



State of Utah

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Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM #1

Date: June 10, 2010  
To: Contractors  
From: Lucas V. Davis, Project Manager, DFCM  
Reference: Tennis Court Resurfacing  
Weber State University, Utah  
DFCM Project No.10009810

Subject: Addendum No. 1

Pages	Addendum	1	page
	Architects Addendum & Drawings	9	pages
	<b>Total</b>	<b>10</b>	<b>pages</b>

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**Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.**

- 1.1 **SCHEDULE CHANGES** – There are no changes to the project schedule.
- 1.2 **GENERAL - CRS** - Please see attached Specifications and Drawings..



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**Weber State University Tennis Courts  
Addendum #1  
06/10/10**

*This addendum shall be considered part of the Contract Documents for the above referenced project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence. Receipt of this addendum shall be acknowledged in the Bid Form.*

**Addendum Items**

- 1. Delete Drawing Sheet C201 in its entirety and replace it with the attached revised Sheet C201. Revisions include:**
  - Removed demolition area for filler strip on north courts
  - Revised location for required sawcut to remove existing net posts
  - Revised Keynote 1, reads as follows:  
***“REMOVE EXISTING NET POST. CUT POST OFF FLUSH WITH EXISTING SURFACE.”***
  - Added Keynote 15, reads as follows:  
***“SAWCUT AND REMOVE 2’ X 2’ AREA FOR NEW NET POST LOCATIONS.”***
  
- 2. Delete Drawing Sheet C301 in its entirety and replace it with the attached revised Sheet C301. Revisions include:**
  - Added 4” perforated ADS drain between spectator area and the existing retaining wall to the west.
  - Revised ADA sidewalk along the west edge of the north tennis courts.
  - Revised Keynote 4, reads as follows:  
***“INSTALL 4” PERFORATED DRAIN PIPE IN STRIP BETWEEN SPECTATOR AREA AND EXISTING WALL. SEE DETAIL 6/C602 .”***

3. **Delete Drawing Sheet C401 in its entirety and replace it with the attached revised Sheet C401.** Revisions include:
  - Revised ADA sidewalk along the west edge of the north tennis courts.
  - Added point coordinates for new tennis post locations and corresponding point table.
  
4. **Delete Drawing Sheet C501 in its entirety and replace it with the attached revised Sheet C501.** Revisions include:
  - Revised ADA sidewalk along the west edge of the north tennis courts.
  - Added gate at terminus of revised ADA sidewalk entrance to tennis courts.
  - Added Profile for ADA sidewalk as per DFCM comments
  - Revised spectator area to not include bleachers and revised corresponding Keynote 12, to read as follows: **“SPECTATOR AREA”**
  - Revised length of 10’ high return fence at the west edge of the south tennis courts from 8’ to 16’.
  - Removed concrete filler strip on the north tennis courts and replaced with metal keyway/construction joint.
  - Revised Keynote 6, reads as follows:  
**“INSTALL 10’ HIGH BY 8’ LONG VINYL COATED INTERIOR FENCE...”**
  - Revised Keynote 8, reads as follows:  
**“CABLE CLEANOUT - 3’ O.C. BOTH WAYS FOR 4 SOUTH COURTS. 2’4” O.C. IN EAST/WEST DIRECTION AND 3’ O.C. IN NORTH/SOUTH DIRECTION FOR 3 NORTH COURTS. TENSIONING IS DOUBLE LIVE BOTH WAYS EXCEPT FOR ALONG EXISTING RETAINING WALLS. SEE DETAIL 3 SHEET C601”**
  - Revised Keynote 13, reads as follows:  
**“INSTALL PREFABRICATED METAL STAIRS WITH 42” LANDING PER...”**
  - Revised Keynote 24, reads as follows:  
**“ADJUST UTILITY VAULT LID TO MATCH FINISH GRADE ELEVATION”**
  
5. **Delete Drawing Sheet C601 in its entirety and replace it with the attached revised Drawing Sheet C601.**
  
6. **Delete Drawing Sheet C602 in its entirety and replace it with the attached revised Drawing Sheet C602.**

### Questions

1. Is Epoxy coated rebar necessary? ***All rebar to be changed to #4 rebar, epoxy coated not necessary. Refer to Addendum #1 Item 7***
  
2. Are we moving the fill strip to the West edge of the North Courts spanning all 3 courts? ***The fill strip is to be removed between the courts and the PT tendons will span all 3 courts. Tendons running east west shall be spaced at 2’4”o.c. Refer to Addendum #1***
  
3. Does there need to be an expansion piece against the faces of the beams? ***An expansion joint will be added between all existing retaining walls and the new court slab. Refer to Addendum #1 Item 7***

4. Are we changing the divider fence between the courts? ***The divider fence has been changed to extend 8' into the court and is 10'high. Refer to Addendum #1***

5. Can existing poles be sleeved for the fence? ***Existing poles can be sleeved for the new fence provided they are securely anchored into the existing surface and the diameter allows for sleeving.***

6. Sheet C201 Note 7 - What type of utility is inside the referenced utility box and what is the proposed new location for the existing box? ***The utility box contains irrigation valves. The ADA access has been removed from the area so the utility box does not require relocation. It may have to be adjusted vertically to match the new grades.***

7. Sheet C301 Note 4 - Note 4 just indicates coordinating with campus planning and construction. What type of landscape materials are to be provided for this work item? ***The strip behind the bleachers has been revised to a perforated drainage pipe with gravel cover. Refer to Addendum #1 and revised plans.***

8. Sheet C501 Note 8 - Note 8 indicates that cable post tensioning is to be double live ends in both directions. Cable ends at the existing retaining wall cannot be live ends if the PT slab is to be placed without a concrete closure strip. Please clarify live end condition where new PT slab meets existing retaining wall. ***See the revised Note 8 on C501. Refer to Addendum #1 Item 4. There is a perimeter beam along the retaining walls for dead end loading. There is no double live tensioning along the retaining wall areas. Additionally an expansion joint has been added where PT slab contacts existing retaining walls.***

9. Sheet C501 Note 9 - Please clarify the purpose of the metal key construction joint at the midline of each axis of each PT slab section. ***This is to provide crack control along lines out of the area of play.***

10. Sheet C501 Note 13 - Are we to cut out a section of the existing retaining wall as it appears on the plans, or are we to butt the prefabricated metal stairs to the inside of the existing retaining wall? Please clarify. ***The prefabricated metal stairs are to butt up against and be anchored to the existing retaining wall.***

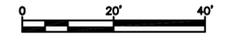
11. Sheet C601 Detail 5 - This detail indicates that the new PT slab will be placed directly on top of the existing asphalt surface. This does not seem to be consistent with the existing and proposed elevations on Sheet C301. What type of fill material will be approved to place on top of the existing asphalt to achieve the new subgrade elevation for the PT slab? The detail indicates a minimum of 2" or untreated base course. ***The proposed surface elevations were generated by taking the existing elevation along the west edge and adding 2" plus the thickness of the new slab and sloping at 1% to the east. The base course fill thickens as you move to the east due to the lack of slope on the existing court.***

GYMNASIUM

PARKING LOT

4100 SOUTH

TAYLOR AVE



KEY NOTES

- 1 REMOVE EXISTING NET POST. CUT POST OFF FLUSH WITH EXISTING SURFACE
- 2 REMOVE EXISTING FENCE
- 3 SAWCUT AND REMOVE 2' OF TENNIS COURT. EXCAVATE TO 12" BELOW FINISH GRADE ELEVATION TO ACCOMMODATE POST TENSION PERIMETER BEAM.
- 4 SAWCUT AND REMOVE 4' OF TENNIS COURT. EXCAVATE TO 12" BELOW FINISH GRADE ELEVATION TO ACCOMMODATE POST TENSION PERIMETER BEAMS AND CONCRETE FILLER STRIP
- 5 PROTECT EXISTING DRINKING FOUNTAIN IN PLACE
- 6 NEW POST-TENSION TENNIS COURT CONSTRUCTION REQUIRES REMOVAL, SALVAGE, AND RE-INSTALLATION OF EXISTING STORAGE SHEDS. REMOVAL BY WSU. COORDINATE WITH WSU CAMPUS PLANNING AND CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT NEW FLOOR OF EXISTING STORAGE SHEDS. CONTRACTOR IS RESPONSIBLE TO RE-INSTALL ON CONCRETE FLOOR/PAD. SEE KEYNOTE 2 SHEET C301
- 7 PROTECT EXISTING UTILITY BOX IN PLACE
- 8 PROTECT EXISTING RETAINING WALL IN PLACE
- 9 REMOVE AND SALVAGE EXISTING BLEACHERS PER SHEET C301. DISASSEMBLE BLEACHERS AND RETAIN FIRST THREE ROWS FOR RELOCATION. DEMOLISH AND REMOVE EXISTING BLEACHER FOUNDATION
- 10 REMOVE EXISTING SIDEWALK
- 11 RELOCATE EXISTING SPRINKLER HEADS. COORDINATE WITH WSU CAMPUS PLANNING AND CONSTRUCTION
- 12 SAWCUT EXISTING SIDEWALK AT TOP OF STAIRS
- 13 SAWCUT AND REMOVE 3.5' OF TENNIS COURT. EXCAVATE 12" BELOW GRADE FOR TRENCH DRAIN INSTALLATION, PERIMETER BEAM, AND CONCRETE FILLER STRIP
- 14 REMOVE LANDSCAPING FOR INSTALLATION OF TEMPORARY CONSTRUCTION ACCESS. SEE SHEET C702
- 15 SAWCUT AND REMOVE 2' x 2' AREA FOR NEW NET POST LOCATIONS

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1	ADDENDUM #1 - JUNE 10, 2010
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DRAWING SCALE:  
ISSUE DATE: MAY 17, 2010

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STATE OF UTAH D.F.C.M.  
**WEBER STATE UNIVERSITY TENNIS COURTS**  
EXISTING SITE & DEMOLITION PLAN

STAMP: PROFESSIONAL ENGINEER, No. 5254604-2202, SETH P. WALLACE, STATE OF UTAH

PROJECT NUMBER: 10030C

SHEET 2 OF 9

SHEET NUMBER: C201

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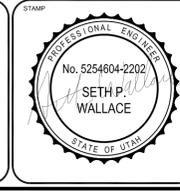
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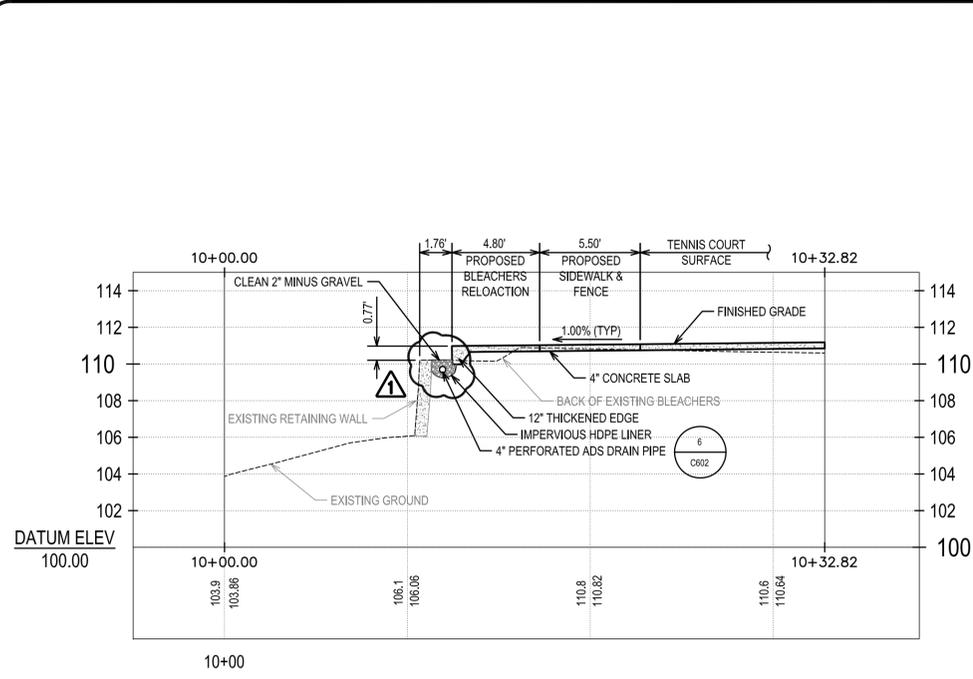
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**WEBER STATE UNIVERSITY TENNIS COURTS**  
 GRADING PLAN



PROJECT NUMBER	10030C	
SHEET	3	OF 9
SHEET NUMBER	<b>C301</b>	



North arrow and scale bar (0, 20, 40 feet).

**KEY NOTES**

- INSTALL ROCK WALL. SEE DETAIL 4 SHEET C602.
- EXISTING STORAGE LOCKERS TO BE RAISED TO MATCH FINISHED ELEVATION OF TENNIS COURT. COORDINATE WITH WSU CAMPUS PLANNING & CONSTRUCTION. SEE KEYNOTE 6 SHEET C201
- RAISE EXISTING DRINKING FOUNTAIN AND CONCRETE PAD TO MEET FINISHED ELVATION. COORDINATE WITH WSU CAMPUS PLANNING & CONSTRUCTION
- INSTALL 4" PERFORATED DRAIN PIPE IN STRIP BETWEEN SPECTATOR AREA AND EXISTING WALL. SEE DETAIL C602
- 5' WIDE ADA ACCESS RAMP. RAMP SHALL BE 40' LONG WITH A MAXIMUM SLOPE OF 1:16.
- GRADE BREAK. SEE SHEET C401 FOR LOCATION

NOTE: ALL ELEVATIONS SHOWN ARE FINISH GROUND.

Point #	Elevation	Northing	Easting	Description
1	112.18	10003.95	10317.96	SWL
2	111.82	10002.22	10282.00	SWL
3	112.30	10082.49	10327.19	SWL
4	112.31	10004.58	10330.95	SWL
5	112.67	10006.31	10366.91	SWL
6	112.66	10084.22	10363.14	SWL
7	112.79	10084.85	10376.13	SWL
8	112.80	10006.94	10379.89	SWL
9	113.16	10008.68	10415.85	SWL
10	113.15	10086.59	10412.09	SWL
11	111.20	9951.78	10222.37	SWL
12	111.56	9953.52	10258.32	SWL
13	111.20	9873.87	10226.13	SWL
14	111.56	9875.61	10262.08	SWL
15	111.73	9876.43	10279.06	SWL
16	112.09	9878.16	10315.02	SWL
17	112.09	9956.07	10311.26	SWL
18	111.73	9954.34	10275.30	SWL
19	112.27	9879.03	10333.00	SWL
20	112.63	9880.77	10368.96	SWL

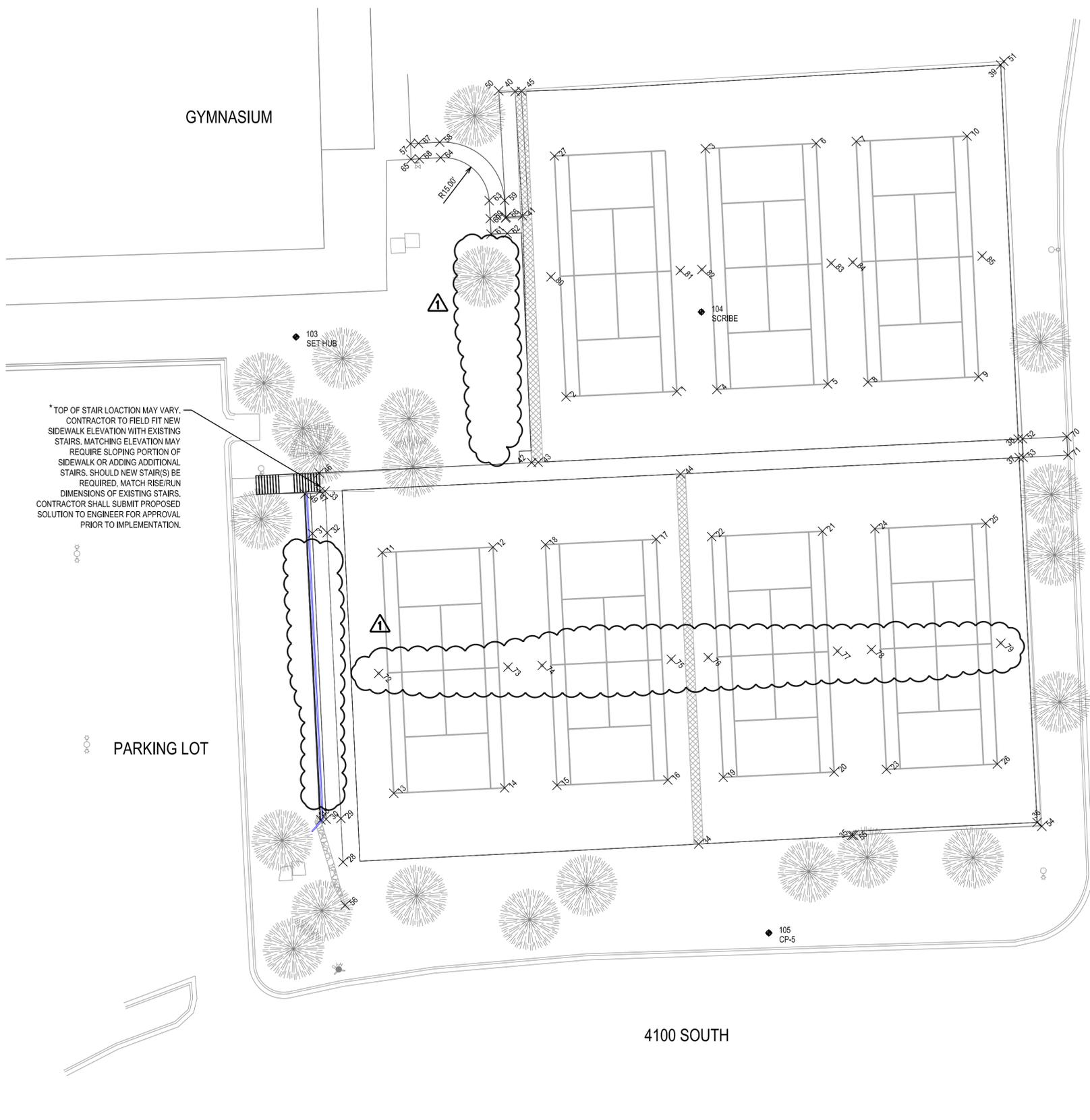
Point #	Elevation	Northing	Easting	Description
21	112.63	9958.68	10365.20	SWL
22	112.27	9956.94	10329.24	SWL
23	112.80	9881.59	10385.94	SWL
24	112.80	9959.50	10382.18	SWL
25	113.16	9961.23	10418.14	SWL
26	113.16	9883.32	10421.90	SWL
27	111.81	10080.13	10278.24	SWL
28	111.03	9851.62	10209.68	TC
29	111.03	9885.71	10209.00	TC
30	110.97	9865.48	10204.21	TC
31	110.98	9957.96	10199.74	TC
32	111.02	9958.19	10204.54	TC
33	111.02	9971.67	10203.89	TC
34	112.18	9857.44	10325.03	TC
35	112.68	9860.24	10374.65	TC
36	113.28	9864.44	10434.82	TC
37	113.28	9882.53	10428.98	TC
38	113.28	9888.52	10428.68	TC
39	113.27	10109.61	10422.99	TC
40	111.69	10101.01	10265.49	TC

Point #	Elevation	Northing	Easting	Description
41	111.70	10060.80	10267.91	TC
42	111.70	9980.90	10270.86	TC
43	111.72	9981.01	10272.98	TC
44	112.18	9977.23	10319.18	TC
45	111.72	10101.08	10267.61	TC
46	109.52	9977.58	10201.95	TOP STAIRS
47	111.00	9971.61	10202.24	TOP STAIRS
48	109.87	9865.28	10202.48	TOW
49	110.00	9970.78	10197.33	TOW
50	117.44	10101.26	10260.16	TOW
51	117.49	10110.78	10424.02	TOW
52	116.94	9988.59	10430.06	TOW
53	117.05	9982.59	10430.29	TOW
54	116.88	9863.20	10436.33	TOW
55	112.00	9860.26	10375.26	TOW
56	107.00	9837.64	10210.35	TOW
57	114.27	10084.09	10231.57	SW
58	113.72	10084.59	10241.06	SW PC
59	112.00	10065.77	10262.08	SW PT
60	111.65	10060.04	10262.41	SW GB

Point #	Elevation	Northing	Easting	Description
61	111.60	10054.87	10257.70	SW
62	111.65	10055.06	10262.95	SW
63	111.97	10065.68	10257.08	SW PT
64	113.66	10079.60	10241.32	SW PC
65	114.12	10079.09	10231.73	SW
66	111.65	10060.35	10262.57	TC
67	114.14	10084.23	10234.16	SW GB
68	114.10	10079.23	10234.43	SW GB
69	111.60	10059.86	10257.42	SW GB
70	117.50	9989.28	10444.48	SW
71	117.50	9983.29	10444.82	SW
103	102.39	10021.56	10194.45	SET HUB
104	111.21	10029.66	10325.92	SCRIBE
105	113.28	9828.67	10347.79	CP-5
106	117.89	9989.08	10484.56	CP-6

Point #	Elevation	Northing	Easting	Description
72	111.17	9912.68	10221.25	NET POST
73	111.59	9914.71	10263.20	NET POST
74	111.70	9915.24	10274.26	NET POST
75	112.12	9917.26	10316.14	NET POST
76	112.24	9917.84	10328.13	NET POST
77	112.66	9919.87	10370.08	NET POST
78	112.77	9920.40	10381.06	NET POST
79	113.19	9922.42	10423.01	NET POST
80	111.73	10041.03	10277.13	NET POST
81	112.20	10043.05	10319.08	NET POST
82	112.27	10043.39	10326.07	NET POST
83	112.69	10045.41	10368.02	NET POST
84	112.76	10045.75	10375.01	NET POST
85	113.18	10047.78	10416.96	NET POST

NOTE: ELEVATIONS SHOWN ARE FINISH GROUND



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ADDENDUM #1 - JUNE 10, 2010

0 1

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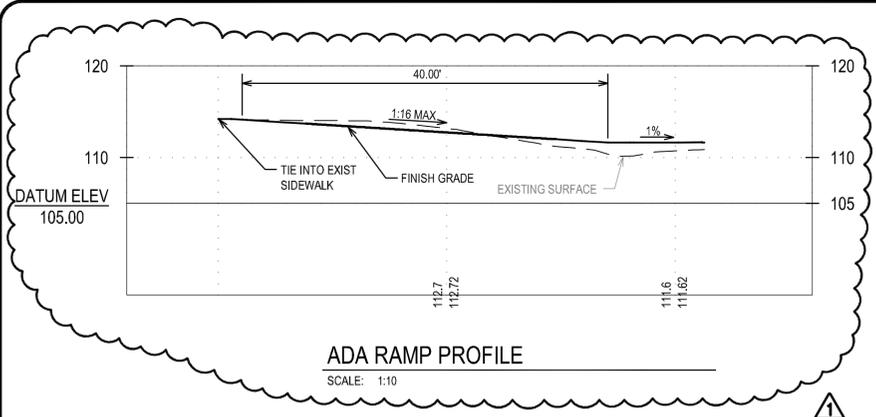
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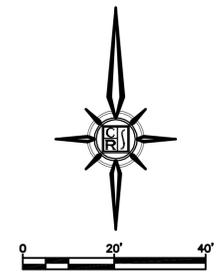
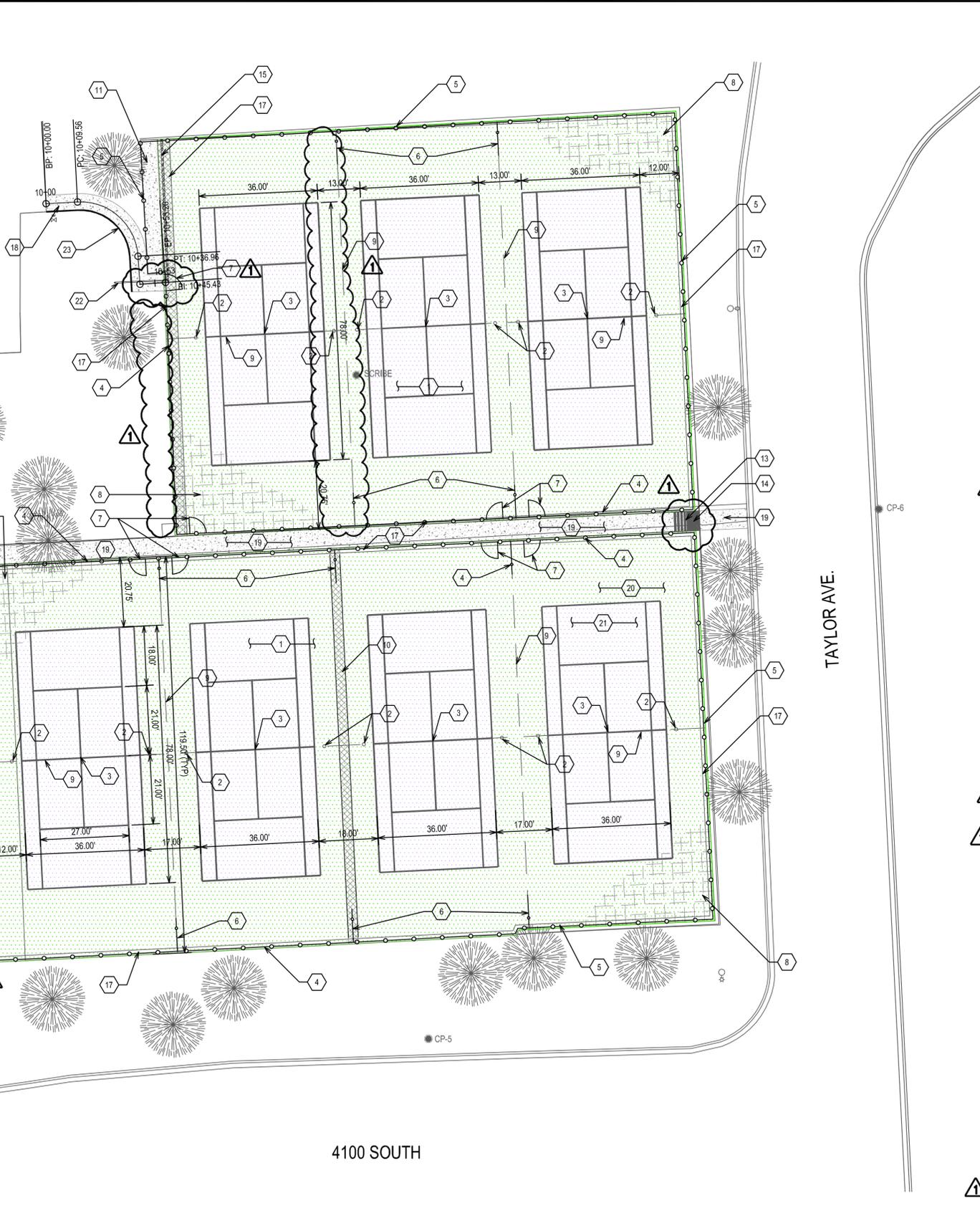
STATE OF UTAH D.F.C.M.  
 WEBER STATE UNIVERSITY TENNIS COURTS  
 SITE LAYOUT & COORDINATE PLAN

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 No. 5254604-2202  
 SETH P. WALLACE  
 STATE OF UTAH

PROJECT NUMBER: 10030C  
 SHEET 4 OF 9  
 SHEET NUMBER: C401



**ADA RAMP PROFILE**  
SCALE: 1:10



**KEY NOTES**

- 1 CONSTRUCT NEW POST TENSION CONCRETE TENNIS COURT PER SPECIFICATION 03700.
- 2 INSTALL NET POST PER SPECIFICATION 03700SEE DETAIL 1 ON C601.
- 3 INSTALL NET CENTER STRAP ANCHOR PER SPECIFICATION 03700. SEE DETAIL 2 ON C601.
- 4 INSTALL 10' HIGH VINYL COATED (BLACK) CHAIN LINK FENCE, 2 3/8" DIA LINE AND CORNER POSTS @ 8' O.C. WITH 1 3/8" DIA TOP, MIDDLE, AND BOTTOM RAILS. ALL FENCE, PIPE AND FRAME MATERIALS TO BE "SS-40" VINYL COATED (BLACK) OR EQUAL. SEE SPECIFICATION 03700
- 5 INSTALL 4' HIGH VINYL COATED (BLACK) CHAIN LINK FENCE, 2 3/8" DIA LINE AND CORNER POSTS @ 10' O.C. (MATCH EXISTING POST LOCATIONS ON TOP OF EXISTING RETAINING WALL) WITH 1 3/8" DIA TOP, MIDDLE, AND BOTTOM RAILS. ALL FENCE, PIPE AND FRAME MATERIALS TO BE "SS-40" VINYL COATED (BLACK) OR EQUAL. SEE SPECIFICATION 03700
- 6 INSTALL 10' HIGH x 8' LONG VINYL COATED INTERIOR FENCE, 2 3/8" DIA LINE AND CORNER POSTS @ 10' O.C. WITH 1 3/8" DIA TOP, MIDDLE, AND BOTTOM RAILS. ALL FENCE, PIPE AND FRAME MATERIALS TO BE "SS-40" VINYL COATED (BLACK) OR EQUAL. FENCE SHALL EXTEND 6 LF INTO COURT FROM EXTERIOR FENCE. SEE SPECIFICATION 03700. SEE DETAIL 6 ON C601
- 7 INSTALL 42" VINYL COATED (BLACK) CHAINLINK GATE, SEE DETAIL 5 SHEET C602
- 8 CABLE CLEANOUT - 3' O.C. BOTH WAYS FOR 4 SOUTH COURTS, 24" O.C. IN EAST/WEST DIRECTION AND 3' O.C. IN NORTH/SOUTH DIRECTION FOR 3 NORTH COURTS. TENSIONING IS DOUBLE LIVE BOTH WAYS EXCEPT FOR ALONG EXISTING RETAINING WALLS. SEE DETAIL 3 SHEET C601
- 9 CONSTRUCT METAL KEYWAY/CONSTRUCTION JOINT AT NET LINE AND BETWEEN COURTS AS SHOWN. SEE DETAIL 4 ON C601
- 10 CONCRETE FILLER STRIP WITH SLIP DOWELS. SEE DETAIL 5 & 7 ON C601
- 11 COORDINATE WITH WSU CAMPUS PLANNING AND CONSTRUCTION DEPARTMENT TO RAISE EXISTING STORAGE SHEDS. SHEDS TO MATCH TENNIS COURT ELEVATION. POUR NEW CONCRETE SLAB AT ELEVATIONS SHOWN ON SHEET C291 GRADING PLAN
- 12 SPECTATOR AREA
- 13 INSTALL PREFABRICATED METAL STAIRS WITH 42" LANDING PER SPECIFICATION 055100. INSTALL PER MANUFACTURER SPECIFICATIONS
- 14 INSTALL LOCKING GATE. GATE TO MATCH SIDEWALK WIDTH.
- 15 INSTALL TRENCH DRAIN PER DETAIL 3 SHEET C602
- 16 3.5' FENCE OPENING, NO GATE
- 17 PERIMETER BEAM FOR POST TENSION SLAB, SEE DETAIL 5 ON C601
- 18 INSTALL 5' SIDEWALK PER DETAIL 2 SHEET C602
- 19 INSTALL 6' SIDEWALK PER DETAIL 2 SHEET C602
- 20 FINISH AREA OUTSIDE COURTS WITH PLEXIPAVE ACRYLIC FINISH SYTEM IN "DARK GREEN" COLOR (TYP)
- 21 FINISH COURTS WITH PLEXIPAVE ACRYLIC FINISH SYTEM IN "PRO PURPLE" COLOR (TYP)
- 22 INSTALL 4" PVC DRAIN PIPE TO TRENCH DRAIN END SECTION. PIPE TO MATCH TRENCH DRAIN OUT ELEVATION. MAINTAIN NO LESS THAN 0.5% SLOPE ON PIPE. DAYLIGHT PIPE 5' MIN FROM CONCRETE TO DRAIN.
- 23 INSTALL ADA COMPLIANT HANDRAIL. SEE DETAIL 5 ON C602.
- 24 ADJUST UTILITY VAULT LID TO MATCH FINISH GRADE ELEVATION

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 RECORD OF REVISIONS:

ADDENDUM #1 - JUNE 10, 2010

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**PROJECT MANAGER:** SETH WALLACE  
**CHECKED BY:**  
**DRAWN BY:** ALAN REGAL  
**DRAWING SCALE:**  
**ISSUE DATE:** MAY 17, 2010

**CALDWELL RICHARDS SORENSEN**

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**STATE OF UTAH D.F.C.M.**

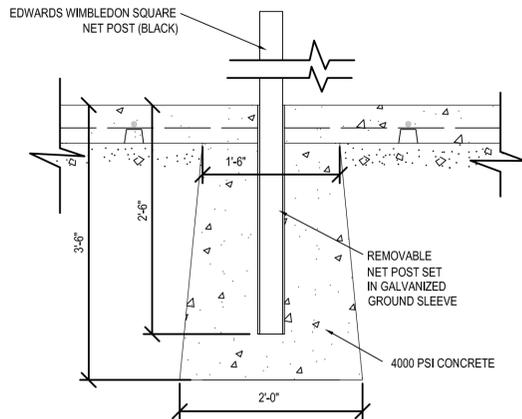
**WEBER STATE UNIVERSITY TENNIS COURTS**

**TENNIS COURT PLAN**

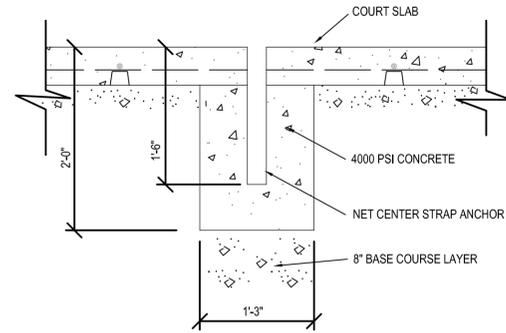
PROJECT NUMBER: **10030C**

SHEET: **5** OF **9**

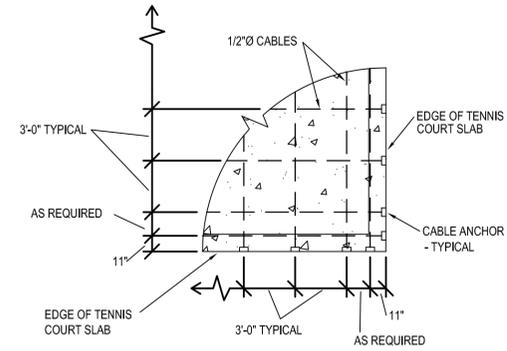
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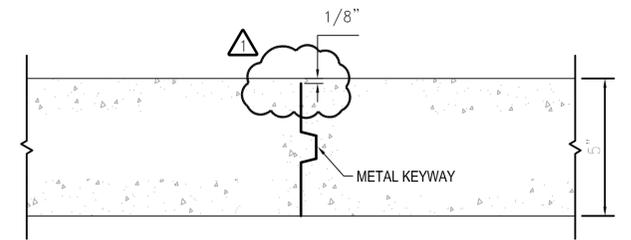
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C601  
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**TYPICAL NET POST FOUNDATION**



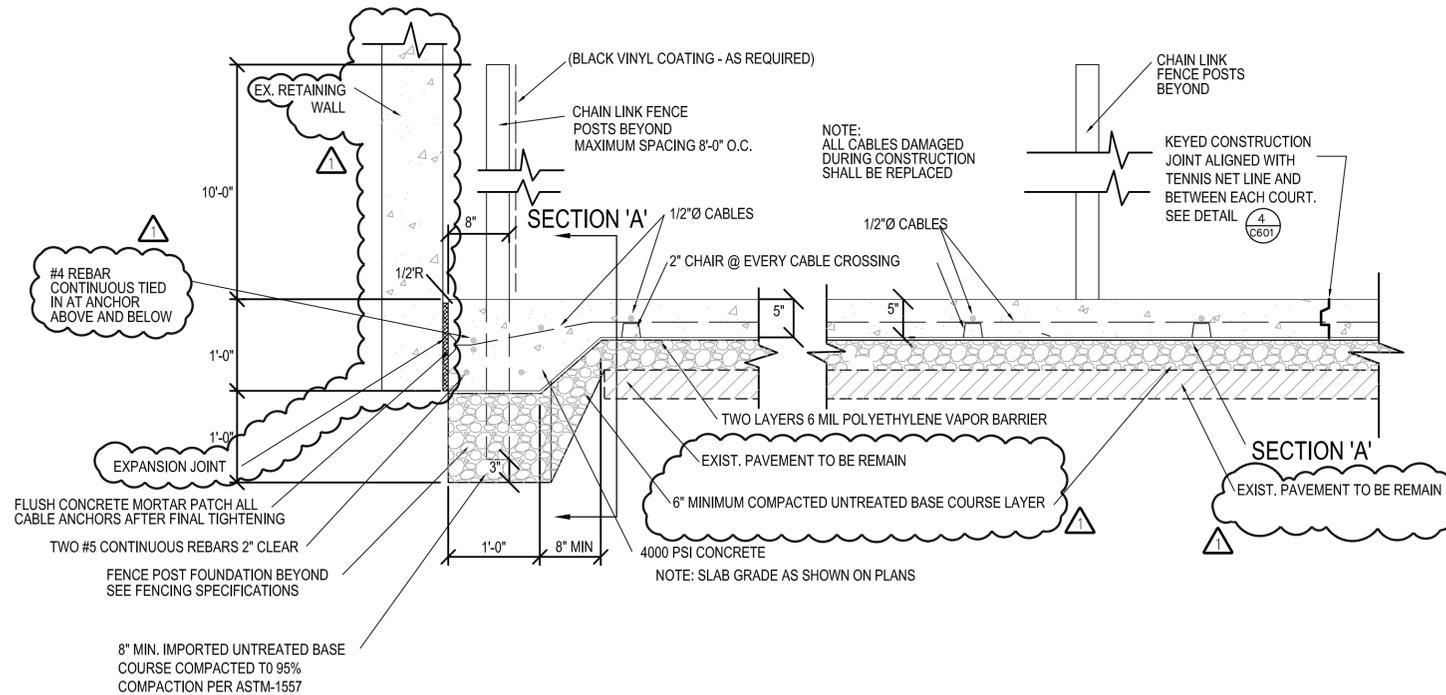
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C601  
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**TYPICAL NET CENTER STRAP ANCHOR**



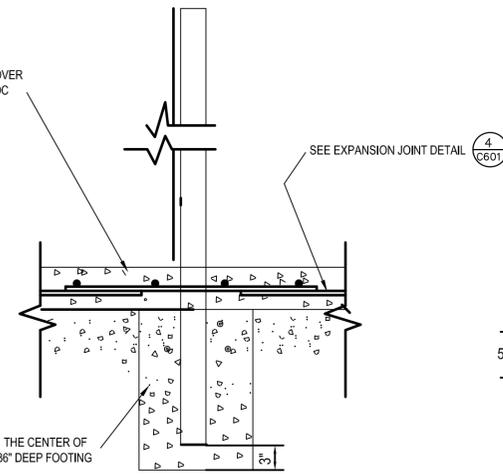
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C601  
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**TYPICAL CABLE LAYOUT**



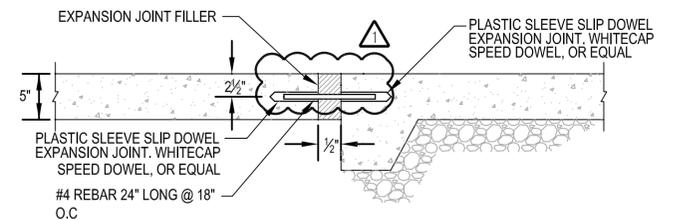
4  
C601  
NO SCALE  
**METAL KEYWAY/CONSTRUCTION JOINT DETAIL**



5  
C601  
NO SCALE  
**TYPICAL PERIMETER BEAM SECTION**



6  
C601  
NO SCALE  
**INTERIOR FENCE DETAIL**



7  
C601  
NO SCALE  
**ALTERNATE EXPANSION JOINT WITH SLIP DOWEL**

PLOT DATE AND TIME: 6/10/2010 10:52 AM  
TAB: C601

FILE PATH AND NAME: P:\2010\10330C\NS\10330C\Weber State Tennis Courts\Drawings\Sheets\DETAILS.dwg

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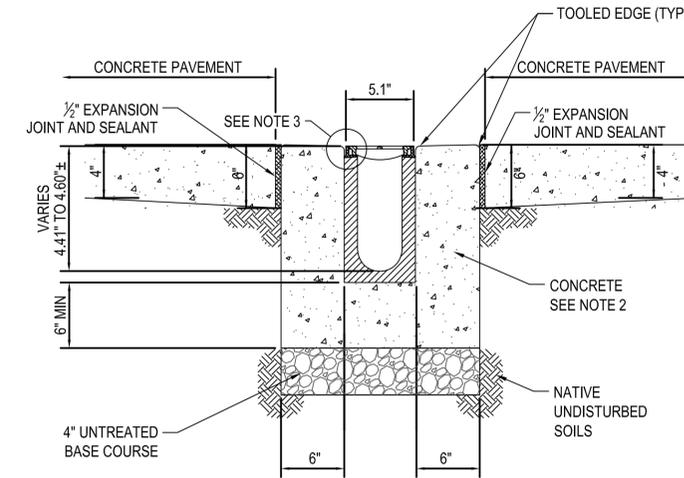
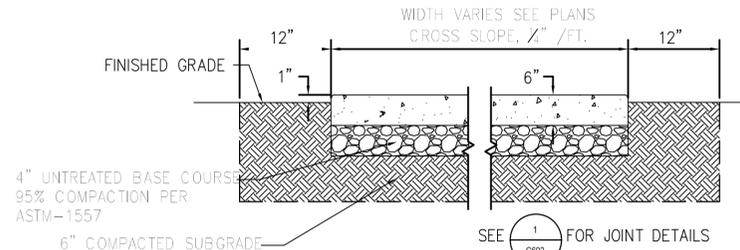
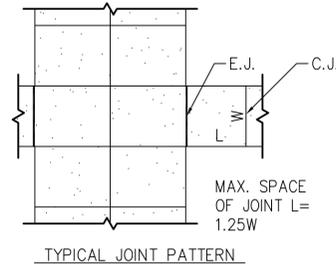
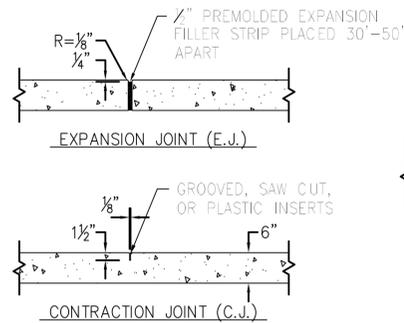
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STATE OF UTAH D.F.C.M.  
WEBER STATE UNIVERSITY TENNIS COURTS  
TENNIS COURT/SITE DETAILS

PROFESSIONAL ENGINEER  
No. 5254604-2202  
SETH P. WALLACE  
STATE OF UTAH

PROJECT NUMBER  
10030C  
SHEET 6 OF 9  
SHEET NUMBER  
C601



**ACO K100S TRENCH DRAIN NOTES:**  
 1. MINIMUM CONCRETE STRENGTH OF 4000 PSI. THE CONCRETE SHALL BE VIBRATED TO ELIMINATE AIR POCKETS.  
 2. INSTALL EXPANSION AND CRACK CONTROL JOINTS TO PROTECT THE CHANNEL AND THE CONCRETE SURROUND.  
 3. THE FINISHED LEVEL OF THE CONCRETE SURROUND SHALL BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.

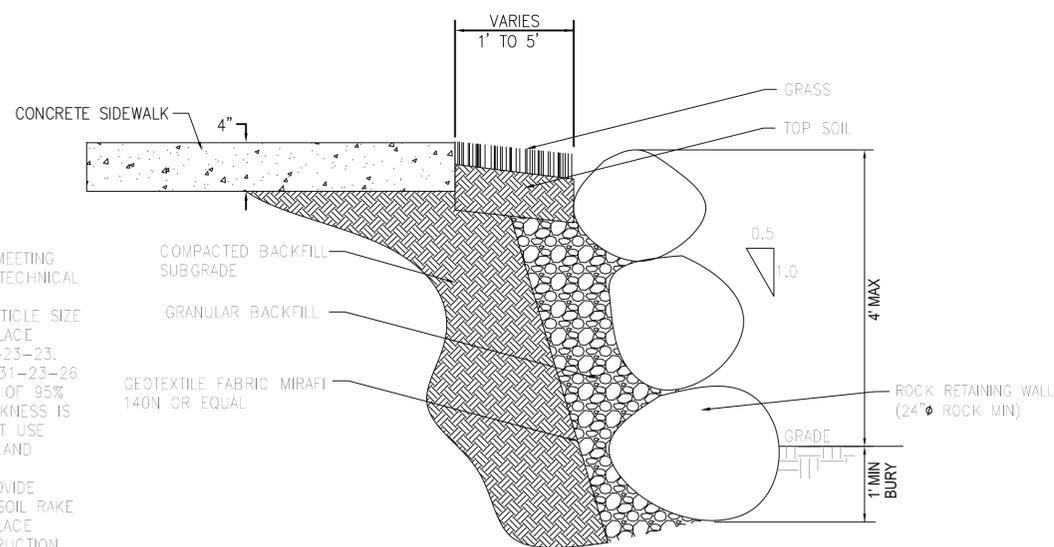
- THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100S CHANNEL SYSTEM AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH. OR EQUAL
- CHANNELS WILL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST IN GALV. STEEL RAIL AND SUPPLIED WITH SLOTTED DUCTILE IRON GRATES.
- THE SYSTEM SHALL BE 4 INCHES (100MM) NOMINAL INSIDE WIDTH WITH A 5.1 IN. OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.6%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.
- THE CHANNEL SYSTEM SHALL BE INDEPENDENTLY CERTIFIED TO WITHSTAND LOADINGS TO LOAD CLASS B (DIN19580). GRATES SHALL BE SECURED USING 'QUICKLOK' BOLTLISS LOCKING SYSTEM. GRATE AND LOCKING SYSTEM SHALL BE FULLY REMOVABLE FROM CHANNEL.
- POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF: COMPRESSIVE STRENGTH RANGE BETWEEN 14,000-14,500 PSI; FLEXURAL STRENGTH BETWEEN 3600-4500 PSI; TENSILE STRENGTH OF 1500 PSI. THE MATERIAL WATER ABSORPTION RATE SHALL NOT EXCEED 0.1% BY WEIGHT AND SHALL BE RESISTANT TO PROLONGED SALT EXPOSURE, REPETITIVE FROST CYCLES AND CHEMICALLY RESISTANT TO DILUTE ACIDS AND ALKALIS.
- THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

1 **SIDEWALK JOINT DETAILS**  
 C602 NO SCALE

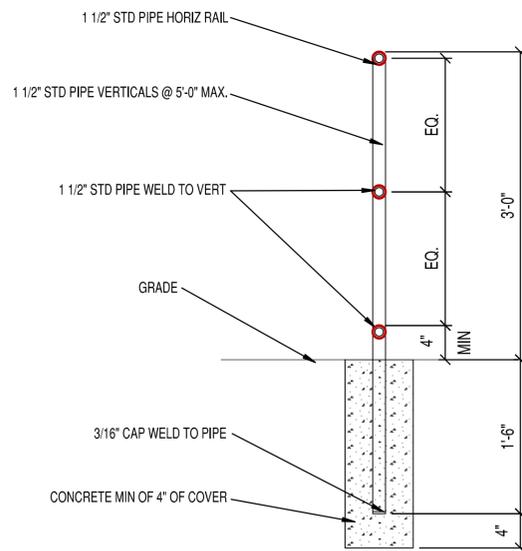
2 **CONCRETE SIDEWALK**  
 C602 NO SCALE

3 **ACO K100S TRENCH DRAIN SYSTEM DETAIL**  
 C602 NO SCALE

**NOTES:**  
 1. ROCK RETAINING WALLS NOT MEETING THIS DESIGN WILL REQUIRE A GEOTECHNICAL ENGINEER DESIGN  
 2. BACKFILL: LIMIT MAXIMUM PARTICLE SIZE OF BACKFILL MATERIAL TO 4". PLACE BACKFILL PER APWA SECTION 31-23-23. COMPACTING PER APWA SECTION 31-23-26 TO A MODIFIED PROCTOR DENSITY OF 95% OR GREATER. MAXIMUM LIFT THICKNESS IS 8" BEFORE COMPACTION. DO NOT USE CLAY WITHOUT ENGINEERS REVIEW AND ACCEPTANCE.  
 3. LANDSCAPE RESTORATION: PROVIDE LANDSCAPED SURFACES WITH TOPSOIL RAKE TO MATCH EXISTING GRADE. REPLACE VEGETATION TO MATCH PRECONSTRUCTION CONDITIONS. SEE APWA SECTION 32-92-00 OR 32-93-13 REQUIREMENTS.  
 4. MUST MEET BUILDING CODE STANDARDS FOUND IN IBC.

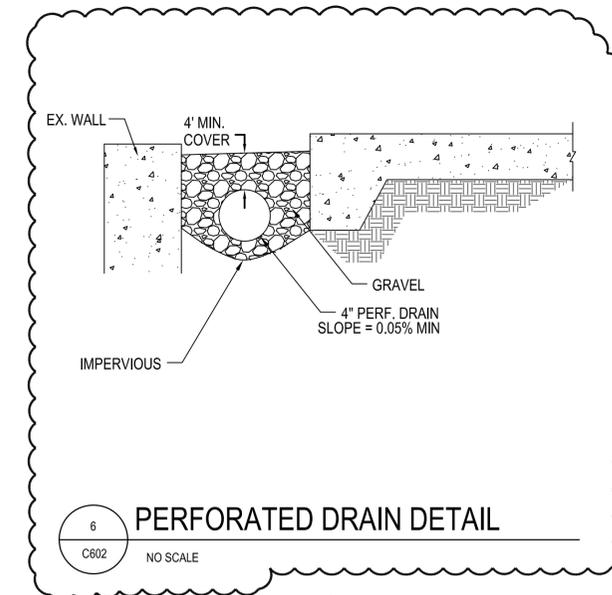


4 **ROCK RETAINING WALL DETAIL**  
 C602 NO SCALE



5 **GUARDRAIL DETAIL**  
 C602 NO SCALE

**NOTE:**  
 1- WELD ALL JOINTS WATER TIGHT AND GRIND SMOOTH  
 2- ALL STEEL TO BE GALVANIZED AND PAINTED.



6 **PERFORATED DRAIN DETAIL**  
 C602 NO SCALE

FILE PATH AND NAME: P:\0101030C\US\1030C\Drawings\Sheets\DETAILS.dwg

PLOT DATE AND TIME: 6/10/2010 10:37 AM

TAB: C602

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**PROJECT MANAGER**  
 SETH WALLACE, PE

**CHECKER BY**  
 ALAN REGAL

**DRAWN BY**  
 ALAN REGAL

**DRAWING SCALE**

**ISSUE DATE**  
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**PROJECT NUMBER**  
 10030C

**SHEET** 7 **OF** 9

**C602**