

CITY OF DULUTH PARKING RAMP LIGHTING

DEPOT AND CONEY ISLAND RAMPS

DEPOT RAMP 6th Ave. WEST & MICHIGAN ST. - CONEY ISLAND RAMP 110 WEST FIRST ST. DULUTH MN.



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VICINITY MAP

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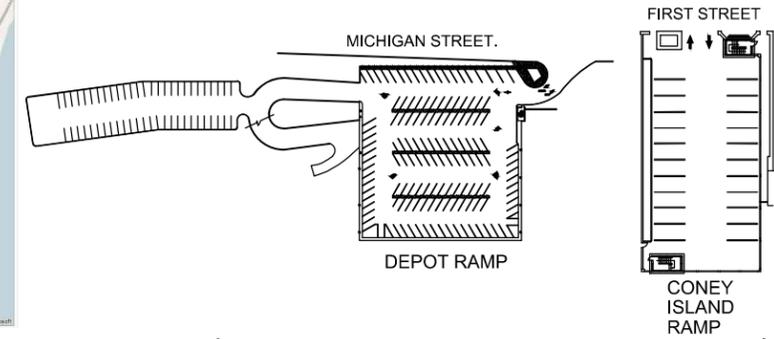
PROJECT LOCATION DEPOT RAMP

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PROJECT LOCATION CONEY ISLAND

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KEY PLAN

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DULUTH PARKING RAMP LIGHTING

DULUTH, MINNESOTA

PROJECT NO. 11-027

DATE 25-MAY-2011

DRAWN MPA

REVISIONS

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David Jordan
DAVID JORDAN 42696
ELECTRICAL ENGINEER REG. NO.

COV

PROJECT TEAM	
PROJECT OWNER	
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ELECTRICAL	
CONTACT: ELEC: DAVID JORDAN, P.E. ARCHITECTURAL RESOURCES, INC. 704 EAST HOWARD STREET HIBBING, MN 55746 PH (218) 263-6868 FAX (218) 722-6803 E-MAIL: david.jordan@arimn.com	

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COV	SHEET INDEX & KEY PLAN
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E0.2	DEPOT RAMP STREET LEVEL DEMOLITION PLAN
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DEPOT RAMP LOWER LEVEL DEMO PLAN

E 0.1

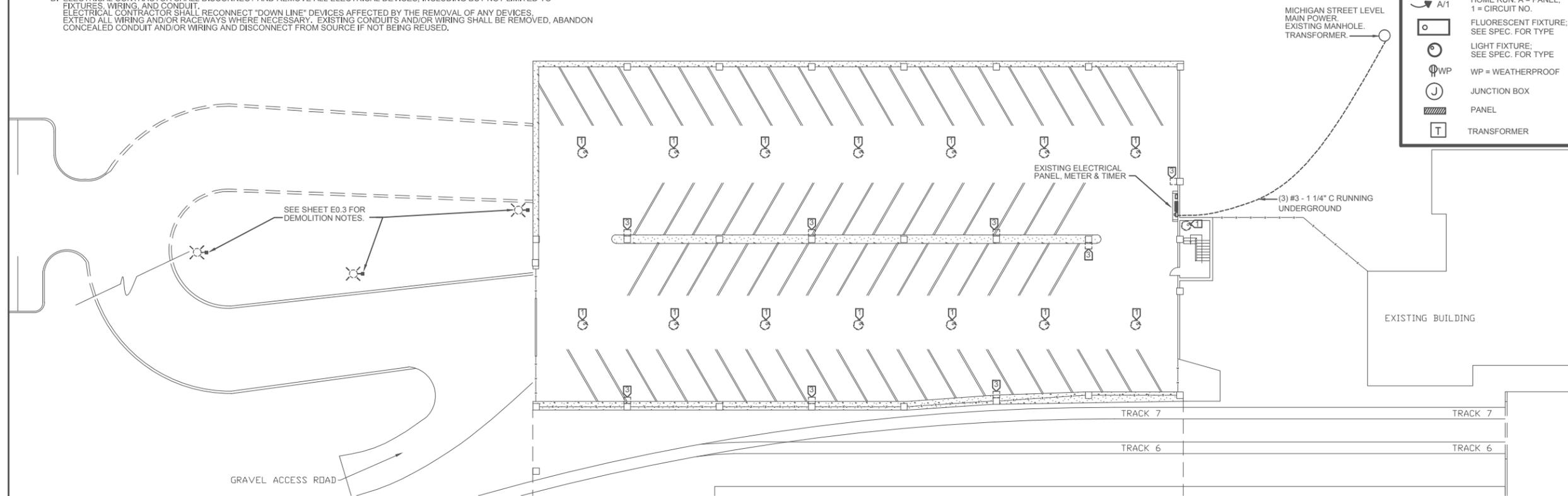
GENERAL NOTES (DEMOLITION):

- ALL DEVICES SHOWN ON DEMOLITION DRAWINGS ARE TO BE DISCONNECTED FROM ELECTRICAL POWER AND REMOVED UNLESS NOTED OTHERWISE THIS SHEET ONLY. REMOVE ALL CONDUIT AND WIRING NOT BEING USED.
- ELECTRICAL INFORMATION SHOWN ON THESE PLANS HAS BEEN COMPILED FROM PREVIOUS CONSTRUCTION DRAWINGS AND JOB SITE OBSERVATION AND IS INCLUDED FOR THE CONTRACTORS INFORMATION ONLY. IT SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEMS WERE INSTALLED AS SHOWN. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL MAKE MODIFICATIONS AS NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS AND IN THE SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY ALL EXISTING SIZES, FUNCTIONS, AND LOCATIONS PRIOR TO BEGINNING WORK.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, INCLUDING BUT NOT LIMITED TO FIXTURES, WIRING, AND CONDUIT. ELECTRICAL CONTRACTOR SHALL RECONNECT "DOWN LINE" DEVICES AFFECTED BY THE REMOVAL OF ANY DEVICES. EXTEND ALL WIRING AND/OR RACEWAYS WHERE NECESSARY. EXISTING CONDUITS AND/OR WIRING SHALL BE REMOVED, ABANDON CONCEALED CONDUIT AND/OR WIRING AND DISCONNECT FROM SOURCE IF NOT BEING REUSED.

- ALL MATERIALS REMOVED BY THIS CONTRACTOR SHALL BE REVIEWED BY THE CITY OF DULUTH. MATERIAL NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES. MATERIAL THE OWNER ELECTS TO KEEP, SHALL BE STORED BY THE OWNER.
- CONTRACTOR SHALL REMOVE ALL EXISTING EXPOSED CONDUIT NOT BEING USED. CUT OFF CONDUIT FLUSH WHERE EMBEDDED IN CONCRETE. VERIFY REMOVAL WITH THE OWNER. REMOVE ALL EXISTING WIRING NOT BEING REUSED.
- CONTRACTOR SHALL VERIFY ALL CONDUIT AND SUPPORTS BEING REUSED MEETS CURRENT CODE, AND THE SPECIFICATIONS INCLUDING HANGING METHODS.

ELECTRICAL LEGEND

	IN GROUND WIRING
	CONCEALED WIRING
	HOME RUN: A = PANEL, 1 = CIRCUIT NO.
	FLUORESCENT FIXTURE: SEE SPEC. FOR TYPE
	LIGHT FIXTURE: SEE SPEC. FOR TYPE
	WP = WEATHERPROOF
	JUNCTION BOX
	PANEL
	TRANSFORMER



KEYED NOTES - DEMOLITION

- DISCONNECT & REMOVE EXISTING LIGHT. PREPARE FOR NEW LIGHT.
- DISCONNECT & REMOVE EXISTING LIGHT FROM POLE. PREPARE FOR NEW LIGHT ON EXISTING POLE.
- DISCONNECT & REMOVE EXISTING LIGHT. PROVIDE BLANK COVER & SPLICE AS NECESSARY FOR DOWN-LINE FEED. (A NEW FIXTURE MAY BE INSTALLED IN THE FUTURE).
- DISCONNECT & REMOVE EXISTING LIGHT FIXTURE, CONDUIT, & WIRING BACK TO NEW FIXTURE LOCATION.
- DISCONNECT & REMOVE EXISTING LIGHT FIXTURE.

DEPOT RAMP LOWER LEVEL DEMOLITION PLAN





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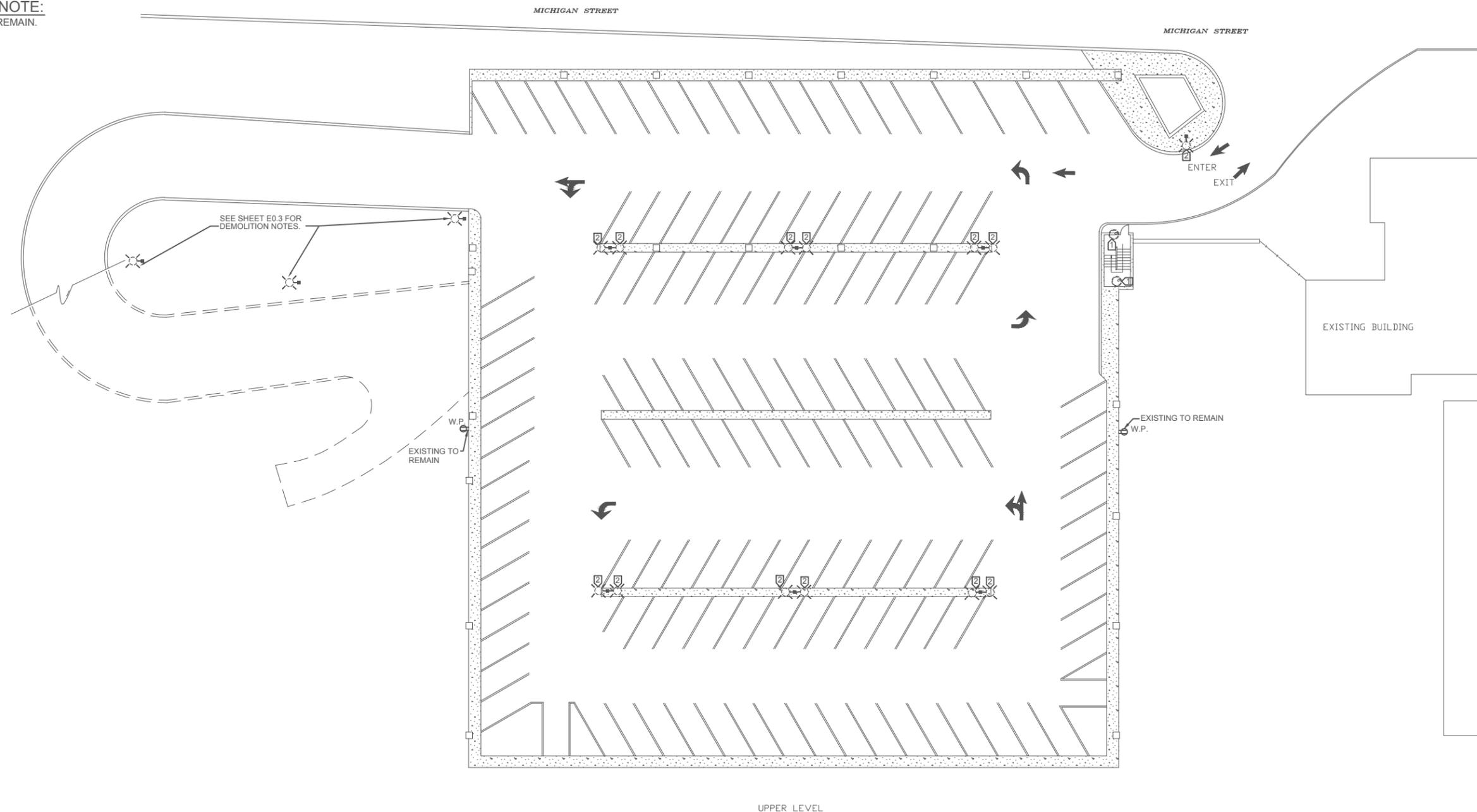
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- 5 DISCONNECT & REMOVE EXISTING LIGHT FIXTURE.

GENERAL NOTE:
 ALL POLES TO REMAIN.



DULUTH PARKING RAMP LIGHTING

DULUTH, MINNESOTA

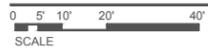
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DEPOT RAMP STREET LEVEL DEMO PLAN

DEPOT RAMP STREET LEVEL DEMOLITION PLAN



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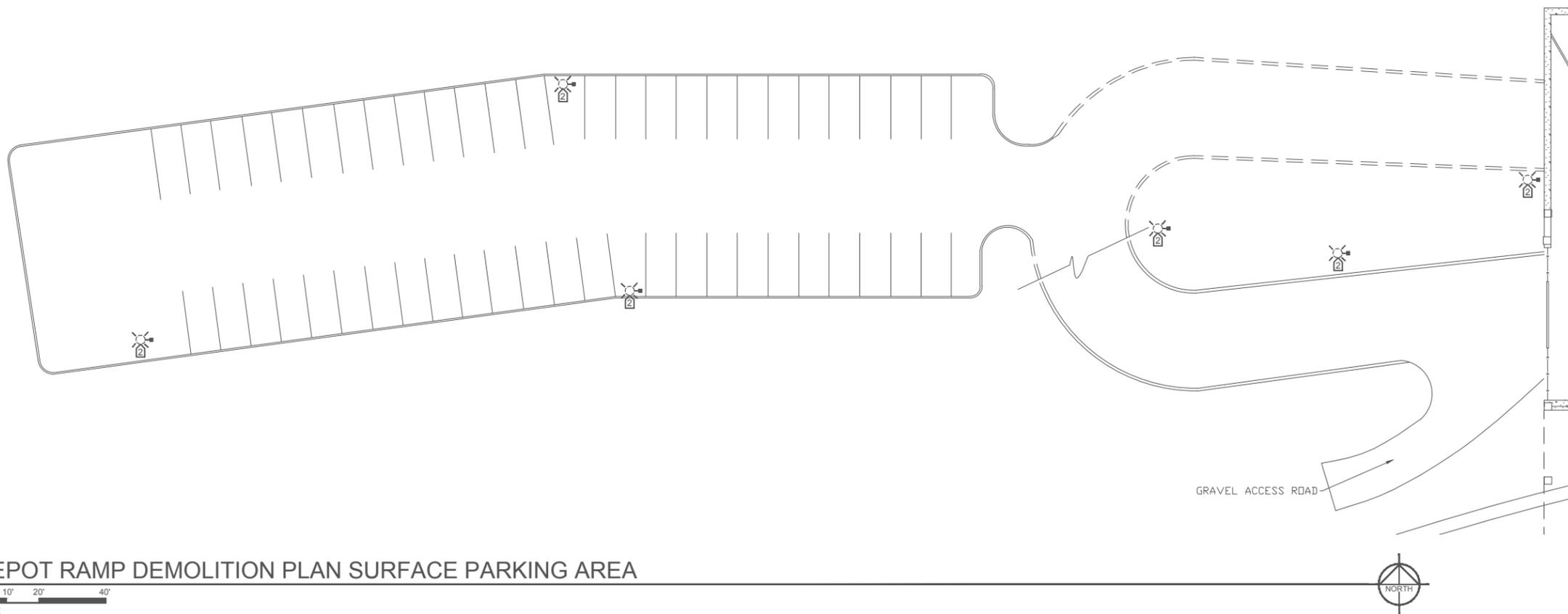
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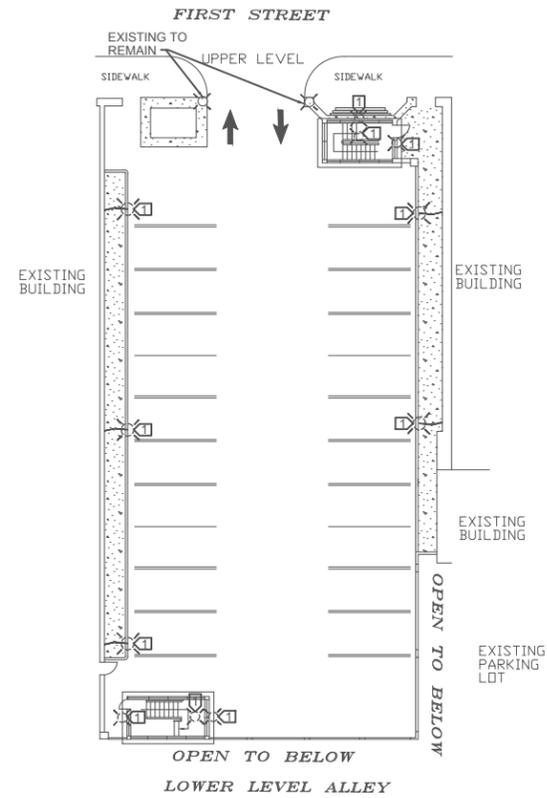
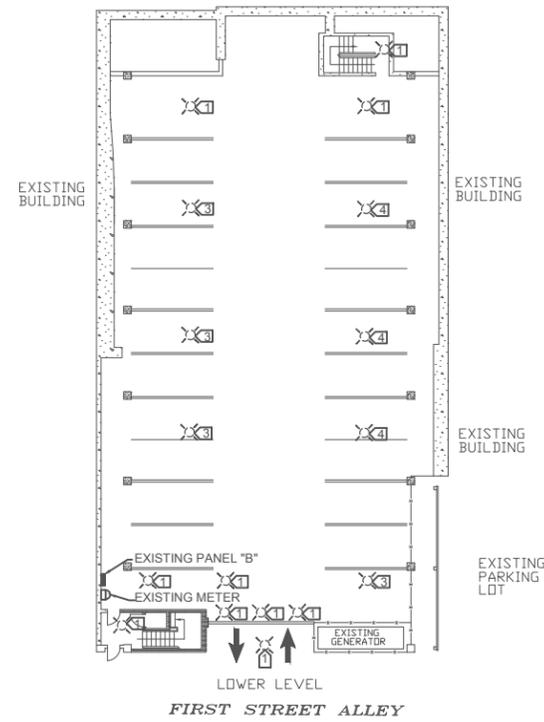
David Jordan
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DEPOT RAMP DEMO PLAN SURFACE PARKING AREA

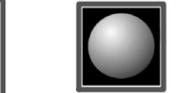
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CONEY RAMP DEMOLITION PLAN



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CONEY ISLAND RAMP DEMOLITION PLAN

E
0.4



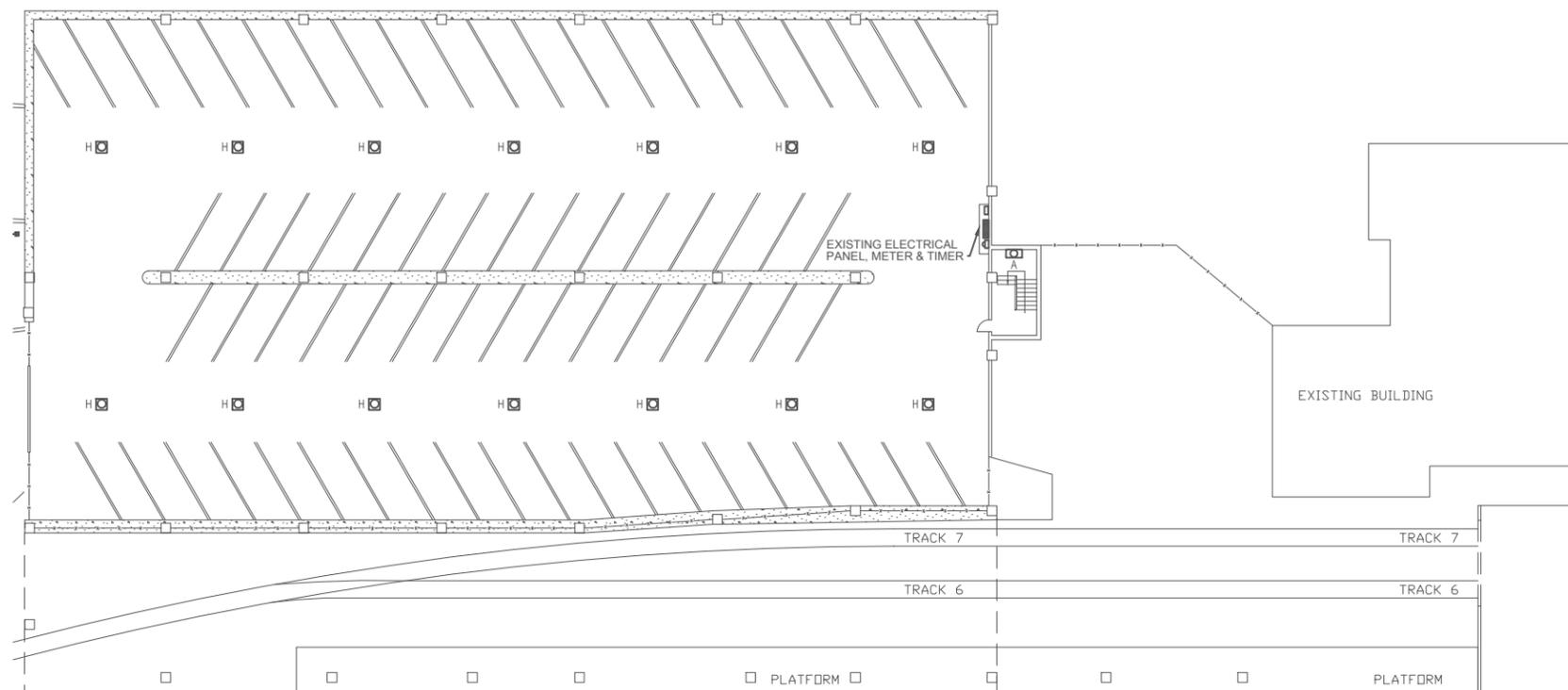
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DEPOT RAMP LOWER LEVEL LIGHTING PLAN



ELECTRICAL CONSTRUCTION SPECIFICATIONS

GENERAL REQUIREMENTS - THE WORK SHALL IN EVERY WAY CONFORM TO THE LATEST RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND NATIONAL ELECTRIC CODE AND SHALL BE PROVIDED BY AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ENTIRE INSTALLATION SHALL BE MADE IN A THOROUGH WORKMANLIKE MANNER IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL ENGINEERING PRACTICE. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND SUITABLE FOR THE CONDITIONS TO IMPOSE UPON THEM. ALL MATERIALS SHALL BE ON THE APPROVED LIST OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND SHALL BEAR UNDERWRITERS' LABELS.

CONDUIT - ALL CONDUIT SHALL BE PVC. WHERE CONDUIT IS REUSED, IT SHALL BE SUPPORTED AS NECESSARY. EXISTING CONDUIT MAY BE REUSED WHERE POSSIBLE.

WIRE - SHALL BE TYPE XHHW. UNLESS OTHERWISE INDICATED, TYPE USE WHERE UNDERGROUND; NO SMALLER WIRE THAN NO. 12 SHALL BE USED. ALL WIRING #10 AND LARGER AND CONTROL WIRING SHALL BE STRANDED. ALL WIRE SHALL BE RATED FOR 600 VOLTS. 3M TYPE Y OR R OR EQUIVALENT CONNECTORS SHALL BE USED. WIRE SHALL BE SIZED AS SHOWN ON DRAWINGS.

GROUNDING - THE ENTIRE WIRING SYSTEM AND CONDUIT AND APPARATUS SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC. ALL WIRE USED FOR GROUNDING THE WIRING SYSTEM AND THE CONDUIT RUN AND ALL PULL BOXES SHALL BE SIZED TO CONFORM TO THE REQUIREMENTS OF THE NEC.

WIRING SYSTEM - SHALL BE INSTALLED IN A CONTINUOUS CONDUIT SYSTEM. PROVIDE A GROUND WIRE FOR ALL CONDUIT SYSTEMS. CONTRACTOR SHALL INSTALL SYSTEM SO AS TO FORM A CONVENIENT LAYOUT. ALL WIRING SHALL BE COLOR CODED.

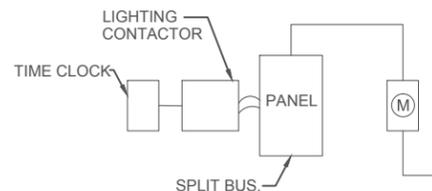
ELECTRICAL CONSTRUCTION SPECIFICATIONS (CONTINUED)

TESTS - AS THE WORK PROGRESSES, THE CONTRACTOR SHALL MAKE SUCH TESTS AS ARE NECESSARY TO ASCERTAIN ANY SHORT CIRCUITS, DEFECTS, OR INCORRECT CONNECTIONS AND SHALL ELIMINATE ANY SUCH DEFECTS WITHOUT COST TO THE OWNER. AFTER WORK HAS BEEN COMPLETELY TESTED, ADJUSTED AND APPROVED, TEST SYSTEM UNDER NORMAL OPERATION CONDITIONS TO DEMONSTRATE THAT SYSTEMS FULFILL REQUIREMENTS OF PLANS AND SPECIFICATIONS AND THAT THEY OPERATE SATISFACTORILY.

ELECTRICAL SERVICE - ELECTRICAL SERVICE IS EXISTING.

PERMITS, LICENSES AND FEES - ALL PERMITS, LICENSES AND FEES NECESSARY FOR THE PERFORMANCE OF THE WORK SHALL BE INCLUDED IN THE CONTRACT.

FIXTURE SCHEDULE - SEE DRAWINGS, CONTRACTOR TO FIELD VERIFY ALL VOLTAGES PRIOR TO ORDERING, EXTEND ALL WIRING AS NECESSARY FOR NEW FIXTURES.



EXISTING POWER RISER

NOT TO SCALE

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DEPOT RAMP LOWER LEVEL LIGHTING PLAN AND SPECIFICATION

E 1.1



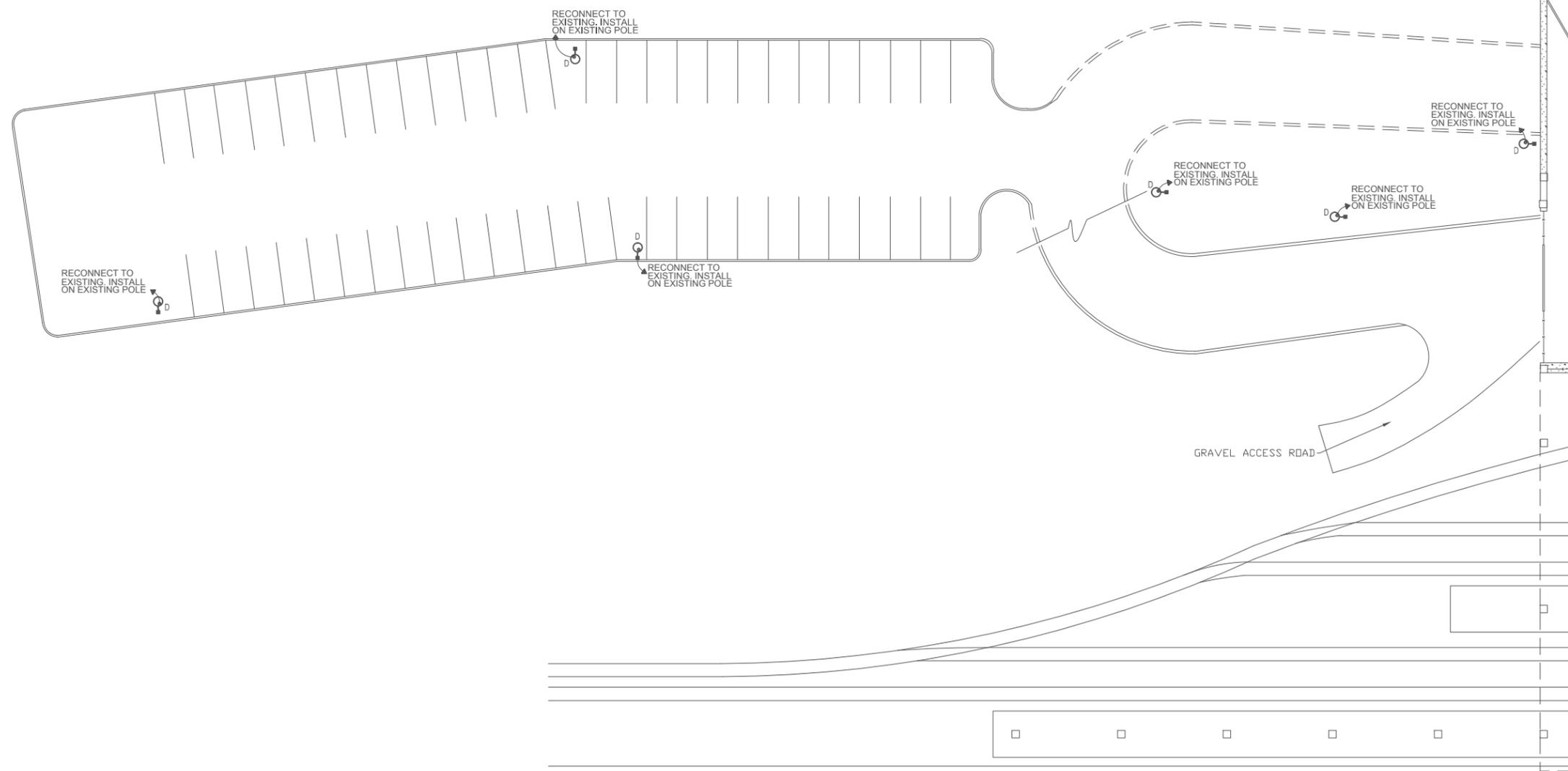
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**DEPOT RAMP
LIGHTING PLAN
SURFACE
PARKING AREA**

**E
1.3**

DEPOT RAMP LIGHTING PLAN SURFACE PARKING AREA



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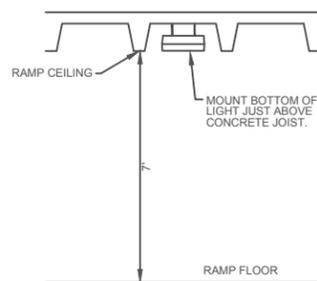
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LIGHT FIXTURE SCHEDULE

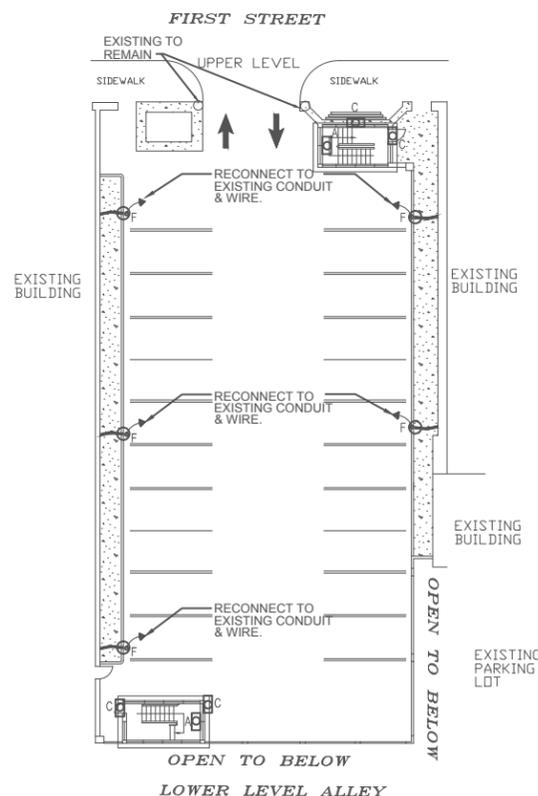
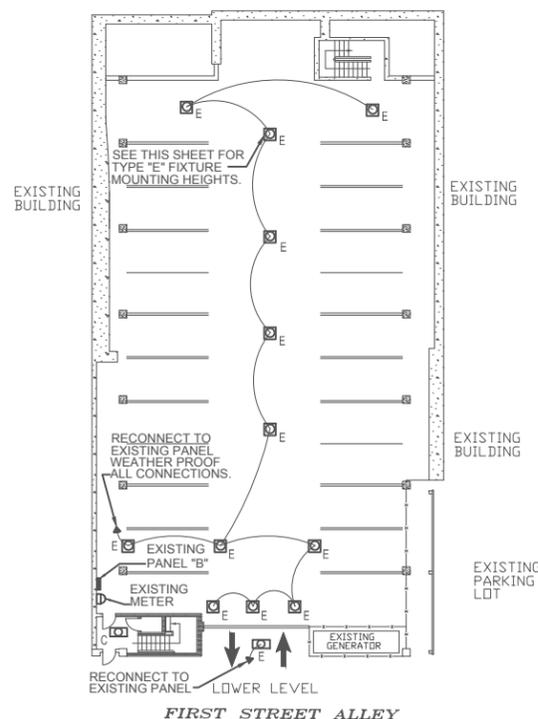
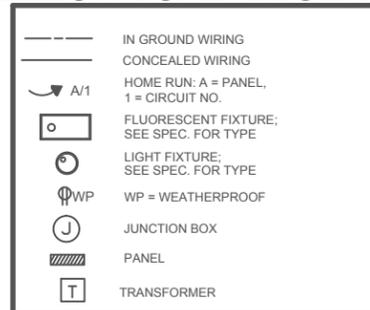
TYPE	MANUFACTURE	VOLTAGE	LAMPS	SPECIFICATION
TYPE "A" 	MAX-LITE - MLSWP30LED50	120/277V	LED	WALL OR CEILING MOUNTED FOR BEST LIGHTING IN STAIRWELL AND SIDEWALK AREA, EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "B" 	BETA ARE-EDG-5M-DA-08-C-UL-BZ-TL	120/277V	LED	TWO (2) FIXTURES TO MOUNT TO EXISTING 27" POLE EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "C" 	MAX-LITE - MLLWP40LED50	120/277V	LED	MOUNT ON COLUMN IN SAME LOCATION AND HEIGHT AS EXISTING. CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "D" 	LSI INDUSTRIES, XAM3-2-LED-119-450-CW-UE-BRZ-PC1120	120/277V	LED	MOUNT ON EXISTING POLE. CONNECT TO EXISTING WIRE AND CONDUIT. DIE-FORMED ALUMINUM, CLEAR TEMPERED OPTICAL GRADE FLAT GLASS LENS, TWO-STAGE SURGE PROTECTION, 60,000 HOUR EXPECTED LIFE. EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "E" 	MAX-LITE - MLGAR40LED50	120/277V	LED	SURFACE MOUNTED BETWEEN JOISTS, MOUNT ACCORDING TO DETAIL FOUND ON THIS SHEET, CONNECT TO NEAREST JUNCTION BOX, PROVIDE MOUNTING EQUIPMENT TO EXTEND DOWN TO PROPER MOUNTING HEIGHT. CAST ALUMINUM HOUSING, POLY CARBONATE LENSES. EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "F" 	NEPTUN-ROUND LED STREET FIXTURE LED-47150-UNV 12,000 INITIAL LUMENS	120/277V	150W	150 WATTS 60HZ 70,000 HOUR LAMP LIFE. MOUNT TO EXISTING BRACKET, REUSE EXISTING CONDUIT AND DAYLIGHT SENSING, INSTANT FLICKER-FREE COLD START, CONCEALED CONTINUOUS GASKET SEALS, THERMAL MANAGEMENT, TYPE IV LIGHT DISTRIBUTION. EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "G" 	MAX-LITE - ML4G181PTBK - GU24	120/277V	LED	MOUNT IN SAME LOCATION AND HEIGHT AS EXISTING. EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.
TYPE "H" 	PHILIPS WIDELITE VZ24-60-UNV-F1-PX10-ASA	120/277V	LED	SURFACE MOUNTED PARKING GARAGE FIXTURE, NON DIRECT VIEW LED OPTICAL, 60,000 HOURS RATED LIFE, HEAVY DUTY HANGER PLATE, DIE CAST END CAP AND, EXTRUDED MAIN TOP HOUSING, PROXIMO OCCUPANCY & DAYLIGHT SENSOR. MOUNT IN SAME LOCATION AND HEIGHT AS EXISTING. EXTEND AND CONNECT TO EXISTING CONDUIT AND WIRING.



CONEY RAMP TYPE "E" MOUNTING DETAIL



ELECTRICAL LEGEND



CONEY RAMP LIGHTING PLAN UPPER AND LOWER LEVEL



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CONEY ISLAND RAMP LIGHTING PLAN

E
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