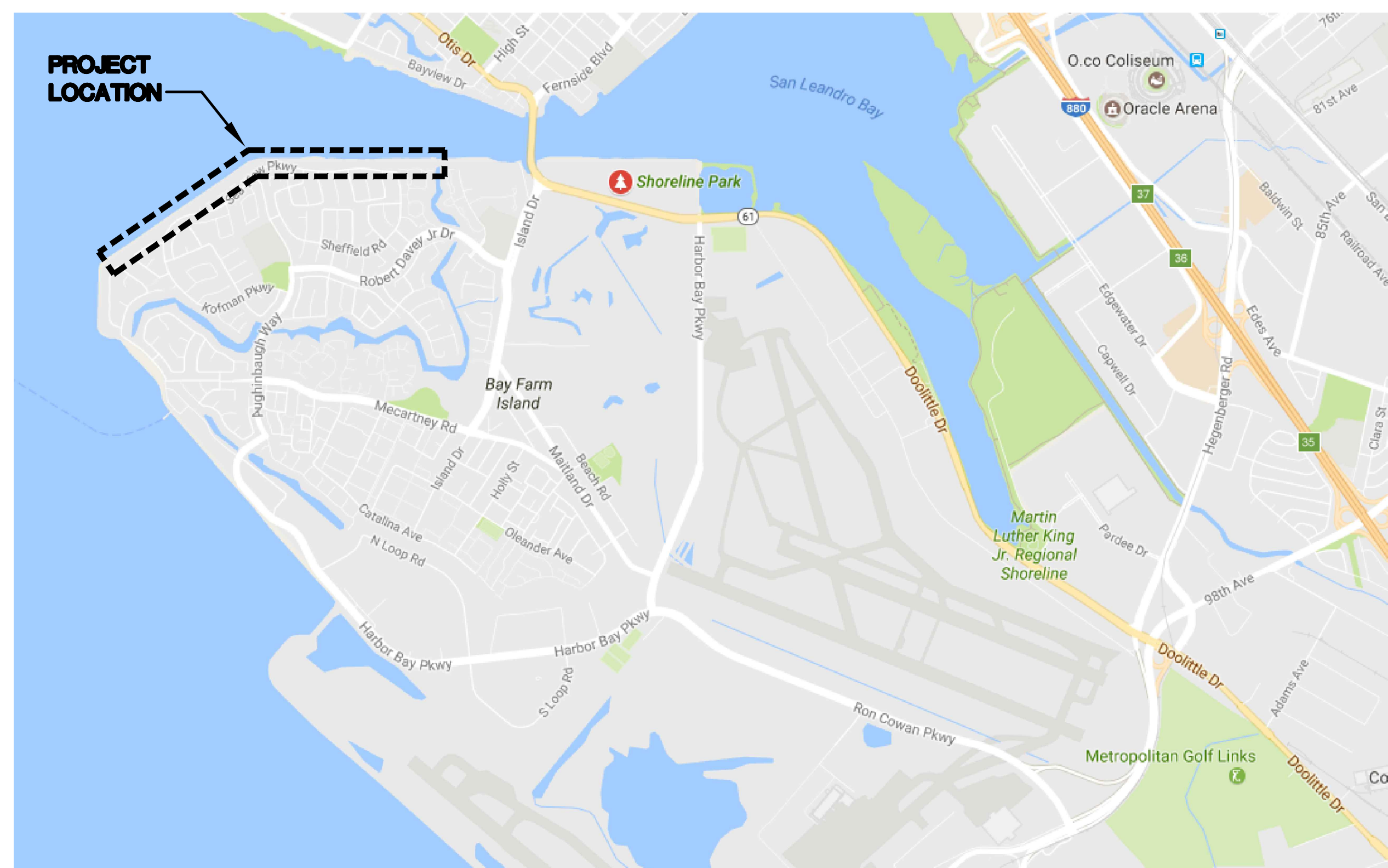




CITY OF ALAMEDA,
ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

VICINITY MAP



GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS, AND SPECIFICATIONS. PRIOR TO SUBMITTING PROPOSAL, CONTRACTOR SHALL EXAMINE ELECTRICAL CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE/SHE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS/HER PART. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
- ALL TEMPORARY CONNECTIONS SHALL BE CONSIDERED PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, AND PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- THE CONTRACTOR SHALL PROVIDE TO THE CITY OF ALAMEDA A CONSTRUCTION SCHEDULE OF ALL ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL, AT THE CONCLUSION OF THE PROJECT, PROVIDE A SET OF REPRODUCIBLE (AUTOCAD), ACCURATE AND NEAT "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ENGINEER.
- THESE DRAWINGS DO NOT REPRESENT THE EXACT LOCATIONS, SIZES OR EXISTING UTILITIES ON SITE. CONTRACTOR SHALL TAKE STANDARD PRECAUTIONS FOR WORK IN EXISTING FACILITIES.
- EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS BEEN TAKEN FROM EXISTING RECORD DRAWINGS AND/OR LIMITED FIELD INVESTIGATIONS. THE DRAWINGS SHOWING LOCATION OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC., ARE APPROXIMATE ONLY (CONTRACTOR TO FIELD VERIFY).
- ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (IE. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
- ALL ELECTRICAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - AMERICAN STANDARD ASSOCIATION (ASA)
 - AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
 - AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
 - CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - INSULATED POWER CABLE ENGINEERS ASSOCIATIONS (IPCEA)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA)
 - NATIONAL FIRE PROTECTION AGENCY (NFPA)
 - ALL LOCAL CODE HAVING JURISDICTION
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS ON NEW UTILITIES WITH THAT OF EXISTING ON SITE AND IN ADJACENT PROPERTIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS OR DISCREPANCIES FROM THIS PLAN.
- ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RATED. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
- PULLING TAPES: ALL RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH A MINIMUM 1100 LBS. STRENGTH TEST POLYESTER PULLING TAPE. PULLING TAPES SHALL BE DETECTABLE MULE-TAPE WITH SEQUENTIAL FOOTAGE MARKING.
- RUN NO MORE THAN 3 CURRENT CARRYING CONDUCTORS IN ANY WIREWAY UNLESS DE-RATING IS APPROVED BY ENGINEER OR SHOWN ON DRAWINGS.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, #10 AWG MINIMUM, RATED FOR 600V. USE THWN, 75 DEGREE CELSIUS. ALL CONDUCTORS SHALL BE STRANDED, SOFT DRAWN ANNEALED COPPER WIRE 98% CONDUCTIVITY, BEARING THE UL LABEL. SYSTEM VOLTAGE SHALL BE IDENTIFIED AS TO VOLTAGE AND PHASE CONNECTIONS BY MEANS OF COLOR IMPREGNATED INSULATION OR APPROVED COLORED MARKING TAPE.
- WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME CIRCUIT NUMBER, PROVIDE A JUNCTION BOX ABOVE THE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO THE CIRCUIT BREAKER.
- REFER TO THE SINGLE LINE DIAGRAM FOR THE CONDUIT AND CONDUCTOR SIZES HOMERUN TO ELECTRICAL PANELS. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.
- ALL CONDUIT RUNS INCLUDING STRAIGHT FEEDER AND BRANCH CIRCUIT SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIAL AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- DO NOT COMBINE DIFFERENT SYSTEM VOLTAGES IN SAME CONDUIT (EG., 120/208V VS. 277/480V), UNLESS APPROVED BY ENGINEER OR SHOWN ON DRAWINGS.
- ELECTRICAL SYSTEMS SHALL BE INSTALLED FOR FINAL INSPECTIONS. PROVIDE NEUTRAL TEST AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION.
- CIRCUIT BREAKER TERMINALS IN SWITCHBOARDS AND LOAD CENTER SHALL BE UL LISTED AND APPROVED FOR USE WITH COPPER 75 DEGREE CELSIUS CONDUCTORS.
- SIZES OF BREAKERS, SWITCHES, FUSES AND FEEDERS ARE BASED ON DESIGNED EQUIPMENT SIZES. THESE SIZES SHALL BE ADJUSTED TO SATISFY REQUIREMENTS OF ACTUAL INSTALLED OR SUBSTITUTE EQUIPMENT. UP SIZING OR DOWNSIZING OF FEEDERS SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
- AS REQUIRED ALL OVERSIZED FEEDERS THAT WERE ADJUSTED IN SIZE TO COMPENSATE FOR VOLTAGE DROP SHALL BE PROVIDED WITH ADAPTER LUGS OR SPLICE BOX. ADAPTER LUGS SHALL BE PROVIDED IF SIZE IS AVAILABLE. OTHERWISE PROVIDE CABLE SPLICES IN THE SPLICE BOX TO REDUCE CABLES TO THE MAXIMUM SIZE THAT THE BREAKER LUGS CAN ACCOMMODATE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW-CUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO COMPLETE WORK. USE EXTREME CAUTION WHEN TRENCHING NEAR EXISTING UNDERGROUND UTILITY LINES. CONTRACTOR SHALL PROVIDE ALL REQUIRED CUTTING, PATCHING, PAINTING, AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT THE START OF WORK.
- ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCE ACTING IN ANY DIRECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF ASCE.
- RIGID GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL ABOVE GRADE EXTERIOR APPLICATIONS, ALL CONDUITS LARGER THAN 2" TRADE DIAMETER, AND ALL INDOOR CONDUITS BELOW EIGHT (8) FEET FROM FINISHED FLOOR.
- ELECTRICAL METALLIC TUBING (EMT) IS ONLY ALLOWED IN INTERIOR LOCATION ABOVE EIGHT (8) FEET FROM FINISHED FLOOR AND WHEN ENTERING A PANEL FROM ABOVE.
- POLYVINYL CHLORIDE (PVC) SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB AND UNDERGROUND INSTALLATION. INSTALL PVC COATED RIGID STEEL CONDUIT FOR TRANSITION FROM UNDERGROUND TO ABOVE GRADE INSTALLATION.
- WHEN A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWINGS OR SPECIFICATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL REQUIRED BY THE MOST STRINGENT CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM, OR AS DIRECTED BY ENGINEER.
- PROVIDE PERMANENT IDENTIFICATION (NAMEPLATES) FOR ALL ELECTRICAL PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, TRANSFORMERS, TERMINAL CABINETS, LIGHTS AND PULL BOXES.
- ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
- ALL SPLICES AND TERMINALS SHALL BE 3M SCOTCHCAST CONNECTOR SEALING PACK OR APPROVED EQUAL.
- LABEL ALL CONDUIT WHERE IT BEGINS, AND WHERE IT TERMINATES INTO A BOX, PANEL, DEVICE, LOAD, OR DISCONNECT. LABEL SHALL BE PERMANENT PRINTED LABELS (DESCRIBING SOURCE, CIRCUIT, AND LOAD) LEGIBLE FROM FLOOR WHERE POSSIBLE (STANDING POSITION).
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT OR INSTALLATION METHODS.
- PROVIDE ARC-FLASH HAZARD WARNING LABELS ON ALL AFFECTED ELECTRICAL EQUIPMENT, INCLUDING SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS. LABEL SHALL BE FACTORY PRE-PRINTED OR MACHINER-PRINTED SELF-ADHESIVE VINYL MATERIAL, UV, CHEMICAL, WATER, HEAT AND ABRASION RESISTANT; PRODUCED USING MATERIALS RECOGNIZED BY UL 969. MINIMUM SIZE: 3.5 BY 5 INCHES.
- UNLESS OTHERWISE NOTED, ARRANGE, PAY FOR, COORDINATE AND PROVIDE ALL PERMITS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- ALL WORK IS <N> UNLESS OTHERWISE NOTED.

ADD ALTERNATE

ADD ALTERNATE #1 (PHASE 2)

- AREAS 8 THROUGH 11, CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICING TO REPLACE EXISTING UNDERGROUND ELECTRICAL INFRASTRUCTURE, WHICH INCLUDES BUT NOT LIMITED TO: CONDUIT, CONDUCTORS, AND ASPHALT REPAIR.

ADD ALTERNATE #2 (PHASE 2)

- CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICING TO FURNISH AND INSTALL NEW LIGHTING CONTROL PEDESTAL "LCP2" LOCATED IN AREA 11.
- FURNISH AND INSTALL NEW GATE ENCLOSURE AROUND EXISTING SERVICE PANEL AND LIGHTING CONTROL PEDESTAL. REFER TO DETAILS 6,7,8,9/E-5.2 AND 2/E-5.3.

SCOPE OF WORK

- CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING AN EROSION CONTROL CONTROL PLAN FOR REVIEW AND APPROVAL BY PUBLIC WORKS DEPARTMENT.
- DEMOLITION OF ALL EXISTING LIGHT FIXTURES WITHIN SCOPE OF PROJECT. EXISTING UNDERGROUND CONDUIT TO BE ABANDONED. WHERE EXISTING CONDUIT IS TO BE ABANDONED OR DEMOLISHED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, CUT AND CAP CONDUIT TO BELOW GRADE.
- EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS-FOUND" CONDITION.
- ALL DEMOLITION WORK SHOWN, IF ANY, WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. NO REPRESENTATION HAS BEEN MADE THAT ALL ITEMS THAT MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- CONTRACTOR PRIOR TO START OF CONSTRUCTION SHALL LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK.
 - AREAS 1 THROUGH 7: DEMOLISH AND REPLACE EXISTING LIGHT FIXTURES AND ASSOCIATED NEW UNDERGROUND INFRASTRUCTURE WITH NEW. WILL INCLUDE NEW LIGHTING CONTROL PANEL #1 AND ASPHALT REPAIR.
 - AREAS 8 THROUGH 11: REPLACE EXISTING FIXTURES WITH NEW. RE-USE EXISTING LIGHTING CIRCUIT.

PHOTOGRAPHIC CONSTRUCTION RECORDS

THE CONTRACTOR SHALL PROVIDE PRECONSTRUCTION DIGITAL PHOTOGRAPHS AND VIDEO RECORDINGS PRIOR TO COMMENCEMENT OF WORK ON THE SITE. BEFORE CONSTRUCTION MAY START, CONTRACTOR SHALL DOCUMENT ANY EXISTING CONDITIONS THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS (DAMAGED CONCRETE, WALLS, LANDSCAPE, ETC.), FAILURE TO DOCUMENT EXISTING DAMAGE WILL RESULT IN CONTRACTOR REPAIRS TO SURFACE TO MATCH ADJACENT AFTER CONSTRUCTION ACTIVITIES. ADDITIONAL PRECONSTRUCTION PHOTOGRAPHS/VIDEOS SHALL BE TAKEN AT LOCATIONS TO BE DESIGNATED BY THE OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL MAKE A VIDEO RECORDING OF ALL PROPOSED ROUTINGS FOR INFRASTRUCTURE WORK, NOTING CONDITIONS OF EXISTING SURFACES AND ADJACENT IMPROVEMENTS. ONE COPY OF COMPLETE VIDEO SHALL BE TRANSMITTED TO THE OWNER'S REPRESENTATIVE.

CONSTRUCTION PHOTOGRAPHS

THE CONTRACTOR SHALL PROVIDE CONSTRUCTION PHOTOGRAPHS SHOWING THE PROGRESS OF THE WORK AND AS MAY BE DIRECTED BY THE OWNER'S REPRESENTATIVE. PHOTOGRAPHS/VIDEOS SHALL BE FORMATTED, IDENTIFIED, AND DELIVERED AS DESCRIBED ABOVE FOR DIGITAL PHOTOS AND VIDEOS. STARTING ONE MONTH AFTER THE DATE OF THE PRECONSTRUCTION PHOTOGRAPHS AND CONTINUING AS LONG AS THE WORK IS IN PROGRESS, APPROXIMATELY 40 MONTHLY PHOTOGRAPHS SHALL BE TAKEN, CATALOGED AND CROSS REFERENCED TO DRAWINGS/PLANS.

ANY WORK TO BE CONCEALED (BURIED, BEHIND WALLS, ABOVE CEILING, BELOW SLAB, ETC.) SHALL BE PHOTO DOCUMENTED AFTER ANY TESTING AND INSPECTION AND PRIOR TO CONCEALING TO CLEARLY INDICATE THE WORK. DOCUMENT ON PLANS THE LOCATION AND ORIENTATION FOR EACH PHOTO DOCUMENTING CONCEALED WORK.

FOR FINAL COMPLETION, DOCUMENT ALL PUNCH LIST ITEM COMPLETION BY PHOTOGRAPH OR VIDEO.

DELIVER CONSTRUCTION PHOTOGRAPHS AND VIDEOS WITHIN 10 DAYS OF CREATION. ALL PHOTOS AND VIDEOS SHALL BE OF SUFFICIENT QUALITY TO CLEARLY DEPICT WORK.

DRAWING INDEX

SHEET NO.	DESCRIPTION
E-0.0	ELECTRICAL COVER SHEET
E-0.1	ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
ED-1.1	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 1 - DEMOLITION
ED-1.2	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 2 - DEMOLITION
ED-1.3	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 3 - DEMOLITION
ED-1.4	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 4 - DEMOLITION
ED-1.5	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 5 - DEMOLITION
ED-1.6	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 6 - DEMOLITION
ED-1.7	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 7 - DEMOLITION
ED-1.8	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 8 - DEMOLITION
ED-1.9	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 9 - DEMOLITION
ED-1.10	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 10 - DEMOLITION
ED-1.11	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 11 - DEMOLITION
E-1.1	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 1 - NEW
E-1.2	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 2 - NEW
E-1.3	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 3 - NEW
E-1.4	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 4 - NEW
E-1.5	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 5 - NEW
E-1.6	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 6 - NEW
E-1.7	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 7 - NEW
E-1.8	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 8 - NEW
E-1.9	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 9 - NEW
E-1.10	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 10 - NEW
E-1.11	ELECTRICAL PARTIAL SITE LIGHTING PLAN AREA 11 - NEW
E-5.1	ELECTRICAL DETAILS
E-5.2	ELECTRICAL DETAILS
E-5.3	ELECTRICAL DETAILS

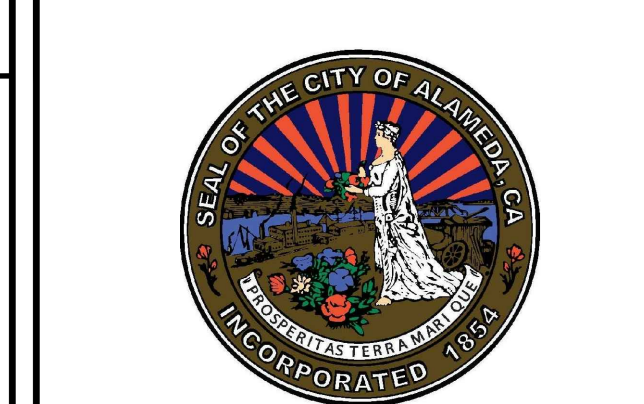
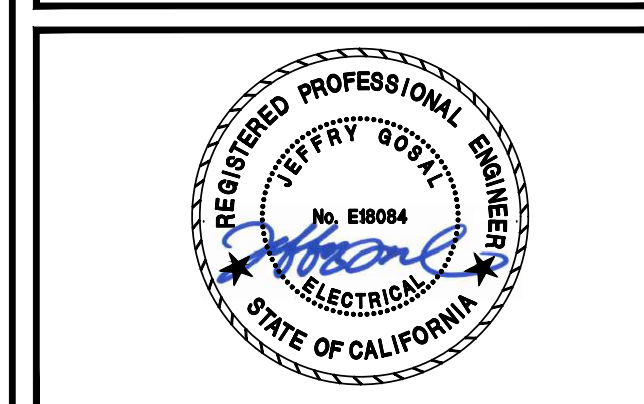
SITE MAP



SALAS O'BRIEN
| expect a difference |
305 South 11th Street
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877.725.2755 | 408.297.2995 (f)
salasobrien.com
California | Georgia | Louisiana
Montana | Texas | Washington
Licensed in 50 States

PROJECT AUTHORIZATION
These Construction Documents contained herein, for the ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN have been approved by the City Engineer in accordance with the City of Alameda Ordinance No. 3154 and California Government Code 8306.

Scott Whittem, PE (DCS #08860)
City Engineer, City of Alameda, Ca Date



CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

ISSUE	MARK	DATE	DESCRIPTION
		07/18/17	50% CD
		08/23/17	90% CD
		10/05/17	BID/PERMIT SUBMITTAL
		11/15/17	PERMIT RESUBMITTAL
		03/26/18	BID SET
		06/04/18	OWNER COMMENTS
		08/05/19	BULLETIN #1
		09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
ELECTRICAL COVER SHEET

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

E-0.0
SHEET OF XX

PANEL SCHEDULES

APPLICABLE CODES

SYMBOLS

<N> PANEL 'LCP1' LOCATION AREA 5 VOLTAGE 120/ 208 V TYPE TESCO PHASE 1 WIRE 3

<N> PANEL 'LCP2' LOCATION AREA 11 VOLTAGE 277/ 480 V TYPE TESCO PHASE 1 WIRE 3

<N> PANEL 'R1' LOCATION RESTROOM #1 AREA 2 VOLTAGE 120/ 208 V TYPE TESCO PHASE 1 WIRE 3

<N> PANEL 'R2' LOCATION RESTROOM #1 AREA 7 VOLTAGE 120/ 208 V TYPE TESCO PHASE 1 WIRE 3

ADD ALTERNATE

UNLESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CONFORMANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- 1. CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24); 2016
2. CALIFORNIA BUILDING CODE (PART 2, TITLE 24); 2015 IBC WITH 2016 CA AMENDMENTS
3. CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24); 2014 NEC WITH 2016 CA AMENDMENTS
4. CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24); 2015 UMC WITH 2016 CA AMENDMENTS
5. CALIFORNIA PLUMBING CODE (PART 5, TITLE 24) 2015 UPC WITH 2016 CA AMENDMENTS
6. CALIFORNIA ENERGY CODE (PART 6, TITLE 24); 2016
7. CALIFORNIA HISTORICAL BUILDING CODE, (PART 8, TITLE 24); 2016
8. CALIFORNIA FIRE CODE (PART 9, TITLE 24); 2015 IFC WITH 2016 CA AMENDMENTS
9. CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24); 2015 (INTERNATIONAL EXISTING BUILDING CODE WITH 2016 CA AMENDMENTS)
10. CALIFORNIA GREEN BUILDING STANDARDS CODE OR CAL GREEN (PART 11, TITLE 24); 2016
11. CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24); 2016
12. PUBLIC SAFETY (TITLE 19), STATE FIRE MARSHAL; 2016
13. NFPA 72, NATIONAL FIRE ALARM CODE, 2016 EDITION W/ CA AMENDMENTS

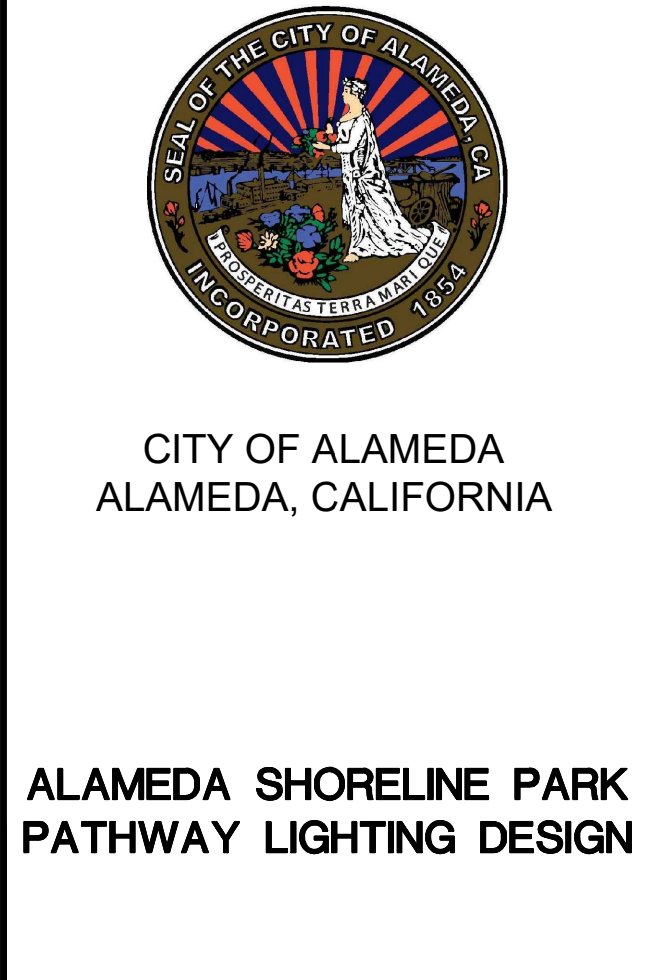
- EXTENT OF DEMOLITION
NEW TO EXISTING CONNECTION
ELECTRICAL WORK ITEM
DETAIL DESIGNATION
EQUIPMENT DESIGNATION
SECTION DESIGNATION
EXISTING CONDUIT
NEW CONDUIT
CONDUIT TO BE DEMOLISHED
PANEL BOARD/TERMINAL CABINET - FLUSH/SURFACE MOUNTED
BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING SPACE OR WHERE POSSIBLE, EXPOSED ON ROOF OR BUILDING EXTERIOR.
BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR, UNDERGROUND OR WHERE POSSIBLE.
BRANCH CIRCUIT HOME RUN TO PANEL, CONCEALED IN CEILING SPACE OR WHERE POSSIBLE. * = PANEL BOARD & CIRCUIT #
EXISTING DEVICES, CONDUITS, WIRES, ETC. TO REMAIN
NEW (BOLD) DEVICES, CONDUITS, WIRES, ETC.
CONDUIT UP
CONDUIT DOWN
WP GFI
HORSEPOWER RATED TOGGLE WITH THERMAL OVERLOAD WEATHER PROOF
DISCONNECT SWITCH, WALL MOUNTED, +54" AFF.
FUSED DISCONNECT SWITCH, WALL MOUNTED, +54" AFF.
COMBINATION MOTOR STARTER DISCONNECT SWITCH, WALL MOUNTED, +54" AFF.
EXISTING ELECTRICAL POWER PULL BOX
NEW ELECTRICAL POWER PULL BOX
ELECTRICAL JUNCTION BOX
EXISTING STANDARD LIGHT
NEW DECORATIVE STANDARD LIGHT
EXISTING BOLLARD LIGHT
NEW BOLLARD LIGHT

Light fixture schedule table with columns: TYPE / SYMBOL, MANUFACTURER, CATALOG #, VOLTAGE, WATTS, LAMPING, MOUNTING, DESCRIPTION

Light fixture schedule table with columns: TYPE / SYMBOL, MANUFACTURER, CATALOG #, VOLTAGE, WATTS, LAMPING, MOUNTING, DESCRIPTION

ABBREVIATIONS

- AT
AUTHORITY HAVING JURISDICTION
BLDG BUILDING
C CONDUIT
CB CIRCUIT BREAKER
CLG CENTERLINE
CEILING
CLT CIRCUIT
C.O. CONDUIT ONLY (W/PULLROPE)
CONT CONTINUATION
CSFM CALIFORNIA STATE FIRE MARSHAL
DN DOWN
DWG DRAWING
<E> EXISTING
ELEC ELECTRICAL
EM EMERGENCY
EQ EQUAL
EQUIP EQUIPMENT
<ERR> EXISTING TO REMAIN AND BE RECONNECTED
FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FATC FIRE ALARM TERMINAL CABINET
FLR FLOOR
GFI GROUND FAULT INTERRUPTER
GND GROUND
IOR INSPECTOR OF RECORD
LCP LIGHTING CONTROL PANEL
LCE LIGHTING CONTACTOR ENCLOSURE
LGT LIGHTING
LTS LIGHTS
MAX MAXIMUM
MIN MINIMUM
<N> NEW (BOLD)
N.T.S. NOT TO SCALE
PNL PANEL
<R> REMOVE
<RRN> REMOVE REPLACE W/ NEW
REC RECEPTACLE
RM ROOM
RPS REMOTE POWER SUPPLY
SPB SIGNAL PULL BOX
SPECS SPECIFICATIONS
TYP TYPICAL
TP TWISTED PAIR (SHIELDED)
U.O.N. UNLESS OTHERWISE NOTED
V VOLT
VA VOLT AMP
V.I.F. VERIFY IN FIELD
W WATTS
WP WEATHERPROOF (NEMA 3R)



Issue table with columns: MARK, DATE, DESCRIPTION

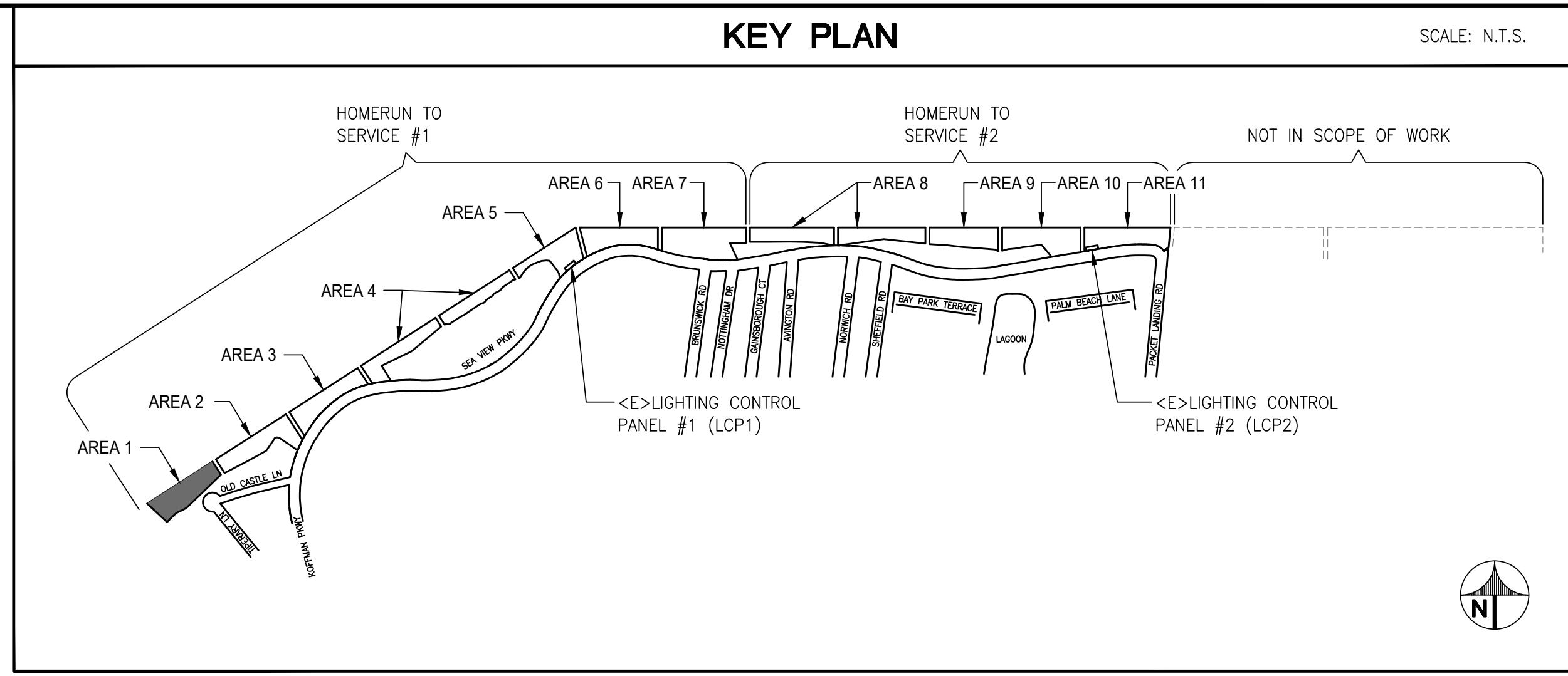
SOBE PROJECT NO: 170430
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CHECKED BY: TJ
APPROVED BY: JG

ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET TITLE
ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

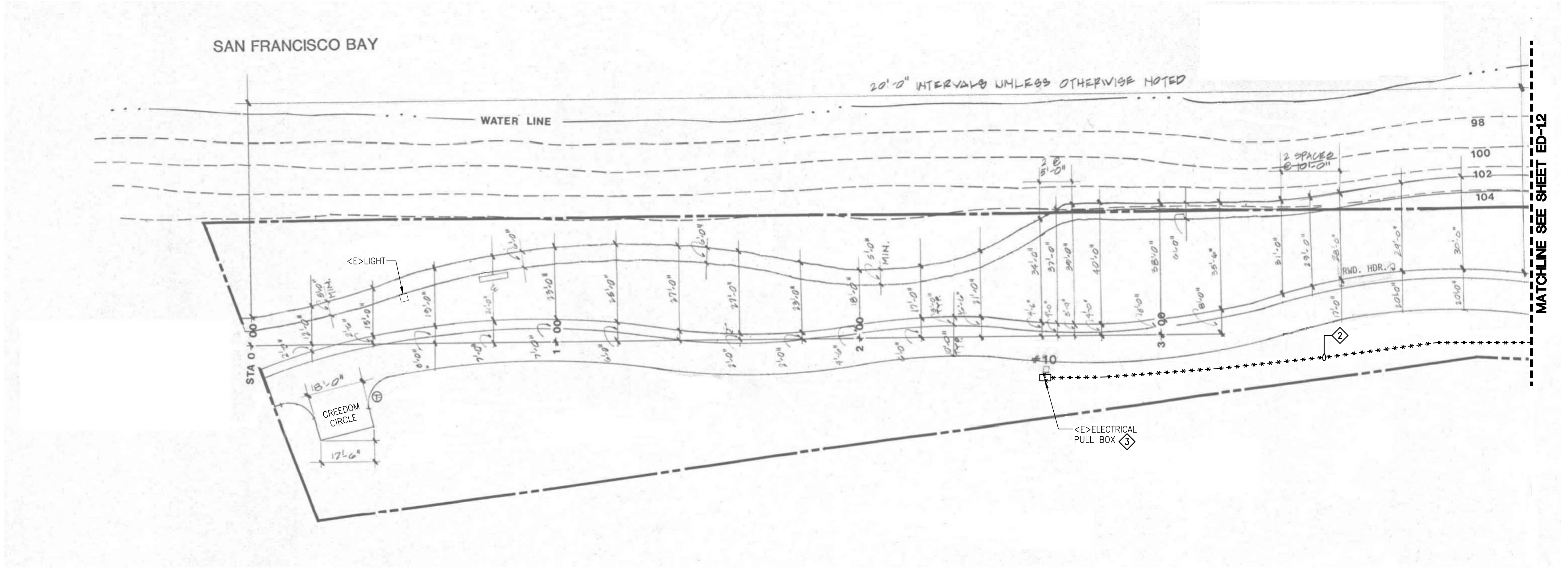
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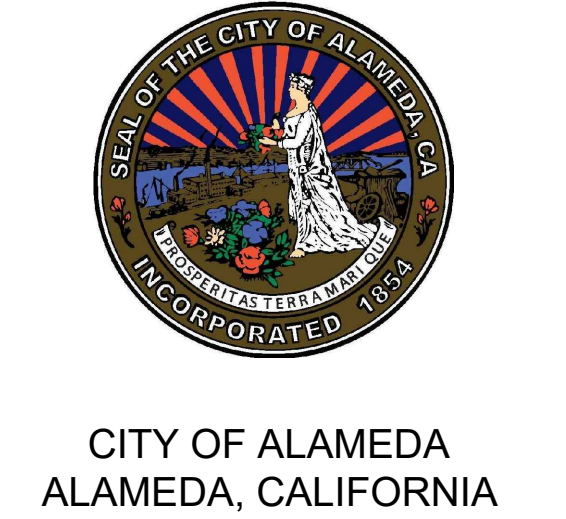
- GENERAL SHEET NOTES**
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
 - UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
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 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- REFERENCE SHEET NOTES**
- DEMOLISH LIGHT FIXTURE, POST AND WIRING. REMOVE WIRES BACK TO LIGHTING CONTROL CABINET. ABANDON CONCRETE POLE FOUNDATION IN PLACE.
 - DISCONNECT AND REMOVE CONDUCTORS FROM EXISTING CONDUIT. ABANDON CONDUIT IN PLACE.
 - DEMOLISH PULLBOX. CUT AND CAP INCOMING AND OUTGOING CONDUITS. ABANDON CONDUIT IN PLACE.
 - DEMOLISH LIGHT FIXTURE AND POST. EXISTING CIRCUIT AND WIRING TO REMAIN TO FEED NEW LIGHT FIXTURE. SEE NEW WORK.
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1 PARTIAL SITE PLAN AREA 1 - DEMOLITION
SCALE: N.T.S.

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ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
	10/05/17	BID/PERMIT SUBMITTAL
	11/15/17	PERMIT RESUBMITTAL
	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

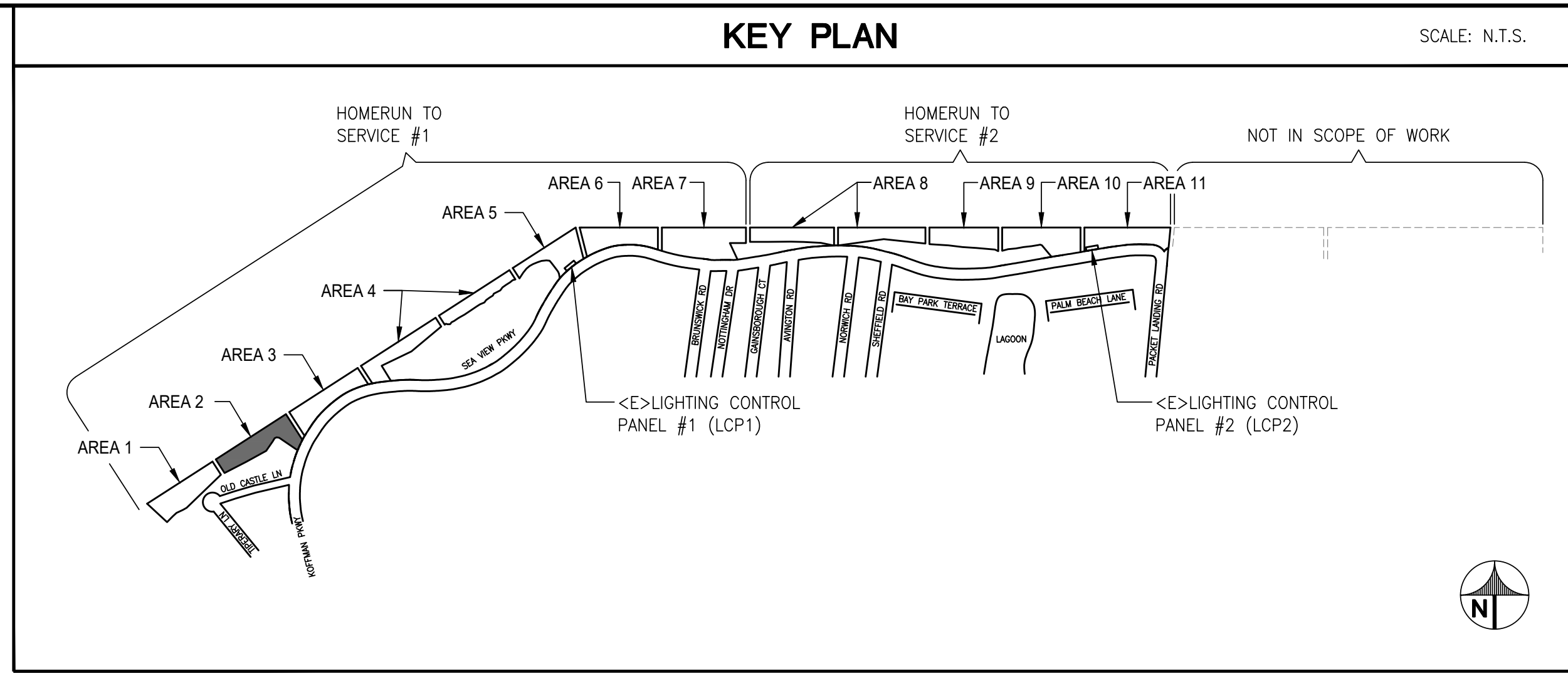
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
ELECTRICAL PARTIAL SITE PLAN AREA 1 - DEMOLITION

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

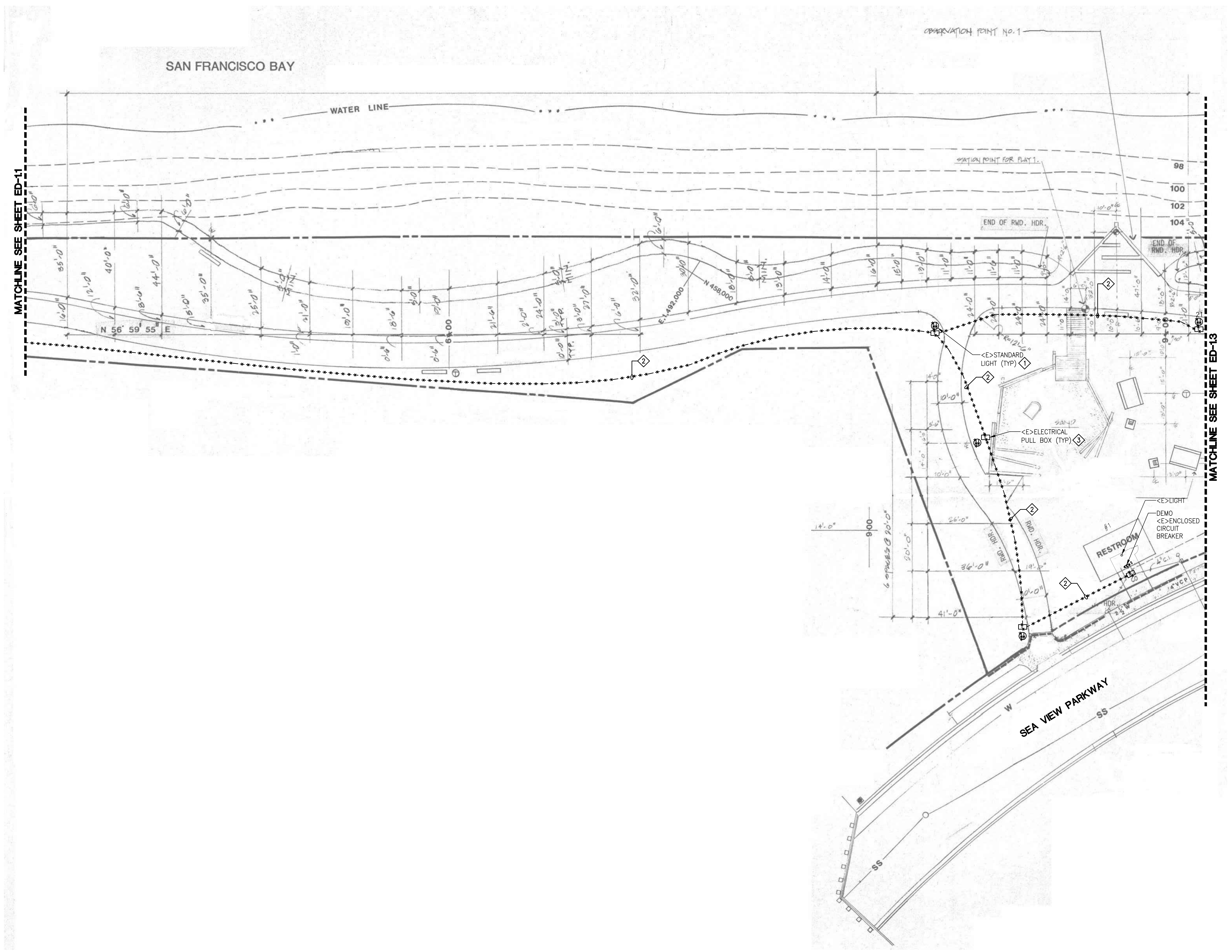
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1 PARTIAL SITE PLAN AREA 2 - DEMOLITION
SCALE: N.T.S.

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ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
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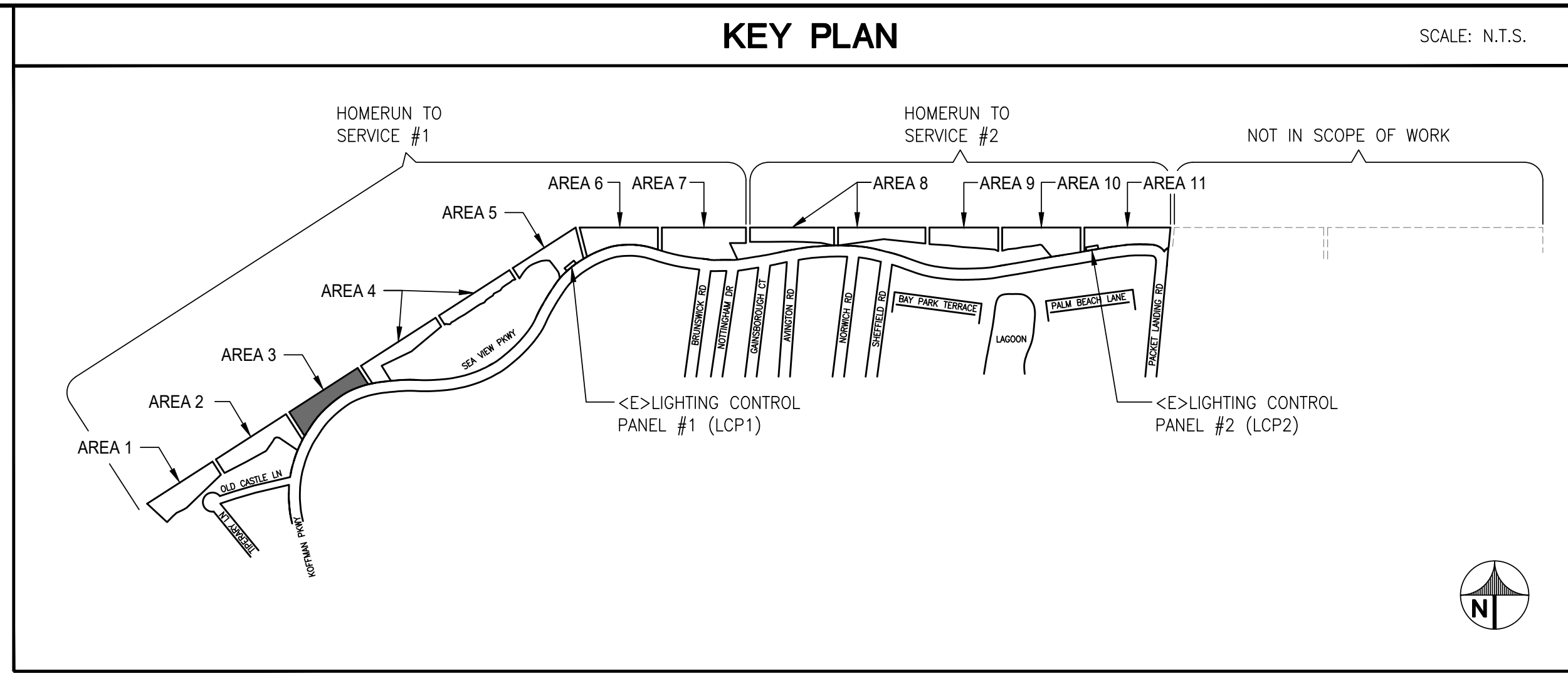
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 2 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

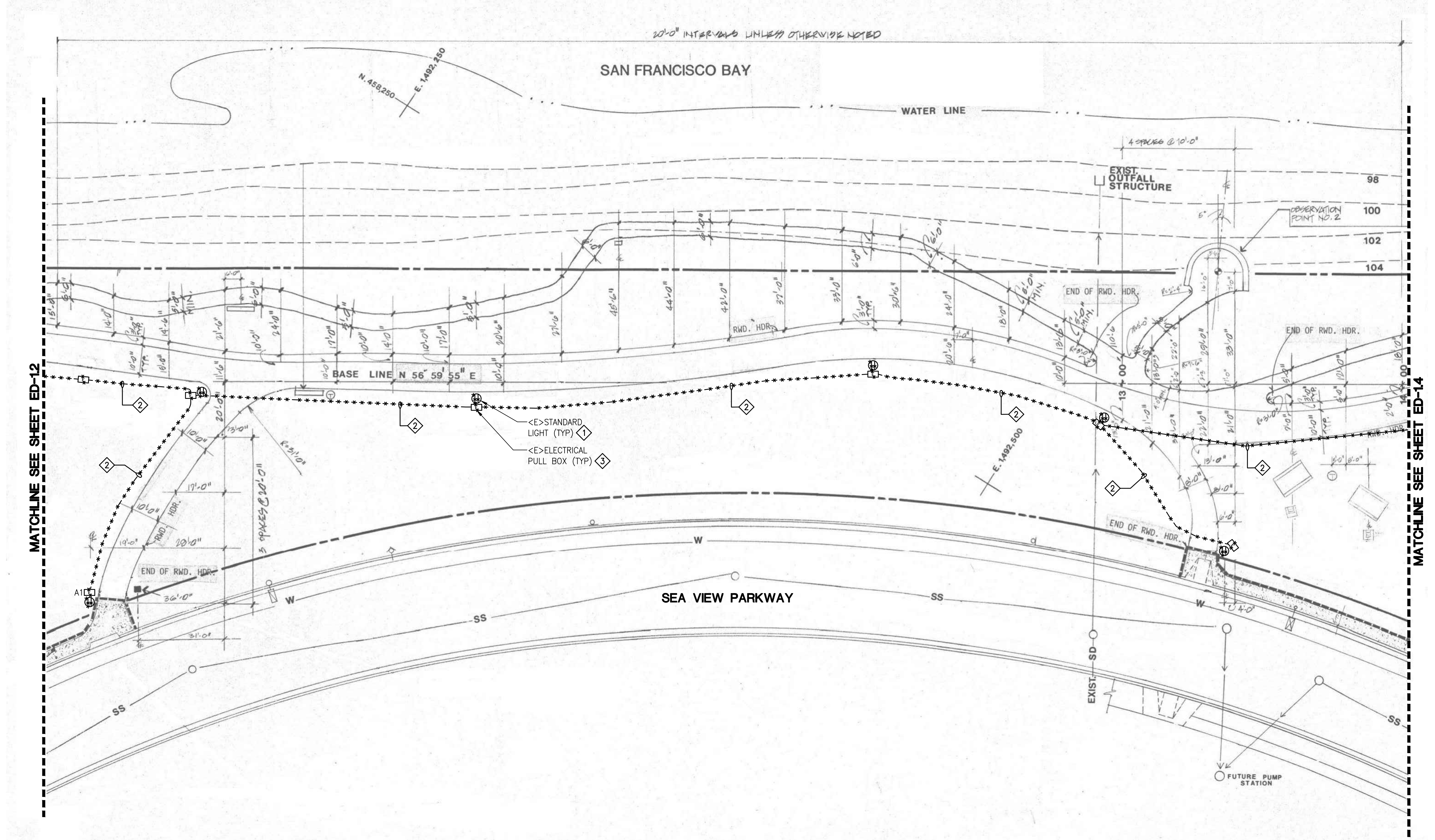
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SHEET OF XX

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1 PARTIAL SITE PLAN AREA 3 - DEMOLITION
SCALE: N.T.S.

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**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

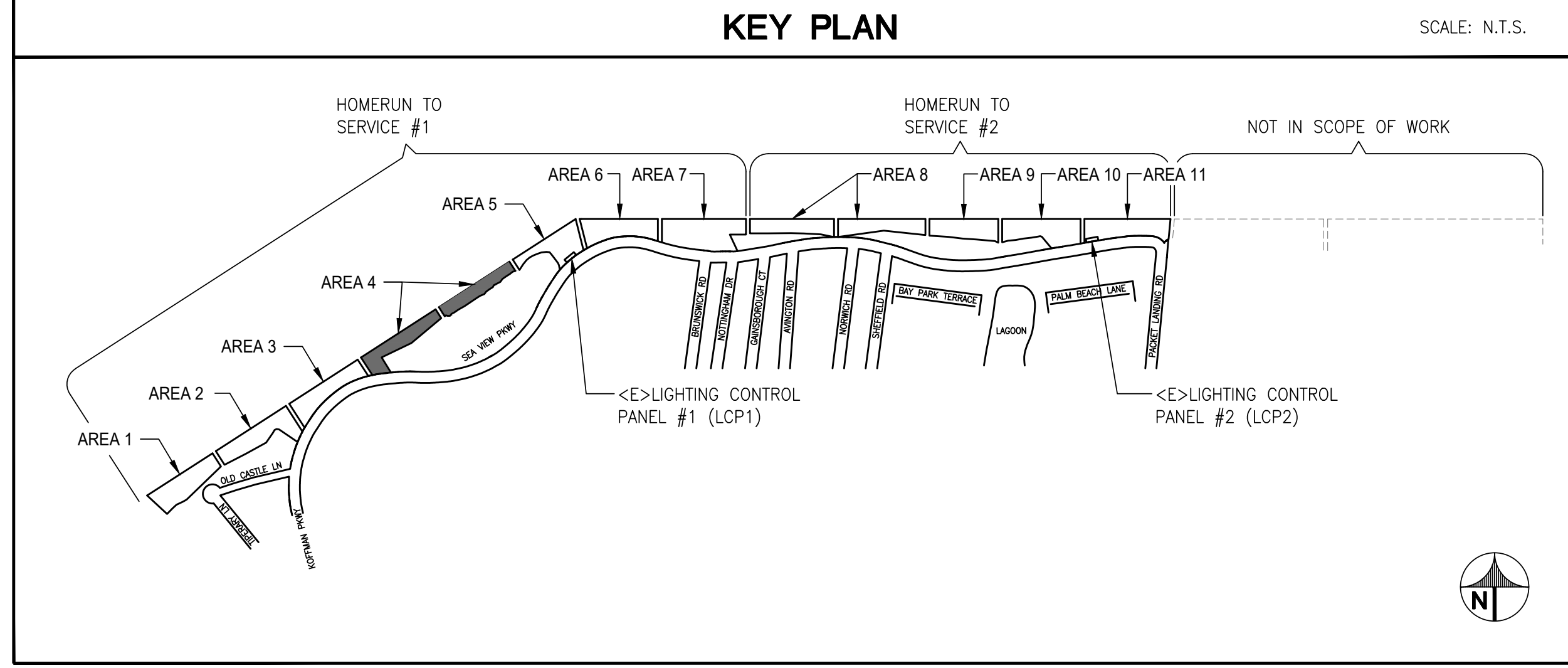
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	11/15/17	PERMIT RESUBMITTAL
	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 3 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

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ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN

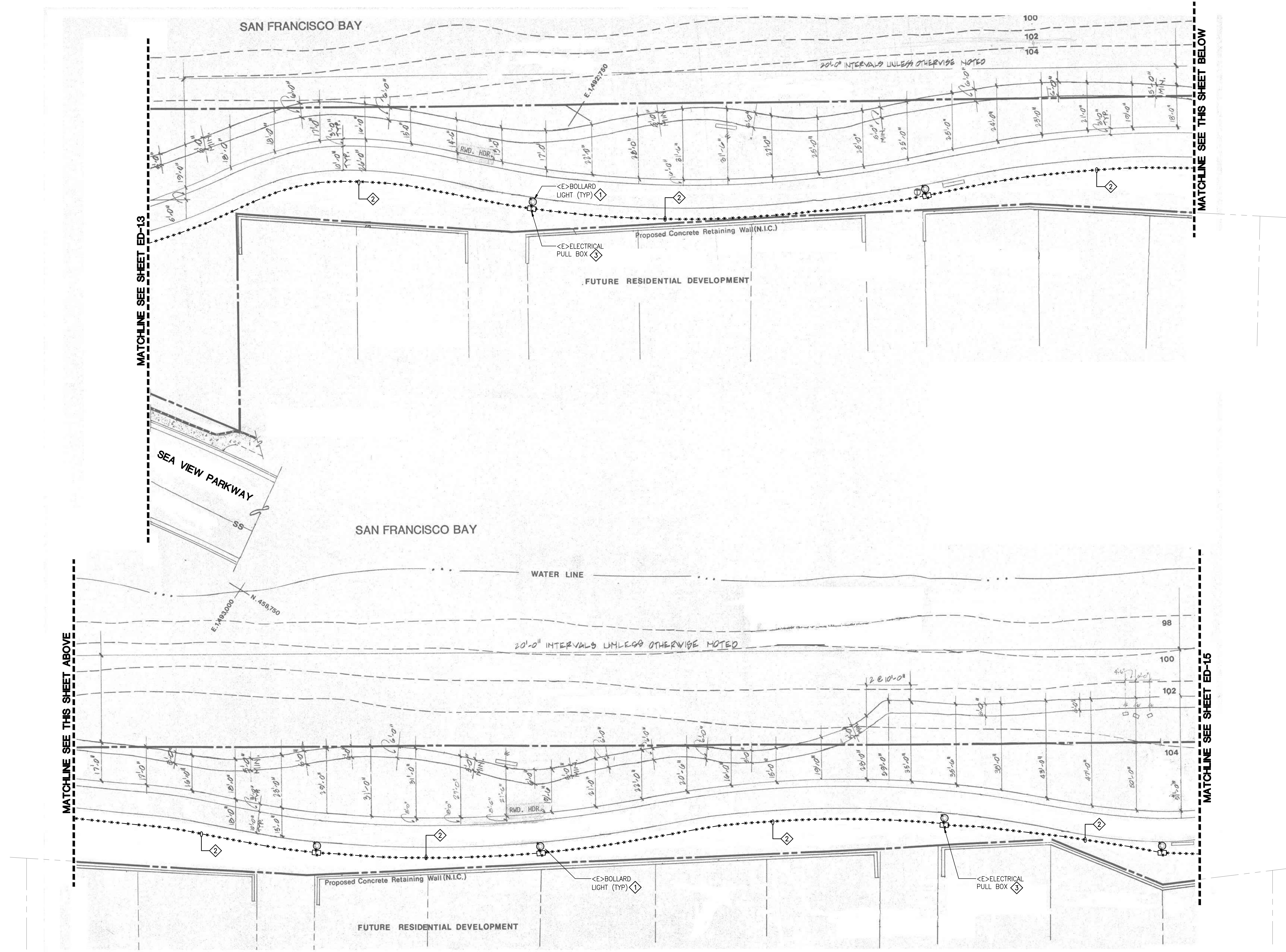
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SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 4 - DEMOLITION**

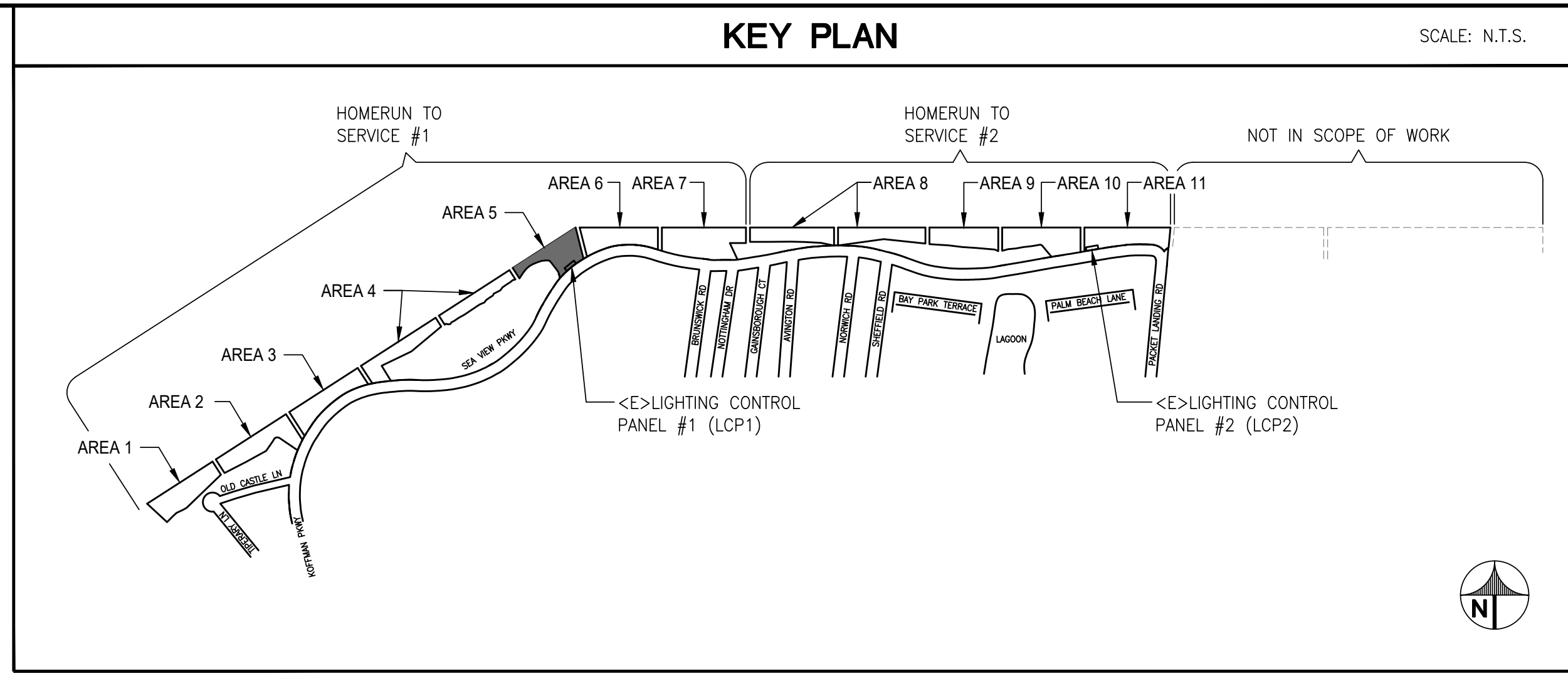
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ED-14
SHEET OF XX



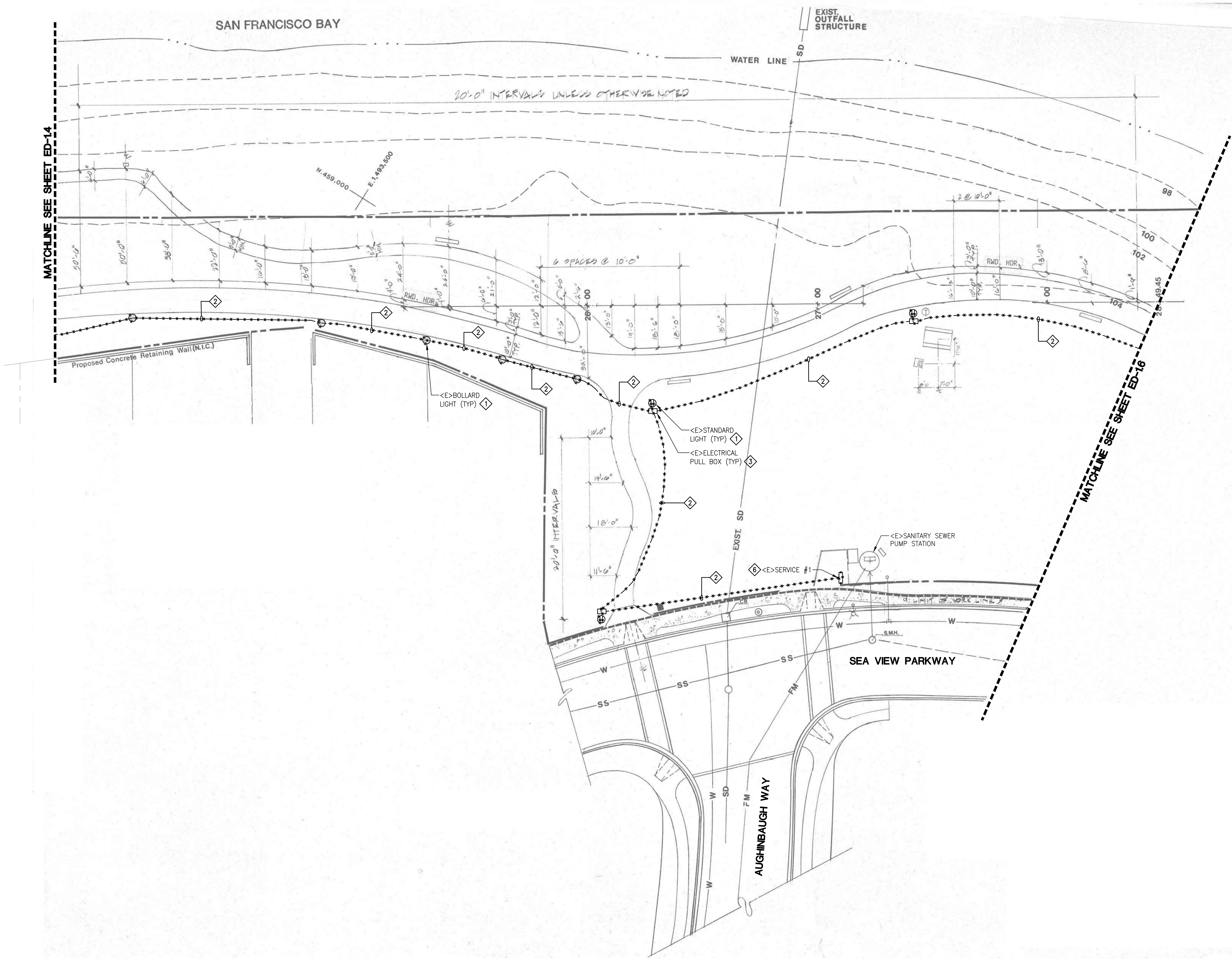
1 PARTIAL SITE PLAN AREA 4 - DEMOLITION
SCALE: N.T.S.

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1 PARTIAL SITE PLAN AREA 5 - DEMOLITION
SCALE: N.T.S.

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PATHWAY LIGHTING DESIGN**

ISSUE		
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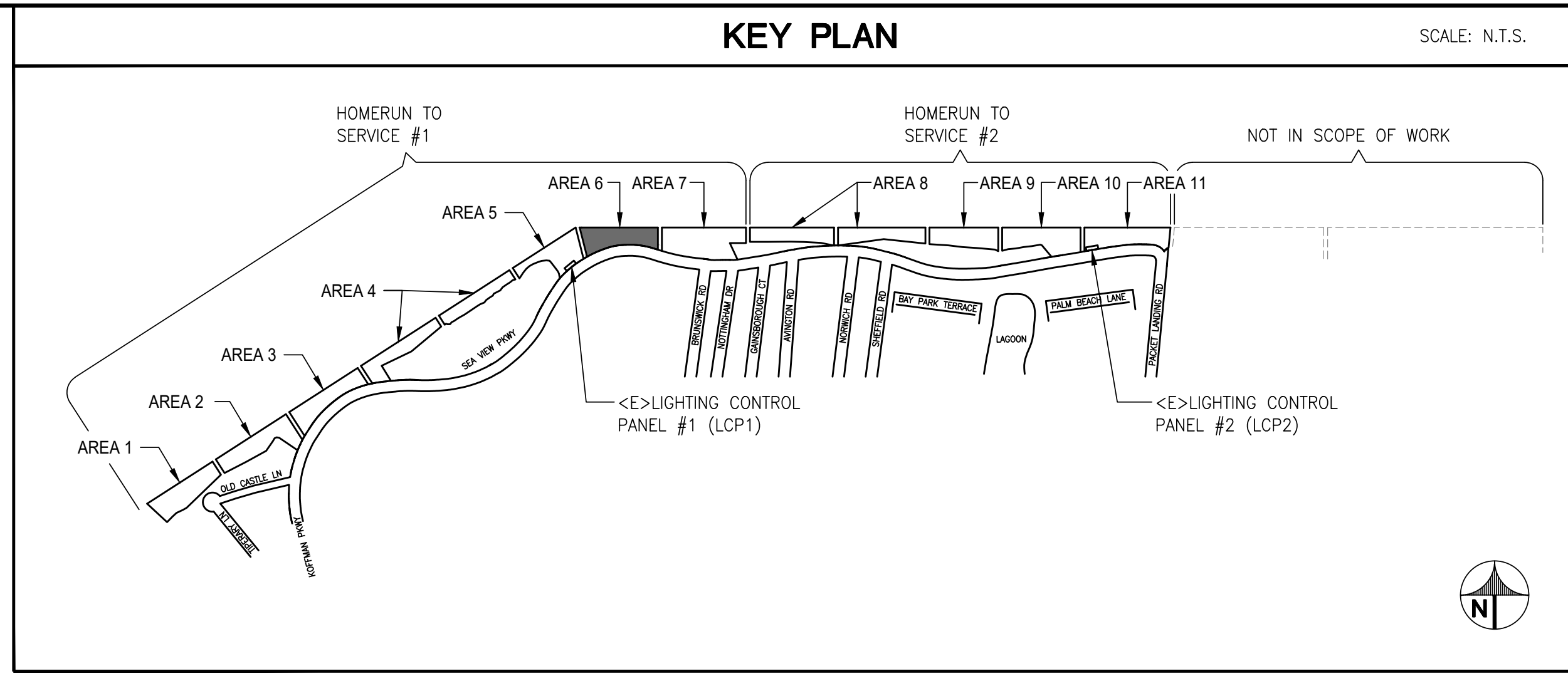
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CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 5 - DEMOLITION**

SCALE: AS NOTED
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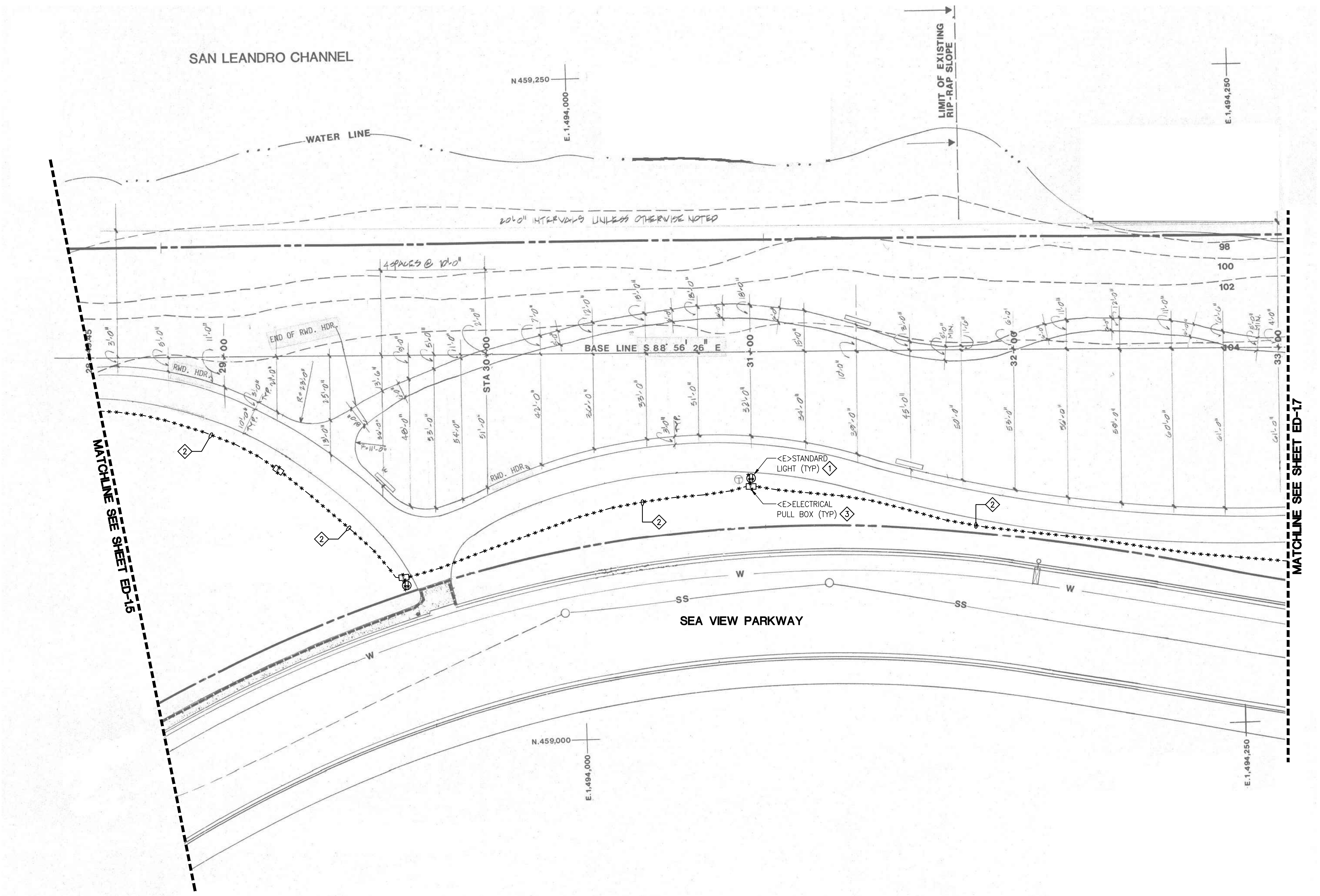
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SHEET OF XX

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 - DEMOLISH PULLBOX. CUT AND CAP INCOMING AND OUTGOING CONDUITS. ABANDON CONDUIT IN PLACE.
 - DEMOLISH LIGHT FIXTURE AND POST. EXISTING CIRCUIT AND WIRING TO REMAIN TO FEED NEW LIGHT FIXTURE. SEE NEW WORK.
 - ADD ALTERNATE PRICING:
 - DISCONNECT AND REMOVE CONDUCTORS BACK TO LIGHTING CONTROL CABINET. ABANDON CONDUIT IN PLACE.
 - DEMOLISH PULLBOX. CUT AND CAP INCOMING AND OUTGOING CONDUITS. ABANDON CONDUIT IN PLACE.
 - DEMOLISH METERED/CONTROL PANEL. INTERCEPT EXISTING CONDUITS AND WIRES INTO NEW 10"x17" UNDERGROUND PULLBOX. REUSE EXISTING INCOMING FEEDER TO FEED NEW METER/CONTROL PEDESTAL. SEE NEW WORK. COORDINATE WORK WITH POWER UTILITY.



1 PARTIAL SITE PLAN AREA 6 - DEMOLITION
SCALE: N.T.S.

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ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

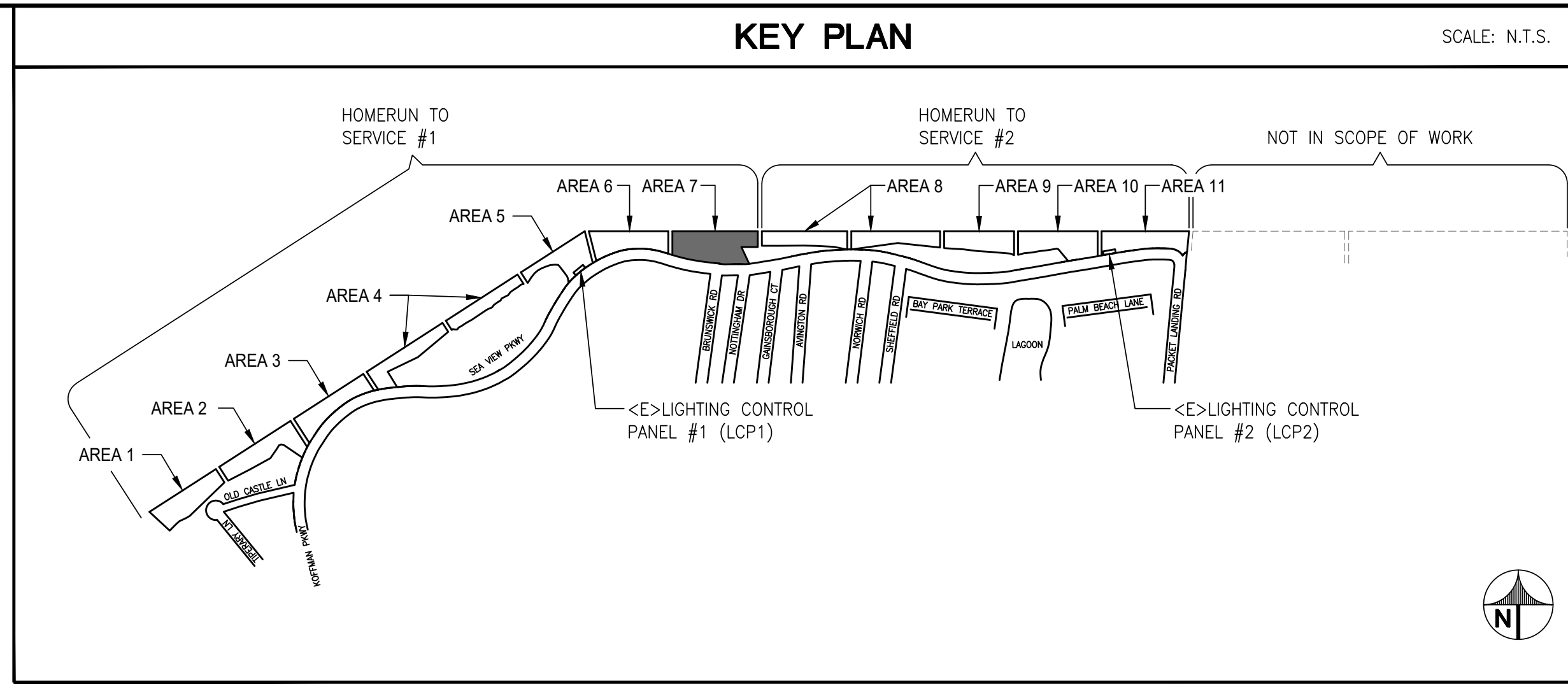
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	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 6 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

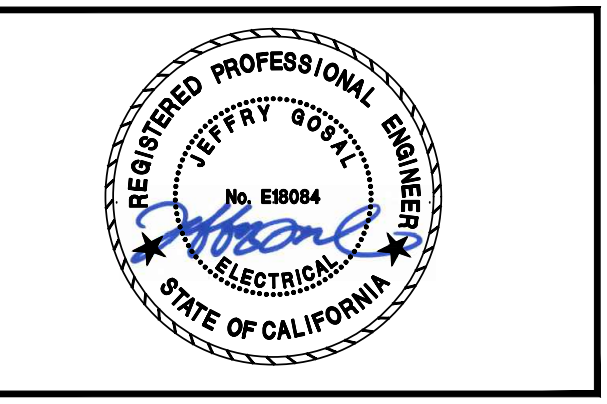
THIS DRAWING IS 30" X 42" AT FULL SIZE, 15" X 21" AT HALF SIZE. © 2015 BY SALAS OBRIEN ENGINEERS, INC.



- ### GENERAL SHEET NOTES
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
 - UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - ALL WIRES SHALL BE RATED THWN U.O.N.
 - NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
- DEMOLISH LIGHT FIXTURE, POST AND WIRING. REMOVE WIRES BACK TO LIGHTING CONTROL CABINET. ABANDON CONCRETE POLE FOUNDATION IN PLACE.
 - DISCONNECT AND REMOVE CONDUCTORS FROM EXISTING CONDUIT. ABANDON CONDUIT IN PLACE.
 - DEMOLISH PULLBOX. CUT AND CAP INCOMING AND OUTGOING CONDUITS. REMAIN TO FEED NEW LIGHT FIXTURE. SEE NEW WORK.
 - DEMOLISH LIGHT FIXTURE AND POST. EXISTING CIRCUIT AND WIRING TO REMAIN TO FEED NEW LIGHT FIXTURE. SEE NEW WORK.
 - ADD ALTERNATE PRICING:
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ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

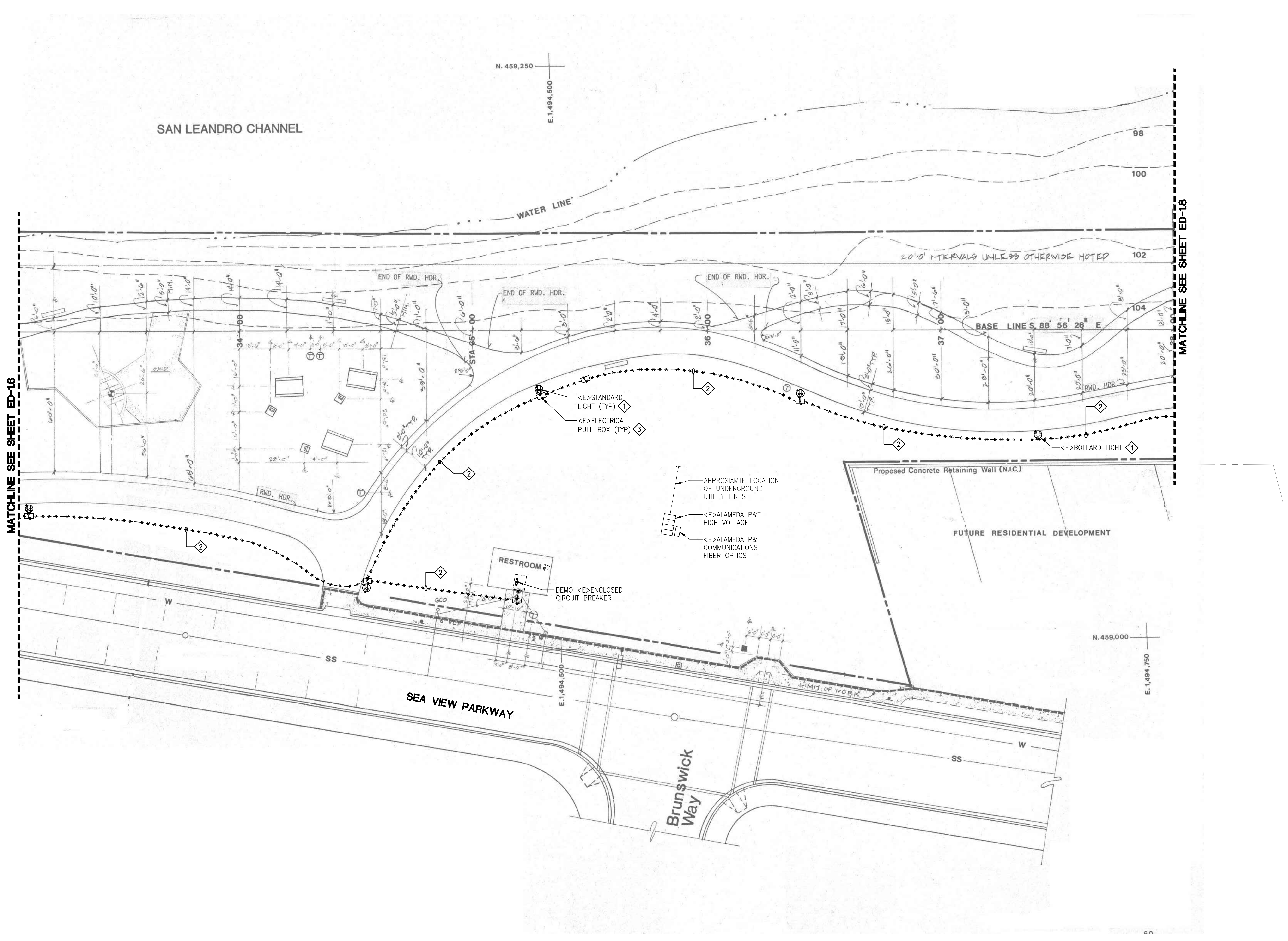
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	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

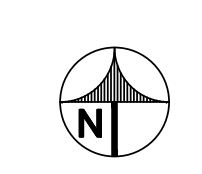
SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 7 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

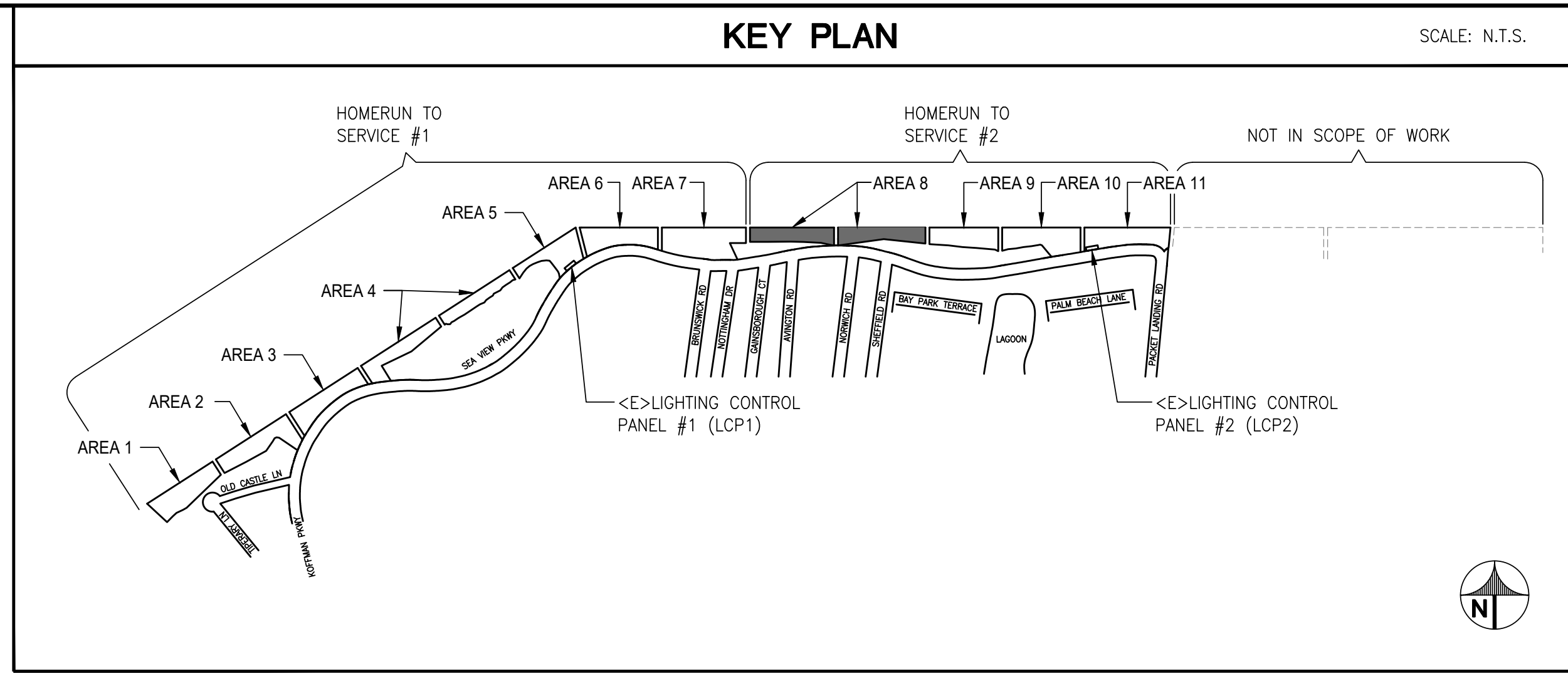
ED-17
SHEET OF XX



1 PARTIAL SITE PLAN AREA 7 - DEMOLITION
SCALE: N.T.S.



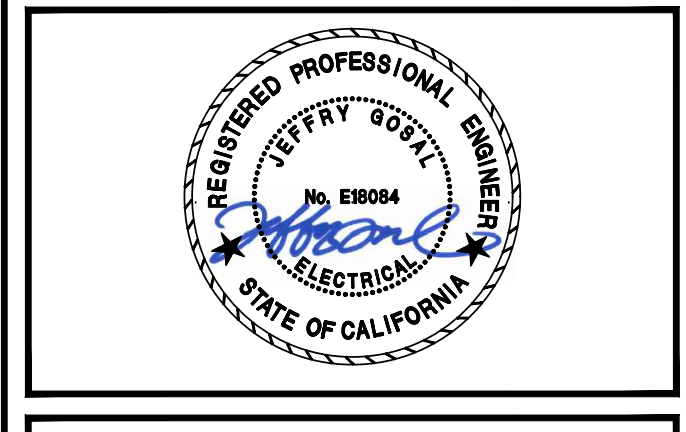
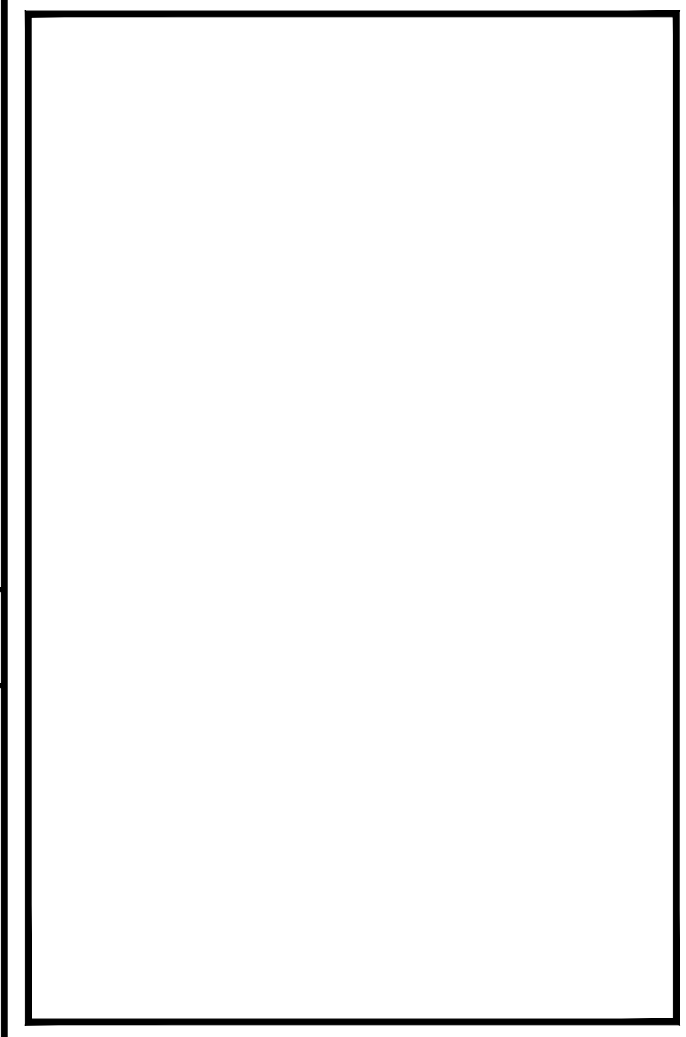
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 - DEMOLISH PULLBOX. CUT AND CAP INCOMING AND OUTGOING CONDUITS. ABANDON CONDUIT IN PLACE.
 - DEMOLISH LIGHT FIXTURE, POST AND FOUNDATION. DISCONNECT AND REMOVE CONDUITS AND WIRES BACK TO CLOSEST UNDERGROUND PULLBOX. REUSE EXISTING CIRCUIT AND CONDUIT WIRING FOR NEW LIGHT FIXTURE. SEE NEW WORK.
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**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

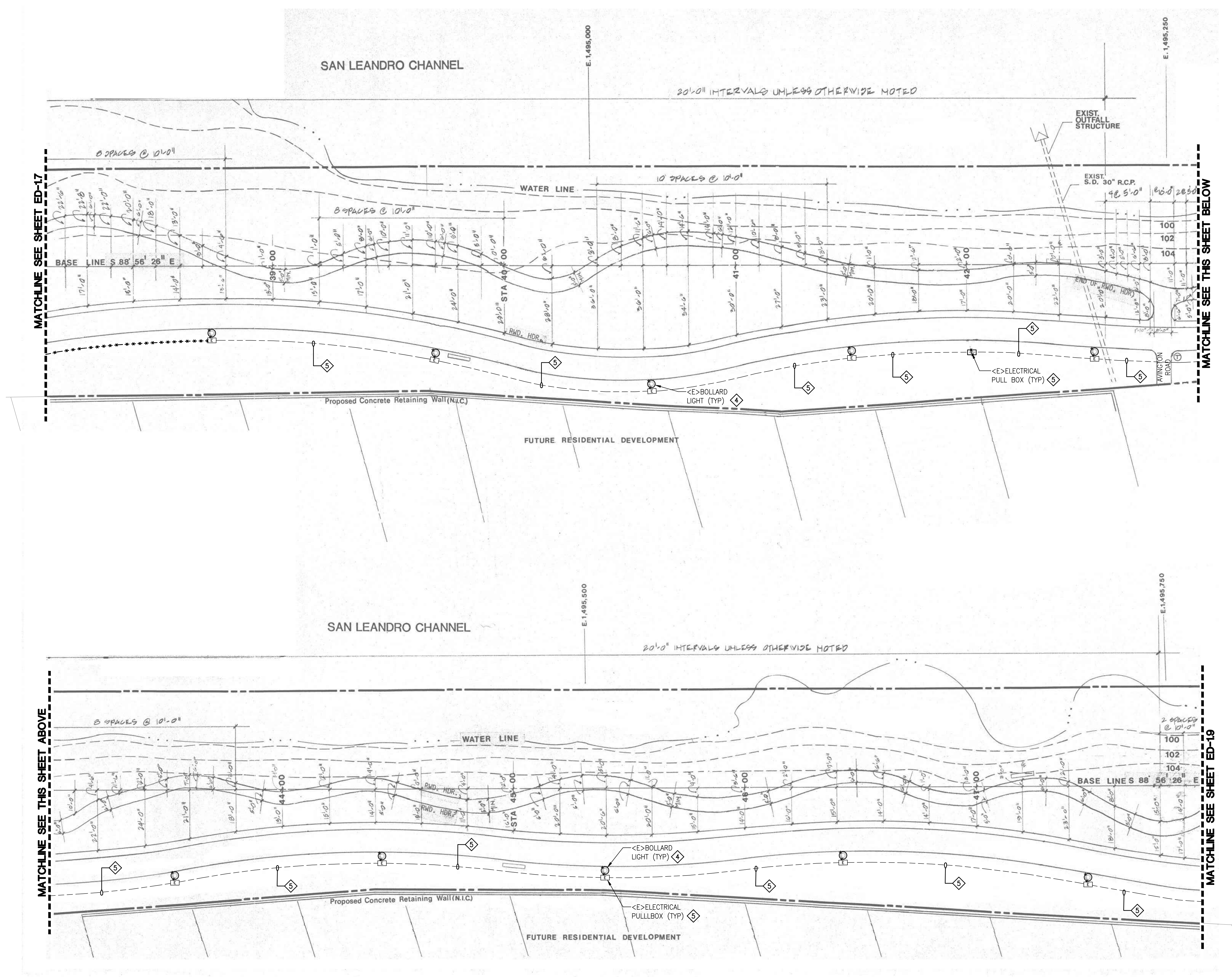
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	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 8 - DEMOLITION**

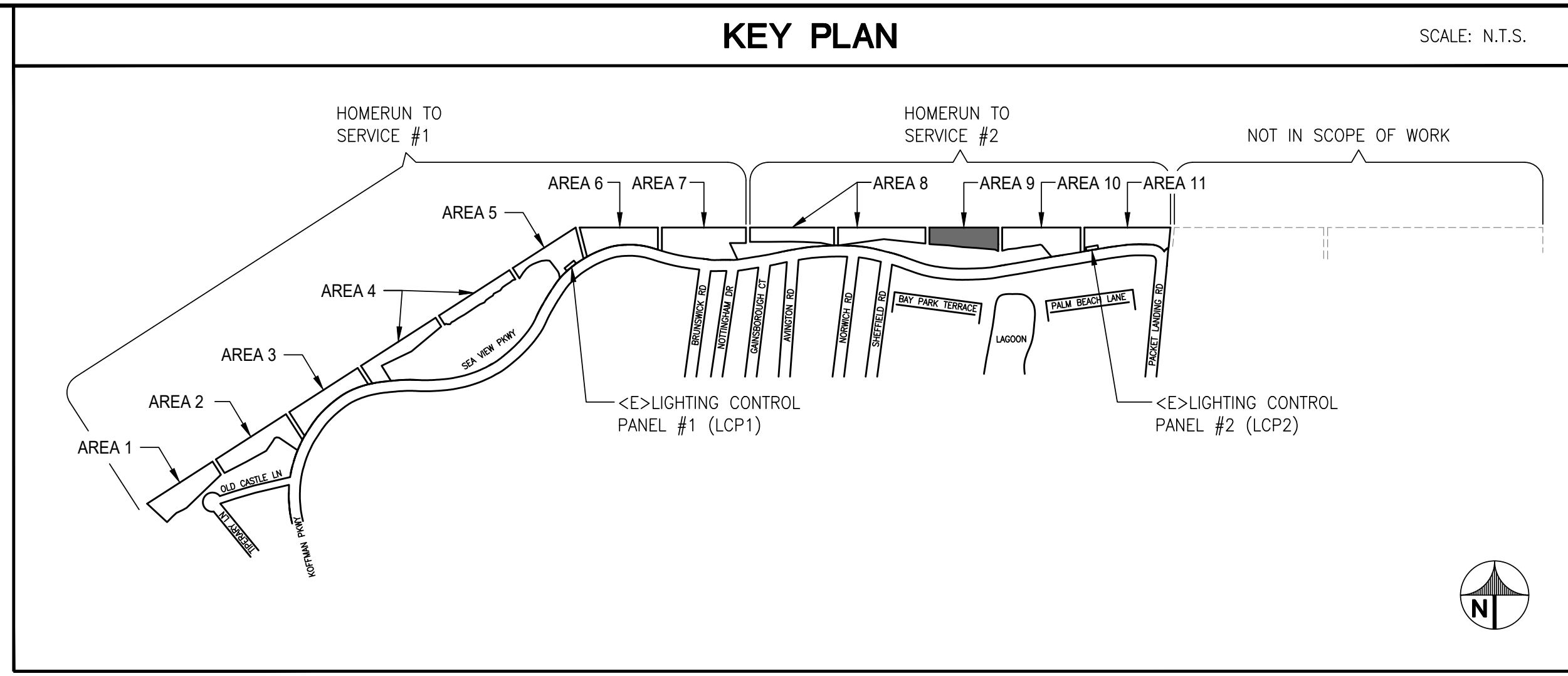
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THIS DRAWING IS 30" X 42" AT FULL SIZE

ED-18
SHEET OF XX



1 PARTIAL SITE PLAN AREA 8 - DEMOLITION
SCALE: N.T.S.

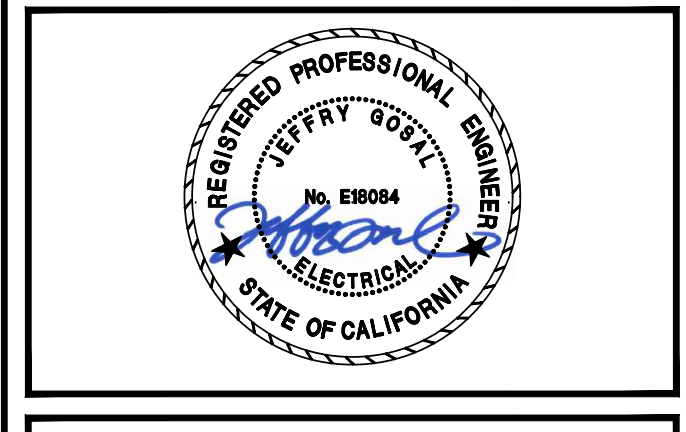
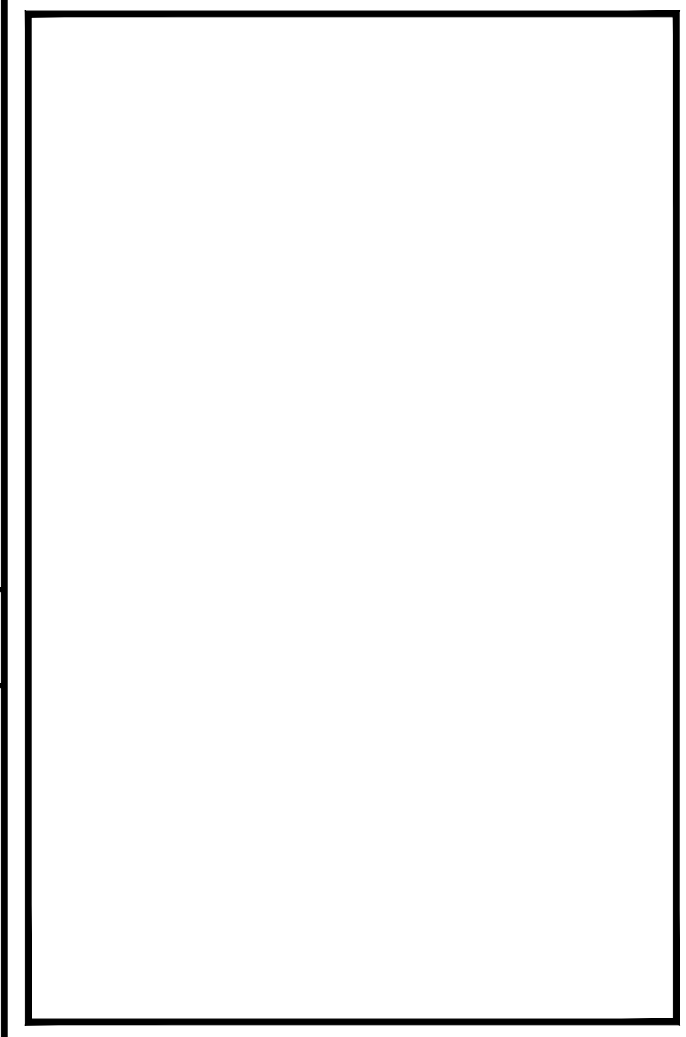
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- ### GENERAL SHEET NOTES
- A. CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - B. OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - C. NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - D. EXISTING PHOTOCELLS SHALL BE REMOVED.
 - E. UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - F. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - G. CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - H. ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
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 - L. ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
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 - 4. DEMOLISH LIGHT FIXTURE, POST AND FOUNDATION. DISCONNECT AND REMOVE CONDUITS AND WIRES BACK TO CLOSEST UNDERGROUND PULLBOX. REUSE EXISTING CIRCUIT AND CONDUIT WIRING FOR NEW LIGHT FIXTURE. SEE NEW WORK.
 - 5. ADD ALTERNATE PRICING:
 1. DISCONNECT AND REMOVE CONDUCTORS BACK TO LIGHTING CONTROL CABINET. ABANDON CONDUIT IN PLACE.
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 - 6. DEMOLISH METERED/CONTROL PANEL. INTERCEPT EXISTING CONDUITS AND WIRES INTO NEW 10"x17" UNDERGROUND PULLBOX. REUSE EXISTING INCOMING FEEDER TO FEED NEW METER/CONTROL PANEL. SEE NEW WORK. COORDINATE WORK WITH POWER UTILITY.

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ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

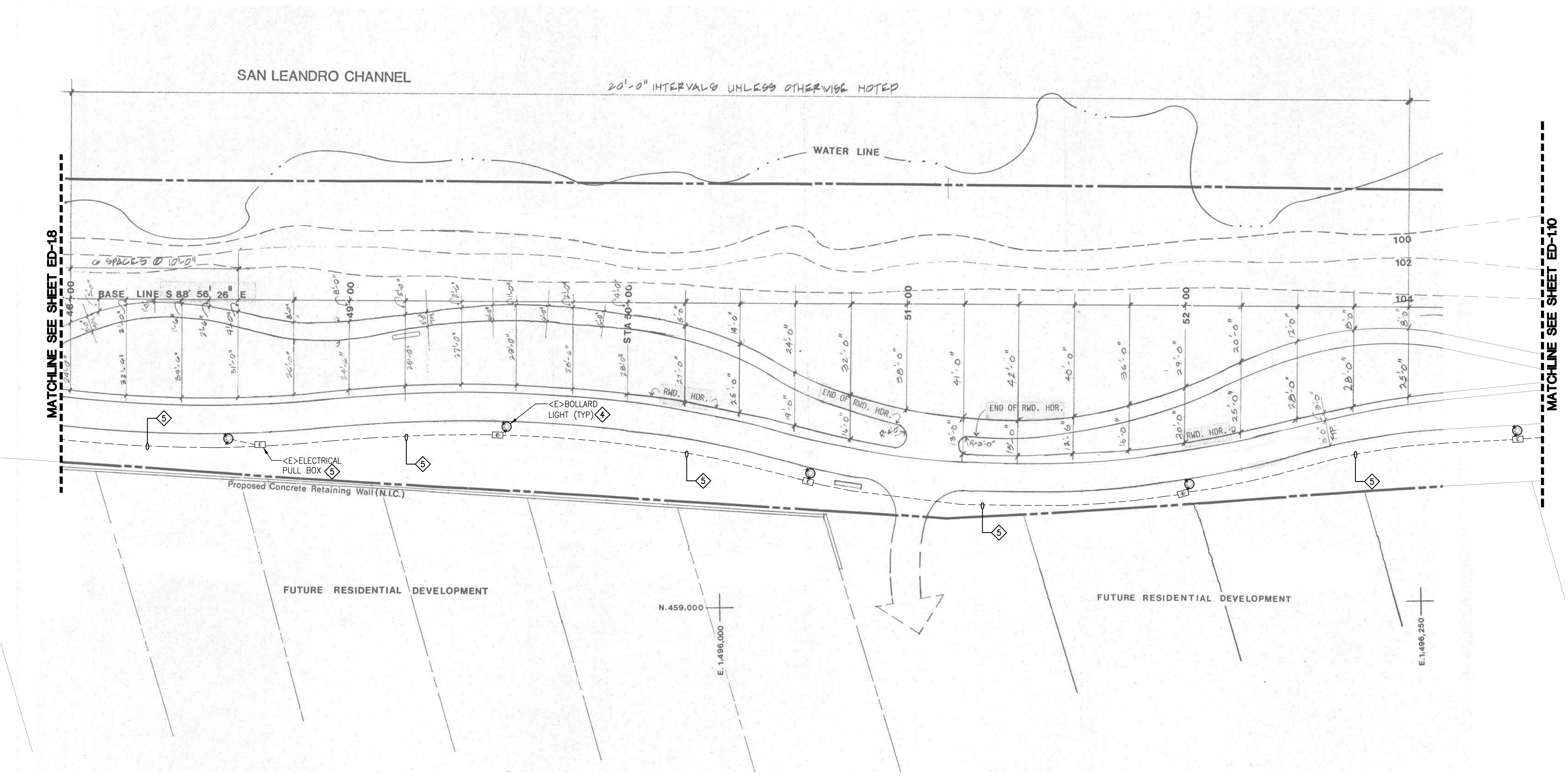
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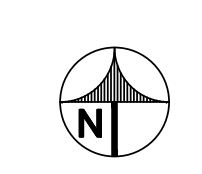
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**ELECTRICAL
PARTIAL SITE PLAN
AREA 9 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

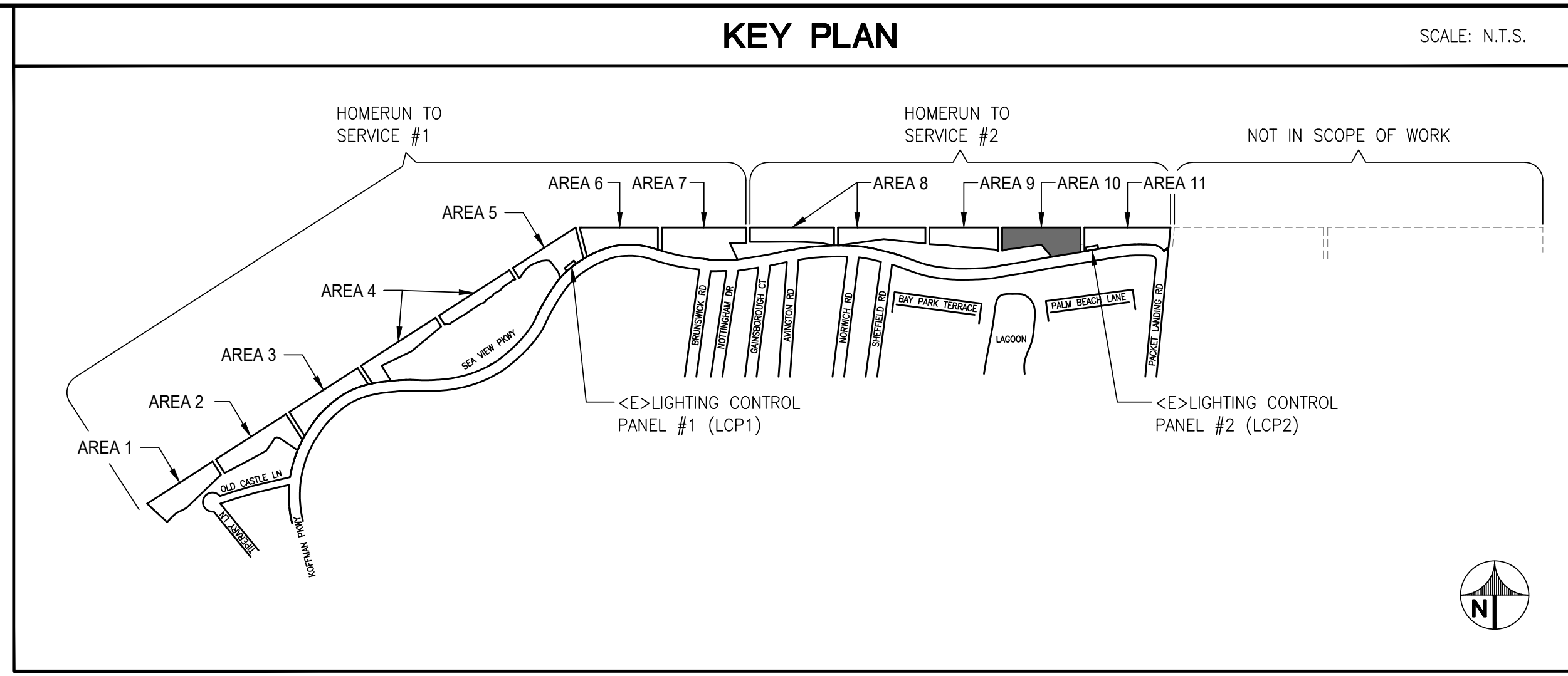
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1 PARTIAL SITE PLAN AREA 9 - DEMOLITION
SCALE: N.T.S.

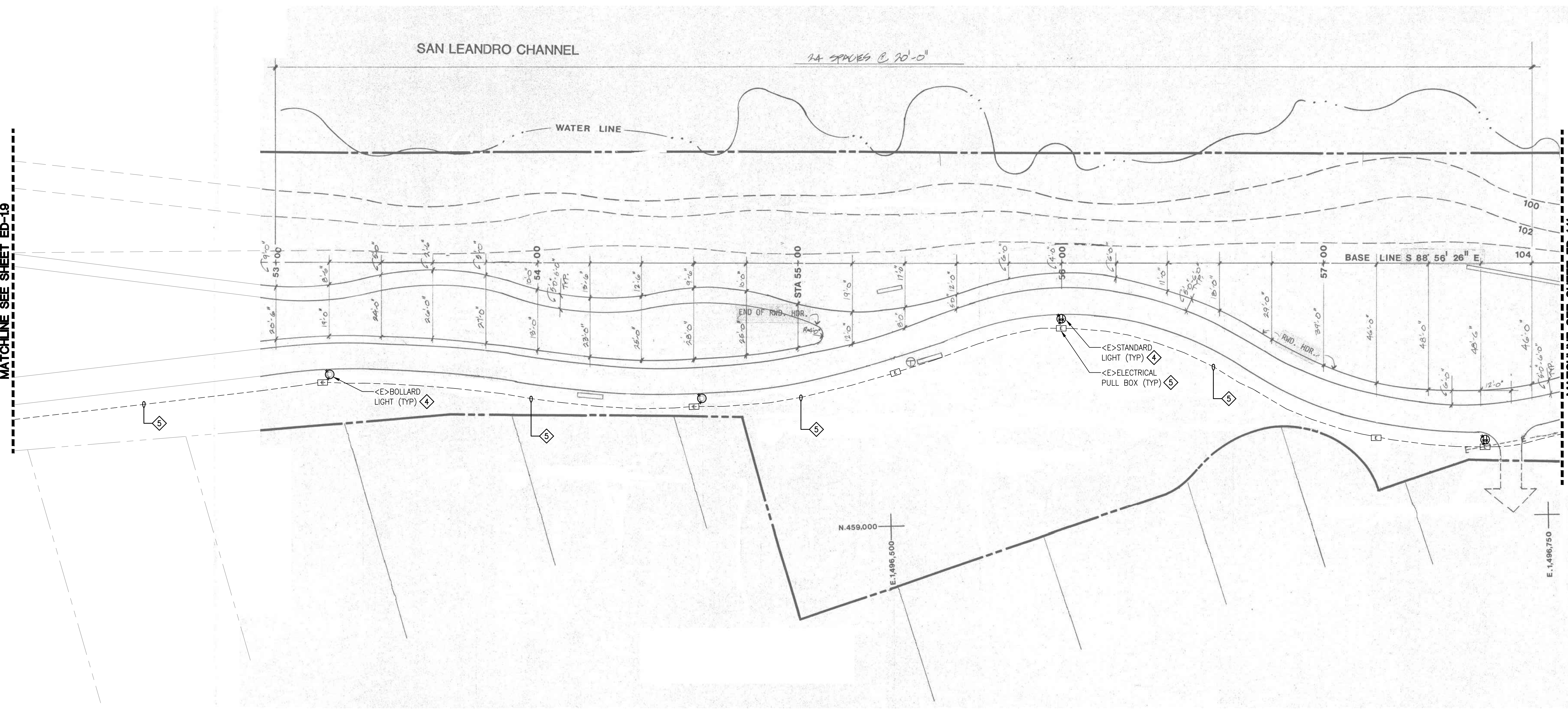


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 - B. OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - C. NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
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 - H. ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
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- ### REFERENCE SHEET NOTES
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 - 5. ADD ALTERNATE PRICING:
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1 PARTIAL SITE PLAN AREA 10 - DEMOLITION
SCALE: N.T.S.

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**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
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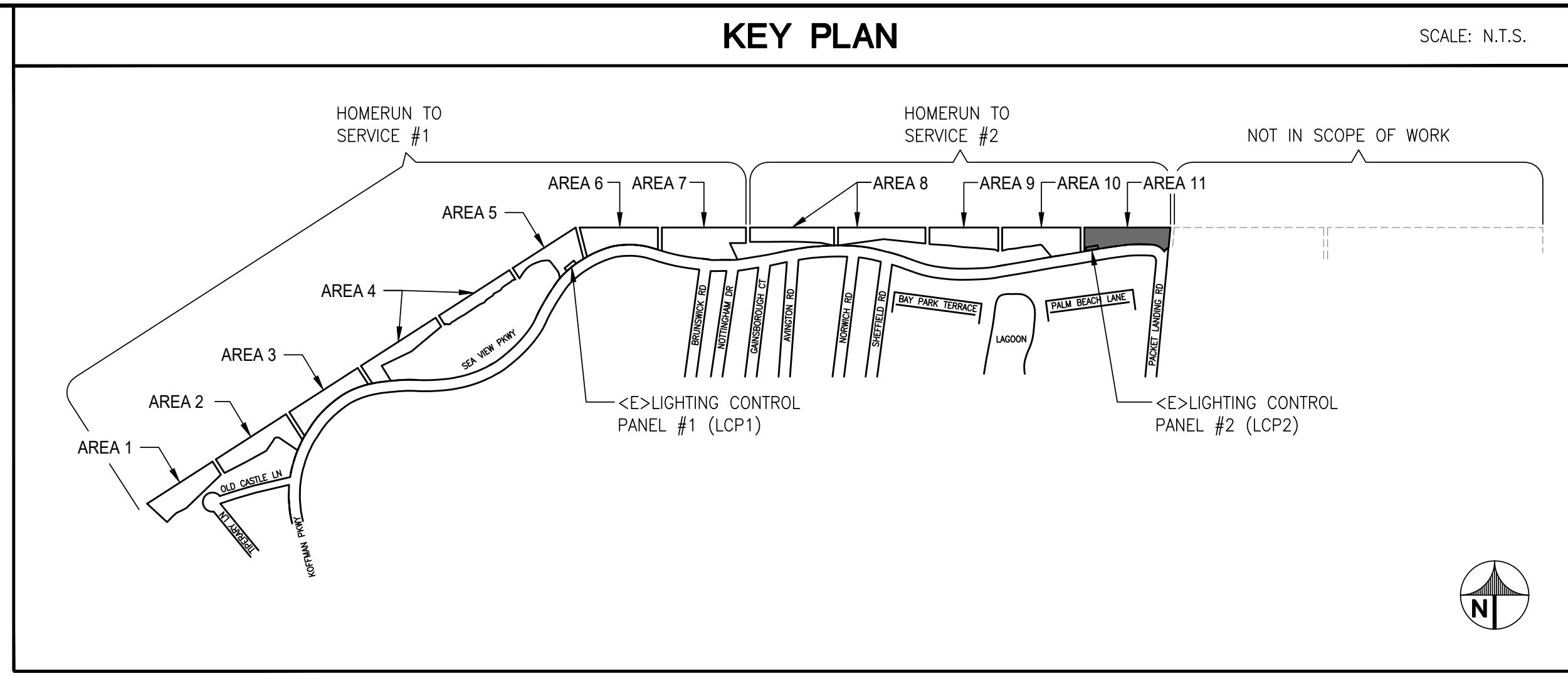
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DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 10 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

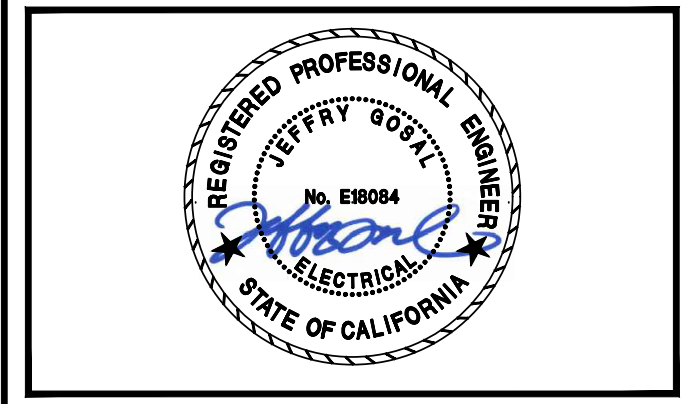
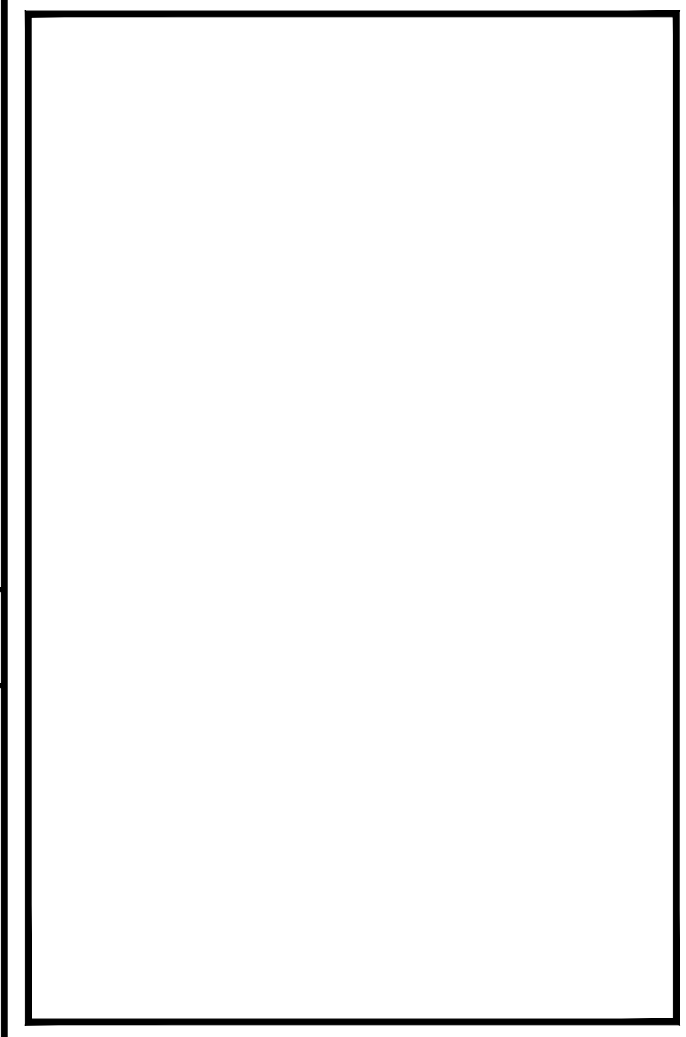
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ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN

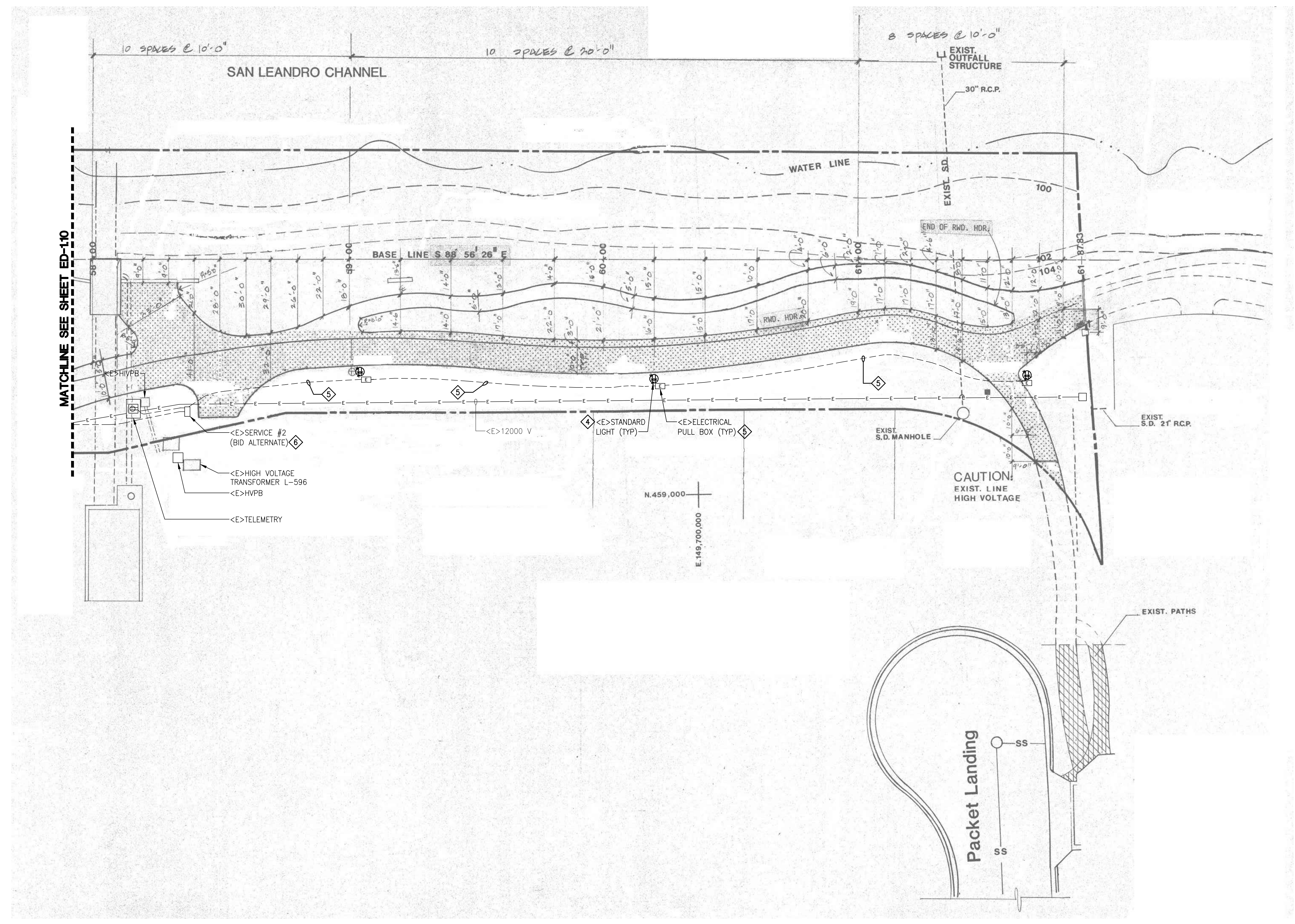
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	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

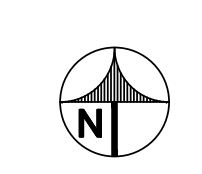
SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 11 - DEMOLITION**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

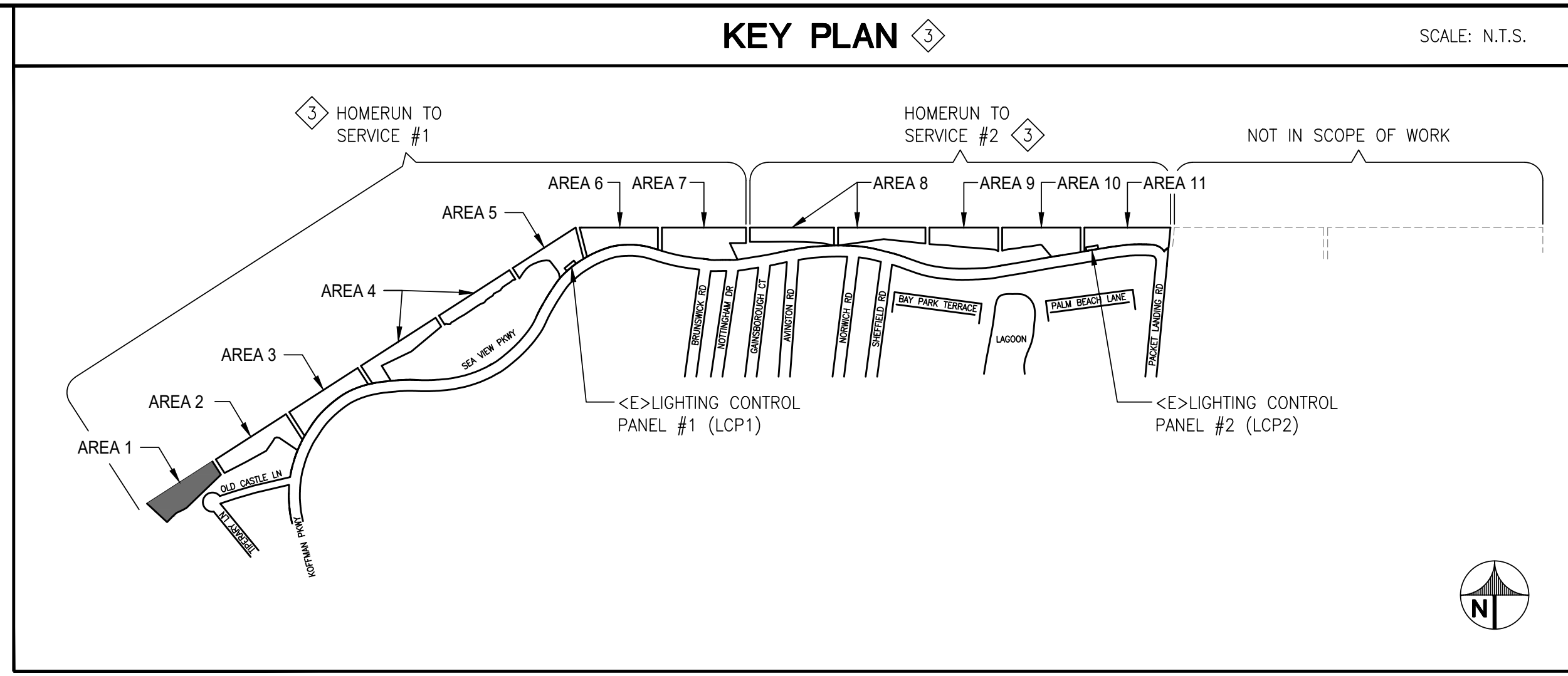
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SHEET OF XX



1 PARTIAL SITE PLAN AREA 11 - DEMOLITION
SCALE: N.T.S.



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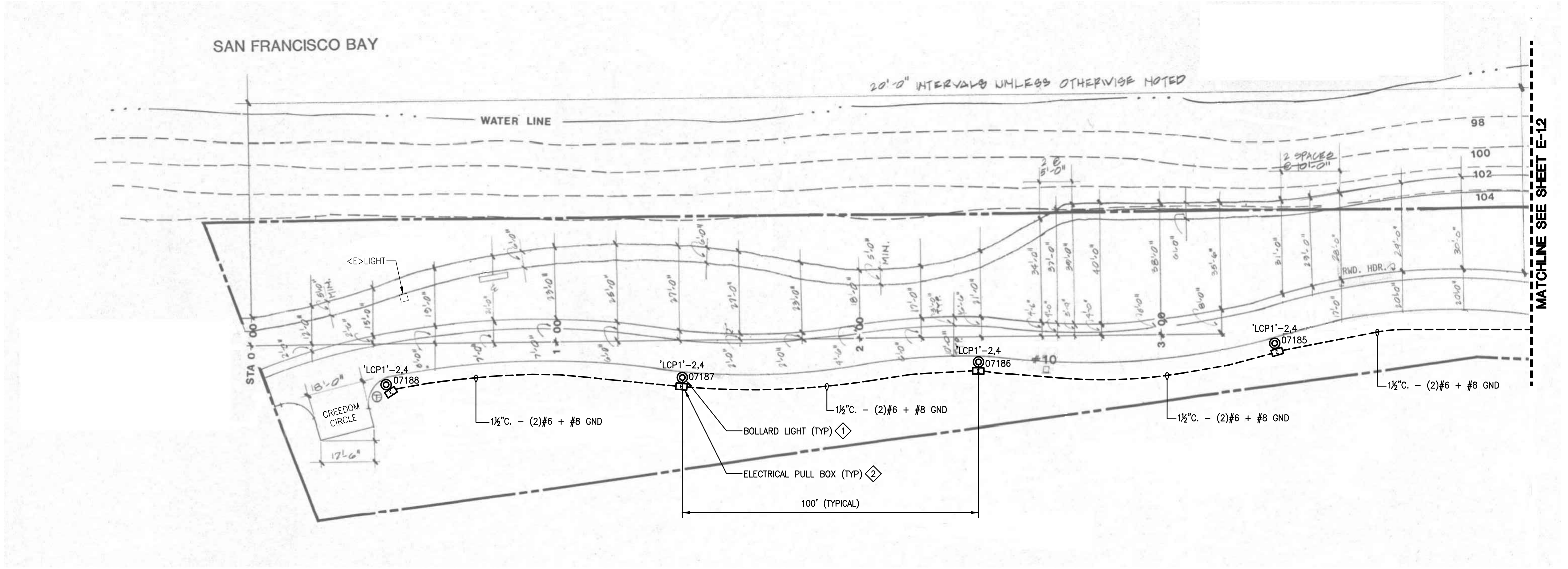


GENERAL SHEET NOTES

- A. CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
- B. OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
- C. NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
- D. EXISTING PHOTOCELLS SHALL BE REMOVED.
- E. UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
- F. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
- G. CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
- H. ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
- I. ALL WIRES SHALL BE RATED THWN U.O.N.
- J. NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
- K. LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
- L. ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
- M. ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

REFERENCE SHEET NOTES

- 1. FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- 2. FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
- 3. FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
- 4. INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
- 5. FURNISH AND INSTALL NEW SUB-PANEL. INTERCEPT AND EXTEND EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW PANEL LOCATION. REFER TO PANEL SCHEDULE.
- 6. FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- 7. ADD ALTERNATE PRICING 1:
 - 1. FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - 2. INSTALL NEW UNDERGROUND PULLBOXES.
 - 3. LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
- 8. ADD ALTERNATE PRICING 2:
 - 1. DEMOLISH EXISTING LIGHTING CONTROL CABINET AND INSTALL NEW 100A/2P, 480/277V, 1P, 3W NEMA 4X, METERED/LIGHTING CONTROL PEDESTAL. PROVIDE 5KVA STEP-DOWN TRANSFORMER, 480-240/120V, 1P, 3W. REFER TO DETAIL AND PANEL SCHEDULE.
 - 2. INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - 3. FURNISH AND INSTALL NEW GATE ENCLOSURE AROUND EXISTING SERVICE PANEL AND LIGHTING CONTROL PANEL. REFER TO DETAILS 6,7,8,9/E-5.2 AND 2/E-5.3.



1 PARTIAL SITE PLAN AREA 1 - NEW
SCALE: N.T.S.

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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
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	08/05/19	BULLETIN #1
	09/18/20	100% CD

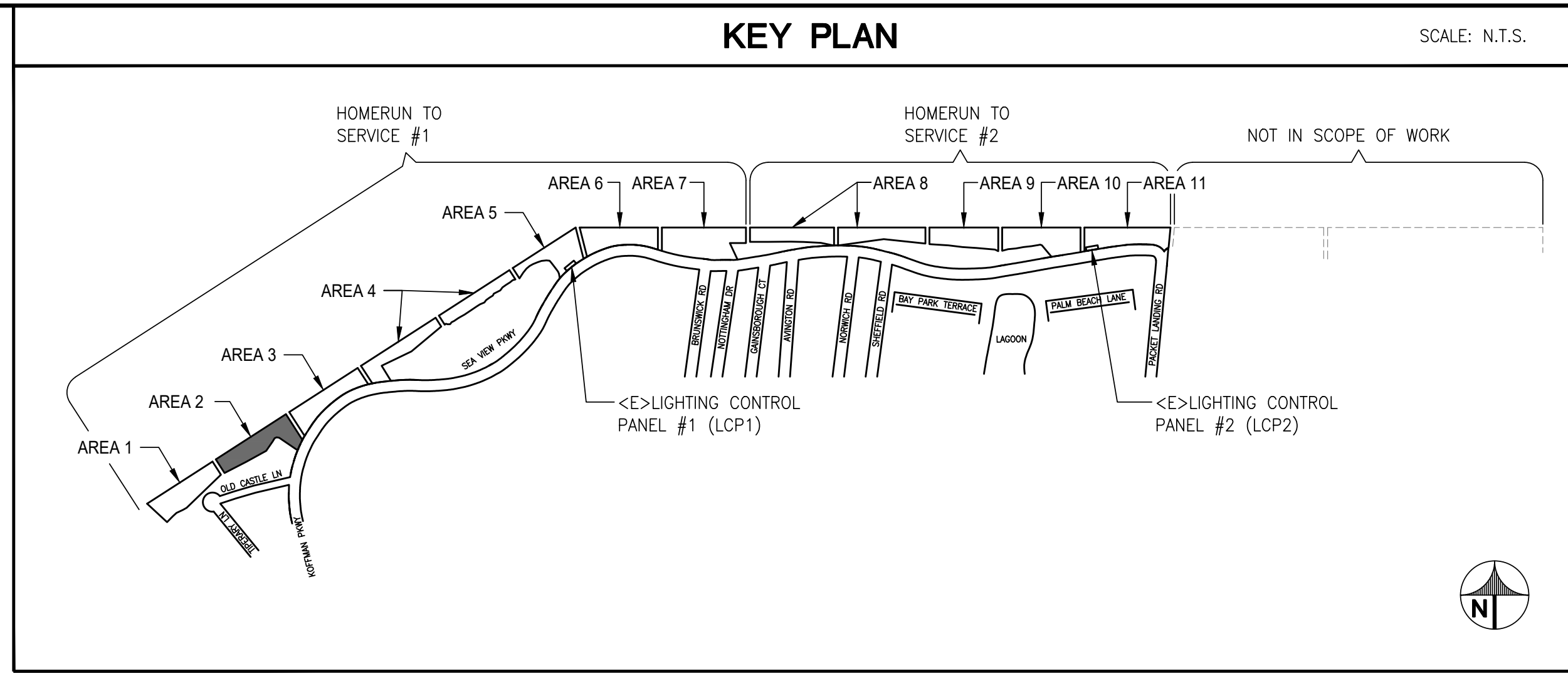
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 1 - NEW**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

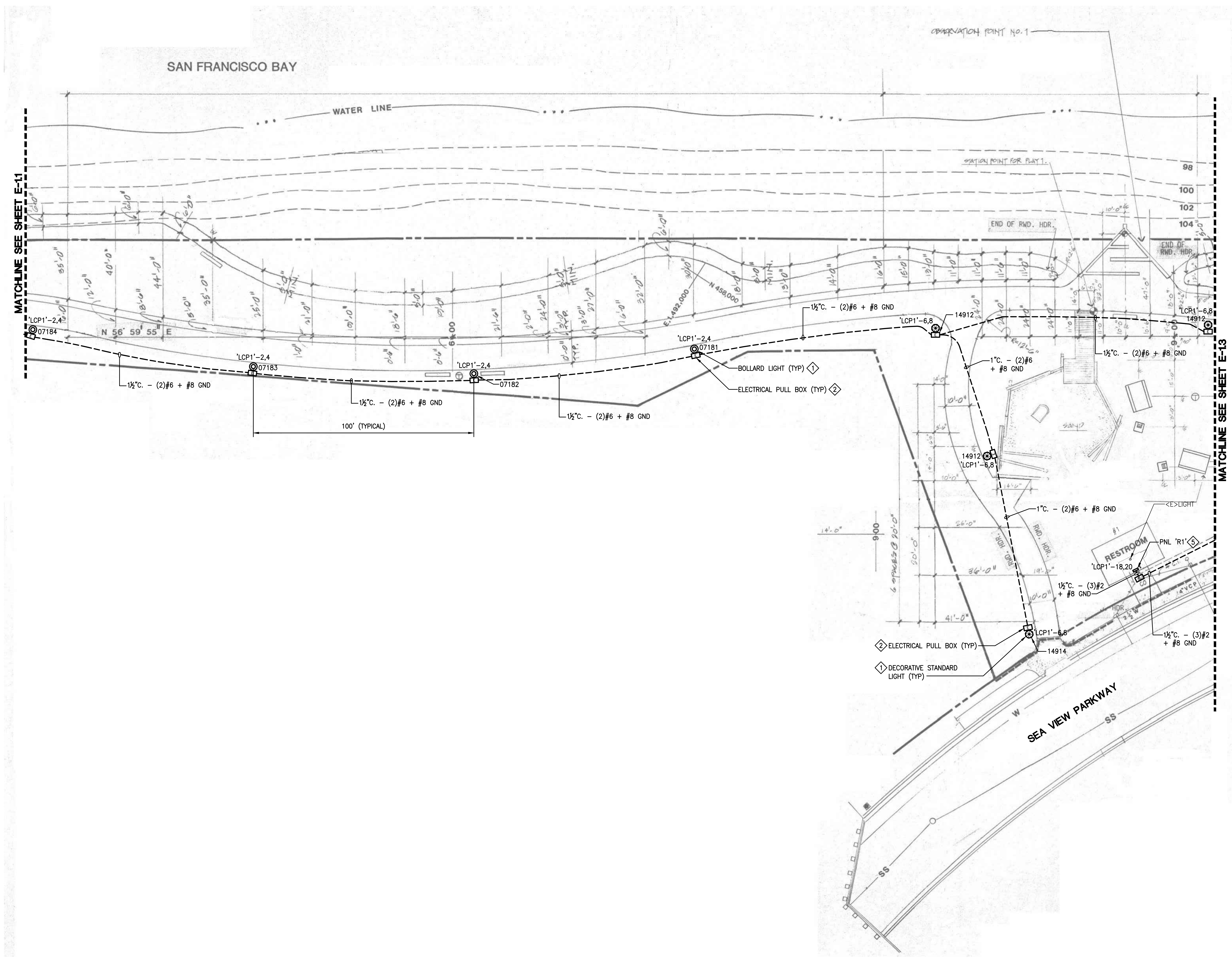
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THIS DRAWING IS 30" X 42" AT FULL SIZE, 15" X 21" AT HALF SIZE. © 2015 BY SALAS O'BRIEN ENGINEERS, INC.



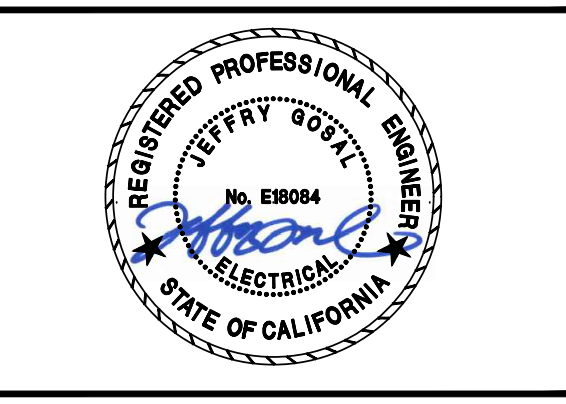
- ### GENERAL SHEET NOTES
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
 - UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - ALL WIRES SHALL BE RATED THWN U.O.N.
 - NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - FURNISH AND INSTALL NEW SUB-PANEL. INTERCEPT AND EXTEND EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW PANEL LOCATION. REFER TO PANEL SCHEDULE.
 - FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- ADD ALTERNATE PRICING 1:
- FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - INSTALL NEW UNDERGROUND PULLBOXES.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
- ADD ALTERNATE PRICING 2:
- DEMOLISH EXISTING LIGHTING CONTROL CABINET AND INSTALL NEW 100A/2P, 480/277V, 1P, 3W NEMA 4X, METERED/LIGHTING CONTROL PEDESTAL. PROVIDE 5KVA STEP-DOWN TRANSFORMER, 480-240/120V, 1P, 3W. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - FURNISH AND INSTALL NEW GATE ENCLOSURE AROUND EXISTING SERVICE PANEL AND LIGHTING CONTROL PANEL. REFER TO DETAILS 6,7,8,9/E-5.2 AND 2/E-5.3.



1 PARTIAL SITE PLAN AREA 2 - NEW
SCALE: N.T.S.

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ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
	10/05/17	BID/PERMIT SUBMITTAL
	11/15/17	PERMIT RESUBMITTAL
	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

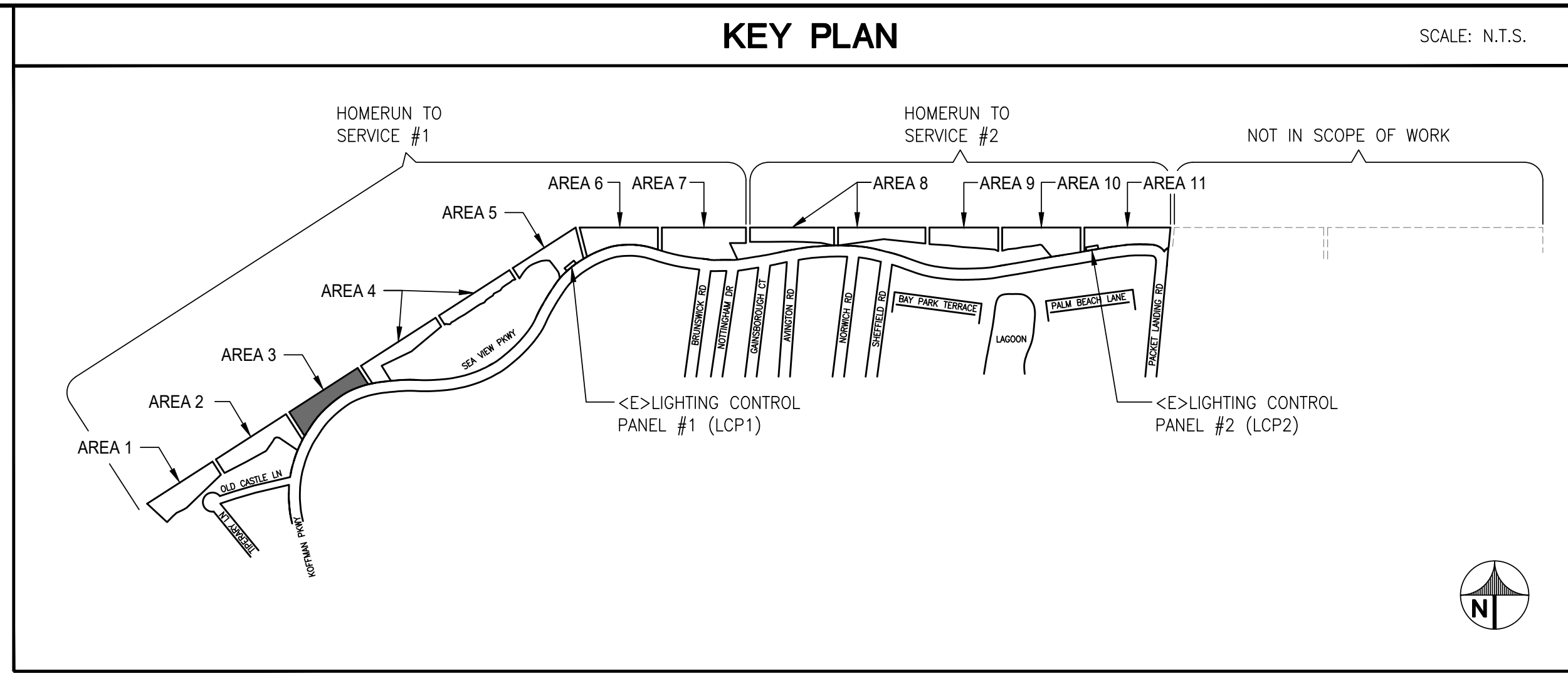
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 2 - NEW**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

C:\DRAWINGS\City Of Alameda\170430 Alameda Shoreline Park Lighting Design\170430E-1.2.dwg 9/18/2020 9:01 AM Rick Postus

THIS DRAWING IS 30" X 42" AT FULL SIZE, 15" X 21" AT HALF SIZE. © 2015 BY SALAS OBRIEN ENGINEERS, INC.



- GENERAL SHEET NOTES**
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
 - UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - ALL WIRES SHALL BE RATED THWN U.O.N.
 - NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- REFERENCE SHEET NOTES**
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - FURNISH AND INSTALL NEW SUB-PANEL. INTERCEPT AND EXTEND EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW PANEL LOCATION. REFER TO PANEL SCHEDULE.
 - FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- ADD ALTERNATE PRICING 1:**
- FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - INSTALL NEW UNDERGROUND PULLBOXES.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
- ADD ALTERNATE PRICING 2:**
- DEMOLISH EXISTING LIGHTING CONTROL CABINET AND INSTALL NEW 100A/2P, 480/277V, 1P, 3W NEMA 4X, METERED/LIGHTING CONTROL PEDESTAL. PROVIDE 5KVA STEP-DOWN TRANSFORMER, 480-240/120V, 1P, 3W. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
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ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

ISSUE

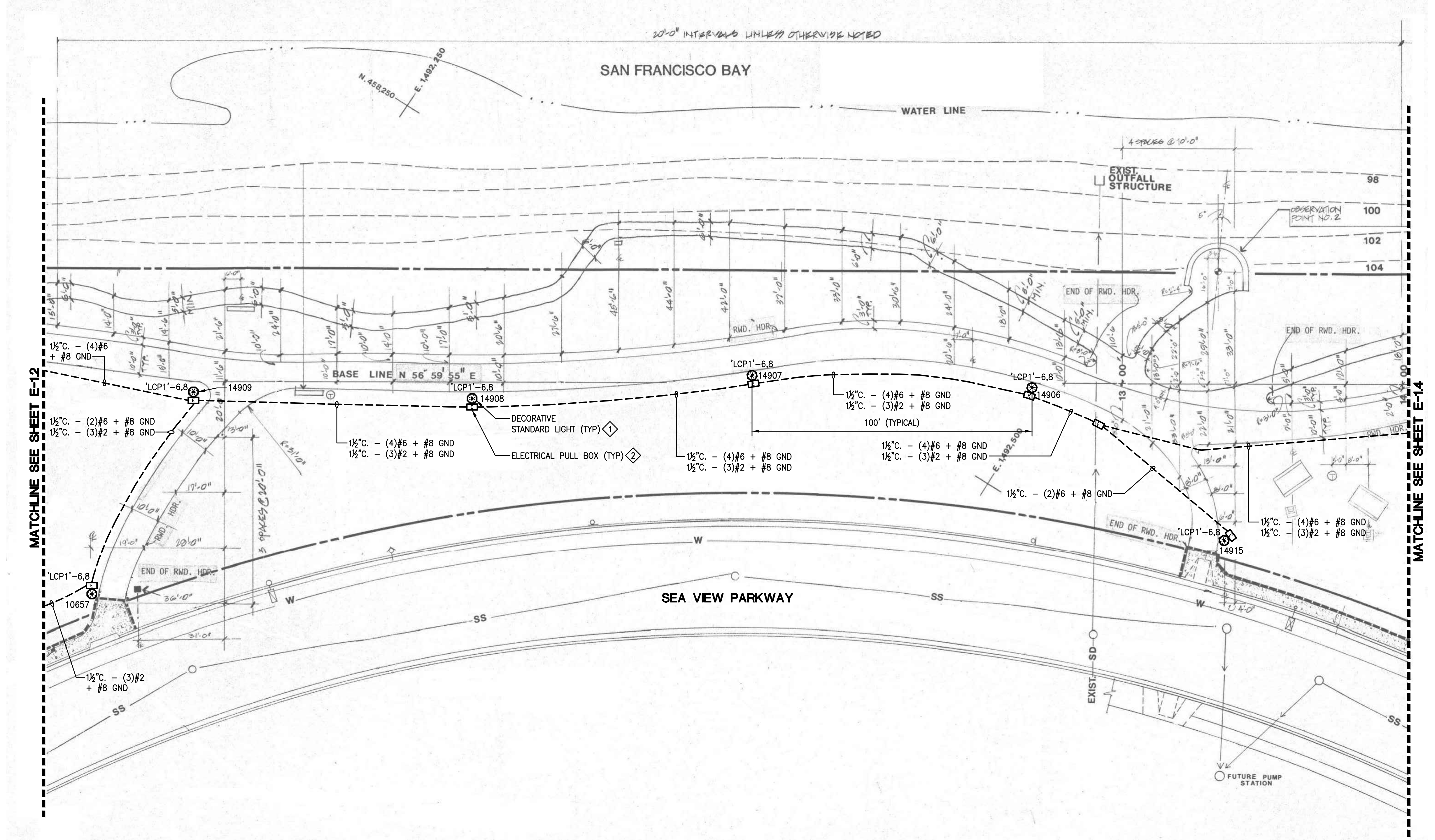
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	08/05/19	BULLETIN #1
	09/18/20	100% CD

SOBE PROJECT NO: 170430
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CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
ELECTRICAL PARTIAL SITE PLAN AREA 3 - NEW

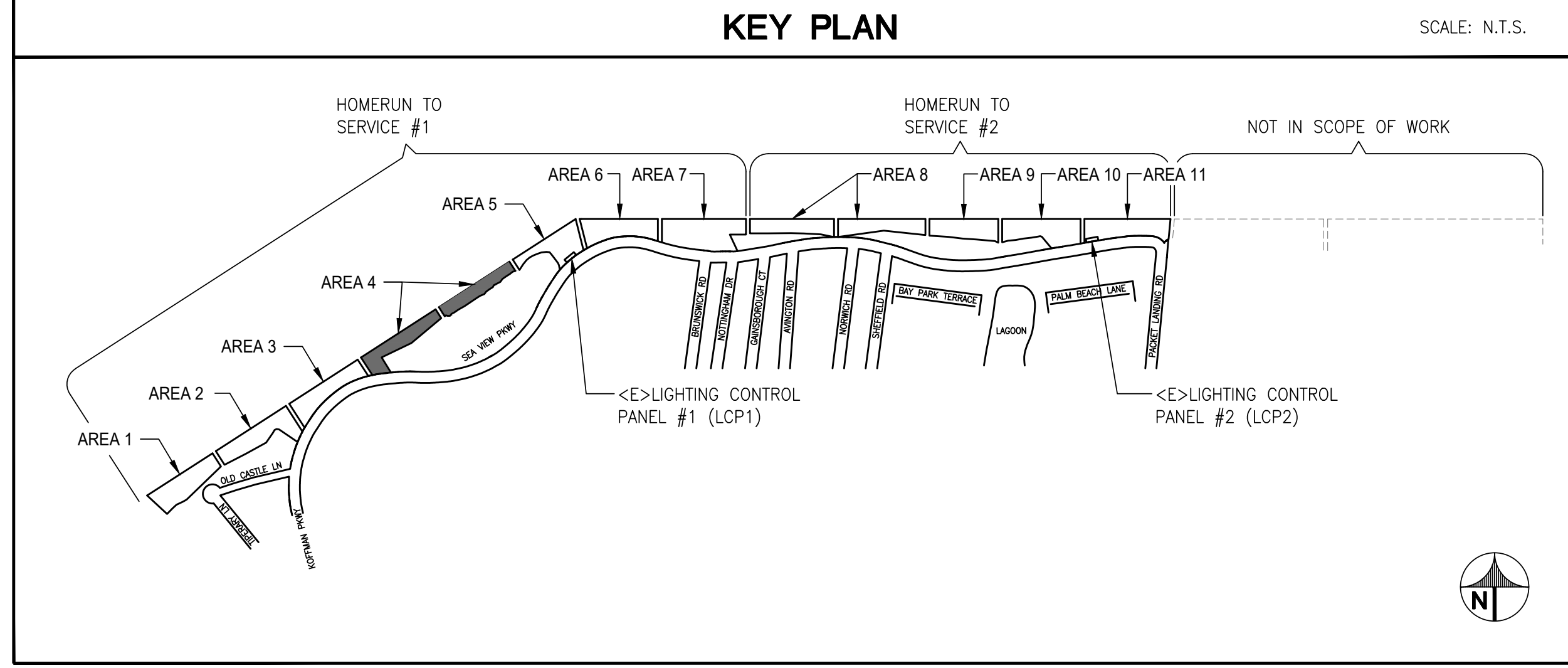
SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

E-13
SHEET OF XX



1 PARTIAL SITE PLAN AREA 3 - NEW SCALE: N.T.S.

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- ### GENERAL SHEET NOTES
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 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
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 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
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 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
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 - FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- ADD ALTERNATE PRICING 1:**
- FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - INSTALL NEW UNDERGROUND PULLBOXES.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

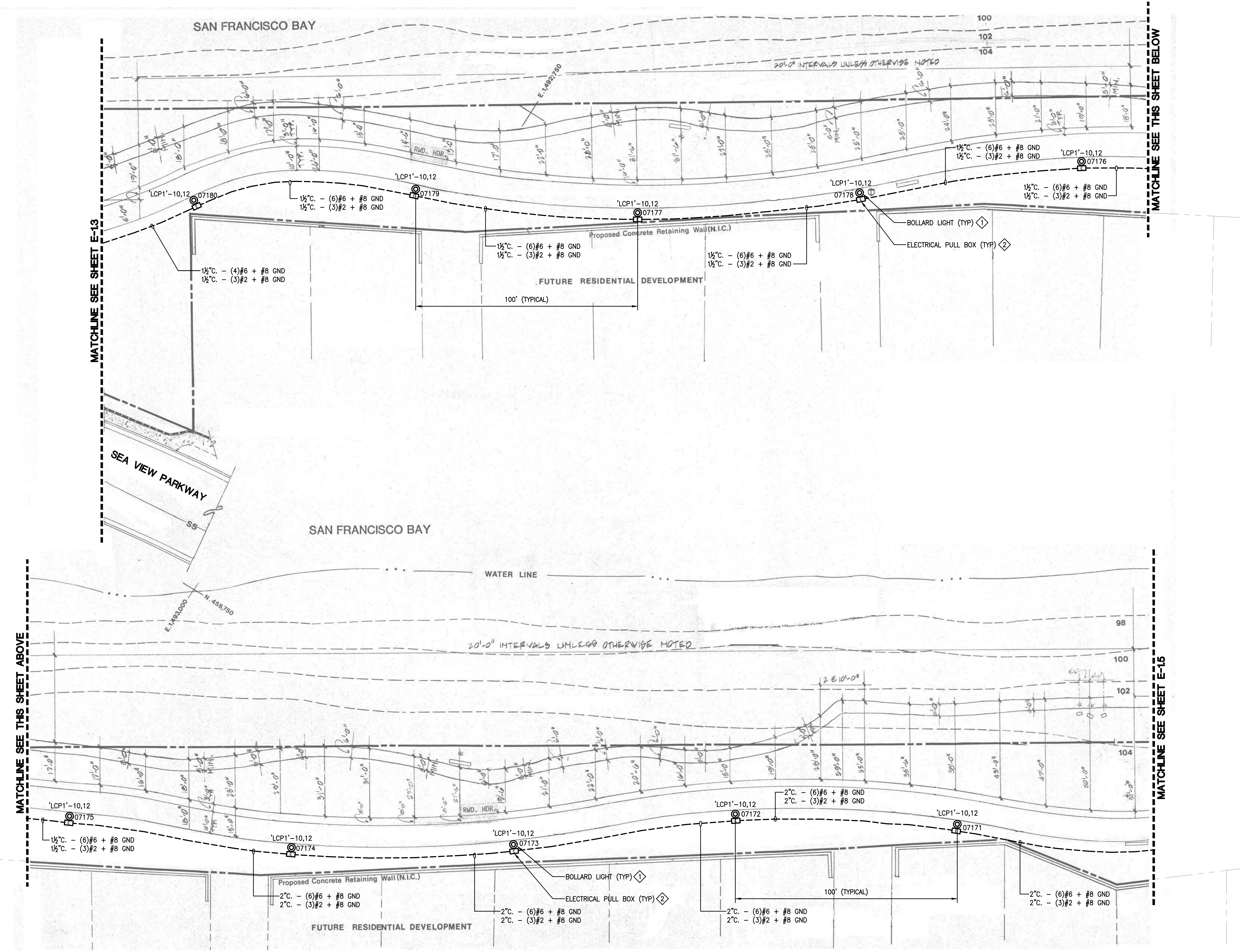
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	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 4 - NEW**

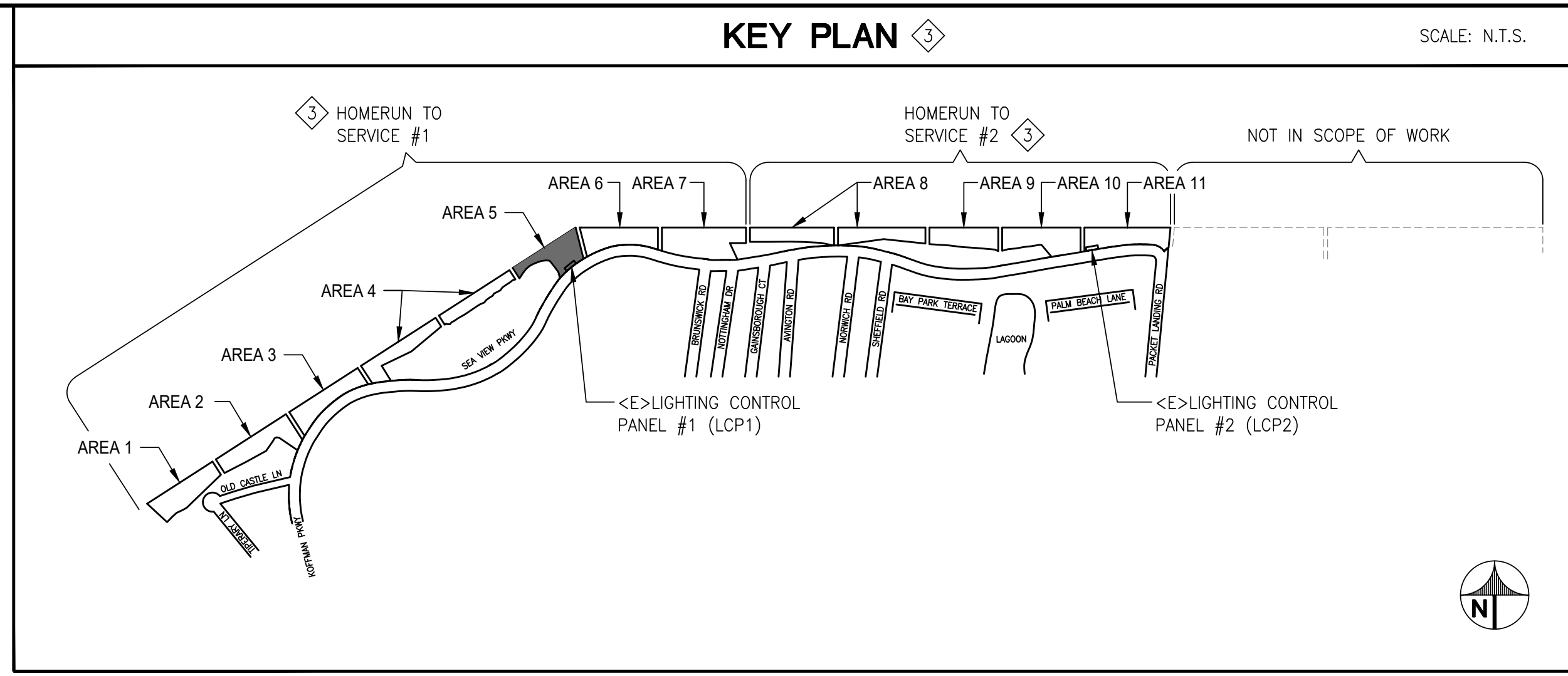
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E-14
SHEET OF XX



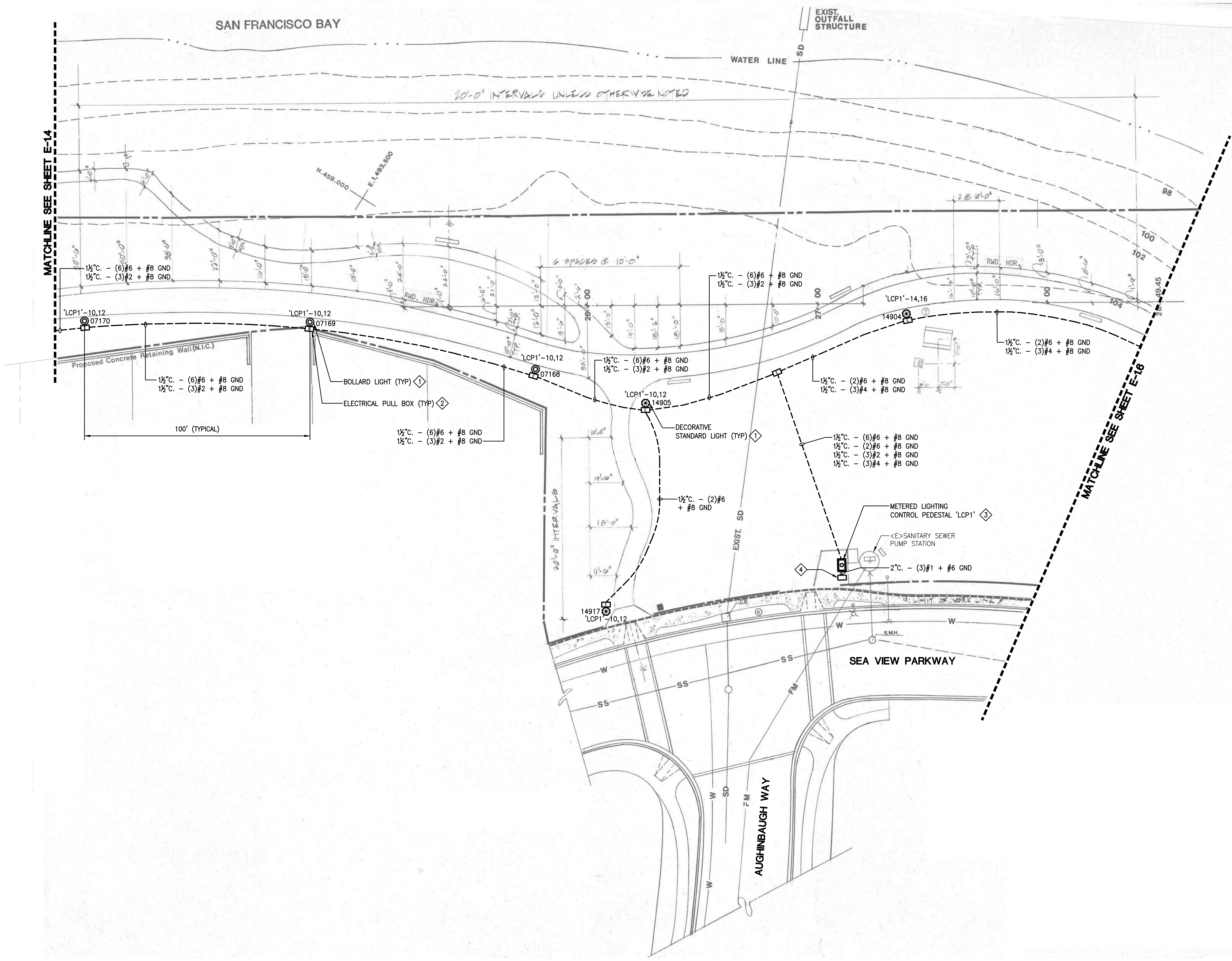
1 PARTIAL SITE PLAN AREA 4 - NEW
SCALE: N.T.S.

THIS DRAWING IS 30" X 42" AT FULL SIZE, 15" X 21" AT HALF SIZE. © 2015 BY SALAS OBRIEN ENGINEERS, INC.



- ### GENERAL SHEET NOTES
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
 - UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - ALL WIRES SHALL BE RATED THWN U.O.N.
 - NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - FURNISH AND INSTALL NEW SUB-PANEL. INTERCEPT AND EXTEND EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW PANEL LOCATION. REFER TO PANEL SCHEDULE.
 - FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- ADD ALTERNATE PRICING 1:**
- FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - INSTALL NEW UNDERGROUND PULLBOXES.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
- ADD ALTERNATE PRICING 2:**
- DEMOLISH EXISTING LIGHTING CONTROL CABINET AND INSTALL NEW 100A/2P, 480/277V, 1P, 3W NEMA 4X, METERED/LIGHTING CONTROL PEDESTAL. PROVIDE 5KVA STEP-DOWN TRANSFORMER, 480-240/120V, 1P, 3W. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - FURNISH AND INSTALL NEW GATE ENCLOSURE AROUND EXISTING SERVICE PANEL AND LIGHTING CONTROL PANEL. REFER TO DETAILS 6,7,8,9/E-5.2 AND 2/E-5.3.



1 PARTIAL SITE PLAN AREA 5 - NEW
SCALE: N.T.S.

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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
	10/05/17	BID/PERMIT SUBMITTAL
	11/15/17	PERMIT RESUBMITTAL
	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 5 - NEW**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

C:\DRAWINGS\City Of Alameda\170430 Alameda Shoreline Park Lighting Design\170430E-1.5.dwg 9/18/2020 9:01 AM Rick Postus

THIS DRAWING IS 30" X 42" AT FULL SIZE. 15" X 21" AT HALF SIZE. © 2015 BY SALAS OBRIEN ENGINEERS, INC. 1/2" = 1'-0"

1/4" = 1'-0"

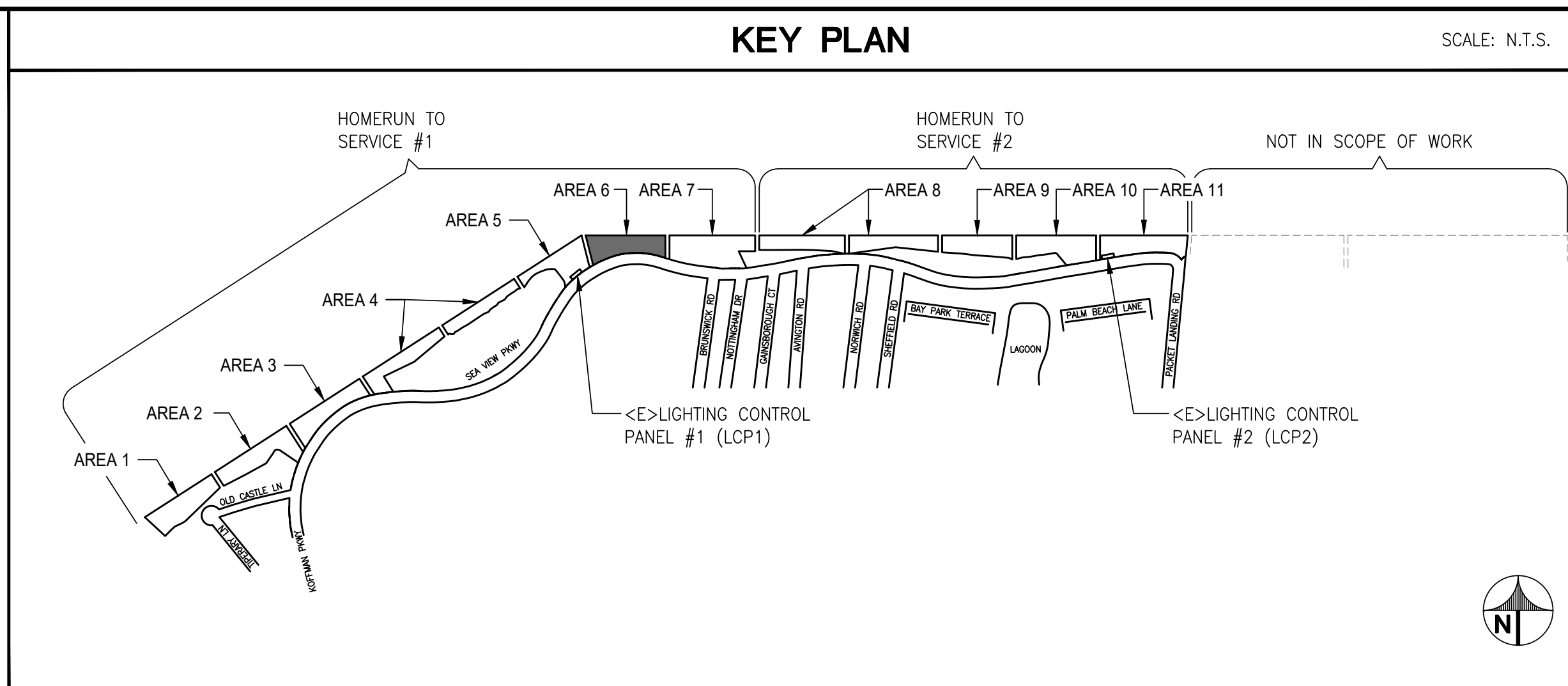
1/8" = 1'-0"

1" = 10'-0"

1" = 30'-0"

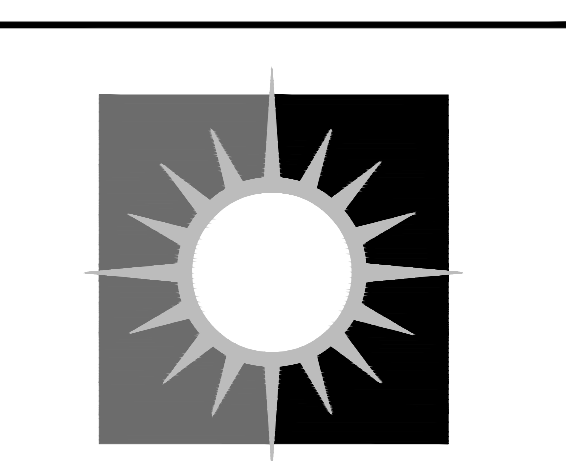
1" = 80'-0"

1" = 100'-0"

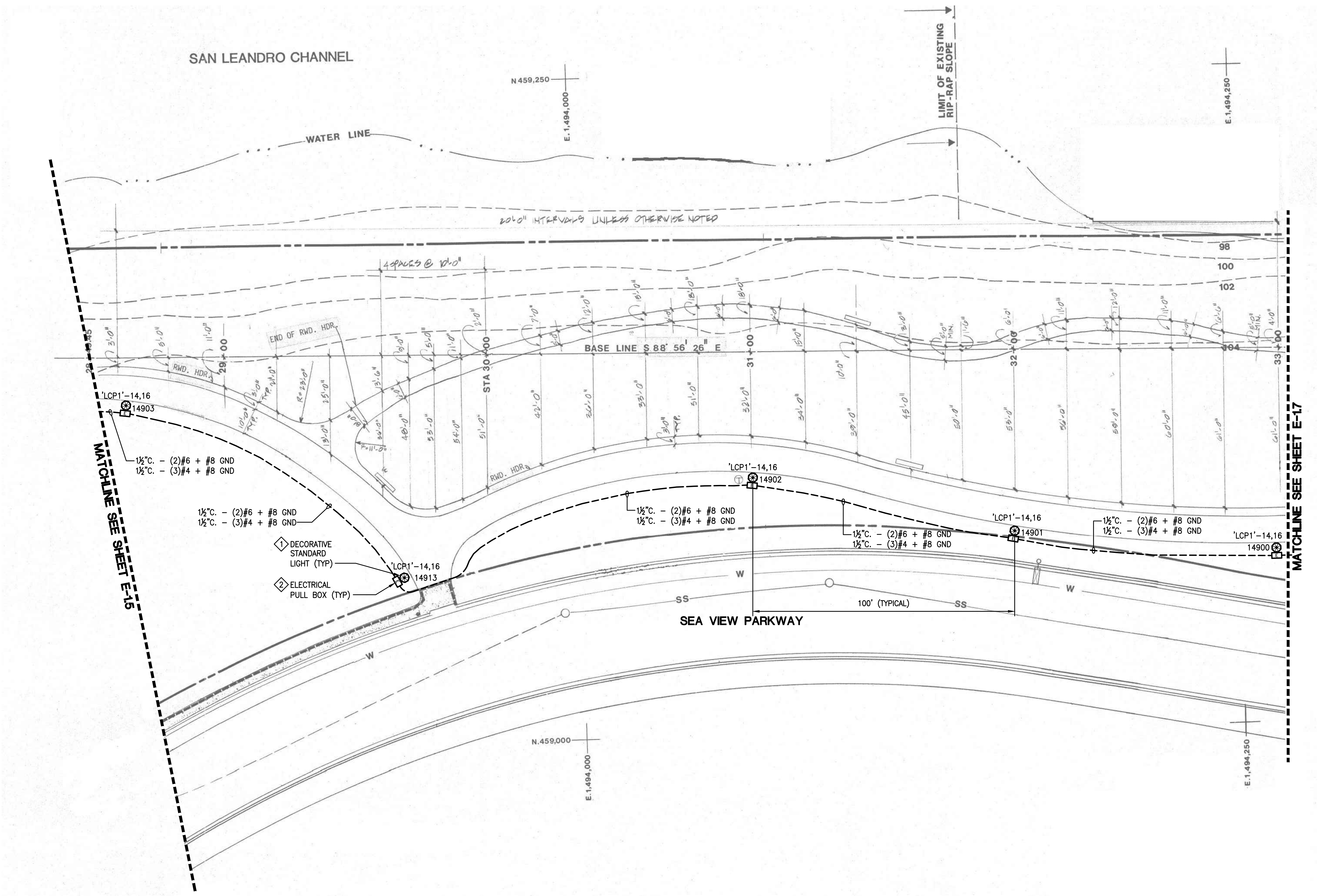


- ### GENERAL SHEET NOTES
- A. CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - B. OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - C. NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - D. EXISTING PHOTOCELLS SHALL BE REMOVED.
 - E. UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - F. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - G. CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - H. ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - I. ALL WIRES SHALL BE RATED THWN U.O.N.
 - J. NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - K. LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - L. ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - M. ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
- 1. FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - 2. FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - 3. FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - 4. INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - 5. FURNISH AND INSTALL NEW SUB-PANEL. INTERCEPT AND EXTEND EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW PANEL LOCATION. REFER TO PANEL SCHEDULE.
 - 6. FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
- ADD ALTERNATE PRICING 1:**
- 1. FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - 2. INSTALL NEW UNDERGROUND PULLBOXES.
 - 3. LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
- ADD ALTERNATE PRICING 2:**
- 1. DEMOLISH EXISTING LIGHTING CONTROL CABINET AND INSTALL NEW 100A/2P, 480/277V, 1P, 3W NEMA 4X, METERED/LIGHTING CONTROL PEDESTAL. PROVIDE 5KVA STEP-DOWN TRANSFORMER, 480-240/120V, 1P, 3W. REFER TO DETAIL AND PANEL SCHEDULE.
 - 2. INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - 3. FURNISH AND INSTALL NEW GATE ENCLOSURE AROUND EXISTING SERVICE PANEL AND LIGHTING CONTROL PANEL. REFER TO DETAILS 6,7,8,9/E-5.2 AND 2/E-5.3.



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1 PARTIAL SITE PLAN AREA 6 - NEW
SCALE: N.T.S.



CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
	10/05/17	BID/PERMIT SUBMITTAL
	11/15/17	PERMIT RESUBMITTAL
	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

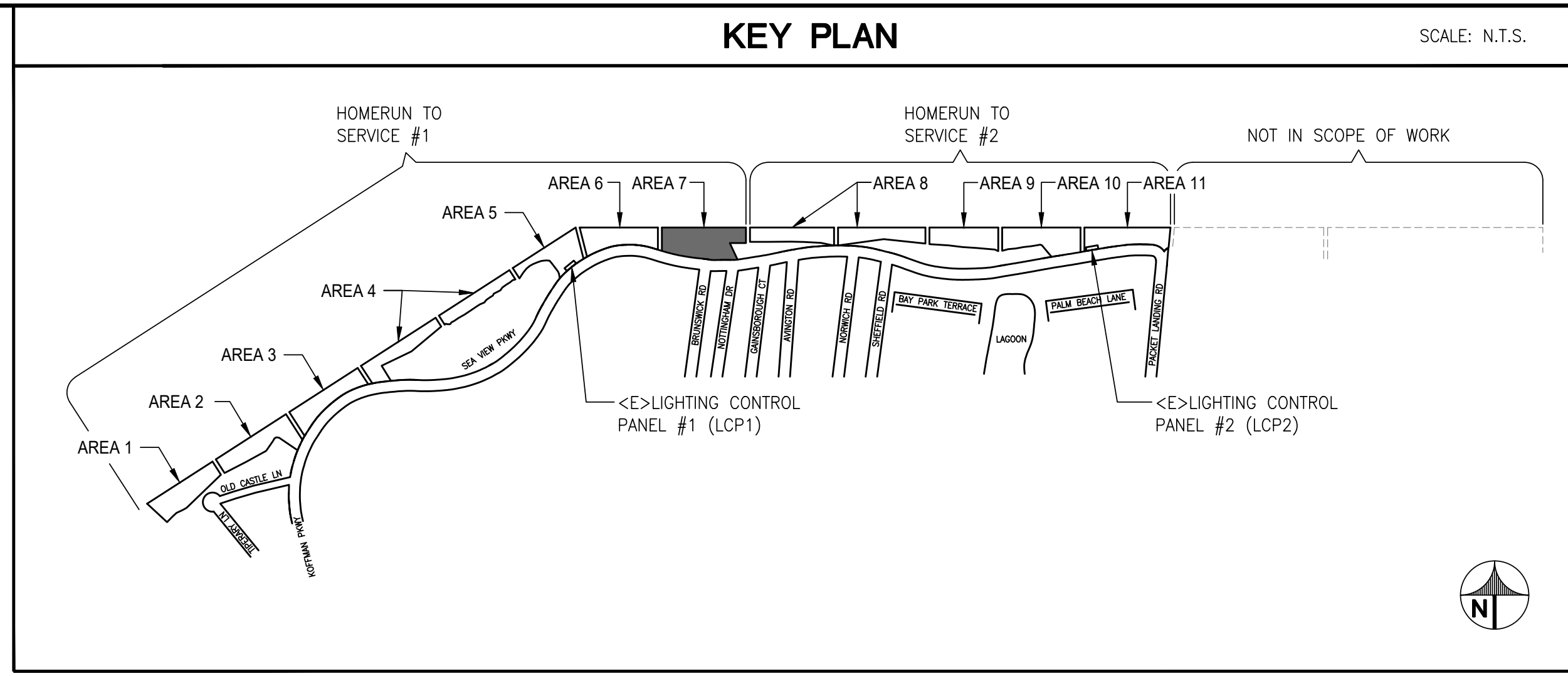
SOBE PROJECT NO:	170430
DATE:	09/18/20
DRAWN BY:	RP
CHECKED BY:	TJ
APPROVED BY:	JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 6 - NEW**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

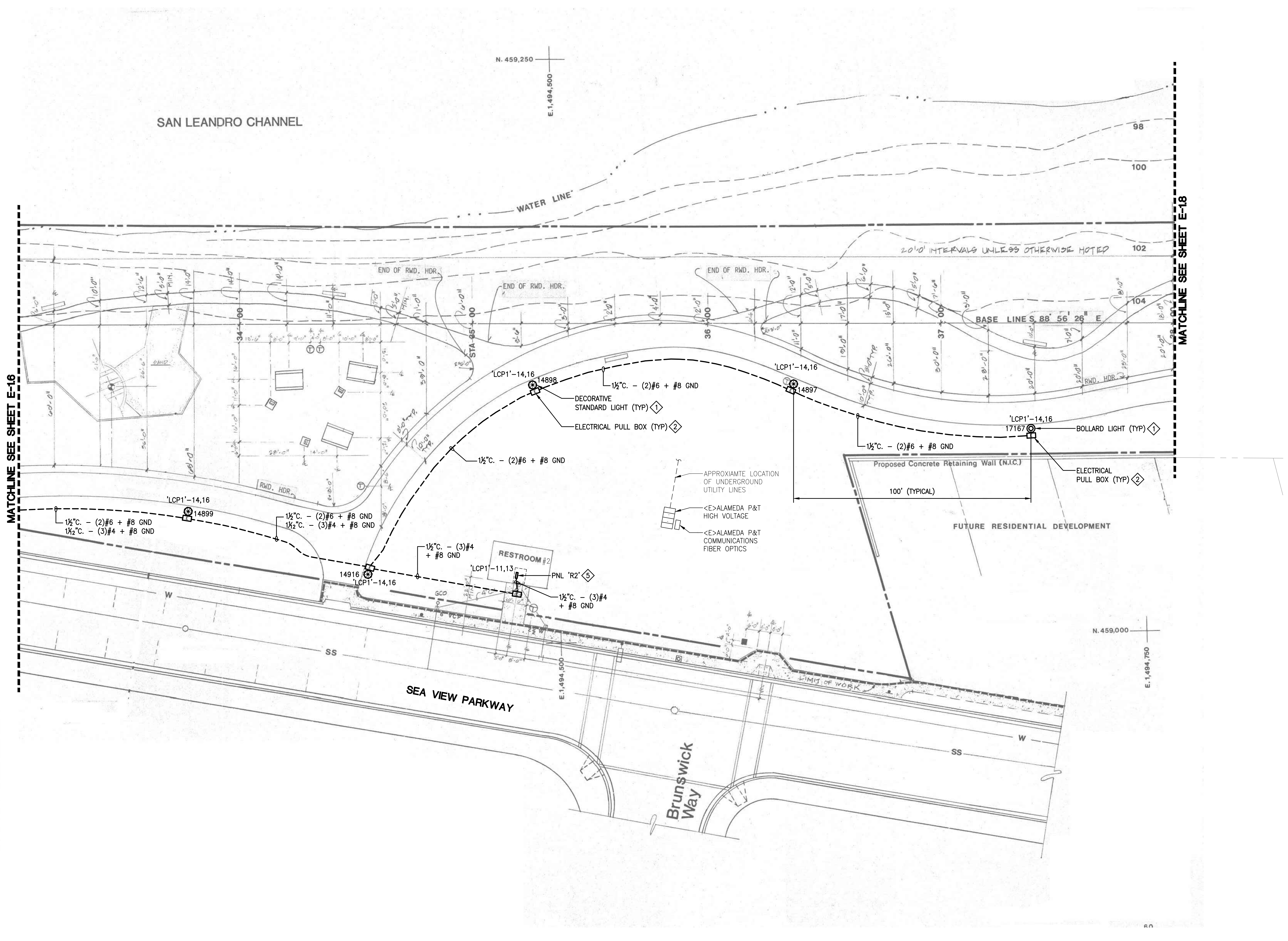
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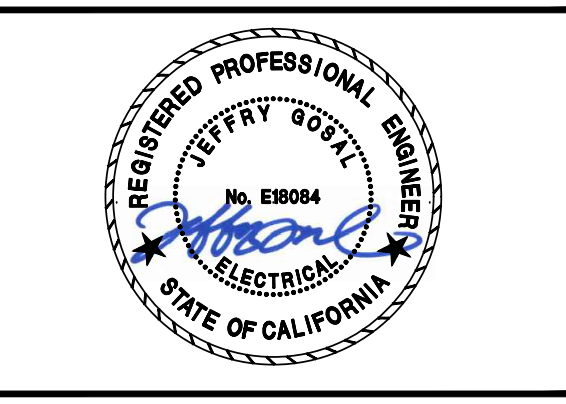
- GENERAL SHEET NOTES**
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
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 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - ALL WIRES SHALL BE RATED THWN U.O.N.
 - NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- REFERENCE SHEET NOTES**
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
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 - ADD ALTERNATE PRICING 1:
 - FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
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 - ADD ALTERNATE PRICING 2:
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 - FURNISH AND INSTALL NEW GATE ENCLOSURE AROUND EXISTING SERVICE PANEL AND LIGHTING CONTROL PANEL. REFER TO DETAILS 6,7,8,9/E-5.2 AND 2/E-5.3.



1 PARTIAL SITE PLAN AREA 7 - NEW
SCALE: N.T.S.

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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

ISSUE

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
	10/05/17	BID/PERMIT SUBMITTAL
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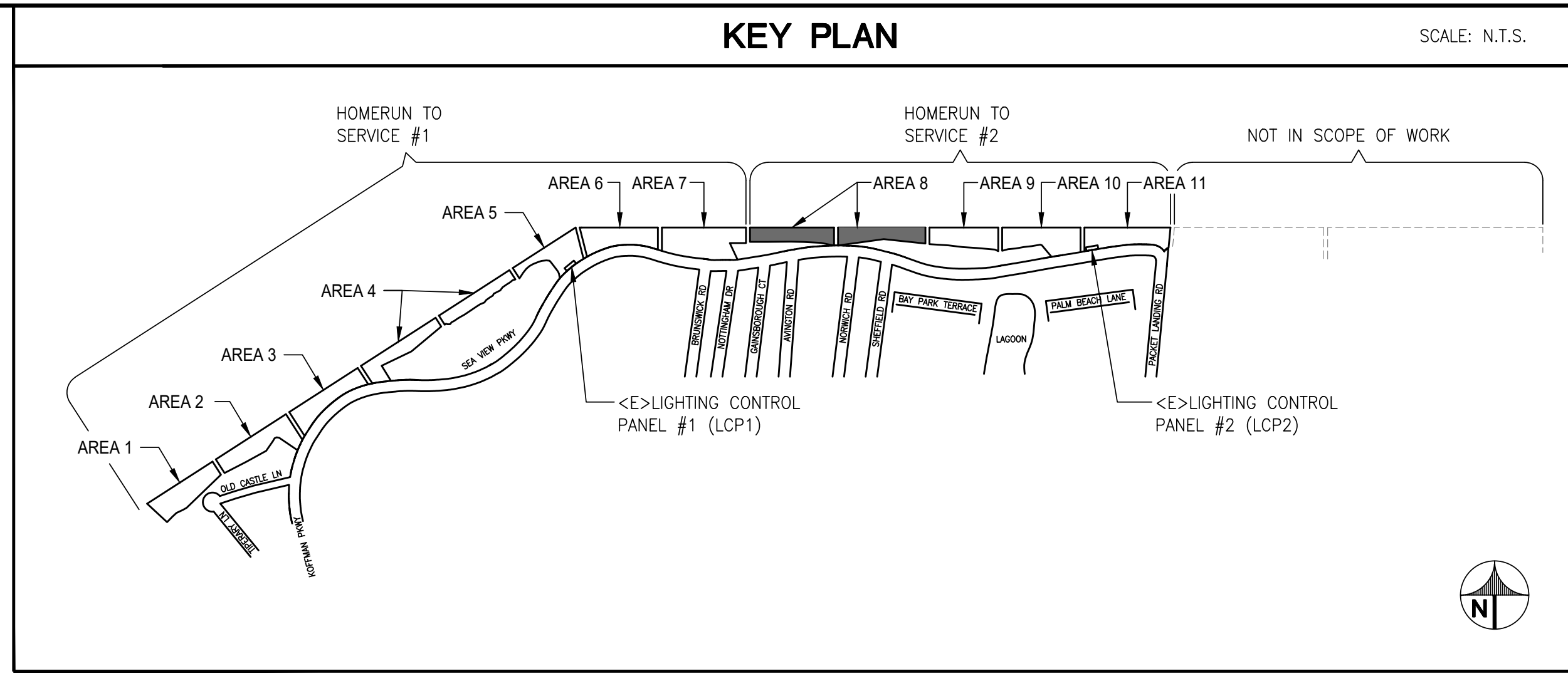
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
ELECTRICAL PARTIAL SITE PLAN AREA 7 - NEW

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

E-17
SHEET OF XX

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REGISTERED PROFESSIONAL ENGINEER
JEFFREY SCOTT
No. EB004
ELECTRICAL
STATE OF CALIFORNIA

CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

ISSUE

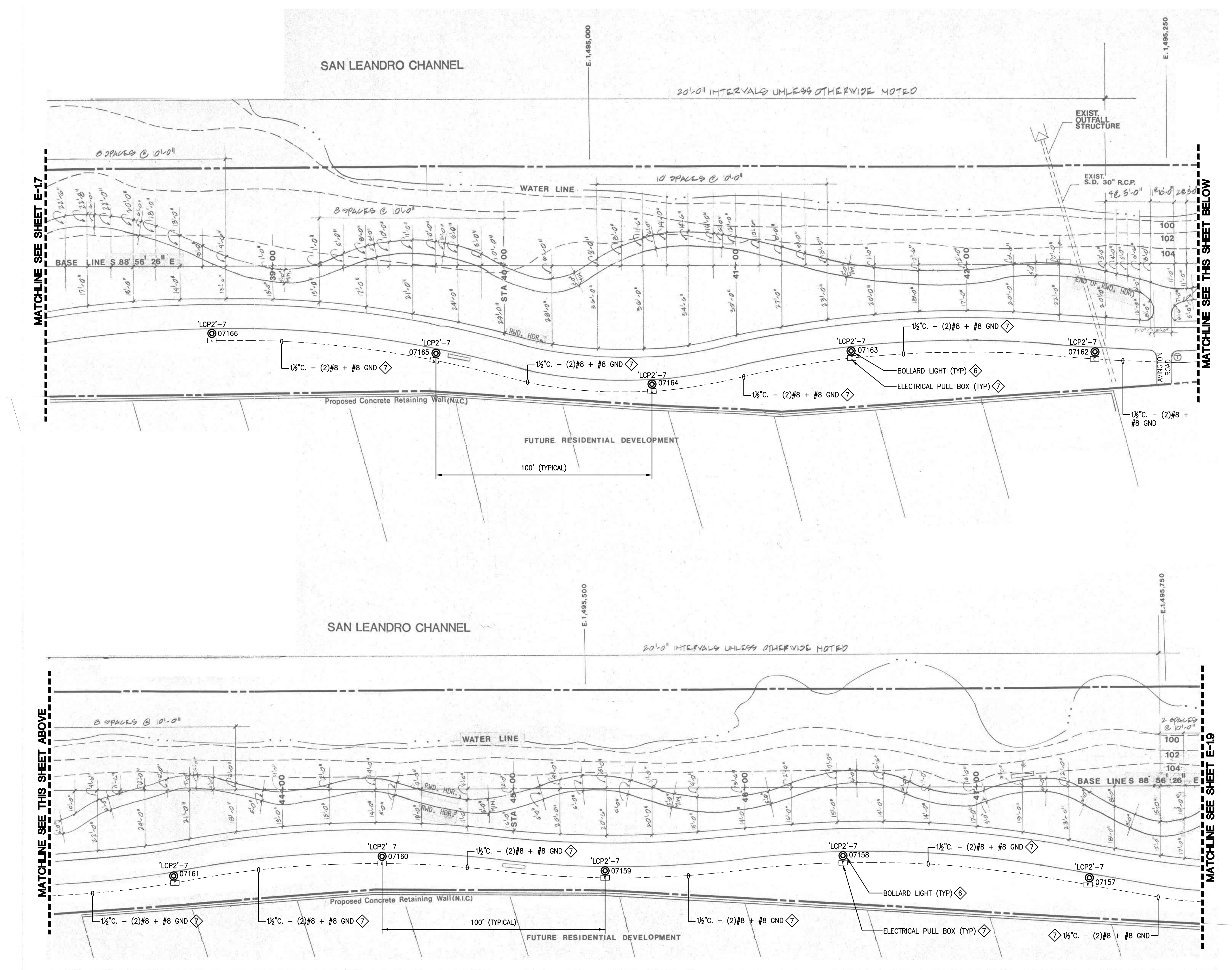
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SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
ELECTRICAL PARTIAL SITE PLAN AREA 8 - NEW

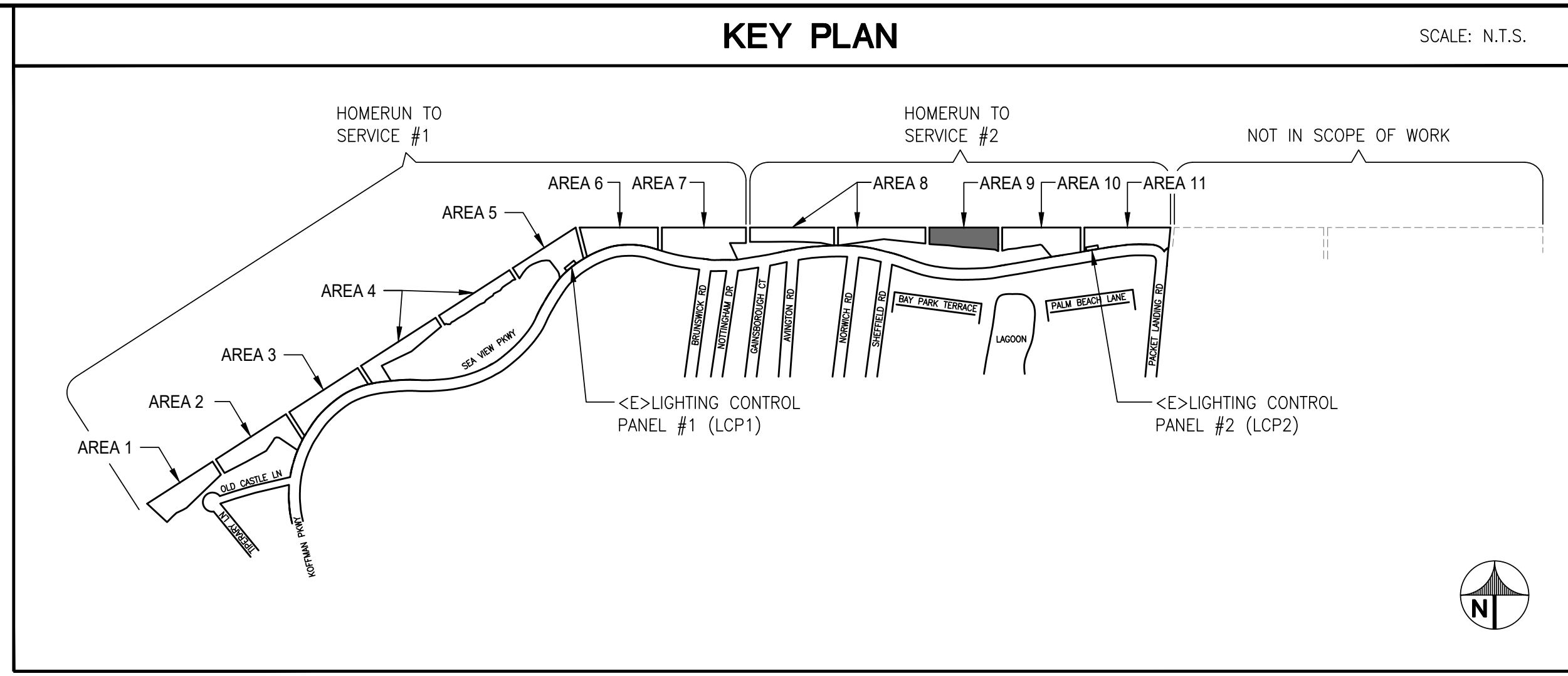
SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

E-18
SHEET OF XX



1 PARTIAL SITE PLAN AREA 8 - NEW
SCALE: N.T.S.

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 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
 - ALL WIRES SHALL BE RATED THWN U.O.N.
 - NEW CONDUITS SHALL CROSS EXISTING PATHS AT CLOSE TO PERPENDICULAR AS POSSIBLE.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ABANDON CONCRETE LIGHT POLE BASE/FOUNDATION SHALL BE CUT 2FT. MIN. FROM FINISH GRADE. BACKFILL AND RESTORE TO MATCH ADJACENT SURFACE CONDITION.
 - ABANDON CONDUIT SHALL BE CUT, CAP AND SECURE 12" BELOW GRADE.

- ### REFERENCE SHEET NOTES
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
 - FURNISH AND INSTALL 125A/2P, 120/208V, 1P, 3W NEMA 4X, METERED LIGHTING CONTROL PEDESTAL. REFER TO DETAIL AND PANEL SCHEDULE.
 - INTERCEPT AND EXTEND PRIMARY CONDUIT INTO UNDERGROUND PULLBOX. EXTEND CONDUIT FROM PULLBOX TO NEW METERED PEDESTAL. COORDINATE POWER UTILITY FOR RECONNECTION.
 - FURNISH AND INSTALL NEW SUB-PANEL. INTERCEPT AND EXTEND EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW PANEL LOCATION. REFER TO PANEL SCHEDULE.
 - FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. INTERCEPT AND EXTEND EXISTING CONDUITS TO NEW POLE BASE LOCATION. ROUTE NEW WIRES FROM EXISTING PULLBOX TO NEW FIXTURE LOCATION. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - ADD ALTERNATE PRICING 1:
 - FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW LIGHTING FIXTURES FROM NEW METERED/CONTROL PANEL.
 - INSTALL NEW UNDERGROUND PULLBOXES.
 - LOCATE ALL UNDERGROUND UTILITIES IN AREAS OF WORK. NOTE THERE ARE HIGH VOLTAGE IN PARALLEL OF EXISTING LIGHTING CIRCUIT. ALL NEW CONDUIT SHALL BE INSTALLED IN NEW TRENCH. REFER TO DETAILS SHEET FOR TRENCH REQUIREMENTS.
 - ADD ALTERNATE PRICING 2:
 - DEMOLISH EXISTING LIGHTING CONTROL CABINET AND INSTALL NEW 100A/2P, 480/277V, 1P, 3W NEMA 4X, METERED/LIGHTING CONTROL PEDESTAL. PROVIDE 5KVA STEP-DOWN TRANSFORMER, 480-240/120V, 1P, 3W. REFER TO DETAIL AND PANEL SCHEDULE.
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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN

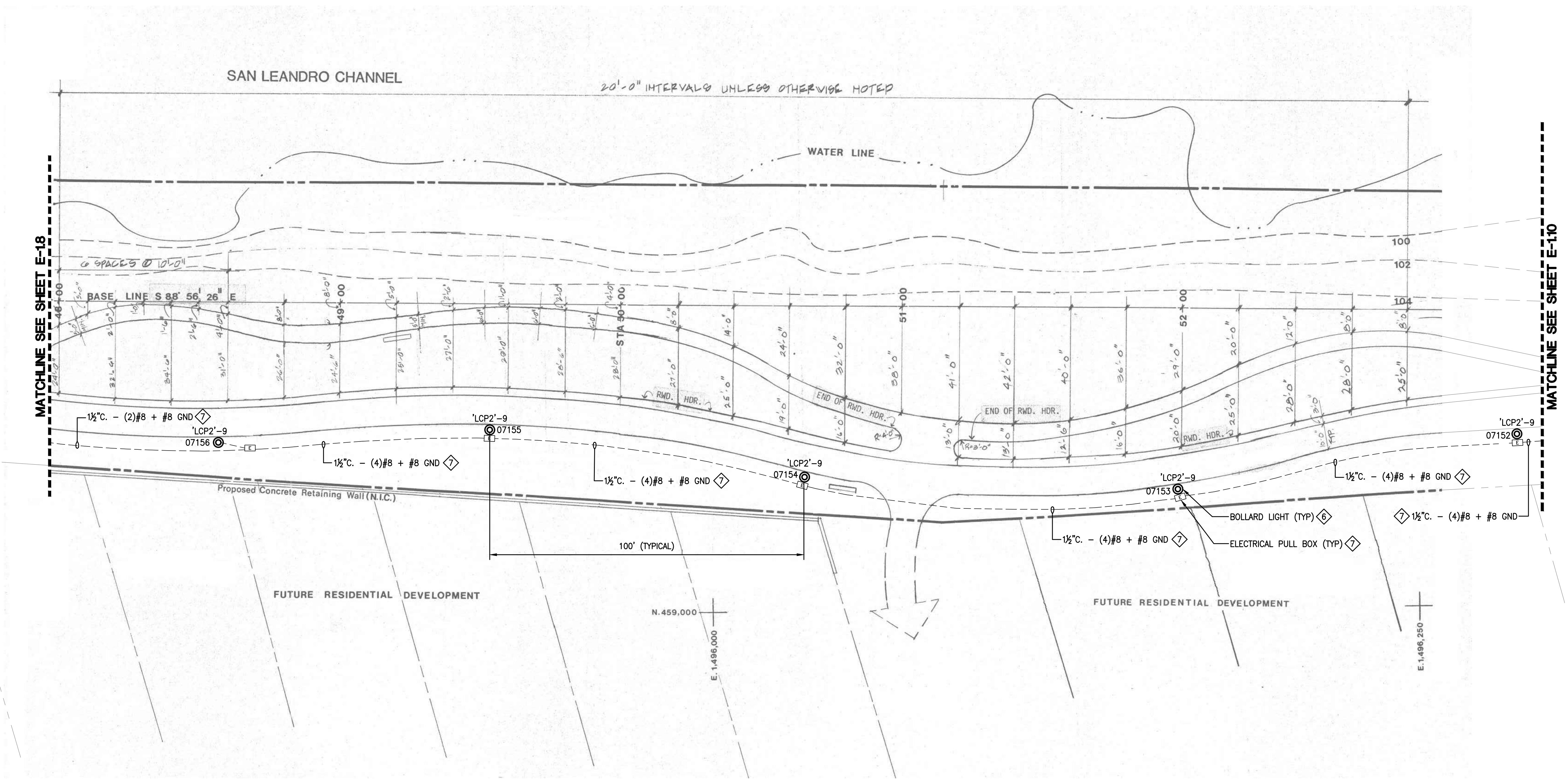
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	10/05/17	BID/PERMIT SUBMITTAL
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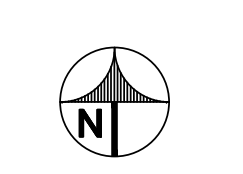
SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 9 - NEW**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

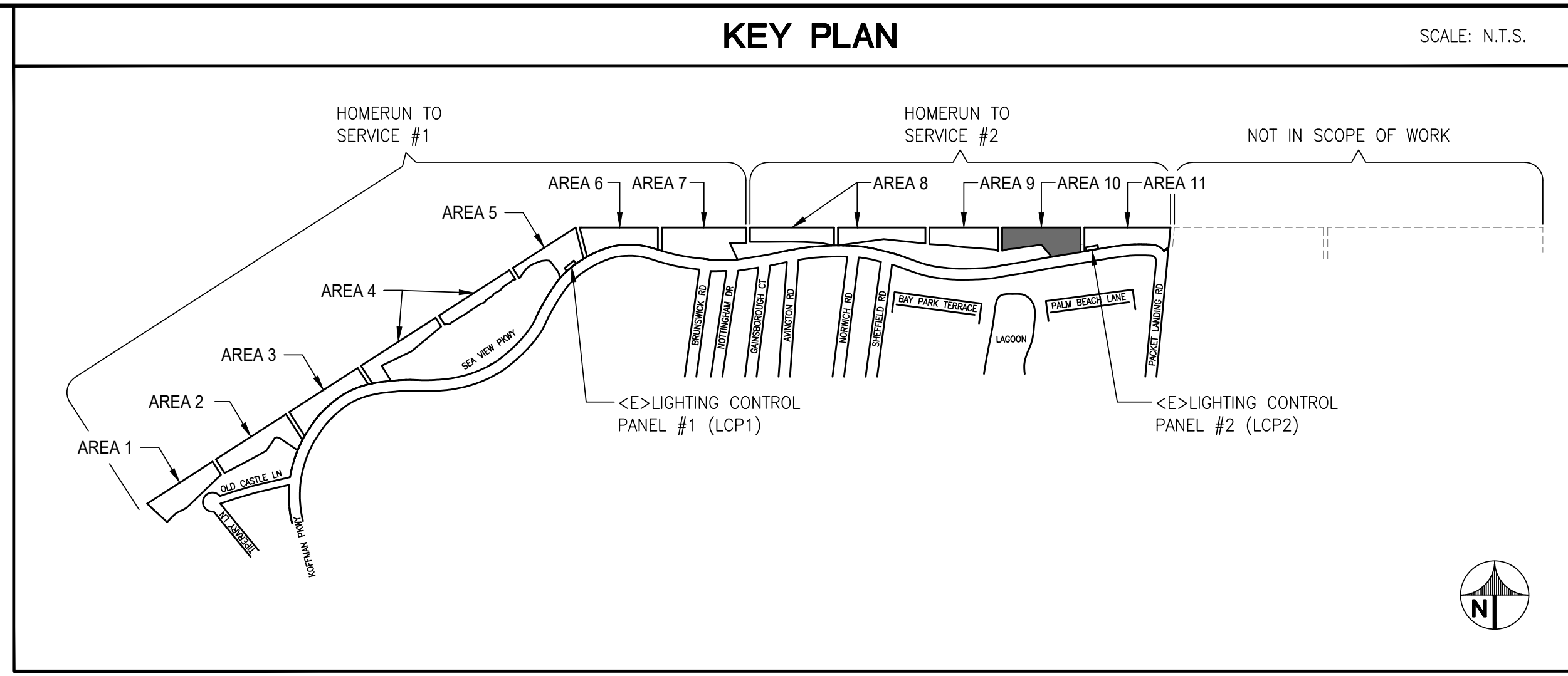
E-19
SHEET OF XX



1 PARTIAL SITE PLAN AREA 9 - NEW
SCALE: N.T.S.

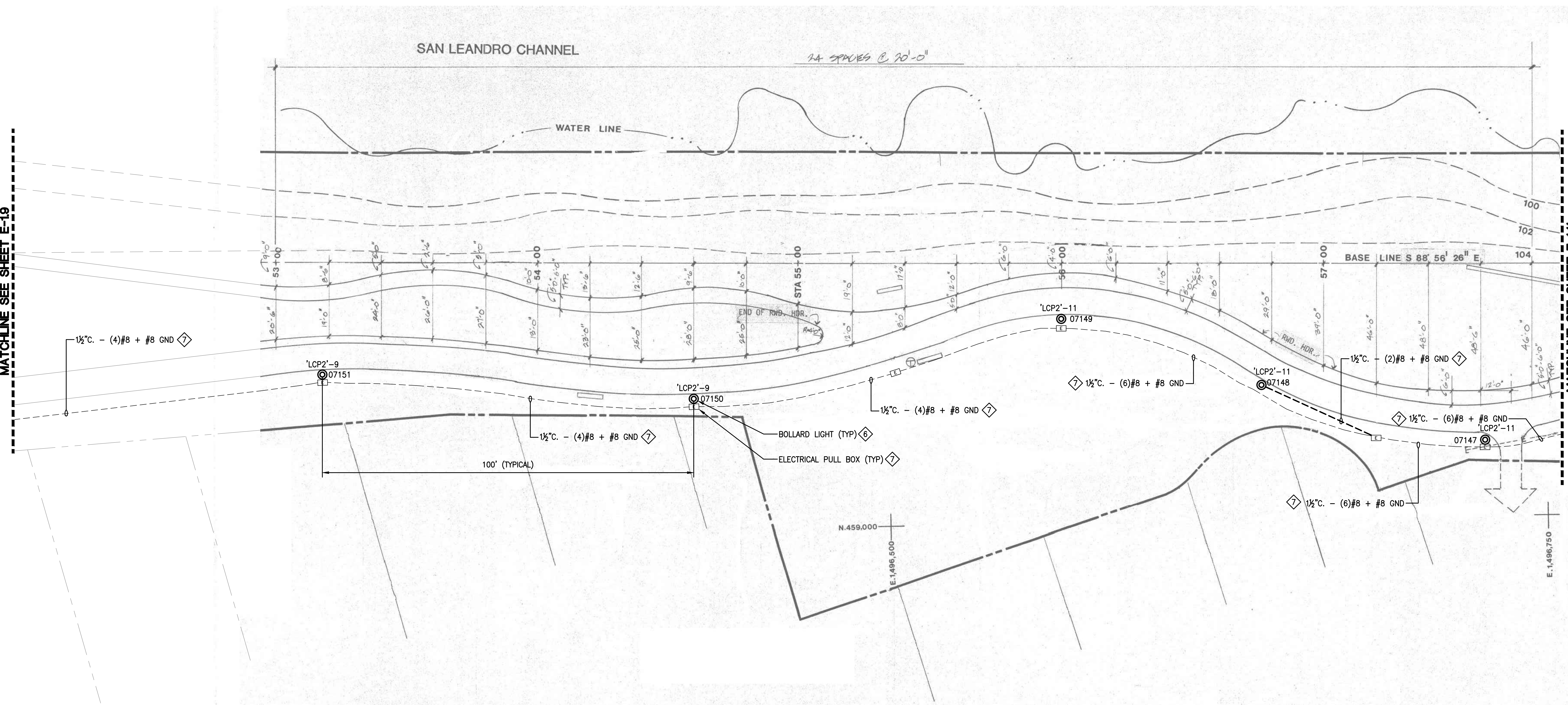


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- ### GENERAL SHEET NOTES
- CONTRACTOR TO LOCATE EXISTING LIGHTING TIME CLOCKS. DEVICES CONTROLLING THE OUTDOOR LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW. ENSURE EXISTING INTERIOR LIGHTING CONTROLS ARE PROTECTED IN PLACE.
 - OUTDOOR LIGHTING CONTROLS SHALL BE TRANSFERRED TO AND CONTROLLED BY LIGHTING CONTROL PANELS.
 - NEW LIGHTING CONTACTOR ENCLOSURES SHALL BE LOCATED WITHIN 10 FEET OF EXISTING POWER PANEL, UON.
 - EXISTING PHOTOCELLS SHALL BE REMOVED.
 - UNDERGROUND PULLBOXES SHALL BE 10"x17" U.O.N.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OTHER UTILITIES.
 - CONTRACTOR SHALL REPAIR ALL SURFACES TO MATCH ADJACENT SURFACES CAUSED FROM DEMOLITION WORK. THIS INCLUDES ASPHALT AND LANDSCAPE.
 - ROUTE 2" C. WITH (2)#2 + #6 GND MINIMUM TO EACH LIGHT FIXTURE. DUE TO THE LENGTH OF RUNS FOR EACH CIRCUIT AND DERATING FACTORS RESULTED IN THE INCREASED WIRE SIZES.
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- ### REFERENCE SHEET NOTES
- FURNISH AND INSTALL NEW LIGHT FIXTURE, POST AND CONCRETE BASE. REFER TO ELECTRICAL DETAIL AND LIGHTING FIXTURE SCHEDULE.
 - FURNISH AND INSTALL NEW UNDERGROUND PULLBOX. REFER TO ELECTRICAL DETAIL.
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- ADD ALTERNATE PRICING 1:
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1 PARTIAL SITE PLAN AREA 10 - NEW
SCALE: N.T.S.



CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
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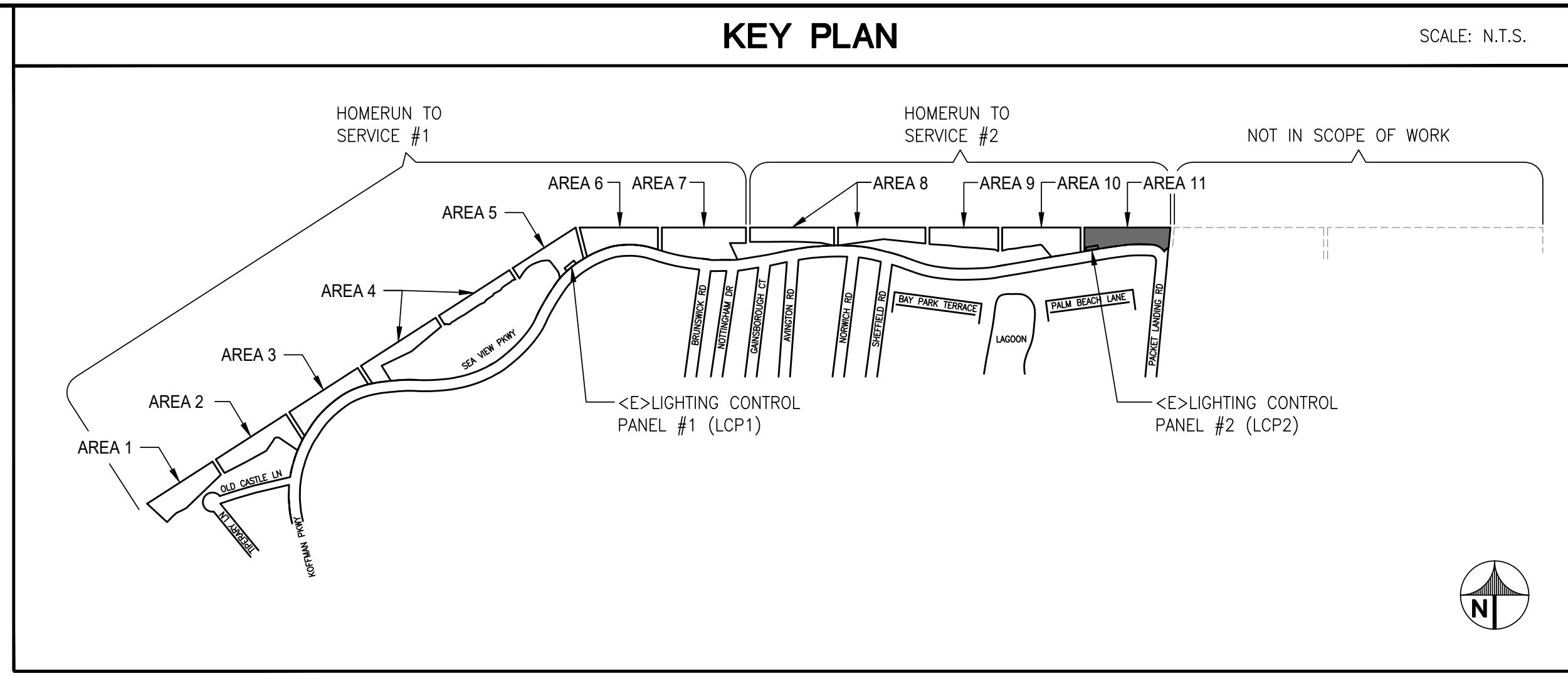
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 10 - NEW**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

E-110
SHEET OF XX

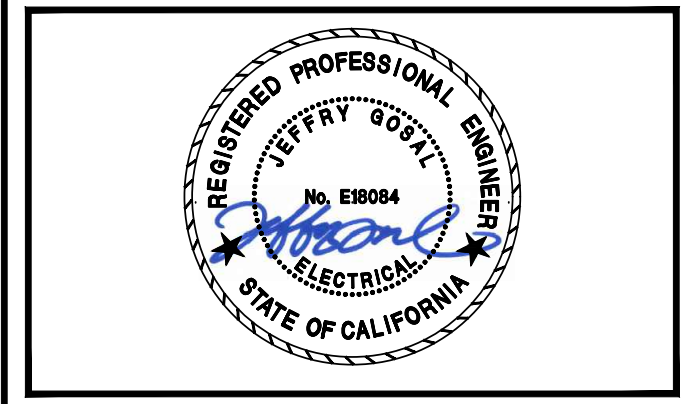
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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

ISSUE

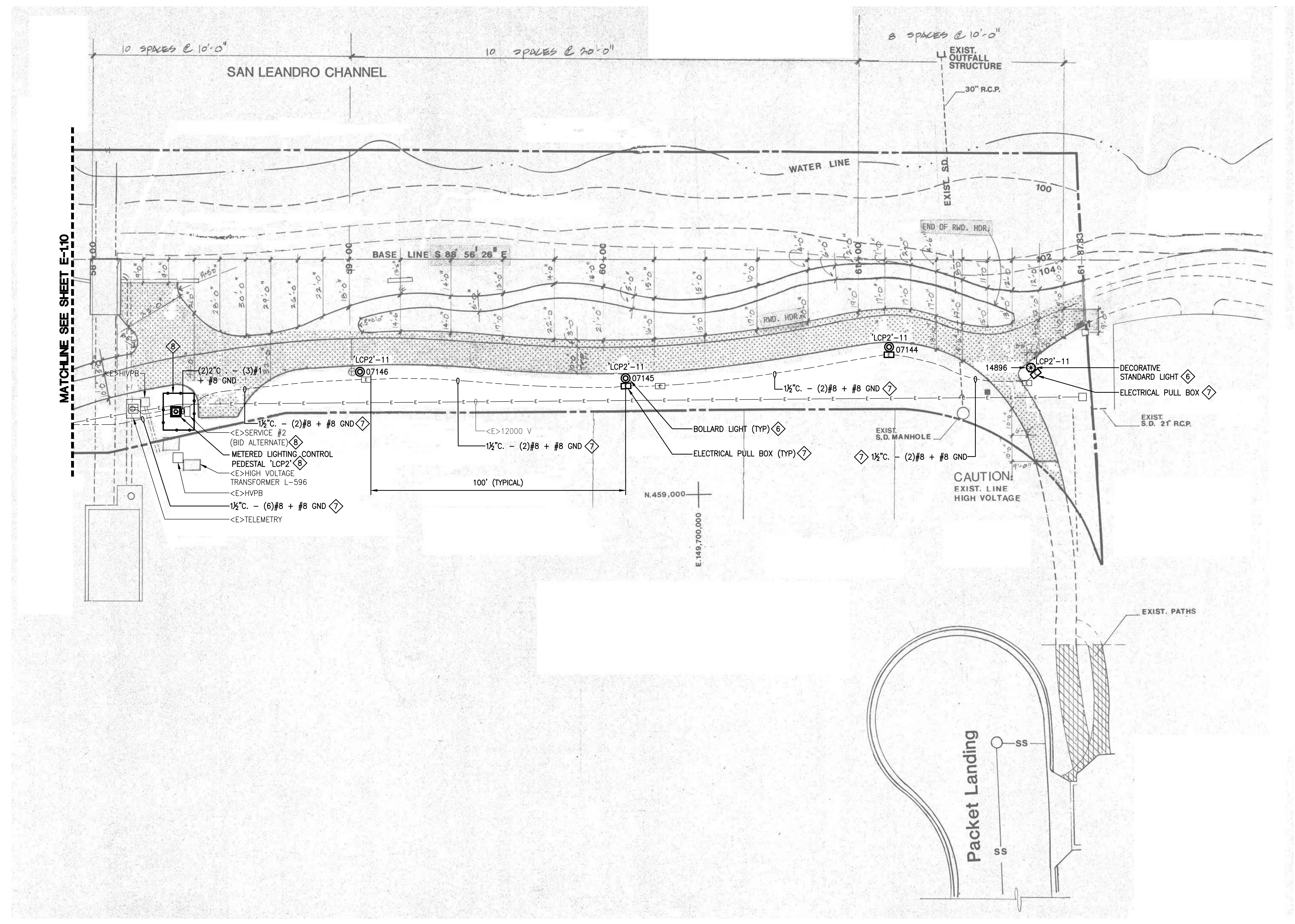
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SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
**ELECTRICAL
PARTIAL SITE PLAN
AREA 11 - NEW**

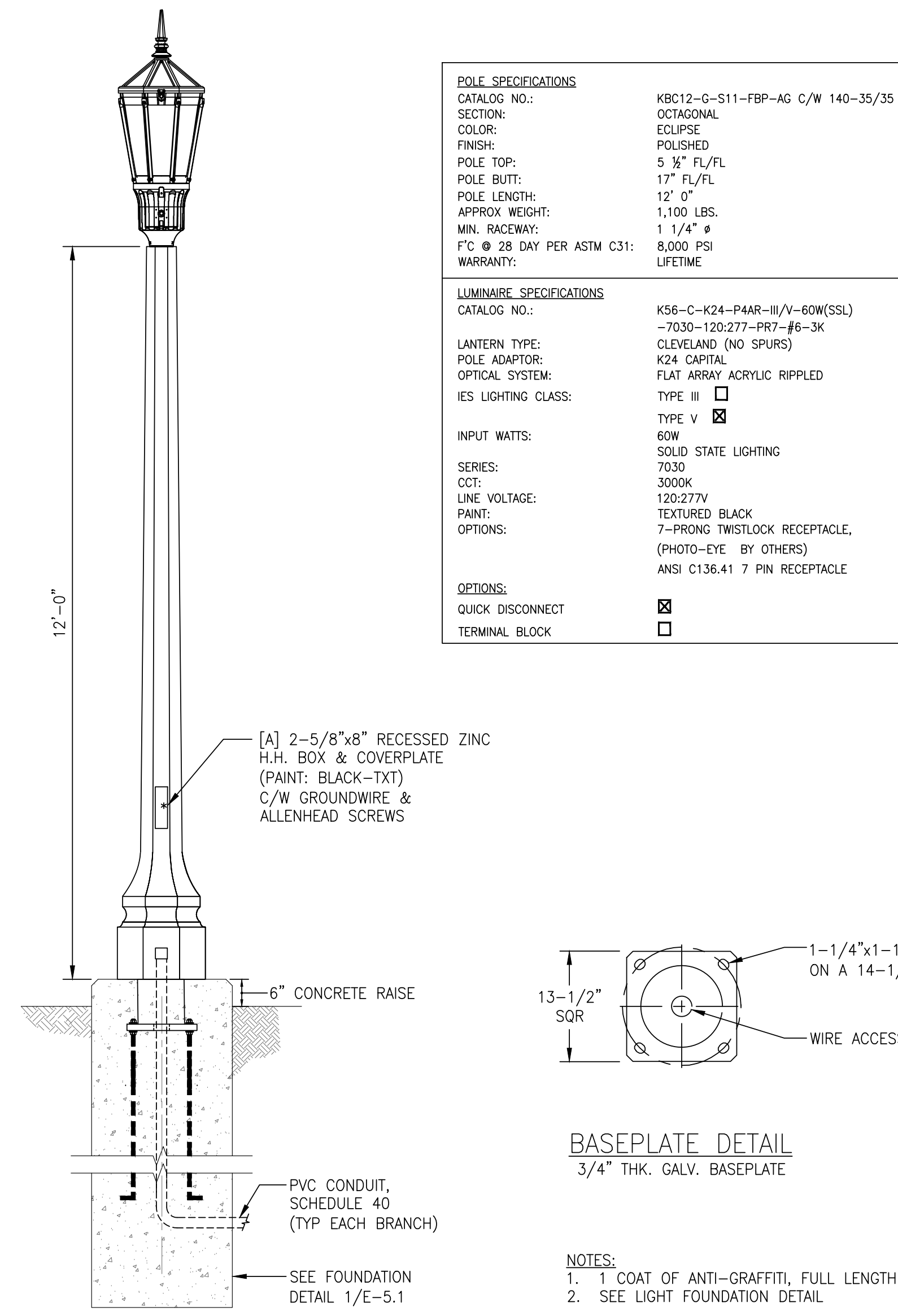
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E-1.11
SHEET OF XX

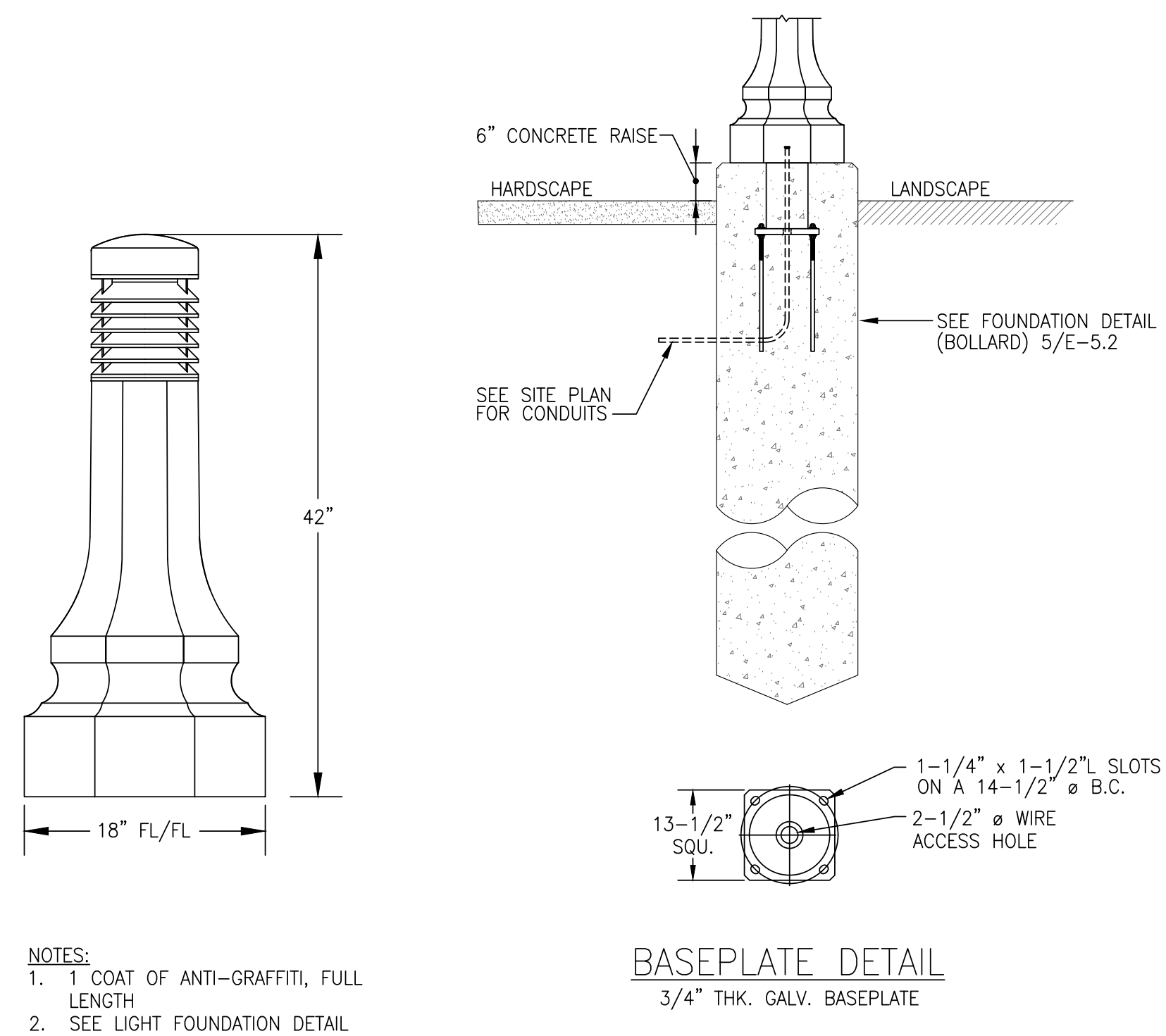


1 PARTIAL SITE PLAN AREA 11 - NEW
SCALE: N.T.S.

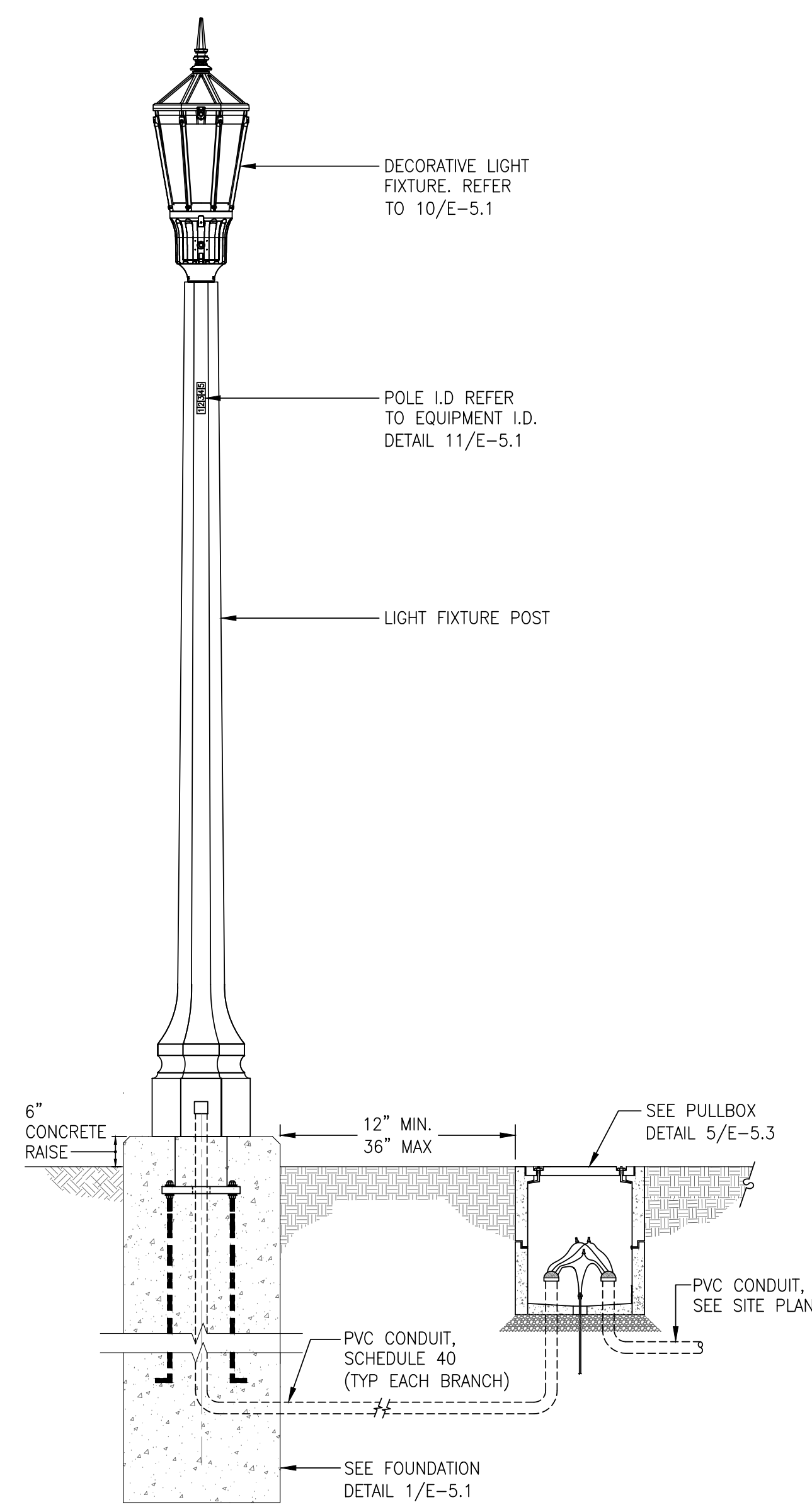
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10 DECORATIVE STANDARD LIGHT DETAIL
SCALE: N.T.S.

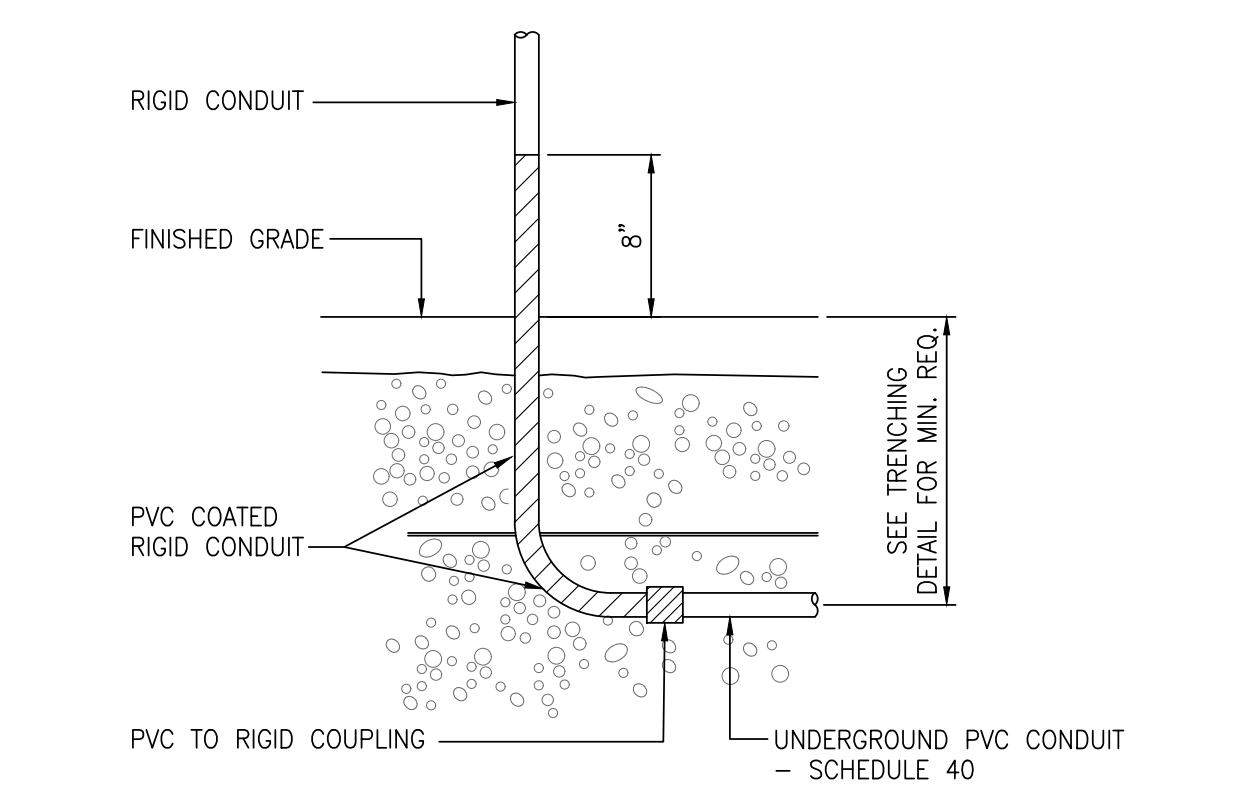


9 BOLLARD LIGHT DETAIL
SCALE: N.T.S.



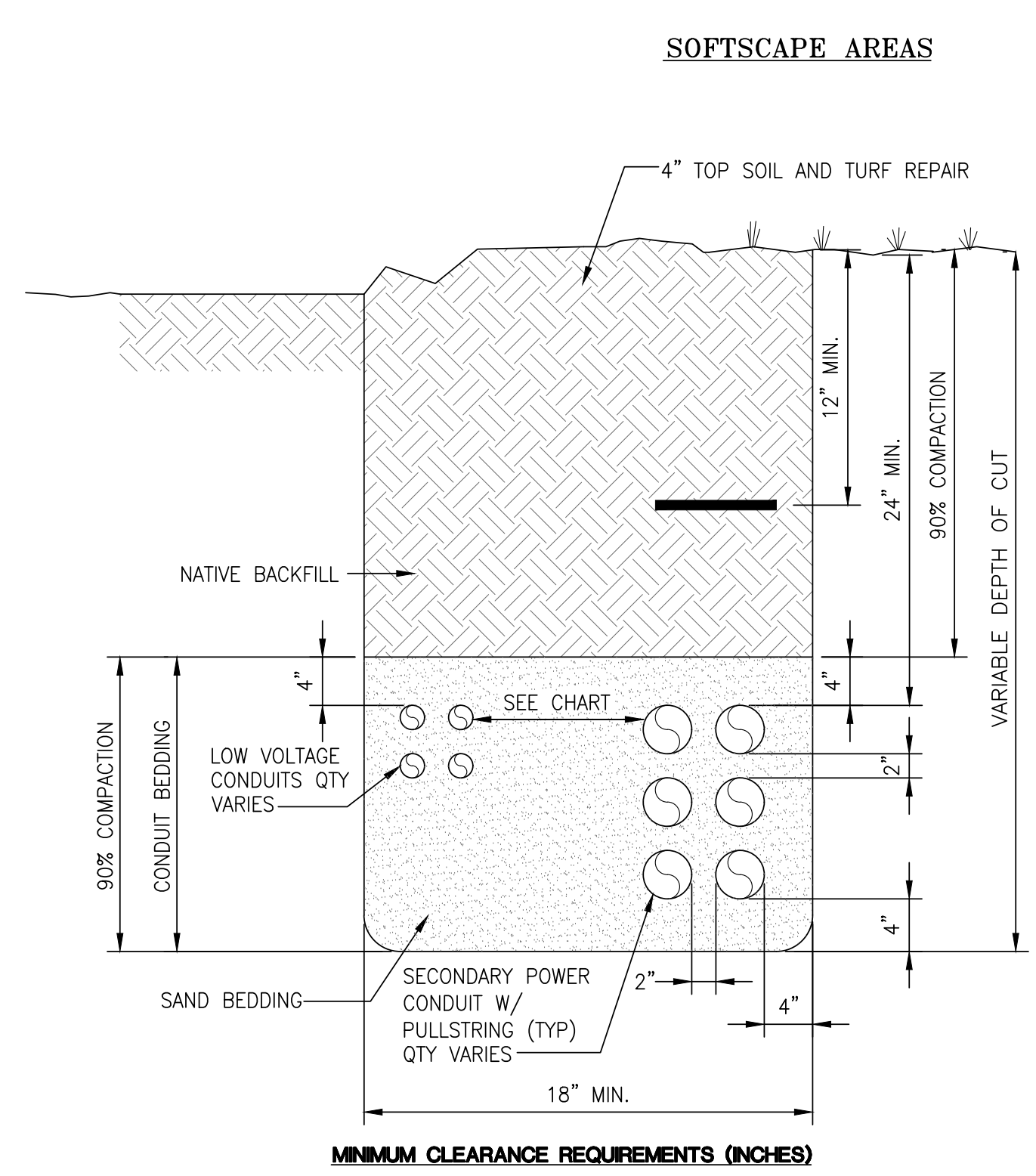
6 POLE ELEVATION (PATHWAY LIGHT) DETAIL
SCALE: N.T.S.

3 NOT USED
SCALE: N.T.S.



2 CONDUIT TRANSITION DETAIL
SCALE: N.T.S.

7 NOT USED
SCALE: N.T.S.



MINIMUM CLEARANCE REQUIREMENTS (INCHES)

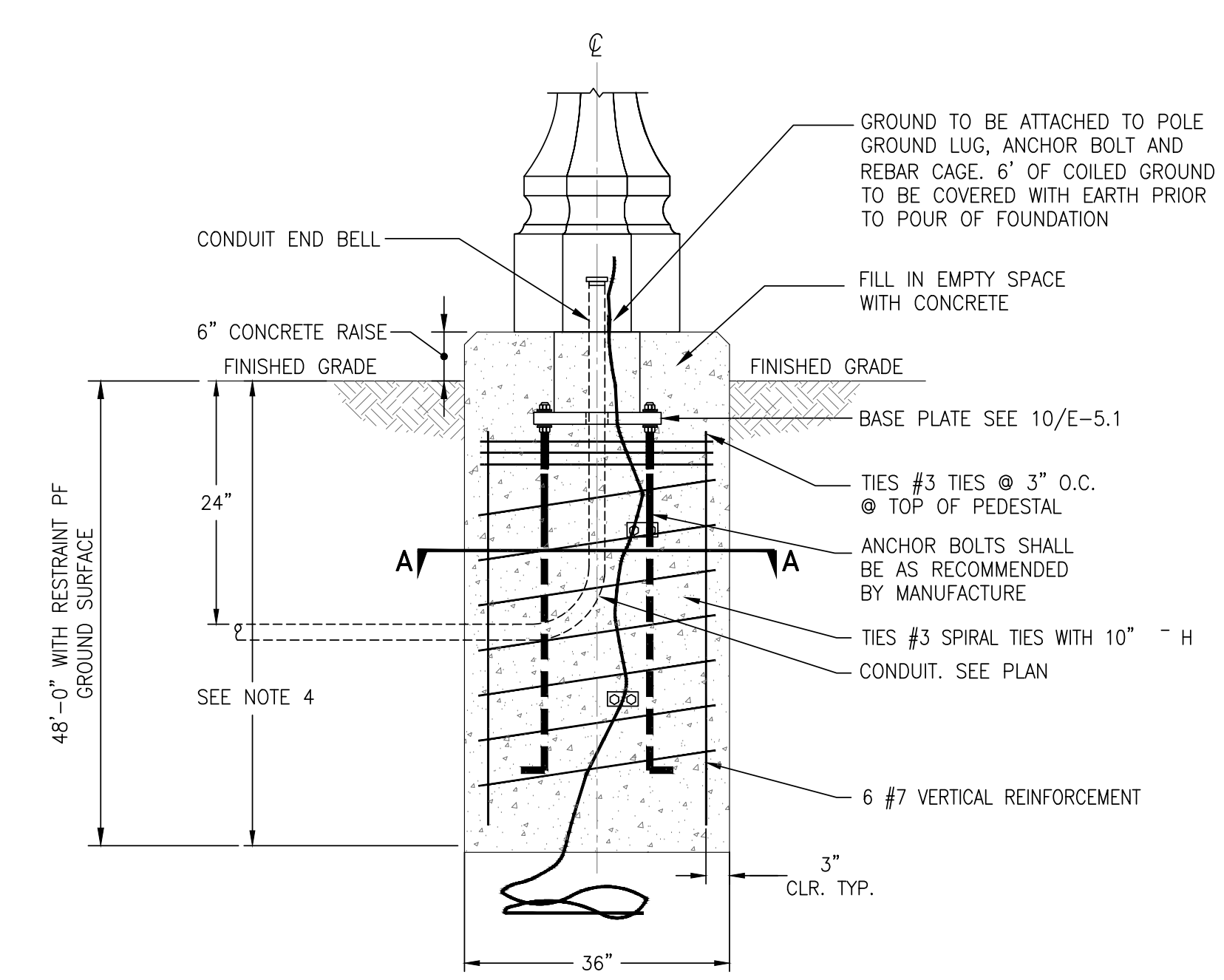
	PG	SC	G	TEL	TV	LV	W
PRIMARY CONDUIT (OVER 600V) (PG)	8	36	36	36	36	36	36
SECONDARY POWER CONDUIT (SC)	8	-	12	12	12	12	36
GAS (G)	36	12	-	12	12	12	36
TELEPHONE (TEL)	36	12	12	-	2	2	36
CATV (TV)	36	12	12	2	-	2	36
OTHER LOW VOLTAGE (LV)	36	12	12	2	2	-	36
WET UTILITIES (W)	36	36	36	36	36	36	-

TABLE ONLY APPLIES TO CONDUITS AFTER THE UTILITY POINT OF CONNECTION.

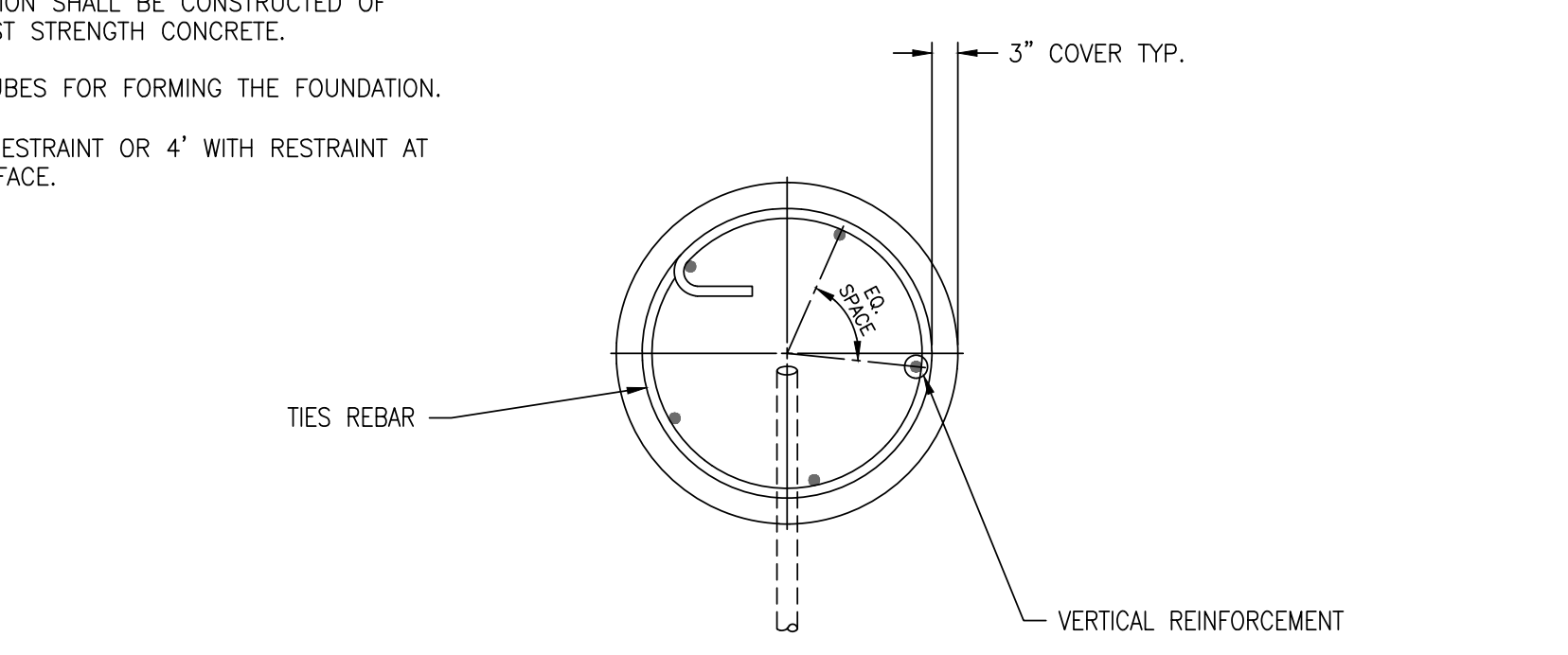
NOTES:
 1. UTILITY OWNED AND END-USER CONDUITS AND TRENCH SHALL NOT BE COMBINED.
 2. PROVIDE 12" SEPARATION WHEN CROSSING "WET" UTILITIES.

8 TRENCHING DETAIL - POWER & LOW VOLTAGE
SCALE: N.T.S.

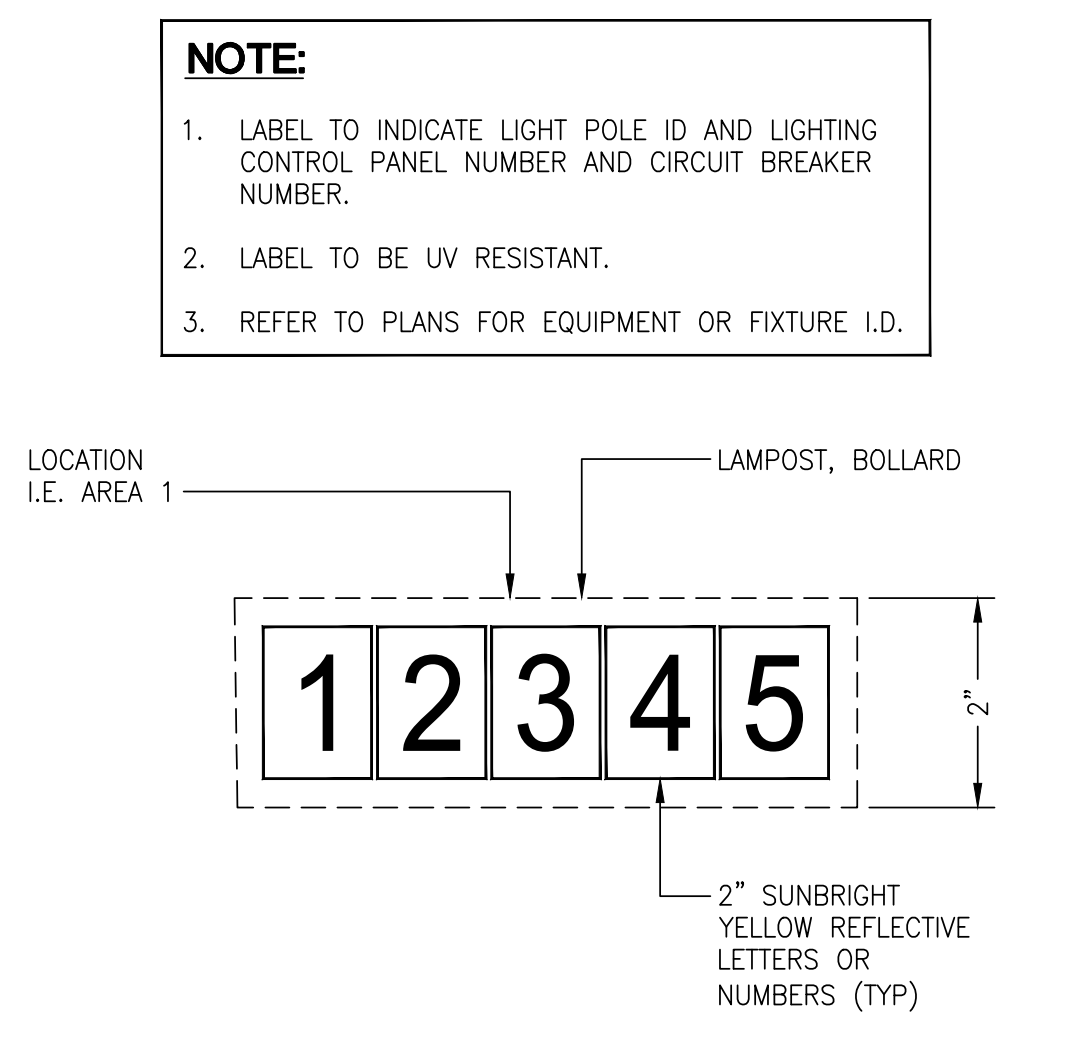
5 NOT USED
SCALE: N.T.S.



- NOTES:**
- CALL CITY FOR INSPECTION BEFORE POURING CONCRETE.
 - THE FOUNDATION SHALL BE CONSTRUCTED OF 3000 PSI TEST STRENGTH CONCRETE.
 - USE SONO TUBES FOR FORMING THE FOUNDATION.
 - 5' WITHOUT RESTRAINT OR 4' WITH RESTRAINT AT GROUND SURFACE.



1 FOUNDATION DETAIL
SCALE: N.T.S.



11 TYPICAL EQUIPMENT I.D.
SCALE: N.T.S.

4 NOT USED
SCALE: N.T.S.

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 PATHWAY LIGHTING DESIGN**

ISSUE

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SHEET TITLE
ELECTRICAL DETAILS

SCALE: AS NOTED
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E-5.1
 SHEET OF XX

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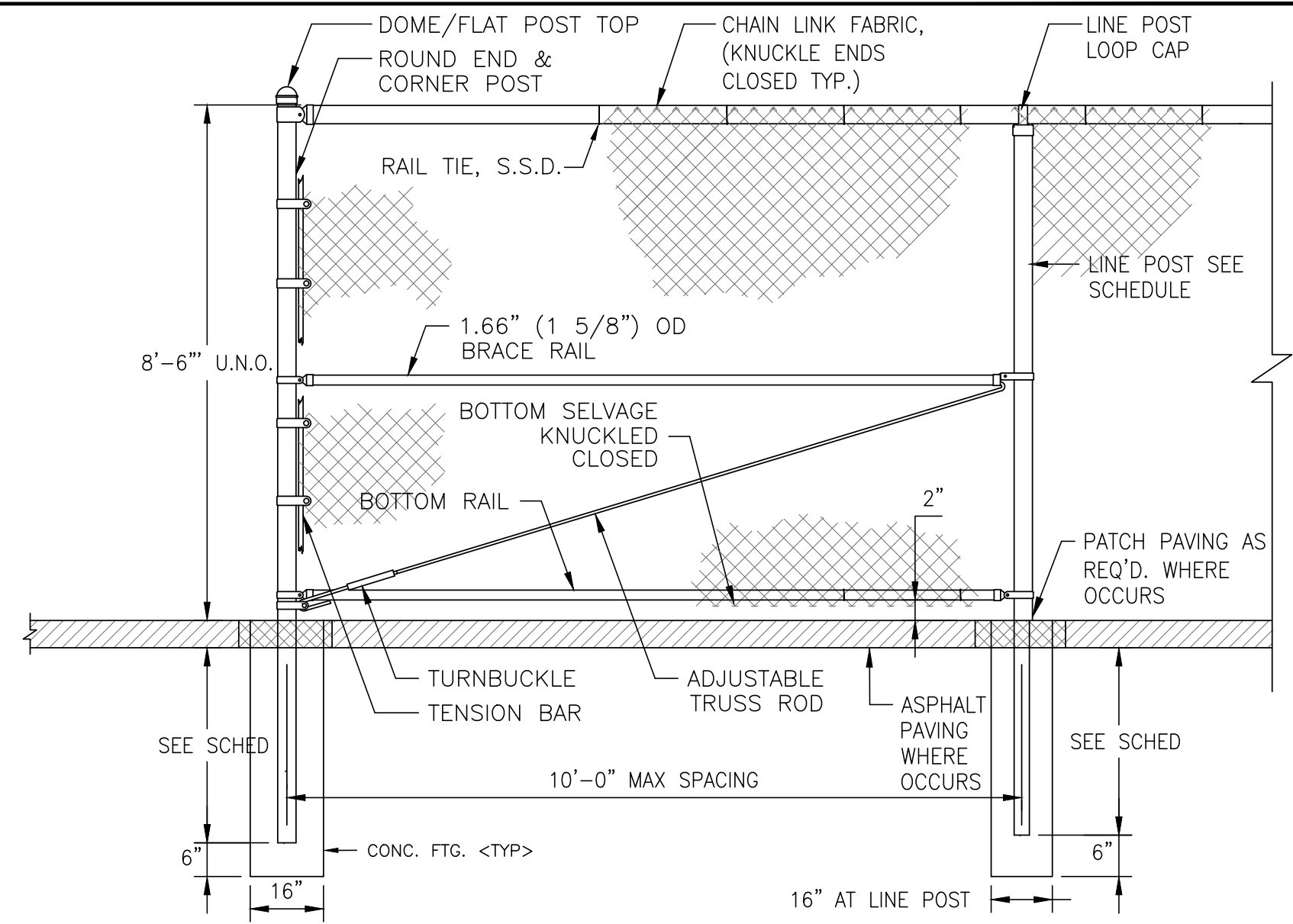
FENCE & GATE POSTS & FOOTINGS SCHEDULE				
TYPE	DESCRIPTION	DESIGN POST SIZE	DESIGN PIER DIA., IN.	REQ'D FTG. DEPTH, FT.
FENCE LINE POSTS	8'-6" FENCE W/ SLATS x 10' SPACING	4" DIA. STD. PIPE	16	7.5
GATE POSTS	8'-6" FENCE W/ SLATS W/ 5' GATE	2-1/2" DIA. STD. PIPE	16	4.5
	8'-6" FENCE W/ SLATS W/ (2) 6' GATES	4" DIA. STD. PIPE	16	7.5

NOTES:

A. THE POST SIZES LISTED ABOVE ARE THE NOMINAL PIPE SIZES (NPS), NOT THE ACTUAL OUTSIDE DIAMETER (O.D.). ALSO, THE "STD. PIPE" DESIGNATION ABOVE IS EQUIVALENT TO SCHEDULE 40. NOTE, THE DESIGN POST SIZES LISTED ABOVE ARE FOR FENCE LINE POSTS AND GATE POSTS. CORNER AND TERMINAL POSTS SHALL BE ONE POST SIZE LARGER THAN THE LISTED LINE POST SIZE, TYPICAL.

B. THE MIN. REQUIRED PIER DIAMETER IS BASED ON 4" MIN. CONCRETE COVER AROUND POST. THE MAX. REQUIRED PIER DIAMETER IS THE MAX. SIZE ALLOWED WITHOUT USING TIE REINFORCING AND IS BASED ON 6 TIMES THE POST DIAMETER, BUT NOT GREATER THAN 36". NOTE, IF THE PIER DIAMETER IS GREATER THAN THE MAX. LISTED ABOVE, THEN PIER REINFORCING -- TIES & VERTICAL BARS -- IS REQUIRED. THEREFORE, IF THE DESIGN PIER DIAMETER LISTED ABOVE IS USED, THEN NO PIER REINFORCING IS REQUIRED.

7 CHAIN LINK FENCE AND GATE DETAIL (PHASE 2 ADD ALTERNATE)
SCALE: N.T.S.



NOTES:

GATE POST, CORNER, & LINE POSTS: SCHE. 40 GALV.

FABRIC: 1" MESH, 9 GA. ZINC-COATED WIRE, WITH DARK GREEN VINYL SLATS.

RAILS: POST BRACES 1.66" DIA. SCHE. 40 GALV. PIPE

HINGES: NON-LIFT-OFF TYPE, 180° SWING

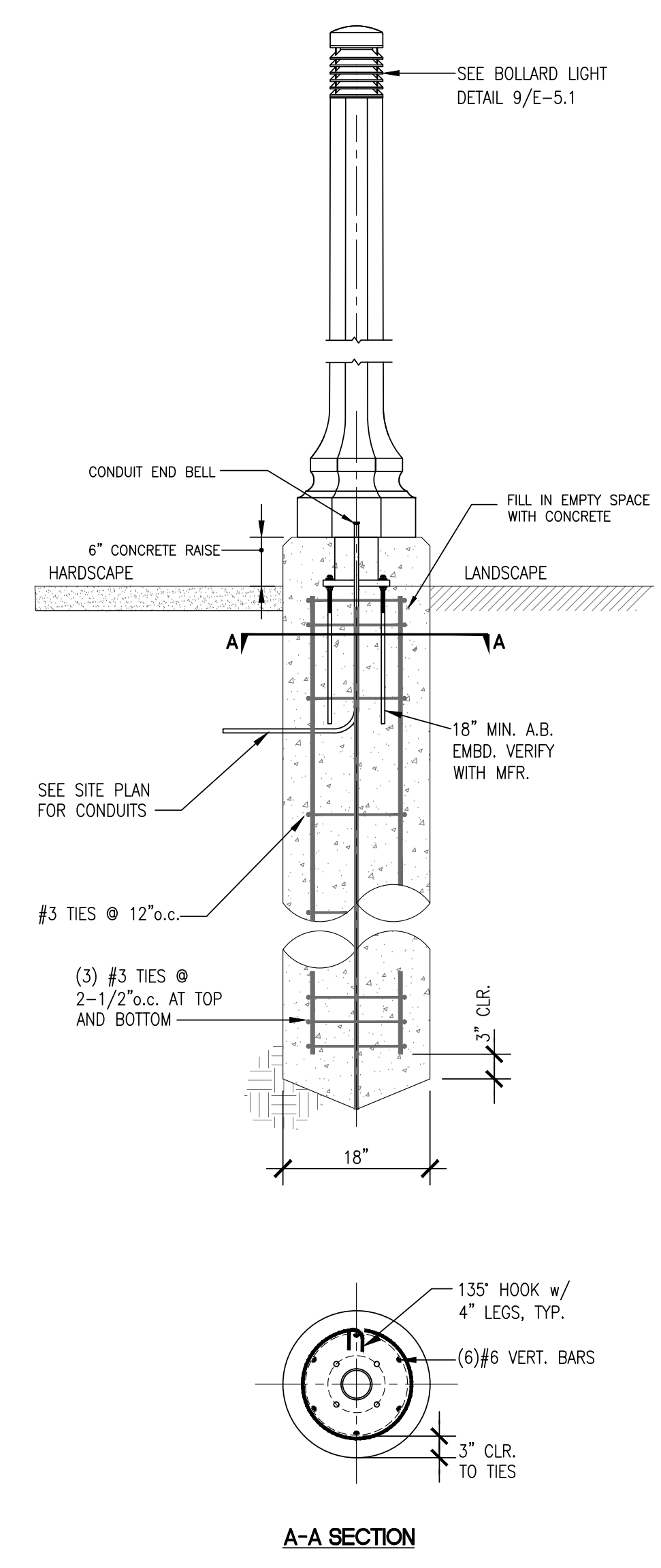
CONCRETE: 3000 PSI @ 28 DAYS

INSTALLATION: INSTALL PER ASTM F-567. POST SIZE PER SCHEDULE 7/E-5.2.

ASPHALT PAVING: PATCH/REPAIR ASPHALT PAVING AS REQ'D.

LOCK: PROVIDE PER ALAMEDA UTILITY STANDARDS

6 CHAIN LINK FENCE AND GATE DETAIL (PHASE 2 ADD ALTERNATE)
SCALE: N.T.S.



NOTES:

1. NEW MATERIALS SHALL BE AS FOLLOWS:
CONCRETE: NORMAL WEIGHT CONCRETE, 28-DAY COMP. STRENGTH CONCRETE OF 3,000 PSI MIN. MAX SLUMP OF 4".
CONCRETE REINFORCING: DEFORMED BAR, ASTM A615, GRADE 40 FOR #4 & SMALLER, GRADE 60 FOR #5 & LARGER

2. SPECIAL INSPECTIONS: PROVIDE CONTINUOUS INSPECTION FOR THE FOLLOWING: CONCRETE: EXCAVATION, FINAL PLACEMENT OF REBAR, TAKING OF TEST SPECIMENS.

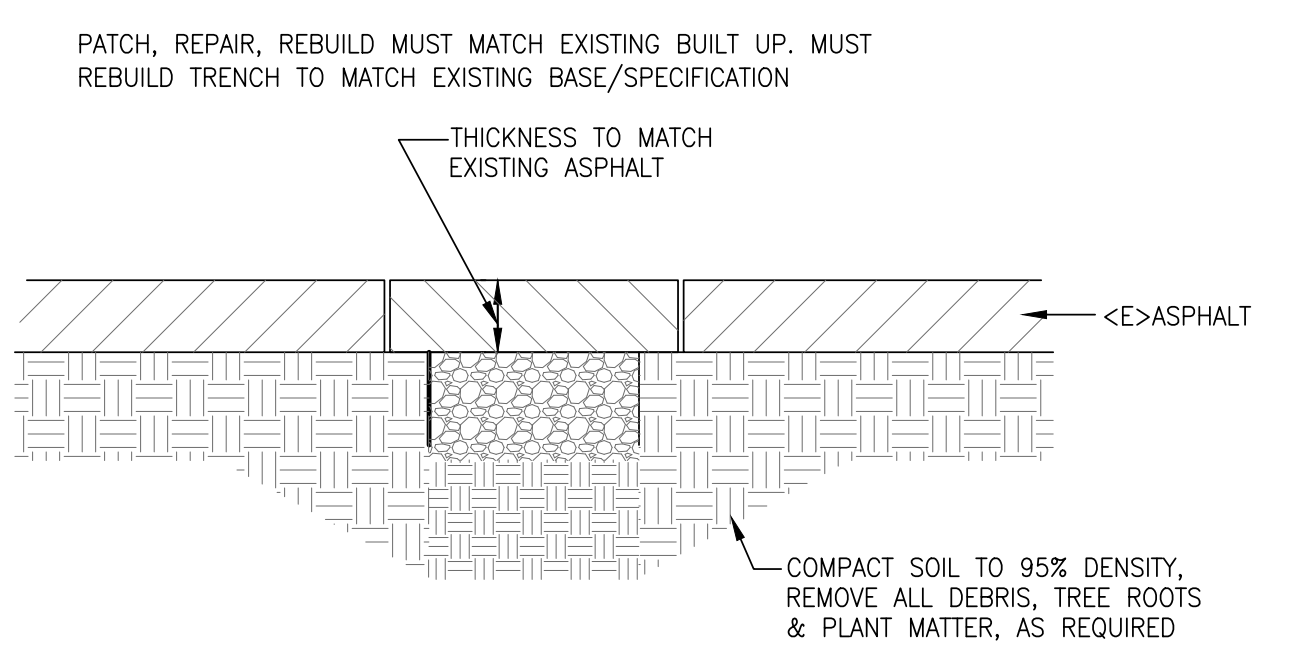
3. TESTING: * CONCRETE: CAST (4) CYLINDERS, TEST AT 7, 14 & 28 DAYS (HOLD EXTRA FOR 60 DAYS). TEST SLUMP.

5 FOUNDATION DETAIL (BOLLARD)
SCALE: N.T.S.

NOTES:

1. COORDINATE TRENCHING WITH ELECTRICAL.

2. 2% MAX CROSS SLOPE AT PATH OF TRAVEL AND 5% MAX RUNNING SLOPE ALONG PATH OF TRAVEL.



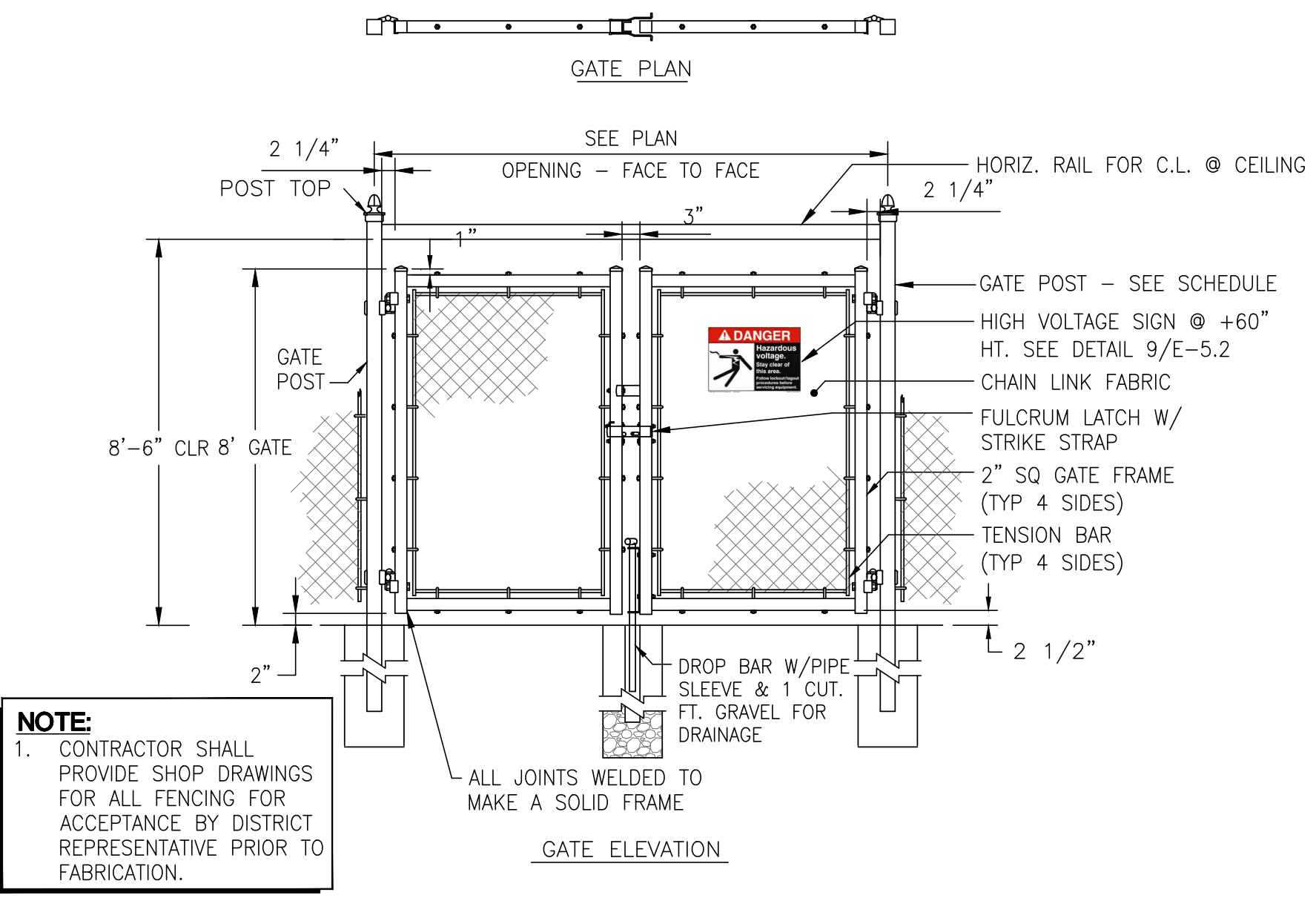
10 ASPHALT PATCH DETAIL
SCALE: N.T.S.

NOTE:

1. SIGNS TO BE VINYL WITH SELF-ADHESIVE MOUNTED TO STANDARD FIBERGLASS PANEL W/ (4) #10 COUNTERSUNK SCREWS (SCREW HEAD PAINTED TO MATCH ADJACENT COLOR).



9 HAZARDOUS VOLTAGE SIGN (PHASE 2 ADD ALTERNATE)
SCALE: N.T.S.



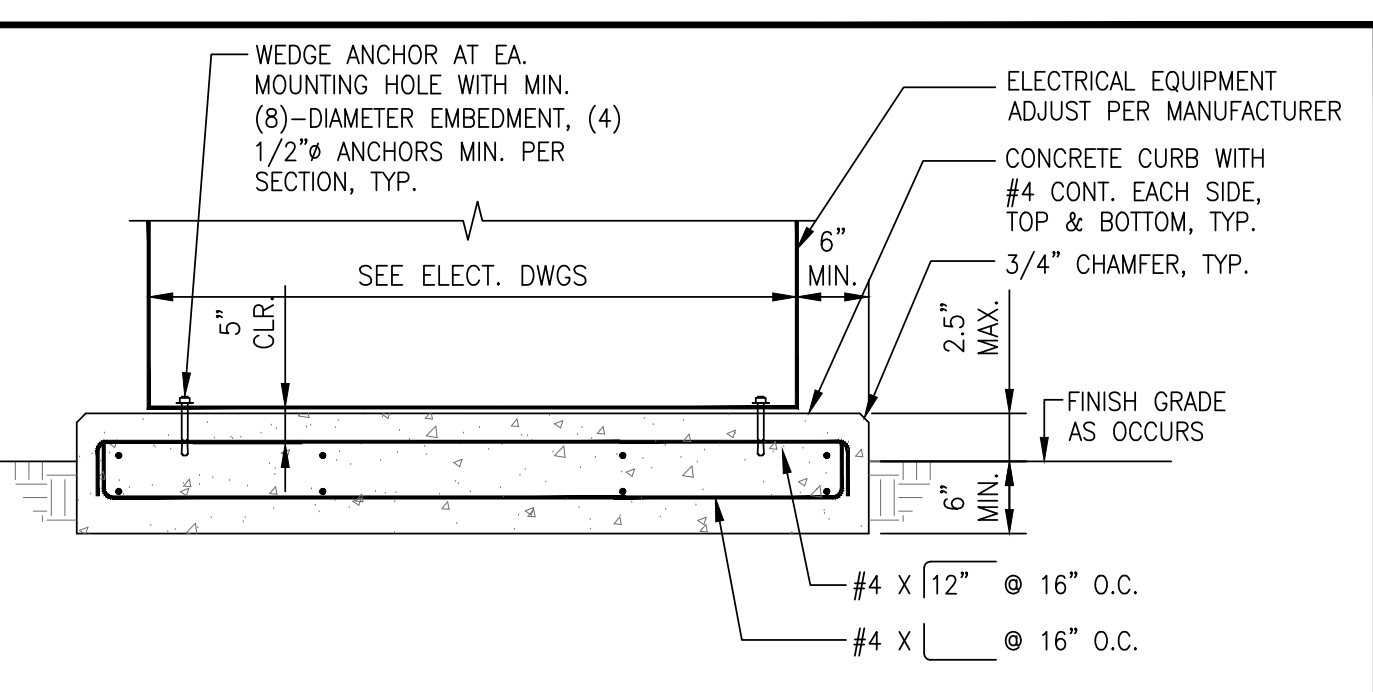
8 TYPICAL DOUBLE SWING GATE (PHASE 2 ADD ALTERNATE)
SCALE: N.T.S.

NOTE:

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL FENCING FOR ACCEPTANCE BY DISTRICT REPRESENTATIVE PRIOR TO FABRICATION.

4 NOT USED
SCALE: N.T.S.

3 CONCRETE EQUIPMENT PAD DETAIL
SCALE: N.T.S.



NOTES:

1. NEW MATERIALS SHALL BE AS FOLLOWS:
CONCRETE: NORMAL WEIGHT CONCRETE, 3/4" MAX. AGGREGATE, MAX. 5" SLUMP, WITH MIN. 28-DAY STRENGTH OF 3000 PSI. SEE NOTES NO. 3 & 4, BELOW, FOR TESTING & INSPECTION.
REBAR: EXPANSION (WEDGE) ANCHORS - HILTI KWIK-BOLT TZ OR ENGINEER APPROVED EQUAL. NO SPECIAL INSPECTION REQUIRED. ALL ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL. SEE NOTE NO. 2, BELOW, FOR PULL-TESTING.

2. EXPANSION ANCHORS SHALL BE NO LESS THAN 1/8" SMALLER THAN MOUNTING HOLE, MIN. 1/2" ANCHOR. NO SPECIAL INSPECTION IS REQUIRED FOR EXPANSION ANCHORS. TEST 10% OF EXPANSION ANCHORS TO 1860 LBS. (1.6 x ALLOWABLE) IN TENSION WITH CALIBRATED HYDRAULIC RAM.

3. SPECIAL INSPECTIONS: PROVIDE CONTINUOUS INSPECTION FOR THE FOLLOWING:
- CONCRETE: FINAL PLACEMENT OF REBAR, CONCRETE PLACEMENT AND TAKING & TESTING OF SPECIMENS.

4. TESTING: A TESTING AGENCY SHALL PROVIDE TESTING FOR THE FOLLOWING:
- CONCRETE: REVIEW MIX DESIGN, TEST SLUMP, CAST (3) TEST CYLINDERS. TEST CYLINDERS AT 7 & 28 DAYS & HOLD THIRD CYLINDER FOR 60 DAYS.
- EXPANSION ANCHORS: PULL-TEST 10% OF ANCHORS. SEE NOTE NO. 2, ABOVE.

5. CONTRACTOR SHALL ADJUST PAD DIMENSIONS AND CLEARANCES OF EQUIPMENT WITH RESPECT TO ACTUAL EQUIPMENT SUPPLIED.

6. PAD HEIGHT DIMENSION SHALL NOT EXCEED 2.5" ABOVE GRADE.

NOTES:

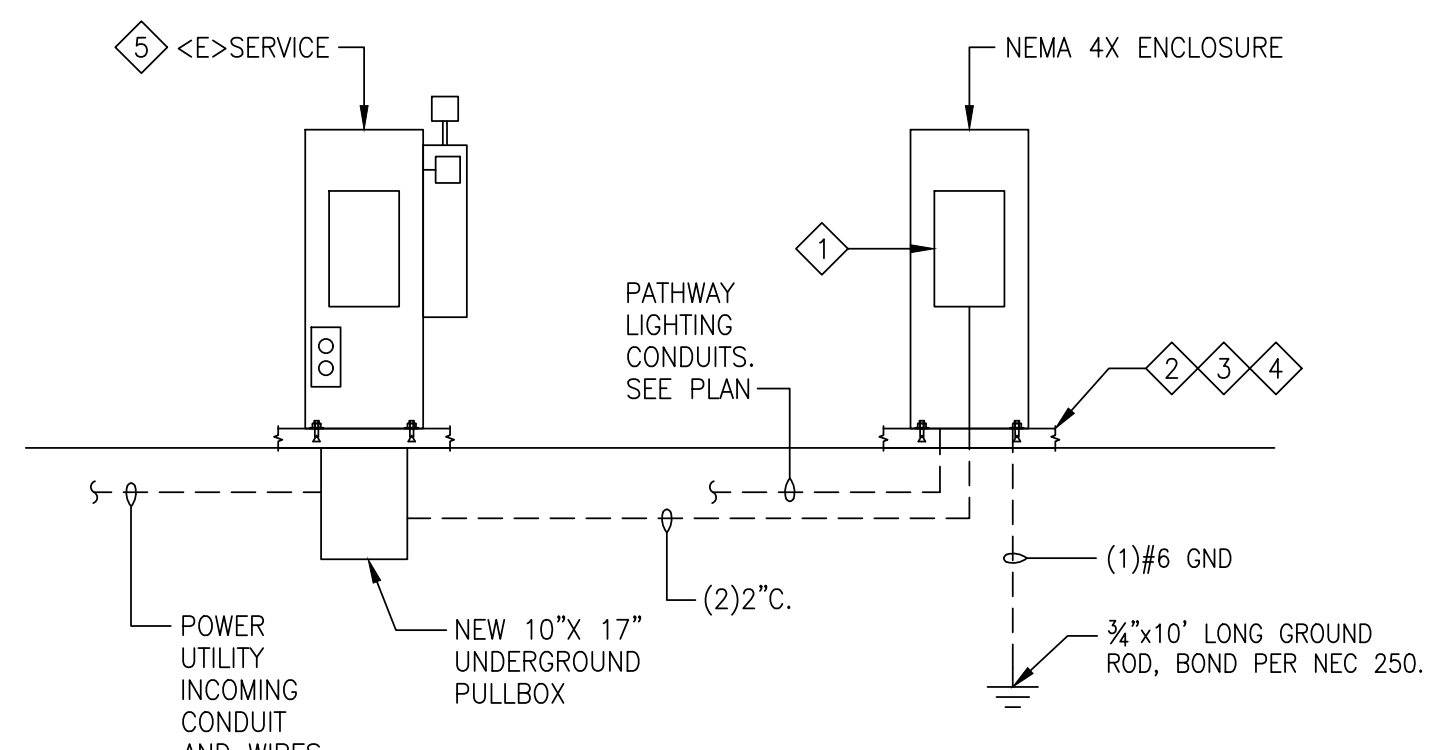
1. FURNISH AND INSTALL NEW TESCO METERED/CONTROL PANEL PEDESTAL, NEMA 4X ENCLOSURE. INSTALL INTERNAL PHOTOCELL AND ASTRONOMICAL TIME CLOCK FOR CONTROL.

2. PROVIDE A HOUSEKEEPING PAD WITH CHAMFERED EDGES. REFER TO DETAIL #3.

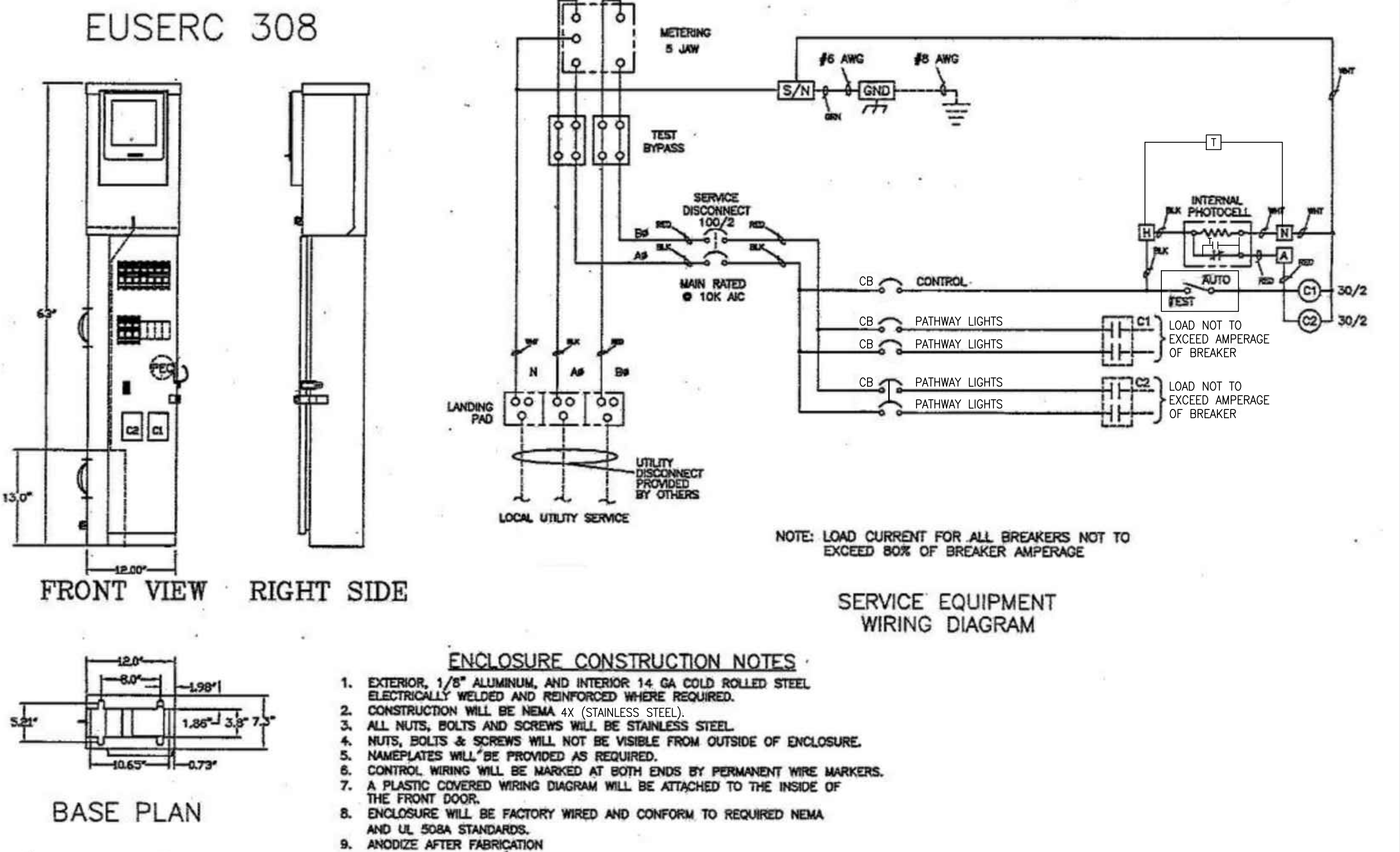
3. CONTRACTOR SHALL ANCHOR ENCLOSURE TO CONCRETE PAD AS PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR IS TO USE 3/2" HILTI TZ BOLTS WITH 4" EMBEDMENT.

4. CONTRACTOR SHALL FURNISH AND INSTALL GROUND ROD. ALSO INSTALL #6 BONDING JUMPER FROM GROUND ROD TO PAD AND TO EQUIPMENT ENCLOSURE.

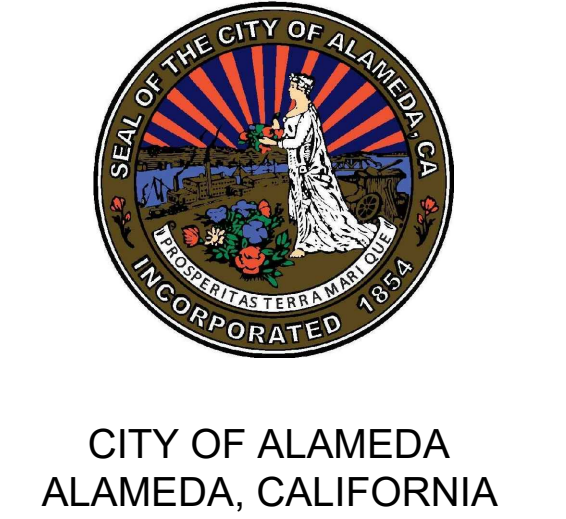
5. DEMOLISH EXISTING METERED/CONTROL PANEL PEDESTAL. INTERCEPT EXISTING CONDUITS INTO 10"x17" NEW UNDERGROUND PULLBOX. CONTRACTOR TO COORDINATE THE WORK AND APPLICATION WITH POWER UTILITY.



2 TESCO METERED LIGHTING CONTROL CABINET - LCP1 AND LCP2 (PHASE 2 ADD ALTERNATE)
SCALE: N.T.S.



SALAS O'BRIEN
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California | Georgia | Louisiana
Montana | Texas | Washington
Licensed in 50 States



ALAMEDA SHORELINE PARK PATHWAY LIGHTING DESIGN

MARK	DATE	DESCRIPTION
	07/18/17	50% CD
	08/23/17	90% CD
	10/05/17	BID/PERMIT SUBMITTAL
	11/15/17	PERMIT RESUBMITTAL
	03/26/18	BID SET
	06/04/18	OWNER COMMENTS
	08/05/19	BULLETIN #1
	09/18/20	100% CD

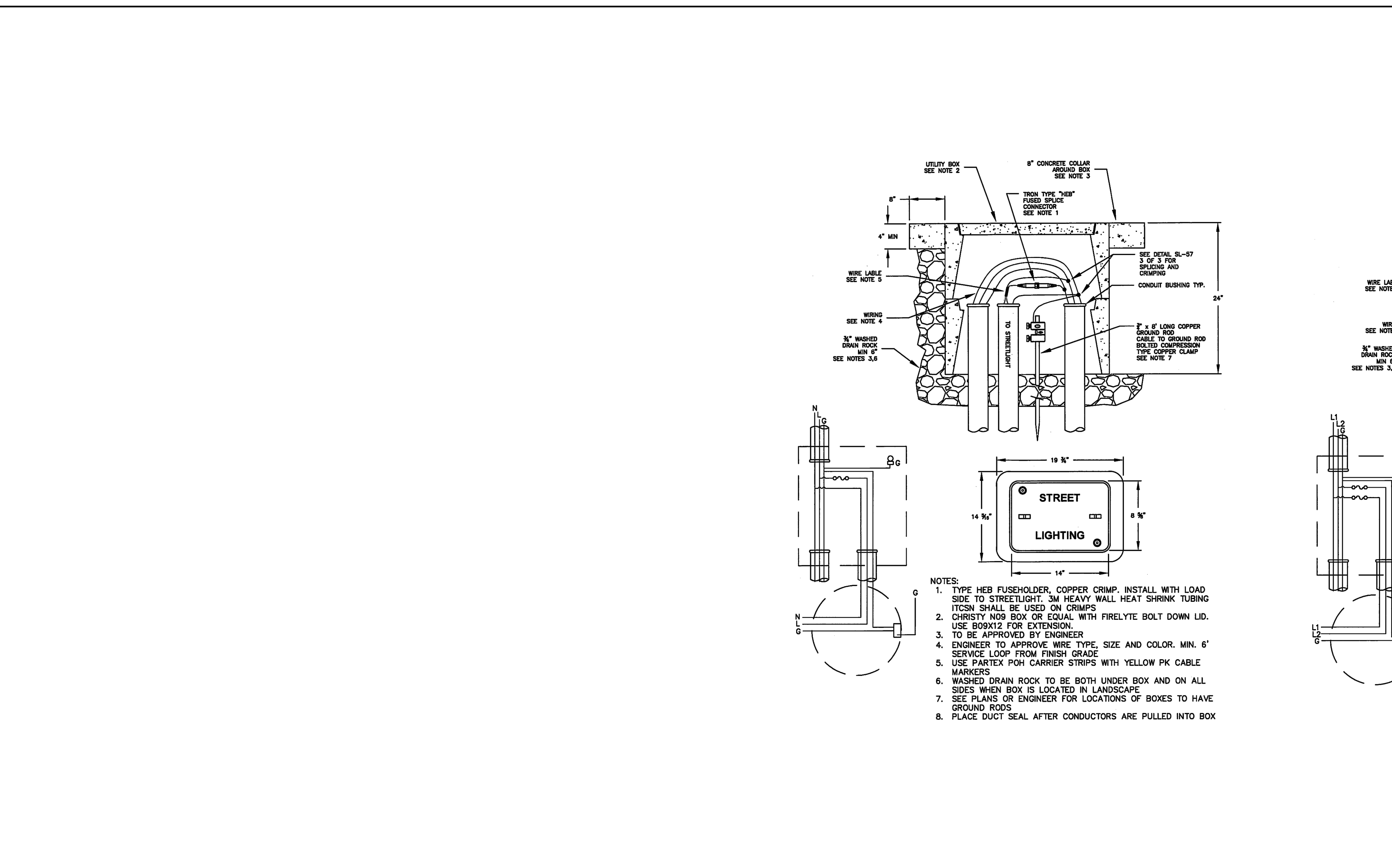
SOBE PROJECT NO: 170430
DATE: 09/18/20
DRAWN BY: RP
CHECKED BY: TJ
APPROVED BY: JG

SHEET TITLE
ELECTRICAL DETAILS
SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

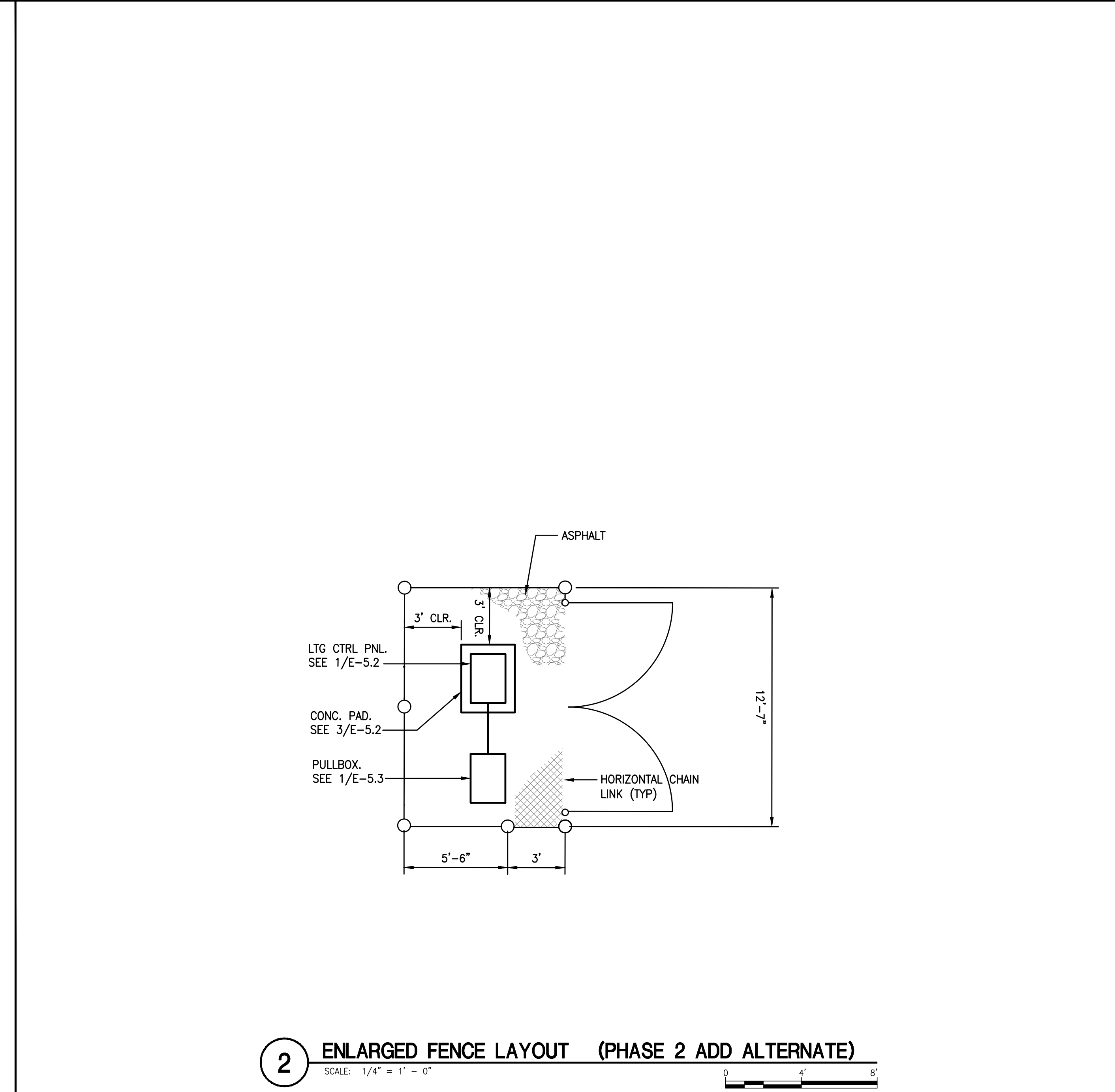
THIS DRAWING IS 30" X 42" AT FULL SIZE. 15" X 21" AT HALF SIZE. © 2015 BY SALAS O'BRIEN ENGINEERS, INC.



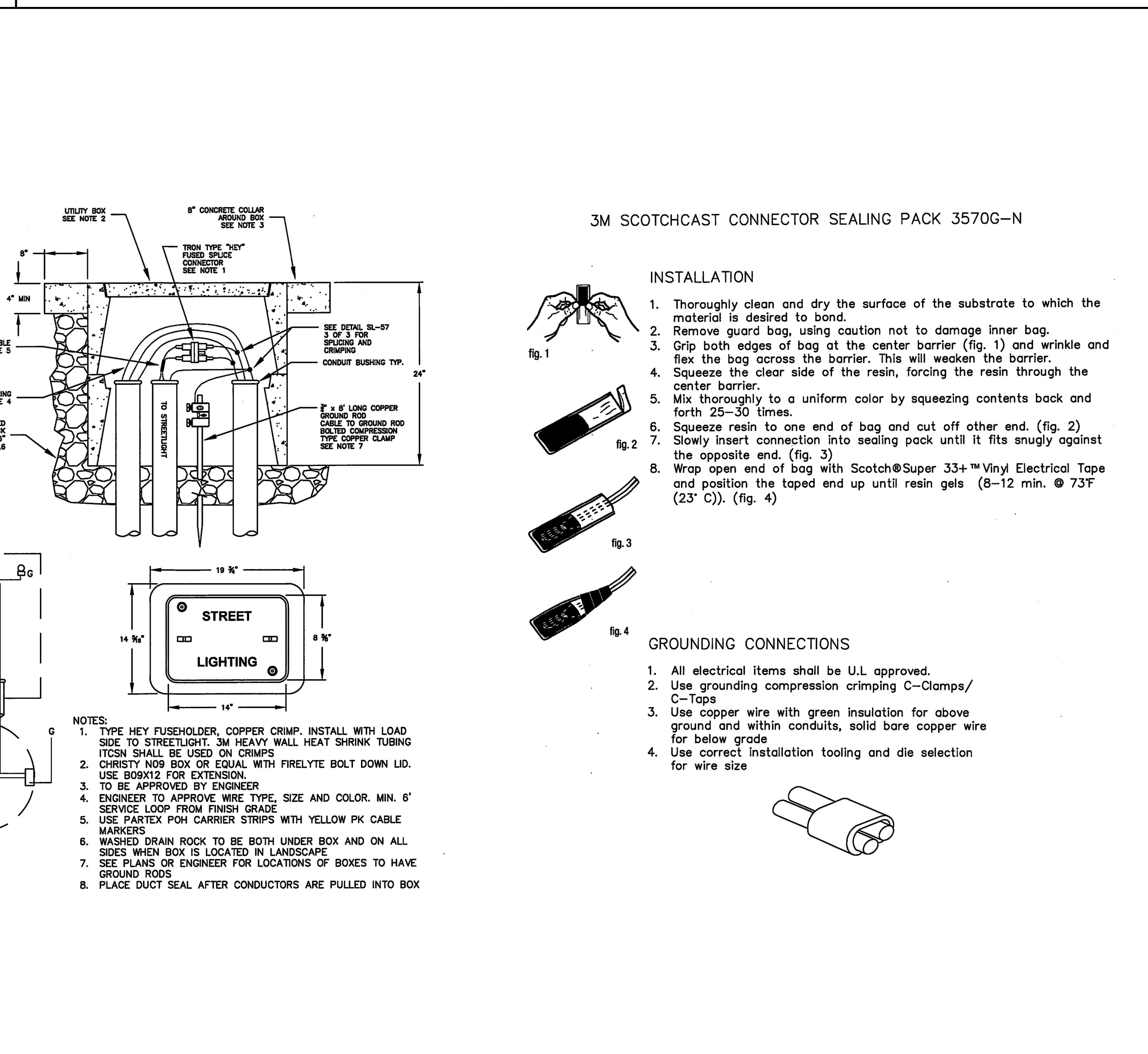
2 ENLARGED FENCE LAYOUT (PHASE 2 ADD ALTERNATE)
SCALE: 1/4" = 1' - 0"



1A 277V STREETLIGHT WIRING
SCALE: N.T.S.

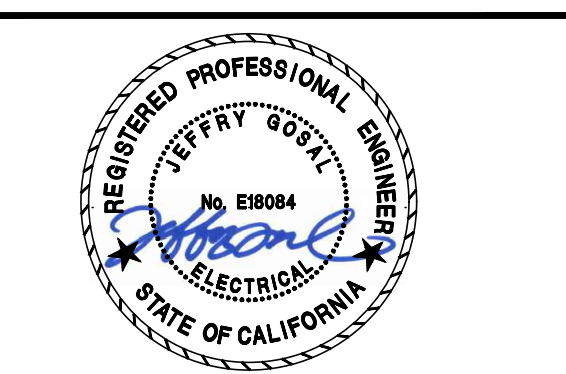


1B 208V STREETLIGHT WIRING
SCALE: N.T.S.



1C SPlicing AND CRIMPING
SCALE: N.T.S.

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CITY OF ALAMEDA
ALAMEDA, CALIFORNIA

**ALAMEDA SHORELINE PARK
PATHWAY LIGHTING DESIGN**

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\\DRAWINGS\City of Alameda\170430 Alameda Shoreline Park Lighting Design\170430E-5.3.dwg 9/18/2020 9:16 AM Rick Podus