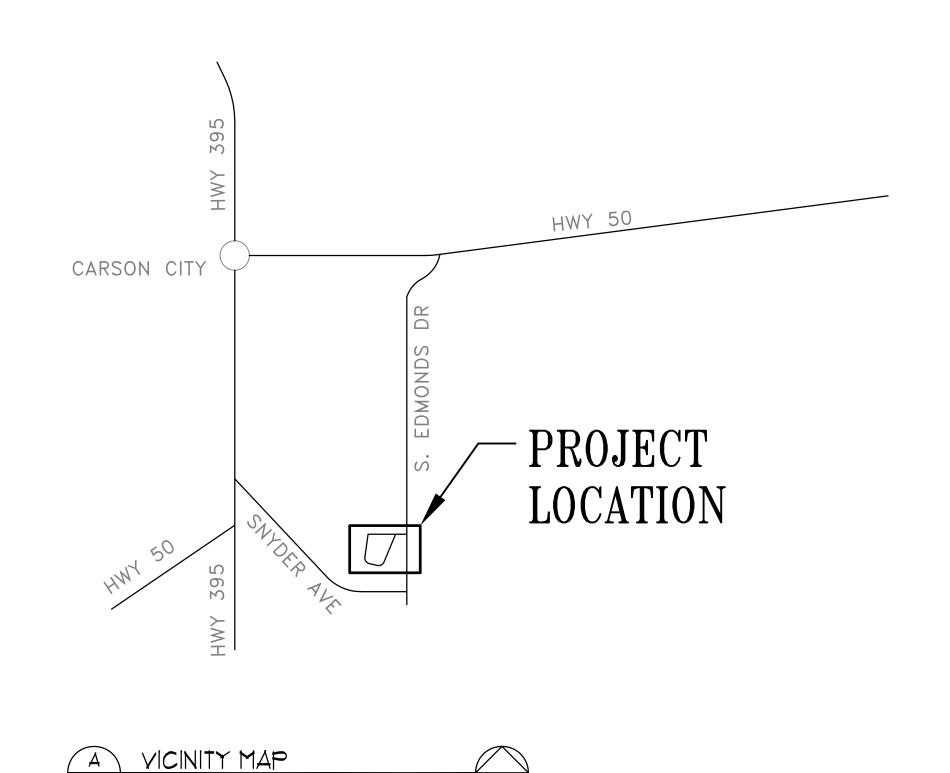
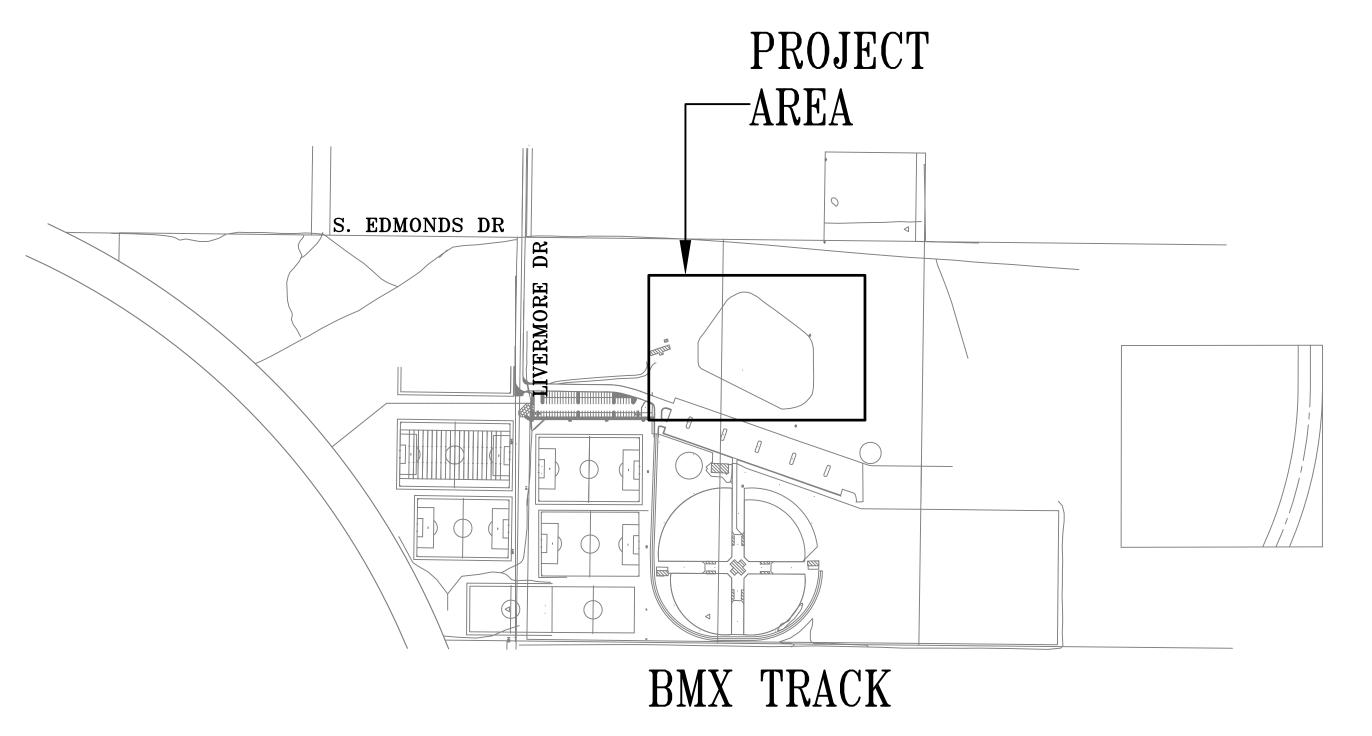
# CARSON CITY PARKS AND RECREATION DEPARTMENT EDMONDS SPORTS COMPLEX BMX TRACK LIGHTING PROJECT CARSON CITY, NEVADA CC PROJECT NUMBER 010714

| ELECTRICAL  | CARSON CITY PARKS AND RECREATION DEPT.   | INDEX OF DRAWINGS   |
|---|--|---|
| DINTER ENGINEERING CO. 385 GENTRY WAY RENO, NEVADA 89502 PH. 775-826-4044 FAX. 775-826-4190 CONTACT: ED GANSBERG - 775-682-4616 | ADDRESS: 3303 BUTTI WAY, BUILDING 9, CARSON CITY, NV 89701 DIRECTOR: ROGER MOELLENDORF 775-887-2262 EXT 7345 PARK PLANNER: VERN L. KRAHN 775-887-2262 EXT 7343 DIRECTOR OF OPERATIONS: SCOTT FAHRENBRUCH 775-887-2262 EXT 7340 | TO.1 TITLE SHEET E0.1 SYMBOL LIST, SCHEDULES AND GENERAL NOTES E1.1 ELECTRICAL SITE PLAN E2.1 ELECTRICAL DETAILS AND EXISTING SINGLE-LINE DIAGRAM E3.1 SOFT LIGHTING SYSTEMS PHOTOMETRIC PLAN |
| UTILITY CONTACTS  | CARSON CITY PUBLIC WORKS   |   |
| NV ENERGY         AT&T           DARRYN CRAWFORD         TOM HODGKINS           775-848-5401         775-448-9226               | ADDRESS: 3505 BUTTI WAY, CARSON CITY, NV 89701 PROJECT MANAGER: TOM GRUNDY 775-887-2355 ASSISTANT PROJECT MANAGER: DARREN ANDERSON 775-887-2355  |   |



NORTH

SCALE: NONE

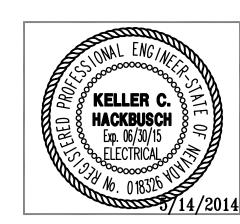


B KEY PLAN
TO.1 SCALE: NONE



MECHANICAL, ELECTRICAL, AND AIRFIELD ELECTRICAL CONSULTING ENGINEERS 385 GENTRY WAY RENO, NEVADA 89502-4608 (775)826-4044 [FAX 826-4190] www.dinter.com

EDMONDS SPORTS COMPLEX
BMX TRACK LIGHTING PROJECT
CARSON CITY PARKS AND RECREATION DEPARTMENT
1555 LIVERMORE LANE CARSON CITY, NV.



REVISION:

JOB NO.: J-4144.1
DESIGN: MUB
DRAWN: MUB
CHECK: ERG
DATE: 14 MAY 2014

TITLE SHEET

SHEET NO.:

T0.1

## ELECTRICAL SYMBOL LIST: (NOTE: ALL OF THE SYMBOLS INDICATED BELOW MAY NOT APPEAR ON THIS PROJECT) CONDUIT RUN IN OR ON CEILING OR WALL CONDUIT RUN IN OR UNDER FLOOR OR UNDERGROUND ---///-- HASH MARKS INDICATE NUMBER OF #12 AUG CONDUCTORS IN CONDUIT. NO MARKS INDICATE 2 #12'S. DOES NOT INCLUDE GROUND WIRE. IF NON-METALLIC CONDUIT ADD GROUND PER NEC LONG SLASH WITH HASH MARKS AS SHOWN INDICATES GROUND WIRE FOR ISOLATED GROUNDING SYSTEM. SIZE PER N.E.C. ---- EXISTING UTILITY LINE ---- S---- SECONDARY UTILITY LINE --- OH --- OVERHEAD UTILITY LINE SPORTS POLE LIGHT - 1 FIXTURE HEADS SPORTS POLE LIGHT - 5 FIXTURE HEADS MAGNETIC CONTACTOR JUNCTION BOX AS REQUIRED BY NATIONAL ELECTRIC CODE ELECTRICAL PANELBOARD - SURFACE MOUNTED ELECTRICAL PANELBOARD - FLUSH MOUNTED SERVICE OR DISTRIBUTION EQUIPMENT TRANSFORMER PRECAST CONCRETE PULLBOX (SIZE AS INDICATED) ---- EXISTING WIRE AND/OR CONDUIT TO REMAIN "E" ADJACENT TO DEVICES, LIGHT FIXTURES, ETC. INDICATES EXISTING TO REMAIN EXISTING TO REMAIN ABOVE FINISHED GRADE ALUMINUM AT&T TELEPHONE COMPANY COPPER EXISTING EMPTY CONDUIT WITH PULL WIRE (N) NEM NATIONAL ELECTRICAL CODE NIGHTLIGHT NEVADA ENERGY UNLESS NOTED OTHERWISE MITH WEATHERPROOF (NEMA 3R) TRANSFORMER SHEET NOTE LIGHT FIXTURE DESIGNATION & WATTAGE. SEE FIXTURE SCHEDULE MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL & PLUMBING PLANS FEEDER - SIZE AS INDICATED ON SINGLE LINE DIAGRAM DETAIL DESIGNATION - "B" INDICATES DETAIL # ON SHEET E3.1 NOTE: ALL MOUNTING HEIGHTS AS INDICATED UNLESS NOTED OTHERWISE.

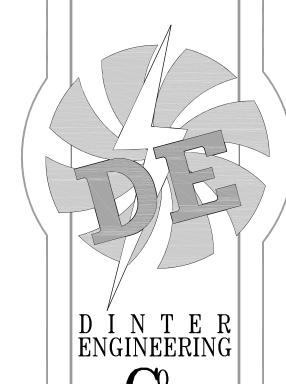
- ELECTRICAL GENERAL NOTES.
- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ADOPTED VERSION OF THE IBC AND NEC, AND ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEMA, ANSI, NFPA, UL, IEEE, NECA AND UTILITY COMPANY STANDARDS.
- 2. FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
- 3. INCIDENTAL ITEMS NOT INDICATED ON DRAWINGS OR MENTIONED IN THE SPECIFICATIONS THAT CAN BE REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED TO PROVIDE A COMPLETE WORKING SYSTEM, SHALL BE FURNISHED AND INSTALLED.
- 4. APPEARANCE AND WORKMANSHIP SHALL BE OF THE HIGHEST STANDARDS OF QUALITY ANALOGOUS TO THE JOB.
- 5. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL PROJECT ACCEPTANCE.
- 6. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, WHICH MAY AFFECT HIS WORK, PRIOR TO SUBMITTING A BID. NO ADDITIONAL PAYMENT WILL BE MADE FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- 1. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE PLANS, SPECIFICATIONS AND WORK OF ALL OTHER TRADES AND UTILITY COMPANIES. NO EXTRA PAYMENT WILL BE MADE FOR WORK OR MATERIALS RESULTING FROM LACK OF COORDINATION.
- 8. ALL EQUIPMENT, MATERIALS, AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE A NEAT AND COMPLETE SET OF 'AS-BUILT' DRAWINGS WITHIN 30 DAYS OF FINAL PROJECT ACCEPTANCE OF HIS WORK. 'AS-BUILT' DRAWINGS SHALL BE 'RED-LINES' OR AS REQUIRED IN THE GENERAL SPECIFICATIONS.
- 10. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURES DATA FOR SWITCHGEAR, LIGHTING FIXTURES, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PORPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOBSITE. ANY SUBSTITUTIONS SHALL BE OF EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
- 11. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF MECHANICAL EQUIPMENT VERIFY THE VOLTAGE, PHASE AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN FURNIISHING. THE ITEM SUCH THAT THE PROPER SIZE AND RATING OF THE MATERIALS ARE PURCHASED. NO EXTRA COSTS WILL BE ALLOWED FOR FAILURE TO COMPLY.
- 12. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL, NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
- 13. ELECTRICAL EQUIPMENT SUCH AS SWITCHGEAR, PANELBOARDS, ETC. SHALL BE AS MANUFACTURED BY CHALLENGER, CUTLER HAMMER, GE, ITE, SQUARE-D, OR WESTINGHOUSE. SWITCHBOARD TO BE FULLY ENCLOSED AND FACTORY ASSEMBLED. PANELBOARDS TO HAVE BOLT-IN CIRCUIT BREAKERS ONLY.
- 14. PROVIDE ALL ELECTRICAL SUITCHGEAR SUCH AS SUITCHBOARDS, TRANSFORMERS, MOTOR CONTROL CENTERS, PANELBOARDS, DISCONNECT SUITCHES, ETC. WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING IDENTIFICATION DESIGNATION, EQUIPMENT SERVED, AND FROM WHERE IT IS FED.
- 15. PROVIDE AND MOUNT ALL FREESTANDING ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, TRANSFORMERS, ENCLOSED BREAKERS, ETC. ON A 4" HIGH CONCRETE HOUSEKEEPING PAD.
- 16. SHORT CIRCUIT INTERRUPTING CAPACITIES AS INDICATED ON THESE PLANS REFER TO BOTH BUSS BAR BRACING LEVELS AND TO CIRCUIT BREAKER WITHSTAND LEVELS.
- 17. SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
- 18. PROVIDE ALL PANELBOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO FINALIZATION.
- 19. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT AND LIGHT POLE CONCRETE FOOTINGS PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURES APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- 20. DRAWINGS ARE EXPLANATORY AND CAN NOT SHOW EVERY CONDUIT, CONNECTION, JUNCTION BOX, ETC. EXACT LOCATION OF EQUIPMENT AND PARTS WILL BE DETERMINED DURING CONSTRUCTION.
- 21. CONDUIT/CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT TIME OF CONSTRUCTION AND APPROVED BY THE CITY PROJECT MANAGER.
- 22. ELECTRICAL WORK SHALL BE WELL ORGANIZED WITH CONDUIT RUNS RUNNING PARALLEL AND WITH MAXIMUM OVERHEAD CLEARANCE. ARRANGE ALL ELECTRICAL WITH ADEQUATE ACCESS FOR OPERATION AND MAINTENANCE. LOCATE ALL CONTROL EQUIPMENT TO PROVIDE EASY ACCESS. COORDINATE THE PLACEMENT AND REQUIRED ACCESS OF LARGE ELECTRICAL EQUIPMENT WITH APPROPRIATE TRADES.
- 23. THE GROUNDING SYSTEM MUST BE GROUNDED ACCORDING TO NEC 250, AND CONNECTED TO ALL ITEMS AS LISTED IN NEC 250.
- 24. TYPE MC OR TYPE AC CABLE AND ENT TYPE CONDUIT ARE NOT ALLOWED.
- 25. ALL WIRE SHALL BE COPPER THUN, THHN, OR XHHW UNLESS OTHERWISE NOTED. WHERE ALUMINUM WIRE IS PERMITTED, CONDUCTORS SHALL TERMINATE IN COMPRESSION TYPE LUGS.
- 26. ALL UNDERGROUND CONDUIT SHALL BE WRAPPED RIGID STEEL WITH THREADED COUPLINGS AND CONNECTORS, AND/OR PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE RIGID STEEL CONDUIT.
- 27. PROVIDE ALL TRENCHING, EXCAVATION, BACKFILLING, SHORING, PUMPING, COMPACTION TESTS, ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.

- 28. THESE PLANS <u>DO NOT</u> PURPORT TO SHOW ALL EXISTING CONDITIONS, ANY OUTLETS, CIRCUITING AND/OR DEVICES THAT CONFLICT WITH ALL WORK BEING PERFORMED DURING THE COURSE OF THIS PROJECT SHALL BE RELOCATED/REROUTED OR REMOVED ENTIRELY AS DICTATED BY THE PROJECT MANAGER.
- 29. LIGHTING EQUIPMENT SHOWN ON THE CITY-APPROVED PLANS SHALL NOT BE ALTERED OR SUBSTITUTED IN ANY WAY (MANUFACTURER, WATTAGE, COLOR, MOUNTING, ETC.) WITHOUT FIRST SUBMITTING REVISED LIGHTING AND PHOTOMETIC PLANS TO THE PROJECT MANAGER FOR REVIEW AND WRITTEN APPROVAL.
- 30. THE CONTRACTOR IS TO SCHEDULE A NIGHTTIME INSPECTION OF THE ENERGIZED LIGHTING, TO ATTEND THIS INSPECTION, AND TO CORRECT ALL ITEMS IDENTIFIED DURING INSPECTION PRIOR TO ISSUING THE FINAL PROJECT ACCEPTANCE BY THE PROJECT MANAGER.
- 31. UTILITIES SHOWN TO BE DEMOLISHED SHALL NOT BE REMOVED FROM SERVICE UNTIL EITHER OF THE FOLLOWING EVENTS OCCUR: A) THE FACILITY SERVED BY THE UTILITY IS NO LONGER OCCUPIED AND IS READY FOR DEMOLITION. OR B) EQUIVALENT SERVICE BY NEW UTILITY CONSTRUCTION HAS BEEN PROVIDED TO THE FACILITY CURRENTLY SERVICED. UNLESS OTHERWISE NOTED.
- 32. VERIFY EXACT LOCATION OF ALL RECEPTACLES ABOVE OR ADJACENT TO COUNTERS FIXTURES MIRRORS AND OUTDOOR FIXTURES AND MOUNTING HEIGHTS AND LOCATIONS OF ALL FIXTURES AND BACK BOXES PRIOR TO ROUGH-IN. NO EXTRA COSTS WILL BE ALLOWED FOR FAILURE TO COMPLY.
- 33. ALL RECEPTACLES SHALL MATCH THE MALE PLUG CONNECTOR OF ALL EQUIPMENT PROVIDED, VERIFY PRIOR TO PURCHASE. SEE GENERAL NOTE #11.
- 34. PULL ROPES: PROVIDE 12 GA PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN ALL EXTERIOR EMPTY CONDUIT OR DUCT RUNS.
- 35. ANY POWER OUTAGE OF ANY CIRCUIT SHALL BE APPROVED BY THE PROJECT MANAGER IN WRITING A MINIMUM OF TWO WEEKS PRIOR TO OUTAGE. ALL OUTAGES SHALL BE DONE EXACTLY WHEN DETERMINED BY THE PROJECT MANAGER AND DONE BEFORE OR AFTER WORKING HOURS OR ON WEEKENDS. NO SINGLE OUTAGE SHALL REQUIRE MORE THAT 4 HOURS. PROVIDE TEMPORARY POWER, HEATING OR COOLING IF REQUIRED DURING OUTAGE.

|            | LIGHT FIXTURE SCHEDULE  |                       |       |
|------------|---|-----------------------|-------|
| SYM        | DESCRIPTION & MANUFACTURER  | LAMPS                 | ∨OLTS |
| BI 100     | SPORTS CUT-OFF FORWARD THROW FLOODLIGHT, 65' POLE, DARK BRONZE POWDER COAT. 1000 WATT HI PRESSURE SODIUM SOFT LIGHTING * SFT-FT-1000HPS | (1) \$52XB-1000       | 480   |
| B2<br>1100 | SPORTS CUT-OFF FORWARD THROW FLOODLIGHT, 65' POLE, DARK BRONZE POWDER COAT. 1000 WATT METAL HALIDE SOFT LIGHTING * SFT-FT-1000MH        | (1) M47PA-<br>-1000/U | 480   |
| B3<br>300  | CUTOFF SECURITY LIGHT, DARK BRONZE POWDER COAT. 250 WATT H.P.S.<br>SOFT LIGHTING * SFT-3-250 H.P.S.                                     | (1) \$50VA-250        | 480   |
|            |   |                       |       |
|            |   |                       |       |
|            |   |                       |       |
|            |   |                       |       |

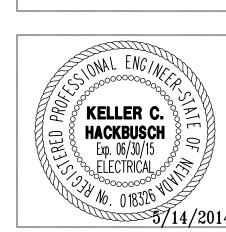
|    |                              |        | В         | SMX TRAC  | K         |       |                        |  |  |  |  |
|----|------------------------------|--------|-----------|-----------|-----------|-------|------------------------|--|--|--|--|
|    | POLE AND FLOODLIGHT SCHEDULE |        |           |           |           |       |                        |  |  |  |  |
|    | POLE                         | LENGTH | HPS-1000W | MH-1000W  | HPS-300W  | TOTAL | DETAILS                |  |  |  |  |
|    | NUM.                         |        | TYPE 'BI' | TYPE 'B2' | TYPE 'B3' | FIX.  |                        |  |  |  |  |
|    | BI                           | 65'    | 2         | 3         | 1         | 6     | 1/E2.1 \$ 2/E2.1       |  |  |  |  |
| ** | B2                           | 65'    | n         | 4         | 1         | 8     | 1/E2.1 & 2/E2.1        |  |  |  |  |
|    | <b>B</b> 3                   | 65'    | 2         | 3         |           | 5     | 1/巨2.1 4 2/巨2.1        |  |  |  |  |
|    | B4                           | 65'    | 2         | 3         |           | 5     | 1/E2.1 <b>₫</b> 2/E2.1 |  |  |  |  |
|    | B5                           | 65'    | 2         | 3         |           | 5     | 1/E2.1 \$ 2/E2.1       |  |  |  |  |
|    | В6                           | 65'    | 2         | 3         | 1         | 6     | 1/E2.1 \$ 2/E2.1       |  |  |  |  |
|    |                              |        |           |           |           |       |                        |  |  |  |  |
|    |                              |        |           |           |           |       |                        |  |  |  |  |
|    |                              |        |           |           |           |       |                        |  |  |  |  |
|    | TOTA                         | L      |           |           |           |       |                        |  |  |  |  |

\*\* ONE TYPE 'BI' AND TYPE 'B2' FIXTURE ON BACKSIDE OF LIGHT POLE.



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EDMONDS SPORTS COMPLEX
BMX TRACK LIGHTING PROJECT
CARSON CITY PARKS AND RECREATION DEPARTMENT
1555 LIVERMORE LANE CARSON CITY, NV.



REVISION:

JOB NO.: J-4144.1

DESIGN: MUB

DRAWN: MUB

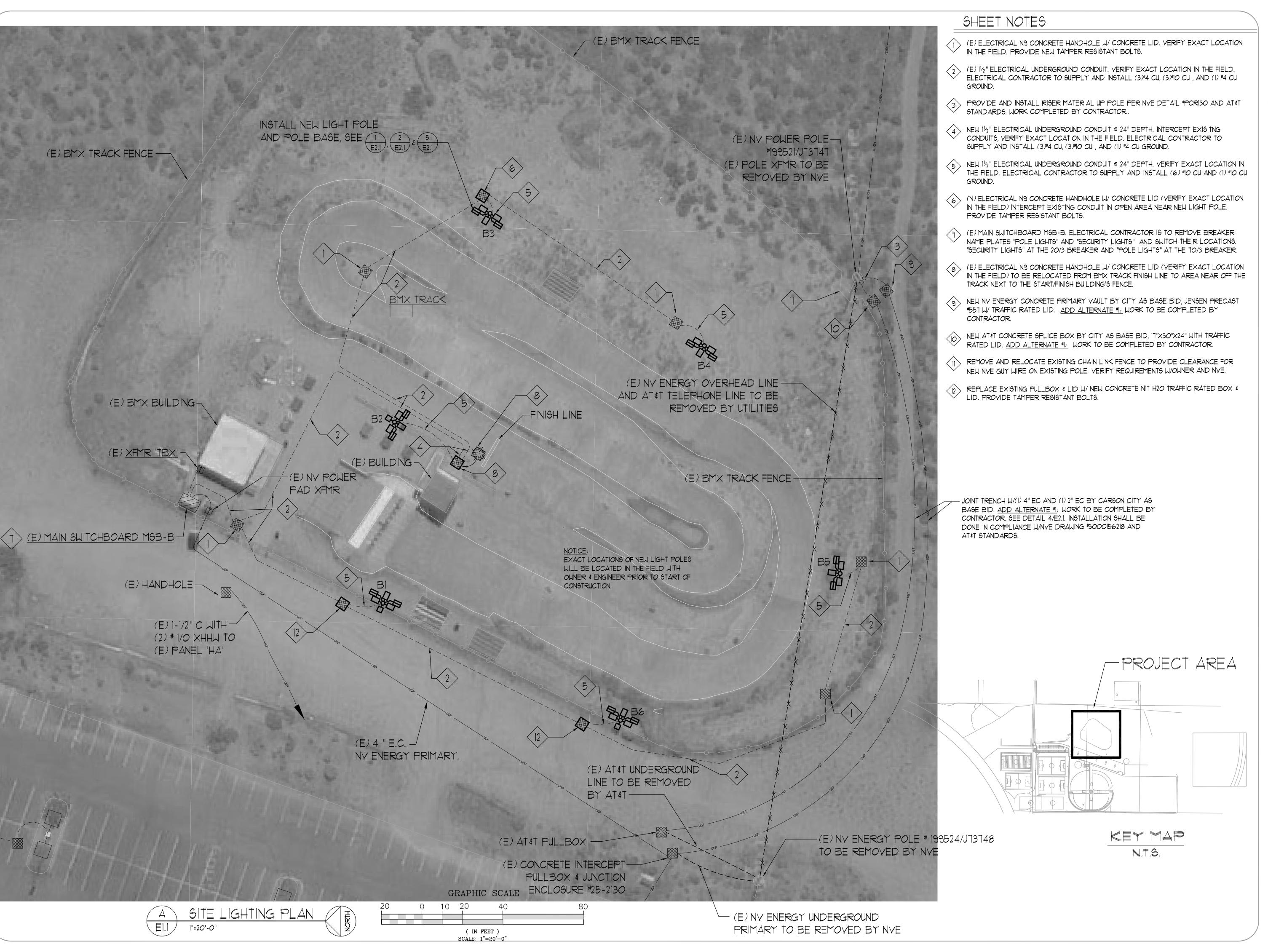
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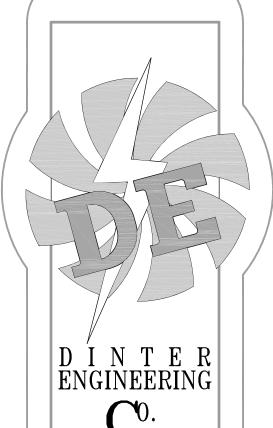
DATE: 14 MAY 2014

SYMBOL LIST, SCHEDULES AND GENERAL NOTES

SHEET NO.:

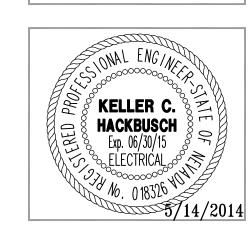
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SITE LIGHTING PLAN

SHEET NO.:

E1.1

# B2 1100 POLES BI & B6 ONLY (B3) BI (TYP.)

### POLES BI & B3 THRU B6 AN & ELEVATION - FIVE FLOOD LIGHTS

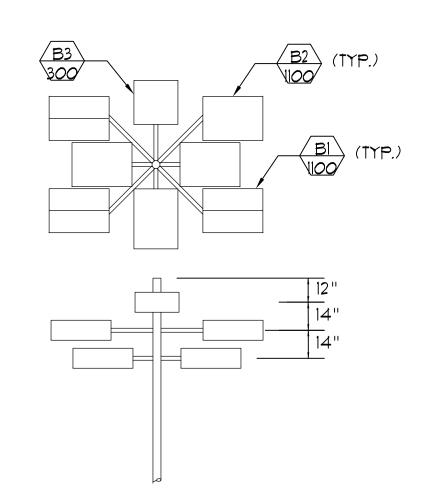
NO SCALE (BMX TRACK)

(5) EXISTING DIGITAL ASTRODIAL TIME SWITCH W/RESERVE

(6) EXISTING TOGGLE SWITCH ON EXTERIOR OF MSB IN

NEMA 3R BOX W/LOCKABLE COVER.

POWER SPRING, 277VOLTS



### UNLESS OTHERWISE SPECIFICALLY SHOWN OR NOTED

I. GENERAL A. THE FOLLOWING GENERAL NOTES APPLY TO ALL STRUCTURAL DRAWINGS

CIVIL ENGINEER'S POLE BASE NOTES

B. ALL PHASES OF WORK TO CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE 2012 INTERNATIONAL BUILDING CODE.

C. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION SUCH MEASURES SHALL INCLUDE. BUT NOT LIMITED TO, PREPARING AND FOLLOWING THE WRITTEN SAFETY PROGRAM FOR THE CONSTRUCTION PROJECT, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, AND ALL RETAINING WALLS ALL OSHA REGULATIONS CONCERNING ERECTION SHALL BE STRICTLY ADHERED TO.

D. OPENINGS, POCKETS, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

E. ALL ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.

F. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ENGINEER.

G. IN THE EVENT THAT CERTAIN EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE SHOWN ON THE PLANS AND DETAILS, THEN THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED SO THAT THE PROPER REVISIONS CAN BE MAKE IF NECESSARY

H. NO CHANGES OR DEVIATIONS FORM THE PLANS AND SPECIFICATIONS WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.

### II. FOUNDATIONS

A. FOOTINGS HAVE BEEN DESIGNED USING AN ASSUMED ALLOWABLE LATERAL BEARING VALUE OF 150 PSF PER FOOT INCREASED BY A FACTOR OF 2 AS ALLOWED BY 2012 IBC SECTION 1804.3.1. THE CONTRACTOR SHALL VERIFY THAT SOILS ARE ADEQUATE TO PROVIDE ASSUMED LATERAL BEARING VALUES PRIOR TO CONSTRUCTION.

### III. CONCRETE

A. REINFORCED CONCRETE WORK SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2012 EDITION, AND ACI STANDARD 318.

B. CEMENT SHALL CONFORM TO ASTM CI50 TYPE II. COMPRESSION STRENGTH OF ALL EXTERIOR REINFORCED CONCRETE SHALL NOT BE LESS THAN 4000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE AND SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.45. DESIGN IS BASED ON A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.

C. CONCRETE SLUMP SHALL NOT EXCEED 4" WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD NO. C143 FOR FOOTINGS, SLABS, BEAMS AND GIRDERS AND 5" FOR CAST-IN-PLACE WALLS AND COLUMNS.

D. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615 GRADE 60 U.N.O. ALL REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM ATO6. SUPPORTS AND ACCESSORIES SHALL BE FURNISHED AS SHOWN OR REQUIRED. CHAIRS PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED OR PROVIDED WITH PLASTIC FEET.

E. MINIMUM COVERAGE FOR REINFORCING SHALL BE THE CLEAR DISTANCE TO THE FACE OF BARS AS FOLLOWS: 3" WHEN CONCRETE IS POURED AGAINST EARTH, 1/2" FOR #5 AND SMALLER BARS FROM FORMED SURFACES EXPOSED TO GROUND OR WEATHER 2" FOR #6 AND LARGER BARS FROM FORMED SURFACES EZPOSED TO GROUND OR WEATHER

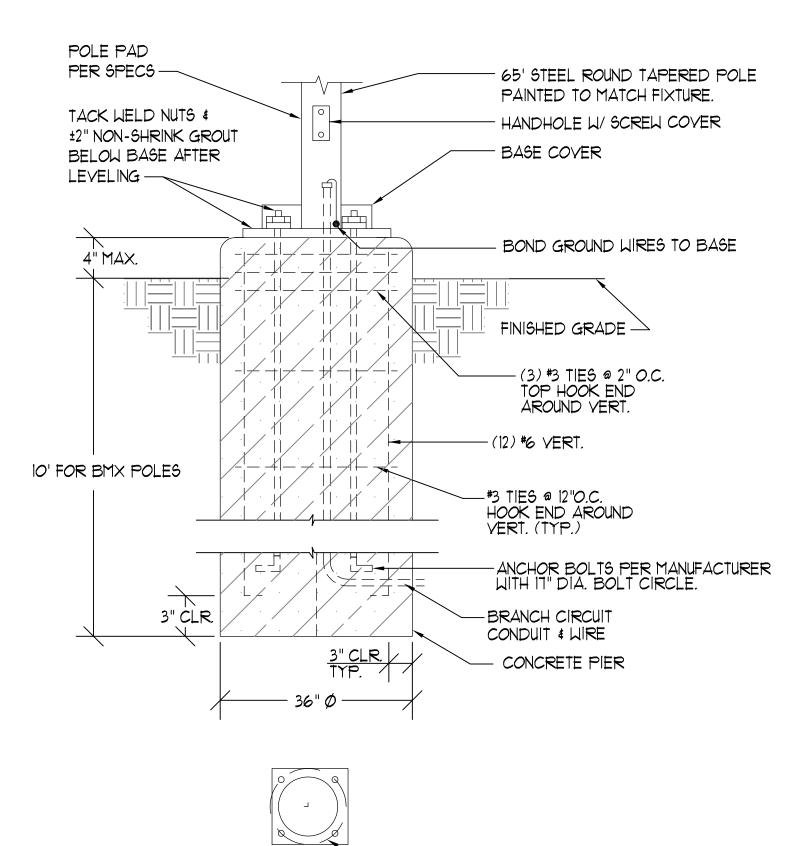
F. ALL REINFORCING STEEL SHALL BE ACCURATELY POSITIONED AND ADEQUATELY TIED USING PROPER CHAIRS OR BOLSTERS PRIOR TO POURING CONCRETE.

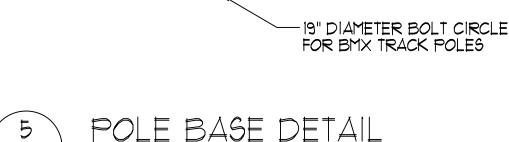
G. SPLICES IN REINFORCEMENT SHALL NOT BE MADE AT OR NEAR POINTS OF MAXIMUM STRESS. SPLICES SHALL BE LAPPED NOT LESS THAN 63 DIAMETERS.

H. ALL CONCRETE EDGES, CORNERS AND INTERSECTIONS SHALL BE TOOLED OR CHAMFERED NO LESS THAT 3/4" WHETHER SHOWN OR NOT ON THE DRAWINGS.

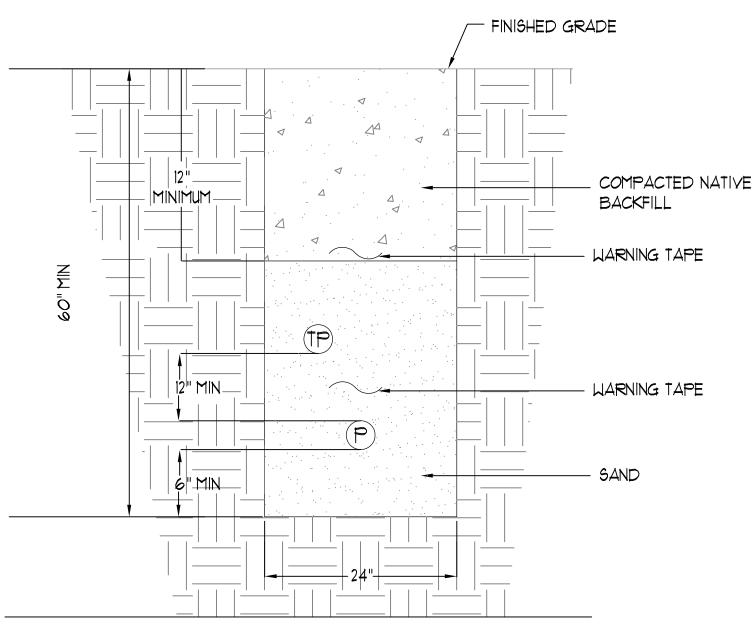
I. CONSTRUCTION JOINTS WILL NOT BE PERMITTED, EXCEPT AS SHOWN ON THE DRAWINGS, WITHOUT WRITTEN CONSENT OF THE ENGINEER

J. NON-SHRINK GROUT OR DRY PACK: A PERMIXED MON-METALLIC FORMULA HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT EXPANSION AFTER SET (ASTM C-827), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C-109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C-1911). PROVIDE "SUPREME", U.S. GROUT CORP., "5 STAR GROUT", BURKE CO., "324", CLIFFORD HILL, OR EQUIVALENT. MINIMUM f'c AT 28 DAYS = 5000 PSI.



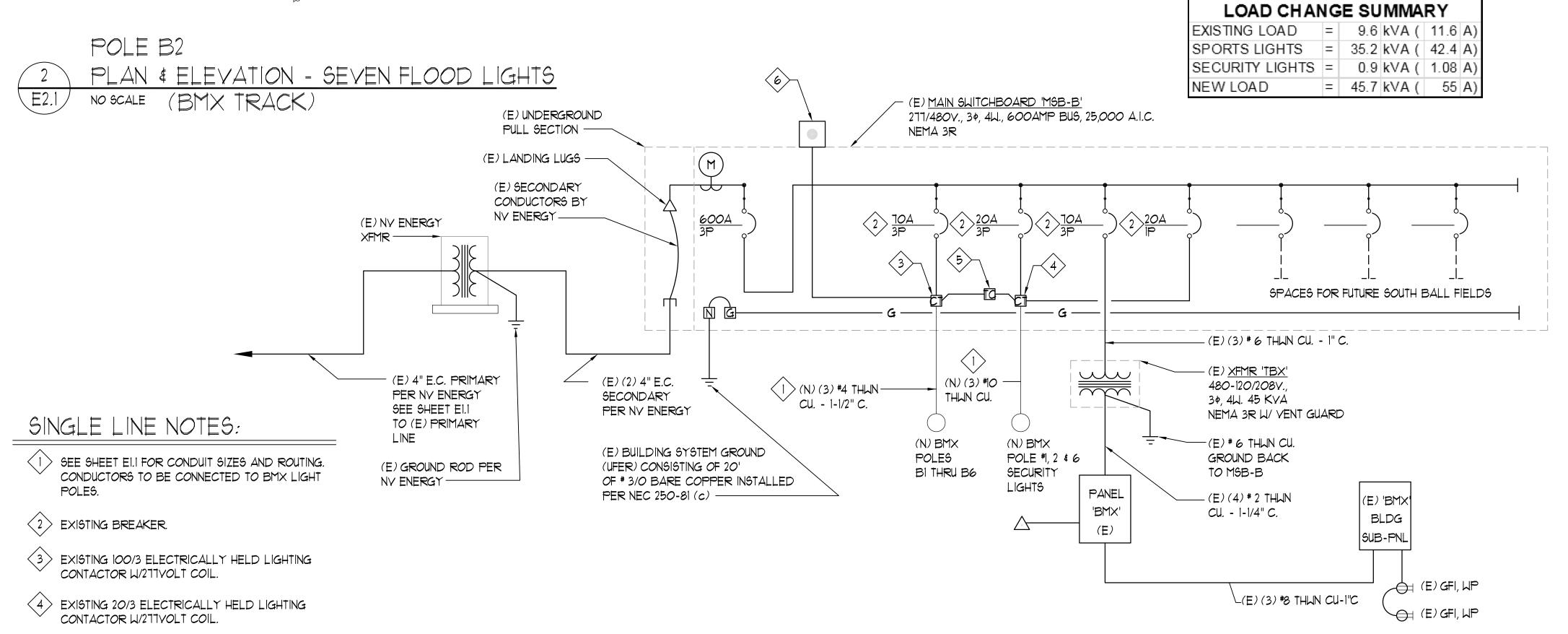


NO SCALE FOR BMX POLES



TRENCH DETAIL NOTICE: TRENCH INSTALLATION SHALL COMPLY WITH NYE DETAIL #TE00034

JOINT UTILITIES TRENCH NO SCALE



EXISTING BMX TRACK SINGLE LINE DIAGRAM

NO SCALE (BMX TRACK)

EDMONDS S
BMX TRACK I
CARSON CITY PARKS
1555 LIVERMORE ONAL ENGINA KELLER C. HACKBUSCH Exp. 06/30/15 ELECTRICAL 1934 Mo. 018376 REVISION: \_\_\_

DINTER

**ENGINEERING** 

MECHANICAL.

ELECTRICAL,

**ELECTRICAL** 

CONSULTING

**ENGINEERS** 

89502-4608

385 GENTRY WAY

RENO, NEVADA

(775)826-4044FAX 826-4190]

www.dinter.com

COMPLEX
IG PROJECT
ION DEPARTMENT
ON CITY, NV.

GHTING

SPORT

AIRFIELD

AND

CHECK: ERG DATE: 14 MAY 2014 ELECTRICAL DETAILS

AND EXISTING SINGLE

LINE DIAGRAM

J-4144.1

MWB

GLR

SHEET NO .:

JOB NO.:

DESIGN:

DRAWN:

**E2.**1

Carson City - Edmonds Sports Complex BMX Track
Engineers: Dinter Engineering, Inc. - Ed Gansberg, P.E.
Design Level: 30 Footcandles Average Maintained
USING 0.8 Maintenance Factor and
0.85 Design Factor

| <sup>+</sup> 0.0 | <sup>†</sup> 0.0  | <sup>†</sup> 0.0 | <sup>†</sup> 0.0  | <sup>†</sup> 0.0     | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 | <sup>†</sup> 0.0 | <sup>†</sup> 0.0 | <sup>†</sup> 0.0 |
|------------------|------------------|------------------|------------------|------------------|---|------------------|-------------------|----------------------|------------------|------------------|------------------|------------------|------------------|
| <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 | <sup>†</sup> 0.1 | <sup>†</sup> 0.1  | <sup>†</sup> 0.1 | <sup>†</sup> 0.2  | <sup>†</sup> 0.1     | <sup>†</sup> 0.1 | <sup>†</sup> 0.1 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 |
| <sup>+</sup> 0.0 | <sup>+</sup> 0.1 | <sup>†</sup> 0.2 | <sup>†</sup> 0.3 | <sup>†</sup> 0.8 | <sup>+</sup> 2.0  | <sup>+</sup> 3.0 | <sup>+</sup> 2.0  | † <b>.</b> 3         | <sup>†</sup> 0.9 | <sup>†</sup> 0.2 | <sup>+</sup> 0.1 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 |
| <sup>+</sup> 0.0 | <sup>†</sup> 0.1 | †o./4            | 2.0              | <sup>+</sup> 7.8 | † 9 . 8<br>• EASTERN  | 10.7             | <sup>+</sup> 13.1 | 14.9                 | <sup>‡</sup> 7.9 | 1.8              | <sup>+</sup> 0.2 | <sup>†</sup> 0.0 | <sup>+</sup> 0.0 |
| <sup>†</sup> 0.1 | <sup>†</sup> 0.2 | 0.6              | ÷3.7             | BMX TRA          | <sup>+</sup> 34 <sup>+</sup> 36 ACK <sup>+</sup> 42 <sup>+</sup> 41 | 23 19            | 30 37             | †34 †21<br>†43   /41 | <b>B</b> 5       |                  | <sup>†</sup> 0.7 | <sup>†</sup> 0.1 | <sup>†</sup> 0.0 |
| <sup>†</sup> 0.1 | <sup>†</sup> 0.2 | 0.8              | 4.7              | 26               | 47 56<br>B2   | 52 41            |                   | 42 41                | 36               |                  | <sup>+</sup> 2.0 | <sup>†</sup> 0.1 | <sup>†</sup> 0.0 |
| <sup>+</sup> 0.1 | <sup>†</sup> 0.2 | 7                | <sup>+</sup> 2.2 |                  | †42 †54<br>21 <b>†</b> 41   | †48 †34          | 4 30              | 36 39<br>36 39       | 22               |                  | <sup>+</sup> 1.1 | <sup>†</sup> 0.1 | <sup>+</sup> 0.0 |
| <sup>+</sup> 0.0 | <sup>†</sup> 0.1 | <sup>†</sup> 0.3 | 0.9              |                  | /28<br>B1   | 35 24            | 4 20              | 28 32<br>B6          | ±<br>18          | ٠                | <sup>†</sup> 0.6 | <sup>†</sup> 0.1 | <sup>†</sup> 0.0 |
| <sup>†</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.1 | <sup>†</sup> 0.3 | <sup>†</sup> 1.5 | 5.6   | 9.5              | 6.9               | <sup>+</sup> 7.9     | <sup>+</sup> 7.0 | 0.9              | <sup>†</sup> 0.2 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 |
| <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.1 | <sup>†</sup> 0.2 | <sup>+</sup> 0.4  | <sup>†</sup> 0.6 | <sup>†</sup> 0.9  | <sup>†</sup> 0.7     | <sup>+</sup> 0.4 | <sup>†</sup> 0.2 | <sup>+</sup> 0.1 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 |
| <sup>†</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 | <sup>†</sup> 0.1  | <sup>†</sup> 0.1 | <sup>†</sup> 0.1  | <sup>†</sup> 0.1     | <sup>†</sup> 0.1 | 0.0              | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 |
| <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 | <sup>†</sup> 0.0  | <sup>†</sup> 0.0 | <sup>+</sup> 0.0  | <sup>+</sup> 0.0     | 0.0              | 0.0              | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 |
| <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 | <sup>+</sup> 0.0  | <sup>+</sup> 0.0 | <sup>†</sup> 0.0  | <sup>+</sup> 0.0     | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 | <sup>+</sup> 0.0 | <sup>†</sup> 0.0 | <sup>+</sup> 0.0 |

|          | Lumi    | Luminaire Schedule |        |   |     |           |        |  |  |  |
|----------|---------|--------------------|--------|---|-----|-----------|--------|--|--|--|
|          | Proje   | Project: Project_1 |        |   |     |           |        |  |  |  |
|          | Label   |                    | Qty    |   | Des | scription |        |  |  |  |
|          | Soft3-  | 2                  | 5      |   | 3 N | IH 2 HPS  |        |  |  |  |
|          | BMX     |                    | 1      |   | Spe | cial      |        |  |  |  |
| Lumina   | ire Loc | ation Su           | ımmary |   |     |           |        |  |  |  |
| Project: | Projec  | t_1                |        |   |     |           |        |  |  |  |
| Label    |         | X                  | Y      | Z |     | Orient    | Status |  |  |  |

|    | Eumman e Eoc    |     | y   |    |        |        |
|----|-----------------|-----|-----|----|--------|--------|
|    | Project: Projec | t_1 |     |    |        |        |
|    | Label           | X   | Y   | Z  | Orient | Status |
| В5 | Soft3-2         | 313 | 131 | 64 | 220    | On     |
| В4 | Soft3-2         | 143 | -4  | 64 | 90     | On     |
| В3 | Soft3-2         | 275 | -1  | 64 | 115    | On     |
| B1 | Soft3-2         | 230 | 175 | 64 | 265    | On     |
| В6 | Soft3-2         | 100 | 180 | 64 | 285    | On     |
| B2 | BMX             | 108 | 92  | 64 | 340    | On     |
|    |                 |     |     |    |        |        |

4 MH, 3 HPS

| Calculation Summary |             |       |       |      |      |     |         |      |  |  |  |
|---------------------|-------------|-------|-------|------|------|-----|---------|------|--|--|--|
| Label               | CalcType    | Avg   | Units | CV   | Max  | Min | Max/Min | UG   |  |  |  |
| BMX Track           | Illuminance | 35.28 | Fc    | 0.27 | 56   | 18  | 3.11    | 2.00 |  |  |  |
| Spill Light         | Illuminance | 1.15  | Fc    | N.A. | 19.8 | 0.0 | N.A.    | N.A. |  |  |  |
| Spill Light         | Illuminance | 0.78  | Fc    | N.A. | 9.5  | 0.0 | N.A.    | N.A. |  |  |  |

Soft Lighting Systems, Inc.

2224 - 137th Place S.E.

Bellevue, WA 98005-4032

Phone: 425.679.6550

Cell: 206.601.7312

Email: softlite@softlite.com

KELLER C.
HACKBUSCH
Exp. 06/30/15
ELECTRICAL

6. 018326

5/14/2014

EDMONDS SPORTS COMPLEX
BMX TRACK LIGHTING PROJECT
CARSON CITY PARKS AND RECREATION DEPARTMENT
1555 LIVERMORE LANE CARSON CITY, NV.

D I N T E R ENGINEERING

MECHANICAL, ELECTRICAL, AND AIRFIELD ELECTRICAL CONSULTING ENGINEERS

385 GENTRY WAY RENO, NEVADA 89502-4608 (775)826-4044 [FAX 826-4190] www.dinter.com

REVISION:

JOB NO.: J-4144.1
DESIGN: MUB
DRAWN: MUB
CHECK: ERG
DATE: 14 MAY 2014

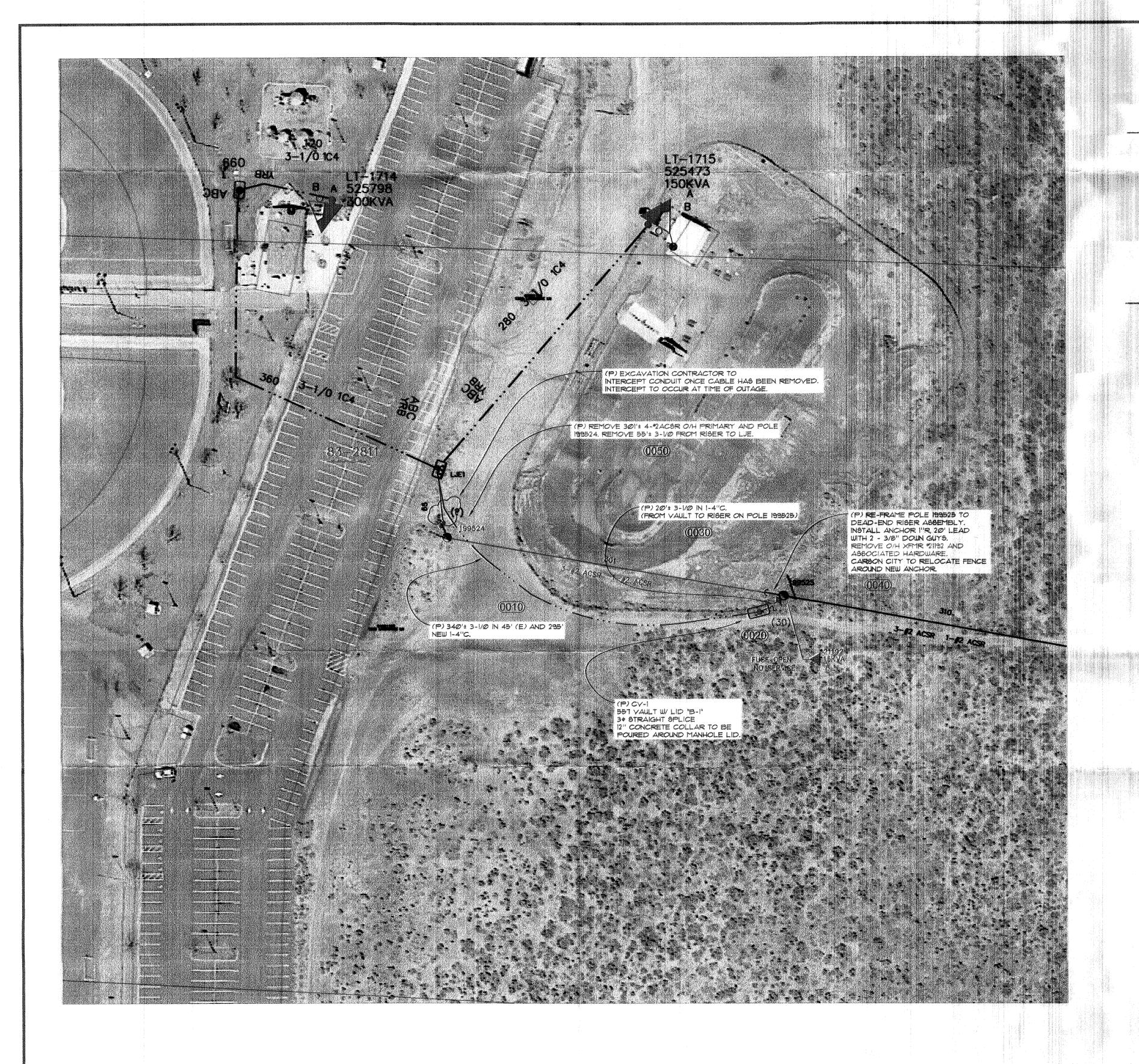
SOFT LIGHTING SYSTEMS PHOTOMETRIC PLAN

SHEET NO.:

E3.

A SOFT LIGHTING SYSTEMS PHOTOMETRIC PLAN
E3.1) NO SCALE





### NY ENERGY TO FURNISH AND / OR INSTALL:

APPROX. 360 CKT. FT. 25 KV 3+ U/G PRIMARY C/O 3-1/0 CABLE IN 45' OF (E) AND 315' OF NEW 1-4"C (CONDUIT BY

1 - ANCHOR C/O 1"R, 20"L AND 2 - 3/8" E.H.S. DOWN GUY(5).

PRIMARY RISER MATERIAL TO CONSIST OF STAND OFF BRACKET(S) AND LAG SCREWS ONLY. (ALL RISER CONDUIT SUPPLIED BY CONTRACTOR)

### APPLICANT TO FURNISH AND / OR INSTALL:

- 1 551 CABLE VAULT 49"X79"X61" I.D. WITH LID "B-1" FER NYE. 5TD. YB-00TIL
- · (LID 'A' H-10 RATED, LID 'B' H-20 RATED EQUIPTIENT, LID 'B-1" H-20 RATED 3' MANHOLE,

### ---- \* PROPOSED APPROX 35 FT. 4" PVC CONDUIT.

# (ABOVE FOOTAGE DOES NOT INCLUDE SWEEP(S) OR RISER(S) FOR SECONDARY BOX(ES), TRANSFORMER(S), JUNCTION ENCLOSURE(S), ETC.)

APPLICANT IS RESPONSIBLE FOR MANDRILING CONDUIT AND INSTALLING A PULL LINE THAT MEETS OR EXCEEDS THE FOLLOWING REQUIREMENTS:

- THE PULL LINE WILL BE OF A FLAT DESIGN
- SHALL HAVE A MINIMUM BREAKING STRENGTH OF 400 LBS.
- . WILL HAVE SECRENTIAL POOTAGE MARKINGS
- EXAMPLES OF PULL LINES THAT MEET THESE REQUIREMENTS (NVE. 5TK 95-1365)
- . NEPTCO "MILE TAPE" (UP400P)
- CONDUX INTERNATIONAL (000%203)
- . SEE NYE VOLUME IT, SECTION 4-CD0000LL

RISER MATERIAL C/O 4" GALVANIZED STEEL SWEEP, 10" OF 4" GALVANIZED STEEL CONDUIT ALONG WITH COUPLING ADAPTER AND 30' OF SCHEDULE 40 CONDUIT. STAND-OFF BRACKETS AND LAG SCREWS BY NVE. (NVE TO INSTALL 30' OF SCHEDULE 40 CONDUIT ONLY)

BEFORE INSTALLATION OF THE UTILITY FACILITIES AND IF NO PUBLIC UTILITY EASEMENTS EXIST, THE OWNER OF RECORD SHALL SIGN APPROPRIATE EASEMENT DOCUMENTS. ALL SERVICE CONDUITS TO BE STUBBED 10' MINIMUM FROM TRANSFORMER PADS AND SECONDARY BOXES AT THE SAME TIME AS MAIN LINE INSTALLED PER NVE STOS VOLUME IT. (TE0020U)

### GENERAL COMMENTS:

CALL CARSON ELECTRIC UNDERGROUND (888-999-556) 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH

(INCLUDE WORK ORDER NUMBER, ALONG WITH NAME AND PHONE NUMBER OF PROJECT FOREMAN, IN YOICE MESSAGE)

### ALL SECONDARY BOXES AND PRIMARY VAULTS SHALL BE TO FINISH GRADE.

ALL MATERIAL SHALL BE ON THE JOB SITE PRIOR TO THE START OF ANY WORK BY NVE.

REFER TO NIVE STDS. CLOSOPH FOR FURTHER CLARIFICATION OF DETAILS.

### COMPACTION TESTS REQUIRED FER NVE. STD. SUBØX.

NO TREE SHALL BE PLANTED UNDER OR ADJACENT TO ENERGIZED POWER LINES WHICH, AT MATURITY, SHALL GROW WITHIN 10 FEET OF THE ENERGIZED CONDUCTORS. NOR SHALL ANY PERMANENT STRUCTURE, FENCE, SHRUB OR TREE BE PLANTED CLOSER THAN 10 FEET IN FRONT AND 3 FEET FROM ALL OTHER SIDES OF A PAD MOUNTED TRANSFORMER.

NOTE: DEVELOPER IS RESPONSIBLE FOR ADHERENCE TO NY ENERGY GAS AND ELECTRIC STANDARDS. CONSTRUCTION STANDARDS CAN BE FOUND ON-LINE AT THE FOLLOWING WEB SITE:

http://www.nvenergy.com/business/newconstruction.

THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC DISTRIBUTION GUIDE, VOL. IT AS CURRENTLY ADOPTED BY NVE. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

### NY ENERGY TO REMOVE:

POLE 199524 AND ASSOCIATED ANCHOR 55' 3-1/0 IN (E) 4" CONDUIT BETWEEN DIP POLE AND LJE SINGLE PHASE XFMR 21192 (IBKYA)

CUSTOMER TO CONTACT NEVADA BELL REGARDING ALTERATION OR REMOVAL OF NEVADA BELL'S FACILITIES.

|                     |             |              |                       | 2000000000             |      |    |
|---------------------|-------------|--------------|-----------------------|------------------------|------|----|
| DRAWING             | DE          | SIGNED BY    |                       |                        | DATE |    |
| BASE                |             |              |                       |                        |      |    |
| ELECTRIC            |             |              |                       |                        |      |    |
| GAS                 |             |              |                       |                        |      |    |
| SPREETLIGHT         |             |              |                       | (skinishringa)         |      |    |
|                     |             | REVIET       | IED BY:               |                        |      |    |
| Utility<br>Designer |             | Engineer     | Design<br>Focilitator | Cathodic<br>Protection |      |    |
| 1/1a/12             |             | A paper      | F1/19/12              |                        |      |    |
| NO. REVI            | SION        | DESCRIPTIONS |                       | T                      | DATE | DI |
|                     | Sant San    |              |                       |                        |      |    |
| 2                   |             |              |                       | 1                      |      |    |
| 3                   | <del></del> |              |                       | 4                      |      |    |
| .a≣                 |             |              |                       | - 3                    |      | 3  |



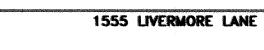


| Pax : 775 834-7305 NVEnergy Reno, NV. 89520-0024 |
|--|
| NV ENERGY CONTACT INFORMATION:                   |
| COORDINATOR: DARRYN CRAWFORD                     |
| OFFICE:  |
| CELL: # 775-848-5401                             |
| FAX: #   |
| EMAIL: DCRAWFORD@NVENERGY.COM                    |
| DESIGNER:  |
| ELECTRIC INSPECTION HOTLINE: # 775/834-7520      |

| CUSTOMER    | CONTACT INFORMATION: |
|-------------|----------------------|
|             |                      |
| CUSIOMER: _ | CITY OF CARSON CITY  |
| ATTENTION:  | TOM GRUNDY           |
| PHONE:_#    | 775-283-7081         |
| FAX: #      |                      |
| EMAIL:      | TGRUNDY@CARSON.ORG   |
|             |                      |
| CUST REP:_# | VERN KRAHN           |
| PHONE: #    | 775-283-7343         |
| EMAIL:      |                      |

| ZUJJ | <b>3</b> | IU-ZII- |  |
|------|----------|---------|--|
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|      | <b>1</b> |         |  |
|      | 22       |         |  |

**SOURCE INFORMATION:** 1250 CKT 12.5KV NORM OUT OF OVERLAND SUB



TOWNSHIP-RANGE-SECTION

VICINITY MAP (NTS)

E-1555 LIVERMORE LN - CIAC -OH TO UG - CITY OF CARSON CITY

| EXHIBIT "A" APPLICANT INSTALLED CONDUIT  ELECTRIC DESIGN | AUD | STL | GAS |         |
|--|-----|-----|-----|---------|
| SCALE: 1:50  | *   | *   | *   | #: 300  |
| SHEET#: E.1  |     |     |     | 0156218 |