

### **DESIGN DESIGNATION**

DESIGN DESIGNATION	<u>S.R. 149</u>
CURRENT ADT (2022)	13500
DESIGN YEAR ADT (2042)	16000
DESIGN HOURLY VOLUME (2042)	1600
DIRECTIONAL DISTRIBUTION	
TRUCKS (24 HOUR B&C)	
DESIGN SPEED	45
LEGAL SPEED	45
DESIGN FUNCTIONAL CLASSIFICATION:	
05 - MAJOR COLLECTOR	
NHS PROJECT	

#### **DESIGN EXCEPTIONS**

NONE

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BEL-149-23.64

#### ADA DESIGN WAIVERS

NONE REQUIRED



## **STATE OF OHIO DEPARTMENT OF TRANSPORTATION**

# BEL-149-23.64

## BELMONT COUNTY UNION TOWNSHIP

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			ST	ANDARD	CONSTR	UCTION	DRAWIN	IGS			SUPPLE SPECIFIC		SPECIA PROVISIO	
	BP-2.1	7/17/15	F-3.4	7/19/13	HL-20.11	1/15/21	TC-12.31	1/21/22	TC-73.20	1/17/20	800-2019	10/15/21	WATERWAY	-
	BP-2.2	1/15/21		1.	HL-30.11	1/15/21	TC-21.21	7/16/21	TC-81.22	7/16/21	809	1/15/21	PERMITS	
	BP-3.1	1/17/20	MGS-1.1	7/16/21	HL-30.21	4/17/20	TC-41.10	7/19/13	TC-83.10	1/17/20	813	10/19/18	CONDITIONS	
ENGINEER'S SEAL:	BP-4.1	7/19/13	MGS-2.1	1/19/18	HL-30.22	1/15/21	TC-41.20	10/18/13	TC-83.20	7/21/17	825	1/17/20		8/23/21
	BP-5.1	7/16/21	MGS-4.2	7/19/13	HL-40.20	7/17/20	TC-41.30	10/18/13	TC-85.20	7/20/18	832	10/19/18		
					HL-60.11	7/21/17	TC-41.40	10/18/13			909	1/15/21		
TE OF ON	CB-3	7/16/21	MH-3	7/16/21	HL-60.12	7/16/21	TC-41.41	7/19/19						
ATE OF O	CB-3A	7/16/21			HL60.31	1/17/20	TC-41.50	10/18/13						
E ( DAVID A. HOFFMAN )			RM-4.2	4/17/20			TC-42.10	10/18/13						
	DM-1.1	7/17/20			MT-97.10	4/19/19	TC-42.20	10/18/13						
Bo REGIONDER SHI	DM-1.2	7/16/21	HW-1.1	7/20/18	MT-98.28	1/17/20	TC-52.10	10/18/13						
E-79007	DM-4.3	1/15/16	HW-2.2	7/20/18	MT-101.60	1/17/20	TC-52.20	1/15/21						
(ALIANCE)	DM-4.4	1/15/16			MT-101.70	1/17/20	TC-61.30	7/19/19						
TOO ALL			HL-10.11	1/15/21	MT-101.90	7/17/20	TC-65.10	1/17/14						
SIGNED: VAA. H	F-2.1	7/20/18	HL-10.12	1/20/17	MT-105.10	1/17/20	TC-65.11	7/21/17						
DATE:	F-3.3	7/19/13	HL-10.13	4/17/20	MT-120.00	1/19/18	TC-71.10	7/16/21						

### FEDERAL PROJECT NUMBER

E190(225)

#### RAILROAD INVOLVEMENT

NONE

#### **PROJECT DESCRIPTION**

IMPROVEMENT TO ±0.10 MILES OF S.R. 149 AND ±0.05 MILES OF EASTBOUND I.R. 70 EXIT RAMP AT THE INTERSECTION OF S.R. 149 AND I.R. 70 EASTBOUND ON/OFF RAMPS AT I.R. 70 EXIT 208. THIS PROJECT INCLUDES NEW TRAFFIC SIGNAL HARDWARE, ANALYSIS OF THE SIGNAL TIMING AND PHASING THROUGH THE S.R. 149 CORRIDOR FROM I.R. 70 TO BOND DRIVE, AND ADDING RIGHT TURN LANES ON NORTHBOUND SR 149 AND THE EASTBOUND I.R. 70 EXIT RAMP.

#### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 1.423 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.4 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 1.8 ACRES

#### LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

#### 2019 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 EXCEPT AS NOTED ON SHEET 8, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED

DATE 11-17-202 DISTRICT DEPUTY DIRECTO

APPROVED. DATE

DIRECTOR, DEPARTMENT OF TRANSPORTATION



SHEET

TITLE

#### UTILITIES

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

COLUMBIA GAS OF OHIO, INC.

WINTERSVILLE, OHIO 43953

ATTN: JOHN MCDOWELL

OFFICE: 1-339-650-8302

ATTN: GENE HELMES

BRIDGEPORT, OH 43912

908 NATIONAL RD.

32699 OLD NATIONAL ROAD

BARNESVILLE, OHIO 43713

ATTN<sup>·</sup> TIMOTHY SEECH

300 LURAY DRIVE

740-266-4282

WINDSTREAM

COMCAST

740-314-5397

AEP OHIO POWER COMPANY ATTN' JEFE TURNER P. O. BOX 99. 47687 NATIONAL ROAD ST. CLAIRSVILLE, OHIO 43950 740-699-7845

AT&T OHIO. INC. ATTN: BARRETT J. TAMOSIVICH 160 NORTH 6TH STREET ZANESVILLE, OHIO 43701 740-454-3552

BELMONT COUNTY SANITARY SEWER DISTRICT ATTN: BRIAN STREET P.O. BOX 457 ST CLAIRSVILLE, OHIO 43950 (740) 695-3144

lsb tot

USER:

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4.03.39

IME:

DATE: 3

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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.

THE OHIO DEPARTMENT OF TRANSPORTATION HAS UTILITY FACILITIES (HIGHWAY LIGHTING AND/OR TRAFFIC SIGNALS) WITHIN THE LIMITS OF THIS PROJECT.

IN ADDITION TO THE INFORMATION OUTLINED IN THIS CONTRACT THE CONTRACTOR SHALL TAKE THE FOLLOWING ACTION TO PROTECT ODOT'S FACILITIES DURING CONSTRUCTION:

HIGHWAY LIGHTING AND/OR TRAFFIC SIGNALS: EVEN THOUGH ODOT IS LISTED AS A MEMBER OF THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE CONTRACTOR IS REQUIRED TO CONTACT ODOT DIRECTLY SO THAT THE ODOT UTILITIES LOCATED WITHIN THIS PROJECT ARE MARKED. THE CONTRACTOR SHALL NOTIFY THE ODOT PROJECT ENGINEER/PROJECT SUPERVISOR, FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF ANY WORK, FOR THE NEED TO MARK ODOT OWNED UTILITIES.

THE ABOVE REQUIREMENTS ARE IN ADDITION TO SECTION 105.07 & 107.16 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY OTHER UTILITIES THROUGH OUPS OR DIRECTLY A MINIMUM OF FORTY-EIGHT HOURS IN ADVANCE OF ANY WORK.

#### INTERIM COMPLETION DATE AND SCHEDULE OF WORK

INTERIM COMPLETION DATE OF OCTOBER 31, 2022 HAS BEEN SET UP FOR COMPLETION OF ALL WORK EXCEPT THE LIGHT POLE AND STRAIN POLE ERECTION INCLUDING MAST ARMS, SIGNAL HEADS, FINAL WIRING, AND EXISTING SIGNAL REMOVAL. FAILURE TO COMPLETE THIS WORK AND OPEN BOTH LANES OF THE ROADWAY TO TRAFFIC BY THE INTERIM COMPLETION DATE WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES FOR ANY DAY BEYOND THE INTERIM COMPLETION DATE AS PER CMS 108.07.

#### TC-12.31 BASE PLATE CONNECTION

ALL REFERENCE ITEMS THAT REFER TO THE TC-12.31 STANDARD DRAWING SHALL HAVE BASE CONNECTION FABRICATED AS PER THE "STANDARD BASE DESIGN" WHICH UTILIZES COMPLETE JOINT PENETRATION (CJP) WELDS.

#### ROUNDING

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

#### EXISTING PLANS

THE FOLLOWING EXISTING PLANS ARE AVAILABLE FOR REFERENCE AT THE DISTRICT 11 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, 2201 REISER AVE, S.E., NEW PHILADELPHIA, OHIO, 44663:

> BEL-149-(0.70-2.83) (1959) BEL-40-7.61 (1963) BEL-149-23.77, PID 76265 (2004) BEL-70-7.61, PID 76825 (2011) BEL-149-23.85, PID 99042 (2015)

IN ADDITION, THE EXISTING PLANS CAN BE FOUND ON THE DEPARTMENT'S WEBSITE AT THE FOLLOWING ADDRESS: http://www.dot.state.oh.us/pub/contracts/attach

#### SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET FOR 'SURVEY CONTROL TABLE' CONTAINING PROJECT CONTROL INFORMATION

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

POSITIONING METHOD: ODOT VRS

MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88 GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011) ELLIPSOID: GRS 1980 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE COMBINED SCALE FACTOR: 1.00004621 ORIGIN OF COORDINATE SYSTEM: (N 0,E 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.

#### PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

#### 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.	THIS OF T AS L ROA TRE SPE MAN
CLEARING AND GRUBBING	
ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A	THE A SH
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	REF THE FOU
INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.	FOU GRC BE A
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FENCE LENGTHS	THE
THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE	ON- TUB
IN ACCORDANCE WITH ITEM 607.	THA
	PAY
ITEM 441 - ASPHALT CONCRETE SURFACE COURSE,	
	PRIC
TYPE 1, (448), AS PER PLAN (PG70-22M)	PRIC
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SURVEY CONTROL TABLE							
STATION	OFFSET	NORTHING	EASTING	ELEV.	REMARKS		
S.R. 149 ~123+84.35	69.04	753495.966	2373749.998	1196.116	ODOT CAP LEVELED		
S.R. 149 ~ 127+46.75	26.46	753171.408	2373918.287	1197.062	ODOT CAP LEVELED		
S.R. 149 ~ 124+21.70	-36.63	753169.360	2373806.228	1192.234	ODOT CAP LEVELED		
S.R. 149 ~ 118+95.50	-32.98	752677.811	2373994.069	1186.148	ODOT CAP LEVELED		
S.R. 149 ~ 96+89.29	CL	750623.088	2374798.154	N/A	POT		
S.R. 149 ~ 126+25.54	CL	753373.108	2373769.099	N/A	PC		
S.R. 149 ~ 134+77.21	CL	754145.681	2373412.543	N/A	PT		
RAMP A ~ 10+50.09	CL	753180.767	2373254.071	N/A	ST		
RAMP A/RAMP B ~ 16+10.15 / 0+00	CL	753273.413	2373806.406	N/A	POT		
RAMP B ~ 1+43.11	CL	753362.544	2373918.371	N/A	РС		

### ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

IIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER DADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END EATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS ECIFIED IN THE PLANS, IN ACCORDANCE WITH THE NUFACTURER'S SPECIFICATIONS.

E FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

FER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING E INSTALLATION OF, AND THE GRADING AROUND THE UNDATION TUBES AND GROUND STRUT. THE TOP OF ANY UNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE ROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO AINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM E EDGE OF THE SHOULDER.

I-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION BES OR TOP OF THE GROUND STRUT DOES PROJECT MORE IAN 4 INCHES ABOVE THE GROUND LINE.

YMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT RICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, ID SHALL INCLUDE ALL LABOR TOOLS FOUIPMENT AND ATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND INCTIONAL ANCHOR ASSEMBLY SYSTEM. INCLUDING ALL LATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, RADING. EMBANKMENT AND EXCAVATION NOT SEPARATELY ECIFIED. AS REQUIRED BY THE MANUFACTURER.

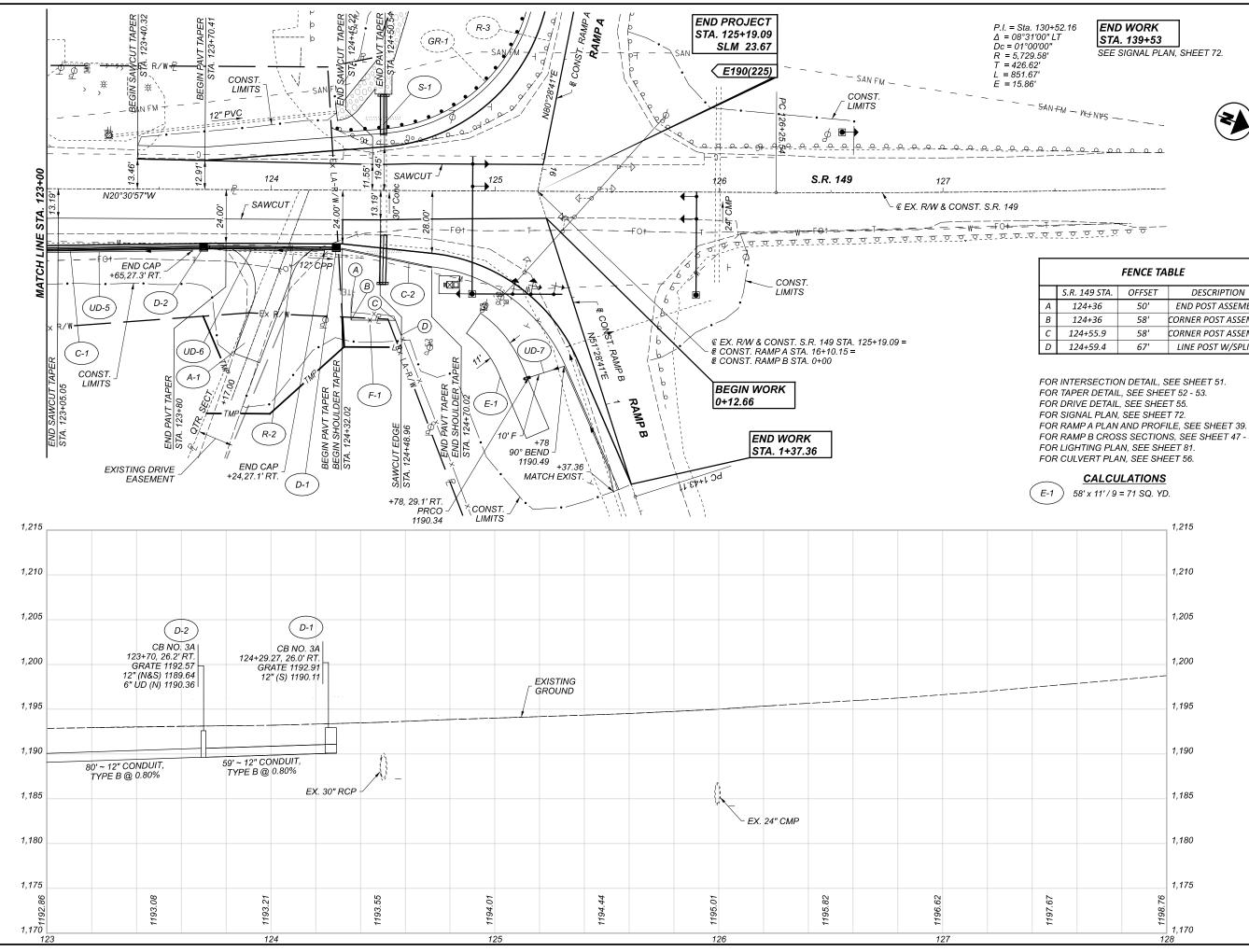
#### ONTRACTION JOINTS IN CONCRETE PAVEMENT OR ASE WIDENING

HERE NEW CONCRETE IS PLACED ADJACENT TO EXISTING ONCRETE, PROVIDE CONTRACTION JOINTS IN THE NEW DNCRETE TO FORM CONTINUOUS JOINTS WITH THOSE IN THE ISTING CONCRETE.

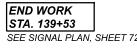
E MAXIMUM DISTANCE BETWEEN THE JOINTS IN THE NEW NCRETE ARE IN ACCORDANCE WITH STANDARD INSTRUCTION DRAWING BP-2.2. IF NECESSARY, ADDITIONAL INTS MAY BE PROVIDED IN THE NEW CONCRETE AT PROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS AT EXCEED THE MAXIMUM SPACING.



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N LIME: DATE (SIZE: 17×11 (in.) BEL-149-23.64 S  $\sim$ 





			FENCE TA	BLE
		S.R. 149 STA.	OFFSET	DESCRIPTION
I	Α	124+36	50'	END POST ASSEMBLY
	В	124+36	58'	CORNER POST ASSEMBLY
	С	124+55.9	58'	CORNER POST ASSEMBLY
	D	124+59.4	67'	LINE POST W/SPLICE

FOR RAMP B CROSS SECTIONS, SEE SHEET 47 - 50.





HORIZONTAL SCALE IN FEET 。 PLAN AND PROFILE SHEET 149 - STA. 123+00 TO STA. 128+00 Ċ ഗ ESIGN AGENC ESIGNER SAH REVIEWE DAH 11-15-21 ROJECT ID 106789 TOTAL SHEET P.27 88