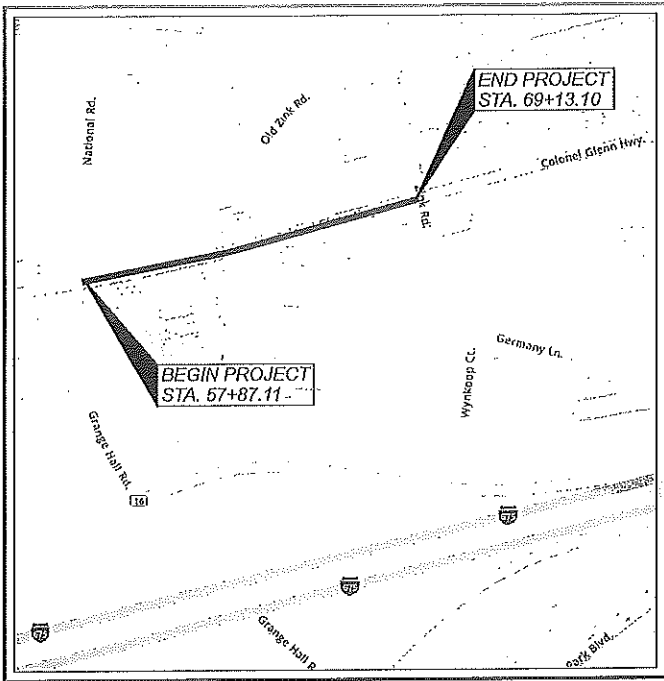


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
**GRE CR 1 1.07 COLONEL  
GLENN HIGHWAY**  
CITY OF BEAVERCREEK  
GREENE COUNTY



LOCATION MAP

LATITUDE: 39°46'30" LONGITUDE: -84°04'40"

PORTION TO BE IMPROVED

DESIGN DESIGNATION

CURRENT ADT (2021)	19,100
DESIGN YEAR ADT (2036)	20,000
DESIGN HOURLY VOLUME (2036)	2,300
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	1.3%
DESIGN SPEED	45 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
03 PRINCIPLE ARTERIAL (URBAN)	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE


ADA DESIGN WAIVERS

NOT REQUIRED

INDEX OF SHEETS:

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FINAL TRACINGS - 9/8/2023

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764 (Non members must be called directly)

PLAN PREPARED BY:



ENGINEER'S SEAL:



ENGINEER'S SEAL:

LIGHTING PLANS ONLY



STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	HL-10.11	7/15/22			800	4/21/23
BP-5.1	7/15/22	HL-10.12	1/20/23			813	10/19/18
BP-7.1	1/20/23	HL-10.13	1/20/23			832	7/21/23
		HL-20.11	10/21/22			913	4/16/21
LA-1.1	10/15/10	HL-30.11	1/15/21				
LA-2.1	1/16/09	HL-30.22	1/15/21				
		HL-60.11	7/21/17				
MT-95.31	7/19/19						
MT-101.90	7/17/20						
MT-105.10	1/17/20						
MT-110.10	7/19/13						
TC-41.20	10/18/13						
TC-42.20	10/18/13						
TC-52.20	1/15/21						

FEDERAL PROJECT NUMBER

E210217

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES DECORATIVE HARDSCAPE ENHANCEMENTS TO COLONEL GLENN HIGHWAY FROM NATIONAL ROAD TO ZINK ROAD INCLUDING BRICK PAVERS, SEATING WALLS, AND LIGHTING. THIS PROJECT ALSO INCLUDES THE REPLACEMENT OF DETERIORATED SECTIONS OF SIDEWALK.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.12 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Nick Yeretizian

Digitally signed by Nick Yeretizian  
DN: C=US,  
E=nick.yeretizian@kleingers.com,  
O=The Kleingers Group,  
OU=Transportation &  
Infrastructure Group, CN=Nick  
Yeretizian  
Location: West Chester Ohio  
Reason: I agree to specified  
portions of this document  
Contact Info:  
nick.yeretizian@kleingers.com  
Date: 2023.09.08 10:37:51-04'00'

Mark W. Nolt

Digitally signed  
by Mark W. Nolt  
Date: 2023.09.08  
10:42:21-04'00'

APPROVED

DATE 11-6-23

CITY OF BEAVERCREEK,  
CITY ENGINEER

DESIGN AGENCY



DESIGNER

KJC

REVIEWER

YSY 09/08/23

PROJECT ID

115009

SHEET

1

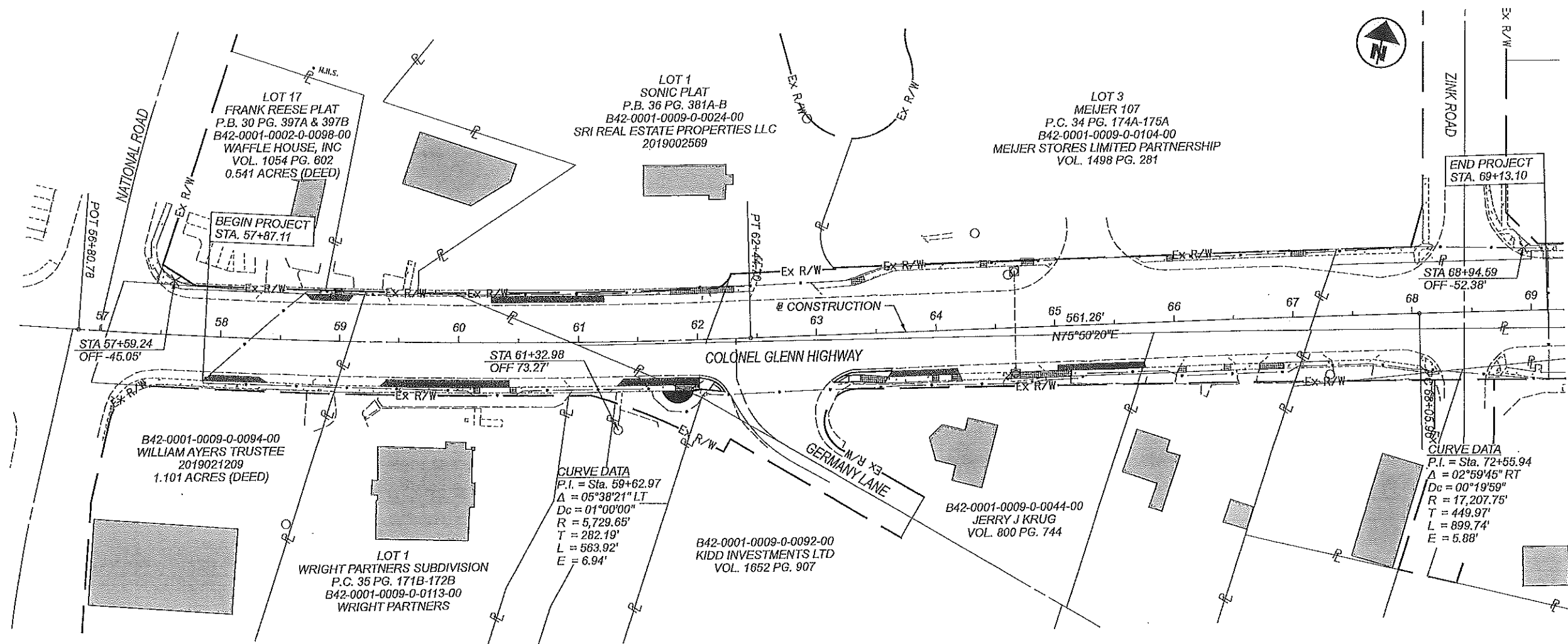
TOTAL

20

GRE-CR-1 1.07

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GRE CR 1 1.07 COL. GLENN HWY.

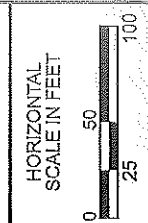


## CONTROL POINTS

CROSS NOTCH  
STA. 57+59.24, 45.05' LT  
N: 650303.32  
E: 1524580.37  
ELEV: 978.12

MAG NAIL SET  
STA. 61+32.98, 73.27' RT  
N: 650259.91  
E: 1524970.78  
ELEV: 986.59

CROSS NOTCH  
STA. 68.94.59, 52.38' LT  
N: 650567.18  
E: 1525680.47  
ELEV: 993.88

GRE CR 1 1.07 COL. GLENN HWY.  
SCHEMATIC LAYOUT

DESIGN AGENCY



DESIGNER

KJC

REVIEWER

YSY 09/08/23

PROJECT ID

115009

SHEET TOTAL

2 20

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

**WATER & SANITARY:**  
GREENE COUNTY SANITARY ENGINEERS  
667 DAYTON-XENIA ROAD  
XENIA, OH 45386  
937-562-5000  
ATTN: RANDY GILBERT  
RGILBERT@CO.GREENE.OH.US  
ATTN: MARISSA RAGLIN  
MRAGLIN@CO.GREENE.OH.US

**ELECTRIC AND GAS:**  
DP&L  
1900 DRYDEN RD.  
DAYTON, OH 45439  
937-554-9063  
ATTN: BILL WARD  
WILLIAM.WARD@AES.COM

**VECTREN**  
6500 CLOY ROAD  
CENTERVILLE, OH 45459  
937-312-2521  
ATTN: JEFF PIKE AND JEFF DONNELLY  
PUBLICPROJECT@CENTERPOINTENERGY.COM  
JEFFRY.T.PIKE@CENTERPOINTENERGY.COM  
JEFFRY.DONNELLY@CENTERPOINTENERGY.COM

**EVERSTREAM SOLUTIONS**  
1065 WOODMAN DRIVE  
DAYTON, OH 45432  
614-354-7866  
ATTN: KANN KHAY  
KKHAY@EVERSTREAM.NET

**TELEPHONE:**  
AT&T OHIO  
7201 FAR HILLS AVENUE  
CENTERVILLE, OH 45459  
937-296-3588  
ATTN: ALAN STUTES  
AST1634@ATT.COM

**FIBER:**  
CROWN CASTLE FIBER (LIGHTTOWER)  
10188 INTERNATIONAL BLVD  
CINCINNATI, OH 45246  
216-810-7165  
ATTN: CRAIG SNELL  
CRAIG.SNELL@CROWNCastle.COM

**BRIGHTSPEED**  
ATTN: LESLIE DINGMAN  
RELOCATION@LUMEN.COM  
LESLIE.DINGMAN@LUMEN.COM

**CHARTER (SPECTRUM) - DAYTON**  
3891 TURNER ROAD  
DAYTON, OH 45415  
ATTN: MARY EVANS  
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM  
MARY.EVANS@CHARTER.COM

**ALTIFIBER**  
221 E 4TH STREET (BUILDING 121-900)  
CINCINNATI, OH 45202  
513-565-7187  
ATTN: BRECK COWAN  
ROADPROJECTS@CINBELL.COM  
BRECK.COWAN@ALTAFIBER.COM

**METRONET**  
336 EAST NATIONAL ROAD  
VANDALIA, OHIO 45377  
937-576-1556

**STORM SEWER:**  
CITY OF BEAVERCREEK - ENGINEERING  
1368 RESEARCH PARK DRIVE  
BEAVERCREEK, OH 45432  
937-427-5513  
ATTN: JEFF MOORMAN  
MOORMAN@BEAVERCREEKOHIO.GOV

**CITY OF BEAVERCREEK**  
789 ORCHARD LANE  
BEAVERCREEK, OH 45432  
STREET SUPERINTENDENT  
937-427-5540  
BRANDENBURG@BEAVERCREEKOHIO.GOV

**UTILITY NOTIFICATION**  
ALL PROPER PRECAUTIONS SO AS NOT TO DISTURB OR DAMAGE SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ASSURE UNDERGROUND UTILITY LOCATIONS. (1800-362-2764). IT SHALL BE THE UTILITY COMPANY'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGED UTILITIES AT HIS OWN COST. LOCATIONS OF UTILITIES ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHOULD VERIFY WITH THE APPROPRIATE UTILITY COMPANY. THE COST FOR THE ABOVE DESCRIBED WORK IS INCIDENTAL TO THE OVERALL BID PRICE OF THE PROJECT. CONTRACTOR MAY NEED TO HAND DIG IN CERTAIN AREAS OR ALTER PLANTING LAYOUTS TO ENSURE NO UTILITY CONFLICTS OCCUR.

**COOPERATION WITH UTILITY COMPANIES**  
WHILE THE WORK OF THIS CONTRACT IS BEING PERFORMED, THE UTILITY COMPANIES MAY BE WORKING IN THE AREA ADJUSTING AND RESETTling 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 LOCATION 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 CITY 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.

**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.

**ELEVATION DATUM**  
USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**VERTICAL POSITIONING**  
ORTHOMETRIC HEIGHT DATUM: NAVD 88  
GEOID 18

**HORIZONTAL POSITIONING**  
REFERENCE FRAME: US STATE PLANE 1983  
ELLIPSOID: WGS 84  
MAP PROJECTION: LAMBERT CONFORMAL  
COORDINATE SYSTEM: STATE PLANE OHIO SOUTH ZONE  
COMBINED SCALE FACTOR: 1.0000801199

**ORIGIN OF COORDINATE SYSTEM:**  
651415,2462, 1529881,3645

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER= 3.280833333 U.S. SURVEY FEET.

**STANDARD SPECIFICATIONS**  
THE STANDARD SPECIFICATIONS OF THE CITY OF BEAVERCREEK AND THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMS), DATED JANUARY 1, 2023, AND THE NOTED STANDARD CONSTRUCTION DRAWINGS SHALL GOVERN THIS IMPROVEMENT.

WHEREVER THE WORD "DIRECTOR" OR "ENGINEER" OCCURS, IT IS TO MEAN THE CITY OF BEAVERCREEK ENGINEER AND/OR HIS DESIGNATED REPRESENTATIVE, LIMITED TO THE PARTICULAR DUTIES ENTRUSTED TO HIM.

**WORK LIMITS**  
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR THE PHYSICAL CONSTRUCTION. 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.

**PROTECTION OF AREA OUTSIDE WORK LIMITS**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AREAS OUTSIDE OF THE DESIGNATED WORK LIMITS, BUT WHICH MAY BE ADJACENT TO THOSE WORK LIMITS. THIS WILL INCLUDE THOSE AREAS USED BY CONSTRUCTION TRAFFIC FOR ACCESS TO AND FROM THE WORK AREAS. WHERE THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS HAVE BEEN RESPONSIBLE FOR DAMAGE TO AREAS OUTSIDE OF THE WORK LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF THE AREA SUBJECT TO THE APPROVAL OF THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY REPAIR OF THESE AREAS.

**SUBSURFACE CONDITIONS**  
PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL EXAMINE AND INSPECT THE CONSTRUCTION SITE TO DETERMINE THE LOCATION OF THE WORK WITH RESPECT TO THE OBSTACLES TO BE ENCOUNTERED INCLUDING, WITHOUT LIMITATION, THE CHARACTER OF SURFACE OR SUBSURFACE CONDITIONS AND SHALL MAKE SUCH ADDITIONAL INVESTIGATION AS THEY MAY DEEM NECESSARY FOR THE PLANNING AND PROPER EXECUTION OF THE WORK, INCLUDING CONTACTING AND COORDINATING WITH UTILITY COMPANIES FOR MOVES, SUPPORT, TEMPORARY SERVICE, ETC.

**GENERAL**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS AND EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS AND PROPERTY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR EROSION & SEDIMENT CONTROL THROUGH THE LIFE OF THE PROJECT. THIS MAY INVOLVE THE USE OF SILT FENCE, DIKES, SEDIMENT PITS, MULCHES, FILTER FABRICS, AND OTHER DEVICES AND METHODS. PARTICULAR CARE SHALL BE TAKEN TO AVOID EROSION AND SEDIMENTATION ON EXISTING PAVED AND GRAVELED AREAS.

**PROJECT CONTROL AND STATIONING**  
THE PROJECT CONTROL INCLUDING REFERENCE POINTS, BENCHMARKS, STATIONING, ALIGNMENTS AND COORDINATES PROVIDED IN THIS PLAN ARE PER SURVEY PERFORMED BY THE KLEINGERS GROUP.

**PAY ITEMS**  
THE CONTRACTOR'S BID SHALL INCLUDE ALL ITEMS NECESSARY TO MAKE A COMPLETE PROJECT AS SHOWN ON THESE PLANS. ALL ASSOCIATED AND MISCELLANEOUS COSTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS LISTED IN THE GENERAL SUMMARY.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIED METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR, AND THE COST OF SAME SHALL BE INCLUDED IN THE BID PRICE FOR RELATED ITEMS.

**ITEM 608 - WALKWAY, MISC.: UNIT PAVER**  
SEE DETAILS 1 & 5 / SHEET 12

THIS WORK SHALL CONSIST OF THE CONSTRUCTION OF CLAY UNIT PAVER PATIO AREAS, CLAY UNIT PAVERS IN THE TREE LAWN, AND AT THE CORNER OF THE STREET INTERSECTIONS AS SHOWN ON THE PLANS AND PER THE DETAILS SHOWN IN THESE PLANS. THE WORK SHALL INCLUDE ALL EXCAVATION, EMBANKMENT, SUBGRADE PREPARATION, AGGREGATE BASE, CONCRETE BASE, SETTING BED, JOINT SAND, PAVERS AND OTHER LABOR, EQUIPMENT, MATERIALS AND APPURTENANCES REQUIRED TO CONSTRUCT PAVER PLAZAS AS SHOWN ON THE PLANS.

PAVERS SHALL BE NOMINALLY 4" X 8" X 2 1/4" CLAY BRICK, SOLID (UNCORED), COMPLYING WITH REQUIREMENTS OF ASTM C902. CLASS SIX, TYPE 1 STANDARD SPECIFICATIONS FOR PEDESTRIAN PAVING.

COLOR SHALL BE A BLEND TO MATCH THE CITY OF BEAVERCREEK STANDARD. THE PAVER TYPE SHALL MATCH WHITACRE GREER COLOR 30 (CLEAR RED), COLOR 32 (ANTIQUE) AND COLOR 43 (TANGERING) OR THE COLOR RANGE OF THE 'ENGLISH EDGE FULL RANGE' MANUFACTURED BY THE PINE HALL COMPANY. CONTRACTOR TO PROVIDE SAMPLES TO THE CITY OF BEAVERCREEK FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR TO PERFORM MOCK UP OF PAVER LAYOUT TO BE APPROVED BY THE CITY OF BEAVERCREEK PRIOR TO INSTALLATION OF UNIT PAVERS.

FINAL COLOR SHALL BE SELECTED BY THE CITY OF BEAVERCREEK ENGINEER FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS. SUBMIT FULL SIZE UNITS FOR SELECTION PRIOR TO ORDERING MATERIAL.

SAND FOR SETTING BED SHALL BE SOUND, SHARP, WASHED, NATURAL SAND OR CRUSHED STONE COMPLYING WITH GRADATION REQUIREMENTS IN ASTM C 33/C 33M FOR FINE AGGREGATE.

SAND FOR JOINTS SHALL BE FINE, SHARP, WASHED, NATURAL SAND OR CRUSHED STONE WITH 100 PERCENT PASSING NO. 16 SIEVE AND NO MORE THAN 10 PERCENT PASSING NO. 200 SIEVE, MIXED WITH POLYMERS FOR PAVEMENT JOINT STABILIZATION.

DO NOT USE FROZEN MATERIALS OR BUILD ON FROZEN SUBGRADE OR SETTING BEDS. PLACE BITUMINOUS SETTING BED ONLY WHEN AMBIENT TEMPERATURE IS ABOVE 40 DEGREES F AND WHEN BASE IS DRY.

MIX PAVERS FROM SEVERAL PALLETS OR CUBES, AS THEY ARE PLACED, TO PRODUCE UNIFORM BLEND OF COLORS AND TEXTURES.

CUT UNIT PAVERS WITH MOTOR-DRIVEN MASONRY SAW EQUIPMENT TO PROVIDE PATTERN INDICATED AND TO FIT ADJOINING WORK NEATLY. USE FULL UNITS WITHOUT CUTTING WHERE POSSIBLE. JOINT PATTERN SHALL BE AS INDICATED ON THE DRAWINGS.

DO NOT EXCEED 1/16-INCH UNIT-TO-UNIT OFFSET FROM FLUSH (LIPPAGE) NOR 1/8 INCH IN 24 INCHES AND 1/4 INCH IN 10 FEET FROM LEVEL, OR INDICATED SLOPE, FOR FINISHED SURFACE OF PAVING.

INSTALL ALL EDGE RESTRAINTS BEFORE PLACING UNIT PAVERS.

PLACE LEVELING COURSE AND SCREED TO A THICKNESS OF 1 TO 1-1/2 INCHES, TAKING CARE THAT MOISTURE CONTENT REMAINS CONSTANT AND DENSITY IS LOOSE AND UNIFORM UNTIL PAVERS ARE SET AND COMPACTED.

TREAT LEVELING COURSE WITH HERBICIDE TO INHIBIT GROWTH OF GRASS AND WEEDS.

PLACE PAVERS CAREFULLY BY HAND IN STRAIGHT COURSES, MAINTAINING ACCURATE ALIGNMENT AND UNIFORM TOP SURFACE. PROTECT NEWLY LAID PAVERS WITH PLYWOOD PANELS ON WHICH WORKERS CAN STAND. IF ADDITIONAL LEVELING OF PAVING IS REQUIRED, AND BEFORE TREATING JOINTS, ROLL PAVING WITH POWER ROLLER.

PLACE UNIT PAVERS WITH HAND-TIGHT JOINTS. FILL JOINTS BY SWEEPING POLYMERIC SAND OVER PAVED SURFACE UNTIL JOINTS ARE FILLED. REMOVE EXCESS SAND AFTER JOINTS ARE FILLED.

REMOVE AND REPLACE UNIT PAVERS THAT ARE LOOSE, CHIPPED, BROKEN, STAINED, OR OTHERWISE DAMAGED OR THAT DO NOT MATCH ADJOINING UNITS. PROVIDE NEW UNITS TO MATCH ADJOINING UNITS AND INSTALL IN SAME MANNER AS ORIGINAL UNITS, WITH SAME JOINT TREATMENT AND WITH NO EVIDENCE OF REPLACEMENT.

PAYMENT SHALL BE AT THE PER SQUARE FOOT UNIT PRICE INSTALLED OF ITEM 608 - WALKWAY MISC.: UNIT PAVER, COMPLETE, WHICH SHALL INCLUDE LAYOUT, EXCAVATION, DISPOSAL OF EXCESS MATERIAL, PREPARATION OF SUBGRADE PER ODOT 608, SAND BED, EDGE RESTRAINT, AND PAVERS. THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 608 - WALKWAY MISC.: UNIT PAVER, ITEM 305 CONCRETE BASE, ITEM 304 AGGREGATE BASE, AND ITEM 204 SUBGRADE COMPACTION ARE QUANTIFIED SEPARATELY.

DESIGN AGENCY



DESIGNER

KJC

REVIEWER

YSY 09/08/23

PROJECT ID

115009

SHEET

3

TOTAL

20

**ITEM 623 CONSTRUCTION LAYOUT STAKES**  
IT IS THE CONTRACTORS RESPONSIBILITY TO LAYOUT CONSTRUCTION STAKES FOR THE PROJECT. THIS WORK CONSISTS OF FURNISHING, PLACING, AND MAINTAINING CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER EXECUTION OF THE WORK UNDER THE CONTRACT AND REMOVING ALL STAKES AT THE COMPLETION OF THE PROJECT.

**GENERAL REQUIREMENTS**  
PER JANUARY 1, 2023 ODOT CONSTRUCTION & MATERIAL SPECIFICATIONS MANUAL ALL PLANT MATERIALS, TURF GRASS, AND PLANTING OPERATIONS TO MEET OR EXCEED STANDARDS SET OUT IN ODOT ITEMS 659, 661, & 662, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE AN ONA (OHIO NURSERYMAN'S ASSOCIATION) CERTIFIED LANDSCAPE TECHNICIAN TO SUPERVISE THE PLANTING OPERATIONS.

**ITEM 659 SEEDING AND MULCHING, AS PER PLAN**  
THIS ITEM SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, MACHINERY, MATERIALS, AND PROCESSES REQUIRED FOR THE PLANTING OF SEEDED AREAS. SEEDING SHALL OCCUR TO THE PROJECT LIMITS SHOWN ON THE PLANS. ALL AREAS DISTURBED BY CONSTRUCTION, SHALL BE RESTORED, FINE GRADED, AND SEEDED. COST FOR DAMAGE RESTORATION OF EXISTING TURF AREAS DURING CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

ITEM SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF ITEM 659 SEEDING AND MULCHING UNLESS OTHERWISE DESCRIBED BELOW:

AREAS WITHIN THE PROJECT AREA THAT WILL BE GRADED AND DISTURBED ARE TO BE SEEDED WITH THE FOLLOWING SEED MIX. PROVIDE OWNER WITH CERTIFIED SEED MIX LABEL PRIOR TO APPLICATION FOR APPROVAL:

- 80-90% TURF-TYPE TALL FESCUE (3 LB. /1,000 SQ. FT.)
- 5-10% KENTUCKY BLUEGRASS (3 LB. /1,000 SQ. FT.)
- 5-10% PERENNIAL RYEGRASS (2 LB. /1,000 SQ. FT.)

AREAS WITHIN THE PROJECT AREA THAT ARE NOT DISTURBED SHALL BE INTER-SEEDED PER ITEM 659.21 WITH THE SAME MIX.

ALL DESIGNATED TURF AREAS TO BE HYDRO SEEDED WITH A WOOD FIBER MULCH AS NOTED IN ODOT ITEM 659.15

ITEM 650.03 LIME SHALL BE APPLIED PER SPECIFICATION, AND SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.04 COMMERCIAL FERTILIZER SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.05 TOPSOIL SHALL BE INCIDENTAL TO THIS ITEM. ALL AREAS TO BE SEEDED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL.

ITEM 659.17 WATER SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.20 REPAIR SEEDING AND MULCHING SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.23 PERFORMANCE: AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 3 BY 3 INCHES.

PAYMENT: THE COST OF THESE ITEMS SHALL INCLUDE ALL MATERIALS, EQUIPMENT COORDINATION AND LABOR COSTS ASSOCIATED WITH SUPPLYING AND INSTALLING SEEDING AND MULCHING AS PER PLAN.

**MOWING DURING CONSTRUCTION**  
ALL MOWING SHALL BE DONE BY THE CONTRACTOR. THE COST OF MOWING COORDINATION WITH THE CITY SHALL BE INCLUDED IN THE VARIOUS SEEDING BID ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR MOWING COORDINATION.

**ITEM 661.11 MULCH, AS PER PLAN**  
THE FOLLOWING REVISIONS TO ODOT 661 SHALL BE APPLICABLE TO THIS PROJECT 661.11 MULCH.

CHANGE THE SECOND SENTENCE IN THE SECOND PARAGRAPH TO READ, "...3-INCH LAYER OF LANDSCAPE MULCH...".

MULCH SHALL BE A FINELY SHREDDED DARK HARDWOOD MULCH. BLACK COLOR. 100% AGED SHREDDED HARDWOOD. TRIPLE GROUND.

**PERIOD OF ESTABLISHMENT**  
MAINTENANCE:  
DURING PLANTING: MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR A

PERIOD OF ONE YEAR AFTER COMPLETION OF PROJECT. PLANTS SHALL BE WATERED, MULCHED AND PRUNED, WEED GROWTH CONTROLLED, AND OTHERWISE MAINTAINED AS NEEDED DURING THE WARRANTY PERIOD. SETTLED PLANTS SHALL BE RAISED AND STRAIGHTENED. IF STAKING OR GUY WIRES ARE USED, THEY SHALL BE TIGHTENED AND REPAIRED.

**WARRANTY:**  
THE CONTRACTOR SHALL WARRANTY ALL PLANTS TO BE IN SATISFACTORY GROWING CONDITION AND TO LIVE FOR A PERIOD OF ONE YEAR FROM COMPLETION OF PROJECT. ALL PLANTS INSTALLED PRIOR TO DECEMBER 31ST SHALL BE GUARANTEED TO BREAK INTO GROWTH (NOT JUST BUD BREAK) AND 2ND SPRING. PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION WILL BE REPLACED AS MANY TIMES AS NECESSARY DURING THE ONE YEAR MAINTENANCE BOND. COMPLY WITH ODOT ITEM 661.

ADDITIONALLY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO WATER AND PERFORM ANY MAINTENANCE AS NECESSARY FOR THE CONTINUOUS VIGOR OF THE PLANTS DURING THE WARRANTY PERIOD. THE COST OF WATERING AND MAINTENANCE WILL BE AT THE SOLE COST OF THE CONTRACTOR. CONTRACTOR MUST COORDINATE WITH THE CITY AS NECESSARY FOR TRAFFIC CONTROL, AS NEEDED.

IN ORDER TO PROVIDE PLANT MATERIALS THAT MEET THE SOIL AND CLIMATE CONDITIONS OF BEAVERCREEK, OHIO, THEY MUST BE OBTAINED FROM SOUTHWEST/SOUTH CENTRAL OHIO. TREES OF THE SAME SPECIES SHALL BE PURCHASED FROM THE SAME NURSERY SO AS TO PROVIDE UNIFORMITY AMONG EACH SPECIES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN THE CONSTRUCTION SITE AFTER EACH DAY OF WORK. PRIVATE LOTS SHALL BE FREE OF ANY DEBRIS, SAFETY HAZARDS, AND/OR OBSTRUCTIONS. IF A TREE PIT IS UNPROTECTED, IT SHALL HAVE FENCE PROTECTION TO PREVENT INJURY. SIDEWALKS AND STREETS SHALL BE FREE OF ANY DEBRIS, ROCKS, LOOSE MATERIAL AND OBSTRUCTIONS AT ALL TIMES. AT THE TIME OF FINAL COMPLETION, CONTRACTOR MUST CLEAN ALL ROADS, SIDEWALKS, AND PRIVATE LOTS PER THE CITY'S DIRECTION.

**ITEM 661 PLANTING TREES, SHRUBS, AND VINES**  
GENERAL PLANTING NOTES

1. LANDSCAPE WATERING PER ODOT ITEM 662 IS CONSIDERED INCIDENTAL TO ODOT ITEM 661 AND MUST BE CONTINUED THROUGH THE ESTABLISHMENT PERIOD AS OUTLINED UNDER ODOT ITEM 661.14. THE COST FOR LANDSCAPE WATERING SHALL BE CONSIDERED INCIDENTAL TO ODOT ITEM 661 AND MUST BE CONTINUED THROUGH THE ESTABLISHMENT PERIOD AS OUTLINED UNDER ODOT ITEM 661.14.
2. CONTRACTOR MUST FOLLOW STANDARD HORTICULTURAL PRACTICES DURING THE PERIOD OF ESTABLISHMENT TO ENSURE THAT ALL THE PLANTS MAINTAIN GROWTH AND VIGOR. THE CONTRACTOR SHALL WATER, RE-MULCH, RE-STAKE AND CULTIVATE / WEED AS NECESSARY.
3. ALL LANDSCAPE BEDS TO RECEIVE A GRANULAR PRE-EMERGENT WEED PREVENTATIVE PRIOR TO MULCHING PER ODOT ITEM 661. (PREEN, TREFLAN, OR ACCEPTED EQUIVALENT)
4. ALL PLANTS ARE TO BE BALLED AND BURLAPPED (B&B) OR IN CONTAINERS AS NOTED IN PLANT SCHEDULE. NO BARE ROOTED OR CONTAINER TREES ARE PERMITTED. SIZES ARE PER OHIO NURSERY ASSOCIATION STANDARDS.
5. PLANT IN ACCORDANCE WITH PLAN NOTE ITEM 661: PLANTING TREES, SHRUBS, AND GROUND COVER AS PER PLAN AND ODOT L.A. 1.1 AND L.A. 1.2 STANDARD CONSTRUCTION DRAWINGS.
6. SIZE OF PIT VARIES WITH SIZE OF ROOT BALL.
7. SPREAD FERTILIZER EVENLY IN SAUCER PRIOR TO PLANTING PER ODOT ITEM 661.
8. ALL PLANT MATERIAL FURNISHED SHALL BE FULL, WELL BRANCHED, WELL PROPORTIONED, AND HAVE A VIGOROUS, WELL DEVELOPED ROOT SYSTEM CAPABLE OF SUSTAINING VIGOROUS GROWTH.
9. ALL TREES AND SHRUBS SHALL BE NO. 1 GRADE PLANTS WITH GROWTH AND BRANCHING HABIT TYPICAL OF THE SPECIES. NO PARK GRADE (NO. 2 OR 3 GRADE) PLANTS WILL BE ACCEPTED.
10. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED.
11. IF SUBSTITUTIONS ARE REQUIRED, ALL SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
12. OBSTRUCTIONS: NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF UNEXPECTED ROCKS OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED DURING EXCAVATION.
13. THE COST FOR ALL FERTILIZER, HERBICIDE, WATERING, AND PLANTS, THAT MUST OCCUR BASED ON NEW PLANTING / CONSTRUCTION SHALL BE INCIDENTAL TO ITEM 661 AND 662 LANDSCAPE PLANTINGS AND WATERING.
14. THE CONTRACTOR SHALL CONDUCT WATERING OPERATIONS IN COMPLIANCE WITH ALL PROJECT SPECIFICATIONS AND SHALL PROTECT AGAINST WETTING OF THE PAVEMENT SURFACE.

15. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REP. IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSION GIVEN ON THE PLANS AND ACTUAL DIMENSIONS IN THE FIELD.
16. REMOVE ALL TWINE, ROPE, BURLAP, AND WIRE FROM TOP HALF OF ROOTBALL.
17. NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF SUBSOIL CONDITIONS EVIDENCE UNEXPECTED WATER SEEPAGE OR RETENTION IN TREE OR SHRUB PIT.
18. ITEM 661.10 B PLANTING BEDS SHALL BE MODIFIED TO READ: ONE MONTH BEFORE CULTIVATION, TREAT ALL PLANTING BEDS THAT ARE TO BE DEVELOPED IN AREAS OF EXISTING TURF WITH PRE-EMERGENT AND POST-EMERGENT TYPE HERBICIDES. USE A STATE-LICENSED PESTICIDE APPLICATOR TO APPLY THE HERBICIDE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. BEFORE PLANTING, TOP DRESS ALL PLANTING BEDS WITH A MINIMUM OF 6 INCHES OF BACKFILL MIX, THEN CULTIVATE IT TO A DEPTH OF 12 INCHES USING A PLOW, DISC, OR ROTO-TILLER.
19. ALL ABOVE ITEMS ARE INCIDENTAL TO ODOT 661 ITEM AND SHALL BE CONTINUED THROUGH WARRANTY PERIOD.

PAYMENT: THE COST FOR THESE ITEMS SHALL INCLUDE ALL MATERIALS, EQUIPMENT, COORDINATION, AND LABOR COSTS ASSOCIATED WITH INSTALLING ITEM 661 TREES, SHRUBS, AND VINES AND THE NOTES AND DETAILS.

**ITEM 690 SPECIAL - BENCH**  
BACKED BENCH WITHOUT INTERMEDIATE ARMS OR DIVIDERS. SEE DETAIL 2 / SHEET 12.

MANUFACTURERS:

1. BASIS-OF-DESIGN: LANDSCAPE FORMS, INC.; MODEL: SCARBOROUGH.
2. DUMOR, INC.; MODEL: BENCH 160.
3. VICTOR STANLEY, INC.; MODEL: RBF-28.
4. OR APPROVED EQUAL

BENCHES SHALL BE COMMERCIAL GRADE MEETING THE FOLLOWING MINIMUM SPECIFICATIONS:

- DIMENSIONS:
1. DEPTH: 28".
  2. OVERALL HEIGHT: 34".
  3. ARM HEIGHT: 28".
  4. LENGTH: 48".

SEAT PATTERN: STRAP.

COLOR: BLACK POWDERCOAT.

MATERIAL:

1. SEAT PATTERN: STEEL STRAPS 1-1/2" x 0.188".
2. PANEL SUPPORTS: END FRAMES ARE 1" x 1" SOLID STEEL, JOINED BY 1-1/2" DIAMETER, 0.120" WALL THICKNESS TUBULAR STEEL. SEAT PANELS ARE PERIMETER WELDED TO THE END FRAMES.

SURFACE MOUNTING PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO MOUNT INTO CONCRETE BASE BELOW UNIT PAVERS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS FOR ITEM SPECIAL - BENCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM SPECIAL - BENCH.

**ITEM 690 SPECIAL - BACKFILL MIX**  
BACKFILL MIX SHALL BE PER TEM 661.09 EXCEPT MODIFIED TO READ:

FOR ALL PLANTINGS, USE BACKFILL MIX CONSISTING OF THE FOLLOWING:

1. PART TOPSOIL PER ITEM 659.05
2. PART SPHAGNUM PEAT MOSS
3. PART EPA RATED CLASS IV COMPOST PER ITEM 659.06

INSTALL BACKFILL MIX TO 12" DEPTH IN ALL PLANT BEDS.

DO NOT USE BACKFILL MIX THAT IS FROZEN OR MUDDY.

PAYMENT FOR BACKFILL MIX AND PLACEMENT OF BACKFILL MIX SHALL BE PAID FOR IN ITEM SPECIAL - BACKFILL MIX.

**PRE-CONSTRUCTION MEETING**  
FOLLOWING THE AWARD OF THE CONTRACT AND BEFORE STARTING ANY WORK, THE CONTRACTOR AND HIS SUPERINTENDENT, SHALL MEET WITH THE ENGINEER FOR A PRE-CONSTRUCTION MEETING. THE PURPOSE OF SUCH IS FOR REVIEWING THE SITE, AND ANY RESTRICTIONS AND REGULATIONS GOVERNING THE WORK.

ANY SCHEDULES, REQUESTS, PAPERS, APPROVALS, SUBMITTALS, SHOP DRAWINGS, CHANGES, ETC. AS CALLED FOR IN THE CONTRACT DOCUMENTS SHALL BE DONE AT THIS TIME UNLESS OTHERWISE DIRECTED.

**PERMITS, FEES AND NOTICES**

THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE EXECUTION OF THE WORK BY LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

**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 ENGINEER.

**EXAMINATION OF THE SITE**

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIFICATIONS. THE SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

**SECURITY AND PROTECTION PROVISIONS**

THE TYPES OF TEMPORARY SECURITY AND PROTECTION PROVISIONS REQUIRED INCLUDE, BUT NOT BY WAY OF LIMITATION, BARRICADES, WARNING SIGNS/LIGHTS, SITE ENCLOSURE FENCE, ETC. AND SIMILAR PROVISIONS INTENDED TO MINIMIZE PROPERTY LOSSES, PERSONAL INJURIES AND CLAIMS FOR DAMAGE TO THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE ANY PROTECTION SERVICES AND SYSTEMS IN COORDINATION WITH ACTIVITIES AND IN A MANNER TO ACHIEVE 24-HOUR, 7-DAY PER-WEEK EFFECTIVENESS.

TRENCHES THAT ARE OPEN SHALL NOT REMAIN UNPROTECTED AT ANY TIME. DURING NON-WORKING HOURS, TRENCHES SHALL BE CLOSED AND ANY EQUIPMENT ON THE SITE SHALL BE ADEQUATELY FENCED.





ITEM 614 - MAINTAINING TRAFFIC  
THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF  
ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD); AND THE APPLICABLE  
STANDARD DRAWINGS FOR MAINTENANCE OF TRAFFIC (MT-SERIES); AND AS OUTLINED HEREIN.

A MINIMUM OF ONE (1) LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF  
THE EXISTING PAVEMENT

UNLESS OTHERWISE APPROVED BY THE ENGINEER, WORK SHALL BE LIMITED TO ONE SIDE/SECTION AT A TIME.  
UNLESS DETAILED HEREIN OR OTHERWISE APPROVED BY THE ENGINEER, ALL NORMAL TRAFFIC MOVEMENTS  
FOR CROSS STREET INTERSECTIONS ARE TO BE MAINTAINED AT ALL TIMES. A MINIMUM LANE WIDTH OF TEN  
(10) FEET SHALL BE MAINTAINED AT ALL TIMES. AS PER THE OMUTCD, OPPOSING TRAFFIC SHALL BE  
SEPARATED BY A RETRO-REFLECTIVE CENTERLINE OR APPROPRIATELY SPACED DRUMS AT ALL TIMES.

ACCESS TO ALL ABUTTING BUSINESS AND RESIDENCES, AND OPERATION OF ALL TRAFFIC CONTROL AND  
TRAFFIC CONTROL DEVICES REQUIRED BY THE OMUTCD SHALL BE PROVIDED BY THE CONTRACTOR WHETHER  
INSIDE OR OUTSIDE THESE WORK LIMITS.

THE CONTRACTOR SHALL SUBMIT TO THE CITY OF BEAVERCREEK A DESCRIPTION OF THE PROPOSED  
SEQUENCE OF CONSTRUCTION OPERATIONS, LANE CLOSURES, AND DRIVE ACCESS FOR APPROVAL PRIOR TO  
COMMENCING WORK.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING 48 HOURS IN ADVANCE OF ANY STREET CLOSURE OR LANE  
CLOSURE:

GREENE COUNTY SHERIFF'S DEPARTMENT, PHONE 937-562-4800  
THE CITY OF BEAVERCREEK POLICE DEPARTMENT, PHONE 937-426-1225

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EQUIPMENT AND INFRASTRUCTURE FOR THE  
DURATION OF THE PROJECT.

TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES AND SHALL BE  
CONTROLLED WITH FLAGGERS AND TRAFFIC CONTROL DEVICES AS REQUIRED AND SHALL BE SUBJECT TO THE  
APPROVAL OF THE ENGINEER. UNLESS OTHERWISE SPECIFIED, A SEPARATE LEFT TURN STORAGE LANE WITH  
A MINIMUM OF FIFTY (50) FEET IN LENGTH IS TO BE PROVIDED AT ALL TIMES AT APPROPRIATE INTERSECTIONS  
BY MEANS OF CHANNELIZING DEVICES.

THE NORMAL OPERATION OF ALL TRAFFIC SIGNALS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE  
APPROVED IN ADVANCE BY THE ENGINEER. CARE SHALL BE EXERCISED NOT TO PERFORM ANY WORK WHICH  
MIGHT AFFECT THE OPERATION OF TRAFFIC SIGNAL DETECTORS OR UNDERGROUND WIRING UNTIL  
ARRANGEMENTS HAVE BEEN MADE WITH THE CITY OF BEAVERCREEK ENGINEERING DEPARTMENT AT  
937-427-5513.

SPECIFIC COORDINATION WILL BE NECESSARY WITH WRIGHT STATE UNIVERSITY AND THE NUTTER CENTER.  
THE CONTRACTOR SHALL COORDINATE TRAFFIC FLOW AND THE BEST DIRECTION IN WHICH  
PATRONS/COMMUTERS SHOULD BE ADVISED TO APPROACH THE UNIVERSITY OR EVENT CENTER.

NO WORK SHALL BE PERFORMED AND ALL AVAILABLE LANES AND TURNING MOVEMENTS SHALL BE OPEN TO  
TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

NEW YEAR'S (OBSERVED)	LABOR DAY
TOTAL SOLAR ECLIPSE (4/8/24)	GENERAL/REGULAR ELECTION DAY (NOV)
MEMORIAL DAY	THANKSGIVING
FOURTH OF JULY (OBSERVED)	CHRISTMAS (OBSERVED)

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 EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)	12:00N FRIDAY THROUGH 6:00AM WEDNESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN/REG. ELECTION)	6:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	12:00N WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

ADDITIONALLY, ALL AVAILABLE LANES AND TURNING MOVEMENTS WITHIN THE PROJECT AREA ARE TO BE OPEN  
TO TRAFFIC A MINIMUM OF TWO (2) HOURS BEFORE AND AFTER A SCHEDULED EVENT AT THE NUTTER CENTER.  
THE CONTRACTOR SHALL CONTACT THE NUTTER CENTER AT (937) 775-3498 TO OBTAIN THE EVENT SCHEDULE  
INFORMATION.

REFERENCE OTHER CONTRACT DOCUMENTS (SPECIAL CONDITIONS) FOR ADDITIONAL SPECIAL EVENTS  
AFFECTED BY THIS PROJECT.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE  
ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE  
RESTRICTIONS ARE VIOLATED.

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 IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE  
TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF  
MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

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 PLAN.

EQUIPMENT AND MATERIAL STORAGE  
IN ORDER TO PROVIDE FOR THE SAFETY OF THE CONTRACTOR AND THE TRAVELING PUBLIC, THE  
CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING:

- CONSTRUCTION EQUIPMENT, MATERIALS, AND VEHICLES IN USE DURING WORKING HOURS SHALL NOT  
BE PARKED OR STORED ANY CLOSER THAN TEN (10) FEET TO THE EDGE OF THE LOCAL TRAFFIC ACCESS  
ROUTE, UNLESS BEHIND DRUMS OR TEMPORARY CONCRETE BARRIER.
- PRIVATE VEHICLES SHALL NOT BE PARKED WITHIN THE EXISTING RIGHT OF WAY LIMITS OF THIS  
PROJECT EXCEPT IN AREAS DESIGNATED BY THE ENGINEER.
- CONSTRUCTION EQUIPMENT, MATERIALS, AND VEHICLES SHALL NOT BE STORED WITHIN TWENTY-FIVE  
(25) FEET OF THE TRAVELED EDGE OF PAVEMENT DURING NON-WORKING HOURS UNLESS APPROPRIATE  
PRECAUTIONARY MEASURES HAVE BEEN TAKEN AND PRIOR APPROVAL HAS BEEN GIVEN BY THE  
ENGINEER.

MAINTAINING TRANSIT SERVICE  
IF THE CONTRACTOR NEEDS TO CLOSE DOWN OR INTERRUPT SERVICE TO AN EXISTING BUS STOP ALONG  
COLONEL GLENN HIGHWAY THE CONTRACTOR MUST NOTIFY, A MINIMUM OF THIRTY (30) DAYS BEFORE  
ANTICIPATED CLOSURE, NOTIFY JOHN HOFF AT GREATER DAYTON RTA (937-425-8355), JEFF MOORMAN, CITY  
OF BEAVERCREEK, CITY ENGINEER (937-427-5513), AND LEE HARRIS, CITY OF FAIRBORN, CITY ENGINEER  
(937-754-3055) SO THAT TEMPORARY BUS STOPS CAN BE LOCATED OUTSIDE THE WORK AREA AS NEEDED.

PEDESTRIAN ACCESS  
PEDESTRIAN TRAFFIC SHALL BE MAINTAINED. EXISTING SIDEWALKS ON THE NORTH SIDE OF COLONEL GLENN  
HIGHWAY SHALL REMAIN OPEN TO ALL PEDESTRIANS FOR THE ENTIRETY OF THE PROJECT. FLAGGERS MAY BE  
USED TO MAINTAIN PEDESTRIAN ACCESS. IF A CROSSWALK IS TO BE CLOSED, THEN PEDESTRIAN TRAFFIC  
SHALL BE DETOURED AS SHOWN ON ODOT S.C.D. MT-110.10.

CROSSWALKS SHALL BE CLOSED ONLY WHEN EXCAVATION REQUIRES CLOSURE OR WHILE THE CROSSWALK  
IS BEING REPLACED. WHEN A MARKED CROSSWALK IS CLOSED THE CONTRACTOR SHALL INSTALL A  
SUFFICIENT NUMBER OF BARRICADES TO BLOCK THE CROSSWALK AT EACH END AS NECESSARY.

TO MINIMIZE THE OVERALL IMPACT TO PEDESTRIANS AT INTERSECTIONS, FULL CORNER ACCESS  
RESTRICTIONS SHOULD BE LIMITED TO ONLY ONE CORNER DURING ANY TIME PERIOD. PEDESTRIAN  
RESTRICTIONS SHOULD BE CLEARLY DELINEATED AS SHOWN IN MT-110.10. PEDESTRIAN SIGNAL HEADS WHICH  
ARE ASSOCIATED WITH CLOSED OR RE-ROUTED CROSSINGS SHALL BE COVERED PER CMS 632.25.

COST FOR THE ABOVE DESCRIBED WORK SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM BID FOR ITEM  
614, MAINTENANCE OF TRAFFIC.

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  
CITY OF BEAVERCREEK, JEFF MOORMAN (937-427-5513). 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 TIME TABLE

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

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

SHEET NUM.								PART.	ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	7	8	10	11	15	16		01/TOTAL	(X)		EXT	TOTAL			
ROADWAY															
LS								LS		201	11000	LS		CLEARING AND GRUBBING	
	19							19		202	23000	19	SY	PAVEMENT REMOVED	
	706	825						1,531		202	30000	1,531	SF	WALK REMOVED	
	31							31		202	32000	31	FT	CURB REMOVED	
	50	26						76		202	32500	76	FT	CURB AND GUTTER REMOVED	
	230	71						301		204	10000	301	SY	SUBGRADE COMPACTION	
500								1,763		608	10000	1,763	SF	4" CONCRETE WALK	
	438	825						410		608	52000	410	SF	CURB RAMP	
	410							2,678		608	98000	2,678	SF	WALKWAY, MISC.:UNIT PAVER	3
	2,049	629													
	2							2		SPECIAL	69021000	LS		BENCH	4
EROSION CONTROL															
			33	55				88		659	10001	88	SY	SEEDING AND MULCHING, AS PER PLAN	4
								5,000		832	30000	5,000	EACH	EROSION CONTROL	
PAVEMENT															
	19							19		253	01000	19	SY	PAVEMENT REPAIR	
	32	10						42		304	20000	42	CY	AGGREGATE BASE	
	230	71						301		305	10010	301	SY	6" CONCRETE BASE, CLASS QC 1P	
150		26						176		609	12000	176	FT	COMBINATION CURB AND GUTTER, TYPE 2	
	5							5		609	26000	5	FT	CURB, TYPE 6	
TRAFFIC CONTROL															
		26						26		630	03100	26	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
		10						10		630	80100	10	SF	SIGN, FLAT SHEET	
		2						2		630	89810	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	
LANDSCAPING															
			8	2				10		661	00501	10	CY	MULCH, AS PER PLAN	4
			6					6		661	14001	6	EACH	PERENNIALS, AS PER PLAN (PEROVSKIA ATRIPLICIFOLIA 'BLUE JEAN BABY'), AS PER PLAN	13
			21					21		661	14001	21	EACH	PERENNIALS, AS PER PLAN (CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'), AS PER PLAN	13
			12					12		661	14001	12	EACH	PERENNIALS, AS PER PLAN (RUDBECKIA FULGIDA 'GOLDSTURM'), AS PER PLAN	13
				4				4		661	40100	4	EACH	DECIDUOUS TREE, 2-1/2" CALIPERDECIDUOUS TREE (CRATAEGUS CRUS-GALLI INERMIS 'CRUSADER'), 2.5" CALIPER, AS PER PLAN	13
				32				32		SPECIAL	69098700	32	CY	BACKFILL MIX	4
INCIDENTALS															
								LS		614	11000	LS		MAINTAINING TRAFFIC	
								LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
								LS		624	10000	LS		MOBILIZATION	
LIGHTING															
					12	12		24		625	00450	24	EACH	CONNECTION, FUSED PULL APART	
					6	6		12		625	00460	12	EACH	CONNECTION, UNFUSED PULL APART	14
					6	6		12		625	02803	12	EACH	TRANSFORMER BASE, MISC.: ALUMINUM TRANSFORMER BASE	14
					6	6		12		625	10500	12	EACH	LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM	
						6		6		625	14000	6	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
					6			6		625	14001	6	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN	14
					3,633	4,221		7,854		625	23000	7,854	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
					738	738		1,476		625	23400	1,476	FT	NO. 10 AWG POLE AND BRACKET CABLE	
					308	707		1,015		625	25408	1,015	FT	CONDUIT, 2", 725.051	
					732	412		1,144		625	25908	1,144	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"	
					6	6		12		625	26253	12	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 240V, 18000-19000 LUMENS	14
					308	707		1,015		625	29002	1,015	FT	TRENCH, 24" DEEP	
					11	7		18		625	30510	18	EACH	PULL BOX, 725.06, SIZE 4	
					6	6		12		625	32000	12	EACH	GROUND ROD	
					308	707		1,015		625	36010	1,015	FT	UNDERGROUND WARNING/MARKING TAPE	
LIGHTING ALTERNATES															
					6	6		12	X	625	26253	12	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 240V, 18000-19000 LUMENS (SIGNIFY LUMEC) - ALTERNATE 1	14
					6	6		12	X	625	10500	12	EACH	LIGHT POLE, MISC.:LIGHT POLE WITH BRACKET ARM (MILLERBERND) - ALTERNATE 1	14

GENERAL SUMMARY

DESIGN AGENCY



KLEINGERS GROUP

DESIGNER

KJC

REVIEWER

YSY 09/08/23

PROJECT ID

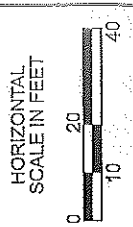
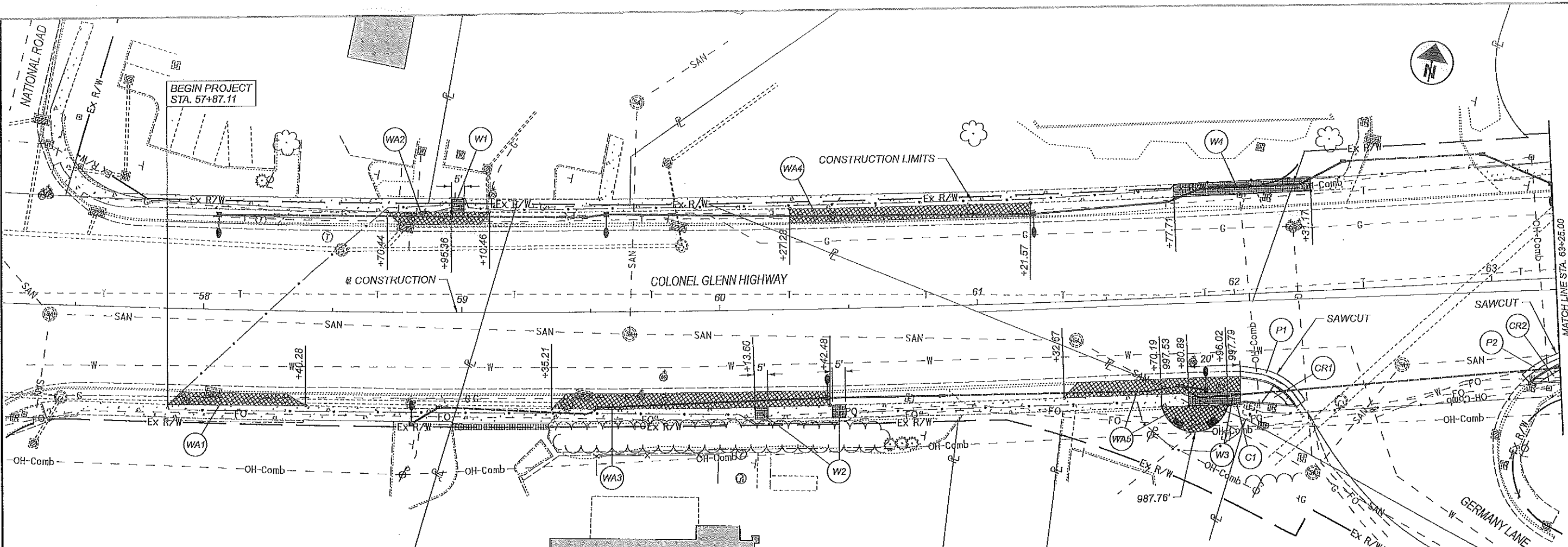
115009

SHEET

6

TOTAL

20



LAYOUT PLAN  
STA. 57+87.11 TO STA. 63+25

REF NO.	SHEET NO.	STATION TO STATION					202	202	202	202	204	253	304	305	608	608	608	609	SPECIAL	
							PAVEMENT REMOVED	WALK REMOVED	CURB REMOVED	CURB AND GUTTER REMOVED	SUBGRADE COMPACTION	PAVEMENT REPAIR	AGGREGATE BASE	6" CONCRETE BASE, CLASS QC 1P	4" CONCRETE WALK	CURB RAMP	WALKWAY, MISC.:UNIT PAVER	CURB, TYPE 6	BENCH	
							SY	SF	FT	FT	SY	SY	CY	SY	SF	SF	SF	FT	LS	
WA1	7	57+85.11	RT	TO	58+40.28	RT						25		4	25			220		
WA2	7	58+70.44	LT	TO	59+10.46	LT						20		3	20			172		
WA3	7	59+35.21	RT	TO	60+42.48	RT						68		9	68			611		
WA4	7	60+27.28	LT	TO	61+21.57	LT						53		7	53			470		
WA5	7	61+32.67	RT	TO	62+00.89	RT			26			64		9	64			576		2
W1	7	58+95.36	LT	TO	59+00.36	LT			25								25			
W2	7	60+13.60	RT	TO	60+47.48	RT			50								50			
W3	7	61+80.89	RT	TO	62+00.89	RT			97								97			
W4	7	61+77.71	LT	TO	62+31.17	LT			266								266			
C1	7	61+96.02	RT	TO	62+00.89	RT			5										5	
P1	7	62+00.89	RT	TO	62+25.64	RT	7				7									
P2	7-8	63+10.32	RT	TO	63+62.26	RT	12				12									
CR1	7	62+00.89	RT	TO	62+23.98	RT			138		25						215			
CR2	7-8	63+11.54	RT	TO	63+36.27	RT			130		25						195			
TOTALS CARRIED TO GENERAL SUMMARY							19	706	31	50	230	19	32	230	438	410	2049	5	2	

- Ex R/W- EXISTING RIGHT-OF-WAY
- CONSTRUCTION LIMITS
- ITEM 608 - 4" CONCRETE WALK
- ITEM 608 - WALKWAY MISC., UNIT PAVER SEE DETAIL 1 / SHEET 12
- EX. WALK TO REMAIN
- PROPOSED LIGHT POLE, SEE LIGHTING PLANS
- PROPOSED LIGHTING DUCTBANK

NOTE: STATIONS AND DIMENSIONS FOR WALK REPLACEMENT ARE APPROXIMATE. REPLACE ALL 4" CONCRETE WALK TO THE NEAREST JOINT.

DESIGN AGENCY  
**THE KLEINGERS GROUP**

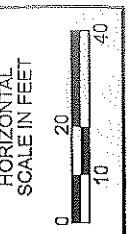
DESIGNER  
KJC

REVIEWER  
YSY 09/08/23

PROJECT ID  
115009

SHEET  
7


TOTAL  
20





LAYOUT PLAN  
STA. 63+25 TO STA. 69+13.10


•Ex R/W- EXISTING RIGHT-OF-WAY


— • — CONSTRUCTION LIMITS

 ITEM 608 - 4" CONCRETE WALK

 ITEM 608 - WALKWAY MISC.; UNIT PAVER  
SEE DETAIL 1 / SHEET 12

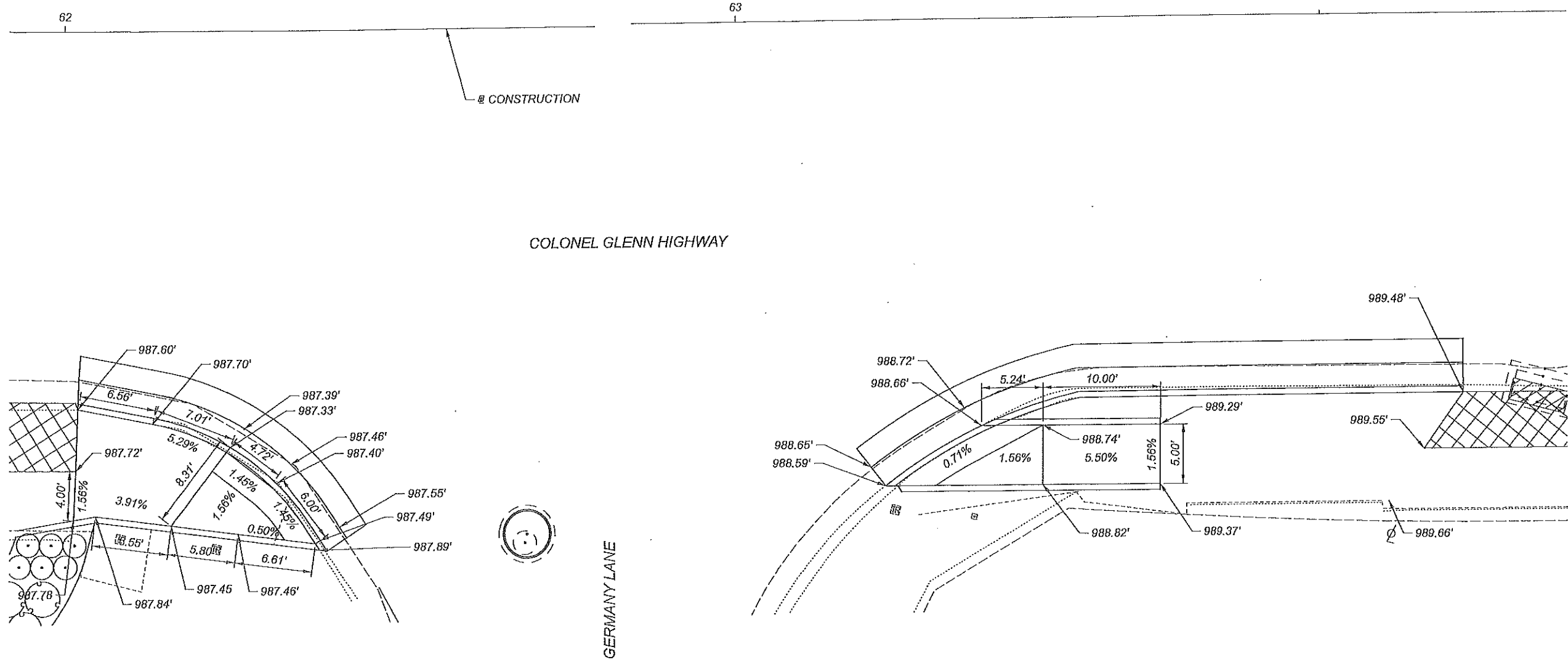
 EX. WALK TO REMAIN

 PROPOSED LIGHT POLE, SEE LIGHTING PLANS

 PROPOSED LIGHTING DUCTBANK

NOTE: STATIONS AND DIMENSIONS FOR WALK REPLACEMENT ARE APPROXIMATE. REPLACE ALL 4" CONCRETE WALK TO THE NEAREST JOINT.

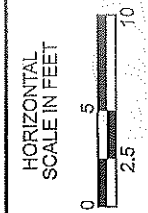


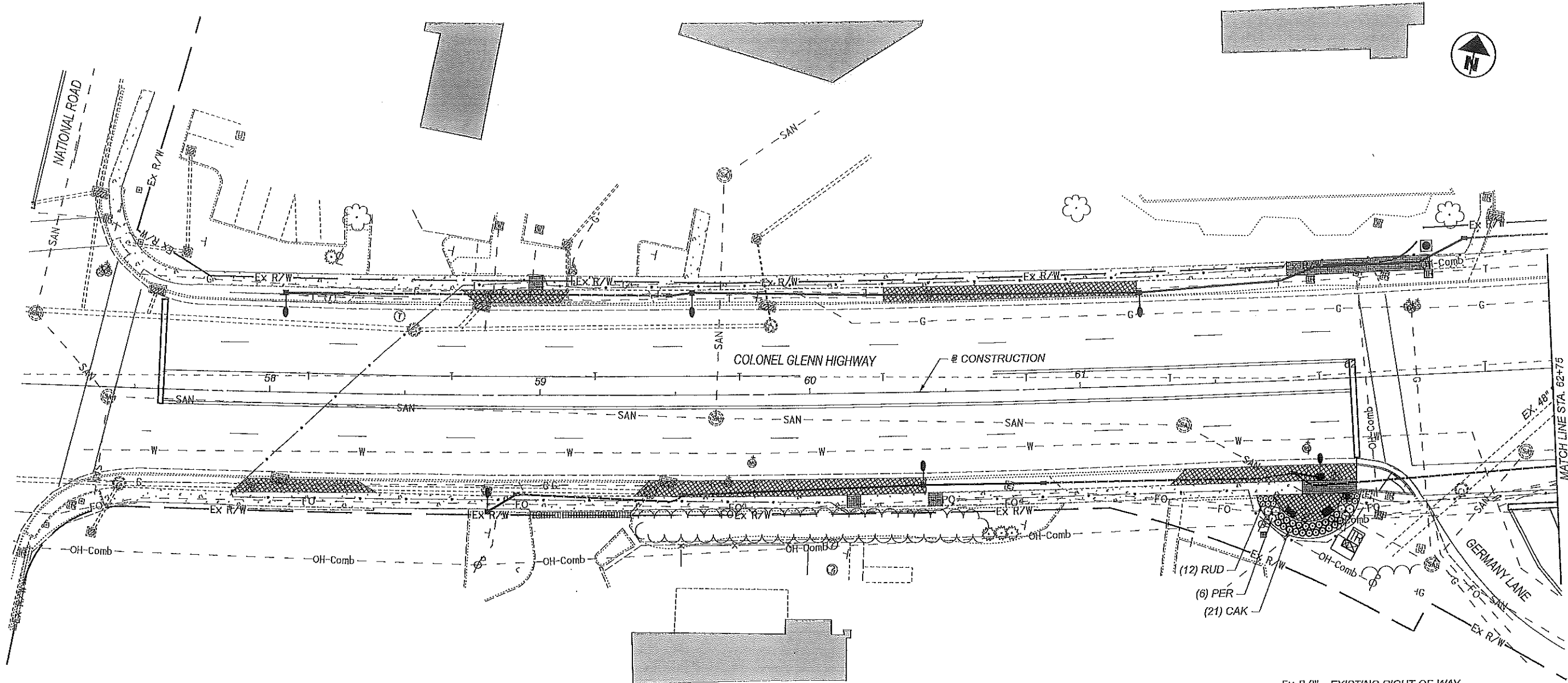


GRE CR 1 1.07 COL. GLENN HWY.  
CURB RAMP DETAILS



DESIGNER	KJC
REVIEWER	YSY
DATE	09/08/23
PROJECT ID	115009
SHEET	9
TOTAL	20





- Ex R/W- EXISTING RIGHT-OF-WAY
- R/W- PROPOSED RIGHT-OF-WAY
- - - CONSTRUCTION LIMITS
- DECIDUOUS TREE  
SEE DETAILS 3-4 / SHEET 13
- SHRUBS & PERENNIALS,  
SEE DETAILS 2 & 5, SHEET 13
- ITEM 608 - 4" CONCRETE WALK
- ITEM 608 - WALKWAY MISC., UNIT PAVER  
SEE DETAIL 1 / SHEET 12
- EX. WALK TO REMAIN
- PROPOSED LIGHT POLE, SEE LIGHTING PLANS
- PROPOSED LIGHTING DUCTBANK

KEY	ITEM	UNIT	DESCRIPTION	SIZE	QTY.	COMMON NAME	SPACING
	659E10001	SY	SEEDING AND MULCHING, AS PER PLAN		33	SEEDING AND MULCHING	
	661E00501	CY	MULCH, AS PER PLAN		8	MULCH	
PER	661E14001	EACH	PERENNIALS (PEROVSKIA ATRIPLICIFOLIA 'BLUE JEAN BABY'), AS PER PLAN	#1 CONT.	6	BLUE JEAN BABY RUSSIAN SAGE	36" O.C.
CAK	661E14001	EACH	PERENNIALS (CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'), AS PER PLAN	#2 CONT.	21	KARL FOERSTER FEATHER REED GRASS	30" O.C.
RUD	661E14001	EACH	PERENNIALS (RUDBECKIA FULGIDA 'GOLDSTURM'), AS PER PLAN	#1 CONT.	12	BLACK EYED SUSAN	24" O.C.
CC	661E40100	EACH	DECIDUOUS TREE (CRATAEGUS CRUS-GALLI INERMIS 'CRUSADER'), 2.5" CALIPER, AS PER PLAN	2.5" CAL	-	CRUSADER HAWTHORN	AS SHOWN
	690E98700	CY	BACKFILL MIX		32		

HORIZONTAL  
SCALE IN FEET  
0 10 20 40

LANDSCAPE PLAN  
STA. 57+87.11 TO STA. 62+75

DESIGN AGENCY  
  
KLEINGERS GROUP

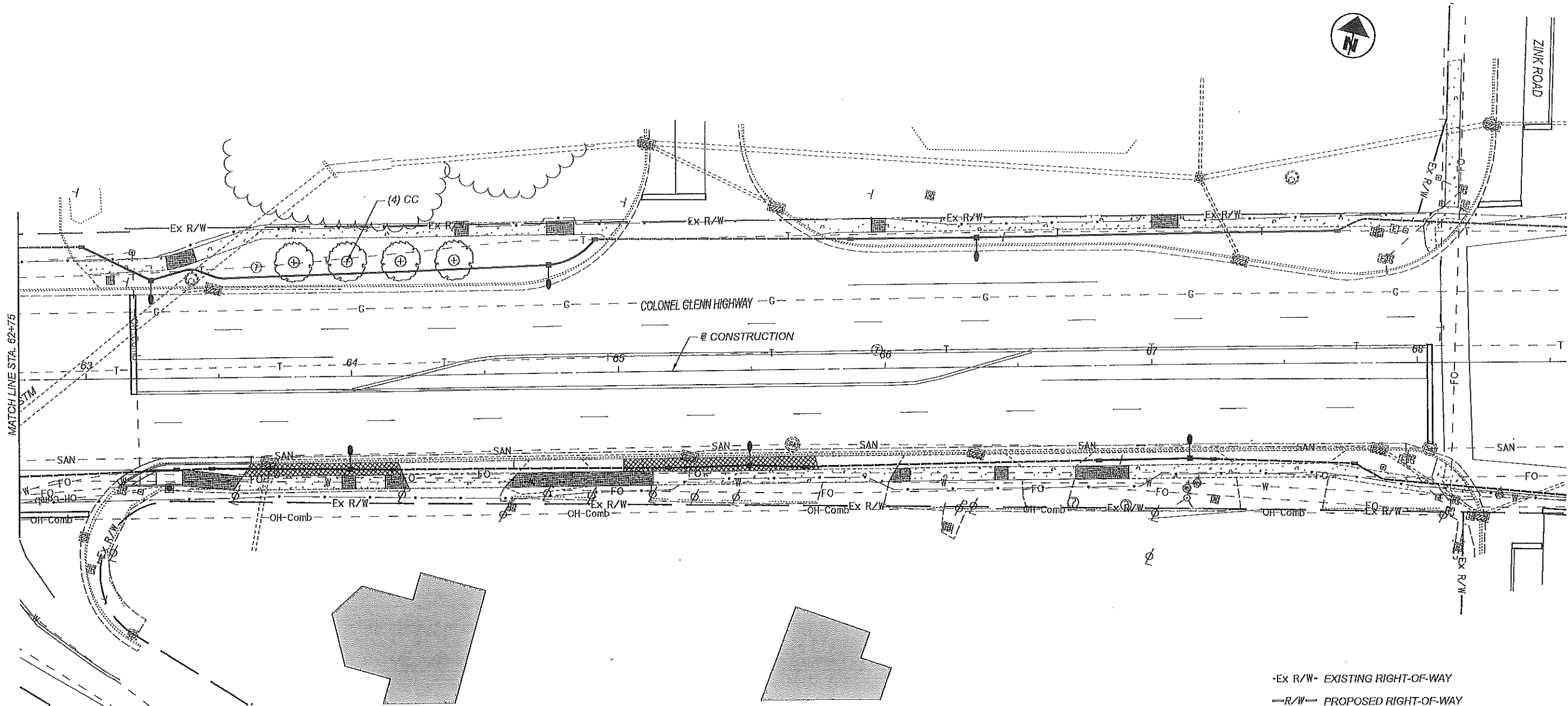
DESIGNER  
KJC

REVIEWER  
YSY 09/08/23

PROJECT ID  
115009

SHEET  
10

TOTAL  
20



KEY	ITEM	UNIT	DESCRIPTION	SIZE	QTY.	COMMON NAME	SPACING
	659E10001	SY	SEEDING AND MULCHING, AS PER PLAN		55	SEEDING AND MULCHING	
	661E00501	CY	MULCH, AS PER PLAN		2	MULCH	
PER	661E14001	EACH	PERENNIALS (PEROVSKIA ATRIPLICIFOLIA 'BLUE JEAN BABY'), AS PER PLAN	#1 CONT.	-	BLUE JEAN BABY RUSSIAN SAGE	36" O.C.
CAK	661E14001	EACH	PERENNIALS (CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'), AS PER PLAN	#2 CONT.	-	KARL FOERSTER FEATHER REED GRASS	30" O.C.
RUD	661E14001	EACH	PERENNIALS (RUDBECKIA FULGIDA 'GOLDSTURM'), AS PER PLAN	#1 CONT.	-	BLACK EYED SUSAN	24" O.C.
CC	661E40100	EACH	DECIDUOUS TREE (CRATAEGUS CRUS-GALLI INERMIS 'CRUSADER'), 2.5" CALIPER, AS PER PLAN	2.5" CAL	4	CRUSADER HAWTHORN	AS SHOWN
	690E98700	CY	BACKFILL MIX		-		

Ex R/W - EXISTING RIGHT-OF-WAY  
R/W - PROPOSED RIGHT-OF-WAY  
--- CONSTRUCTION LIMITS

DECIDUOUS TREE  
SEE DETAILS 3-4 / SHEET 13  
SHRUBS & PERENNIALS,  
SEE DETAILS 2 & 5, SHEET 13

ITEM 608 - 4" CONCRETE WALK  
ITEM 608 - WALKWAY MISC.; UNIT PAVER  
SEE DETAIL 1 / SHEET 12  
EX. WALK TO REMAIN

PROPOSED LIGHT POLE, SEE LIGHTING PLANS  
PROPOSED LIGHTING DUCTBANK

HORIZONTAL  
SCALE IN FEET  
0 10 20 40

LANDSCAPE PLAN  
STA. 62+75 TO STA. 68+08.35

DESIGN AGENCY

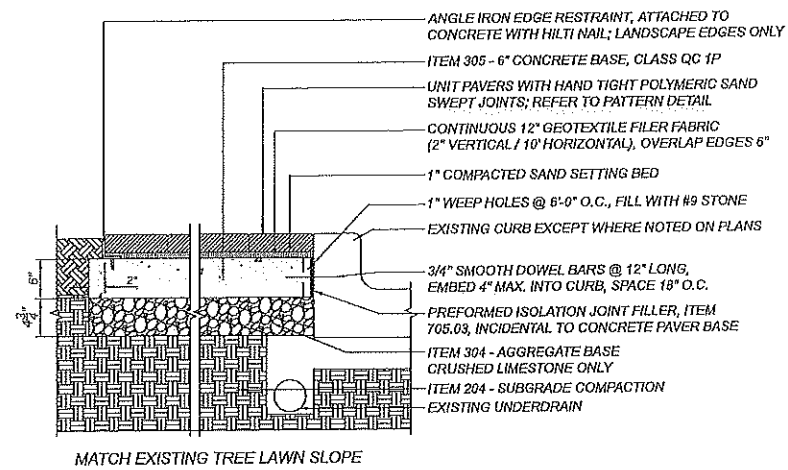


DESIGNER  
KJC

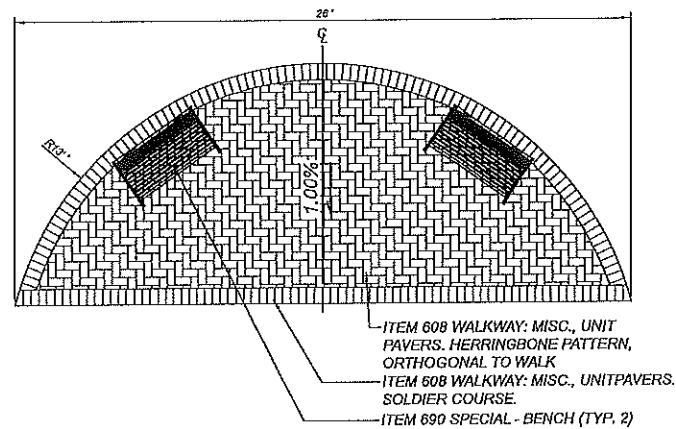
REVIEWER  
YSY 09/08/23

PROJECT ID  
115009

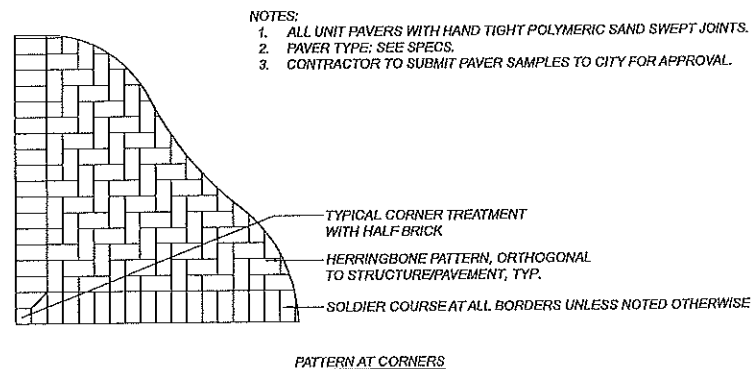
SHEET TOTAL  
11 20



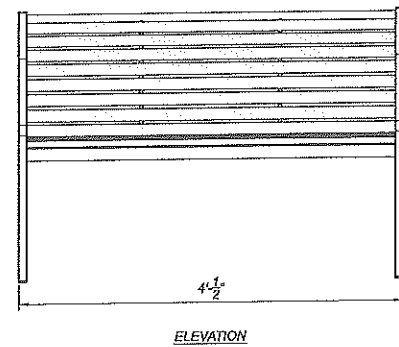
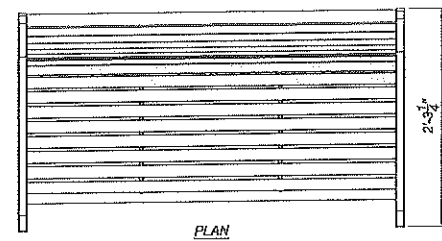
1 ITEM 608 - WALKWAY, MISC.: UNIT PAVER  
SCALE: 1" = 1'-0"



3 ITEM 690 SPECIAL - PATIO  
SCALE: 1/4" = 1'-0"

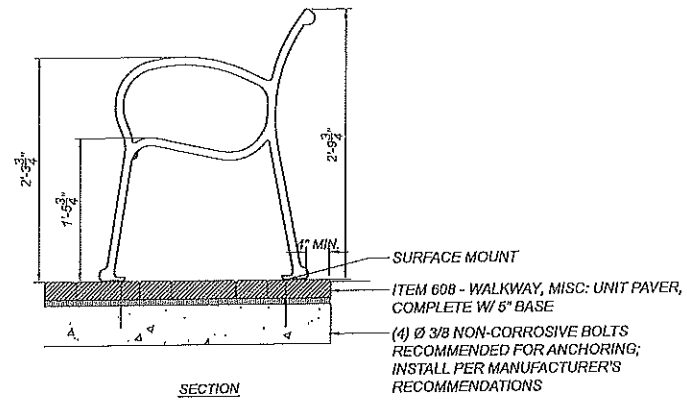


5 UNIT PAVER PATTERNS  
N.T.S.

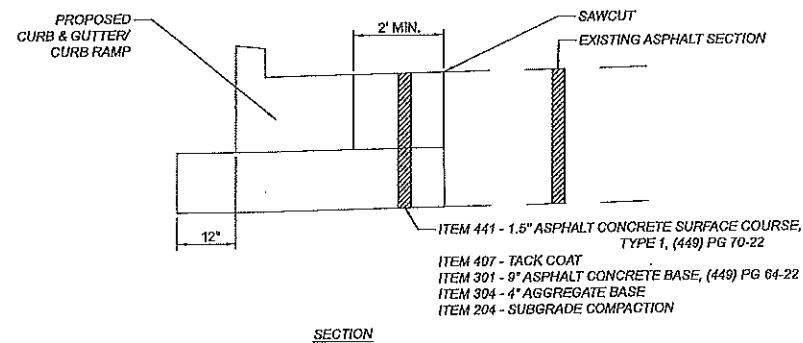


NOTES:

- SURFACE MOUNT BENCHES, PROVIDE ANCHORS OF SUFFICIENT LENGTH TO ATTACH INTO CONCRETE BASE BENEATH UNIT PAVERS.



2 ITEM 690 SPECIAL - BENCH  
N.T.S.

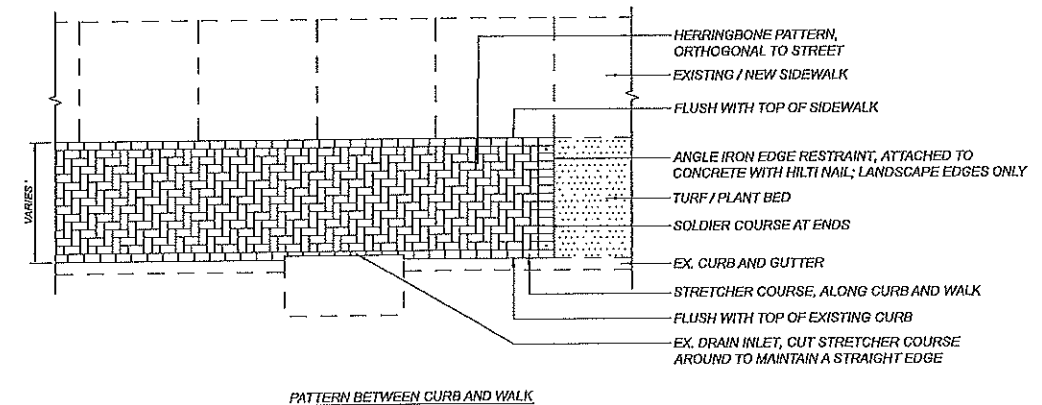
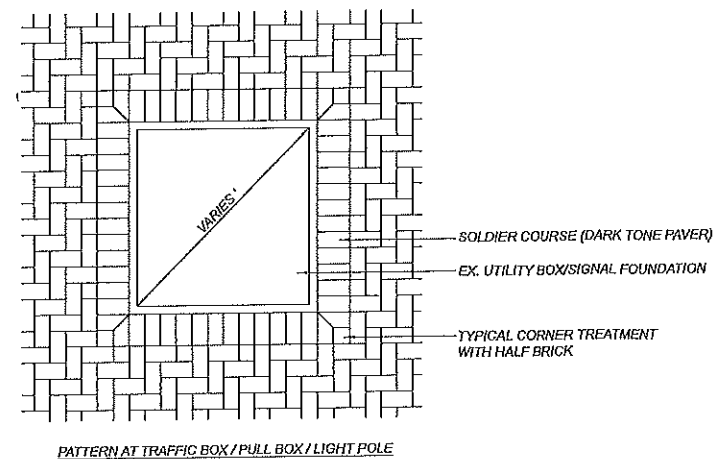


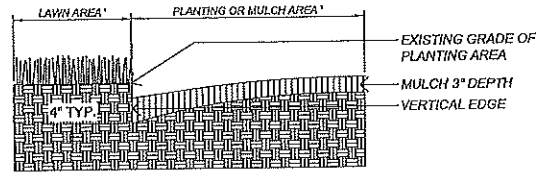
NOTES:

- 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.
- 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

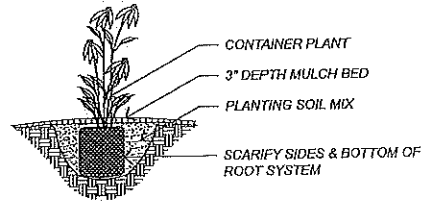
4 ITEM 253 - PAVEMENT REPAIR, AS PER PLAN  
N.T.S.





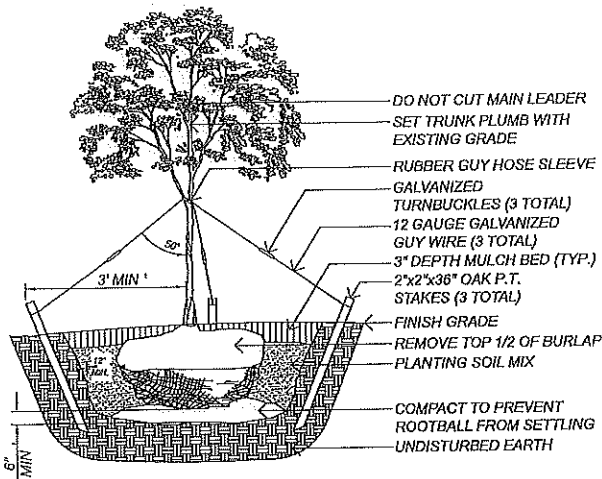
1 PLANT BED EDGING DETAIL

N.T.S.



2 PERENNIAL / ORNAMENTAL GRASS PLANTING

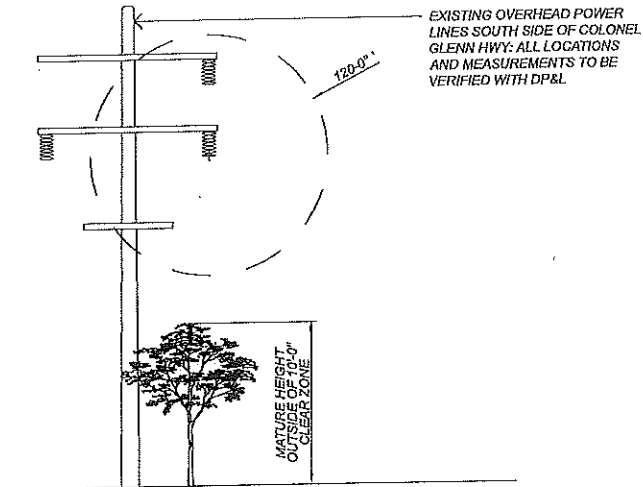
N.T.S.



- NOTES:
1. TOP OF ROOT BALL TO BE 2'-3" ABOVE ADJACENT FINISHED GRADE.
  2. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.
  3. REMOVE GUY WIRES, TURNBUCKLES, HOSE AND STAKES 1 YEAR AFTER PLANTING.
  4. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.

3 DECIDUOUS TREE PLANTING

N.T.S.

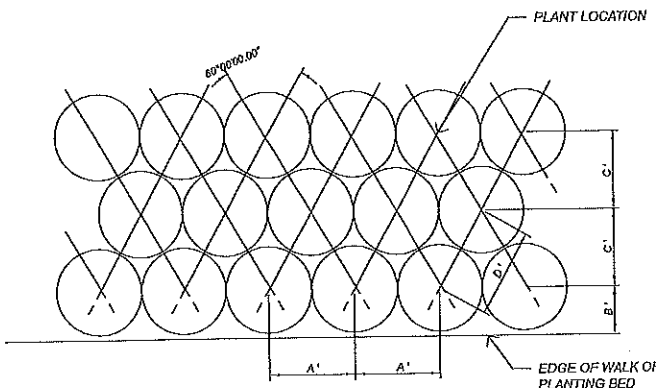


4 TREE PLANTINGS AT OVERHEAD POWER LINES

N.T.S.

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15"	18"
24"	24"	10"	20"	24"
30"	30"	15"	25"	30"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

A = SPACING  
B = SP/2  
C = SP/1.2  
D = SPACING



5 PERENNIAL SPACING

N.T.S.



ITEM 625 - LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, LIGHT POLES INSTALLED ON THIS PROJECT SHALL BE AS FOLLOWS:

THE LIGHT POLE AND BRACKET ARM SHALL PROVIDE A FINAL LUMINAIRE MOUNTING HEIGHT OF 35 FEET ABOVE THE TOP OF THE POLE BASE.

LIGHT POLE AND BRACKET ARM SHALL HAVE A BLACK FINISH 9FEDSTD 595B 17038) THAT CONFORMS TO ODOT SUPPLEMENTAL SPECIFICATION 916.

POLES SHALL BE ABLE TO ACCOMMODATE A BANNER ARM ON THE BACK SIDE OF THE POLE (OPPOSITE OF ROAD SIDE). COORDINATION WITH THE CITY OF BEAVERCREEK FOR BANNER ARM DESIGN AND SIZE.

THE ALPHA NUMERIC IDENTIFIED SHALL BE PLACED ON THE BACK SIDE OF THE HANDHOLE COVER. IDENTIFIER SHALL NOT BE PLACED ON THE EXTERNAL SURFACE OF THE POLE.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE FOR EACH "ITEM 625 - LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM (MILLERBERND)" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM (MILLERBERND) - ALTERNATE BID

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, LIGHT POLES INSTALLED ON THIS PROJECT SHALL BE AS FOLLOWS:

LIGHT POLES SHALL BE AS MANUFACTURED BY MILLERBERND AND SHALL BE THE EURO (DES) STYLE. THE LIGHT POLE AND BRACKET ARM SHALL PROVIDE A FINAL LUMINAIRE MOUNTING HEIGHT OF 35 FEET ABOVE THE TOP OF THE POLE BASE.

LIGHT POLE AND BRACKET ARM SHALL HAVE A BLACK FINISH 9FEDSTD 595B 17038) THAT CONFORMS TO ODOT SUPPLEMENTAL SPECIFICATION 916.

POLES SHALL BE ABLE TO ACCOMMODATE A BANNER ARM ON THE BACK SIDE OF THE POLE (OPPOSITE OF ROAD SIDE). COORDINATION WITH THE CITY OF BEAVERCREEK FOR BANNER ARM DESIGN AND SIZE.

THE ALPHA NUMERIC IDENTIFIED SHALL BE PLACED ON THE BACK SIDE OF THE HANDHOLE COVER. IDENTIFIER SHALL NOT BE PLACED ON THE EXTERNAL SURFACE OF THE POLE.

SEE DETAIL (A17) FOR ADDITIONAL INFORMATION.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE FOR EACH "ITEM 625 - LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM (MILLERBERND)" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, CONVENTIONAL LUMINAIRES INSTALLED ON THIS PROJECT SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE EITHER THE ROADFOCUS AS MANUFACTURED BY SIGNIFY LUMEC (CATALOG# RFM-160W48LED4K-G2-4UNV-BK), THE AUTOBAHN ATBM AS MANUFACTURED BY HOLOPHANE (CATALOG# ATBM\_P30\_MVOLT\_R3\_BK) OR THE EVOLVE ERLH AS MANUFACTURED BY GE LIGHTING (CATALOG# ERLH\_0\_16C340\_BLK). THE LED LAMP SOURCE SHALL HAVE A COLOR TEMPERATURE OF 4000K. THE ROADFOCUS FIXTURE SHALL HAVE A TYPE IV DISTRIBUTION. THE ATBM FIXTURE AND THE ERLH FIXTURE SHALL HAVE A TYPE III DISTRIBUTION. LUMINAIRES SHALL BE ORIENTED TOWARDS THE CENTERLINE OF COLONEL GLENN HIGHWAY.

LUMINAIRES SHALL INCLUDE A 7-PIN DIMMING RECEPTACLE.

THE LUMINAIRE HOUSING AND ALL VISIBLE MOUNTING HARDWARE SHALL HAVE A BLACK FINISH PER THE MANUFACTURER'S SPECIFICATIONS.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE FOR EACH "ITEM 625 - LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN (SIGNIFY LUMEC) - ALTERNATE BID

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE THE ROADFOCUS AS MANUFACTURED BY SIGNIFY LUMEC (CATALOG# RFM-160W48LED4K-G2-4UNV-BK). THE LED LAMP SOURCE SHALL HAVE A COLOR TEMPERATURE OF 4000K AND SHALL HAVE A TYPE IV DISTRIBUTION. LUMINAIRES SHALL BE ORIENTED TOWARDS THE CENTERLINE OF COLONEL GLENN HIGHWAY.

LUMINAIRES SHALL INCLUDE A 7-PIN DIMMING RECEPTACLE.

THE LUMINAIRE HOUSING AND ALL VISIBLE MOUNTING HARDWARE SHALL HAVE A BLACK FINISH PER THE MANUFACTURER'S SPECIFICATIONS.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE FOR EACH "ITEM 625 - LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN (SIGNIFY LUMEC) - ALTERNATE BID" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, LIGHT POLE FOUNDATIONS INSTALLED ON THIS PROJECT SHALL BE AS FOLLOWS:

IT IS THE INTENT OF THESE PLANS THAT THE FOUNDATION PLACEMENTS TO NOT CONFLICT WITH EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLETE EXPLORATORY EXCAVATIONS, AS NEEDED, TO ENSURE POLE LOCATIONS CAN BE CONSTRUCTED AT BASE BID LOCATIONS. SHOULD THE CONTRACTOR FIND CONFLICT WITH THE UNDERGROUND OR OVERHEAD UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER ON AN ACCEPTABLE LOCATION.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE FOR EACH "ITEM 625 - LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, EXPLORATORY EXCAVATION AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - TRANSFORMER BASE, MISC.: ALUMINUM TRANSFORMER BASE

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, TRANSFORMER BASES INSTALLED ON THIS PROJECT SHALL BE AS FOLLOWS:

TRANSFORMER BASES SHALL BE A MAX OF 17" TALL, BE MADE OF ALUMINUM, AND BE APPROVED FOR BREAKAWAY CAPABILITY. THE CONNECTOR BOLT CIRCLE SHALL BE ABLE TO ACCOMMODATE THE BOLT CIRCLE OF THE CHOSEN LIGHT POLE.

THE TRANSFORMER BASE SHALL BE FLUSH WITH THE CONCRETE FOUNDATION. LEVELING NUTS ARE NOT ACCEPTABLE.

TRANSFORMER BASES SHALL HAVE A BLACK FINISH (FEDSTD 595B 17038) THAT CONFORMS TO ODOT SUPPLEMENTAL SPECIFICATION 916.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE FOR EACH "ITEM 625 - TRANSFORMER BASE, MISC.: ALUMINUM TRANSFORMER BASE" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

DESIGN AGENCY	
	
DESIGNER	
TAH	
REVIEWER	
MWN 08/30/23	
PROJECT ID	
115009	
SUBSET	TOTAL
0	0
SHEET	TOTAL
14	20

SHEET NO.	STATION TO STATION	SIDE	POLE / PULL BOX NO.	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
				CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	TRANSFORMER BASE, MISC.: ALUMINUM TRANSFORMER BASE	LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM	LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM (MILLERBERND) - ALTERNATE BID	LIGHT POLE FOUNDATION, 24" X 6' DEEP	LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 2", 725.051	CONDUIT, JACKED OR DRILLED, 725.052, 4"	LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN	LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN (SIGNIFY LUMEC) - ALTERNATE BID	TRENCH, 24" DEEP	PULL BOX, 725.06, SIZE 4	GROUND ROD	UNDERGROUND WARNING/MARKING TAPE
				EA	EA	EA	EA	EA	EA	EA	FT	FT	FT	FT	EA	EA	FT	EA	EA	FT
	CKT "B1"																			
17	STA 58+81.17	RT	B1-L6	2	1	1	1	1		1		123			1	1			1	
17	STA 58+81.17 STA 58+91.69	RT	B1-L6 to PB-11	-							66		12				12			12
17	STA 58+91.69	RT	PB-11															1		
17	STA 58+91.69 STA 59+52.83	RT	PB-11 TO PB-10								216			62						
17	STA 59+52.83	RT	PB-10															1		
17	STA 59+52.83 STA 60+41.48	RT	PB-10 TO B1-L5								297		89				89			89
17	STA 60+41.48	RT	B1-L5	2	1	1	1	1		1		123			1	1			1	
17	STA 60+41.48 STA 60+85.77	RT	B1-L5 TO PB-9								165		45				45			45
17	STA 60+85.77	RT	PB-9															1		
17	STA 60+85.77 STA 61+78.11	RT	PB-9 TO PB-8								309			93						
17	STA 61+78.11	RT	PB-8															1		
17	STA 61+78.11 STA 61+87.68	RT	PB-8 TO B1-L4																	
17	STA 61+87.68	RT	B1-L4	2	1	1	1	1		1		123			1	1			1	
17	STA 61+87.68 STA 63+47.30	RT	PB-8 TO PB-7								543			171						
17	STA 63+47.30	RT	PB-7															1		
17, 18	STA 63+47.30 STA 63+99.34	RT	PB-7 TO B1-L3								186		52				52			52
18	STA 63+99.34	RT	B1-L3	2	1	1	1	1		1		123			1	1			1	
18	STA 63+99.34 STA 64+15.39	RT	B1-L3 TO PB-6								78		16				16			16
18	STA 64+15.39	RT	PB-6															1		
18	STA 64+15.39 STA 65+18.93	RT	PB-6 TO PB-5								342			104						
18	STA 65+18.93	RT	PB-5															1		
18	STA 65+18.93 STA 65+49.34	RT	PB-5 TO B1-L2								123		31				31			31
18	STA 65+49.34	RT	B1-L2	2	1	1	1	1		1		123			1	1			1	
18	STA 65+49.34 STA 65+70.35	RT	B1-L2 TO PB-4								90		20				20			20
18	STA 65+70.35	RT	PB-4															1		
18	STA 65+70.35 STA 66+80.41	RT	PB-4 TO PB-3								360			110						
18	STA 66+80.41	RT	PB-3															1		
18	STA 66+80.41 STA 67+14.34	RT	PB-3 TO B1-L1								132		34				34			34
18	STA 67+14.34	RT	B1-L1	2	1	1	1	1		1		123			1	1			1	
18	STA 67+14.34 STA 67+23.22	RT	B1-L1 TO PB-2								57		9				9			9
18	STA 67+23.22	RT	PB-2																	
18	STA 67+23.22 STA 67+76.28	RT	PB-2 TO PB-1								189			53						
18	STA 67+76.28	RT	PB-1															1		
18	STA 67+76.28 STA 69+11.45	RT	PB-1 TO EX. PB-A								447			139						
18	STA 69+11.45 STA 69+04.88	RT	EX. PB-A TO LA								33									
TOTALS CARRIED TO GENERAL SUMMARY				12	6	6	6	6	0	6	3633	738	308	732	6	6	308	11	6	308

LIGHTING SUBSUMMARY

DESIGN AGENCY



DESIGNER

TAH

REVIEWER

MWN 06/30/23

PROJECT ID

115009

SUBSET

TOTAL

0

0

SHEET

TOTAL

15

20

SHEET NO.	STATION TO STATION	SIDE	POLE / PULL BOX NO.	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
				CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	TRANSFORMER BASE, MISC.: ALUMINUM TRANSFORMER BASE	LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM	LIGHT POLE, MISC.: LIGHT POLE WITH BRACKET ARM (MILLERBERND) - ALTERNATE BID	LIGHT POLE FOUNDATION, 24" X 6' DEEP	LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 2", 725.051	CONDUIT, JACKED OR DRILLED, 725.052, 4"	LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN	LUMINAIRE, CONVENTIONAL, 240V, LED, 18000-19000 LUMENS, AS PER PLAN (SIGNIFY LUMEC) - ALTERNATE BID	TRENCH, 24" DEEP	PULL BOX, 725.06, SIZE 4	GROUND ROD	UNDERGROUND WARNING/MARKING TAPE
				EA	EA	EA	EA	EA	EA	EA	FT	FT	FT	FT	EA	EA	FT	EA	EA	FT
	CKT "B2"																			
17	STA 58+04.94	LT	B2-L6	2	1	1	1	1	1			123			1	1			1	
17	STA 58+04.94 STA 58+27.63	LT	B2-L6 TO PB-18								99		23				23			23
17	STA 58+27.63	LT	PB-18															1		
17	STA 58+27.63 STA 59+47.45	LT	PB-18 TO PB-17								387			119						
17	STA 59+47.45	LT	PB-17															1		
17	STA 59+47.45 STA 59+55.86	LT	PB-17 TO B2-L5								54		8				8			8
17	STA 59+55.86	LT	B2-L5	2	1	1	1	1	1			123			1	1			1	
17	STA 59+55.86 STA 61+22.57	LT	B2-L5 TO B2-L4								528		166				166			166
17	STA 61+22.57	LT	B2-L4	2	1	1	1	1	1			123			1	1			1	
17	STA 61+22.57 STA 62+44.19	LT	B2-L4 TO PB-16								399		123				123			123
17	STA 62+44.19	LT	PB-16															1		
17	STA 62+44.19 STA 62+98.63	LT	PB-16 TO PB-15								192			54						
17	STA 62+98.63	LT	PB-15															1		
17	STA 62+98.63 STA 63+24.67	LT	PB-15 TO B2-L3								117		29				29			29
17	STA 63+24.67	LT	B2-L3	2	1	1	1	1	1			123			1	1			1	
17, 18	STA 63+24.67 STA 64+74.13	LT	B2-L3 TO B2-L2								483		151				151			151
18	STA 64+74.13	LT	B2-L2	2	1	1	1	1	1			123			1	1			1	
18	STA 64+74.13 STA 64+91.25	LT	B2-L2 TO PB-14								105		25				25			25
18	STA 64+91.25	LT	PB-14															1		
18	STA 64+91.25 STA 65+86.95	LT	PB-14 TO PB-13								318			96						
18	STA 65+86.95	LT	PB-13															1		
18	STA 65+86.95 STA 66+34.34	LT	PB-13 TO B2-L1								171		47				47			47
18	STA 66+34.34	LT	B2-L1	2	1	1	1	1	1			123			1	1			1	
18	STA 66+34.34 STA 67+69.76	LT	B2-L1 TO PB-12								435		135				135			135
18	STA 67+69.76	LT	PB-12															1		
18	STA 67+69.76 STA 69+11.30	LT	PB-12 TO Ex. PB-B								459			143						
18	STA 69+11.30	LT/RT	Ex. PB-B to Ex. PB-A								441									
18	STA 69+11.30 STA 69+04.88	RT	Ex. PB-A to Ex. LA								33									
TOTALS CARRIED TO GENERAL SUMMARY				12	6	6	6	6	6	0	4221	738	707	412	6	6	707	7	6	707

LIGHTING SUBSUMMARY

DESIGN AGENCY



THE KLEINGERS GROUP

DESIGNER  
TAH

REVIEWER  
MWN 06/30/23

PROJECT ID  
115009

SUBSET  
0

TOTAL  
0

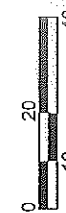
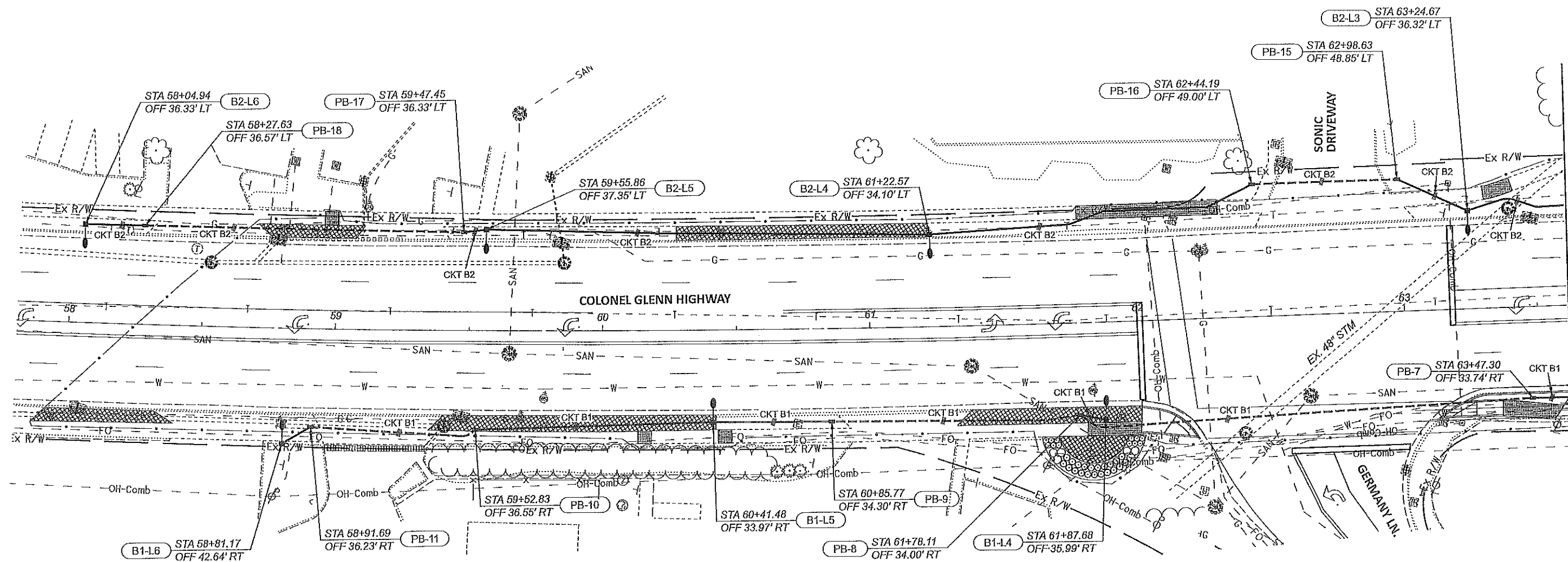
SHEET  
16

TOTAL  
20

## CIRCUIT DETAILS

CKT B1: 3 #8 AWG

CKT B2: 3 #8 AWG

HORIZONTAL  
SCALE IN FEETGRE CR 1 1.07 COL. GLENN HWY.  
LIGHTING PLAN

## LIGHTING NOTES

1. ALL CONDUIT UNDER ROADWAYS SHALL BE TYPE 725.052, 4", JACKED OR DRILLED AND ALL CONDUIT NOT UNDER ROADWAYS SHALL BE TYPE 725.051, 2" AND INSTALLED IN TRENCH, EXCEPT WHERE OTHERWISE NOTED.
2. ALL BRACKET ARMS AND LUMINAIRES SHALL BE ORIENTED PERPENDICULAR TO, AND FACING, THE COLONEL GLENN HIGHWAY CENTERLINE.
3. LOCATION OF TRENCH AND CONDUIT RUNS SHOWN ON THE DRAWING ARE APPROXIMATE. MAINTAIN 36" HORIZONTAL CLEARANCE AND 12" VERTICAL CLEARANCE FROM WATER, SANITARY, AND GAS LINES. MAINTAIN 12" HORIZONTAL CLEARANCE AND 12" VERTICAL CLEARANCE FROM UNDERGROUND TELECOM AND UNDERGROUND ELECTRIC LINES. FIELD ADJUST AS NEEDED.
4. LIGHT POLE PLACEMENT WAS DESIGNED WITH ELECTRICAL CLEARANCE IN MIND. NO PART OF A LIGHT POLE SHALL BE WITHIN A 5-FT HORIZONTAL OFFSET FROM AN OVERHEAD POWER LINE.
5. TRANSFORMER BASES SHALL BE FLUSH WITH CONCRETE FOUNDATION. LEVELING NUTS ARE NOT ACCEPTABLE.
6. SEE DETAILS ON SHEET 19 FOR CIRCUIT INFORMATION
7. TOP OF LIGHT FOUNDATION FOR PROPOSED LIGHT B1-L6 SHALL BE CONSTRUCTED FLUSH WITH THE TOP OF THE CURB AT THE BACK OF THE WALK.

## LEGEND

- EX. LIGHTING CONTROL CABINET
- PULL BOX, 13" X 24" X 24", 725.06
- PROPOSED LIGHT POLE
- CONDUIT, TRENCHED
- CONDUIT, JACKED OR DRILLED

DESIGN AGENCY



DESIGNER

TAH

REVIEWER

MWN 06/30/23

PROJECT ID

115009

SUBSET

TOTAL

0

0

SHEET

TOTAL

17

20

GRE-CR-1 1.07

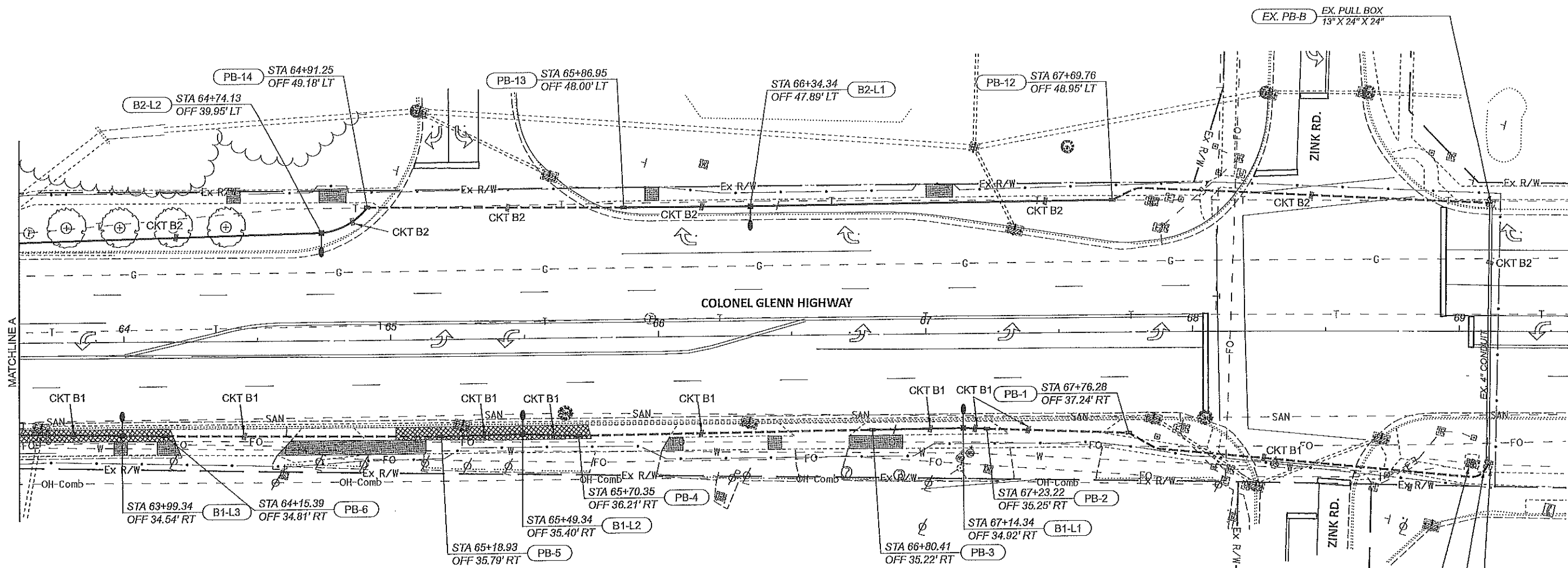
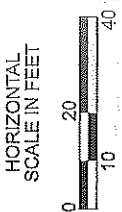
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# CIRCUIT DETAILS

CKT B1: 3 #8 AWG

CKT B2: 3 #8 AWG



## LIGHTING NOTES

1. ALL CONDUIT UNDER ROADWAYS SHALL BE TYPE 725.052, 4", JACKED OR DRILLED AND ALL CONDUIT NOT UNDER ROADWAYS SHALL BE TYPE 725.051, 2" AND INSTALLED IN TRENCH, EXCEPT WHERE OTHERWISE NOTED.
2. ALL BRACKET ARMS AND LUMINAIRES SHALL BE ORIENTED PERPENDICULAR TO, AND FACING, THE COLONEL GLENN HIGHWAY CENTERLINE.
3. CONNECT 4" CONDUIT (TYPE 725.052) TO THE 2" CONDUIT STUB ON SOUTH SIDE OF EX. PULL BOX PB-A.
4. LOCATION OF TRENCH AND CONDUIT RUNS SHOWN ON THE DRAWING ARE APPROXIMATE. MAINTAIN 36" HORIZONTAL CLEARANCE AND 12" VERTICAL CLEARANCE FROM WATER, SANITARY, AND GAS LINES. MAINTAIN 12" HORIZONTAL CLEARANCE AND 12" VERTICAL CLEARANCE FROM UNDERGROUND TELECOM AND UNDERGROUND ELECTRIC LINES. FIELD ADJUST AS NEEDED.
5. LIGHT POLE PLACEMENT WAS DESIGNED WITH ELECTRICAL CLEARANCE IN MIND. NO PART OF A LIGHT POLE SHALL BE WITHIN A 5-FT HORIZONTAL OFFSET FROM AN OVERHEAD POWER LINE.
6. TRANSFORMER BASES SHALL BE FLUSH WITH CONCRETE FOUNDATION. LEVELING NUTS ARE NOT ACCEPTABLE.
7. SEE DETAILS ON SHEET 19 FOR CIRCUIT INFORMATION

## LEGEND

- ☐ EX. LIGHTING CONTROL CABINET
- ☐ PULL BOX, 13" X 24" X 24", 725.06
- PROPOSED LIGHT POLE
- CONDUIT, TRENCHED
- CONDUIT, JACKED OR DRILLED

GRE CR 1 1.07 COL. GLENN HWY.  
LIGHTING PLAN

DESIGN AGENCY



DESIGNER

TAH

REVIEWER

MWN 06/30/23

PROJECT ID

115009

SUBSET TOTAL

0 0

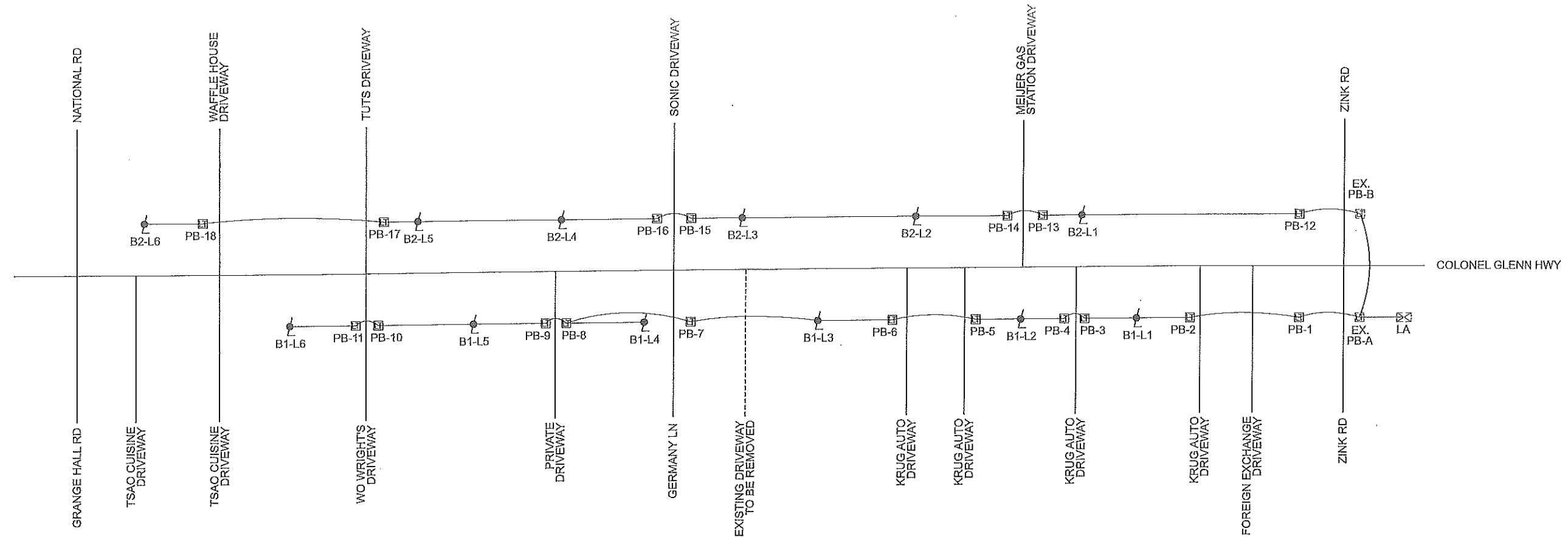
SHEET TOTAL

18 20

GRE-CR-1 1.07

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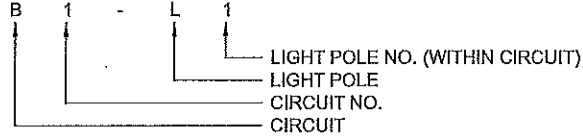


LIGHTING CIRCUIT DIAGRAM

LEGEND

- PROPOSED PULL BOX
- PROPOSED LIGHT POLE
- EXISTING CONTROL CENTER
- EXISTING PULL BOX

LIGHT POLE LABEL



CIRCUIT B2 VOLTAGE DROP 'NORTH CIRCUIT'

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
B2-L6	B2-L5	160	0.75	0.75	120	6	0.12	3.66	3.05	B2-L6
B2-L5	B2-L4	165	0.75	1.50	248	6	0.24	3.54	2.95	B2-L5
B2-L4	B2-L3	215	0.75	2.25	484	6	0.47	3.30	2.75	B2-L4
B2-L3	B2-L2	150	0.75	3.00	450	6	0.44	2.82	2.35	B2-L3
B2-L2	B2-L1	173	0.75	3.75	649	6	0.64	2.38	1.99	B2-L2
B2-L1	LA	396	0.75	4.50	1,782	6	1.75	1.75	1.46	B2-L1

CIRCUIT B1 VOLTAGE DROP 'SOUTH CIRCUIT'

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
B1-L6	B1-L5	174	0.75	0.75	131	6	0.13	2.98	2.48	B1-L6
B1-L5	B1-L4	157	0.75	1.50	236	6	0.23	2.85	2.37	B1-L5
B1-L4	B1-L3	238	0.75	2.25	536	6	0.52	2.62	2.18	B1-L4
B1-L3	B1-L2	160	0.75	3.00	480	6	0.47	2.09	1.74	B1-L3
B1-L2	B1-L1	175	0.75	3.75	656	6	0.64	1.62	1.35	B1-L2
B1-L1	LA	222	0.75	4.50	999	6	0.98	0.98	0.82	B1-L1

