GENERAL

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

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

ELECTRIC
OHIO EDISON
ATTN: DOUG LINN
1910 W. MARKET STREET
BUILDING #1
AKRON, OHIO 44313
(330) 436-4055

FIBER
AT&T
ATTN: MIKE DIEDERICH
7555 E. PLEASANT VALLEY RD.
SUITE 140
INDEPENDENCE, OHIO 44131
(216) 750-0135

GAS
COLUMBIA GAS OF OHIO
ATTN: ADAM WOODIE
3101 NORTH RIDGE ROAD E
LORAIN, OHIO 44055
(440) 240-6144

WATER
RURAL LORAIN COUNTY
WATER AUTHORITY
ATTN: JOE DEMCZYK
42401 S.R. 303, P.O. BOX 567
LAGRANGE, OHIO 44050
440-355-51521
jdemczyk@rlcwa.com

CABLE/COMMUNICATIONS
FRONTIER COMMUNICATIONS
ATTN: RANDY HOWARD
6223 NORWALK ROAD,
MEDINA, OHIO 44256
(330) 722-9586

GLW BROADBAND
ATTN: JOEL LARGE
993 COMMERCE DRIVE
P.O. BOX 67
GRAFTON, OHIO 44044
(440) 926-3230

LEVEL 3 COMMUNICATIONS
ATTN: DOUG HOLLOWAY
4000 CHESTER AVE.
CLEVELAND, OHIO 44103
(216) 906-6284

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.

AT&T FIBER OPTIC

SUE LEVEL A TEST HOLES PERFORMED TO LOCATE THE DEPTH OF THE AT&T FIBER OPTIC CABLE CROSSING SR 83 SOUTH OF THE CSX RAILROAD WERE INCONCLUSIVE. THREE TEST HOLES ADVANCED 8 FEET IN DEPTH FOUND NO EVIDENCE OF THE FIBER OPTIC CABLE. AT&T ESTIMATES THE DEPTH UNDER SR 83 TO BE APPROXIMATELY 8 TO 9 FEET. ALL PROPOSED WORK IS ABOVE THE ESTIMATED DEPTH OF THE FIBER OPTIC CABLE HOWEVER THE CONTRACTOR IS ADVISED TO USE EXTREME CAUTION WHEN PERFORMING EXCAVATIONS OVER THE FIBER OPTIC CABLE.

SURVEYING PARAMETERS

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

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

PROJECT CONTROL

POSITIONING METHOD:	ODOT VRS
MONUMENT TYPE:	TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	NAVD 88
GEOID:	12A

HORIZONTAL POSITIONING

REFERENCE FRAME:	NAD83 (2011)
ELLIPSOID:	GRS-80
MAP PROJECTION:	LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM:	OHIO STATE PLANE NORTH ZONE
COMBINED SCALE FACTOR:	0.99990753137
ORIGIN OF COORDINATE SYSTEM:	0,0,0

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

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

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.

CLEARING AND GRUBBING

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED. THE TREES LISTED BELOW ARE SCHEDULED TO BE REMOVED WITH A SEPARATE CONTRACT BEFORE APRIL 1, 2022.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	39	0	39
30"	5	0	5
48"	2	0	2
60"	0	0	0

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 7 HOURS

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. 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 204.05.

   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.

3. COMPACT THE SUBGRADE ACCORDING TO 204.03.

4. 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 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, TREATED SHOULDERS, PAVED MEDIANS, BACK OF CURB, OR AS SHOWN IN THE DETAILS IN THE TYPICAL SECTIONS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.

7. 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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 98 FEET. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, THE CONTRACTOR IS ADVISED THAT FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NO. (SEE BELOW LIST) IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED. THIS FILING SHALL BE COMPLETED BY USE OF THE FAA OBSTRUCTION EVALUATION GROUP'S ONLINE PROJECT FILING PROCESS. COPIES OF THE ALTERATION AND FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

THE CONTRACTOR IS FURTHER ADVISED THAT THE FAA APPROVAL WILL TAKE A MINIMUM OF 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES. DIRECT ALL SUBMISSIONS TO THE FEDERAL AVIATION ADMINISTRATION USING THE CONTACT INFORMATION INCLUDED WITH THE OBSTRUCTION EVALUATION DETERMINATION LETTERS INCLUDED IN THE PROJECT PROPOSAL, COPYING THE ODOT OFFICE OF AVIATION AT 2829 W DUBLIN GRANVILLE ROAD, COLUMBUS, OH 43235, PH: 614.793.5046, EMAIL: Ohio.Airport.Protection@dot.ohio.gov. ADDITIONALLY, ENSURE THE DISTRICT FAA COORDINATOR IS COPIED ON ALL FAA CORRESPONDENCE VIA EMAIL AT Kenneth.Knapp@dot.ohio.gov.

FAA AERONAUTICAL STUDIES FOR PROJECT LOR-83-2.48

AERONAUTICAL STUDY NUMBER	COUNTY	ROUTE	STRAIGHT LINE MILE	LAT-LONG		AMSL ELEVATION
				LATITUDE	LONGITUDE	
2020-AGL-20593-OE	LORAIN	57	4.37	41.237861°	82.022306°	857'
2020-AGL-20594-OE	LORAIN	83	2.55	41.237000°	82.022333°	858'
2020-AGL-20595-OE	LORAIN	83	2.48	41.235917°	82.022361°	857'
2020-AGL-20596-OE	LORAIN	57	4.94	41.238889°	82.022278°	864'

GENERAL NOTES

DESIGN AGENCY
AECOM

DESIGNER CKJ
REVIEWER JES 01-10-20
PROJECT ID 109455
SHEET P.12 TOTAL P.163

LOR-83-2.48

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		P.15	P.16			P.115						01/SAF/OT	02/STR/OT						
																		RETAINING WALLS	
						LS						LS		503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	P.115
						596						596		503	21100	596	CY	UNCLASSIFIED EXCAVATION	
						76						76		503	31101	76	CY	ROCK EXCAVATION, AS PER PLAN	P.115
						19,608						19,608		509	10000	19,608	LB	EPOXY COATED REINFORCING STEEL	
						175						175		511	46212	175	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL INCLUDING FOOTING	
						159						159		512	10050	159	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
						20						20		512	33000	20	SY	TYPE 2 WATERPROOFING	
						123						123		516	13200	123	SF	½" PREFORMED EXPANSION JOINT FILLER	
						49						49		516	13600	49	SF	1" PREFORMED EXPANSION JOINT FILLER	
						138						138		518	21200	138	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
						251						251		518	40000	251	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
						51						51		613	41201	51	CY	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN	P.115
																		MAINTENANCE OF TRAFFIC	
		230										230		410	12000	230	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		600										600		410	13000	600	CY	TRAFFIC COMPACTED SURFACE, TYPE C	
			80									80		614	11110	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
												LUMP		614	12420	LS		DETOUR SIGNING	
		50										50		614	13000	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			8									8		614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.16
		1										1		614	40050	1	EACH	BUSINESS ENTRANCE SIGN	
												LUMP		615	10001	LS		ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN	P.16
		47										47		616	10000	47	MGAL	WATER	
																		INCIDENTALS	
												LUMP		108	30000	LS		CPM PROGRESS SCHEDULE SHORT DURATION PROJECTS	
												LUMP		614	11000	LS		MAINTAINING TRAFFIC	
												7		619	16010	7	MNTH	FIELD OFFICE, TYPE B	
												LUMP		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LUMP		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY
AECOM

DESIGNER JNR
REVIEWER JES 11-16-20
PROJECT ID 109455
SHEET P.24 TOTAL P.163

LOR-83-2.48