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PNM — Electric Engineering Representative 4201 Edith Blvd. NE Albuquerque, NM 87107

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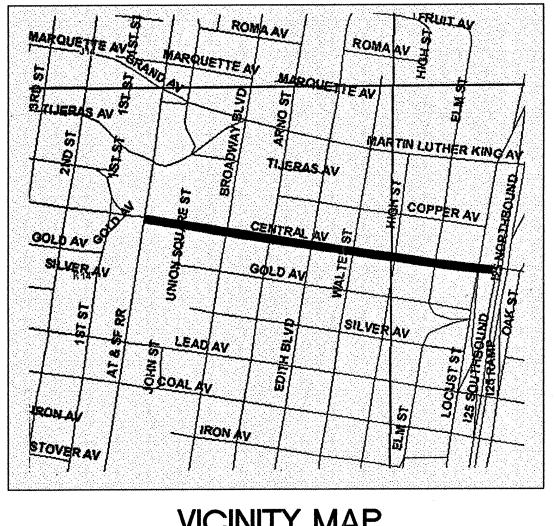
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50 Centre on the Lake
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VICINITY MAP
MAP NO. K-14

# CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

# CENTRAL AVENUE STREET LIGHTING

## DRAWING LIST

1 TITLE SHEET

- 2 GENERAL NOTES
- 3 ELECTRICAL DEMOLITION PLAN # 1
- 4 ELECTRICAL DEMOLITION PLAN # 2
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- 6 ELECTRICAL INSTALLATION PLAN # 2
- 7 ELECTRICAL INSTALLATION PLAN # 3
- B ELECTRICAL DETAIL SHEET #1
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- 10 ELECTRICAL DETAIL SHEET #3
- 11 SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
- 12 TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. MUTCD)

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#### GENERAL NOTES

- ALL WORK DETAILED ON THESE DRAWINGS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED THROUGH UPDATES NO. 6. HEREBY REFERRED TO AS THE SPECIFICATIONS, REFERENCE MADE TO STANDARD DRAWINGS IMPLY THAT SECTION OF THE SPECIFICATIONS, WHICH INCLUDES MISCELLANEOUS STANDARD DETAILS.
- LOCATION OF UTILITIES ARE APPROXIMATE, IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL PERTINENT UTILITIES IN THE FIELD, CALL N.M. ONE CALL SYSTEM, INC AT 260-1990 TWO WORKING DAYS BEFORE ANY EXCAVATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT ALL UTILITIES EXPOSED DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES, INCLUDING SERVICE LINES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET. AS PER COA STANDARDS.
- ALL PAVEMENT MARKINGS OR OTHER TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC SIGNAL CONDUIT, ADVERSELY AFFECTED BY CONSTRUCTION SHALL BE REPLACED IN PRE-CONSTRUCTION CONDITION. THESE COST SHALL BE INCIDENTAL TO THE PROJECT UNLESS OTHERWISE INCLUDED IN BID ITEMS.
- CONTRACTOR SHALL COORDINATE WITH PNM WHERE LIP OF TRENCH IS LESS THAN 5' TO POWER POLE. COST ASSOCIATED WITH SUPPORT OF EXISTING POLES SHALL BE INCIDENTAL TO THE PROJECT.
- CONTRACTOR SHALL BE CHARGED BY PNM FOR ANY DAMAGE TO PNM CABLES AND FOR SUPPORTING OR MINOR RELOCATIONS OF CABLES DURING CONSTRUCTION, THESE COST SHALL BE INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE TWO PROJECT CONSTRUCTION SIGNS PER REQUIREMENTS OF SPECIAL PROVISIONS.
- CONTRACTOR SHALL COORDINATE WITH THE GAS COMPANY OF NEW MEXICO TWO WEEKS PRIOR TO NEEDING A GAS LINE SEGMENT RELOCATED.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS, CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION, REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE. ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.
- $^{\mathsf{N}_{\mathsf{r}}}$  all excavation. Trenching, and shoring activities must be carried OUT IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE PRIOR TO BIDDING AND FAMILIARIZE THEMSELVES WITH FIELD CONDITIONS INCLUDING THE LOCATION OF OTHER EXISTING UTILITIES OF WHICH SOME ARE GENERALLY INDICATED ON THE PLANS AND OTHER UTILITIES/OBSTACLES CLEARLY VISIBLE IN THE FIELD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLAN THEIR CONSTRUCTION METHODS TO ADEQUATELY SUPPORT AND/OR AVOID ALL UTILITIES AND ALL UTILITIES/OBSTRUCTIONS CLEARLY VISIBLE IN THE FIELD. ANY RELOCATION OF UTILITIES/OBSTACLES SHOWN ON THE PLANS OR VISIBLE IN THE FIELD IN ORDER TO COMPLETE THE REQUIRED WORK WILL BE CONSIDERED TO BE AT THE CONTRACTORS CONVENIENCE AND BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS THE UTILITY/OBSTRUCTION IS IDENTIFIED ON THE PLANS AS BEING RELOCATABLE AS PART OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIRED RELOCATIONS WITH APPROPRIATE UTILITIES/INDIVIDUALS.

#### GENERAL NOTES (CONTINUED)

- P. IN LOCATIONS WHERE POLES, PULLBOXES, CONDUIT, ETC. ARE BEING REMOVED, AND/OR WHERE NEW IS TO BE INSTALLED, REMOVE, ADD, AND REPLACE SIDEWALKS, DRIVEWAYS, CURBS, GUTTERS, ASPHALT AND CONCRETE ROADS, ADA ACCESS RAMPS, ETC. AS NECESSARY. REFER TO CITY OF ALBUQUERQUE STD. DWGS. #2465, 2415, 2425, 2441 (MODIFIED), 2430, 2431. WHERE CONCRETE SIDEWALKS ARE DISRUPTED, THE ENTIRE SIDEWALK PANEL IS TO BE REPLACED. WHERE CONCRETE PAVERS ARE DISRUPTED REMOVE. ADD. AND REPLACE AS NECESSARY.
- O. THE EXISTING "SL" STREET LIGHTING PULLBOXES ARE SHOWN DIAGRAMATICALLY ON THE PLANS. ACTUAL LOCATIONS WILL VARY IN THE FIELD. IN GENERAL, MOST "SL" PULLBOXES ARE LOCATED APPROXIMATELY 18" IN FROM THE CURB AND WITHIN 3-4 FEET FROM OF THE EXISTING POLE LIGHTS. REFER TO LIGHT POWER CONNECTION DETAIL(S) ON SHEET 7.
- R. IF IT IS DETERMINED BY THE CONTRACTOR THAT IT IS COST EFFECTIVE OR NECESSARY TO ADD PULLBOXES IN THE MAIN EXISTING 1 1/2" CONDUIT RUNS. THE CONTRACTOR SHALL ADD PULLBOXES AT NO CHANGE IN COST.
- S. NEW TYPE "D' POLE MOUNTED LIGHTING FIXTURE LOCATIONS HAVE BEEN PROVIDED BY THE CITY OF ALBUQUERQUE. IF A CONFLICT IS FOUND WITH THE LOCATIONS, THE CITY OF ALBUQUERQUE MUST BE CONTACTED FOR RESOLUTION.
- IRRIGATION SYSTEM PIPING EXISTS ON BOTH SIDES OF CENTRAL AVENUE AND MAY CONFLICT WITH THE INSTALLATION OF NEW POLE BASES, CONDUITS, PULLBOXES, ETC. PRIOR TO START OF WORK AND AS NEED ARISES DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT THE PARK MAINTENANCE DEPARTMENT AT 857-8650. CONTRACTOR SHALL REPAIR/REPLACE, OR RE-ROUTE PIPING, DAMAGED PIPING OR PIPING IN THE WAY OF NEW LIGHTING SYSTEMS.
- U. PRIOR TO CUTTING SIDEWALKS TO INSTALL NEW POLES, CONTRACTOR SHALL MARK THE NEW POLE LOCATION ON THE SIDEWALK. ONCE MARKED THE CITY MUST BE CONTACTED FOR POLE LOCATION APPROVAL. UPON APPROVAL, CONTRACTOR MAY PROCEED WITH INSTALLATION OF POLES. THE C.O.A. HAS THE RIGHT TO SHIFT POLE LOCATIONS FROM THAT MARKED BY THE CONTRACTOR. ONCE MARKED CONTACT DAVID HARMON AT 857-8680.
- V. ALL DIRECT BURY CONDUIT SHALL BE SCHEDULE 40 PVC OR TO MATCH EXISTING IN EXISTING CONDUIT RUNS.
- W. CONTRACTOR MUST EXERCISE CAUTION AND CARE IN REMOVAL AND INSTALLATION OF LIGHT POLES, PULLBOXES, RACEWAYS, ETC. TO INSURE EXISTING BURIED UTILITIES THAT ARE TO REMAIN IN USE ARE NOT DAMAGED. IF DAMAGED, REPAIR AS REQUIRED TO MATCH EXISTING.
- X. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL FACILITIES IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, PLANS AND ASSOCIATED NOTES, NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES. AND IN A WORKMANLIKE MANNER.
- Y. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AT JOB
- Z. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL THERMOSTATS, CONTROLS AND MAKE REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS.
- AA. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS OF ALL PERMITS. TESTS AND INSPECTIONS. AND VISIT THE SITE OF WORK BEFORE SUBMITTING BID.
- BB. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.
- CC. A SET OF MARKED UP PRINTS SHALL BE PREPARED SHOWING ALL CHANGES MADE DURING CONSTRUCTION AND SUBMITTED TO THE OWNER AT THE END OF THE JOB. ALL CHANGES MUST HAVE OWNER'S APPROVAL.
- DD. ANY DISCREPANCY BETWEEN MATERIAL DESCRIPTION AND CATALOG NUMBER SHALL BE BROUGHT TO THE ARCHITECT'S, ENGINEER'S, OR OWNER'S ATTENTION IMMEDIATELY.
- EE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CATALOG CUTS ON ALL LIGHTING FIXTURES AND OTHER EQUIPMENT SUCH AS POLES, LUMINAIRES, ARMS. BAYONET FUSE HOLDERS, WIRING, CONDUIT, HID BALLASTS, AND LAMPS.
- FF. INTERRUPTION OF ANY ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER AT LEAST 7 DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING WITH A COPY TO THE ENGINEER AND OWNER.
- GG. ALL CONDUCTORS TO HAVE THHN/THWN INSULATION, EXCEPT WHERE OTHERWISE SHOWN OR NOTED. ALL CONDUCTORS SHALL BE COPPER. ALUMINUM NOT ALLOWED.
- HH. PROVIDE SEPARATE COLOR CODING FOR 120/240V, 1 PHASE CIRCUITS. MAINTAIN SAME COLOR CODING THROUGHOUT.
- II. ALL PULLBOXES SHALL MEET THE MINIMUM SIZES AS RECOMMENDED BY
- JJ. IT IS INTENDED FOR THE CONTRACTOR TO REUSE THE EXISTING CONDUIT SYSTEMS WHERE POSSIBLE OR FEASIBLE. WIRING SHALL BE REPLACED. WIRING INDICATED ON PLAN IN EXISTING CONDUIT RUNS IS NEW.

#### GENERAL NOTES (CONTINUED)

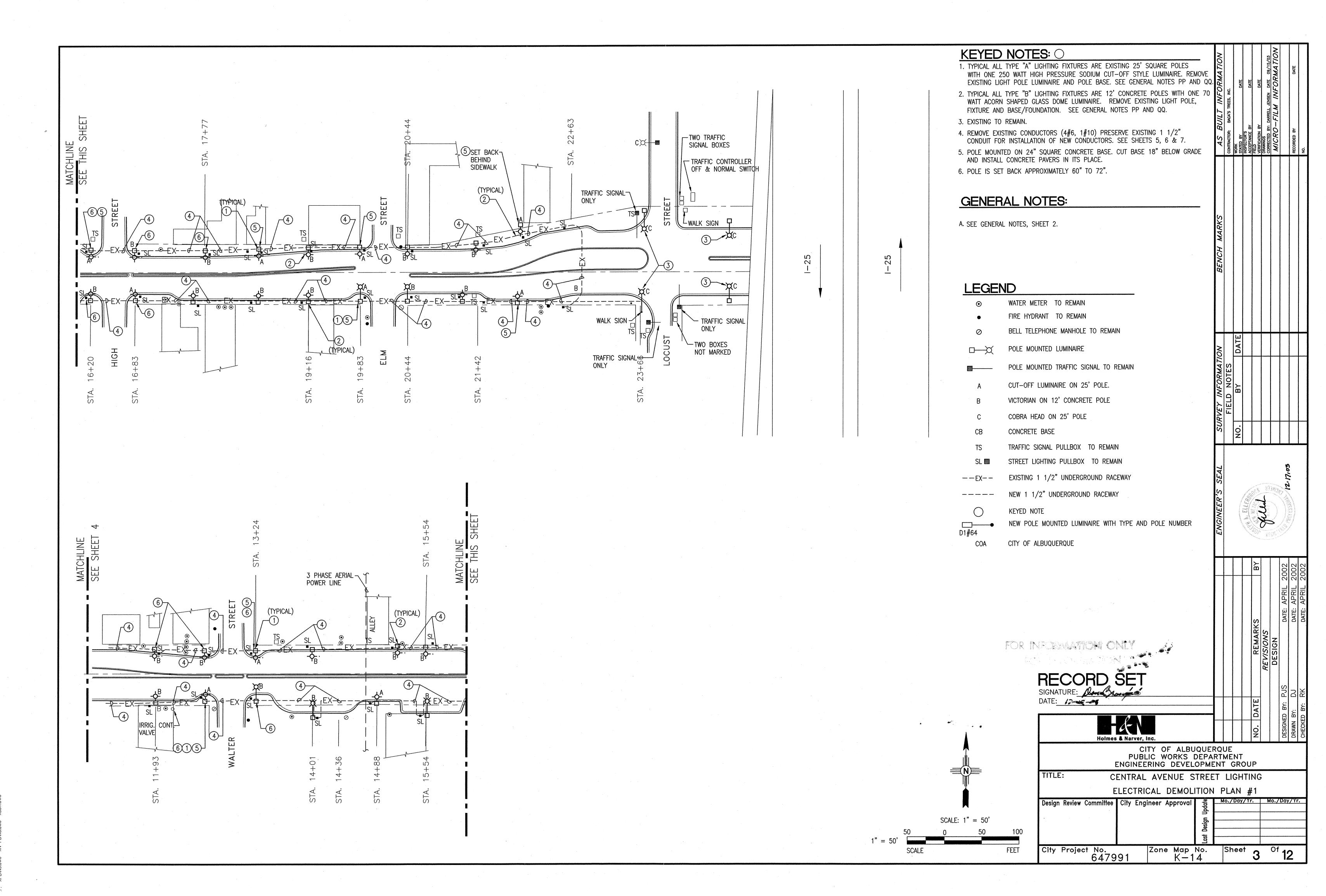
- KK. IT IS INTENDED WHERE EVER POSSIBLE TO REUSE UNDERGROUND CONDUIT. IN ALL CASES EXISTING CONDUCTORS WILL BE REMOVED AND NEW CONDUCTORS INSTALLED PER SHEETS 5,6,7 & 10.
- LL. ALL NEW CONDUIT SHALL BE PVC, SCHEDULE 40. MINIMUM 24" BELOW FINISH GRADE.
- MM. TAKE CARE WHEN REMOVING EXISTING POLE BASES TO PRESERVE UNDERGROUND CONDUITS FOR REUSE ON THE NEW INSTALLATION. REPAIR DAMAGED CONDUIT AND ADD NEW CONDUIT AS REQUIRED AND AS INDICATED ON SHEETS 5.6 & 7.
- NN. WHERE EXISTING POLES ARE REMOVED BACKFILL, COMPACT AND INSTALL PAVING TO MATCH ADJACENT PAVING. COORDINATE EXACT REQUIREMENTS IN THE FIELD.
- OO. EXISTING CONDUIT RUNS, FIXTURE, AND PULLBOX LOCATIONS, ARE BASED ON FXISTING DRAWINGS AND MAY NOT BE 100% ACCURATE. DETERMINE EXACT ROUTING OF CONDUIT, POLE, AND PULL BOX LOCATIONS IN THE FIELD. SHOW ON "AS-BUILT" DRAWINGS.
- PP. IF THE CONDUIT FEEDING THE EXISTING POLE MOUNTED FIXTURE ORIGINATES AT THE "SL" PULLBOX, REMOVE THE CONDUIT WHERE FEASIBLE BETWEEN THE POLE AND THE PULLBOX. IF THE CONDUIT FEEDING THE EXISTING POLE MOUNTED FIXTURE DOES NOT ORIGINATE AT THE "SL" PULLBOX BUT INSTEAD LOOPS THROUGH THE POLE BASE AND THE CONDUIT IS A PART OF THE MAIN FEEDER RUN. THE CONDUIT WILL BE CUT BACK TO WHERE THE TWO SIDES OF THE LOOP ARE GENERALLY STRAIGHT AND A NEW SECTION OF CONDUIT IS TO BE SPLICED IN TO MAINTAIN CONTINUITY OF THE MAIN CONDUIT RUN TO ACCOMMODATE NEW CONDUCTORS.
- QQ. EXISTING POLES AND LUMINAIRES SHALL REMAIN THE PROPERTY OF THE CITY. CONTRACTOR SHALL TAKE CARE IN THE HANDLING/REMOVAL OF THE EXISTING POLES AND LUMINAIRES. UPON REMOVAL, CONTRACTOR SHALL DELIVER THE POLES AND LUMINAIRES TO THE C.O.A. PINO YARDS SITE. FOR DISPOSITION CONTACT MR. EDWARD TOLEDO AT 857-8000.
- RR. IF EXISTING METER SERVICE(S) ARE DAMAGED CONTRACTOR SHALL REPLACE THE SERVICE FROM THE MAIN WATER LINE IN TO STREET TO THE METER.
- SS. PHASE I OF THE AREA RE-LIGHTING PROJECT, ON BROADWAY FROM CENTRAL NORTH HAS BEEN COMPLETED. THE LUMINARIES USED ON THAT PROJECT ARE TO BE THE SAME AS FOR THIS PROJECT, POLES AND LIGHTING ASSEMBLIES ARE TO BE AS SPECIFIED ON THE CONTRACT DRAWINGS IN THE LIGHT FIXTURE SCHEDULE.

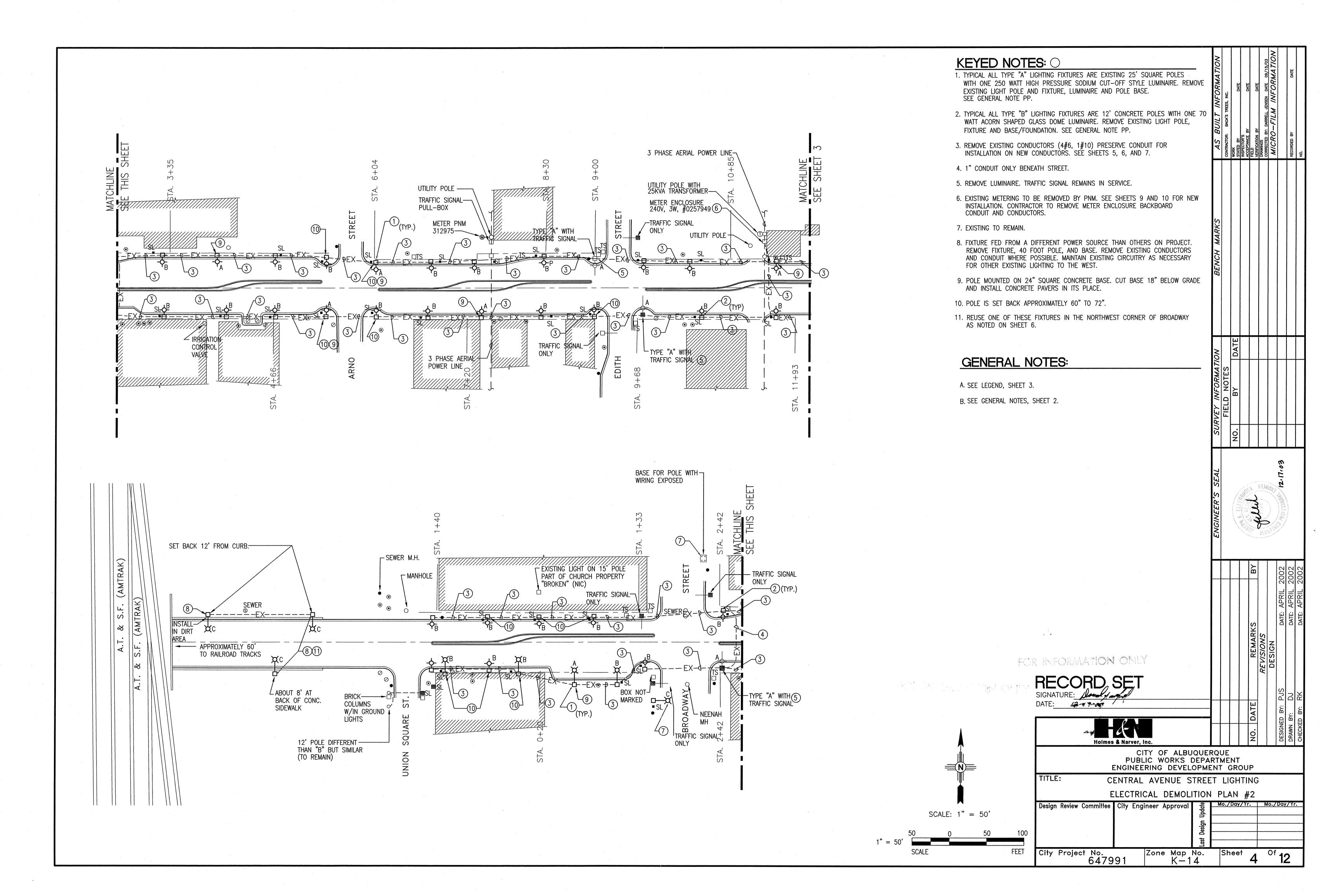
#### A GENERAL DESCRIPTION OF THE POLES AND FIXTURES ARE AS FOLLOWS:

- (A) POLES SHALL BE AMERON TRADITIONAL CONCRETE TYPE WITH FLUTED VICTORIAN STYLE, DIRECT BURIAL, PAINTED #413 GREEN WITH EXPOSED AGGREGATE AND CLEAR ANTI-GRAFFITI COATING. A 4"ODx6" TALL TENON SHALL BE PAINTED TO MATCH THE AAL'S DARK GREEN FINISH.
- (B) FIXTURE SHALL BE ARCHITECTURAL AREA LIGHTING (AAL) PROMENADE SERIES PRMD H4 LUMINARIES. ENTIRE FIXTURE SHALL BE CAST ALUMINUM WITH STAINLESS STEEL INTERNAL AND EXTERNAL HARDWARE. FIXTURE SHALL HAVE THE STANDARD AAL DARK GREEN THERMO SET SUPER TGIC POWDER COAT FINISH. FIXTURE SHALL HAVE A TYPE IV DISTRIBUTION OPTIMIZED FOR A HORIZONTAL 150 WATT PULSE START METAL HALIDE LAMP AND CUSTOM FLAT GLASS LENS. FIXTURE HAS A EPA RATING OF
- (C) FIXTURE ARM TO BE THE TRADITIONAL "SHEPARDS CROOK" WITH DECORATIVE SCROLL. ARM TO BE CONSTRUCTED OF .125" WALL ALUMINUM TUBE AND SLIP OVER A 4"ODx6" TALL ALUMINUM TENON WITH STAINLESS STEFL SCREWS, ARM ASSEMBLY IS TO BE FINISHED WITH THE SAME AAL DARK GREEN POWDER COAT.

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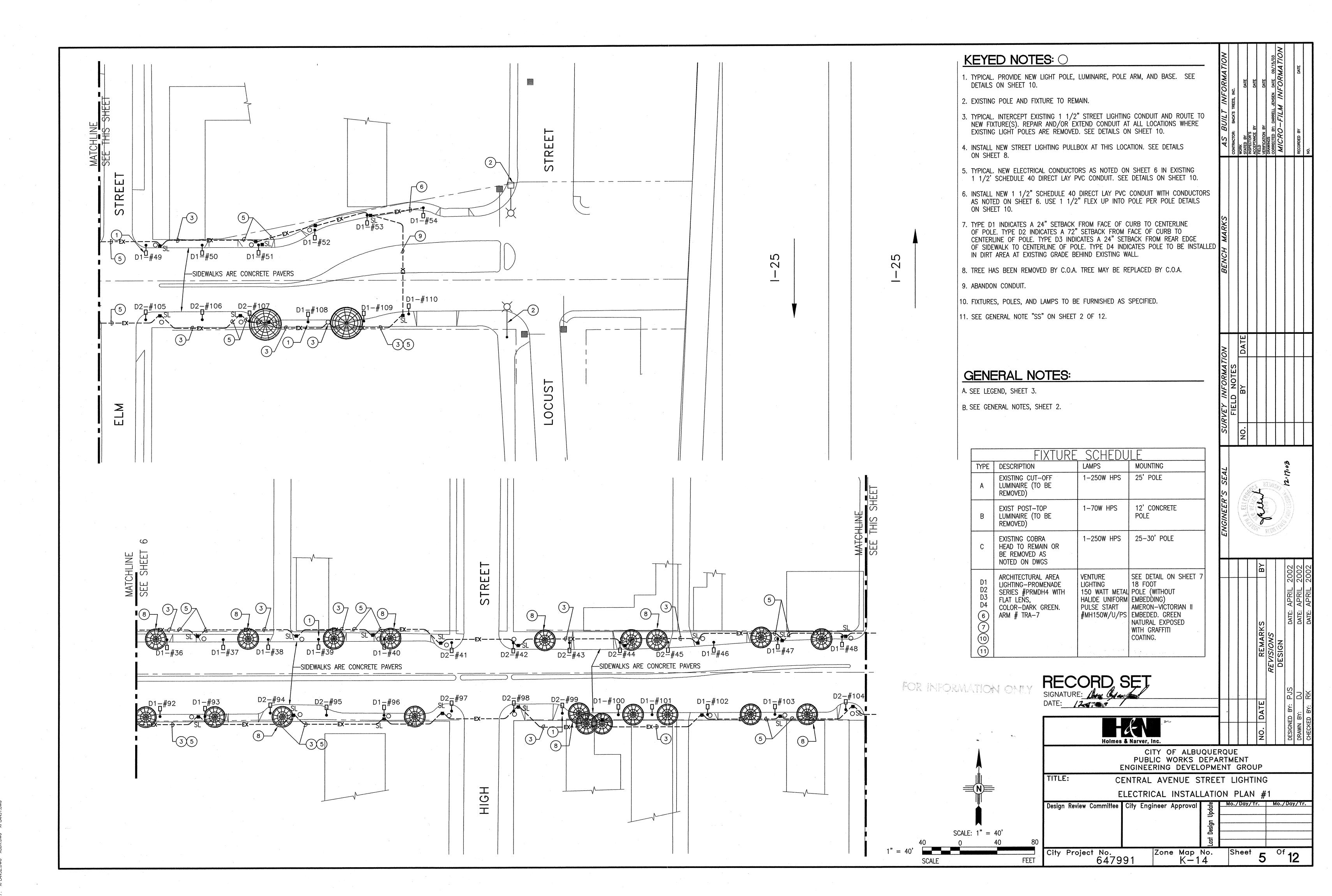
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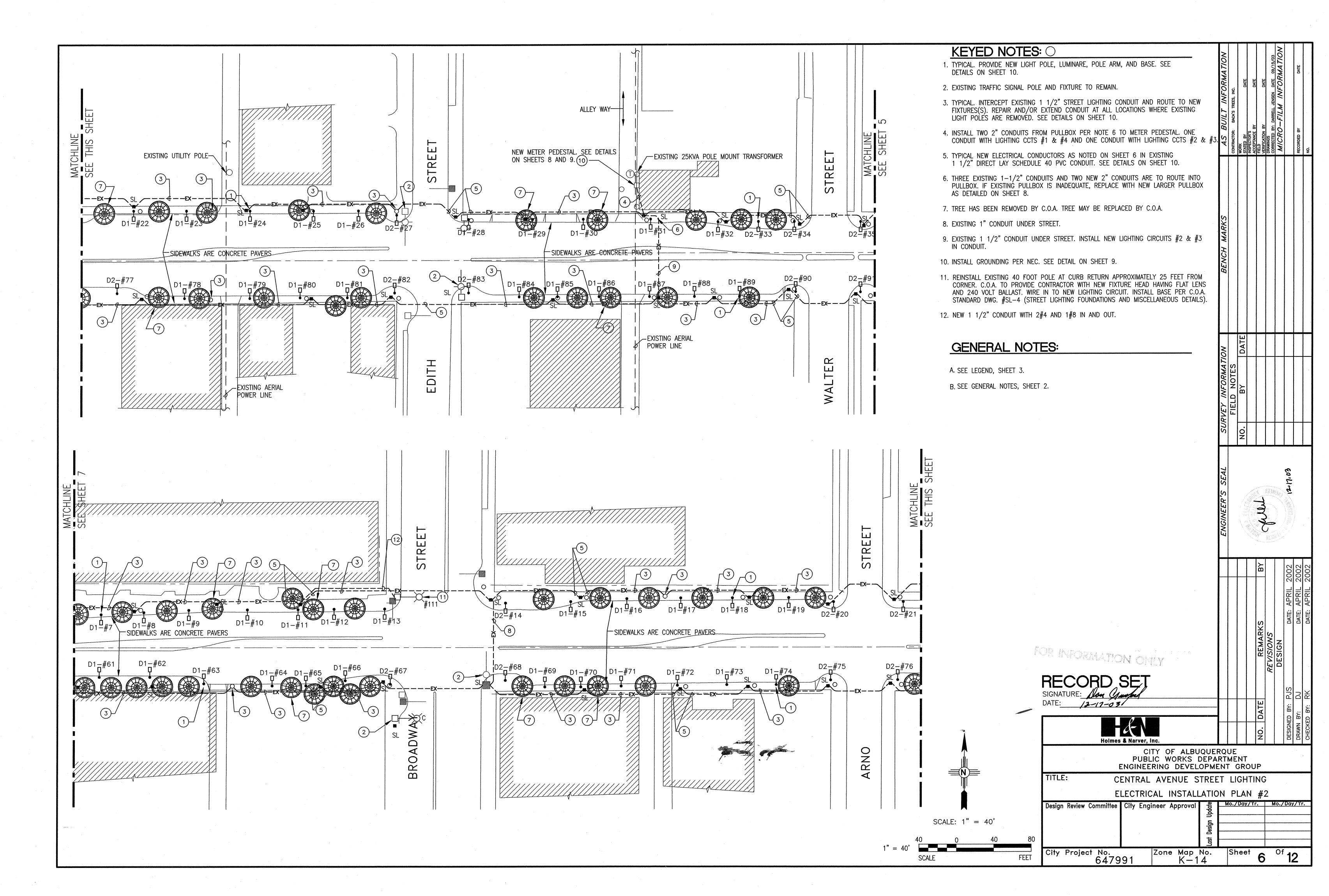




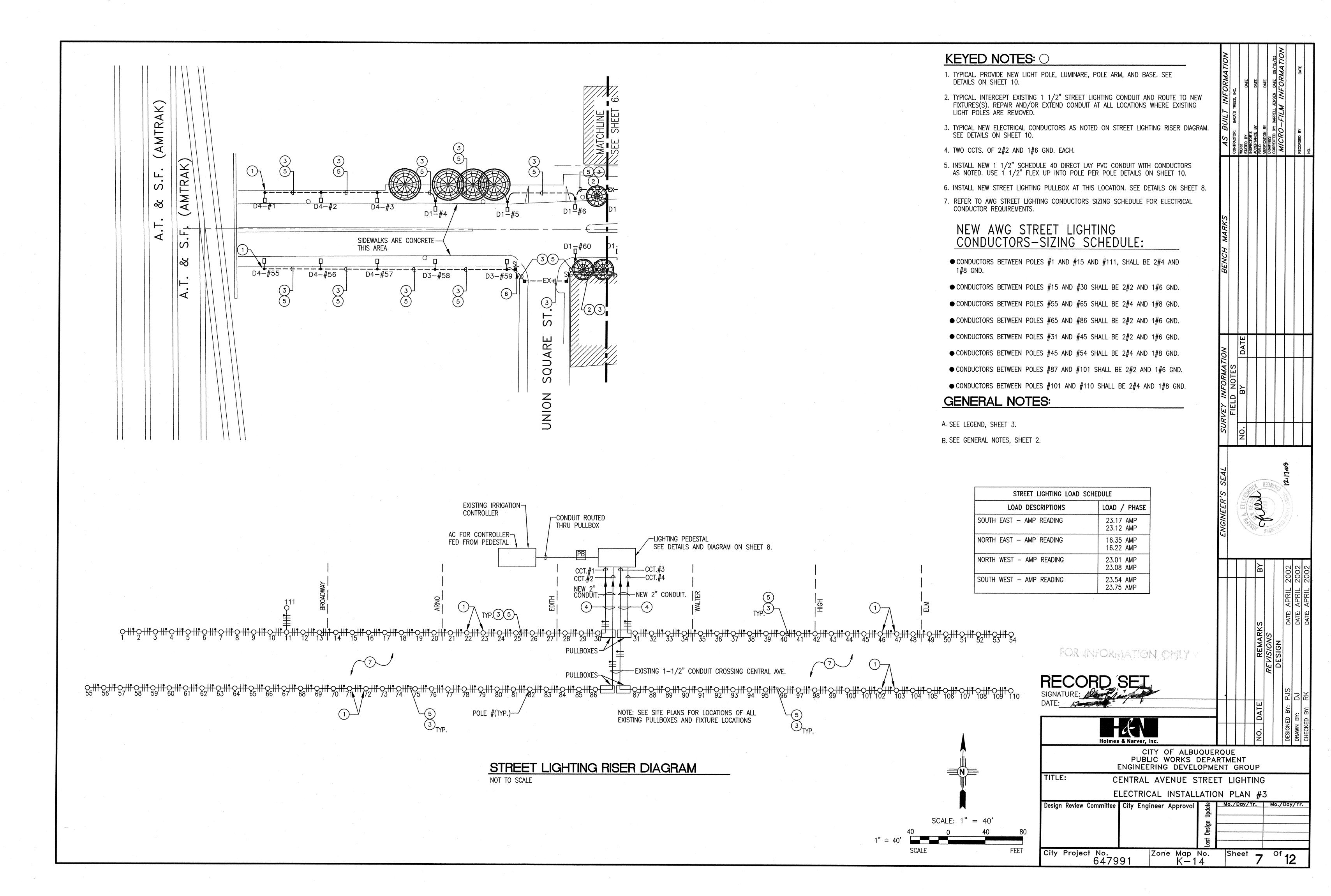
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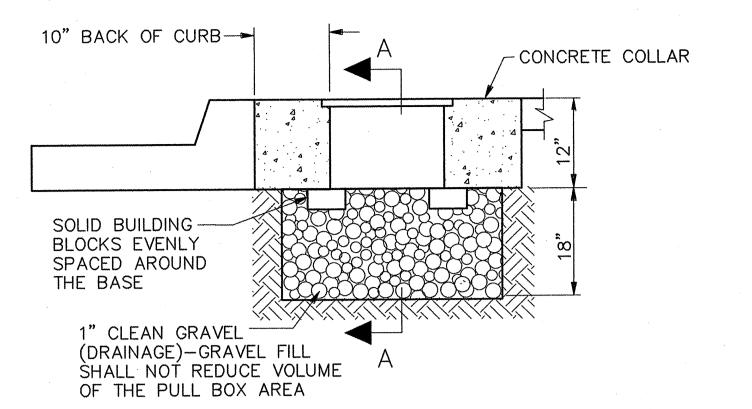
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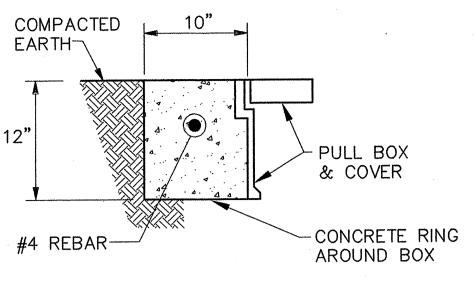




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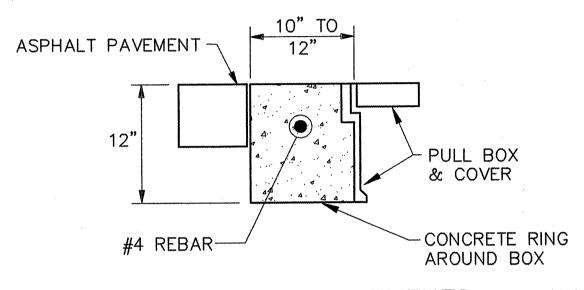


IN COMPACTED EARTH

CONCRETE

#### TYPICAL PULL BOX INSTALLATION

NOTE: SEE "CONCRETE COLLAR DETAIL"



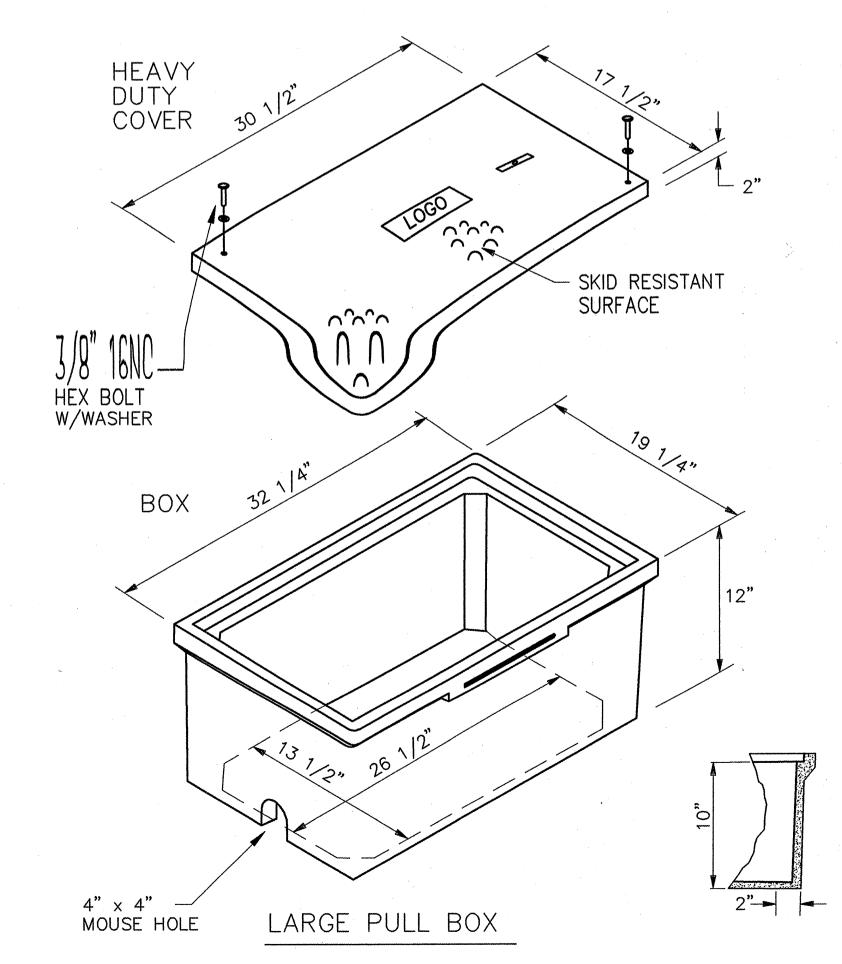
PAVEMENT -CONCRETE RING #4 REBAR-AROUND BOX

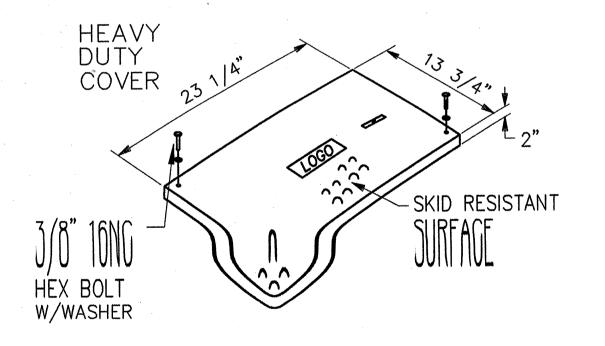
IN ASPHALT PAVEMENTS

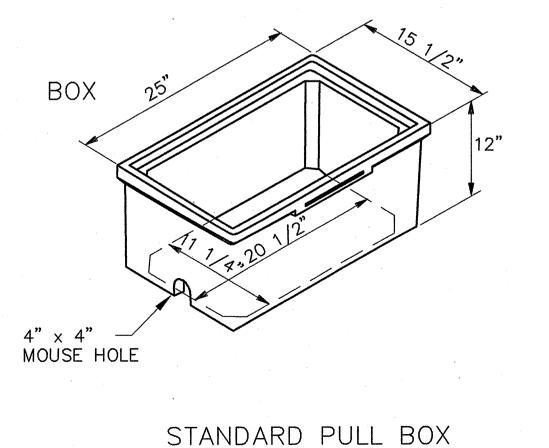
IN CONCRETE PAVEMENTS

#### CONCRETE COLLAR DETAILS

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS







PULL BOX DETAILS

### NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

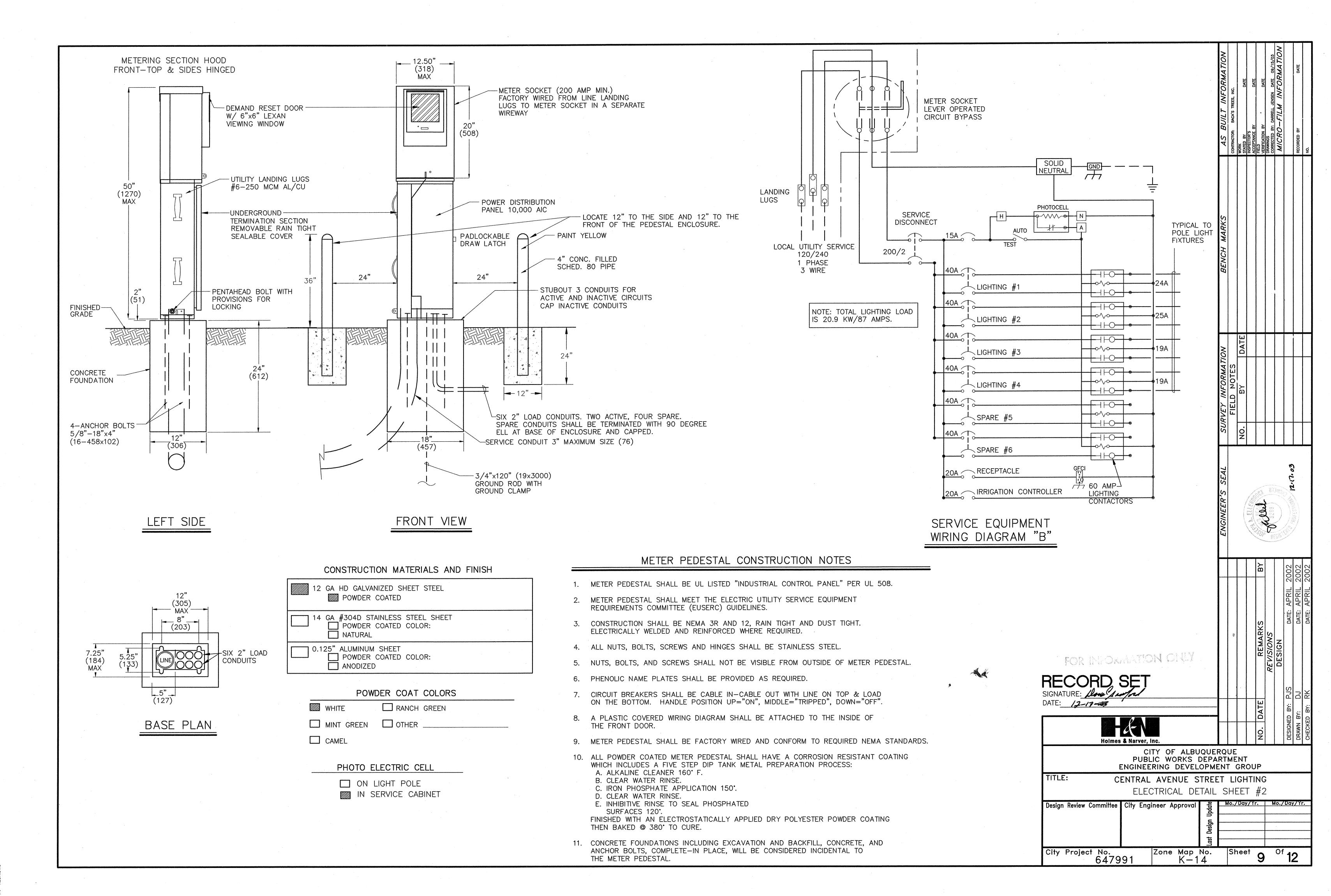
- 1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI.
- 2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE (225 PSI).
- 3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
- 4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
- 5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13

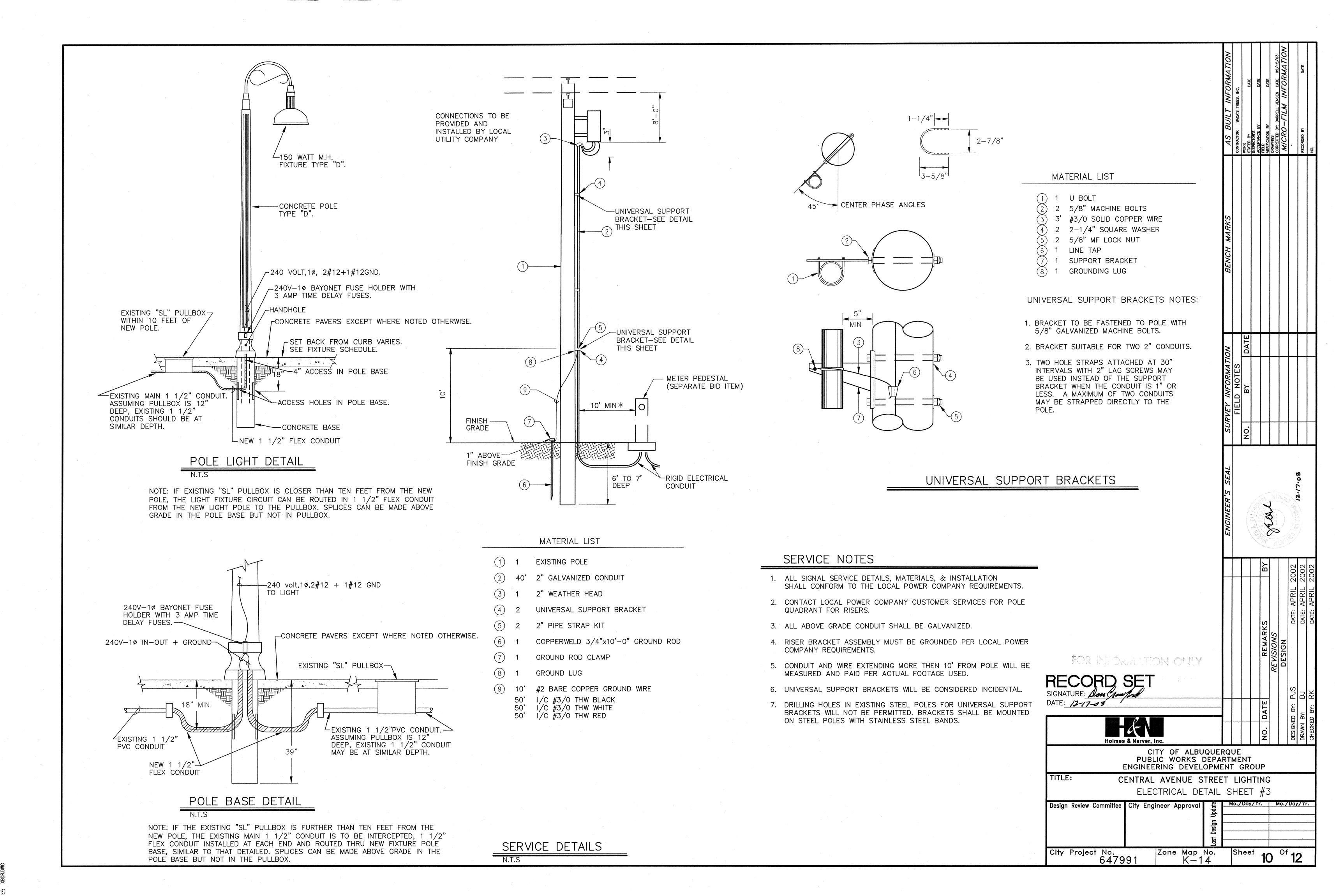
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Design Review Commit	ee City Engineer Approva	Last Design Update	Mo./Day/Yr.	Mo./Day/\
City Project No.	Zone Map	No.	Sheet	Of .

3/4" × 23 1/4" × 2".





#### CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS. LANE WIDTHS. AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY. 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

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21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING: 1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

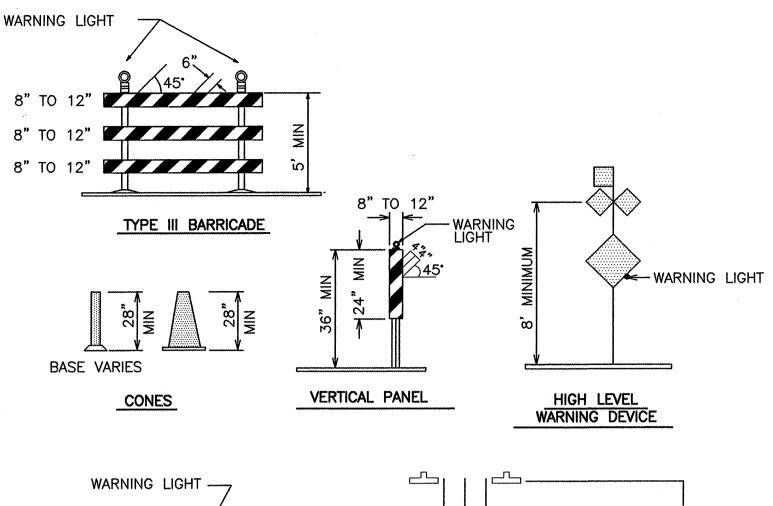
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

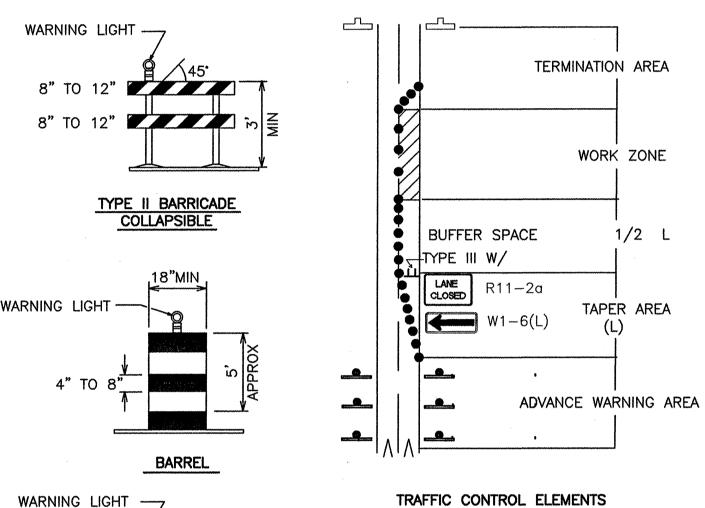
"SPECIAL PROJECT TRAFFIC CONTROL NOTES"

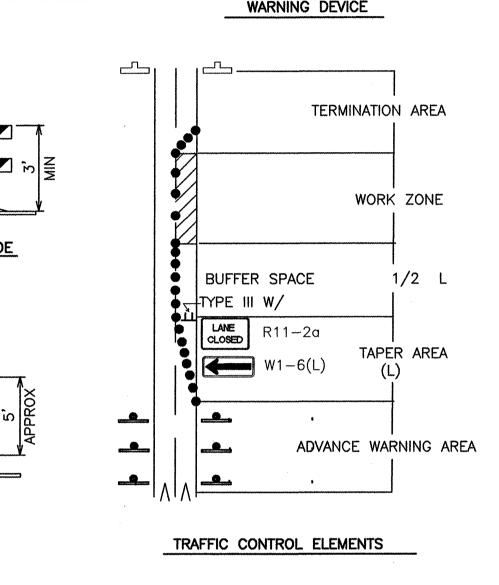
28. NO LANE CLOSURES ON WESTBOUND CENTRAL AVENUE WILL BE ALLOWED FROM 6:00 A.M. TO 9:00 A.M., MONDAY THROUGH FRIDAYS.

29. NO LANE CLOSURES ON EASTBOUND CENTRAL AVENUE WILL BE ALLOWED FROM 3:00 P.M. TO 7:00 P.M., MONDAY THROUGH FRIDAYS.

30. CONTRACTOR SHALL LIMIT THE LENGTH OF LANE CLOSURES ON CENTRAL AVENUE TO NO MORE THAN TWO BLOCKS AT A TIME.







TAPER LENGTH TYPE OF TAPER **UPSTREAM TAPER:** MERGING TAPER L MINIMUM 1/2 L MINIMUM SHIFTING TAPER 1/2 L MINIMUM SHOULDER TAPER TWO-WAY TRAFFIC TAPER 100 FEET MAXIMUM 100 FEET PER LANE DOWNSTREAM TAPERS

TAPER CRITERIA

LEGEND

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL

NUMBER

DEVICES FOR TAPER

13

13

13

MAXIMUM DEVICE

SPACING IN FEET

ALONG TAPER

30

35

45

50

55

FROM LAST

SIGN TO TAPER

FIELD 1

SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET

TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

125

180

600

RECOMMENDED SIGN SPACING(D) FOR

MINIMUM DISTANCE IN FEET

10 X SPEED LIMIT 10 X SPEED LIMIT

ADVANCE WARNING SIGN SERIES

BETWEEN

SIGNS

225 245

BARRICADE - TYPE I, TYPE II, OR BARREL

EQUAL TO THE STREET LIMIT OF THE STREET

TAPER LENGTH - SEE CHART BELOW

165

295

450 495 540

550 | 605 | 660 |

500 550

BARRICADE - TYPE III

VERTICAL PANEL

FLAGMAN POSITION

150

205

SPEED

MILES

PER HOUR

WARNING SIGN

WORK AREA

SPEED

LIMIT

(MPH)

30

45

#### TAPER LENGTH COMPUTATION

SPEED LIMIT 40 MPH OR LESS

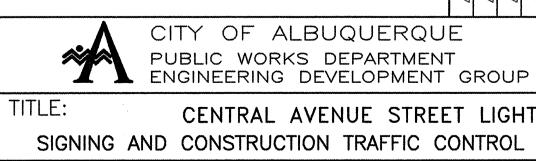
40 MPH OR GREATER  $L = W \times S$ 

L = TAPER LENGTH W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

RECORD, SET

DATE: 12-17-7

FOR INFORMATION ONLY

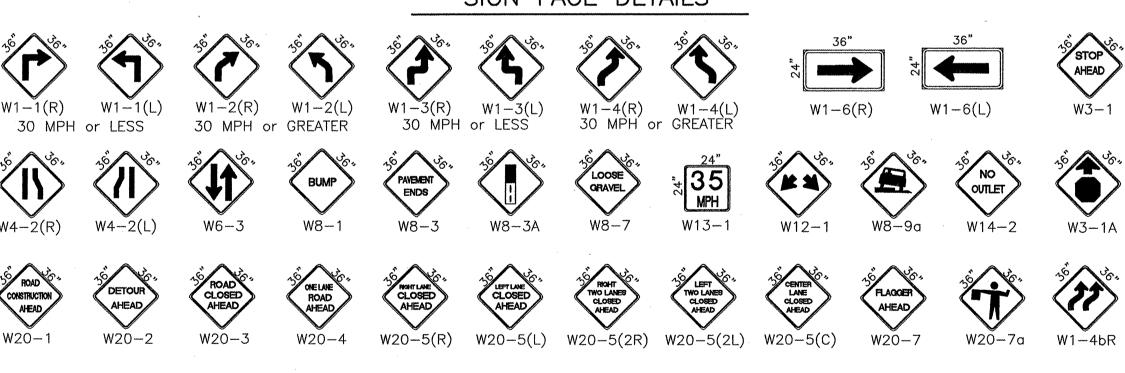


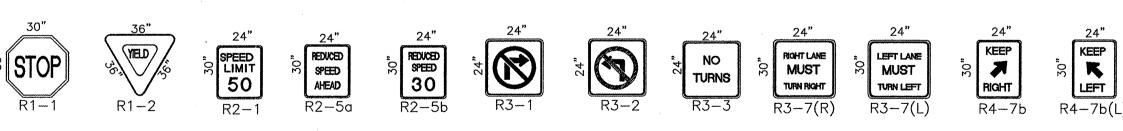
CENTRAL AVENUE STREET LIGHTING SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS MO./DAY/YR. DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL MO./DAY/YR. CITY PROJECT NO. ZONE MAP NO. 647991 K14

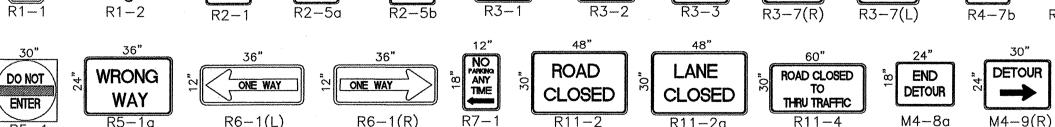
#### SIGN FACE DETAILS

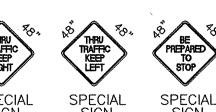
8" TO 12"

TYPE I BARRICADE COLLAPSIBLE

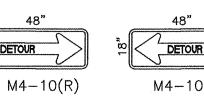


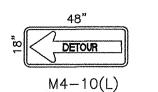






ALL CONSTRICTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.





DETOUR

**←** 

M4-9(L)

END

CONSTRUCTION

G20-2

