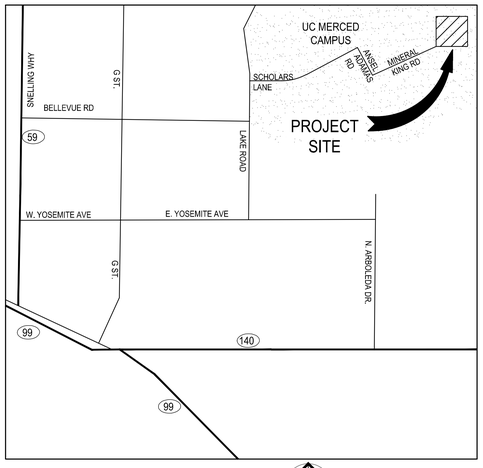
UNIVERSITY OF CALIFORNIA MERCED

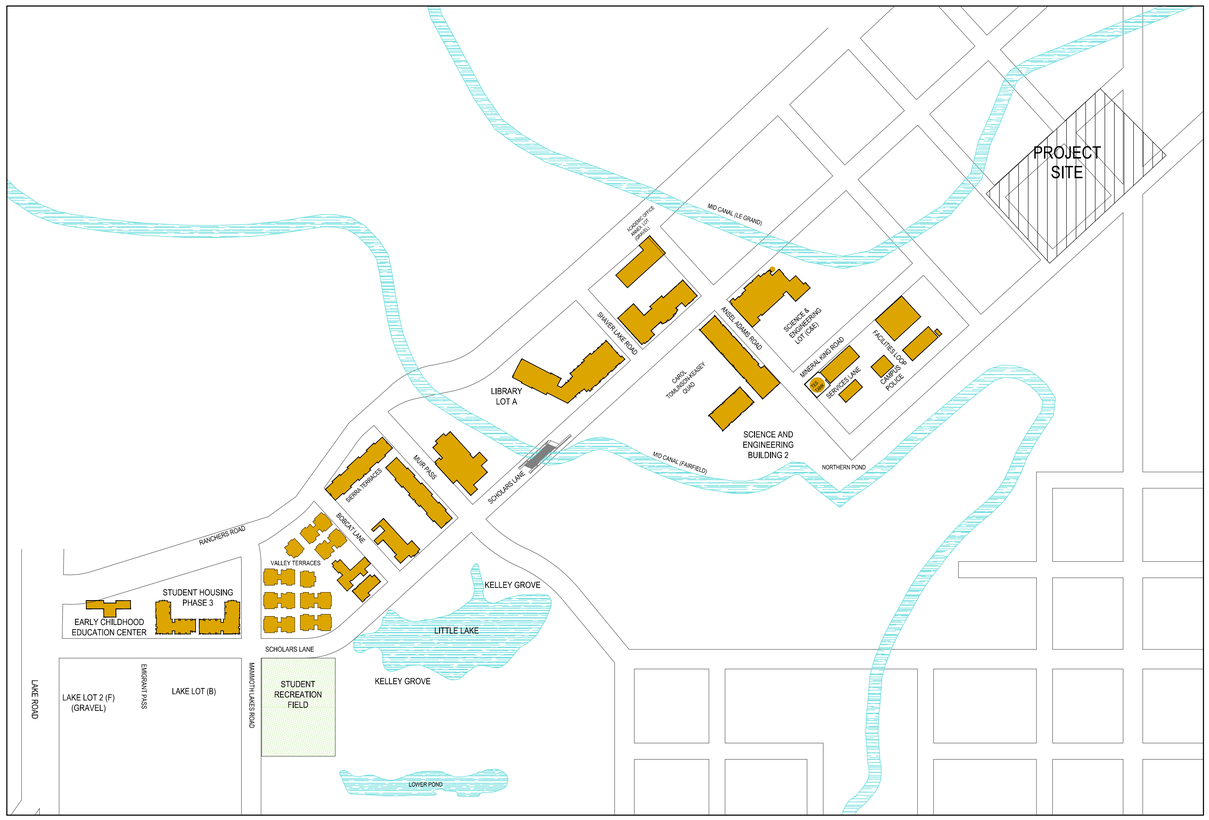
NORTH BOWL PARKING PHASE 2

MERCED, CALIFORNIA



VICINITY MAP

NOT TO SCALE



CAMPUS MAP

SCALE1"=250'

INDEX OF SHEETS:

PARKING DATA SUMMARY

PHASE 2

STANDARD PARKING STALL	323
STANDARD (COMPACT) PARKING STALL	12
ACCESSIBLE PARKING STALL (NON-VAN)	14
ACCESSIBLE PARKING STALL (VAN)	2
MOTORCYCLE PARKING	8
SUBTOTAL PHASE 2 PARKING STALL	359

PHASE 2 - DEDUCTIVE ALTERNATIVE 1

STANDARD PARKING STALL	121
STANDARD (COMPACT) PARKING STALL	0
MOTORCYCLE PARKING	4
SUBTOTAL PHASE 2 PARKING W/ DEDUCTIVE ALTERNATIVE 1	125

PHASE 2 - DEDUCTIVE ALTERNATIVE 2

STANDARD PARKING STALL	119
STANDARD (COMPACT) PARKING STALL	0
MOTORCYCLE PARKING	4
SUBTOTAL PHASE 2 PARKING W/ DEDUCTIVE ALTERNATIVE 1	123

TOTAL PARKING FOR PHASE 2 IMPROVEMENTS - W/O MOTORCYCLE	591
TOTAL PARKING FOR PHASE 2 IMPROVEMENTS	607

PROJECT DATA

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY THE UNIVERSITY REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE PROJECT THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
3. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS AND CURRENT GOVERNING CODES.

   2013 CALIFORNIA BUILDING CODE (CBC)

   2013 CALIFORNIA ELECTRICAL CODE (CEC)

   2013 CALIFORNIA PLUMBING CODE (CPC)

   2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.

   2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

PROJECT SCOPE OF WORK DESCRIPTION

SUMMARY OF CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO:

1. DEMOLITION AND REMOVAL OF ASPHALT, CURB, AND FENCES.
2. CONSTRUCTION OF A PARKING LOT AND PATHWAYS SYSTEM AS INDICATED ON THE PROJECT PLANS.
3. CONSTRUCTION OF GRAVEL ACCESS RAMPS AND ROADS AS INDICATED ON THE PROJECT PLANS.
4. INSTALLATION OF LIGHTING, PARKING PAY STATIONS, EMERGENCY PHONE SYSTEM, AND WATER AND STORM INFRASTRUCTURE.
5. HYDROSEED AREAS PER PLAN.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
@	AT
AB	AGGREGATE BASE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALT CONCRETE
BCR	BEGINNING OF CURB RETURN
BO	BLOWOFF
BOC	BACK OF CURB
BOW	BACK OF WALK
C & G	CURB AND GUTTER
C,G, & SW	CURB, GUTTER, AND SIDEWALK
CL	CENTERLINE
CB	CATCH BASIN
CJ	CONSTRUCTION JOINT
CO	CLEANOUT
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
EBOW	EXISTING BACK OF WALK
ECR	END OF CURB RETURN
EL	ELEVATION
EG	EXISTING GROUND
EP	EDGE OF PAVEMENT, EXISTING PAVEMENT
ESMT	EASEMENT
EX.	EXISTING
FL	FLOWLINE
FH	FIRE HYDRANT
FOC	FACE OF CURB
FT.	FEET
G	GROUND
GB	GRADE BREAK
HP	HIGH POINT
ID	INSIDE DIAMETER
IN.	INCH
LF	LINEAL FEET
LH	LAMP HOLE
LP	LOW POINT
LT	LEFT
LTS	LIME TREATED SUB-BASE
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MID	MERCED IRRIGATION DISTRICT
MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NO.	NUMBER
NRCP	NON-REINFORCED CONCRETE PIPE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OFOI	OWNER FURNISHED, OWNER INSTALL
P	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
POT	POINT OF TANGENCY
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PL	PROPERTY LINE
R	RADIAL OR RADIUS
R/W	RIGHT-OF-WAY
RC	ROLL-CURB
RCP	REINFORCED CONCRETE PIPE
RP	RADIUS POINT
RT	RIGHT
SD	STORM DRAIN
SS	SANITARY SEWER
SL	STREET LIGHT
SW	SIDEWALK
SDMH	STORM DRAIN MAINTENANCE HOLE
SHT	SHEET
SSMH	SANITARY SEWER MAINTENANCE HOLE
STA	STATION
STD	STANDARD
TC	TOP OF CURB
TOW	TOP OF WALL
THRU	THROUGH
TI	TRAFFIC INDEX
TID	TURLOCK IRRIGATION DISTRICT
TYP	TYPICAL
UCM	UNIVERSITY OF CALIFORNIA MERCED
VERT	VERTICAL
W	WATER
WP	WEAKENED PLANE
(W)	WEST
(E)	EAST
(S)	SOUTH
(N)	NORTH
±	PLUS OR MINUS

PROJECT CONTACTS

OWNER

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UC Merced

University of California
Merced, California

Project Name:
North Bowl Parking Phase 2

Project Number:
906550

Engineer:

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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/17
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/31/16

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DIVISION OF THE STATE ARCHITECT

APPL 01

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DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENTS

No.	Description	Issue Date
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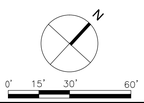
Revision Date: 3/30/2016
Plot Date: 3/31/2016
Scale:

Key Plan:



Drawing Title

COVER SHEET

Drawing Number:

C1.0

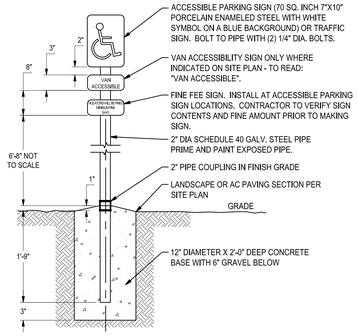
GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS AND PLANS, LATEST EDITION, AND ALL AMENDMENTS THERE TO TO-DATE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS EXPENSE.
3. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, ASPHALT CONCRETE PAVING, AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK. ALL SUCH EXCESS MATERIAL GENERATED SHALL BE DISPOSED OF FROM THE SITE BY THE CONTRACTOR.
5. EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE UNIVERSITY AND THE ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE UNIVERSITY REPRESENTATIVE TO ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES.
6. ATTENTION IS CALLED TO: SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:

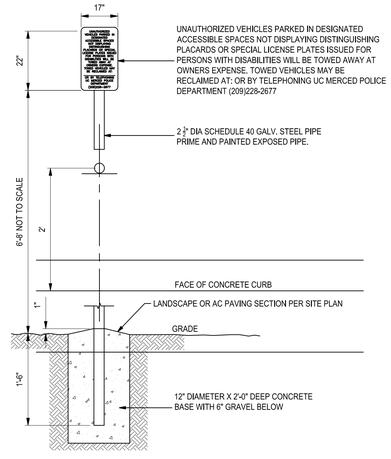
   "PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN UNIVERSITIES OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."
7. WHENEVER EXISTING PAVEMENT IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE UNIVERSITY.
8. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT IN THE INSTALLATION OF THE IMPROVEMENTS COVERED BY THESE PLANS AND SPECIFICATIONS WILL BE REPLACED Y THE CONTRACTOR AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
9. THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS, WATER MAINS, AND SANITARY SEWERS WHERE CONNECTIONS AND CROSSINGS ARE TO BE MADE SO EXISTING FLOWLINES AND LOCATIONS CAN BE VERIFIED BEFORE THE START OF CONSTRUCTION.
10. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE UNIVERSITY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE UNIVERSITY OR THE DESIGN PROFESSIONAL.
11. THE PROPERTY UNIVERSITIES, DEVELOPERS, AND/OR SUCCESSORS IN INTEREST SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD.
12. DUST CONTROL SHALL BE PERFORMED AT ALL TIMES, AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS.
13. ANY VOIDS LEFT BY THE REMOVAL OF UNDERGROUND UTILITIES OR OTHER BURIED OBJECTS SHALL BE CLEANED OF ALL LOOSE SOILS AND SHALL BE PROPERLY BACKFILLED WITH ENGINEERED FILLED THAT THE UNIVERSITY APPROVES.
14. ENGINEERED FILL SHALL BE PLACED IN HORIZONTAL LAYERS A MAXIMUM OF 8 INCHES IN LOOSE THICKNESS AND BE MOISTURE CONDITIONED TO AT LEAST 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, AS DETERMINED BY ASTM D1557 AND THE UNIVERSITY'S SOIL ENGINEER.

GRADING NOTES

1. GRADING AND LAND STABILIZATION SHALL INCLUDE COST OF REMOVING FROM THE SITE ALL STRIPPED VEGETATION, DEBRIS, STRUCTURES, POWER POLES, EXISTING PAVEMENT, TREES, AND OTHER DELETERIOUS MATERIALS.
2. STOCKPILES OF EXISTING DELETERIOUS MATERIAL SHALL BE DISPOSED OF UNDER THE DIRECTION AND SUPERVISION OF THE UNIVERSITYAND PER THE PROJECT PLANS..



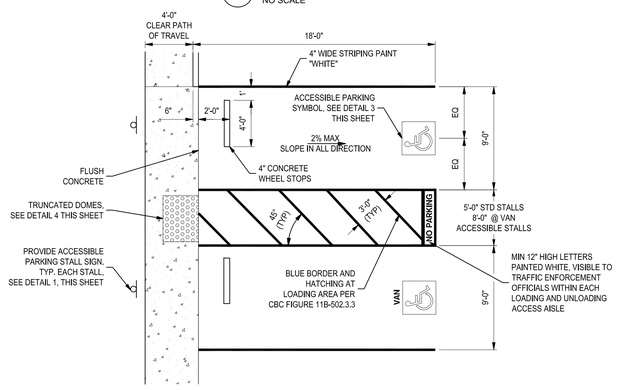
A PARKING STALL SIGNAGE



B ENTRY TOW AWAY SIGN

1 ACCESSIBLE PARKING SIGNAGE

NO SCALE



2 ACCESSIBLE PARKING DETAIL

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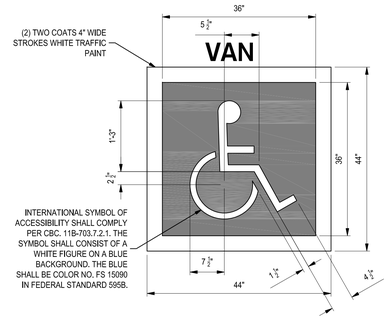

3 ACCESSIBLE PARKING SYMBOL

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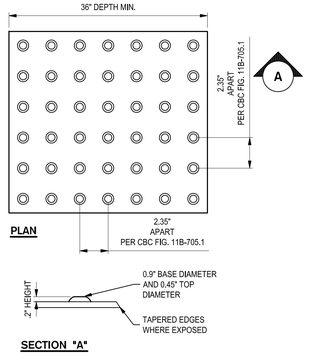

4 TRUNCATED DOMES

NO SCALE

LEGEND

EXISTING		PROPOSED
E E	ELECTRICAL CONDUIT	E E
3.0	GROUND CONTOUR	3.0
11.93TC / 11.43FL	TOP OF CURB ELEVATION / FLOW LINE ELEVATION	11.93TC / 11.43FL
11.93C	CONCRETE ELEVATION	11.93C
15.50P	PAVEMENT ELEVATION	15.50P
15.50FL	FLOWLINE ELEVATION	15.50FL
15.50TC	TOP OF CURB ELEVATION	15.50TC
15.50BW	BACK OF WALK ELEVATION	15.50BW
	EASEMENT LINE	
	PROPERTY & R/W LINE	
8"SS	SANITARY SEWER LINE	8"SS
8"SD	STORM DRAIN LINE	8"SD
12"W	WATER LINE	12"W
IRR	LANDSCAPE IRRIGATION WATER LINE	
	ONSITE CONTROL:	
	CLEANOUT PER DETAIL 7 C7.0	
	DRAINAGE INLET PER DETAIL 4 C7.0	
	CURB, GUTTER, AND SIDEWALK	
	CONCRETE CURB	
	GATE VALVE	
	FIRE HYDRANT PER DETAIL 7 C7.0	
	BACKFLOW PREVENTER	
	SIGN	
	WATER METER	W
	EXISTING TREE	
	ELECTROLIER	

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Reviewed By:_____
Project #:
Authorization #:

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REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/17 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 04/01/16

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DIVISION OF THE STATE ARCHITECT

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DATE_____

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No.	Description	Issue Date
1	---	---

Drawn By: MWK
Revision Date: 3/30/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

N
0' 15' 30' 60'

Drawing Title
GENERAL NOTES, ABBREVIATIONS & ADA DETAILS

Drawing Number:
C1.1

30x42

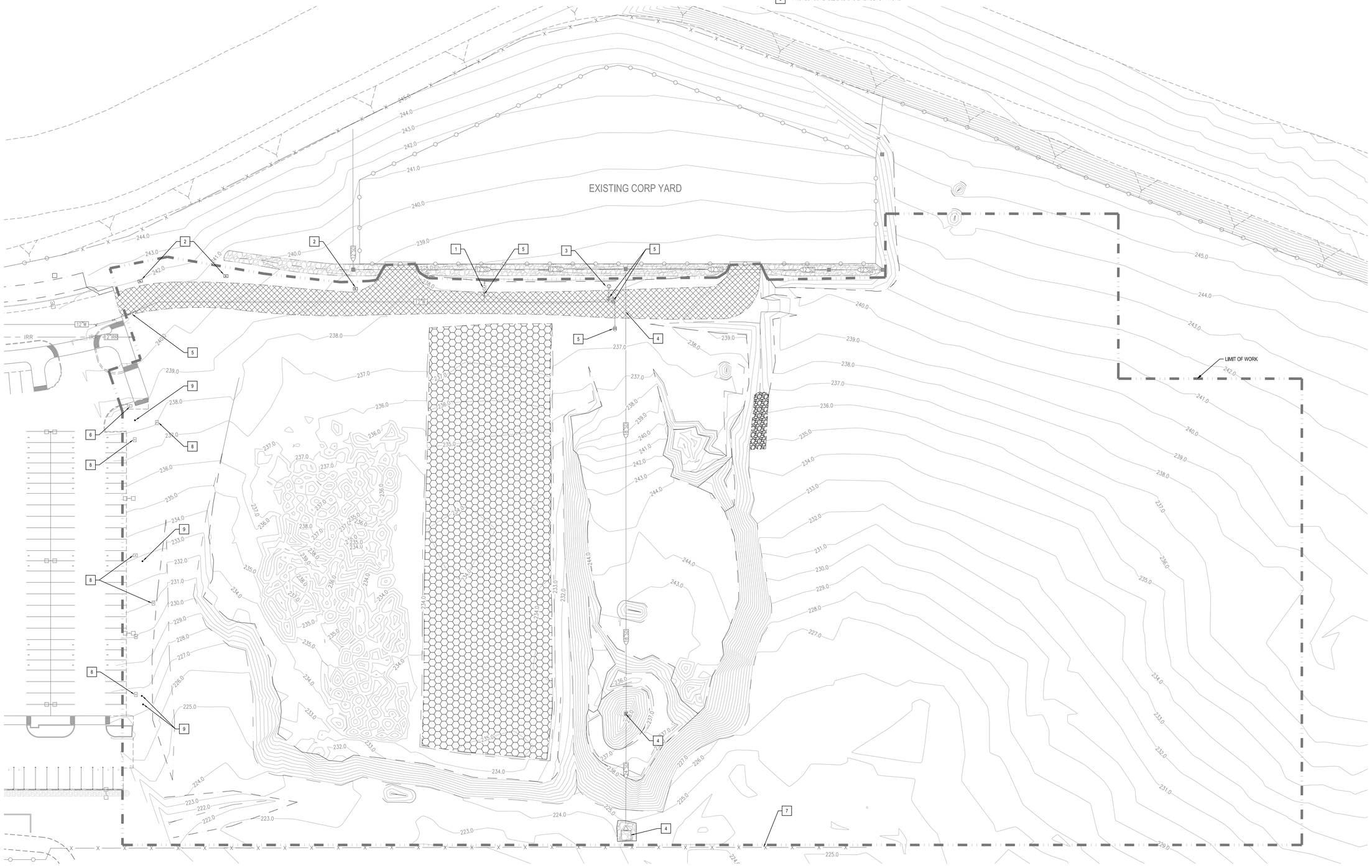
File Name: F:\12cad\12116 UCM North Bowl Phase 2\Improvement Plans\12116-C01.1-NOTES.dwg -- 04/01/16

DEMOLITION KEY NOTES:

1. PROTECT IN PLACE, EXISTING BACKFLOW PREVENTER AND WATER METER.
2. PROTECT IN PLACE, EXISTING ELECTRICAL BOX.
3. PROTECT IN PLACE, EXISTING FIRE HYDRANT.
4. PROTECT IN PLACE, EXISTING STORM DRAIN LINE AND STRUCTURES.
5. PROTECT IN PLACE, EXISTING WATER VALVE, ADJUST TO FINISHED GRADE.
6. PROTECT IN PLACE, EXISTING EMERGENCY PHONE
7. PROTECT IN PLACE, EXISTING FENCE
8. REMOVE AND REPLACE, EXISTING CONCRETE UTILITY VAULT LID WITH TRAFFIC RATED LID, ADJUST TO FINISHED GRADE, SEE DETAIL 6 ON SHEET C7.1.
9. PROTECT IN PLACE, EXISTING IRRIGATION STUB. INSTALL IRRIGATION STUB IN PULL BOX WITH TRAFFIC RATED LID, SEE DETAIL 6 ON SHEET C7.1.

DEMOLITION LEGEND

- EXISTING GRAVEL TO BE MIXED IN MASS GRADING
- EXISTING COBBLE TO REMAIN
- EXISTING GRAVEL ROAD SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION



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Seal and Signature

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Drawn By:	MWK
Revision Date:	3/30/2016
Plot Date:	4/1/2016
Scale:	1"=30'

Key Plan:

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0' 15' 30' 60'

Drawing Title

TOPOGRAPHY & DEMOLITION PLAN

Drawing Number:

C2.0

30x42

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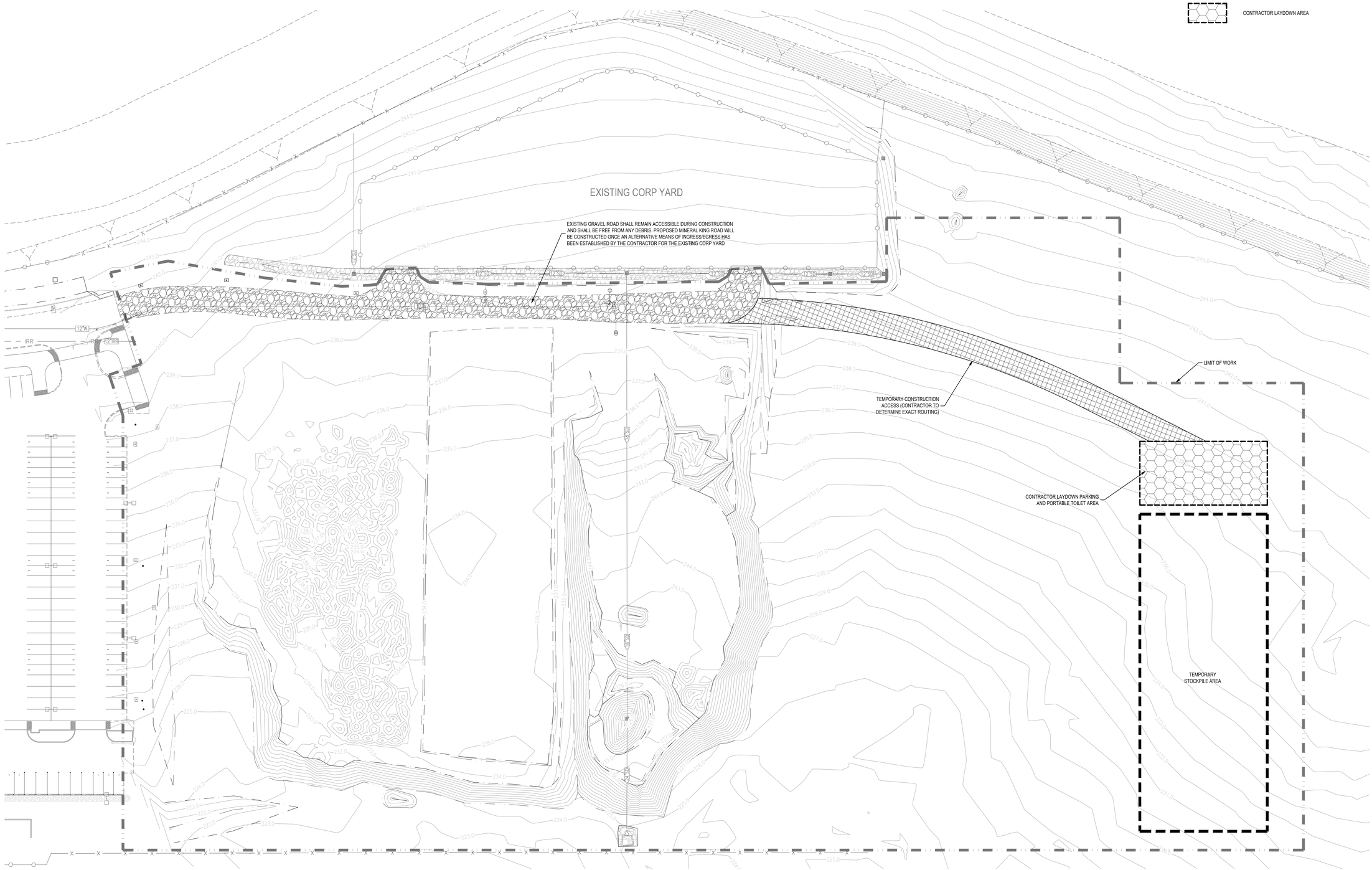

THIS PLAN
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Plot Date:	3/31/2016
Scale:	1" : 30

Key Plan:

N

0' 15' 30' 60'

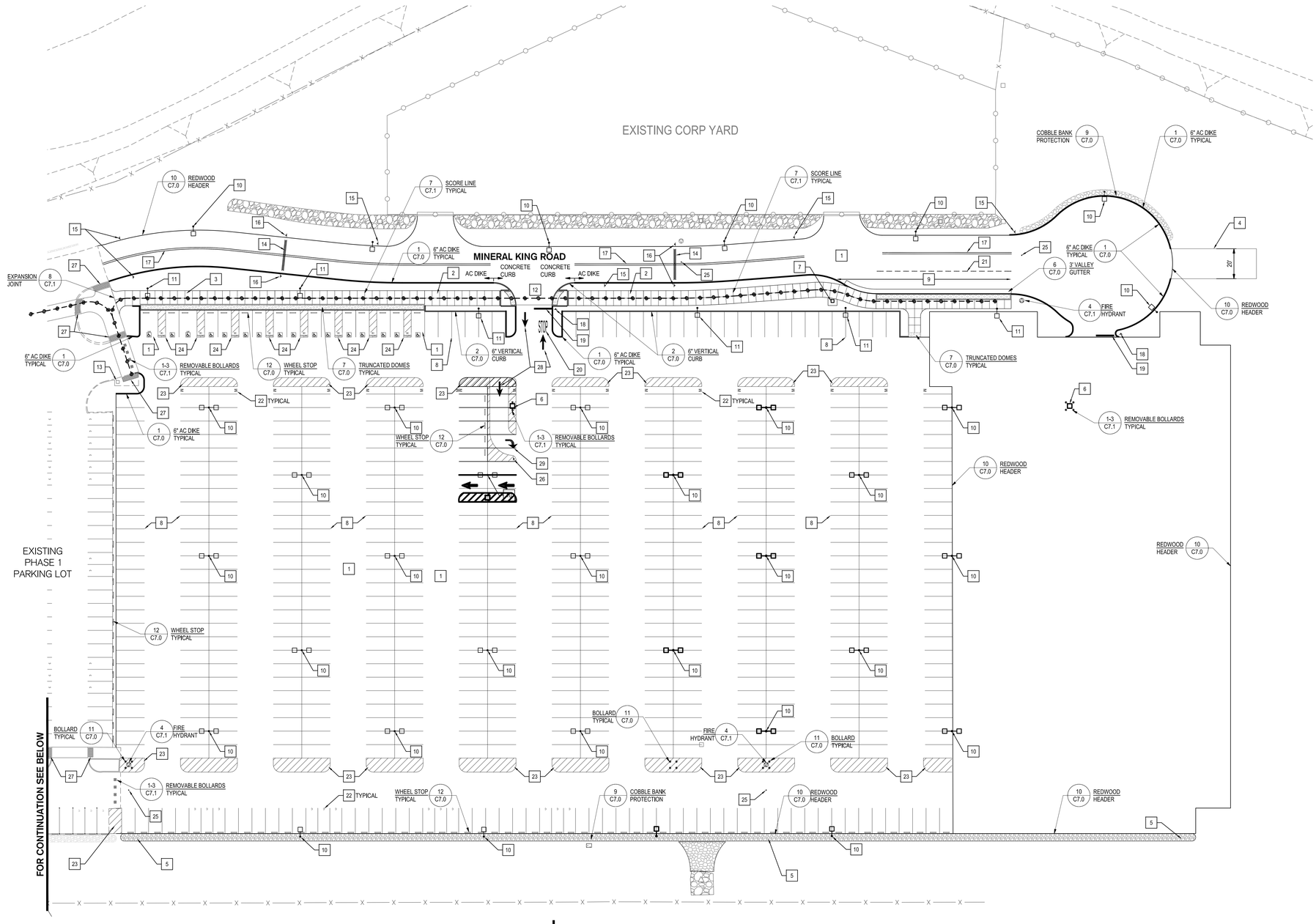
Drawing Title

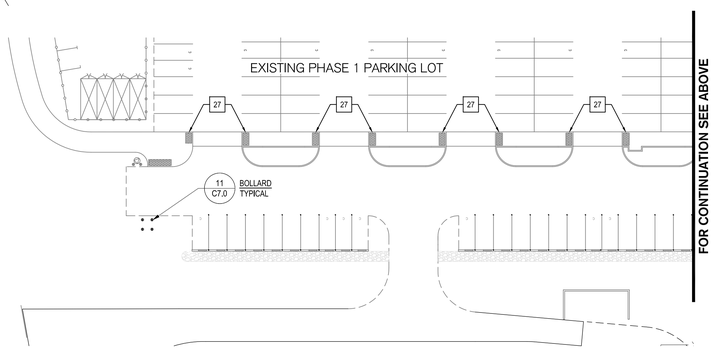
LOGISTIC PLAN

FOR REFERENCE ONLY

Drawing Number:

C2.1





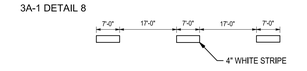
KEYNOTES:

1. ROADWAYS AND ACCESSIBLE PARKING STALLS. PER LEGEND ON SHEETS C4.0 AND C4.1.
2. PEDESTRIAN PATHWAYS, CAMPUS WALKWAYS, 10'-12' WIDE MULTI-USE PATHWAY.
3. PEDESTRIAN CONCRETE PAVEMENT. EXTENSION OF DETACHED PEDESTRIAN WALKWAY AT MINERAL KING ROAD AND FLUSH WALKWAYS AT ACCESSIBLE PARKING AND END OF PARKING STALLS.
4. MAINTENANCE ACCESS
5. COBBLESTONE EROSION PROTECTION
6. PAY STATION - SKID MOUNTED, WIRELESS, AND SOLAR. COLOR: TIGER DRYLAC, 49/72530, RAL 7023 SM GL TRIBO, BATCH #L CAL 11705EG, OR EQUAL (OWNER FURNISH, OWNER INSTALL)
7. WEBS EMERGENCY SECURITY COMMUNICATION STATION "BLUE LIGHT" (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED SEE DETAIL ON SHEET E3.2
8. 4" WHITE PARKING LOT STRIPING. PER PROJECT SPECIFICATIONS SECTION 32 17 23.
9. BUS STOP TURNOUT.
10. PARKING LOT AND STREET LIGHTING. LIGHT STANDARDS. SEE ELECTRICAL PLANS FOR DESCRIPTIONS AND DETAILS. COLOR: MATCH EXISTING LIGHT POLE COLOR ON NORTH BOWL PARKING PHASE 1.
11. PATHWAY LIGHTING. LIGHT STANDARDS FOR PATHS. SEE ELECTRICAL PLANS FOR DESCRIPTIONS AND DETAILS. COLOR: MATCH EXISTING LIGHT POLE COLOR ON NORTH BOWL PARKING PHASE 1.
12. STRIPED PEDESTRIAN CROSSINGS. PER PROJECT SPECIFICATIONS SECTION 32 17 23.
13. EXISTING "WEBS" EMERGENCY PHONE
14. SPEED CONTROL BUTTONS 5 FOOT WIDE GRID OF NON-RETROREFLECTIVE WHITE MARKERS @ 12" O.C. EACH WAY - SEE DETAIL BELOW
15. 20MPH SPEED LIMIT SIGN ON METAL POLE. SEE MUTCD LEGEND ON THIS PAGE FOR SIGN. SEE DETAIL 9, ON SHEET C7.1, FOR SIGN POLE DETAIL.
16. "SLOW" WARNING SIGN ON METAL POLE, MUTCD W41-3 "SLOW". SEE MUTCD LEGEND ON THIS PAGE FOR SIGN. SEE DETAIL 9, ON SHEET C7.1, FOR SIGN POLE DETAIL.
17. DOUBLE YELLOW LINE PER MUTCD FIGURE 3A-1 DETAIL 21, SEE MUTCD LEGEND ON THIS PAGE FOR SIZE.
18. MUTCD R1-1 "STOP" SIGN ON METAL POLE. SEE MUTCD LEGEND ON THIS PAGE FOR SIGN. SEE DETAIL 9, ON SHEET C7.1, FOR SIGN POLE DETAIL.
19. 12" LIMIT LINE WHITE PER MUTCD FIGURE 3B-16
20. "STOP" PAVEMENT MARKING PER MUTCD FIGURE 3B-20, SEE MUTCD LEGEND ON THIS PAGE FOR SIZE.
21. 4" WHITE STRIPE PER MUTCD FIGURE 3A-1 DETAIL 8, SEE MUTCD LEGEND ON THIS PAGE FOR SIZE
22. 8" HIGH WHITE PAINTED LETTER INDICATING "C" FOR COMPACT OR "M" FOR MOTORCYCLE
23. 4" WHITE STRIPE, SEE DETAIL 2 ON SHEET C1.1.
24. 4" BLUE STRIPE, SEE DETAIL 2 ON SHEET C1.1.
25. BLUE REFLECTIVE RAISED FIRE HYDRANT PAVEMENT MARKER
26. RIGHT TURN ONLY SIGN ON METAL POLE PER MUTCD R3-5R. SEE MUTCD LEGEND ON THIS PAGE FOR SIGN. SEE DETAIL 9, ON SHEET C7.1, FOR SIGN POLE DETAIL.
27. EXISTING TRUNCATED DOMES
28. MUTCD 3B-24 TYPE I 10'-0" ARROW, SEE MUTCD LEGEND ON THIS PAGE FOR SIZE.
29. MUTCD 3B-24 TYPE IV (R) ARROW, SEE MUTCD LEGEND ON THIS PAGE FOR SIZE.

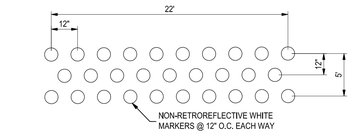
MUTCD LEGEND:

3A-1 DETAIL 21

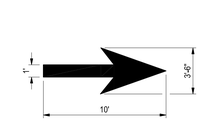
3A-1 DETAIL 8



SPEED CONTROL BUTTONS



PAVEMENT ARROWS



3B-24 TYPE I 10'-0" ARROW

3B-24 TYPE IV (R) ARROW

STOP BAR & STOP PAVEMENT MARKINGS

STOP LIMIT PAVEMENT LINE, PER MUTCD SECTION 3B-16

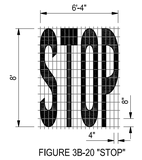


FIGURE 3B-20 "STOP"

LEGEND

ADA PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". CONTRACTOR SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

NOTES:

1. ALL PAVEMENT MARKINGS, STRIPING, AND SIGNS ARE PER MUTCD CALIFORNIA SUPPLEMENT, LATEST EDITIONS
2. SIGNS SHALL BE INSTALLED ON POST PER DETAIL 9, ON SHEET C7.1.

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Merced, California

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Key Plan:

0' 15' 30' 60'

Drawing Title
CONSTRUCTION PLAN

Drawing Number:
C3.0

30x42

File Name: F:\12cad\12116 UCM North Bowl Phase 2\Improvement Plans\12116-C03.0-CON PLAN.dwg -- 03/31/16

PAVEMENT LEGEND

HEAVY DUTY AC PAVEMENT (TI=7.0)
4.0" AC OVER 15.5" CLASS II AB MOISTURE CONDITIONED TO AT LEAST OPTIMUM AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION OVER 12" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, RELATIVE COMPACTION.

LIGHT DUTY AC PAVEMENT (TI=5.0)
2.5" AC OVER 11.0" CLASS II AB MOISTURE CONDITIONED TO AT LEAST OPTIMUM AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION OVER 12" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, RELATIVE COMPACTION.

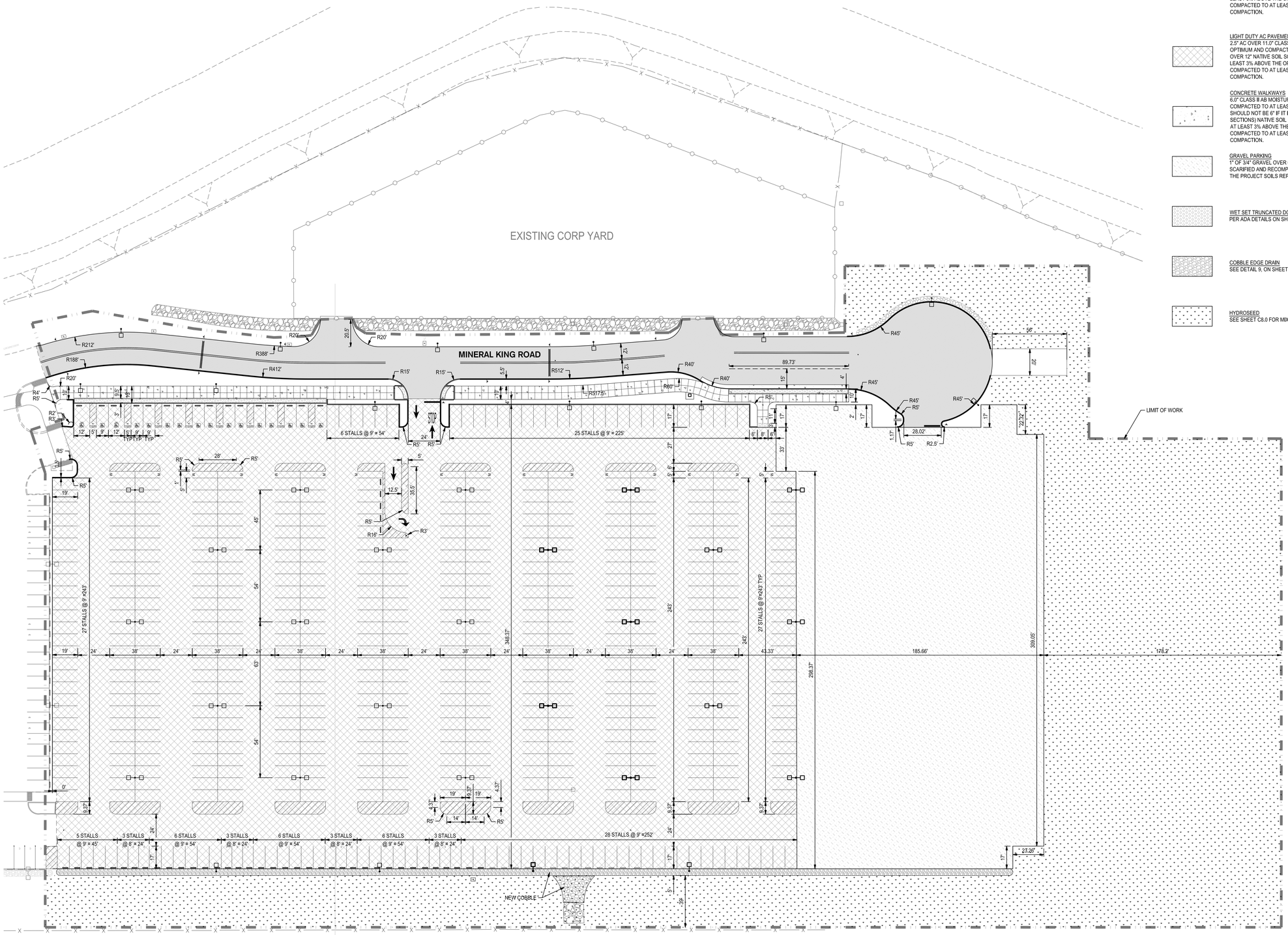
CONCRETE WALKWAYS
6.0" CLASS II AB MOISTURE CONDITIONED TO AT LEAST OPTIMUM AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION OVER 12" (THIS SHOULD NOT BE 6" IF IT IS MATCHING UP WITH THE PAVEMENT SECTIONS) NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, RELATIVE COMPACTION.

GRAVEL PARKING
1" OF 3/4" GRAVEL OVER 6" CLASS II AB OVER 12" NATIVE SOIL SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER THE PROJECT SOILS REPORT.

WET SET TRUNCATED DOMES
PER ADA DETAILS ON SHEET C1.1 AND THE PROJECT SPECIFICATIONS

COBBLE EDGE DRAIN
SEE DETAIL 9, ON SHEET C7.0.

HYDROSEED
SEE SHEET C8.0 FOR MIX SPECIFICATIONS



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PAVING PLAN

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30x42

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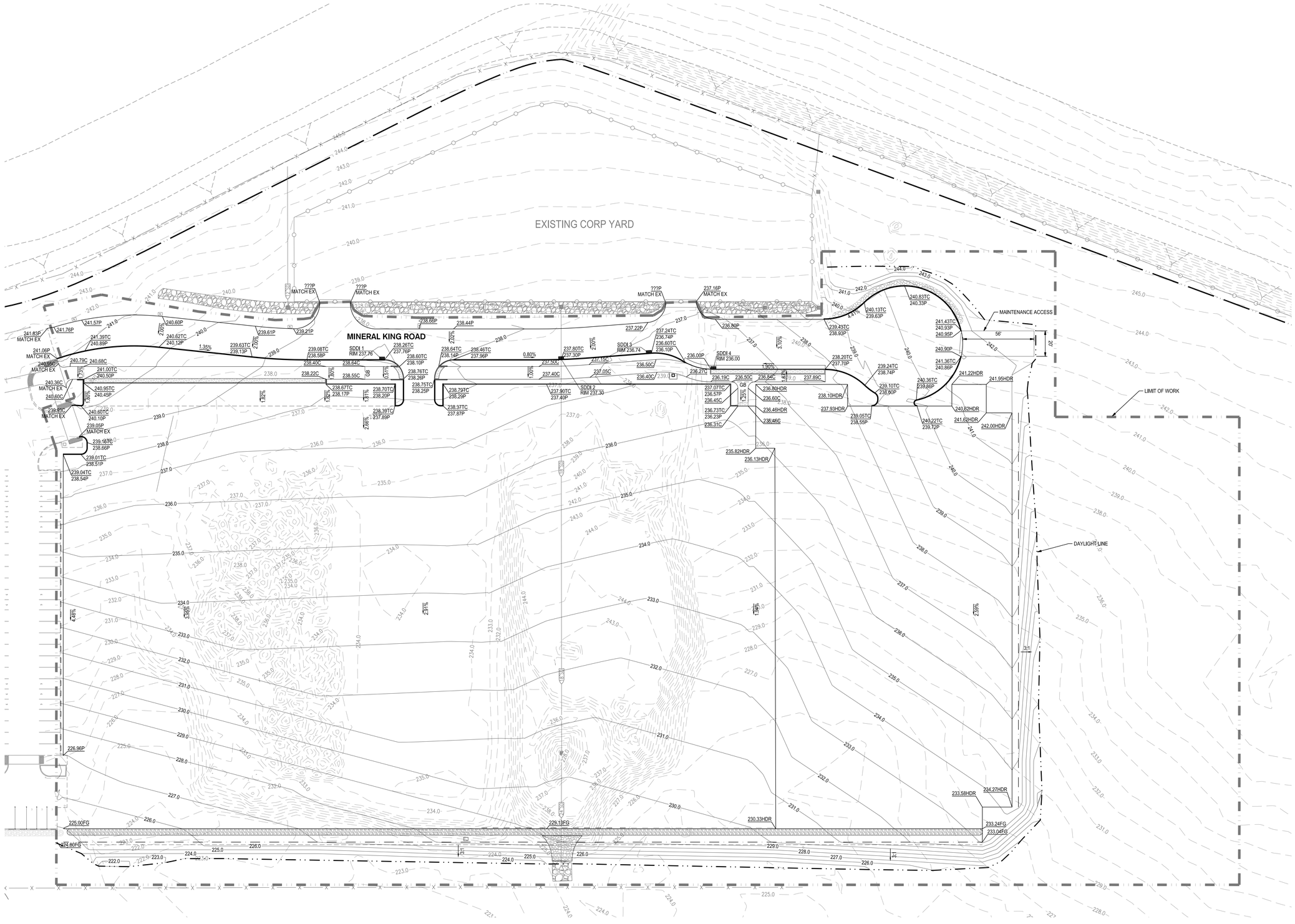

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Key Plan:

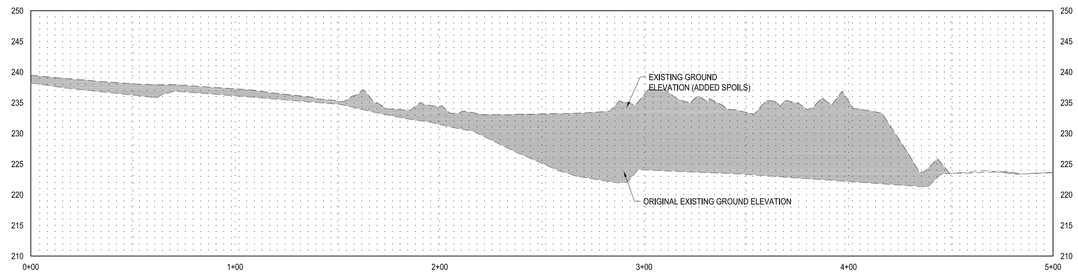
N
0' 15' 30' 60'

Drawing Title

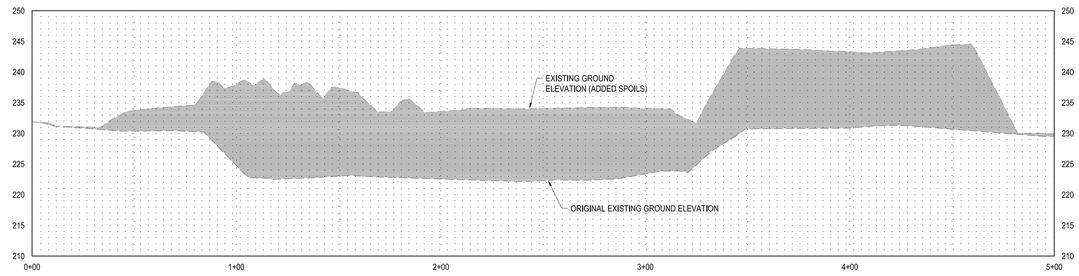
GRADING PLAN

Drawing Number:

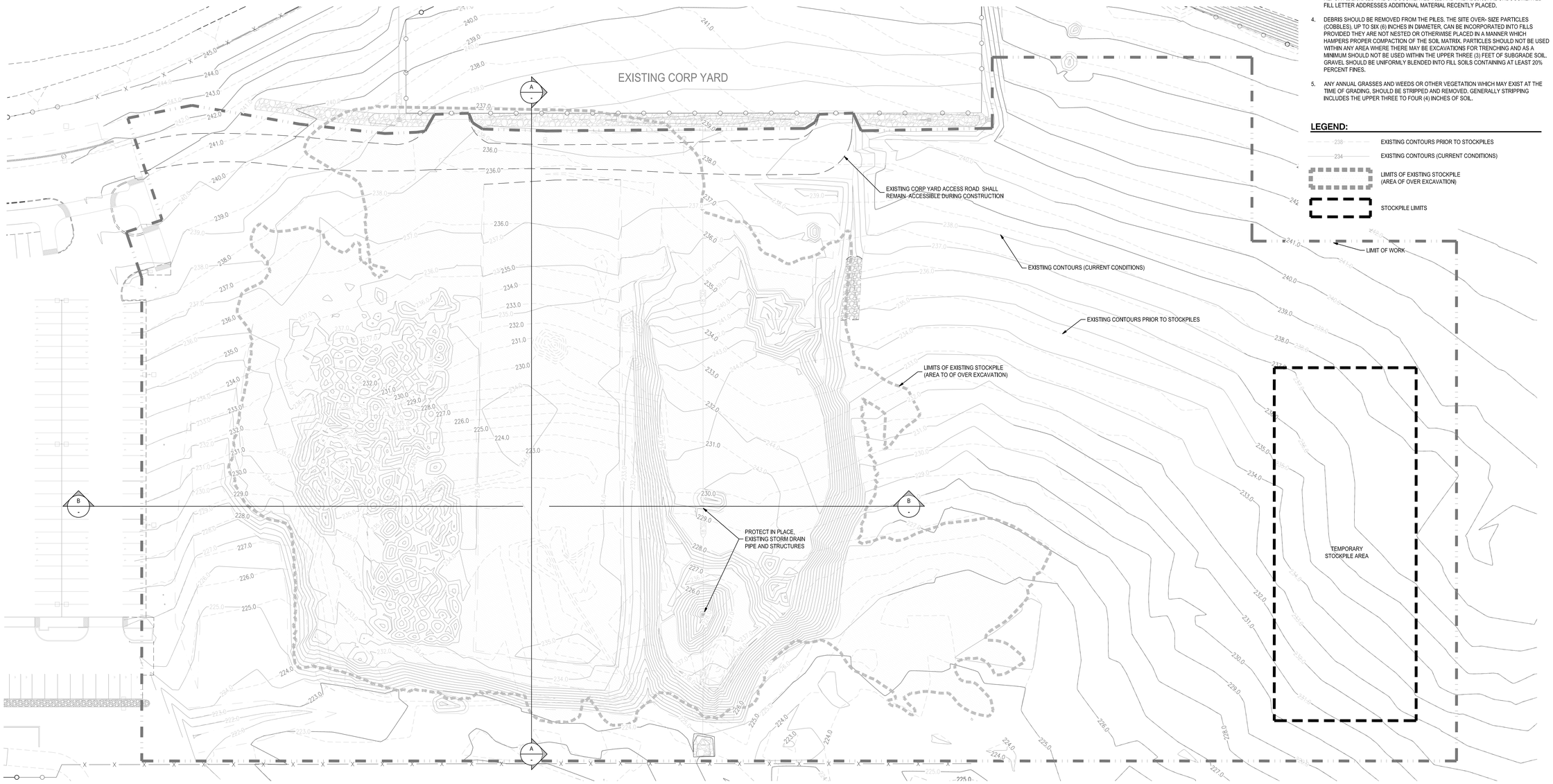
C5.0



NORTH - SOUTH CROSS SECTION A-A
HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=10'



EAST - WEST CROSS SECTION B-B
HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=10'



NOTES:

1. EXISTING CORP YARD ENTRANCE GATES AND ROAD SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION.
2. CONTRACTOR TO REFER TO THE PROJECT GEOTECHNICAL REPORT PREPARED BY KLEINFELDER AS THE ADDITIONAL UNDOCUMENTED FILL LETTER DATED MARCH 9 2016.
3. ALL UNDOCUMENTED FILL IDENTIFIED IN THE GEOTECHNICAL REPORT SHOULD BE OVER EXCAVATED TO EXPOSE ORIGINAL GROUND SURFACE. THE PROJECT GEOTECHNICAL REPORT IDENTIFIES THE UNDOCUMENTED FILL AND THE ADDITIONAL UNDOCUMENTED FILL LETTER ADDRESSES ADDITIONAL MATERIAL RECENTLY PLACED.
4. DEBRIS SHOULD BE REMOVED FROM THE PILES. THE SITE OVER- SIZE PARTICLES (COBBLES), UP TO SIX (6) INCHES IN DIAMETER, CAN BE INCORPORATED INTO FILLS PROVIDED THEY ARE NOT NESTED OR OTHERWISE PLACED IN A MANNER WHICH HAMPERS PROPER COMPACTION OF THE SOIL MATRIX. PARTICLES SHOULD NOT BE USED WITHIN ANY AREA WHERE THERE MAY BE EXCAVATIONS FOR TRENCHING AND AS A MINIMUM SHOULD NOT BE USED WITHIN THE UPPER THREE (3) FEET OF SUBGRADE SOIL. GRAVEL SHOULD BE UNIFORMLY BLENDED INTO FILL SOILS CONTAINING AT LEAST 20% PERCENT FINES.
5. ANY ANNUAL GRASSES AND WEEDS OR OTHER VEGETATION WHICH MAY EXIST AT THE TIME OF GRADING, SHOULD BE STRIPPED AND REMOVED. GENERALLY STRIPPING INCLUDES THE UPPER THREE TO FOUR (4) INCHES OF SOIL.

LEGEND:

- 238 — EXISTING CONTOURS PRIOR TO STOCKPILES
- 234 — EXISTING CONTOURS (CURRENT CONDITIONS)
- LIMITS OF EXISTING STOCKPILE (AREA OF OVER EXCAVATION)
- STOCKPILE LIMITS

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No. 62498
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STATE OF CALIFORNIA

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Drawing Title
EARTHWORK DIAGRAM

Drawing Number:
C5.1

30x42

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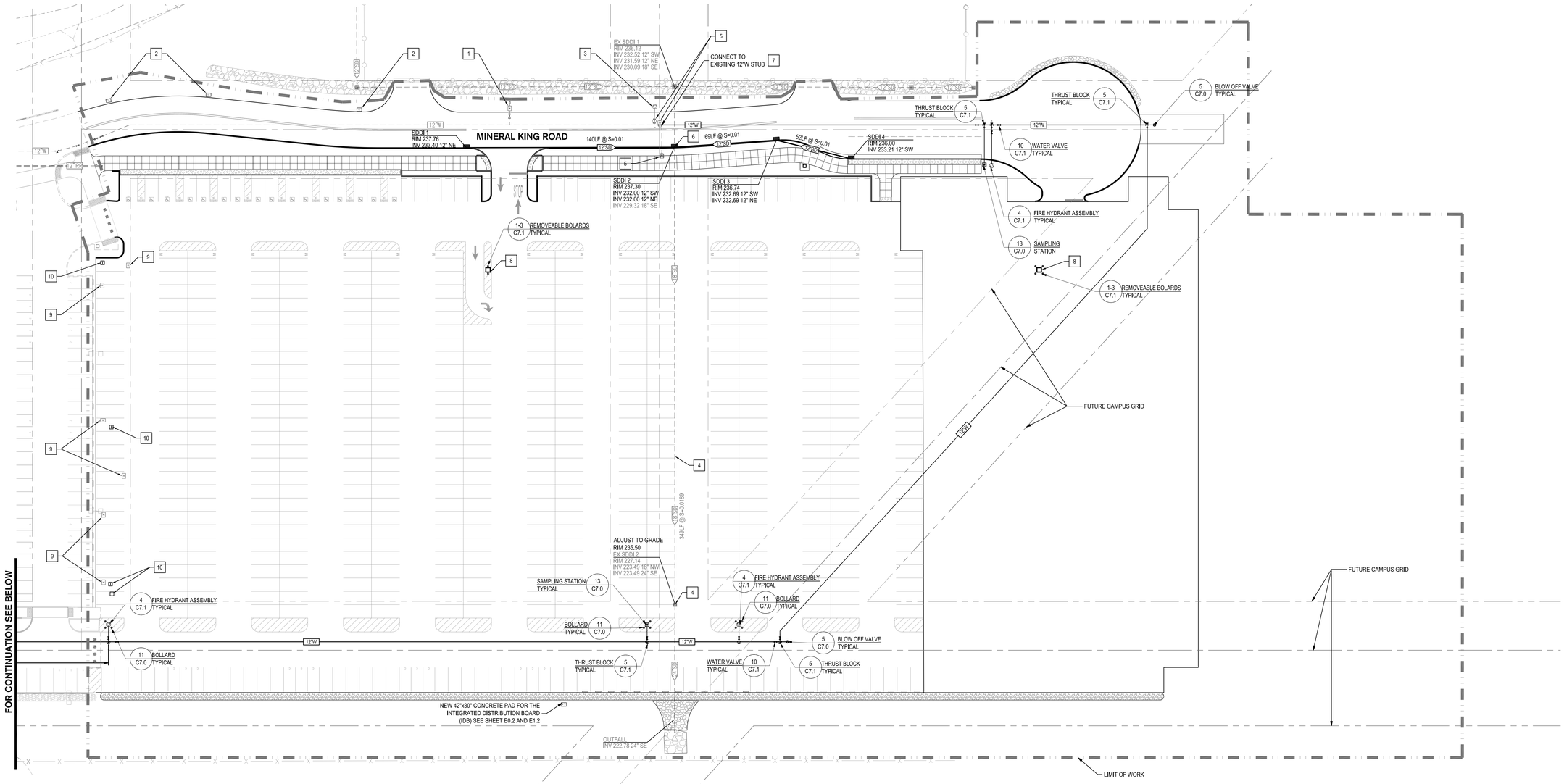

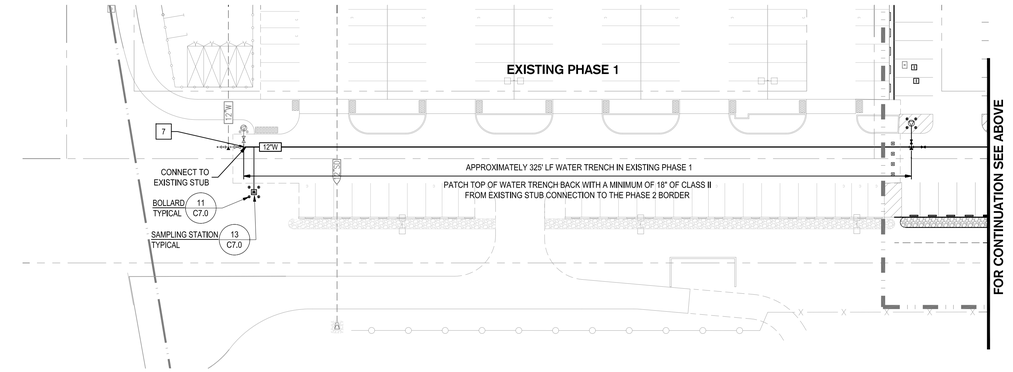

UTILITY KEY NOTES:

1. PROTECT IN PLACE, EXISTING BACKFLOW PREVENTER AND WATER METER.
2. PROTECT IN PLACE, EXISTING ELECTRICAL BOX.
3. PROTECT IN PLACE, EXISTING FIRE HYDRANT.
4. PROTECT IN PLACE, EXISTING STORM DRAIN LINE AND STRUCTURES.
5. EXISTING WATER VALVE TO REMAIN, ADJUST TO FINISHED GRADE.
6. CONNECT TO EXISTING 18" STORM DRAIN LINE.
7. CONNECT TO EXISTING 12" WATER LINE.
8. PAY STATION
9. REMOVE AND REPLACE, EXISTING CONCRETE UTILITY VAULT LID WITH TRAFFIC RATED LID. ADJUST TO UTILITY BOX TO FINISHED GRADE.
10. PROTECT IN PLACE, EXISTING IRRIGATION STUB. INSTALL IRRIGATION STUB IN PULL BOX WITH TRAFFIC RATED LID, SEE DETAIL 6 ON SHEET C7.1. ADJUST TO FINISHED GRADE.

UTILITY LEGEND:

EXISTING		PROPOSED
12"SD	STORM DRAIN LINE	12"SD
4"W	WATER LINE	4"W
6.5"IRR	IRRIGATION LINE	6.5"IRR
	CATCH BASIN	
	STORM DRAIN INLET	
	GATE VALVE	
	FIRE HYDRANT	
E	ELECTRICAL BOX	E
W	WATER METER	W
	MAINTENANCE HOLE	
	IRRIGATION BOX	I

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UTILITY PLAN

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C6.0

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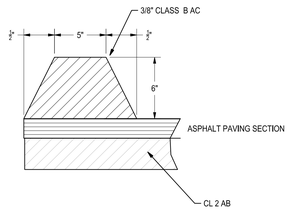
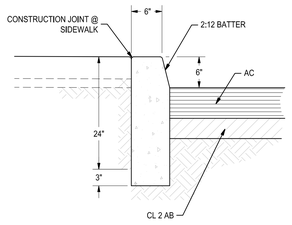
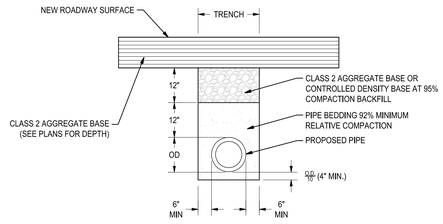


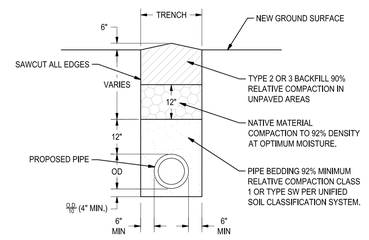
1 6" AC DIKE
NO SCALE



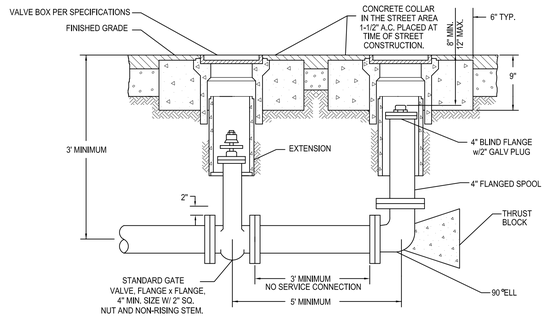
2 UC MERCED STANDARD 6" VERTICAL CURB
NO SCALE



3 TRENCH IN EXISTING AREAS
NO SCALE



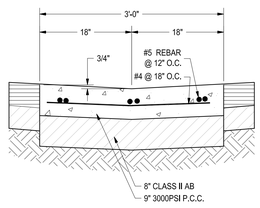
4 TRENCH IN UN-PAVED AREAS
NO SCALE



NOTES:

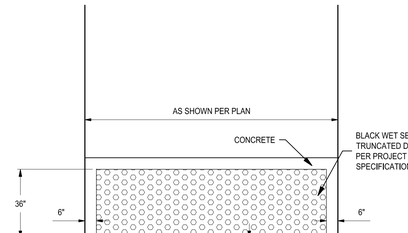
1. UNLESS NOTED OTHERWISE, RESTRAINING GASKETS SHALL BE INSTALLED AT ALL-PUSH-ON JOINT CONNECTIONS.
2. ALL FERROUS METALS SHALL BE COATED WITH BITUMINOUS PIPE COATING AND WRAPPED WITH A DOUBLE LAYER OF 6MIL PLASTIC.
3. DUE TO SPACE LIMITATIONS VALVE SYMBOLS ON THE UTILITY PLAN SHEETS ARE NOT ALWAYS SHOWN IN THEIR CORRECT SCALE LOCATION. LOCATE VALVES AS SHOWN IN THIS DETAIL.

5 BLOW OFF
NO SCALE

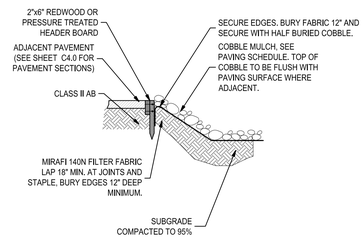


NOTES:
1. CONSTRUCT EXPANSION JOINTS @ 150' C.C. MAXIMUM SPACING.
2. PROVIDE CONTROL JOINTS @ 40' O.C. MAXIMUM SPACING.

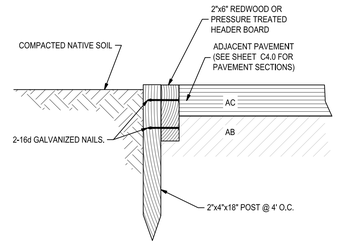
6 3' VALLEY GUTTER
NO SCALE



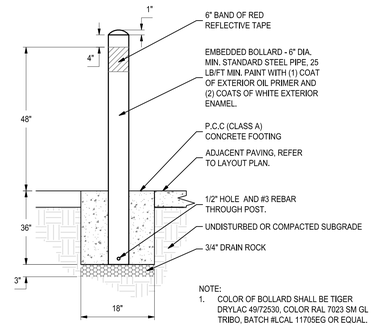
7 TRUNCATED DOME BANDING
NO SCALE



9 COBBLE EROSION PROTECTION
NO SCALE

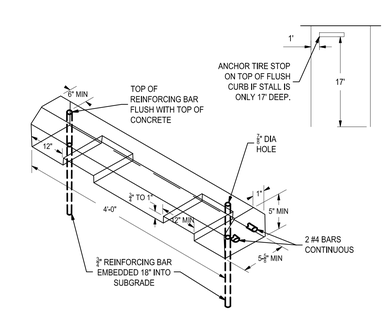


10 REDWOOD HEADER
NO SCALE

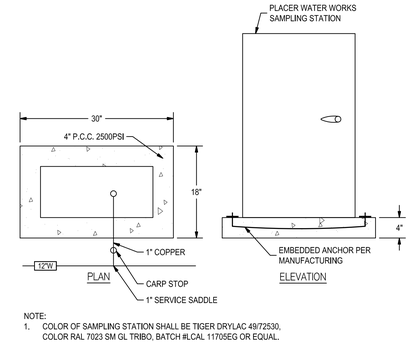


NOTE:
1. COLOR OF BOLLARD SHALL BE TIGER DRYLAC 49/72530, COLOR RAL 7023 SM GL TRIBO, BATCH #LCAL 11705EG OR EQUAL.
2. BOLLARD INSTALLATION MUST BE NFPA

11 STEEL BOLLARD
NO SCALE



12 4' WHEEL STOP
NO SCALE



NOTE:
1. COLOR OF SAMPLING STATION SHALL BE TIGER DRYLAC 49/72530, COLOR RAL 7023 SM GL TRIBO, BATCH #LCAL 11705EG OR EQUAL.

13 SAMPLING STATION
NO SCALE

UC Merced

University of California
Merced, California

Project Name:
North Bowl Parking Phase 2

Project Number:
906550

Engineer:

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3244 Brookside Road, Suite 100
Stockton,California 95219
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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/17
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 04/01/16

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01

AC_____FLS_____SS_____

DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENTS

No.	Description	Issue Date
1	---	---

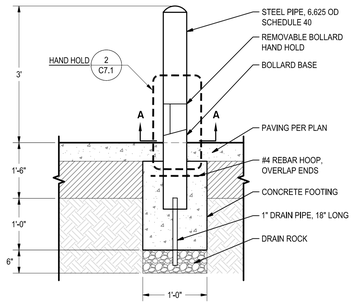
Drawn By: MWK
Revision Date: 3/30/2016
Plot Date: 4/1/2016
Scale:

Key Plan:

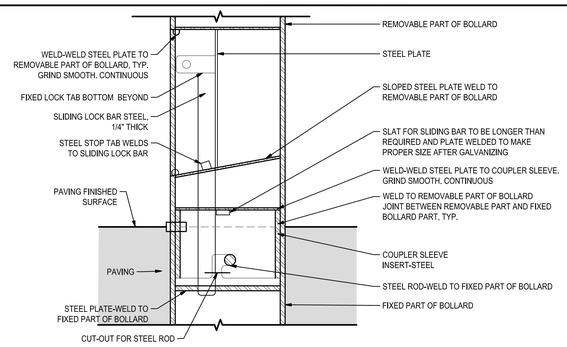
N
0' 15' 30' 60'

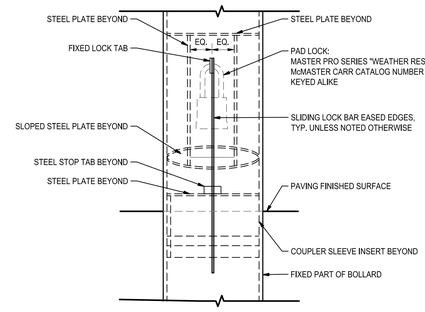
Drawing Title
DETAILS 1

Drawing Number:
C7.0

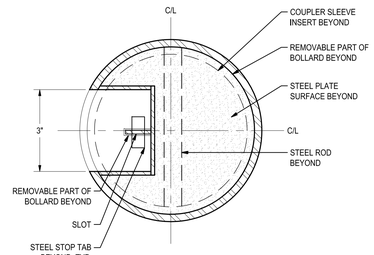


1 REMOVABLE BOLLARD
NO SCALE

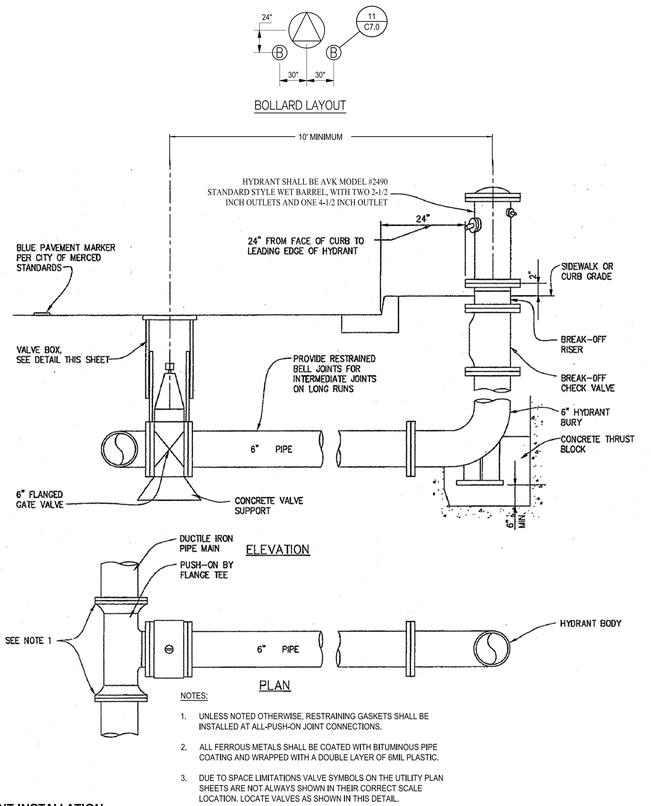




2 HAND HOLE
NO SCALE



3 HAND HOLD SECTION A-A
NO SCALE



NOTES:

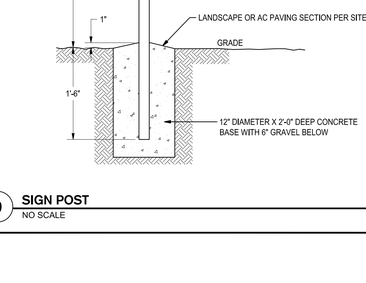
1. UNLESS NOTED OTHERWISE, RESTRAINING GASKETS SHALL BE INSTALLED AT ALL-PUSH-ON JOINT CONNECTIONS.
2. ALL FERROUS METALS SHALL BE COATED WITH BITUMINOUS PIPE COATING AND WRAPPED WITH A DOUBLE LAYER OF 6MIL PLASTIC.
3. DUE TO SPACE LIMITATIONS VALVE SYMBOLS ON THE UTILITY PLAN SHEETS ARE NOT ALWAYS SHOWN IN THEIR CORRECT SCALE LOCATION. LOCATE VALVES AS SHOWN IN THIS DETAIL.

4 FIRE HYDRANT INSTALLATION
NO SCALE

THRUST BLOCK NOTES

1. PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL.
2. INSPECTIONS ARE REQUIRED 1) PRIOR TO POURING THRUST BLOCKS, 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH. SCHEDULE ALL INSPECTIONS 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A REINSPECTION FEE. CALL THE LOCAL DEPUTY FIRE MARSHAL FOR INSPECTION SCHEDULING.
3. INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2002 NFPA 13 AND 2002 NFPA 24.
4. PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ONE 2 ½" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH THE NATIONAL STANDARD THREADS (NST).
5. FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER. THE LOWEST OPERATING NUT SHALL BE A MINIMUM OF 18" ABOVE GRADE AND THE HYDRANT FLANGE SHALL BE A MINIMUM OF 2" ABOVE GRADE.
6. FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. A KEYED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS.
7. ALL PIPE SHALL BE APPROVED FOR USE IN FIRE SERVICE SYSTEMS (CLASS 150 MINIMUM). CLASS 200 PIPE SHALL BE USED WEN THE PRESSURE MAY EXCEED 150 PSI.
8. ALL FERROUS PIPE AND FITTINGS SHALL BE PROTECTED WITH A LOOSE 8-MIL POLYETHYLENE TUBE. THE ENDS OF THE TUBE AND ANY SPLICES MADE FOR "T"S OR OTHER PIPING COMPONENTS SHALL BE SEALED WITH 2" TAPE, APPROVED FOR UNDERGROUND USE. ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER ASSEMBLY AND PRIOR TO POLY-TUBE INSTALLATION.
9. A 12" BED OF CLEAN FILL SAND SHALL BE PROVIDED BELOW AND ABOVE THE PIPE (TOTAL 24").
10. ALL BOLTS USED FOR UNDERGROUND CONNECTIONS SHALL BE 316 STAINLESS STEEL.
11. A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE TOP OF THE PIPE, SHALL BE PROVIDED. WHEN SURFACE LOADS ARE EXPECTED, A MINIMUM 36" COVER SHALL BE PROVIDED.
12. THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER POPE CHANGES DIRECTION.
13. THE TRENCH SHALL BE EXCAVATED FOR THRUST BLOCKS AND INSPECTED PRIOR TO POUR. ALL CORROSION PROTECTION SHALL BE IN PLACE.
14. HYDROSTATIC SYSTEM TEST AT 200PSI FOR TWO HOURS PER DCFM. THE TRENCH SHALL BE BACK-FILLED BETWEEN JOINTS TO PREVENT MOVEMENT OF PIPE.
15. THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM 4" HOSE OR PIPE UNLESS OTHERWISE APPROVED BY THE DEPUTY FIRE MARSHAL. A DEPUTY STATE FIRE MARSHAL SHALL WITNESS THE FLUSH.
16. PRIVATE HYDRANTS, SPRINKLER CONTROL VALVES, DETECTOR CHECK ASSEMBLIES, POST INDICATING VALVES AND FIRE DEPARTMENT CONNECTIONS SHALL BE PAINTED OSHA RED.
17. ALL CONTROL VALVES SHALL BE LOCK IN THE OPEN POSITION. VALVES SHALL BE MONITORED IF THE SERVE 100 OR MORE SPRINKLER HEADS.

NOTES FOR THRUST BLOCK RESTRAINTS



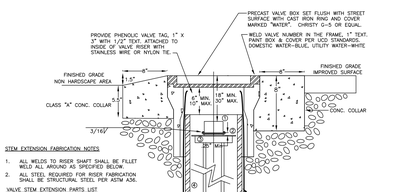
THRUST BLOCK BEARING AREA IN SQUARE FEET

PIPE SIZE	CONDITION							
	I	II	III	IV	V	VI	VII	VIII
<6"	2.0	2.9	2.0	2@2.0	2@2.0	4@1.6	2.0	2@1.6
6"	4.3	4.0	4.3	2@4.3	2@4.3	4@3.3	4.3	2@3.3
8"	7.4	10.6	7.4	2@7.4	2@7.4	4@5.7	7.4	2@5.7
10"	12.1	17.1	12.1	2@12.1	2@12.1	4@9.3	12.1	2@9.3
12"	17.2	24.1	17.2	2@17.2	2@17.2	4@13.2	17.2	2@13.2

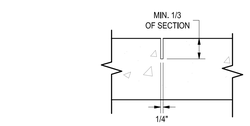
NOTES

1. THRUST BLOCK AREA BASED ON 225 PSI AND 2,000 PSF SOIL PRESSURE WITH 2½ FEET OF COVER MINIMUM.
2. THRUST BLOCK BEARING FACES SHALL BE PLACED AGAINST UNDISTURBED SOIL, APPROVED COMPACTED BACKFILL, OR CLASS 100-E-100 SLURRY.
3. THRUST BLOCKS SHALL BE CLASS 560-C-3250 CONCRETE, UNLESS SPECIFIED OTHERWISE.
4. TO FACILITATE FUTURE REMOVAL OF THRUST BLOCKS AND LINE EXTENSION USE CARDBOARD SEPARATORS BETWEEN BLOCKS, IF NEEDED.

5 THRUST BLOCK
NO SCALE



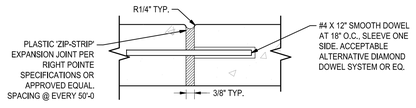
6 PULL BOX
NO SCALE



NOTES:

A. CONCRETE REINFORCING INTERRUPTED AT EXPANSION JOINTS.
B. DOWELS REQUIRED AT ALL EXPANSION JOINTS AND BETWEEN ALL SEPARATE POURS.
C. SEALANT TO MATCH CONCRETE COLOR.
D. DOWELED CONSTRUCTION JOINT REQUIRED WHERE CONNECTING TO EXISTING SIDEWALK
E. REFER TO PLANS, SPECIFICATIONS, OR GEOTECHNICAL REPORT FOR OVERALL SECTION.

7 SAW CUT JOINT
NO SCALE



EXPANSION JOINT

NOTES:

A. CONCRETE REINFORCING INTERRUPTED AT EXPANSION JOINTS.
B. DOWELS REQUIRED AT ALL EXPANSION JOINTS AND BETWEEN ALL SEPARATE POURS.
C. SEALANT TO MATCH CONCRETE COLOR.
D. DOWELED CONSTRUCTION JOINT REQUIRED WHERE MOWBAND IS ADJACENT EX. PAVING.
E. REFER TO PLANS, SPECIFICATIONS, OR GEOTECHNICAL REPORT FOR OVERALL SECTION.

8 EXPANSION JOINT
NO SCALE

9 SIGN POST
NO SCALE

10 WATER VALVE AND VALVE BOX
NO SCALE

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University of California
Merced, California

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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/17 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 04/01/16

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Drawing Stage:
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No.	Description	Issue Date
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Drawn By: MWK
Revision Date: 3/30/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

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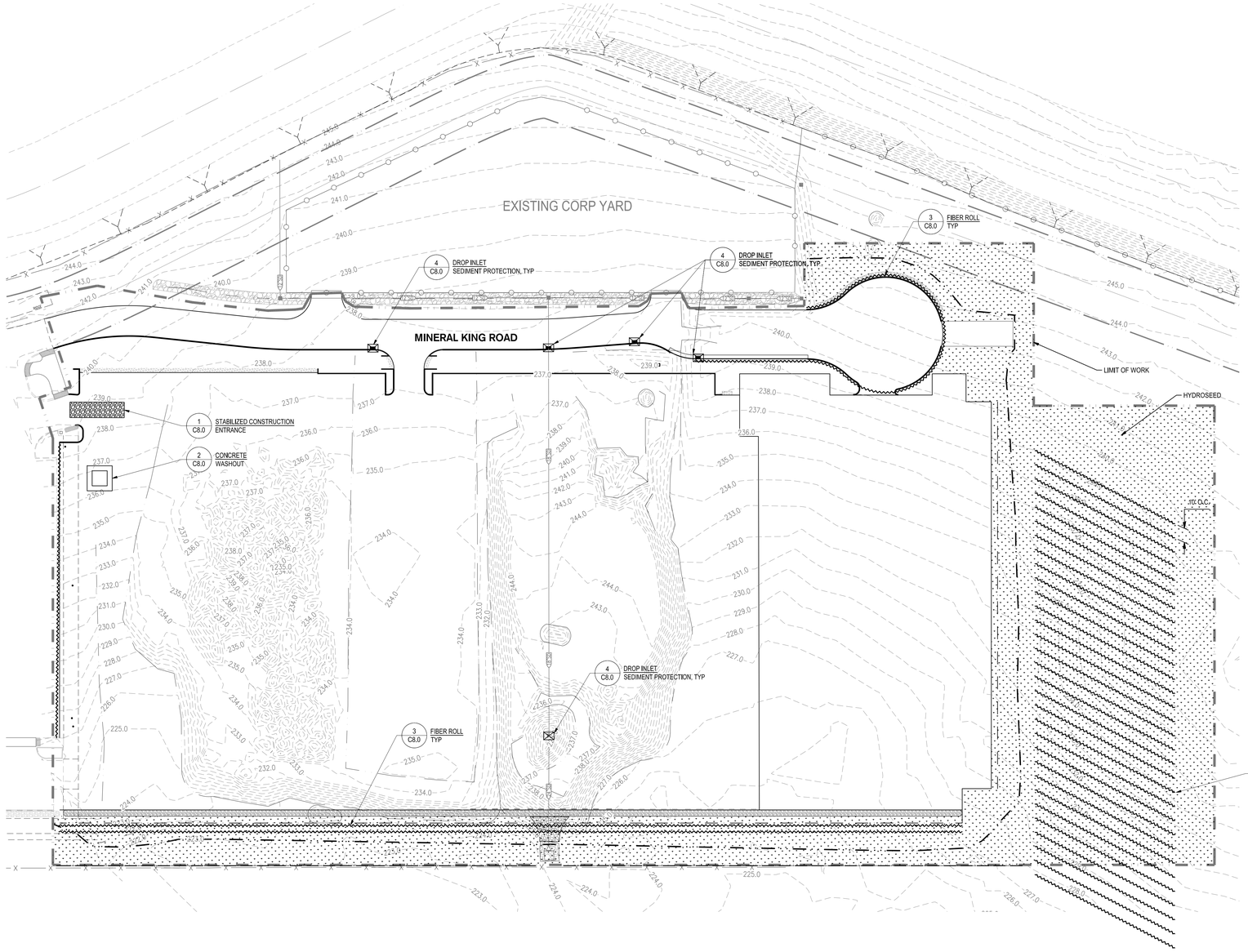
0' 15' 30' 60'

Drawing Title
DETAILS 2

Drawing Number:
C7.1



EROSION CONTROL GENERAL NOTES

1. PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL OFFSETS. THE SITE IS DYNAMIC AND CHANGES ON A DAILY BASIS, CHANGES SHOULD BE MADE ACCORDING TO EXISTING CONDITIONS. BECAUSE IT IS IMPOSSIBLE TO PREDICT ALL POSSIBLE SITUATIONS, CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO ENSURE QUALITY CONTROL.
2. IT IS THE CONTRACTORS SOLE RESPONSIBILITY FOR CONDUCTING HIS/HER OPERTATIONS IN ADHERANCE TO THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES, DELAYS, AND/OR DAMAGES RESULTING FROM ANY STATE WATER QUALITY CONTROL BOARD SANCTIONS CAUSED BY THE OPERATION OF THE CONTRACTOR OF HIS/HER SUBCONTRACTORS.
3. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW THESE PLANS FOR BIDDING ONLY. IF MODIFICATION IS NECESSARY, A SWPPP PLAN MUST BE DONE, THIS MAY REQUIRE MODIFICATION TO THESE DRAWINGS.
4. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM PAVEMENT OF ROAD.
5. PERIMETER PROTECTION-ALL UNCOMPLETED SIDEWALK, CURB & GUTTER AREAS AND THE FIRST TWENTY FIVE FEET (FROM BACK OF SIDEWALK) OF ROADSIDE LOT PERIMETERS OF FINISHED PADS ARE TO BE PROTECTED WITH AN APPLICATION OF BLOWN STRAW AND ORGANIC BINDER.

   HYDROSEED MIX:

   SEED VARIETIES AND QUANTITIES SHALL BE PREMIXED AND PACKAGED BY A COMMERCIAL SEED SUPPLIER IN BAGS OR CONTAINERS CLEARLY LABELED TO SHOW THE NAME AND ADDRESS OF THE SUPPLIER, THE SEED NAMES, THE LOT NUMBER, NET WEIGHT, THE PERCENT OF WEED SEED CONTENT AND THE GUARANTEED PERCENTAGE OF PURITY AND GERMINATION.

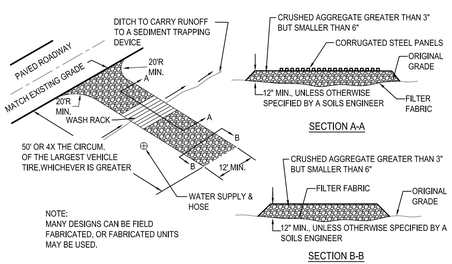
   PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCES FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PROPORTIONS AS SPECIFIED:

   VULPIA MICROSTACHYS AT 20 POUNDS/ ACRE
   TRIFOLIUM WILDENOVII AT 6 POUNDS PER ACRE
   LUPINUS NANUS AT 4 POUNDS PER *AC RE*
   ESCHSCHOLTZIA CALIFORNICA AT 5 POUNDS PER ACRE
   ACHI LLEA MILLEFOLIUM AT 4 POUNDS PER ACRE
   HORDEUM BRACHYANTHERUM AT 15 POUNDS PER ACRE
   CALIFORNIA BROME AT 10 POUNDS PER ACRE

   APPLICATION METHOD AS FOLLOWS:
   SEED AT 64 POUNDS PER ACRE
   5-3-2 FERTILIZER AT 900 LBS PER ACRE
   NATURESOWN EVOLUTION AT 2300 LBS PER ACRE
   PLANTAGO TACKIFIER AT 50 LBS PER ACRE
6. ALTERNATE INLET PROTECTION SHALL BE USED ON ROADS OPEN TO THE PUBLIC IF ANY HAZARDOUS MATERIALS OR WASTES WHICH HAVE BEEN TREATED, STORED, DISPOSED, SPILLED, OR LEAKED IN SIGNIFICANT QUANTITIES ONTO THE CONSTRUCTION SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THEM FROM THE SITE AND DISPOSE OF PROPERLY.
7. THE CONTRACTOR SHALL KEEP MAINTENANCE, INSPECTION, AND REPAIR PROCEDURES TO ENSURE THAT ALL GRADED SURFACES, WALLS, BERMS, DRAINAGE STRUCTURES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER CONTROLS ARE MAINTAINED IN GOOD AND EFFECTIVE CONDITION AND ARE PROMPTLY REPAIRED OR RESTORED WHEN NECESSARY. ANY DEWATERING WATER SHALL NOT BE DISCHARGED DIRECTLY INTO THE STORM WATER SYSTEM, AND SHALL NOT BE DISCHARGED INTO THE SEWER SYSTEM.
8. PAVEMENT CLEANING- FLUSHING OF STREETS/ PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT.

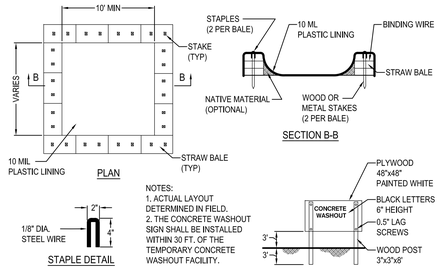
EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	FIBER ROLLED WATTLE, SEE DETAIL 3 THIS SHEET
	DRAIN INLET FILTER BAG, SEE DETAIL 4 THIS SHEET
	HYDROSEED
	STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 1 THIS SHEET
	CONCRETE WASHOUT, SEE DETAIL 2 THIS SHEET



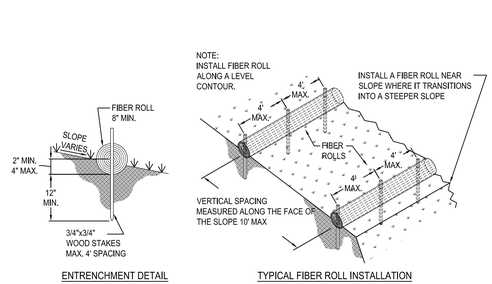
NOTE:
MANY DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED.

1 STABILIZED CONSTRUCTION ENTRANCE/OUTLET TIRE WASH
NO SCALE



NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

2 CONCRETE WASHOUT
NO SCALE



3 FIBER ROLLS
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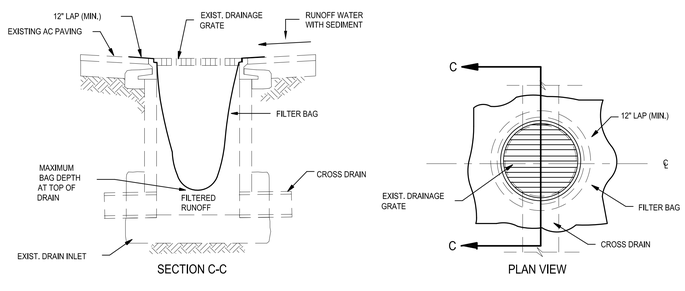

TEMPORARY GRAVEL BAG FILTER AT DROP INLET

4 DROP INLET SEDIMENT PROTECTION
NO SCALE

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Revision Date:	3/30/2016
Plot Date:	4/1/2016
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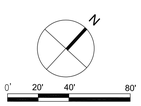
Key Plan:



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EROSION & SEDIMENT CONTROL PLAN

Drawing Number:
C8.0

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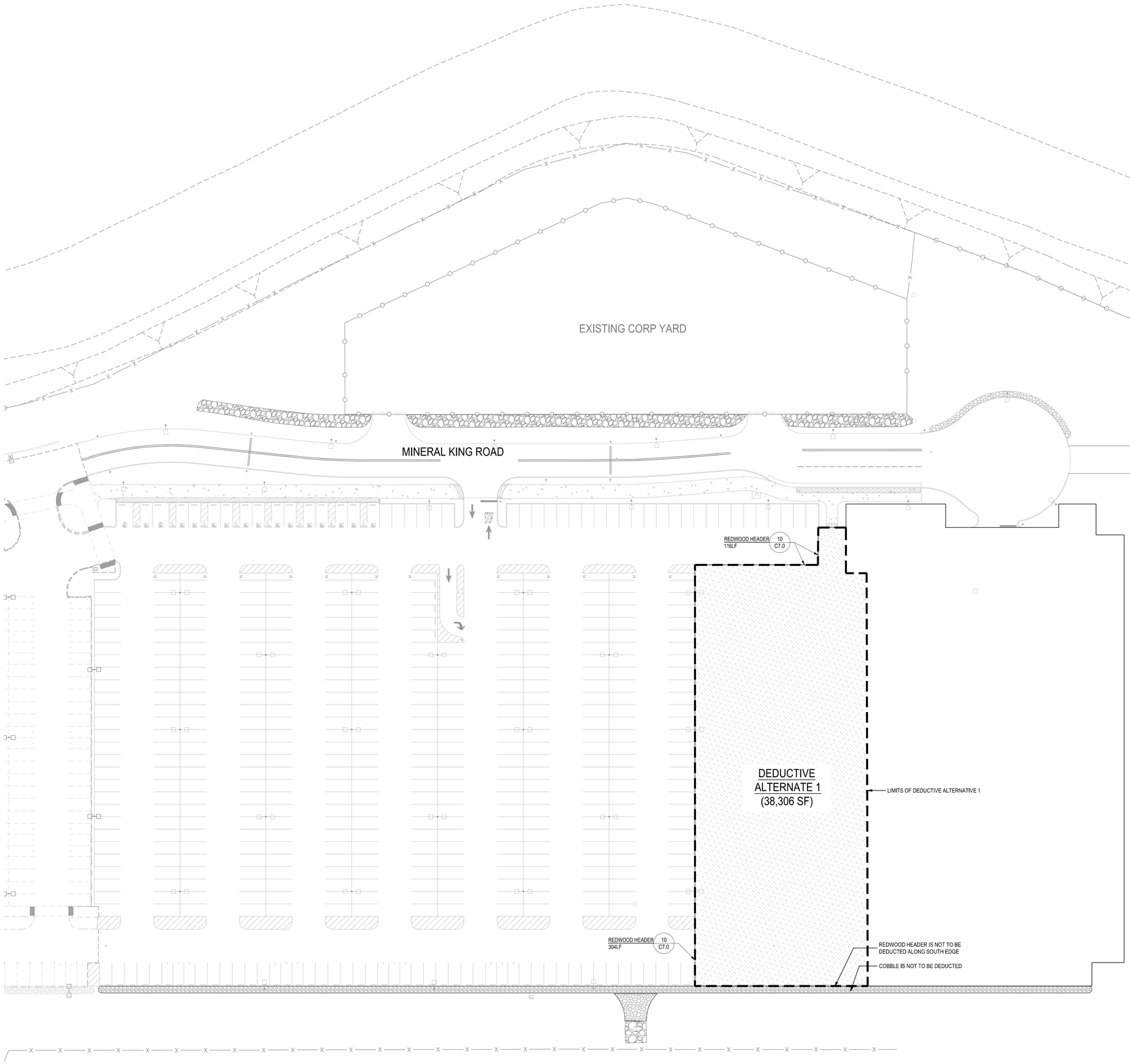

LEGEND

GRAVEL PARKING
1" OF 3/4" GRAVEL OVER 6" CLASS II AB OVER 12" NATIVE SOIL SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER THE PROJECT SOILS REPORT.

LIMITS OF DEDUCTIVE ALTERNATIVE 1

IN THE AREA OF DEDUCTIVE ALTERNATIVE 1, DEDUCT THE FOLLOWING:

- ALL LIGHTS, INCLUDING THE UNDERGROUND LIGHTING CONDUITS, PULL BOXES AND CONDUCTORS.
- REDWOOD HEADER ALONG THE EAST SIDE OF THE DEDUCTIVE AREA
- ALL ASPHALT PAVING AND AGGREGATE BASE PER LIGHT DUTY AC PAVEMENT SECTION AS DESCRIBED BELOW:

  2.5" AC OVER 11.0" CLASS II AB MOISTURE CONDITIONED TO AT LEAST OPTIMUM AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION OVER 12" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, RELATIVE COMPACTION.

IN THE AREA OF DEDUCTIVE ALTERNATIVE 1, REPLACE THE DEDUCTED ITEMS WITH THE FOLLOWING:

- 1" OF 3/4" ROCK OVER 6" CLASS II AB OVER 12" NATIVE SOIL SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER THE PROJECT SOILS REPORT AND PROJECT SPECIFICATIONS
- REDWOOD HEADER ALONG THE EASTERN AND NORTHERN LIMIT OF THE PAVEMENT SHOWN ON THIS SHEET

THE SCOPE IN C6.0 UTILITIES PLAN WILL REMAIN AS DESIGNED AND IS NOT PART OF THE "DEDUCTIVE ALTERNATE 1".

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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/17
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/31/16

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01

AC_____FLS_____SS_____

DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENTS

No.	Description	Issue Date
1	---	---

Drawn By:	MWK
Revision Date:	3/30/2016
Plot Date:	3/31/2016
Scale:	1" = 30'

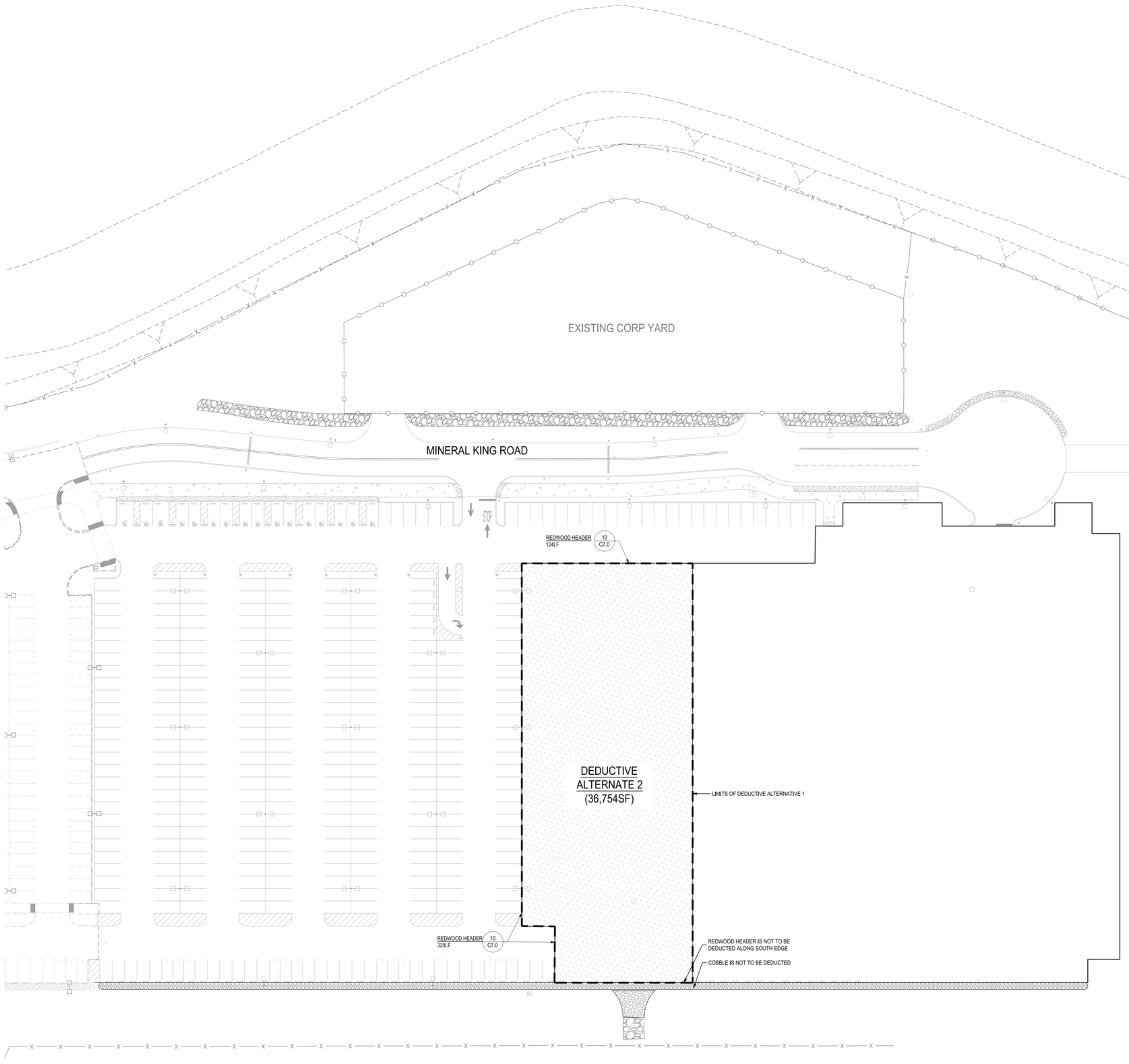
Key Plan:

N

0' 15' 30' 60'

Drawing Title
INSTRUCTIONS FOR THE DEDUCTIVE ALTERNATE 1

Drawing Number:
C9.0



LEGEND

GRAVEL PARKING
1" OF 3/4" GRAVEL OVER 6" CLASS II AB OVER 12" NATIVE SOIL SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER THE PROJECT SOILS REPORT.

LIMITS OF DEDUCTIVE ALTERNATIVE 2

IN THE AREA OF DEDUCTIVE ALTERNATIVE 2, DEDUCT THE FOLLOWING:

- ALL LIGHTS, LIGHT BASE AND CONDUCTORS.
- REDWOOD HEADER ALONG THE EAST SIDE OF THE DEDUCTIVE AREA
- ALL ASPHALT PAVING AND AGGREGATE BASE PER LIGHT DUTY AC PAVEMENT SECTION AS DESCRIBED BELOW:

  2.5" AC OVER 11.0" CLASS II AB MOISTURE CONDITIONED TO AT LEAST OPTIMUM AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION OVER 12" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, RELATIVE COMPACTION.

IN THE AREA OF DEDUCTIVE ALTERNATIVE 2, REPLACE THE DEDUCTED ITEMS WITH THE FOLLOWING:

- 1" OF 3/4" ROCK OVER 6" CLASS II AB OVER 12" NATIVE SOIL SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER THE PROJECT SOILS REPORT AND PROJECT SPECIFICATIONS
- REDWOOD HEADER ALONG THE EASTERN AND NORTHERN LIMIT OF THE PAVEMENT SHOWN ON THIS SHEET

THE SCOPE IN C6.0 UTILITIES PLAN WILL REMAIN AS DESIGNED AND IS NOT PART OF THE "DEDUCTIVE ALTERNATE 2".

THE LIGHTING ROUGH-IN (LIGHT CONDUITS AND PULL BOXES) IS NOT PART OF "DEDUCTIVE ALTERNATIVE 2".

UC Merced

University of California
Merced, California

Project Name:
North Bowl Parking Phase 2

Project Number:
906550

Engineer:

SIEGFRIED

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100% CONSTRUCTION DOCUMENTS

No.	Description	Issue Date
1	---	---

Drawn By:	MWK
Revision Date:	3/30/2016
Plot Date:	3/31/2016
Scale:	1"=30'

Key Plan:

N

0' 15' 30' 60'

Drawing Title
INSTRUCTIONS FOR THE DEDUCTIVE ALTERNATE 2

Drawing Number:
C9.1

30x42

File Name: F:\12cad\12116 UCM North Bowl Phase 2\Improvement Plans\12116-C09.1-ALTERNATES.dwg -- 03/31/16

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
(N)	NEW
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CU	COPPER
DIA	DIAMETER
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HOA	HAND OFF AUTO
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OSP	OUTSIDE PLANT
PH	PHASE
PR	PAIR
TM	THERMAL MAGNETIC
UL	UNDERWRITERS LABORATORIES
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE
WP	WEATHERPROOF

Connections / Equipment

- CONTACTOR COIL
- RELAY

General

- NEW WORK
- KEYED NOTE

Lighting

- AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE

Miscellaneous

- CIRCUIT BREAKER
- GROUNDING POINT

Raceways

- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- Px — PULLBOX, Px TAG INDICATES PULLBOX SIZE, SEE UNDERGROUND CONCRETE PULLBOX SCHEDULE

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  - A = ABOVE COUNTER
  - B = CLOCK HANGER
  - C = FLUSH CEILING MOUNTED
  - E = EMERGENCY
  - F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  - G = GROUND FAULT CIRCUIT INTERRUPTER
  - H = HOSPITAL GRADE
  - K = CHILD RESISTANT COVER
  - L = ISOLATED GROUND
  - P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  - S = SPLIT WIRED
  - T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  - W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
  - ? = DESIGNER DEFINED

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	LAMPS	WATTS	LUMENS	COLOR	MOUNTING	NOTES
RS1	SINGLE POLE MOUNTED LED AREA LIGHT, TYPE III MEDIUM DISTRIBUTION FOR ROADWAY WITH FLUSH CONCRETE BASE	CREE ARE EDG 3M DA 06 E UL SV 700 40K F	LED	133	12021	4000K	POLE	1,2,4
RS2	SINGLE POLE MOUNTED LED AREA LIGHT, TYPE V MEDIUM DISTRIBUTION FOR PARKING LOT WITH RAISED CONCRETE BASE	CREE ARE EDG 5M DA 06 E UL SV 700 40K F	LED	133	12021	4000K	POLE	1,3,4
RS3	SINGLE POLE MOUNTED LED AREA LIGHT, TYPE V MEDIUM DISTRIBUTION FOR PARKING LOT WITH FLUSH CONCRETE BASE	CREE ARE EDG 5M DA 06 E UL SV 700 40K F	LED	133	12021	4000K	POLE	1,2,4
PS1	SINGLE POLE MOUNTED LED AREA LIGHT, TYPE V MEDIUM DISTRIBUTION FOR PARKING LOT WITH RAISED CONCRETE BASE & MOTION SENSOR	CREE ARE EDG 5M DA 06 E UL SV 700 40K PML2 F	LED	133	12021	4000K	POLE	1,3,4
PS2	TWIN POLE MOUNTED LED AREA LIGHT, TYPE V MEDIUM DISTRIBUTION FOR PARKING LOT WITH RAISED CONCRETE BASE & MOTION SENSOR	CREE ARE EDG 5M DA 06 E UL SV 700 40K PML2 F	LED	133	12021	4000K	POLE	1,3,4

NOTES:

1. FIELD VERIFY AND MATCH EXISTING FIXTURE & POLE COLORS LOCATED IN NORTH BOWL PARKING PHASE 1
2. POLE: NAFCO INTERNATIONAL - RSS25-505C.
3. POLE: NAFCO INTERNATIONAL - RSS22-505C.
4. PROVIDE NAFCO INTERNATIONAL VIBRATION DAMPENER

GENERAL NOTES:

A. THIS LIGHTING SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING ELECTRICAL SPECIFICATIONS.

B. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.

C. PROVIDE SUBMITTALS THAT INCLUDE LIGHTING FIXTURE, LEDS, AND DRIVER INFORMATION FOR EACH FIXTURE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.

D. PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 COMMISSIONING REQUIREMENTS.

DRAWING INDEX

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UC Merced
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Project Name:
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MERCED IRRIGATION DISTRICT REVIEWED
Final approval is subject to field inspection.

Reviewed By:_____

Date:_____

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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE W. SIEGFRIED
No. 11308
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: 4/1/16

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

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DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENT

No.	Description	Issue Date
1	---	---

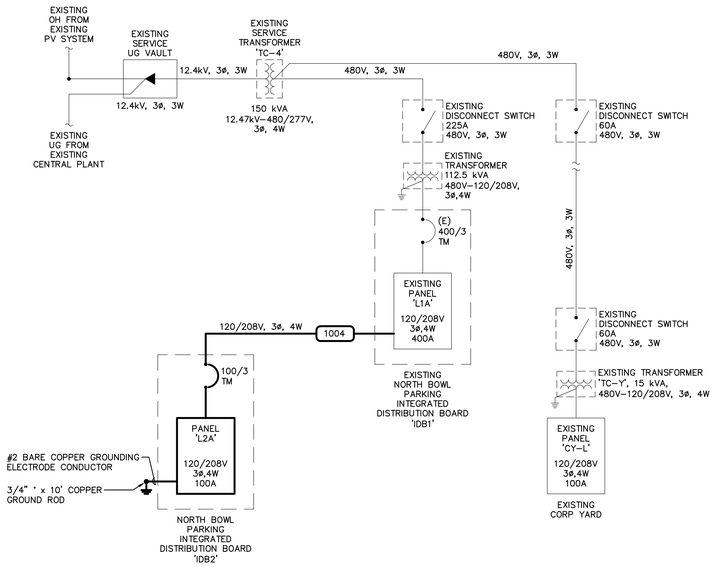
Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
ELECTRICAL SYMBOL LIST, LIGHTING FIXTURE SCHEDULE & SHEET INDEX

Drawing Number:
E0.1

30x42

File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Elec\15044E0.1.dwg --- 04/01/16



1 ONE-LINE DIAGRAM - POWER DISTRIBUTION

NO SCALE

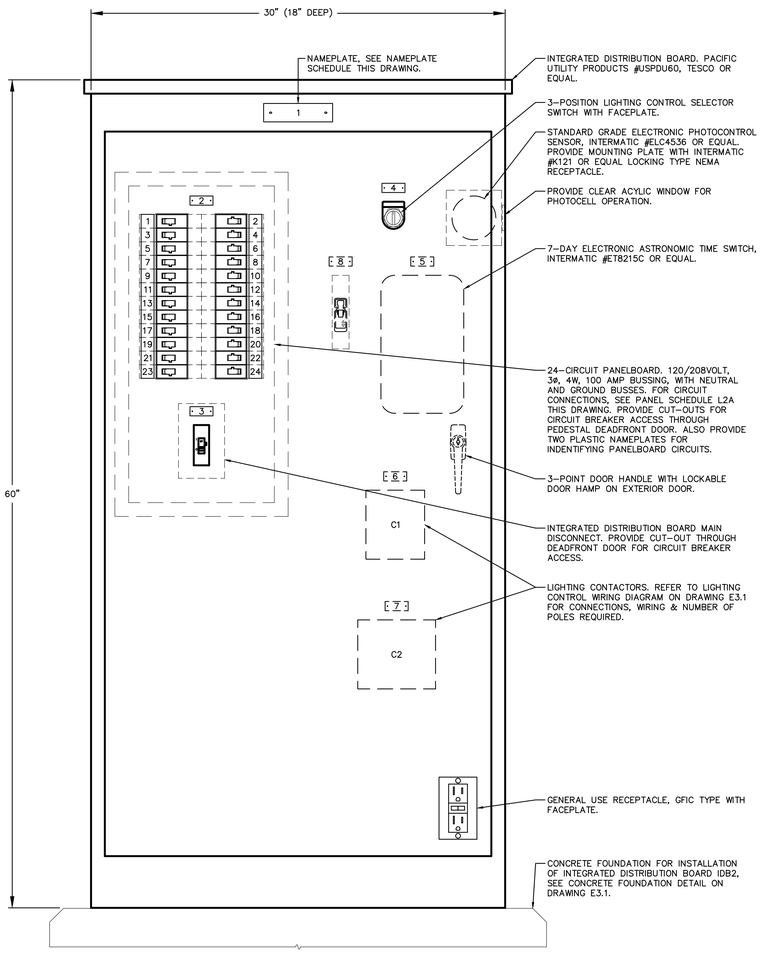
FEEDER SCHEDULE

100	ONE 1-1/2" CONDUIT WITH (1) PULLROPE.
200	TWO 1-1/2" CONDUITS WITH (1) PULLROPE EACH.
302	ONE 1" CONDUIT WITH (2) #8 CU & (1) #8 CU GND.
304	ONE 1" CONDUIT WITH (4) #8 CU & (1) #8 CU GND.
306	ONE 1" CONDUIT WITH (6) #8 CU & (1) #8 CU GND.
402	ONE 1-1/2" CONDUIT WITH (2) #8 CU & (1) #8 CU GND.
404	ONE 1-1/2" CONDUIT WITH (4) #8 CU GND & (1) #8 CU GND.
410	ONE 1-1/2" CONDUIT WITH (10) #8 CU & (1) #8 CU GND.
412	ONE 1-1/2" CONDUIT WITH (12) #8 CU & (1) #8 CU GND.
1004	ONE 2-1/2" CONDUIT WITH (4) #4/0 CU & (1) #2 CU GND

LOAD CALCULATION
SERVICE TRANSFORMER 'TC-4'

EXISTING NORTH BOWL PARKING PHASE 1	=	14.2	kVA
EXISTING CORP YARD	=	15.0	kVA
NEW NORTH BOWL PARKING PHASE 2	=	9.8	kVA
FUTURE NORTH BOWL PARKING	=	1.2	kVA
TOTAL	=	40.2	kVA

SERVICE VOLTAGE: 480, 3ø
40.2 kVA / 0.8313 = 48.4 AMPS



2 INTEGRATED DISTRIBUTION BOARD IDB2 ELEVATION

NO SCALE (EXTERIOR DOOR NOT SHOWN FOR CLARITY)

NAMEPLATE SCHEDULE

NO.	INSCRIPTION
1	PANEL IDB2 120/208V, 3PH, 4W FED FROM PANEL IDB1
2	PANEL L2A
3	MAIN DISCONNECT
4	LIGHTING CONTROLS HAND-OFF-AUTO
5	TIME CLOCK TC-1
6	LIGHTING CONTACTOR LC-1
7	LIGHTING CONTACTOR LC-2
8	LIGHTING CONTROLS

SHEET KEYNOTES

1 REMOVE EXISTING CIRCUIT BREAKER AND RETURN TO UC MERCED.

2 PROVIDE AND INSTALL NEW CIRCUIT BREAKER SHOWN.

EXISTING

NORTH BOWL PARKING PHASE 1

PANEL: L1A		ENCLOSURE: IDB1					AIC: 22,000	
VOLTAGE: 208Y/120V 3PH 4W		MOUNTING: PANEL					MAIN: 400A BUS, 400A CB	
LOAD	VA	BKR	CIR	PH	CIR	BKR	VA	LOAD
CAR CHARGE STATION	1900	20/1	1	A	2	30/2		SPARE
CAR CHARGE STATION	1900	20/1	3	B	4	--		"
SPARE		30/2	5	C	6	30/2		SPARE
"		--	7	A	8	--		"
BLUE LT PHONE	100	20/1	9	B	10	20/2	1005	NITE LIGHTING
SERVICE YARD RECEPTACLE	180	20/1	11	C	12	--	1005	" "
PEDESTRIAN LIGHTING	737	20/2	13	A	14	20/2	804	PARKING LOT LIGHTING
" "	737	--	15	B	16	--	804	" " "
STREET LIGHTING	201	20/2	17	C	18	20/1	10	TIME CLOCK
" "	201	--	19	A	20	30/2		SPARE
STREET LIGHTING	201	20/2	21	B	22	--		"
" "	201	--	23	C	24	20/1		SPARE
SPARE		20/1	25	A	26	20/1	180	IDB1 RECEPTACLE
CAR CHARGE STATION	1900	20/1	27	B	28	20/1		SPARE
SPARE		20/2	29	C	30	20/1		"
"		--	31	A	32	20/1	1900	CAR CHARGE STATION
SPARE		20/2	33	B	34	20/1		SPARE
"		--	35	C	36	20/1		SPARE
SPARE		20/1	37	A	38	**100/3**	**3991**	**PANEL L2A** (1)(2)
PAY STATION	200	20/1	39	B	40	--	**3492**	" " (2)
SPARE		20/1	41	C	42	--	**3525**	" " (2)
KVA FOR PHASE A	9.71						80.9	AMPERES
KVA FOR PHASE B	10.34						86.2	AMPERES
KVA FOR PHASE C	5.12						42.7	AMPERES
TOTAL KVA	25.17							

LOADS SHOWN IN LIGHT LINE WEIGHT ARE EXISTING

NEW

NORTH BOWL PARKING PHASE 2

PANEL: L2A		ENCLOSURE: IDB2					AIC: 22,000	
VOLTAGE: 208Y/120V 3PH 4W		MOUNTING: PANEL					MAIN: 100A BUS, 100A CB	
	LOAD	VA	BKR	CIR	PH	CIR	BKR	VA	LOAD
*	PARKING LIGHTING	1530	20/2	1	A	2	20/2	399	ROADWAY LIGHTING
*	" "	1530	--	3	B	4	--	399	" "
*	PARKING LIGHTING	1596	20/2	5	C	6	20/2	466	ROADWAY LIGHTING
*	" "	1596	--	7	A	8	--	466	" "
*	PARKING LIGHTING	1463	20/2	9	B	10	20/1	100	BLUE LIGHT STATION
*	" "	1463	--	11	C	12	20/1		SPARE
	SPARE		20/1	13	A	14	20/1		SPARE
	SPARE		20/1	15	B	16	20/1		SPARE
	SPACE		-	17	C	18	-		SPACE
	SPACE		-	19	A	20	-		SPACE
	SPACE		-	21	B	22	-		SPACE
	SPACE		-	23	C	24	-		SPACE
	KVA FOR PHASE A	3.99						33.3	AMPERES
	KVA FOR PHASE B	3.49						29.1	AMPERES
	KVA FOR PHASE C	3.53						29.4	AMPERES
	TOTAL KVA	11.01							

* FUTURE PARKING LIGHTING LOAD INCLUDED

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MERCED IRRIGATION DISTRICT REVIEWED
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Date:_____

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Project #:
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Seal and Signature

REGISTERED PROFESSIONAL ENGINEER LAWRENCE W. PETERS No. 17596 Exp. 12-31-17 ELECTRICAL STATE OF CALIFORNIA

Date Signed: 4/1/16

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DATE_____

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No.	Description	Issue Date
1	---	---

Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
ONE-LINE DIAGRAM, PEDESTAL ELEVATION, PANEL SCHEDULES & LOAD CALCULATIONS

Drawing Number:
E0.2

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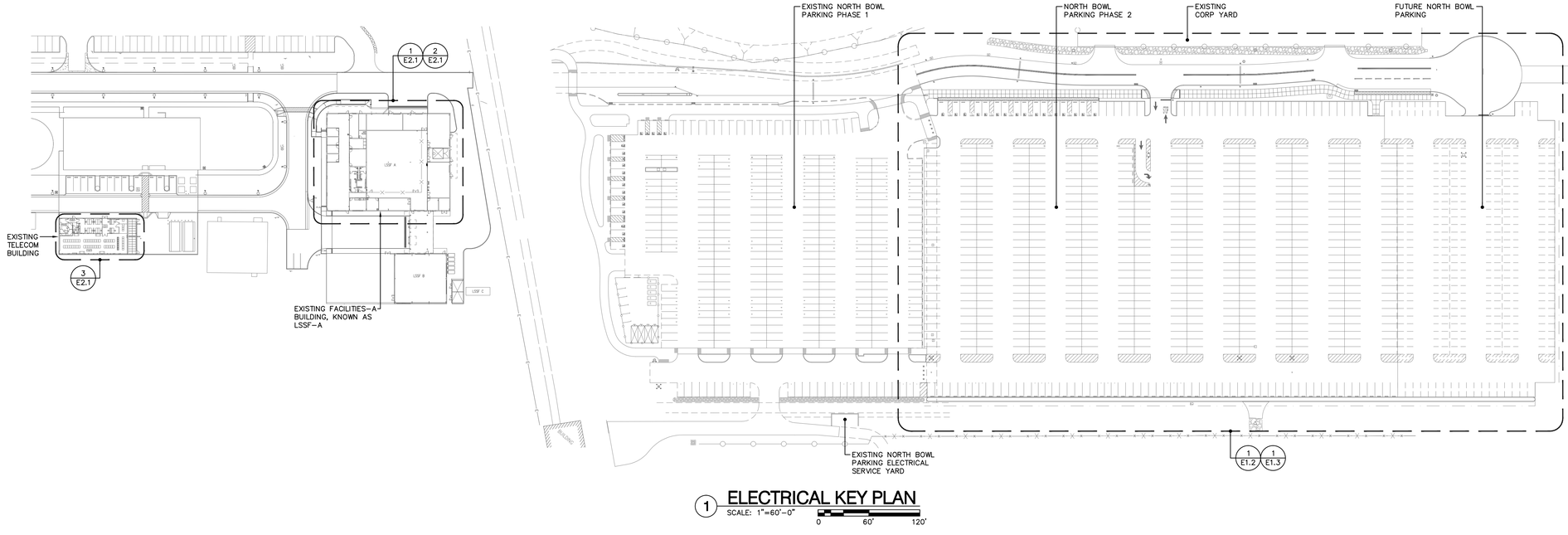

1 ELECTRICAL KEY PLAN
SCALE: 1"=60'–0"
0 60' 120'

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REGISTERED PROFESSIONAL ENGINEER
LAWRENCE W. KAYSER
No. 11308
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: 4/1/16

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Drawing Title
ELECTRICAL KEY PLAN

Drawing Number:
E1.1

30x42

File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Elec\15044E1.1.dwg --- 04/01/16

UNDERGROUND CONCRETE PULLBOX SCHEDULE

TAG	SIZE	RATING	MODEL NUMBER
P1	10" x 17"	NON-TRAFFIC	N9
P2	12" x 22"	NON-TRAFFIC	N16
P3	13" x 24"	NON-TRAFFIC	N30
P4	17" x 30"	NON-TRAFFIC	N36
P5	24" x 36"	NON-TRAFFIC	N40
P6	10" x 17"	TRAFFIC	B1017
P7	13" x 24"	TRAFFIC	B1324
P8	17" x 30"	TRAFFIC	B1730
P9	24" x 36"	TRAFFIC	B2436

LIGHTING OPERATION NOTES

ROADWAY LIGHTING:

ROADWAY LIGHTING SHALL OPERATE FROM DUSK TO DAWN VIA PHOTOCELL CONTROL. THE PHOTOCELL IS LOCATED IN THE INTEGRATED DISTRIBUTION BOARD 'IDB2'. THE ROADWAY LIGHTING SHALL MAINTAIN A CONTINUOUS 100% LUMEN OUTPUT LEVEL DURING THE OPERATING TIME PERIOD.

PARKING LIGHTING:

THE NORTH BOWL PARKING (PHASE 2) LIGHTING SHALL OPERATE FROM DUSK TO A PRESET TIME VIA PHOTOCELL AND TIME CLOCK CONTROL. THE PHOTOCELL AND TIME CLOCK ARE LOCATED IN THE INTEGRATED DISTRIBUTION BOARD 'IDB2'. EACH INDIVIDUAL LIGHT FIXTURE LOCATION SHALL PROVIDE 100% LUMEN OUTPUT LEVEL UPON START OF OPERATION AT DUSK. THE INDIVIDUAL LIGHT LOCATIONS SHALL REDUCE THE LIGHT LEVEL DOWN TO A 50% LUMEN OUTPUT LEVEL WHEN NO ACTIVITY IS DETECTED AT EACH INDIVIDUAL LOCATION FOR A PRESET TIME PERIOD. WHEN ACTIVITY IS DETECTED AT AN INDIVIDUAL LIGHT FIXTURE LOCATION THE LIGHTING LEVEL SHALL INCREASE BACK TO A 100% LUMEN OUTPUT LEVEL. WHEN NO ACTIVITY AGAIN IS DETECTED FOR A PRESET TIME PERIOD AT THE INDIVIDUAL LIGHT FIXTURE LOCATIONS, THE LIGHTING LEVEL SHALL REDUCE DOWN TO A 50% LUMEN OUTPUT LEVEL UNTIL ACTIVITY IS AGAIN DETECTED. THE INDIVIDUAL FIXTURE LIGHTING CONTROL OPERATING SHALL BE VIA A MOTION SENSOR LOCATED ON EACH INDIVIDUAL LIGHT FIXTURE. THE PARKING LIGHTING CONTROL SHALL BE PROVIDED WITH AN OVERRIDE OFF OPERATION VIA A TIME CLOCK. THE TIME CLOCK WILL ALLOW ALL OF THE PARKING LIGHTING TO BE TURNED OFF AT A PRESET TIME PERIOD AS OPPOSED TO WAITING UNTIL DAWN.

GENERAL SHEET NOTES

A. ALL ROADWAY POLE MOUNTED AREA LIGHTS, POLES, CONCRETE FOUNDATIONS, TRENCHING, PULLBOXES, CONDUITS & CONDUCTORS ARE TO BE INSTALLED IN BASE BID.

SHEET KEYNOTES

1 EXISTING UNDERGROUND MEDIUM VOLTAGE CONCRETE VAULT.

2 EXISTING MEDIUM VOLTAGE SERVICE TRANSFORMER.

3 EXISTING DISCONNECT SWITCH FEEDING EXISTING CORP YARD.

4 EXISTING DISCONNECT SWITCH FOR TRANSFORMER FEEDING EXISTING INTEGRATED DISTRIBUTION BOARD IDB1.

5 EXISTING LOW VOLTAGE TRANSFORMER FEEDING EXISTING INTEGRATED DISTRIBUTION BOARD IDB1.

6 EXISTING INTEGRATED DISTRIBUTION BOARD IDB1.

7 EXISTING PARKING POLE MOUNTED LIGHT FIXTURE.

8 EXISTING ROADWAY POLE MOUNTED LIGHT FIXTURE.

9 EXISTING UNDERGROUND CONCRETE PULLBOX -ELECTRICAL (SIZE N16). EXISTING PULLBOX TO BE REPLACED WITH TRAFFIC RATED CONCRETE PULLBOX, FOR INSTALLATION SEE TYPICAL TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1. RETURN EXISTING PULLBOX TO UC MERCED.

10 EXISTING UNDERGROUND CONCRETE PULLBOX -ELECTRICAL (SIZE N40). EXISTING PULLBOX TO BE REPLACED WITH TRAFFIC RATED CONCRETE PULLBOX, FOR INSTALLATION SEE TYPICAL TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1. RETURN EXISTING PULLBOX TO UC MERCED.

11 BLUE LIGHT TOWER. FOR INSTALLATION, SEE BLUE LIGHT TOWER DETAIL, ON DRAWING E3.2. FOR ROUTING OF COMMUNICATIONS CONDUIT & CABLE, SEE COMMUNICATIONS SITE PLAN, ON DRAWING E1.4.

12 INTEGRATED DISTRIBUTION BOARD IDB2, FOR LAYOUT SEE INTEGRATED DISTRIBUTION BOARD IDB2 ELEVATION ON DRAWING E0.2

13 INTEGRATED DISTRIBUTION BOARD IDB2 CONCRETE FOUNDATION, FOR INSTALLATION SEE INTEGRATED DISTRIBUTION BOARD IDB2 CONCRETE FOUNDATION DETAIL ON DRAWING E3.1.

14 UNDERGROUND CONDUIT, FOR INSTALLATION SEE TYPICAL TRENCH DETAIL ON DRAWING E3.1.

15 UNDERGROUND CONCRETE PULLBOX -ELECTRICAL, FOR INSTALLATION SEE TYPICAL NON-TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

16 UNDERGROUND CONCRETE PULLBOX -ELECTRICAL, FOR INSTALLATION SEE TYPICAL TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

17 POLE MOUNTED AREA LIGHT (ROADWAY), FOR INSTALLATION SEE RAISED POLE MOUNTED AREA LIGHT DETAIL ON DRAWING E3.1.

18 POLE MOUNTED AREA LIGHT (ROADWAY), FOR INSTALLATION SEE FLUSH POLE MOUNTED AREA LIGHT DETAIL ON DRAWING E3.1.

19 POLE MOUNTED AREA LIGHT (PARKING), FOR INSTALLATION SEE RAISED POLE MOUNTED AREA LIGHT DETAIL ON DRAWING E3.1.

20 PROVIDE UNDERGROUND PULLBOX – ELECTRICAL, IF DEDUCTIVE ALTERNATIVE 1 IS CHOSEN, PROVIDE PULLBOX FOR THE PURPOSE OF DEDUCTIVE ALTERNATE 2. FOR INSTALLATION, SEE TYPICAL NON-TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

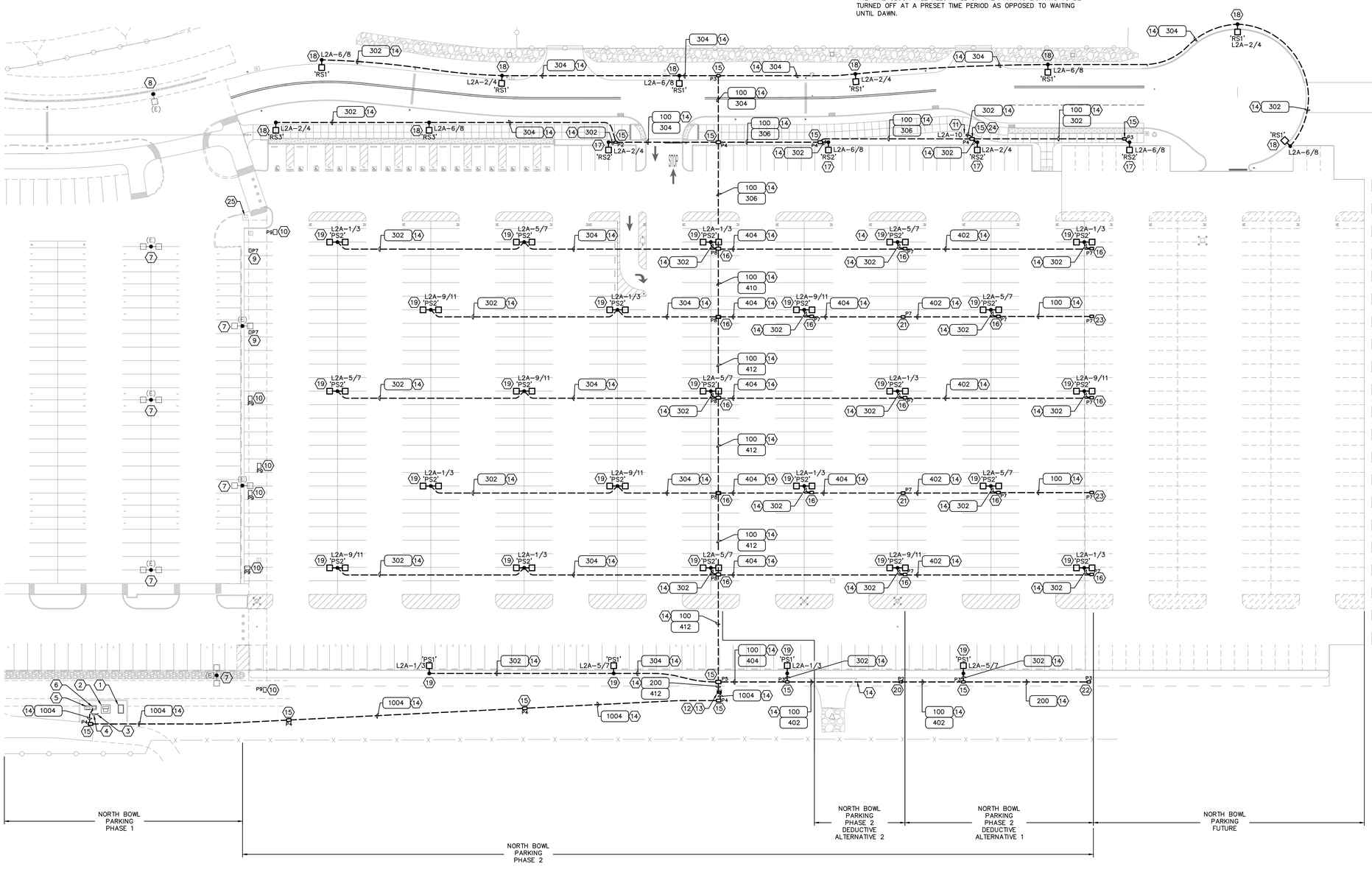
21 PROVIDE UNDERGROUND PULLBOX – ELECTRICAL, IF DEDUCTIVE ALTERNATIVE 1 IS CHOSEN, PROVIDE PULLBOX FOR THE PURPOSE OF DEDUCTIVE ALTERNATE 2. FOR INSTALLATION, SEE TYPICAL TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

22 PROVIDE UNDERGROUND PULLBOX – ELECTRICAL, IF NO DEDUCTIVE ALTERNATIVES ARE CHOSEN. FOR INSTALLATION, SEE TYPICAL NON-TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

23 PROVIDE UNDERGROUND PULLBOX – ELECTRICAL, IF NO DEDUCTIVE ALTERNATIVES ARE CHOSEN. FOR INSTALLATION, SEE TYPICAL TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

24 PROVIDE 3/4" x 10' COPPER GROUND ROD AND (1) #6 AWG COPPER, GREEN INSULATED GROUNDING CONDUCTOR IN UNDERGROUND CONCRETE PULLBOX FOR GROUNDING OF BLUE LIGHT TOWER. FOR INSTALLATION SEE BLUE LIGHT TOWER DETAIL ON DRAWING E3.2.

25 EXISTING BLUE LIGHT TOWER WITH WEBS, LOCATION SHOWN FOR REFERENCE.



1 ELECTRICAL SITE PLAN
SCALE: 1"=30'-0"
0 30' 60'

UC Merced
University of California
Merced, California

Project Name:
North Bowl Parking Phase 2

Project Number:
906550

Engineer:
SIEGFRIED
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Stockton,California 95219
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LAND SURVEYING
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MERCED IRRIGATION DISTRICT REVIEWED
Final approval is subject to field inspection.

Reviewed By:_____

Date:_____

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CDF-OFFICE OF STATE FIRE MARSHAL APPROVED
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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature
REGISTERED PROFESSIONAL ENGINEER
No. 11394
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: 4/1/16

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DIVISION OF THE STATE ARCHITECT

APPL 01

AC_____FLS_____SS_____

DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENT

No.	Description	Issue Date
1	---	---

Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
ELECTRICAL SITE PLAN

Drawing Number:
E1.2

Stanton ENGINEERING M+E
PROJECT 15044
1819 K Street, Suite 250
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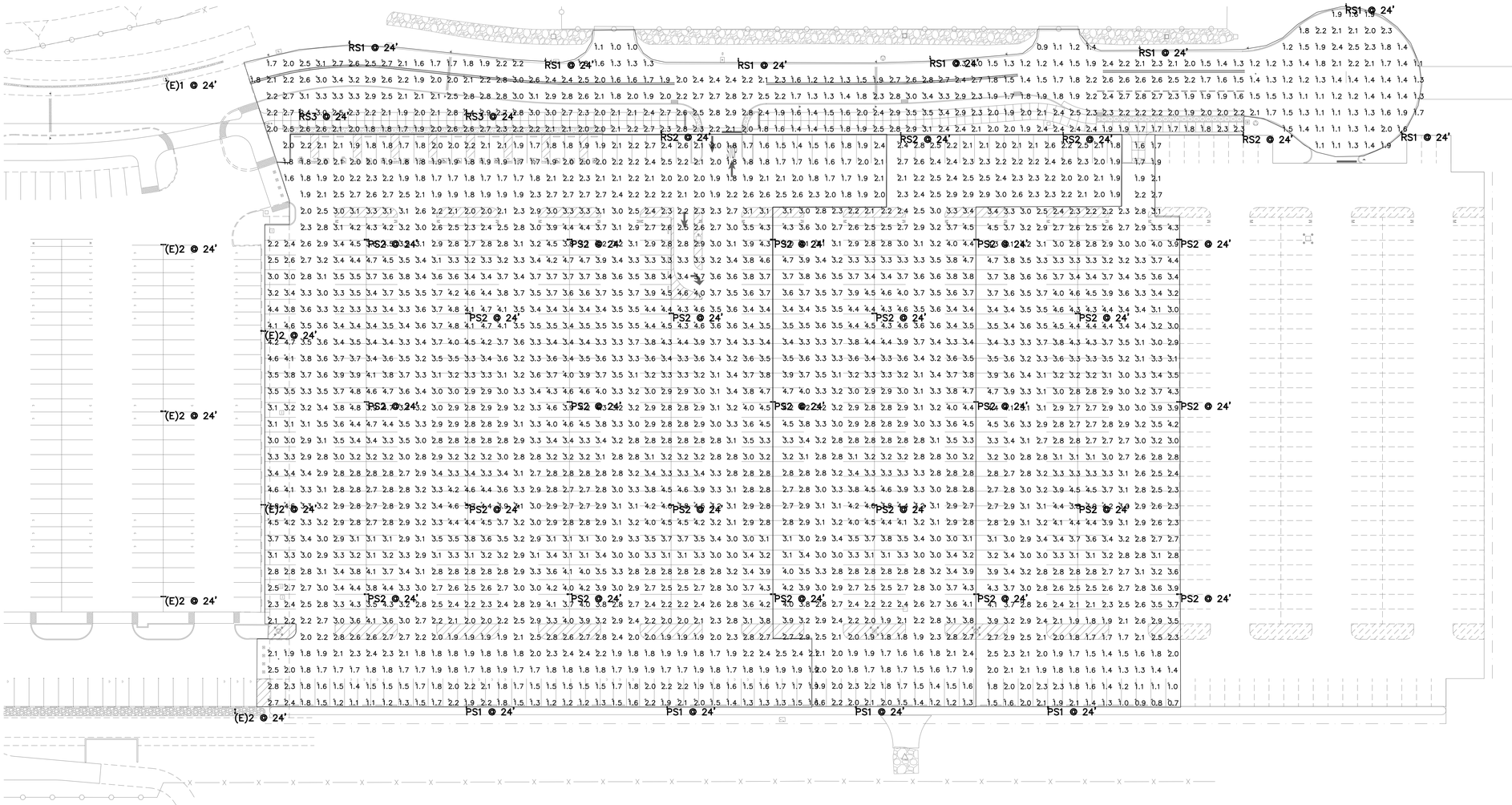
www.stantoneng.com

30x42

File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Elec\15044E1.2.dwg — 04/01/16

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	(E)	1	CREE INC.	ARE-EDG-5M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx506E-UD7)	Cree Edge Area, Type V Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-5M-___-06 -E-UL-700-40K.ies	12021	1	133
	(E)	6	CREE INC.	ARE-EDG-5M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx506E-UD7)	Cree Edge Area, Type V Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-5M-___-06 -E-UL-700-40K.ies	12021	1	266
	PS1	4	CREE INC.	ARE-EDG-5M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx506E-UD7)	Cree Edge Area, Type V Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-5M-___-06 -E-UL-700-40K.ies	12021	1	133
	PS2	23	CREE INC.	ARE-EDG-5M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx506E-UD7)	Cree Edge Area, Type V Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-5M-___-06 -E-UL-700-40K.ies	12021	1	266
	RS1	7	CREE INC.	ARE-EDG-3M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx306E-UD7)	Cree Edge Area, Type III Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-3M-___-06 -E-UL-700-40K.ies	12021	1	133
	RS2	4	CREE INC.	ARE-EDG-5M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx506E-UD7)	Cree Edge Area, Type V Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-5M-___-06 -E-UL-700-40K.ies	12021	1	133
	RS3	2	CREE INC.	ARE-EDG-5M-xx-06-E-UL-xx-700 -40K-xxxx (BXALx506E-UD7)	Cree Edge Area, Type V Medium, 60 LEDs, 700mA, 4000K	Sixty White LEDs, Vertical Base-Up Position	1	ARE-EDG-5M-___-06 -E-UL-700-40K.ies	12021	1	133

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Base Bid Lighting	+	2.9 fc	4.8 fc	1.1 fc	4.4:1	2.6:1
Roadway/Walkway Lighting	+	2.1 fc	3.5 fc	0.9 fc	3.9:1	2.3:1
Deductive Alternate #1	+	3.0 fc	4.7 fc	0.7 fc	6.7:1	4.3:1
Deductive Alternate #2	+	3.0 fc	4.7 fc	1.2 fc	3.9:1	2.5:1



1 PHOTOMETRICS SITE PLAN
SCALE: 1"=30'-0"
0 30' 60'

Stanton ENGINEERING
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Sacramento, CA 95811
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MERCED IRRIGATION DISTRICT REVIEWED
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Reviewed By:_____
Date:_____

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APPROVED
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Authorization #:

Seal and Signature
REGISTERED PROFESSIONAL ENGINEER
LAWRENCE W. SIEGFRIED
No. 11308
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA
Date Signed: 4/1/16

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DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENT

No.	Description	Issue Date
1	---	---

Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
PHOTOMETRICS SITE PLAN

Drawing Number:
E1.3

30x42

File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Dwg\15044E1.3.dwg — 04/01/16

UNDERGROUND CONCRETE PULLBOX SCHEDULE

TAG	SIZE	RATING	MODEL NUMBER
P1	10" x 17"	NON-TRAFFIC	N9
P2	12" x 22"	NON-TRAFFIC	N16
P3	13" x 24"	NON-TRAFFIC	N30
P4	17" x 30"	NON-TRAFFIC	N36
P5	24" x 36"	NON-TRAFFIC	N40
P6	10" x 17"	TRAFFIC	B1017
P7	13" x 24"	TRAFFIC	B1324
P8	17" x 30"	TRAFFIC	B1730
P9	24" x 36"	TRAFFIC	B2436

COMMUNICATION CONDUIT SCHEDULE

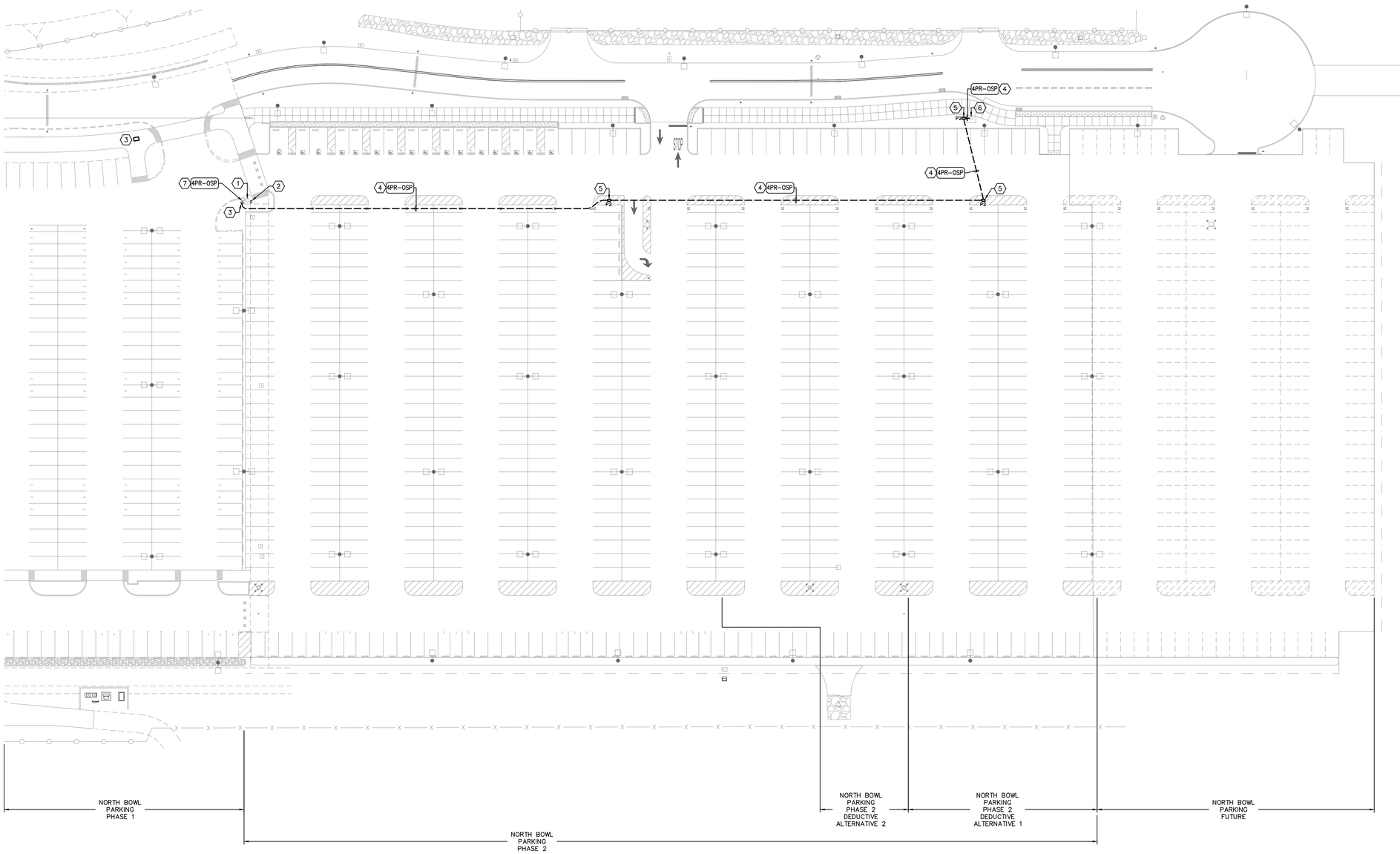
4PR-OSP — ONE 1-1/2" CONDUIT WITH (1) 4 TWISTED PAIR, SHIELDED, OSP CABLE.

GENERAL SHEET NOTES

A. BLUE LIGHT TOWER WITH WEBS, CONCRETE FOUNDATION, TRENCHING, PULLBOXES, CONDUITS & CABLE ARE TO BE INSTALLED AND OPERATIONAL IN BASE BID & ANY DEDUCTIVE ALTERNATIVE.

SHEET KEYNOTES

1. EXISTING BLUE LIGHT TOWER WITH WEBS. INSTALL DIN RAIL MOUNTED TERMINAL BLOCKS ON TOWER INTERIOR BACK PANEL FOR TERMINATION OF EXISTING 6-PAIR OSP CABLE AND NEW 4-PAIR OSP CABLE FOR EXTENSION TO NEW BLUE LIGHT TOWER WITH WEBS.
2. EXISTING BLUE LIGHT TOWER UNDERGROUND CONCRETE PULLBOX - ELECTRICAL.
3. EXISTING BLUE LIGHT TOWER UNDERGROUND CONCRETE PULLBOX - COMMUNICATONS.
4. UNDERGROUND CONDUIT, FOR INSTALLATION SEE TYPICAL TRENCH DETAIL ON DRAWING E3.1.
5. UNDERGROUND CONCRETE PULLBOX - COMMUNICATION, FOR INSTALLATION SEE TYPICAL NON-TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.
6. BLUE LIGHT TOWER WITH WEBS. FOR INSTALLATION SEE BLUE LIGHT TOWER DETAIL ON DRAWING E3.2.
7. EXISTING UNDERGROUND CONDUIT WITH EXISTING 6-PAIR OSP CABLE FOR COMMUNICATIONS TO EXISTING BLUE LIGHT TOWER WITH WEBS. INSTALL NEW 4-PAIR OSP CABLE IN EXISTING CONDUIT AND ROUTE TO NEW BLUE LIGHT TOWER WITH WEBS.



1 COMMUNICATIONS SITE PLAN
SCALE: 1"=30'-0"
0 30' 60'

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Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE W. STEVENS
No. 11308
Exp. 12-31-17
ELECTRICITY
STATE OF CALIFORNIA

Date Signed: 4/1/16

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AC_____FLS_____SS_____
DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENT

No.	Description	Issue Date
1	---	---

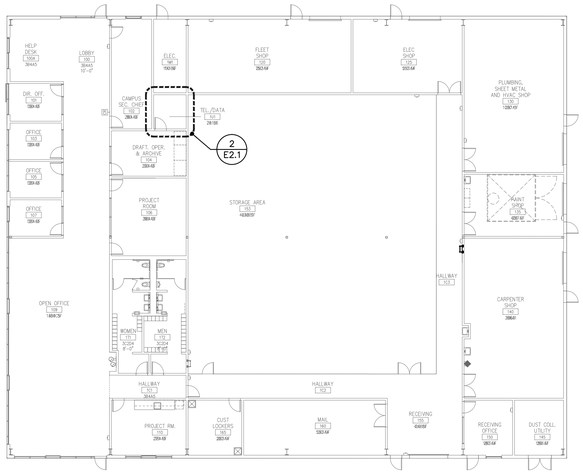
Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
COMMUNICATIONS SITE PLAN

Drawing Number:
E1.4

30x42

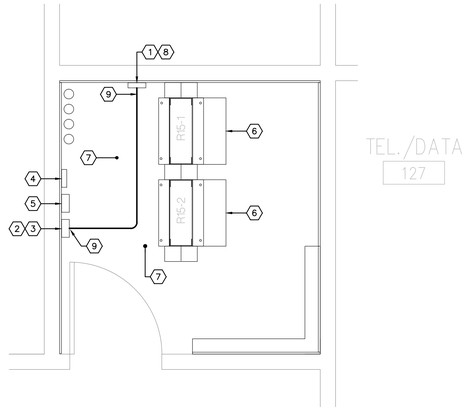
File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Elec\15044E1.4.dwg --- 04/01/16



1 EXISTING FACILITIES BUILDING 'A' (LSSF A) FLOOR PLAN

SCALE: 1/16"=1'-0"

0 8' 16' 32'



2 EXISTING FACILITIES BUILDING 'A' (LSSF A) - MDF ROOM FLOOR PLAN

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

0 1' 2' 4'

SHEET KEYNOTES

1 EXISTING COMMUNICATIONS CABLE PUNCHDOWN TERMINAL BLOCK PANEL.

2 EXISTING FACILITIES BUILDING 'A' WALL MOUNTED COMMUNICATIONS CABLE PUNCHDOWN TERMINATION PANEL.

3 EXISTING FACILITIES BUILDING 'B' WALL MOUNTED COMMUNICATIONS CABLE PUNCHDOWN TERMINATION PANEL.

4 EXISTING FACILITIES BUILDINGS 'A' & 'B' WALL MOUNTED COMMUNICATIONS CABLE PUNCHDOWN TERMINATION RACKS FOR EXISTING COMMUNICATIONS CABLES ROUTED TO EXISTING TELECOM BUILDING COMMUNICATION RACKS.

5 EXISTING FACILITIES BUILDING 'B' WALL MOUNTED COMMUNICATIONS CABLE PUNCHDOWN TERMINATION RACK.

6 EXISTING FLOOR MOUNTED COMMUNICATION RACK.

7 EXISTING OVERHEAD CABLE WIRE RACK (NOT SHOWN).

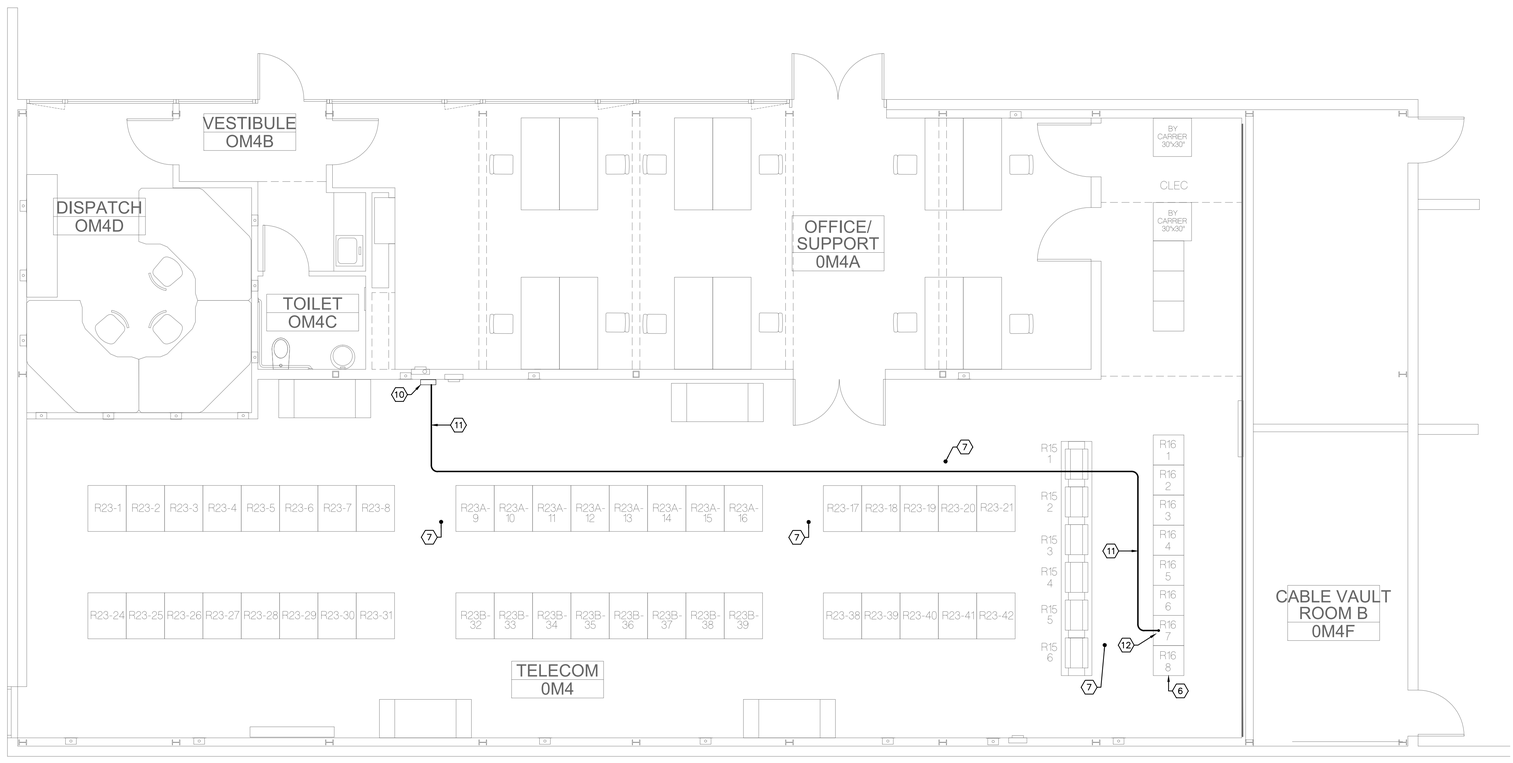
8 EXISTING (1) 6 TWISTED PAIR, SHIELDED, OSP COMMUNICATIONS CABLE ROUTED FROM THE EXISTING NORTH BOWL PARKING PHASE 1 BLUE LIGHT TOWER WITH WEBS IS TERMINATED AT THIS EXISTING COMMUNICATIONS CABLE PUNCHDOWN TERMINAL BLOCK PANEL.

9 (2) CAT 6A CABLES ROUTED FROM THE EXISTING COMMUNICATIONS CABLE PUNCHDOWN TERMINAL BLOCK PANEL TO THE EXISTING FACILITIES BUILDING 'A' WALL MOUNTED COMMUNICATIONS CABLE PUNCHDOWN TERMINATION PANEL. THE CAT 6A CABLES SHALL BE INSTALLED USING THE EXISTING OVERHEAD CABLE WIRE RACK. THE CAT 6A CABLES ARE TO BE TERMINATED AT THE EXISTING COMMUNICATIONS CABLE PUNCHDOWN TERMINAL BLOCK PANEL AT THE TERMINATION POINTS OF (2) SPARE PAIRS OF THE EXISTING (1) 6 TWISTED PAIR, SHIELDED, OSP COMMUNICATIONS CABLE THAT IS ROUTED FROM THE EXISTING NORTH BOWL PARKING PHASE 1 BLUE LIGHT TOWER WITH WEBS. SPARE PAIRS OF THE EXISTING (1) 6 TWSTED PAIR, SHIELDED, OSP COMMUNICATIONS CABLE ARE TO BE COORDINATED SO (1) SPARE PAIR IS USED FOR THE OPERATION OF THE NEW NORTH BOWL PARKING PHASE 2 BLUE LIGHT TOWER EMERGENCY TELEPHONE AND (1) SPARE PAIR IS USED FOR THE OPERATIOIN OF THE NEW NORTH BOWL PARKING PHASE 2 BLUE LIGHT TOWER WIDE-AREA EMERGENCY BROADCAST SYSTEM (WEBS / MASS NOTIFICATION SYSTEM). COORDINATE WITH UC MERCED FACILITIES DEPARTMENT FOR ASSISTANCE ON SPECIFIC TERMINATION POINTS TO BE USED AT THE EXISTING COMMUNICATIONS CABLE PUNCHDOWN TERMINAL BLOCK PANEL AND AT THE EXISTING FACILITIES BUILDING 'A' WALL MOUNTED COMMUNICATIONS CABLE PUNCHDOWN TERMINATION PANEL.

10 EXISTING BLUE LIGHT TOWER WIDE-AREA EMERGENCY BROADCAST SYSTEM (WEBS/MASS NOTIFICATION SYSTEM) WALL MOUNTED TELEPHONE ZONE PAGING SYSTEM CONTROL MODULES.

11 (1) CAT 6A CABLE ROUTED FROM THE EXISTING FLOOR MOUNTED COMMUNICATION RACK TO THE EXISTING BLUE LIGHT TOWERS WIDE-AREA EMERGENCY BROADCAST SYSTEM (WEBS/MASS NOTIFICATION SYSTEM) WALL MOUNTED TELEPHONE ZONE PAGING SYSTEM CONTROL MODULE. THE CAT 6A CABLE SHALL BE INSTALLED USING THE EXISTING OVERHEAD CABLE WIRE RACK. THE CAT 6A CABLE IS TO BE TERMINATED AT THE EXISTING WALL MOUNTED TELEPHONE ZONE PAGING SYSTEM CONTROL MODULE FOR THE OPERATION OF THE NEW NORTH BOWL PARKING PHASE 2 BLUE LIGHT TOWER WIDE-AREA EMERGENCY BROADCAST SYSTEM (WEBS / MASS NOTIFICATION SYSTEM). COORDINATE WITH UC MERCED FACILITIES DEPARTMENT FOR ASSISTANCE ON SPECIFIC TERMINATION POINTS TO BE USED AT THE EXISTING BLUE LIGHT TOWERS WIDE-AREA EMERGENCY BROADCAST SYSTEM (WEBS / MASS NOTIFICATION SYSTEM) WALL MOUNTED TELEPHONE ZONE PAGING SYSTEM CONTROL MODULE.

12 FOR OPERATION OF THE NEW NORTH BOWL PARKING PHASE 2 BLUE LIGHT TOWER EMERGENCY TELEPHONE, USE AN EXISTING PAIR OF CONDUCTORS THAT ARE TERMINATED IN THE EXISTING FLOOR MOUNTED COMMUNICATION RACK. COORDINATE WITH UC MERCED FACILITIES DEPARTMENT FOR ASSISTANCE ON SPECIFIC TERMINATION POINTS TO BE USED AT THE EXISTING FLOOR MOUNTED COMMUNICATION RACK. UC MERCED FACILITIES DEPARTMENT SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY (AT&T) FOR ACTIVATION OF TELEPHONE LINE FOR OPERATION OF THE NEW NORTH BOWL PARKING PHASE 2 BLUE LIGHT TOWER EMERGENCY TELEPHONE.



3 EXISTING TELECOM BUILDING FLOOR PLAN

SCALE: 1/4"=1'-0"

0 2' 4' 8'

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Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE W. STEVENS
No. 11394
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: 4/1/16

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01

AC_____FLS_____SS_____

DATE_____

Drawing Stage:
100% CONSTRUCTION DOCUMENT

No.	Description	Issue Date
1	---	---

Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:

Key Plan:

N

Drawing Title

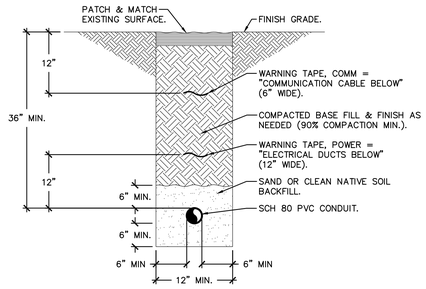
EXISTING FACILITIES BUILDING 'A' (LSSF-A) & TELECOM BUILDING

Drawing Number:

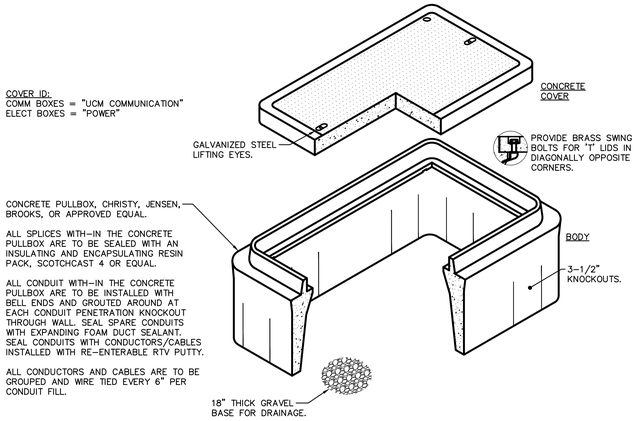
E2.1

30x42

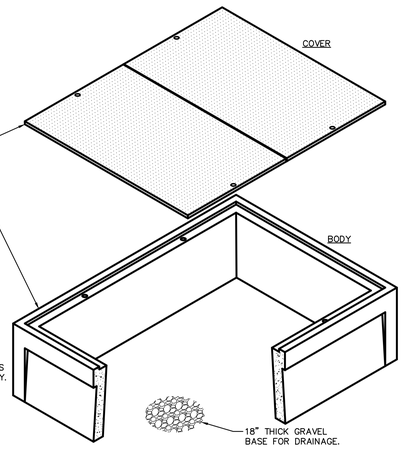
File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Dwn\15044E2.1.dwg --- 04/01/16



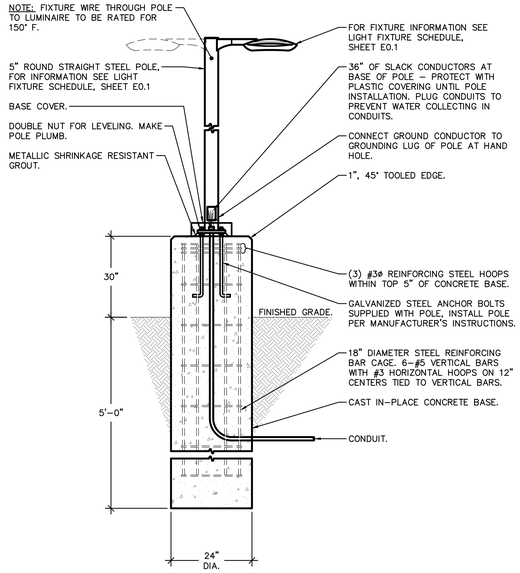
1 TYPICAL TRENCH DETAIL
NO SCALE



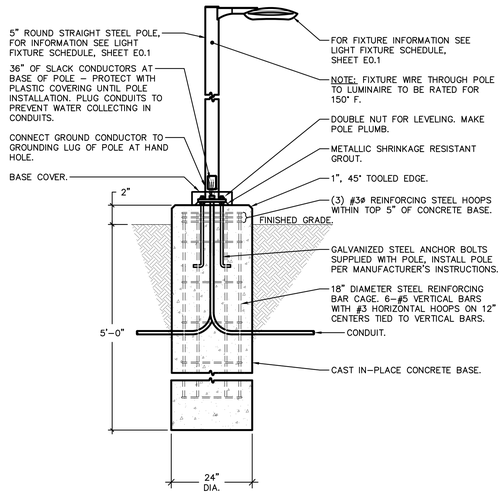
2 TYPICAL NON-TRAFFIC RATED CONCRETE PULLBOX DETAIL
NO SCALE



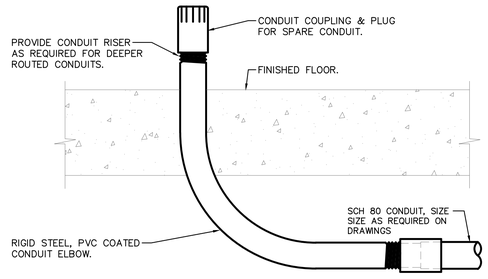
3 TYPICAL TRAFFIC RATED CONCRETE PULLBOX DETAIL
NO SCALE



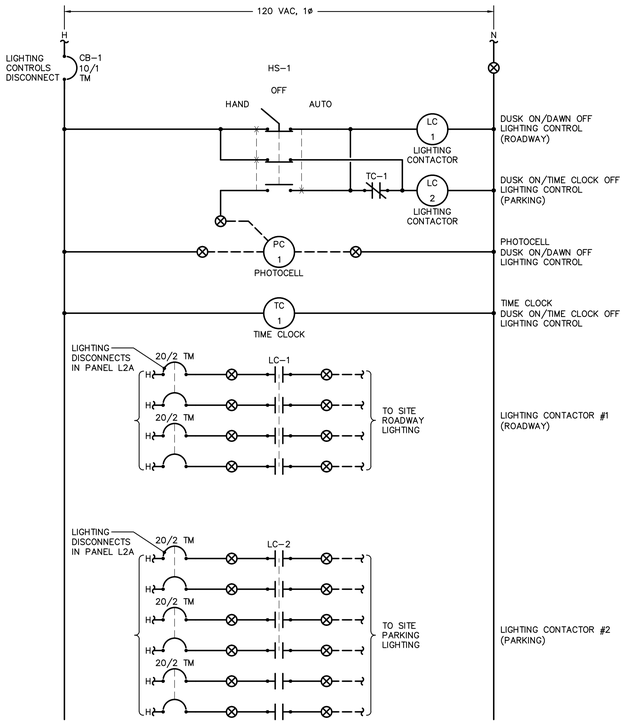
4 RAISED POLE MOUNTED AREA LIGHT DETAIL
NO SCALE



5 FLUSH POLE MOUNTED AREA LIGHT DETAIL
NO SCALE

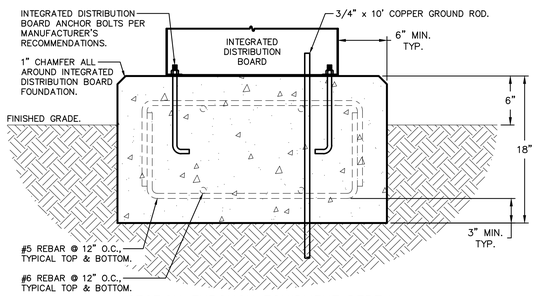


6 CONDUIT STUB-UP DETAIL
NO SCALE



7 PARKING LOT & ROADWAY LIGHTING CONTROLS WIRING DIAGRAM
NO SCALE

EQUIPMENT LIST		
TAG	EQUIPMENT	MANUFACTURER/MODEL
PC-1	PHOTOCELL	INTERMATIC / ELC4536/K121 OR EQUAL
TC-1	TIME CLOCK (24/7 ASTRONOMIC DIAL)	INTERMATIC / ET8215C OR EQUAL
HS-1	SELECTOR SWITCH (3-POSITION)	SQUARE D / CLASS 9001K OR EQUAL
LC-1	LIGHTING CONTACTOR (4-POLE, 30 AMP)	SQUARE D / CLASS 8903, TYPE L OR EQUAL
LC-2	LIGHTING CONTACTOR (6-POLE, 30 AMP)	SQUARE D / CLASS 8903, TYPE L OR EQUAL
CB-1	MINATURE CIRCUIT BREAKER (10 AMP, 120 VAC)	SQUARE D / QOB OR EQUAL



SECTION THROUGH EQUIPMENT DEPTH

NOTES
1. EQUIPMENT BASE TOP SHALL BE LEVEL.
2. PRIOR TO EQUIPMENT BASE INSTALLATION, COMPACT SOIL UNDER THE BASE TO 95% RELATIVE COMPACTION.
3. CONCRETE COMPRESSIVE STRENGTH, 3000 PSI IN 28 DAYS.

8 INTEGRATED DISTRIBUTION BOARD IDB2 CONCRETE FOUNDATION DETAIL
NO SCALE

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UC Merced
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Project Name:
North Bowl Parking Phase 2

Project Number:
906550

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LANDSCAPE ARCHITECTURE

MERCED IRRIGATION DISTRICT REVIEWED
Final approval is subject to field inspection.
Reviewed By:_____
Date:_____

UNIVERSITY OF CALIFORNIA MERCED FIRE MARSHAL
CDF-OFFICE OF STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project at all times.
Reviewed By:_____
Project #:
Authorization #:

Seal and Signature
REGISTERED PROFESSIONAL ENGINEER – LAWRENCE WATERS – No. 17566 Exp. 12-31-17 – ELECTRICAL – STATE OF CALIFORNIA
Date Signed: 4/1/16

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01
AC_____FLS_____SS_____
DATE_____

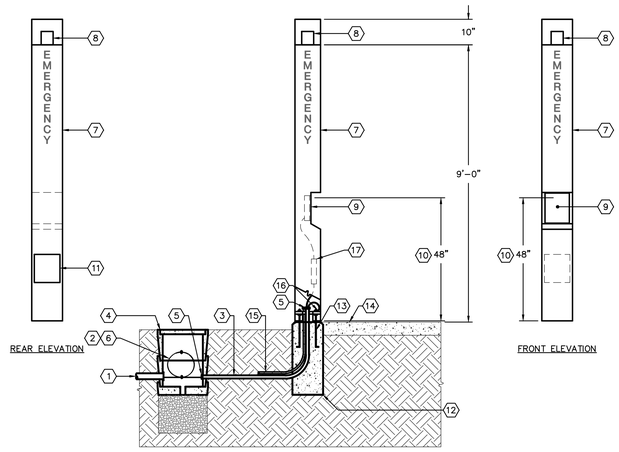
Drawing Stage:
100% CONSTRUCTION DOCUMENT

No.	Description	Issue Date
1	---	---

Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
ELECTRICAL DETAILS

Drawing Number:
E3.1



1 BLUE LIGHT TOWER DETAIL
NO SCALE

DETAIL KEYNOTES

1 (1) 1-1/2" SCHDULE 80 PVC CONDUIT WITH (1) 4 TWISTED PAIR, SHIELDED, OSP COMMUNICATIONS CABLE ROUTED FROM NORTH BOWL PARKING PHASE 1 BLUE LIGHT TOWER WITH WEBS. FOR UNDERGROUND CONDUIT INSTALLATION SEE TYPICAL TRENCH DETAIL ON DRAWING E3.1.

2 (1) 4 TWISTED PAIR, SHIELDED, OSP COMMUNICATIONS CABLE ROUTED FROM NORTH BOWL PARKING PHASE 1 BLUE LIGHT TOWER WITH WEBS.

3 (1) 1" PVC COATED RIGID STEEL CONDUIT WITH (1) 4 TWISTED PAIR, SHIELDED, OSP COMMUNICATIONS CABLE ROUTED FROM NORTH BOWL PARKING PHASE 1 BLUE LIGHT TOWER WITH WEBS. FOR UNDERGROUND CONDUIT INSTALLATION SEE TYPICAL TRENCH DETAIL ON DRAWING E3.1.

4 UNDERGROUND CONCRETE PULLBOX - COMMUNICATIONS, FOR INSTALLATION SEE TYPICAL NON-TRAFFIC RATED CONCRETE PULLBOX DETAIL ON DRAWING E3.1.

5 1" RIGID STEEL CONDUIT GROUNDING BUSHING.

6 COMMUNICATIONS CABLE TO BE INSTALL WITH LOOP INSIDE UNDERGROUND CONCRETE PULLBOX, DO NOT SPLICE WITHIN UNDERGROUND CONCRETE PULLBOX.

7 BLUE LIGHT TOWER WITH WEBS (WIDE-AREA EMERGENCY BROADCAST SYSTEM), TALK-A-PHONE ETP-400V SERIES WITH WEBS-MT/R, SEE SPECIFICATION 27 50 00 FOR REQUIREMENTS.

8 BLUE LIGHT STROBE AND WIDE-AREA EMERGENCY BROADCAST SYSTEM (MASS NOTIFICATION), CONTRACTOR FURNISHED & CONTRACTOR INSTALLED.

9 EMERGENCY ASSISTANCE SINGLE PUSHBUTTON PHONE WITH RECESSED FACEPLATE LED LIGHT.

10 MOUNTING HEIGHT OF HIGHEST OPERABLE ELEMENT SHALL COMPLY WITH CALIFORNIA BUILDING CODE, CHAPTER 11 FOR ACCESSIBILITY.

11 REMOVEABLE ACCESS PANEL WITH TAMPER RESISTANT HARDWARE.

12 BLUE LIGHT TOWER CONCRETE FOUNDATION, 24" DIAMETER, 36" DEEP MINIMUM.

13 BLUE LIGHT TOWER ANCHOR BOLTS PROVIDED BY EQUIPMENT MANUFACTURER. ANCHOR BOLTS SHALL BE (4) 3/4" x 10" - 24" LONG WITH 5" PROJECTING ABOVE FINISHED CONCRETE FOUNDATION.

14 PROVIDE APPROXIMATLEY 1/2" CLEARANCE BETWEEN CONCRETE FOUNDATION AND BLUE LIGHT TOWER PER EQUIPMENT MANUFACTURERS REQUIREMENTS.

15 120 VOLT ELECTRICAL POWER CONDUIT AND CONDUCTORS, FOR INSTALLATION SEE ELECTRICAL SITE PLAN ON DRAWING E1.2.

16 BLUE LIGHT TOWER ASSEMBLY AND TELECOMMUNICATIONS CONDUIT TO BE BONDED AND CONNECTED TO GROUND ROD LOCATED WITHIN ADJACENT ELECTRICAL CONCRETE PULLBOX. PROVIDE (1) #6 AWG COPPER, GREEN INSULATED GROUNDING CONDUCTOR TO GROUND ROD.

17 DIN RAIL MOUNTED TERMINAL BLOCKS FOR INCOMING TERMINATIONS OF ALL CONDUCTORS IN COMMUNICATIONS CABLE.

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UNIVERSITY OF CALIFORNIA MERCED
FIRE MARSHAL
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Reviewed By:_____
Project #:
Authorization #:

Seal and Signature

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE W. SIEGFRIED
No. 11308
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: 4/1/16

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APPL 01

AC_____FLS_____SS_____

DATE_____

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1	---	---

Drawn By: JRL
Revision Date: 1/22/2016
Plot Date: 4/1/2016
Scale:
Key Plan:

Drawing Title
COMMUNICATIONS DETAILS

Drawing Number:
E3.2

30x42

File Name: S:\2015\15044 UC Merced North Bowl Parking Lot\CAD\Elec\15044E3.2.dwg --- 04/01/16