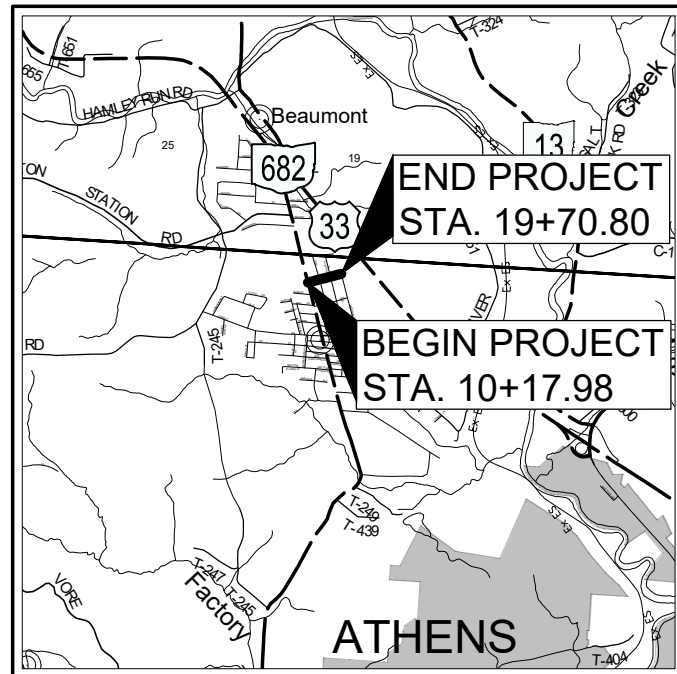


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

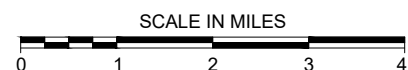
# ATH-ELM STREET

## ATHENS TOWNSHIP ATHENS COUNTY



LOCATION MAP

LATITUDE: ° ' " LONGITUDE: ° ' "



PORTION TO BE IMPROVED	—————	—————
INTERSTATE HIGHWAY	—————	—————
FEDERAL ROUTES	—————	—————
STATE ROUTES	—————	—————
COUNTY & TOWNSHIP ROADS	—————	—————
OTHER ROADS	—————	—————

**DESIGN DESIGNATION** ELM ST.

CURRENT ADT (2021)	1100
DESIGN YEAR ADT (2041)	1300
DESIGN HOURLY VOLUME (2041)	143
DIRECTIONAL DISTRIBUTION	0.55
TRUCKS (24 HOUR B&C)	0.021
DESIGN SPEED	30
LEGAL SPEED	25

DESIGN FUNCTIONAL CLASSIFICATION:  
LOCAL \_\_\_\_\_  
NHS PROJECT \_\_\_\_\_ NO

DESIGN EXCEPTIONS ADA DESIGN WAIVER  
NONE NONE REQUIRED

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

**OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE**  
1-800-925-0988

PLAN PREPARED BY:  
BUCKLEY GROUP, LLC  
6801 STATE ROUTE 56, ATHENS, OH 45701  
PH: (740) 589-5001 WWW.BUCKLEY.GROUP

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PROJECT DESCRIPTION

CONSTRUCTION OF APPROXIMATELY 956 LINEAR FEET OF ROAD REHAB, SIDEWALK, & DRAINAGE INSTALLATION THE PLAINS, OHIO ALONG ELM STREET FROM THE INTERSECTION OF SR682 TO THE INTERSECTION OF MACDONALD STREET.

PROJECT EARTH DISTURBED AREA: 0.36 ACRE  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.12 ACRE  
NOTICE OF INTENT EARTH DISTURBED AREA: NA  
\*\*NOI NOT REQUIRED

2019 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED BY ATHENS TOWNSHIP.

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ ATHENS TOWNSHIP TRUSTEES

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

ENGINEERS SEAL	STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
<p>SIGNED: <i>Clinton Kuenzli</i> DATE: 1/7/2022</p>	BP-3.1	1/17/20	HL-20.11	1/15/21	MT-105.10	1/17/20	800	10/15/21
	BP-4.1	7/19/13	HL-30.11	1/15/21	MT-110.10	7/19/13	825	1/17/20
	BP-5.1	7/17/20	HL-30.21	4/17/20			832	10/19/18
	BP-7.1	7/17/20	HL-30.22	1/15/21	RM-2.1	7/19/13		
			HL-40.10	7/17/20				
	CB-1	7/16/21	HL-40.20	7/17/20	TC-41.20	10/18/13		
	CB-2-2A,B,C	7/16/21	HL-60.11	7/21/17	TC-42.20	7/16/21		
	CB-3A	7/16/21	HL-60.31	1/17/20	TC-52.10	10/18/13		
	CB-7	7/16/21			TC-71.10	1/19/18		
			HW-2.1	7/20/18	TC-74.10	7/16/21		
	DM-1.1	7/17/20						
	DM-4.4	1/15/16	MH-3	7/16/21				
	HL-10.11	1/15/21	MT-97.10	4/19/19				
	HL-10.12	1/20/17	MT-101.60	1/17/20				
	HL-10.13	4/17/20	MT-101.90	7/17/20				

FEDERAL PROJECT NO.  
E191(531)

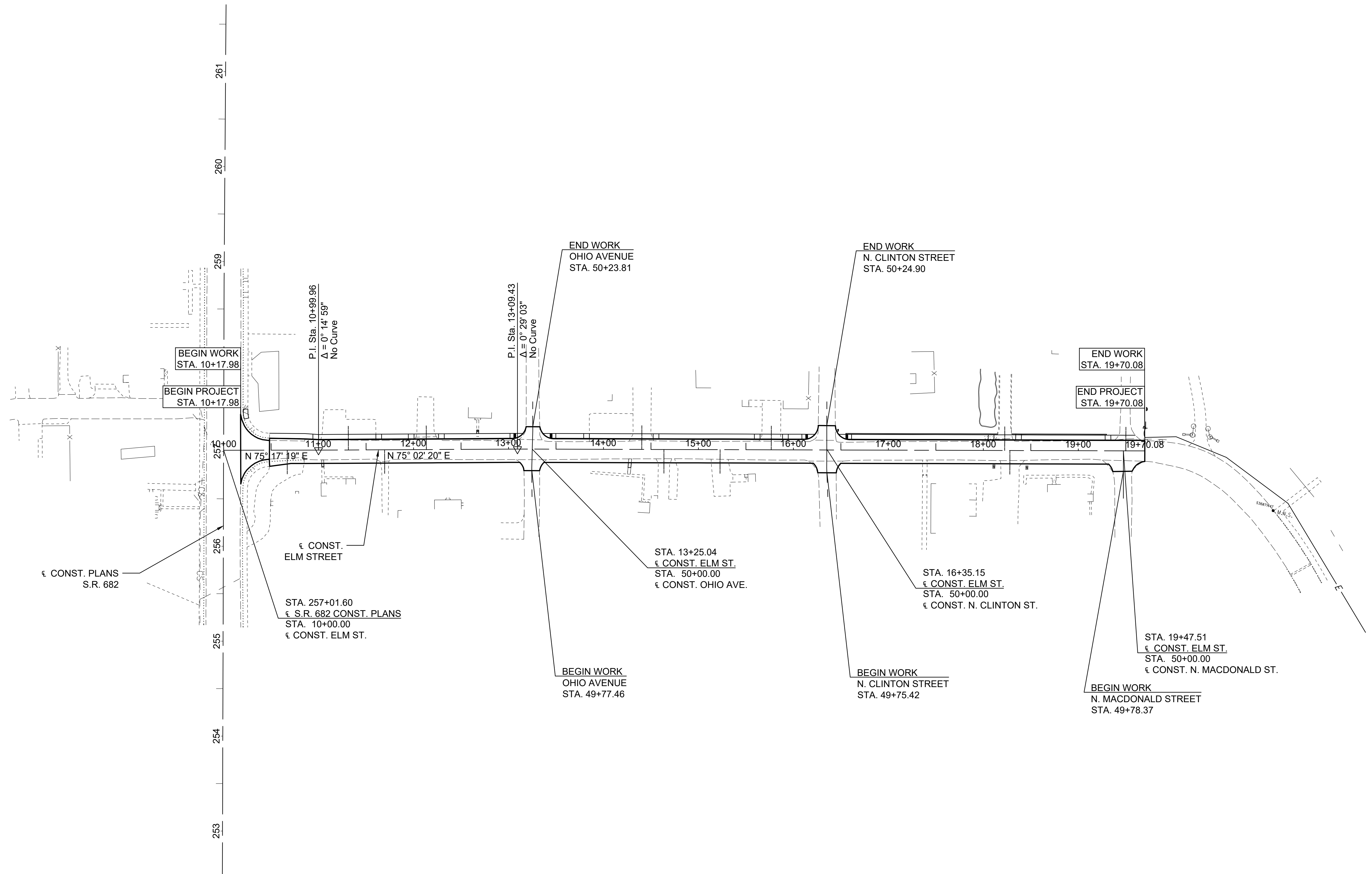
PID NO.  
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CONSTRUCTION PROJECT NO.  
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ATH-ELM STREET

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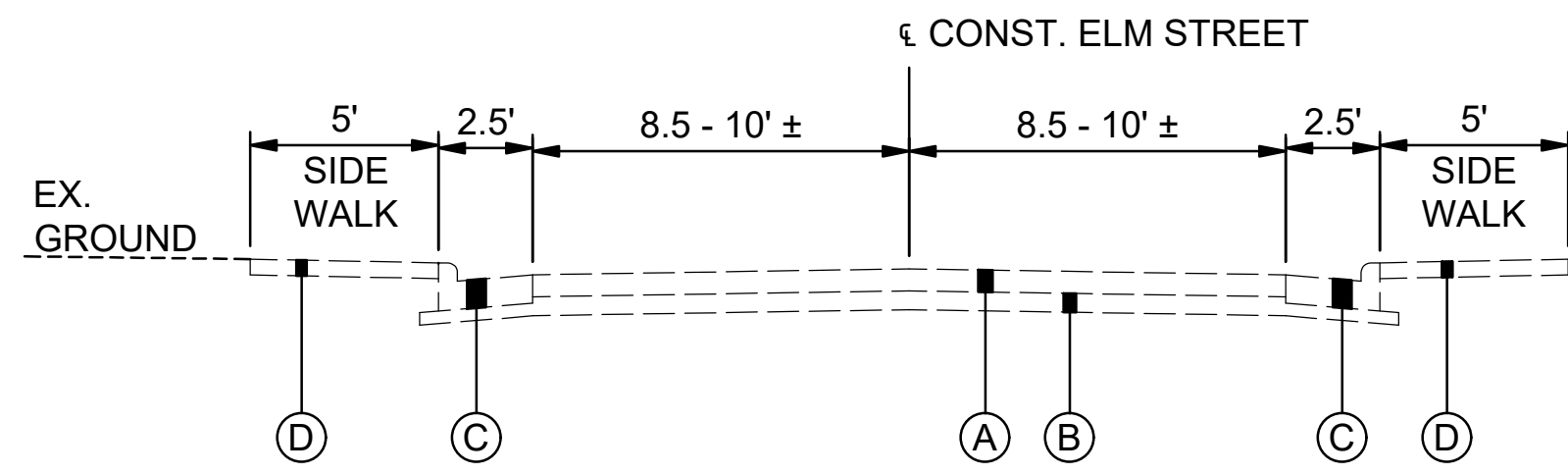


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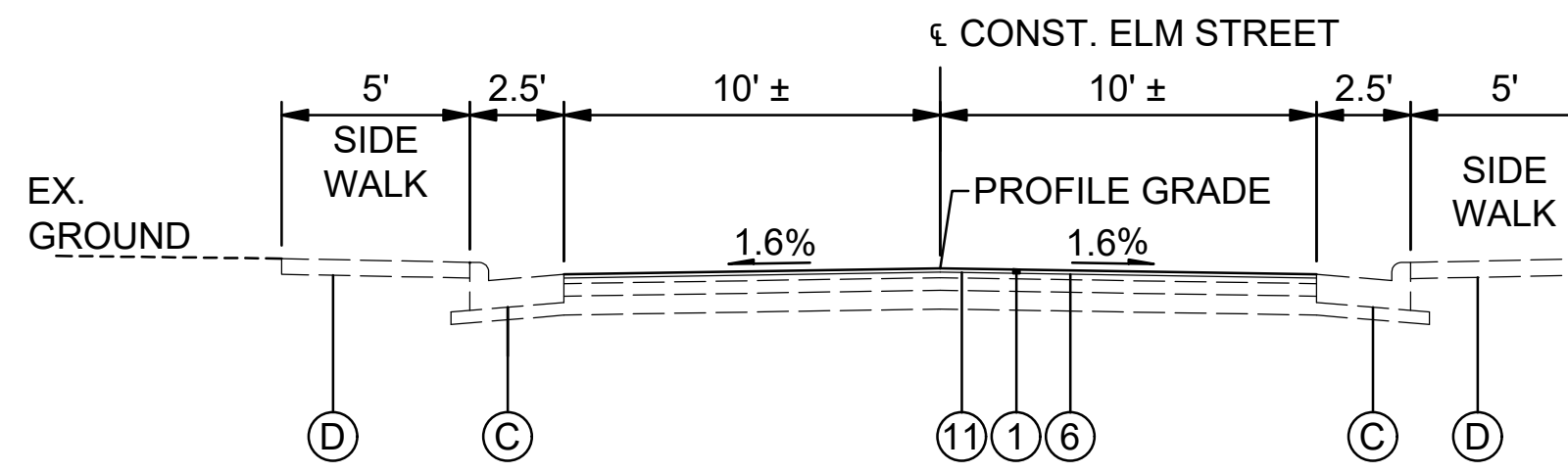
0 50 100  
 HORIZONTAL SCALE IN FEET

ELM ST  
 SCHEMATIC PLAN

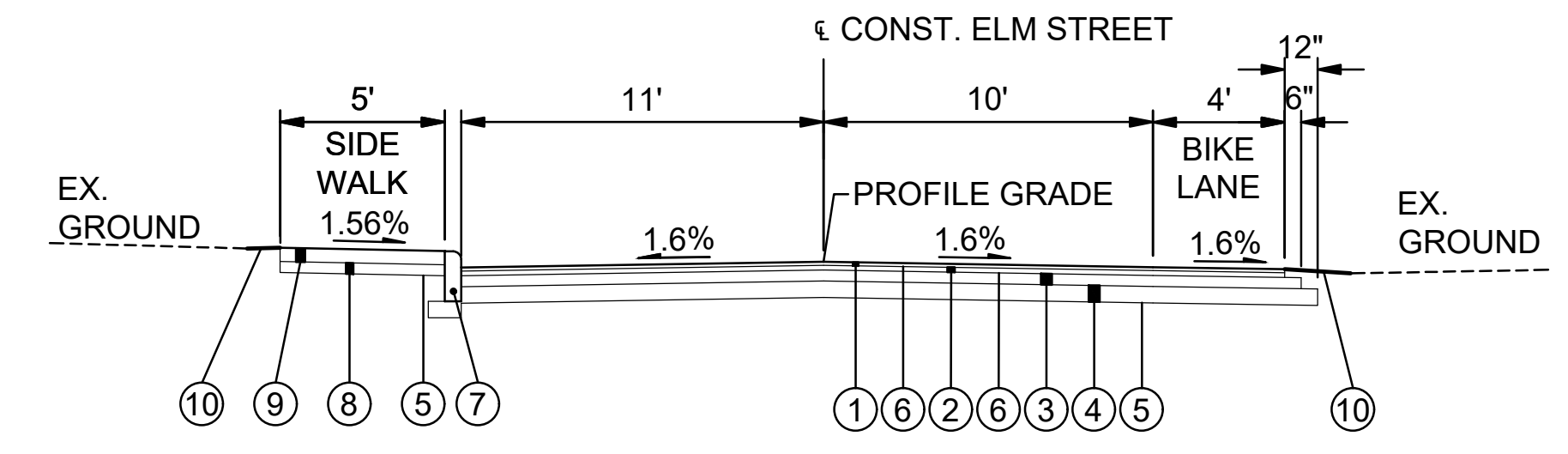
ATH-ELM STREET



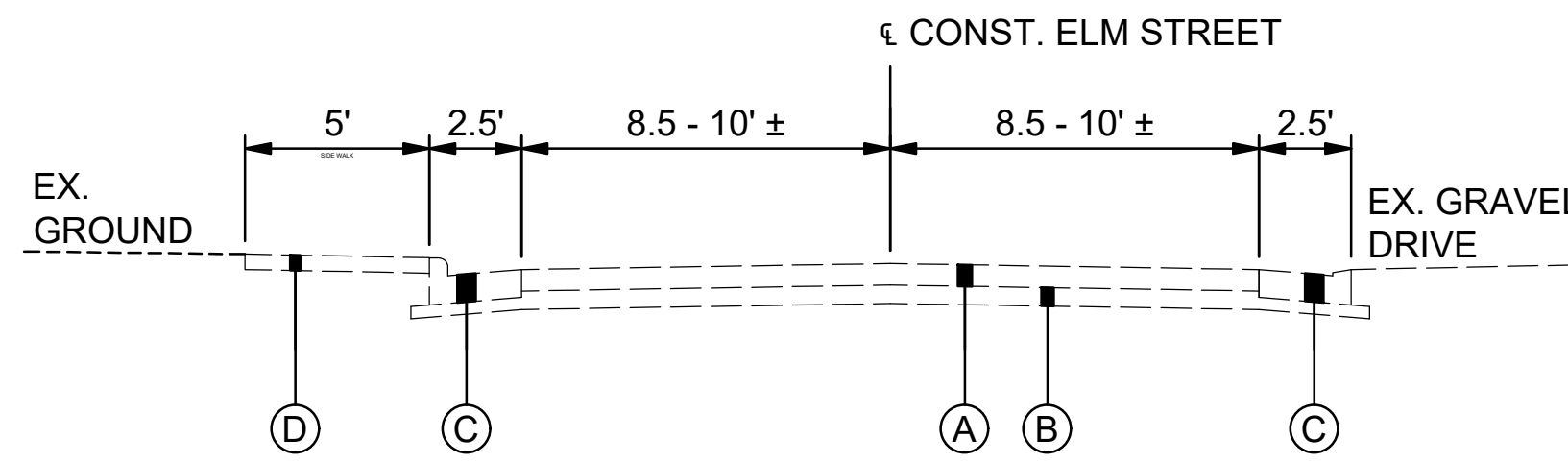
ELM ST. - EXISTING SECTION  
STA. 10+17.98 TO STA. 10+48



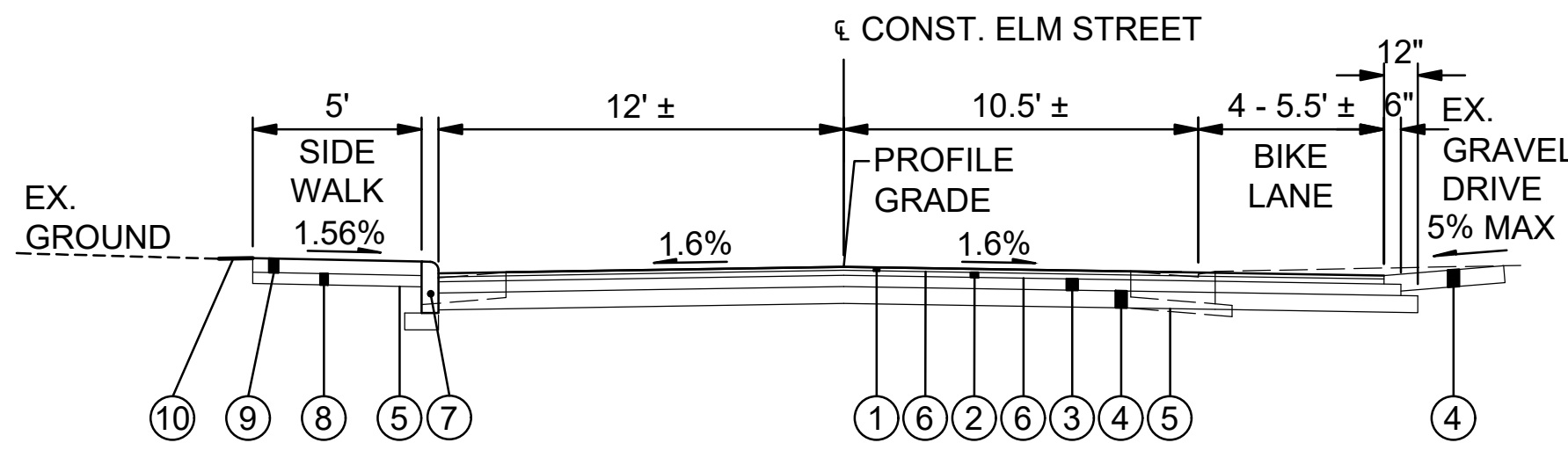
ELM ST. - NORMAL SECTION  
STA. 10+17.98 TO STA. 10+48



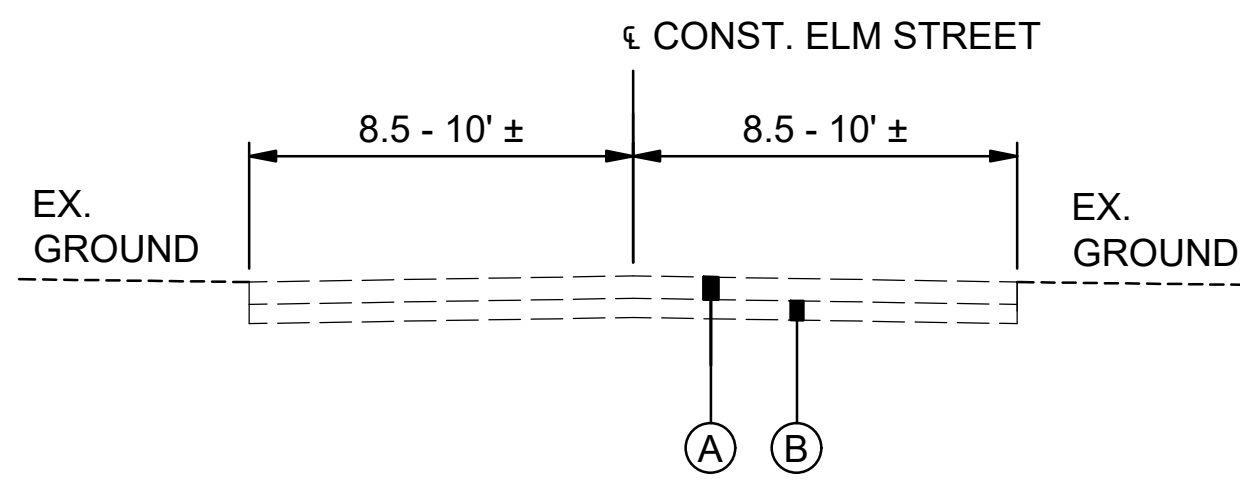
ELM ST. - NORMAL SECTION  
STA. 10+85 TO STA. 19+70.08



ELM ST. - EXISTING SECTION  
STA. 10+48 TO STA. 10+85



ELM ST. - NORMAL SECTION  
STA. 10+48 TO STA. 10+85



ELM ST. - EXISTING SECTION  
STA. 10+85 TO STA. 19+70.80

**PROPOSED LEGEND**

- ① ITEM 441 - 1 ¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- ② ITEM 441 - 1 ¼" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), PG64-22
- ③ ITEM 301 - 4" ASPHALT CONCRETE BASE
- ④ ITEM 304 - 6" AGGREGATE BASE
- ⑤ ITEM 204 - SUBGRADE COMPACTION
- ⑥ ITEM 407 - NON-TRACKING TACK COAT
- ⑦ ITEM 609 - CURB, TYPE 6
- ⑧ ITEM 304 - 4" AGGREGATE BASE
- ⑨ ITEM 608 - 5" CONCRETE WALK
- ⑩ ITEM 659 - SEEDING AND MULCHING
- ⑪ ITEM 254 - PAVEMENT PLANING (1 ¼" AVG.)

**EXISTING LEGEND**

- Ⓐ ± 7" ASPHALT CONCRETE
- Ⓑ ± 6" AGGREGATE BASE
- Ⓒ COMBINATION CURB AND GUTTER
- Ⓓ ± 5" SIDEWALK

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TYPICAL SECTIONS

ATH-ELM STREET

CALCULATED  
CDK  
CHECKED  
CDK

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

<b>UTILITIES</b>	
<b>WATER</b>	ATHENS COUNTY WATER AND SEWER DISTRICT 15 S. COURT STREET ATHENS, OH 45701 740-592-3219
<b>SEWER</b>	ATHENS COUNTY WATER AND SEWER DISTRICT 15 S. COURT STREET ATHENS, OH 45701 740-592-3219
<b>GAS</b>	COLUMBIA GAS OF OHIO MICHAEL PAULUS 2009 EAST STATE STREET ATHENS, OH 45701 740-774-8229
	COLUMBIA GAS TRANSMISSION JOHNATHAN FRAZIER 700 LOUISIANA STREET, SUITE 700 HOUSTON, TX 77002 304-357-2209
<b>ELECTRIC</b>	AEP OHIO CLARK SAUNDERS 38831 STATE ROUTE 7 REEDSVILLE, OH 45769 614-312-5807
<b>TELEPHONE/COMMUNICATIONS</b>	FRONTIER COMMUNICATIONS STEVEN KISLING 754 WEST UNION STREET ATHENS, OH 45701 740-591-3687
<b>CABLE</b>	CHARTER COMMUNICATIONS JARED SMITH 3760 INTERCHANGE RD. COLUMBUS, OH 43204 614-226-0321

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.

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.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 PM AND 7 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS

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

PROJECT CONTROL  
POSITIONING METHOD: GPS - VRS  
MONUMENT TYPE: NGS CORS (STKR)

VERTICAL POSITIONING  
ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: 12A

HORIZONTAL POSITIONING  
REFERENCE FRAME: NAD 83 (2011)  
ELLIPSOID: GRS 80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: 3402 (OH SOUTH)  
COMBINED SCALE FACTOR: N/A GRID  
ORIGIN OF OF COORDINATE SYSTEM: N/A

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.

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.

SEEDING AND MULCHING

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

ITEM 659 - SEEDING AND MULCHING	605 SY
ITEM 659 - COMMERCIAL FERTILIZER	0.05 TON
ITEM 659 - LIME	0.13 ACRE
ITEM 659 - TOPSOIL	67 CY

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS AND 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.

ITEM 202 - PIPE REMOVED, AS PER PLAN

PIPES 12" AND LARGER MAY BE FILLED AND PLUGGED IN PLACE IN LIEU OF REMOVAL. IF FILLING AND PLUGGING IN PLACE, ITEM SHALL CONSIST OF CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, LOW STRENGTH MORTAR BACKFILL OR OTHER MATERIAL APPROVED BY THE ENGINEER. BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH SHALL BE FILLED.

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, 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, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER 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 IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM

PAYMENT FOR PIPE REMOVAL AND/OR FILLING AND PLUGGING IN PLACE WILL BE MADE UNDER ITEM 202 - PIPE REMOVED, AS PER PLAN.

CONNECTED STRUCTURES SHALL BE REMOVED PER ITEM 202, MANHOLE REMOVED OR ITEM 202 - CATCH BASIN REMOVED AND PAYMENT FOR THOSE REMOVALS WILL BE MADE UNDER THE SAME.

THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AT ALL TIMES.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE THE GEOTECHNICAL REPORT LOCATED IN THE BID SPECIFICATIONS BOOKLET FOR MORE INFORMATION.

ITEM 204 - PROOF ROLLING	2 HOURS
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ITEM 204 - EXCAVATION OF SUBGRADE (AS DIRECTED BY ENGINEER)

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING REMOVAL OF UNSUITABLE SUBGRADE MATERIAL IDENTIFIED DURING PROOF ROLLING. SEE THE GEOTECHNICAL REPORT LOCATED IN THE BID SPECIFICATIONS BOOKLET FOR MORE INFORMATION.

ITEM 204 - EXCAVATION OF SUBGRADE	111 CY
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CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS. PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE. THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM 204 - GRANULAR MATERIAL, TYPE B (AS DIRECTED BY ENGINEER)

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS OF EXCAVATED SUBGRADE IDENTIFIED IN PROOF ROLLING. SEE THE GEOTECHNICAL REPORT LOCATED IN THE BID SPECIFICATIONS BOOKLET FOR MORE INFORMATION.

ITEM 204 - GRANULAR MATERIAL TYPE B	111 CY
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ITEM 204 - GEOTEXTILE FABRIC (AS DIRECTED BY ENGINEER)

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS OF UNSUITABLE SUBGRADE IDENTIFIED IN PROOF ROLLING. SEE THE GEOTECHNICAL REPORT LOCATED IN THE BID SPECIFICATIONS BOOKLET FOR MORE INFORMATION.

ITEM 204 - GEOTEXTILE FABRIC	266 SY
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CALCULATED	CDK	CHECKED	CDK		
GENERAL NOTES					
ATH- ELM STREET					
<table border="1" style="margin: auto;"> <tr> <td style="width: 20px; text-align: center;">4</td> </tr> <tr> <td style="width: 20px; text-align: center;">33</td> </tr> </table>				4	33
4					
33					

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ITEM 610 - CELLULAR RETAINING WALL, AS PER PLAN

SCOPE OF WORK INCLUDES FURNISHING AND INSTALLING CELLULAR RETAINING WALL UNITS TO THE LINES AND GRADES DESIGNATED ON THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL CHECK MATERIALS UPON DELIVERY TO ENSURE PROPER MATERIAL HAS BEEN RECEIVED. CONTRACTOR SHALL PROTECT THE MATERIALS FROM DAMAGE.

LEVELING PAD SUBGRADE SOIL SHALL BE COMPACTED TO 95% STANDARD PROCTOR OR 90% OF MODIFIED PROCTOR BEFORE PLACEMENT OF LEVELING PAD MATERIAL. LEVELING PAD SHALL BE CRUSHED STONE. POROUS BACKFILL SHALL BE WASHED STONE.

4" PERFORATED DRAIN PIPE, DRAINAGE AGGREGATE, AND LEVELING PAD IS INCIDENTAL TO ITEM 610 - CELLULAR RETAINING WALL, AS PER PLAN AND PAYMENT WILL BE MADE UNDER ITEM 610 - CELLULAR RETAINING WALL UNIT PRICE BID. CONTRACTOR SHALL OUTLET PERFORATED DRAIN PIPE TO A PROPOSED DRAINAGE STRUCTURE.

BLOCKS SHALL BE DIAMOND PRO 9D BLOCKS, ALLAN BLOCK AB DOVER, MM CONCRETE BLOCK CLIFTON STRAIGHT BLOCKS, OR APPROVED EQUAL. SEE WALL CONSTRUCTION DETAILS THIS SHEET.

ITEM 611 - INLET, SIDE DITCH, AS PER PLAN

CONTRACTOR MAY USE NYLOPLAST 2808AG 8" DRAIN BASINS WITH DROP IN GRATES FOR THIS ITEM.

ITEM 638 - FIRE HYDRANT REMOVED AND RESET, AS PER PLAN

CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER A MINIMUM OF 10 WORKING DAYS IN ADVANCE OF FIRE HYDRANT RELOCATION WORK. CONTRACTOR SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO RELOCATE AND PROPERLY TEST THE HYDRANT AND WATERLINE.

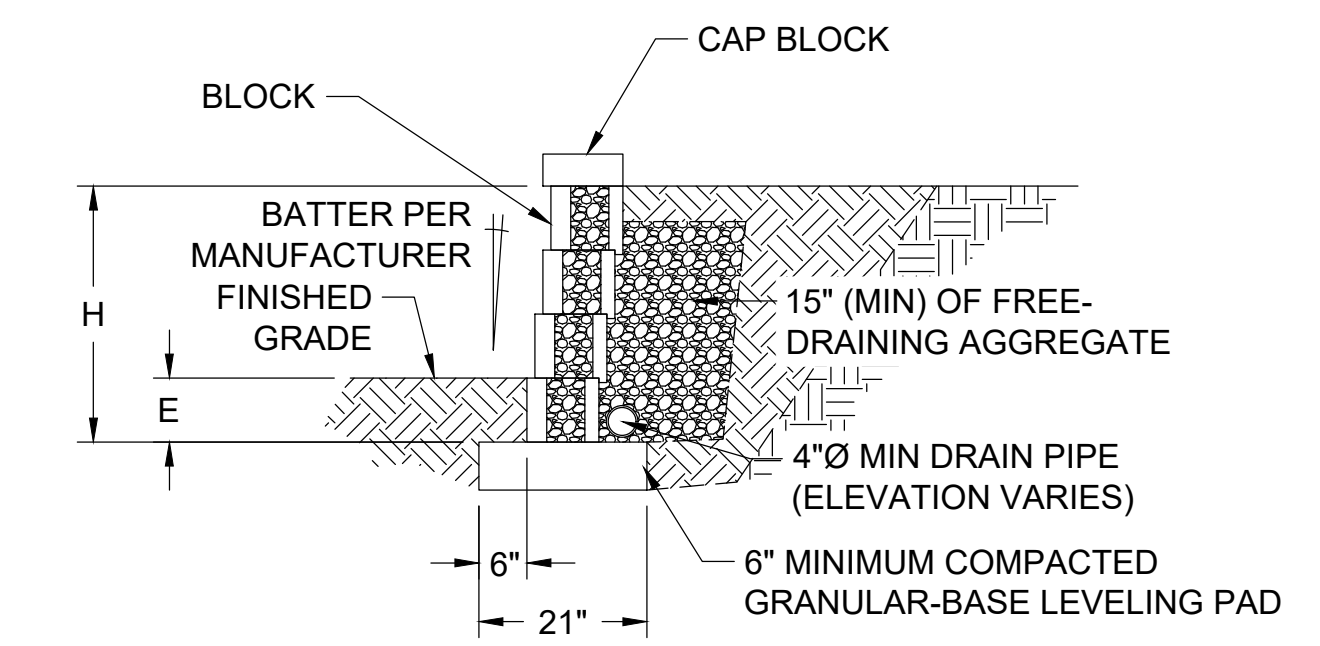
FLANGE CONNECTION OF HYDRANT TO MAIN SHALL BE SET 6" ABOVE FINISH GRADE TO ALLOW ACCESS TO HYDRANT BEHIND PROPOSED BLOCK WALL.

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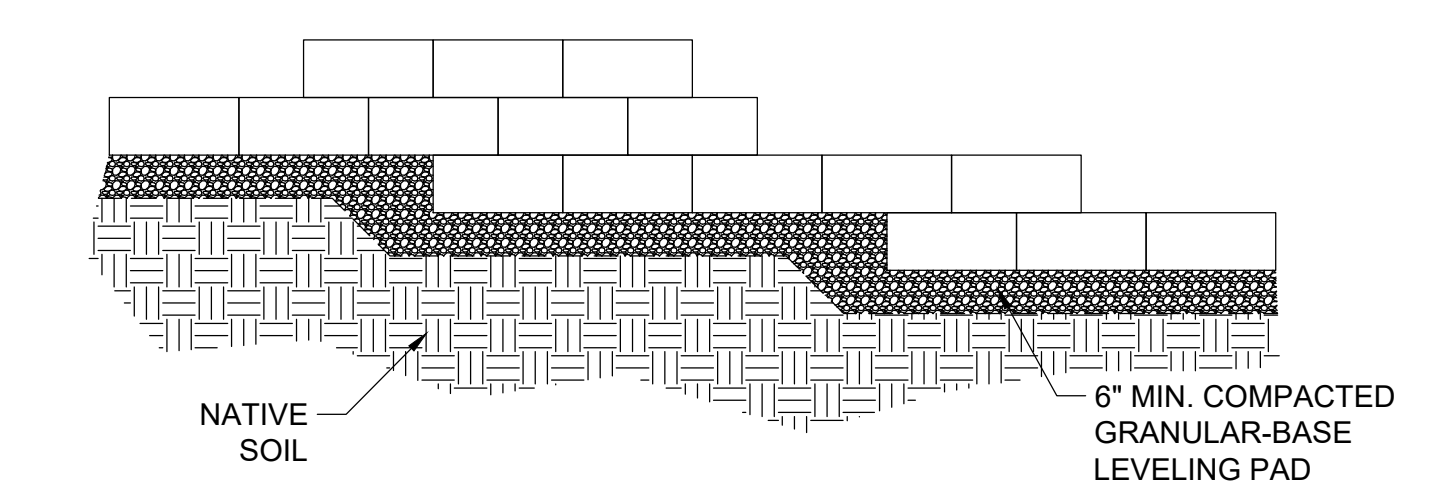
GENERAL NOTES

ATH-ELM STREET

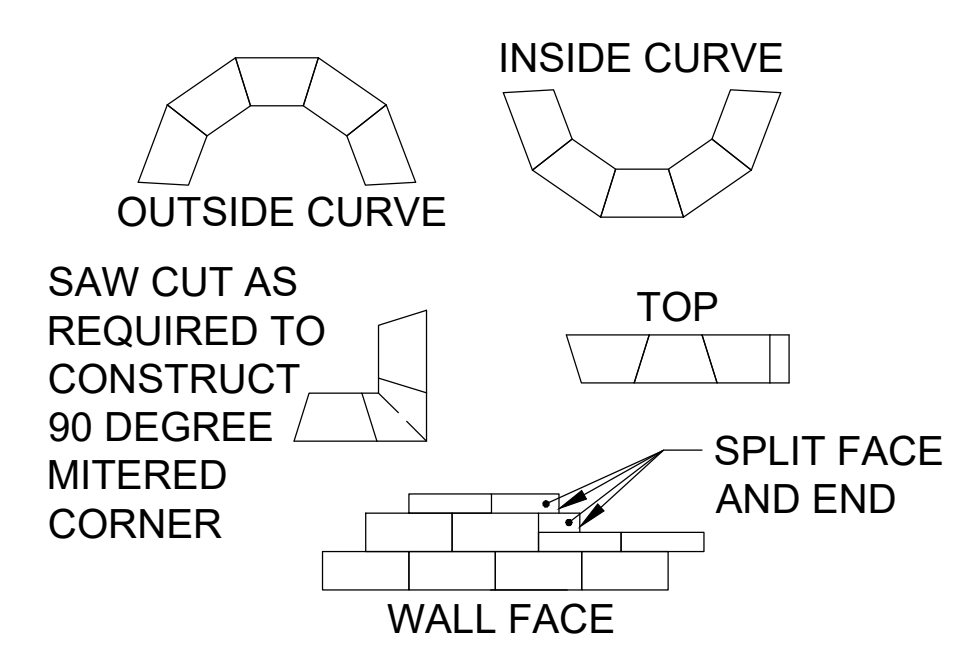
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TYPICAL GRAVITY WALL CROSS SECTION  
NOT TO SCALE



TYPICAL WALL BASE STEP-UP  
NOT TO SCALE



1. ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
2. LAYOUT CAPS PRIOR TO USING ADHESIVE.
3. CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
4. ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
5. USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.

CAPPING DETAILS  
NOT TO SCALE

**SEQUENCE OF CONSTRUCTION**

UPON AWARD, CONTRACTOR SHALL ORDER ALL MATERIALS THAT HAVE A SIGNIFICANT LEAD TIME.

**PHASE 1**  
 PREPARE TO CLOSE ELM STREET BY ERECTING TRAFFIC CONTROL AND COORDINATING THE DETOUR WITH ATHENS TOWNSHIP. BEGIN PHASE 1 CONSTRUCTION; PHASE 1 CONSTRUCTION INCLUDES THE CLOSURE OF ELM STREET FROM S.R. 682 TO THE INTERSECTION OF MCDONALD STREET, WITH THE ENTIRETY OF THE MCDONALD STREET INTERSECTION OPEN TO TRAFFIC. THIS WILL ALLOW FLOW OF TRAFFIC TO AND FROM ATHENS HIGH SCHOOL ALONG MCDONALD STREET UNTIL PHASE 2. INTERSECTIONS OF OHIO AVENUE AND CLINTON STREET WILL BE CLOSED AT ELM STREET DURING PHASE 1. CONTRACTOR TO MAINTAIN LOCAL ACCESS TO RESIDENCES WITHIN THE WORK LIMITS.

**PHASE 2**  
 PHASE 2 CONSTRUCTION INCLUDES THE CLOSURE OF THE INTERSECTION OF MCDONALD STREET AND ELM STREET.

**ITEM 614 - MAINTAINING TRAFFIC**

DRIVEWAYS AND ACCESS TO BUSINESS ENTRANCES (VEHICULAR AND PEDESTRIAN) MUST BE MAINTAINED AT ALL TIMES. CONSTRUCT DRIVES PART-WIDTH UNLESS THE BUSINESS/PROPERTY HAS MULTIPLE DRIVES, IN WHICH CASE ONLY ONE DRIVE SHALL BE CLOSED AN UNDER CONSTRUCTION AT A TIME UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ANY CHANGES RELATED TO ACCESS TO ADJACENT PROPERTIES SHALL BE COORDINATED WITH THE PROPERTY OWNERS A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTATION. COST TO MAINTAIN ACCESS SHALL BE CONSIDERED INCIDENTAL TO ITEM 614, MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ATHENS TOWNSHIP WILL PROVIDE SIGNS FOR THE DETOUR ROUTE AND MAINTAIN DETOUR SIGNS. CONTRACTOR TO COORDINATE CLOSURE OF ELM STREET WITH ATHENS TOWNSHIP.

**NOTICE OF CLOSURE SIGN**

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.] THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE.

**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 OFFICE OF COMMUNICATIONS. 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, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME FRAME TABLE		
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO THE TOWNSHIP
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

**ROAD CLOSED SIGN**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

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.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 90 CONSECUTIVE CALENDAR DAYS. DETOUR ROUTES WILL BE COORDINATED WITH ATHENS TOWNSHIP. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$900 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

**PHASE 1**  
 ELM STREET JUST EAST OF S.R. 682 INTERSECTION  
 OHIO AVENUE JUST NORTH & SOUTH OF ELM STREET INTERSECTION  
 CLINTON STREET JUST NORTH & SOUTH OF ELM STREET INTERSECTION

**PHASE 2**  
 MCDONALD STREET JUST SOUTH OF ELM STREET INTERSECTION

**PHASE 3**  
 PLACEMENT OF SURFACE COURSE ASPHALT ALL AT ONCE FOR THE ENTIRE LENGTH OF THE PROJECT.

**MAINTENANCE OF DRAINAGE**

THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AT ALL TIMES. THIS SHALL BE ACHIEVED BY USE OF EXISTING DRAINAGE PIPES, DITCHES, CULVERTS, AND PROPOSED PIPES/DEVICES, ETC. WHEN AT ALL POSSIBLE. UNLESS SEPARATELY ITEMIZED IN THE PLANS, ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO MAINTAIN DRAINAGE DURING CONSTRUCTION, INCLUDING SUBSEQUENT REMOVAL OF ANY TEMPORARY ITEMS, AND/OR PLUGGING OR FILLING OF EXISTING OR TEMPORARY PIPES, SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN, LUMP SUM.

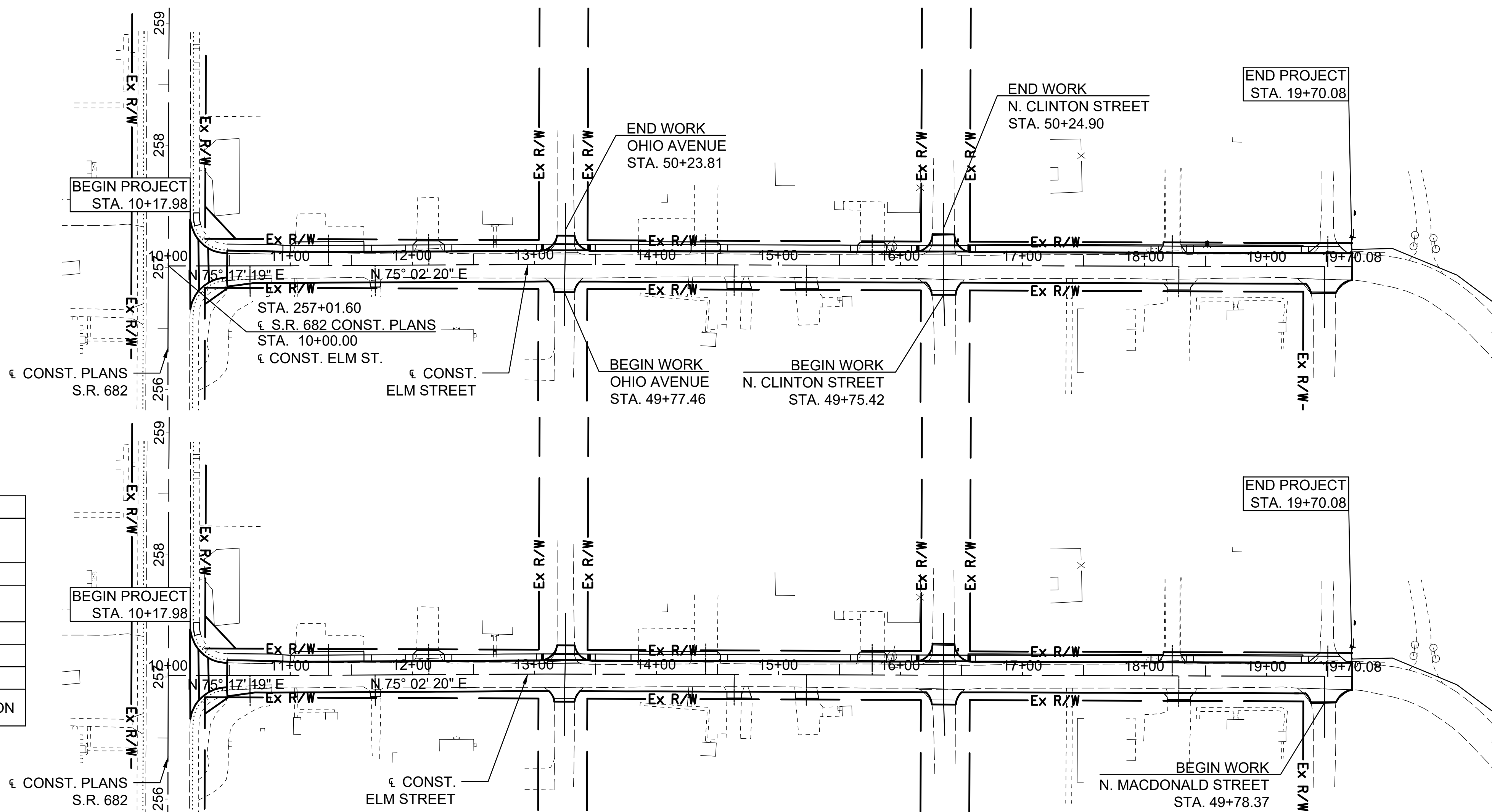
**PAVEMENT DROP-OFFS - AGGREGATE WEDGE**

TO FACILITATE ACCESS TO DRIVEWAYS AND BUSINESS ENTRANCES, CONTRACTOR SHALL PROVIDE AGGREGATE WEDGES AT ALL INGRESS AND EGRESS LOCATIONS WITH DROPOFFS IN EXCESS OF 12 INCHES WITH ITEM 304 AGGREGATE AT A SLOPE NOT TO EXCEED 3:1.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE C, 100 CU. YD.

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.



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CALCULATED  
 CDK  
 CHECKED  
 CDK

MAINTENANCE OF TRAFFIC GENERAL NOTES

ATH-ELM STREET

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SHEET NUM.								PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
10	12	13	14	15	16	25	OFFICE CALCS	01/ENH/OT	02/S<2/OT						
<b>ROADWAY</b>															
								LS		201	11000	LS	CLEARING AND GRUBBING	4	
							2378	171	2207	202	23000	2,378	PAVEMENT REMOVED		
59	18							77		202	30000	77	WALK REMOVED		
82								41	41	202	32500	82	CURB AND GUTTER REMOVED		
	10							10		202	32600	10	GUTTER REMOVED		
630	177							807		202	35101	807	PIPE REMOVED, 24" AND UNDER, AS PER PLAN	4	
7	1							8		202	58100	8	CATCH BASIN REMOVED		
		166	219	255	255			895		203	10000	895	EXCAVATION		
		22	14	30				66		203	20000	66	EMBANKMENT		
							3236	897	2,339	204	10000	3,236	SUBGRADE COMPACTION		
								0.32	1.68	204	45001	2	PROOF ROLLING, AS PER PLAN	4	
								18	93	204	13000	111	EXCAVATION OF SUBGRADE		
								18	93	204	30010	111	GRANULAR MATERIAL, TYPE B		
								43	223	204	50000	266	GEOTEXTILE FABRIC		
111								111		254	01000	111	PAVEMENT PLANING, ASPHALT CONCRETE 1-1/4" DEPTH		
								100		410	13000	100	TRAFFIC COMPACTED SURFACE, TYPE C	6	
1197	1609							2806		608	12000	2,806	5" CONCRETE WALK		
767	339							1106		608	13020	1,106	7" CONCRETE WALK		
5								5		608	41000	5	CONCRETE STEPS, TYPE B		
241	211							452		608	52000	452	CURB RAMP		
							841	841		609	26000	841	CURB, TYPE 6		
<b>EROSION CONTROL</b>															
								605		659	10000	605	SEEDING AND MULCHING	4	
								0.05		659	20000	0.05	COMMERCIAL FERTILIZER	4	
								0.13		659	31000	0.13	LIME	4	
								67		659	00300	67	TOPSOIL	4	
								11,000		832	30000	11,000	EROSION CONTROL		
<b>DRAINAGE</b>															
						0.21		0.21		602	20000	0.21	CONCRETE MASONRY		
						308		308		611	01800	308	8" CONDUIT, TYPE B		
						913		913		611	04400	913	12" CONDUIT, TYPE B		
						3		3		611	98470	3	CATCH BASIN, NO. 2-2B		
						1		1		611	98370	1	CATCH BASIN, NO. 6		
						12		12		611	98701	12	INLET, SIDE DITCH, AS PER PLAN	5	
						8		8		611	99574	8	MANHOLE, NO. 3		
<b>PAVEMENT</b>															
							302	42	260	301	46000	302	ASPHALT CONCRETE BASE, PG64-22		
							532	142	390	304	20000	532	AGGREGATE BASE		
							333	45	288	407	20000	333	NON-TRACKING TACK COAT		
							98	13	85	441	50000	98	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		
							132	18	114	441	50300	132	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)		
32	13							45		452	11010	45	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P		
<b>WATER WORK</b>															
	1							1		638	10501	1	FIRE HYDRANT REMOVED AND RESET, AS PER PLAN	5	
1								1		638	10800	1	VALVE BOX ADJUSTED TO GRADE		
<b>SANITARY SEWER</b>															
	3							3		611	99654	3	MANHOLE ADJUSTED TO GRADE		

GENERAL SUMMARY

ATH-ELM STREET

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SHEET NUM.									PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
10	12	28	30				OFFICE CALCS	01/ENH/OT	02/S<2/OT	EXT						
<b>LIGHTING</b>																
			20					20		625	00450	20	EACH	CONNECTION, FUSED PULL APART		
			10					10		625	10481	10	EACH	LIGHT POLE, DECORATIVE, AS PER PLAN	29	
			10					10		625	14501	10	EACH	LIGHT POLE FOUNDATION, AS PER PLAN	29	
			3453					3453		625	22990	3,453	FT	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE		
			360					360		625	23400	360	FT	NO. 10 AWG POLE AND BRACKET CABLE		
			699					699		625	25408	699	FT	CONDUIT, 2", 725.051		
			282					282		625	25802	282	FT	CONDUIT, CONCRETE ENCASED, 2", 725.051		
			10					10		625	27403	10	EACH	LUMINAIRE, POST TOP, SOLID STATE (LED), AS PER PLAN	29	
			981					981		625	29000	981	FT	TRENCH		
			8					8		625	30700	8	EACH	PULL BOX, 725.08, 18"		
			10					10		625	32000	10	EACH	GROUND ROD		
			1					1		625	34001	1	EACH	POWER SERVICE, AS PER PLAN	29	
			981					981		625	36010	981	FT	UNDERGROUND WARNING/MARKING TAPE		
			1					1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL		
<b>TRAFFIC CONTROL</b>																
		104						104		630	03100	104.00	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		
		32.4						32.4		630	08530	32	FT	STREET NAME SIGN SUPPORT, NO. 4 POST		
		50.2						50.2		630	80100	50.2	SF	SIGN, FLAT SHEET		
		2						2		630	80500	2	EACH	SIGN, DOUBLE FACED, STREET NAME		
		6						6		630	08600	6	EACH	SIGN POST REFLECTOR		
		2						2		630	85100	2.00	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
		8						8		630	85200	8	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY		
		9						9		630	86050	9	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DELIVERY		
		0.15						0.15		644	00100	0	MILE	EDGE LINE, 4"		
		0.15							0.15	644	00300	0	MILE	CENTER LINE		
		98						98		644	00500	98	FT	STOP LINE		
		191						191		644	00600	191	FT	CROSSWALK LINE, 12"		
		6						6		644	01630	6	EACH	BIKE LANE SYMBOL MARKING		
<b>RETAINING WALLS</b>																
	609							609		610	13001	609	SF	CELLULAR RETAINING WALL (CONCRETE), AS PER PLAN	5	
<b>INCIDENTALS</b>																
								LS		614	11000	LS		MAINTAINING TRAFFIC	6	
								LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
								LS		624	10000	LS		MOBILIZATION		

GENERAL SUMMARY

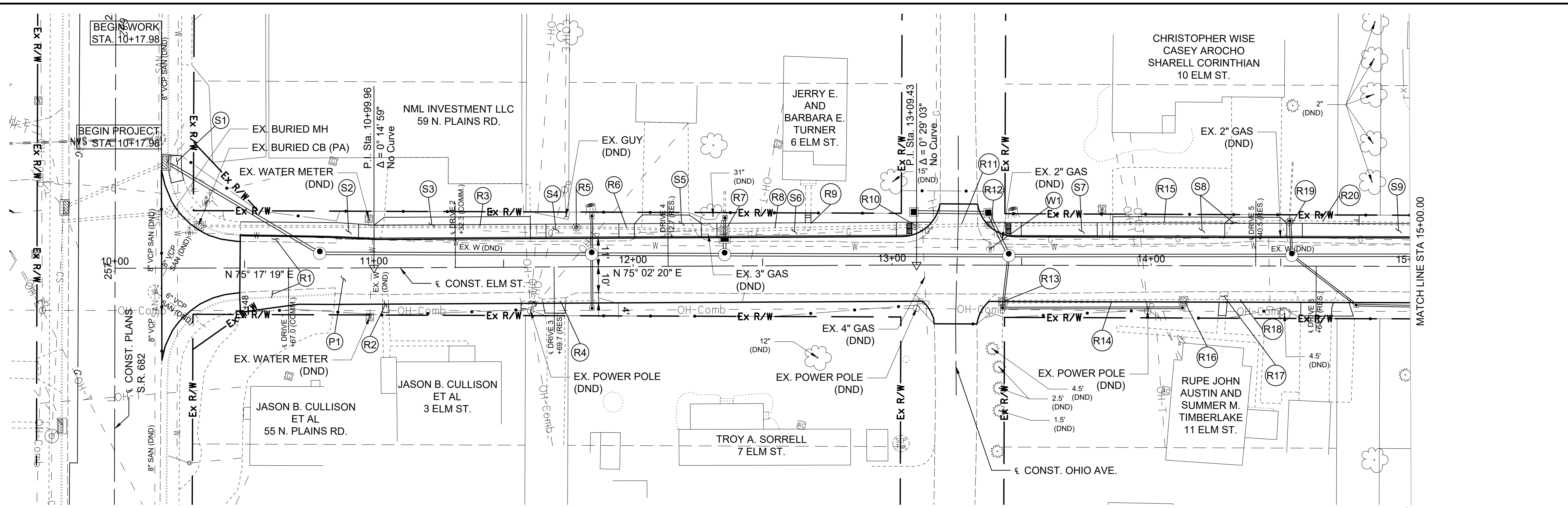
ATH- ELM STREET



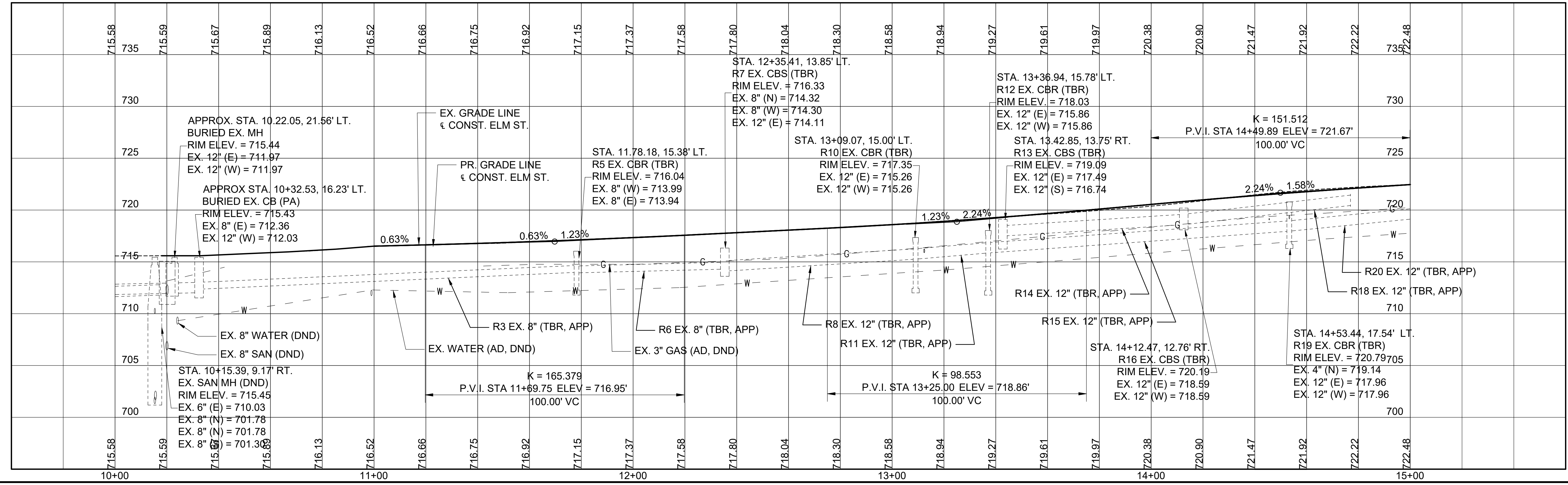


PLAN & PROFILE - ELM ST.  
 BEGIN WORK TO STA. 15+00.00

ATH-ELM STREET



**LEGEND**  
 TBR = TO BE REMOVED  
 ATG = ADJUST TO GRADE  
 TBRL = TO BE RELOCATED  
 DND = DO NOT DISTURB  
 PA = PREVIOUSLY ABANDONED  
 AD = ASSUMED DEPTH  
 BO = BY OTHERS



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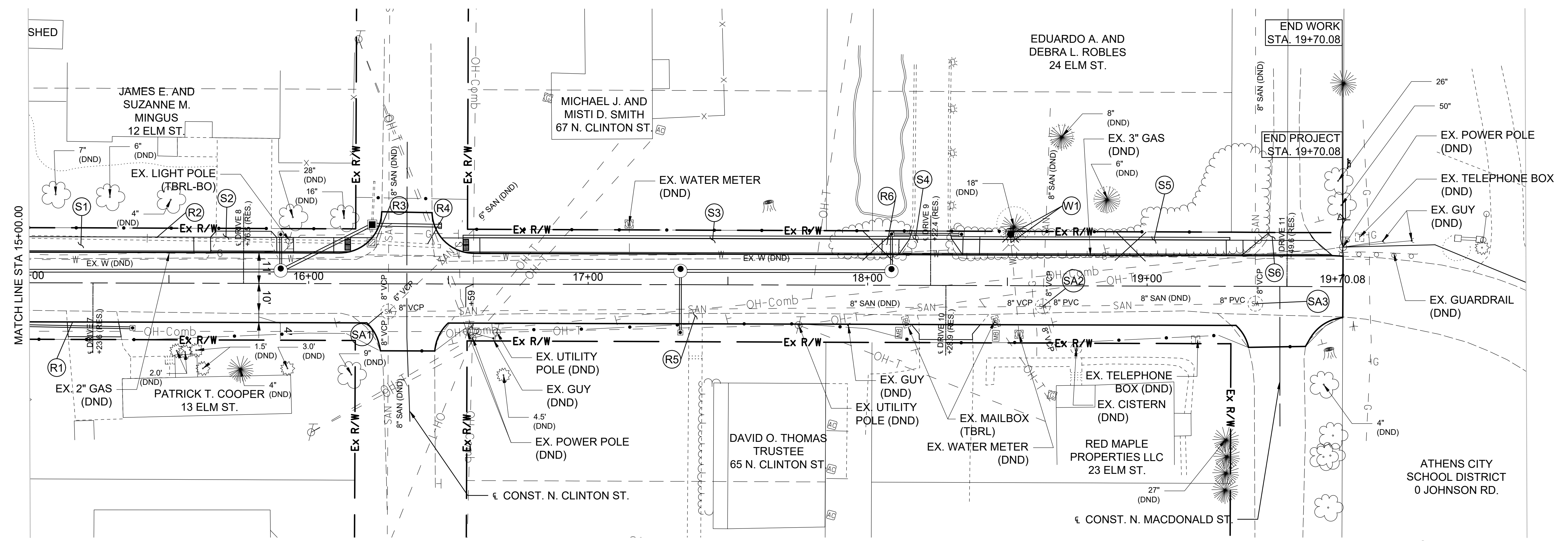
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REF NO.	STATION		SIDE	202	202	202		202	254	452	608	608	608	608	638																										
	FROM	TO		WALK REMOVED SF	CURB & GUTTER REMOVED FT	PIPE REMOVED, 24" AND UNDER, AS PER PLAN FT		CATCH BASIN REMOVED EACH	PAVEMENT PLANING, ASPHALT CONCRETE 1-1/2" DEPTH SY	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY	5" CONCRETE WALK SF	7" CONCRETE WALK SF	CONCRETE STEPS, TYPE B FT	CURB RAMP SF	VALVE BOX ADJUSTED TO GRADE EACH																										
R1	10+44	10+85	L & R		82																																				
R2	11+03	11+05	R	16							7																														
R3	10+34	11+78	L			146																																			
R4	11+63	11+87	R			24																																			
R5	11+78		L					1																																	
R6	11+78		L			57																																			
R7	12+35		L					1																																	
R8	12+35	13+09	L			74																																			
R9	12+67	12+69	L	15							8	5																													
R10	13+09		L					1																																	
R11	13+09	13+37	L			28																																			
R12	13+37		L					1																																	
R13	13+43		R			2		1																																	
R14	13+43	14+13	R			70																																			
R15	13+37	14+53	L			116																																			
R16	14+13		R					1																																	
R17	14+26	14+29	R	28							16																														
R18	14+13	14+77	R			64																																			
R19	14+53		L			2		1																																	
R20	14+53	15+00	L			47																																			
S1	10+20	13+27	L	50							50																														
S2	10+48	11+00	L								228		30																												
S3	11+00	11+60	L							19		302																													
S4	11+60	12+00	L								141		60																												
S5	12+00	12+26	L							8		129																													
S6	12+26	13+15	L								369		60																												
S7	13+36	13+85	L								170		61																												
S8	13+85	14+52	L							5		336																													
S9	14+52	15+00	L								208		30																												
W1	13+38		L											1																											
P1	10+18	10+48							111																																
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				109	82	630		7	111	32	1197	767	5	241	1																										

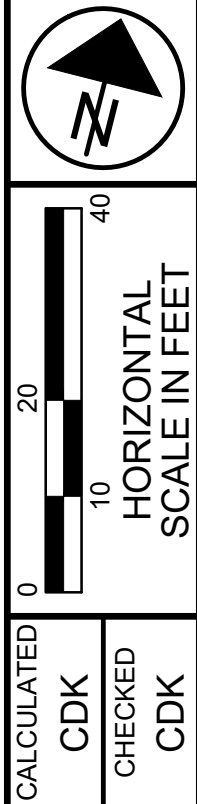
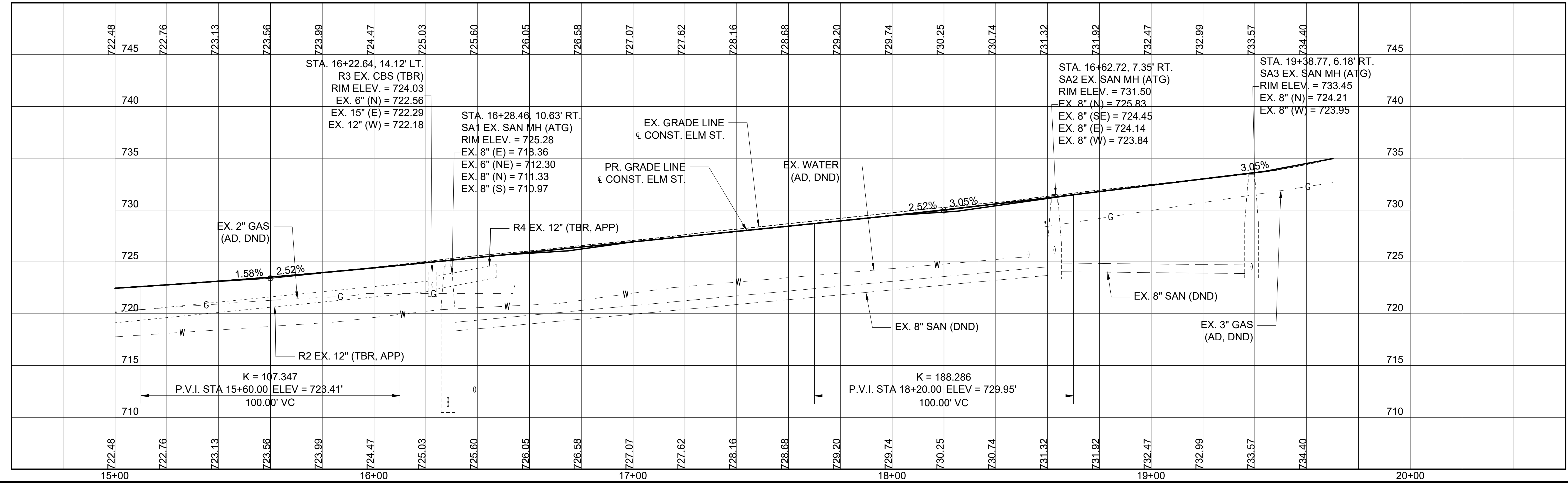
ESTIMATED QUANTITIES

ATH- ELM STREET

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**LEGEND**  
 TBR = TO BE REMOVED  
 ATG = ADJUST TO GRADE  
 TBRL = TO BE RELOCATED  
 DND = DO NOT DISTURB  
 PA = PREVIOUSLY ABANDONED  
 AD = ASSUMED DEPTH  
 BO = BY OTHERS



CALCULATED CDK  
 CHECKED CDK

PLAN & PROFILE - ELM ST.  
 STA. 15+00.00 TO END WORK

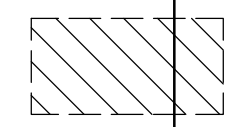
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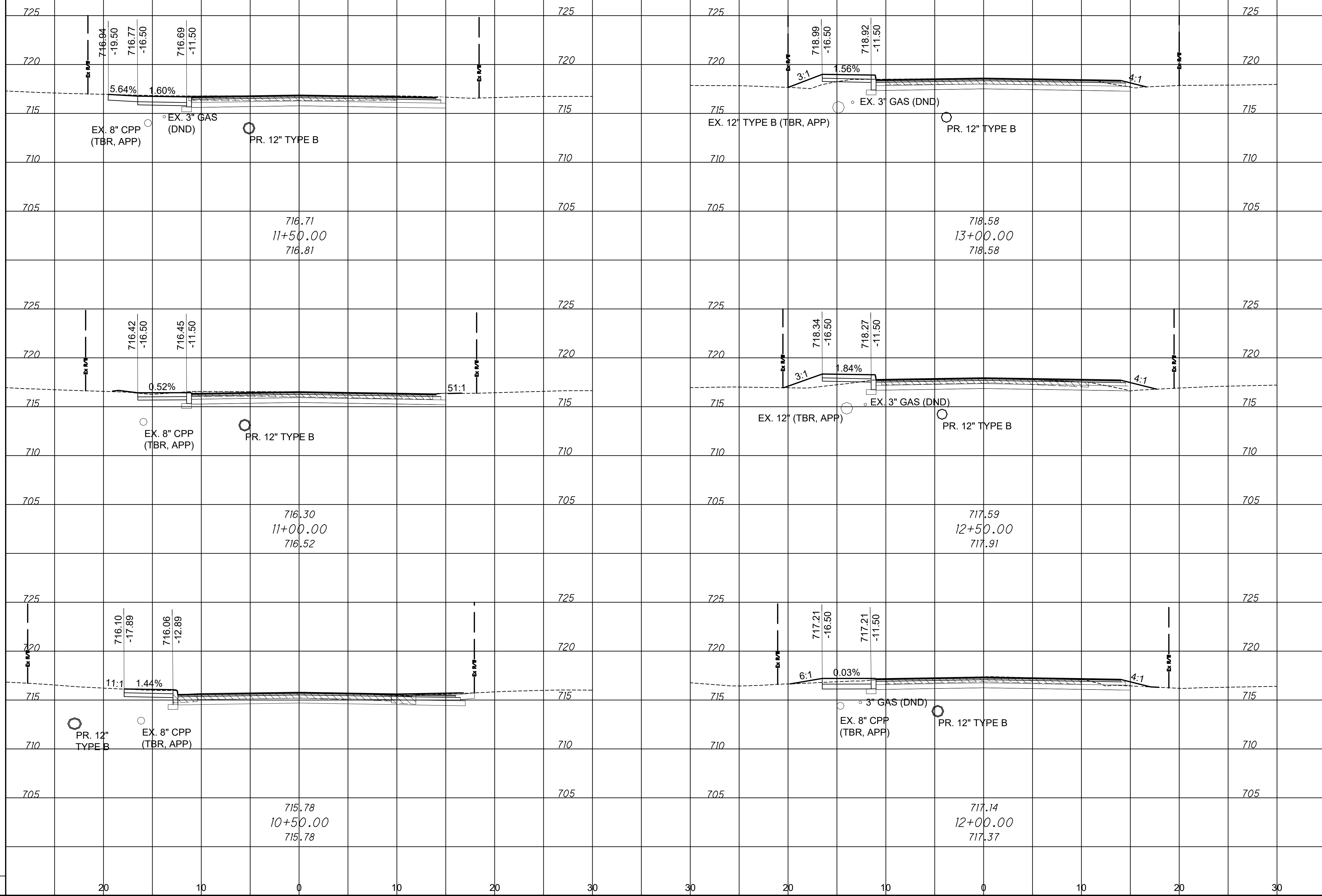


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SEEDING  
END SQ.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
CDK  
CHECKED  
CDK

 - PAVEMENT REMOVED

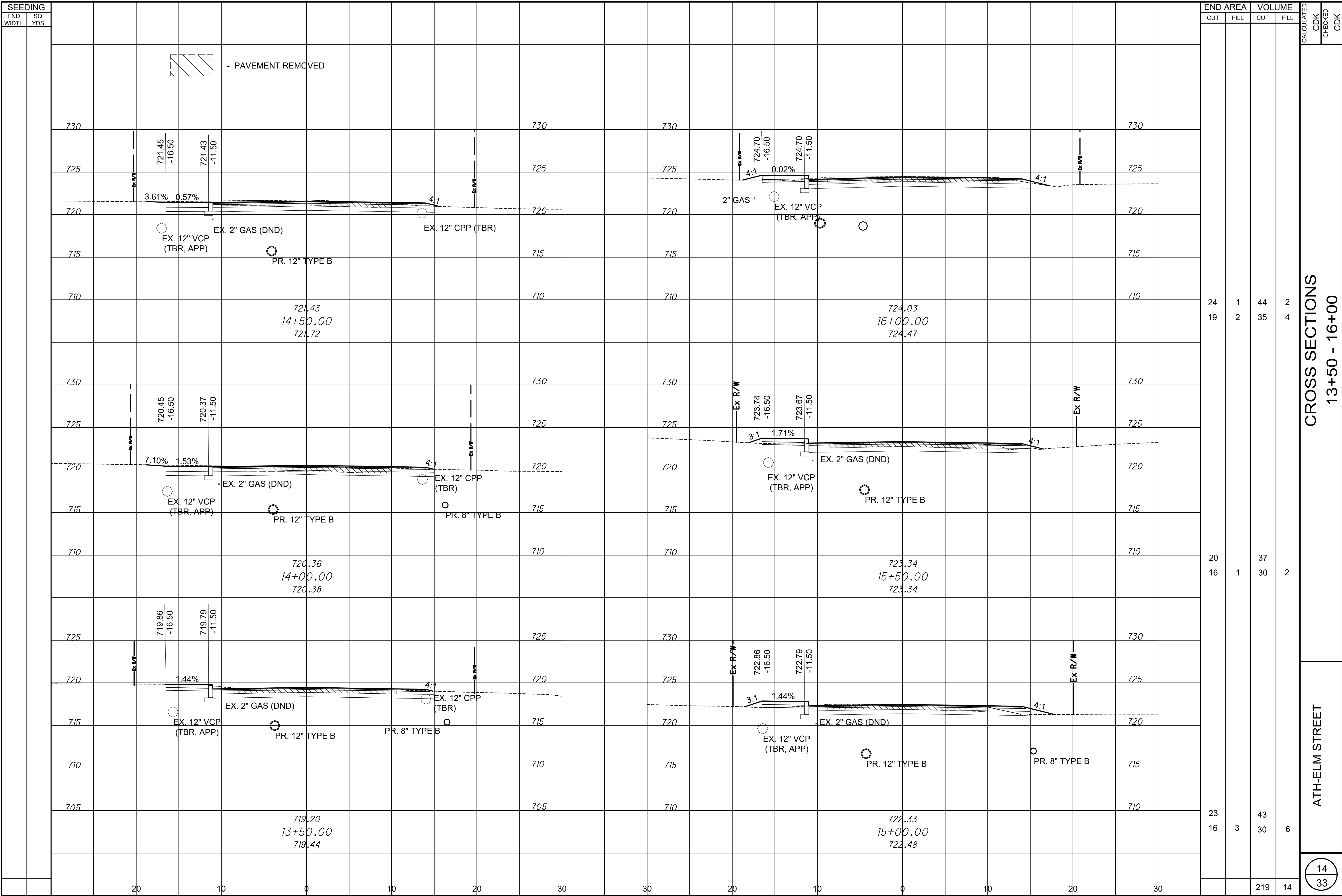


STATION	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
11+50.00	19	17	35	7
12+50.00	21	14	39	11
12+00.00	19	2	35	4
<b>TOTAL</b>	<b>59</b>	<b>33</b>	<b>109</b>	<b>22</b>

**CROSS SECTIONS  
10+50 - 13+00**

**ATHELM STREET**

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SEEDING	
END WIDTH	SQ. YDS.

END AREA	VOLUME		CALCULATED CDK	CHECKED CDK
	CUT	FILL		
24	1	44	2	
19	2	35	4	
20	1	37	2	
16	1	30	2	
23	3	43	6	
16	3	30	6	
		219	14	

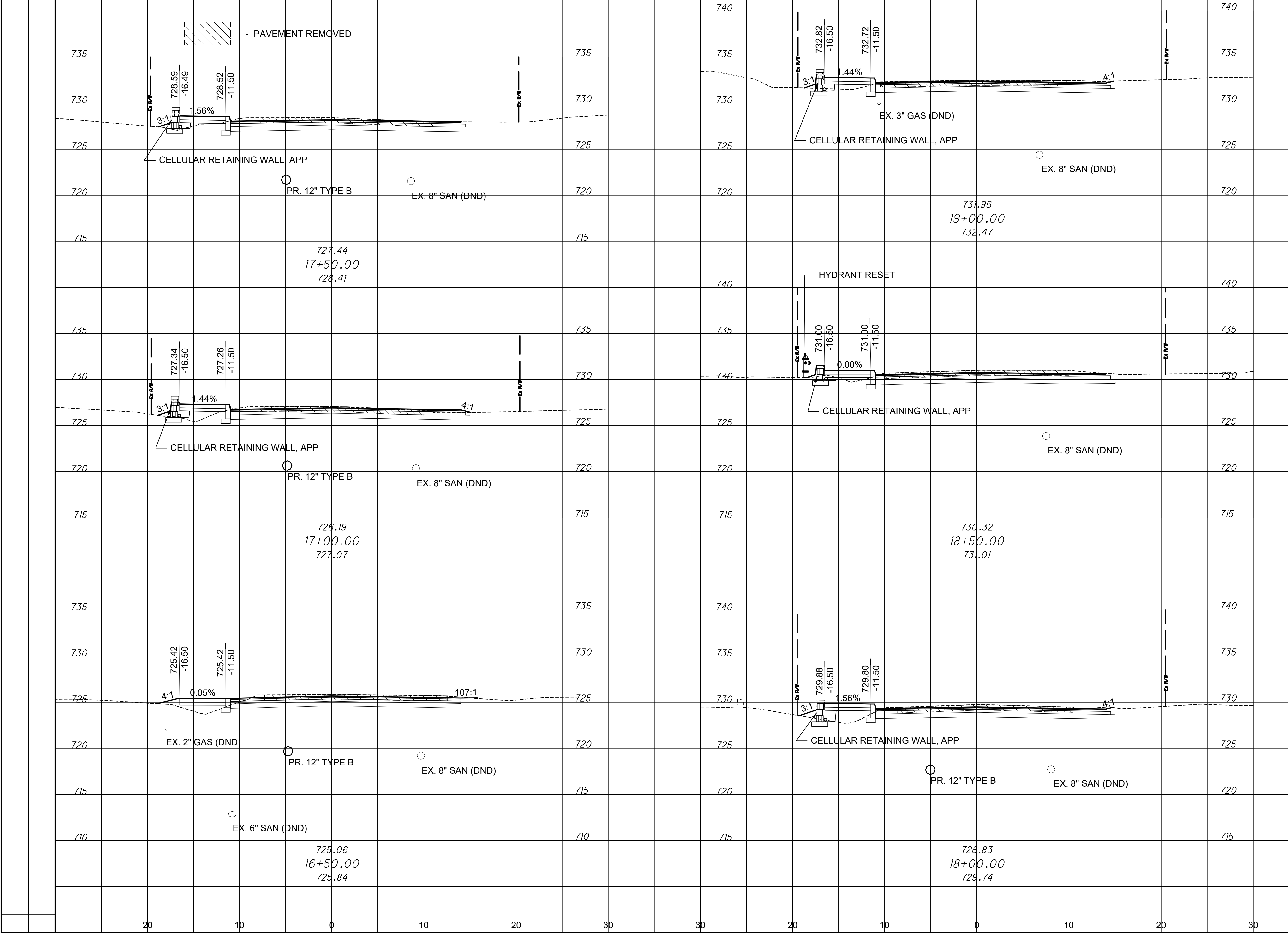
CROSS SECTIONS  
13+50 - 16+00

ATHELM STREET

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SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CDK CHECKED CDK



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
16+50.00	23	1	43	2
17+00.00	31	2	57	4
18+50.00	24	3	44	6
19+00.00	20	1	37	2
TOTAL	20	4	37	7
	20	5	37	9
			255	30

CROSS SECTIONS  
16+50 - 19+00

ATH-HELM STREET

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SEEDING

END SQ.  
WIDTH YDS.

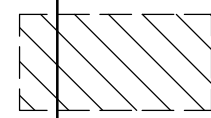
END AREA

CUT FILL

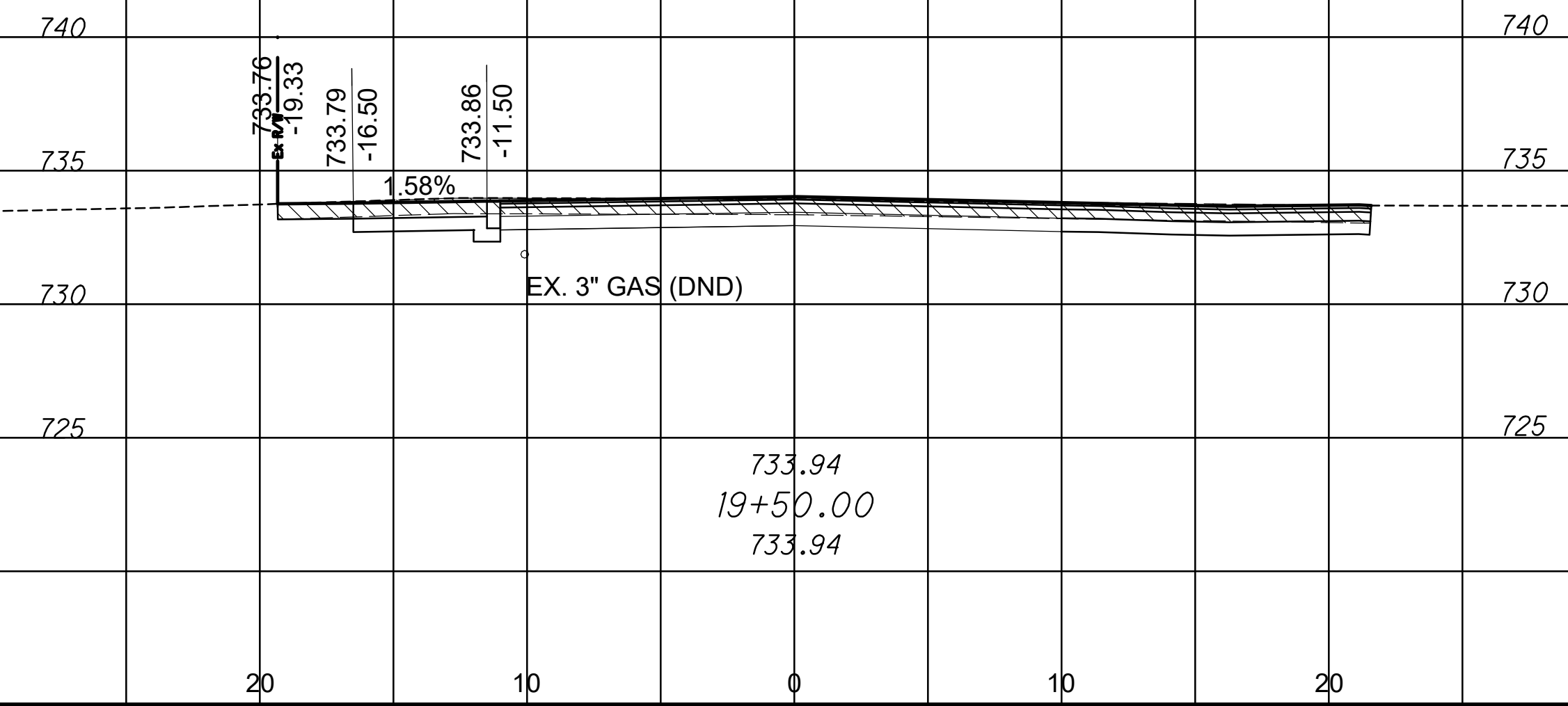
VOLUME

CUT FILL

CALCULATED  
CDK  
CHECKED  
CDK



- PAVEMENT REMOVED



733.94  
19+50.00  
733.94

20

37

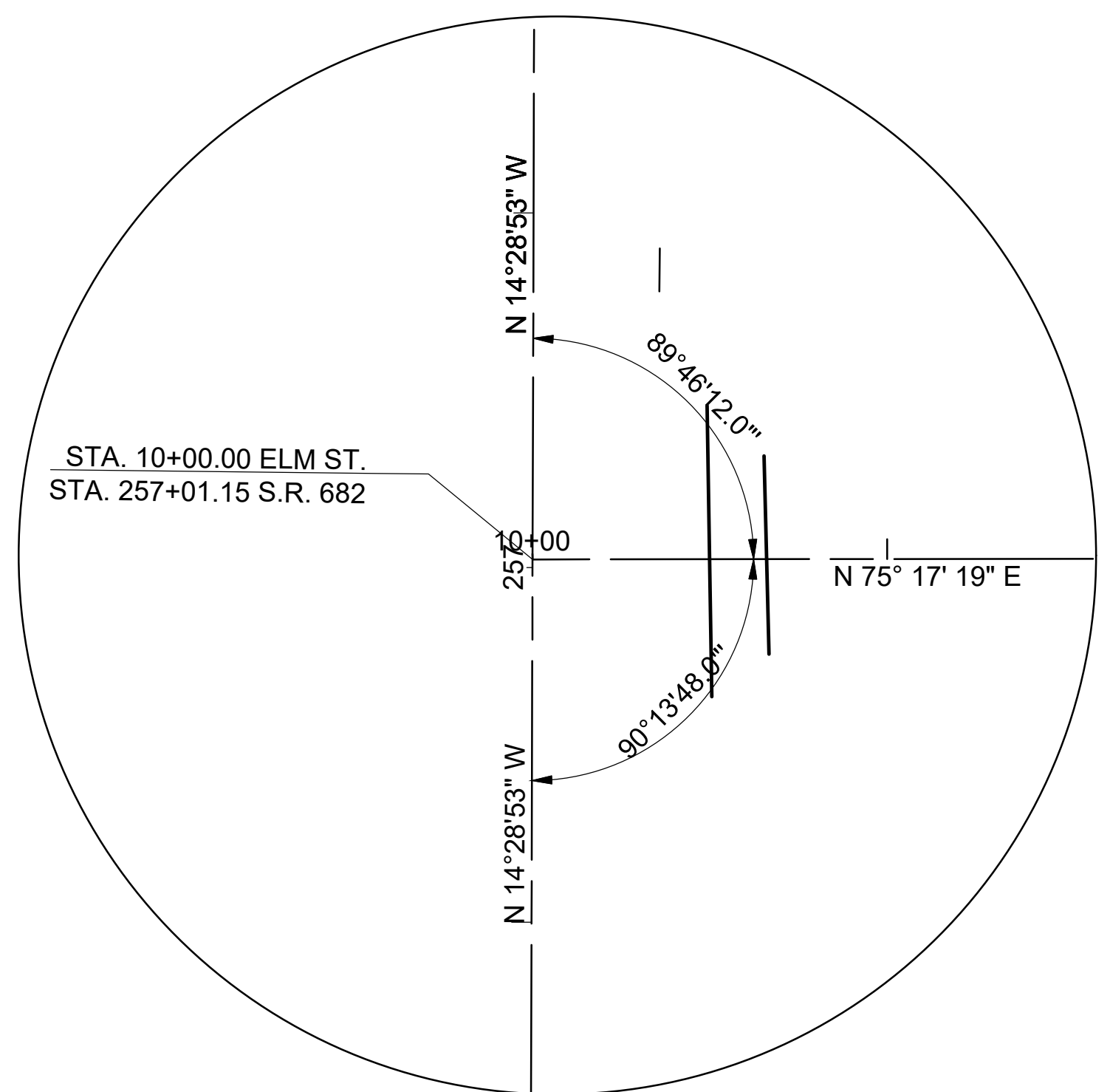
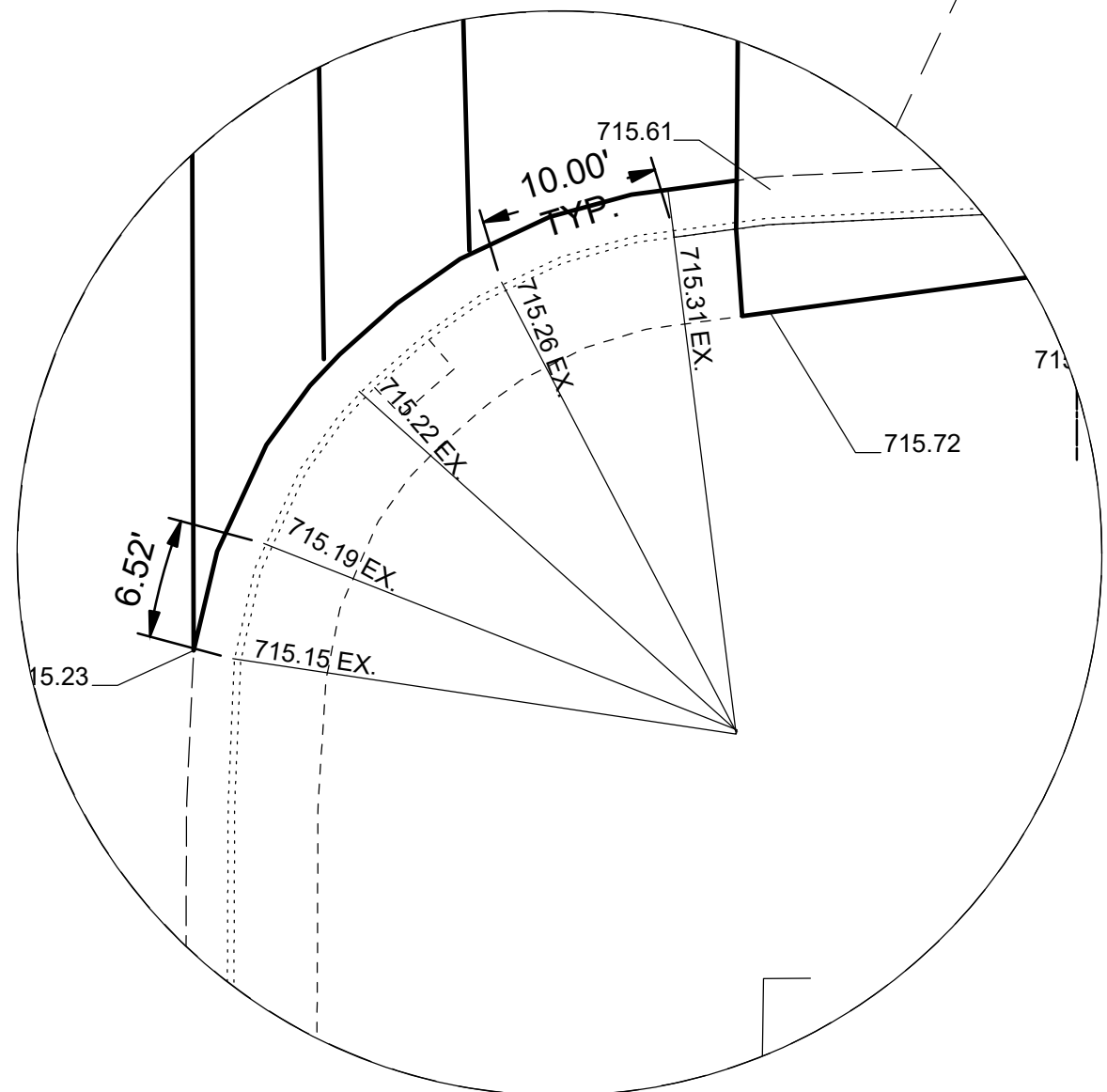
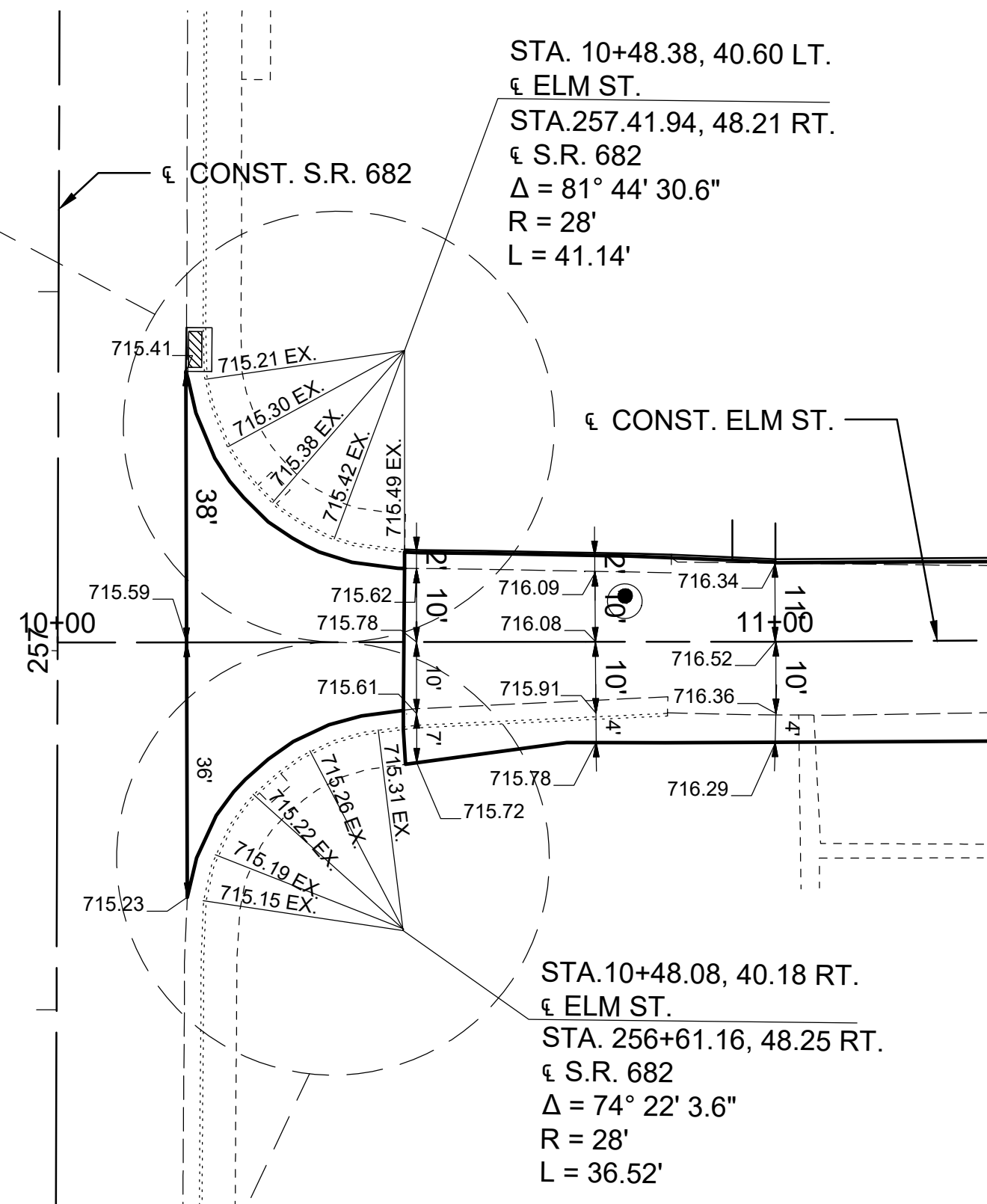
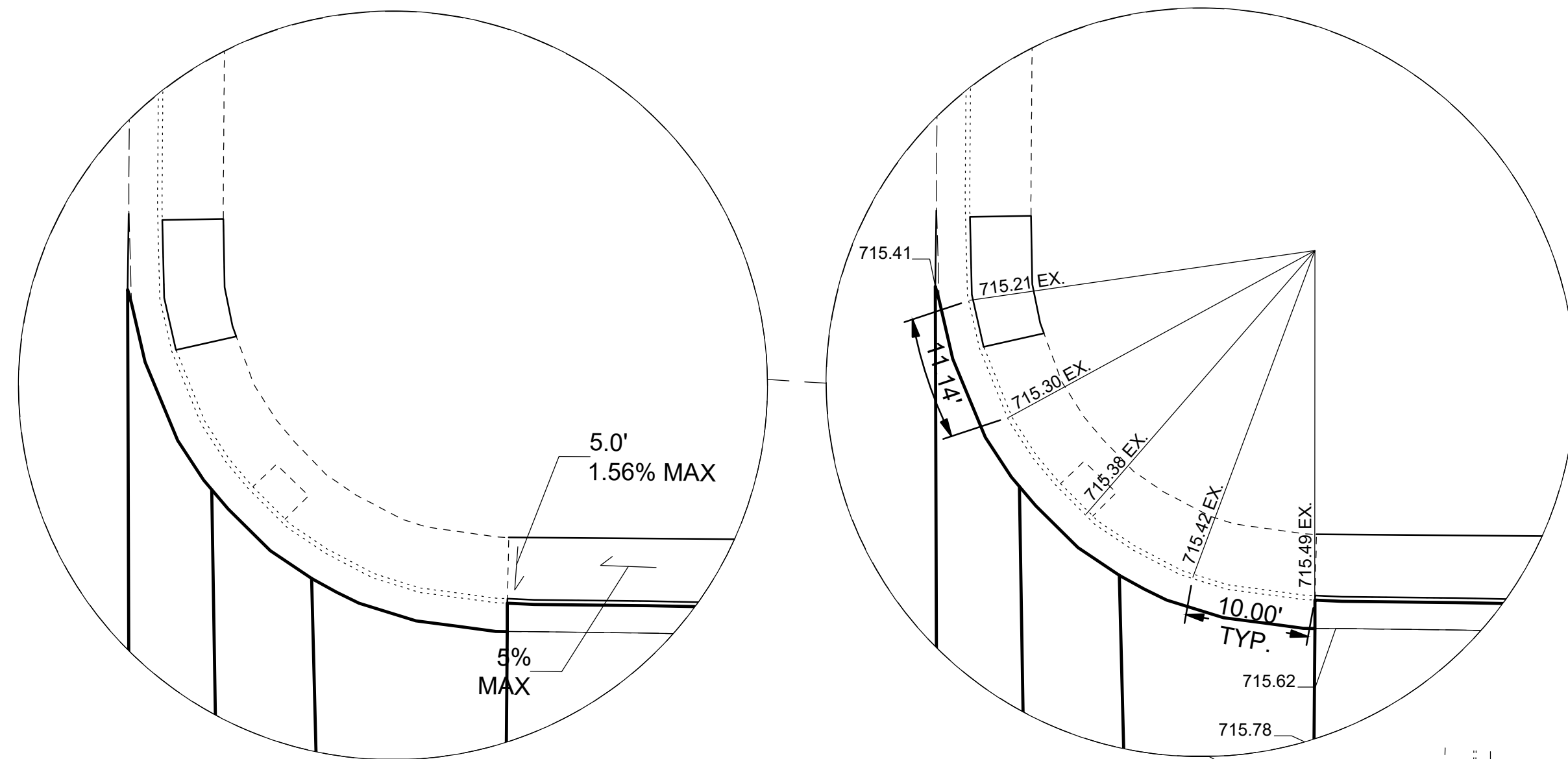
255

CROSS SECTIONS  
19+50

ATH-ELM STREET

16  
33





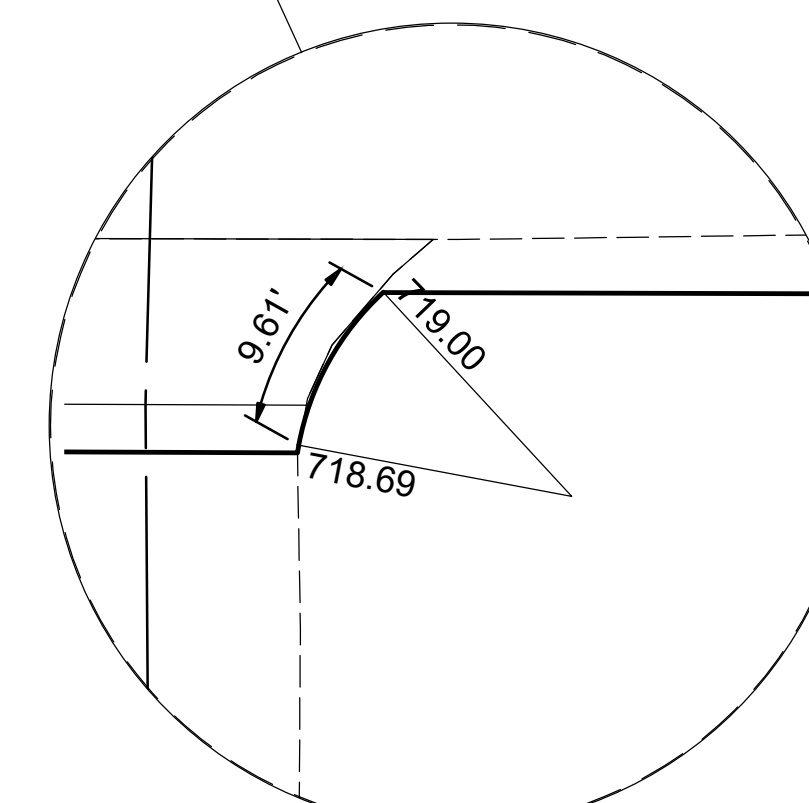
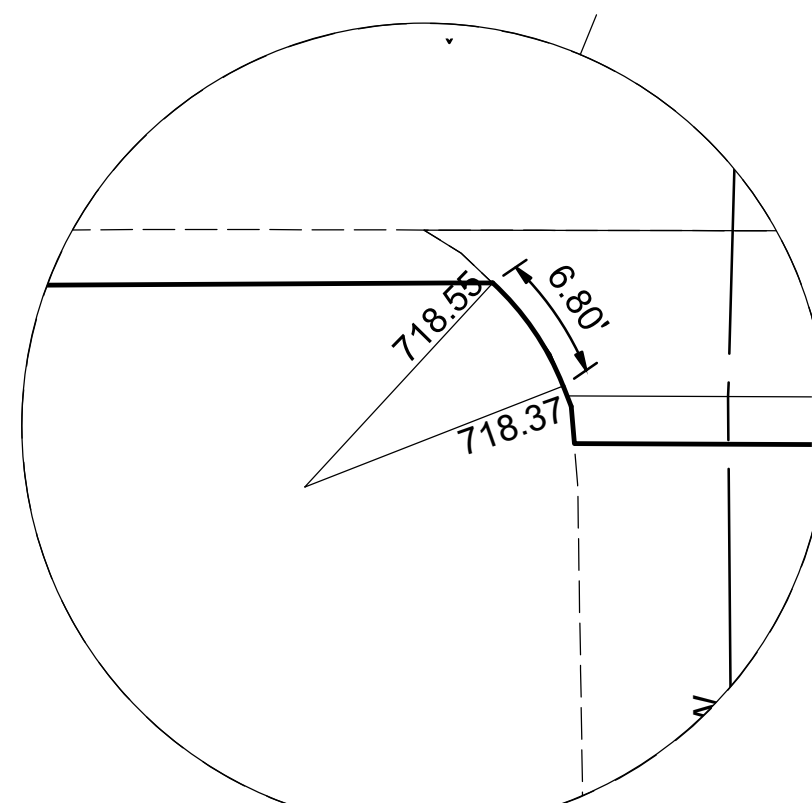
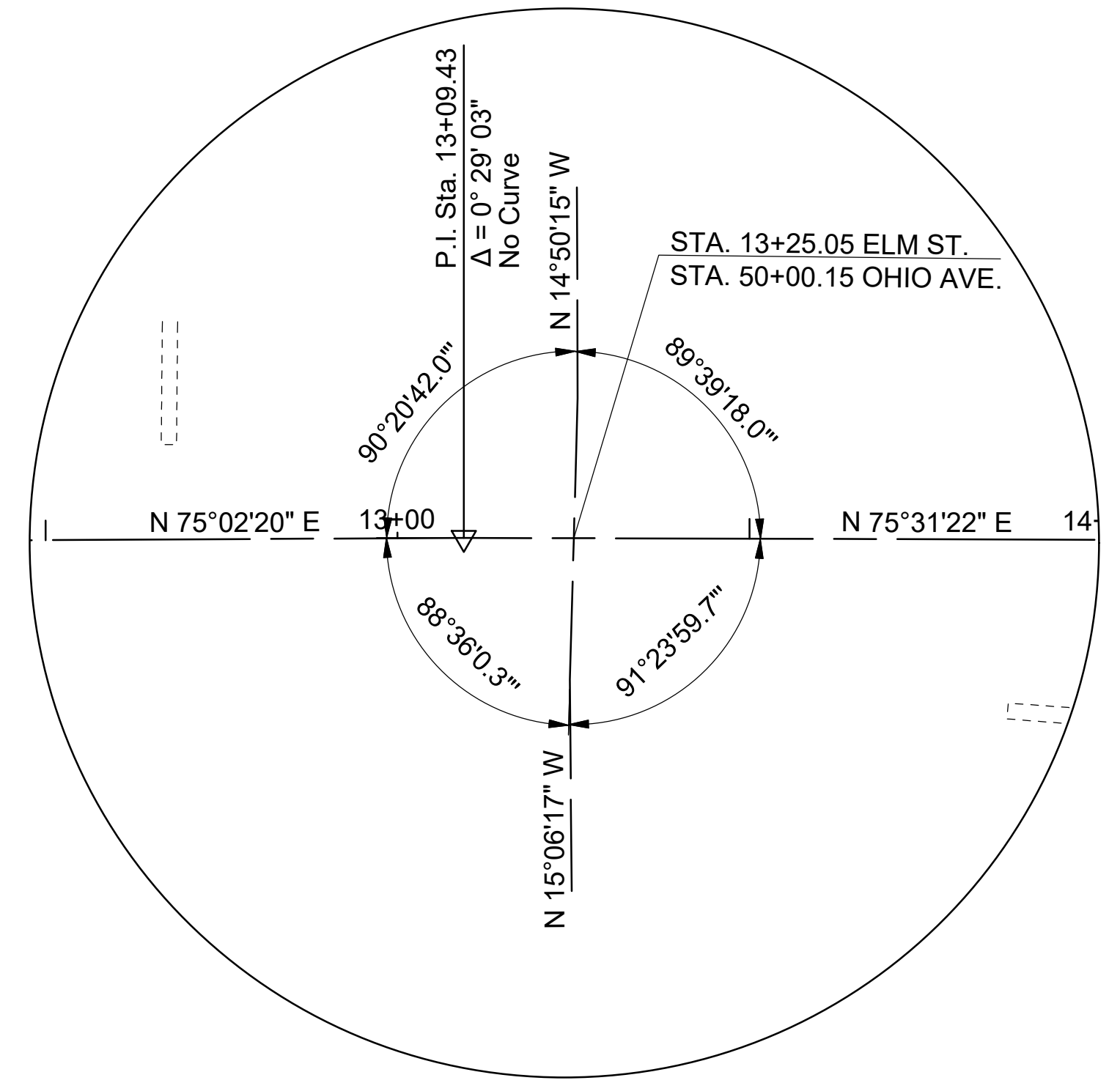
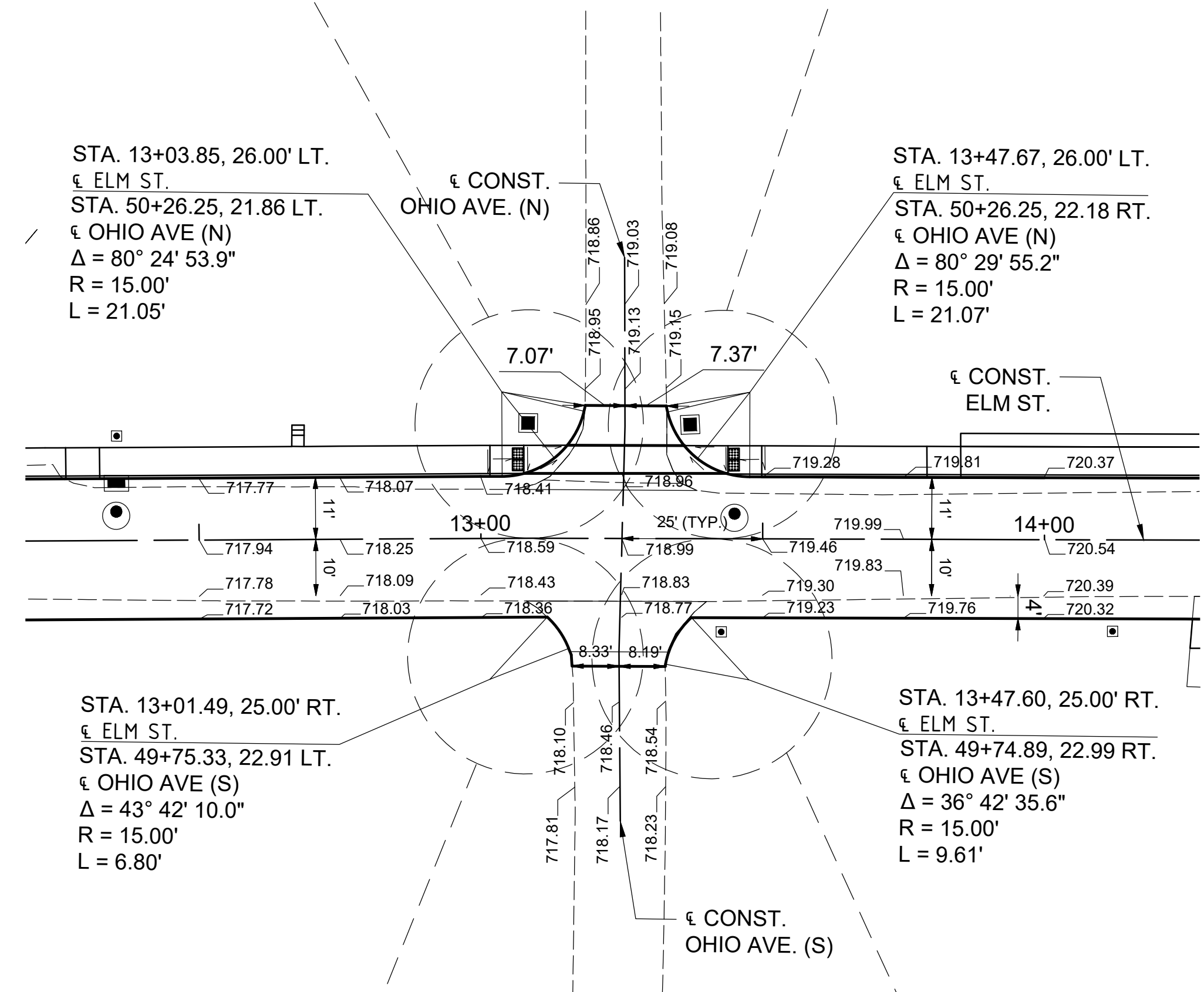
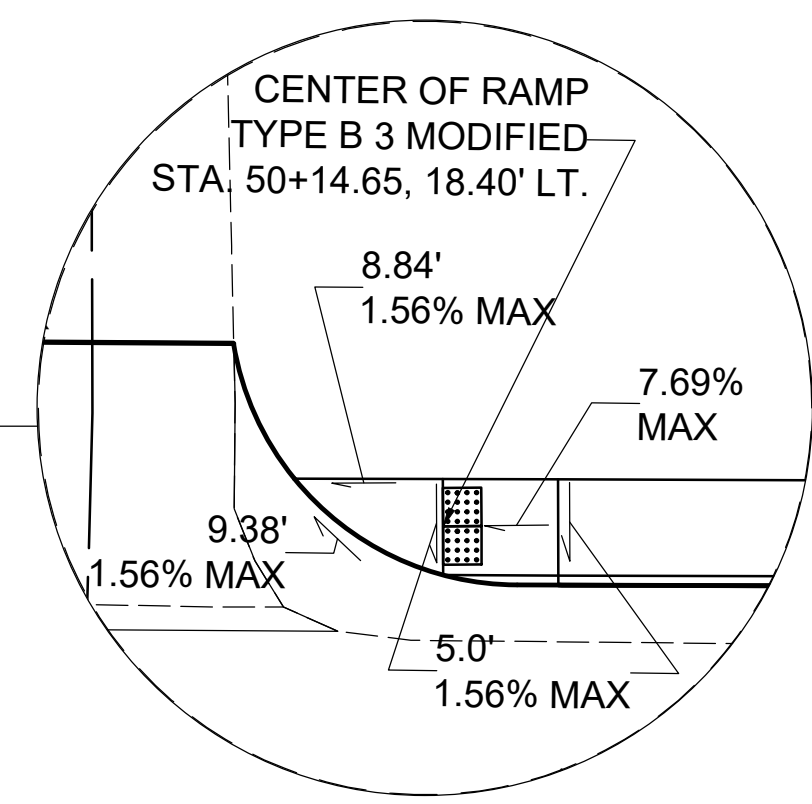
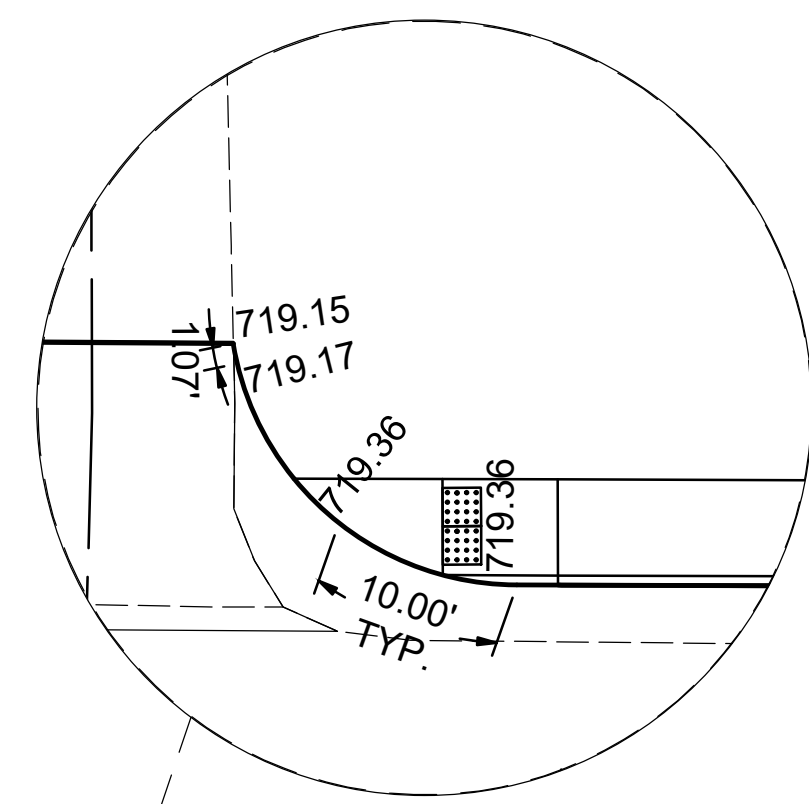
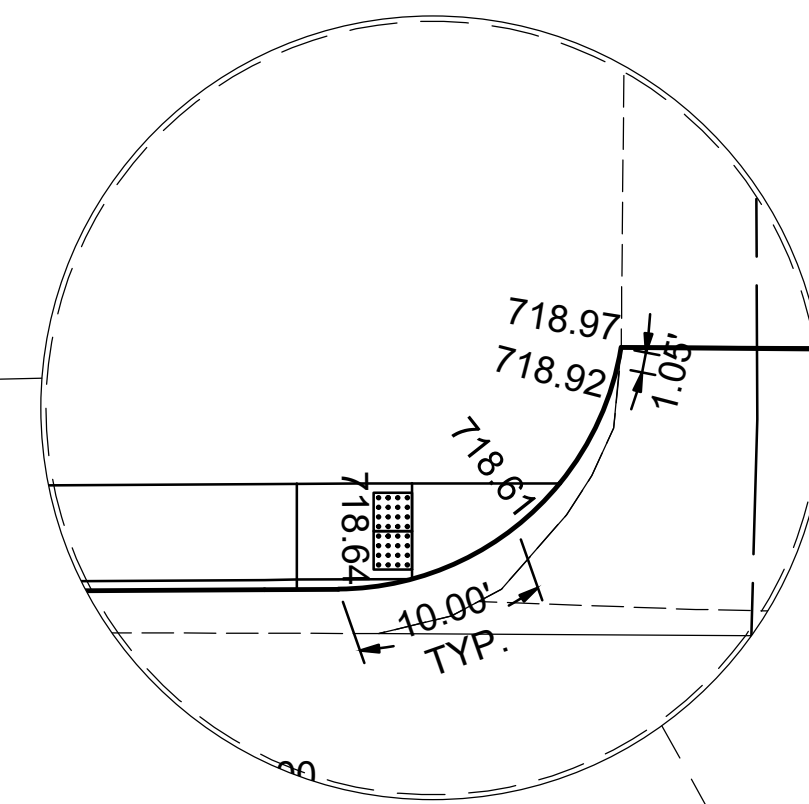
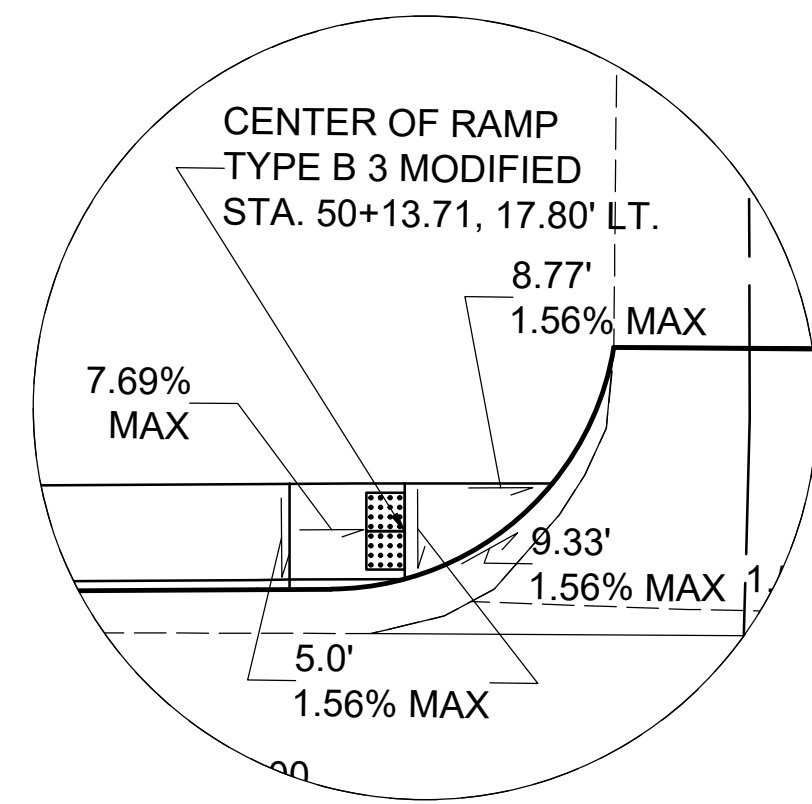
NOTES:  
1. ELEVATIONS ARE AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

CALCULATED CDK  
CHECKED CDK

HORIZONTAL SCALE IN FEET

INTERSECTION DETAILS  
ELM ST. & S.R. 682

ATHELM STREET



NOTES:  
 1. ELEVATIONS ARE AT THE EDGE OF PAVEMENT  
 UNLESS OTHERWISE NOTED.

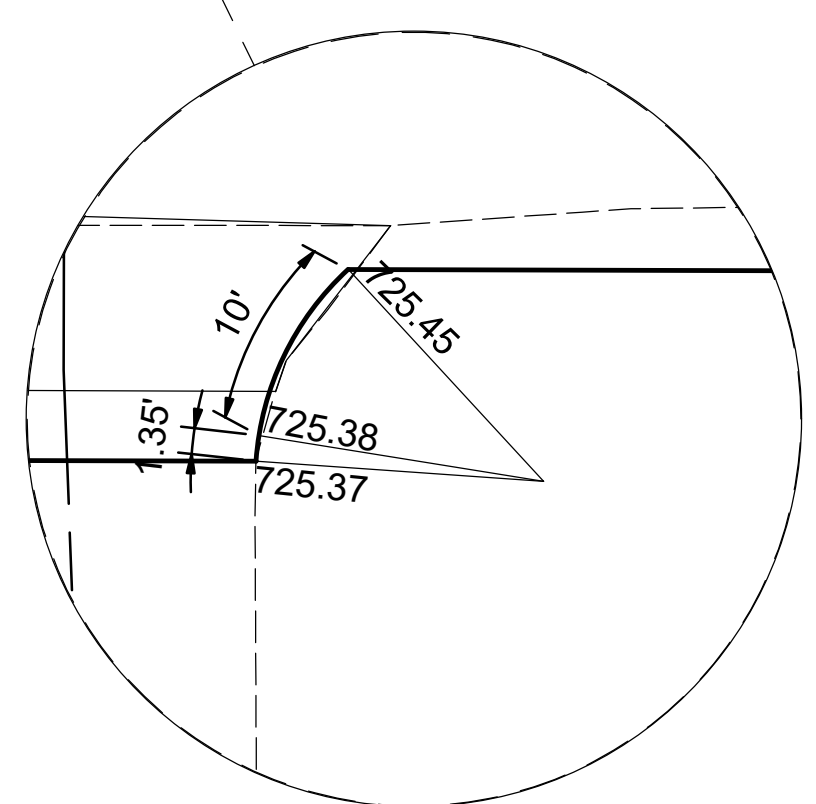
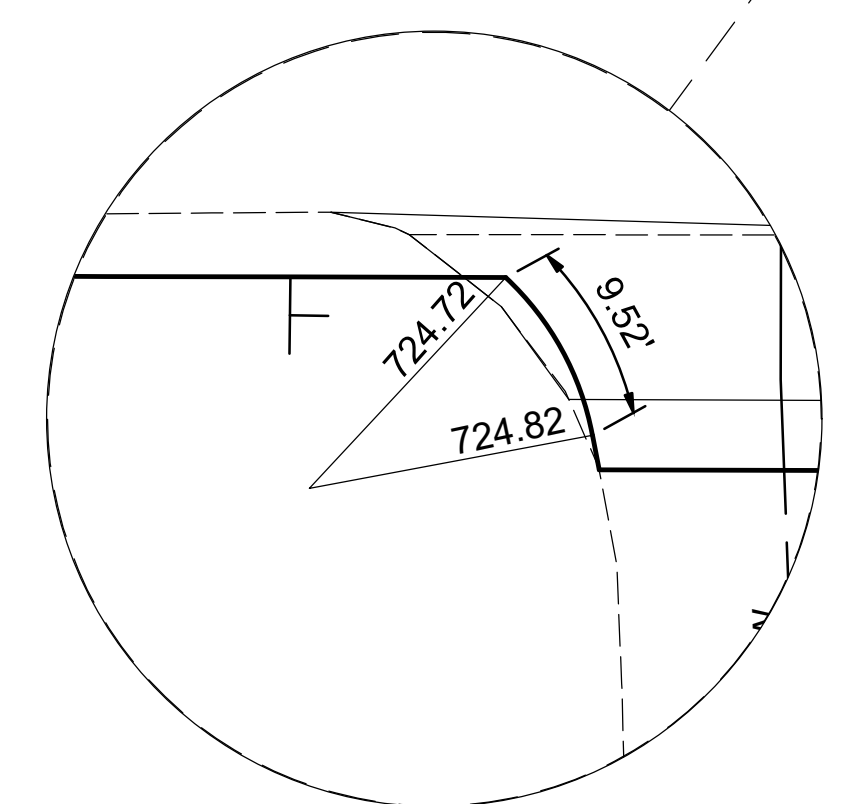
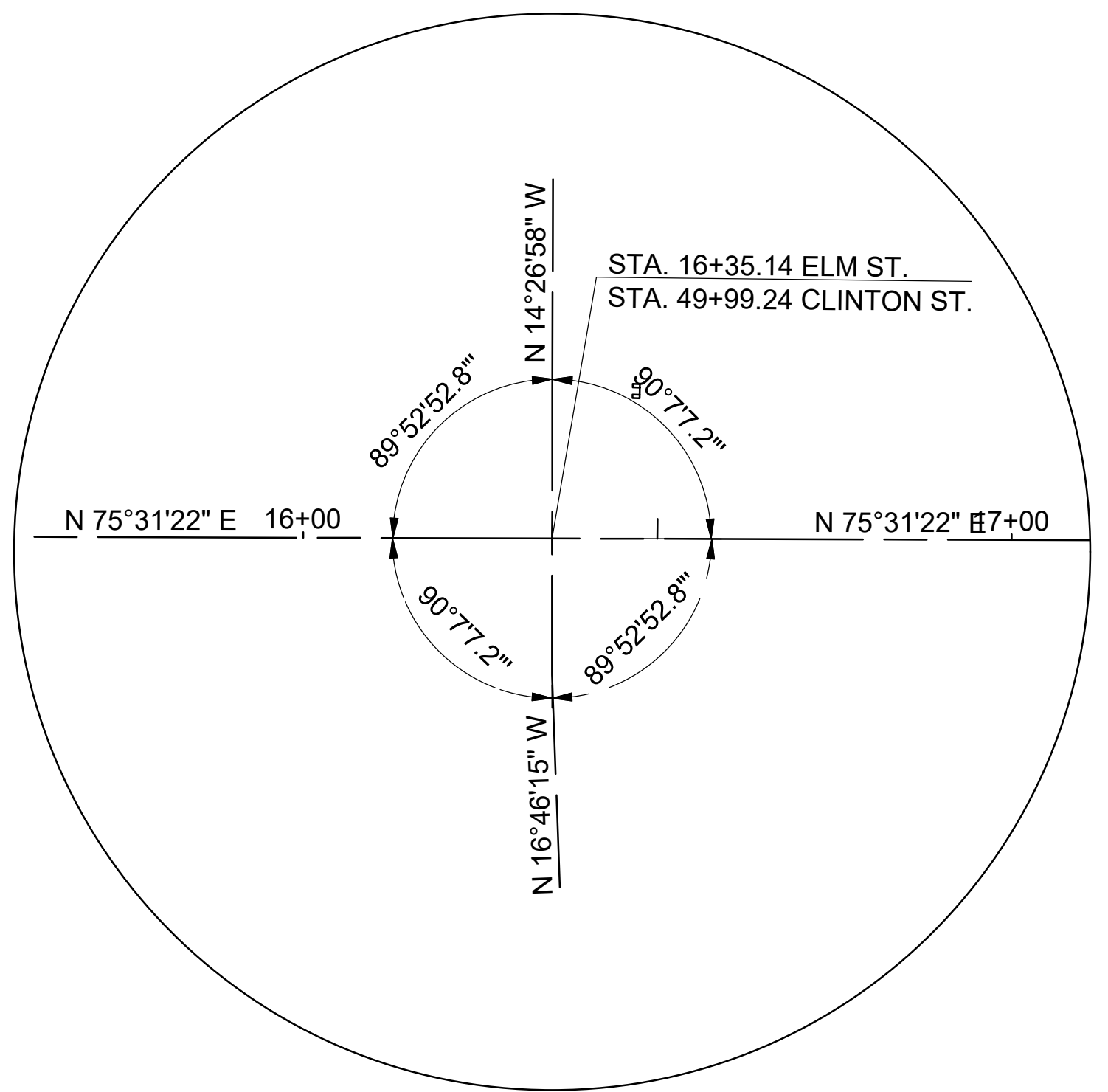
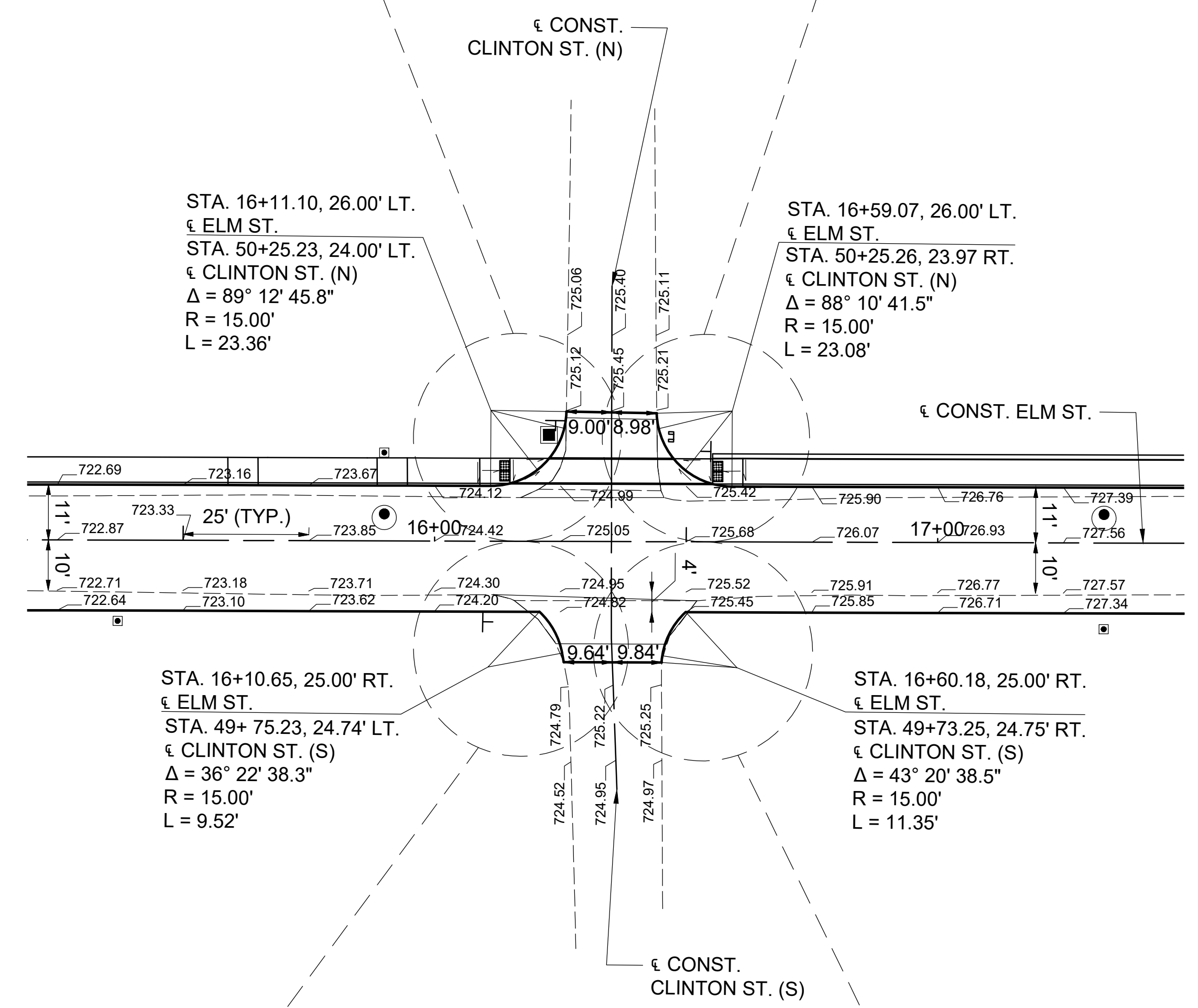
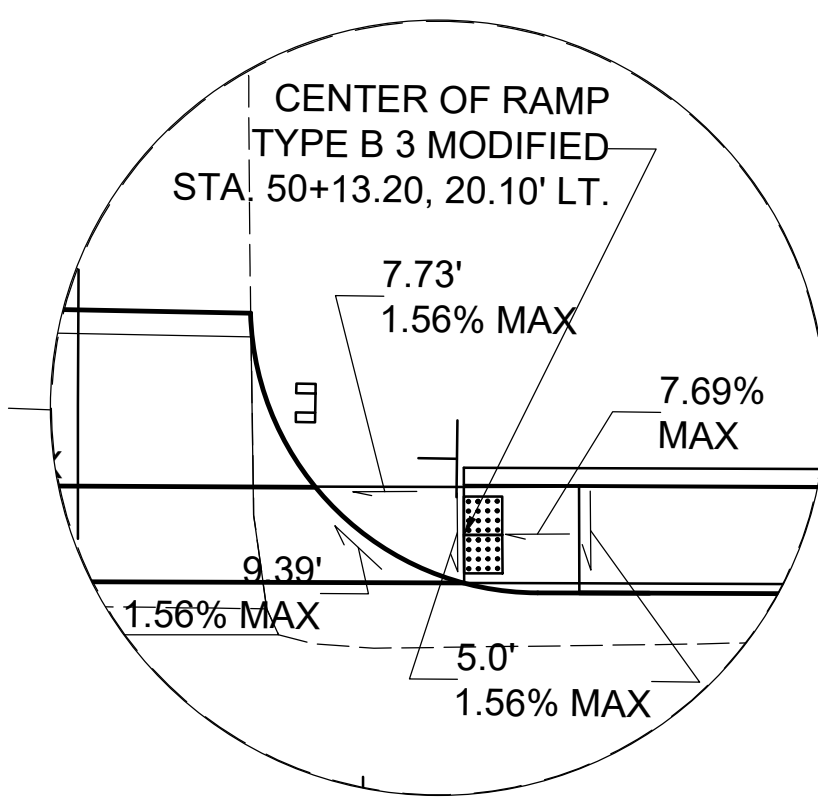
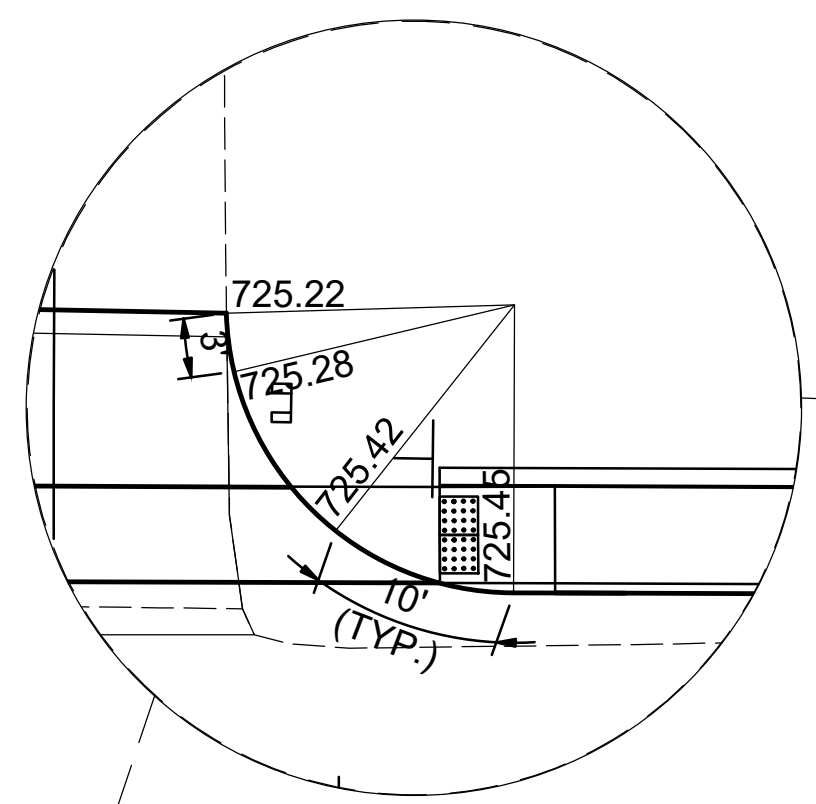
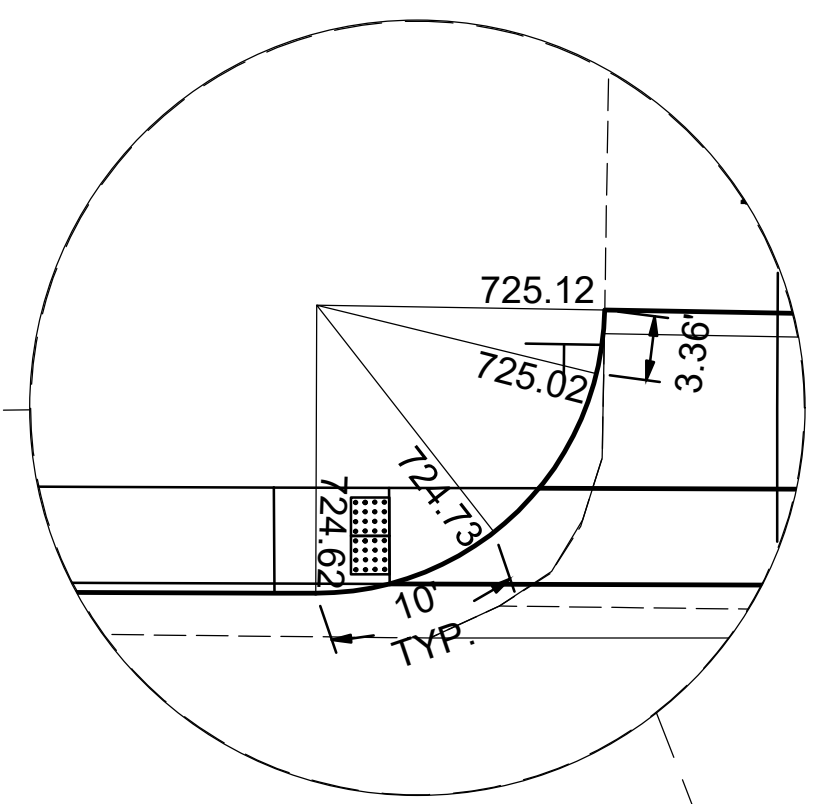
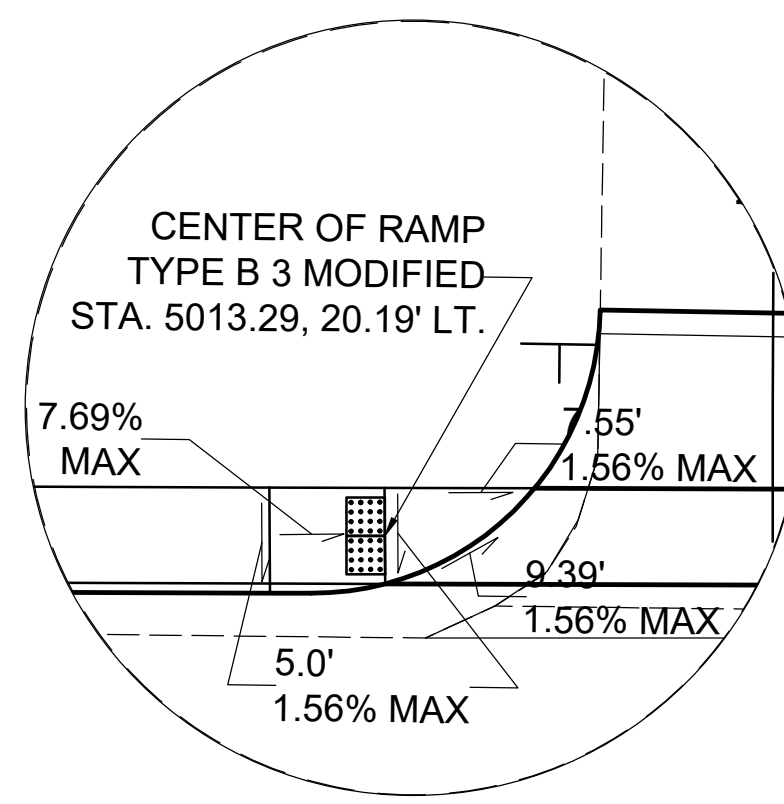
CALCULATED CDK  
 CHECKED CDK

HORIZONTAL SCALE IN FEET

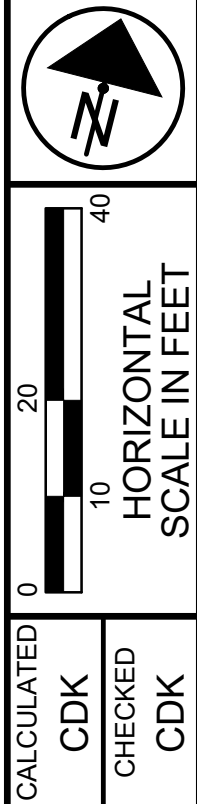
INTERSECTION DETAILS  
 ELM ST. & OHIO AVE.

ATHELM STREET

\\THEBUCKLEYGROUP\Buckley\_Share\Allocate\B\Allocate\2018 Projects\18280\AUTOCAD\PLAN\18280\_018\_ID.dwg 07-Jan-22 3:59 PM



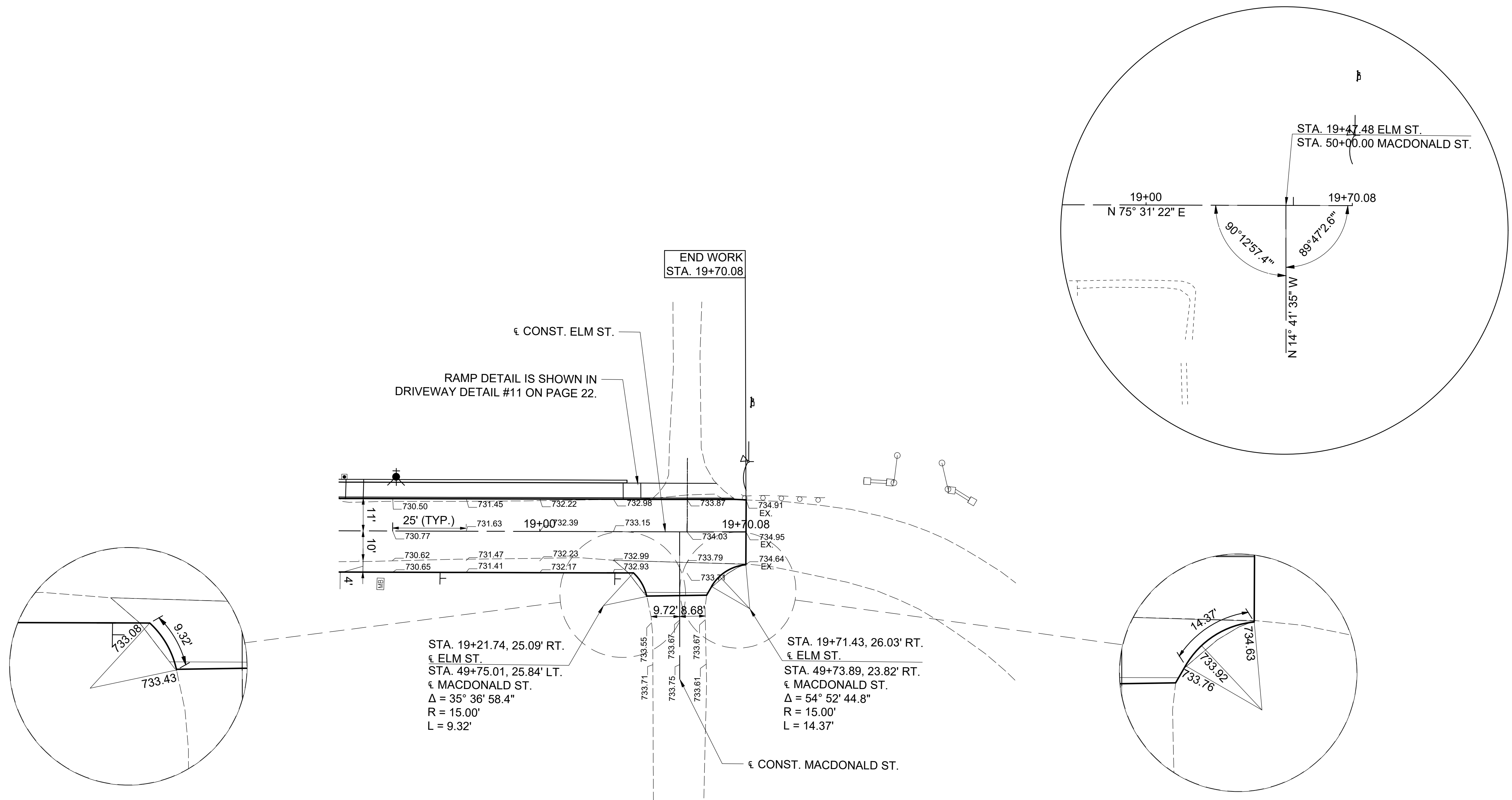
NOTES:  
1. ELEVATIONS ARE AT THE EDGE OF PAVEMENT  
UNLESS OTHERWISE NOTED.



INTERSECTION DETAILS  
ELM ST. & CLINTON ST.

ATH-ELM STREET

\\THEBUCKLEYGROUPOP\Buckley\_Share\Allocate\B\Allocate\2018 Projects\18280\AUTOCAD\PLAN\18280\_018\_ID.dwg 07-Jan-22 4:03 PM



NOTES:  
1. ELEVATIONS ARE AT THE EDGE OF PAVEMENT  
UNLESS OTHERWISE NOTED.

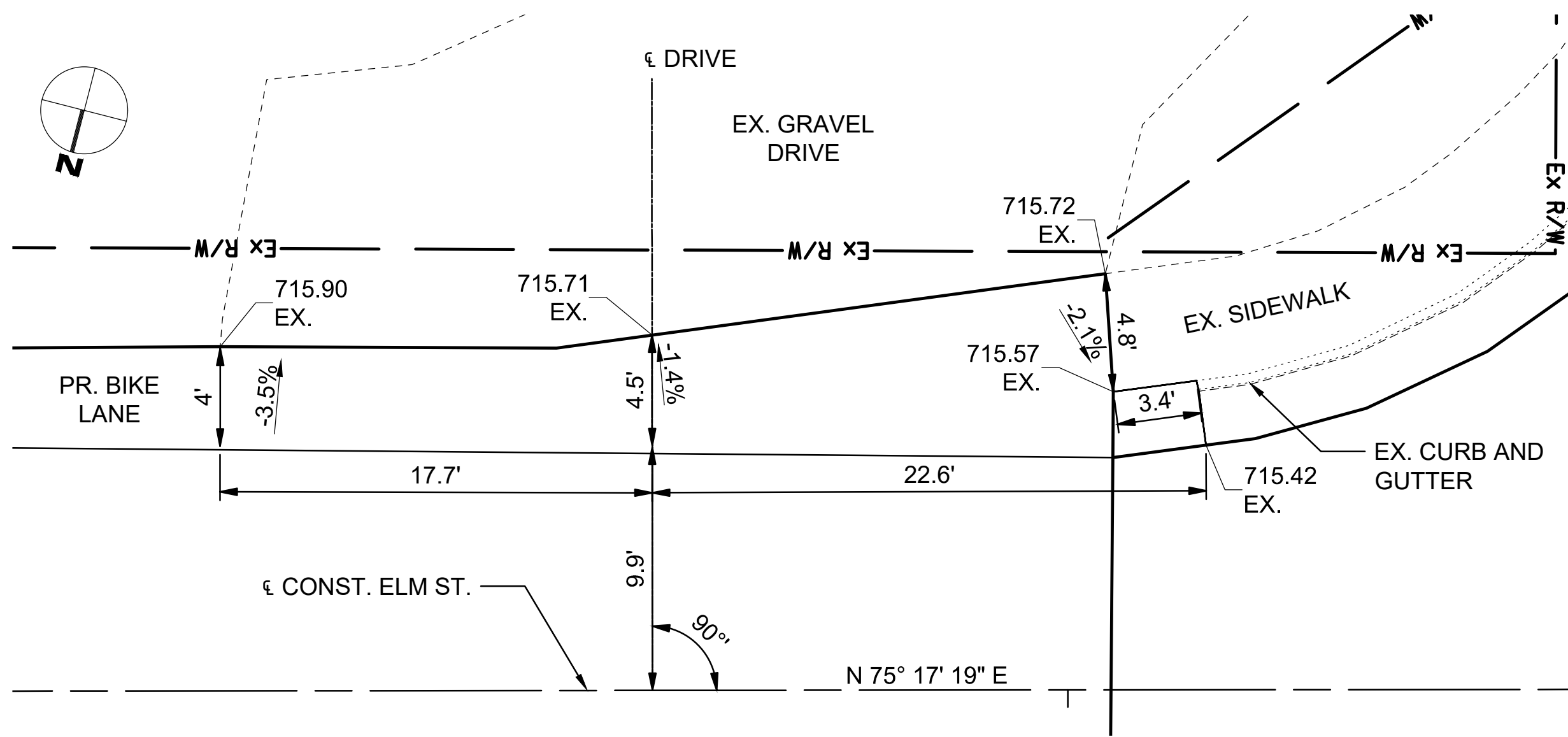
CALCULATED CDK  
CHECKED CDK

0 10 20 40  
HORIZONTAL SCALE IN FEET

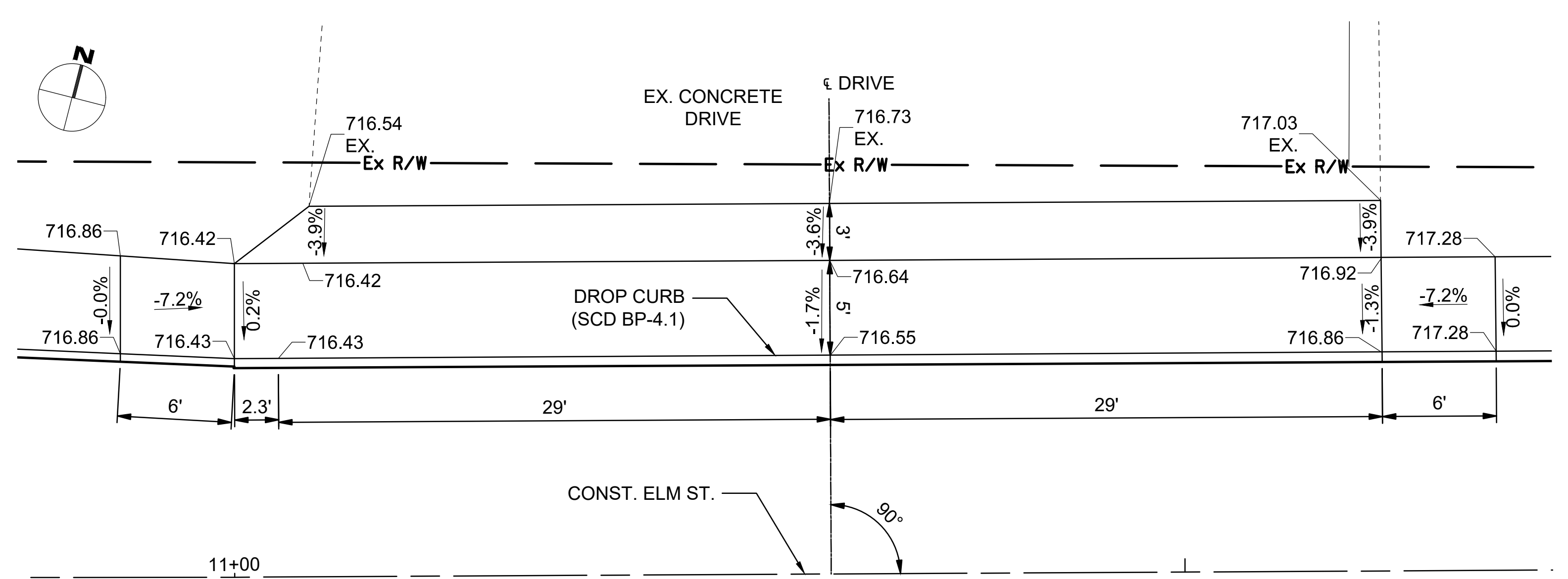
INTERSECTION DETAILS  
ELM ST. & MACDONALD ST.

ATHELM STREET

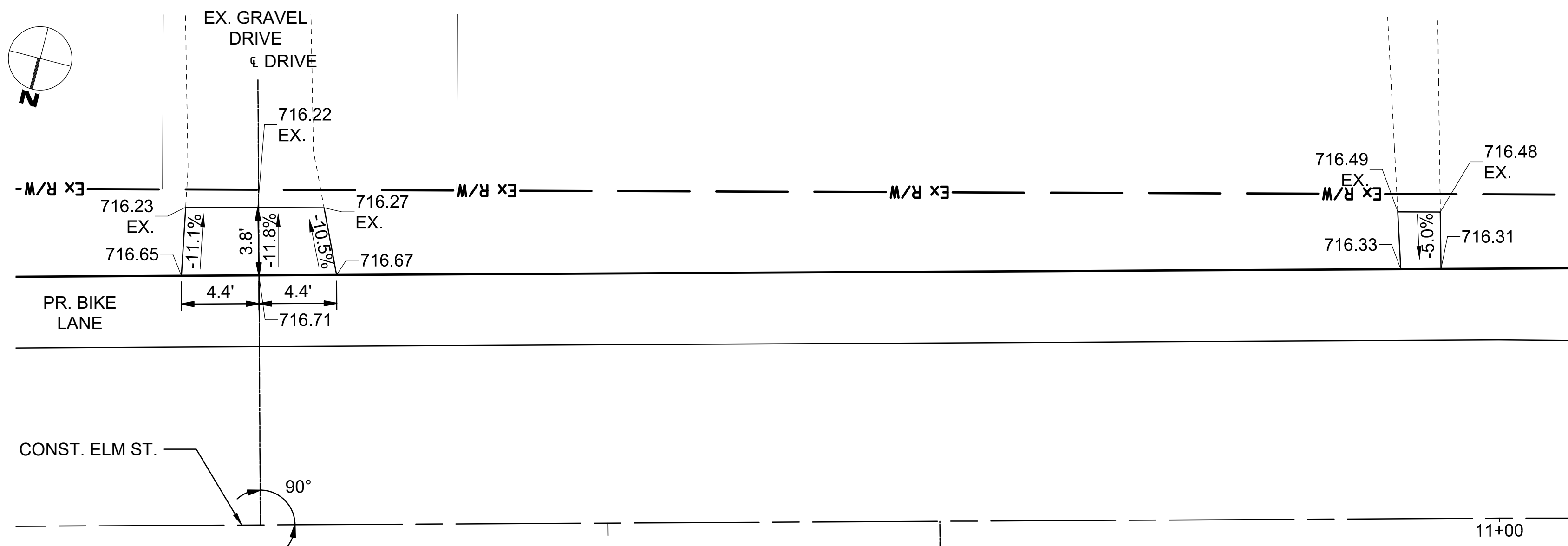
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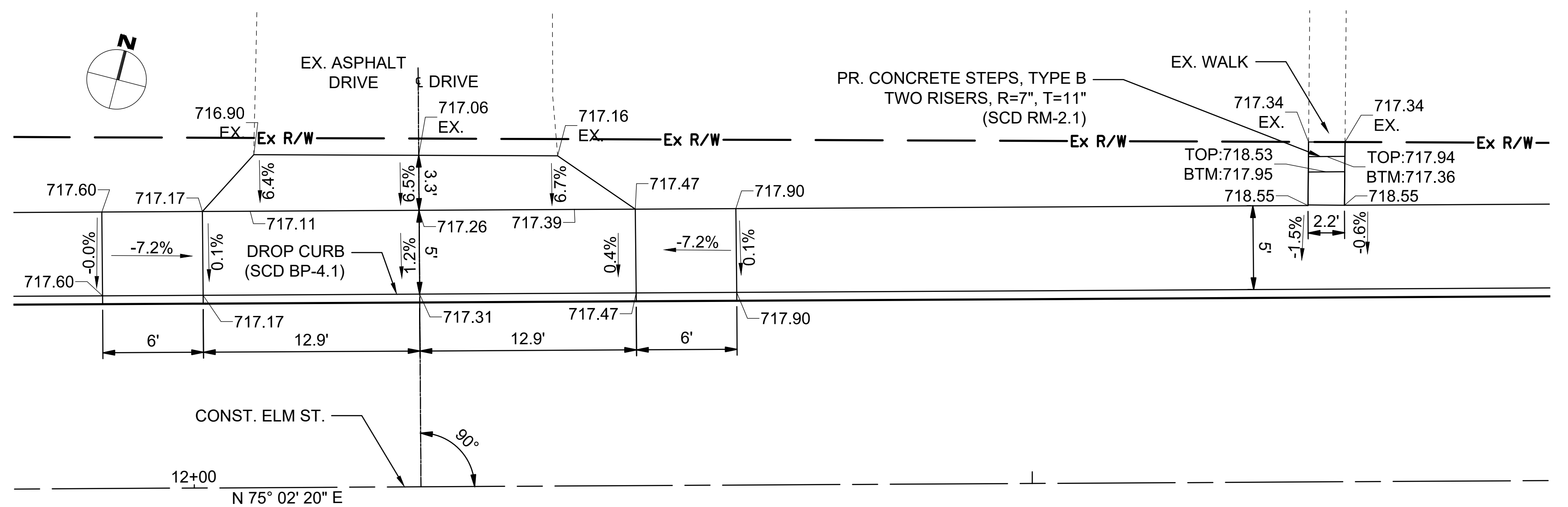
DRIVEWAY #1  
STA. 10+66.98 (RT)  
(COMMERCIAL)



DRIVEWAY #2  
STA. 11+31.38 (LT)  
(COMMERCIAL)



DRIVEWAY #3  
STA. 11+69.48 (RT)  
(RESIDENTIAL)



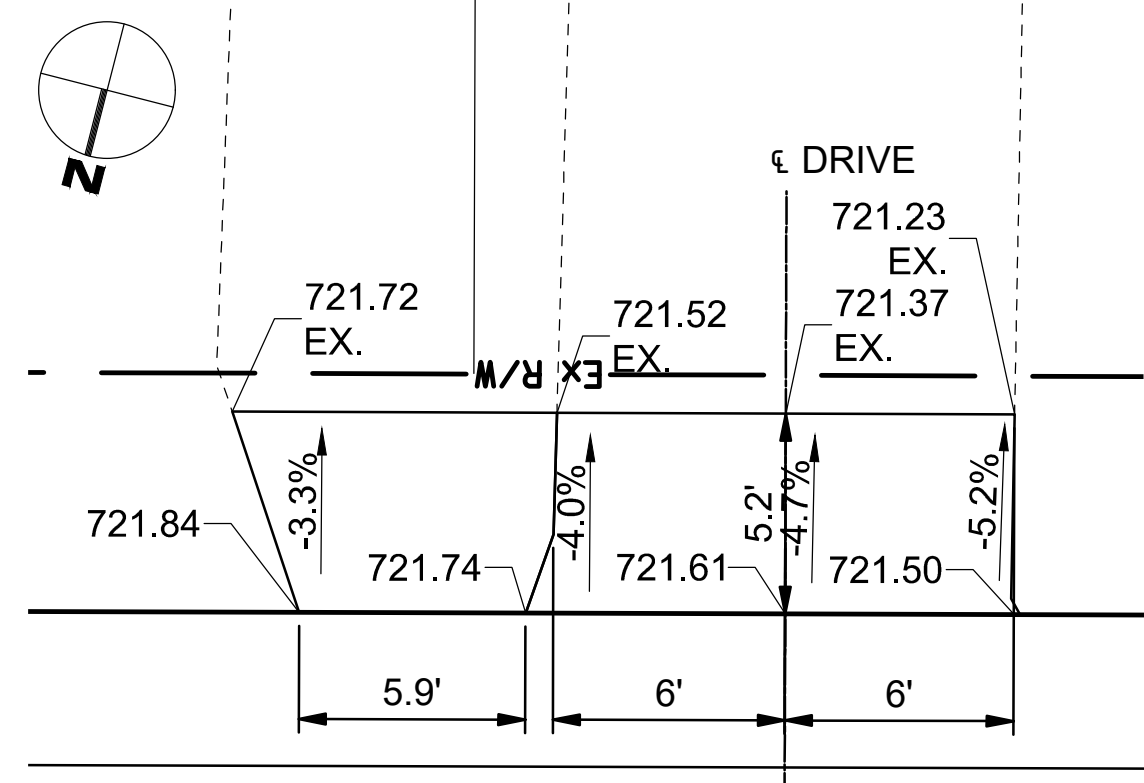
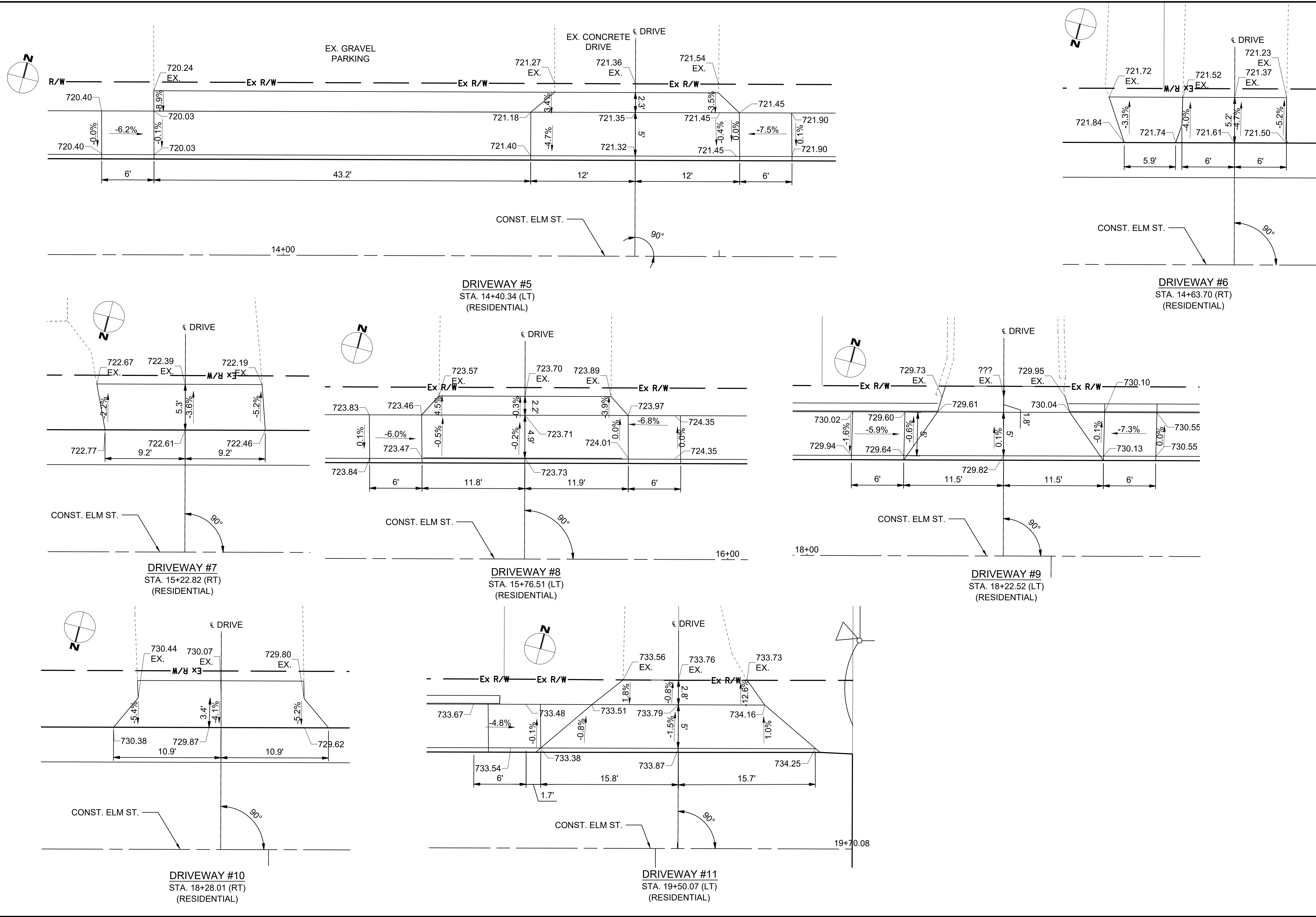
DRIVEWAY #4  
STA. 12+13.53 (LT)  
(RESIDENTIAL)



DRIVEWAY DETAILS  
STA. 10+66.98 TO STA. 12+13.53

ATHELM STREET

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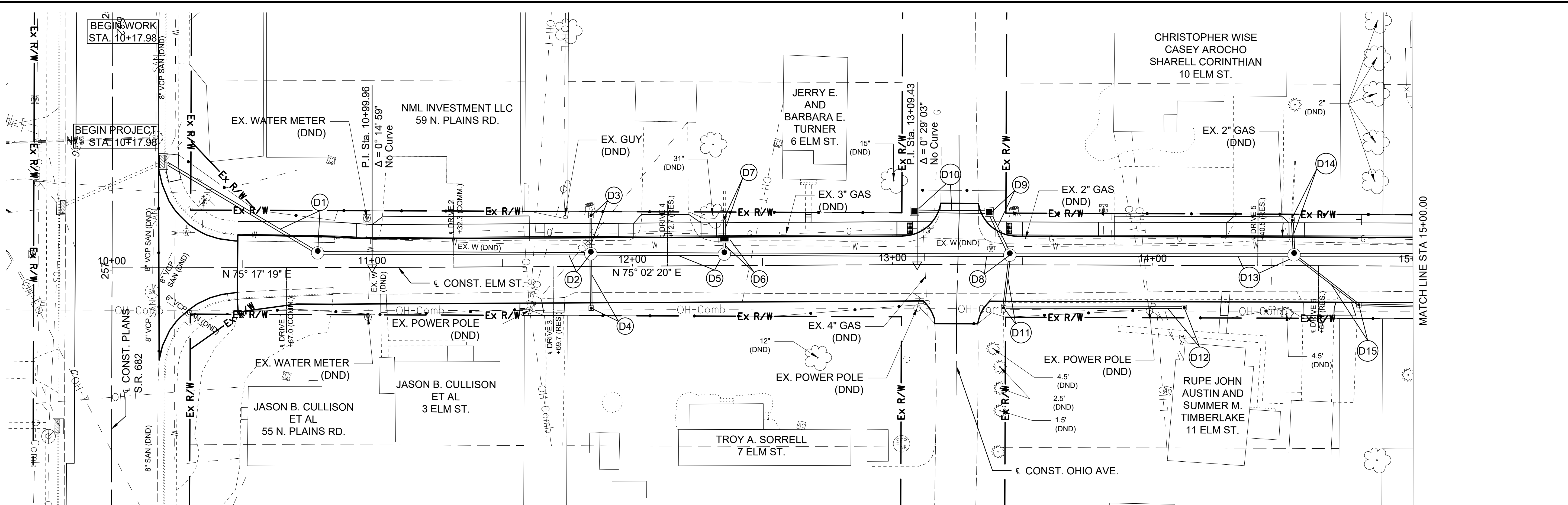
CALCULATED	CDK	CDK
CHECKED	CDK	CDK

0 10 20 40  
HORIZONTAL SCALE IN FEET

DRIVEWAY DETAILS  
STA. 14+40.34 TO STA. 19+50.07

ATHELM STREET

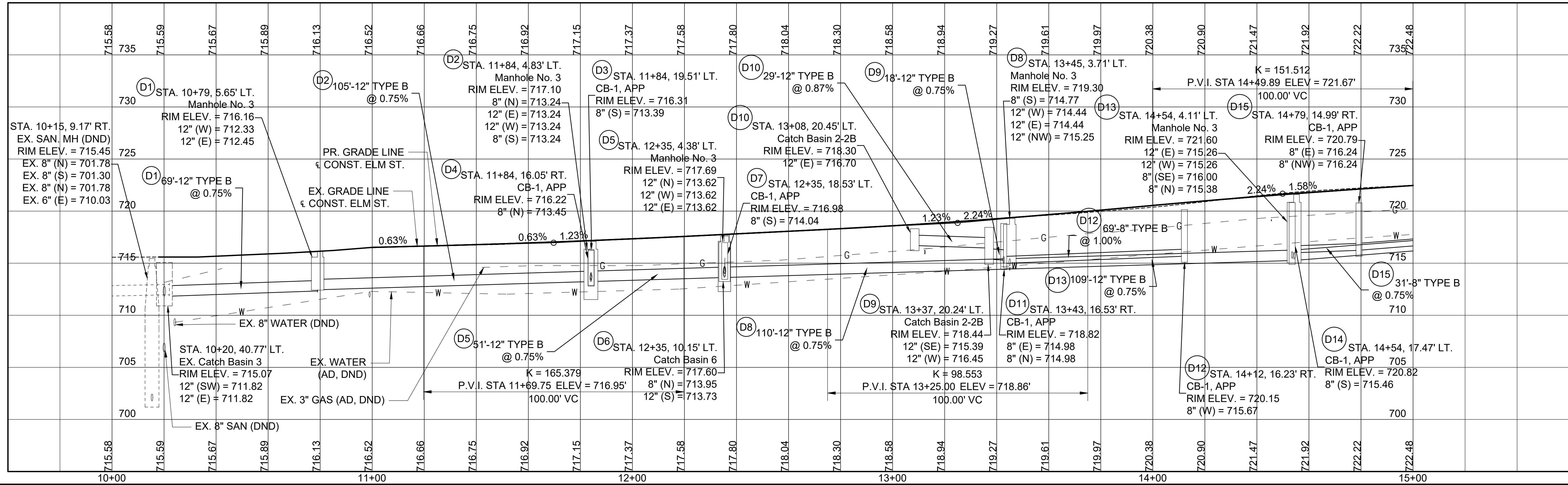
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CALCULATED CDK  
CHECKED CDK

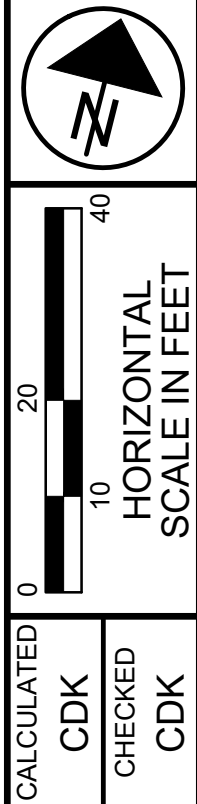
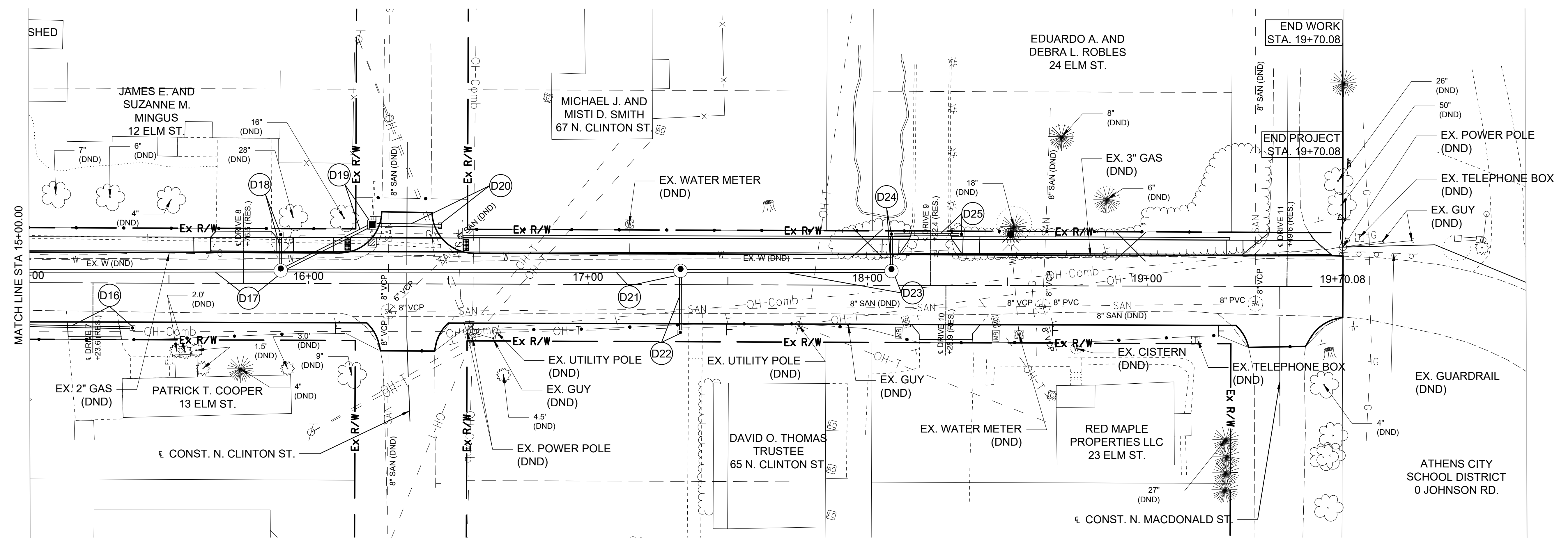
DRAINAGE DETAILS  
BEGIN WORK TO STA. 15+00.00

**LEGEND**  
 TBR = TO BE REMOVED  
 ATG = ADJUST TO GRADE  
 TBRL = TO BE RELOCATED  
 DND = DO NOT DISTURB  
 PA = PREVIOUSLY ABANDONED  
 AD = ASSUMED DEPTH  
 BO = BY OTHERS

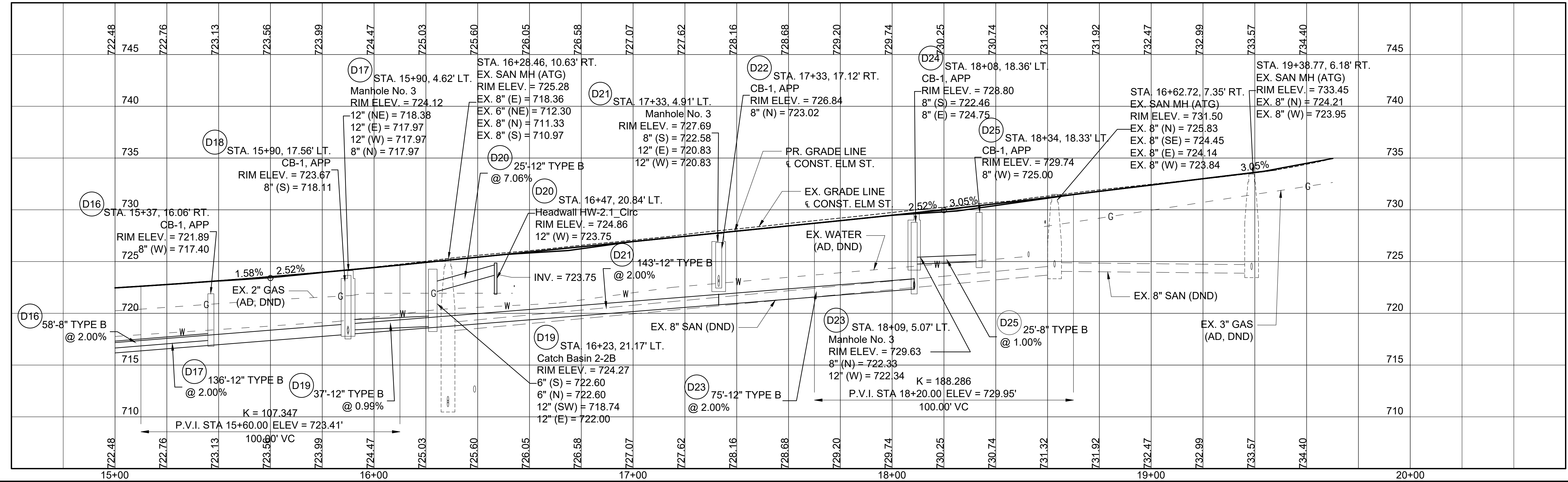


ATHELM STREET

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**LEGEND**  
 TBR = TO BE REMOVED  
 ATG = ADJUST TO GRADE  
 TBRL = TO BE RELOCATED  
 DND = DO NOT DISTURB  
 PA = PREVIOUSLY ABANDONED  
 AD = ASSUMED DEPTH  
 BO = BY OTHERS



**DRAINAGE DETAILS**  
 STA. 15+00.00 TO END WORK

**ATHELM STREET**

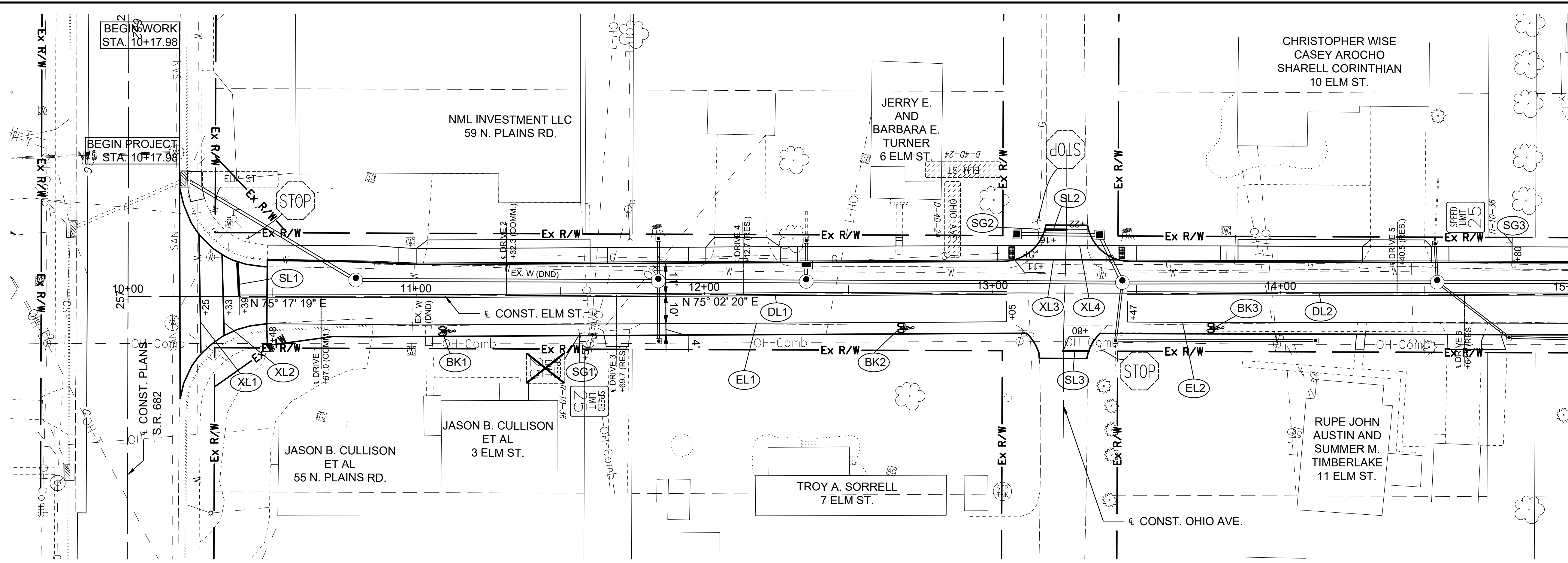


\\THEBUCKLEYGROUP\Buckley\_Share\Allocate\B\Allocate\2018 Projects\18280\AUTOCAD\PLAN\18280\_007\_CS.dwg\_07-Jan-22 4:28 PM

REF NO.	STATION		SIDE	602	611	611	611	611	611	611																				
	FROM	TO		CONCRETE MASONRY	8" CONDUIT, TYPE B	12" CONDUIT, TYPE B	CATCH BASIN, NO. 2-2B	CATCH BASIN, NO. 6	INLET, SIDE DITCH, AS PER PLAN	MANHOLE, NO. 3	CY	FT	FT	EACH	EACH	EACH	EACH													
D1	10+20	10+79	L			69										1														
D2	10+79	11+84	L			105										1														
D3		11+84	L		15										1															
D4		11+84	R		21										1															
D5	11+84	12+35	L			51										1														
D6		12+35	L			6			1																					
D7		12+35	L		8										1															
D8	12+35	13+45	L			110										1														
D9	13+37	13+45	L			18	1																							
D10	13+08	13+37	L			29	1																							
D11	13+43	13+45	R		20										1															
D12	13+43	14+12	R		69										1															
D13	13+45	14+54	L			109										1														
D14	14+53	14+54	L		13										1															
D15	14+54	14+79	R		31										1															
D16	14+79	15+37	R		58										1															
D17	14+54	15+90	L			136										1														
D18		15+90	L		13										1															
D19	15+90	16+22	L			37	1																							
D20	16+22	16+47	L	0.21		25																								
D21	15+90	17+33	L			143										1														
D22		17+33	R		22										1															
D23	17+33	18+09	L			75										1														
D24		18+09	L		13										1															
D25	18+09	18+34	L		25										1															
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				0.21	308	913	3	1	12	8																				

ESTIMATED QUANTITIES

ATH- ELM STREET



MATCH LINE STA 15+00.00

CALCULATED CDK  
 CHECKED CDK

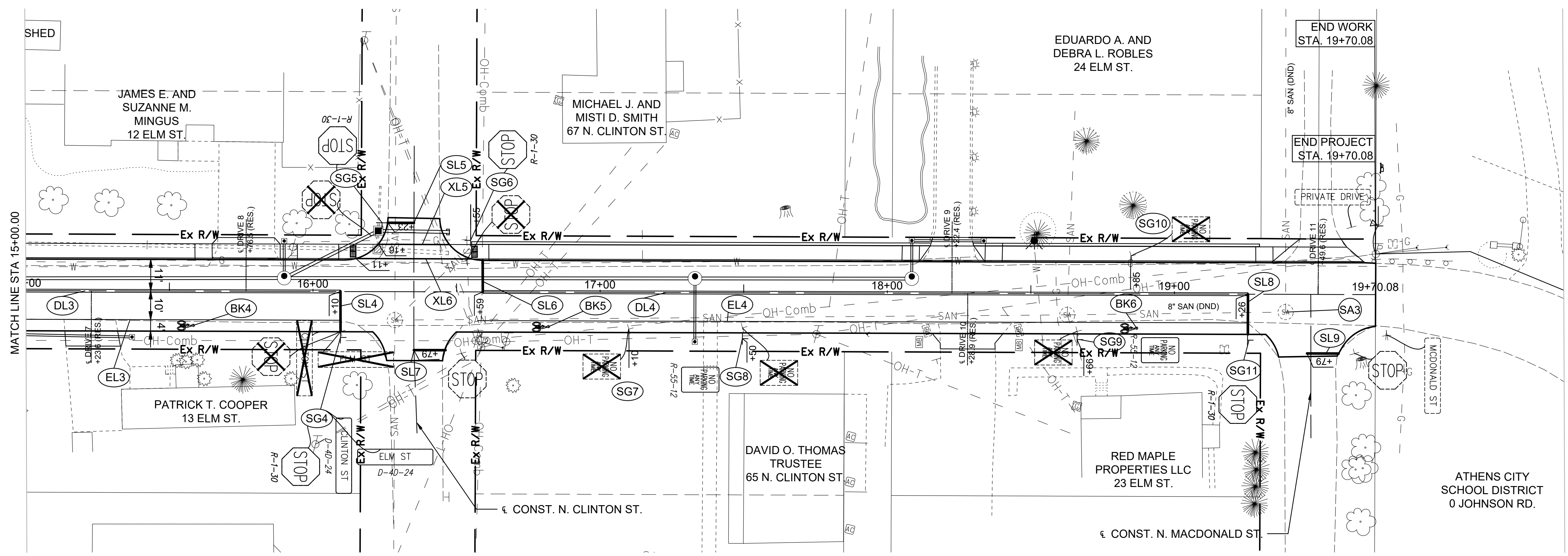
0 10 20 40  
 HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN  
 BEGIN WORK TO STA. 15+00.00

ATH-ELM STREET

SIGN LEGEND	
	NEW
	EXISTING, TO REMAIN
	EXISTING, TO BE REMOVED AND REERECTED
	EXISTING, TO BE REMOVED

PAVEMENT MARKING LEGEND	
	4" WHITE EDGE LINE
	4" DOUBLE YELLOW
	12" CROSSWALK LINE
	24" WHITE STOP LINE
	BIKE LANE SYMBOL MARKING



MATCH LINE STA 15+00.00

END WORK  
STA. 19+70.08

END PROJECT  
STA. 19+70.08

CALCULATED CDK  
CHECKED CDK

0 20 40  
HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN  
STA. 15+00.00 TO END WORK

ATH-ELM STREET

SIGN LEGEND	
	NEW
	EXISTING, TO REMAIN
	EXISTING, TO BE REMOVED AND REERECTED
	EXISTING, TO BE REMOVED

PAVEMENT MARKING LEGEND	
	4" WHITE EDGE LINE
	4" DOUBLE YELLOW
	12" CROSSWALK LINE
	24" WHITE STOP LINE
	BIKE LANE SYMBOL MARKING

\\THEBUCKLEYGROUP\Buckley\_Share\Allocate\B\Allocate\2018 Projects\18280\AUTOCAD\PLAN\18280\_007\_CS.dwg\_07-Jan-22 4:30 PM

REF NO.	STATION		SIDE	630	630		630	630	630		630	630	630			644	644	644	644	644									
	FROM	TO		GROUND MOUNTED SUPPORT, NO. 3 POST	STREET NAME SIGN SUPPORT, NO. 4 POST		SIGN, FLAT SHEET	SIGN, DOUBLE FACED, STREET NAME	SIGN POST REFLECTOR		REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DELIVERY			EDGE LINE, 4"	CENTER LINE	STOP LINE	CROSSWALK LINE, 12"	BIKE LANE SYMBOL MARKING									
				FT	FT		SF	EA	EACH		EACH	EACH	EACH			MILE	MILE	FT	FT	EACH									
XL1	10+25																												
XL2	10+33																												
XL3	50+11 (OHIO AVE)																												
XL4	50+16 (OHIO AVE)																												
XL5	50+11 (CLINTON ST)																												
XL6	50+16 (CLINTON ST)																												
SL1	10+39		L															11											
SL2	50+22 (OHIO AVE)		L															8											
SL3	49+80 (OHIO AVE)		R															9											
SL4	16+10		R															14											
SL5	50+23 (CLINTON ST)		L															9											
SL6	16+59		L															11											
SL7	49+79 (CLINTON ST)		R															11											
SL8	19+26		R															14											
SL9	49+79 (MCDONALD ST)		R															11											
EL1	10+44	13+05	R													0.05													
DL1	10+44	13+05															0.05												
EL2	13+47	15+00	R													0.03													
DL2	13+47	15+00															0.03												
EL3	15+00	16+10	R													0.02													
DL3	15+00	16+10															0.02												
EL4	16+59	19+26	R													0.05													
DL4	16+59	19+26															0.05												
BK1	11+11		R																										
BK2	12+70		R																										
BK3	13+78		R																										
BK4	15+56		R																										
BK5	16+80		R																										
BK6	18+85		R																										
SG1	11+57		R	13.0			7.5		1																				
SG2	50+22 (OHIO AVE)		L		16.2						2																		
SG3	14+80		L	13.0			7.5		1																				
SG4	16+10		R	13.0	16.2		6.3	2	1																				
SG5	50+23 (CLINTON ST)		L	13.0			6.3		1																				
SG6	16+55		L	13.0			6.3		1																				
SG7	17+10		R																										
SG8	17+50		R	13.0			5.0																						
SG9	18+66		R	13.0			5.0																						
SG10	18+84		L																										
SG11	19+26		R	13.0			6.3		1																				
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				104.0	32.4		50.2	2	6		2	8	9			0.15	0.15	98	191	6									

ESTIMATED QUANTITIES

ATH- ELM STREET

PROJECT SHALL CONFORM TO THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), 2019 OR LATEST VERSION, EXCEPT AS MODIFIED BY PLANS.

**PADLOCKS AND KEYS**

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH CMS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

**ITEM 625, LUMINAIRE, POST TOP, SOLID-STATE (LED), AS PER PLAN**

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING A DECORATIVE POST-TOP LED LUMINAIRE FOR ROADWAY AND/OR SIDEWALK ILLUMINATION ON POSTS OF 10 FEET NOMINAL HEIGHT.

HL-10.11 SHOWS AN ACORN-STYLE POST-TOP LUMINAIRE SCHEMATICALLY. THIS ITEM CONSISTS OF A BASE FITTER, GLASS (NOT ACRYLIC) GLOBE AND A ROUNDED TOP WITH NO DECORATIVE FEATURES SUCH AS FINIAL, CROWN, BAND OR RIBS. PROVIDE A LUMINAIRE WITH A B-U-G UP-LIGHTING RATING OF U4 OR LESS. PROVIDE WITH HOUSE SIDE SHIELD.

PROVIDE A LUMINAIRE COMPATIBLE WITH THE LIGHTING BRANCH CIRCUIT SHOWN IN THE PLANS. ASSURE THE LUMINAIRE POST-FITTER HAS A HINGED OR CAPTIVE DOOR. ASSURE THE LUMINAIRE CAN MOUNT A PHOTOCELL OR WIRELESS CONTROL THAT USES A NEMA STANDARD PHOTOCELL RECEPTACLE.

PROVIDE A LUMINAIRE WITH 3G VIBRATION RATING. PROTECT EACH LUMINAIRE USING A SURGE PROTECTIVE DEVICE (SPD) CONFORMING TO ODOT SUPPLEMENTAL SPEC 913.

ASSURE THE LUMINAIRE HAS A NOMINAL COLOR TEMPERATURE (CCT) OF 3000K.

PROVIDE A LUMINAIRE WITH FACTORY-APPLIED BLACK FINISH MEETING SUPPLEMENTAL SPECIFICATION 916.

LUMINAIRE SHALL HAVE 240V OPERATING VOLTAGE.

SUPPLY ONE OF THE FOLLOWING LUMINAIRES, OR AN APPROVED EQUAL:  
HOLOPHANE GRANVILLE LED III PREMIER, 8619 LUMENS, PHOTOMETRIC DISTRIBUTION: GPD3\_P30\_30K\_XXXX\_GL3

STERNBERG G74LED HOMETOWN SERIES, 7675 LUMENS, PHOTOMETRIC DISTRIBUTION: G74LED-4L30T3-MDL05

KING LUMINAIRE K445, 7716 LUMENS, PHOTOMETRIC DISTRIBUTION: 0445NT1GR4X06030XXS

**ITEM 625, LIGHT POLE, DECORATIVE, AS PER PLAN:**

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING A DECORATIVE LIGHT POLE FOR POST TOP LUMINAIRE.

THE DECORATIVE LIGHT POLE SHALL BE ALUMINUM, ONE-PIECE CONSTRUCTION. THE APPROXIMATE 10" TO 12" OCTAGONAL CAST ALUMINUM LOWER BASE AND ROUND FLUTED UPPER BASE SHALL BE CONSTRUCTED WITH A 4 INCH DIAMETER EXTRUDED ALUMINUM STRAIGHT ROUND SHAFT EXTENDING UP TO THE LUMINAIRE AND SHALL HAVE A 3" SLIP FITTER TENON ON TOP.

THE BASE SHALL BE DESIGNED WITH OCTAGONAL STEPPED BASE TRANSITIONING INTO A TAPERED SIXTEEN FLUTE TOP SECTION AND SHALL BE MADE OF HEAVY WALL, 356 ALLOW CAST ALUMINUM. IT SHALL HAVE A 3/4" THICK FLOOR CAST AS AN INTEGRAL PART OF THE BASE. THE SHAFT SHALL BE EXTERNALLY WELDED CIRCUMFERENTIALLY TO THE BASE.

THE SMOOTH STRAIGHT SHAFT SHALL BE MADE OF ASTM 6063.

POLE SHALL BE HOLOPHANE "OSLOW" SERIES, STERNBERG "4800 SPRINGFIELD" SERIES, SPRING CITY "MANCHESTER" SERIES, OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE UNDER CMS ITEM 625 "LIGHT POLE, DECORATIVE, AS PER PLAN" FOR EACH LIGHT POLE INSTALLED, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**ITEM 625, LIGHT POLE FOUNDATION, AS PER PLAN:**

LIGHT POLE FOUNDATION, AS PER PLAN, CONSISTS OF A CONCRETE LIGHT POLE FOUNDATION, 18" IN DIAMETER AND 4 FEET DEEP, AND CONSTRUCTED IN ACCORDANCE WITH DETAIL 1 ON THIS SHEET.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE UNDER CMS ITEM 625 "LIGHT FOUNDATION, AS PER PLAN" FOR EACH LIGHT POLE FOUNDATION INSTALLED, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**ITEM 625, POWER SERVICE, AS PER PLAN:**

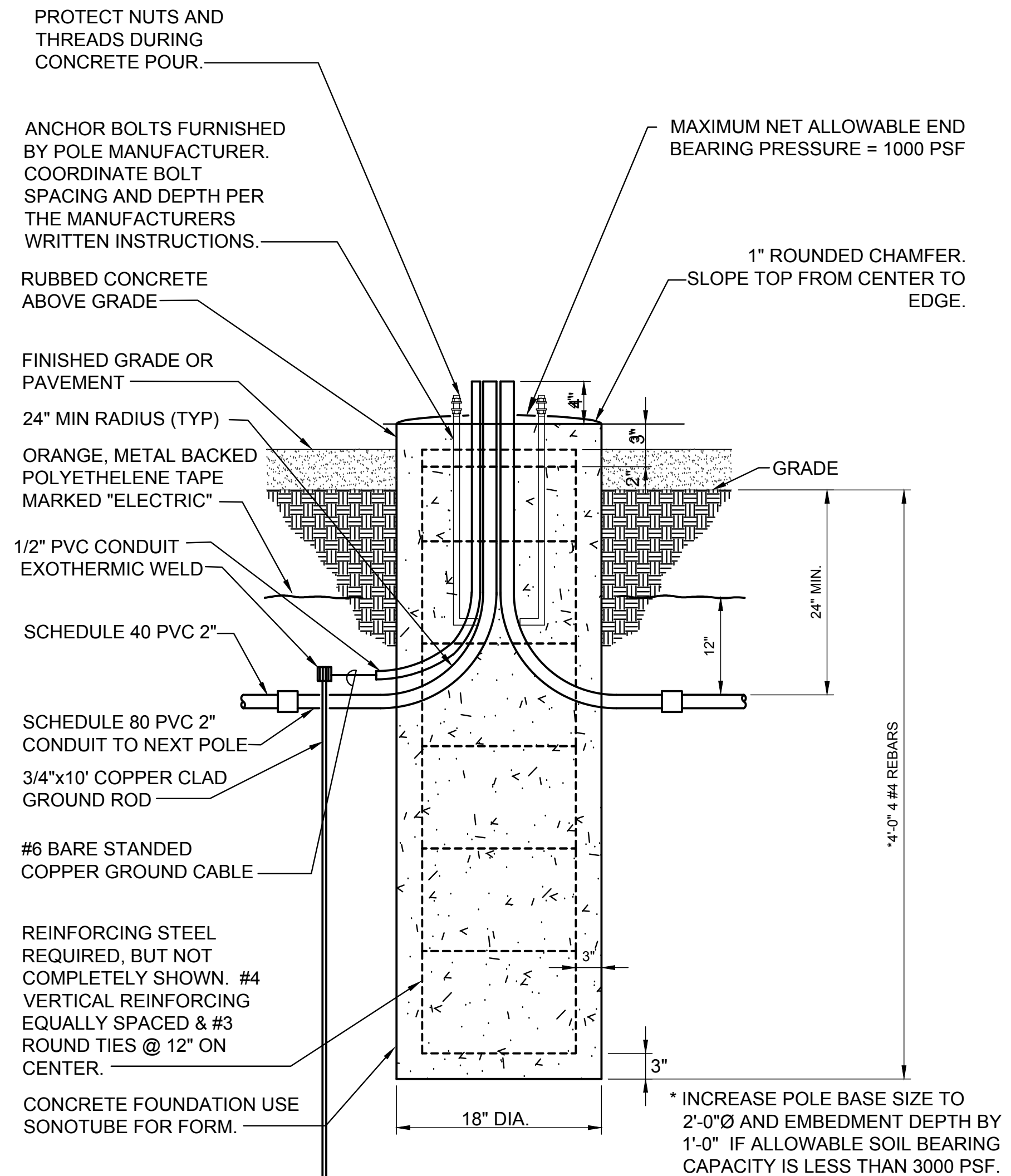
IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:  
POWER COMPANY AMERICAN ELECTRIC POWER AEP  
ADDRESS: 9135 ST RT 682, ATHENS, OHIO 45701-1964  
PHONE : 740-594-1964  
CONTACT NAME: BLAKE E. LINDNER  
BELINDNER@AEP.COM

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

THE CONTRACTOR SHALL PROVIDE WOOD CUSTOMER SERVICE POLE, WEATHERHEAD, CONDUIT MAST, INSULATED EYE-BOLT AND DRIP LOOP PIGTAILS FOR AEP TO TERMINATE OVERHEAD TRIPLEX SECONDARY SERVICE CONDUCTORS. CONDUIT AND WIRE SHALL EXTEND UNDERGROUND TO POWER SERVICE METER AND CONTROLLER. REFER TO DETAIL 1 ON SHEET 33.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.



NOTE: ALL CONCRETE TO BE ODOT ITEM 499, CLASS "QC1" CONCRETE.

**1** DETAIL - POLE FOUNDATION, AS PER PLAN  
NONE

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CALCULATED  
BW  
CHECKED  
JCS

LIGHTING GENERAL NOTES

ATH-ELM STREET

SHEET NO.	SIDE	ROADWAY	STATION TO STATION	CIRCUIT NODES	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
					00450	10481	14501	22990	23400	25408	25802	27401	29000	30700	32000	34001	36010	76000	
					CONNECTION, FUSED PULL APART	LIGHT POLE, DECORATIVE, AS PER PLAN	LIGHT POLE FOUNDATION, AS PER PLAN	NO. 6 AWG 600V DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 2", 725.051	CONDUIT, CONCRETE ENCASED, 2"	LUMINAIRE, POST TOP, SOLID-STATE (LED), AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, 120/240V, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE	ARC FLASH CALCULATIONS AND LABEL	
* = MATCH LINE					EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	FT	EACH	
31	LT	ELM STREET	STA. 10+69.8	P10	2	1	1		36			1		1					
31	LT	ELM STREET	STA. 10+69.8 TO STA. 11+65.0	P10 TO P9				333		43	58		101					101	
31	LT	ELM STREET	STA. 11+65.0	P9	2	1	1		36			1		1					
31	LT	ELM STREET	STA. 11+65.0 TO STA. 12+52.4	P9 TO P8				294		67	21		88					88	
31	LT	ELM STREET	STA. 12+52.4	P8	2	1	1		36			1		1					
31	LT	ELM STREET	STA. 12+52.4 TO STA. 13+12.6	P8 TO PB8				213		61			61					61	
31	LT	ELM STREET	STA. 13+12.6	PB8										1					
31	LT	ELM STREET	STA. 13+12.6 TO STA. 13+49.7	PB8 TO P7				144			38		38					38	
31	LT	ELM STREET	STA. 13+49.7	P7	2	1	1		36			1		1					
31	LT	ELM STREET	STA. 13+49.7 TO STA. 14+60.7	P7 TO PB7				366		89	23		112					112	
31	LT	ELM STREET	STA. 14+60.7	PB7										1					
31	LT	ELM STREET	STA. 14+60.7 TO STA. 14+60.6	PB7 TO P6				42		4			4					4	
31	LT	ELM STREET	STA. 14+60.6	P6	2	1	1		36			1		1					
31	LT	ELM STREET	STA. 14+60.6 TO STA. 15+00.0	P6 TO *				135		40			40					40	
32	LT	ELM STREET	STA. 15+00.0 TO STA. 15+58.2	* TO P5				192		59			59					59	
32	LT	ELM STREET	STA. 15+58.2	P5	2	1	1		36			1		1					
32	LT	ELM STREET	STA. 15+58.2 TO STA. 16+11.9	P5 TO PB6				195		34	21		55					55	
32	LT	ELM STREET	STA. 16+11.9	PB6										1					
32	LT	ELM STREET	STA. 16+11.9 TO STA. 16+57.7	PB6 TO PB5				168			46		46					46	
32	LT	ELM STREET	STA. 16+57.7	PB5										1					
32	LT	ELM STREET	STA. 16+57.7 TO STA. 16+66.5	PB5 TO P4				63		21			21					21	
32	LT	ELM STREET	STA. 16+66.5	P4	2	1	1		36			1		1					
32	LT	ELM STREET	STA. 16+66.5 TO STA. 17+64.5	P4 TO P3				327		99			99					99	
32	LT	ELM STREET	STA. 17+64.5	P3	2	1	1		36			1		1					
32	LT	ELM STREET	STA. 17+64.5 TO STA. 18+03.3	P3 TO PB4				150		40			40					40	
32	LT	ELM STREET	STA. 18+03.3	PB4										1					
32	LT	ELM STREET	STA. 18+03.3 TO STA. 18+41.8	PB4 TO PB3				147			39		39					39	
32	LT	ELM STREET	STA. 18+41.8	PB3										1					
32	LT	ELM STREET	STA. 18+41.8 TO STA. 18+60.8	PB3 TO P2				93		21			21					21	
32	LT	ELM STREET	STA. 18+60.8	P2	2	1	1		36			1		1					
32	LT	ELM STREET	STA. 18+60.8 TO STA. 19+28.0	P2 TO P1				234		68			68					68	
32	LT	ELM STREET	STA. 19+28.0	P1	2	1	1		36			1		1					
32	LT	ELM STREET	STA. 19+28.0 TO STA. 19+63.3	P1 TO PB2				138			36		36					36	
32	LT	ELM STREET	STA. 19+63.3	PB2										1					
32	LT	ELM STREET	STA. 19+63.3 TO STA. 19+63.0	PB2 TO PB1				180		50			50					50	
32	LT	ELM STREET	STA. 19+63.0	PB1										1					
32	LT	ELM STREET	STA. 19+63.0 TO STA. 19+66.0	PB1 TO PS1				39		3			3					3	
32	LT	ELM STREET	STA. 19+66.0	PS1												1		1	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>20</b>	<b>10</b>	<b>10</b>	<b>3453</b>	<b>360</b>	<b>699</b>	<b>282</b>	<b>10</b>	<b>981</b>	<b>8</b>	<b>10</b>	<b>1</b>	<b>981</b>	<b>1</b>	

CALCULATED  
BW  
CHECKED  
JCS

LIGHTING SUBSUMMARY

ATH-ELM STREET

**SHEET KEY NOTES:**

1. STUB 2" CONDUIT AND PULL WIRE OUT 3' FROM POLE FOUNDATION. CAP CONDUIT IN TRENCH AND TAG CONDUIT "FUTURE SPARE" INSIDE THE LIGHT POLE HAND-HOLE.
2. ENCASE CONDUIT IN CONCRETE BENEATH DRIVEWAY.

**GENERAL NOTES:**

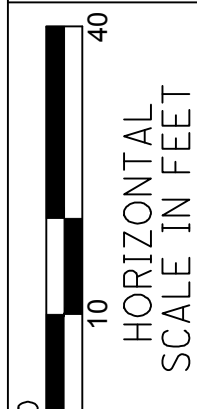
1. VERIFY ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGED UTILITIES INDICATED ON THE PLANS. VERIFY ALL UTILITY LOCATIONS FROM CIVIL PLANS IN FIELD.

**LEGEND**

- EXISTING WOOD UTILITY POLE
- FIRE HYDRANT
- EXISTING UNDERGROUND GAS
- COMBINED SANITARY/STORM PIPING
- SANITARY PIPING
- WATER MAIN
- EXISTING OVERHEAD TELEPHONE
- EXISTING COMBINATION OVERHEAD POWER AND TELEPHONE
- EXISTING OVERHEAD ELECTRIC POWER
- EXISTING RIGHT OF WAY
- EXISTING LIGHTING CIRCUIT
- EXISTING OVERHEAD LIGHTING REMAINS
- PROPOSED DIRECT BURIED UNDERGROUND LIGHTING CONDUCTORS # 6 AWG IN 2" CONDUIT, 725.051
- PROPOSED CONCRETE ENCASED UNDERGROUND LIGHTING CONDUCTORS #6 AWG IN 2" CONDUIT

**LEGEND**

- PROPOSED LIGHT POLE, DECORATIVE, AS PER PLAN WITH LUMINAIRE, POST TOP LED, AS PER PLAN AND 4' CONCRETE FOUNDATION.
- EXISTING PULL BOX
- LIGHTING PULL BOX, 18", 725.051
- LIGHTING POWER SERVICE, AS PER PLAN
- PROPOSED POLE MOUNTED AEP LIGHTING TRANSFORMER
- PROPOSED RACK MOUNTED AEP METER
- PROPOSED POLE CONDUIT STUB-OUT
- ITEM REFERENCE NUMBER

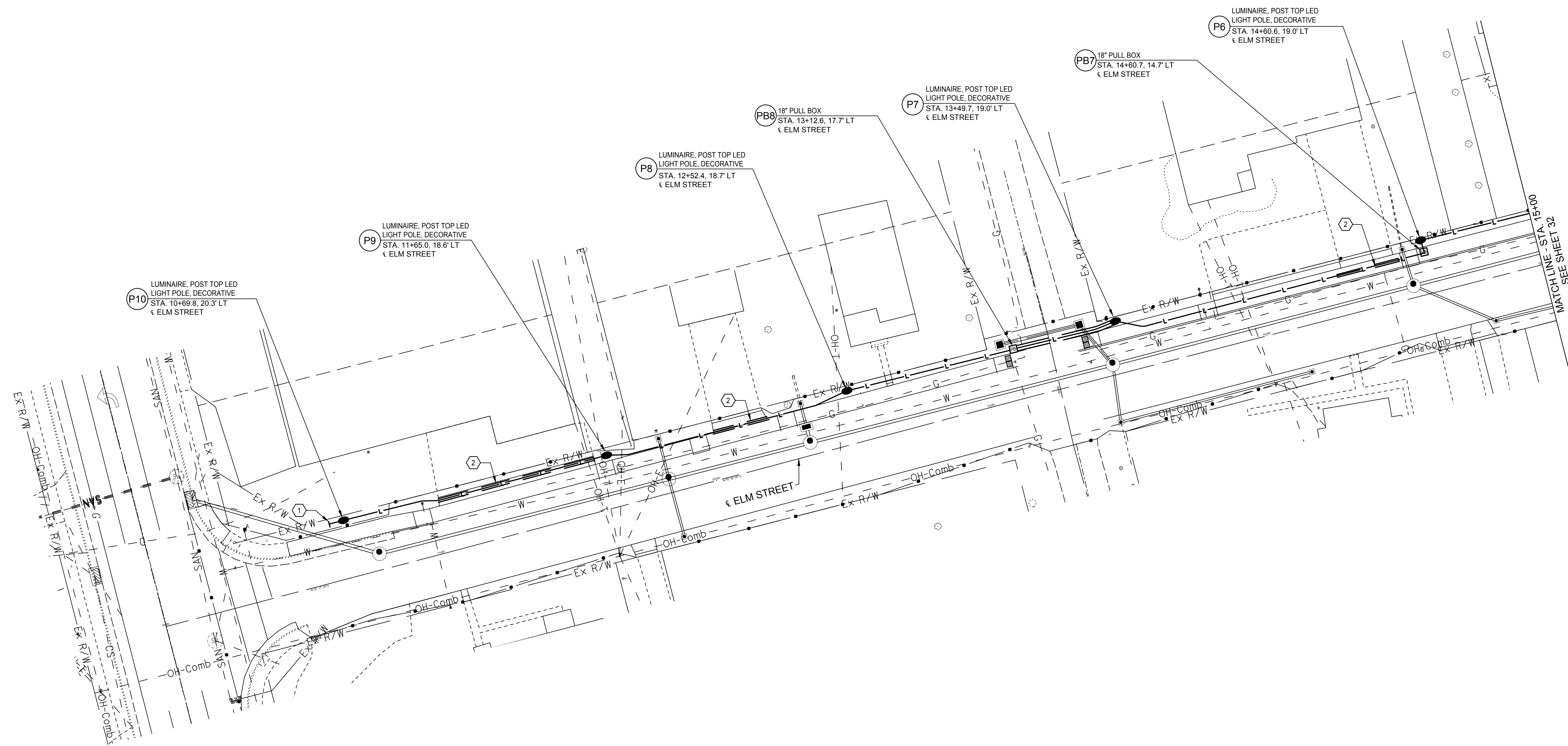


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 BW  
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 JCS

**LIGHTING PLAN - WEST  
 10+00 TO 15+00**

**ATH-ELM STREET**

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**SHEET KEY NOTES:**

- EXISTING AEP UTILITY POLE WITH PRIMARY POWER, AND COMMUNICATIONS SHALL REMAIN. AEP EXTENDS NEW OVERHEAD SINGLE PHASE PRIMARY POWER TO NEW SERVICE DROP TRANSFORMER POLE. SEE DETAIL 1 ON DRAWING SHEET 28 / 31.
- AEP PROVIDES TRANSFORMER POLE AND OVERHEAD SINGLE PHASE PRIMARY FROM EXISTING ELM ST. UTILITY POLE #42946 71. AEP PROVIDES OVERHEAD SECONDARY TRIPLEX AERIAL SERVICE AND TERMINATIONS AT OWNER PROVIDED SERVICE DROP POLE. CONTRACTOR PROVIDES WEATHER-HEAD, MAST, INSULATED EYE-BOLT FOR MESSENGER NEUTRAL AND AEP REQUIRED LENGTH OF DRIP LOOP CONDUCTORS AT SERVICE DROP POLE. SEE DETAIL 1 ON DRAWING SHEET 31 / 32.
- EXISTING TREE SHALL BE REMOVED BY CONTRACTOR PER AEP POWER COMPANY REQUEST TO MAKE REQUIRED CLEARANCE FOR NEW AEP OVERHEAD PRIMARY AND TRANSFORMER POLE.
- NEW OWNER STREET LIGHTING SERVICE POLE AND DISTRIBUTION EQUIPMENT. SEE OWNER POLE DETAIL WITH WEATHER HEAD MAST AND DRIP LOOP LEADS ON DETAIL 1, DRAWING 2X / 3X. REFER TO O.D.O.T.
- TRIM TREE LIMBS BACK ONLY IF REQUIRED BY AEP.
- AEP PROVIDED SINGLE PHASE AERIAL PRIMARY POWER.
- AEP REQUESTS 20 FOOT SEPARATION BETWEEN OWNERS SERVICE DROP POLE / RACK MOUNTED CONTROLLER AND AEP'S TRANSFORMER POLE.
- ENCASE CONDUIT IN CONCRETE BENEATH DRIVEWAY.
- PROVIDE ARC-FLASH CALCULATIONS AND LABEL FOR POWER SERVICE.

**GENERAL NOTES:**

- VERIFY ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGED UTILITIES INDICATED ON THE PLANS. VERIFY ALL UTILITY LOCATIONS FROM CIVIL PLANS IN FIELD.

**LEGEND**

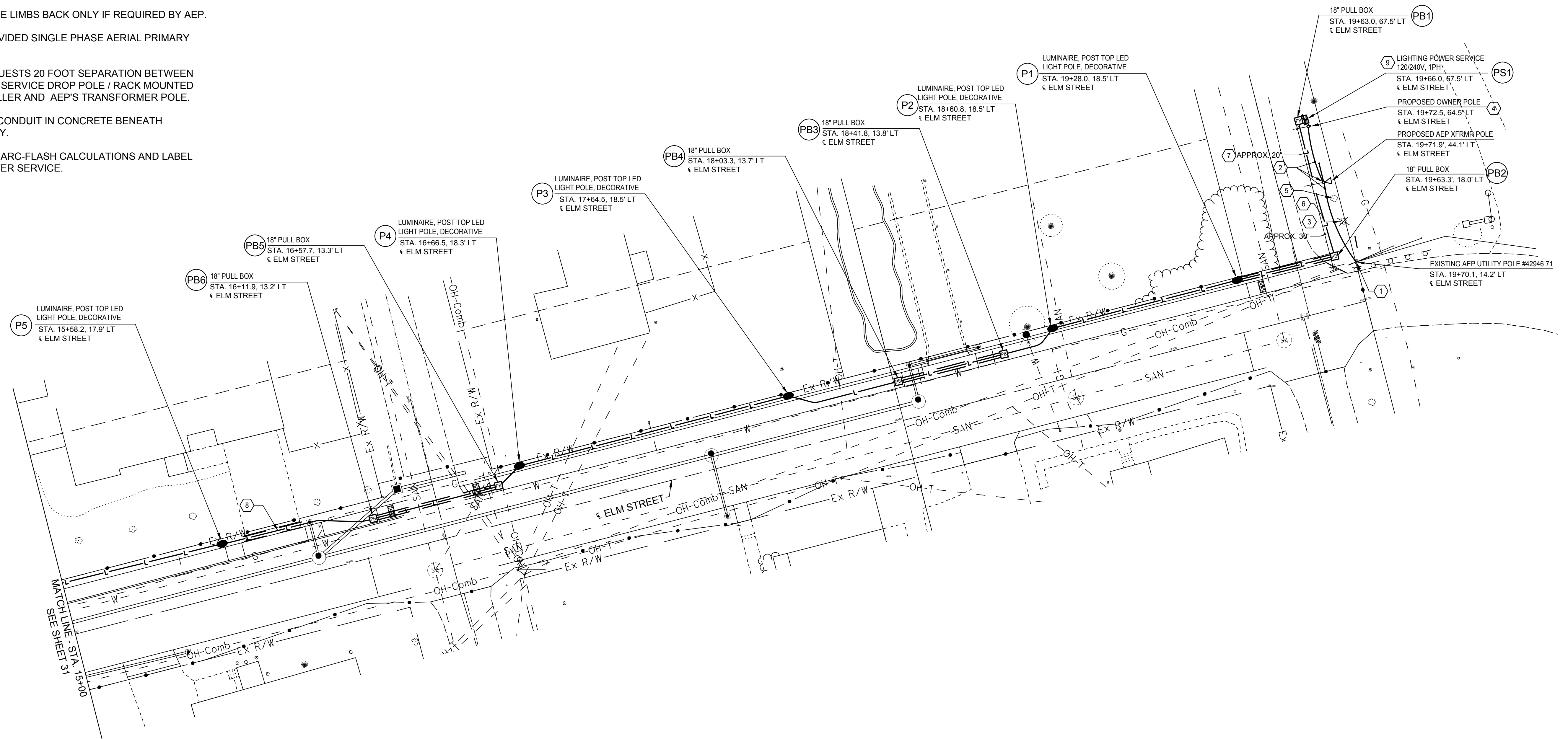
	EXISTING WOOD UTILITY POLE
	FIRE HYDRANT
	EXISTING UNDERGROUND GAS
	COMBINED SANITARY/STORM PIPING
	SANITARY PIPING
	WATER MAIN
	EXISTING OVERHEAD TELEPHONE
	EXISTING COMBINATION OVERHEAD POWER AND TELEPHONE
	EXISTING OVERHEAD ELECTRIC POWER
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	PROPOSED CONCRETE ENCASED UNDERGROUND LIGHTING CONDUCTORS #6 AWG IN 2" CONDUIT

**LEGEND**

	PROPOSED LIGHT POLE, DECORATIVE, AS PER PLAN WITH LUMINAIRE, POST TOP LED, AS PER PLAN AND 4' CONCRETE FOUNDATION.
	EXISTING PULL BOX
	LIGHTING PULL BOX, 18", 725.08
	LIGHTING POWER SERVICE, AS PER PLAN
	PROPOSED POLE MOUNTED AEP LIGHTING TRANSFORMER
	PROPOSED RACK MOUNTED AEP METER
	PROPOSED POLE CONDUIT STUB-OUT
	ITEM REFERENCE NUMBER

CALCULATED BY **BW** CHECKED BY **JCS**

0 10 20 40  
HORIZONTAL SCALE IN FEET



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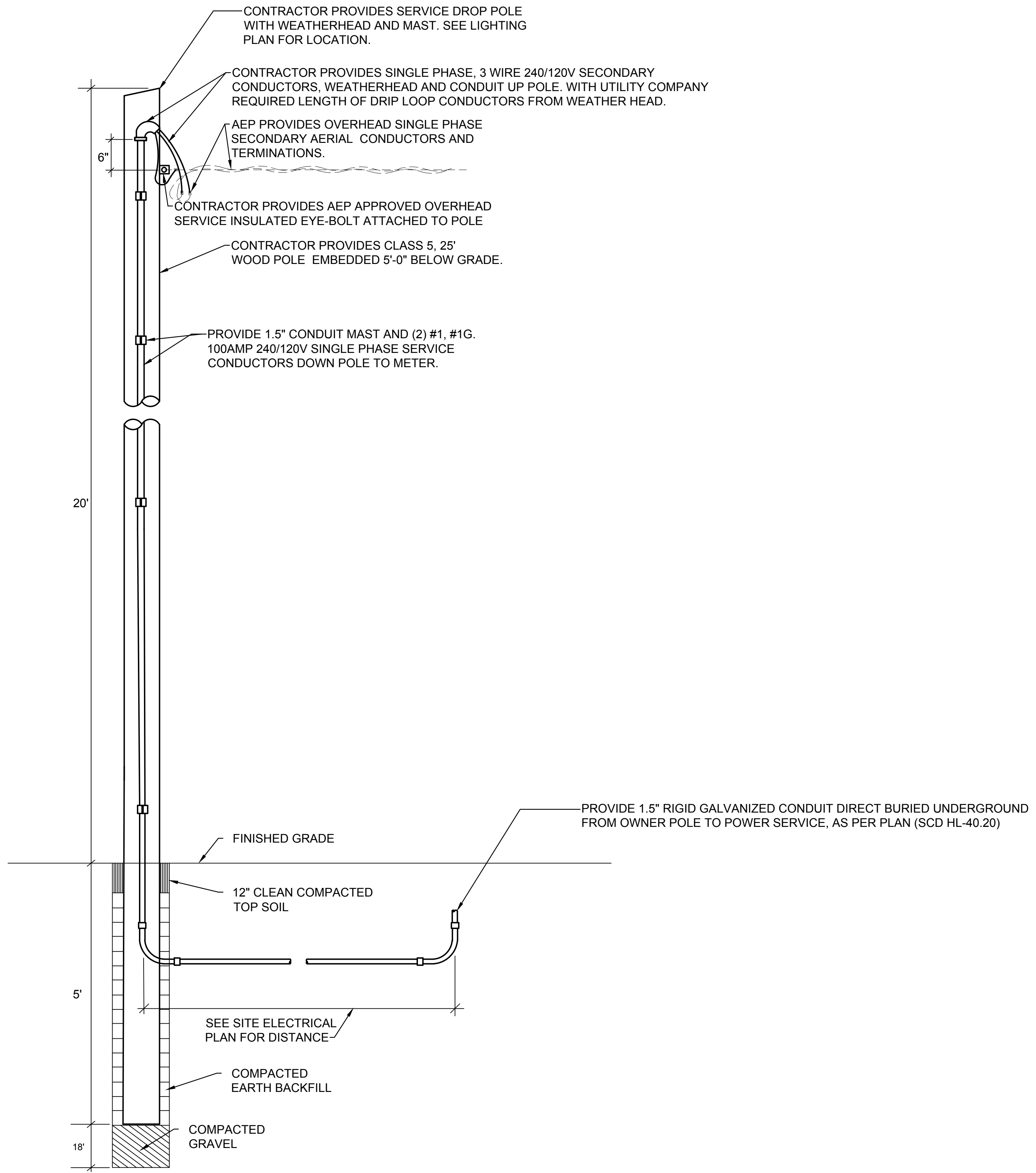
LIGHTING PLAN - EAST  
15+00 - 19+70.08

ATH-ELM STREET

2 / 2

32  
33





**1 SERVICE POLE DETAIL**  
NONE

CALCULATED	
BW	
CHECKED	
JCS	