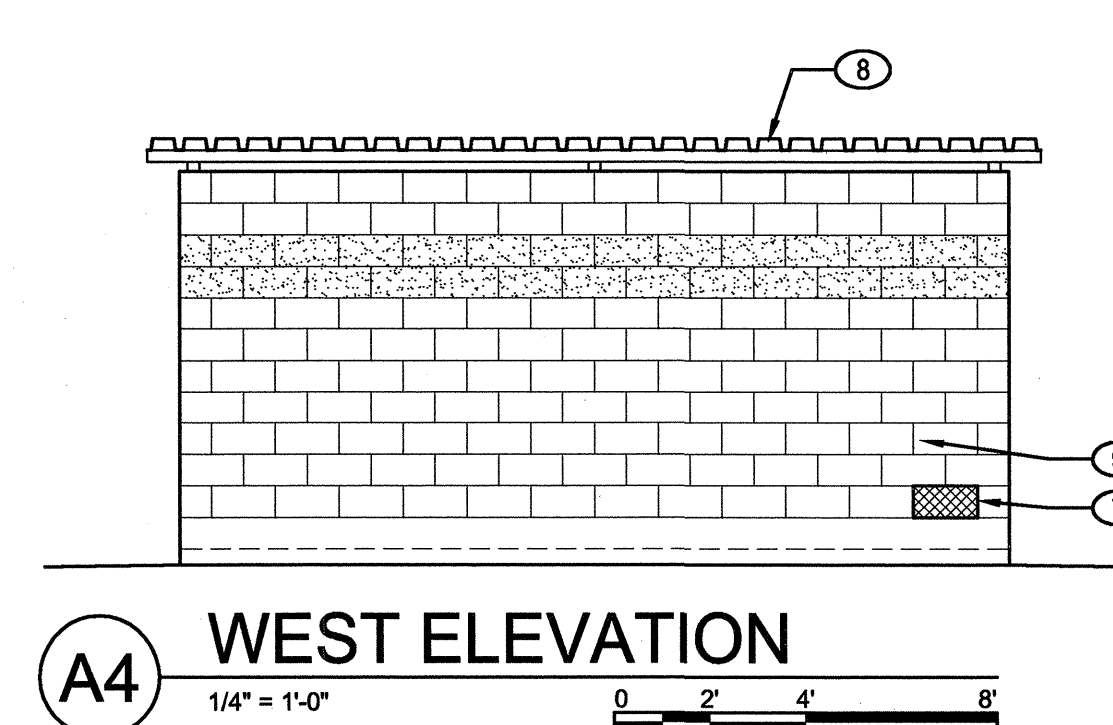
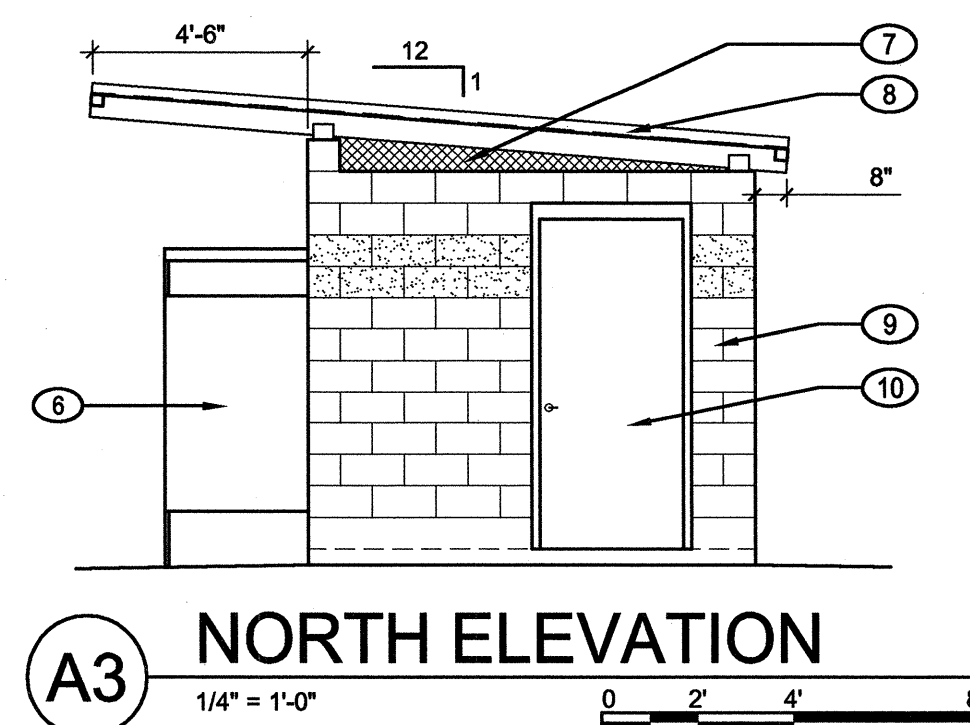


C1 DOOR & FRAME TYPES
1/4" = 1'-0"

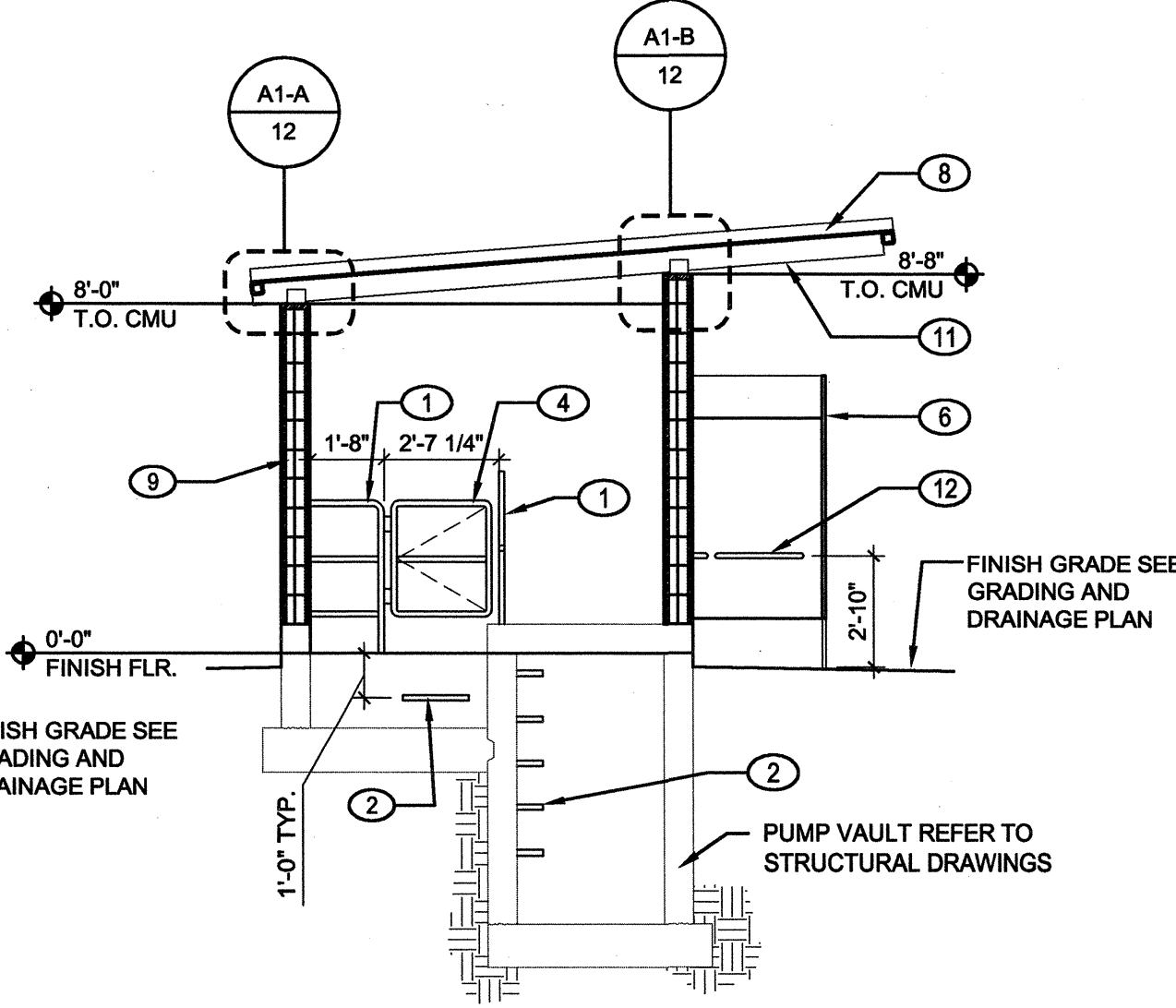
DOOR HARDWARE SCHEDULE:

HW SET: 01
DOOR NUMBER:
001, 002, 003

EACH TO HAVE:			
3	EA	HINGE	5BB1 4.5 X 4.5 NRP
1	EA	STOREROOM LOCK	ND96PD RHO
1	EA	LATCH GUARD	BLP-107
1	EA	SURFACE CLOSER	1461 CUSH FC X TB
1	EA	THRESHOLD	425E X D.W.
1	EA	DOOR SWEEP	200NA X D.W.
1	EA	SEALS	160S X D.S.
1	EA	DRIP CAP	16A X D.W. +4"
			652 IVE
			626 SCH
			630 DON
			689 LCN
			AL NGP
			AL NGP
			AL NGP
			CL NGP



D1 SECTION
1/4" = 1'-0"



D2 SECTION
1/4" = 1'-0"

GENERAL NOTES

- PAINT ALL EXPOSED STEEL, TYP. COLOR: ICI PAINTS, OLD MONTEREY #30YY 33/047 OR APPROVED EQUAL.
- ALL DIMENSIONS ARE TO FACE OF CMU UNLESS OTHERWISE NOTED.
- STRUCTURE SHOWN IN SECTIONS IS DESCRIPTIVE AND IS INTENDED TO SHOW THE GENERAL RELATIONSHIPS OF BUILDING COMPONENTS. REFER TO STRUCTURAL DRAWINGS FOR CONNECTIONS, SIZES FRAMING DETAILS, ETC.
- GRADE AT BUILDING IS TO SLOPE AWAY FROM BUILDING. SEE GRADING PLAN.

KEY NOTES

- 1 1/2" PAINTED STEEL GUARDRAIL. PAINTED.
- 3/4" DIAMETER STEEL RUNGS EMBEDDED IN CONCRETE. PROVIDE SLIP RESISTANT COATING.
- ACCESS HATCH
- 2' WIDE ACCESS GATE. PAINTED.
- ROOF OVERHANG ABOVE
- SHOWER PARTITIONS, BASIS OF DESIGN: SCRANTON PRODUCTS MOSAIC PARTITIONS, COLOR: BLUESTONE, ALUMINUM HARDWARE, OVERHEAD BRACED STYLE, CONTACT: SCRANTON PRODUCTS, 800-445-5148 OR METPAR POLLY PARTITION, COLOR: GRAY DAWN, ALUMINUM HARDWARE, OVERHEAD BRACED STYLE, CONTACT: DIVISION 10 MATERIALS, 505-341-4087 OR EQUAL.
- EXPANDED STEEL MESH FOR VENTILATION. PAINTED.
- 3" TYPE "N" STEEL ROOF DECK WITH GASKETED SEAMS. PAINTED.
- 8" CMU WITH SEALER FINISH, BOTH EXTERIOR AND INTERIOR, SEE LEGEND FOR TYPES
- DOOR AND FRAME AS SCHEDULED
- STEEL ROOF FRAMING, PAINTED. REFERENCE STRUCTURAL DRAWINGS
- GRAB BARS FOR ACCESSIBILITY, MEET 2004 ADAAG REQUIREMENTS
- TOWEL HOOK
- SHOWER ASSEMBLY, RE: MECHANICAL DRAWINGS
- PAINTED SIGN AT STORAGE ROOM DOOR, WHITE BACKGROUND WITH 2" BLACK LETTERS.
- 6" CMU BLOCK, COLOR NATURAL GRAY

EXTERIOR FINISH LEGEND

- BURNISHED FACE 8" CMU - COLOR: 940
- STANDARD FACE 8" CMU - COLOR: 940

NOTE:

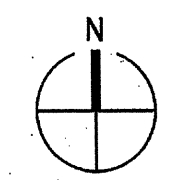
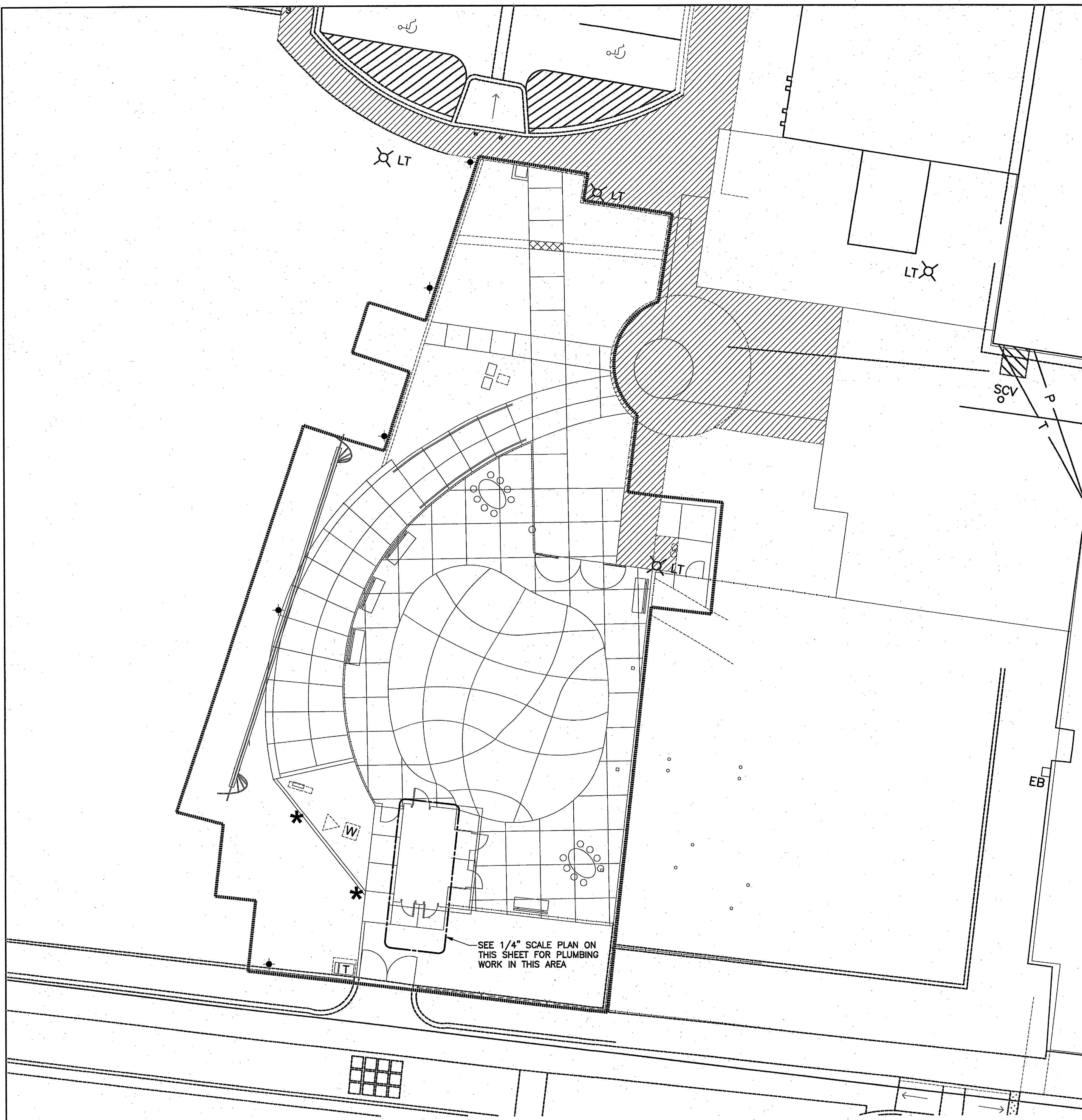
ALL CMU SURFACES, EXTERIOR AND INTERIOR ARE TO RECEIVE SUREKLEAN WEATHER SEAL SILOXANE WB CONCENTRATE, BY PROSOCO WATER REPELLENT (800-255-4255) OR EQUAL.



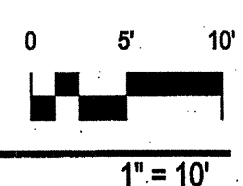
CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT	
TITLE: WELLS PARK WATERPLAY PUMP BUILDING FLOORPLAN AND DETAILS	
Design Review Committee	City Engineer Approval
Design Update	No. / Day / Yr.
City Project No. 568503	Zone Map No. J-14-Z
Sheet 12 of 18	

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION			
CONTRACTOR	DATE	DATE	DATE	BENCHMARK	DATE	DATE	DATE	FIELD NOTES	DATE	DATE	DATE
WORK STARTED BY	DATE	DATE	DATE					NO.			
STAKED BY	DATE	DATE	DATE								
ACCEPTANCE BY	DATE	DATE	DATE								
FIELD ACCEPTANCE BY	DATE	DATE	DATE								
DRAWINGS BY	DATE	DATE	DATE								
CORRECTED BY	DATE	DATE	DATE								
MICRO-FILM INFORMATION	DATE	DATE	DATE								
RECORDED BY	DATE	DATE	DATE								
NO.											



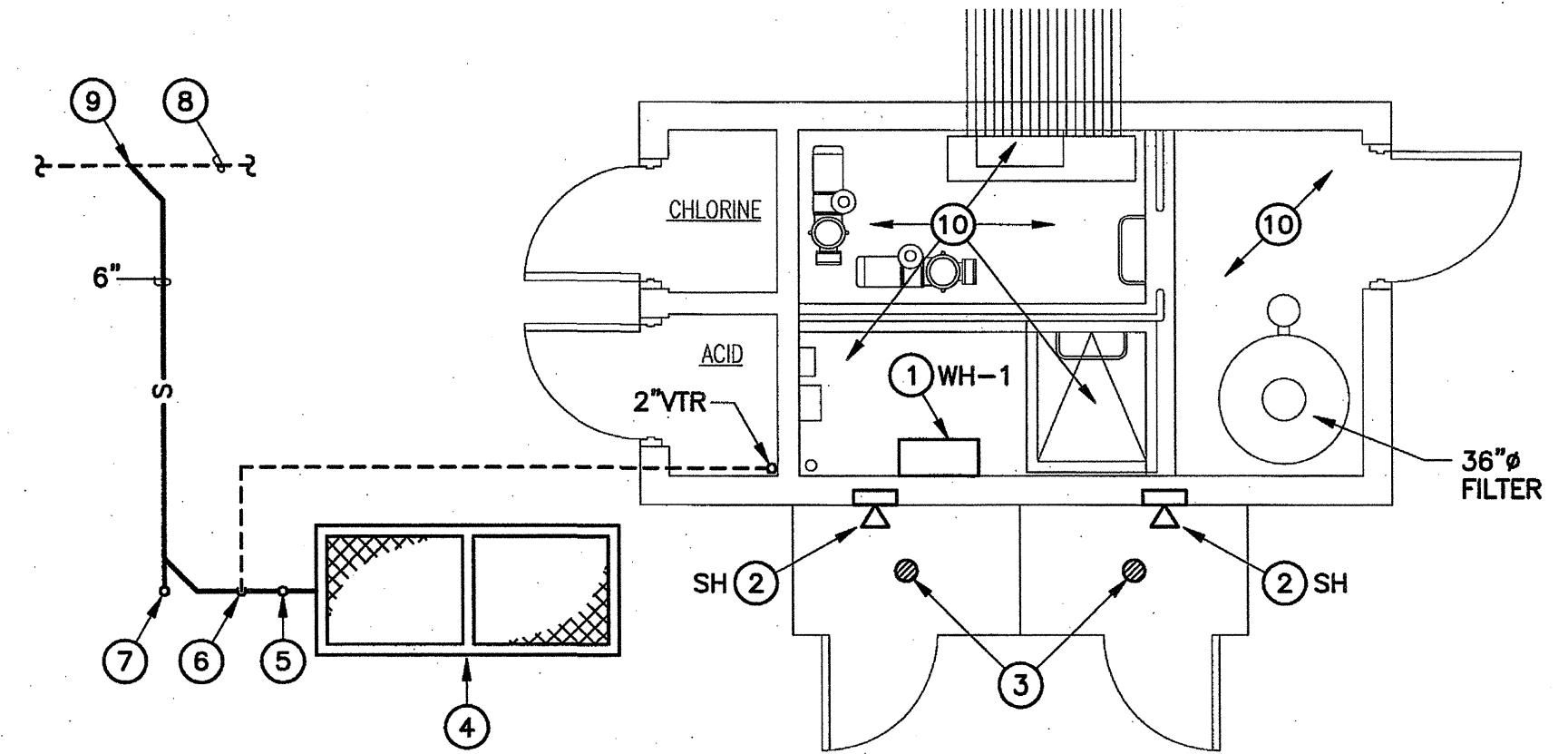


MECHANICAL PLAN



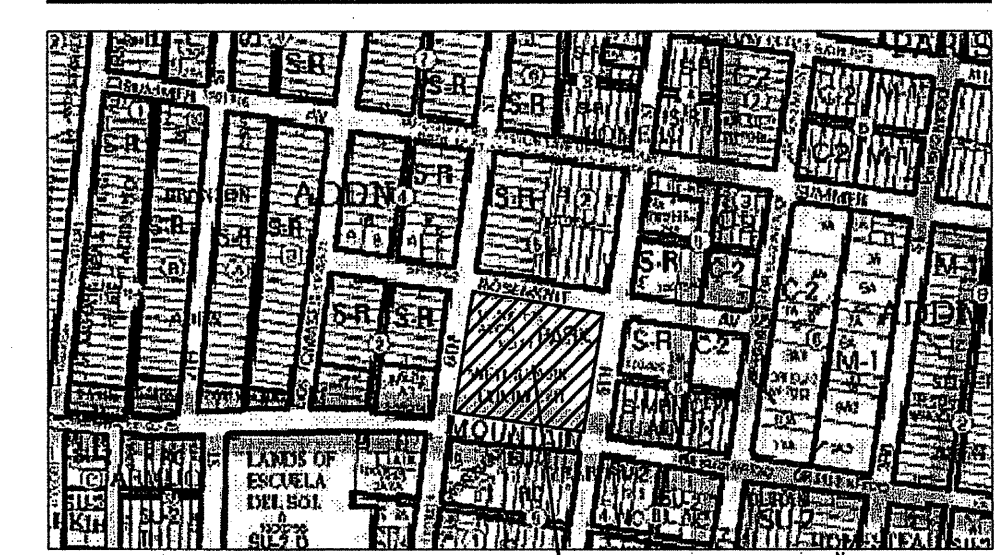
KEYED NOTES

- 1 PROVIDE AND INSTALL WH-1 ON WALL, SEE PLUMBING SCHEMATIC FOR PIPING.
- 2 PROVIDE AND INSTALL SH RECESSED IN WALL, SEE PLUMBING SCHEMATIC FOR PIPING.
- 3 SHOWER DRAINS UNDER OTHER SECTIONS OF CONTRACT.
- 4 PROVIDE AND INSTALL SAND TRAP, SEE DETAIL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH FINAL POSITION OF 36" DIAMETER FILTER WASH DOWN DISCHARGE PIPE PRIOR TO INSTALLATION.
- 5 PROVIDE AND INSTALL CLEAN OUT TO GRADE, SEE DETAIL.
- 6 PROVIDE AND INSTALL 2" VENT LINE AND EXTEND BELOW GRADE TO EQUIPMENT BUILDING, SEE DETAIL.
- 7 PROVIDE AND INSTALL CLEANOUT TO FINISH GRADE, SEE DETAIL.
- 8 NEW SEWER LINE INSTALL UNDER OTHER SECTIONS OF CONTRACT.
- 9 CONNECT NEW 6" SOIL LINE TO SEWER LINE IN THIS APPROXIMATE AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT PRIOR TO INSTALLING SAND TRAP AND DRAIN PIPING.
- 10 COORDINATE WORK SHOWN WITH OTHER WORK REQUIRED IN OTHER SECTIONS OF THIS CONTRACT.



4 SPRAY PARK EQUIPMENT ROOM PLAN - MECHANICAL
 SP1 SCALE: 1/4" = 1'-0"

SITE MAP



Coupland - Moran Engineers, Inc.
 Mechanical / Electrical Consulting Engineers
 6001 Indian School Road, N.E. Suite 200 Albuquerque, New Mexico 87110
 Phone (505) 314-7500 Fax (505) 314-7501

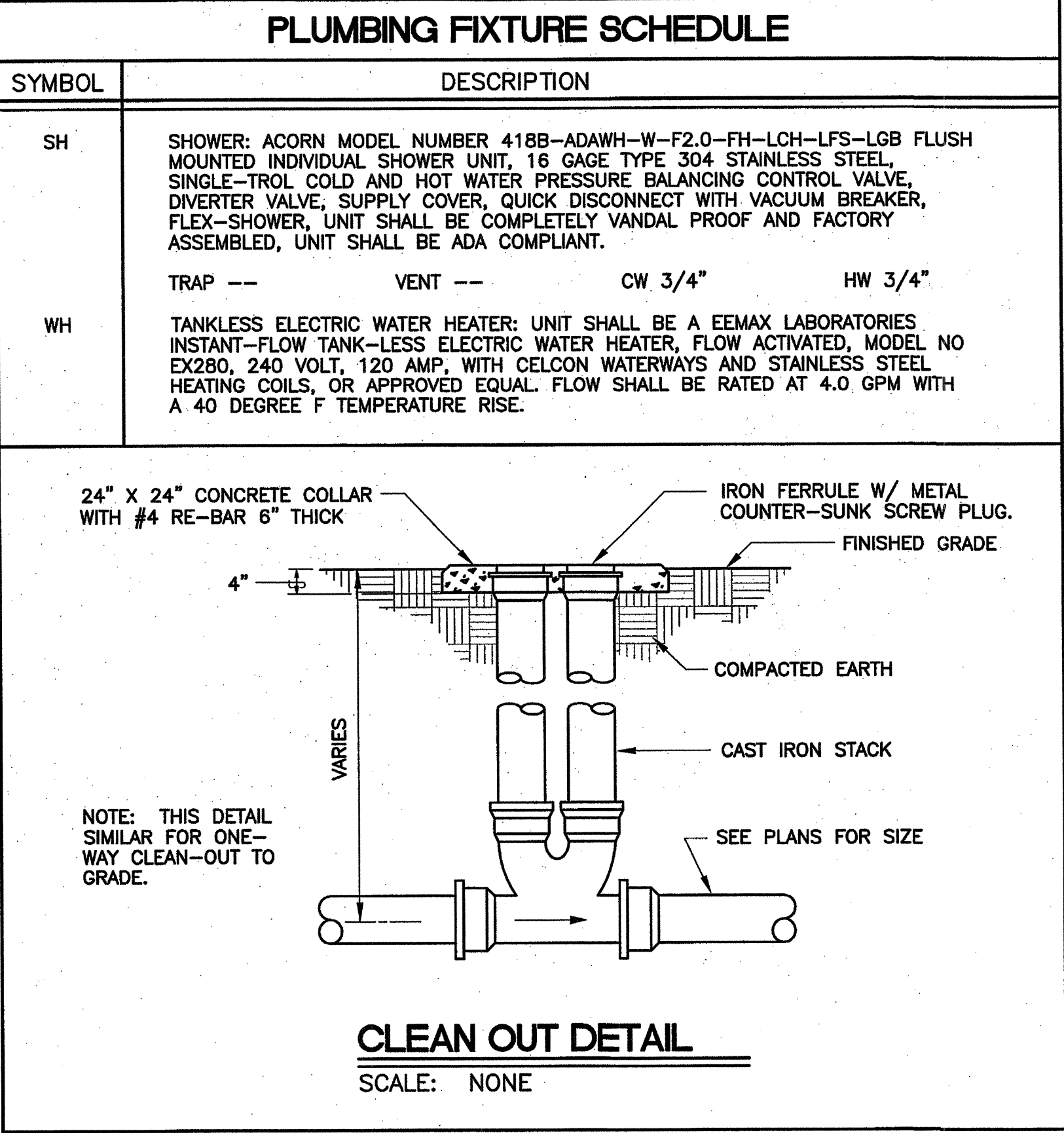
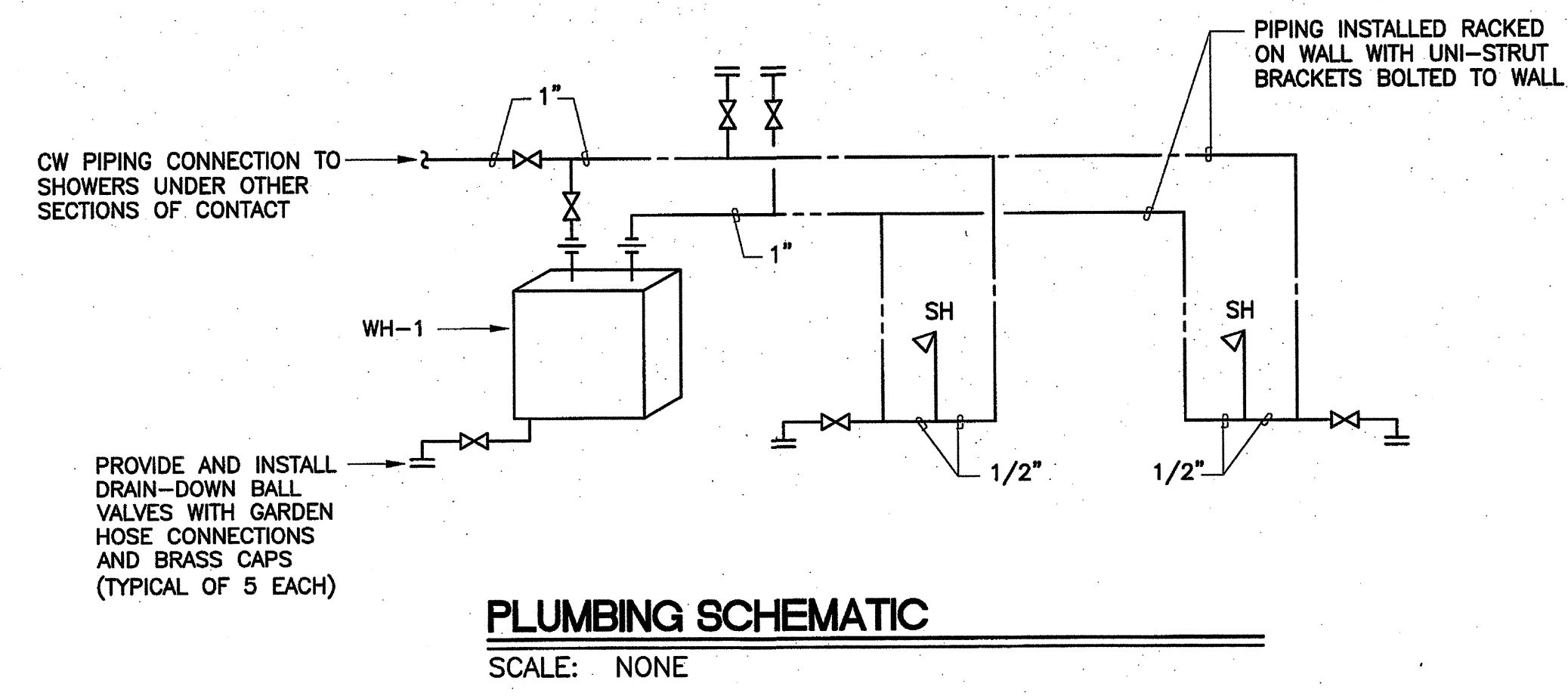
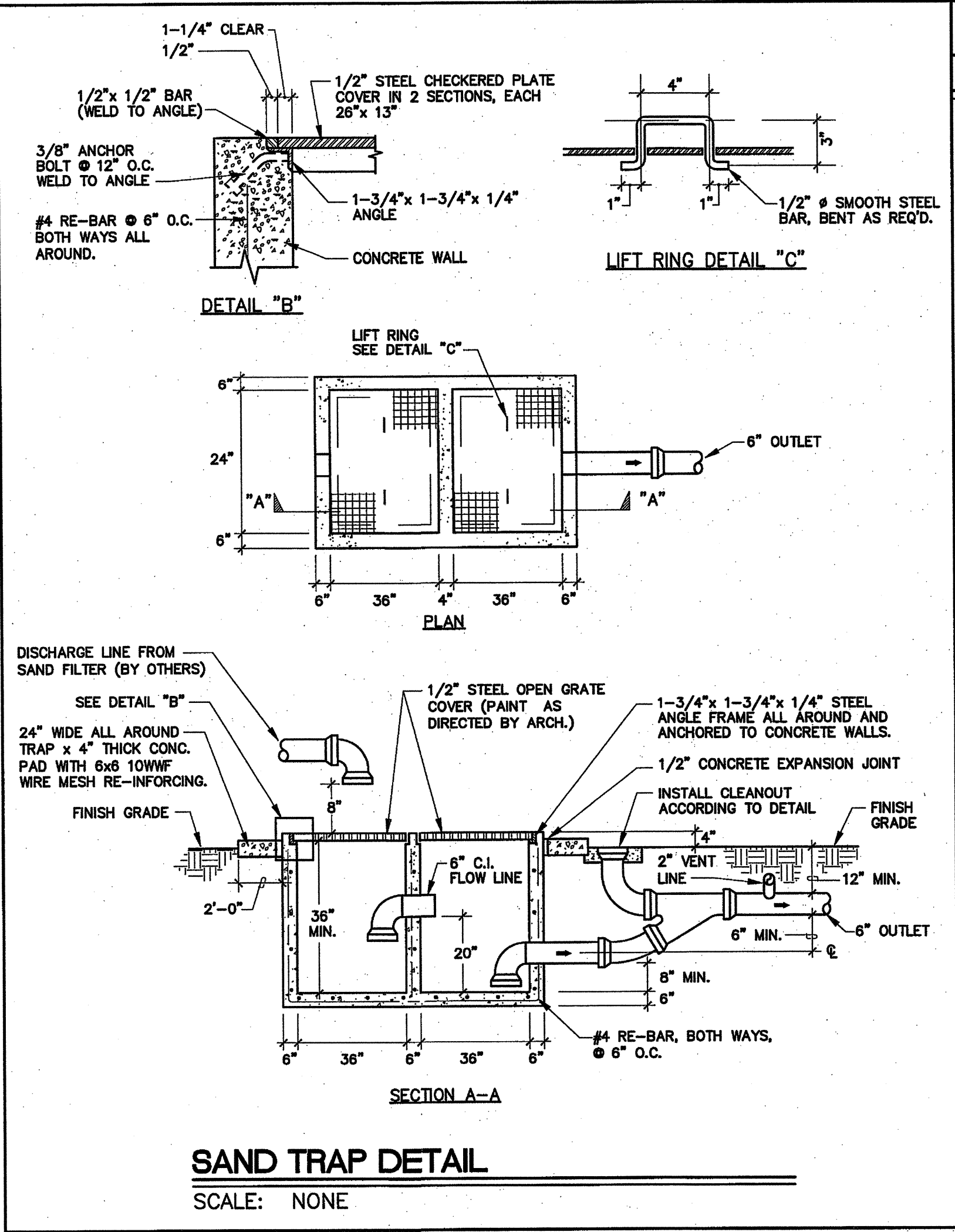
Dekker/Perich/Sabatini
 architecture • interiors • landscape • planning • engineering
 7801 Johnson NE, Suite 100 Albuquerque, NM 87109
 505 761-9700 fax 761-4222

CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT					
TITLE:		WELLS PARK WATERPLAY MECHANICAL PLAN			
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.	
City Project No.		568503	Zone Map No. J-14-Z	Sheet 13	of 18

SURVEY INFORMATION		FIELD NOTES	
NO.	BY	DATE	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS / REVISIONS	BY



PLUMBING FIXTURE SCHEDULE	
SYMBOL	DESCRIPTION
SH	SHOWER: ACORN MODEL NUMBER 418B-ADAWH-W-F2.0-FH-LCH-LFS-LGB FLUSH MOUNTED INDIVIDUAL SHOWER UNIT, 18 GAGE TYPE 304 STAINLESS STEEL, SINGLE-TROL COLD AND HOT WATER PRESSURE BALANCING CONTROL VALVE, DIVERTER VALVE, SUPPLY COVER, QUICK DISCONNECT WITH VACUUM BREAKER, FLEX-SHOWER, UNIT SHALL BE COMPLETELY VANDAL PROOF AND FACTORY ASSEMBLED, UNIT SHALL BE ADA COMPLIANT.
WH	TANKLESS ELECTRIC WATER HEATER: UNIT SHALL BE A EEMAX LABORATORIES INSTANT-FLOW TANK-LESS ELECTRIC WATER HEATER, FLOW ACTIVATED, MODEL NO EX280, 240 VOLT, 120 AMP, WITH CELCON WATERWAYS AND STAINLESS STEEL HEATING COILS, OR APPROVED EQUAL. FLOW SHALL BE RATED AT 4.0 GPM WITH A 40 DEGREE F TEMPERATURE RISE.

GENERAL UTILITIES NOTES

- SPECIFIC: THE CONTRACTOR SHALL BEAR ALL COSTS AND BE TOTALLY RESPONSIBLE FOR ALL OF THE UTILITY SERVICES AND THEIR COMPLETE INSTALLATION, AS SHOWN ON THE CONTRACT DRAWINGS, AND/OR DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL AND MUST INCLUDE IN HIS BID, THE COST OF ALL WORK AND EQUIPMENT COMPLETE WITH ALL COMPONENTS, ACCESSORIES AND APPURTENANCES, ETC., WHETHER FURNISHED AND INSTALLED BY THE CONTRACTOR OR OTHERS (I.E., BY PUBLIC UTILITY COMPANIES OR BY MUNICIPALITIES). THE CONTRACTOR'S COSTS SHALL INCLUDE (BUT ARE NOT LIMITED TO) CHARGES FOR ALL PERMITS, LICENSES, FRONTAGE FEES, METERS, METER PITS, BACKFLOW PREVENTERS, DETECTOR CHECK VALVES, CHECK VALVES, PRESSURE REGULATORS, ETC. HE SHALL ALSO INCLUDE ALL OTHER CURRENT CHARGES THAT MAY BE REQUIRED BY PUBLIC UTILITY COMPANIES OR BY MUNICIPALITIES IN PROVIDING ALL SERVICES REQUIRED BY THIS PROJECT.
- THIS CONTRACTOR IS TOTALLY RESPONSIBLE FOR CONTACTING PUBLIC UTILITY COMPANIES, MUNICIPALITIES, AND/OR OTHERS HAVING JURISDICTION ON UTILITY SERVICES (PRIOR TO SUBMITTING HIS BID) FOR ALL CURRENT INFORMATION ON FEE CHARGES AND ALL OTHER COST EXPENSES REQUIRED IN PROVIDING COMPLETE AND FULLY OPERATING UTILITY SERVICES TO THIS PROJECT. HE SHALL INCLUDE SUCH COSTS IN HIS BID. NO ADDITIONAL COSTS TO THE PROJECT WILL BE ALLOWED FOR CONTRACTOR'S NEGLIGENCE IN ATTAINING ALL SUBJECT COSTS REQUIRED IN PROVIDING A COMPLETE INSTALLATION AND COMPLETE OPERATING UTILITY SERVICES FOR THIS PROJECT.

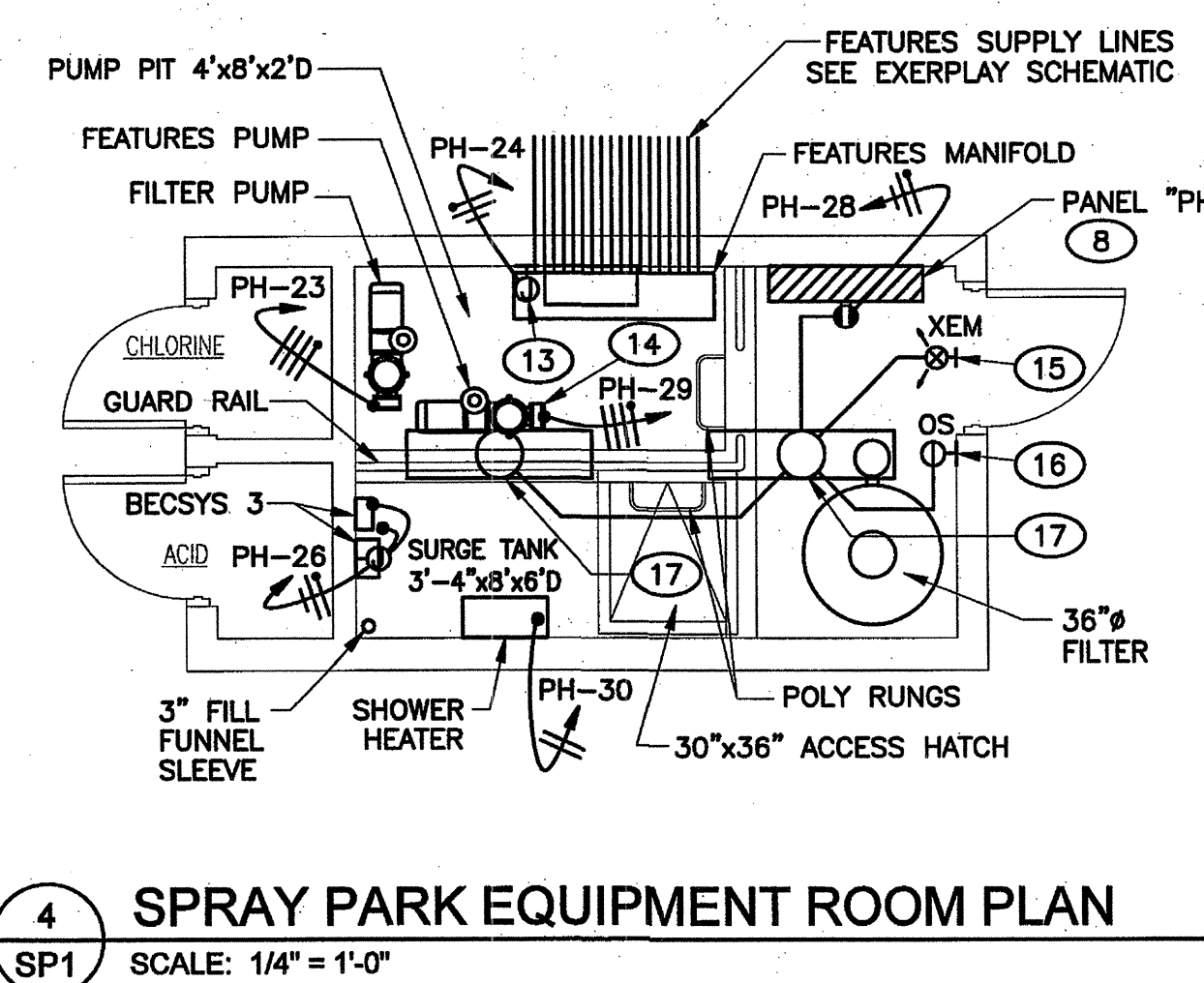
CAUTION NOTES: THE CONTRACTOR SHALL HAND EXCAVATE FOR INSTALLATION OF ALL NEW UTILITIES CROSSING EXISTING ELECTRICAL (SEE ELECTRICAL DRAWINGS) AND NATURAL GAS BURIED UTILITIES. HAND EXCAVATION SHALL BE PERFORMED SIX (6) FEET BEYOND THESE UTILITIES IN EACH DIRECTION, TYPICAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT AND PROTECTION FOR EXISTING UTILITIES BEING CROSSED BY NEW UTILITIES AND UNDERMINED BY THE REQUIRED EXCAVATION.

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505 761-9700 fax 761-4222

CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT			
TITLE: MECHANICAL SCHEDULES, SCHEMATICS & NOTES			
Design Review Committee	City Engineer Approval	Update	No. / Day / Yr.
City Project No.	568503	Zone Map No.	J-14-Z
Sheet	14	of	18

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	BENCHMARK	DATE	FIELD NOTES	DATE	ENGINEER'S SEAL	DATE
WORK STAGED BY	DATE			NO.	BY		
ACCEPTANCE BY	DATE						
FIELD INSPECTION BY	DATE						
DRAWINGS CORRECTED BY	DATE						
MICRO-FILM INFORMATION	DATE						
RECORDED BY	DATE						
NO.							



11100

CM

Coupland - Moran Engineers, Inc.

Mechanical / Electrical Consulting Engineers

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Albuquerque, New Mexico 87110 Fax (505) 214-7501

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701 Jefferson NE, Suite 100 505 761-9700
Albuquerque, NM 87109 1ax 761-4222

CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

TITLE: WELLS PARK
SITE ELECTRICAL PLAN

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
City Project No.	568503	Zone Map No. J-14-Z	Sheet 15 of 18	

KEYED NOTES

- 1 EXISTING IRRIGATION HOT BOX TO REMAIN. REMOVE EXISTING ELECTRICAL FEEDERS. ABANDON EXISTING CONDUITS IN PLACE. INSTALL NEW CONDUIT AND INSTALL NEW ELECTRICAL FEEDERS. RECONNECT TO NEW ELECTRICAL PANEL. COORDINATE IN FIELD. PROVIDE TRENCH AND BACKFILL.
- 2 EXISTING METER AND TRANSFORMER TO REMAIN. SHOWN FOR REFERENCE. REMOVE EXISTING SECONDARY CONDUCTORS TO EXISTING ELECTRICAL PANELBOARD COMPLETE. INSTALL NEW CONDUIT AND FEEDERS PER POWER RISER DIAGRAM, DEMOLITION AND NEW WORK. COORDINATE IN FIELD.
- 3 EXISTING ELECTRICAL PANELBOARD TO BE REMOVED. INTERCEPT EXISTING BRANCH CIRCUIT CONDUITS AND CONDUCTORS AND TERMINATE IN NEW IN-GRADE QUIZITE BOX. PROVIDE SPLICES TO NEW CONDUCTORS AND EXTEND TO NEW PANELBOARD. SEE POWER RISER DIAGRAM DEMOLITION AND NEW WORK. INSTALL NEW SECONDARY FEEDERS AND RECONNECT TO EXISTING ELECTRICAL SERVICE PER NOTE #2.
- 4 EXISTING LIGHT FIXTURE TO REMAIN. INTERCEPT EXISTING ELECTRICAL BRANCH CIRCUIT FEEDERS AND CONDUIT AND PROVIDE EXTENSION TO NEW PANEL LOCATION. SPLICE EXISTING CONDUCTORS TO NEW IN NEW QUIZITE BOX AND TERMINATE AS REQUIRED. COORDINATE IN FIELD.
- 5 EXISTING IRRIGATION VALVES TO BE DISCONNECTED AND RELOCATED PER NOTE #6. REMOVE EXISTING ELECTRICAL CONDUCTORS FROM EXISTING PANEL TO NEW QUIZITE BOX LOCATION. SPLICE NEW CONDUCTORS TO EXISTING. COORDINATE EXACT CONDUCTOR SIZE IN FIELD. SEE POWER RISER DIAGRAM DEMOLITION AND NEW WORK. SEE PANEL SCHEDULES FOR NEW BREAKER LOCATIONS FOR EXISTING LOADS. COORDINATE IN FIELD.
- 6 NEW LOCATION OF EXISTING IRRIGATION VALVES. RECONNECT TO EXISTING CIRCUIT.
- 7 EXISTING IRRIGATION VALVE TO REMAIN. REMOVE EXISTING ELECTRICAL FEEDERS AND RE-ROUTE EXISTING CONDUIT TO NEW PANEL LOCATION. INSTALL NEW FEEDERS AND RE-TERMINATE AS REQUIRED. PROVIDE SPLICES FROM EXISTING CONDUCTORS TO NEW AT NEW QUIZITE BOX LOCATION. SEE POWER RISER DIAGRAM DEMOLITION AND NEW WORK. SEE PANEL SCHEDULES FOR NEW BREAKERS FOR EXISTING LOADS.
- 8 NEW ELECTRICAL PANEL LOCATED IN NEW PUMP HOUSE.
- 9 SEE ENLARGED PLAN THIS SHEET FOR ADDITIONAL ELECTRICAL WORK.
- 10 NEW IN-GRADE QUIZITE BOX WITH TRAFFIC RATED COVER. SEE POWER RISER DIAGRAM NEW WORK AND DEMOLITION.
- 11 EXISTING SECONDARY CONDUCTORS TO BE REMOVED COMPLETE. ABANDON EXISTING CONDUIT SYSTEMS IN PLACE.
- 12 NEW UNDERGROUND SECONDARY. SEE POWER RISER DIAGRAM.
- 13 CONTROL PANEL. PROVIDE ELECTRICAL CONNECTIONS AS REQUIRED. COORDINATE WITH WATER PLAY CONTRACTOR.
- 14 PROVIDE SINGLE POINT CONNECTION TO PUMPS. USE LINE OF SITE RULE PER NEC.
- 15 PROVIDE AND INSTALL EMERGENCY BATTERY EXIT WITH EGRESS HEADS. SURE-LITES #UX7-1-G-WH-HAZ WITH UEL SELF POWERED HEADS. 120V.
- 16 PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR. IN WALL, WATT STOPPER #DW-100 OR EQUAL.
- 17 PROVIDE AND INSTALL VAPOR PROOF LIGHTING FIXTURES. COOPER #Y72-232-DR-120V-LEOCB, COLD WEATHER BALLAST. PROVIDE WITH (2) 32 WATT LAMPS. MOUNT TO STRUCTURE.

[illegible]

RECORD DRAWINGS	PROJECT #588503	DATE: 5/6/11	WELLS PARK WATERPLAY	FINAL FOR CONSTRUCTION	X

PANEL

PH

DESCRIPTION

208/120V, 3PH, 4W, 400 AMP MAIN CIRCUIT BREAKER, 10,000 AIC, SURFACE MOUNTED, DOOR-IN-DOOR, NEUTRAL BAR, GROUND BAR, NEMA 4X

Sub-Feed

CCT NO.	LOAD CODE	Load Code	LOAD DESCRIPTION	BKR SIZE	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BKR SIZE	LOAD DESCRIPTION	Load Code	LOAD CODE	CCT NO.
1	2		EXISTING LOAD	20A/1P	500	1000			500	20A/1P	EXISTING LOAD		2	2
3	2		EXISTING LOAD	20A/1P	500		1000		500	20A/1P	EXISTING LOAD		2	4
5	2		EXISTING LOAD	20A/1P	500			1000	500	20A/1P	EXISTING LOAD		2	6
7	2		EXISTING LOAD	20A/1P	500	1000			500	20A/1P	EXISTING LOAD		2	8
9	2		EXISTING LOAD	20A/1P	500		1000		500	20A/1P	EXISTING LOAD		2	10
11	2		EXISTING LOAD	20A/1P	500			1000	500	20A/1P	EXISTING LOAD		2	12
13	1		EXISTING LOAD	20A/1P	1000	2000			1000	20A/1P	EXISTING LOAD		1	14
15	1		EXISTING LOAD	20A/1P	1000		2000		1000	20A/1P	EXISTING LOAD		1	16
17	1		EXISTING LOAD	20A/1P	1000			1000	500	20A/1P	SPARE		1	18
19	1		EXISTING LOAD	20A/1P	1000	1000			500	20A/1P	SPARE		1	20
21	1		EXISTING LOAD	20A/1P	1000		1000		500	20A/1P	SPARE		1	22
23	6		FILTER PUMP	20A/3P	576			1296	720	15A/1P	WATER PLAY CONTROLLER		2	24
25	6		***	***	576	1076			500	20A/1P	CHEMICAL CONTROLLER		2	26
27	6		***	***	576		1076		500	20A/1P	GEN PURPOSE AND LTG		1	28
29	6		FEATURES PUMP	20A/3P	1320			15720	14400	150A/2P	WATER HEATER		6	30
31	6		***	***	1320	15720			14400	***	***		6	32
33	6		***	***	1320		1320							34
35								0						36
37						0								38
39							0							40
41								0						42
Feed-Thru						21796	7396	20016						
Spare						9.8								
Total KVA						59.0	208V	164	Amps					

Feed-Thru

21796

9.8

59.0

208V

164

Amps

Information

Calc. Loads

Insert

Job No: 111008

Project: Wells Park

Location: COA

Architect: DPS

Date: 4/8/2011

Project Status: Final Design

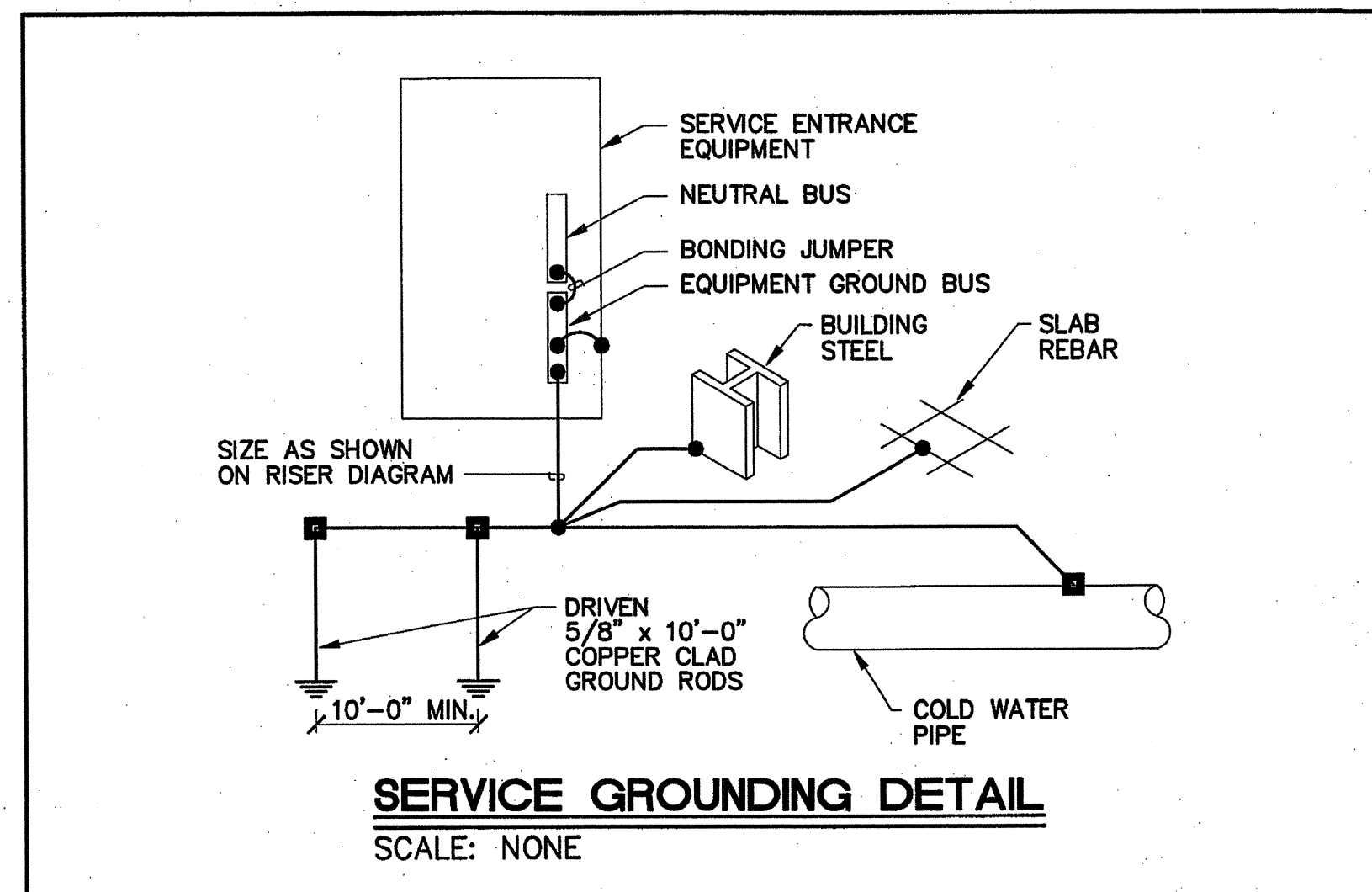
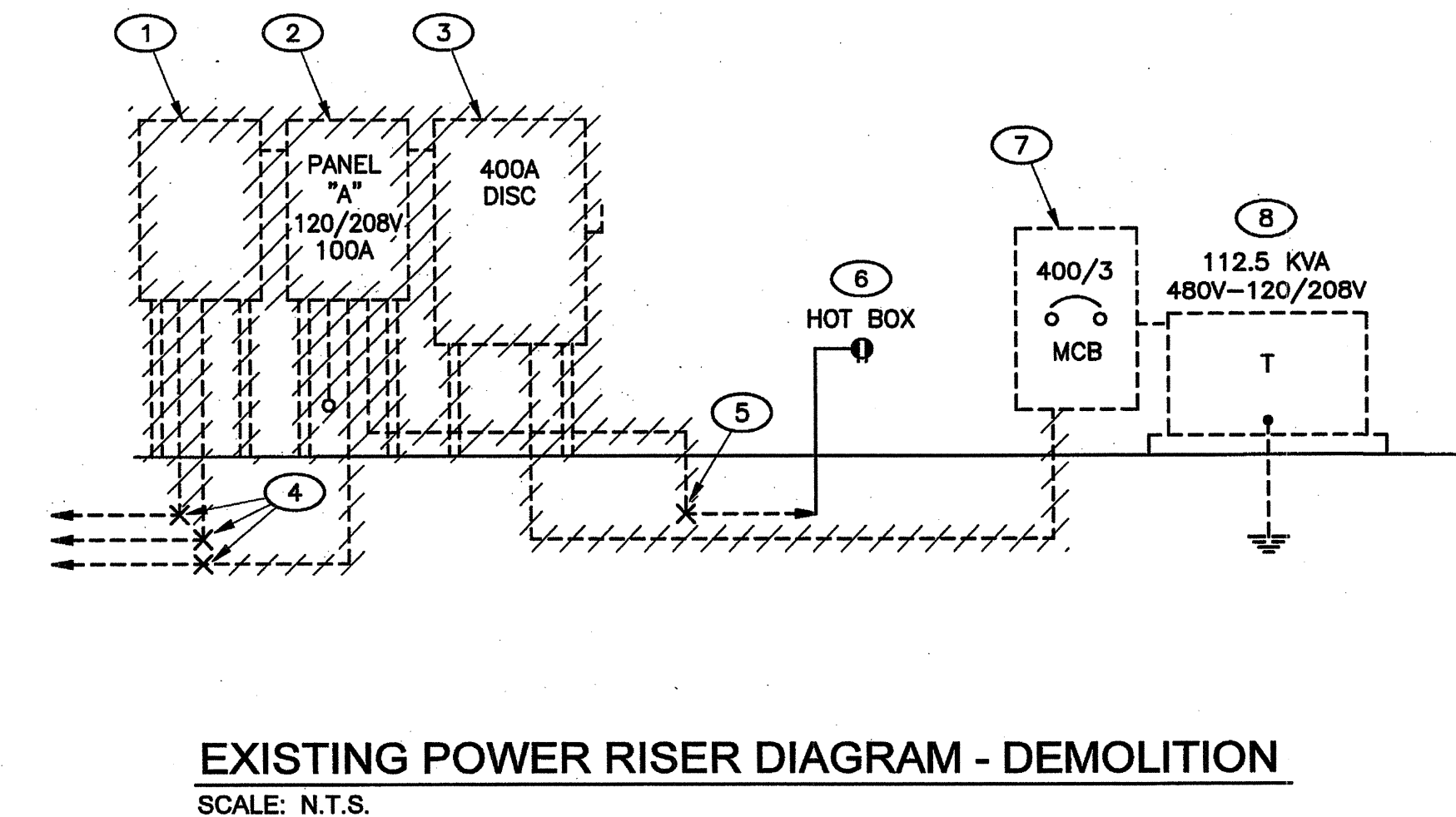
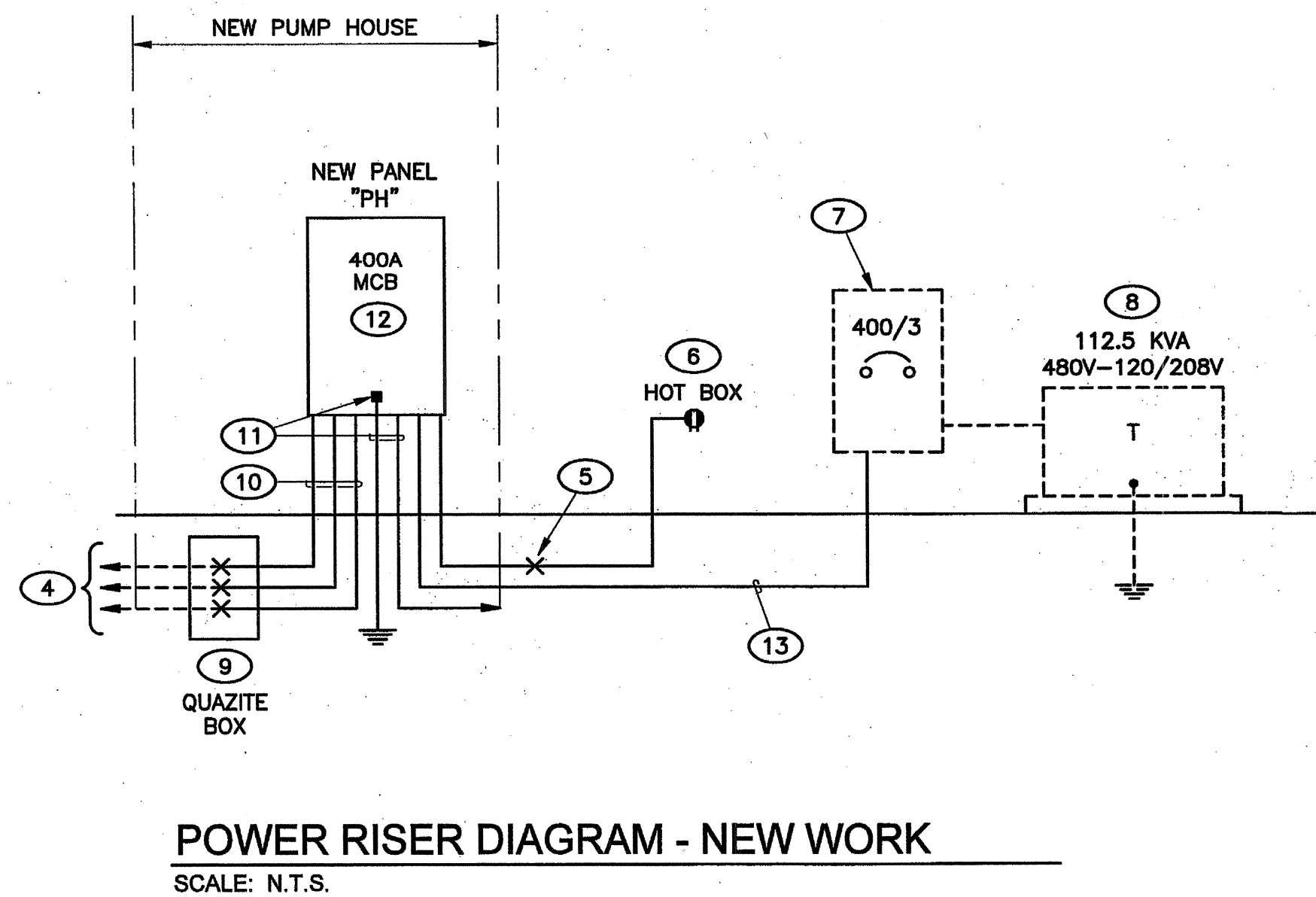
Prepared By: J.Metting

Checked By: D.Romero

CONNECTED LOADS (KVA)

Load Codes	0	1	2	3	4	5	6	7	8	9	10	
Panel	Not Assigned	Lighting	Recept	Computer	Kitchen	Laundry	Misc 1	Misc 2	Heating	Cooling	Sub-Feed	Total
												0.
Total Connected	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.
Total Demand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.

DEMAND LOADS (KVA)												
Load Codes	0	1	2	3	4	5	6	7	8	9	10	
Panel	Not Assigned	Lighting	Recept	Computer	Kitchen	Laundry	Misc 1	Misc 2	Heating	Cooling	Sub-Feed	Total
1st Stage KVA	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1st Stage Percent	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1st Stage Demand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2nd Stage KVA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2nd Stage Percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2nd Stage Demand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Remaining Percent	100.0	125.0	50.0	125.0	65.0	50.0	125.0	125.0	125.0	125.0	125.0	
Remaining Demand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Demand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Larger Of									9	8		
Total Demand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



KEYED NOTES

- EXISTING STAGE LIGHTING CONTROLLER TO BE REMOVED AND RELOCATED TO INSIDE NEW PUMP ROOM. INSTALL EXISTING COMPONENTS ADJACENT NEW ELECTRICAL PANEL AND PROVIDE IN NEMA 4X ENCLOSURE. RECONNECT TO EXISTING LIGHTING FIXTURES. COORDINATE IN FIELD AND COMPLY AS REQUIRED.
- EXISTING 100A PANEL TO BE REMOVED. RELOCATE ALL EXISTING LOADS INTO NEW PANEL "PH" AND RE-CONNECT. SEE PLANS AND NEW WORK RISER DIAGRAM.
- EXISTING 400A MAIN DISCONNECT TO BE REMOVED.
- EXISTING 120V CIRCUITS TO BE INTERCEPTED. INSTALL QUAZITE BOX IN GRADE WITH TRAFFIC RATED COVER. PROVIDE WATERPROOF SPLICES AND EXTEND MATCHING CONDUCTORS TO NEW PANEL "PH". SEE PANEL SCHEDULE FOR QUANTITIES OF EXISTING CIRCUITS TO BE SPLICED AND RE-TERMINATED.
- INTERCEPT EXISTING HOT BOX CIRCUIT AND EXTEND TO NEW PANEL "PH". RE-PULL CONDUCTORS COMPLETE.
- EXISTING HOT BOX OUTLET TO REMAIN.
- EXISTING 400A, 120/208V MAIN BREAKER IN EXISTING ENCLOSURE TO REMAIN. UTILIZE FOR NEW PANEL "PH" SERVICE. SEE NEW WORK RISER DIAGRAM.
- EXISTING PAD MOUNT TRANSFORMER SHOWN FOR REFERENCE. UTILIZE FOR NEW PANEL "PH" SERVICE.
- PROVIDE AND INSTALL NEW IN-GRADE QUAZITE BOX WITH TRAFFIC RATED LID LABELED ELECTRICAL. INTERCEPT EXISTING 75" CONDUIT SYSTEM FOR IRRIGATION CONTROLS, STAGE LIGHTING, ETC AND TERMINATE IN NEW QUAZITE BOX. SPLICE EXISTING CONDUCTORS TO NEW AND EXTEND MATCHING CONDUCTORS TO NEW PANEL "PH" IN NEW PUMP HOUSE. SEE PANEL SCHEDULE FOR QUANTITIES OF EXISTING CIRCUITS. FIELD VERIFY.
- EXTEND NEW CONDUIT AND CONDUCTORS FROM NEW QUAZITE BOX AND TERMINATE ON NEW CIRCUITS PER NOTE #9.
- PROVIDE AND INSTALL ELECTRICAL SERVICE GROUND PER NEC ARTICLE #250 AND GROUNDING DETAIL THIS SHEET. UTILIZE #3/0 CONDUCTOR TO 5/8"x10'-0" COPPER GROUND ROD AND WATER LINE.
- PROVIDE AND INSTALL NEW PANELBOARD IN PUMP HOUSE. SEE PLANS.
- EXTEND 4" CONDUIT WITH (4) 500KCMIL TO NEW PUMP HOUSE PANEL. PROVIDE TRENCH AND BACKFILL. COORDINATE ROUTING WITH EXISTING BURIED WATER AND UTILITY LINES.

ELECTRICAL SPECIFICATIONS

- THE INSTALLATION SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS APPLYING TO ELECTRICAL INSTALLATIONS AND WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL ELECTRICAL SAFETY CODE, WHICH SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS AND LICENSES REQUIRED BY LOCAL AND STATE AUTHORITIES. THE INSTALLATION OF ALL ELECTRICAL SYSTEMS SHALL BE DONE IN A FIRST-CLASS WORKMAN LIKE MANNER BY QUALIFIED PERSONNEL.
- ALL MATERIALS SHALL BE NEW EXCEPT WHERE NOTED OTHERWISE. ALL WORK SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.
- ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE WITH THE NEC. ALUMINUM CONDUIT SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. CONDUIT INSTALLED UNDERGROUND IN CONTACT WITH EARTH OR FILL SHALL BE RIGID STEEL WITH AN 18 MIL PVC COATING OR SCHEDULE 40 PVC WITH RIGID STEEL PVC COATED ELBOWS AND RISERS. EMT OR ALUMINUM CONDUIT SHALL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE 3/4" INCH. ALL CONDUITS CONTAINING POWER CONDUCTORS SHALL CONTAIN AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. A #9 PULL WIRE SHALL BE INSTALLED IN EACH EMPTY CONDUIT.
- ALL EMT COUPLINGS AND CONNECTORS SHALL BE COMPRESSION TYPE. INDENTER OR SET-SCREW TYPE COUPLINGS AND CONNECTORS SHALL NOT BE USED.
- ALL OUTLET BOXES SHALL BE WELDED OR DEEP DRAWN ONE-PIECE STEEL. SECTIONAL BOXES SHALL NOT BE USED.
- ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM SIZE, THWN INSULATION UNLESS NOTED OTHERWISE AND SHALL BE COLOR CODED AS INDICATED IN THE NEC. INCREASE BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP AS FOLLOWS: 60' TO 100' - #10 AWG; OVER 100' - #8 AWG.
- THE CONDUIT SYSTEM AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES AND ORDINANCES. GROUNDING AND BONDING SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF THE NEC.
- ALL SWITCH AND RECEPTACLE PLATES SHALL BE STAINLESS STEEL.

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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

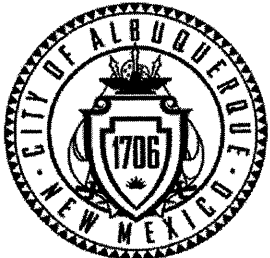
TITLE: **WELLS PARK
SITE ELECTRICAL DETAILS**

Design Review Committee	City Engineer Approval	Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. **568503** Zone Map No. **J-14-Z** Sheet **16** of **18**

AS BUILT INFORMATION		BENCHMARK		FIELD NOTES		ENGINEERS SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	WORK STARTED BY	DATE	NO.	BY	NO.	BY	NO.	DATE	DESIGNED BY	DATE
										KP	5/6/11
										KP	5/6/11
										MB/KR	5/6/11

MICRO-FILM INFORMATION		RECORD BY		NO.	
DATE	NO.	DATE	NO.	DATE	NO.



City of Albuquerque
Richard J. Berry, Mayor

Department of Municipal Development
Michael J. Riordan, P.E., Acting Director

Project Information Form

Date: 5/16/2011
Subject: Wells Park
As of (date): 5/16/2011
Project ID#:
Name of Facility: Wells Park
Address: 591 Mountain Rd. NW
Albuquerque, NM
CD: 100%
Park Zoning: REC-1 Park
☐ Developed
☐ Renovation

Detailed Park Summary Information:

Total Park Acres:		
Acres Renovated:		
Description of Project:		
Acres of Irrigated Turf (acre)	03	cool / warm season
Turf Removal:	716	square feet
Landscape Area Trees & Shrubs:	1666	square feet
Tree Count:		No new
Recycled Construction Materials:		truckload
Recycled Benches		
Recycled Tables	2	
Engineered Wood Fibers		cubic yards

Park property renovated/developed; per FINAL FOR CONSTRUCTION DOCUMENTS DATED _____ and COA specifications.

Effective date:
NO MORE CHARGES for new water, electric and gas
...will be accepted by the contractor:
...are to occur against activity numbers:

Contacts:

Project Manager, City of Albuquerque, Park Design & Construction, DMD

Project Manager: David Flores
Phone: 768-3815
Email: DFlores@cabq.gov
Fax: 768-5379

Consultant: AEM

Design Consultant: Dekker Perich Sabatini
Address: 7601 Jefferson NE, Suite 100
Contact Name: Katie Paquette / Ken Romig
Phone: 761-9700
Application: Design Liability
Landscape Architect of Record:
Name: Mimi Burns
Address: 7601 Jefferson NE, Suite 100
Phone: 761-9700
Email: mimib@dpsdesign.org

Contact Information:

Contractor:
Contact Name:
Phone:
Scope of Work:
Warranty Start Date: 00/00/00 - Expiration Date: 00/00/00

Warranty and Vendor Information:
The following is a listing of all labor, vendors and product warranties for project:
During the first year all calls regarding warranty information will go to the contractor. After one year

Vendor: Waterplay
Phone: 800-590-5552
Product: Waterplay Splash Blaster
Model#: WP C02-262
Product: Waterplay Activator
Model#: WP C02-164
Product: Waterplay Spin Soaker
Model#: WP C02-282
Product: Waterplay Daisy-Mae
Model#: WP C02-023-W
Product: Waterplay Ground Spray
Model#: WP C02-255
Product: Waterplay Spray Loop Tunnel
Model#: WP C02-059

Manufacturer warranty:
25 year warranty on the structural integrity of all stainless steel alloys that guarantees them to be free of defect, corrosion, and deterioration. 10 year warranty for stainless steel hardware. Control systems, parts and accessories are warranted for 2 years.

Vendor: Dumor
Phone: 505-281-0151
Application: Site Furnishings

Product: 6' Long Bench
Model#: 127-30

Product: Picnic Table
Model#: 198-80PL

Manufacture structural warranty:

STEEL: Limited twenty-year warranty against structural failure of all steel bench frames or complete steel bench assemblies, table frames, litter receptacle frames and steel planters.

PLASTIC LUMBER: limited twenty-year warranty against structural failure of recycled plastic—it is further warranted not to rot, split, crack, or splinter during this period

Project Name: Wells Park				
Amenities	Total Existing	# Removed	# Added	Current Total
Benches	3		5	8
Bike Racks (capacity)	0		0	0
Exercise Stations	0		0	0
Mutt Mitt Dispensers	0		0	0
Picnic Tables-ADA (6')	7	4	2	5
Picnic Tables-(6')	0		0	0
Play Areas	1		0	1
Play Areas-wood fiber (cy)	0		0	0
Play Structures (2 to 5 yrs)	1		0	1
Play Structures (5 to 12 yrs)	1		0	1
Swings Set - (1) Two Bay	0		0	0
Shade Structure	0		0	0
Trash Receptacles	2		0	2
Barrel Vaulted Gable Shelter	0		0	0
Tubular Fence - 6'	650		130	780
Chain Link Fence - 4'	480		0	480
Parking Spaces-ADA	4		0	4
Parking Spaces-standard	45		0	45

Light Pole-Single Hd Fixture-Photo cell with timer	9		0	9
Light Pole - Double Hd Fixture-Photo cell with timer	0		0	0
Basketball Courts (Full)	2		0	2
Basketball Courts (Half)	0		0	0
Off Leash Dog Area wood fiber	0		0	0
Recreation Fields	1		0	1
Skate Facility, Modular	0		0	0
Softball Fields (Lit)	0		0	0
Softball Fields (Unlit)	0		0	0
Tennis Courts (Lit)	0		0	0
Tennis Courts (Unlit)	0		0	0

Audit Information for Play Equipment, Irrigation System and Backflow Preventor

Auditor:
Phone:
Inspector Name:
Inspection Date:
Products Inspected: Play Equipment & Wood Chips

Auditor:
Phone:
Inspector Name:
Inspection Date:
Products Inspected: Landscape Irrigation Water Audit

Water Meter:
Reading: _____
Address: _____
Serial Number: _____
Type: _____
Final billing date: _____
New Service JV: _____

Electric Meter:
Reading: _____
Number: _____
Serial Number: _____
Type: _____

- ☐ Maintenance Documents
 - Keys (4-trash receptacles)
 - Benches
 - Tables
 - Play Structures
 - Shade Structures (engineered drawings and footing details)
 - Lights
 - Booster Pump
 - Irrigation Controller
- ☐ Permits (date approved)
 - Electrical ()
 - SWPPP/NOI ()
 - Building ()
 - Dust Control ()
 - Water Meter Tap ()
 - Concrete Tests
 - Compaction Tests
- ☐ Punch list complete date: 00/00/00
- ☐ Record drawings per General Conditions section 6.10
 - Reproducible as built Record Drawings for entire park project completed by a certified draftsman.
 - same scale as plans.
 - Legible, reduced laminate layout drawings of irrigation system for each controller.
 - color coded by each valve front of copy.
 - irrigation legend and scheduled back of copy.
 - irrigation schedule back of copies.
 - 11"x17" format.

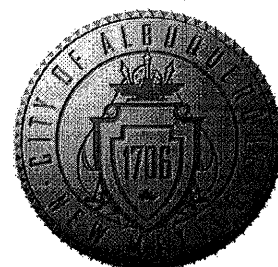
Email copies to:
szuschlag@cabq.gov, amargacia@cabq.gov, cfrenz@cabq.gov, jcasados@cabq.gov, rlostrom@cabq.gov, jeffhart@cabq.gov, Rgabaldon@cabq.gov, Idunn@cabq.gov, DFlores@cabq.gov, cmsandoval@cabq.gov

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR		BENCHMARK:		FIELD NOTES	
WORK STARTED BY	DATE	BY	DATE	NO.	
ACCEPTANCE BY	DATE				
VERIFICATION BY	DATE				
DRAWINGS CORRECTED BY	DATE				
MICRO-FILM INFORMATION					
RECORDED BY	DATE				
NO.					

ARCHITECT'S SEAL		REMARKS		BY	
		DESIGN		DATE	
		REVISIONS		DATE	
		DESIGNED BY		DATE	
		DRAWN BY		DATE	
		CHECKED BY		DATE	

architects = interiors = landscape = planning = engineering
7601 Jefferson NE, Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761-4222

CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT	
TITLE: WELLS PARK WATERPLAY FINAL ACCEPTANCE FORM	
Design Review Committee	City Engineer Approval
Last Design Update	
Mo. / Day / Yr.	
Mo. / Day / Yr.	
Mo. / Day / Yr.	
Mo. / Day / Yr.	
City Project No.	568503
Zone Map No.	J-14-Z
Sheet	17 of 18



WELLS PARK WATERPLAY

PROJECT #568503
May 16, 2011

RECORD DRAWINGS

FINAL FOR CONSTRUCTION X

1.B.C.U. APPROVED

Plan Check Section

CERTIFICATE OF OCCUPANCY REQUIRED?

YES ☐ NO ☒

SHELL CERTIFICATE OF COMPLETION REQUIRED?

YES ☐ NO ☒

APPROVAL REQUIRED PRIOR TO ISSUANCE OF CERTIFICATE?

	YES	NO
ENVIRONMENTAL HEALTH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FIRE MARSHAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HYDROLOGY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MECHANICAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PLUMBING	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BOILER	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ELEVATOR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
REFUSE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TRANSPORTATION DEVELOPMENT	<input type="checkbox"/>	<input type="checkbox"/>
BUILDING CODE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ZONING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

NOTE: Final inspections are required on all permitted work whether a Certificate of Occupancy is required or not.

IS THIS DEVELOPMENT WITHIN 1000 FT. OF A FORMER LANDFILL SITE?

☐ YES ☒ NO

- One set of approved plans shall be kept on the site of the building or work at all times during which the work authorized thereby is in progress.
- Separate permits are required for plumbing, gas and electrical work.
- For foundation-only permits, a separate set of plans must be submitted. Plumbing, mechanical and electrical work in/under the slab shall be inspected and approved before any concrete is poured.
- The issuance of a permit does not guarantee that the permit holder (owner) will receive a Certificate of Occupancy upon completion of construction. It is the permit holder's responsibility to comply with all of the requirements for a Certificate of Occupancy including obtaining water and sanitary sewer service, electrical service and natural gas service.
- The issuance of this building permit does not constitute a guarantee of water and sanitary sewer service. Such availability is determined by the Utility Development Division of the Public Works Department.
- City-approved street and alley top-of-curb elevations shall be used when establishing lot grades and rear property lines. In the event that these approved elevations are not used, the City assumes no responsibility for loss of access to property or damage to property-line walls upon construction of streets, alleys, curbs and gutters.
- Separate permits are required for retaining walls, garden walls and fences.
- Gates in walls or fences on private or public property shall not swing over sidewalks, streets, alleys or other public rights-of-way.
- Toilet facilities for the workers shall be provided at all construction sites.

(505) 924-3849

CITY ZONE Part ZONING MAP J-14 LOT ACREAGE _____

CASE/FILE NO. _____

USE T J

• **CAUTION ON LOCATION OF STRUCTURE:** City approval is contingent upon correct information being received from the owner's agent (architect, engineer, etc.). Zoning approval is for structures sited exactly as specified on these plans. Setbacks are measured from the lot lines. The lot line at the street right-of-way is not necessarily the curb or the edge of the sidewalk.

• \$_____ Park Development Fee, Park Dedication and Development Ordinance, Sections 14-9-3(A) and (B), ROA 1994.

• Landscaping and irrigation shall be designed, installed, maintained and operated as required by the Water Conservation, Landscaping and Water Waste Ordinance, 6-1, ROA 1994.

• All construction shall be in compliance with the Solar Permit Ordinance, 14-11, ROA 1994. City approval of plans is not a guarantee of approval with any private solar rights which may be recorded with the County Clerk pursuant to Section 14-9-1, NMSA, 1978.

• Proposed construction complies with the Comprehensive City Zoning Code, 14-16, ROA 1994.

CONSTRUCTION SERVICES SECTION

(505) 924-3623

E-Mail: aehdconstserv@cabq.gov

PLANS DISAPPROVED _____ DATE 5/23/11

PLANS APPROVED _____ DATE 6/24/11

CONDITIONAL APPROVAL _____ DATE _____

● **PLEASE NOTE:** Environmental Health administers programs which **are not** in the general construction permit review process. If the Construction Services Section has determined that your project is regulated by such a program, you will be granted **CONDITIONAL APPROVAL**. The specifics of the approval condition(s) will be provided below, along with appropriate contact information. While the **CONDITIONAL APPROVAL** will not impede the issuance of your general construction permit, **failure to observe the approval conditions will prevent Construction Services personnel from conducting a final inspection of your project.**

PLANS CORRECTIONS REQUIRED:

Specify height of new timber fencing & gates
Specify height & description of existing fence intended to function as post barrier
Provide information on gate hardware & installation height

CONDITIONAL APPROVAL REQUIREMENTS:

APPROVED
JUN 20 2011
DESIGN
REVIEW COMMITTEE

CITY ENGINEER

- Any additional documentation which may be required for the granting of a conditional approval is in addition to, and separate from, the general construction permitting process. The required documentation must be submitted independently, by the applicant, to the cited Environmental Health program administration personnel. Verification that the approval condition(s) have been met will be required by Construction Services personnel at the time of final inspection.

(505) 924-3630

PLANS DISAPPROVED _____ DATE 24 May 2011

PLANS APPROVED Permit to Alter _____ DATE 6-24-11

PLANS DISAPPROVED FOR THE FOLLOWING REASONS:

- ☐ An approved Traffic Circulation Layout (TCL) needs to be included in each plan set.
- ☐ A site plan, signed off by DRB, is required in each plan set.
- City Architect Signature Required & DRB Approve

(505) 761-8100

- A final inspection by the plan checker of the Solid Waste Management Department (SWMD) is required. Required refuse container(s) shall be in place before a Certificate of Occupancy will be issued.
- An inspection by the SWMD plan checker is required before the concrete slab or apron is poured.
- Each customer shall provide their own refuse container(s).
- Contact the SWMD at least thirty (30) days prior to occupancy to start service.
- Proposed construction complies with the Albuquerque Municipal Refuse Collection Service Ordinance (Ordinance 42-1980, as amended).

PLANS DISAPPROVED _____ DATE _____
 PLANS APPROVED See with 6817766 DATE 8-28-11

PLANS CORRECTIONS REQUIRED:
 (INDICATE ORDINANCE SECTION REFERENCE)

(505) 924-3982

PLANS DISAPPROVED K. S. S. DATE 24 May 2011
PLANS APPROVED State of Idaho DATE 6-24-11

PLANS DISAPPROVED FOR THE FOLLOWING REASONS:

- ☐ Drainage report/plan required for new construction and for additions of 500 square feet or more to existing structures. See Section 14-5-2.12 of the City's Drainage Ordinance. **A pre-design conference with this office is recommended.**
- ☐ Follow procedures for drainage submittals as outlined on page 1, Section 17, Volume 1 of the City's Development Process Manual.
- ☐ Attach a copy of the approved drainage report/plan to each set of building plans.
- ☐ Pending approval of drainage report/plan submitted.

(505) 924-3611

- All items listed below shall be installed in accordance with applicable fire codes prior to a building (or portion of building) being occupied.
- All required fire hydrants shall be installed and operable before any building (or portion of the building) is occupied.
- An approved and adequate water supply shall be provided before any combustible materials are delivered to the building site.

NAME OF BUSINESS 591 MONTANA RD NW STORE OR SPACE NO. 162
OCCUPANCY GROUP U CONSTRUCTION TYPE _____
FIRE FLOW REQ'D. _____ FIRE HYDRANTS REQ'D. _____

PLANS CORRECTIONS REQUIRED:
(INDICATE ORDINANCE SECTION REFERENCE)

(505) 924-39 ____

• Premises shall not be occupied until a Certificate of Occupancy has been issued in accordance with Section 115 of the Uniform Administrative Code.

DESCRIPTION OF WORK WELLS PARIS WATER SPRAY PLAY AREA
SIZE OF BLDG. (SQ.FT.) 162 OCCUPANCY GROUP U
CONSTRUCTION TYPE _____ BUILDING CODE EDITION (YR.) 2006

PLANS DISAPPROVED Lg Mds DATE 6.13.11
 PLANS APPROVED Lg Mds DATE 5.27.11
Lg Mds 6.24.11
 PLANS CORRECTIONS REQUIRED:
 (INDICATE ORDINANCE SECTION/REFERENCE)

PLANS CORRECTIONS REQUIRED:
(INDICATE ORDINANCE SECTION REFERENCE)

FENCE SHALL BE SUBMITTED UNDER SEPARATE PERMIT
CLARIFY HARDWARE AT EXIT GATE DOORS
DOOR/GATE SHALL SWING IN THE DIRECTION OF EXIT
TRAVEL

(505) 924-3957

CODE EDITIONS (YR.):

UPC 06 UMC 06 NEC 09

PLANS DISAPPROVED _____ DATE 6-13-11

PLANS APPROVED Randy Rudy DATE 6-24-11

PLANS CORRECTIONS REQUIRED:
(INDICATE ORDINANCE SECTION REFERENCE)

(Wells Park Water Play T.I.)
06/13/2011-201191148
Randy Rudy M.C.P.
Plans Examiner
(505) 924-3961
rrudy@cabq.gov
www.cabq.gov
PLAN EXAMINERS AVAILABLE MONDAY THRU FRIDAY 08:30 TO 11:30

- UMC
1. Sheet 12 of 18. Please detail D1 and C3; ventilation for chlorine/acid room storage shall be in accordance with 2003 IFC Section 2704.3 as per 06 UPC Section 101.3.
 2. Sheet 13 of 18. Please provide minimum performance of water heater as per 06 IECC Table 504.2.
- UPC
1. Sheet 12 of 18. Detail C3; please specify storage amounts of chlorine & acid as per 03 IFC Table 2703.1.1 (2) and Chapter 31.
 2. Sheet 12 of 18. Chlorine/acid storage shall require secondary containment when the capacity of an individual vessel exceeds 55 gallons or the aggregate capacity of multiple vessels exceeds 1,000 gallons as per 03 IFC Section 2704.2.2 & Table 2704.2.2 and contained in accordance with 2704.2.2.1.
 3. Sheet 6 of 18. Please submit chemical compatibility chart for drain pipe and chemicals used as per 06 UPC Section 101.3.
 4. Sheet 6 of 18. Please submit water features water/drain pipe specifications as per 06 UPC Section 101.3.

5. Clarify ~~K~~^Hower VENTURES



City of Albuquerque

P.O. Box 1293 Albuquerque, New Mexico 87103

Parks and Recreation Department

Richard J. Berry, Mayor

Barbara Baca, Director

Interoffice Memorandum

June 21, 2011

To: Randy Rudy, Planning Department, City Of Albuquerque

From: Brandon Gibson, Aquatic Division Manager, Parks & Recreation Department, City of Albuquerque

Subject: Chemical Storage at Wells Park Spray Pad

The mechanical / chemical storage room at the Wells Park Spray Pad will need to hold at least two 50lb containers of chlorine tablets. The chlorine tablets will serve as the spray pad's water sanitizer. We will also store a 55gal drum of muriatic acid to control the pH of the water. Depending on the usage, a small acid container (15gal) may be used. No other chemicals will need to be stored in the mechanical room.

Albuquerque
Building & Safety

JUN 24 2011

I.B.C
Plan Check Section

#111008

"WH" WELLS PARK 6/20/2011

Eemax[®]

ELECTRIC TANKLESS WATER HEATERS

Instant Comfort...Endless Savings**Featured on
Bob Vilas
Energy Wise House**

SHOWER UNITS Residential and Commercial Use

Made In USA 

1/07

"SERIES TWO" Two Heating Modules

APPLICATIONS:

For use with several outlets

Staged turn on .7GPM. Max Flow 3GPM

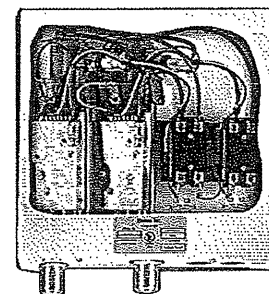
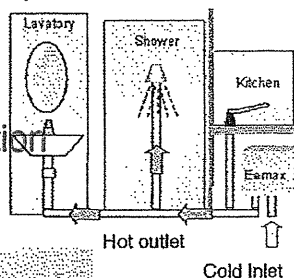
Thermostatic control. Precise outlet temp (+/-1°)

Thermostatic

Model	Options	Volts	kW	Amps
EX95T	DR	240V	9.5kW	95A
EX120	T2,TC,DR	240V	11.5kW	48A
EX144	T2,TC,DR	240V	15kW	64(2x32)A
EX190	T2,TC,DR	240V	19kW	80(2x40)A
EX1608	T2,TC,DR	208V	16.6kW	80(2x40)A

OPTIONS

- ☐ TC - twin thermostats cold or hot water feed, staged, .7 GPM turn on 3, GPM max
- ☐ T2 - twin thermostats cold or hot water feed, parallel, 1.5 GPM turn on, 4 GPM max
- ☐ DR - external temperature control, LED temperature display, see "DR" spec sheet



EX (TC,DR)

*can be used at 208 volts 25% reduced output
Also available in 277 volts single phase (16,20kW)

"SERIES THREE" Three Heating Modules

APPLICATIONS:

Whole house unit has capacity to handle up to two showers at a time.

Staged turn on .7GPM. Max flow 4GPM

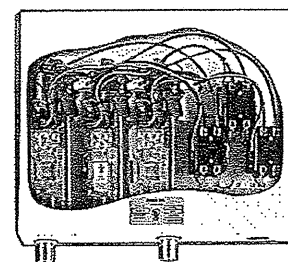
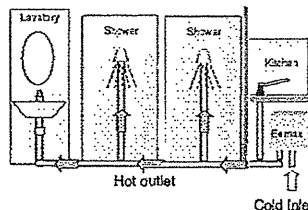
Thermostatic control. Precise outlet temp (+/-1°)

Model	Options	Volts	kW	Amps
EX280	T2T,T3,DR	240V*	28kW	120(3x40)A

- Engineered to turn on in stages. Uses only needed energy for amount of flow required.
- Sophisticated thermostat delivers precise outlet temperature.

OPTIONS

- ☐ T2T - hot or cold water feed, staged turn on, .7 GPM turn on, max 4 GPM
- ☐ T3 - Parallel activation, 1.8 GPM turn on, 5 GPM max, hot or cold feed
- ☐ DR - External Temperature Control, LED temperature display, see "DR" spec sheet



EX (T2T,DR)

*can be used at 208 volts 25% reduced output
Three Phase also available in 480/277 volts star (18,24,32kW) or 120/208 volts delta (18,24kW)

"SERIES FOUR" Four Heating Modules

APPLICATIONS:

Whole house unit has capacity to handle up to three showers at a time.

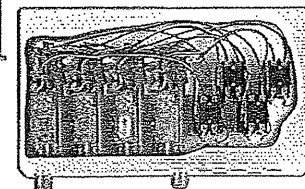
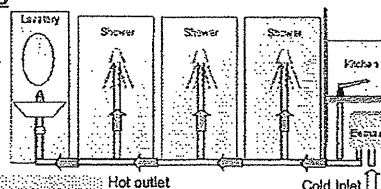
Staged turn on 1GPM to max flow 6GPM

Thermostatic control. Precise outlet temp (+/-1°)

Model	Options	Volts	kW	Amps
EX380	T2T2,T3,DR	240V	38kW	160(4x40)A

OPTIONS

- ☐ T2T2 - hot or cold water feed, staged turn on, .7 GPM turn on, 6 GPM max
- ☐ T3 - Parallel activation, 1.8 GPM turn on



* Whole house, multi fixture, 6 GPM max

• 99% efficiency rating

• Cuts energy waste: No stand-by heat loss. Heats only when needed.

• Low Installation cost: Requires only one cold water input line. no solder connections. Mounts on wall.

• Designed for durability: Reduces calcification and sedimentation.

• Thermostatic control: microprocessor provides precise outlet temperatures

• Regulates power to required flow.

QUALITY FEATURES

- No T&P, drain pans, thermal expansion valves (check local codes)
- Endless Hot Water
- Five year warranty on heater body. One year on parts.
- Replaceable cartridge element. (one year unconditional warranty)
- High Temperature Limit Switch - protects against element burn out, with reset button
- LEED Certified

Katie Paquette

From: Genny Donart [gennyd@iacivil.com]
Sent: Monday, June 20, 2011 4:38 PM
To: Katie Paquette
Cc: rrudy@cabq.gov
Subject: RE: Wells Park sewer materials

Hi Katie,

I just spoke with Randy, and he was fine with the solution of specifying PVC sewer service lines.

Genny Donart, P.E.



Design Engineer

Isaacson & Arfman, P.A.
Consulting Engineering Associates
128 Monroe St. N.E.
Albuquerque, NM 87108
Phone: (505)268-8828
Fax: (505)268-2632
Email: gennyd@iacivil.com

Albuquerque
Building & Safety
JUN 24 2011
I.B.C
Plan Check Section

From: Katie Paquette [mailto:katiep@dpsdesign.org]
Sent: Monday, June 20, 2011 4:32 PM
To: Genny Donart
Subject: RE: Wells chart

Randy Rudy, rrudy@cabq.gov or 924-3961.

Katie Paquette, ASLA - Landscape Architect
Dekker/Perich/Sabatini

From: Genny Donart [mailto:gennyd@iacivil.com]
Sent: Monday, June 20, 2011 4:25 PM
To: Katie Paquette
Subject: RE: Wells chart

Hi Katie,

I looked up the City's Specs for sewer service lines. There are 3 different kinds of pipe the City standardly allows. I think PVC is the only one I'm really comfortable with.

I'm thinking that if I specify PVC for the sewer services on the plans, that may cover the reviewer's concerns. Do you have his contact info so I can call or email him to see if he's OK with that?

Genny Donart, P.E.

Design Engineer

Isaacson & Arfman, P.A.
Consulting Engineering Associates
128 Monroe St. N.E.
Albuquerque, NM 87108
Phone: (505)268-8828
Fax: (505)268-2632
Email: gennyd@iacivil.com

Albuquerque
Building & Safety

JUN 24 2011

I.B.C
Plan Check Section

NOT FOR CONSTRUCTION
PURPOSES

POTENTIAL SPRAY ZONE
OF COMPONENT

2 X DRAIN
DRA-00006

2 X GROUND SPRAY
(MOP TOP)
C02-255

3 X DAISY-MAE
(WAVY)
C/W DEX
C02-023-W-DEX

POWER POST 2.0
ACTIVATOR
C/W DEX
C02-164-DEX

SPIN SOAKER
(W/ WHEEL HANDLE)
C/W DEX
C02-282-DEX

2 X SPLASH BLASTER
(STRAIGHT LOOP)
C/W DEX
C02-262-DEX

SPRAY LOOP TUNNEL
C/W DEX
C02-059-DEX

Albuquerque
Building & Safety

JUN 24 2011

I.B.C
Plan Check Section

11 x 17 plot

2	CHANGED MANIFOLD LOCATION	SN	JUN 24/11
1	CHANGED PAD SHAPE	SN	APR 01/11
REV	DESCRIPTION	REV'D BY	REV DATE

Waterplay Solutions Corp.

Design Services Conditional Release
The design services provided herein, including but not limited to: water structure layout guide, water supply routing, suggested footing details, construction guidelines, are provided at no charge. Waterplay Solutions Corp. reserves the right to invoice the recipient for these design services in the event genuine Waterplay products are not purchased, and are substituted by products other than those manufactured by Waterplay. The design services provided have an estimated value of \$2000 usd. The recipient of these designs has been made aware of aforementioned conditions.

1451B ELLIS STREET, KELOWNA BC, CANADA V1Y 2A3
TEL. (250) 712-3393 FAX (250) 861-4814
EMAIL info@waterplay.com

SCALE: 3/16"=1'
DRAWN BY: SN
DATE: APR 01/11
REV #: 2
FILE: \PROJECTS\2011\WELLS
DWG BY: WATERPLAY SOLUTIONS CORP

DWG NAME: WATERPLAY CONCEPT LAYOUT
PROJECT: WELLS PARK, NM

SHEET
1/4

Copyright Material

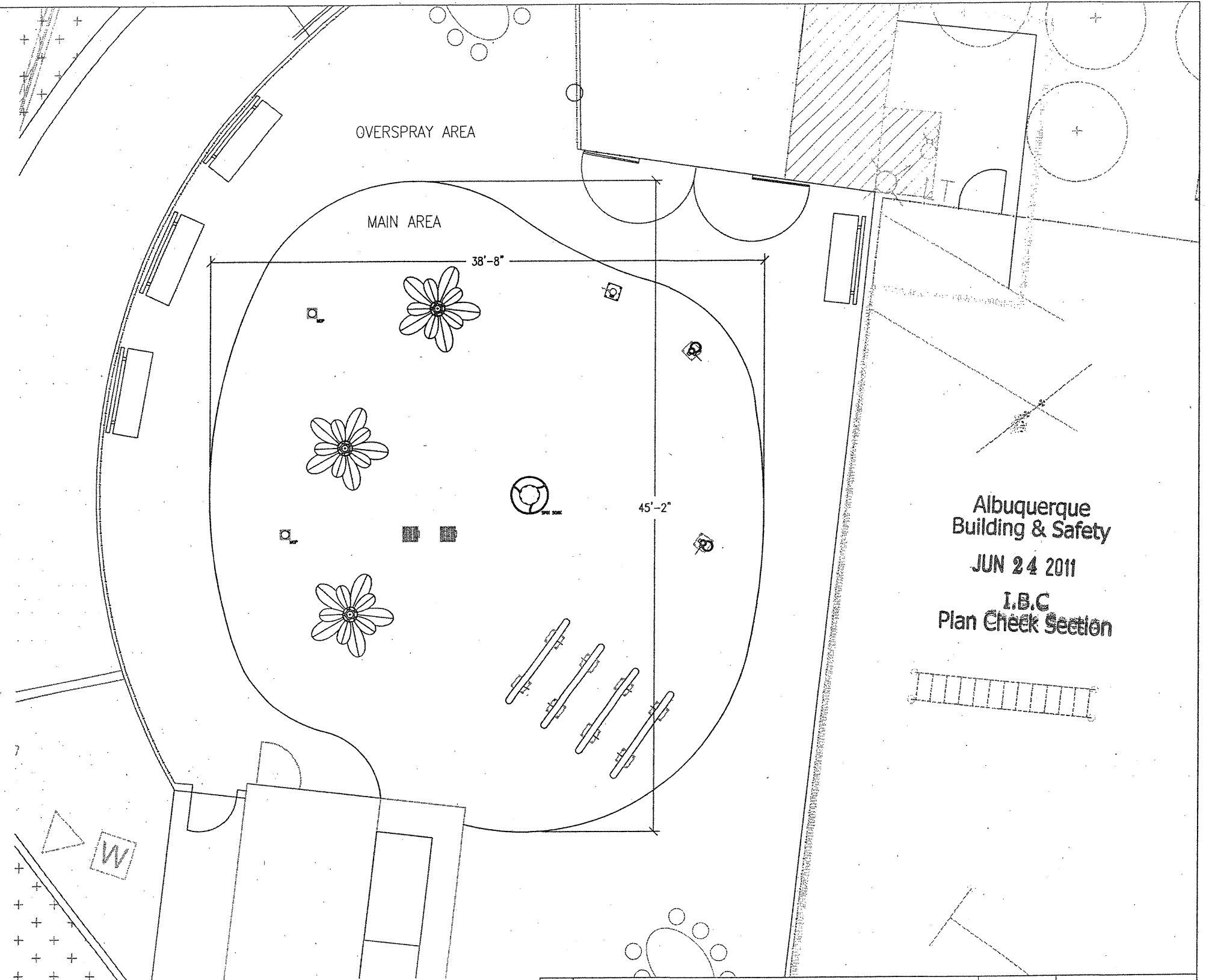
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waterplay
Solution Corp.

FOR INFORMATIONAL PURPOSES ONLY. LOCAL LANDSCAPE ARCHITECT, ENGINEER AND/OR APPROPRIATE AUTHORITIES HAVING JURISDICTION MUST COMPLETE ALL PARK LAYOUT, MECHANICAL & ELECTRICAL DESIGN PRIOR TO CONSTRUCTION.

☒ COPYRIGHTED MATERIAL REPRESENTED IN THIS DOCUMENT IS NOT THE SOLE PROPERTY OF WATERPLAY SOLUTIONS CORPORATIONS AND DISTRIBUTION SHALL BE CONTROLLED.

NOT FOR CONSTRUCTION
PURPOSES



NOTES:

1. MAIN AQUATIC PLAY PAD AREA: BY OTHER
2. RECOMMEND 8' TO 10' OVERSPRAY (PENDING WIND CONDITIONS)
3. GRADE SURROUNDING OUTSIDE PERIMETER LANDSCAPE TO PROVIDE PROPER DRAINAGE AWAY FROM OVERSPRAY PAD
4. RECOMMEND 2% TO 5% FOR SLAB GRADES
5. SLOPES TO PROVIDE POSITIVE DRAINAGE TO DRAINS
6. LIGHT BROOM FINISH CONCRETE TO PREVENT SLIPPING

11 x 17 plot

2	CHANGED MANIFOLD LOCATION	SN	JUN 24/11
1	CHANGED PAD SHAPE	SN	APR 01/11
REV	DESCRIPTION	REV'D BY	REV DATE

Design Services Conditional Release

The design services provided herein, including but not limited to: water structure layout guide, water supply routing, suggested footing details, construction guidelines, are provided at no charge. Waterplay Solutions Corp. reserves the right to invoice the recipient for these design services in the event genuine Waterplay products are not purchased, and are substituted by products other than those manufactured by Waterplay. The design services provided have an estimated value of \$2000 USD. The recipient of these designs has been made aware of aforementioned conditions.

1451B ELLIS STREET, KELOWNA BC, CANADA V1Y 2A3
TEL. (250) 712-3393 FAX (250) 861-4814
EMAIL info@waterplay.com

SCALE:
1/8"=1'

DRAWN BY:
SN

DATE:
APR 01/11

REV #:
2

DWG NAME:
WATERPLAY CONCEPTUAL PAD LAYOUT

SHEET
2/4

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 **waterplay**
Solution Corp.

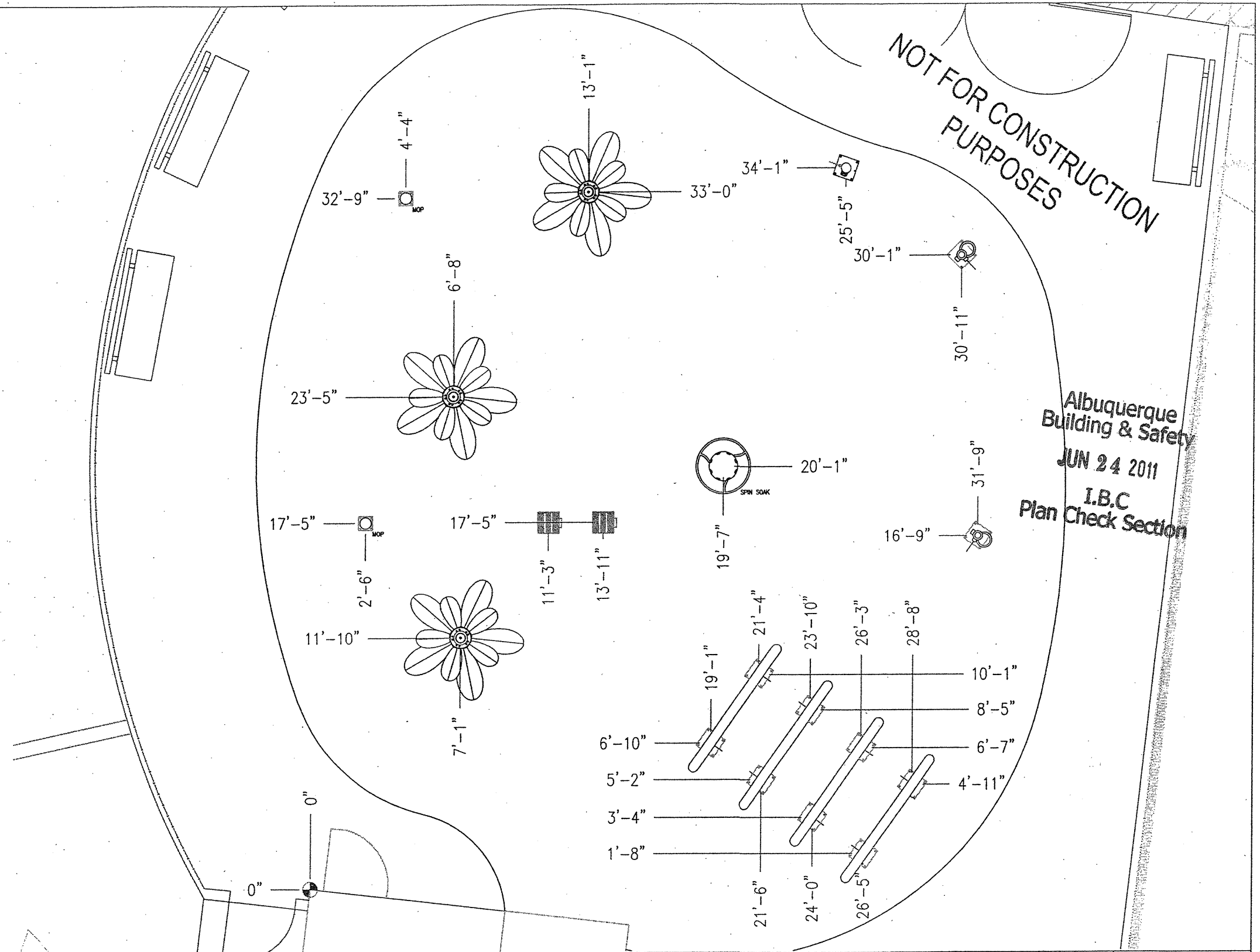
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NOTES:

1. ALL DIMENSIONS MEASURED FROM DIMENSION ORIGIN (0,0) TO CENTRE OF FOOTING
2. REFER TO FOOTING DETAILS FOR EACH WATER STRUCTURE
3. LOCATE DRAINS TO PREVENT STANDING WATER
4. GROUND ALL COMPONENTS TOGETHER WITH GROUNDING WIRE AND BASE PLATE GROUNDING LUG

11 x 17 plot



2	CHANGED MANIFOLD LOCATION	SN	JUN 24/11
1	CHANGED PAD SHAPE	SN	APR 01/11
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TEL. (250) 712-3393 FAX (250) 861-4814

EMAIL info@waterplay.com

SCALE:
3/16"=1'DRAWN BY:
SNDATE:
APR 01/11REV #:
2FILE:
\\PROJECTS\\2011\\WELLSDWG BY:
WATERPLAY SOLUTIONS CORPDWG NAME:
WATERPLAY COMPONENT PLACEMENTSHEET
3/4PROJECT:
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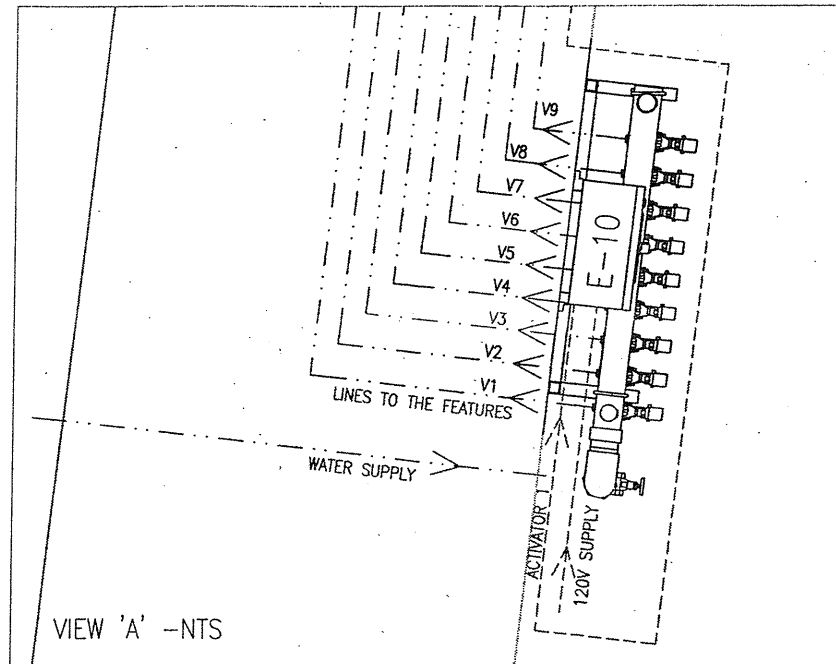
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VALVE TABLE

VALVE #	COMPONENT NAME	QTY/VALVE	GPM	LINE SIZE FROM MANIFOLD	COUPLER TYPE
1	GROUND SPRAY (MOP TOP)	1	12	1.5 in	NPT
2	GROUND SPRAY (MOP TOP)	1	12	1.5 in	NPT
3	DAISY MAE, WAVY	1	10	1.5 in	NPT
4	DAISY MAE, WAVY	1	10	1.5 in	NPT
5	DAISY MAE, WAVY	1	10	1.5 in	NPT
6	SPIN SOAKER (WH)	1	17	1.5 in	NPT
7	SPLASH BLASTER (STRAIGHT LOOP)	2	12	1.5 in	NPT
8	SPRAY LOOP	0.5	11	1.5 in	NPT
9	SPRAY LOOP	0.5	11	1.5 in	NPT



SIZE OF SUPPLY LINE
MAY REQUIRE
REVIEW BY LOCAL ENGINEER

1.0" BRANCH TO 2.5"
GROUND SPRAYS FROM
1.5" SUPPLY

0.5" DRAIN COUPLER
FROM ACTIVATOR TO
DRAIN PIT OR SEWER

AQUATIC PLAY PAD DRAINS
TO TREATMENT SYSTEM

1.0" ELEC CONDUIT FROM
ACTIVATOR TO E-10
CONTROLLER

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JUN 24 2011

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Plan Check Section

NOT FOR CONSTRUCTION
PURPOSES

NOTES:

- THIS IS A PRELIMINARY SCHEMATIC, SITE PIPING MUST BE DETERMINED AND MEASURED ON-SITE
- DESIGN IS BASED ON SCHEDULE 40 OR 80 PVC. APPROVED PIPING TYPE TO BE DETERMINED BY LOCAL AUTHORITIES
- WATER LINES MUST HAVE POSITIVE DRAINAGE FROM WATER TOYS TO VAULT OR LOW POINT FOR WINTERIZING AND MAINTENANCE.
- PROVIDE PRESSURE CONTROL AT MAIN WATER SOURCE UPSTREAM FROM MANIFOLD VALVES
- WATER SUPPLY PRESSURE REQUIRED TO THE MANIFOLD IS 40-50 PSI FOR PROPER DISPLAY
- VAULT SHALL BE EASILY ACCESSIBLE BY STAFF AND SECURED FROM PUBLIC
- WATER AT NOZZLES SHOULD BE AT LOW PRESSURE (2-30 PSI TYPICAL)
- GPM IN ABOVE TABLE IS FOR LOW FLOW NOZZLES @ 15 PSI NOZZLE PRESSURE
- E-10 CONTROLLER CONFIGURED FOR TREATED WATER SUPPLY

11 x 17 plot

2	CHANGED MANIFOLD LOCATION	SN	JUN 24/11
1	CHANGED PAD SHAPE	SN	APR 01/11
REV	DESCRIPTION	REV'D BY	REV DATE

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SCALE:
3/16"=1'

DRAWN BY:
SN

DATE:
APR 01/11

REV #:
2

DWG NAME:
WATERPLAY PIPING LAYOUT

SHEET
4/4

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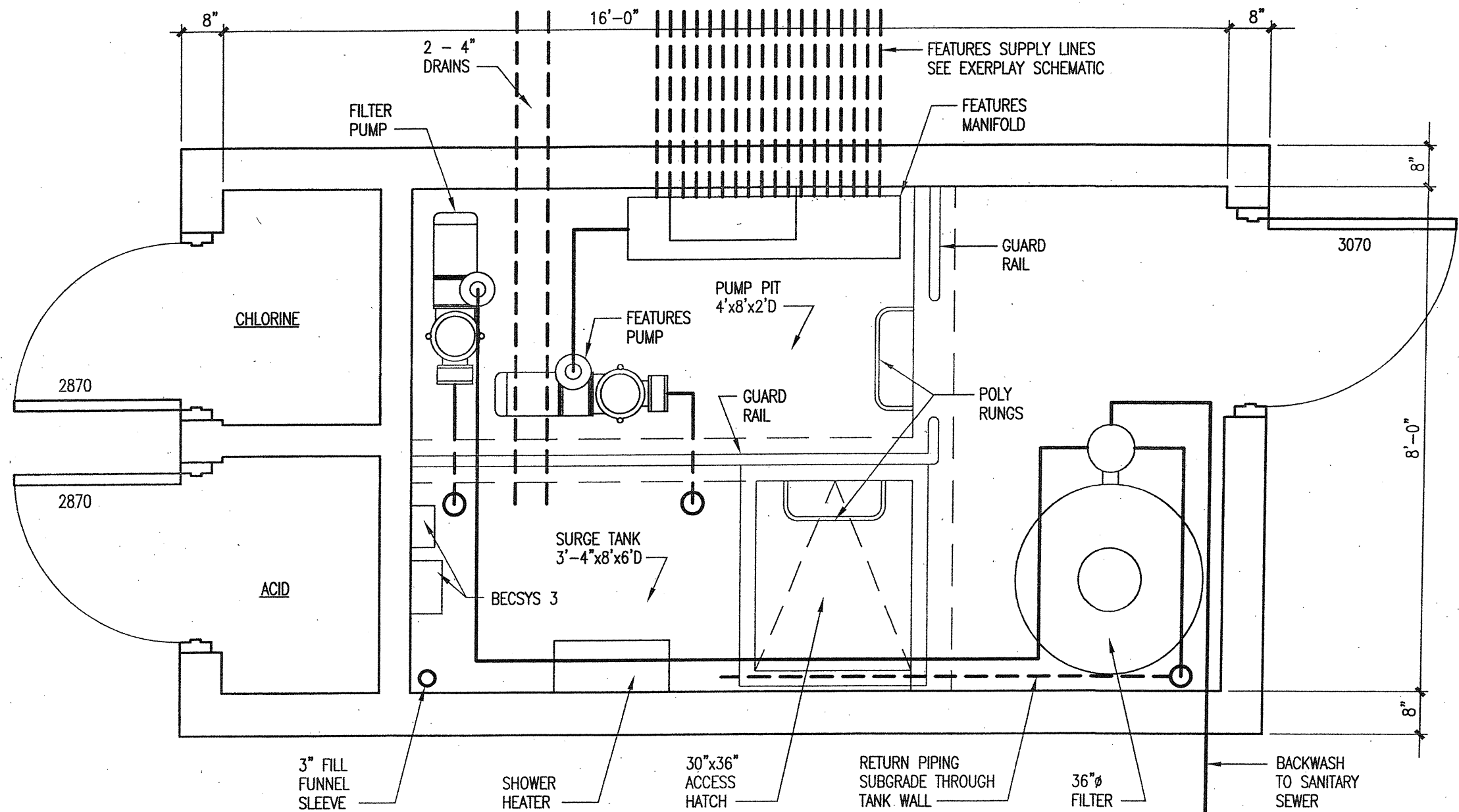
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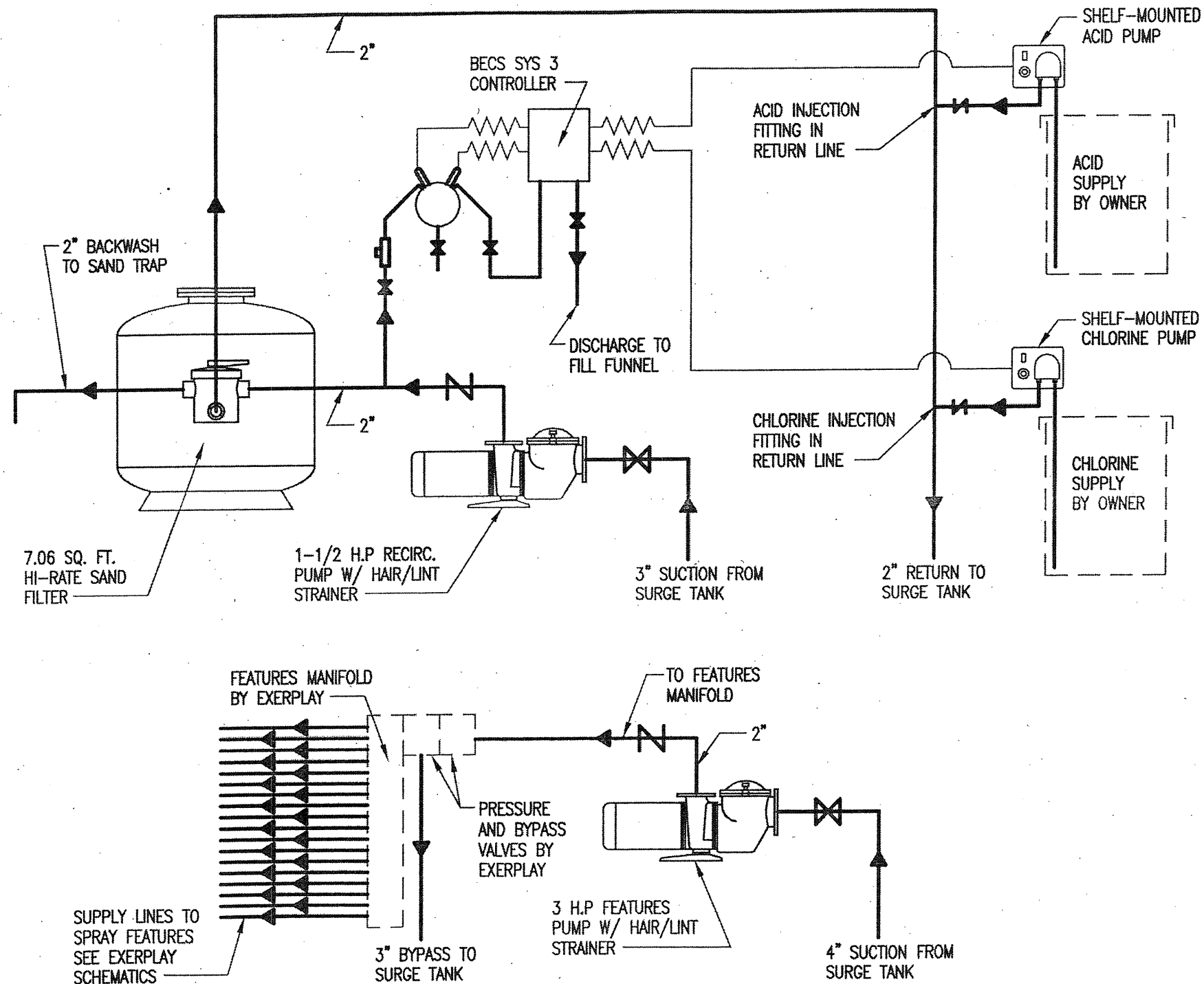
4
 SP1

SPRAY PARK EQUIPMENT ROOM PLAN
 SCALE: 1/4" = 1'-0"

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JUN 24 2011

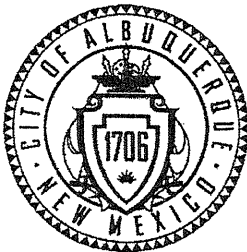
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FILTRATION & OPERATIONAL DATA	
TANK CAPACITY - GALLONS	1195
DESIGN FLOW RATE (GPM)	106
PUMP PERFORMANCE (HP - GPM @ TDH)	1-1/2 HP - 106 GPM @ 35' TDH
TURNOVER (HOURS:MINUTES)	0:12
FILTER AREA (SQ FT)	7.06
FILTRATION RATE (GPM/SF)	15
BACKWASH RATE (GPM)	106
HYDRAULIC RATE (FT/SEC)	Suction - <6 Discharge - <10
DISINFECTANT	LIQUID CHLORINE
pH CONTROL	MURIATIC ACID
WATER SUPPLY (SIZE, QUALITY)	1-1/2" POTABLE
BACKWASH DISPOSAL	TO SANITARY SEWER

2
SPRAY PARK EQUIPMENT SCHEMATIC
 SP1 SCALE: NONE

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 JUN 24 2011
 I.B.C.
 Plan Check Section



City of Albuquerque

P.O. Box 1293 Albuquerque, New Mexico 87103

Parks and Recreation Department

Richard J. Berry, Mayor

Barbara Baca, Director

Interoffice Memorandum

April 14, 2011

To: John Sheets, Planning, City Of Albuquerque

B From: Brandon Gibson, Acting Aquatic Division Manager, Parks & Recreation Dept. City of Albuquerque

Subject: Winterizing of outdoor swimming pools

Outdoor swimming pools are operational from the last weekend of May, through the second weekend of August. All outdoor swimming pools are winterized by the end of August.

Below are the steps we use to winterize the outdoor pools:

- Backwash 5 times or more so that gutters are empty and filters are as clean as possible
- Remove and clean hair strainer basket
- Close hair strainer and motor valves
- Remove plug from hair strainer and motor, drain out system
- Remove all flow gauges
- Cap chemical controller probes and properly store
- Open air bleed on top of filters
- Remove filter plug and drain
- Drain heater
- Clean chlorinator, tray and lines
- Sodium Bicarbonate through Acid Pumps and lines, then drain
- Turn off all electrical equipment except chemical controller
- Call plumber for final water shut-off to building
- Detailed list of problems and work needed

The Wells Park project will be a great site for the Parks & Recreation Department. Thank you for your help with this project.

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MAY 2 11 2011

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Thank you,

Brandon Gibson