ITEM - 452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

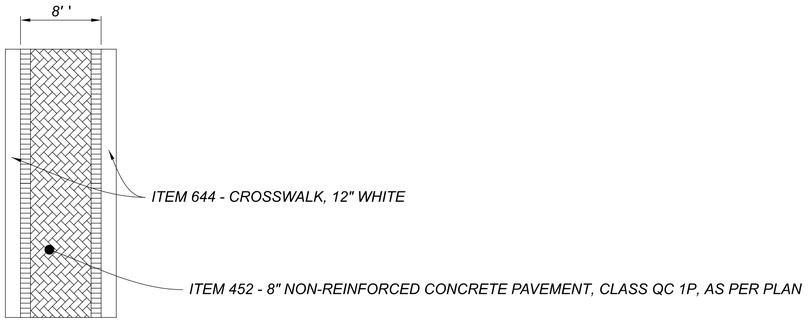
THIS ITEM CONSISTS OF CONSTRUCTION OF A STAMPED AND COLORED CONCRETE CROSSWALK CONFORMING TO ODOT CMS 452, INFORMATION INCLUDED BELOW AND ALL APPLICABLE MANUFACTURER'S REQUIREMENTS.

A CONCRETE PIGMENT SHALL BE ADDED TO THE CONCRETE TO PRODUCE A BRICK RED COLOR. THE CONTRACTOR SHALL SUBMIT THE TECHNICAL DATA AND COLOR SAMPLE OF THE CONCRETE TO THE ENGINEER FOR APPROVAL NO LESS THAN 14 BUSINESS WORKING DAYS PRIOR TO USE. AN APPROVED SET RETARDING ADMIXTURE CONFORMING TO 705.12 SHALL BE USED WHEN THE NOMINAL TEMPERATURE EXCEEDS 50 DEGREES F.

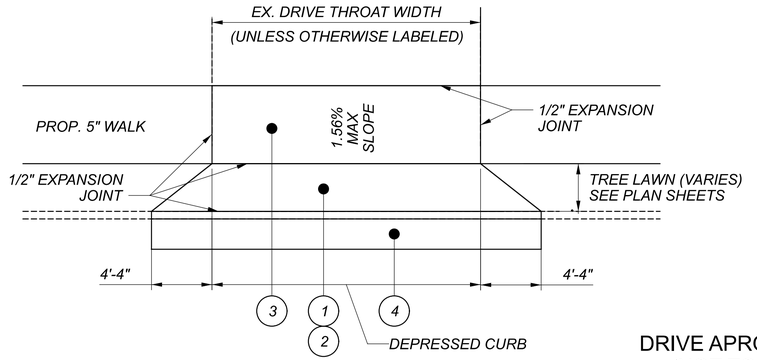
THE STAMP SHALL BE A FLEXIBLE URETHANE TYPE WITH A HARRINGBONE PATTERN WITH BORDER AND SHALL PRODUCE A SIMULATED BRICK TEXTURE. THE BRICKS SHALL HAVE A DIMENSION OF 4" X 8". THE CONTRACTOR SHALL SUBMIT A SAMPLE OF THE PATTERN TO THE ENGINEER FOR APPROVAL NO LESS THAN 14 DAYS PRIOR TO USE.

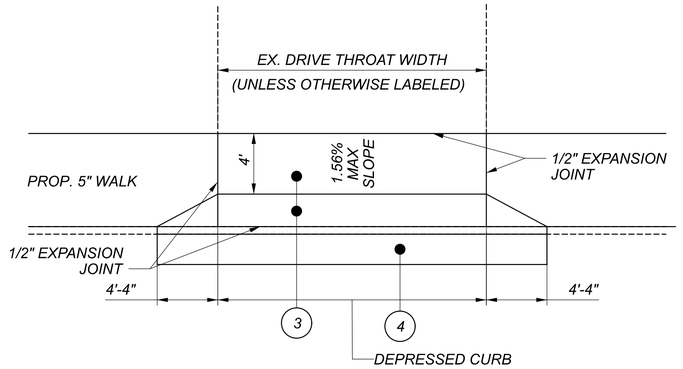
AFTER PLACEMENT OF THE CONCRETE, THE CONTRACTOR SHALL APPLY AN ACRYLIC BASED CONCRETE SEALER AND CURING AGENT. THE SEALER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE SEALER SHALL HAVE A MEDIUM TO HIGH GLOSS. THE CONTRACTOR SHALL SUBMIT THE BRAND NAME AND TECHNICAL DATA FOR THE CONCRETE SEALER TO THE ENGINEER FOR APPROVAL NO LESS THAN 14 DAYS PRIOR TO USE.

ALL MATERIALS, LABOR, EQUIPMENT AND OTHER EXPENSES ASSOCIATED WITH STAMPING AND COLORING THE CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 452, 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN.



8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

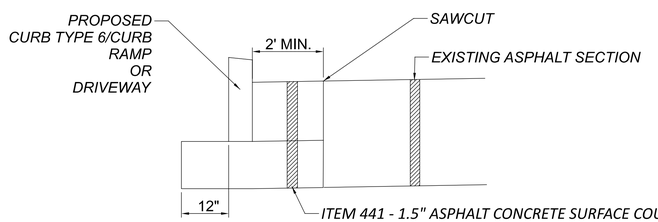




DRIVE APRON DETAILS
(NOT TO SCALE)

LEGEND

1. ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
2. ITEM 204 - SUBGRADE COMPACTION
3. ITEM 608 - 7" CONCRETE WALK
4. ITEM 253 - PAVEMENT REPAIR, AS PER PLAN
- (X) EXISTING SIDEWALK



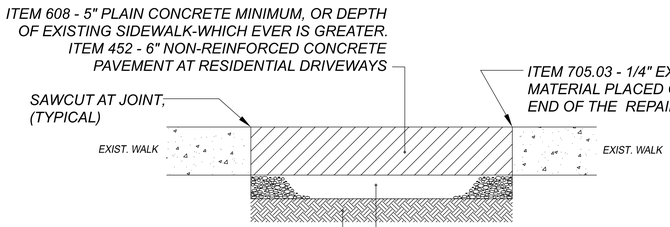
NOTES

1. FULL DEPTH SAWCUT SHALL BE TWO (2) FEET MINIMUM FROM THE EXISTING EDGE OF PAVEMENT AND TO SOUND PAVEMENT. PLAN DIMENSIONS FOR THE SAWCUT LINE ARE INCLUDED FOR REFERENCE ONLY AND SHALL BE ADJUSTED IF NECESSARY.

2. CONTRACTOR SHALL APPLY TACK COAT (0.06 GAL/SY) TO THE FACE OF THE SAWCUT PRIOR TO PLACING PAVEMENT. COST SHALL BE INCLUDED IN ITEM 407 - TACK COAT.

THE COST OF ALL LABOR AND MATERIALS SHALL BE INCLUDED UNDER ITEM 253, PAVEMENT REPAIR, AS PER PLAN

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN



NOTES:

1.) REPLACEMENT WALK SHALL MATCH THE LINE AND GRADE OF THE EXISTING WALK AND THE SAME JOINT PATTERN SHALL BE MAINTAINED. THE MINIMUM WIDTH TO BE REPLACED WILL BE TWO (2') FEET. THE ENGINEER SHALL MARK IN THE FIELD THE WALK TO BE REPLACED.

2.) DISTURBED YARD AREAS SHALL BE RESTORED TO GRADE.

3.) EXPANSION MATERIAL SHALL BE PLACED WHERE THE NEW WALK MEETS THE EXISTING WALK.

4.) THE COST OF ALL LABOR AND MATERIALS TO REMOVE AND REPLACE THE EXISTING WALK AND/OR DRIVEWAY AS DESCRIBED ABOVE SHALL BE INCIDENTAL TO THE FOLLOWING ITEMS, AS DIRECTED BY THE ENGINEER.

ITEM 608 - WALKWAY MISC.: 5" CONCRETE WALK	1000 S.F.
ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	60 S.Y.

REMOVE & REPLACE EXIST. WALK SECTION

CLE US 50/SR 28 0.83/0.00
TYPICAL SECTIONS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 4 TOTAL 43

CLE US 50/SR 28 0.83/0.00
MODEL: Sheet_Surv Ft PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:10:32 PM USER: kcollins
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UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

DUKE ENERGY GAS (DISTRIBUTION)
139 EAST 4TH ST., ROOM 460A
CINCINNATI, OH 45202
OH/KYHOUSEBILL@DUKE-ENERGY.COM

DUKE ENERGY GAS (TRANSMISSION)
139 EAST 4TH ST., ROOM 460A
CINCINNATI, OH 45202
OH/KYHOUSEBILL@DUKE-ENERGY.COM

DUKE ENERGY ELECTRIC
139 EAST 4TH ST., ROOM 460A
CINCINNATI, OH 45202
513-287-3932 (PATTY MEMERING)
PATTY.MEMERING@DUKE-ENERGY.COM

ALTAFIBER
209 WEST 7TH STREET
BLDG. 121-900
CINCINNATI, OHIO 45201
ROADPROJECTS@CINBELL.COM

CHARTER COMMUNICATIONS (SPECTRUM)
11252 CORNELL PARK DR
CINCINNATI, OH 45242
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM

MCI COMMUNICATIONS
8800 GOVERNORS HILL
CINCINNATI, OH 45201
254-721-8977 (BRUCE TURKIEWICZ)
BRUCE.TURKIEWICZ@VERIZONWIRELESS.COM

CITY OF MILFORD
745 CENTER ST
MILFORD, OH 45150
(513) 831-4192

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLAN.

THE OWNER OF THE UNDERGROUND FACILITY SHALL, WITHIN 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS), MARK THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE AND THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

COOPERATION WITH UTILITY COMPANIES

WHILE THE WORK OF THIS CONTRACT IS BEING PERFORMED, THE UTILITY COMPANIES MAY BE WORKING IN THE AREA ADJUSTING AND RESETTING EXISTING FACILITIES. THE CONTRACTOR SHALL FULLY COOPERATE WITH UTILITY COMPANIES SO THAT THE ENTIRE WORK IS COMPLETED IN A MANNER CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. THE CONTRACTOR, UTILITIES, AND ENGINEER SHALL DISCUSS THE NECESSARY CONSTRUCTION SCHEDULES TO COMPLETE THE PROJECT AT THE PRE-CONSTRUCTION MEETING.

ALL UTILITIES WHICH ARE SHOWN OR LOCATED DURING THE COURSE OF CONSTRUCTION THAT ARE FOUND TO BE IN CONFLICT WITH THESE PLANS ARE TO BE RELOCATED OR ADJUSTED BY THE OWNER OF THE UTILITY.

PROTECTING EXISTING UNDERGROUND UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING, MARKING, OR OTHERWISE DESIGNATING THE LOCATIONS OF THE UNDERGROUND UTILITIES IN THE CONSTRUCTION AREAS IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH OF WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF PLANNED CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN THE VICINITY OF THE EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ISOLATE, BRACE, SUPPORT, SHEET, ETC. AND PROTECT THE EXISTING UTILITY FROM MOVING EITHER HORIZONTALLY OR VERTICALLY. IF SUCH MOVEMENT DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPAIR THE UTILITY AT HIS EXPENSE. THE CONTRACTOR MAY ELECT TO REMOVE AND RECONSTRUCT PORTIONS OF THE EXISTING UTILITY AT HIS OWN EXPENSE IF HE SO DESIRES.

SHOULD AN UNLOCATED OR AN EXTREME VARIANCE IN LOCATION OF A UTILITY BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS.

DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE ENGINEER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICING HAS BEEN PROVIDED. COOPERATION WITH THE ENGINEER IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION IS ESSENTIAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING UTILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY AND REPLACE THE DAMAGED PORTION IMMEDIATELY, AND AT HIS EXPENSE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES (CONTINUED)

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: GPS-VRS
MONUMENT TYPE: IRON PINS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: US STATE PLANE 1983
ELLIPSOID: WGS 84
MAP PROJECTION: LAMPERT CONFORMAL
COORDINATE SYSTEM: OHIO SOUTH - 3402
COMBINED SCALE FACTOR: 1.0000801868
ORIGIN OF COORDINATE SYSTEM: 0.0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

PROPERTY POINTS AND SURVEY MONUMENTS

CARE SHALL BE TAKEN BY THE CONTRACTOR TO SAFEGUARD ANY PROPERTY POINTS OR OTHER SURVEY REFERENCE MARKS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESET ANY PROPERTY POINT OR SURVEY MONUMENT WHICH IS DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. THE PROPERTY POINTS AND SURVEY MONUMENTS SHALL BE RESET UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYER.

PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.

MANHOLES AND VALVES ADJUSTED TO GRADE (PRIVATELY OWNED)

ALL MANHOLES AND VALVES ENCOUNTERED IN AREAS THAT REQUIRE GRADE ADJUSTMENT WILL BE PERFORMED PRIOR TO THE APPLICATION OF THE SURFACE COURSE BY THE UTILITY OWNER. CONTACT THE UTILITY OWNER 2 WEEKS PRIOR TO WHEN THE ADJUSTMENTS ARE TO BE COMPLETED.

PROTECTION OF EXISTING TREES AND VEGITATION

THE CONTRACTOR SHALL PROTECT EXISTING TREES AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS, OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY FENCES, BARRICADES OR GUARDS AS REQUIRED TO PROTECT TREES AND VEGETATION. THE CONTRACTOR SHALL WATER TREES AND OTHER VEGETATION WITHIN THE CONSTRUCTION AREA TO MAINTAIN THEIR HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS. NO TREES SHALL BE REMOVED UNLESS APPROVED BY THE ENGINEER. PROVIDE PROTECTION FOR ROOTS OVER 1 1/2" DIAMETER THAT ARE CUT DURING CONSTRUCTION OPERATIONS. COAT AND CUT FACES WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATING, ESPECIALLY FOR MUTILATED OR HORTICULTURE USE ON CUT OR DAMAGED PLANT TISSUES. TEMPORARILY COVER ALL EXPOSED ROOTS WITH WET BURLAP TO PREVENT ROOTS FROM DRYING OUT. PROVIDE EARTH COVER AS SOON AS POSSIBLE.

THE CONTRACTOR SHALL REPAIR OR REPLACE TREES AND VEGETATION WHICH ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL TREES WHICH CANNOT BE REPAIRED AND RESTORED TO FULL-GROWTH STATUS, AS DETERMINED BY A TREE SURGEON, SHALL BE REPLACED.

CONSTRUCTION NOISE

THE PROJECT SHALL COMPLY WITH ALL LOCAL NOISE ORDINANCES

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ADA RAMP WAIVERS

ADA FEATURE	APPROVAL DATE	SHEET #	DESIGNATION	COMPONENT
RMP0028748	3/-/25	9	C2	RAMP
RMP0028755	3/-/25	11	C5	LANDING
RMP0028762	3/-/25	11	C6	RAMP
RMP0028751	3/-/25	13	C8	LANDING

CLE US 50/SR 28 0.83/0.00
GENERAL NOTES

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 5 TOTAL 43

CLE US 50/SR 28 0.83/0.00
MODEL: Sheet_Survft PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:10:32 PM USER: kcollins
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SHOP DRAWINGS

THE PROJECT SHALL MEET THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND DETAILS OUTLINED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW ONLY FOR DEVIATIONS FROM WHAT IS SPECIFIED ON THESE PLANS. SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW UNDER THESE CONDITIONS SHALL CLEARLY IDENTIFY THEAREAS THAT DIFFER FROM THE STANDARDS CALLED OUT IN THE CONSTRUCTION DOCUMENTS AND/OR DETAILS.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST
2 EACH

659, REPAIR SEEDING AND MULCHING
62 SQ. YD.

659, COMMERCIAL FERTILIZER
0.17 TON

659, LIME
0.26 ACRES

659, WATER
7 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

SOLE SOURCE AQUIFER

THIS PROJECT IS LOCATED WITHIN THE GREATER MIAMI SOLE SOURCE AQUIFER AS WELL AS THE MILFORD CITY PUBLIC WATER SYSTEM ON SR 28 FROM SLM 0.00 TO 0.27 AND ON US 50 FROM SLM 37.03 TO 37.23. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO THE MILFORD WATER DEPARTMENT 513-831-6819. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), CONTACT THE MILFORD COMMUNITY FIRE DEPARTMENT 513-831-7777 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

NO CLEARING OR GRUBBING SHALL OCCUR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS.

CONSTRUCTION LIMITS

THE CONTRACTOR SHALL RESTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE ACTUAL CONSTRUCTION LIMITS ARE SHOWN ON THE PLANS OR EXISTING OR TEMPORARY RIGHT OF WAY, WHICHEVER IS NEAREST. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, THE CONTRACTOR MUST SUBMIT THE REQUEST IN WRITING TO THE ENGINEER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE ENGINEER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL REVIEW AND RECORD ALL ADJACENT SITES WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). CONTRACTOR SHALL SUBMIT DOCUMENTATION OF EXISTING CONDITIONS TO THE ENGINEER AND THE MAINTAINING AGENCY FOR APPROVAL. A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF THE ADJACENT SITES WILL BE MADE. ANY AREAS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. COST FOR DOCUMENTING EXISTING CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

RESTORATION OF DISTURBED AREAS

THE CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPED AREAS AND PAVEMENT SURFACES TO A CONDITION EQUAL TO, OR BETTER THAN THAT WHICH EXISTED PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PERFORM ALL RESTORATION WITH MATERIALS IDENTICAL TO THE EXISTING SURFACE. THE CONTRACTOR SHALL PERFORM ALL RESTORATION WORK IN ACCORDANCE WITH THE PERTINENT SPECIFICATION ITEMS AS DIRECTED BY THE ENGINEER. ALL RESTORATION WORK, INCLUDING MATERIALS, EQUIPMENT, LABOR, INCIDENTALS, AND DISPOSAL OF THE SURPLUS MATERIALS ARE CONSIDERED AS INCIDENTAL TO THE VARIOUS ITEMS OF UNDERGROUND WORK UNLESS SPECIFICALLY MARKED IN THE PLANS.

5" CONCRETE WALK, AS PER PLAN

ALL RESTORATION ASSOCIATED WITH THE PLACEMENT OF THE CONCRETE WALK SHALL BE INCIDENTAL TO ITEM 609 - 5" CONCRETE WALK, AS PER PLAN. THESE ITEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO, TOPSOIL, SEEDING AND MULCHING, EXCAVATION, AND EMBANKMENT AS DIRECTED BY THE ENGINEER.

ITEM 202 CONCRETE WALK REMOVED, AS PER PLAN

THE REMOVAL FOR THE CONCRETE WALK/CURB RAMP SHALL INCLUDE THE CONRETE WALK/CURB RAMP AND ANY MATERIALS BELOW THE WALK NEEDED TO BE REMOVED IN ORDER TO OBTAIN THE PROPER SUBGRADE ELEVATION FOR THE NEW CONCRETE WALK/CURB RAMP TO BE PLACED.

ITEM 202 CURB REMOVED, AS PER PLAN

THE REMOVAL FOR THE CURB SHALL INCLUDE THE CURB AND ANY MATERIALS BELOW THE CURB NEEDED TO BE REMOVED IN ORDER TO OBTAIN THE PROPER ELEVATION FOR THE NEW CURB TO BE PLACED.

MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:10:33 PM USER: kcollins
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DESIGN AGENCY
KLEINGERS GROUP
DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 6 TOTAL 43

630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBS (IA-21).

GENERAL REQUIREMENTS -

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

FUNCTIONAL REQUIREMENTS -

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT.

MATERIALS -

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

1. RRFB INDICATIONS

   A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.

   B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.

   C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.

   D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.

   E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.

   F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.

   G. An LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

   H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.

2. SIGNS

   A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.

   B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.

   C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.

   D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

3. CONTROL CIRCUIT

   A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP T TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.

   B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.

   C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

3. CONTROL CIRCUIT

   A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP T TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.

   B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.

   C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

4. BATTERY AND SOLAR PANELS

   A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.

   B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.

   C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES - 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.

   D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

5. WIRELESS RADIO

   A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.

   B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.

   C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

6. PUSHBUTTON

   A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.

   B. PUSHBUTTON SHALL BE ADA COMPLIANT.

7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION -

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY -

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE.

MEASUREMENT -

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

PAYMENT -

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

CLE US 50/SR 28 0.83/0.00
MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:10:33 PM USER: kcollins
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DESIGN AGENCY
KLEINGERS GROUP
DESIGNER KJC
REVIEWER TSC 1/31/25
PROJECT ID 117210
SHEET 6A TOTAL 43

ITEM 614, MAINTAINING TRAFFIC (US 42)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIME BY USE OF EXISTING PAVEMENT EXCEPT ONE LANE CAN BE CLOSED ON US 50 FROM 10 AM TO 4 PM. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $105 FOR EACH MINUTE THE ABOVE LANE CLOSURE RESRICTIONS ARE VIOLATED. MAINTAIN ANY RESIDENTIAL OR COMMERCIAL ACCESS. RESTRICTIONS MUST BE LIMITED TO THE HOURS OF 10 AM AND 4 PM AND REQUIRE A 48 HOURS ADVANCE WRITTEN NOTICE TO THE ENGINEER, THE CITY AND THE OWNER/OCCUPANT AFFECTED.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTAINANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALLOWED WORK HOURS ARE FROM 8 AM TO 6 PM, MONDAY THROUGH SATURDAY, ON US 50.

ITEM 614, MAINTAINING TRAFFIC (SR 28)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIME BY USE OF EXISTING PAVEMENT EXCEPT ONE LANE CAN BE CLOSED ON SR 28 FROM 10 AM TO 4 PM. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $110 FOR EACH MINUTE THE ABOVE LANE CLOSURE RESRICTIONS ARE VIOLATED. MAINTAIN ANY RESIDENTIAL OR COMMERCIAL ACCESS. RESTRICTIONS MUST BE LIMITED TO THE HOURS OF 10 AM AND 4 PM AND REQUIRE A 48 HOURS ADVANCE WRITTEN NOTICE TO THE ENGINEER, THE CITY AND THE OWNER/OCCUPANT AFFECTED.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTAINANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALLOWED WORK HOURS ARE FROM 8 AM TO 6 PM, MONDAY THROUGH SATURDAY, ON SR 28.

ITEM 614, MAINTAINING TRAFFIC

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:.

NEW YEAR'S (OBSERVED)
GENERAL/REGULAR ELECTION DAY (NOV)
THANKSGIVING
MEMORIAL DAY
CHRISTMAS (OBSERVED)
FOURTH OF JULY (OBSERVED)
LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT — TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY 12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY 12:00N MONDAY THROUGH 6:00AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION) 12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY 12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY 12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY (THANKSGIVING ONLY) 6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY 12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDSTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	≥ 2 WEEKS	21 CALENDER DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDER DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	≥ 2 WEEKS	14 CALENDER DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDER DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONSSHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW SHALL NOT BE PERMITTED AT PROJECT COST NOR TIME COMPENSATION. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

DURING PERIODS WHERE TRAFFIC NEEDS TO BE DIRECTED CONTRARY TO A TRAFFIC CONTROL DEVICE (FLAGGER, SIGN [E.G. STOP SIGN, STREET OR HIGHWAY SIGNS, ETC], SIGNAL OR OTHER DEVICE USED TO REGULATE, WARN OR GUIDE TRAFFIC). TRAFFIC IN THIS INSTANCE INCLUDES VEHICULAR, PEDESTRIAN AND/OR SHARED USE PATH USERS.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES THAT MEET ALL OF THE CRITERIA LISTED BELOW: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

CRITERIA
. ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
. AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
. AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS AND/OR IN CONTRARY TO OTHER TRAFFIC CONTROL DEVICE IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE SHIFT DURATION SHALL NOT BE LESS THAN THE LEOâ??S MINIMUM SHOW-UP TIME REQUIRED BY THEIR LAW ENFORCEMENT AGENCY.THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 8 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

CLE US 50/SR 28 0.83/0.00
MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 7 TOTAL 43

CLE US 50/SR 28 0.83/0.00
MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:10:34 PM USER: kcollins
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SHEET NUM.															PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
4	6	7	8A	9	10	11	12	13	14	15	16	17	32	33	01/TOTAL		EXT	TOTAL			SHEET NO.
																				ROADWAY	
				18	99	271	183	184	171	303	184	212			1,625	202	23000	1,625	SY	PAVEMENT REMOVED	
				2,252	2,828	2,818	3,611	3,171	1,694	3,208	4,052	1,670			25,304	202	30001	25,304	SF	WALK REMOVED, AS PER PLAN	6
				101	86	345	193	270	211	311	191	199			1,907	202	32001	1,907	FT	CURB REMOVED, AS PER PLAN	6
				1,917	2,828	2,296	3,611	2,324	2,671	3,082	5,327	1,238			25,294	608	12001	25,294	SF	5" CONCRETE WALK, AS PER PLAN	6
					494	1,112	917	721	565	1,328	493	769			6,399	608	13020	6,399	SF	7" CONCRETE WALK	
				306		629		852	311	573		85			2,756	608	52000	2,756	SF	CURB RAMP	
1,000															1,000	608	98000	1,000	SF	WALKWAY, MISC.:5" CONCRETE WALK	4
				1		3	5	4	2	3	1				19	638	10800	19	EACH	VALVE BOX ADJUSTED TO GRADE	
																				EROSION CONTROL	
	2														2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	62														62	659	14000	62	SY	REPAIR SEEDING AND MULCHING	
	0.17														0.17	659	20000	0.17	TON	COMMERCIAL FERTILIZER	
	0.26														0.26	659	31000	0.26	ACRE	LIME	
	7														7	659	35000	7	MGAL	WATER	
															10,000	832	30000	10,000	EACH	EROSION CONTROL	
																				PAVEMENT	
				18	20	77	44	65	48	78	44	46			440	253	01001	440	SY	PAVEMENT REPAIR, AS PER PLAN	4
					25	69	39	42	62	76	88	81			482	452	10010	482	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
60															60	452	10011	60	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	4
						40									40	452	12011	40	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	4
				14	86	268	193	186	173	232	191	183			1,526	609	26000	1,526	FT	CURB, TYPE 6	
																				LIGHTING	
													1,228	655	1,883	625	25409	1,883	FT	CONDUIT, 2", 725.051, AS PER PLAN	34
													51	40	91	625	25909	91	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2"	34
													1,228	655	1,883	625	29010	1,883	FT	TRENCH, 30" DEEP	
													4	4	8	625	31600	8	EACH	PULL BOX, MISC.: DUKE PULL BOX, INSTALLATION ONLY	34
													1,228	655	1,883	625	36010	1,883	FT	UNDERGROUND WARNING/MARKING TAPE	
															208,077	625	98000	208,077	EACH	LIGHTING, MISC.: DUKE ENERGY LIGHTING	34
																				TRAFFIC CONTROL	
			4												4	625	32000	4	EACH	GROUND ROD	
			244												244	630	03100	244	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			1												1	630	08600	1	EACH	SIGN POST REFLECTOR	
			86												86	630	80100	86	SF	SIGN, FLAT SHEET	
			5												5	630	84900	5	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			6												6	630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
			7												7	630	86002	7	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			1												1	630	87520	1	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	
			4												4	630	97700	4	EACH	SIGNING, MISC.:SOLAR POWERED RRFB SIGN ASSEMBLY	4
			4												4	632	64020	4	EACH	PEDESTAL FOUNDATION	
						12									12	644	00500	12	FT	STOP LINE	
						56									56	644	00620	56	FT	CROSSWALK LINE, 12"	
						40				40					80	644	20800	80	FT	YIELD LINE	
						78									78	644	30000	78	FT	REMOVAL OF PAVEMENT MARKING	
																				MAINTENANCE OF TRAFFIC	
		8													8	614	11110	8	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
																				INCIDENTALS	
															LS	614	11000	LS		MAINTAINING TRAFFIC	
															LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
															LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

CLE US 50/SR 28 0.83/0.00

MODEL: Sheet_Surv1 PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:10:35 PM USER: kcollins
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DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	8
TOTAL	43

REF NO.	SHEET NO.	STATION TO STATION					SIGN CODE	SIZE (INCHES)	625	630	630	630	630	630	630	630	630	632
									GROUND ROD	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	SIGNING, MISC.:SOLAR POWERED RECTANGULAR FLASHING BEACON (RRFB) SIGN ASSEMBLY	PEDESTAL FOUNDATION
				TO					EACH	FT	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH
SN1	10	17+90	RT		17+50	RT				14				2	1			
SN2	10	18+18	RT				W11-2L	36 x 36		34		9						
							W16-9P	24 x 12				2						
SN3	11	19+65	RT				R1-5	36 x 36		14		9						
SN4	11	19+85	RT		20+20	RT				16	1			3	2			
SN5		NOT USED																
SN6	11	20+35	RT						1								1	1
SN7	11	20+35	LT						1								1	1
SN8	11	20+74	LT				R1-5	36 x 36		14		9						
SN9	11	22+45	LT				W11-2L	36 x 36		34		9						
							W16-9P	24 x 12				2						
SN10	11	22+45	LT		23+56	LT										1		
SN11	15	106+40	RT				W11-2L	36 x 36		34		9						
							W16-9P	24 x 12				2						
SN12	15	107+50	RT							13				1	1			
SN13	15	107+98	RT				R1-5	36 x 36		14		9						
SN14	15	108+60	RT										1		1			
SN15	15	108+66	RT						1								1	1
SN16	15	108+66	LT						1								1	1
SN17	15	108+66	LT										1		1			
SN18	15	108+75	C				R1-6	12 x 36				3	2					
							R1-6	12 x 36				3						
SN19	15	109+34	LT				R1-5	36 x 36		14		9						
SN20	16	111+05	LT				W11-2L	36 x 36		34		9						
							W16-9P	24 x 12				2						
SN21	17	118+22	RT										1		1			
TOTALS CARRIED TO GENERAL SUMMARY									4	235	1	86	5	6	7	1	4	4

SIGNING SUBSUMMARY

DESIGN AGENCY
THE KLEINGERS GROUP

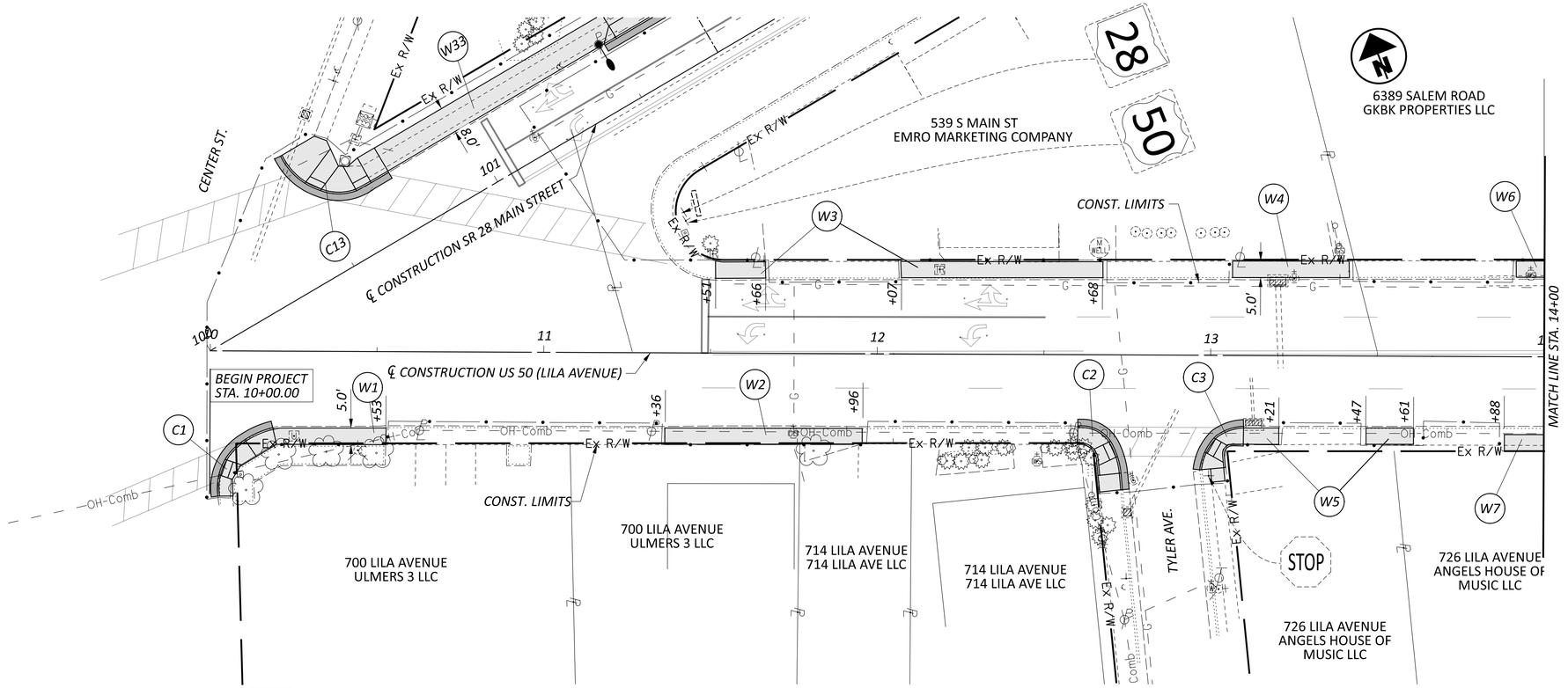
DESIGNER
KJC

REVIEWER
TSC 01/31/25

PROJECT ID
117210

SHEET 8A | TOTAL 43

CLE US 50/SR 28 0.83/0.00



REF NO.	SHEET NO.	STATION TO STATION					PAVEMENT REMOVED (202) SY	WALK REMOVED, AS PER PLAN (202) SF	CURB REMOVED, AS PER PLAN (202) FT	PAVEMENT REPAIR, AS PER PLAN (253) SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 (452) SY	5" CONCRETE WALK, AS PER PLAN (608) SF	7" CONCRETE WALK (608) SF	CURB RAMP (608) SF	CURB, TYPE 6 (609) FT	VALVE BOX ADJUSTED TO GRADE (638) EACH
				TO												
C1	9	10+01.68	RT		10+18.36	RT	7	130	32	7		42		88	9	
C2	9	12+60.24	RT		12+75.72	RT	6	195	49	6		32		134	5	
C3	9	12+95.87	RT		13+09.92	RT	5	100	20	5		16		84		
W1	9	10+12.39	RT		10+96.44	RT		376				376				
W2	9	11+36.42	RT		11+95.27	RT		282				282				
W3	9	11+51.43	LT		12+67.59	LT		368				368				
W4	9	13+06.47	LT		13+41.46	LT		173				173				
W5	9	13+09.91	RT		13+60.90	RT		123				123				
W6	9-10	13+91.54	LT		14+33.93	LT		209				209				1
W7	9-10	13+88.19	RT		14+47.32	RT		296				296				
TOTALS CARRIED TO GENERAL SUMMARY							18	2252	101	18		1917		306	14	1

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) PLAN
STA. 10+00 TO STA. 14+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER TSC
REVIEWER SEF 01/31/25
PROJECT ID 117210
SHEET 9 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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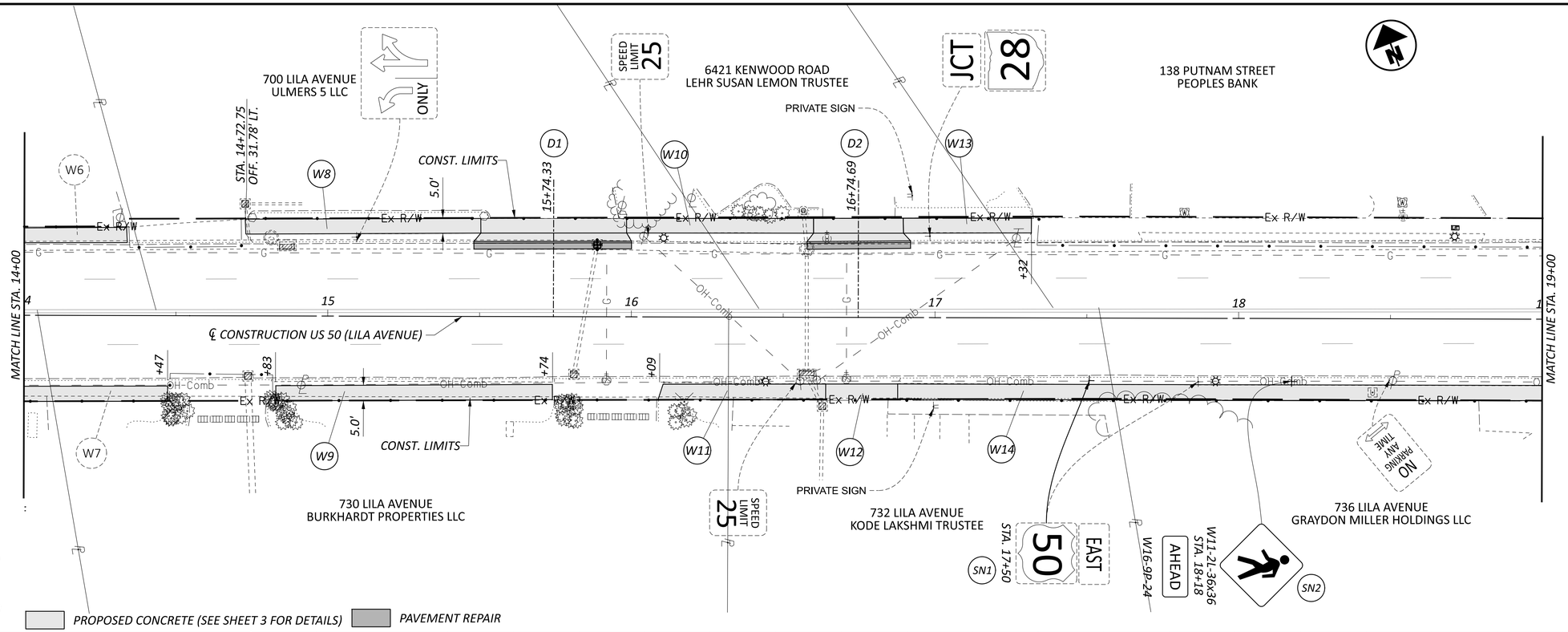

REF NO.	SHEET NO.	STATION TO STATION					202 PAVEMENT REMOVED SY	202 WALK REMOVED, AS PER PLAN SF	202 CURB REMOVED, AS PER PLAN FT		253 PAVEMENT REPAIR, AS PER PLAN SY	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 SY	608 5" CONCRETE WALK, AS PER PLAN SF	608 7" CONCRETE WALK SF	608 CURB RAMP SF	609 CURB, TYPE 6 FT
				TO												
W8	10	14+72.96	LT		15+50.35	LT		377					377			
W9	10	14+82.88	RT		15+74.09	RT		516					516			
W10	10	15+98.36	LT		16+59.92	LT		296					296			
W11	10	16+09.09	RT		16+64.06	RT		303					303			
W12	10	16+64.06	RT		16+87.76	RT	13							119		
W13	10	16+89.56	LT		17+31.68	LT		210					210			
W14	10-11	16+87.76	RT		19+08.03	RT		1126					1126			
D1	11	15+48.08	LT		15+99.98	LT	53		52		12	15		230		52
D2	11	16+57.81	LT		16+91.90	LT	33		34		8	10		145		34
TOTALS CARRIED TO GENERAL SUMMARY							99	2828	86		20	25	2828	494		86

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) PLAN
STA. 14+00 TO STA. 19+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER
KJC

REVIEWER
TSC 01/31/25

PROJECT ID
117210

SHEET 10 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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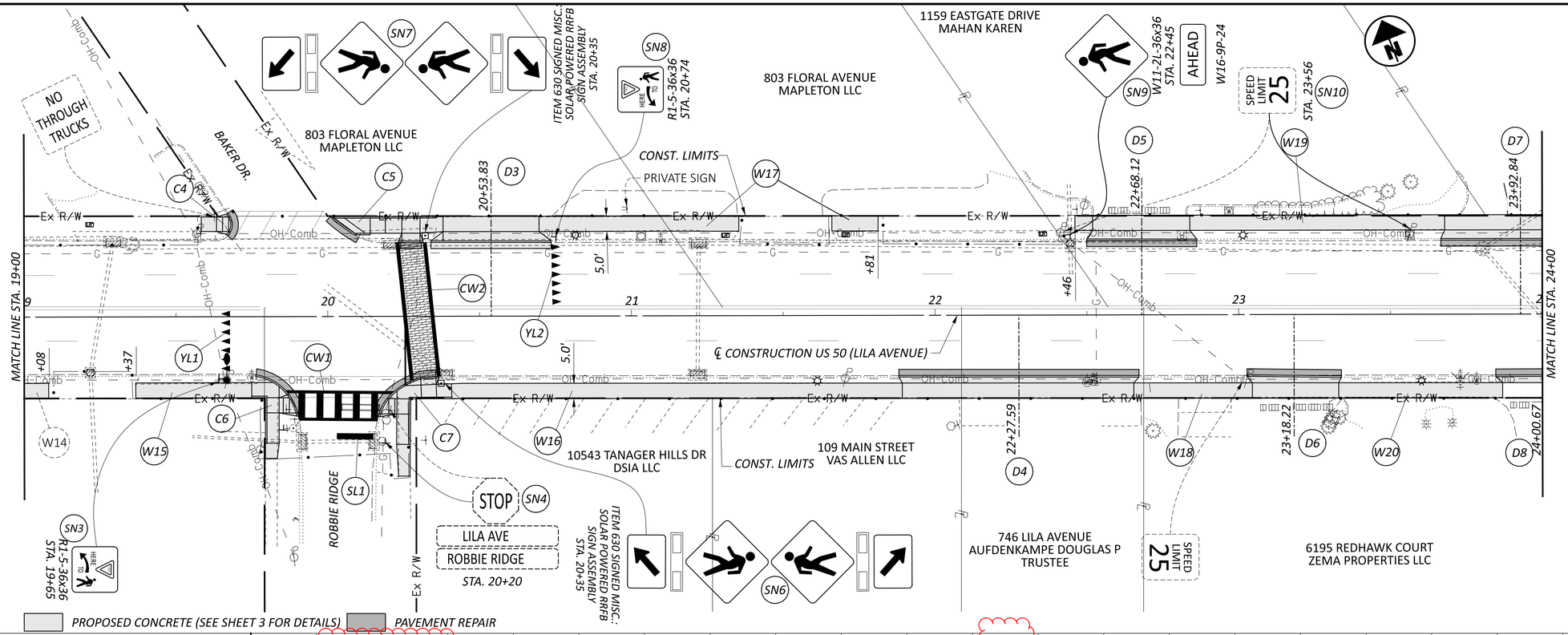

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) PLAN STA. 19+00 TO STA. 24+00

REF NO.	SHEET NO.	STATION TO STATION					202 PAVEMENT REMOVED SY	202 WALK REMOVED, AS PER PLAN SF	202 CURB REMOVED, AS PER PLAN FT	253 PAVEMENT REPAIR, AS PER PLAN SY	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 SY	608 5" CONCRETE WALK, AS PER PLAN SF	608 7" CONCRETE WALK SF	608 CURB RAMP SF	609 CURB, TYPE 6 FT	638 VALVE BOX ADJUSTED TO GRADE EACH	644 REMOVAL OF PAVEMENT MARKING FT	644 STOP LINE FT	644 CROSSWALK LINE FT	644 YIELD LINE FT	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN SY
C4	11	19+58.40	LT	19+70.63	LT		2	54	8	2				54							
C5	11	19+99.56	LT	20+35.76	LT		4	158	19	4				209							
C6	11	19+74.91	RT	19+90.25	RT		5	158	22	5		21		162							
C7	11	20+16.40	RT	20+40.82	RT		6	216	28	6		43		204							
W15	11	19+36.72	RT	19+74.91	RT			200				200									
W16	11	20+40.63	RT	21+89.17	RT			742				742									
W17	11	20+71.98	LT	21+81.31	LT			405				405									
W18	11	22+65.42	RT	23+04.46	RT			195				195									
W19	11	22+83.97	LT	23+67.88	LT			420				420									
W20	11	23+32.91	RT	23+86.89	RT			270				270				1					
D3	11	20+34.02	LT	20+73.68	LT		40		40	9	13		158		40						
D4	11	21+88.06	RT	22+67.14	RT		77		79	18	17		381		79	2					
D5	11	22+46.14	LT	22+83.97	LT		40		36	8	11		189		36						
D6	11	23+04.46	RT	23+32.90	RT		29		31	6	5		142		31						
D7	11-12	23+67.88	LT	24+16.19	LT		54		52	12	16		242		52						
D8	11-12	23+86.88	RT	24+14.44			14		30	7	7				30						
SL1	11	20+03.00	RT	20+15.00	RT												12	12			
CW1	11	19+86.00	RT	20+22.00	RT												56		56		
CW2	11	20+22.00	C	20+37.00	C												10				40
YL1	11	19+67.00	RT																	20	
YL2	11	20+75.00	LT																	20	
TOTALS CARRIED TO GENERAL SUMMARY							271	2818	345	77	69	2296	1112	629	268	3	78	12	56	40	40

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 11 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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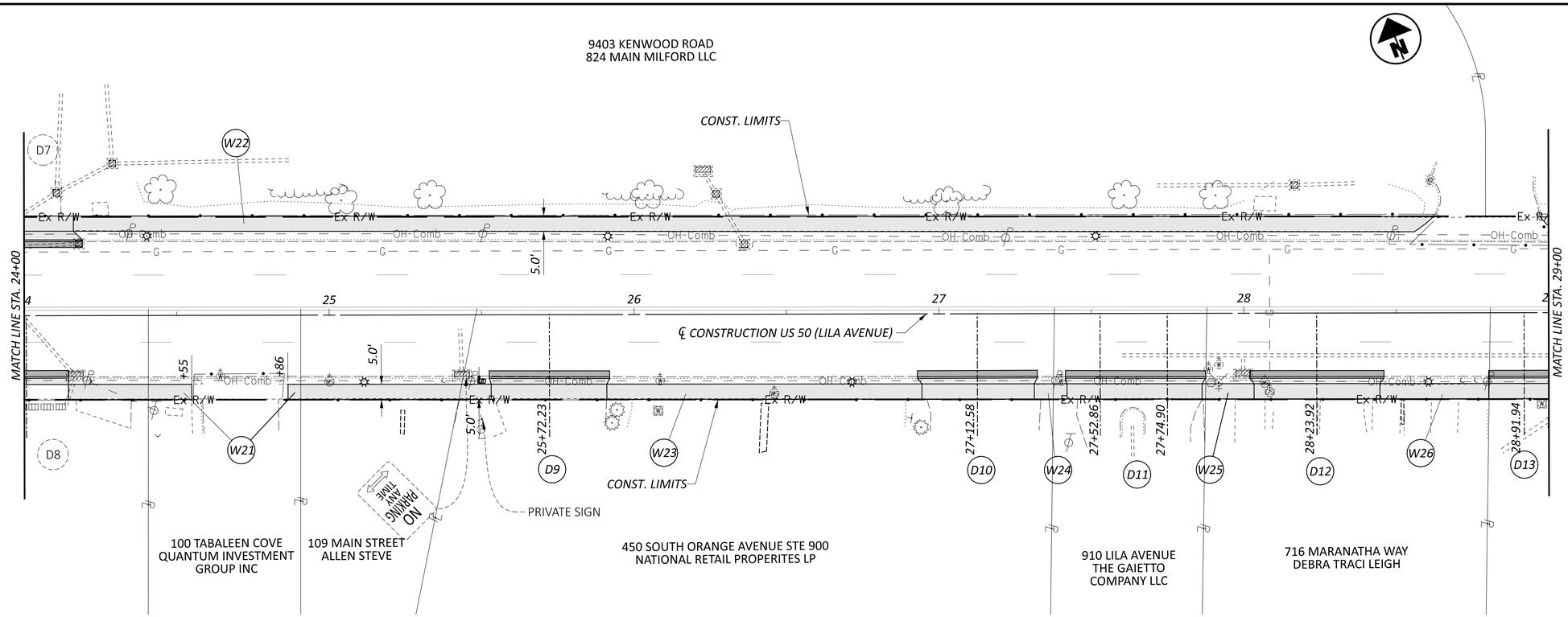

EXISTING SIGN

EXISTING SIGN TO BE REMOVED

PROPOSED SIGN

PROPOSED CONCRETE (SEE SHEET 3 FOR DETAILS)

PAVEMENT REPAIR

REF NO.	SHEET NO.	STATION TO STATION					202 PAVEMENT REMOVED	202 WALK REMOVED, AS PER PLAN	202 CURB REMOVED, AS PER PLAN	253 PAVEMENT REPAIR, AS PER PLAN	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	608 5" CONCRETE WALK, AS PER PLAN	608 7" CONCRETE WALK	608 CURB RAMP	609 CURB, TYPE 6	638 VALVE BOX ADJUSTED TO GRADE
				TO			SY	SF	FT	SY	SY	SF	SF	SF	FT	EACH
W21	12	24+14.44	RT		25+53.12	RT		536				536				1
W22	12	24+16.19	LT		28+62.30	LT		2240				2240				
W23	12	25+91.04	RT		26+94.39	RT		517				517				2
W24	12	27+31.24	RT		27+42.00	RT		54				54				1
W25	12	27+86.27	RT		28+03.33	RT		85				85				
W26	12	28+44.60	RT		28+80.31	RT		179				179				
D9	12	25+53.12	RT		25+91.04	RT	38		39	9	8		190		39	
D10	12	26+94.39	RT		27+31.24	RT	37		39	9	8		184		39	
D11	12	27+41.99	RT		27+86.26	RT	44		46	10	9		221		46	
D12	12	28+.03.33	RT		28+44.60	RT	41		44	10	9		206		44	1
D13	12-13	28+80.31	RT		29+03.58	RT	23		25	6	5		116		25	
TOTALS CARRIED TO GENERAL SUMMARY							183	3611	193	44	39	3611	917		193	5

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) PLAN
STA. 24+00 TO STA. 29+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 12 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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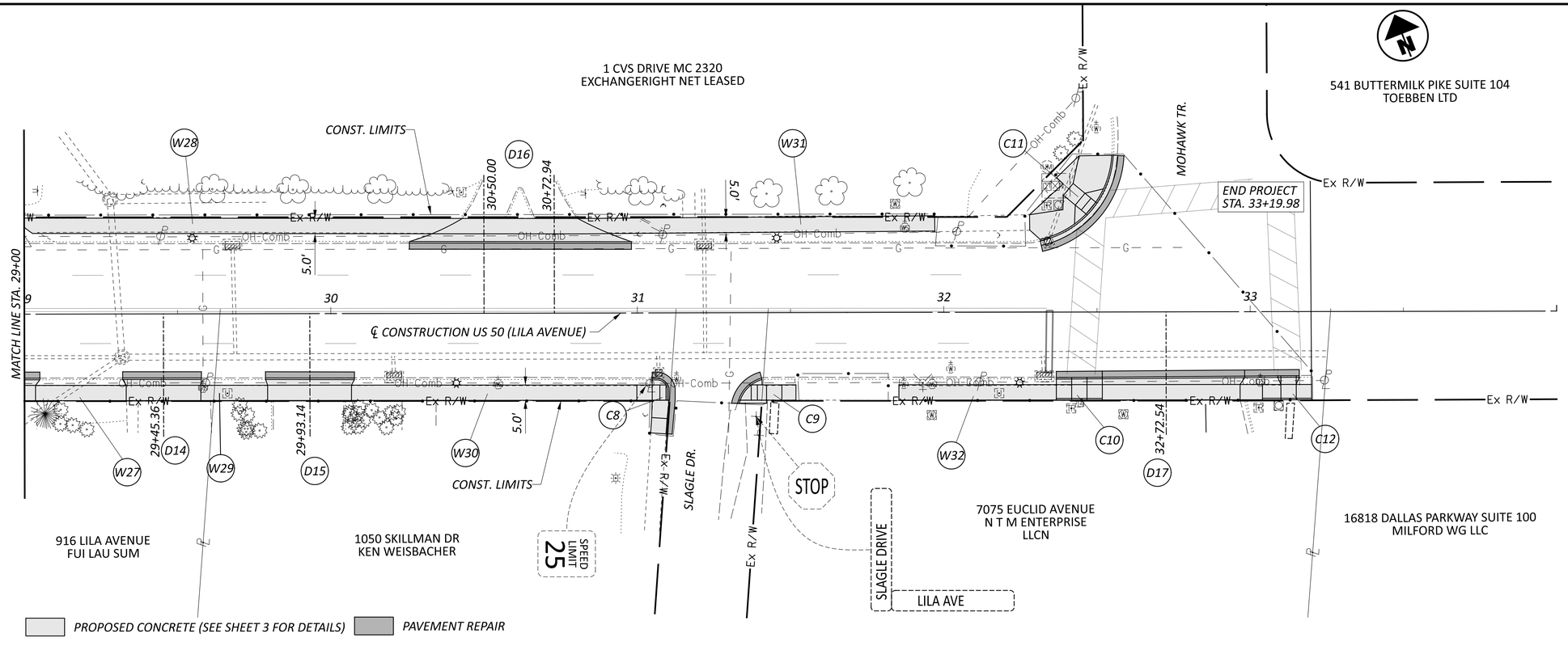

REF NO.	SHEET NO.	STATION TO STATION					PAVEMENT REMOVED	WALK REMOVED, AS PER PLAN	CURB REMOVED, AS PER PLAN		PAVEMENT REPAIR, AS PER PLAN	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	5" CONCRETE WALK, AS PER PLAN	7" CONCRETE WALK	CURB RAMP	CURB, TYPE 6		VALVE BOX ADJUSTED TO GRADE
				TO			202	202	202		253	452	608	608	608	609		638
							SY	SF	FT		SY	SY	SF	SF	SF	FT		EACH
C8	13	30+99.81	RT		31+12.31	RT	5	118	10		5		25		92			
C9	13	31+30.71	RT		31+51.70	RT	3	102	12		3		23		79			
C10	13	32+36.70	RT		32+51.70	RT	3	105	15		3				111			
C11	13	32+28.07	LT		32+58.92	LT	9	472	40		9				472			
C12	13	33+03.97	RT		33+19.97	RT	4	135	18		4		37		98	11		
W27	13	29+03.58	RT		29+33.18	RT		148					148					
W28	13	28+97.38	LT		30+42.94	LT		693					693					
W29	13	29+56.76	RT		29+79.33	RT		109					109					
W30	13	30+06.68	RT		30+99.81	RT		474					474					1
W31	13	30+80.68	LT		31+97.15	LT		558					558					1
W32	13	31+85.33	RT		32+36.70	RT		257					257					2
D14	13	29+33.17	RT		29+57.55	RT	25		26		6	6		122		26		
D15	13	29+79.33	RT		30+06.68	RT	28		29		7	6		137		29		
D16	13	30+25.67	LT		30+98.14	LT	61		73		17	19		237		73		
D17	13	32+51.70	RT		32+98.16	RT	46		47		11	11		225		47		
TOTALS CARRIED TO GENERAL SUMMARY							184	3171	270		65	42	2324	721	852	186		4

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) PLAN
STA. 29+00 TO STA. 33+19.98

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 13 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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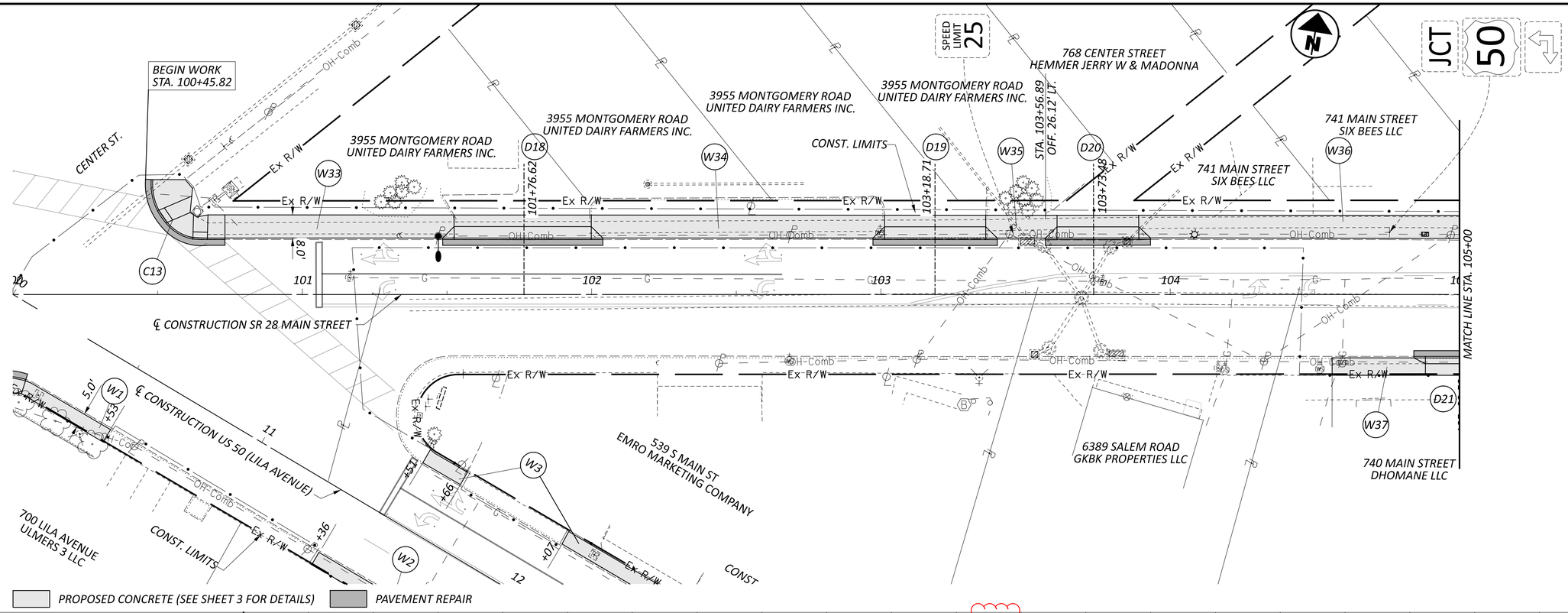

HORIZONTAL SCALE IN FEET
0 10 20 40

REF NO.	SHEET NO.	STATION TO STATION					PAVEMENT REMOVED	WALK REMOVED, AS PER PLAN	CURB REMOVED, AS PER PLAN		PAVEMENT REPAIR, AS PER PLAN	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	5" CONCRETE WALK, AS PER PLAN	7" CONCRETE WALK	CURB RAMP	CURB, TYPE 6		VALVE BOX ADJUSTED TO GRADE
				TO			202	202	202		253	452	608	608	608	609		638
							SY	SF	FT		SY	SY	SF	SF	SF	FT		EACH
C13	14	100+45.82	LT		100+73.24	LT	9	280	38		9				311			
W33	14	100+73.24	LT		101+53.29	LT		315					625					
W34	14	101+99.89	LT		103+00.69	LT		383					788					
W35	14	103+36.72	LT		103+56.89	LT		56					179					
W36	14-15	103+90.06	LT		105+04.09	LT		470					889					
W37	14	104+55.98	RT		104+88.22	RT		190					190					1
D18	14	101+53.29	LT		101+99.88	LT	56		55		12	23		190		55		
D19	14	103+00.69	LT		103+36.72	LT	42		43		10	17		140		43		1
D20	14	103+56.89	LT		103+90.07	LT	34		36		8	14		113		36		
D21	14-15	104+88.22	RT		105+18.82	RT	30		39		9	8		122		39		
TOTALS CARRIED TO GENERAL SUMMARY							171	1694	211		48	62	2671	565	311	173		2

SR 28 (MAIN STREET) PLAN
STA. 100+45.82 TO STA. 105+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 14 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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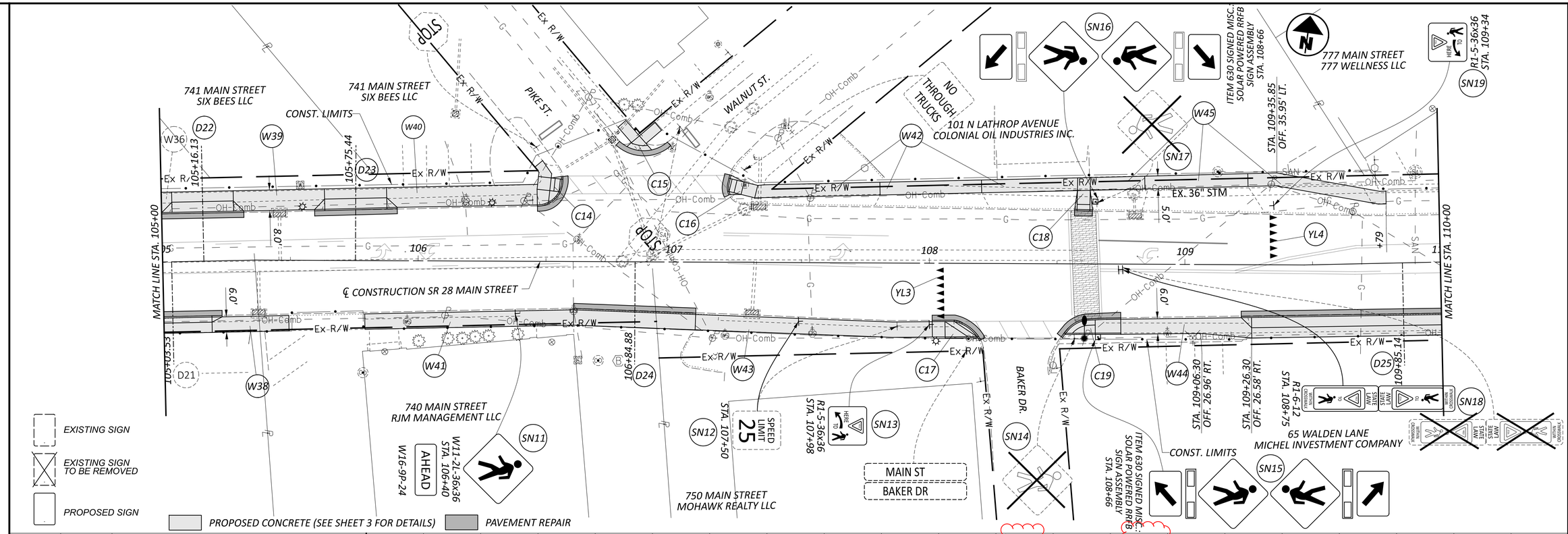

HORIZONTAL SCALE IN FEET
0 10 20 40

SR 28 (MAIN STREET) PLAN
STA. 105+00 TO STA. 110+00

REF NO.	SHEET NO.	STATION TO STATION					PAVEMENT REMOVED (202) SY	WALK REMOVED, AS PER PLAN (202) SF	CURB REMOVED, AS PER PLAN (202) FT	PAVEMENT REPAIR, AS PER PLAN (253) SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 (452) SY	5" CONCRETE WALK, AS PER PLAN (608) SF	7" CONCRETE WALK (608) SF	CURB RAMP (608) SF	CURB, TYPE 6 (609) FT	VALVE BOX ADJUSTED TO GRADE (638) EACH	YIELD LINE (644) FT
C14	15	106+47.60	LT		106+55.68	LT	5	111	17	5				117			
C15	15	106+79.60	LT		106+93.59	LT	5	93		5				93			
C16	15	107+19.82	LT		107+30.26	LT	3	92	8	3				65		1	
C17	15	108+01.35	RT		108+21.97	RT	5	95	21	5				102			
C18	15	108+57.90	LT		108+62.90	LT	2	75	7	2				75			
C19	15	108+50.22	RT		108+75.06	RT	6	112	26	6				121			
W38	15	105+18.82	RT		105+49.61	RT		177				177					
W39	15	105+28.16	LT		105+63.15	LT		145				270					
W40	15	105+87.47	LT		106+46.60	LT		248				460					
W41	15	105+77.11	RT		106+60.88	RT		490				490				1	
W42	15	107+32.73	LT		108+57.90	LT		428				430	199				
W43	15	107+08+49	RT		108+01.35	RT		557				557					
W44	15	108+75.06	RT		109+26.30	RT	22	189				317				1	
W45	15	108+62.88	LT		109+79.27	LT	23	396				381	202				
D22	15	105+03.18	LT		105+29.07	LT	30		32	7	12		96		32		
D23	15	105+62.33	LT		105+88.56	LT	30		32	7	12		97		32		
D24	15	106+60.88	RT		107+08.49	RT	43		48	11			287		48		
D25	15-16	109+26.30	RT		110+44.40	RT	129		120	27	52		447		120		
YL3	15	118+04.00	RT														20
YL4	15	119+35.00	LT														20
TOTALS CARRIED TO GENERAL SUMMARY							303	3208	311	78	76	3082	1328	573	232	3	40

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 15 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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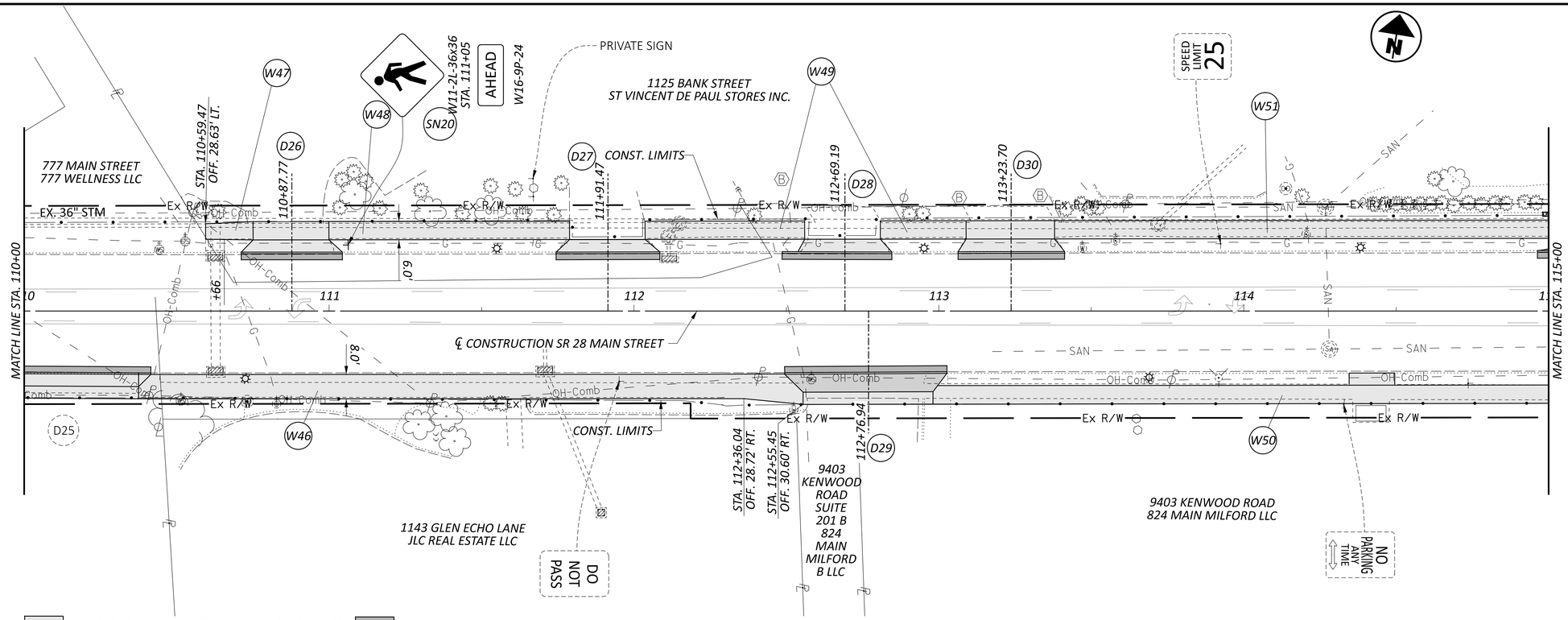

EXISTING SIGN

EXISTING SIGN TO BE REMOVED

PROPOSED SIGN

PROPOSED CONCRETE (SEE SHEET 3 FOR DETAILS)

PAVEMENT REPAIR

REF NO.	SHEET NO.	STATION TO STATION					202 PAVEMENT REMOVED SY	202 WALK REMOVED, AS PER PLAN SF	202 CURB REMOVED, AS PER PLAN FT		253 PAVEMENT REPAIR, AS PER PLAN SY	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 SY	608 5" CONCRETE WALK, AS PER PLAN SF	608 7" CONCRETE WALK SF	608 CURB RAMP SF	609 CURB, TYPE 6 FT		638 VALVE BOX ADJUSTED TO GRADE EACH
			TO															
W46		110+44.40	RT		112+55.46	RT		1066					1744					
W47		110+65.62	LT		110+75.09	LT		72					86					
W48		110+99.04	LT		111+78.30	LT		395					474					
W49		112+03.63	LT		113+08.92	LT		403					483					
W50		112+98.07	RT		115+36.26	RT		1238					1486					
W51		113+37.94	LT		115+15.44	LT		878					1054					
D26		110+71.18	LT		111+04.36	LT	37		33		8	13		149		33		
D27		111+74.46	LT		112+08.48	LT	21		34		8	15				34		
D28		112+53.78	LT		112+84.59	LT	21		36		8	13				36		
D29		112+52.75	RT		113+01.14	RT	63		53		12	32		170		53		1
D30		113+06.31	LT		113+41.24	LT	42		35		8	15		174		35		
TOTALS CARRIED TO GENERAL SUMMARY							184	4052	191		44	88	5327	493		191	1	2

CLE US 50/SR 28 0.83/0.00

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SR 28 (MAIN STREET) PLAN
STA. 110+00 TO STA. 115+00

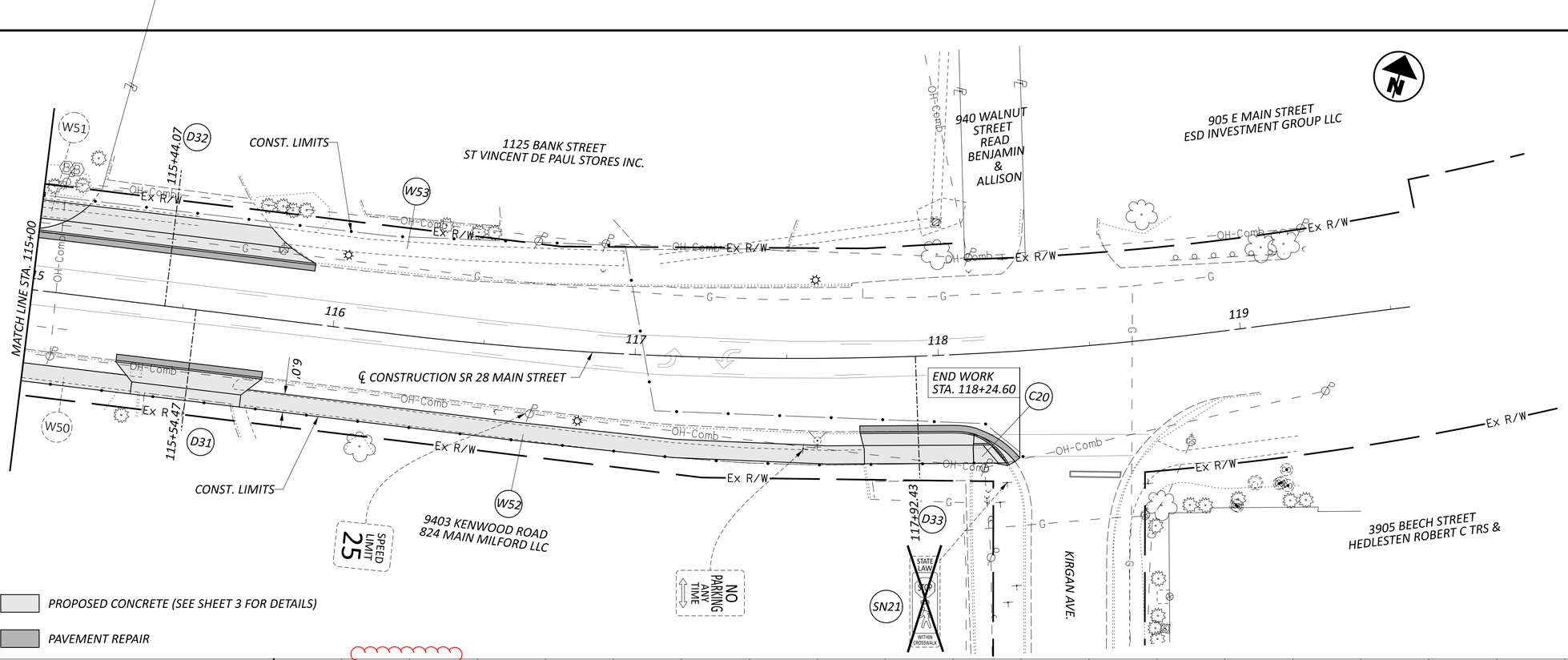
DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC

REVIEWER TSC 01/31/25

PROJECT ID 117210

SHEET 16 TOTAL 43



HORIZONTAL SCALE IN FEET
0 10 20 40

SR 28 (MAIN STREET) PLAN
STA. 115+00 TO STA. 118+24.60

REF NO.	SHEET NO.	STATION TO STATION						PAVEMENT REMOVED	WALK REMOVED, AS PER PLAN	CURB REMOVED, AS PER PLAN		PAVEMENT REPAIR, AS PER PLAN	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	5" CONCRETE WALK, AS PER PLAN	7" CONCRETE WALK	CURB RAMP	CURB, TYPE 6
				TO				202	202	202		253	452	608	608	608	609
								SY	SF	FT		SY	SY	SF	SF	SF	FT
C20		118+11.05	RT		118+24.60	RT		4	85	16		4				85	
W52		115+72.50	RT		117+74.96	RT			1032					1238			
W53		115+76.07	LT		116+94.47	LT			553								
D31		115+32.32	RT		115+76.64	RT		55		49		11	28		141		49
D32		114+96.35	LT		115+91.79	LT		104		96		22	37		412		96
D33		117+73.77	RT		118+10.37	RT		49		38		9	16		216		38
TOTALS CARRIED TO GENERAL SUMMARY								212	1670	199		46	81	1238	769	85	183

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 17 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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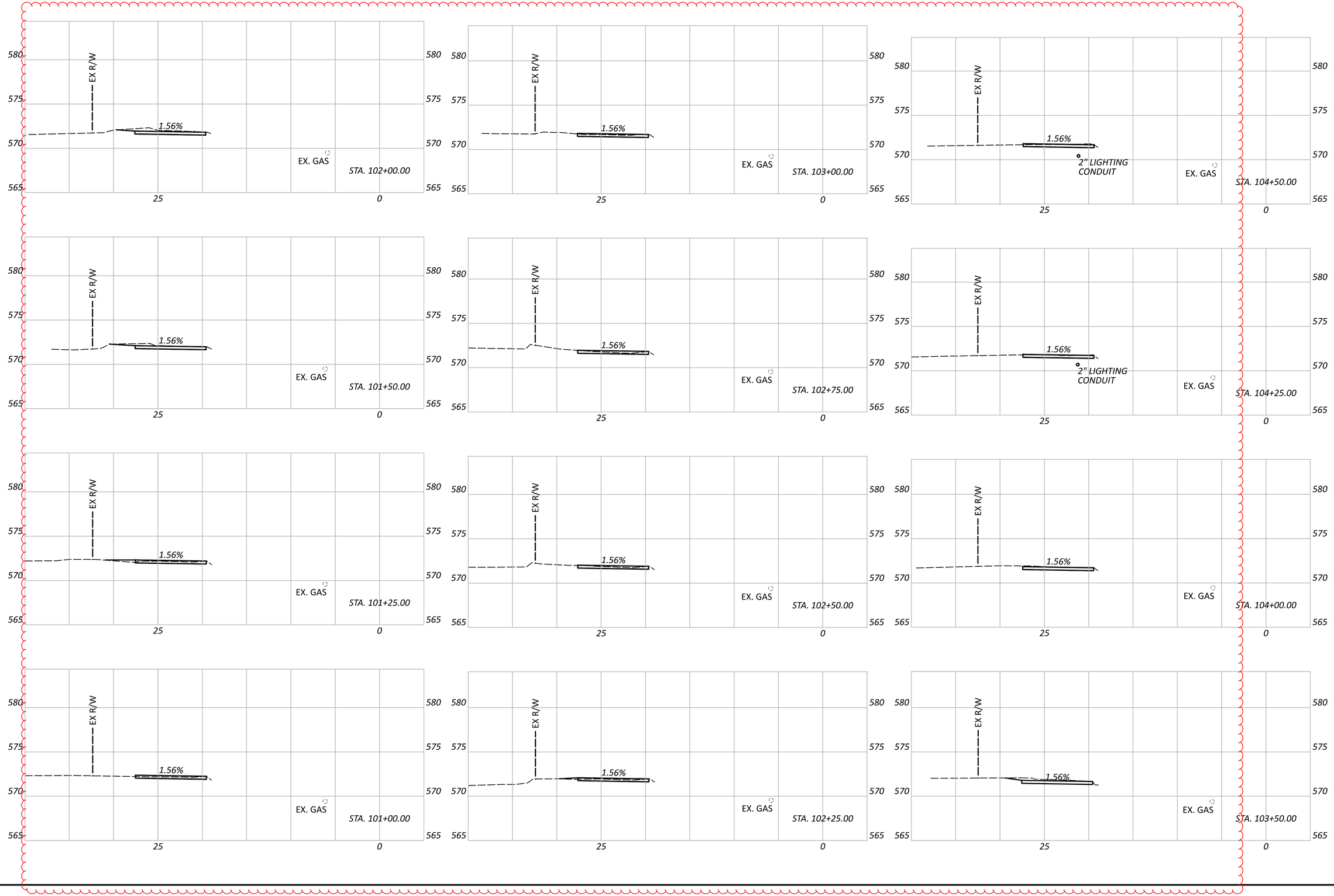

CLE US 50/SR 28 0.83/0.00

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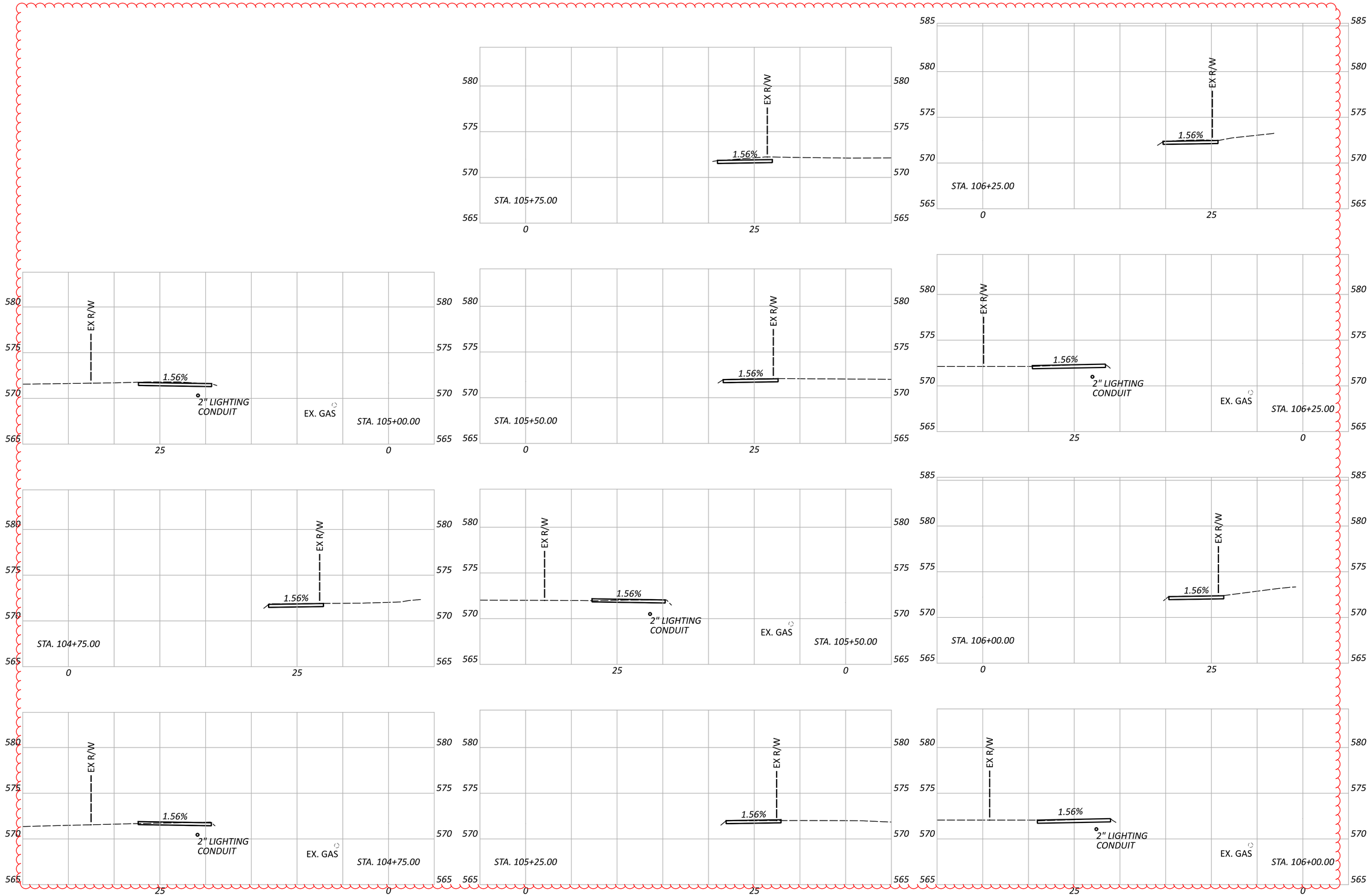
CROSS SECTIONS
STA. 101+00 TO STA. 104+50

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	18
TOTAL	43



CROSS SECTIONS
STA. 104+75 TO STA. 106+25

CLE US 50/SR 28 0.83/0.00

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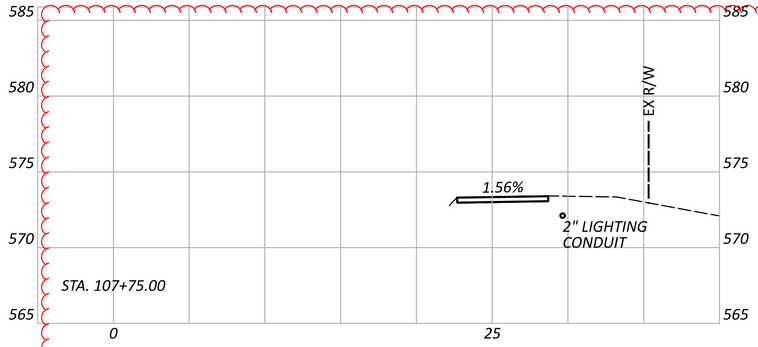
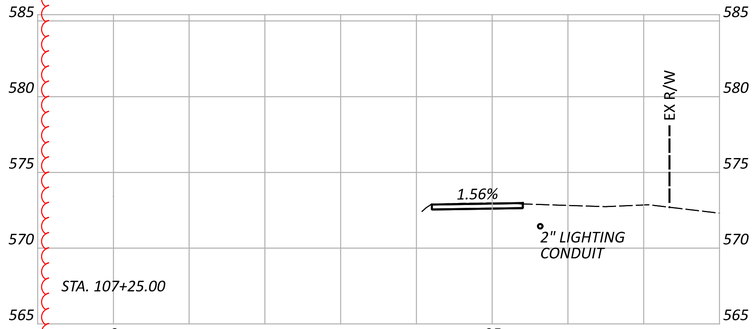
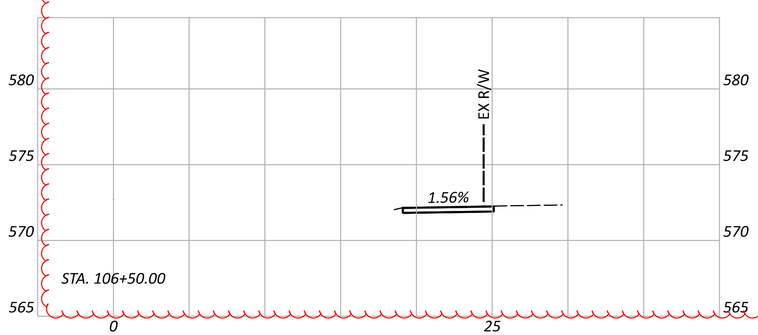
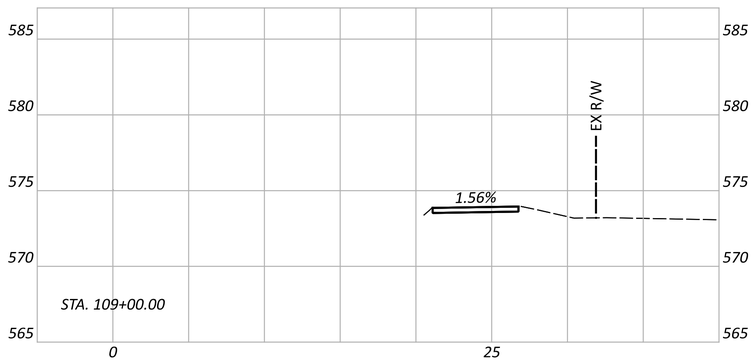
DESIGN AGENCY
THE KLEINGERS GROUP

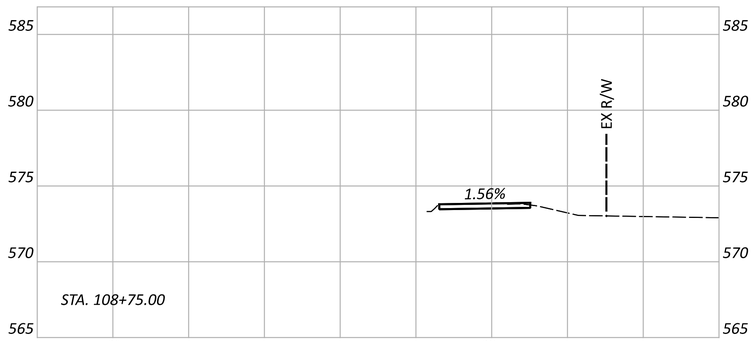
DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	19
TOTAL	43

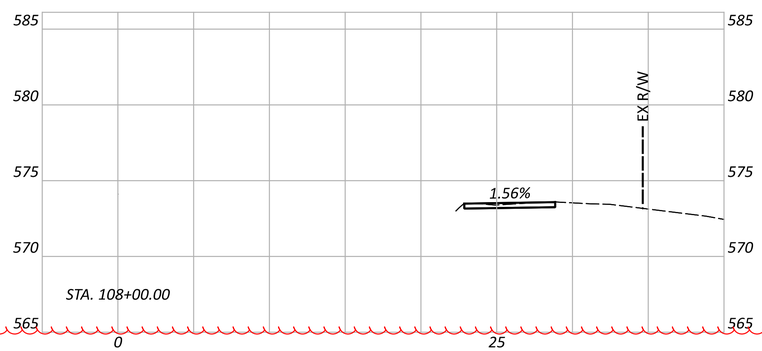


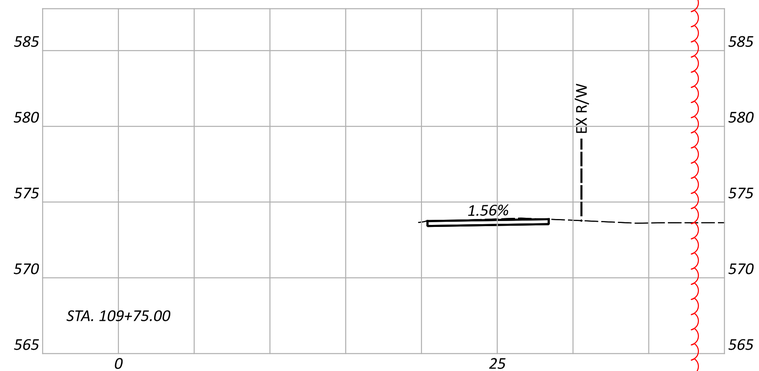


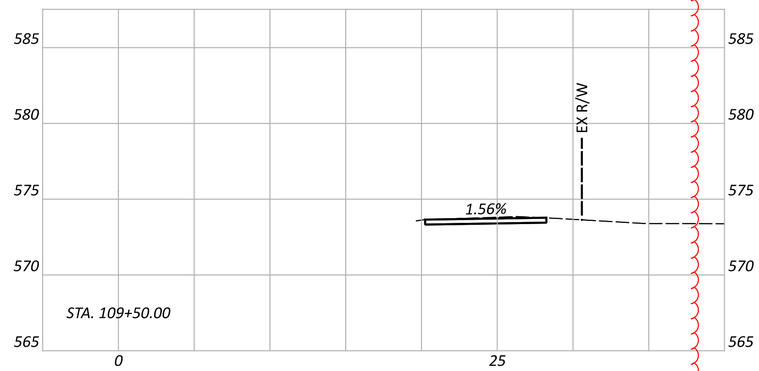


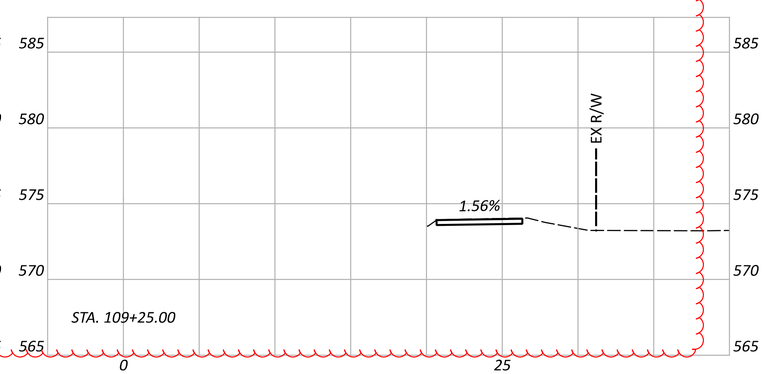












CLE US 50/SR 28 0.83/0.00

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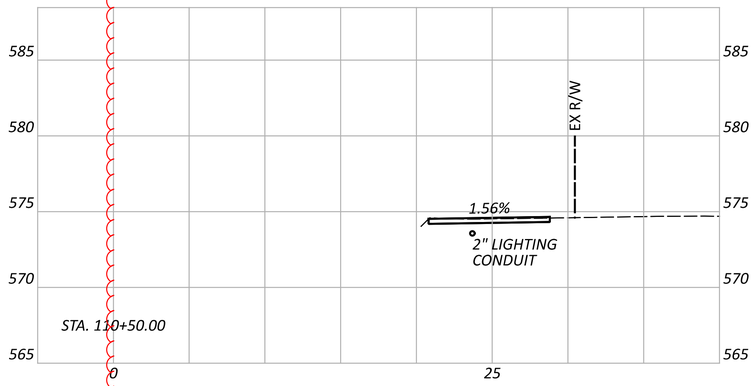
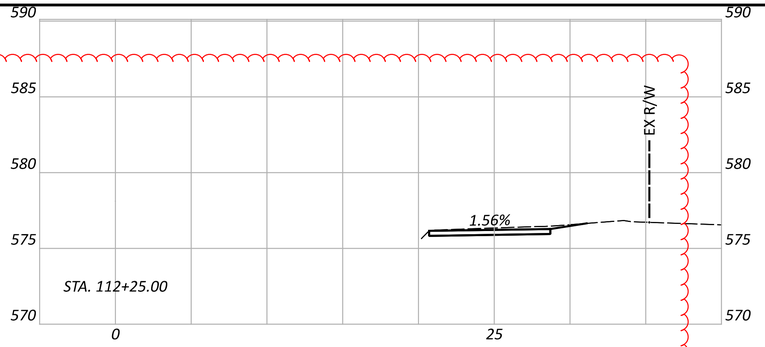
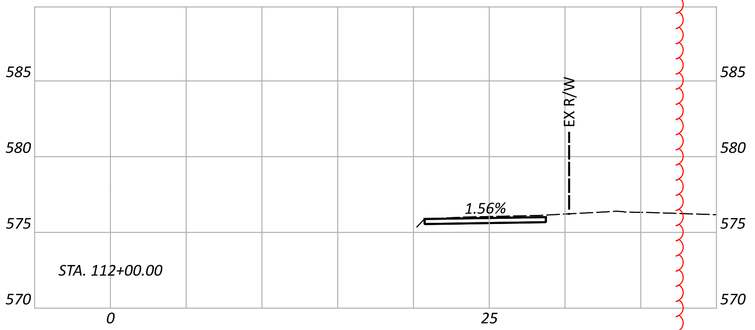
CROSS SECTIONS
STA. 106+50 TO STA. 109+75

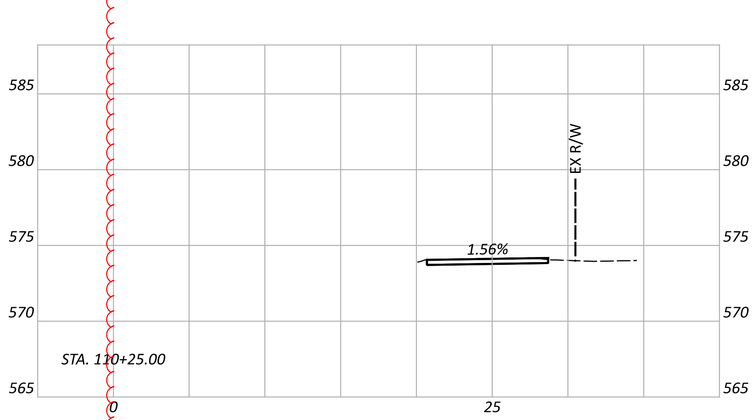
DESIGN AGENCY
THE KLEINGERS GROUP

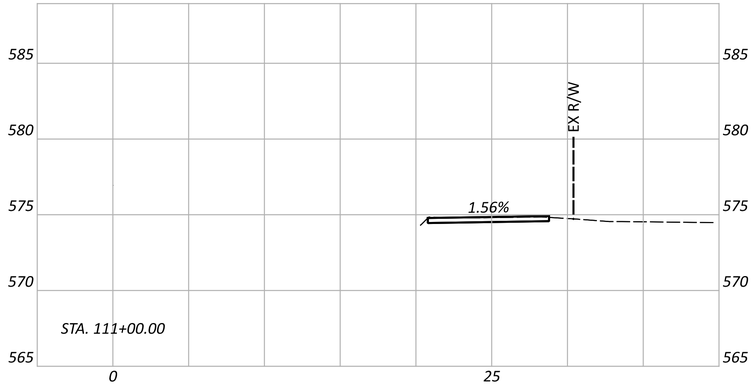
DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	20
TOTAL	43

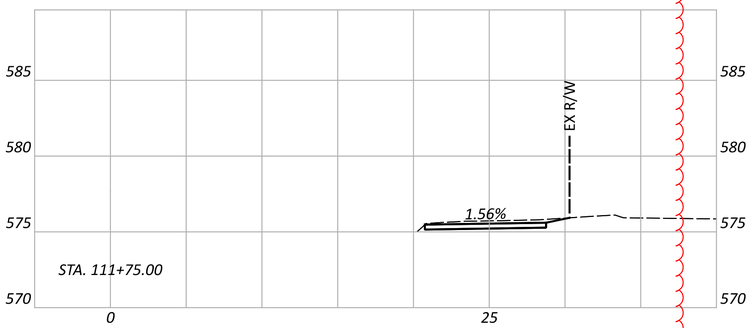


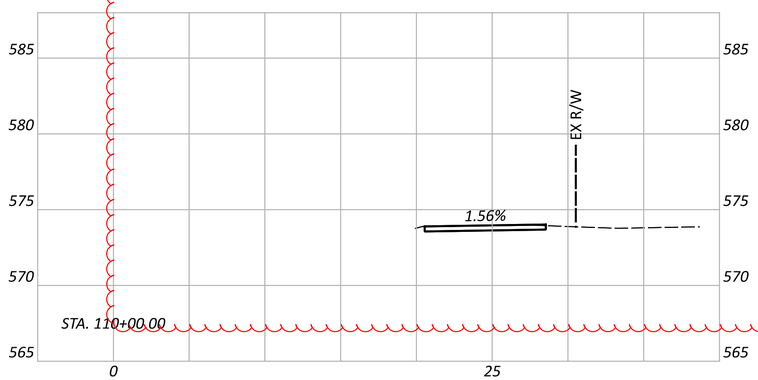


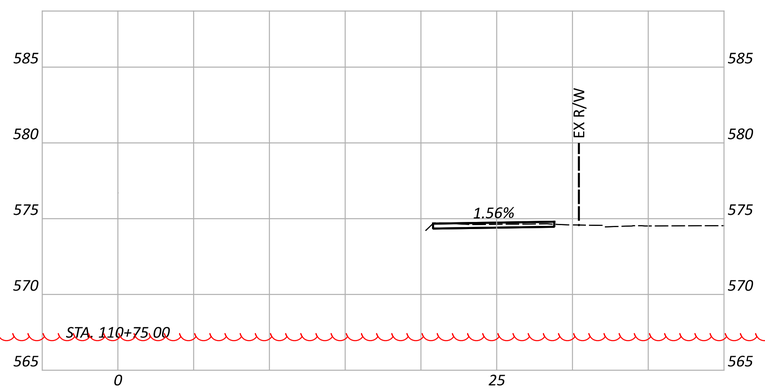


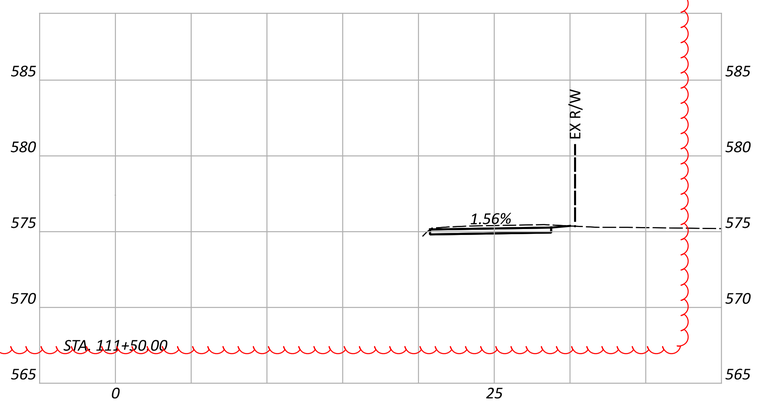












CLE US 50/SR 28 0.83/0.00

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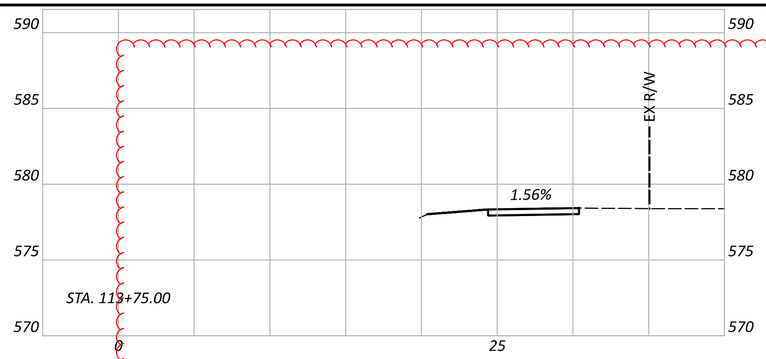
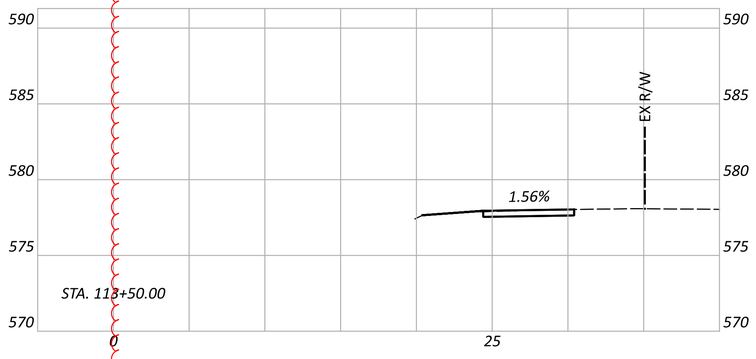
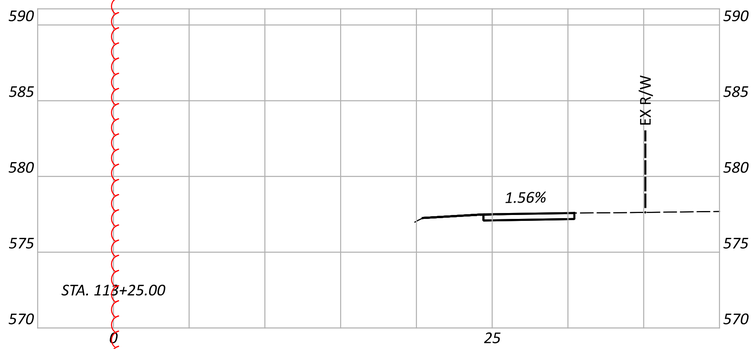
CROSS SECTIONS
STA. 110+00 TO STA. 112+25

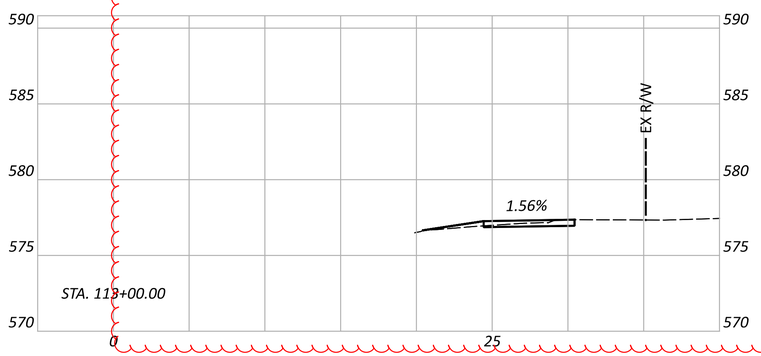
DESIGN AGENCY
THE KLEINGERS GROUP

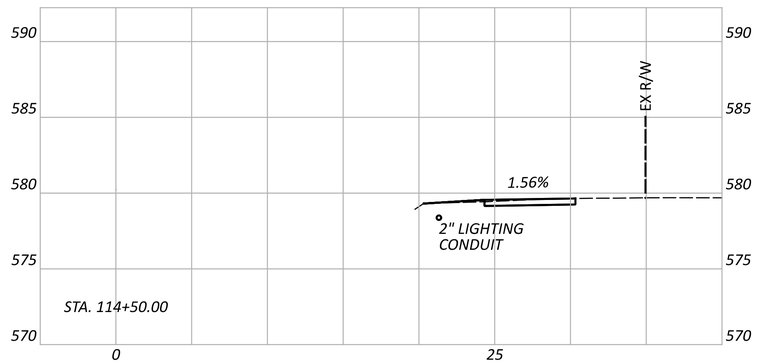
DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	21
TOTAL	43

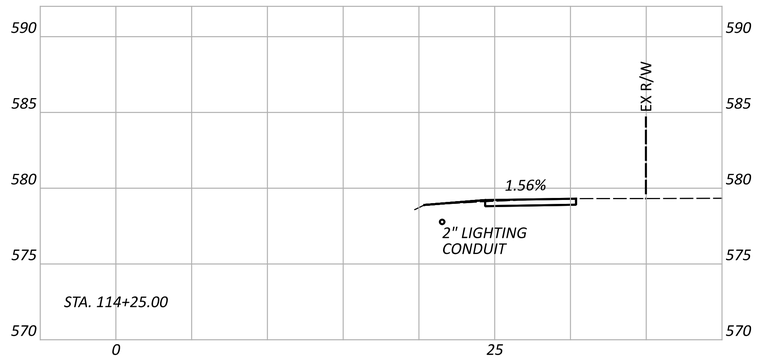


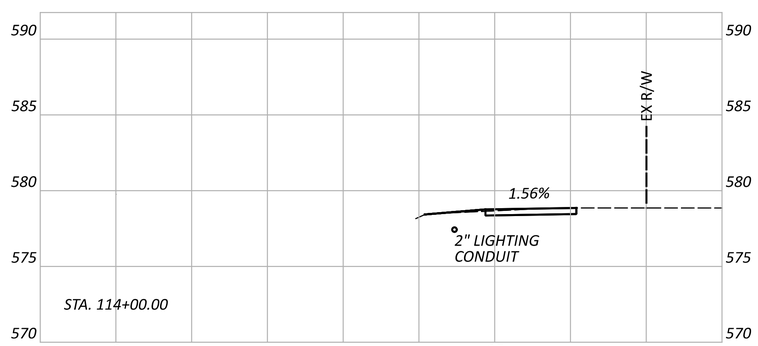


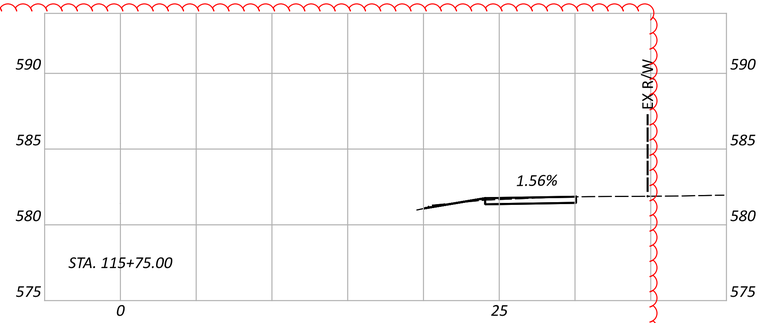


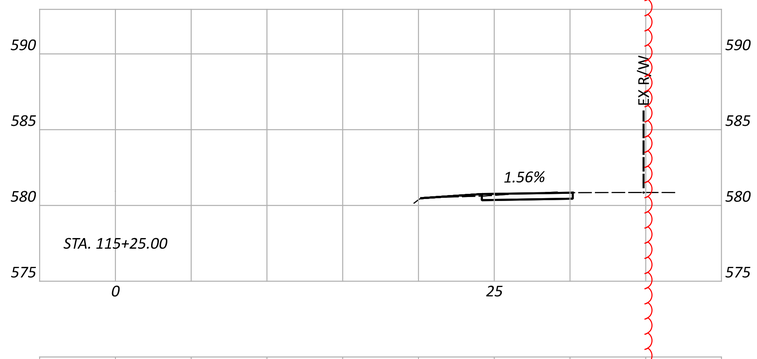


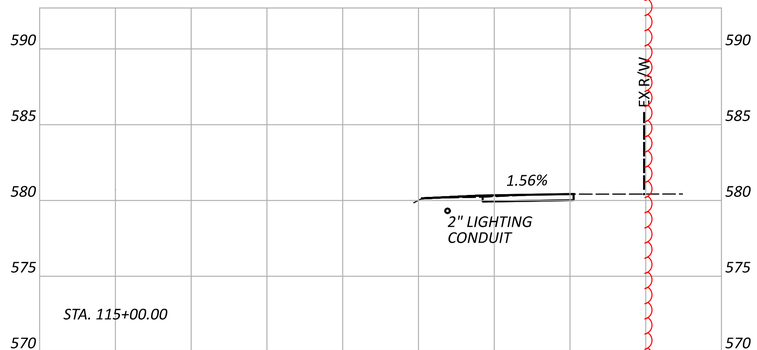


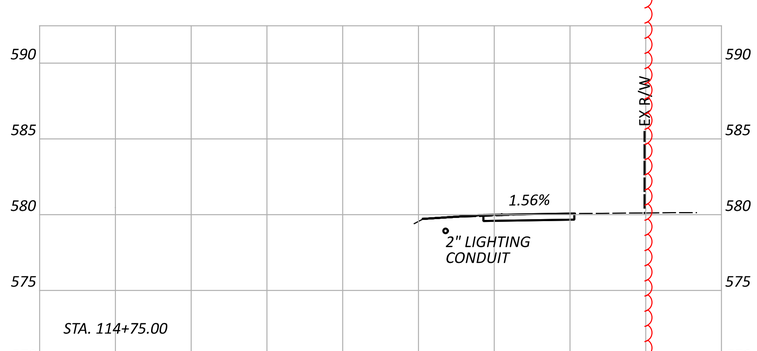












CROSS SECTIONS
STA. 113+00 TO STA. 115+75

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER
KJC

REVIEWER
TSC 01/31/25

PROJECT ID
117210

SHEET 22 | TOTAL 43

CLE US 50/SR 28 0.83/0.00

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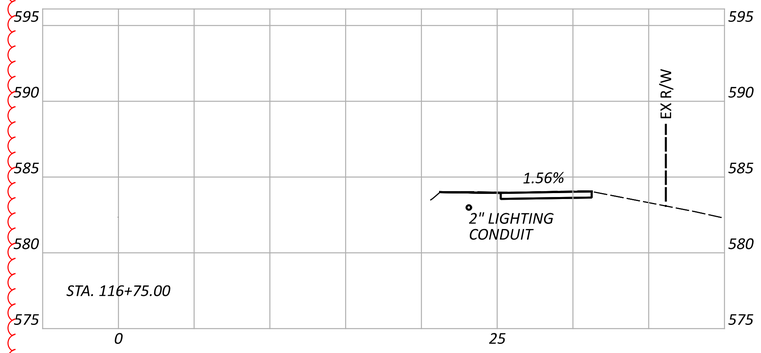

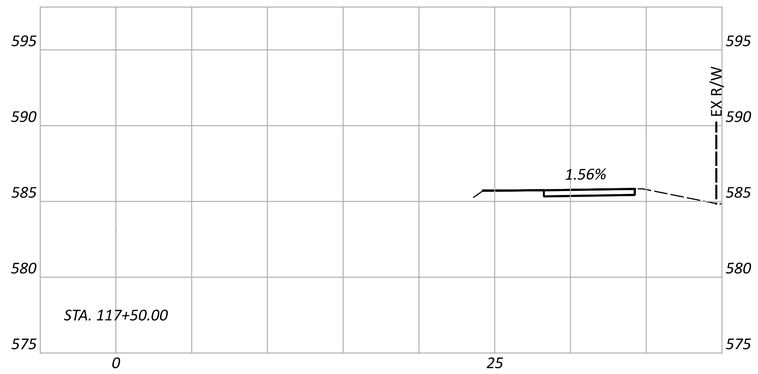

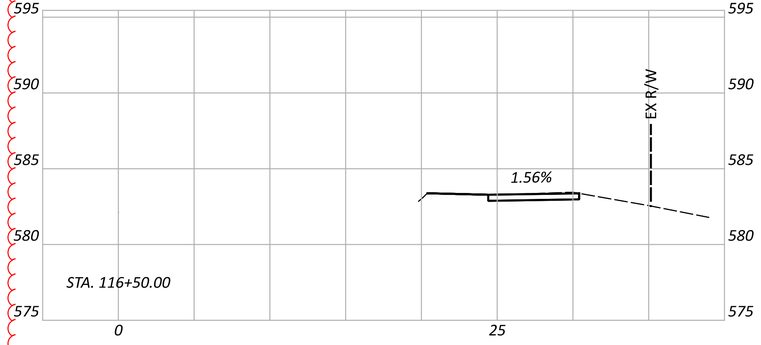

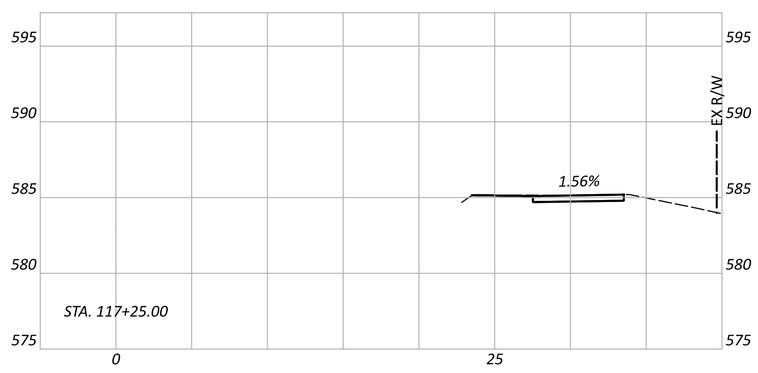

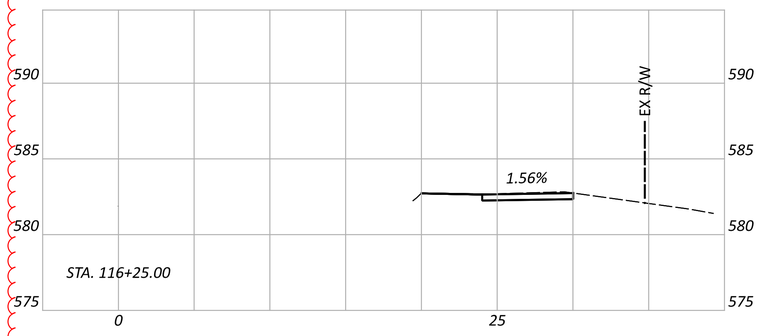

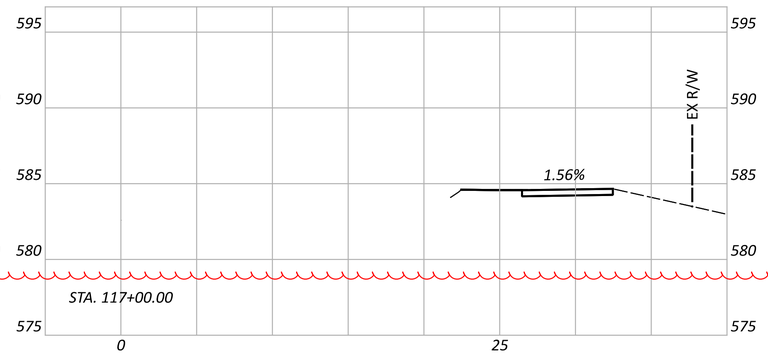

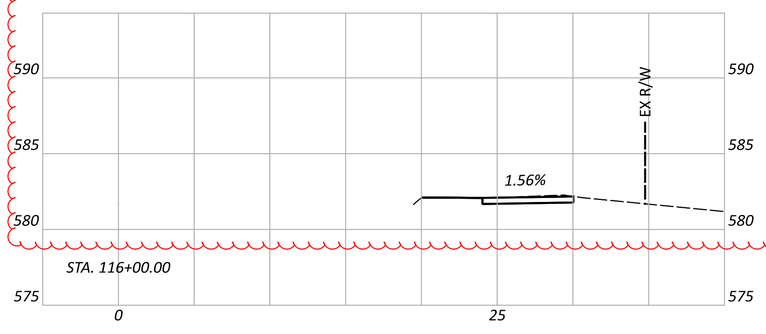

CLE US 50/SR 28 0.83/0.00

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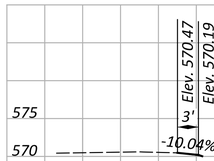
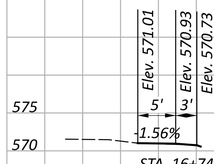
CROSS SECTIONS
STA. 116+00 TO STA. 117+50

DESIGN AGENCY
THE KLEINGERS GROUP

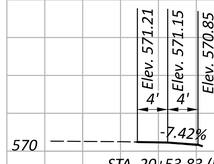
DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	22A
TOTAL	43



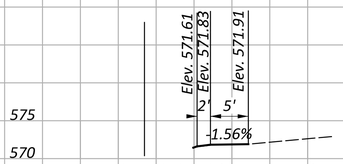
STA. 15+74.33 (LILA AVENUE)



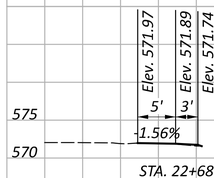
STA. 16+74.69 (LILA AVENUE)



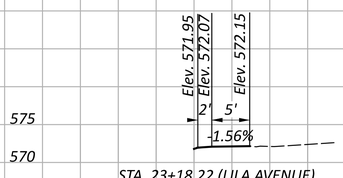
STA. 20+53.83 (LILA AVENUE)



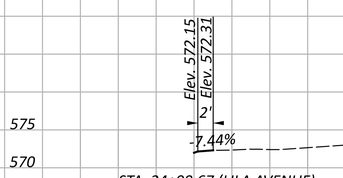
STA. 22+27.59 (LILA AVENUE)



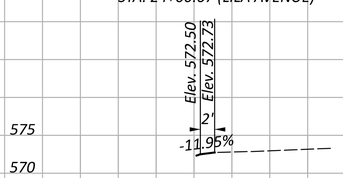
STA. 22+68.12 (LILA AVENUE)



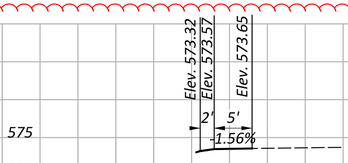
STA. 23+18.22 (LILA AVENUE)



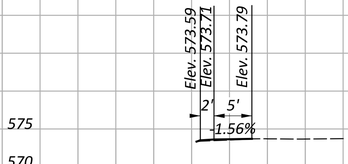
STA. 24+00.67 (LILA AVENUE)



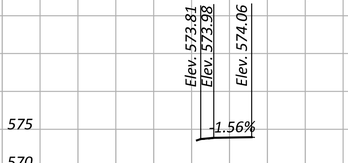
STA. 25+72.23 (LILA AVENUE)



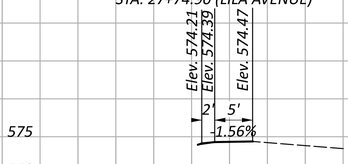
STA. 27+12.58 (LILA AVENUE)



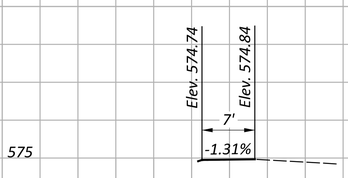
STA. 27+52.86 (LILA AVENUE)



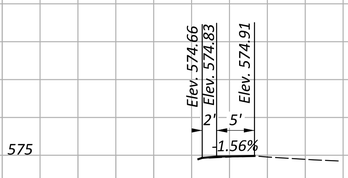
STA. 27+74.90 (LILA AVENUE)



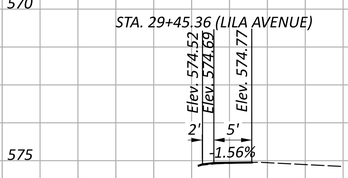
STA. 28+23.92 (LILA AVENUE)



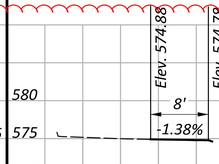
STA. 28+91.94 (LILA AVENUE)



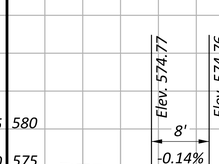
STA. 29+45.36 (LILA AVENUE)



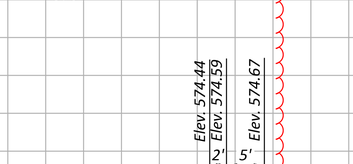
STA. 29+93.14 (LILA AVENUE)



STA. 30+50.00 (LILA AVENUE)



STA. 30+72.94 (LILA AVENUE)



STA. 32+72.54 (LILA AVENUE)

HORIZONTAL SCALE IN FEET
0 5 10 20

MAIN STREET DRIVE DETAILS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	KJC
REVIEWER	TSC 01/31/25
PROJECT ID	117210
SHEET	23
TOTAL	43

CLE US 50/SR 28 0.83/0.00

MODEL: Main St. Profile 1 (Sheet) PAPERSIZE: 34x22 (in) DATE: 3/7/2025, TIME: 3:10:39 PM, USER: kcollins
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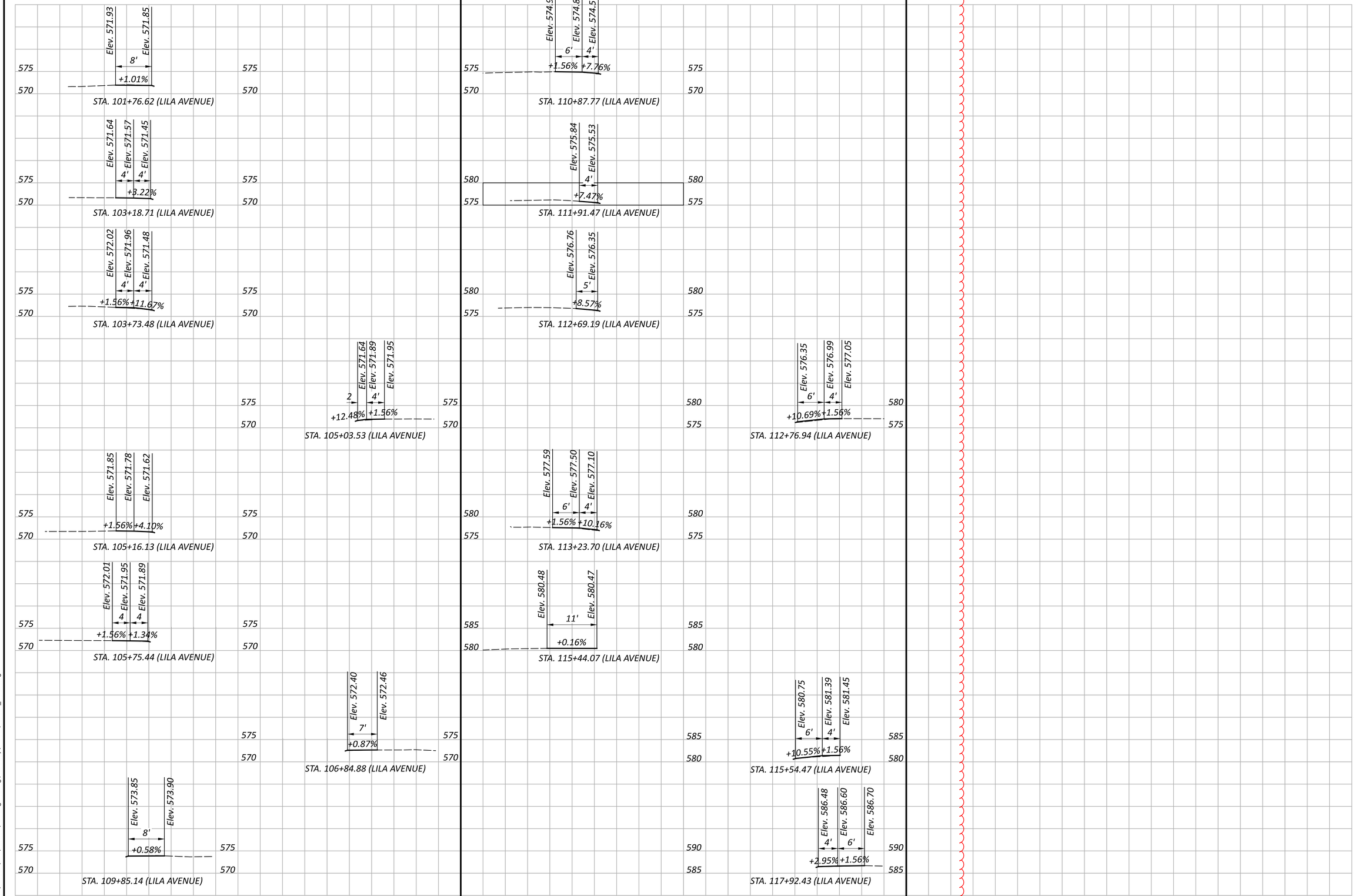
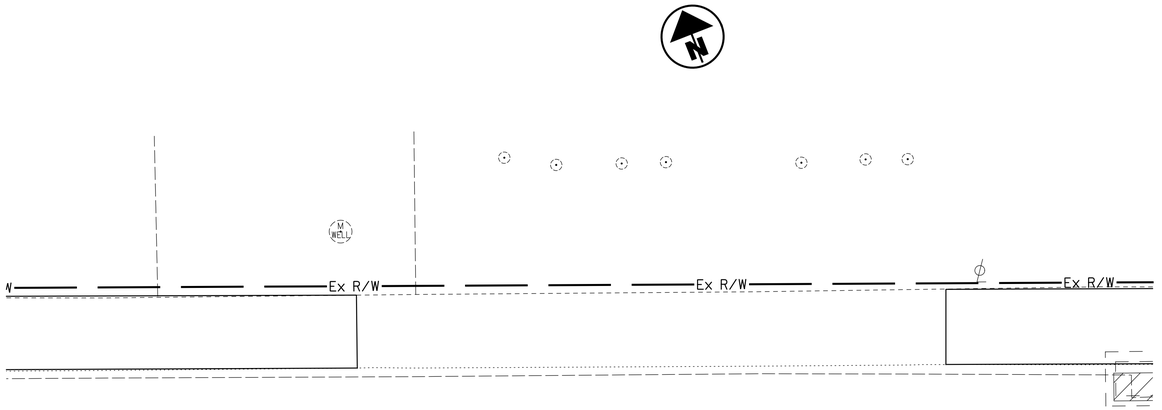
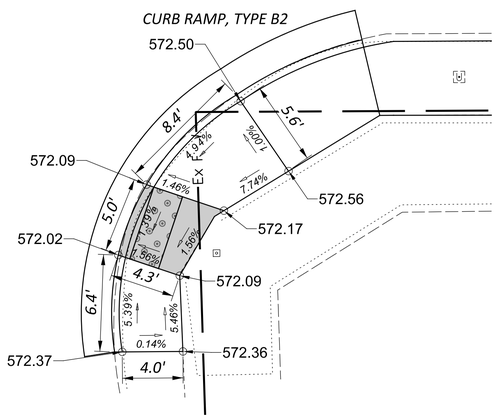
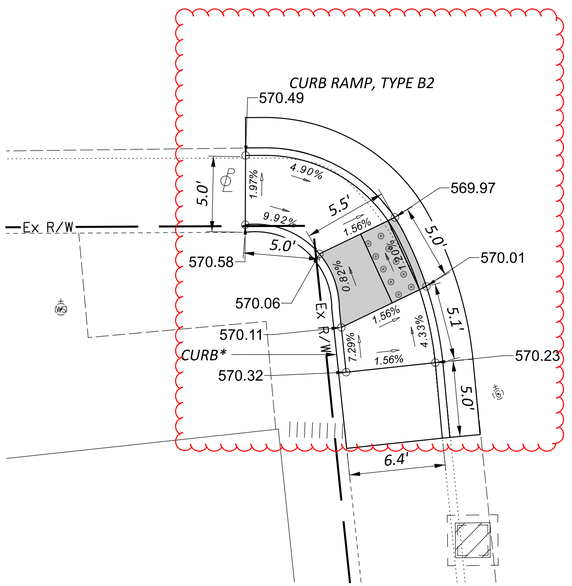
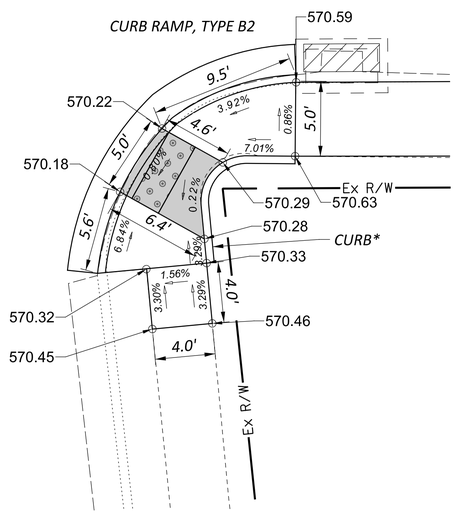

Elev. 571.93
Elev. 571.85
8'
+1.01%
575
570
STA. 101+76.62 (LILA AVENUE)
Elev. 571.64
Elev. 571.57
Elev. 571.45
4'
4'
+3.22%
STA. 103+18.71 (LILA AVENUE)
Elev. 572.02
Elev. 571.96
Elev. 571.48
+1.56%
+11.67%
STA. 103+73.48 (LILA AVENUE)
Elev. 571.64
Elev. 571.89
Elev. 571.95
2
+12.48%
+1.56%
STA. 105+03.53 (LILA AVENUE)
Elev. 571.85
Elev. 571.78
Elev. 571.62
+1.56%
+4.10%
STA. 105+16.13 (LILA AVENUE)
Elev. 572.01
Elev. 571.95
Elev. 571.89
4
+1.56%
+1.34%
STA. 105+75.44 (LILA AVENUE)
Elev. 572.40
Elev. 572.46
7'
+0.87%
STA. 106+84.88 (LILA AVENUE)
Elev. 573.85
Elev. 573.90
8'
+0.58%
STA. 109+85.14 (LILA AVENUE)
Elev. 574.94
Elev. 574.85
Elev. 574.57
6'
4'
+1.56%
+7.76%
STA. 110+87.77 (LILA AVENUE)
Elev. 575.84
Elev. 575.53
4'
+7.47%
STA. 111+91.47 (LILA AVENUE)
Elev. 576.76
Elev. 576.35
5'
+8.57%
STA. 112+69.19 (LILA AVENUE)
Elev. 577.59
Elev. 577.50
Elev. 577.10
6'
4'
+1.56%
+10.16%
STA. 113+23.70 (LILA AVENUE)
Elev. 580.48
Elev. 580.47
11'
+0.16%
STA. 115+44.07 (LILA AVENUE)
Elev. 576.35
Elev. 576.99
Elev. 577.05
6'
4'
+10.69%
+1.56%
STA. 112+76.94 (LILA AVENUE)
Elev. 580.75
Elev. 581.39
Elev. 581.45
6'
4'
+10.55%
+1.56%
STA. 115+54.47 (LILA AVENUE)
Elev. 586.48
Elev. 586.60
Elev. 586.70
4'
6'
+2.95%
+1.56%
STA. 117+92.43 (LILA AVENUE)
HORIZONTAL SCALE IN FEET
0
10
20
5
LILA AVENUE DRIVE DETAILS
CLE US 50/SR 28 0.83/0.00
MODEL: 101+76.62 - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:00 PM USER: kcollins
H:\2014\140180\060\117210\400-Engineering\Roadway\Sheets\117210_GD002.dgn
DESIGN AGENCY
THE KLEINGERS GROUP
DESIGNER
KJC
REVIEWER
TSC 01/31/25
PROJECT ID
117210
SHEET
24
TOTAL
43







TYLER AVE.



*TAPER CURB FROM 0" TO NECESSARY HEIGHT, 2' MIN.

RAMP LANDING

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CLE US 50/SR 28 0.83/0.00
CURB RAMP DETAILS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 25 TOTAL 43

CLE US 50/SR 28 0.83/0.00

MODEL: US 50 (LILA AVENUE) - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:03 PM USER: kcollins
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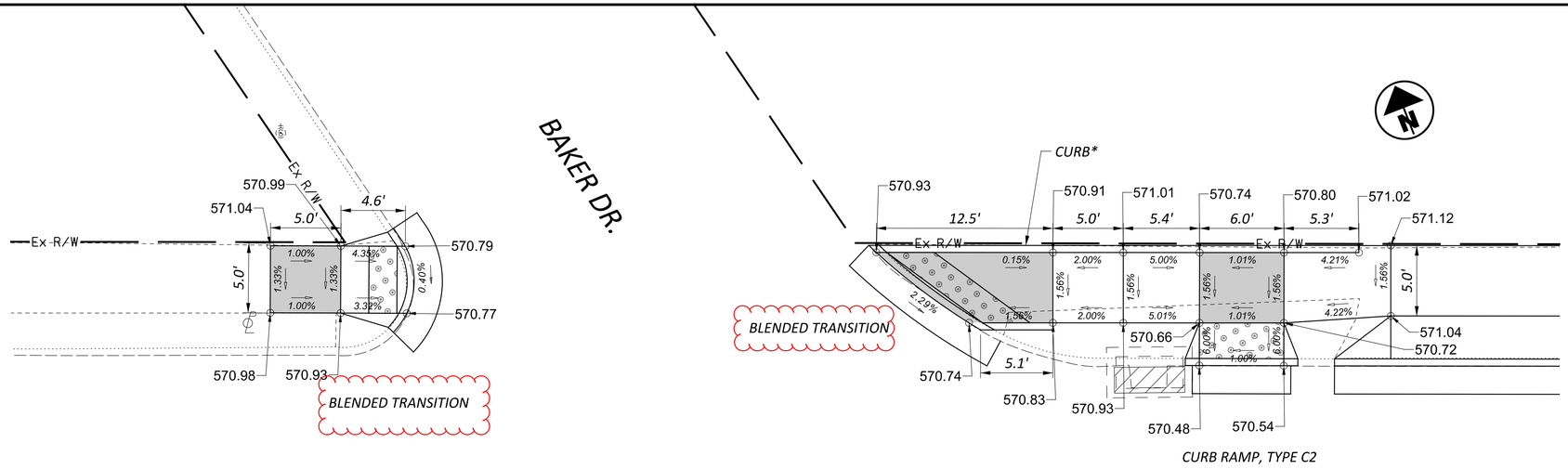
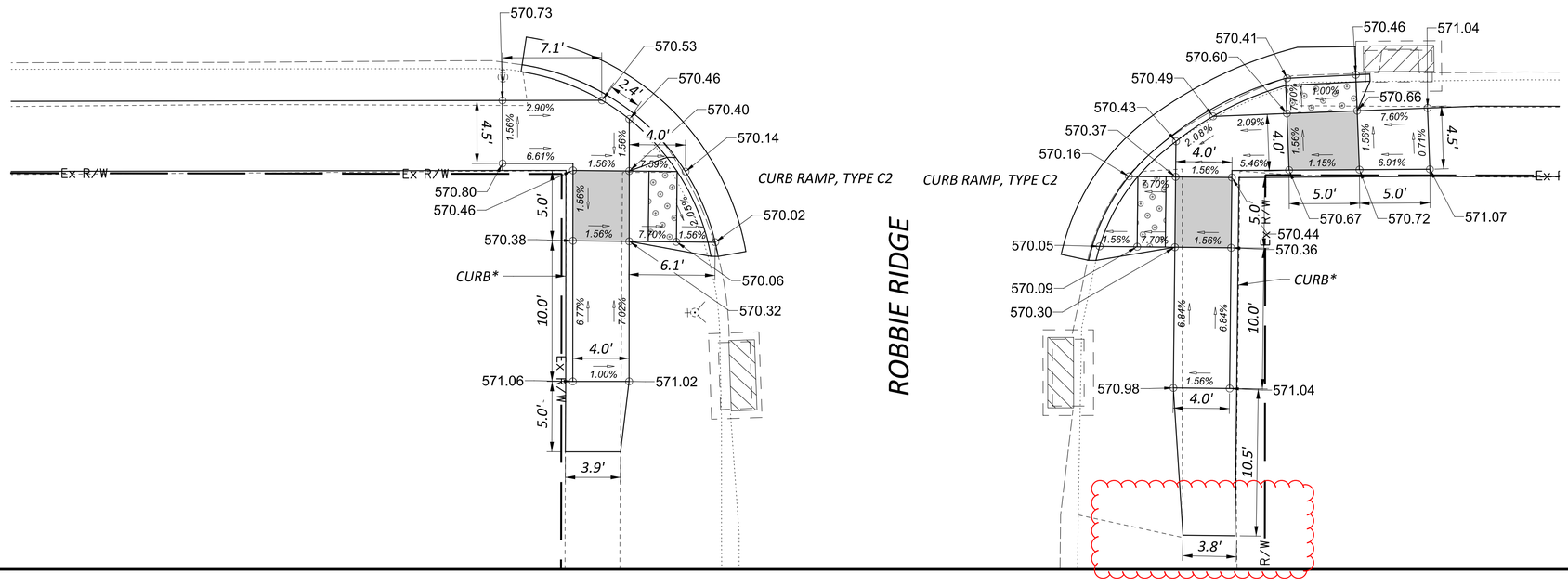


℄ CONSTRUCTION <US 50 (LILA AVENUE)>

20



*TAPER CURB FROM 0" TO NECESSARY HEIGHT, 2' MIN.

RAMP LANDING

HORIZONTAL SCALE IN FEET
0 2.5 5 10

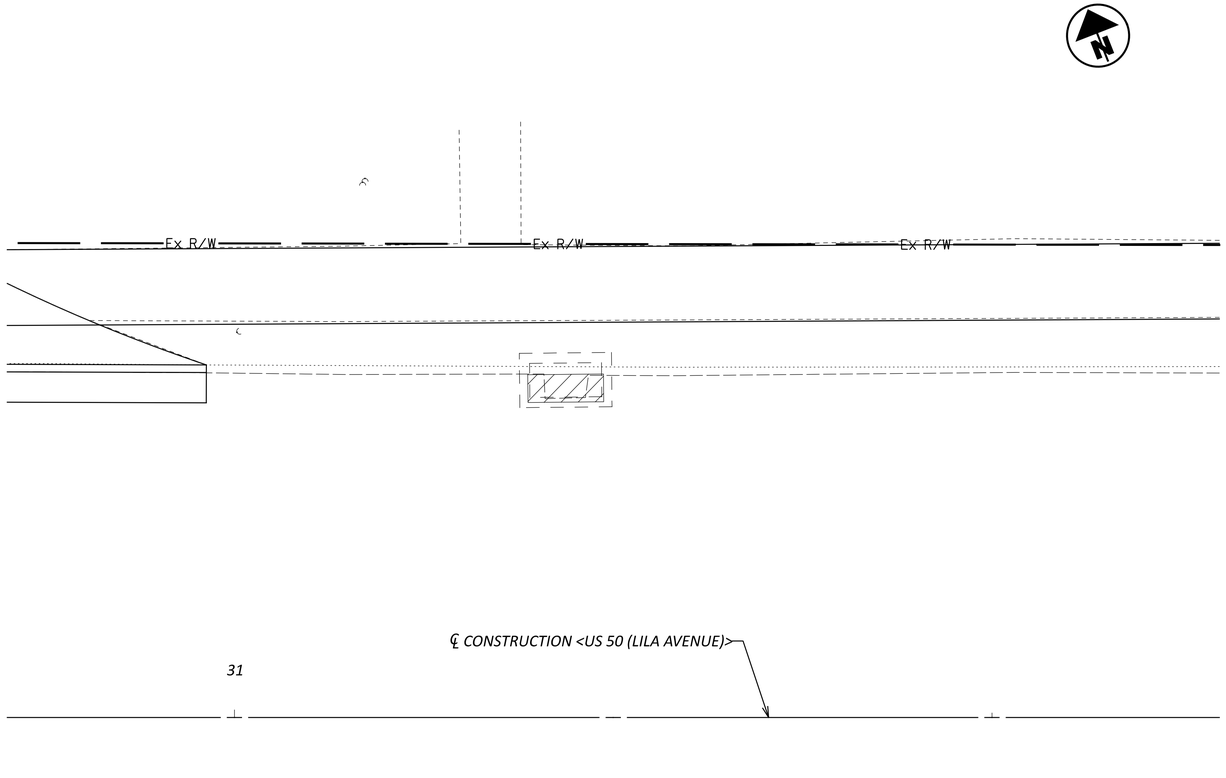
CLE US 50/SR 28 0.83/0.00
CURB RAMP DETAILS

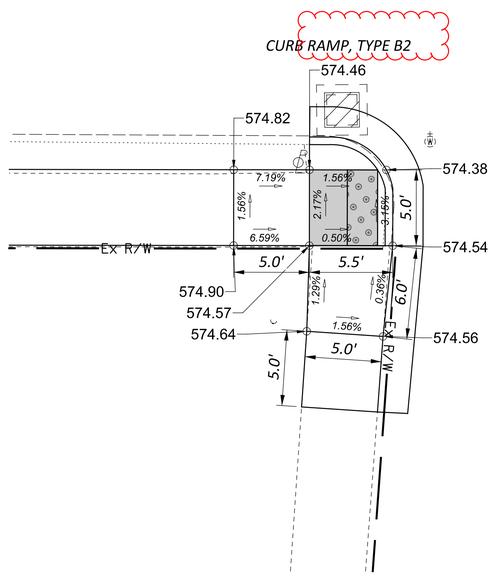
DESIGN AGENCY
THE KLEINGERS GROUP

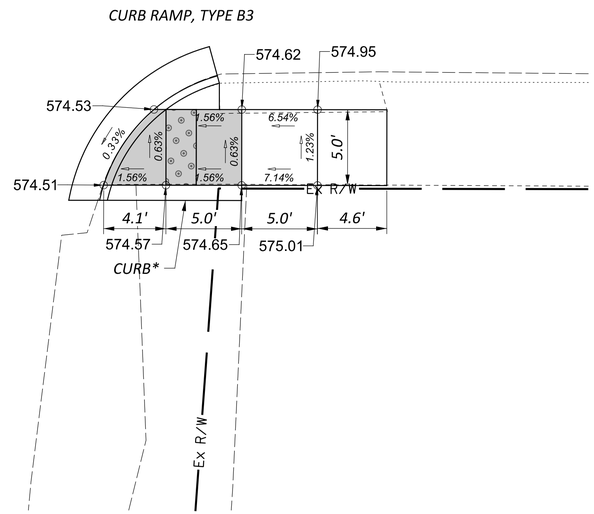
DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 26 TOTAL 43

CLE US 50/SR 28 0.83/0.00

MODEL: US 50 (LILA AVENUE)-1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:05 PM USER: kcollins
H:\2014\140180\060\117210\400-Engineering\Roadway\Sheets\117210_GI001.dgn







SLAGLE DR.

*TAPER CURB FROM 0" TO NECESSARY HEIGHT, 2' MIN.

RAMP LANDING

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CLE US 50/SR 28 0.83/0.00
CURB RAMP DETAILS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 27 TOTAL 43

CLE US 50/SR 28 0.83/0.00

MODEL: US 50 (LILA AVENUE)-2 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:05 PM USER: kcollins
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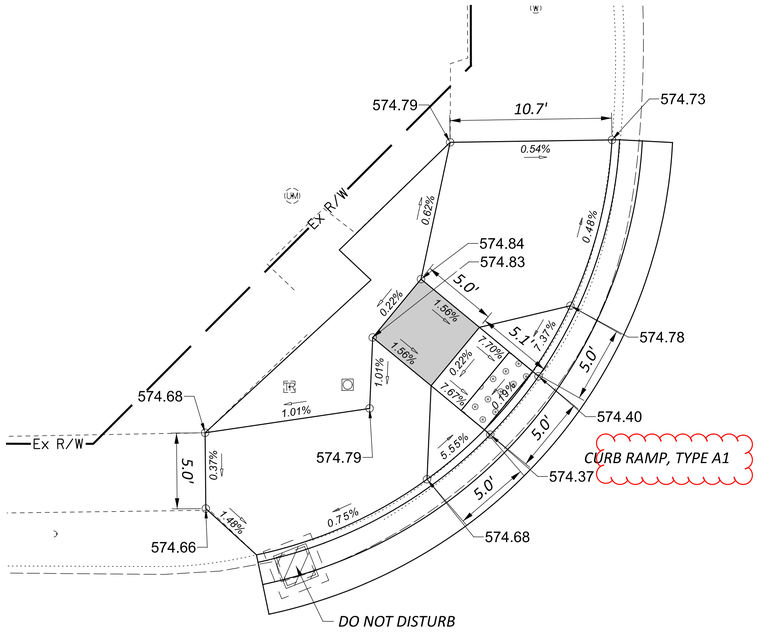
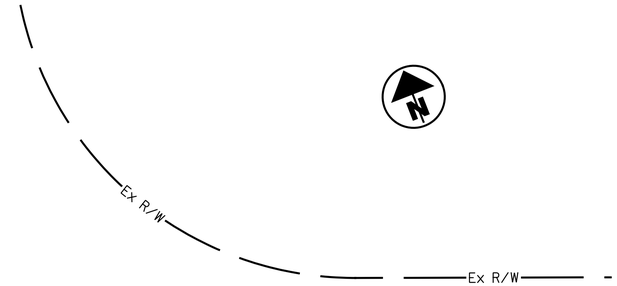


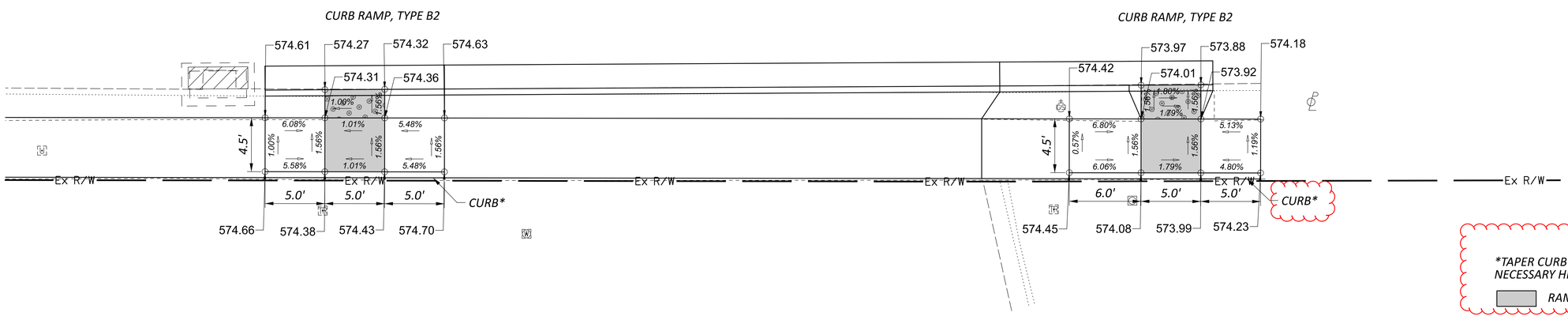
MOHAWK TR.



HORIZONTAL SCALE IN FEET
0 2.5 5 10

℄ CONSTRUCTION <US 50 (LILA AVENUE)>

33



CLE US 50/SR 28 0.83/0.00
CURB RAMP DETAILS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 28 TOTAL 43

CLE US 50/SR 28 0.83/0.00
MODEL: US 50 (LILA AVENUE)-3 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:06 PM USER: kcollins
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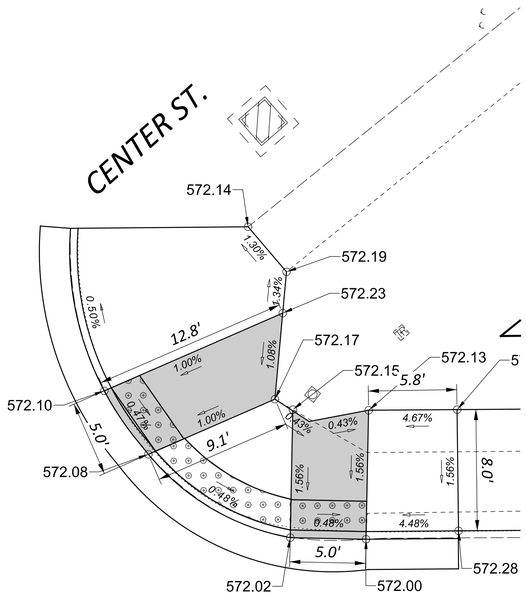
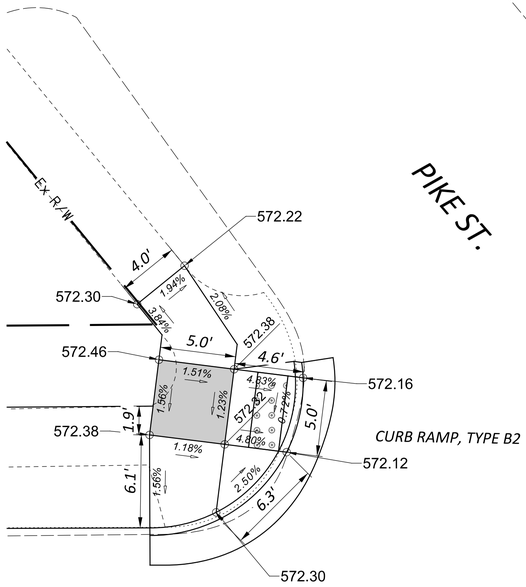
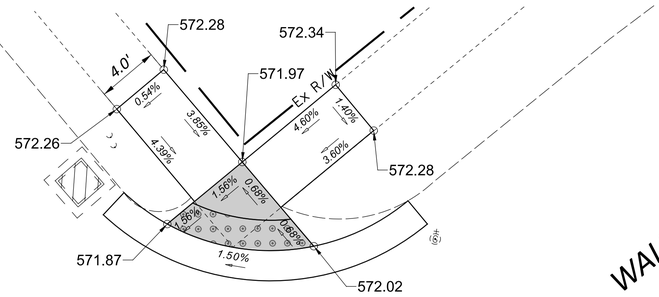


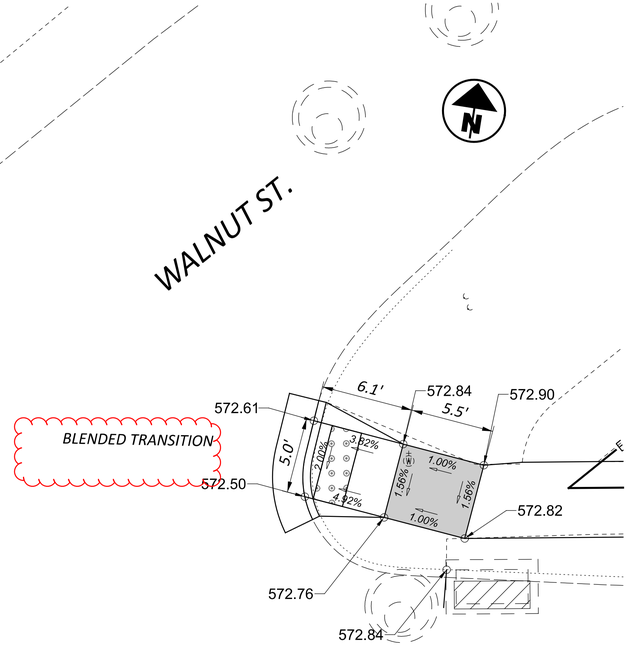
CURB RAMP, TYPE B2



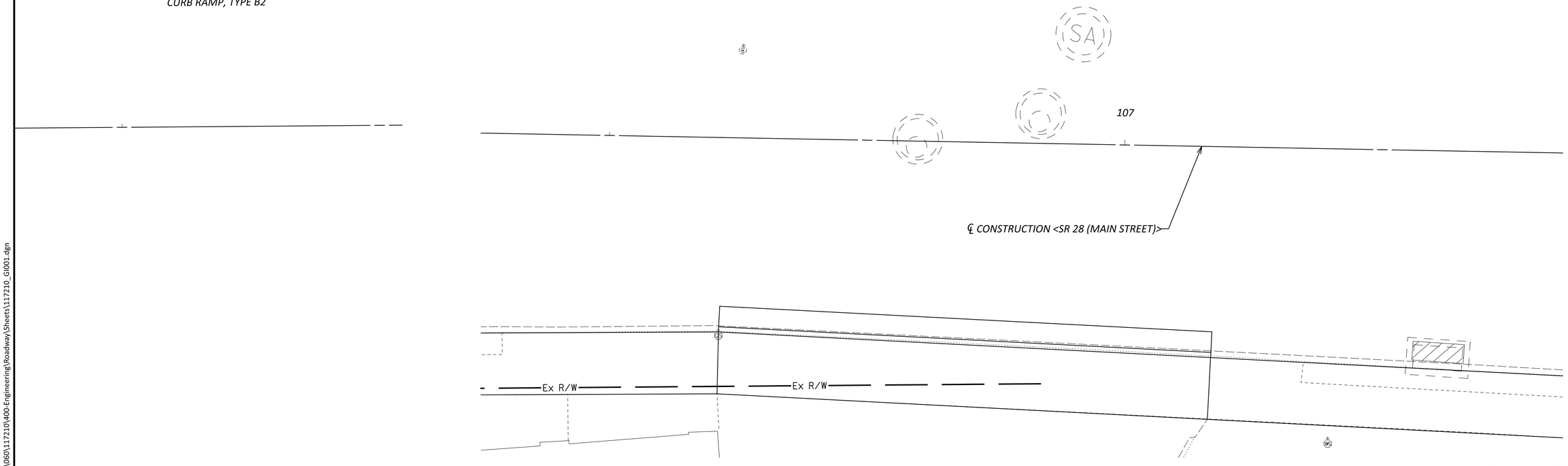
CURB RAMP, TYPE B2



BLENDED TRANSITION



BLENDED TRANSITION



**TAPER CURB FROM 0" TO NECESSARY HEIGHT, 2' MIN.*

RAMP LANDING

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CLE US 50/SR 28 0.83/0.00
CURB RAMP DETAILS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 29 TOTAL 43

CLE US 50/SR 28 0.83/0.00

MODEL: SR 28 (MAIN STREET) - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:06 PM USER: kcollins
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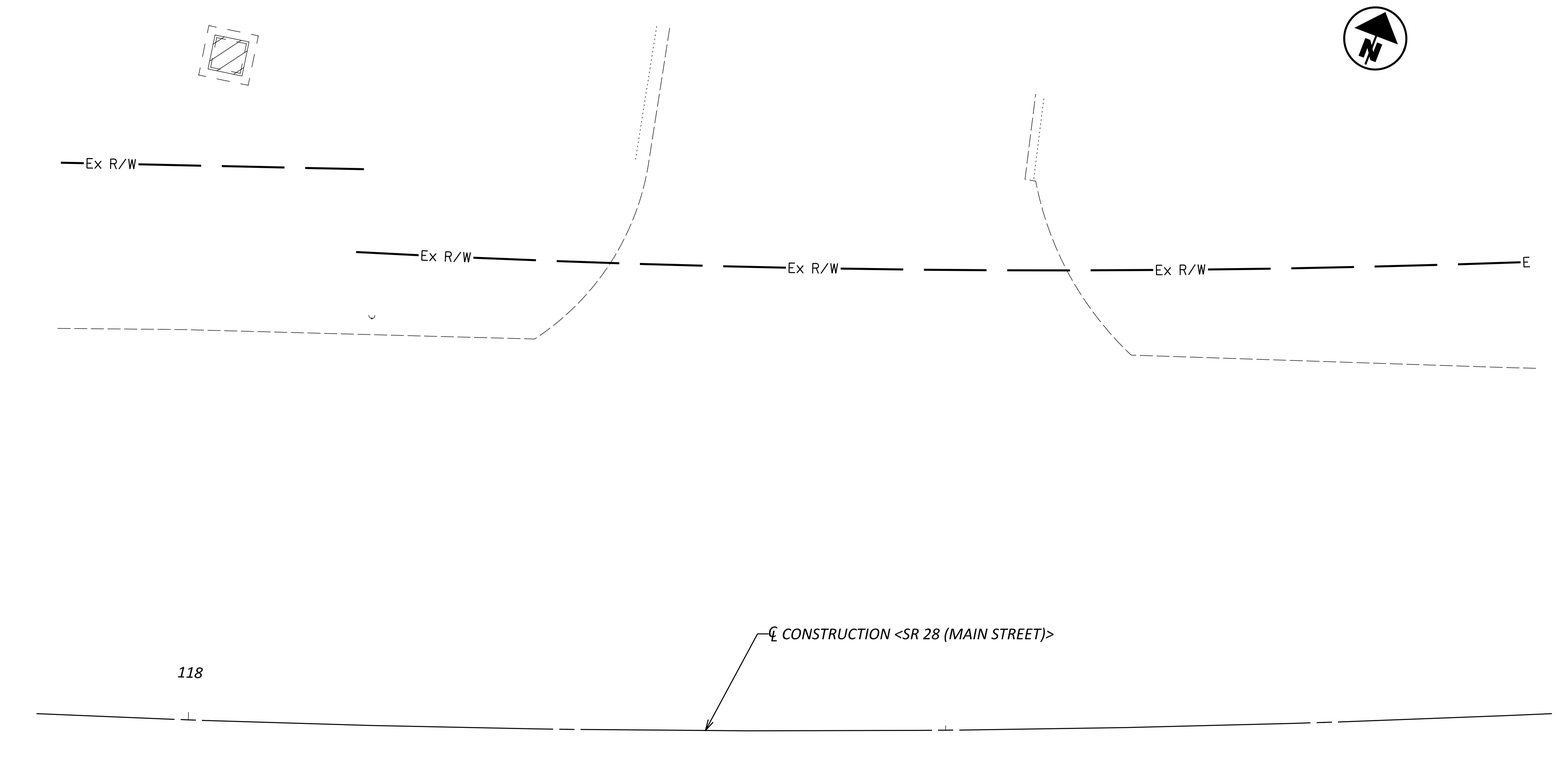
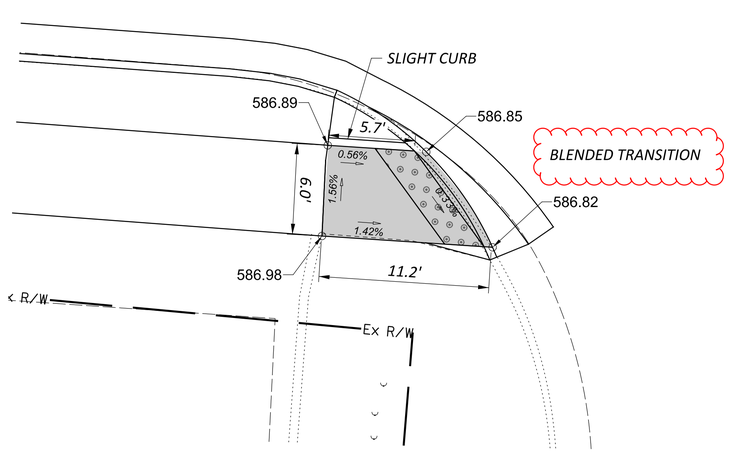
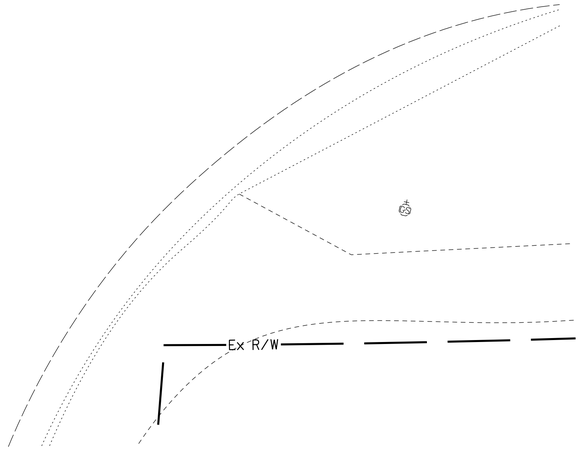




KIRGAN AVE.



*TAPER CURB FROM 0" TO NECESSARY HEIGHT, 2' MIN.

RAMP LANDING

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CLE US 50/SR 28 0.83/0.00
CURB RAMP DETAILS

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER KJC
REVIEWER TSC 01/31/25
PROJECT ID 117210
SHEET 31 TOTAL 43

CLE US 50/SR 28 0.83/0.00

MODEL: SR 28 (MAIN STREET)-2 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:07 PM USER: kcollins
H:\2014\140180\060\117210\400-Engineering\Roadway\Sheets\117210_GI001.dgn

REF NO.	SHEET NO.	STATION TO STATION	625 CONDUIT, 2", 725.051, AS PER PLAN (FT)	625 CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2" (FT)	625 TRENCH, 30" DEEP (FT)	625 PULL BOX, MISC.: DUKE PULL BOX, INSTALLATION ONLY (EACH)	625 UNDERGROUND WARNING/MARKING TAPE (FT)
L1	35	104+08.42, 20.76' LT					
L1 to B1	35	104+08.42 LT TO 104+88.09 LT	80		80		80
LP-3	35	104+97.02, 20.64' LT					
LP-3 to B1	35	104+97.02 LT TO 104+88.09 LT	9		9		9
B1	35	104+88.09, 20.81' LT				1	
B1 to L2	35	104+88.09 LT TO 105+54.59 LT	68		68		68
L2	36	105+54.59, 20.97' LT					
L2 to L3	36	105+54.59 LT TO 106+28.82 LT	75		75		75
L3	36	106+28.82, 22.97' LT					
L3 to UP	36	106+28.82 LT TO 106+41.27 LT	13		13		13
UP	36	106+41.27, 23.65' LT					
LP-4	36	107+15.29, 29.68' RT					
LP-4 to L4	36	107+15.29 RT TO 108+02.78 RT	88		88		88
L4	36	108+02.78, 30.36' RT					
UP	37	110+40.95, 27.68' RT					
UP TO L5	37	110+40.95 RT TO 110+72.53 RT	33		33		33
L5	37	110+72.53, 22.14' RT					
UP	37	110+55.32, 32.19' LT					
UP TO L6	37	110+55.32 LT TO 111+55.04 LT	105		105		105
L6	37	111+55.04, 20.54' LT					
L6 to L7	37	111+55.04 LT TO 112+95.15 LT	140		140		140
L7	37	112+95.15, 20.64' LT					
L8	37	113+68.99, 21.72' RT					
L8 to LP-8	37	113+68.99 LT TO 115+08.48 LT	143		143		143
LP-8	38	115+08.48, 20.93' RT					
L9	37	114+38.29, 20.85' LT					
L9 to B2	37	114+38.29 LT TO 114+99.25 LT	69		69		69
B2	37	114+99.25, 31.74' LT				1	
B2 to UP	37	114+99.25 LT TO 115+07.01 LT	10		10		10
UP	38	115+07.01, 36.68' LT					
B2 to L10	37	114+99.25 LT TO 116+02.16 LT	108		108		108
L10	38	116+02.16, 24.06' LT					
L10 to L12	38	116+02.16 LT TO 117+59.63 LT	155		155		155
L12	38	117+59.63, 25.81' LT					
UP	38	116+66.80, 21.69' RT					
UP to L11	38	116+66.8 RT TO 116+82.38 RT	16		16		16
L11	38	116+82.38, 22.90' RT					
UP	40	16+03.96, 26.61' LT					
UP to L13	40	16+03.96 LT TO 16+10.58 LT	7		7		7
L13	40	16+10.58, 26.00' LT					
L14	40	16+44.29, 21.12' RT					
L14 to UP	40	16+44.29 RT TO 16+55.60 RT	12		12		12
UP	40	16+55.60, 21.00' RT					
L15	40	17+92.44, 20.69' RT					
L15 to UP	40	17+92.44 RT TO 18+50.82 RT	59		59		59
UP	40	18+50.82, 20.33' RT					
L16	40	18+71.08, 27.11' LT					
L16 to B3	40	18+71.08 LT TO 18+71.28 LT	3		3		3
B3	40	18+71.28, 29.99' LT				1	
B3 to B4	40	18+71.28 LT TO 19+21.64 LT		51			
B4	41	19+21.64, 30.40' LT				1	
B4 to UP	41	19+21.64 LT TO 19+56.81 LT	35		35		35
UP	41	19+56.81, 27.36' LT					
TOTALS CARRIED TO GENERAL SUMMARY			1228	51	1228	4	1228

CLE US 50/SR 28 0.83/0.00

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CLE US 50/SR 28 0.83/0.00
LIGHTING SUBSUMMARY

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER
TAH

REVIEWER
MWN 01/31/25

PROJECT ID
117210

SHEET 32 TOTAL 43

REF NO.	SHEET NO.	STATION TO STATION	625 CONDUIT, 2", 725.051, AS PER PLAN (FT)	625 CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2" (FT)	625 TRENCH, 30" DEEP (FT)	625 PULL BOX, MISC.: DUKE PULL BOX, INSTALLATION ONLY (EACH)	625 UNDERGROUND WARNING/MARKING TAPE (FT)
L17	41	20+81.57, 26.64' LT					
L17 to B5	41	20+81.57 LT TO 21+31.00 LT	52		52		52
B5	41	21+31.00, 26.46' LT				1	
B5 to B6	41	21+31.00 LT TO 21+70.63 LT		40			
B6	41	21+70.63, 26.56' LT				1	
B6 to B7	41	21+70.63 LT TO 22+35.56 LT	65		65		65
B7	41	22+35.56, 26.73' LT				1	
B7 to LP-15	41	22+35.56 LT TO 22+41.23 LT	6		6		6
LP-15	41	22+41.23, 27.16' LT					
B7 to LP-19	41	22+35.56 LT TO 23+01.45 LT	68		68		68
LP-19	41	23+01.45, 26.18' LT					
L18	41	21+61.23, 21.53' RT					
L18 to UP	41	23+01.45 RT TO 21+70.44 RT	10		10		10
UP	41	21+70.44, 20.60' RT					
UP	41	23+02.55, 21.30' RT					
UP to L20	41	23+02.55 RT TO 23+60.22 RT	58		58		58
L20	41	23+60.22, 21.79' RT					
UP	42	24+34.30, 26.76' LT					
UP to L21	42	24+34.30 LT TO 24+40.22 LT	6		6		6
L21	42	24+40.22, 26.10' LT					
L22	42	25+11.46, 21.91' RT					
L22 to B8	42	25+11.46 RT TO 25+49.95 RT	41		41		41
UP		25+46.45, 21.73' RT					
UP to B8	42	25+46.45 RT TO 25+49.95 RT	4		4		4
B8	42	25+49.95, 21.74' RT				1	
B8 to L24	42	25+49.95 RT TO 26+71.46 RT	124		124		124
L24	42	26+71.46, 22.33' RT					
UP	42	25+50.45, 26.60' LT					
UP to L23	42	25+50.45 LT TO 25+91.46 LT	42		42		42
L23	42	25+91.46, 25.69' LT					
UP	42	27+22.01, 25.16' LT					
UP to L25	42	27+22.01 LT TO 27+51.46 LT	30		30		30
L25	42	27+51.46, 25.47' LT					
L26	42	28+60.54, 22.60' RT					
L26 to UP	42	28+60.54 RT TO 28+79.74 RT	22		22		22
UP	42	28+79.74, 22.70' RT					
UP	43	29+44.52, 25.38' LT					
UP to L27	43	29+44.52 LT TO 29+54.81 LT	11		11		11
L27	43	29+54.81, 24.81' LT					
L28	43	30+40.94, 22.76' RT					
L28 to LP-17	43	30+40.94 RT TO 31+04.08 RT	64		64		64
LP-17	43	31+04.08, 23.03' RT					
UP	43	31+08.38, 25.57' LT					
UP to L29	43	31+08.38 LT TO 31+45.57 LT	38		38		38
L29	43	31+45.57, 24.38' LT					
UP	43	32+11.62, 22.84' RT					
UP to L30	43	32+11.62 RT TO 32+24.73 RT	14		14		14
L30	43	32+24.73, 23.04' RT					
TOTALS CARRIED TO GENERAL SUMMARY			655	40	655	4	655

CLE US 50/SR 28 0.83/0.00

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CLE US 50/SR 28 0.83/0.00
LIGHTING SUBSUMMARY

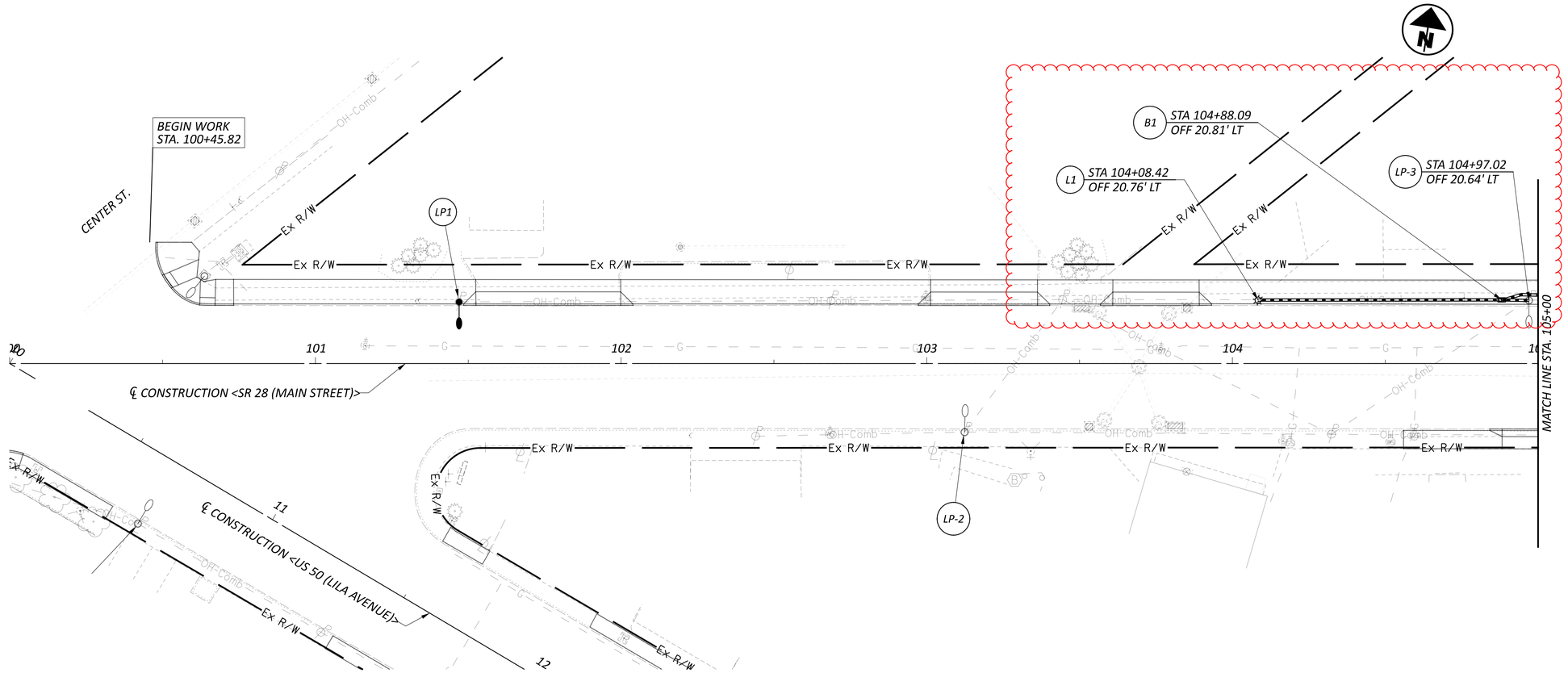
DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER
TAH

REVIEWER
MWN 01/31/25

PROJECT ID
117210

SHEET 33 TOTAL 43



LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)	▣	▣
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)	●—	○—
LIGHTING CONDUIT, 2"	▬	

LIGHTING NOTES

1. THIS PROJECT INCLUDES THE INSTALLATION OF CONDUIT AND PULLBOXES. CONTRACTOR SHALL COORDINATE THE TIMING OF CONSTRUCTION OF ROADWAY IMPROVEMENTS WITH DUKE ENERGY, WHO WILL BE INSTALLING THE LIGHT POLE FOUNDATIONS, LIGHT POLES, LUMINAIRES, AND WIRING.
2. AT PROPOSED LIGHT POLE LOCATIONS, CONTRACTOR SHALL INSTALL CONDUIT ENDS PER THE CONDUIT AND FOUNDATION DETAIL PRESENTED IN THE LIGHTING NOTES.
3. ALL CONDUIT SHALL ADHERE TO "ITEM 625 - CONDUITS, 725.051, 2", AS PER PLAN", IN TRENCH UNLESS NOTED OTHERWISE.
4. UTILITY POLE MOUNTED LED LIGHT FIXTURES "LP-X" TO BE INSTALLED BY DUKE ELECTRIC. THESE PLANS IDENTIFY LOCATIONS WHERE EXISTING MERCURY VAPOR LIGHT FIXTURES SHALL BE REPLACED WITH L.E.D. LIGHT FIXTURES OR NEW L.E.D. LIGHT FIXTURES SHALL BE INSTALLED BY DUKE ELECTRIC. THESE LOCATIONS ARE SHOWN FOR COORDINATION PURPOSES ONLY.

HORIZONTAL SCALE IN FEET
0 10 20 40

SR 28 (MAIN STREET) LIGHTING PLAN
STA. 100+45.82 TO STA. 105+00

CLE US 50/SR 28 0.83/0.00

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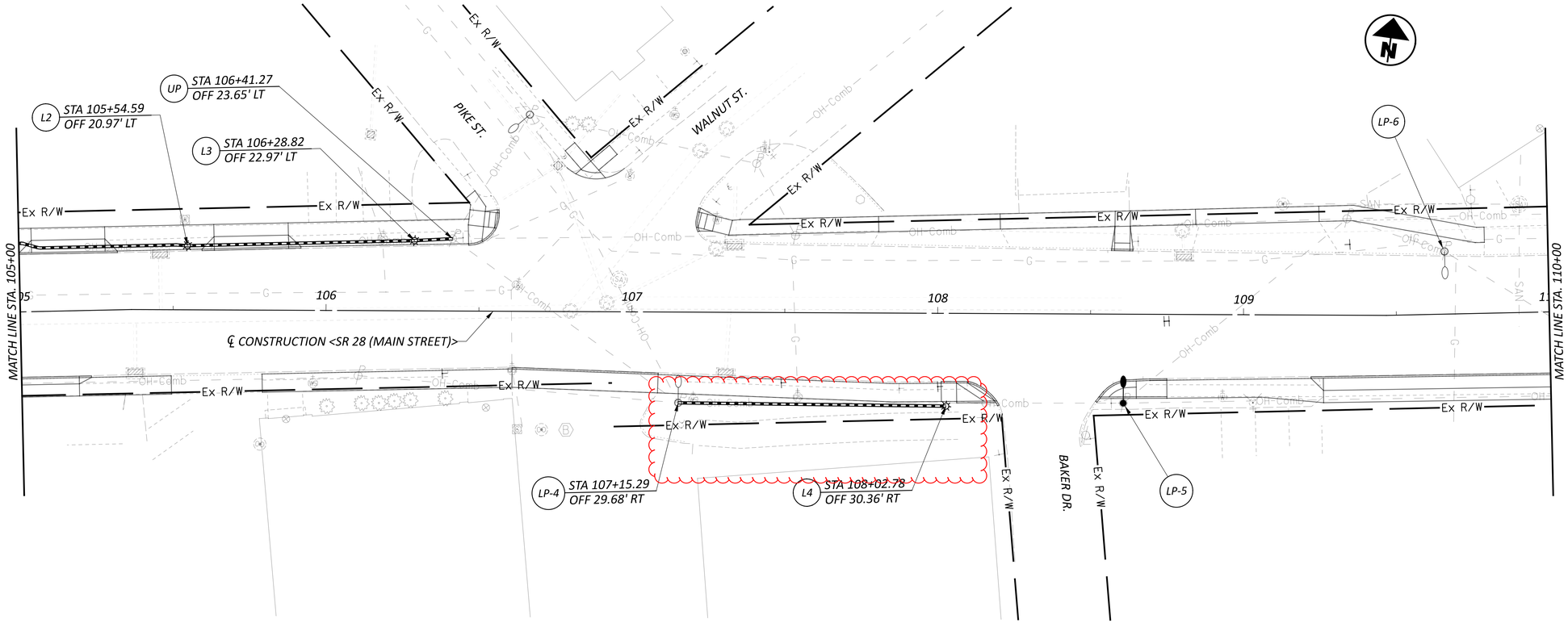
DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	TAH
REVIEWER	MWN 01/31/25
PROJECT ID	117210
SHEET	35
TOTAL	43



LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)	▣	▣
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)	●——	○——
LIGHTING CONDUIT, 2"	———	

LIGHTING NOTES

1. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

SR 28 (MAIN STREET) LIGHTING PLAN STA. 105+00 TO STA. 110+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	TAH
REVIEWER	MWN 01/31/25
PROJECT ID	117210
SHEET	36
TOTAL	43

CLE US 50/SR 28 0.83/0.00

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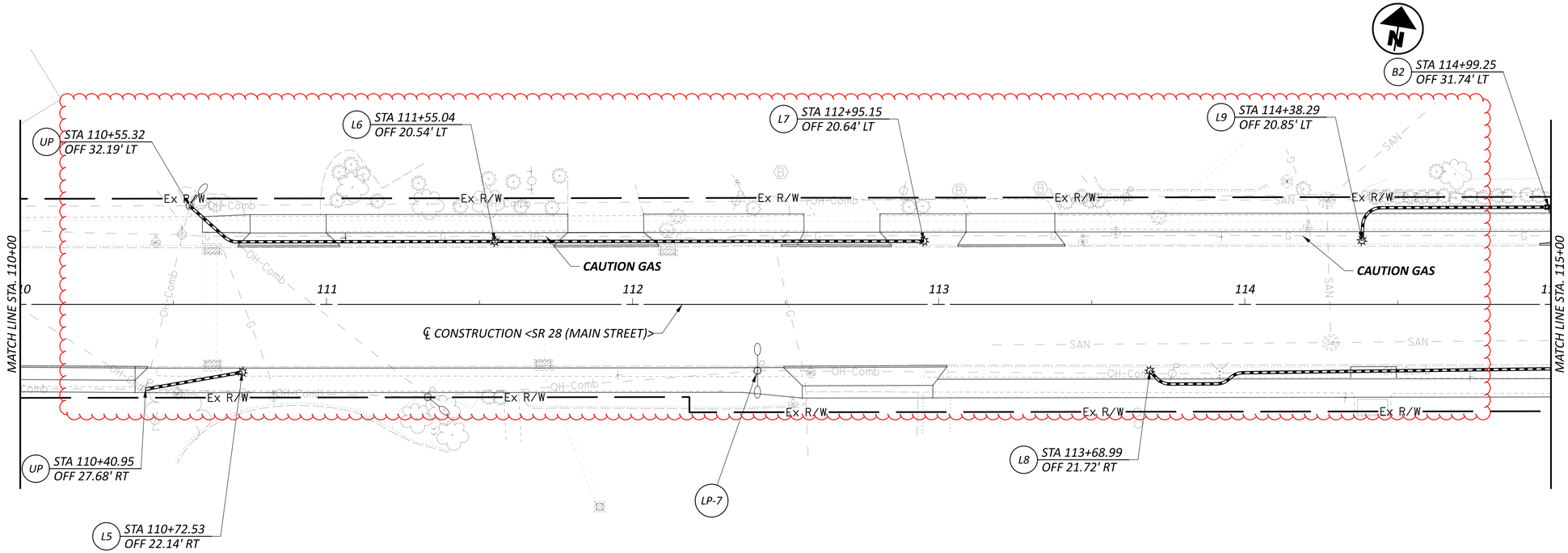

LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)	▣	▣
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)	●——	○——
LIGHTING CONDUIT, 2"	═══	

LIGHTING NOTES

1. PROPOSED POST-TOP LIGHT POLES L6, L7, AND L9 NEAR GAS LINE. HAND EXCAVATE FOUNDATIONS.
2. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

SR 28 (MAIN STREET) LIGHTING PLAN STA. 110+00 TO STA. 115+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	TAH
REVIEWER	MWN 01/31/25
PROJECT ID	117210
SHEET	37
TOTAL	43

CLE US 50/SR 28 0.83/0.00

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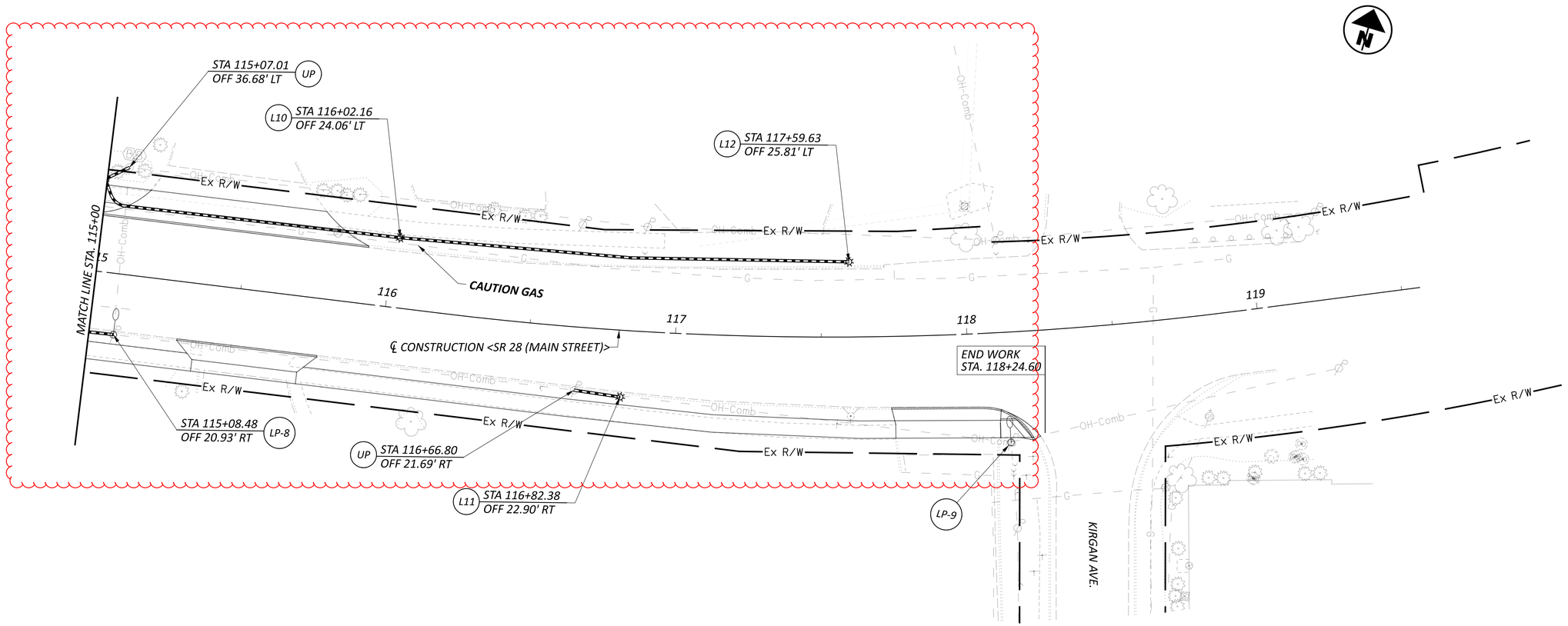

LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)		
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)		
LIGHTING CONDUIT, 2"		

LIGHTING NOTES

1. PROPOSED POST-TOP LIGHT POLE L10 NEAR GAS LINE. HAND EXCAVATE FOUNDATIONS.
2. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

SR 28 (MAIN STREET) LIGHTING PLAN
STA. 115+00 TO STA. 118+24.60

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	TAH
REVIEWER	MWN 01/31/25
PROJECT ID	117210
SHEET	38
TOTAL	43

CLE US 50/SR 28 0.83/0.00

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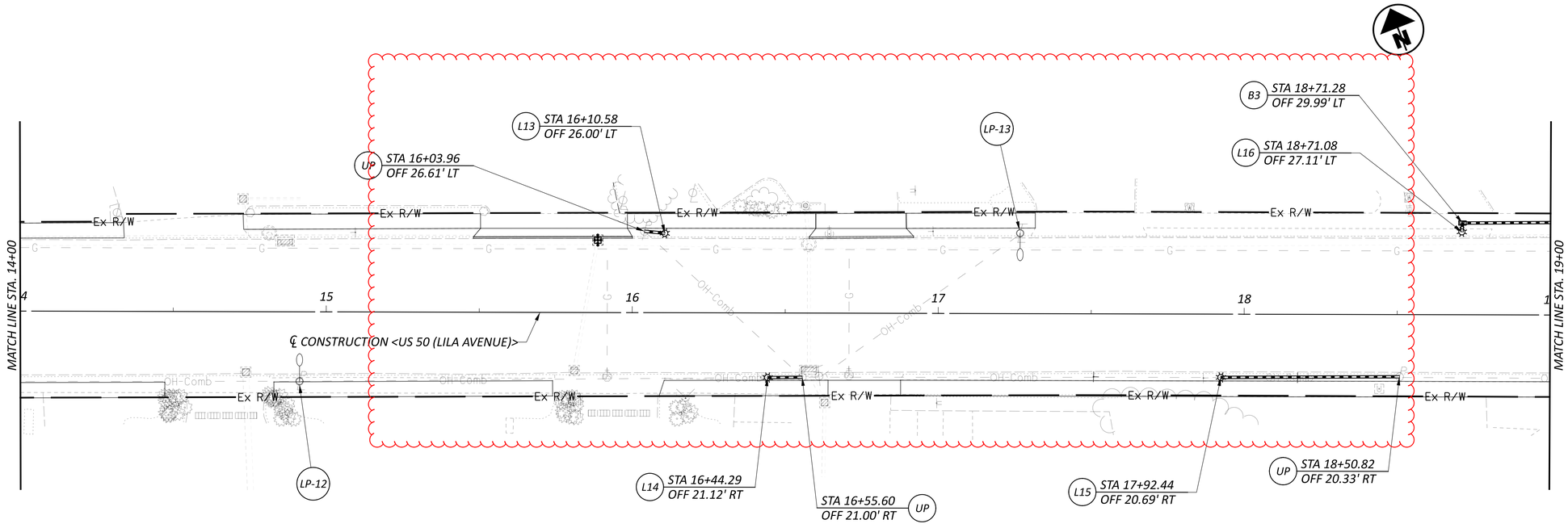

LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)		
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)		
LIGHTING CONDUIT, 2"		

LIGHTING NOTES

1. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) LIGHTING PLAN STA. 14+00 TO STA. 19+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER TAH
REVIEWER MWN 01/31/25
PROJECT ID 117210
SHEET 40 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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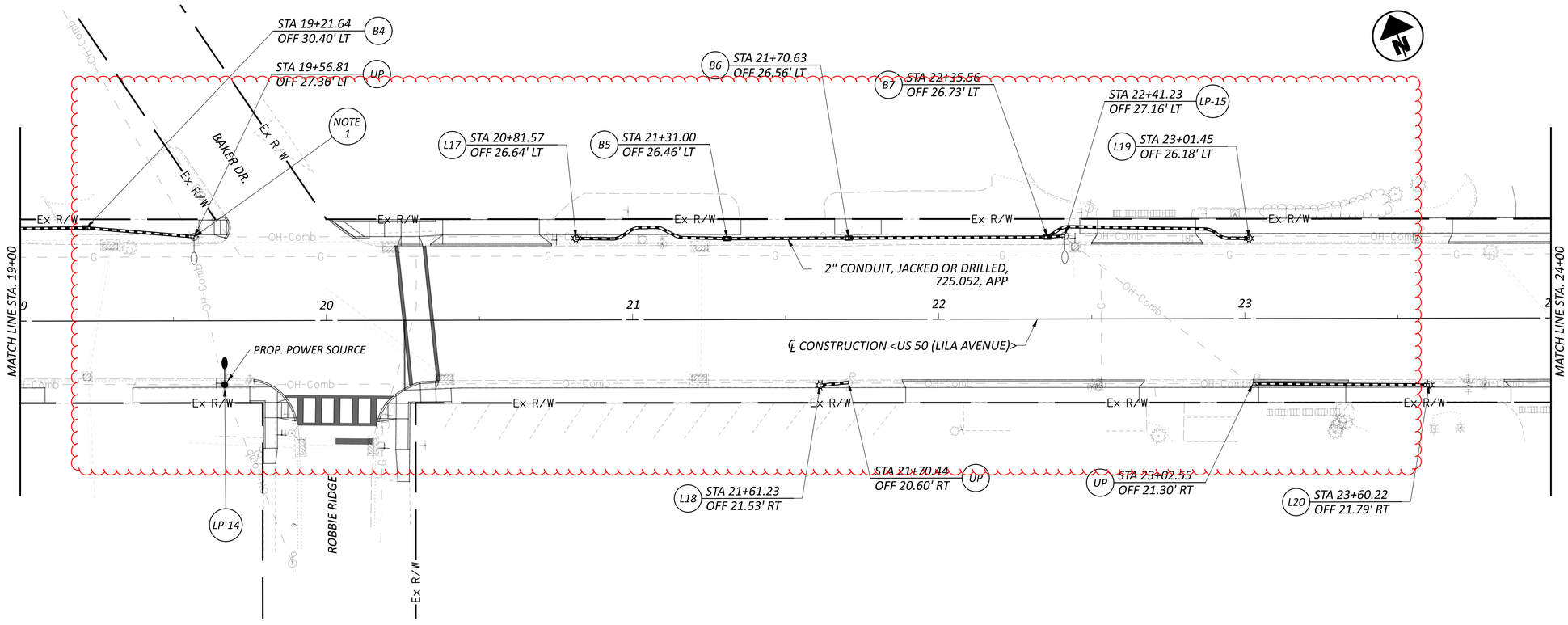

LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)	▯	▯
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)	●—	○—
LIGHTING CONDUIT, 2"	▬	

LIGHTING NOTES

1. EXISTING LUMINAIRE BRACKET MOUNTED TO UTILITY POLE PLANNED FOR REMOVAL BY DUKE ELECTRIC.
2. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) LIGHTING PLAN
STA. 19+00 TO STA. 24+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER	TAH
REVIEWER	MWN 01/31/25
PROJECT ID	117210
SHEET	41
TOTAL	43

CLE US 50/SR 28 0.83/0.00

MODEL: CLP_2 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:14 PM USER: kcollins
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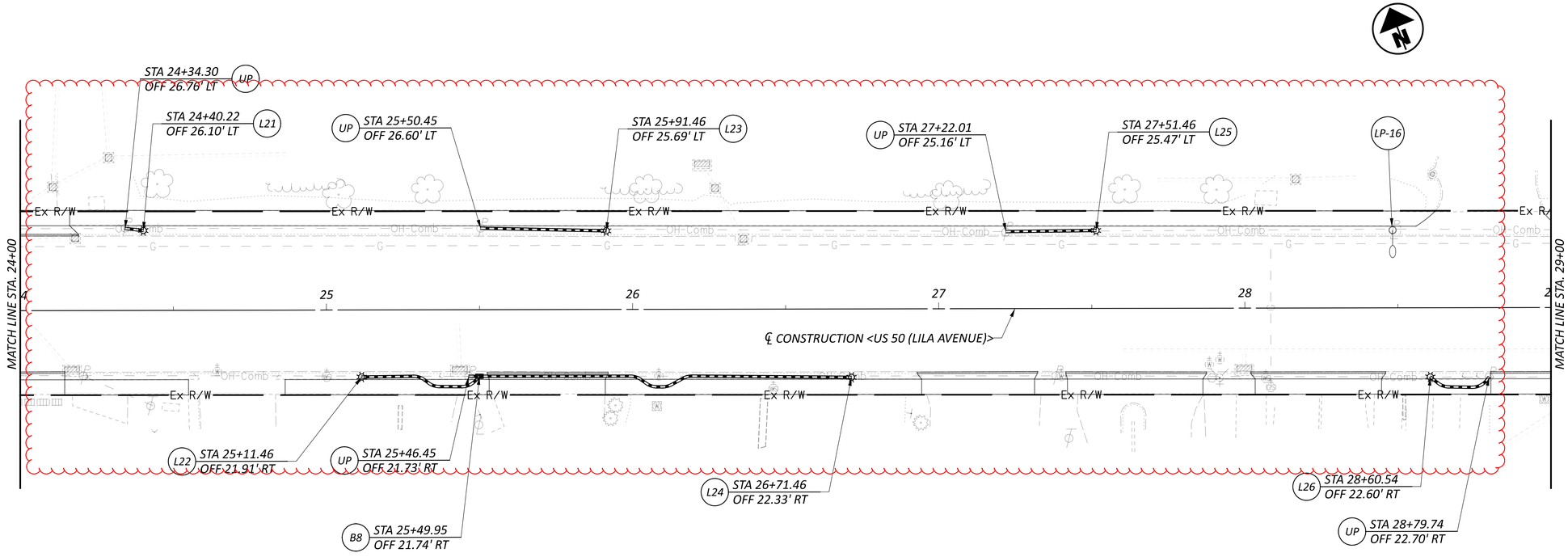

LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)		
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)		
LIGHTING CONDUIT, 2"		

LIGHTING NOTES

1. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) LIGHTING PLAN
STA. 24+00 TO STA. 29+00

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER TAH
REVIEWER MWN 01/31/25
PROJECT ID 117210
SHEET 42 TOTAL 43

CLE US 50/SR 28 0.83/0.00

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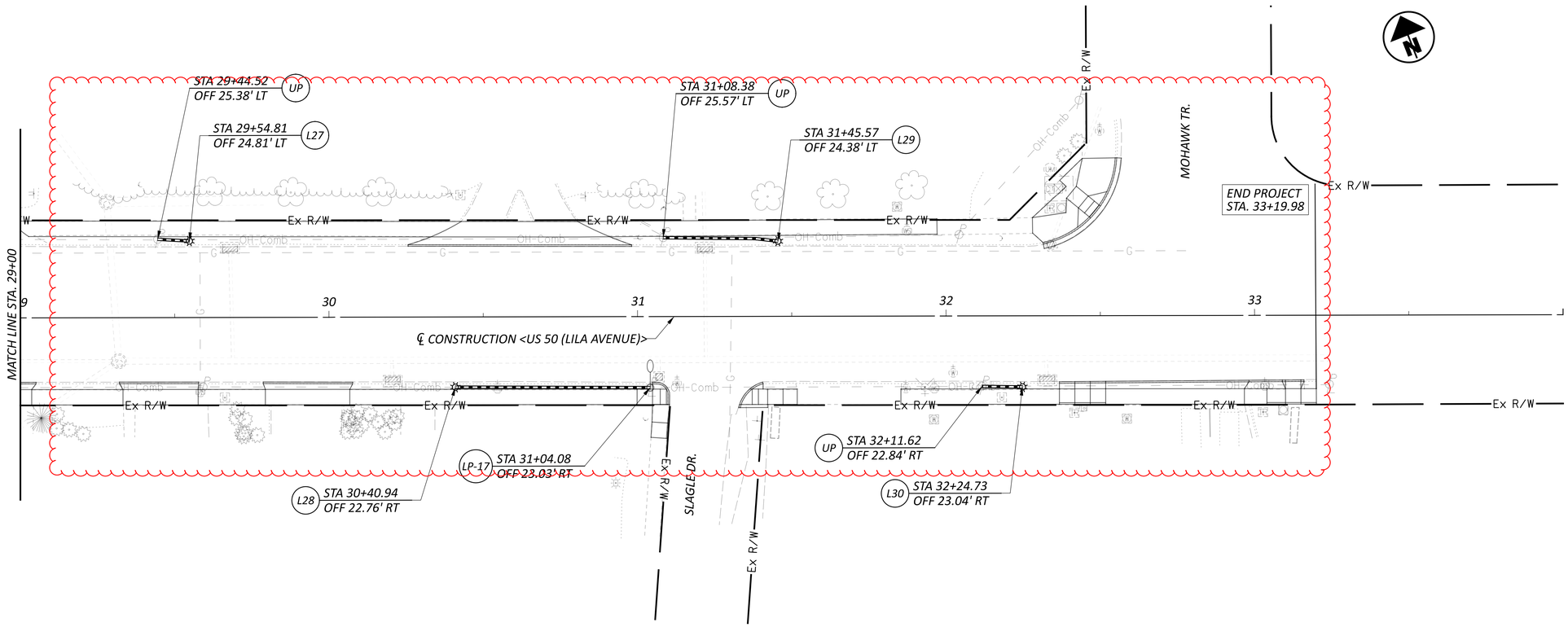

LEGEND

	PR.	EX.
LUMINAIRE, POST TOP (LX)	☼	☼
PULL BOX INSTALLATION (BX)		
LIGHT POLE, BRACKET ARM (LP-X) (ATTACHED TO UTILITY POLE)		
LIGHTING CONDUIT, 2"		

LIGHTING NOTES

1. ADDITIONAL STREET LIGHTING PLAN NOTES ON FIRST PLAN SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

US 50 (LILA AVENUE) LIGHTING PLAN
STA. 29+00 TO STA. 33+19.98

DESIGN AGENCY
THE KLEINGERS GROUP

DESIGNER TAH
REVIEWER MWN 01/31/25
PROJECT ID 117210
SHEET 43 TOTAL 43

CLE US 50/SR 28 0.83/0.00

MODEL: CLP_2 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/7/2025 TIME: 3:11:14 PM USER: kcollins
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