CONSTRUCTION PLANS FOR NW PRYOR ROAD SIGNAL IMPROVEMENTS & LANE WIDENING STREETS OF WEST PRYOR

JULY 2019

LEE'S SUMMIT, MISSOURI

ELECTRIC- SERVICE NATHAN MICHAEL

KATIE DARNELL (816) 969-2247 Katie.Darnell@spireenergy.com

WATER, SANITARY/STORM SEWER SERVICE CITY OF LEE'S SUMMIT

KENT MONTER (816) 969-1900 Kent.Monter@cityofls.net

DIG - DRILL - BLAST 1-800-344-7483 (TOLL FREE)

STEVE BAXTER (913) 643-1928 Steve.Baxter@charter.com COMMUNICATION SERVICE COMCAST RYAN ALKIRE (816) 795-2218 Ryan.Alkire@cable.comcast.com COMMUNICATION SERVICE GOOGLE FIBER BECKY DAVIS (913) 725-8745 KC-Google-UC@google.com

rebeccadavis@google.com

COMMUNICATION SERVICE

CARRIE CILKE

(816) 703-4386

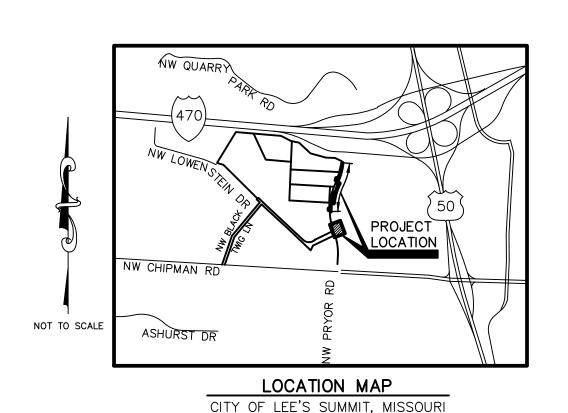
MISSOURI ONE CALL SYSTEM, INC.

UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

CAUTION - NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AN



CITY APPROVAL

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APPROVED THIS _____ _DAY OF_ OWNER: MATT PENNINGTON APPROVED THIS ___ _DAY OF _

OWNER: STREETS OF WEST PRYOR, LLC 7200 WEST 132ND STREET OVERLAND PARK, KS 66213 CONTACT: MATT PENNINGTON email: matt@drakekc.com

PREPARED BY:
KAW VALLEY ENGINEERING, INC. 2319 N. JACKSON JUNCTION CITY, KS 66441 785-762-5040 CONTACT: LEON D OSBOURN EMAIL: Ido@kveng.com

7200 WEST 132ND STREET AGENT: DAVID N. OLSON

email: daveolson@monarchprojectllc.com VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.

BM #1: CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARKING LOT AT EAST DRIVE ENTRANCE. BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET 25'± EAST OF CURE

LINE" AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD.

R o w EETS OF NW PRYOF SUMMIT, I

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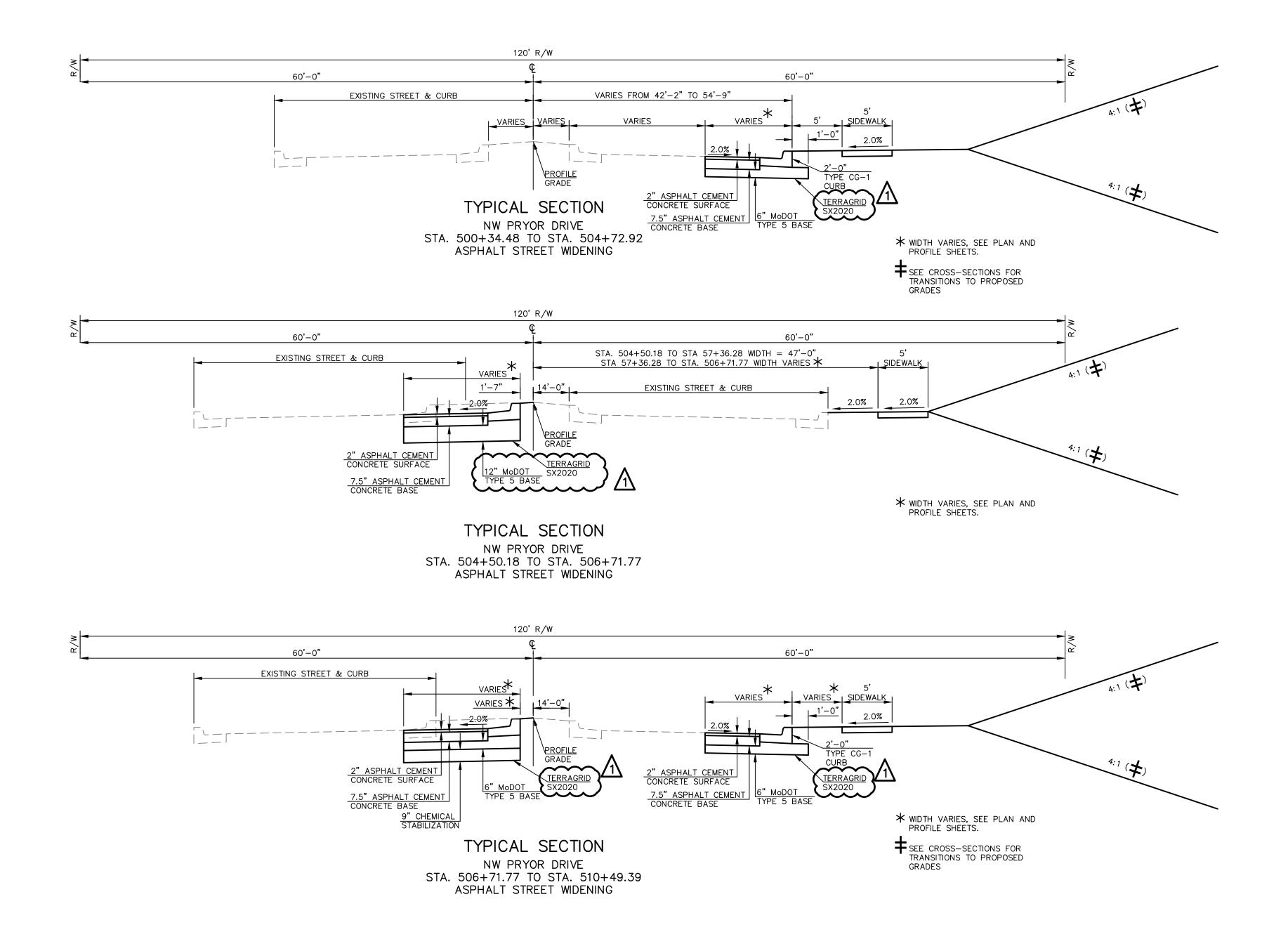
LEON D. OSBOURN ENGINEER MO # 021726

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THIS DRAWOND STROLL MATE BE HATSHEDD BY CAN'S TREESOM NITRON OR COORDINATION FOR INDICATION OF KAW VALLEY ENGINEERING, INC.



CONSTRUCTION NOTES:

1. EXCESS EXCAVATION SHALL BE DEPOSITED IN AREAS AS DIRECTED BY THE OWNER.

2. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SURFACING ON STREETS NEEDED TO BE TRAVELED UPON BY EQUIPMENT DURING CONSTRUCTION, AND IF DAMAGED, HE SHALL REPLACE THE SURFACING AND REPAIR THE STREET TO THE ORIGINAL CONDITION. NO TYPE OF EARTH MOVING EQUIPMENT WILL BE PERMITTED TO HAUL ON OR OVER ANY EXISTING

3. THE CONTRACTOR SHALL TAKE CARE IN PROTECTING EXISTING TREES AND SHRUBS OUTSIDE OF THE PROPOSED CONSTRUCTION. CARE SHALL BE TAKEN NOT TO DISTURB LAWNS OR EXISTING STRUCTURES OUTSIDE OF THE CONSTRUCTION LIMITS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

5. CONTRACTOR SHALL SEED ALL DISTURBED AREAS IN ACCORDANCE TO REQUIREMENTS OF TECHNICAL SPECIFICATIONS. BUILDING LOTS WILL NOT REQUIRE SEEDING BUT ALL SLOPES AND BACKFILL BEHIND CURBS SHALL BE SEEDED WITHIN RIGHT-OF-WAY LIMITS, AND ON SLOPES OF EMBANKMENTS. AREAS SHALL BE SEEDED WITHIN 28 DAYS OF FINISH GRADING OR AS DIRECTED

6. JOINT SPACING FOR CONCRETE PAVEMENT SHALL BE MODIFIED TO MEET THE CONTRACTOR'S CONSTRUCTION EQUIPMENT AND METHODS OF POURING. CONTRACTOR TO DRILL AND INSERT EPOXY-COATED DOWEL BARS INTO CONSTRUCTION JOINTS AND HEADERS. CONTRACTOR TO SAW-CUT CLEAN VERTICAL EDGE AT JOINT LOCATION. SAWED CONTRACTION JOINTS SHALL BE REQUIRED ON MAXIMUM 12'-0" CENTERS.

7. CONTRACTOR SHALL SUBMIT A JOINTING PLAN AND RECEIVE APPROVAL FROM THE ENGINEER AND CITY PRIOR TO CONCRETE PAVING OPERATIONS.

8. ALL SANITARY SEWER, WATER MAINS AND STORM SEWER UNDER PAVEMENTS SHALL BE BACKFILLED WITH MODOT TYPE 5 AGGREGATE IN TRENCHES GREATER THAN 24" AND FLOWABLE IN TRENCHES LESS THAN 24".

9. CONTRACTOR SHALL INSTALL SILT FENCE TO PREVENT SEDIMENT FROM LEAVING CONSTRUCTION LIMITS. SILT FENCE IS REQUIRED AT BOTTOM OF SLOPE ON ALL EMBANKMENTS AND AT DISCHARGE POINTS OF STREETS, STORM SEWER INLETS AND PIPE END SECTIONS.

10. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.

11. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON-SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.

12. CONTRACTOR SHALL COMPLETE ROUGH SITE AND STREET GRADING PRIOR TO INSTALLATION OF UTILITIES.

13. EROSION CONTROL SEDIMENT FENCE SHALL BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT SHALL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

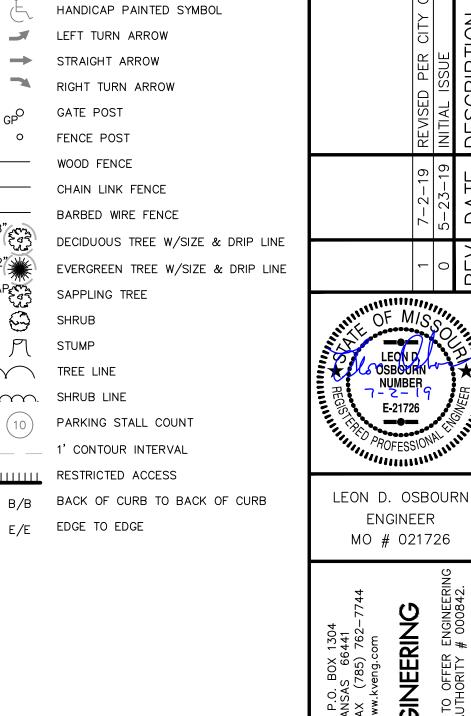
14. CUT AND FILL SECTIONS ARE TYPICAL ONLY. NEITHER ALTERNATE PAVEMENT TYPE IS SPECIFIED FOR EXCLUSIVE USE WITH CUT OR FILL SECTIONS. REFER TO SPECIFICATIONS FOR INFORMATION ON FLY ASH TREATED SUBGRADE, CRUSHED AGGREGATE BASE COURSE, AND PAVEMENT UNDERDRAINS.

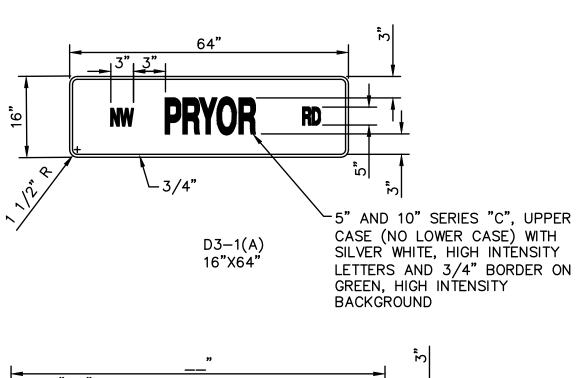
15. WHERE CURB AND GUTTER IS MONOLITHIC WITH THE STREET, THE CURVE SHALL BE POURED AT THE SAME DEPTH AS THE STREET.

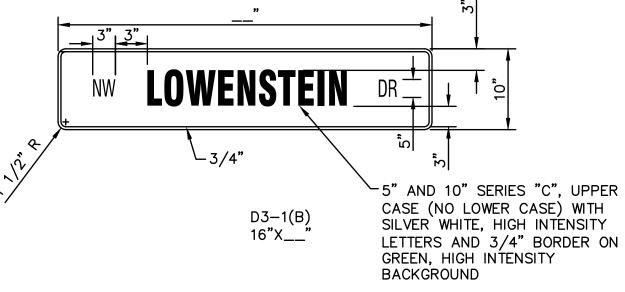
16. UNLESS SPECIFIED OTHERWISE, KCMMB 4K IS REQUIRED FOR ALL CONCRETE.

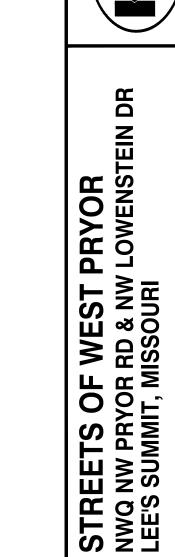
20. THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT SHALL GOVERN THE CONSTRUCTION OF ALL PUBLIC IMPROVEMENTS FOR THIS PROJECT.

LEGEND SECTION CORNER, ORIGIN UNKNOWN UNLESS STORM SEWER MANHOLE OTHERWISE NOTED TELEPHONE SIGN O MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED TELEPHONE MANHOLE (D) DESCRIBED TELEPHONE PEDESTAL (M) MEASURED UNDERGROUND TELEPHONE LINE (C) CALCULATED □ SPLICE BOX (P) PLATTED FIBER OPTIC CABLE SIGN STREET SIGN FOC ---- UNDERGROUND FIBER OPTIC CABLE TRAFFIC CONTROL POLE □ UTILITY POLE PULL BOX UTILITY POLE W/ LIGHT FLAG POLE ■ UTILITY POLE W/TRANSFORMER MAILBOX □ LIGHT POLE ADA HANDICAP SIGN ← DEADMAN ANCHOR HANDICAP PAINTED SYMBOL OVERHEAD UTILITY - # LINES ■ LEFT TURN ARROW AIR CONDITIONING UNIT → STRAIGHT ARROW E ELECTRIC PEDESTAL RIGHT TURN ARROW E ELECTRIC METER GPO GATE POST ——— E ——— UNDERGROUND ELECTRIC LINE FENCE POST UTILITY MANHOLE --- WOOD FENCE CTV CABLE TV SIGN CABLE TV PEDESTAL BARBED WIRE FENCE GAS SIGN G GAS METER DECIDUOUS TREE W/SIZE & DRIP LINE ----- G ----- UNDERGROUND GAS LINE EVERGREEN TREE W/SIZE & DRIP LINE GTS GAS CATHODIC PROTECTION STATION SAPPLING TREE WATER LINE P STUMP ⊗ WATER LINE GATE VALVE WS WATER SPIGOT TREE LINE W WATER METER (10) PARKING STALL COUNT WELL ____ 970 ___ 1' CONTOUR INTERVAL TIRE HYDRANT S SANITARY SEWER MANHOLE | RESTRICTED ACCESS SANITARY SEWER LINE B/B BACK OF CURB TO BACK OF CURB







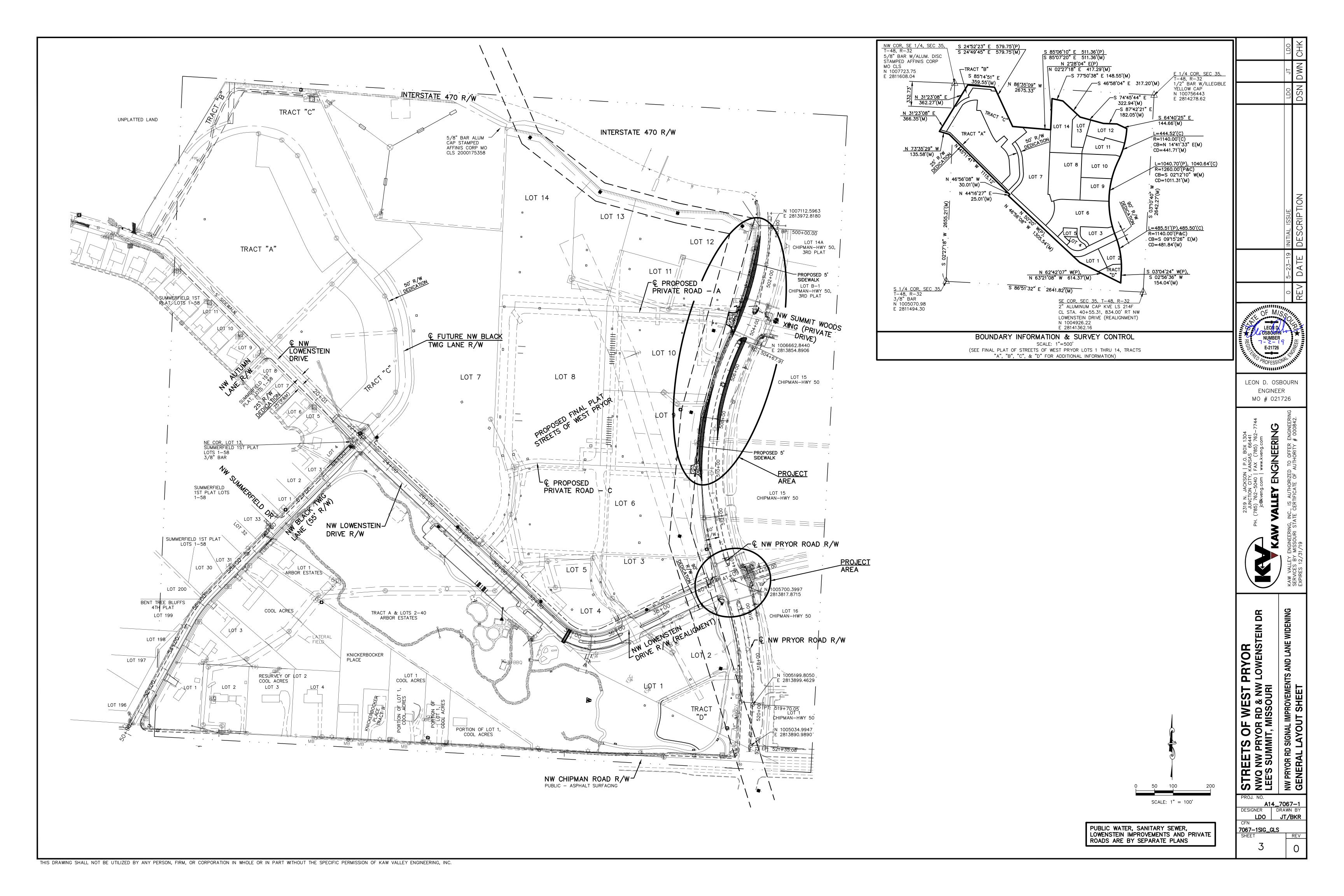


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PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION. SAFETY NOTICE TO CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE

ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS

UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS

ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS

OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE

THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT

CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH

TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED

BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION

LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN

FEDERAL REGULATIONS. CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

GENERAL NOTES:

STATE REGULATIONS.

CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE

4. ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN

5. ALL HAZARDOUS ASBESTOS AND OTHER HAZARDOUS MATERIALS MUST BE IDENTIFIED AND REMOVED PRIOR TO ANY BUILDING DEMOLITION, IN STRICT

CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR

AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED

SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS

SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE

2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND

3. DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY

PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND

"TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE

CONDITIONS SHOWN WERE AS OF MARCH 30, 2018.

6. CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE

CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

11. KCP&L TRANSMISSION MAIN SHALL REMAIN IN PLACE DURING DEMOLITION. FOLLOW ALL KCP&L REQUIREMENTS CONCERNING WORK IN THEIR EASEMENT AND IN PROXIMITY

7. EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED BY KANSAS CITY POWER & LIGHT.

8. TREE LINES AND INDIVIDUAL TREES SHOWN ARE BASED ON ORIGINAL SURVEY. INITIAL CLEARING AND GRUBBING HAS BEEN COMPLETED. CONTRACTOR SHALL REMOVE

ANY ADDITIONAL TREES AND SHRUB IN AREAS INDICATED FOR GRADING AND DEMOLITION. 9. COORDINATE WITH KAW VALLEY ENGINEERING PRIOR TO REMOVAL OF SECTION

MONUMENTS AND PROPERTY PINS. KAW VALLEY ENGINEERING WILL RESET NECESSARY MONUMENTS WITHIN THE DISTURBED AREAS FOLLOWING DEMOLITION. CARE SHALL BE TAKEN TO PRESERVE PROPERTY PINS ALONG THE OUTSIDE PERIMETER OF THE SITE.

10. CONTRACTOR SHALL OBTAIN DEMOLITION PERMITS FOR EACH INDIVIDUAL HOUSE WITHIN THE AREA SHOWN. ALL SERVICE LINE SHUT-OFFS, WELL PLUGGING, SEPTIC TANK REMOVALS AND OTHER UTILITY REMOVALS SHALL BE HANDLED IN ACCORDANCE WITH STATE AND CITY CODES.

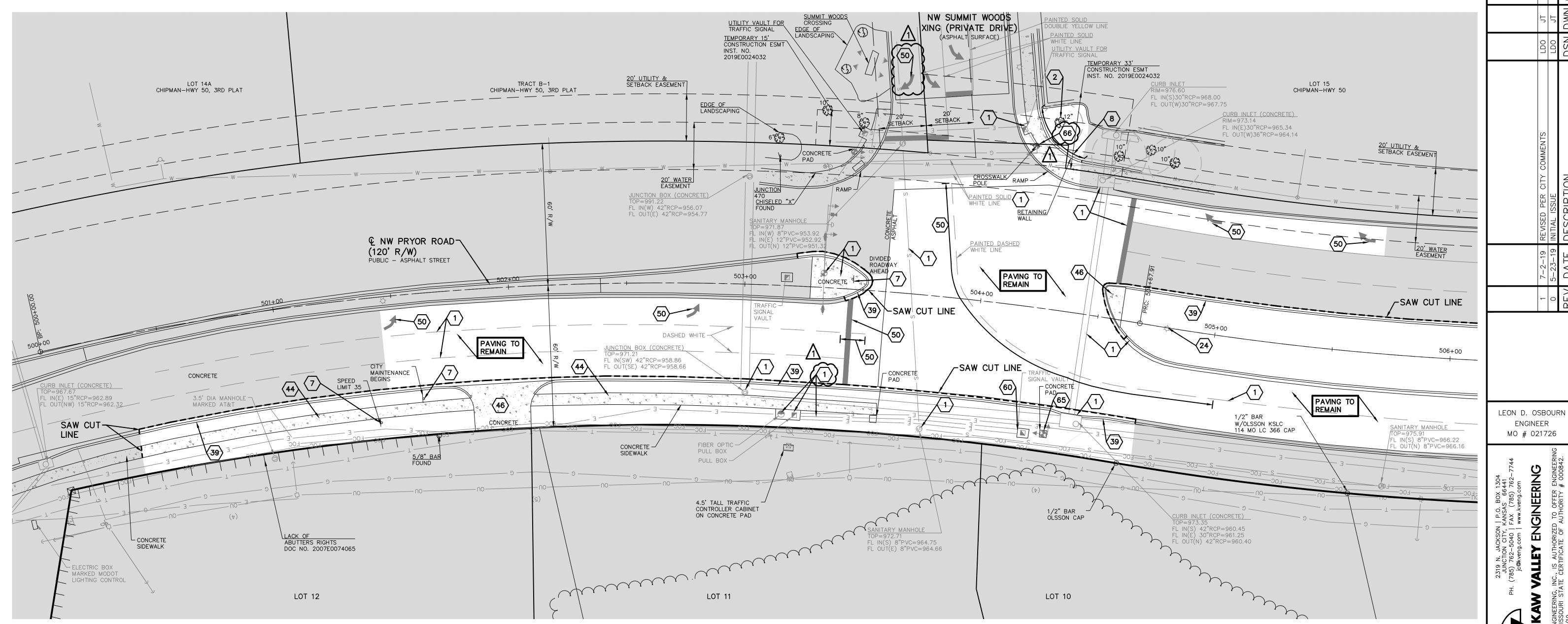
TO THEIR LINES, INCLUDING PROTECTION OF POLES AND SAFE WORKING DISTANCES FROM

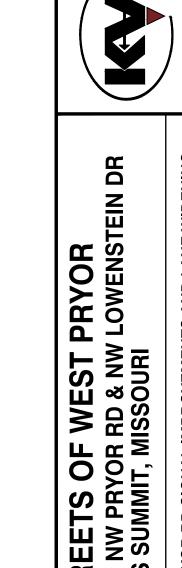
(1) TO REMAIN $\langle 2 \rangle$ REMOVE TREE (SEE PLANS) (3) TREES TO REMAIN SCALE: 1" = 20'(7) SIGN TO BE RELOCATED (8) PORTION OF RETAINING WALL TO BE REMOVED (SEE PLANS) (11) TO BE REMOVED BY ELECTRIC COMPANY (24) STREET LIGHT TO BE RELOCATED (SEE PLANS) (39) CONTRACTOR TO REMOVE (CURBS) (44) CONTRACTOR TO REMOVE (SIDEWALK) CONTRACTOR TO REMOVE (PAVING)

(50) CONTRACTOR TO SAND BLAST STRIPING (SEE PAVEMENT MARKING SHEETS)

(SFF PLANS) $m{\langle}66m{\rangle}$ traffic pole to be removed and returned to the city of lees summit LEGEND NOT A PART OF DEMOLITION ACTIVITIES <u>DATUM BENCHMARK:</u> VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL. --- SAW CUT LIMITS **BENCHMARKS:**

DEMOLITION NOTES:





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7067-1SIG_DEMO BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER

BM #1: CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT

AREA INLET, 25'± EAST OF CUBB LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90°

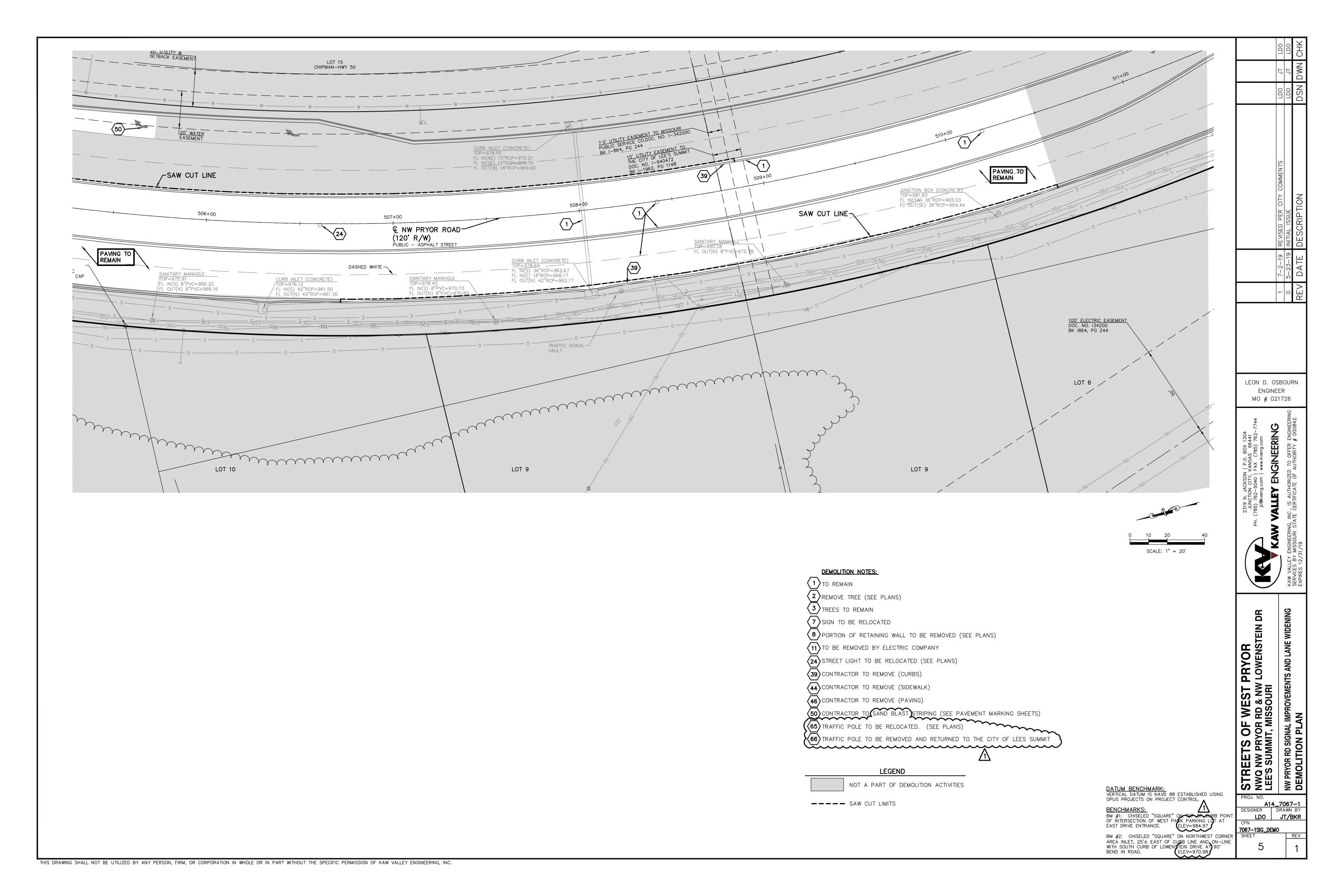
(ELEV=984.97

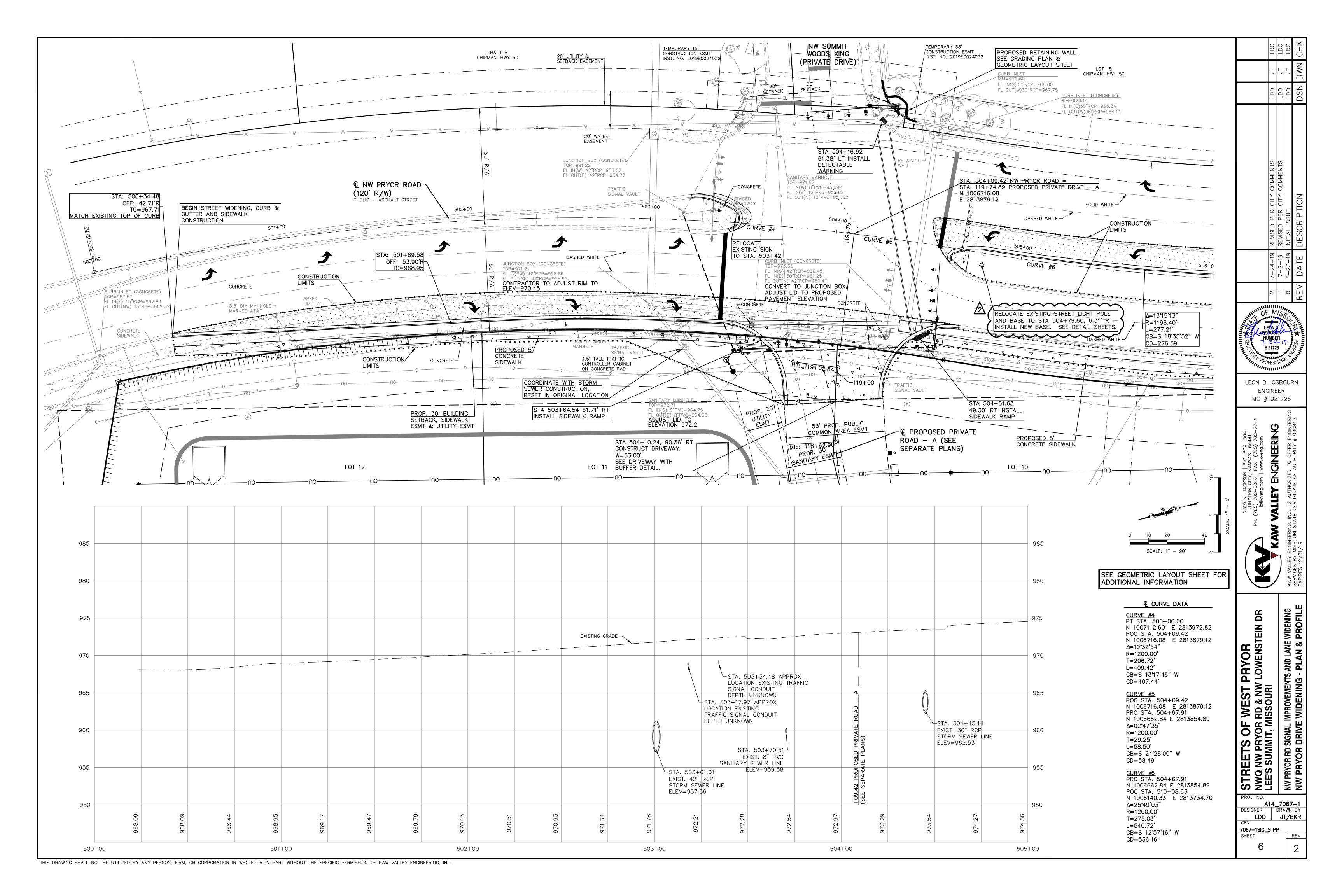
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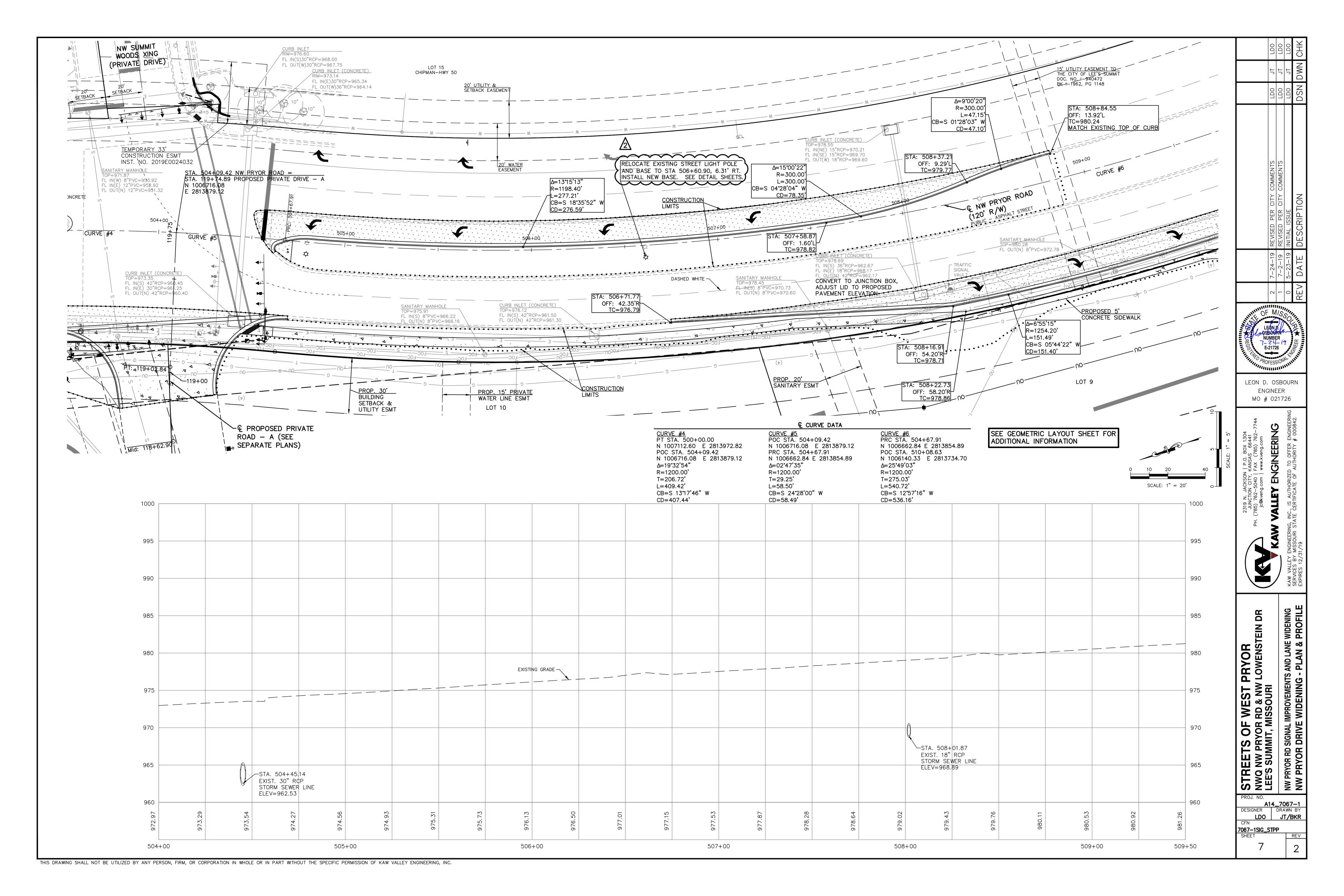
EAST DRIVE ENTRANCE.

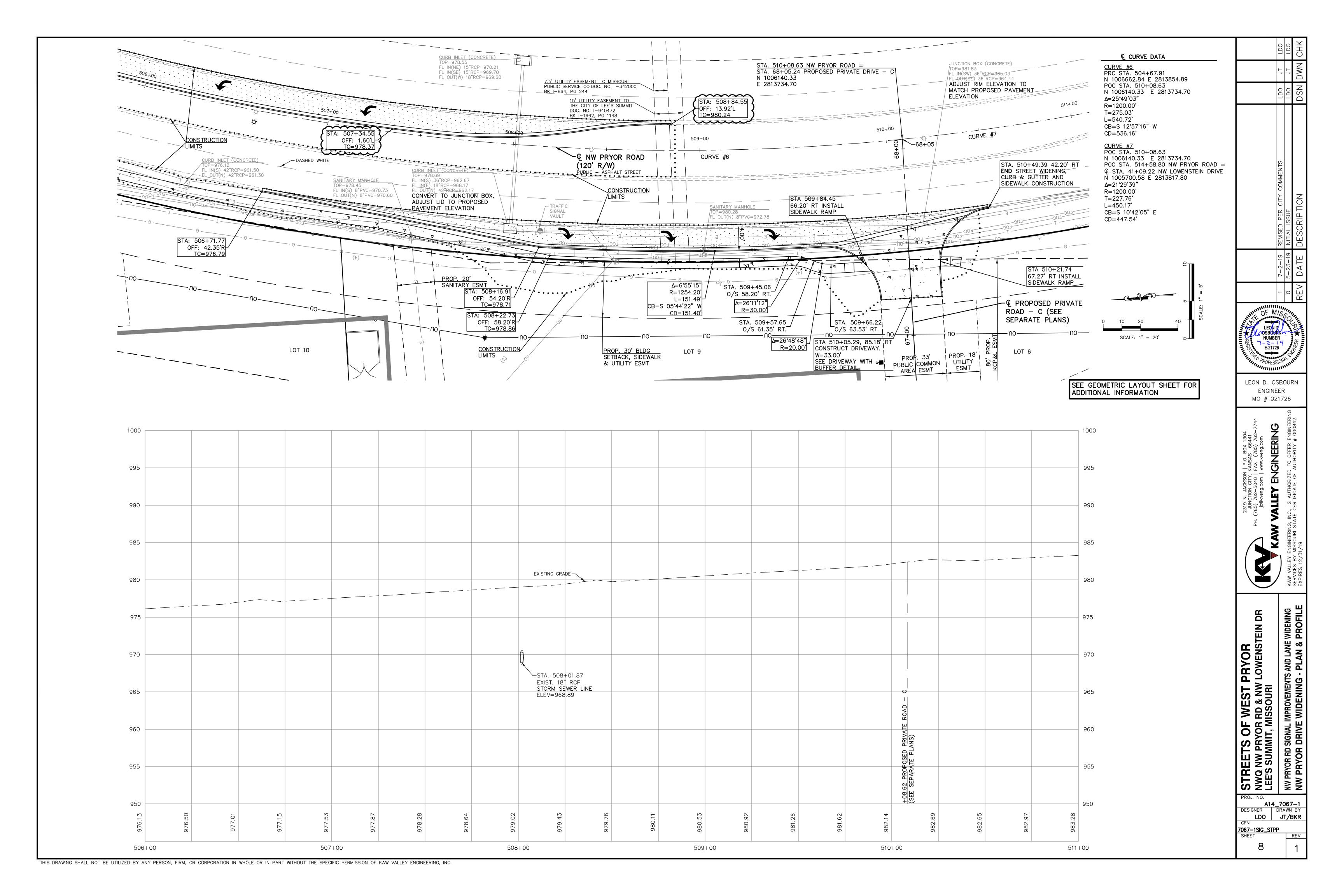
BEND IN ROAD.

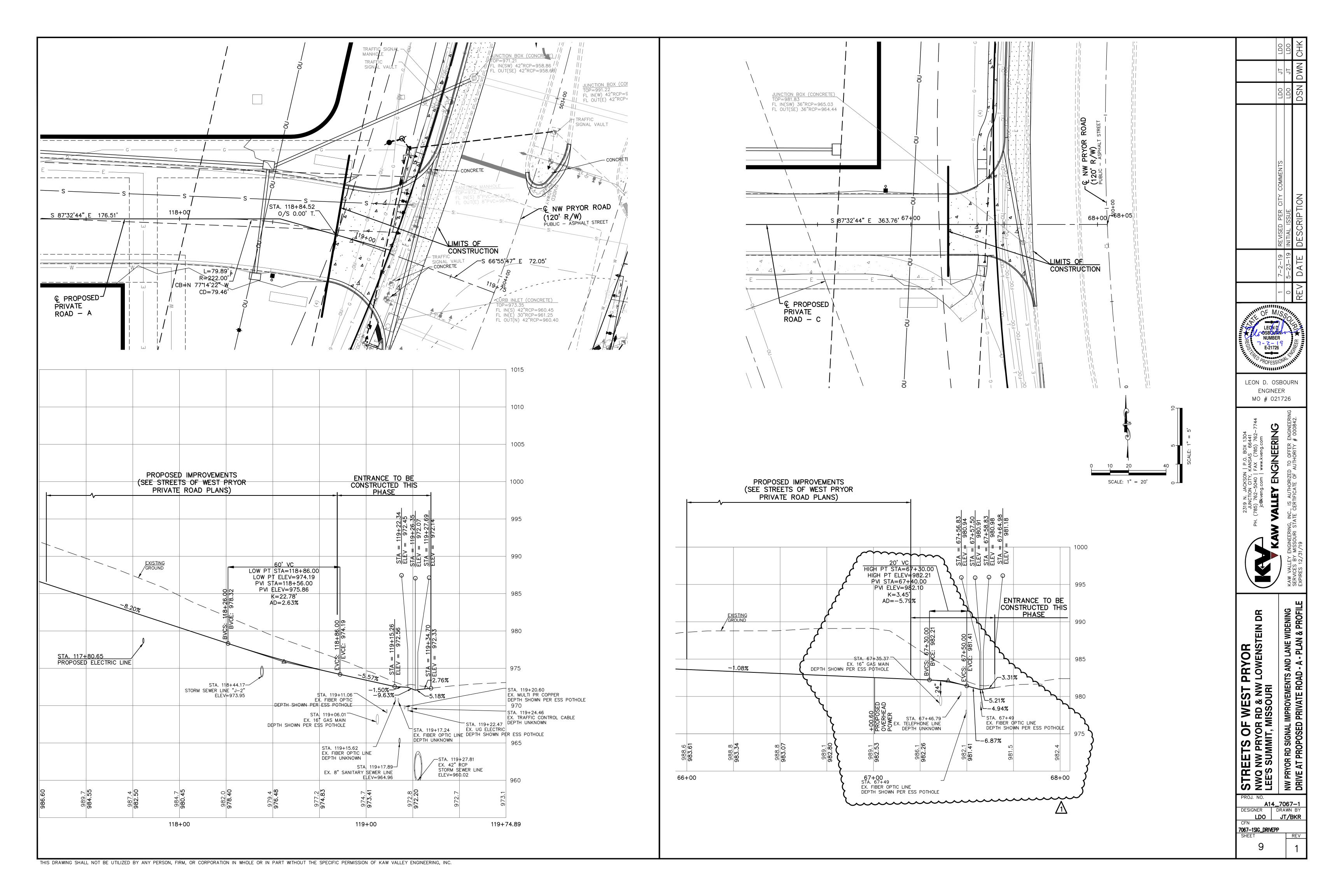
BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.

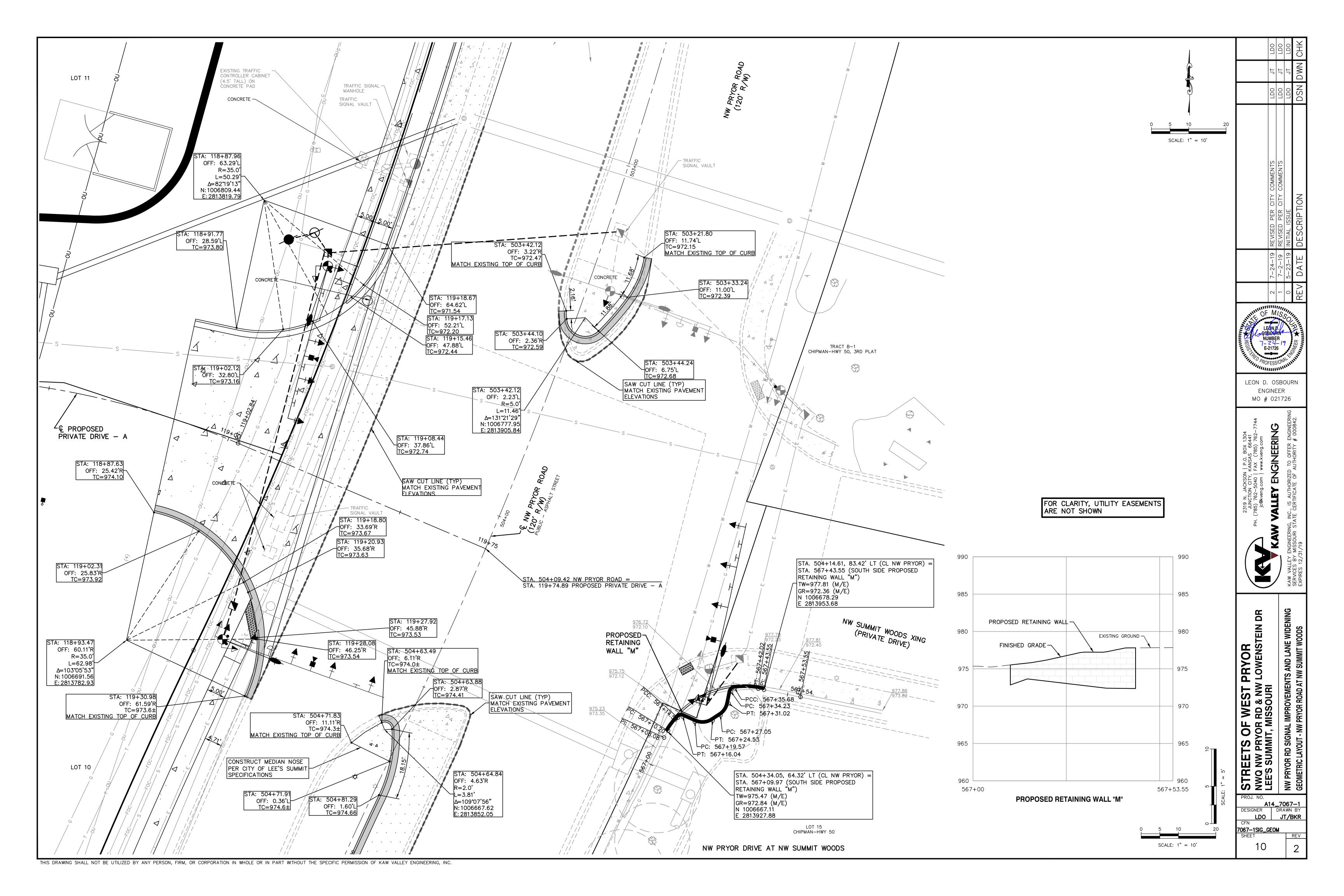


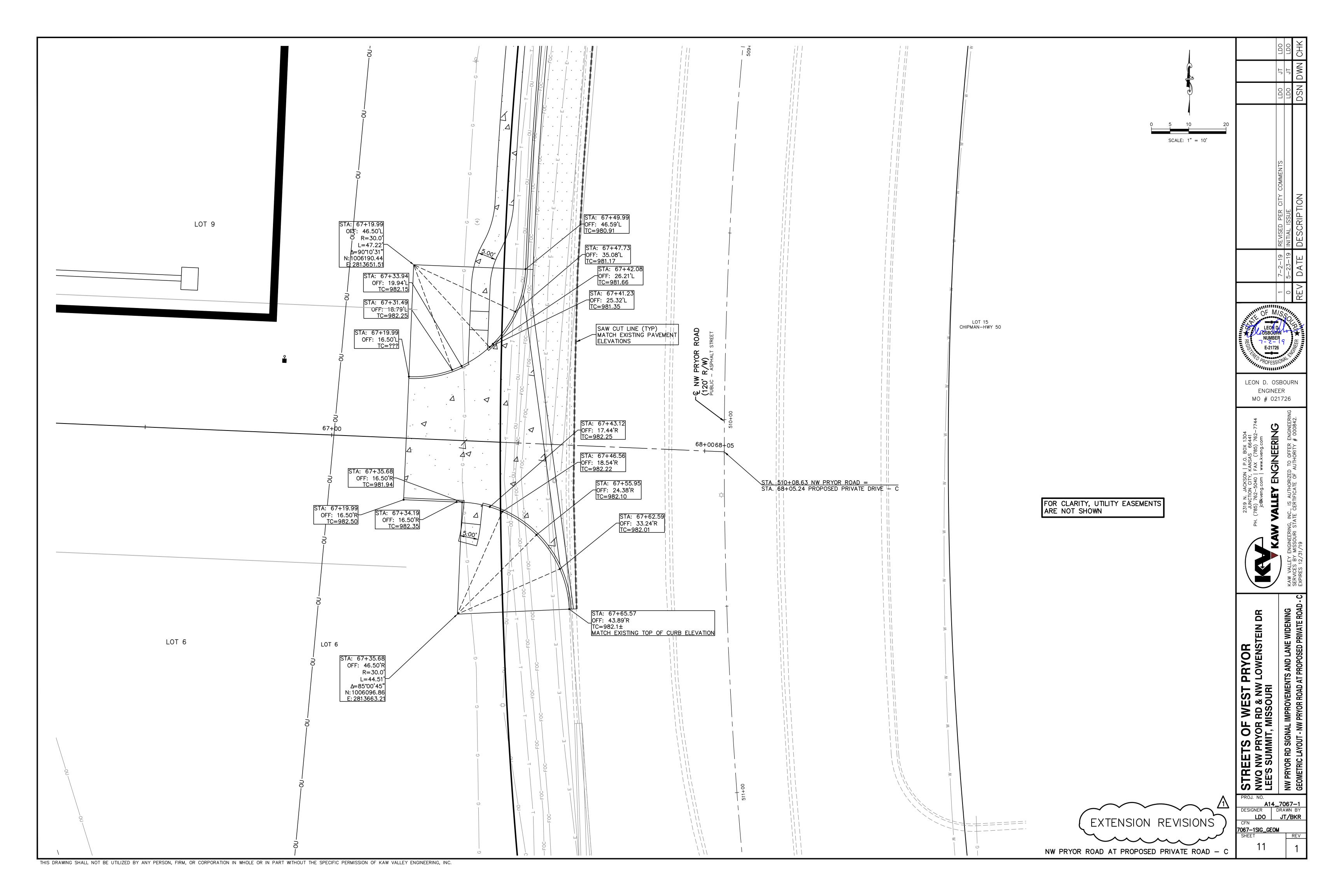


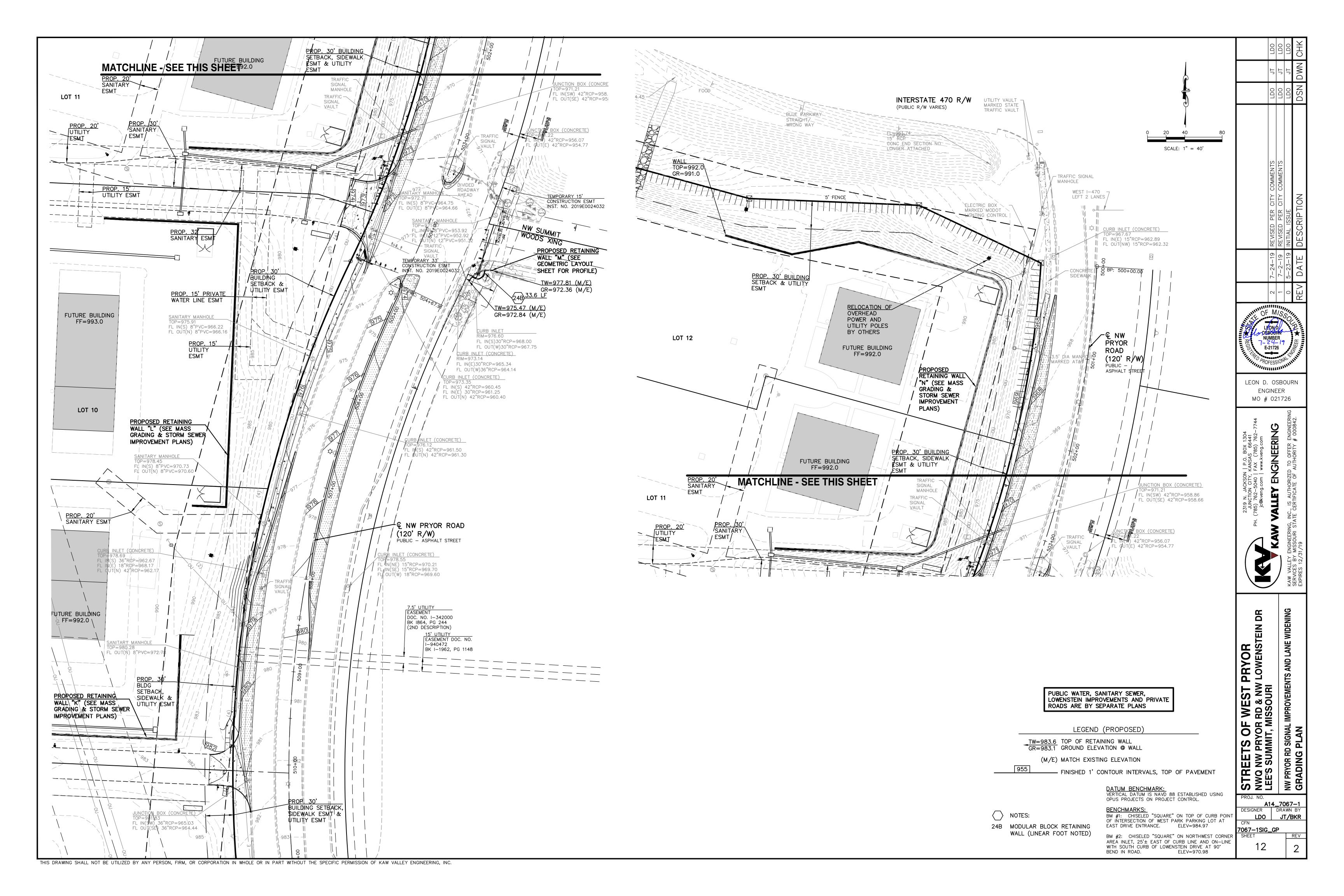


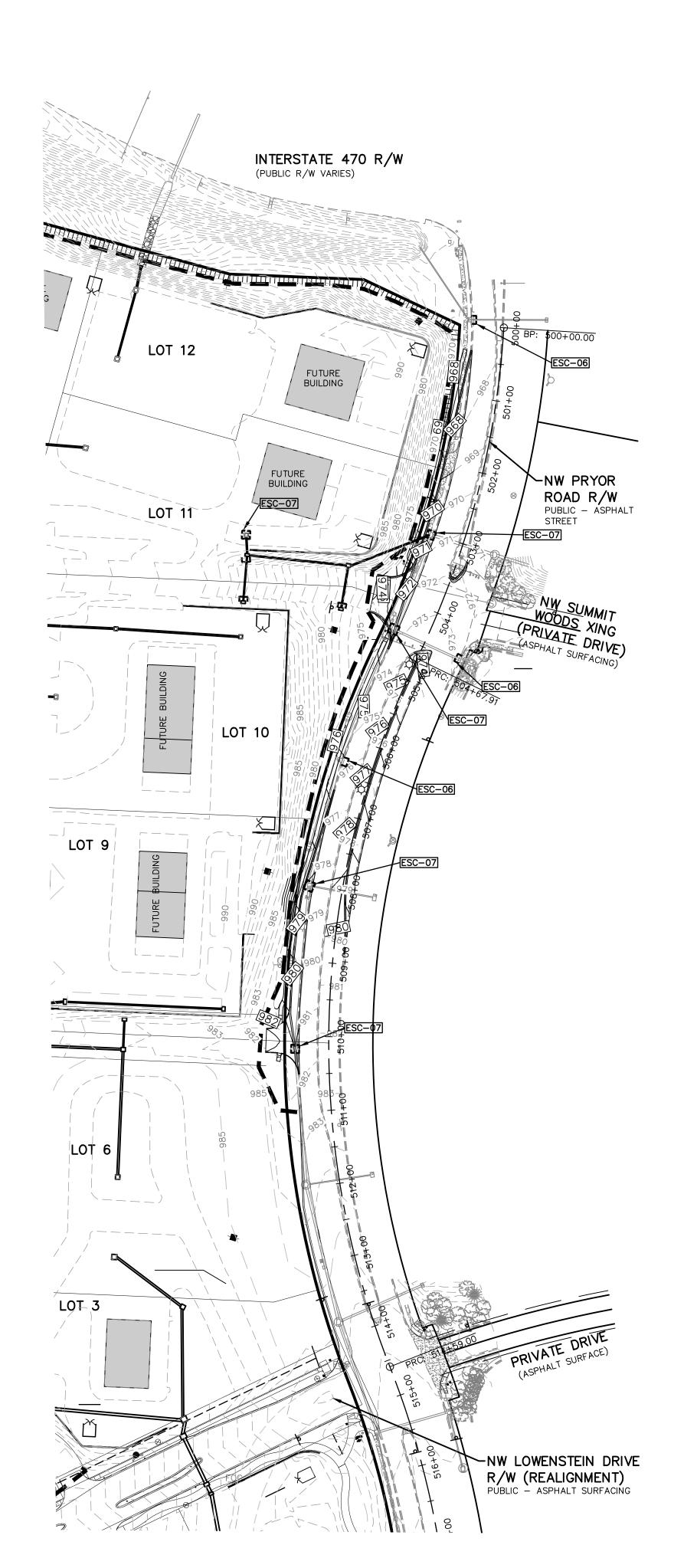


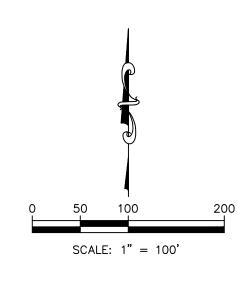












DETAILS — SEE EROSION CONTROL DETAIL SHEETS FOR THE FOLLOWING DETAILS

ESC-03 SILT FENCE ESC-06 CURB INLET PROTECTION ESC-07 AREA INLET AND JUNCTION BOX PROTECTION

EROSION & PROPOSED IMPROVEMENTS LEGEND:

---970 — — EXISTING GROUND CONTOUR (1' INTERVALS) PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)

SEDIMENTATION FENCE

GENERAL NOTES:

1. PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.

2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.

- 3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
- 4. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
- 5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
- 6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
- 7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
- 8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL, OR SECURED STRAW BALES, OR SILT FENCE.
- 9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
- 10. RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
- 11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
- 12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 13. TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
- 14. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
- 15. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
- 16. INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.

- 17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
- 18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
- 19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
- 20. ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON-DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
- 21. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
- 22. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
- 23. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
- 24. RIGHT OF WAY TO BE STABILIZED AS REQUIRED BY APWA SECTION 2400.
- 25. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
- 26. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
- 27. EROSION CONTROL SEDIMENT FENCE TO BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

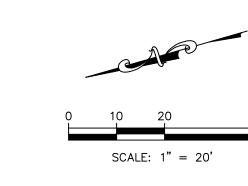
LEON D. OSBOURN ENGINEER MO # 021726

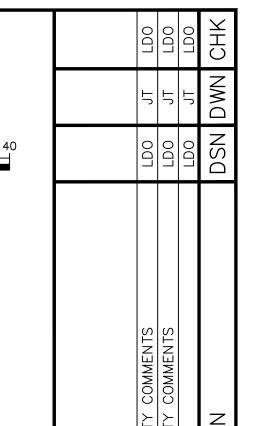
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DR EIN RY ow

EETS OF NW PRYOF SUMMIT, I

A14_7067-1





LEON D. OSBOURN ENGINEER MO # 021726

VALLEY ENGINEERING

| LOT 14A CHIPMAN—HWY 50, 3RD PLAT | | TRACT B-1 CHIPMAN-HWY 50, 3RD PLAT | | NW SUMMIT WOODS XING (PRIVATE DRIVE) | |
|-------------------------------------|---|---------------------------------------|-----------------------|--|--------|
| 00:0 | 501±00 = = = = = = = = = = = = = = = = = = | | DIVIDED ROADWAY AHEAD | 504+00 | |
| 500+00 500+00 HH+56 | HH+20 AA+88 AA============================= | DASHED WHITE HH JJ +54 JJ |)+11 (AA)+40 | DD EEE 6' | 505+00 |
| | LOT 12 | LOT 11 | | © PROPOSED PRIVATE ROAD – A (SEE SEPARATE PLANS) | LOT 10 |

NOTE:

1. PAVEMENT MARKING SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE CURRENT CITY OF LEE'S SUMMIT PAVEMENT MARKING STANDARDS.

2. ALL DIMENSIONS REFERENCING DOUBLE YELLOW LINES REFERS TO THE CENTER OF THE SPACE BETWEEN THE TWO DOUBLE YELLOW LINES.

3. CONTRACTOR TO GRIND OFF CONFLICTING PAVEMENT MARKING.

LIST OF PAVEMENT MARKING

(DD) 6" DASHED WHITE EXTENSION LINE (THERMOPLASTIC)

(EE) 6" SOLID WHITE CROSS-WALK LINE (THERMOPLASTIC)

(JJ) TURN ARROW WHITE (RIGHT) (THERMOPLASTIC)

(AA) 4" SOLID WHITE LINE (HIGH BUILD PAINT)

(GG) 24" STOP BAR (THERMOPLASTIC)

(HH) TURN ARROW WHITE (LEFT) (THERMOPLASTIC)

STREETS OF WEST PRYOR

NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING

NW PRYOR ROAD PAVEMENT MARKING PLAN

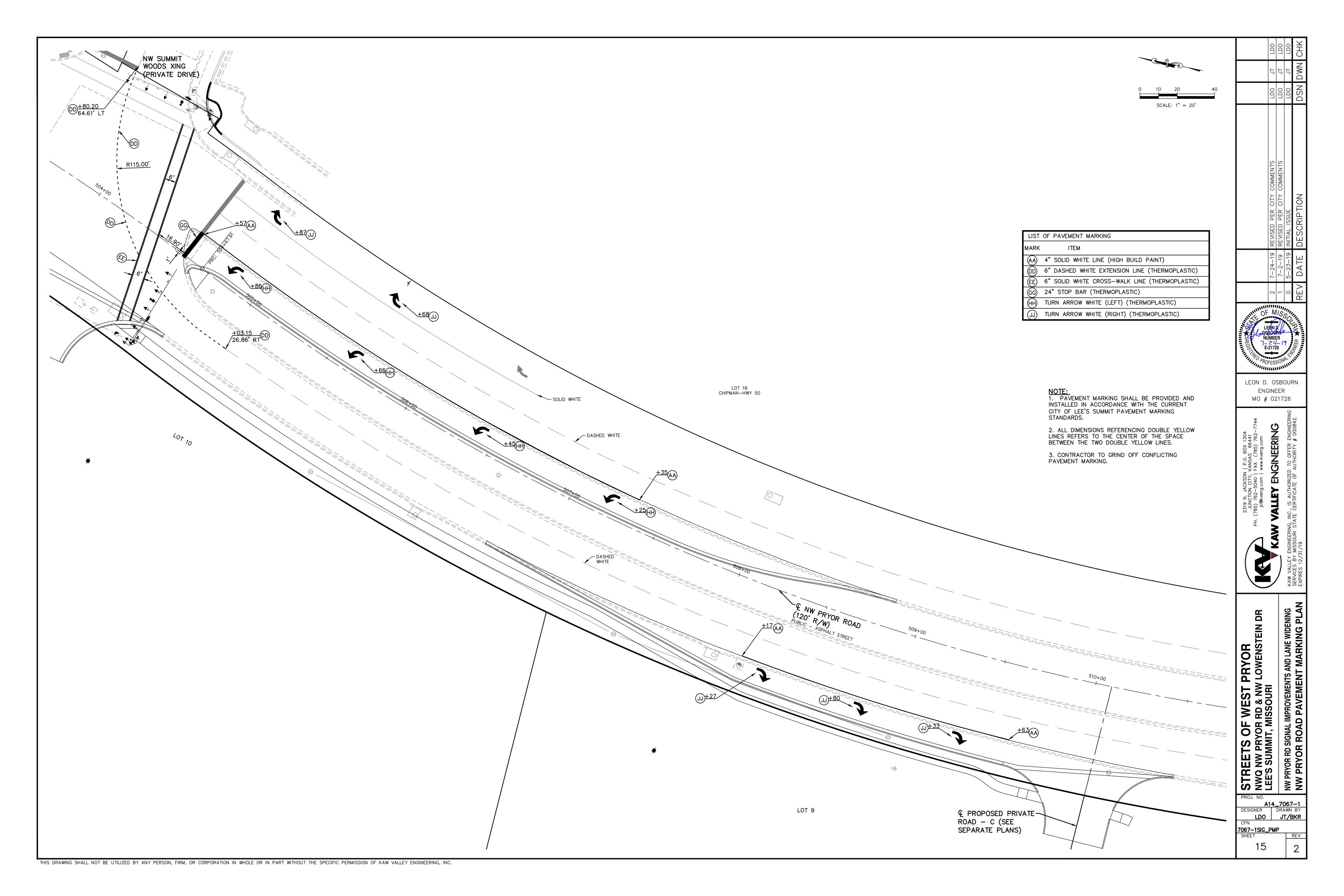
A14_7067-1

DESIGNER DRAWN BY

LDO JT/BKR

CFN

7067-1SIG_PMP SHEET



GENERAL NOTES:

 THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF LEE'S SUMMIT) AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.

2. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OR ANY PART THEREOF UNDERTAKEN UNTIL THE DIRECTOR OF PUBLIC WORKS OR HIS AGENT IS NOTIFIED OF SUCH INTENT, AND ALL REQUIRED AND PROPERLY EXECUTED BONDS AND CONTRACT AGREEMENTS ARE RECEIVED AND APPROVED BY THE CITY.

3. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI, IN CURRENT USE. SPECIFICALLY, BUT NOT EXCLUSIVE TO: TRAFFIC SIGNAL SPECIFICATION: SECTION 2900. TRAFFIC SIGNAL STANDARD DRAWINGS: TS-1 THROUGH TS-10.

- 4. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- RIGHT-OF-WAY LIMITS SHOULD BE CROSS CHECKED BY THE CONTRACTOR AND APPROVED BY THE FIELD INSPECTOR BEFORE UNDERTAKING ANY EXCAVATIONS AT THE
- THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL POLE BASES, PULL BOXES, AND CONTROLLER CABINET BASE, THEN PROVIDE THE CITY ONE WEEK NOTICE PRIOR TO THE START OF CONSTRUCTION, AND SUBSEQUENT CONSTRUCTION ACTIVITIES, FOR INSPECTION AND APPROVAL. THE CONTRACTOR SHALL PROVIDE A WORK SCHEDULE, CONTACT NAMES, AND PHONE NUMBERS.
- 7. ALL LOCATIONS INDICATED IN DRAWINGS, INCLUDING CONDUIT RUNS ARE SUBJECT TO ADJUSTMENT TO CLEAR OBSTRUCTIONS AND TO MEET SITE CONDITIONS, IF ANY BY THE CITY.
- 8. EXISTENCE AND LOCATION OF ANY UNDERGROUND OR OVERHEAD FACILITIES SHOWN ON THESE DRAWINGS OR REFERENCE TO ANY SOIL CONDITIONS, IF MADE, ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SITE CONDITIONS AND TO LOCATE ALL UTILITIES, INCLUDING DEPTH, BEFORE STARTING CONSTRUCTION SO THAT ANY ADJUSTMENTS TO DESIGN CAN BE MADE PRIOR TO POLE ORDERING OR FABRICATION. IN ADDITION, THE CONTRACTOR SHALL AVOID DISRUPTION OF SERVICES PROVIDED BY THE UTILITIES AND SHALL INSURE THAT PROPER CLEARANCES (OVERHEAD AND UNDERGROUND) ARE MAINTAINED FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
- 9. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TRAFFIC ENGINEER FOR ANY NECESSARY CHANGES TO THE TRAFFIC SIGNALS RESULTING FROM EXISTING UTILITIES OR OTHER CONSTRUCTION ISSUES.
- 10. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

11. SIGNAL EQUIPMENT SHALL NOT FORM AN OBSTRUCTION TO THE MOVEMENT OF PEDESTRIAN AND WHEELCHAIR TRAFFIC AND SHALL BE ADA ACCESSIBLE. WHERE SIDEWALKS ARE PRESENT, A MINIMUM CLEAR WIDTH OF 48 INCHES SHALL BE AVAILABLE FOR PEDESTRIAN AND WHEELCHAIR MOVEMENT. PULL BOXES SHALL NOT BE INSTALLED ON WHEELCHAIR RAMPS.

12. CONDUITS TO BE PLACED OUTSIDE OF PAVED AREAS SHALL BE TRENCHED IN PLACE. IF THE PROJECT INCLUDES ROADWAY IMPROVEMENTS, THE CONDUIT SHALL BE TRENCHED AFTER THE ROADWAY ROUGH GRADE IS ESTABLISHED AND PRIOR TO ANY FINAL ROADWAY PAVING, CURB & GUTTER, MEDIAN OR SIDEWALK SECTIONS ARE PLACED. ALL COMPACTION AND BACKFILL SHALL MEET CITY OF LEE'S SUMMIT REQUIREMENTS. AT THE OPTION OF THE CONTRACTOR, CONDUITS MAY BE BORED OUTSIDE PAVED AREAS, BUT THERE WILL BE NO ADJUSTMENT TO THE UNIT PRICES FOR CONDUIT INSTALLATION AND ANY CHANGE IN COST WOULD BE THE CONTRACTOR'S RESPONSIBILITY. ANY CONDUIT BORE OUTSIDE THE PAVED AREAS SHALL BE DONE AFTER ROADWAY IMPROVEMENTS ARE COMPLETE. CONDUITS TO BE PLACED WITHIN THE LIMITS OF PAVEMENT SHALL BE BORED UNLESS OTHERWISE AUTHORIZED BY THE CITY TRAFFIC ENGINEER. IF THE PROJECT INCLUDES ROADWAY IMPROVEMENTS, THE CONDUIT SHALL BE BORED PRIOR TO ANY FINAL ROADWAY PAVING. POTHOLING FOR UTILITIES ON ROAD BORES AFTER FINAL PAVING WILL NOT BE ALLOWED.

13. THE TRAFFIC SIGNAL CONTROLLER, CABINET AND RELATED EQUIPMENT, AS SPECIFIED FOR THIS PROJECT, SHALL BE DELIVERED TO THE CITY FOR TESTING PRIOR TO INSTALLATION. ALL SIGNAL TIMINGS WILL BE PROVIDED BY THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL COORDINATE MATERIAL DELIVERY AND PICK-UP WITH THE PUBLIC WORKS OPERATIONS DEPARTMENT (969-1870) AT LEAST 48 HOURS PRIOR TO TRANSPORTATION. THE CONTRACTOR ASSUMES ALL DAMAGE LIABILITY AND SHOULD INSPECT ALL MATERIALS BEFORE AND AFTER TRANSPORTATION OF EQUIPMENT.

14. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL POWER REQUIREMENTS AND CONNECTION ACTIVITIES WITH THE UTILITY COMPANY. INCLUDING LOCATION OF THE METER, CIRCUITRY AND CONNECTION REQUIREMENTS, AND POWER UP THE COMPLETE

15. ALL DISTURBED SURFACES SHALL BE MADE GOOD TO MATCH EXISTING AT THE CONTRACTOR'S EXPENSE.

16. CONTRACTOR SHALL MAINTAIN AT ALL TIMES ACCESS FOR EMERGENCY VEHICLES AND RESIDENTS ALONG THE ENTIRE PROJECT.

17. SUBSTANTIAL COMPLETION OF THE TRAFFIC SIGNALS SHALL BE DEFINED AS ALL COMPONENTS OF THE TRAFFIC SIGNAL OPERATED FULLY AND SATISFACTORILY WITH RED, YELLOW, AND GREEN CYCLES. SUBSTANTIAL COMPLETION SHALL ALLOW FOR TESTING OF THE SIGNALS, INCLUDING A FLASH PERIOD, PRIOR TO SIGNALS OPERATING WITH CYCLES.

18. FINAL ACCEPTANCE OF TRAFFIC SIGNALS SHALL BE DEFINED AS FINAL WRITTEN APPROVAL AND ACCEPTANCE BY THE CITY, INCLUDING COMPLETION OR CORRECTIONS OF ALL PUNCH LIST ITEMS AND THE TRAFFIC SIGNALS FULLY OPERATIONAL FOR A TIME PERIOD OF FIFTEEN (15) DAYS, WITHOUT ANY PROBLEM, AS NOTED IN THE SPECIFICATIONS. AS-BUILT PLANS SHALL BE SUBMITTED PRIOR TO FINAL ACCEPTANCE

19. THE CONTRACTOR SHALL VERIFY AND/OR COORDINATE WITH THE VARIOUS SERVICE PROVIDERS ON THE EXACT LOCATIONS OF METERS, CONNECTION POINTS AND OTHER SPECIFIC PROJECT REQUIREMENTS. THE PROPOSED SERVICE LINE LOCATIONS THAT ARE SHOWN ARE CONCEPTUAL AND ARE NOT WARRANTED.

PROJECT SPECIFIC NOTES:

1. THE CONTRACTOR SHALL SUPPLY THE TRAFFIC SIGNAL CONTROLLER, CABINET, SIGNAL POLES WITH MAST ARMS AND POWER SUPPLY ASSEMBLY, AND THE CONTRACTOR SHALL INSTALL THE EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS OPERATIONS DEPARTMENT (816-969-1870) FOR PICK-UP OF EQUIPMENT AT LEAST 48 HOURS PRIOR TO TRANSPORTATION. THE CONTRACTOR ASSUMES ALL DAMAGE LIABILITY AND SHOULD INSPECT ALL MATERIALS BEFORE AND AFTER TRANSPORTATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING THE SIGNAL PEDESTAL POLES.

2. THE VIDEO DETECTION SYSTEM SHALL BE AN IN SYNC ADAPTIVE TRAFFIC CONTROL SYSTEM SUPPLIED BY RHYTHM ENGINEERING, 12351 W 96TH TERRACE, SUITE 107, LENEXA, KANSAS 66215, PHONE (913)227-0603. MATERIALS SUPPLIED BY RHYTHM ENGINEERING SHALL CONSIST OF AN IN SYNC PROCESSOR, VIDEO CAMERAS, TRANSFORMER, RG CABLE, DETECTOR CARDS AND CABLES, SITE EQUIPMENT PANELS, MONITOR, KEYBOARD AND CAMERA MOUNTING HARDWARE.

3. CABLES FOR THE VIDEO DETECTION SYSTEM SHALL BE ONE CONTINUOUS 3c-#14 CABLE AND ONE CONTINUOUS CATEGORY 5E+ CABLE (SHIELDED OUTDOOR RATED) BETWEEN THE CONTROLLER AND EACH CAMERA. THE 3c-#14 CABLE SHALL MEET REQUIREMENTS OF IMSA 20-1. CABLES ARE INCLUDED IN THE LUMP SUM PRICE FOR THE VIDEO DETECTION SYSTEM. NO ADDITIONAL PAYMENTS WILL BE MADE.

CONSTRUCTION SEQUENCING:

 CONTRACTOR TO OBTAIN AND FOLLOW TEMPORARY TRAFFIC CONTROL PERMIT (TTCP) CONDITION REQUIREMENTS.

2. CONTRACTOR TO SUBMIT FOR APPROVAL BY CITY OF LEE'S SUMMIT TRAFFIC ENGINEER A DETAILED TRAFFIC SEQUENCING PHASING PLAN.

3. CONTRACTOR TO MAINTAIN EXISTING SIGNAL OPERATIONS UNTIL NEW SYSTEM, HAS BEEN TESTED AND OPERATIONAL.

4. PER TTCP, CONTRACTOR TO INSTALL TRAFFIC CONTROL, CHANNELIZATION DEVICES AND TEMPORARY PAVEMENT MARKING AROUND WORK ZONE.

5. CONTRACTOR TO PROVIDE PEDESTRIAN DETOUR PLAN ALONG WITH TRAFFIC SEQUENCING PLAN.

6. CONTRACTOR TO INSTALL CONSTRUCTION FENCING AROUND AREAS WHERE PEDESTRIAN MOVEMENTS MAY CONFLICT WITH CONSTRUCTION ACTIVITIES.

7. NO COLLECTOR OR ARTERIAL STREETS SHALL HAVE LANE(S) REDUCED OR CLOSED BEFORE 9 A.M. AND AFTER 4 P.M. MONDAY THRU FRIDAY. NO WORK ON SATURDAY, SUNDAYS OR HOLIDAYS OBSERVED BY THE CITY.

8. ALL TRAVEL LANES SHALL BE A MINIMUM OF 11.00 FEET WIDE EXCLUDING CURB AND GUTTER. ALL SIDEWALKS SHALL HAVE A MINIMUM CLEAR PATH OF 3.5 FEET. ALL MULTI-USE PATHS SHALL HAVE A MINIMUM CLEAR PATH OF 8.00 FEET.

9. CONTRACTOR SHOULD REVIEW TTCP AND MEET REQUIREMENTS PER CITY OF LEE'S SUMMIT REGULATIONS.

LEGEND

- OPTICALLY LIMITING TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN SIGNAL HEAD
- STOP LINE LANE USE
 - ☆ STREET LIGHT POLE
 - ◆ MAST ARM POLE
 - SIGNAL PEDESTAL
 - TRAFFIC CONTROLLER CABINET
 - STREET LIGHT CONTROLLER CABINET
 - PULL BOX
 - FIBER OPTIC PULL BOX

POWER SUPPLY (DISCONNECT)

--- CONDUIT

SUGGESTED VEHICLE DETECTION ZONE

← OPTICOM DETECTOR

PUSH BUTTON DETECTOR

✓ SECONDARY SERVICE POINT

SIGNAL FACE NUMBER

POST NUMBER

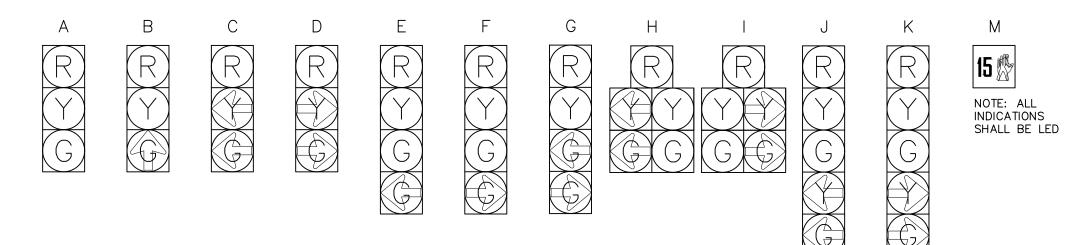
DETECTOR NUMBER PULL BOX NUMBER

PB24 PUSH BUTTON NUMBER

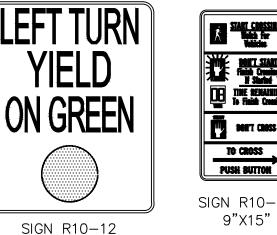
VIDEO DETECTION CAMERA

COBRA HEAD LUMINAIRE

→ SIGN



TYPICAL REGULATORY SIGN DETAIL



12"X30"





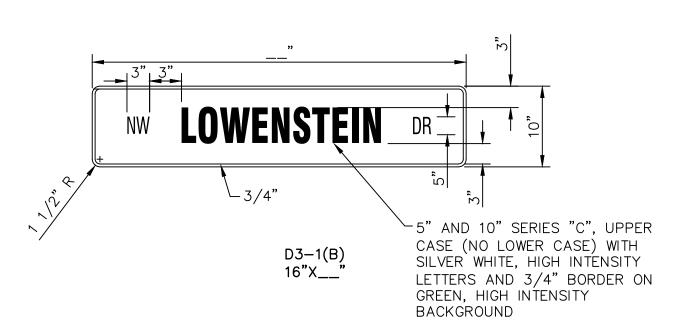
SIGN R10-10L

24"X30"

BACKGROUND

NOTE: SIGN R10-3E SHALL BE PROVIDED FOR EACH PUSH BUTTON

-5" AND 10" SERIES "C", UPPER CASE (NO LOWER CASE) WITH D3-1(A)SILVER WHITE, HIGH INTENSITY 16"X64' LETTERS AND 3/4" BORDER ON GREEN, HIGH INTENSITY





ENGINEER MO # 021726

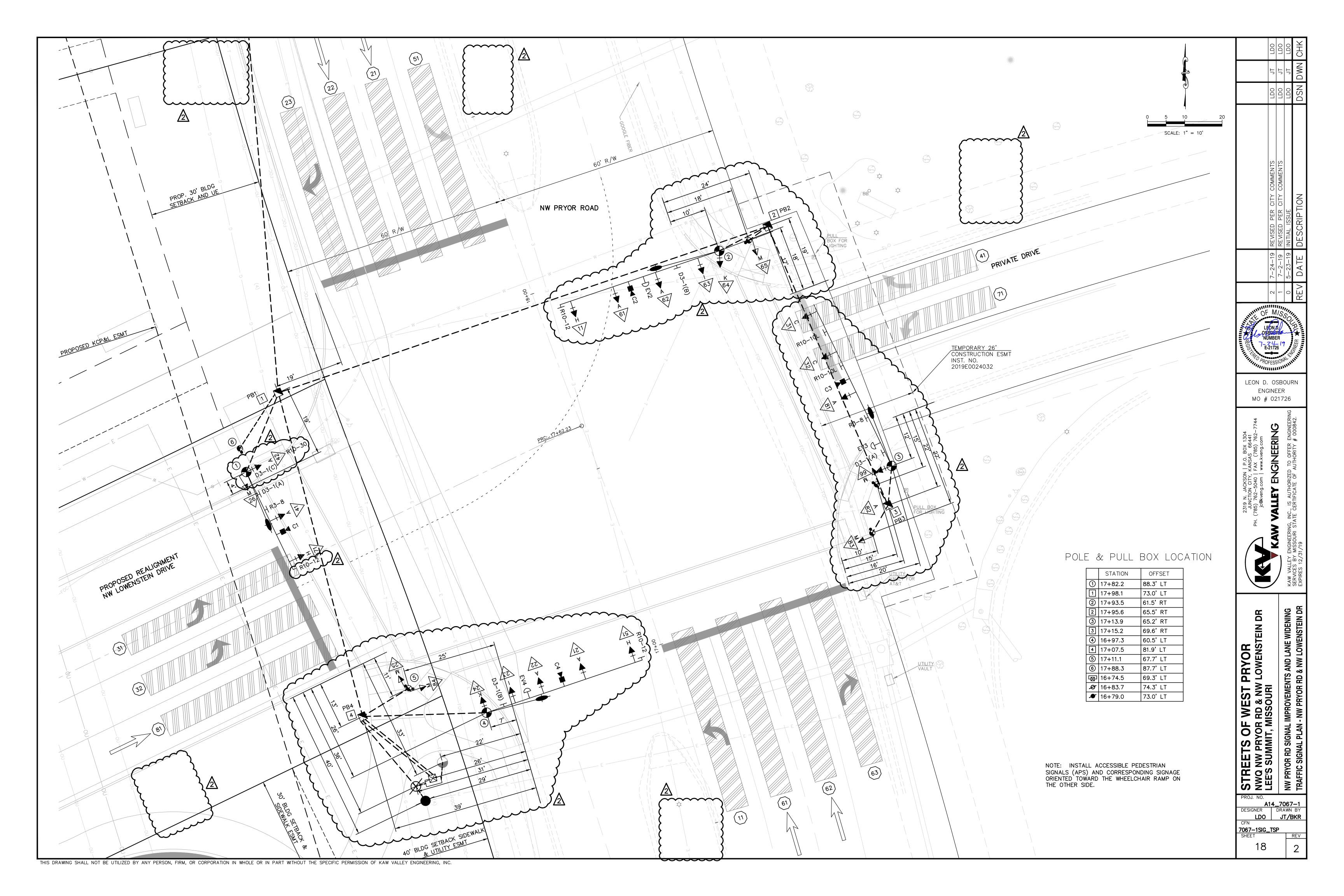
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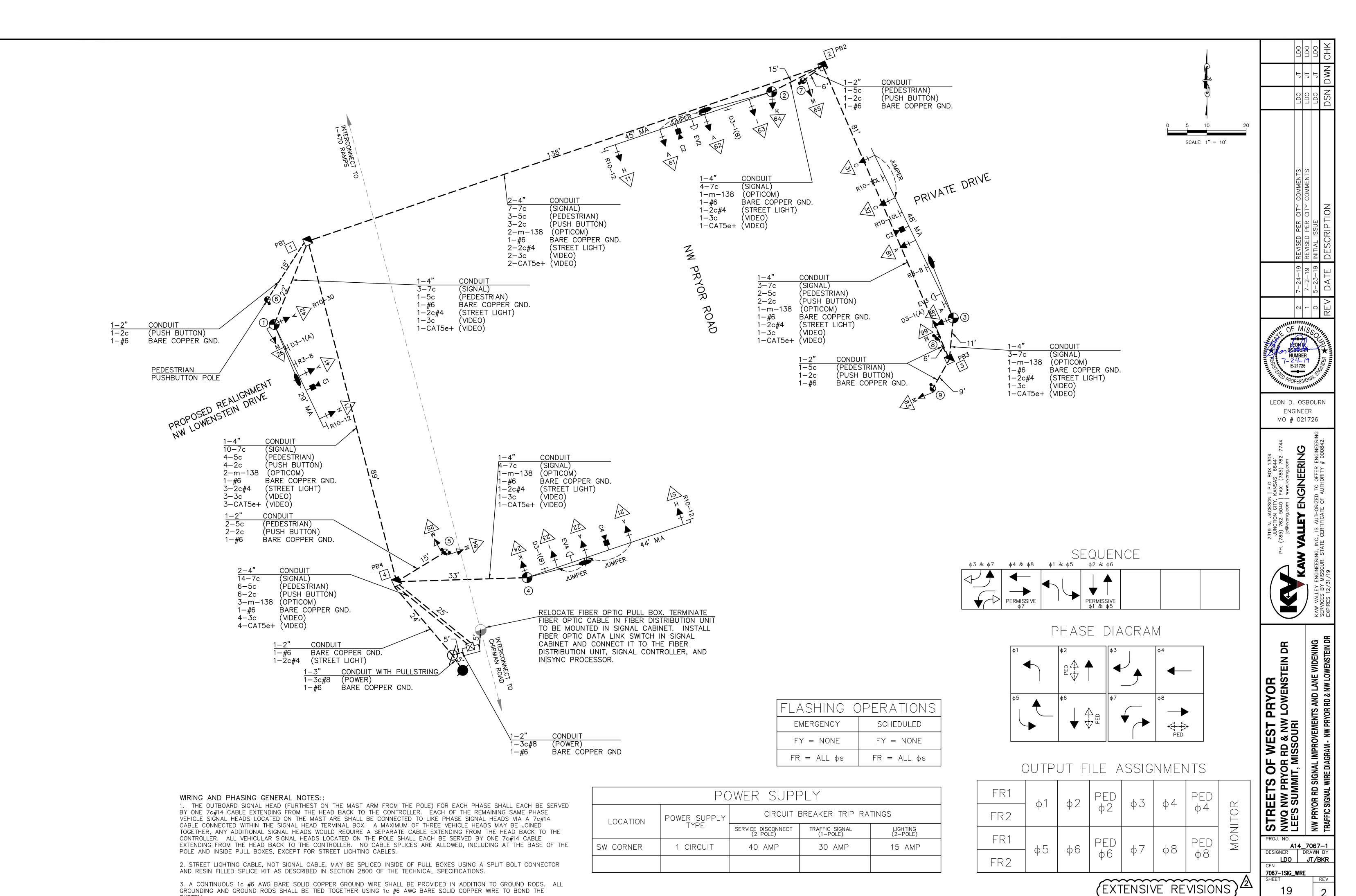
DR TEIN NTS AND LANE \
& CONSTRUCTION

PRYOR / F WEST FOR BY NW MISSOURI NW PRYOF SUMMIT, I

A14_7067-1 DESIGNER | DRAWN B LDO JT/BKR

7067-1SIG_GN





CONTROL

TYPE 20-1

|2c-14|5c-14|7c-14|2c-14|

LEAD-IN

CABLE

PRE-EMPTION CABLE *

VIDEO

CABLE*

m-138 | 3c#14 | CAT5e+

REMARKS

LEON D. OSBOURN ENGINEER MO # 021726

OF WEST PRYOR
OR RD & NW LOWENSTEIN DR
T, MISSOURI

A14_7067-1
DESIGNER DRAWN BY
LDO JT/BKR

TOTAL

87.5

CABLE

SIGNAL CONDUIT

BID TOTAL (FEET)

10

70

620

POWER/LIGHTING

| | | | | | | | | | | | | POLES | | | | |
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| POLE N | | IEIGH FEE | | | | IGTH EET) | | A | В | C | D | MOUNTING HEIGHT | 400 W H.P.S. | BRA(ARM L | CKET ENGTH | REMARKS |
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| ٨ | 10. | | | В | ASE: | S | | | PULL | BOXES | |
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| POLE | PULL BOX | B10 | B13 | С | EV | POWER SUPPLY | CONC. (C.Y.) | CLASS 1 | CLASS 2 | CLASS 3 | FIBER OPTIC |
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CONTROLLER AND EQUIPMENT

| * | SIGNAL HEAD SPACING (FEET) MAY BE ADJUSTED TO SITE |
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| | CONDITIONS AS APPROVED BY THE PROJECT INSPECTOR. |

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| POLE | FACE | HEAD | OPT. | | Α̈́ | | | | | | | | | WALK | FLASH WA | W/DW | UN OIC | ż |) T A | | 1 | | 2 | | 3 | | | 4 | | 5 | 5 | |
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| 1 | \boxtimes 32 | <u>^</u> | | | | | | 1 ∠ | 101 | | | | | OOMI LIX | _ |
| _ | 32 | | | | | | | | 484 | | | 107 | 407 | | _ |
| _ | X C. X 8 |) | | | | | | | | | | 497 | 497 | | _ |
| | ☒ 8 | | | | | | | | 470 | | | | | | _ |
| | X IEV | 3 | | | | | | | | | 453 | | | | - |
| Ī | 82 | 2 | | | | | | | 445 | | | | | | _ |
| 1 | X 82 X 83 | <u>- </u> | | | | | 467 | 467 | - ' ' ' | | | | | | _ |
| 붐 | | $\frac{1}{2}$ | | | | | | | | | | + | | | _ |
| | ✓ 6€✓ 5 | <u>ر</u> 1 | | | - | - | 463 | 463 | 107 | | | | | | _ |
| _ | X 5 | | | | | | | | 163 | | | | | | _ |
| | X 2 | | | | | | | | 147 | | | | | | |
| | 21 22 | 2 | | | | | | 12 | | | | | | JUMPER | |
| | 22 23 | | ĺ | | | | | 8 | | | | | | JUMPER | |
| _ | | 1 | | | | | | | | | | 147 | 147 | | _ |
| | X C4 X 22 X EV | ' | | | | | | | 133 | | | 117 | 1 1 7 | | _ |
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| _ | | 4 | | | | | | | | | 81 | | | | _ |
| | X 2. | 3 | | | | | | | 124 | | | | | | |
| ĺ | ☒ 24 | 4 | _ T | | | | | | 100 | | | | | | _ |
| Ī | 84 | 1 | | | | | 79 | 79 | | | | | | | |
| i | <u> </u> | | | | | | 79 | 79 | | | | | | | _ |
| _ | 8 (1 | \leftarrow | + | | 202 | | , , | , , | | | | | | | - |
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| _ | Ø 2 | | | | 344 | | | | | | | | | | _ |
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| _ | Ø 6 | | | | | | 180 | | | | | | | | _ |
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| _ | Ø 6 Ø 4 Ø \(\sigma\) | | | 34 | - | - | | | | | | | | | _ |
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| ز | o R | r | | 35 | | | | | | | | | | | _ |
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| \vdash | SYSTEM | 1 5 | 50 | | <u> </u> | | | | | | | | | | _ |
| _ | | . 1 | | | | | | | | | | | | | _ |
| ۲ | SUBTOTA (FEET) | '- 5 | 50 | 104 | 1091 | | 1691 | 1688 | 5189 | | 914 | 1305 | 1305 | | |
| _ | | | | | | | | | | | | | | | _ |
| C | ID TOTA (FEET) | ` 5 | 85 | 110 | 1120 | | 1710 | 1710 | 5210 | | | | | | |

| M — MAST ARM MOUNTED SIGNAL HEAD |
|---|
| S — SPAN WIRE MOUNTED SIGNAL HEAD |
| NOTE: 1. QUANTITES SHOWN HEREON ARE FOR REFERENCE ONLY. |
| 2. ALIGN FACES OF PEDESTRIAN PUSHBUTTONS PARALLEL TO CROSS-WALK. |
| 3. ALL PULL BOXES LOCATED IN TRAVEL WAY SHALL BE TRAFFIC RATED. |
| 4. THE TRAFFIC SIGNAL SYSTEM SHALL BE COMPLETE AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SATISFACTORY OPERATION OF ELECTRICAL APPARATUS AND FOR COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT. |

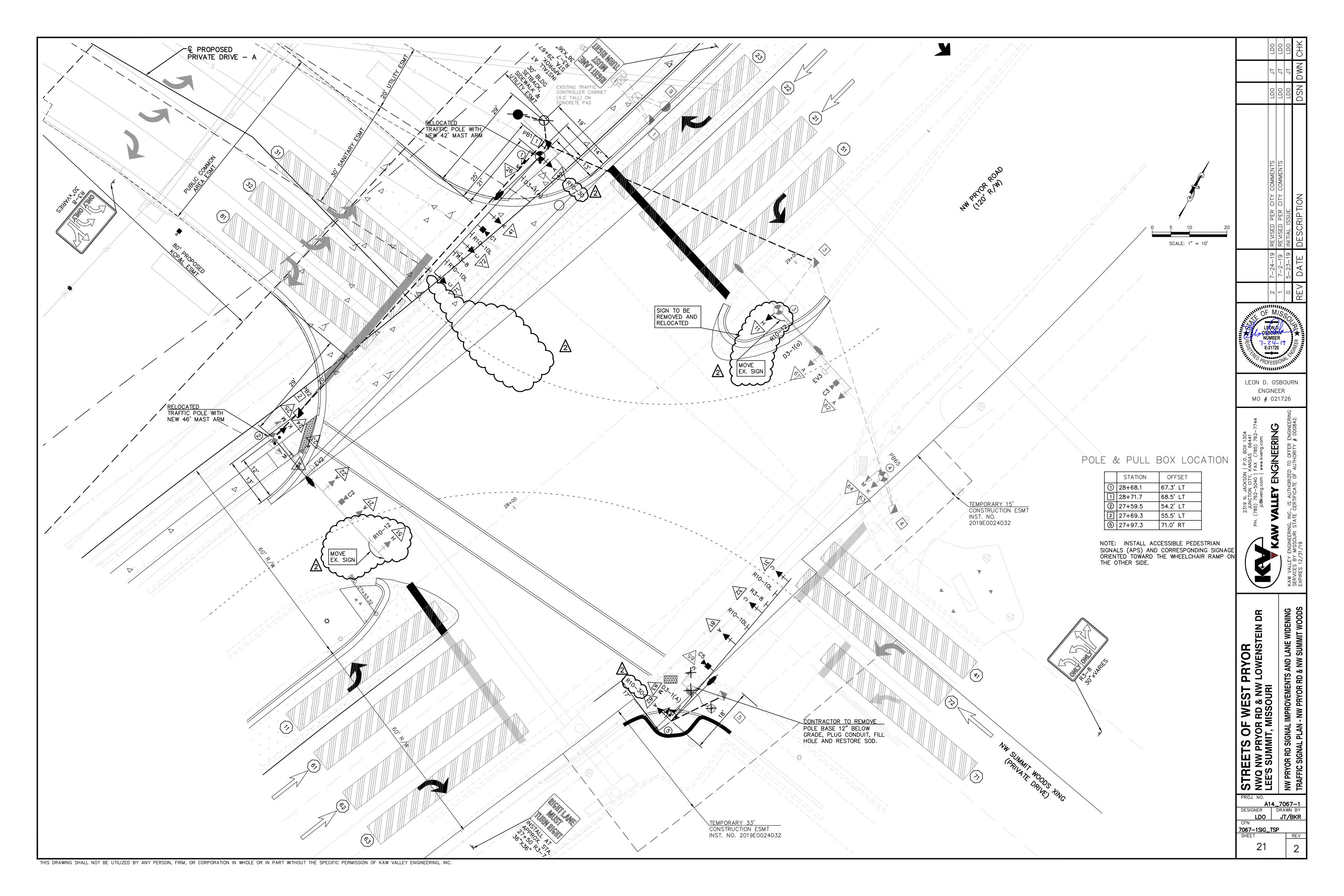
P — POLE MOUNTED SIGNAL HEAD

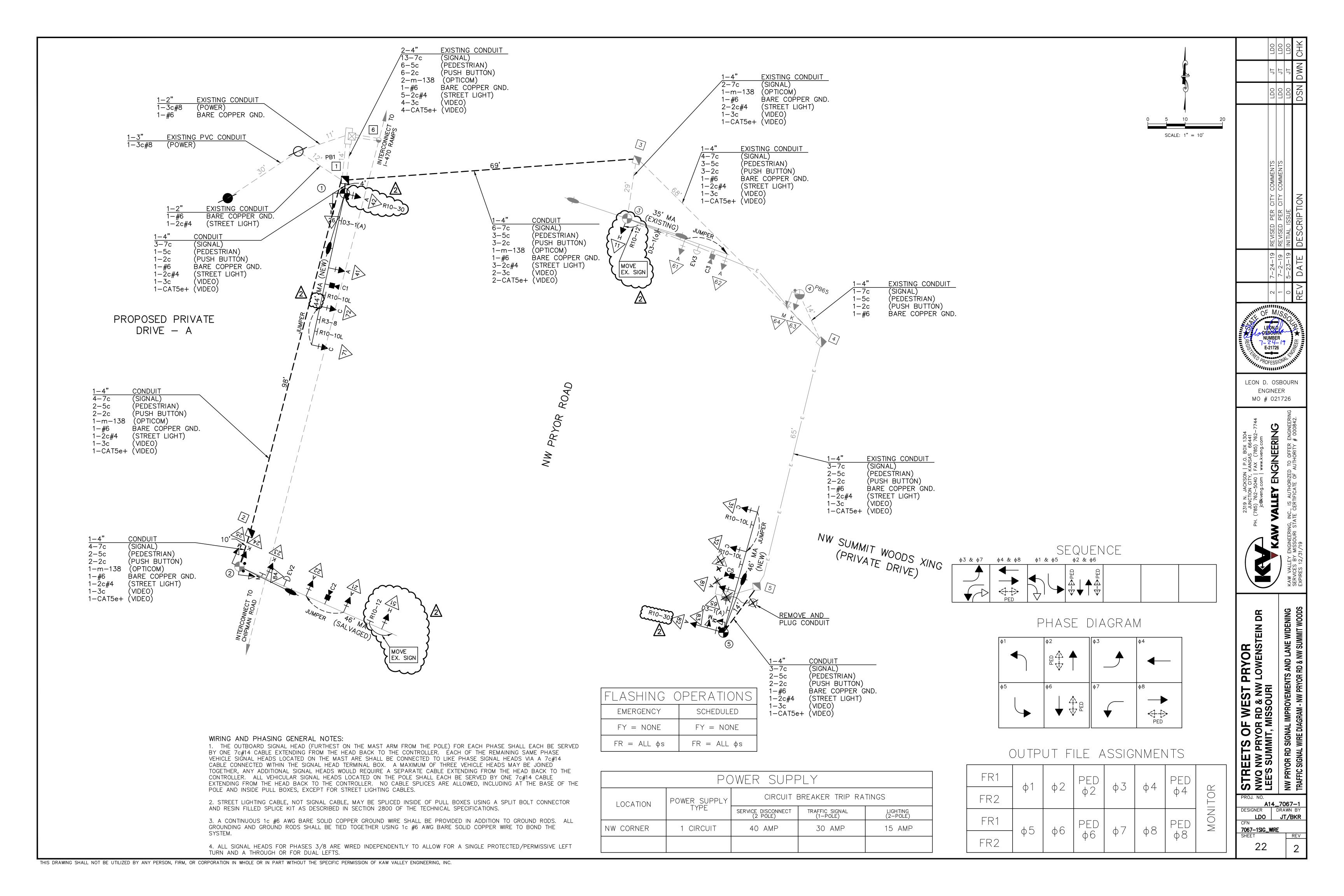
| | | | | • • | | | | | |
|-------------|-------------|-----------|----------------------|------------|------------|---------|------------------------|-------|-----|
| FROM | ТО | 3" PVC | 2" HDPE (GREY) | 4" HDPE | | SIGN | LEGEND | NO. | SF |
| * | Ø | 5 | | |] | R10-10L | LEFT TURN SIGNAL | 2 | 5.0 |
| Ø | \boxtimes | | 5 | |] | R10-10R | | | |
| Ø | 4 | | 24 | |] | R10-12 | LT TURN YIELD ON GREEN | 3 | 5.0 |
| \boxtimes | 1 | | | 114 | ۸ ا | R10-3F | | ~~~ | ~~ |
| 1 | \bigcirc | | | 22 | / 2 | (R1Q-3Q | RTORMYTUÍ | مملمم | 7.5 |
| 1 | 2 | | | 276 | 1 | R3-7L | LT LANE MUST TURN LT | 3 | 5.0 |
| 1 | 4 | | | 89 | ╛ | R3-7R | RT LANE MUST TURN RT | 2 | 5.0 |
| 1 | 6 | | 18 | | ╛ | R3-8 | VARIES | 3 | 10. |
| 2 | 2 | | | 5 | | , , | | | |
| 2 | 3 | | | 81 | . ↓ | D3-1(A) | NW PRYOR RD | 2 | |
| 3 | 3 | | | 5 | ↓ | D3-1(B) | LOWENSTEIN DR. | 2 | |
| 4 | 4 | | | 23 | | | | | |
| 4 | 5 | | 15 | | | | | | |
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| SURT | OTAL | | | 0.1.5 | - | | | | |
| | ET) | 5 | 62 | 615 | | TOTAL | | | |

EXTENSIVE REVISIONS

SIGNS

7067-1SIG_QTY SHEET





| | | | | | | | | | | | | POLES | | | | |
|----------|---|---|----|----|----|----------|----|----|---------------|------------|---|--------------------|-----------------|------|---------------|---|
| | 1 | DES | | | | ST RM | | S | | HEA | D | PULES | LIGHTING | | | |
| POLE NO. | + | POLE ARM SPACING HEIGHT LENGTH (FEET) A B C D | | | | | | | | | D | MOUNTING | 400 W H.P.S. | | CKET ENGTH | REMARKS |
| | 4 | 8 | 15 | 29 | 35 | 46 | | E | F | G | Н | HEIGHT | LUMINAIRES | LEFT | RIGHT | |
| 2 | | | | | | 1 | 52 | 0, | CENT VER L | ER ANES | | REUSE②46' MAST ARM | | | | NEW POLE EXISTING — NO CHANGE |
| 5 | | | | | | 1 | | | | | | | | | | REUSE NW CORNER POLES, MAST ARM EXISTING MAST ARMS, POLE, REUSE |
| | | | | | | | | | | | | | | | | |
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| TOTALS | | | | | 1 | 1 | 1 | | | | | | | | | |

| | | | В | AS | ES | AN | D PU | LL B | OXES | | |
|-----------|-------------|-------|-------------------|----|-------|-----------------|-----------------|------------|------------|------------|----------------|
| Ν | 10. | | | В | ASES | S | | | PULL | BOXES | |
| BOLE 1 | PULL BOX | B10 | B13 | С | EV | POWER SUPPLY | CONC. (C.Y.) | CLASS 1 | CLASS 2 | CLASS 3 | FIBER OPTIC |
| 2 3 4 5 | — E | EXIST | 1 ING- ING- | - | | | 3.4 | | | | |
| <u> </u> | 1 2 3 | | 1 XIST | | | | 3.4 | | 1 | 1 | |
| | 4 5 6 | | XIST PLAC | | //TR/ | AFFIC | RATED | LID | | 1 | 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | NTR. WER | | | | | | | | | | |
| | ALS | | 3 | | | | 10.2 | | 1 | 2 | 1 |

| FROM | 10 | GROUND | P | OWER/L | _IGHTIN(| 3 | T\ | ONTRO | _1 | LEAD-IN CABLE | CABLE | l | DEO BLE | REMARKS |
|-------------|-------------|--------|------|--------|----------|---|------------|------------|-------|------------------|-------|-------|------------|------------|
| | | #6 | 3c-8 | 2c-4 | | | 2c-14 | 5c-14 | 7c-14 | 2c-14 | m-138 | 3c#14 | CAT5e+ | |
| \boxtimes | 71 | | | | | | | | 74 | | | | | |
| 71 | 72 | | | | | | | 11 | | | | | | JUMPER |
| \boxtimes | 72 | | | | | | | | 61 | | | | | |
| \boxtimes | C1 | | | | | | | | | | | 54 | 54 | |
| \boxtimes | 41 | | | | | | | | 50 | | | | | |
| \boxtimes | 42 | | | | | | | | 27 | | | | | |
| \boxtimes | 26 | | | | | | 27 | 27 | | | | | | |
| \boxtimes | 51 | | | | | | | | 195 | | | | | |
| \boxtimes | 21 | | | | | | | | 181 | | | | | |
| 21 | 22 | | | | | | | 11 | | | | 475 | 475 | JUMPER |
| \boxtimes | <u>C2</u> | | | | | | | | 4.0.0 | | | 175 | 175 | |
| | 22 | | | | | | | | 169 | | 101 | | | |
| | EV2 | | | | | | | | 1 - 7 | | 161 | | | |
| | 23 | | | | | | | | 157 | | | | | |
| | 24 | | | | | | 1.4.6 | 1.4.6 | 146 | | | | | |
| | 84 | | | | | | 146 146 | 146 146 | | | | | | |
| | 25 | | | | | | 146 | 146 | 160 | | | | | |
| \boxtimes | 62 C3 | | | | | | | | 168 | | | 164 | 164 | |
| | EV3 | | | | | | | | | | 159 | 104 | 104 | |
| | 61 |) | | | | | | | 153 | | 109 | | | |
| 61 | 62 | | | | | | | 13 | 133 | | | | | JUMPER |
| \boxtimes | 11 | | | | | | | 10 | 135 | | | | | JOIVII LIX |
| | 63 | | | | | | | | 196 | | | | | |
| | 64 | | | | | | 196 | 196 | 130 | | | | | |
| | 31 | | | | | | 100 | 130 | 310 | | | | | |
| 31 | 32 | | | | | | | 12 | 010 | | | | | JUMPER |
| \boxtimes | 32 | | | | | | | 12 | 296 | | | | | |
| \boxtimes | C5 | | | | | | | | | | | 289 | 289 | |
| \boxtimes | 81 | | | | | | | | 284 | | | | | |
| \boxtimes | 82 | | | | | | | | 271 | | | | | |
| \boxtimes | 83 | | | | | | 271 | 271 | | | | | | |
| \boxtimes | 65 | | | | | | 271 | 271 | | | | | | |
| Ø | 1 | | | | | | | | | | | | | |
| Ø | 2 | | | | | | | | | | | | | |
| Ø | 3 | | | | | | | | | | | | | |
| Ø | (5) | | | | | | | | | | | | | |
| Ø | \boxtimes | | | | | | | | | | | | | |
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LEON D. OSBOURN ENGINEER MO # 021726

VALLEY ENGINEERING

SIGNAL IMPROVEMENTS AND LANE WIDENING QUANTITIES - NW PRYOR RD & NW SUMMIT WOODS

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

A14_7067-1
DESIGNER DRAWN BY
LDO JT/BKR

23

CABLE

SYSTEM 475

475

BID TOTAL 490 70

60

851

960

SUBTOTAL (FEET)

| | SIGNAL HEADS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--------------|---------------|--------|---------|---------|-----|-----|------------|----------------|----------------|--------|------|-----|----------|-----------------------|----------|---------|----------|---|---|---|---|-----------------|---|------------------|---------|---------|-------------|-----------|----------|----------|--|--|--|--|--|--|
| | | | | | | | | | | _ ' | | | | V | VISORS | | | SECTIONS | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | , N | | | TYPE | | | | | | | | | | | | | | | | | | | | | | | |
| | | TYPE | LIMITE | LOUVERS | SS | SS | S> | SS LATE | LATE | LATE | LATE | LATI | LAT | | | | 12" | LFD | S | | | | SH DON' WALK | | 1TDOWN ATIONS | | ≻ | | | MOUNTING | | | | | | | |
| POLE | FACE | HEAD . | | | 3ACKPL, | | | 12" LEDS | | | | WALK | ∢ | /DW | COUNTDOWN INDICATIONS | <u>-</u> | CUTAWAY | | 1 | 2 | | | 3 | | 4 | | | 5 | | | | | | | | | |
| P(| | | OPT. | 0 | Ш | R | Υ | G | Y - | G - | G † | Y | G→ | * | 님 | /M | COUN | | 3 | Р | S | Р | S | _ | | P | М | S | Р | М | S | | | | | | |
| 1 | 71 | C | | | X | 1 1 | | | 1 | 1 1 | | | | | | | | 3 | | | | | | | X | + | + | \vdash | \vdash | \vdash | | | | | | | |
| | 41 | Α | | | Χ | 1 | 1 | 1 | | | | | | | | | | 3 | | | | | | V | X | 1 | # | | | | | | | | | | |
| 2 | 42 51 | <u>А</u> Н | | | X | 1 | 1 | 1 | 1 | 1 | | | | | | | | 3 5 | | | | | | | X | | 士 | | | | | | | | | | |
| | 21 | A | | | X | 1 1 | 1 1 | 1 1 | | | | | | | | | | 3 | | | _ | | | | X | + | + | \vdash | \vdash | \vdash | <u> </u> | | | | | | |
| | 23 | | | | Χ | 1 | 1 | 1 | | | | 1 | 1 | | | | | 5 | | | | | | | X | | \pm | 二 | | | | | | | | | |
| | 24 25 | K M | | | Χ | | l | l | | | | | | | | | 1 | 5 | | | | | _ | X | | | \pm | $oxed{\pm}$ | | | | | | | | | |
| 3 | 26 11 | Н | | | Χ | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | 5 | | | | | | X | | | + | _ | | | | | | | | | |
| 5 | 31 | С | | | Χ | 1 | ' | <u>'</u> | 1 | 1 | | | | | | | | 3 | | | | | | - | X | | \pm | | | | | | | | | | |
| | 32 81 | C A | | | X | 1 | 1 | 1 | | 1 | | | | | | | | 3 | | | | | | | X | + | + | + | \square | | | | | | | | |
| | 82 83 | A M | | | Χ | 1 | 1 | 1 | | | | | | | | | 1 | 3 | | | | | | X | | \perp | \perp | | | | | | | | | | |
| | 84 | М | | | | | | | | | | | | | | | 1 | | | | | | | Χ | | | 土 | | | | | | | | | | |
| | 65 | М | | | | | | | | | | | | | | | 1 | | | - | | | + | X | | + | + | + | H | \vdash | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | \mp | | | | | | | | | | |

| CONTROLLER AND EQUIPMENT | TOTALS |
|--|--------------|
| CABINET AND ACCESSORIES: NEMA TYPE P TS1 CABINET | -EXISTING- |
| CONTROLLER: TYPE 3608 M 52 EAGLE EPAC COMPLETE PER PLANS, INCLUDING SOFTWARE | -EXISTING- |
| EMERGENCY VEHICLE DETECTION SYSTEM (COMPLETE): 3M REMOVE FROM PRIVATE DRIVE FOR LOWENSTEIN | -1 |
| VIDEO DETECTION SYSTEM (COMPLETE): INSYNC ADAPTIVE TRAFFIC CONTROL SYSTEM | +1 INSYNC |
| FIBER DISTRIBUTION UNIT: | |
| 1-CIRCUIT POWER SUPPLY (UTILITY ENCLOSURE PEDESTAL) | 1 |
| GROUND RODS: REUSE EXISTING | 2 |
| PUSHBUTTON DETECTORS | 6 |
| FIBER OPTIC DATA LINK SWITCH: KYLAND SICOM 3170 | 1 |
| GROUND RODS | 6 |
| PUSHBUTTON DETECTORS | 5 |

| SIGNAL CONDUIT | | | | | | SIGNS | | | | | |
|----------------|---------------|-----------|----------------------|------------|----|---------|--------------|---------|-----|------------------------|--|
| FROM | TO | 3" PVC | 2" HDPE (GREY) | 4" HDPE | | SIGN | LEGEND | NO. | SF. | TOTAL S.F. | |
| 1 | Ø | 30 | | | 1 | R10-10L | LEFT TURN | 4 | 5.0 | 20.0 | |
| Ø | \boxtimes | | 11 | | 1 | R10-12 | LTYOG | 2 | 5.0 | 10.0 | |
| Ø | 1 | | 12 | | ۱, | R10-3F | PED_CROSSING | <u></u> | ~~~ | | |
| \boxtimes | 1 | | | 28 | /2 | R10-30 | IRTORMYTUÍ | 2 | 7.5 | 15.0 | |
| 1 | 1 | | | 4 | | D3-1(A) | NW PRYOR RD | 1 | 7.1 | 7.1 | |
| 1 | 2 | | | 98 | | R3-8 | LANE USAGE | 2 | | | |
| 2 | 2 | | | 10 | | R3-7 | RLMTL | 2 | | | |
| 1 | 3 | | | 69 | | | | | | | |
| 3 | 3 | | | 29 | | | | | | | |
| 3 | 4 | | | 68 | 1 | | | | | | |
| 4 | 4 | | | 14 | 1 | | | | | | |
| 4 | 5 | | | 65 |] | | | | | | |
| 5 | (5) | | | 14 | 1 | | | | | | |
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| | | | | | 4 | | | | | | |
| CUE | [| | | | 4 | | | | | | |
| (FE | TOTAL EET) | 30 | 23 | 399 | | TOTAL | | | | (52.1) | |
| BID - | TOTAL ET) | 40 | 30 | 410 | | | | | | | |

1057

1104 | 2873

1070 | 1110 | 2880

682

320

| Р — | POLE | MOUNTED | SIGNAL | HEAD |
|-----|------|---------|--------|------|

M - MAST ARM MOUNTED SIGNAL HEAD

14 14 10 10 6

st signal head spacing (feet) may be adjusted to site conditions as approved by the project inspector.

S — SPAN WIRE MOUNTED SIGNAL HEAD

1. QUANTITES SHOWN HEREON ARE FOR REFERENCE ONLY.

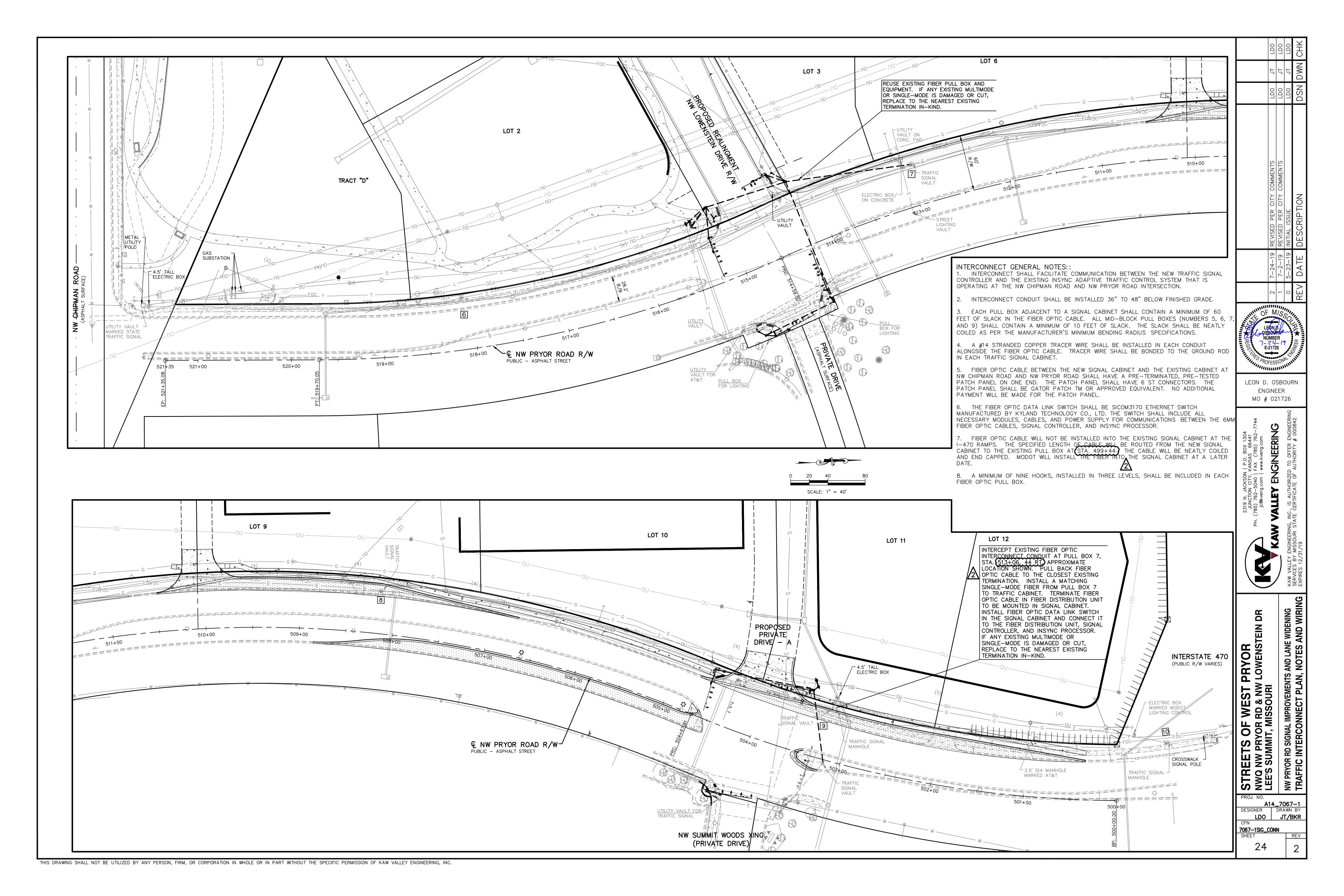
2. ALIGN FACES OF PEDESTRIAN PUSHBUTTONS PARALLEL TO CROSS-WALK.

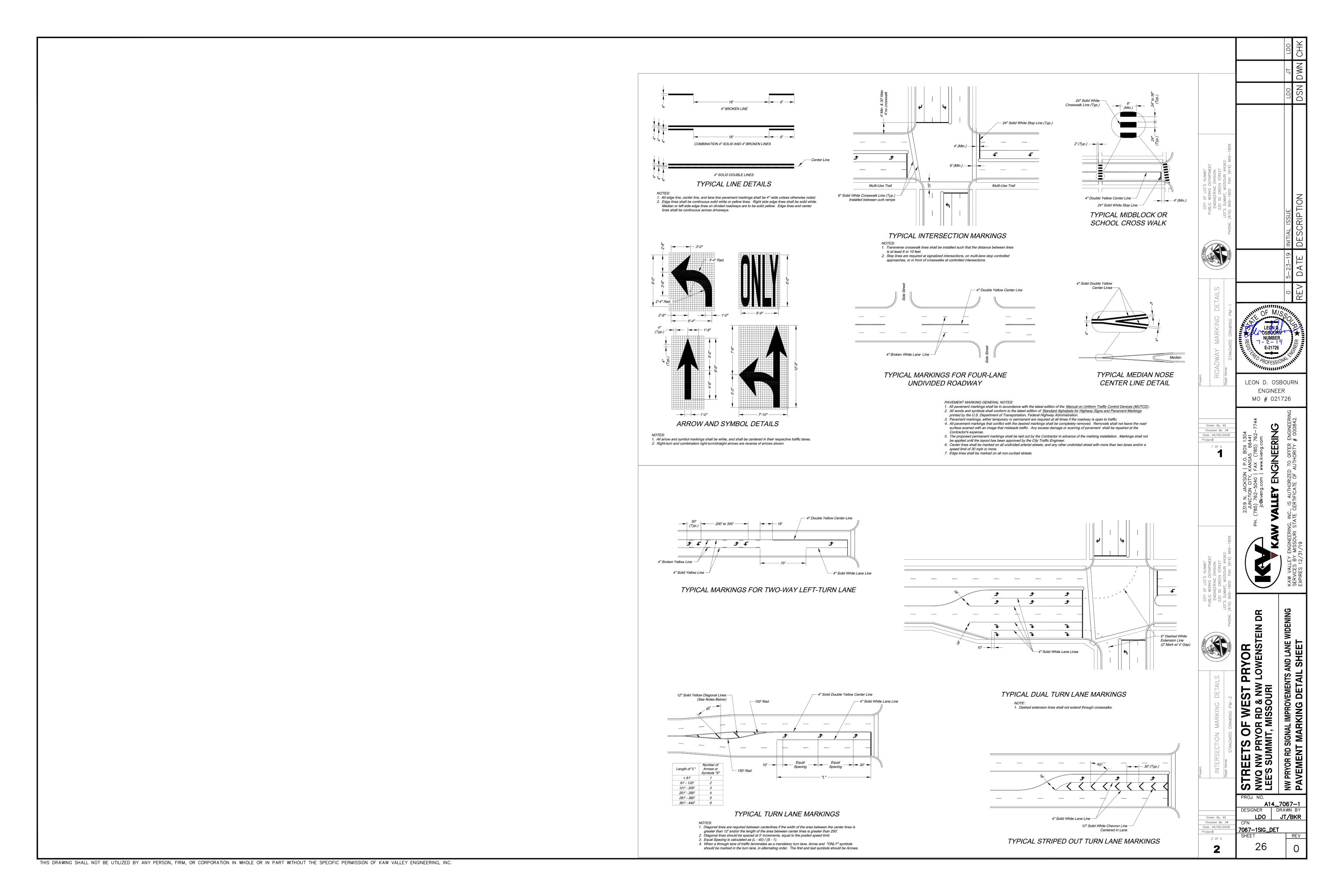
6

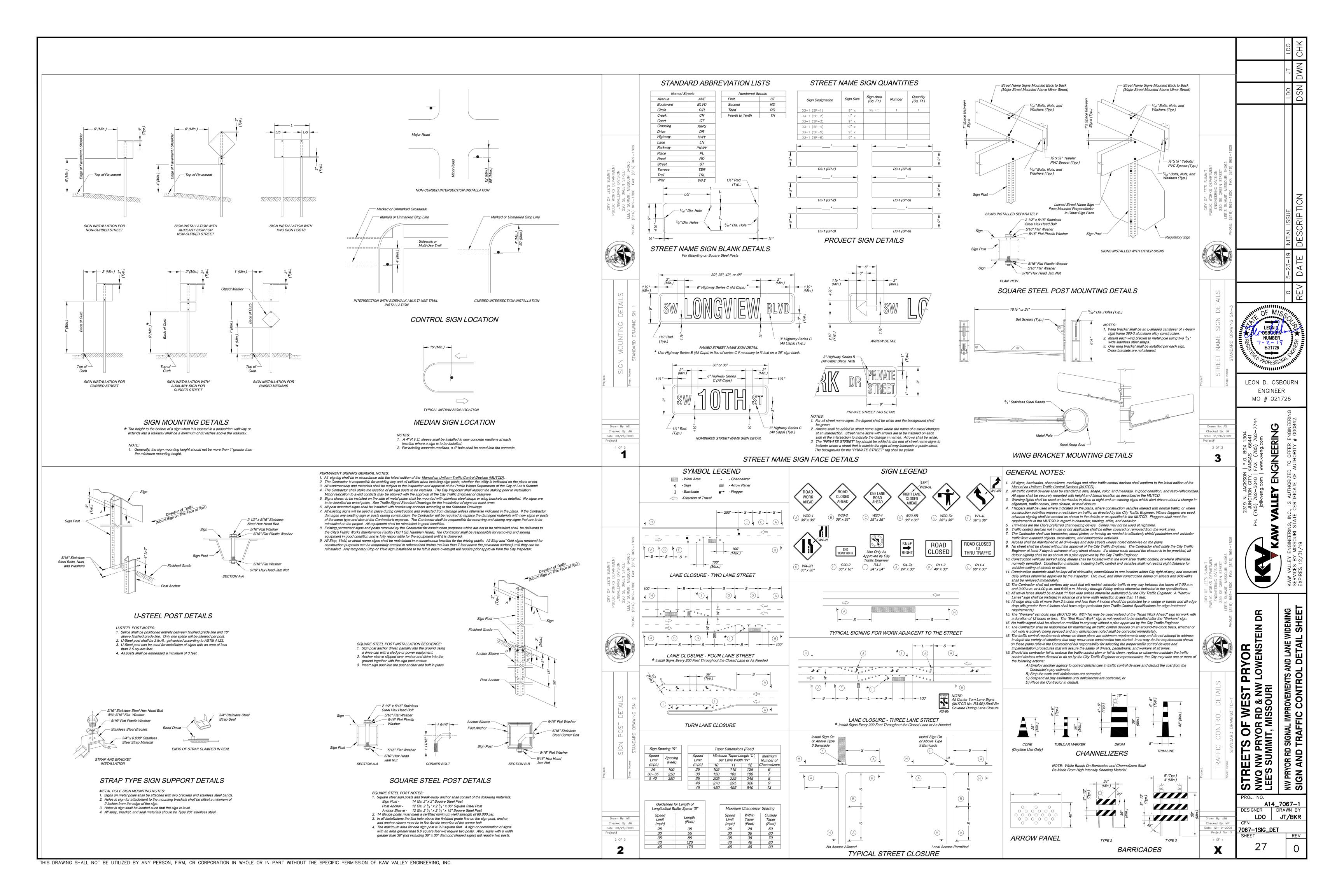
3. ALL PULL BOXES LOCATED IN TRAVEL WAY SHALL BE TRAFFIC RATED.

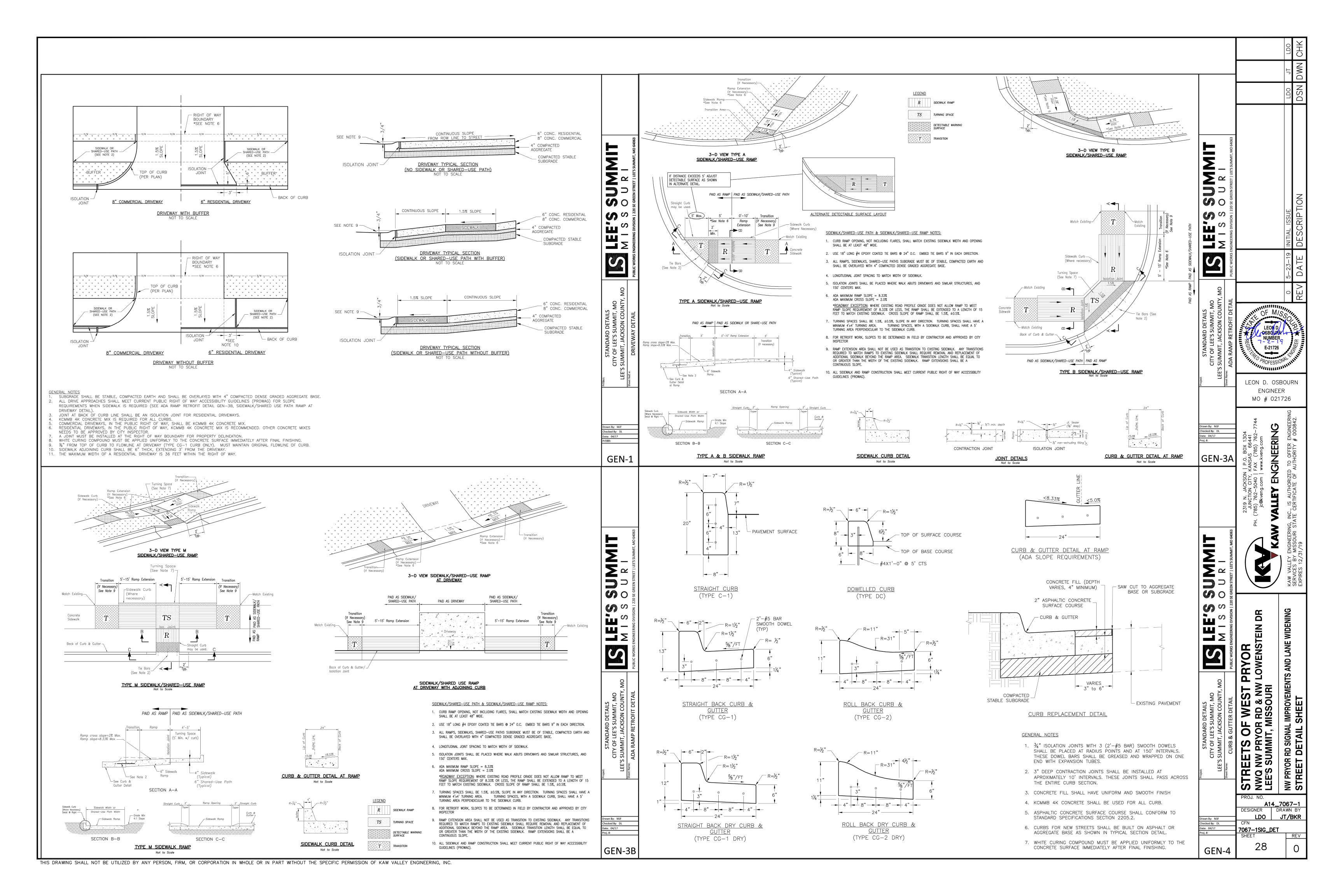
4. THE TRAFFIC SIGNAL SYSTEM SHALL BE COMPLETE AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SATISFACTORY OPERATION OF ELECTRICAL APPARATUS AND FOR COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

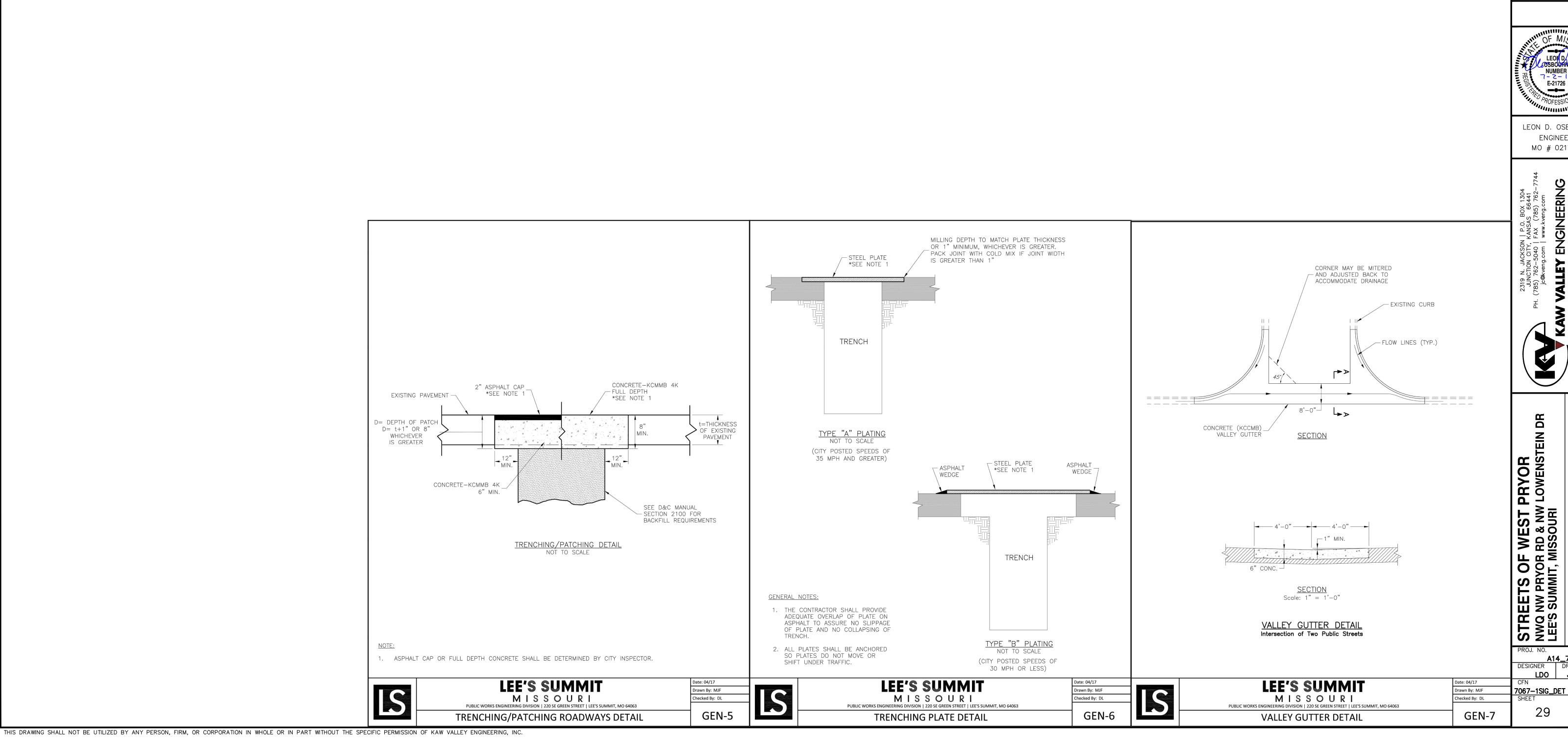
| | FIE | BER | OPTI | CINTER | RCONNECT | |
|----------|-------------------|--------------|----------------|----------------|-----------------------|---|
| | | (| CONDU | JIT & C | ABLE | |
| | \geq | | 2" | FIBER | #14 STRANDED | |
| | FROM | 2 - L((| HDPE RANGE) | OPTIC CABLE | COPPER IRACER WIRE | |
| <u> </u> | 7 | | 136 | 136 | 136 |) |
| | | | | | | |
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| | CUDIOI | | ~~~ | ~~~ | ~~~ | |
| | SUBTOT (FEET) |) \ | 136 | 136 | 136 | |
| | BID TOT (FEET) | | 150 | 150 | 150 | |
| | | | | | | |











LEON D. OSBOURN **ENGINEER**

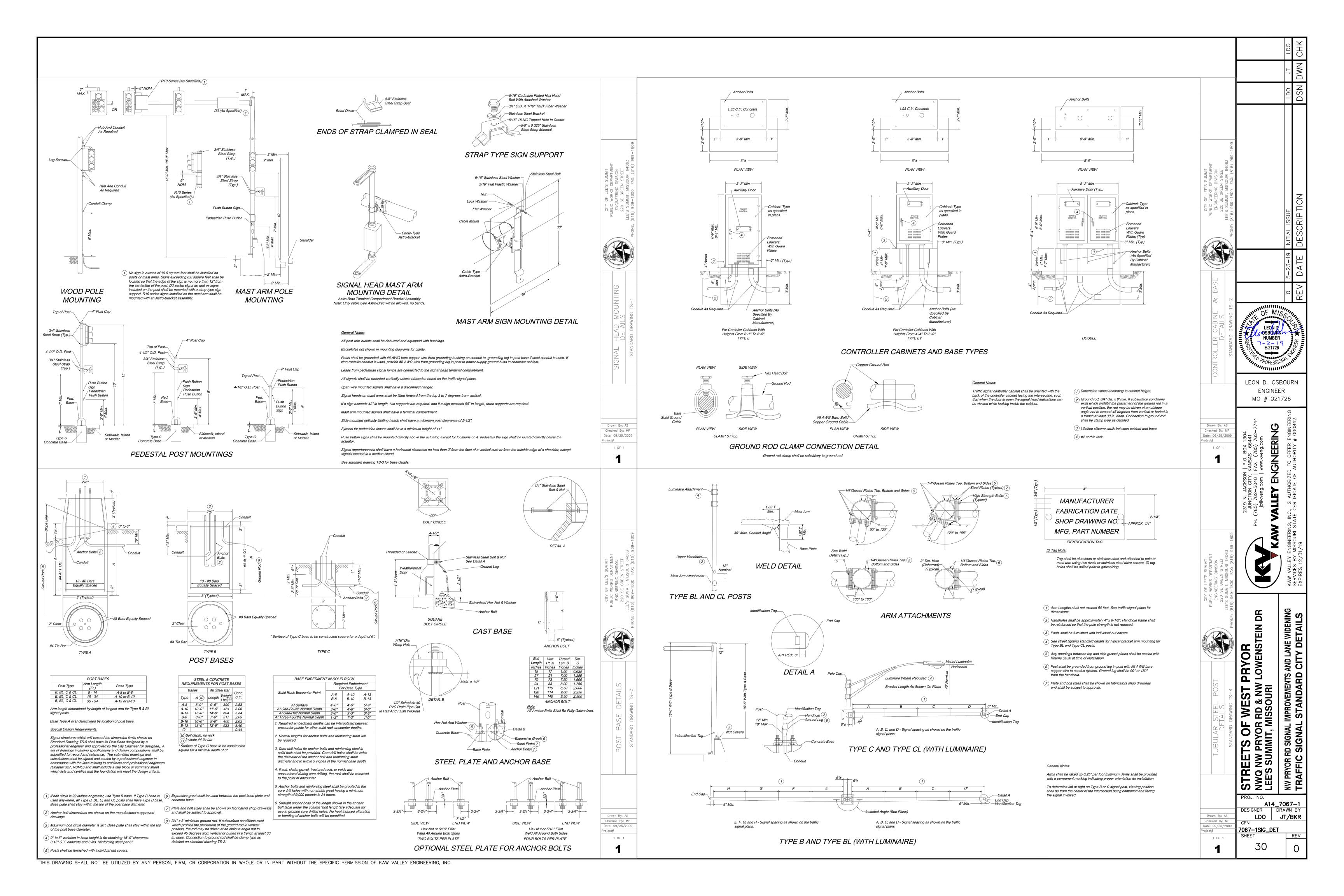
MO # 021726

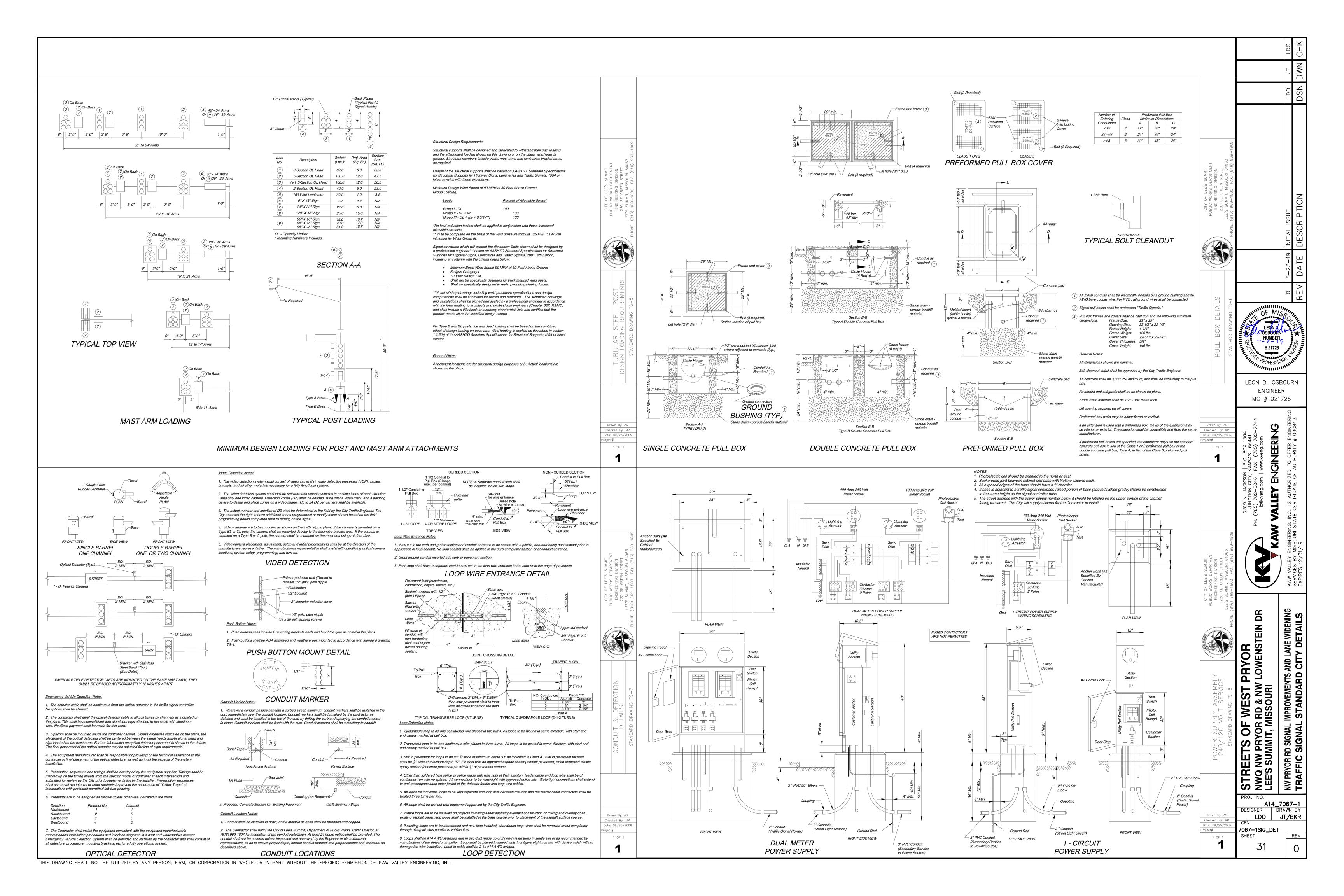
VALLEY ENGINEERING

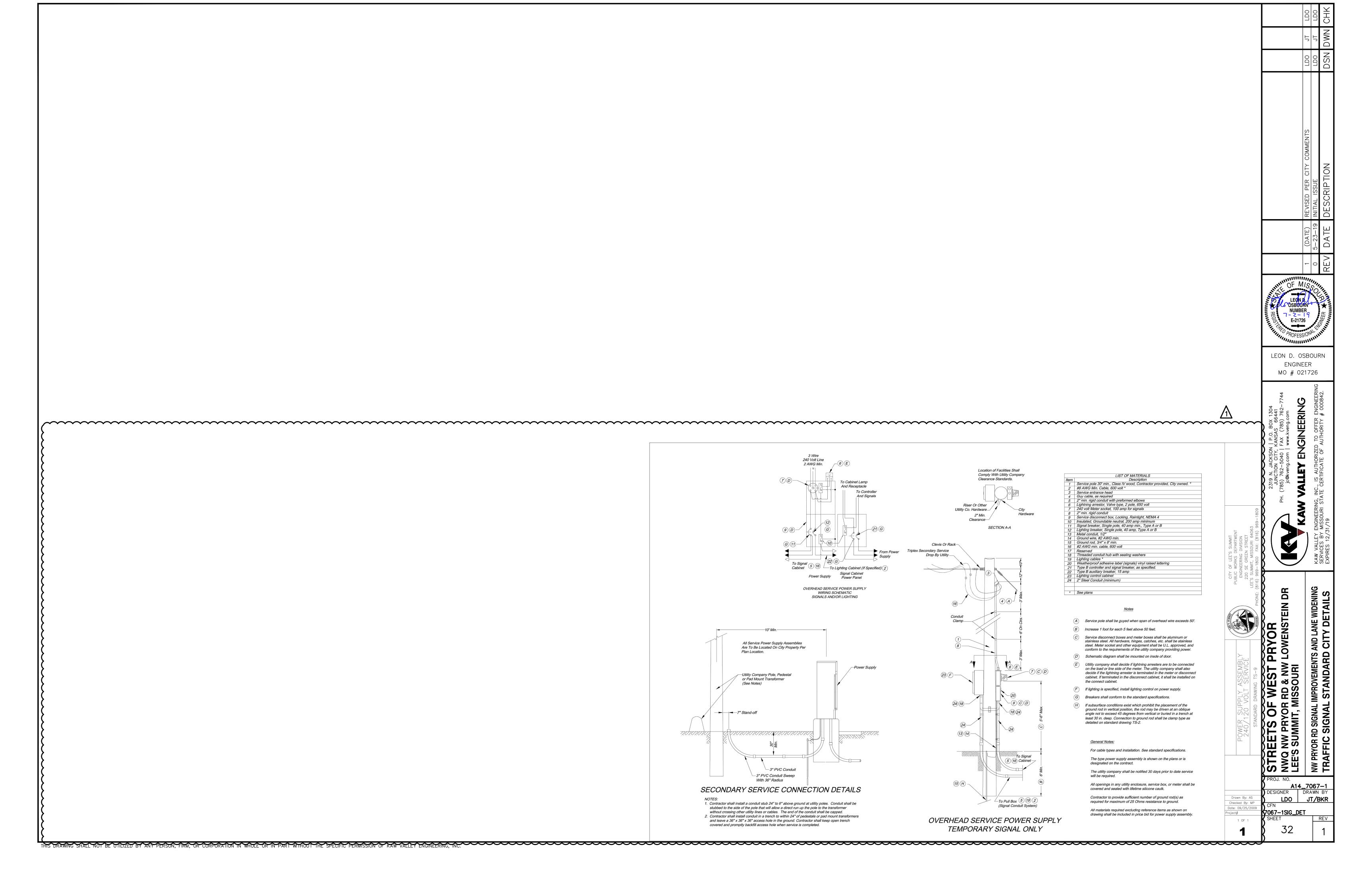
A14_7067-1

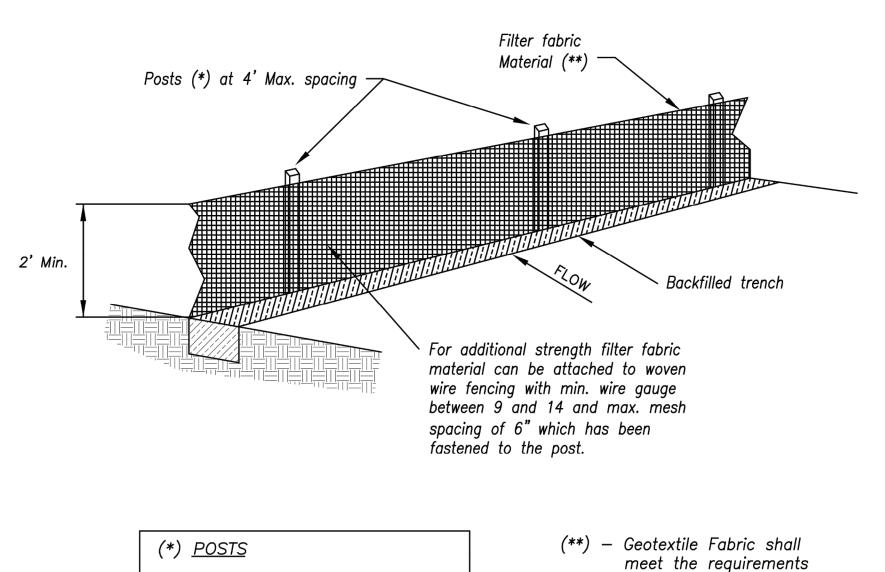
DESIGNER DRAWN BY

LDO JT/BKR







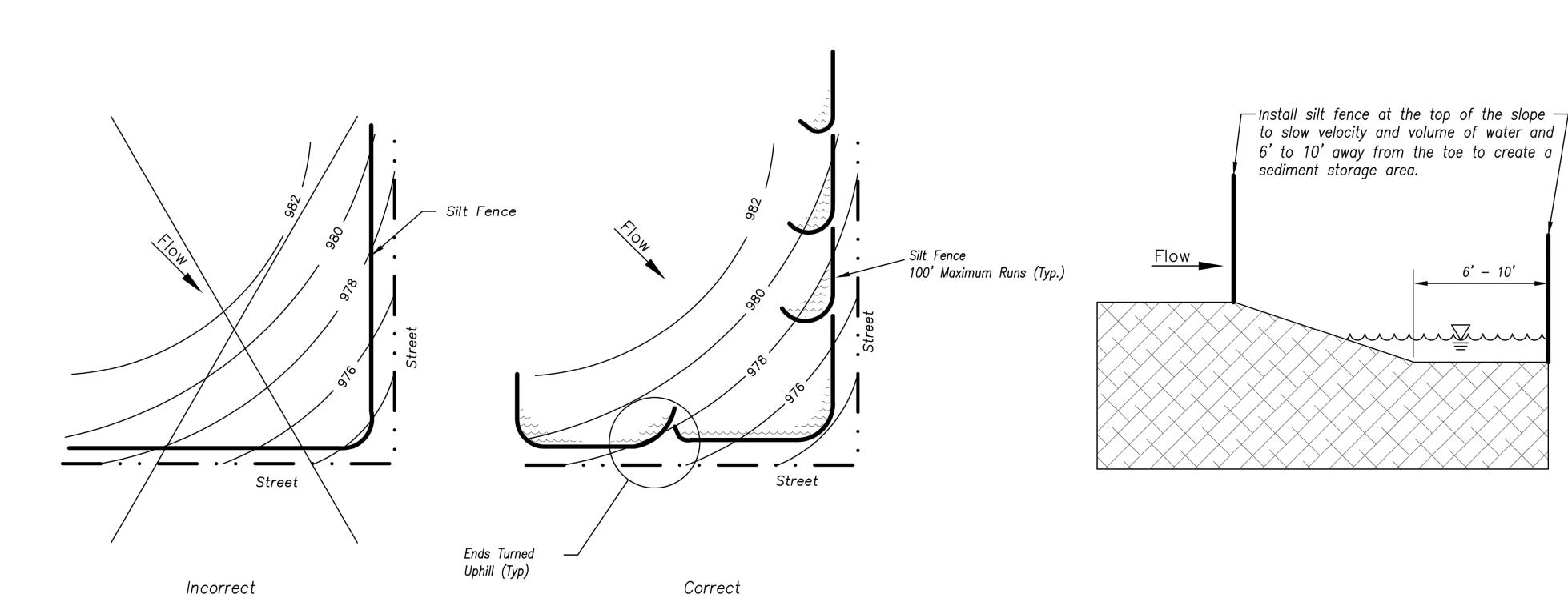


4' min length post Geotextile fabric at 4' max spacing . Staples, plastic zip ties or other material approved by the field engineer, (50 lb tensile strength) located in top 8" Tire compaction zone Direction of Flow 2' Min. Post embedment Machine slice (See Note 6.) 6" – 12" depth

- MIN, LENGTH 4'
- HARDWOOD 1 3/6" x 1 3/6"
- NO.2 SOUTHERN PINE 2 %" x 2 %" - STEEL 1.33 LB/FT

of AASHTO M288

SILT FENCE DETAILS Not to Scale



Not to Scale

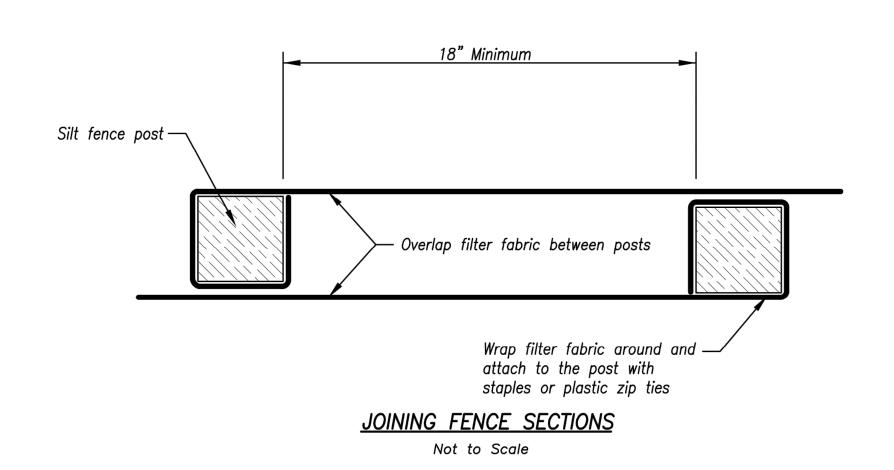
<u>Figure A</u> SILT FENCE LAYOUT

<u>Notes:</u>

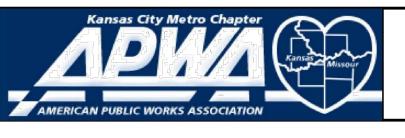
- 1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- 2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- 3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- 4. Attach fabric to upstream side of post.
- 5. Install posts a minimum of 2' into the ground.
- 6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably

<u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches $\frac{1}{3}$ the height of silt fence.
- 2. Repair as necessary to maintain function and structure.







KANSAS CITY

NUMBER ESC-03 SILT FENCE ADOPTED:

METRO CHAPTER

STANDARD DRAWING

10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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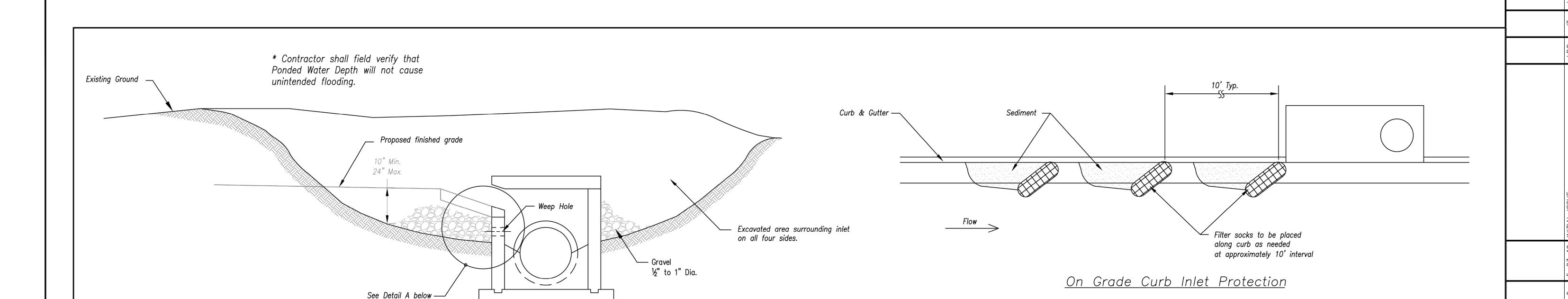
STREETS OF WEST PRYOR

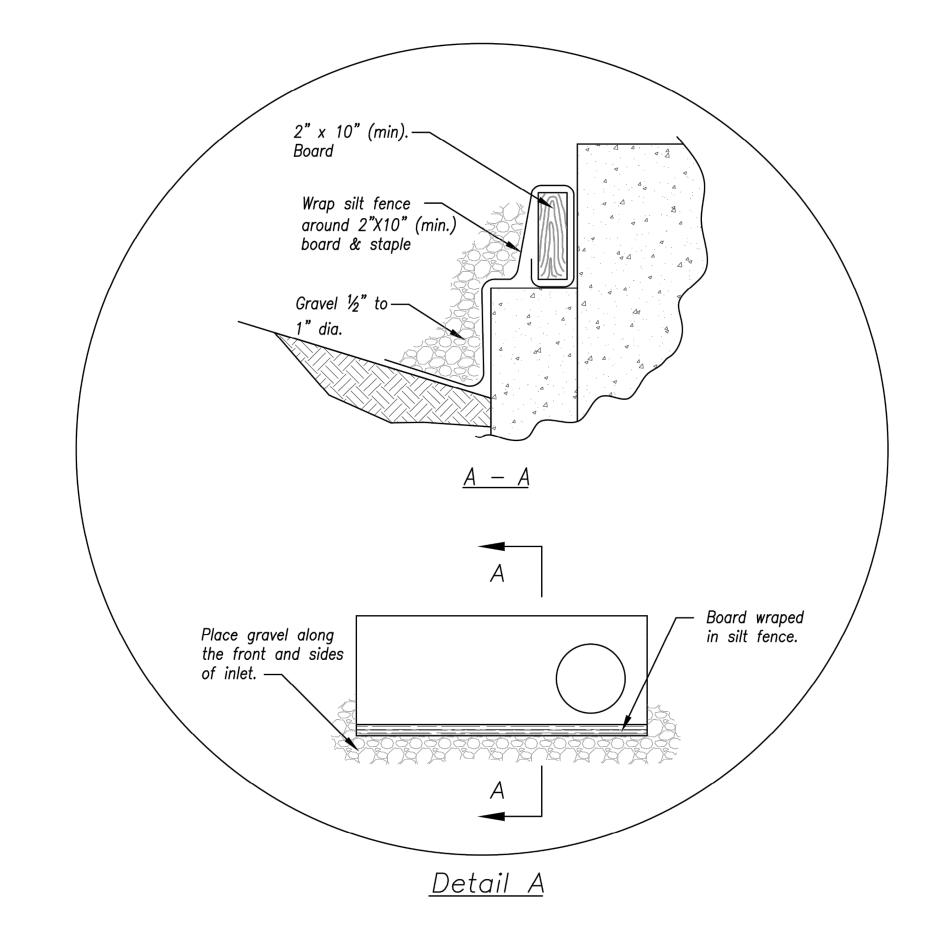
NWQ NW PRYOR RD & NW LOWENSTEIN DR

LEE'S SUMMIT, MISSOURI

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DESIGNER DRAWN BY LDO JT/BKR

7067-1SIG_DET
SHEET





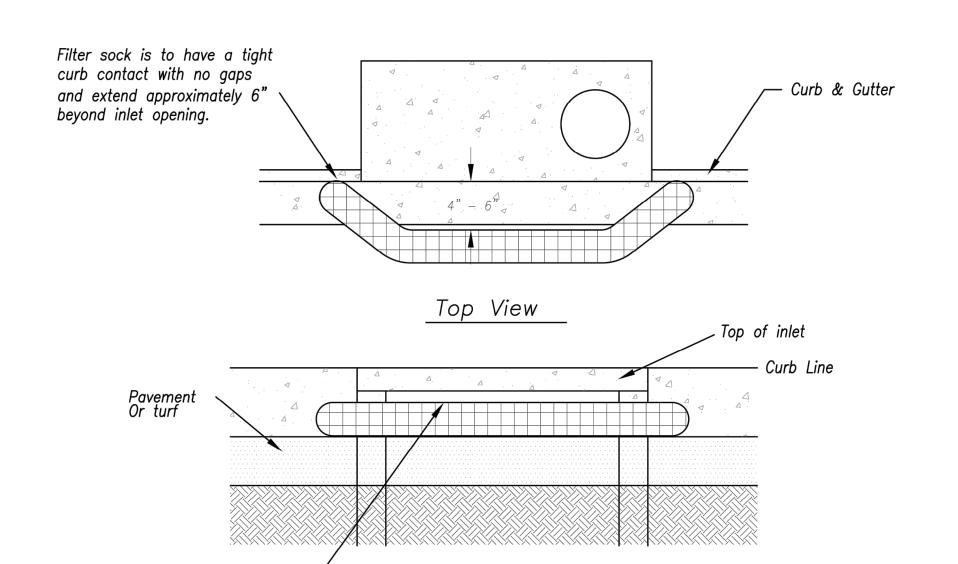
EARLY STAGE CURB INLET (Open Box and Prior to Pouring Curb and Inlet Throat)

<u>Notes:</u>

- Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
- 2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
- Contractor to field verify ponding water shall not create a traffic hazard.

<u>Maintenance:</u>

- 1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- 3. Repair or replace as necessary to maintain function and integrity



Sump Inlet Sediment Filter

Front View

LATE STAGE CURB INLET (After Pouring Curb and Inlet Throat)



KANSAS CITY METRO CHAPTER

STANDARD DRAWING NUMBER ESC-06 CURB INLET PROTECTION ADOPTED:

10/24/2016

A14_7067-1

DESIGNER DRAWN BY

LDO JT/BKR 7067-1SIG_DET SHEET

STREETS OF WEST PRYOR

NWQ NW PRYOR RD & NW LOWENSTEIN DR

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LEON D. OSBOURN

ENGINEER

MO # 021726

ENGINEERING

2319 N. JACKSON | P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 (785) 762-5040 | FAX (785) 762-jc@kveng.com | www.kveng.com

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Height of filter sock should not be above the top of the

