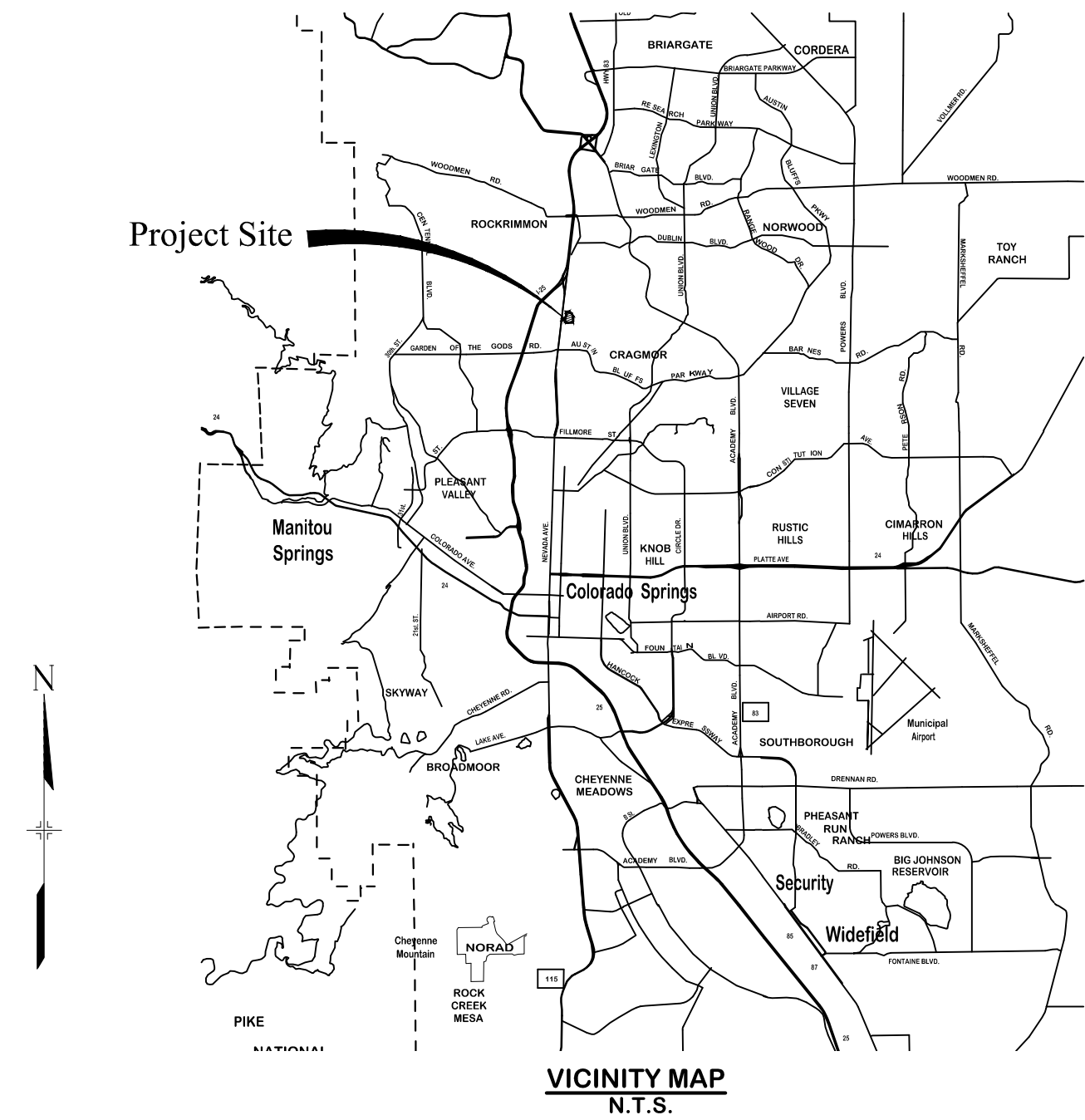


UCCS ARENA PARKING LOT
COLORADO SPRINGS, COLORADO
SITE DEVELOPMENT PLANS
APRIL 2012

INDEX OF SHEETS

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OWNER:
UNIVERSITY OF COLORADO AT COLORADO SPRINGS (UCCS)
1420 AUSTIN BLUFFS PARKWAY
COLORADO SPRINGS, CO 80918
CONTACT: GARY REYNOLDS
(719) 255-3505

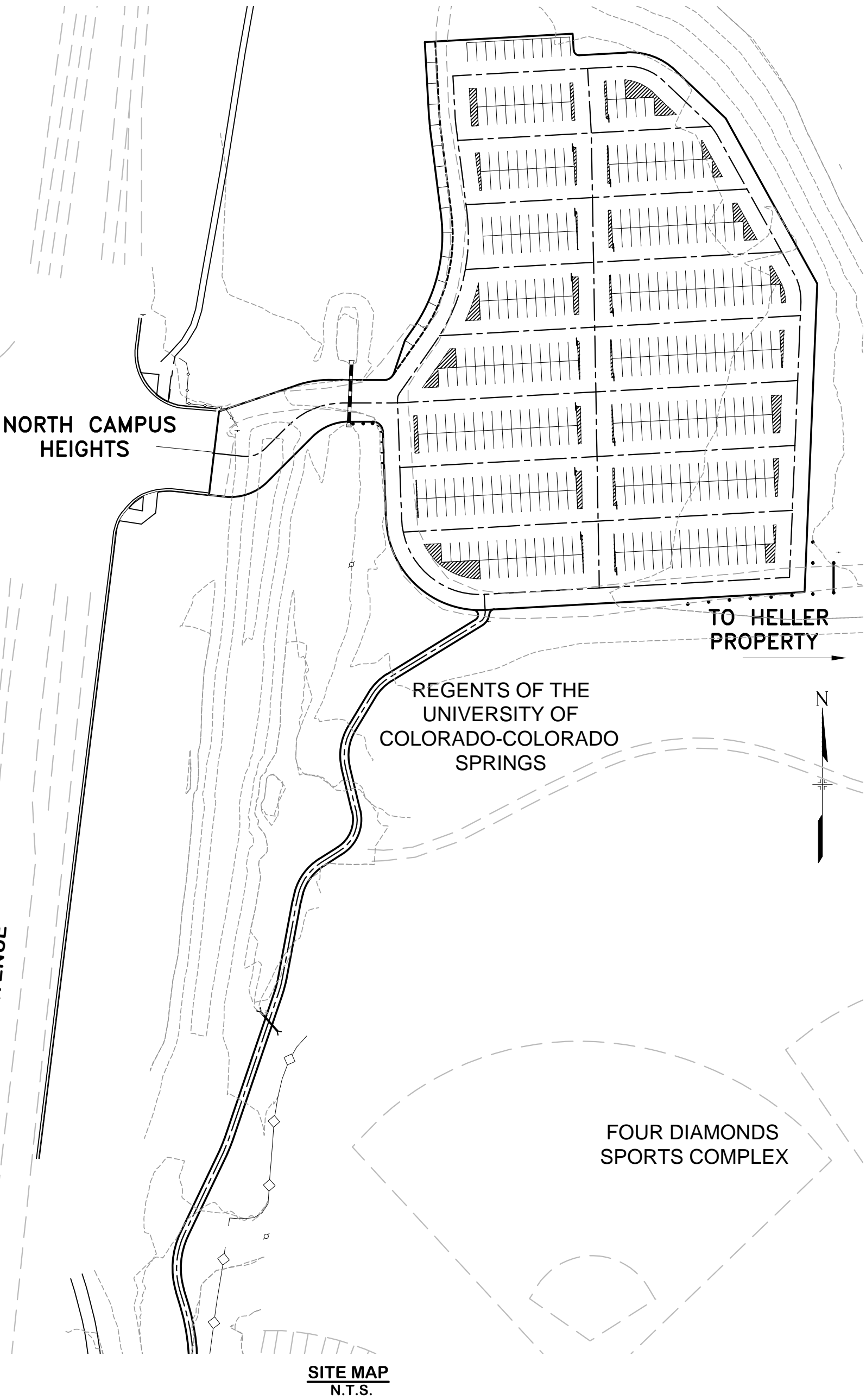
CIVIL ENGINEERS:
MATRIX DESIGN GROUP, INC.
2435 RESEARCH PARKWAY, SUITE 300
COLORADO SPRINGS, CO 80920

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



MCBAUER
INVESTMENTS

RIDGELINE
INVESTMENTS



SITE MAP
N.T.S.

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "UCCS CAMPUS CONSTRUCTION STANDARDS".
- UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATING OR GRADING.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE UCCS FACILITIES DIRECTOR.
- THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND INFORM HIMSELF OF THE CONDITIONS TO BE ENCOUNTERED DURING CONSTRUCTION.
- ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE. THE EXCEPTION IS TRAFFIC CONTROL DEVICES, WHICH SHALL BE SALVAGED FOR CITY MAINTENANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENTATION, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN COLORADO.
- THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FT OF THE EDGE OF TRAVELED WAY.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS IN ADVANCE FOR ANY REQUIRED MODIFICATION OF TRAFFIC SIGNALS WITHIN CONSTRUCTION AREA AS NECESSARY TO MAINTAIN SAFE OPERATIONS.
- ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- ACCESS TO HELLER PROPERTY MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

TRAFFIC GENERAL NOTES:

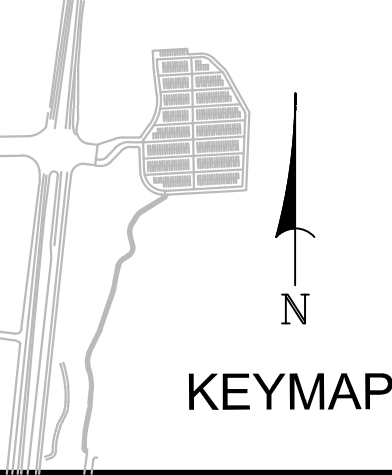
- BEFORE EXCAVATING, CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNS FROM THE START OF THE CONSTRUCTION PROJECT UNTIL ACCEPTANCE BY CITY TRAFFIC ENGINEERING.
- ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENTS MARKINGS OR TRAFFIC SIGNALS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE CITY ENGINEERING INSPECTOR ASSIGNED TO THE PROJECT.
- CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO CITY TRAFFIC ENGINEERING FOR APPROVAL, AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE "TRAFFIC CONTROLS FOR STREET CONSTRUCTION, UTILITY WORK, AND MAINTENANCE OPERATIONS", M.U.T.C.D. SUPPLEMENT FOR THE CITY OF COLORADO SPRINGS, AUGUST 1992.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNAL MODIFICATIONS.
- CONTRACTOR IS TO CONTACT TRAFFIC ENGINEERING TO ARRANGE FOR REMOVAL AND REPLACEMENT OF ANY SIGNS CONFLICTING WITH CONSTRUCTION. CONTRACTORS ARE NOT AUTHORIZED TO MOVE EXISTING TRAFFIC CONTROL SIGNS. ANY SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING CONSTRUCTION, SHALL BE COVERED. BEFORE COVERING THE SIGN, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE TRAFFIC ENGINEER.

GRADING CONSTRUCTION NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE "UCCS CAMPUS CONSTRUCTION STANDARDS".
- THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES DURING THE WORK. ANY DAMAGE TO THE EXISTING UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR. PRIOR TO ANY EXCAVATION, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST TWO WORKING DAYS PRIOR TO DIGGING.
- CLEARING AND GRUBBING FOR THIS PROJECT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK. INCLUDED IN THIS WORK IS THE REMOVAL OF ALL VEGETATION AND PLANT MATERIAL. ITEMS DESIGNATED IN THE PLANS TO BE REMOVED UNDER A SPECIFIC ITEM WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE SPECIFICATION FOR THAT ITEM.
- THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
- THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:
 - STRAW BALE BARRIERS WHERE NEEDED.
 - SILT FENCE WHERE NEEDED.
 - TEMPORARY DETENTION BASINS WHERE NEEDED.
 - MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED.
 - TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES ALONG THE SITE. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- CONTRACTOR WILL OBTAIN COPIES OF THE SOILS REPORT FROM THE GEOTECHNICAL ENGINEER AND A COPY WILL BE KEPT ONSITE DURING ALL EARTHWORK OPERATIONS.
- THE SITE SHALL BE STRIPPED A MINIMUM OF 0.5' BELOW EXISTING GRADE.
- MAXIMUM CUT/FILL SLOPES SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED. ALL SLOPES MUST BE PROTECTED FROM EROSION.
- CONTOURS SHOWN ARE FOR FINAL PAVING OR GROUND. ADJUSTMENT TO THE SUBGRADE IS THE CONTRACTORS RESPONSIBILITY.
- ALL DISTURBED AREAS THAT ARE UNSURFACED OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEEDED, FERTILIZED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.
- ON-SITE MATERIALS SUITABLE FOR FILL BENEATH DRIVES AND PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH GUIDELINES PRESENTED IN THE SOILS REPORT.
- SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DESIGN SHALL BE USED FOR SETTING ELEVATIONS OF CURB, GUTTER, AND UTILITIES.
- BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARK, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
- ALL UTILITIES (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- ALL EARTH MOVING AND PLACEMENT OPERATIONS SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS IDENTIFIED IN THE SOILS REPORT.
- SPOT ELEVATIONS REPRESENT FINISH GRADE UNLESS OTHERWISE NOTED.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR WILL OBTAIN STATE APPROVAL OF THEIR EPA STORM WATER PERMIT APPLICATION TO INCLUDE A STORM WATER POLLUTION PREVENTION PLAN, PRIOR TO START OF CONSTRUCTION.
- ALL WORK SHALL BE IN CONFORMANCE WITH STATE ADOPTED CODES: 2009 INTERNATIONAL CODES (IBC, IPC, IECC), 2011 NATIONAL ELECTRICAL CODE (NEC), 2003 ICC/ANSI A117.1 ACCESSIBILITY STANDARDS. STATE REFERENCED CODES: 2009 INTERNATIONAL FIRE CODE, 2009 INTERNATIONAL EXISTING BUILDING CODE, 2009 INTERNATIONAL FUEL GAS CODE.

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BENCHMARK:
A #5 REBAR SET AT TOP OF BANK 80 FEET WEST OF THE REAR ACCESS TO UCCS AT THE NORTHEAST CORNER OF THE PROJECT (392.492.31 NORTH 196.341.34 EAST). ELEVATION IS 6276.74, NAVD88 (GEOID 9). A CROSS REFERENCE OF 6247.56 WAS ALSO MADE TO THE FIMS VERTICAL CONTROL MONUMENT "ABV2" BEING A 2 INCH DIAMETER ALUMINUM CAP STAMPED "CSU FIMS CONTROL ABV2" ON THE SOUTH END OF THE HEADWALL ON THE EAST SIDE OF A DRAINAGE TUNNEL UNDER THE OLD RAILROAD. NOTE: THE VERTCON ADJUSTMENT OF NAVD 88 TO NGVD 29 (FIMS) IS 1.108 METERS.



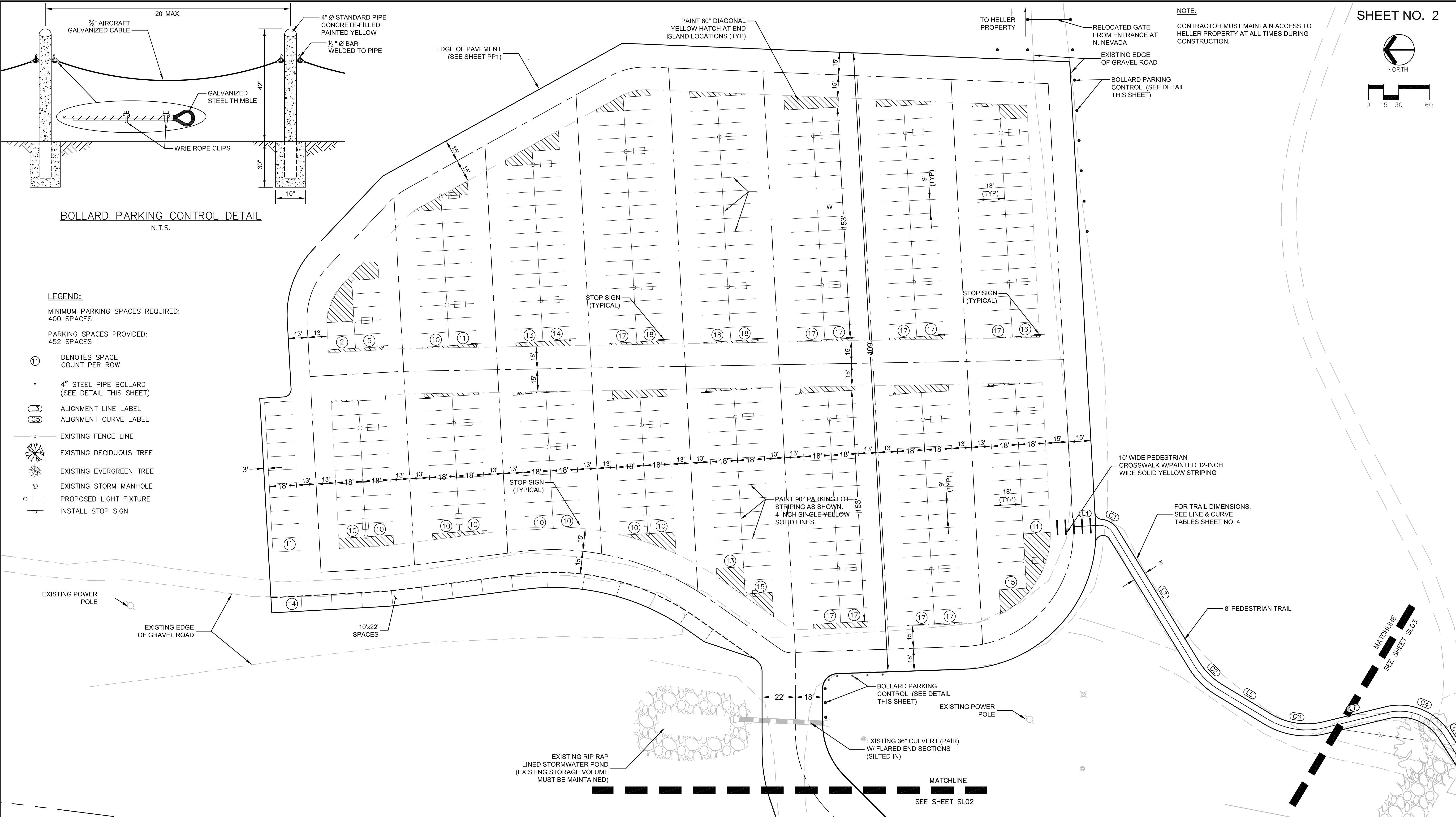
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT
SITE DEVELOPMENT PLANS

TITLE SHEET

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| DESIGNED BY: REP | SCALE | | DATE ISSUED: | APRIL 9, 2012 | |
| DRAWN BY: BAS | HORIZ: | N/A | SHEET NO. 1 OF 16 | | |
| CHECKED BY: REP | VERT: | N/A | | | |



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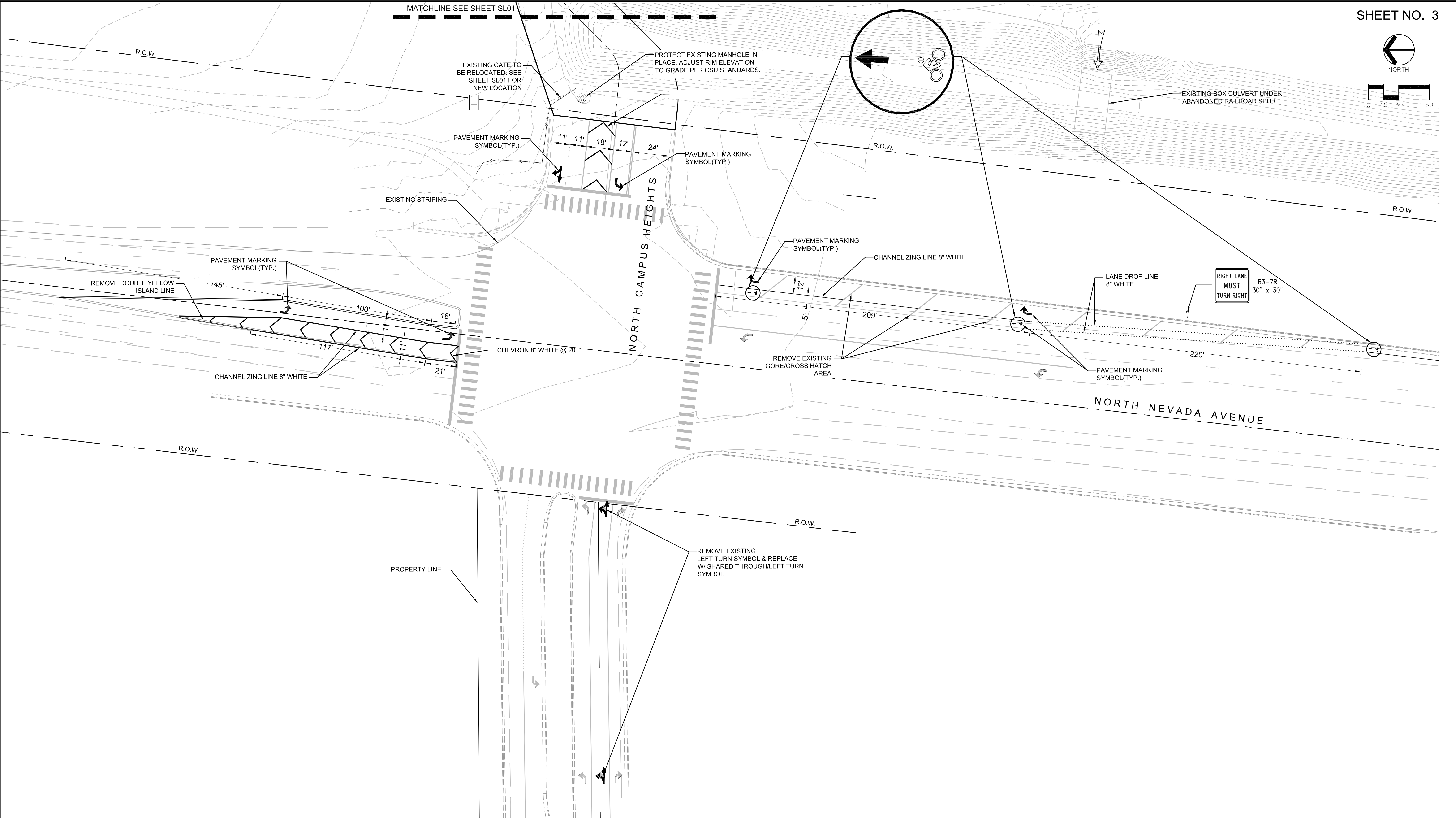
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

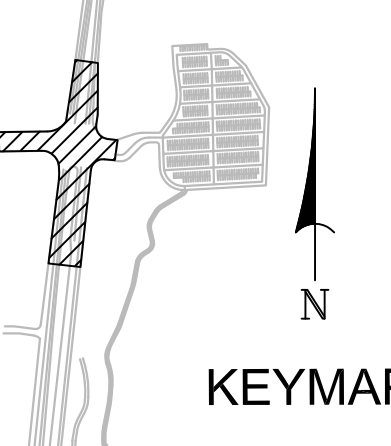
SITE LAYOUT- PARKING LOT

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| DESIGNED BY: REP | SCALE | DATE ISSUED: | APRIL 9, 2012 | SHEET NO. 2 OF 16 | SL01 |
| DRAWN BY: BAS | HORIZ: 1" = 30' | | | | |
| CHECKED BY: REP | VERT: N/A | | | | |



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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

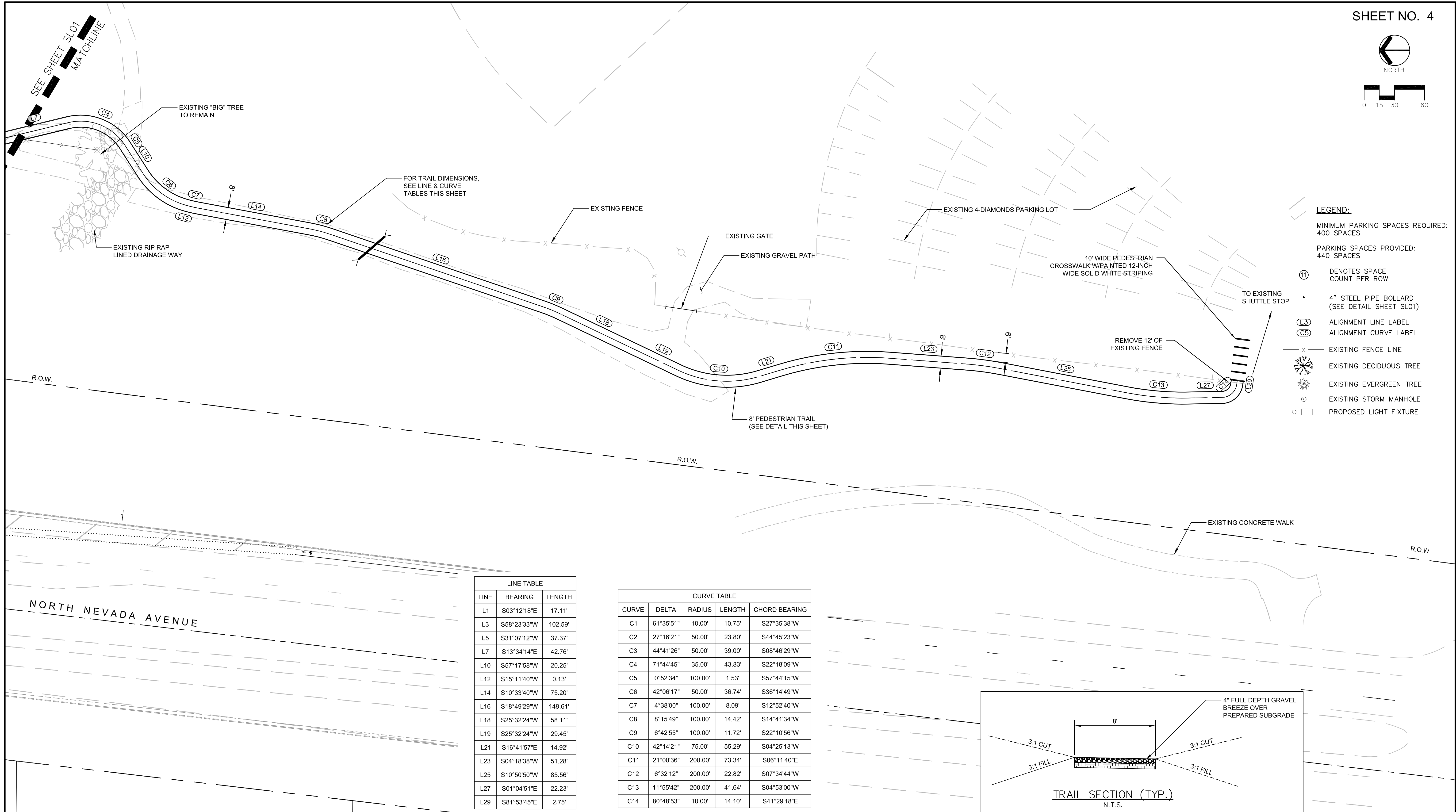
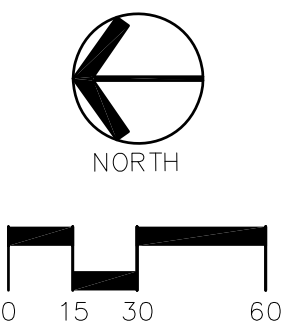


UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

INTERSECTION IMPROVEMENTS

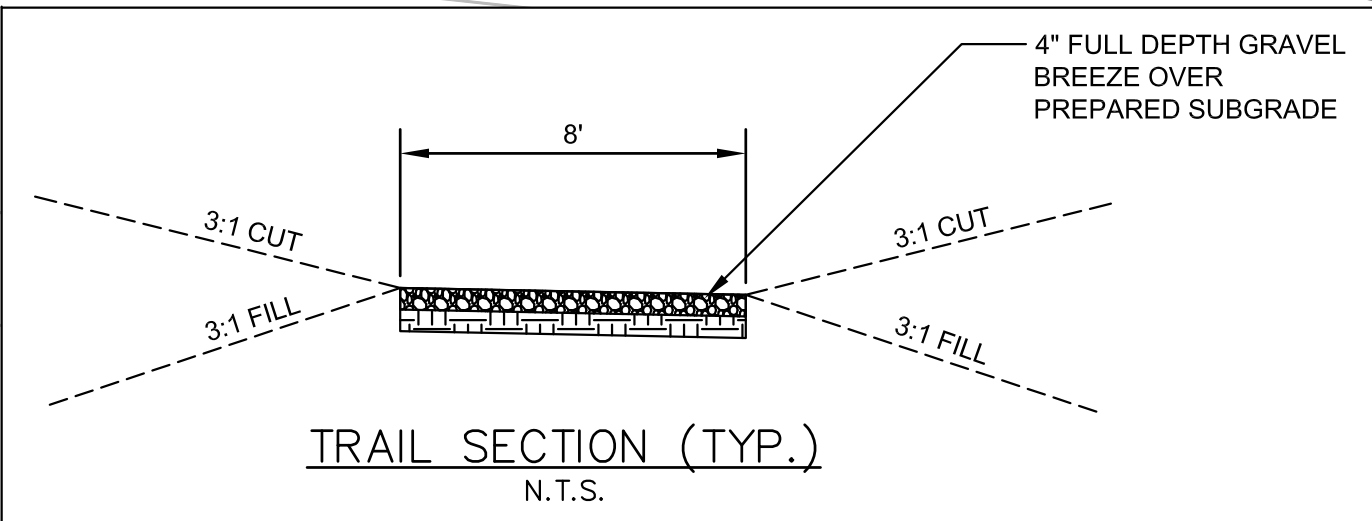
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| DESIGNED BY: REP | SCALE | DATE ISSUED: | SL02 |
| DRAWN BY: BAS | HORIZ: 1" = 30' | APRIL 9, 2012 | |
| CHECKED BY: REP | VERT: N/A | SHEET NO. 3 OF 16 | |



- LEGEND:**
- MINIMUM PARKING SPACES REQUIRED:
400 SPACES
- PARKING SPACES PROVIDED:
440 SPACES
- ⑪ DENOTES SPACE COUNT PER ROW
 - 4" STEEL PIPE BOLLARD (SEE DETAIL SHEET SL01)
 - L3 ALIGNMENT LINE LABEL
 - C5 ALIGNMENT CURVE LABEL
 - x EXISTING FENCE LINE
 - ⊗ EXISTING DECIDUOUS TREE
 - ⊗ EXISTING EVERGREEN TREE
 - ⊗ EXISTING STORM MANHOLE
 - PROPOSED LIGHT FIXTURE

| LINE TABLE | | |
|------------|-------------|---------|
| LINE | BEARING | LENGTH |
| L1 | S03°12'18"E | 17.11' |
| L3 | S58°23'33"W | 102.59' |
| L5 | S31°07'12"W | 37.37' |
| L7 | S13°34'14"E | 42.76' |
| L10 | S57°17'58"W | 20.25' |
| L12 | S15°11'40"W | 0.13' |
| L14 | S10°33'40"W | 75.20' |
| L16 | S18°49'29"W | 149.61' |
| L18 | S25°32'24"W | 58.11' |
| L19 | S25°32'24"W | 29.45' |
| L21 | S16°41'57"E | 14.92' |
| L23 | S04°18'38"W | 51.28' |
| L25 | S10°50'50"W | 85.56' |
| L27 | S01°04'51"E | 22.23' |
| L29 | S81°53'45"E | 2.75' |

| CURVE TABLE | | | | |
|-------------|-----------|---------|--------|---------------|
| CURVE | DELTA | RADIUS | LENGTH | CHORD BEARING |
| C1 | 61°35'51" | 10.00' | 10.75' | S27°35'38"W |
| C2 | 27°16'21" | 50.00' | 23.80' | S44°45'23"W |
| C3 | 44°41'26" | 50.00' | 39.00' | S08°46'29"W |
| C4 | 71°44'45" | 35.00' | 43.83' | S22°18'09"W |
| C5 | 0°52'34" | 100.00' | 1.53' | S57°44'15"W |
| C6 | 42°06'17" | 50.00' | 36.74' | S36°14'49"W |
| C7 | 4°38'00" | 100.00' | 8.09' | S12°52'40"W |
| C8 | 8°15'49" | 100.00' | 14.42' | S14°41'34"W |
| C9 | 6°42'55" | 100.00' | 11.72' | S22°10'56"W |
| C10 | 42°14'21" | 75.00' | 55.29' | S04°25'13"W |
| C11 | 21°00'36" | 200.00' | 73.34' | S06°11'40"E |
| C12 | 6°32'12" | 200.00' | 22.82' | S07°34'44"W |
| C13 | 11°55'42" | 200.00' | 41.64' | S04°53'00"W |
| C14 | 80°48'53" | 10.00' | 14.10' | S41°29'18"E |



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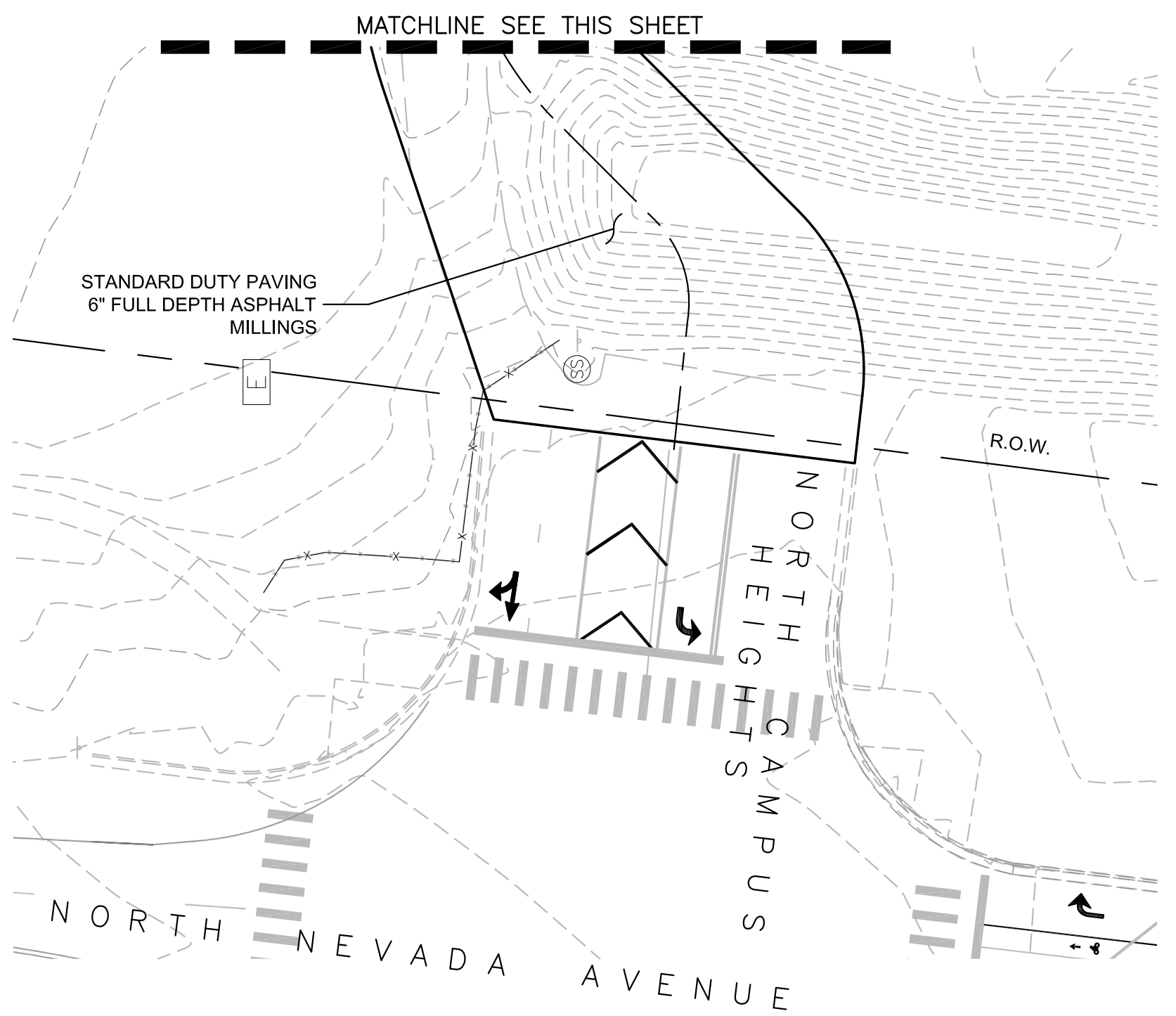
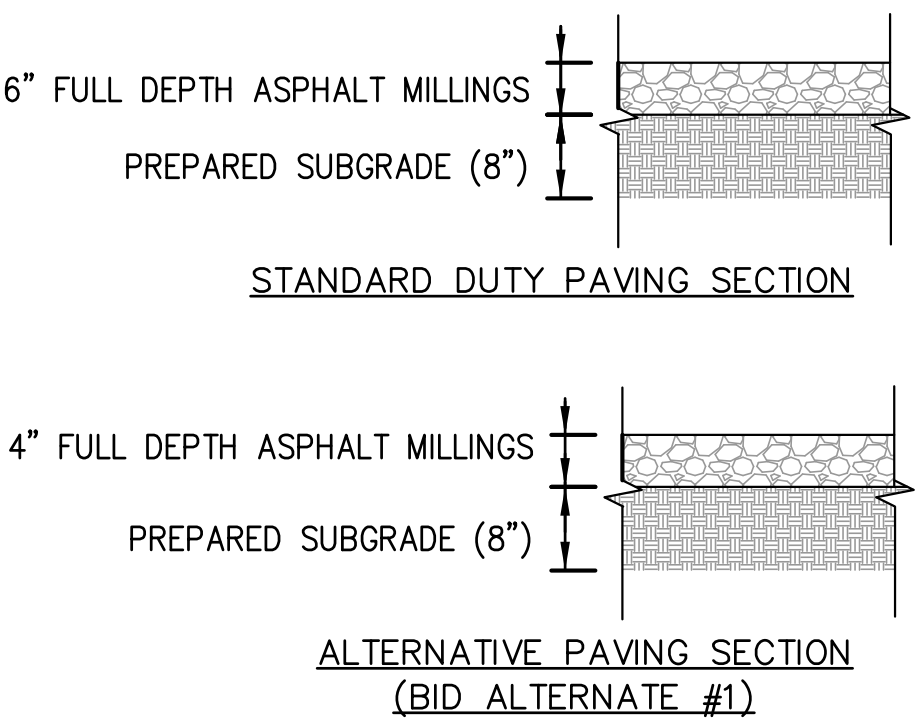
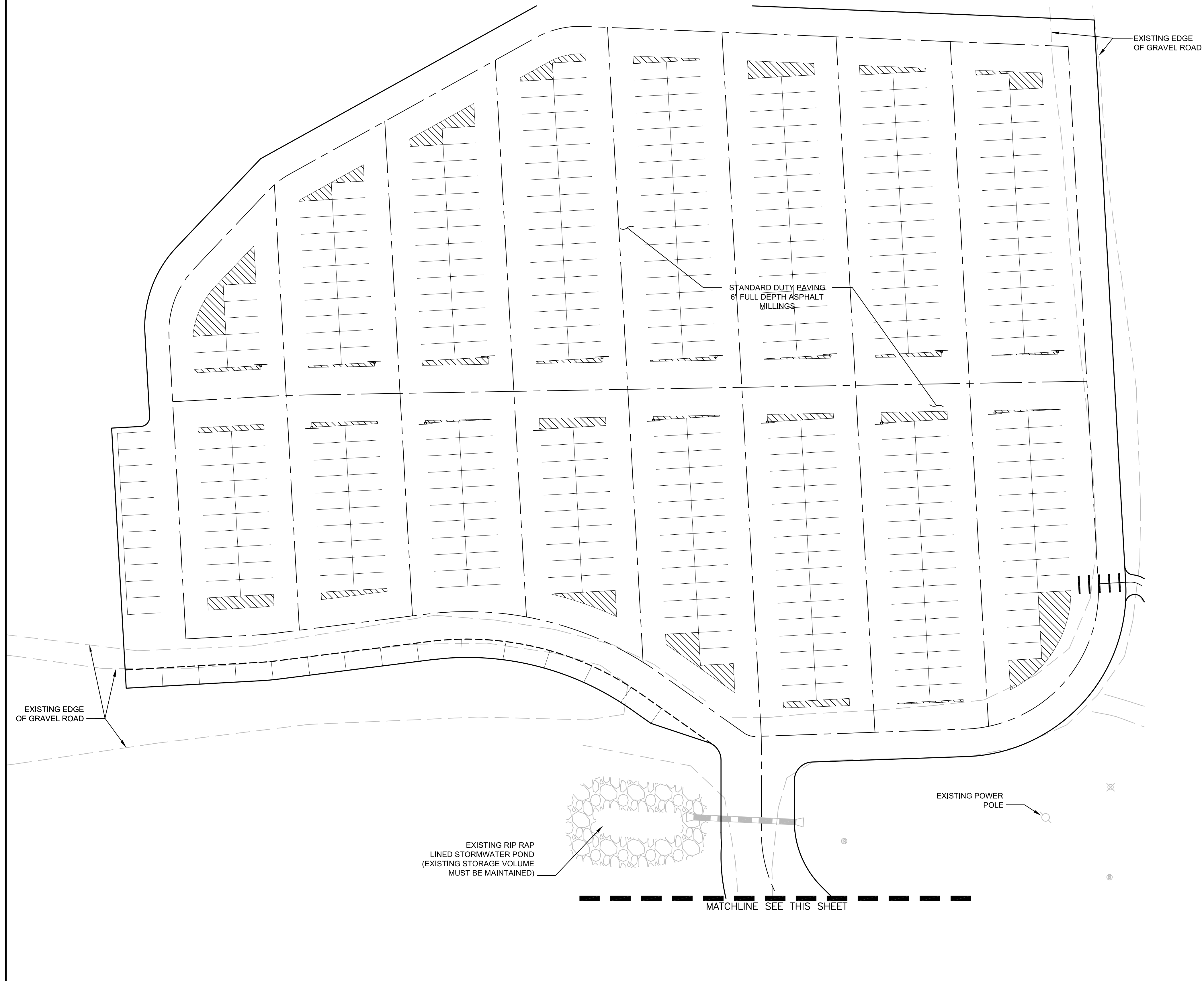
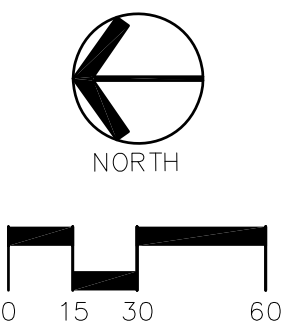
BENCHMARK:
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UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

SITE LAYOUT- PEDESTRIAN TRAIL

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| DESIGNED BY: REP | SCALE | DATE ISSUED: | APRIL 9, 2012 | SL03 |
| DRAWN BY: BAS | HORIZ: 1" = 30' | SHEET NO. 4 OF 16 | | |
| CHECKED BY: REP | VERT: N/A | | | |



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KEYMAP

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

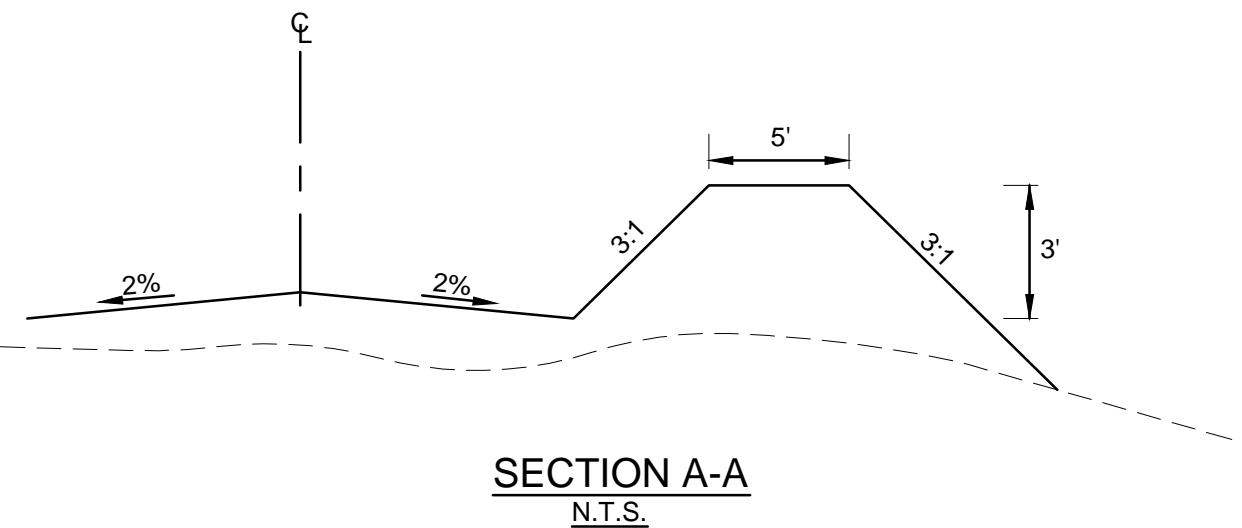
PAVING PLAN

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| DESIGNED BY: REP | SCALE | DATE ISSUED: | PP1 |
| DRAWN BY: BAS | HORIZ: 1" = 30' | APRIL 9, 2012 | |
| CHECKED BY: REP | VERT: N/A | SHEET NO. 5 OF 16 | |



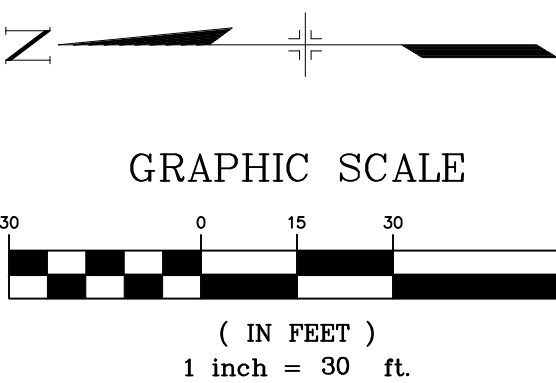
LEGEND:

- LIMITS OF GRADING
- - - EXISTING CONTOURS
- PROPOSED CONTOURS
- SPOT ELEVATION
- 1.65% PROPOSED DIRECTION OF FLOW & SLOPE
- DIRECTION OF FLOW (EXISTING)
- ⊞ RIP RAP (EXISTING)
- BVCS BEGINNING OF VERTICAL CURVE STATION
- EVCS END OF VERTICAL CURVE STATION
- BVCE BEGINNING OF VERTICAL CURVE ELEVATION
- EVCE END OF VERTICAL CURVE ELEVATION



NOTES:

- 1. SEE TITLE SHEET FOR GRADING PLAN GENERAL NOTES



| REVISIONS | | | | | |
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| NO. | DATE | BY | DESCRIPTION | APPROVED BY: | DATE |
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BENCHMARK:
A #5 REBAR SET AT TOP OF BANK 80 FEET WEST OF THE REAR ACCESS TO UCCS AT THE NORTHEAST CORNER OF THE PROJECT (392.492.31 NORTH 196.341.34 EAST). ELEVATION IS 6276.74, NAVD88 (GEOID 9). A CROSS REFERENCE OF 6247.56 WAS ALSO MADE TO THE FIMS VERTICAL CONTROL MONUMENT 'ABV2' BEING A 2 INCH DIAMETER ALUMINUM CAP STAMPED 'CSU FIMS CONTROL ABV2' ON THE SOUTH END OF THE HEADWALL ON THE EAST SIDE OF A DRAINAGE TUNNEL UNDER THE OLD RAILROAD. NOTE: THE VERTCON ADJUSTMENT OF NAVD 88 TO NGVD 29 (FIMS) IS 1.108 METERS.

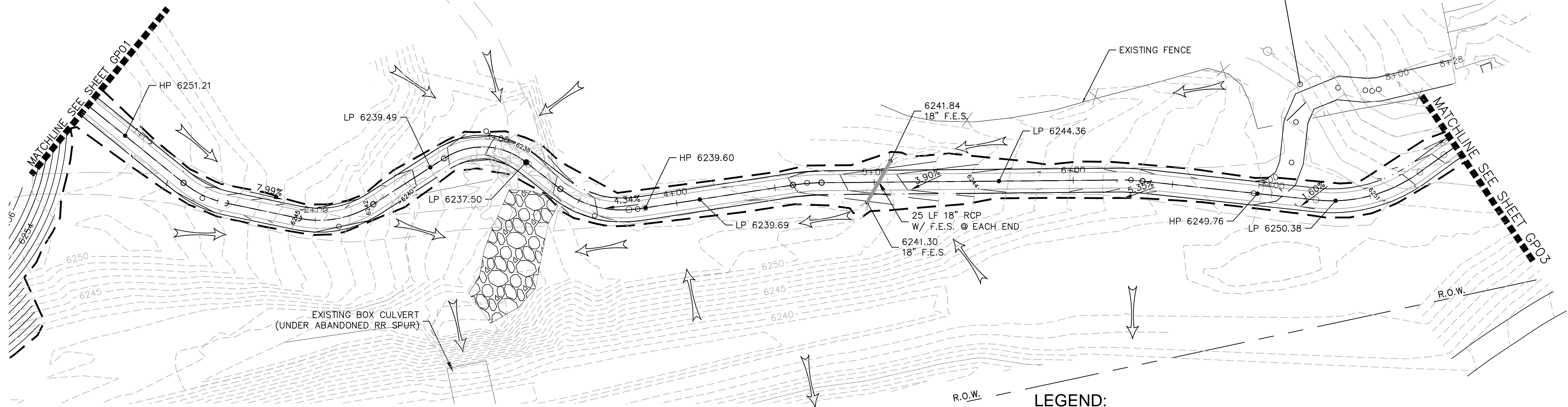
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

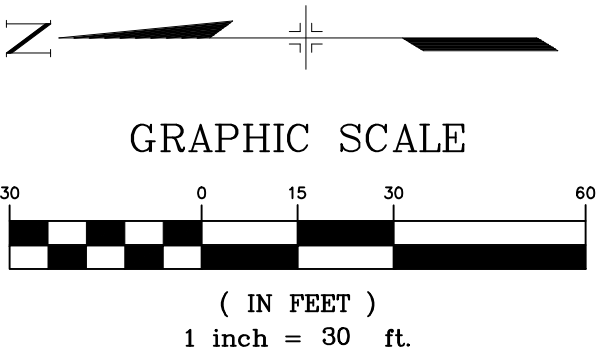
GRADING PLAN

| | | | |
|------------------|---------------|----------------------------|------|
| DESIGNED BY: REP | SCALE | DATE ISSUED: APRIL 9, 2012 | GP01 |
| DRAWN BY: BAS | HORIZ: 1"=30' | SHEET NO. 6 OF 16 | |
| CHECKED BY: REP | VERT: N/A | | |

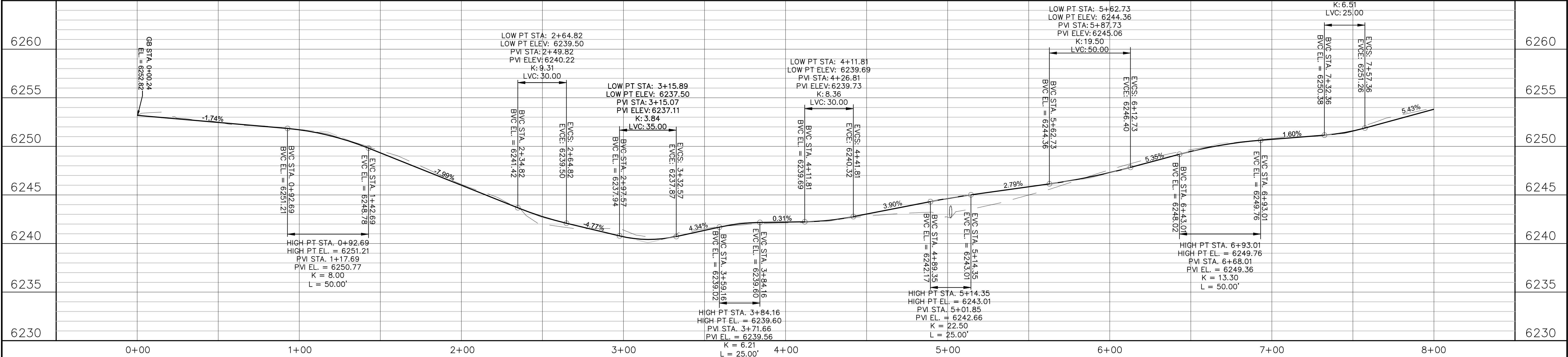


LEGEND:

- LIMITS OF GRADING
- - - EXISTING CONTOURS
- - - PROPOSED CONTOURS
- SPOT ELEVATION
- PROPOSED DIRECTION OF FLOW & SLOPE
- DIRECTION OF FLOW (EXISTING)
- ▨ RIP RAP (EXISTING)
- BEGINNING OF VERTICAL CURVE STATION
- END OF VERTICAL CURVE STATION
- BEGINNING OF VERTICAL CURVE ELEVATION
- END OF VERTICAL CURVE ELEVATION

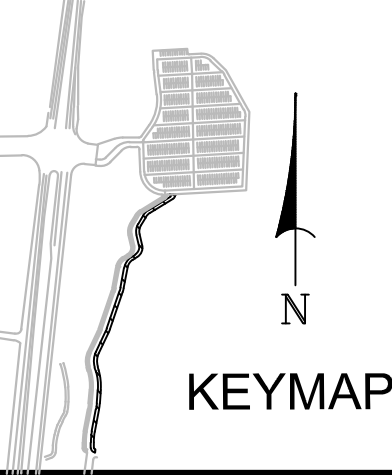


LOW PT STA: 7+32.36
LOW PT ELEV: 6250.38
PVI STA: 7+44.86
PVI ELEV: 6250.58

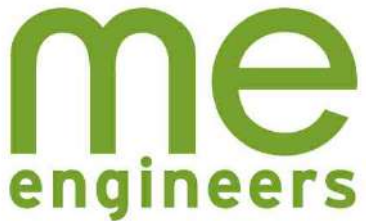


| REVISIONS | | | | |
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BENCHMARK:
A #5 REBAR SET AT TOP OF BANK 80 FEET WEST OF THE REAR ACCESS TO UCOS AT THE NORTHEAST CORNER OF THE PROJECT (392.492.31 NORTH 196.341.34 EAST). ELEVATION IS 6276.74, NAVD88 (GEOID 9). A CROSS REFERENCE OF 6247.56 WAS ALSO MADE TO THE FIMS VERTICAL CONTROL MONUMENT 'ABV2' BEING A 2 INCH DIAMETER ALUMINUM CAP STAMPED 'CSU FIMS CONTROL ABV2' ON THE SOUTH END OF THE HEADWALL ON THE EAST SIDE OF A DRAINAGE TUNNEL UNDER THE OLD RAILROAD. NOTE: THE VERTCON ADJUSTMENT OF NAVD 88 TO NGVD 29 (FIMS) IS 1.108 METERS.



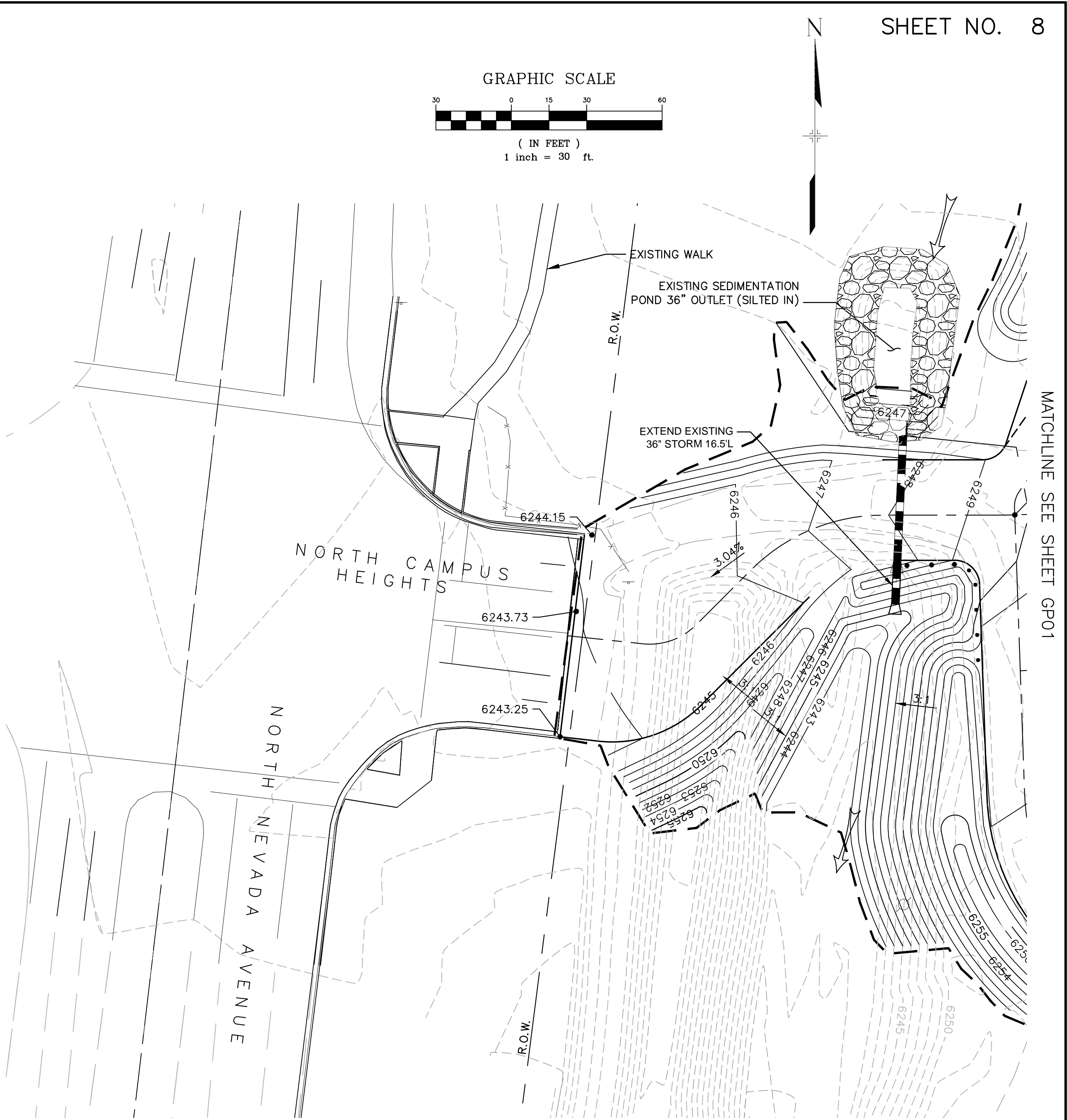
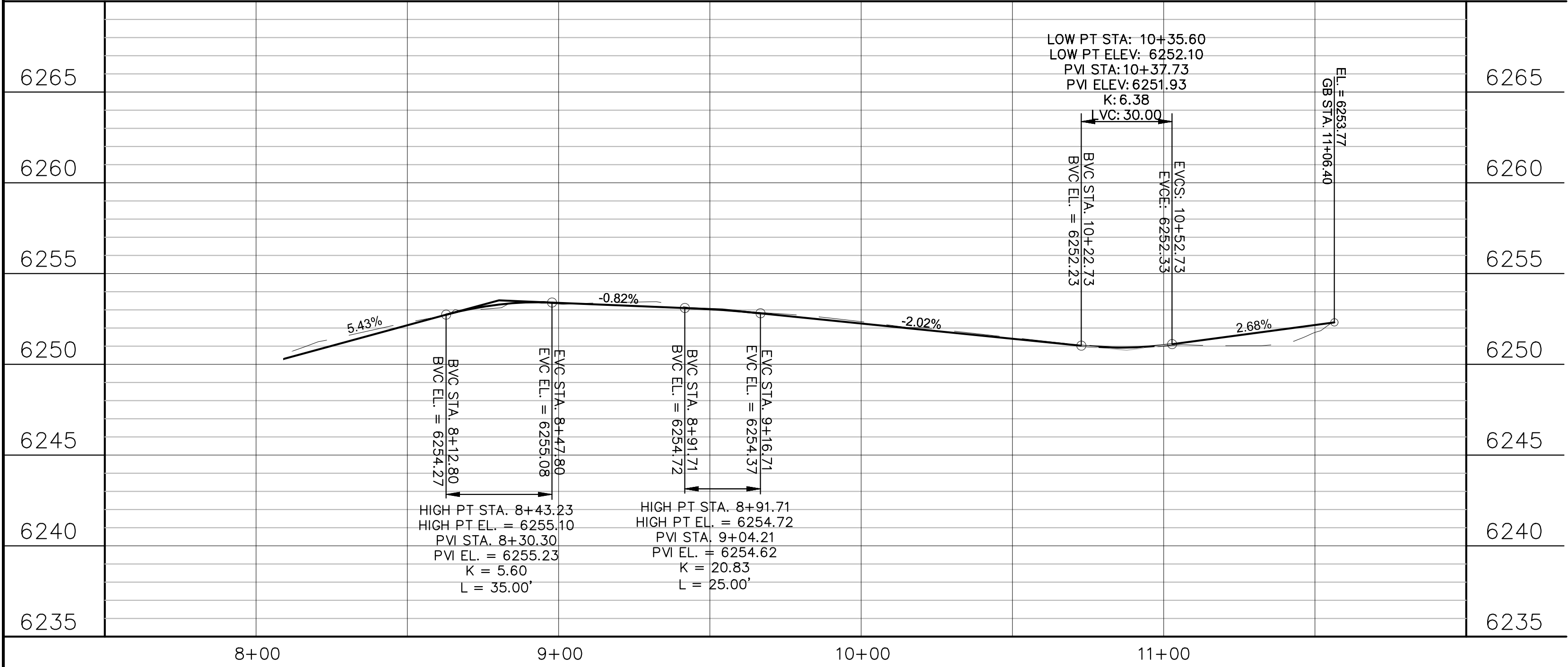
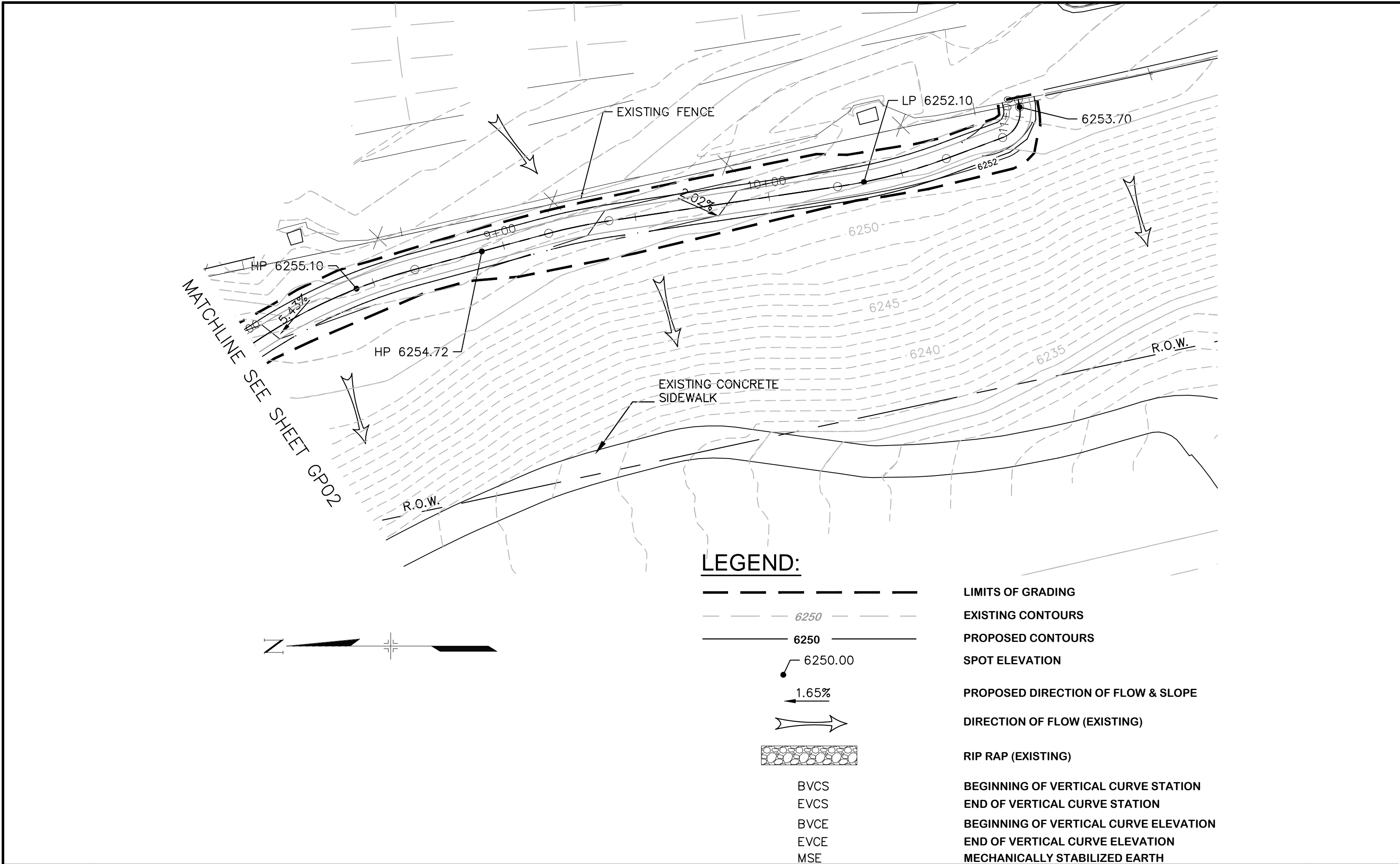
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT
SITE DEVELOPMENT PLANS
GRADING PLAN

| | | |
|------------------|-----------------|----------------------------|
| DESIGNED BY: REP | SCALE | DATE ISSUED: APRIL 9, 2012 |
| DRAWN BY: BAS | HORIZ: 1" = 30' | SHEET NO. 7 OF 16 |
| CHECKED BY: REP | VERT: N/A | |

GP02



| REVISIONS | | | | |
|-----------|------|----|-------------|--------------|
| NO. | DATE | BY | DESCRIPTION | APPROVED BY: |
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BENCHMARK:
A #5 REBAR SET AT TOP OF BANK 80 FEET WEST OF THE REAR ACCESS TO UCCS AT THE NORTHEAST CORNER OF THE PROJECT (392.492.31 NORTH 196.341.34 EAST). ELEVATION IS 6276.74, NAVD88 (GEOID 9). A CROSS REFERENCE OF 6247.56 WAS ALSO MADE TO THE FIMS VERTICAL CONTROL MONUMENT 'ABV2' BEING A 2 INCH DIAMETER ALUMINUM CAP STAMPED 'CSU FIMS CONTROL ABV2' ON THE SOUTH END OF THE HEADWALL ON THE EAST SIDE OF A DRAINAGE TUNNEL UNDER THE OLD RAILROAD. NOTE: THE VERTCON ADJUSTMENT OF NAVD 88 TO NGVD 29 (FIMS) IS 1.108 METERS.

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

Matrix
DESIGN GROUP

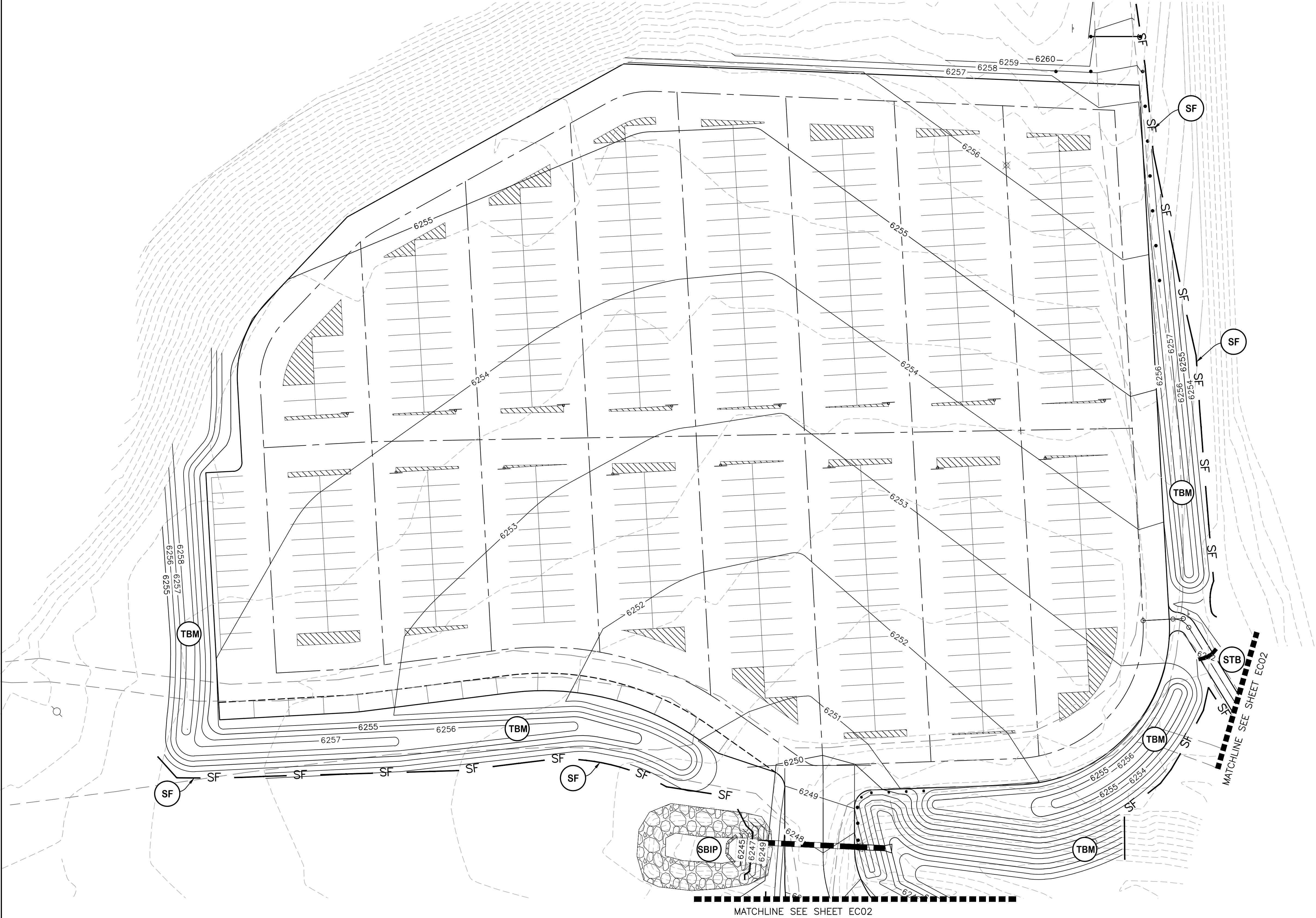
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engineers

UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

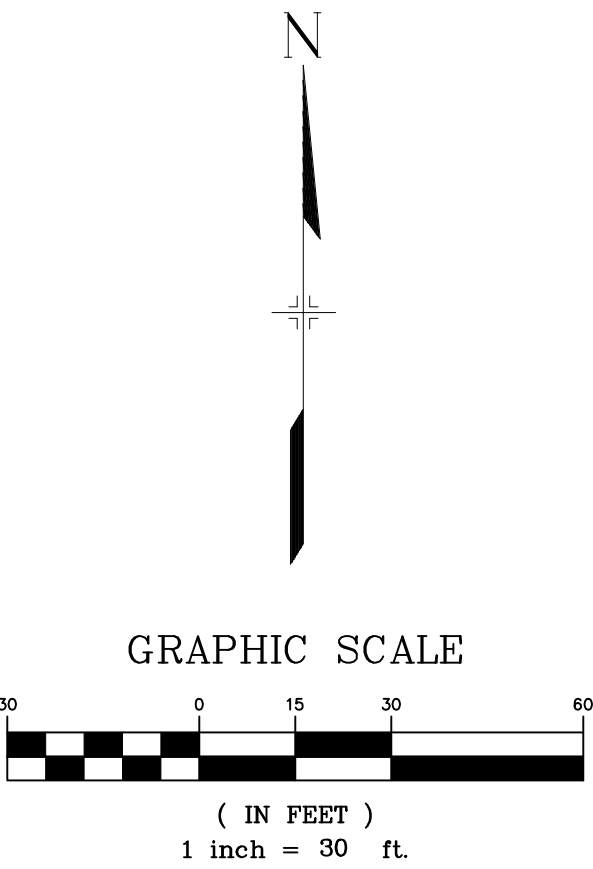
GRADING PLAN

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| DESIGNED BY: REP | SCALE | DATE ISSUED: APRIL 9, 2012 | GP03 |
| DRAWN BY: BAS | HORIZ: 1"=30' | SHEET NO. 8 OF 16 | |
| CHECKED BY: REP | VERT: N/A | | |

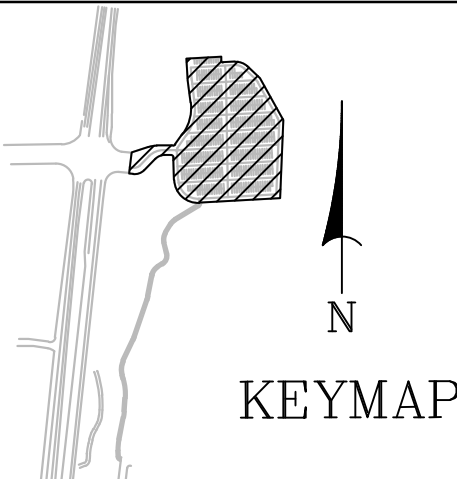


EROSION CONTROL LEGEND

- SF SILT FENCE
- VTC VEHICLE TRACKING PAD
- SBIP STRAW BALE INLET PROTECTION
- STB STRAW BALE BARRIER
- TBM TEMPORARY EROSION CONTROL BLANKET ON DISTURBED SLOPES



| | | | | | |
|--|--|------|-------------|--|------------------------|
| REFERENCE DRAWINGS X – BASE x – CSTitle(Grading) UCCS Topo X – EX – ROW X – Road – Nevada PP – Topo | | | | | |
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| | NO. | DATE | DESCRIPTION | | |
| | REVISIONS | | | | |
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| | NAME: S:\11.584.001 UCCS Arena Parking\Drawg\Grading\EC01-02.dwg | | | | BENCHMARK DATA(ELEV.) |
| | PCP: Matrix.ctb | | | | (DATUM) |
| | PLOT DATE: Fri Apr 06, 2012 2:12pm | | | | (DESCRIPTION/LOCATION) |
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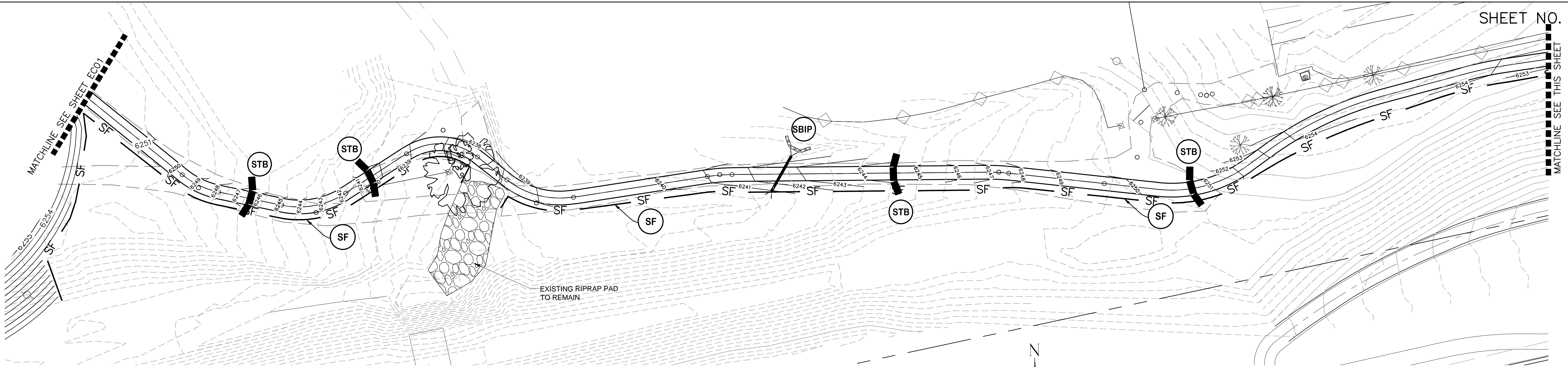


Matrix
DESIGN GROUP

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engineers

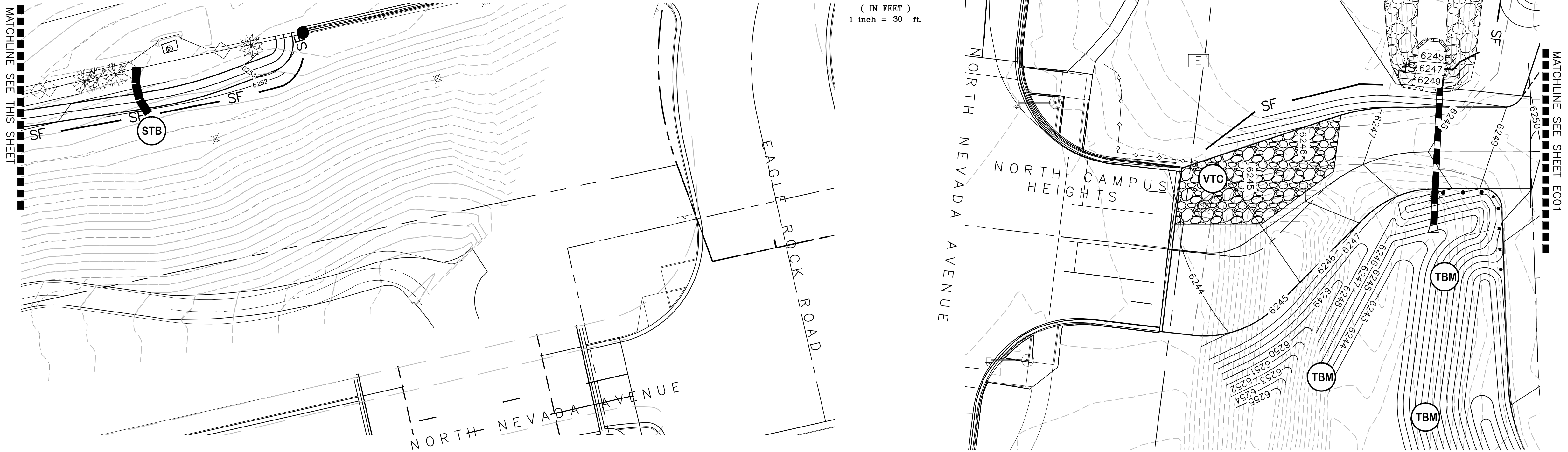
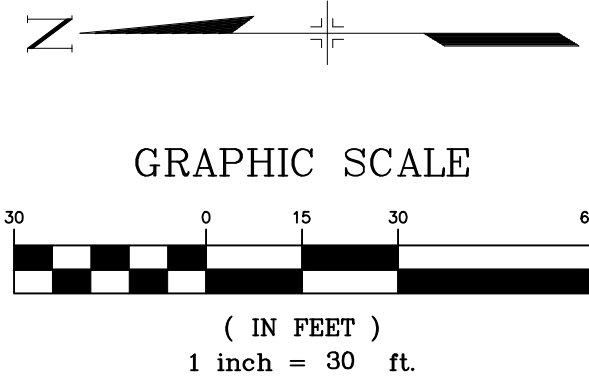
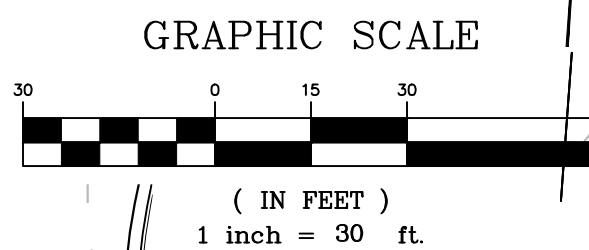
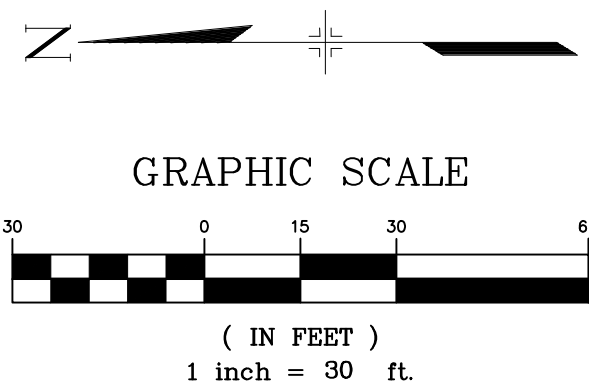
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

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|------------------------|------|---------------|--------------------------|------|
| UCCS ARENA PARKING LOT | | | | |
| SITE DEVELOPMENT PLANS | | | | |
| EROSION CONTROL PLAN | | | | |
| DESIGNED BY: | REP: | SCALE | DATE ISSUED: | EC01 |
| DRAWN BY: | BAS | HORIZ: 1"=30' | FEBRUARY 17, 2012 | |
| CHECKED BY: | REP: | VERT: N/A | SHEET NO. 9 OF 16 SHEETS | |

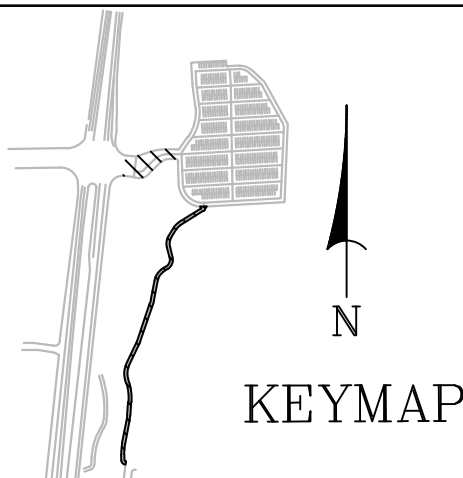


EROSION CONTROL LEGEND

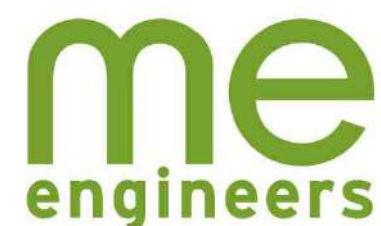
- SF SILT FENCE
- VTC VEHICLE TRACKING PAD
- SBIP STRAW BALE INLET PROTECTION
- STB STRAW BALE BARRIER
- TBM TEMPORARY EROSION CONTROL BLANKET ON DISTURBED SLOPES



| REFERENCE DRAWINGS | | | |
|---|------|------------------------|----|
| X-BASE | | | |
| X-CStitle(Grading) | | | |
| UCCS Topo | | | |
| X-EX-ROW | | | |
| X-Road-Nevada | | | |
| PP-Topo | | | |
| NO. | DATE | DESCRIPTION | BY |
| REVISIONS | | | |
| | | BENCHMARK DATA(ELEV.) | |
| | | (DATUM) | |
| | | (DESCRIPTION/LOCATION) | |
| NAME: S:\11-584.001 UCCS Arena Parking\Drawings\Grading\EC01-02.dwg | | | |
| PCP: Matrix.ctb | | | |
| PLOT DATE: Fri Apr 06, 2012 2:13pm | | | |



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

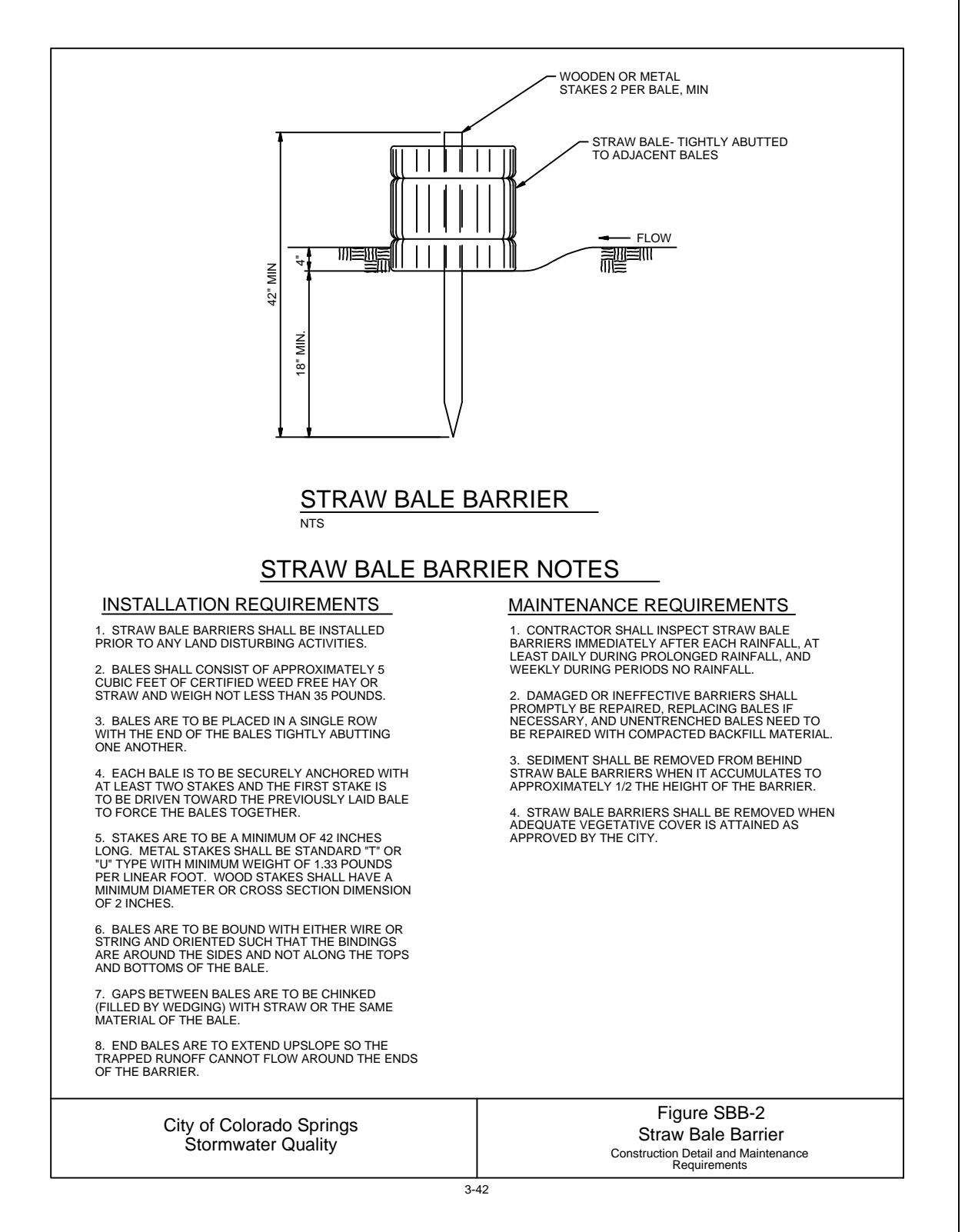
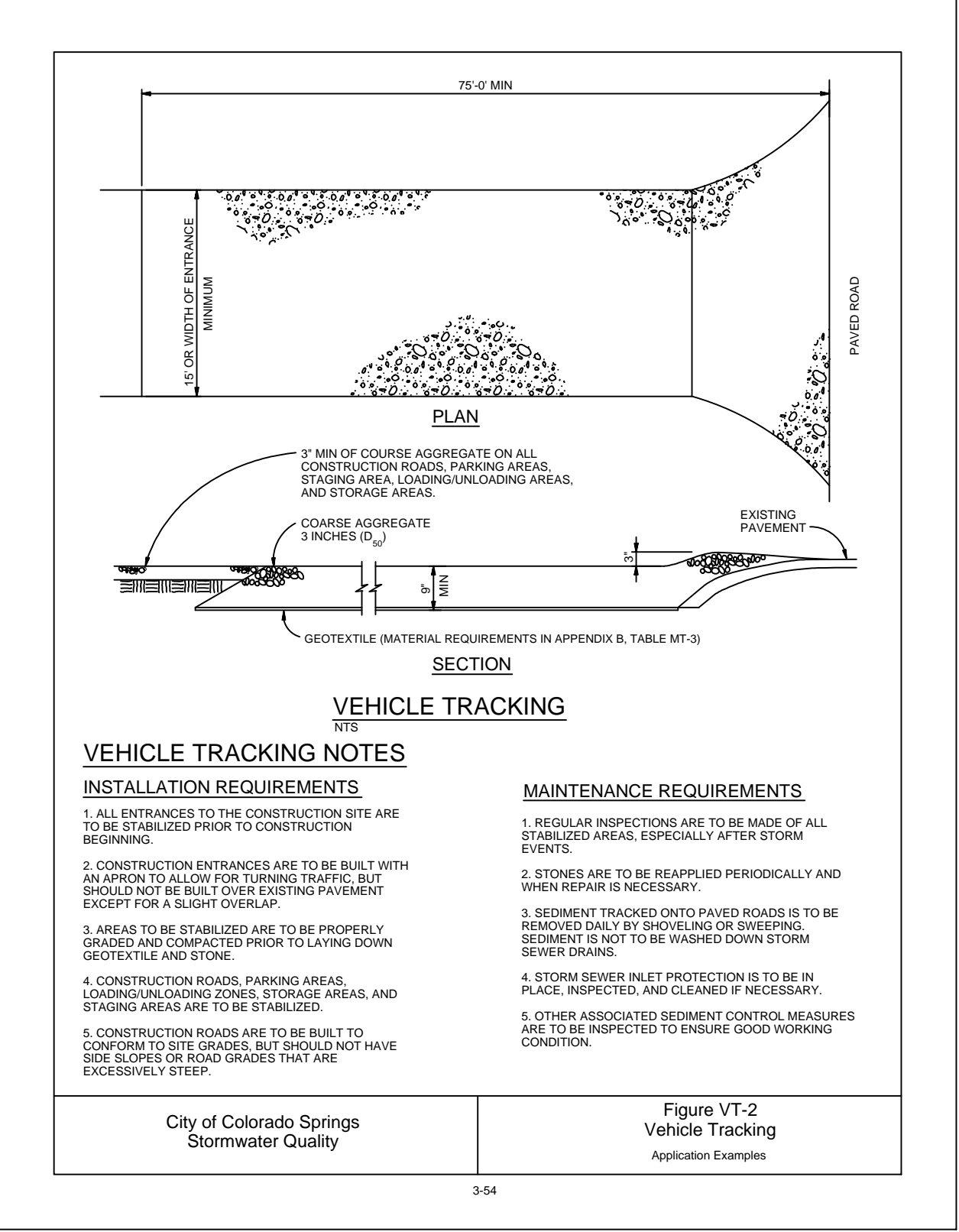
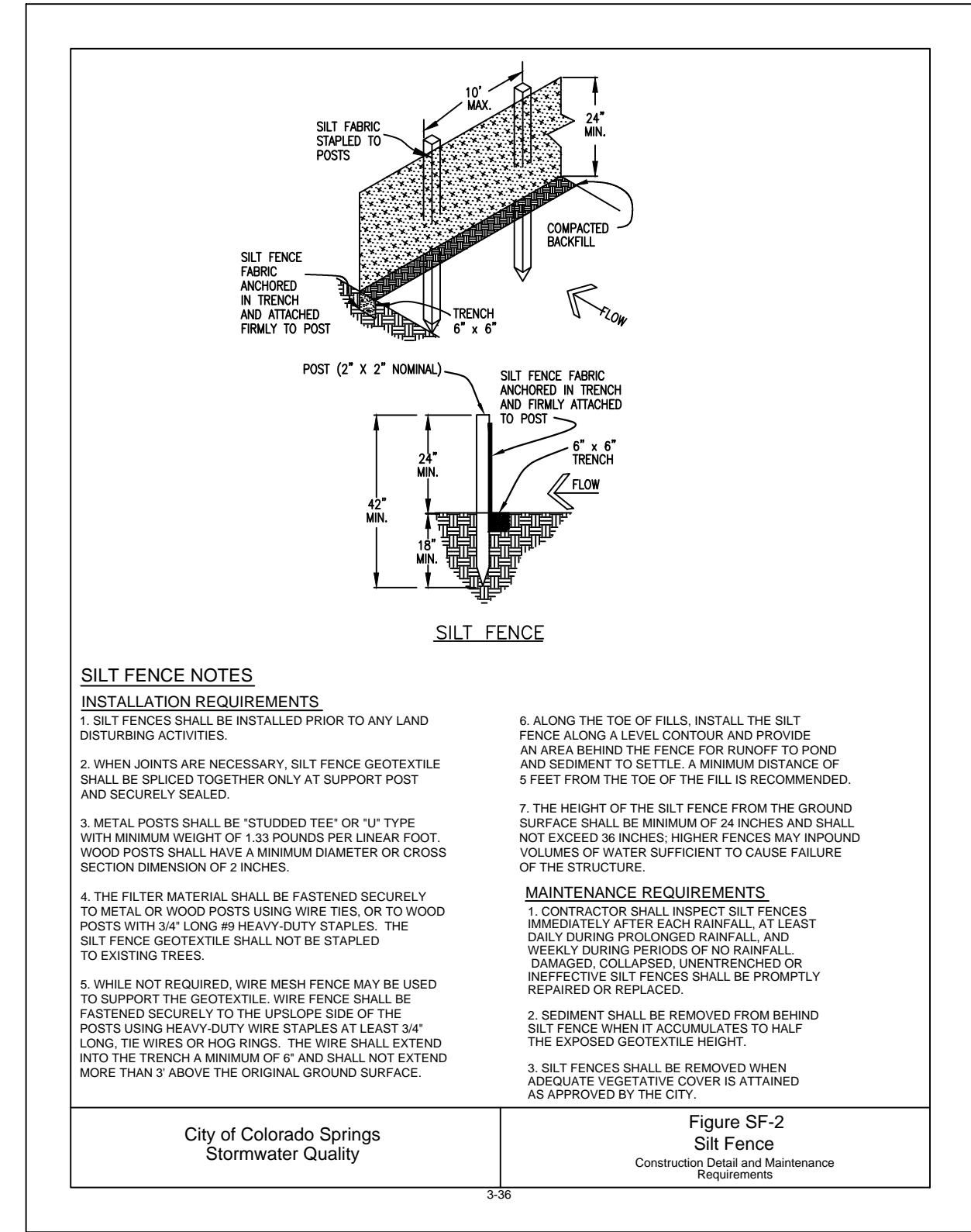
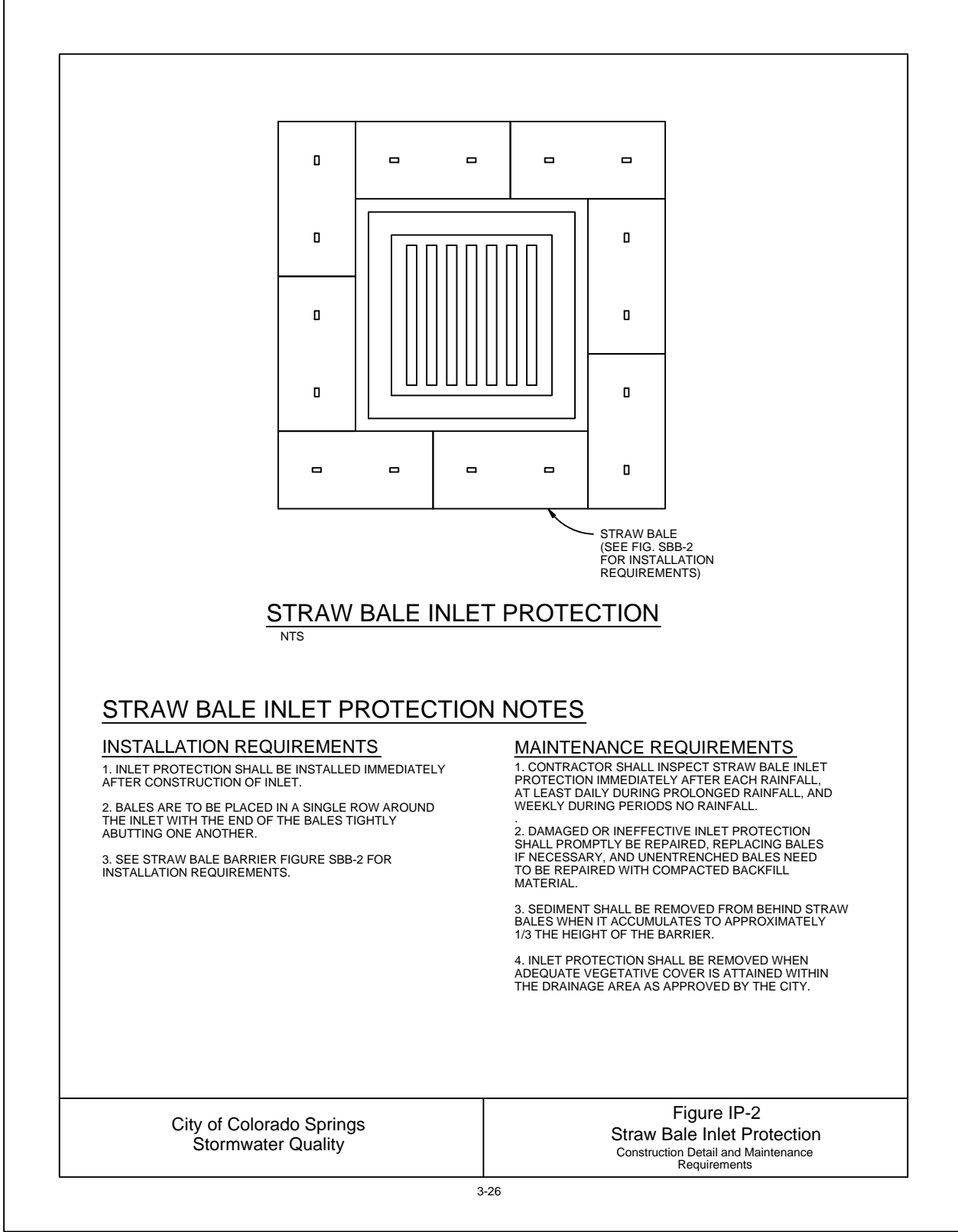
EROSION CONTROL PLAN

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| DESIGNED BY: REP | SCALE | DATE ISSUED: FEBRUARY 17, 2012 |
| DRAWN BY: BAS | HORIZ: 1"=30' | |
| CHECKED BY: REP | VERT: N/A | SHEET NO. 10 OF 16 SHEETS |

EC02

NPDES NOTES

1. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS OF WAYS AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER, OR AS DIRECTED BY THE ENGINEER.
2. THIS CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN HAS BEEN SUBMITTED AS PART OF AN APPLICATION FOR AN EROSION AND SEDIMENT CONTROL PERMIT FILED WITH THE CITY OF COLORADO SPRINGS. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE CONTRACTOR DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS SUCCESSORS OR HEIRS; UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.
3. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
4. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT.
5. A LAYER OF SUITABLE MULCH SHALL BE APPLIED TO ALL DISTURBED PORTIONS OF THE SITE WITHIN 7 DAYS OF THE COMPLETION OF GRADING. SAID MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE AND SHALL BE TACKED OR FASTENED BY AN APPROVED METHOD SUITABLE FOR THE TYPE OF MULCH USED. ROUGH-CUT STREETS SHALL BE MULCHED UNLESS A LAYER OF AGGREGATE ROAD BASE OR ASPHALT PAVING IS TO BE APPLIED TO SAID ROUGH-CUT STREETS WITHIN THE 21 DAY PERIOD AFTER COMPLETION OF OVERLOT GRADING.
6. THE CONTRACTOR SHALL LOCATE, INSTALL, AND MAINTAIN ALL EROSION CONTROL AND WATER QUALITY "BEST MANAGEMENT PRACTICES" AS INDICATED IN THE APPROVED CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN. BMP'S SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT.
7. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL BMP'S WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP WHEN THE SEDIMENT LEVEL REACHES ONE-HALF THE HEIGHT OF THE BMP, OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP.
8. THE CONTRACTOR SHALL PROPERLY COVER ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT WITHIN PUBLIC RIGHTS OF WAY.
9. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES; OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE; IS PROHIBITED. THE USE OF OSHA APPROVED COLORED WARNING CAPS ON REBAR OR FENCE POSTS USED WITH EROSION CONTROL MEASURES IS NOT ACCEPTABLE.
10. SOILS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE MULCHED AND SEEDED WITH A TEMPORARY OR PERMANENT GRASS COVER WITHIN 14 DAYS OF STOCKPILE CONSTRUCTION. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF A DRAINAGEWAY, ADDITIONAL SEDIMENT CONTROLS SUCH AS TEMPORARY DIKES OR SILT FENCE SHALL BE REQUIRED.
11. MODIFICATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT BY THE CONTRACTOR SHALL REQUIRE TIMELY NOTIFICATION OF AND APPROVAL BY THE CITY OF COLORADO SPRINGS. TERMINATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT UPON COMPLETION OF THE PROJECT REQUIRES NOTIFICATION OF AND APPROVAL BY THE CITY OF COLORADO SPRINGS.
12. "UNLESS CONFINED IN A PREDEFINED, BERMED CONTAINMENT AREA, THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
13. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE.
14. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS.
15. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED.



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BENCHMARK:
A #5 REBAR SET AT TOP OF BANK 80 FEET WEST OF THE REAR ACCESS TO UCOS AT THE NORTHEAST CORNER OF THE PROJECT (392,492.31 NORTH 196,341.34 EAST). ELEVATION IS 6276.74, NAVD88 (GEOID 9). A CROSS REFERENCE OF 6247.56 WAS ALSO MADE TO THE FIMS VERTICAL CONTROL MONUMENT "ABV2" BEING A 2 INCH DIAMETER ALUMINUM CAP STAMPED "CSU FIMS CONTROL ABV2" ON THE SOUTH END OF THE HEADWALL ON THE EAST SIDE OF A DRAINAGE TUNNEL UNDER THE OLD RAILROAD. NOTE: THE VERTCON ADJUSTMENT OF NAVD 88 TO NGVD 29 (FIMS) IS 1.108 METERS.

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT

SITE DEVELOPMENT PLANS

EROSION CONTROL DETAILS AND NOTES

| | | | |
|-----------------|------------|--------------|---------------|
| DESIGNED BY: | SCALE | DATE ISSUED: | APRIL 9, 2012 |
| DRAWN BY: BAS | HORIZ: N/A | SHEET NO. | 11 OF 16 |
| CHECKED BY: REF | VERT: N/A | | |




ECDT1

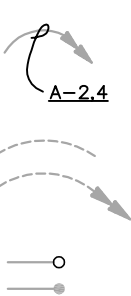
| ABBREVIATIONS | |
|---------------|-------------------------------------|
| A,AMP | AMPERE |
| AC | ABOVE COUNTER |
| AF | AMPERE FUSE/FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AL | ALUMINUM |
| AM | AMMETER |
| ANN | ANNUNCIATOR |
| ANT | ANTENNA |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AUTO | AUTOMATIC |
| AUX | AUXILIARY |
| AWG | AMERICAN WIRE GAUGE |
| BCST | BROADCAST |
| BFC | BELOW FINISHED CEILING |
| BFG | BELOW FINISHED GRADE |
| BKR | BREAKER |
| C | CONDUIT |
| CAB | CABINET |
| CAM | CAMERA |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CKT | CIRCUIT |
| CO | CONDUIT ONLY |
| COMB | COMBINATION |
| COMP | COMPUTER |
| COND | CONDUCTOR |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| dB | DECIBEL |
| DEMARC | DEMARICATION |
| DISC | DISCONNECT |
| DL | DAMP LABEL |
| DWG | DRAWING |
| DVR | DIGITAL VIDEO RECORDER |
| EA | EACH |
| EC | ELECTRICAL CONTRACTOR |
| EF | EXHAUST FAN |
| EG | EQUIPMENT GROUND |
| EHC | ELECTRIC HEATING COIL |
| ELEC | ELECTRIC OR ELECTRICAL |
| ELEV | ELEVATOR |
| EMERG | EMERGENCY |
| EMT | ELECTRIC METALLIC TUBING |
| ENG | ELECTRONIC NEWS GATHERING |
| EOL | F/A END OF LINE RESISTOR |
| EQUIP | EQUIPMENT |
| ER | EXISTING TO BE REMOVED/RELOCATED |
| EWG | ELECTRIC WATER COOLER |
| EWI | ELECTRIC WATER HEATER |
| EXH | EXHAUST |
| EX | EXISTING |
| F | FUSE |
| F/A | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| FBO | FURNISHED BY OTHERS |
| FC | FOOTCANDLES |
| FDR | FEEDER |
| FLEX | FLEXIBLE |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| GALV | GALVANIZED |
| GEN | GENERATOR |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND |
| HC | HORIZONTAL CROSS CONNECT |
| HD | HEAVY DUTY |
| HH | HAND HOLE |
| HOA | HAND-OFF-AUTO |
| HP | HORSEPOWER |
| HPF | HIGH POWER FACTOR |
| HPS | HIGH PRESSURE SODIUM |
| HTR | HEATER |
| IC | INTERMEDIATE CROSS CONNECT |
| ID | INSIDE DIAMETER |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IMC | INTERMEDIATE GRADE METALLIC CONDUIT |
| INCAND | INCANDESCENT |
| J-BOX | JUNCTION BOX |
| KCMIL | THOUSAND OF CIRCULAR MILLS |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| LA | LIGHTNING ARRESTOR |
| LAN | LOCAL AREA NETWORK |
| LFC | LIQUID TIGHT FLEXIBLE CONDUIT |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| MA | MILLIAMPERE |
| MAX | MAXIMUM |
| MB | MAIN BREAKERS |
| MC | MECHANICAL CONTRACTOR |

| ABBREVIATIONS | |
|---------------|--------------------------------------|
| MC | MAIN CROSS CONNECT |
| MCC | MOTOR CONTROL CENTER |
| MCP | MOTOR CIRCUIT PROTECTOR |
| MDF | MAIN DISTRIBUTION FRAME |
| MDP | MAIN DISTRIBUTION PANEL |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MG | MOTOR GENERATOR |
| MH | MANHOLE OR METAL HALIDE |
| MIN | MINIMUM |
| MLO | MAIN LUGS ONLY |
| MOV | MOTOR OPERATED VALVE |
| MPCE | MAIN POINT OF ENTRY |
| MTG | MOUNTING HEIGHT |
| MS | MOTOR STARTER |
| MSB | MAIN SWITCHBOARD |
| MTB | MAIN TERMINAL BOARD |
| MTD | MOUNTED |
| MTG | MOUNTING |
| MTGB | MAIN TELECOMMUNICATIONS GROUND BUS |
| MV | MEDIUM VOLTAGE |
| N | NEUTRAL |
| NEC | NATIONAL ELECTRICAL CODE |
| NF | NON FUSED |
| NIC | NOT IN CONTRACT |
| NC | NORMALLY CLOSED |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| P | POLE |
| PA | PUBLIC ADDRESS |
| PB | PUSH BUTTON |
| PBX | PRIVATE BRANCH EXCHANGE |
| PE | PHOTOELECTRIC |
| PF | POWER FACTOR |
| PH | PHASE |
| PNL | PANEL |
| PR | PAIR |
| PRI | PRIMARY |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE |
| PWR | POWER |
| QR | QUARTZ RESTRIKE |
| R | REMOVE |
| REC | RECEPTACLE |
| RGS | RIGID GALVANIZED STEEL |
| RM | ROOM |
| RFM | REVOLUTIONS PER MINUTE |
| SCP | SECURITY CONTROL PANEL |
| SEC | SECONDARY/SECOND |
| SECT | SECTION |
| SHT | SHEET |
| SMPCE | SECONDARY MAIN POINT OF ENTRY |
| SP | SERVICE PROVIDER |
| SPD | SURGE PROTECTIVE DEVICE |
| SPDT | SINGLE POLE, DOUBLE THROW |
| ST | SHUNT TRIP |
| STD | STANDARD |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| T | TWIST LOCK |
| TBB | TELECOMMUNICATIONS BONDING BACKBONE |
| TC | TIME CLOCK |
| TTC | TELEPHONE TERMINAL CABINET OR CLOSET |
| TTB | TELEPHONE TERMINAL BOARD |
| TEL | TELEPHONE |
| TELCO | TELEPHONE COMPANY |
| TELCOM | TELECOMMUNICATIONS |
| TEMP | TEMPERATURE |
| TGB | TELECOMMUNICATIONS GROUND BUS |
| TR | TAMPER RESISTANT |
| UC | UNDER COUNTER |
| U/G | UNDER GROUND |
| UH | UNIT HEATER |
| UL | UNDERWRITER LABORATORIES |
| UNO | UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| UTP | UNSHIELDED TWISTED PAIR |
| V | VOLT |
| VFD | VARIABLE FREQUENCY DRIVE |
| VM | VOLTMETER |
| W | WATT |
| W/ | WITH |
| WH | WATT HOUR |
| WHM | WATT HOUR METER |
| WLAN | WIRELESS-LOCAL AREA NETWORK |
| WP | WEATHERPROOF |
| WPL | WEATHER PROOF LOCKABLE ENCLOSURE |
| WT | WATERTIGHT |
| XFMR | TRANSFORMER |
| XP | EXPLOSION PROOF |

NOTES:

- ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGeways OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
- THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.
- ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES.
- ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.
- DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
- COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO:
 - EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).
 - COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
 - THIS CONTRACTOR SHALL ASSIST THE DIVISION 15 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).
 - THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 15 DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
- DEFINITIONS:
 - "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
 - "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
 - "PROVIDE" MEANS TO "FURNISH AND INSTALL".
 - "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.
 - "RE-_____ DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.
- "FIRESTOPPING" REQUIREMENT. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE BUILDING CODE.
- WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT.
- CONTRACTOR PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.

| POWER DEVICES | |
|---|--------------------------------------|
|  | DUPLEX RECEPTACLE W/ WP IN-USE COVER |
|  | BRANCH CIRCUIT OR POWER PANEL |
|  | POLE MOUNTED LUMINAIRE WITH ARM |

| RACEWAY LEGEND | |
|---|---|
|  | BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. DB UG - DIRECT BURY UNDERGROUND UNDERGROUND BRANCH CIRCUIT HOMERUN CONDUIT UP CONDUIT DOWN CONDUIT RUNS UNDERFLOOR OR BELOW GRADE |

| UCCS-Parking Lot | | | M-E Engineers Inc. | | | PANEL: PL1 | | | | | | | | |
|---|----|----------------|------------------------|---|---|-----------------|-------------|-----|----------|---|------------|----------------------|----------------------|---|
| 240/120 | | | BUS: 150 Amps Copper | | | SECTION: 1 OF 1 | | | | | | | | |
| 1Phase,3Wire + Gnd | | | WAVE: 150 Amp Main Bar | | | LOCATION: | | | | | | | | |
| 22K AIC | | | | | | DATE: 04/09/12 | | | | | | | | |
| NOTES: | | | OPTIONS: | | | FED FROM: | | | | | | | | |
| | | | Feed-Thru Lugs | | | MOUNTING: | | | | | | | | |
| | | | | | | Psd on Floor | | | | | | | | |
| N | ID | DESCRIPTION | Y-A | P | BKR | CKT | PH | CKT | BKR | P | Y-A | DESCRIPTION | ID | N |
| L | | TRAIL LIGHTING | 930 | 2 | 20 | 1 | A | 2 | 20 | 2 | 1085 | PARKING LOT LIGHTING | L | |
| L | | ---- | 930 | < | | 3 | B | 4 | | > | 1085 | ---- | L | |
| L | | TRAIL LIGHTING | 945 | 2 | 20 | 5 | A | 6 | 20 | 2 | 1040 | PARKING LOT LIGHTING | L | |
| L | | ---- | 945 | < | | 7 | B | 8 | | > | 1040 | ---- | L | |
| P | | -SPARE- | | 1 | 20 | 9 | A | 10 | 20 | 2 | 1085 | PARKING LOT LIGHTING | L | |
| P | | -SPARE- | | 1 | 20 | 11 | B | 12 | | > | 1085 | ---- | L | |
| P | | -SPARE- | | 1 | 20 | 13 | A | 14 | 20 | 2 | 1040 | PARKING LOT LIGHTING | L | |
| P | | -SPARE- | | 1 | 20 | 15 | B | 16 | | > | 1040 | ---- | L | |
| P | | -SPARE- | | 1 | 20 | 17 | A | 18 | 20 | 1 | 800 | CODE BLUE LIGHT | X | |
| P | | -SPARE- | | 1 | 20 | 19 | B | 20 | 20 | 1 | 800 | CODE BLUE LIGHT | X | |
| P | | -SPARE- | | 1 | 20 | 21 | A | 22 | 20 | 1 | 800 | CODE BLUE LIGHT | X | |
| P | | -SPARE- | | 1 | 20 | 23 | B | 24 | 20 | 1 | 180 | RECP'T PANEL PL1 | R | |
| TOTALS | | | | | | | | | | | | | | |
| CONNECTED (Downstream Loads Included) | | | TOTALS | | LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED | | | | | | | | | |
| PHASE | | | A-B | | DISCONNECT | | DOWNSTREAM | | ELECTRIC | | CALCULATED | | AMPS @ 240/120 VOLTS | |
| A | | | 7225-15000 | | 14,130 | | LIGHTING | | 12,450 | | 125% | | 15,563 | |
| AMPS | | | 30 - 25 | | 39 | | RECEPT | | 180 | | 100% | | 180 | |
| DOWNSTREAM LOADS | | | | | | | RECEPT | | | | 35% | | | |
| | | | | | | | MOTOR | | | | 100% | | | |
| | | | | | | | LARGE MOTOR | | | | 25% | | | |
| | | | | | | | MISC | | 7,500 | | 100% | | 1,500 | |
| | | | | | | | KITCHEN | | | | 100% | | | |
| CONDUCTOR COLORS (EC TO LABEL IN PANEL) | | | | | | | BLACK/NEAT | | | | 100% | | | |
| PH | | | | | | | NEAT | | | | | | | |
| A BLACK | | | | | | | | | | | | | | |
| B RED | | | | | | | | | | | | | | |
| N WHITE | | | | | | | | | | | | | | |
| G GREEN | | | | | | | | | | | | | | |
| | | | | | | | TOTAL | | 14,130 | | 17,543 | | 72 | |

PANEL SCHEDULE

PL1
SCALE: NONE

| REVISIONS | | | | |
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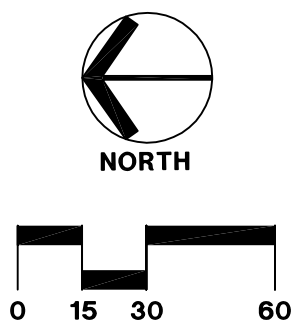


FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

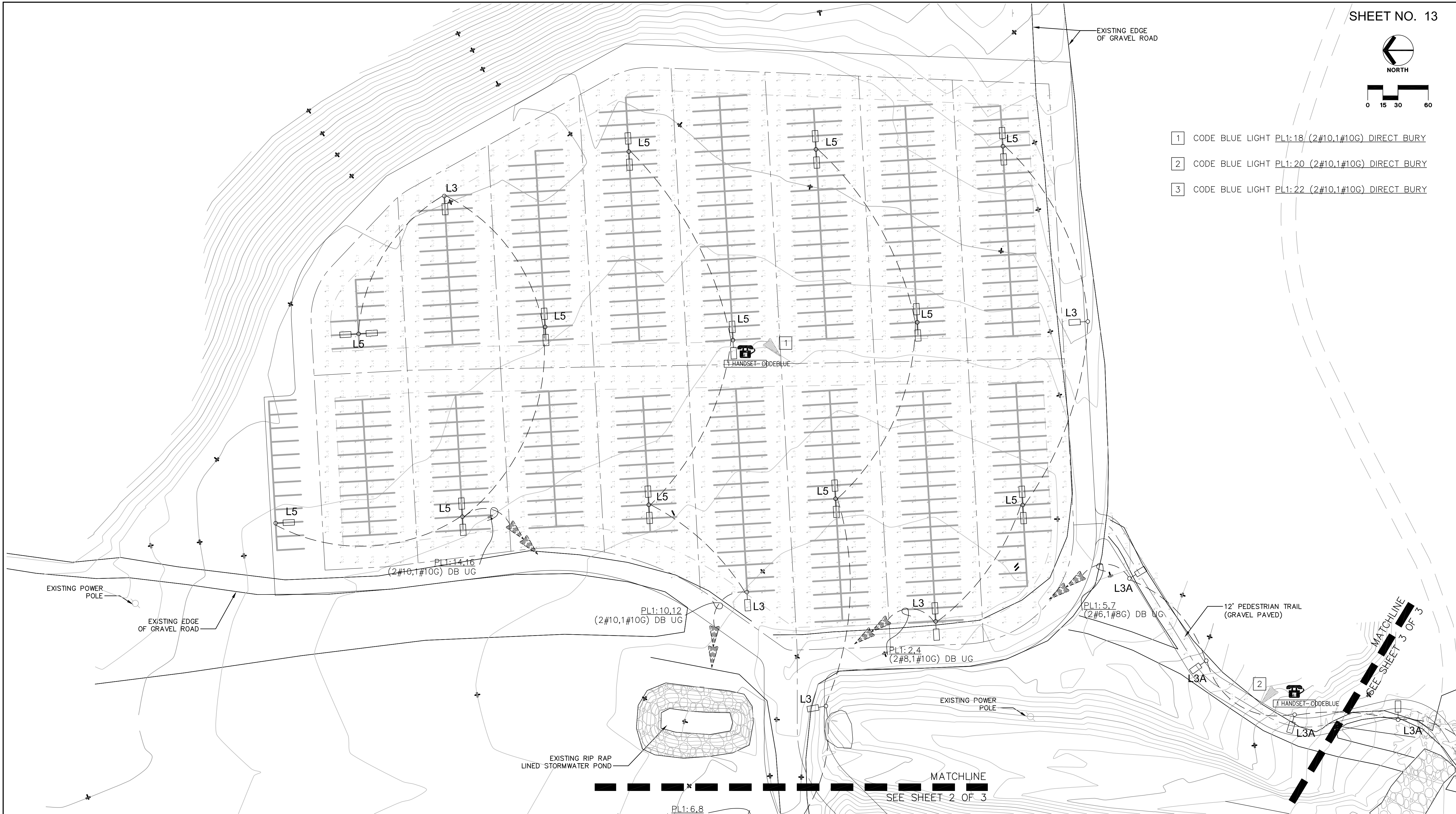
UCCS ARENA PARKING LOT

LIGHTING LEGEND/NOTES

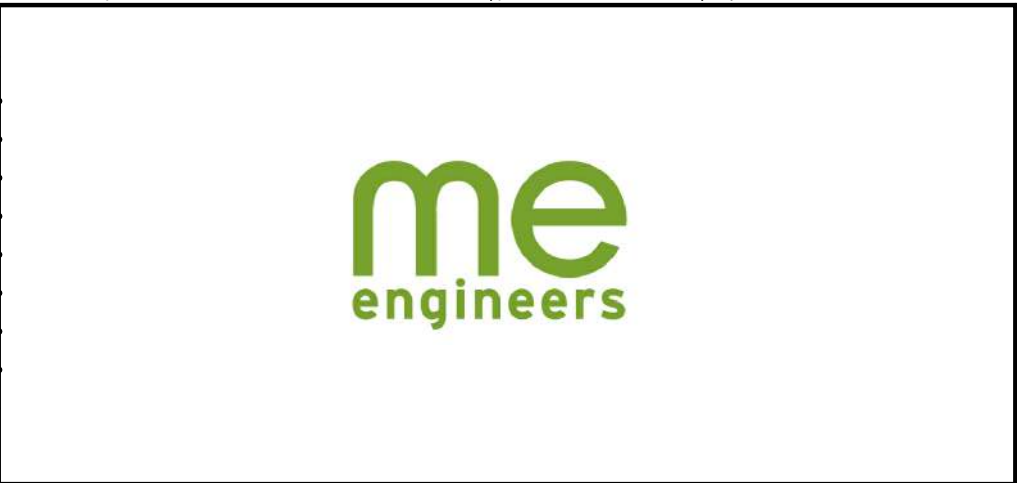
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|------------------|------------|-----------------------------|-----|
| DESIGNED BY: APS | SCALE | DATE ISSUED: APRIL 09, 2012 | L00 |
| DRAWN BY: APS | HORIZ: N/A | SHEET NO. 12 OF 16 | |
| CHECKED BY: | VERT: N/A | | |



- 1 CODE BLUE LIGHT PL1:18 (2#10,1#10G) DIRECT BURY
- 2 CODE BLUE LIGHT PL1:20 (2#10,1#10G) DIRECT BURY
- 3 CODE BLUE LIGHT PL1:22 (2#10,1#10G) DIRECT BURY



| REVISIONS | | | | | |
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT

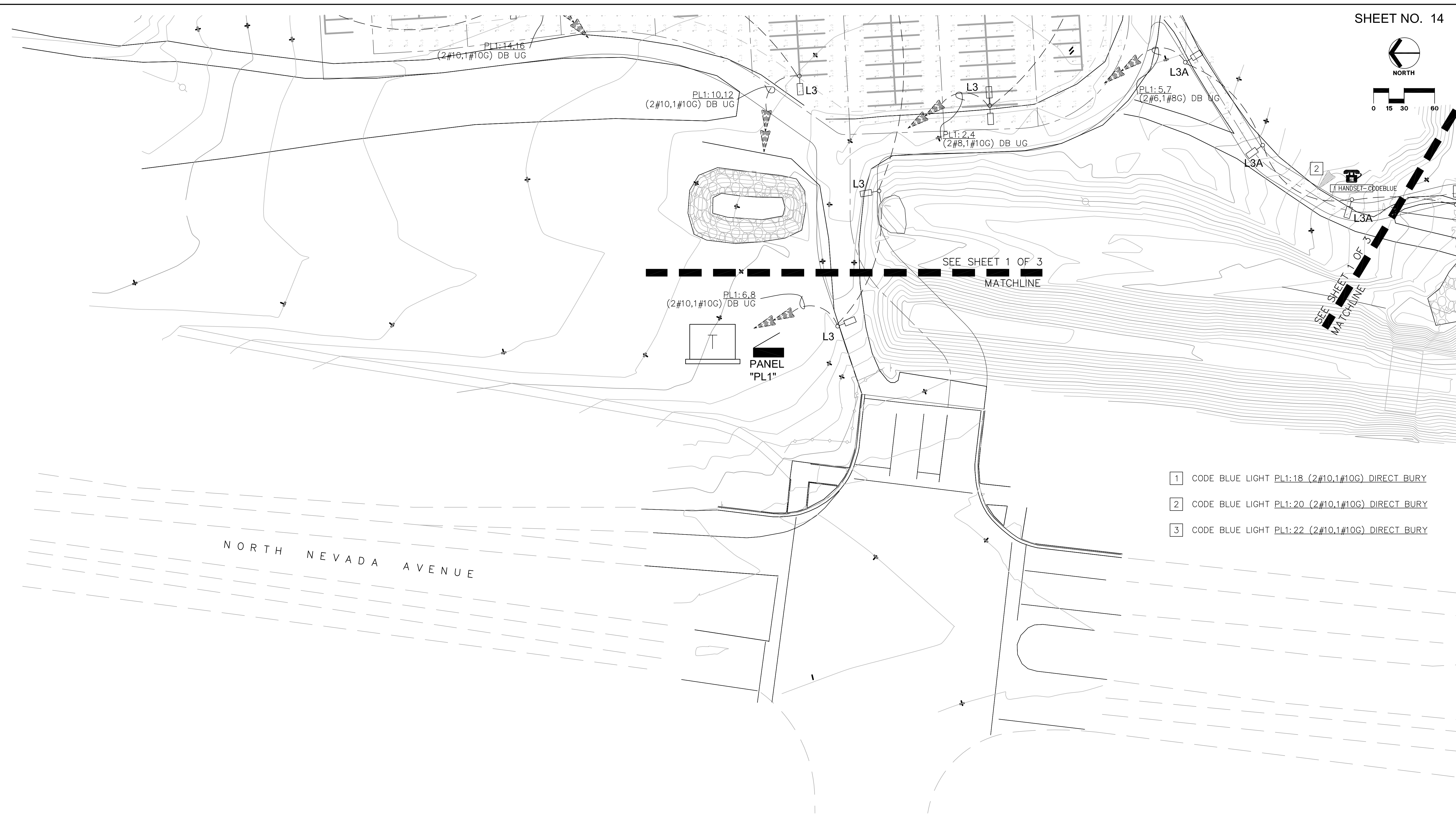
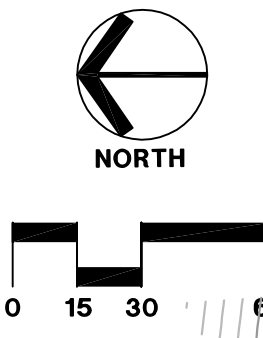
LIGHTING LAYOUT – PARKING LOT

DESIGNED BY: APS
DRAWN BY: APS
CHECKED BY:

SCALE
HORIZ: 1" = 30'
VERT: N/A

DATE ISSUED: **APRIL 06, 2012**
SHEET NO. 13 OF 16

L01



- 1 CODE BLUE LIGHT PL1:18 (2#10,1#10G) DIRECT BURY
- 2 CODE BLUE LIGHT PL1:20 (2#10,1#10G) DIRECT BURY
- 3 CODE BLUE LIGHT PL1:22 (2#10,1#10G) DIRECT BURY

| REVISIONS | | | | | |
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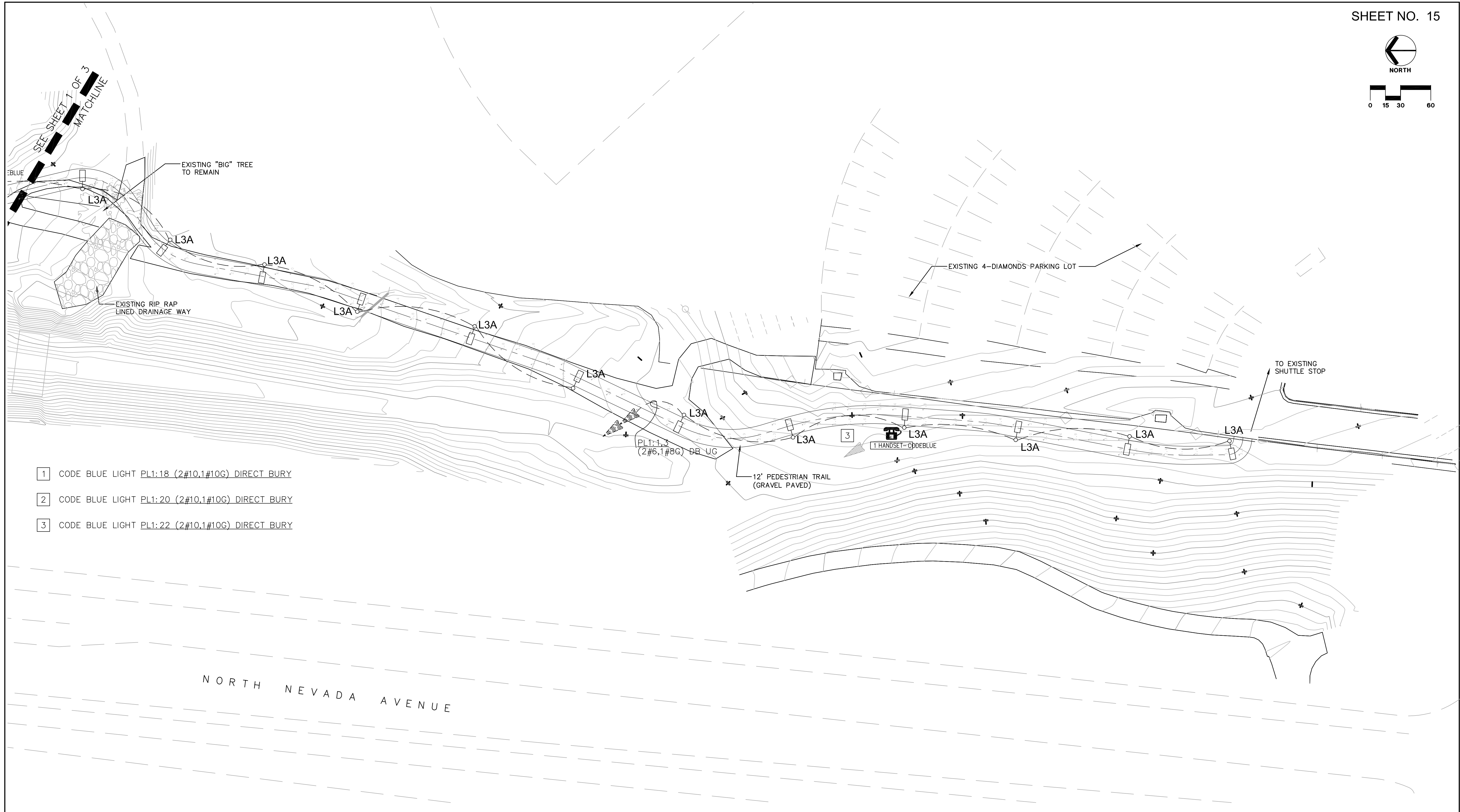
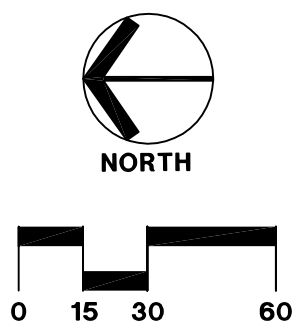
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT

LIGHTING LAYOUT – ENTRANCE

| | | | |
|------------------|-----------------|-----------------------------|-----|
| DESIGNED BY: APS | SCALE | DATE ISSUED: APRIL 06, 2012 | L02 |
| DRAWN BY: APS | HORIZ: 1" = 30' | SHEET NO. 14 OF 16 | |
| CHECKED BY: | VERT: N/A | | |



- 1 CODE BLUE LIGHT PL1:18 (2#10.1#10G) DIRECT BURY
- 2 CODE BLUE LIGHT PL1:20 (2#10.1#10G) DIRECT BURY
- 3 CODE BLUE LIGHT PL1:22 (2#10.1#10G) DIRECT BURY

| REVISIONS | | | | | |
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

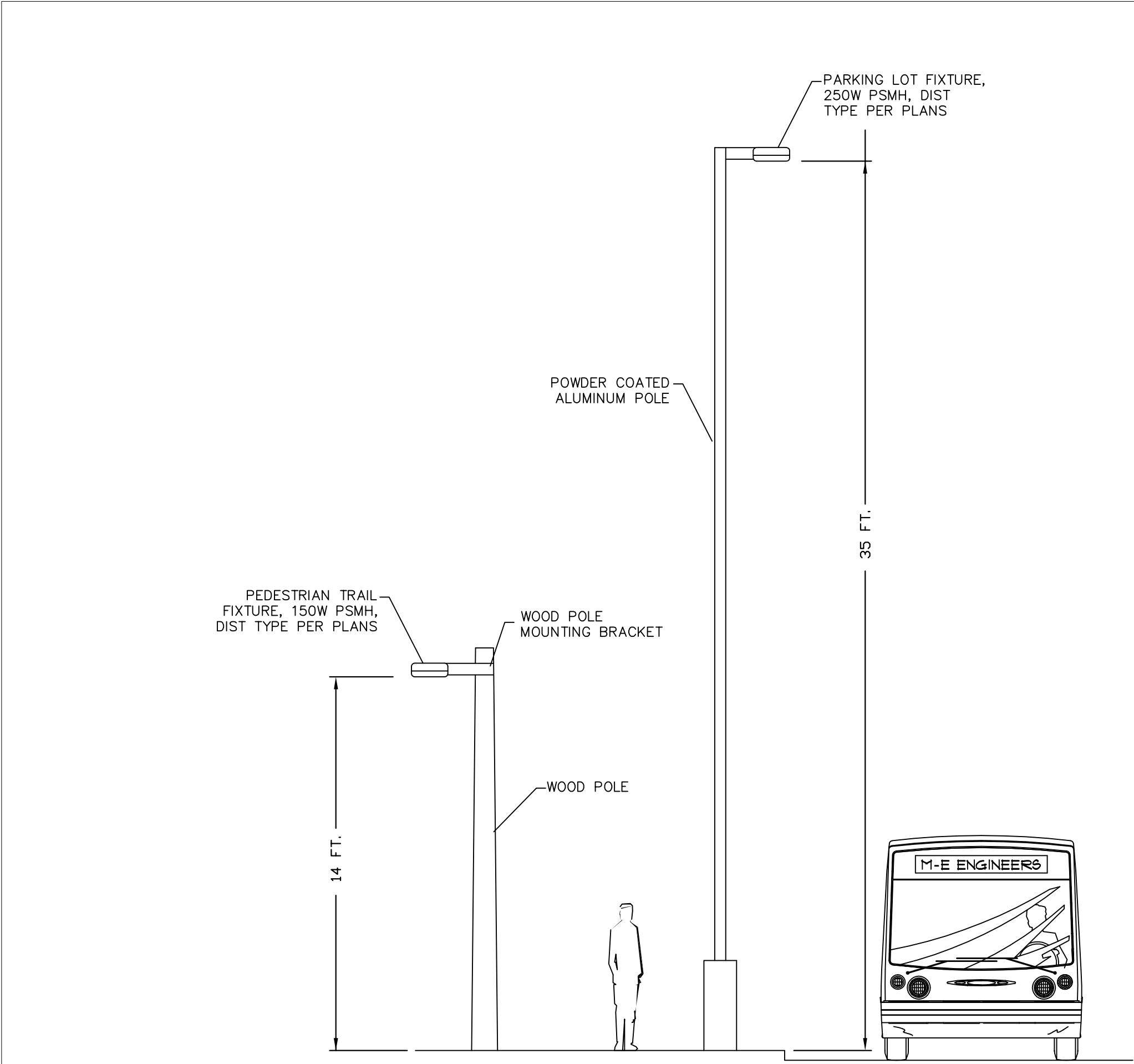


UCCS ARENA PARKING LOT

LIGHTING LAYOUT – PEDESTRIAN TRAIL

| | | |
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| DESIGNED BY: APS | SCALE | DATE ISSUED: APRIL 06, 2012 |
| DRAWN BY: APS | HORIZ: 1" = 30' | SHEET NO. 15 OF 16 |
| CHECKED BY: | VERT: N/A | |

L03

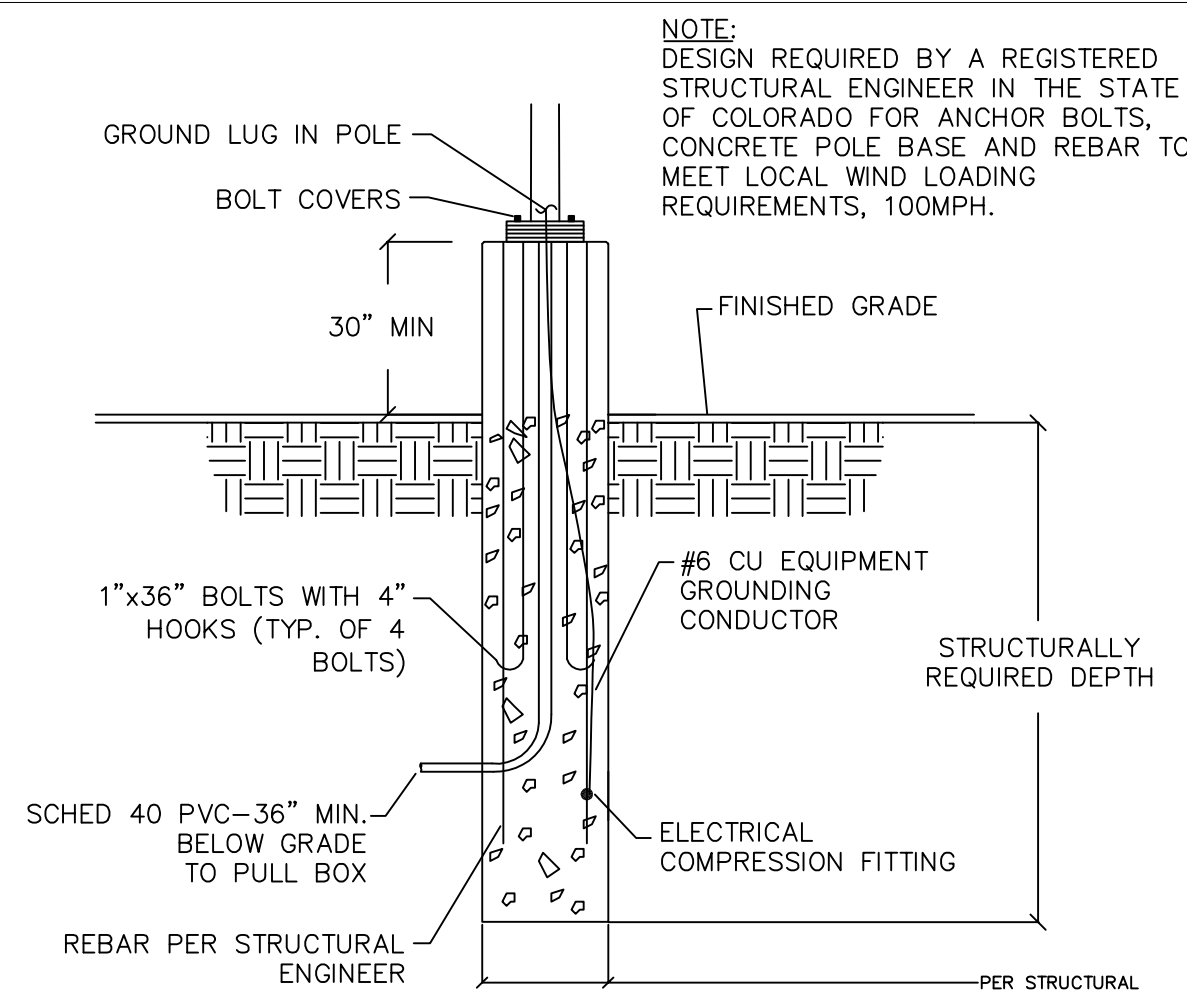


F PEDESTRIAN TRAIL LIGHT DETAIL
NO SCALE

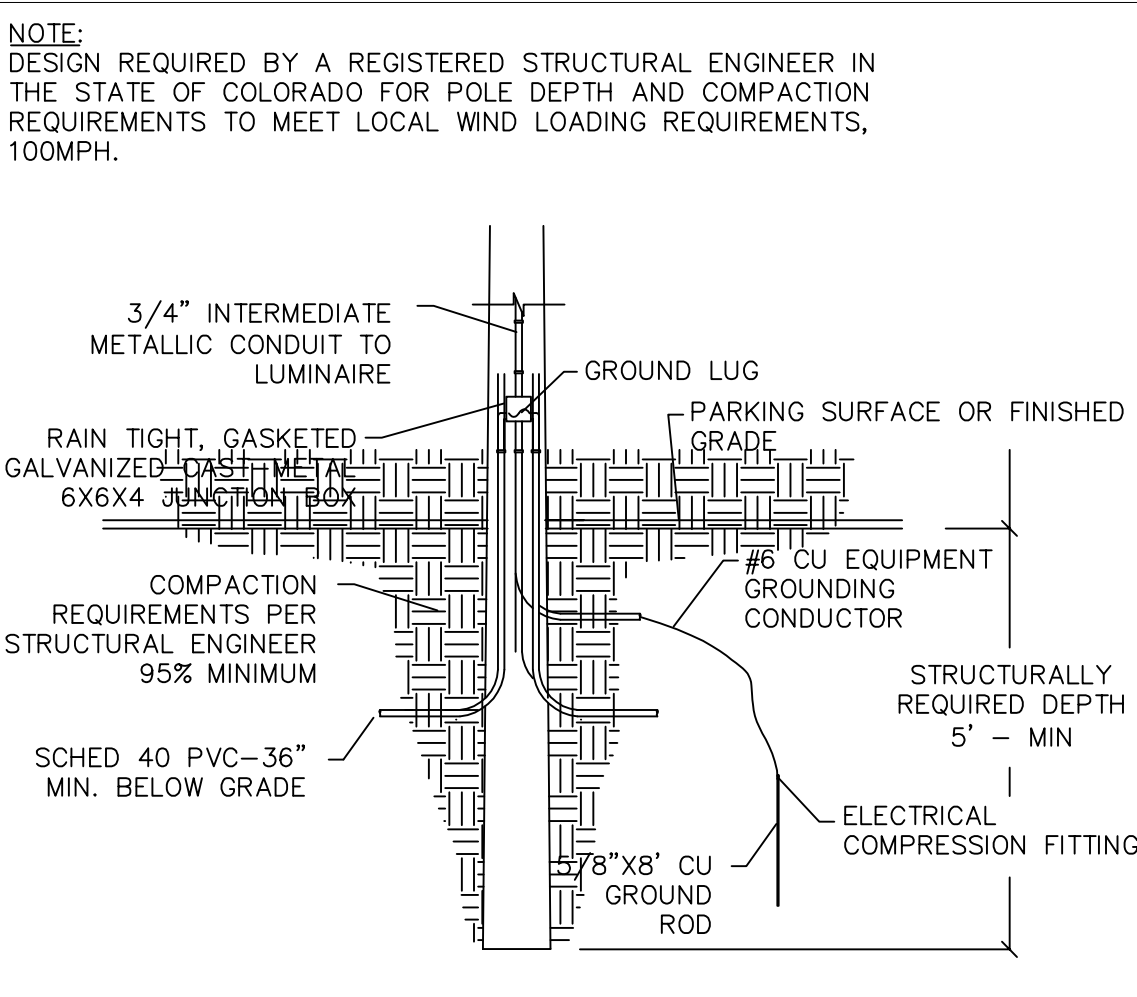
E PARKING LOT LIGHT DETAIL
NO SCALE

| SITE | | Description | Finish | Voltage | Mounting | Manufacturer | Catalog Number | Location |
|-----------|---|---|---|---------|-------------------------|---------------------------------|--|------------------|
| Type | Lamp | | | | | | | |
| L3A | (1) 150 WATT PULSE START METAL HALIDE MH150/C/U/M, 13000 LUMENS, 70° CRI, 15,000 HRS | PEDESTRIAN SCALE HORIZONTAL POST TOP LUMINAIRE, ONE-PIECE, DIE CAST POWDER COATED ALUMINUM HOUSING, WITH OPTICALLY CLEAR TEMPERED FLAT GLASS LENS, 16 INCH DIAMETER. PULSE START METAL HALIDE LAMPING, TYPE III DIST. | WOOD POLE | 240V | WOOD POLE - 14' | EMCO OR OWNER APPROVED EQUAL | AVA-1-3-150PSMH-240V-BRP-PTF2-MOD WOOD BRACKET-14FT POLE | PEDESTRIAN TRAIL |
| L3 | (1) 250 WATT PULSE START METAL HALIDE PSMH250/C/U/M, 23000 LUMENS, 65° CRI, 15,000 HRS | 35 FOOT ALUMINUM POLE WITH HORIZONTAL POST TOP LUMINAIRE, ONE-PIECE, DIE CAST POWDER COATED ALUMINUM HOUSING, WITH OPTICALLY CLEAR TEMPERED FLAT GLASS LENS, 16 INCH DIAMETER. PULSE START METAL HALIDE LAMPING, TYPE III DIST. | POWDER COAT ALUMINUM POLE. CONFIRM COLOR OPTIONS PRIOR TO ORDER | 240V | POLE - 35' | EMCO OR OWNER APPROVED EQUAL | AVA-1-3-250PSMH-240V-BRP | PARKING LOT |
| L3 DOUBLE | (2) 250 WATT PULSE START METAL HALIDE PSMH250/C/U/M, 23000 LUMENS, 65° CRI, 15,000 HRS | 35 FOOT ALUMINUM POLE WITH HORIZONTAL POST TOP LUMINAIRE, ONE-PIECE, DIE CAST POWDER COATED ALUMINUM HOUSING, WITH OPTICALLY CLEAR TEMPERED FLAT GLASS LENS, 16 INCH DIAMETER. PULSE START METAL HALIDE LAMPING, TYPE III DIST. | POWDER COAT ALUMINUM POLE. CONFIRM COLOR OPTIONS PRIOR TO ORDER | 240V | BACK TO BACK POLE - 35' | EMCO OR OWNER APPROVED EQUAL | AVA-2-3-250PSMH-240V-BRP | PARKING LOT |
| L5 | (1) 250 WATT PULSE START METAL HALIDE PSMH250/C/U/M, 23000 LUMENS, 65° CRI, 15,000 HRS | 35 FOOT ALUMINUM POLE WITH HORIZONTAL POST TOP LUMINAIRE, ONE-PIECE, DIE CAST POWDER COATED ALUMINUM HOUSING, WITH OPTICALLY CLEAR TEMPERED FLAT GLASS LENS, 16 INCH DIAMETER. PULSE START METAL HALIDE LAMPING, TYPE V DIST. | POWDER COAT ALUMINUM POLE. CONFIRM COLOR OPTIONS PRIOR TO ORDER | 240V | POLE - 35' | EMCO OR OWNER APPROVED EQUAL | AVA-1-5-250PSMH-240V-BRP | PARKING LOT |
| L5 DOUBLE | (2) 250 WATT PULSE START METAL HALIDE PSMH250/C/U/M, 23000 LUMENS, 65° CRI, 15,000 HRS | 35 FOOT ALUMINUM POLE WITH HORIZONTAL POST TOP LUMINAIRE, ONE-PIECE, DIE CAST POWDER COATED ALUMINUM HOUSING, WITH OPTICALLY CLEAR TEMPERED FLAT GLASS LENS, 16 INCH DIAMETER. PULSE START METAL HALIDE LAMPING, TYPE V DIST. | POWDER COAT ALUMINUM POLE. CONFIRM COLOR OPTIONS PRIOR TO ORDER | 240V | BACK TO BACK POLE - 35' | EMCO OR OWNER APPROVED EQUAL | AVA-2-5-250PSMH-240V-BRP | PARKING LOT |

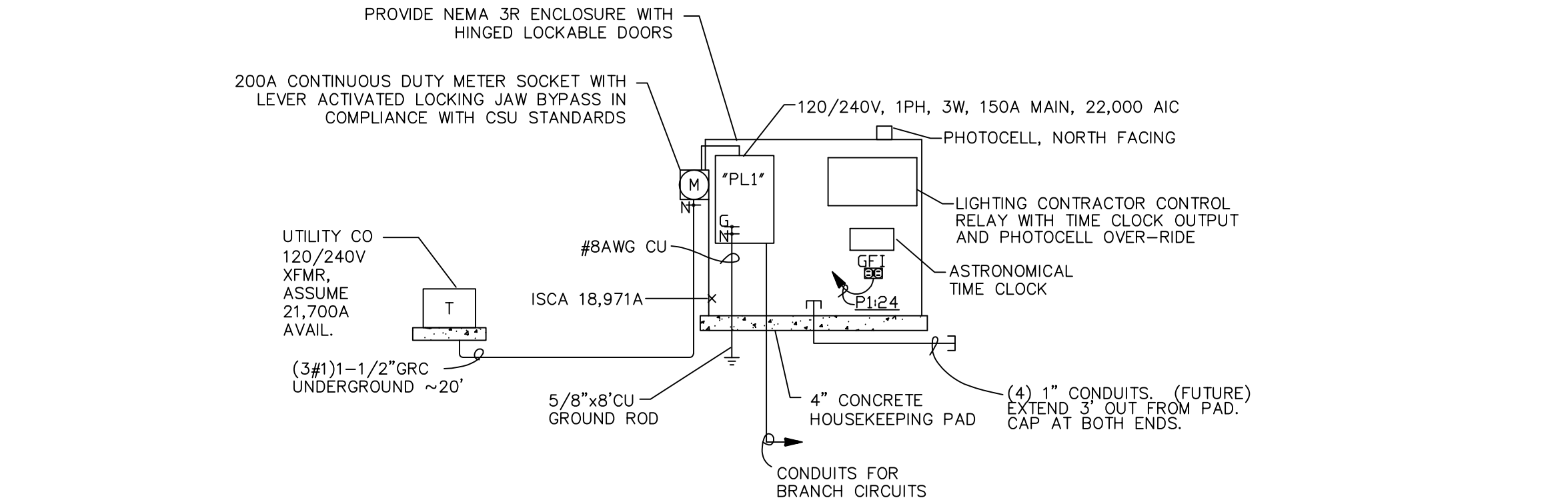
G FIXTURE SCHEDULE
NO SCALE



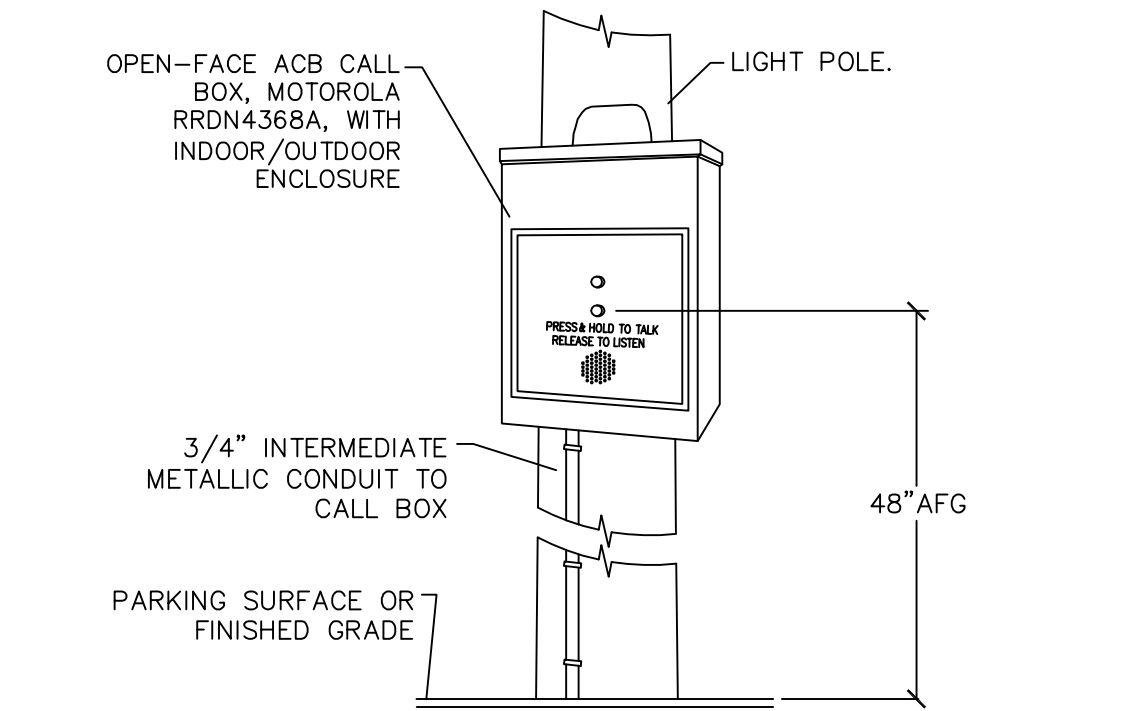
D PARKING LOT POLE BASE DETAIL
NO SCALE



A TRAIL POLE BASE DETAIL
NO SCALE



B 'PL1' ELECTRICAL ONE-LINE DIAGRAM, PANEL ELEVATION
NO SCALE



C BLUE PHONE
NO SCALE

| REVISIONS | | | | |
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT

LIGHTING DETAILS

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|------------------|------------|-----------------------------|-----|
| DESIGNED BY: APS | SCALE | DATE ISSUED: APRIL 06, 2012 | L04 |
| DRAWN BY: APS | HORIZ: N/A | SHEET NO. 16 OF 16 | |
| CHECKED BY: | VERT: N/A | | |