

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

LOCATION MAP

N

LATITUDE: 39°57'05" LONGITUDE: 82°26'18"

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

DESIGN DESIGNATION

CURRENT ADT (20XX)	N/A
DESIGN YEAR ADT (20XX)	<i>N/A</i>
DESIGN HOURLY VOLUME (20XX)	<i>N/A</i>
DIRECTIONAL DISTRIBUTION	<i>N/A</i>
TRUCKS (24 HOUR B&C)	<i>N/A</i>
DESIGN SPEED	<i>N/A</i>
LEGAL SPEED	<i>N/A</i>
DESIGN FUNCTIONAL CLASSIFICATION:	N/A
NHS PROJECT	<i>N/A</i>

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED



LIC-CR 327-0.00

LANCER ROAD SHARED-USE PATH

LICKING TOWNSHIP

LICKING COUNTY

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STANDARD CONSTRUCTION DRAWINGS			SUPP SPECI	LEMENTAL FICATIONS	SPEC PROVI	CIAL SIONS	
-97.10	4/19/19			800	7/19/24	GEOTECHN	IICAL
				823	10/20/23	REPORT	5/30/24
41.20	10/18/13			832	7/21/23		
42.20	10/18/13						
74.10	7/21/23						

FEDERAL PROJECT NUMBER

E240011

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

TO CONSTRUCT A BIKE PATH FROM TERMINUS OF AN EXISTING BIKE PATH AT U.S. 40 TO CRISTLAND HILL ROAD. THIS PROJECT CONSISTS OF 1.22 MILES OF ASPHALT BIKE PATH ON TOP OF AN EXISTING RAILROAD BED IN LICKING COUNTY, OHIO.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 4.05 ACRES 0.0 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: **4.05 ACRES** NOTICE OF INTENT EARTH DISTURBED AREA:

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

Director, Licking Park District

Sturgeon

Jason L. Sturgeon, P.E District 05 Deputy Director

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fack Marchbanks, PhD Director, Department of Transportation









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BENCHMARK TABLE					
POINT NO.	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING	
300	SE ARROW BOLT OF A FIRE HYDRANT ON THE SOUTH SIDE OF US-40 20' SOUTH OF EDGE OF PAVEMENT	951.31	713980.494	1985852.537	
301	BENCH TIE SET IN THE SE SIDE OF A POWER POLE ON THE WEST SIDE OF LANCER ROAD 15' WEST OF EDGE OF PAVEMENT	946.69	713506.881	1985900.988	
302	A CHISELED "X" ON THE WEST SIDE OF A SANITARY MANHOLE CASTING AND 20 FEET EAST OF THE EDGE OF PAVEMENT ON LANCER ROAD	940.49	712987.634	1985926.134	
303	SE FLANGE BOLT, A FIRE HYDRANT ON THE WEST SIDE OF LANCER ROAD 50' WEST OF EDGE OF PAVEMENT	933.64	712377.784	1985798.828	
304	A BENCH TIE SET IN THE SE SIDE OF A POWER POLE ON THE WEST SIDE OF LANCER ROAD 15' WEST OF EDGE OF PAVEMENT	930.32	711814.225	1985791.835	
305	A BENCH TIE SET IN THE SE SIDE OF A POWER POLE ON THE WEST SIDE OF LANCER ROAD 20' WEST OF EDGE OF PAVEMENT	932.71	711240.888	1985775.302	
306	A BENCH TIE SET IN THE SE SIDE OF A POWER POLE ON THE WEST SIDE OF LANCER ROAD 40' WEST OF EDGE OF PAVEMENT	960.25	709523.073	1985674.269	
307	³ / ₄ " PIPE WITH NO CAP SET 0.5' ABOVE EXISTING GROUND AND BEING 25 FEET WEST OF THE CENTERLINE OF LANCER ROAD	945.62	708617.326	1985632.574	
308	BENCH TIE SET IN THE NE SIDE OF A POWER POLE ON THE SOUTH SIDE OF CRISTLAND HILL ROAD AND 20' WEST OF EDGE OF PAVEMENT OF LANCER ROAD, EXTENDED	933.67	707508.650	1985740.849	

CONTROL TABLE				
POINT NO.	RAW DESCRIPTION	ELEVATION	NORTHING	EASTIN
100	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	949.71	714030.100	1985980.
101	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	945.65	713474.654	1985955.
102	⁵ %" IRON PIN SET, RED CAP "OHM TRAV"	936.23	712788.905	1985908.
103	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	928.11	712196.727	1985854.
104	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	927.99	711799.698	1985798.
105	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	930.61	711288.849	1985785.
106	⁵ %" IRON PIN SET, RED CAP "OHM TRAV"	943.56	710614.994	1985749.
107	%" IRON PIN SET, RED CAP "OHM TRAV"	949.36	709974.512	1985716.
108	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	959.05	709472.349	1985719.
109	⁵ %" IRON PIN SET, RED CAP "OHM TRAV"	960.00	708940.767	1985651.
110	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	943.62	708591.160	1985633.
111	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	927.64	707966.480	1985622.
112	⁵ / ₈ " IRON PIN SET, RED CAP "OHM TRAV"	933.23	707557.152	1985602.

<u>CURVE DATA 3</u>
P.I. = STA. 257+75.60
$\Delta = 05^{\circ}00'00'' RT$
Dc = 71°37'11"
R = 80.00'
T = 3.49'
L = 6.98'
E = 0.08'

<u>CURVE DATA 2</u> P.I. = STA. 201+66.31 $\Delta = 07^{\circ}24'31'' RT$ $Dc = 95^{\circ}29'35''$ R = 60.00'

T = 3.88' L = 7.76'

E = 0.13'

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 $\frac{CURVE DATA 4}{P.I. = STA. 258+90.33}$ $\Delta = 05^{\circ}00'00'' LT$ $Dc = 71^{\circ}37'11''$ R = 80.00' T = 3.49' L = 6.98'E = 0.08' $\frac{CURVE \ DATA \ 5}{P.I. = STA. \ 260=64.39}$ $\Delta = 05^{\circ}00'00 \ LT$ $Dc = 71^{\circ}37'11''$ R = 80.00' T = 3.49' L = 6.98'E = 0.08' $\frac{CURVE DATA 6}{P.I. = STA. 261+79.12}$ $\Delta = 05^{\circ}00'00'' RT$ $Dc = 71^{\circ}37'11''$ R = 80.00' T = 3.49' L = 6.98'E = 0.08'





NG 0.174 5.931 3.407 4.598 3.028 5.313 9.074 5.452 9.944 1.829 3.789 2.666 2.384



<u>LEGEND</u>

(1) ITEM 823 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22

(2) ITEM 407 - NON-TRACKING TACK COAT (0.06 GAL/SY)

(3) ITEM 823 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)

(4) ITEM 304 - 6" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM 659 - SEEDING AND MULCHING

(7) ITEM 304 - 8" AGGREGATE BASE

(8) ITEM 441 - 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, 449 (DRIVEWAYS)

(9) ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, 449, (DRIVEWAYS)

(10) ITEM 301 - 4" ASPHALT CONCRETE, BASE COURSE

(1) ITEM 204 - GRANULAR MATERIAL TYPE C

(12) ITEM 204 - GEOGRID

* OR AS SHOWN ON THE CROSS SECTIONS

6) 4.0' ROUNDING (TYP.)





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5' TO 7'	FROM STA. 253+00
7'	FROM STA. 253+50
7' TO 5'	FROM STA. 254+50

cdekle USER: TIME: 2:57:14 PM 10/10/2024 DATE: SUP\O x22 (in.) - CR327 CR327-0.00

00 TO STA. 253+50 50 TO STA. 254+50 50 TO STA. 255+00

3'







- (1) ITEM 823 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- (2) ITEM 407 NON-TRACKING TACK COAT (0.06 GAL/SY)
- (3) ITEM 823 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
- (4) ITEM 304 6" AGGREGATE BASE
- 5 ITEM 204 SUBGRADE COMPACTION
- 6 ITEM 659 SEEDING AND MULCHING
- (7) ITEM 304 8" AGGREGATE BASE
- (8) ITEM 441 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, 449 (DRIVEWAYS)
- (9) ITEM 441 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, 449, (DRIVEWAYS)
- 10 ITEM 301 4" ASPHALT CONCRETE, BASE COURSE
- (11) ITEM 204 GRANULAR MATERIAL TYPE C
- 12) ITEM 204 GEOGRID
- * OR AS SHOWN ON THE CROSS SECTIONS

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10/10/2024

DATE: SLIDVO



NORMAL DITCH SECTION STA. 209+50.00 TO STA. 218+90.00



SEE DRIVE DETAIL SHEETS FOR SPECIFIC DRIVE DESIGN



SECTIONS TYPICAL

UTILITIES

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

AMERICAN ELECTRIC POWER

777 HOPEWELL DRIVE HEATH, OHIO 43056 (740) 349-4011 ATTN: JEFF VANDINE JWVANDINE@AEP.COM CC: DAVID HOWILER DAHOWILER@AEP.COM

NATIONAL GAS AND **OIL COOPERATIVE** 120 O'NEIL DRIVE HEBRON, OHIO 43025 (740) 641-8751 ATTN: WILL POLING WPOLING@THEENERGYCOOP.COM

LICKING COUNTY WATER AND WASTEWATER DEPARTMENT

P.O. BOX 845 4455 WALNUT RD., UNIT A BUCKEYE LAKE, OHIO (740) 928-0349 ATTN: KEVIN EBY KEBY@LCOUNTY.COM

SPECTRUM CABLE TV

3760 INTERCHANGE DRIVE COLUMBUS, OHIO 43204 (740) 322-6703 ATTN: BRIAN AMENDE BRIAN.AMENDE@CHARTER.COM

CHARTER COMMUNICATIONS

111 NORTH 11TH STREET NEWARK, OHIO 43055 (740) 322-6703 **ATTN: JOHN MOHLER** JOHN.MOHLER@CHARTER.COM CC: CRAIG OMEN CRAIG.OMEN@CHARTER.COM

WINDSTREAM COMMUNICATION

776 HOPEWELL DRIVE HEATH, OHIO 43056 (740) 562-7685 ATTN: TROY KENILY TROY.KENILY@WINDSTREAM.COM

COLUMBIA GAS OF OHIO

2429 LINDEN AVENUE ZANESVILLE, OHIO 43701 (740) 258-0701 ATTŃ: REAGAN RICHARDSON REAGANRICHARDSON@NISOURCE.COM

AMERICAN ELECTRIC POWER (DISTRIBUTION)

38831 STATE ROUTE 7 REEDSVILLE, OHIO 45772 (740) 985-3054 ATTN: CLARKE SAUNDERS CMSAUNDERS@AEP.COM

AEP SOLUTION CENTER (SERVICES AND STREET LIGHTING)

1-800-277-2177

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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL POSITIONING METHOD: GPS MONUMENT TYPE: TYPE B, MAG NAILS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88 GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE (3401) ORIGIN OF COORDINATE SYSTEM: N/A

COMBINED SCALE FACTOR: NO SCALE FACTOR USED, PROJECT IN GRID COORDINATES

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 SUPPLEMENTAL SPECIFICATION 823.

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

CONSTRUCTION NOISE

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ONSTRUCTION NOISE	FARM DRAINS	SEEDING AND MULCHING
CTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE FFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE NY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE	PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH	THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:
OWER-OPERATED CONSTRUCTION TYPE DEVICES BETWEEN THE OURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE T ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE	ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)(CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE	659, SOIL ANALYSIS TEST1 EACH659, TOPSOIL815 CU YD.659, SEEDING AND MULCHING7340 SQ. YD.659, BEDAIR SEEDING AND MULCHING267 SO. YD
EXEMPTION SUBSTAILTING EXCEEDS THE NOISE COSTOMARILY AND ECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT ERFORMANCE OF SUCH EQUIPMENT.	OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY	659, REPAIR SEEDING AND MOLCHING367 SQ. YD.659, INTER-SEEDING367 SQ. YD.659, COMMERCIAL FERTILIZER1.02 TON659, LIME1.52 ACRES
	DITCHES INTO THE ROADWAY.	659, WATER 42 M. GAL.
VORK LIMITS	DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE	SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF
HE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL ONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND PERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS	ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.	EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT- OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MUI CHING ARE BASED ON THESE LIMITS.
OUNDING	THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.	SITE PREPERATION FOR SEEDING AND MULCHING
HE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL ECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.	PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.	IN ADDITION TO THE REQUIREMENTS OF 659.10, IN MAINTAINED LAWN AREAS REMOVE ALL STONE LARGER THAN $\frac{1}{2}$ -INCH BY RAKING OR OTHER METHODS APPROVED BY THE ENGINEER. IF
LEARING AND GRUBBING	PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY	THERE IS EXCESSIVE GRAVEL OR DEBRIS THAT CANNOT BE REMOVED BY CONVENTIONAL METHODS, PROVIDE 4-INCHES OF
EMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR EMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP UM BID FOR ITEM 201. CLEARING AND GRUBBING. THE	BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.	TOPSOIL AT NO ADDITIONAL COST TO THE LICKING PARK DISTRICT OVER THESE AREAS. TOPSOIL SHALL BE FERTILE, LOOSE, ERIABLE, AND LOAMY AND NOT CONTAIN DEBRIS OR PARTICLES
OLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF REES AND STUMPS TO BE REMOVED.	THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:	LARGER THAN 1/2-INCH IN ANY DIMENSION. TOPSOIL SHALL CONTAIN BETWEEN 6 AND 20 PERCENT ORGANIC MATERIAL AND NO MORE THAN 18% MOISTURE. TEST TOPSOIL ACCORDING TO SUPPLEMENT 1016
SIZES NO. TREES NO. STUMPS TOTAL	611 4" CONDUIT, TYPE E 50 FT.	
18" 14 7 21	6116 CONDUIT, TYPE E 50 FT. 611 8" CONDUIT, TYPE E 50 FT.	ENDANGERED BAT HABITAT REMOVAL
30" 0 1 1	601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 8 CU. YD.	THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND
48" 0 0 0	REVIEW OF DRAINAGE FACILITIES	NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30.
60" 0 0	PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING	ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED
ENCHING OF FOUNDATION SLOPES	DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD	OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN
OR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS N CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS	OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.	SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.
ET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND ATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT VILL BE MADE FOR BENCHING REQUIRED UNDER THE ROVISIONS OF SECTION 203.05.	CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.	
MBANKMENT IN EXISTING DITCH SECTION	PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED	
VHERE NEW EMBANKMENT WILL BE PLACED OVERTOP EXISTING DITCHES, XCAVATE THE DITCH BOTTOM PER THE OHIO DEPARTMENT OF	IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.	
RANSPORTATION GEOTECHNICAL DESIGN MANUAL SECTION 500.	ITEM 204 - PROOF ROLLING	
	THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.	
	ITEM 204 - PROOF ROLLING 6 HOUR	

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SEEDING AND MULCHING

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ESIGN AGENCY



CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, 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.

CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL PLACE CONSTRUCTION LAYOUT STAKES, CONFORMING TO THE REQUIREMENTS OF ITEM 623, CONSTRUCTION LAYOUT STAKES, AS LISTED IN THE ODOT CMS.

DETECTABLE WARNINGS

DETECTABLE WARNINGS SHALL BE INSTALLED AND PAID FOR AS DESCRIBED IN SCD BP-7.1. THE COLOR SHALL BE "BRICK RED". THE MANUFACTURER SHALL BE SELECTED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S (ODOT) APPROVED DETECTABLE WARNING PRODUCT LIST. INSTALL PRODUCT AS PER MANUFACTURER'S PRINTED INSTRUCITONS.

ITEM 407 - NON-TRACKING TACK COAT

THE ENGINEER SHALL ADJUST THE RATE OF APPLICATION IN THE FIELD OF THE 407 TACK COAT AS NEEDED (SEE ODOT CMS TABLE 407.06-1 FOR ALLOWABLE RANGES). FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITES INDICATE AN AVERAGE APPLICATION RATE FOR THE ITEMS. DO NOT ORDER MATERIALS FOR THESE ITEMS UNLESS AUTHORIZED BY THE ENGINEER.

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.
- SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE

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.

- FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

- OR PAVED MEDIANS.
- 6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO *C&MS 204.06 TO VERIFY STABILITY.*

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

3. COMPACT THE SUBGRADE ACCORDING TO C&MS 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

5. 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,

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

VERAL NOTES
GEN
DESIGN AGENCY
DESIGNER CLD REVIEWER BLS 07/01/24 PROJECT ID 117100 SHEET TOTAL
6 56

NOTIFICATIONS AND CONTACTS	SEQUENCE OF CONSTRUCTI MAINTENANCE (CONTINUE
THE CONTRACTOR SHALL NOTIFY LICKING COUNTY IN WRITING AND VIA TELEPHONE AT LEAST 18 DAYS PRIOR TO THE BEGINING OF CONSTRUCTION ACTIVITIES AND AT LEAST SEVEN (7) DAYS PRIOR TO A	LANCER ROAD / LAKEWOOI
SWITCH IN TRAFFIC PATTERN. INCLUDED IN THE NOTIFICATION SHALL BE	
THE DROJECTED DATES AND TIME ERAMES OF ANY ROAD CLOUSPES	
THE PROJECTED DATES AND TIME FRAMES OF ANY ROAD CLOUSRES.	
SEQUENCE OF CONSTRUCTION AND METHODS OF TRAFFIC MAINTENANCE	RRFBS. THE CONTRACTOR SI
	WORKING DAY TO ALLOW V
ALL WORK DESCRIBED BELOW SHALL BE CONSTRUCTED DURING OFF-	
PEAK HOOKS. NO OVERNIGHT WORK IS ALLOWED.	
I ANCER BOAD / CRISTI AND HILL BOAD INTERSECTION	97 10
	57.10.
WHEN REQUIRED DUE TO CONSTRUCTION ACTIVITIES, TWO-WAY, ONE-	
LANE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ODOT	LANCER ROAD / US 40 INTE
STANDARD CONSTRUCTION DRAWING MT-97.10 FOR LANCER ROAD FOR	
THE CONSTRUCTION OF THE SHARED-USE PATH. THE CONTRACTOR	WHEN REQUIRED DUE TO CO
SHALL REMOVE DRUMS AT THE END OF EACH WORKING DAY TO ALLOW	LANE TRAFFIC SHALL BE MA
VEHICLES TO TRAVEL IN THE EXISTING LANES.	STANDARD CONSTRUCTION
	THE CONSTRUCTION OF THE
THE CONTRACTOR SHALL PLACE THE FINAL PAVEMENT MARKINGS	CONTRACTOR SHALL REMO
DURING OFF-PEAK HOURS WHILE MAINTAINING TRAFFIC IN	DAY TO ALLOW VEHICLES TO
ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-	
97.10.	THE CONTRACTOR SHALL PL
	DURING OFF-PEAK HOURS V
	ACCORDANCE WITH ODOT S
LANCER ROAD / LAKEWOOD HIGH SCHOOL ENTRANCE DRIVE INTERSECTION	97.10.
WHEN REQUIRED DUE TO CONSTRUCTION ACTIVITIES, TWO-WAY, ONE-	WORK HOUR DESCRIPTION
LANE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ODOT	
STANDARD CONSTRUCTION DRAWING MT-97.10 FOR LANCER ROAD FOR	OFF-PEAK HOURS ARE DEFIN
THE CONSTRUCTION OF THE SHARED-USE PATH AND DRIVE APRON. THE	AM AND 3:00-6:00 PM (MO
CONTRACTOR SHALL REMOVE DRUMS AT THE END OF EACH WORKING	
DAY TO ALLOW VEHICLES TO TRAVEL IN THE EXISTING LANES.	
	ITEM 614, MAINTAINING TR
THE CONTRACTOR SHALL PLACE THE FINAL PAVEMENT MARKINGS	
DURING OFF-PEAK HOURS WHILE MAINTAINING TRAFFIC IN	THE CONTRACTOR SHALL BE
ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-	MAINTAINING, AND SUBSEC
97.10.	BARRICADES, BARRIERS, AN
	FOR THE PURPOSES OF MAI
I ANCER ROAD / LAKEWOOD HIGH SCHOOL EXIT DRIVE INTERSECTION	ΙΕ ΤΗΕ CONTRACTOR SO ELE
	METHODS FOR THE MAINTE
WHEN REQUIRED DUE TO CONSTRUCTION ΔΟΤΙΛΙΤΙΕς ΤΙΛΙΟ-ΙΛΙΔΥ ΟΝΕ-	
LANE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ODOT	
STANDARD CONSTRUCTION DRAWING MT-97 10 FOR LANCER ROAD FOR	
	BY THE ENGINEER
DAY TO ALLOW VEHICLES TO TRAVEL IN THE EXISTING LANES.	
	THE CONTRACTOR IS RESPO
THE CONTRACTOR SHALL PLACE THE FINAL PAVEMENT MARKINGS	DRAINAGE AND MAY BE REC
DURING OFF-PEAK HOURS WHILE MAINTAINING TRAFFIC IN	DRAINAGE STRUCTURES TO
ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-	ANY TEMPORARY DRAINAGI
97.10.	OBTAIN WRITTEN APPROVA
	ALL LABOR, EQUIPMENT, M
	INCIDENTALS FOR TEMPORA
	THE LUMP SUM CONTRACT
	TRAFFIC.
	IT IS INTENDED THAT BOTH
	WILL REMAIN AT ALL TIMES
	ACTIVITIES. IN THE EVENT T

ONSTRUCTION AND METHODS OF TRAFFIC (CONTINUED)

LAKEWOOD HIGH SCHOOL DRIVE INTERSECTION

D DUE TO CONSTRUCTION ACTIVITIES, TWO-WAY, ONE-IALL BE MAINTAINED IN ACCORDANCE WITH ODOT STRUCTION DRAWING MT-97.10 FOR LANCER ROAD FOR ION OF THE SHARED-USE PATH, DRIVE APRON, AND TRACTOR SHALL REMOVE DRUMS AT THE END OF EACH TO ALLOW VEHICLES TO TRAVEL IN THE EXISTING LANES.

OR SHALL PLACE THE FINAL PAVEMENT MARKINGS **AK HOURS WHILE MAINTAINING TRAFFIC IN** /ITH ODOT STANDARD CONSTRUCTION DRAWING MT-

US 40 INTERSECTION

D DUE TO CONSTRUCTION ACTIVITIES, TWO-WAY, ONE-ALL BE MAINTAINED IN ACCORDANCE WITH ODOT STRUCTION DRAWING MT-97.10 FOR LANCER ROAD FOR ION OF THE SHARED-USE PATH AND RRFBs. THE IALL REMOVE DRUMS AT THE END OF EACH WORKING EHICLES TO TRAVEL IN THE EXISTING LANES.

OR SHALL PLACE THE FINAL PAVEMENT MARKINGS **AK HOURS WHILE MAINTAINING TRAFFIC IN** ITH ODOT STANDARD CONSTRUCTION DRAWING MT-

S ARE DEFINED AS ANY PERIOD OTHER THAN 6:00-9:00 00 PM (MONDAY THRU FRIDAY) AND LEGAL HOLIDAYS.

TAINING TRAFFIC

BY THE ENGINEER.

DR SHALL BE RESPONSIBLE FOR PROVIDING, ND SUBSEQUENT REMOVAL OF ALL SIGNS, RRIERS, AND OTHER INCIDENTALS NECESSARY SES OF MAINTAINING TRAFFIC.

TOR SO ELECTS, HE MAY SUBMIT ALTERNATE HE MAINTENANCE OF TRAFFIC, PROVIDED THE OVISIONS HEREIN ARE FOLLOWED, AND NO CONVENIENCE TO THE TRAVELING PUBLIC ROM. NO ALTERNATE PLAN SHALL BE PLACED TIL APPROVAL HAS BEEN GRANTED IN WRITING

OR IS RESPONSIBLE TO PROVIDE POSITIVE MAY BE REQUIRED TO PLACE TEMPORARY CTURES TO ENSURE PROPER DRAINAGE. BEFORE Y DRAINAGE IS PLACED, THE CONTRACTOR SHALL N APPROVAL FROM THE ENGINEER. PAYMENT FOR IPMENT, MATERIALS, AND ALL OTHER R TEMPORARY DRAINAGE SHALL BE INCLUDED IN CONTRACT PRICE FOR ITEM 614 MAINTAINING

HAT BOTH LANES OF COUNTY RD 327 (LANCER RD) ALL TIMES WHEN NOT IMPACTED BY CONSTRUCTION HE EVENT THE CONTRACTOR NEEDS TO CLOSE A LANE TO MOVE EQUIPMENT OR MATERIALS TO/FROM THE SITE THE LANE SHALL BE CLOSED USING FLAGGERS PER MT-97.10 AND AS APPROVED

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

IN THE EVENT THAT THE CONTRACTOR DETERMINES IT NECESSARY TO
CLOSE BOTH LANES OF COUNTY RD 327 (LANCER RD) FOR ACTIVITIES
THAT PRESENT A SAFETY HAZARD TO THE TRAVELING PUBLIC, THE
CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AT LEAST 14
DAYS PRIOR TO THE REQUESTED CLOSURE PERIOD. NO OVERNIGHT
WORK IS PERMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
SUBMITTING A DETOUR PLAN TO THE ENGINEER, AND FOR PROVIDING,
MAINTAINING, AND SUBSEQUENT REMOVAL OF ALL SIGNS, PORTABLE
CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRIERS, AND OTHER
INCIDENTALS NECESSARY FOR THE PURPOSE OF MAINTAINING
TRAFFIC DURING THE CLOSURE. NO CLOSURE SHALL BE PLACED INTO
EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE
ENGINEER.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES. UNLESS SUCH STRIKES ARE AREA-WIDE.

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.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST **CONTROL PURPOSES:**

5 M. GAL ITEM 616 WATER

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE. WHEN NO LONGER NEEDED. A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, **14 SIGN MONTHS** AS PER PLAN (2 SIGNS, 7 MONTHS EACH)

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (CONTINUED)

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND **OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO** OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

ESIGN AGENCY



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IODEL: GENSUM2 PAPERSIZE: 34x22 (in.) DATE: 8/16/2024 TIME: 10:56:56 AM USER: cdekle :\6501 6999\6695230010 Lancer Rd - CR327 SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100 GG001.dgr

						SHEE	Γ NUM.			 PA	RT.	T-T-F N #	ITEM	GRAND		
	5	7	10	47	52					01/ENH/ 21/LCPD	02/ENH/ 21/LCPD		EXT	TOTAL	UNIT	
					4						4	630	97700	4	EACH	TRAFF SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RA
					28						28	644	00400	28	FT	CHANNELIZING LINE, 8"
					15						15	644	00500	15	FT	STOP LINE
					457						457	644	00620	457	FT	CROSSWALK LINE, 12"
					220				 	 	220	644	00630	220	FT	CROSSWALK LINE, 24"
					4						4	644	01300	4	EACH	LANE ARROW
																ΜΔΙΝΤ
		14								3	11	614	18601	14	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLA
		5								5		616	10000	5	MGAI	WATER
										_						
										LS		614	11000	LS		MAINTAINING TRAFFIC
										LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING
										LS		624	10000	LS		MOBILIZATION
-																
-																
\vdash																
-				1												
\vdash																
-								 	 	 						

		-
DESCRIPTION	SEE SHEET NO.	
TRAFFIC CONTROL (CONT.) ILAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	53	
MAINTENANCE OF TRAFFIC		
ER PLAN	7 7	
INCIDENTALS	7	
ING	6	AARY
		SUMN
		IERAL
		GEN
		DESIGN AGENCY
		DESIGNER RRV REVIEWER CLD 08/16/24
		PROJECT ID 117100 SHEET TOTAL
		9 56

								204	201	204	204	407	111	111	609	609	609	600	000	012	
								204	4		304	407	441	441	000	000	000	009	023	025	
STATI	ON RANGE	REF NO.	SHEET NO.	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	SUBGRADE COMPACTION	ASPHALT CONCRETE BASE, PG62 22 (449)	AGGREGATE BASE	AGGREGATE BASE	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449), (DRIVEWAYS)	4" CONCRETE WALK	CURB RAMP	DETECTABLE WARNING	CURB, TYPE 6	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)	
				FT	FT	SQ YD	SQ YD	SY	CY	СҮ	CY	GAL	СҮ	CY	SF	SF	SF	FT	CY	CY	
200+11.15	TO 212+83.48	P1	16-17	1272.33	10.00	1413.70		1838		260		85							50	69	
212+83.48	248+44.35	P2	17-19	3560.87	10.00	3956.52		5144		726		238							138	193	
248+71.84	253+77.63	P3	19-20	505.79	10.00	561.99		731		104		34							20	28	
254+10.25	259+37.21	P4	20	526.96	10.00	585.51		762		108		36							21	29	
259+93.23	264+40.65	P5	20-21	447.42	10.00	497.13		647		92		30							18	25	
223+09 86	223+66 53	D1	17	56 67			99.58	100		17			6								
228+14.65	228+30.99	D1 D2	18	16.34			71.18	72		12			4								RY
248+44.35	248+71.84	D3	19	27.49			224.85	225	25		50	14	10	11							A A
253+77.63	254+10.25	D4	20	32.62			213.49	214	24		48	13	9	11							
259+37.21	259+93.23	D5	20	56.02			442.97	443	50		99	27	19	22							
					10.00																-SI
200+11.15	200+13.15	DW1	16	2.00	10.00												20) B
204+33.84	204+35.84		21	2.00	10.00												20				SL
259+89.08	260+00 12	SW1	20	11 04		0.00									109.00	92 60	26.00	20.00			
	200,00112			11.01		0.00									100.00	02.00	20.00	20.00			
																					D/D/
																					O P O
																					R
							SUBTOTALS	10176.00	99.00	0 1319.00	197.00	477.00	48.00	44.00	109.00	92.60	66.00	20.00	247.00	344.00	
				TOTALS	GARRIED	IO GENERAL	_ SUMMARY	10176	99	1319	197	4//	48	44	109	93	66	20	247	344	
														202	202	C11	C11	C11	C11		
														202	202	611	611	611	611		
														ER					ЭЕ		
														N N N	"4"				RAI		
															ER 2				0		
														AN	ΝΟ	L I	TYF	TYF			
								REF S	HEET			στατιών		24"	ED,)IT,) IT,)IT,	ISTE		
								NO.	NO.		STATION TO	JIAHON		ED,	0	NDI	NDI	NDI			
															EM	O O	CO CO	0	Ц Ч Ч		
														E V	ЭЕР	12"	18"	24"	НОН		
															Ш				ANI		
														Ы					Σ		DESIGN AGENCY
														FT	FT	FT	FT	FT	FACH		
								DP1	17	223+08.09		223+68.3	32	60		60					
								DP2	18	228+05.57		228+45.5	52	40		40					
								DP3	19	248+11.94		249+02.5	59		91			91			
								DP4	20	253+37.98		254+48.8	89			400	111				DESIGNER
									20	259+10.42		260+27.6	5/	122		122			1		
								SS1 SS2	20	240+00.84 250+59 97											CLD 08/16/24
								SS3	20	254+30.15									<u> </u>		PROJECT ID
																			<u>~</u>		11/100 Sheet totai
							Т			NERAL SUMMAR	Y	1		333	91	222	111	91	3		10 56

cdekle USER: DATE: 8/16/2024 TIME: 10:56:56 AM SUP\ODOT\117100\400-Fnoineerino\F x22 (in.) - CR327 LIC-CR327-0.00 č č

	204	30	304	304	407	441	441	608	608	608	609	823	823	
	SUBGRADE COMPACTION	ASPHALT CONCRETE BASE, PG64-	AGGREGATE BASE	AGGREGATE BASE	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	4" CONCRETE WALK	CURB RAMP	DETECTABLE WARNING	CURB, TYPE 6	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
)	SY	CY	CY	CY	GAL	CY	CY	SF	SF	SF	FT	CY	CY	
	1838 5144		726		238							138	193	-
	731		104		34							20	28	-
	647		92		30							18	29 25	
	100		17			6								2
	225	25	12	50	14	4 10	11							AAI
) ,	214	24		48	13 27	9 19	11 22							Σ
										20				JB-SU
														Y SI
								109.00	92.60	26.00	20.00			NA N
														AD/
														RO
LS	10176.0	0.00	0 1319.0	00 197.00	477.00	48.00	44.00	109.00	92.60	66.00	20.00	247.00	344.00	
RY	10176	6 99	1319	197	477	48	44	109	93	66	20	247	344	-
							202	202	611	611	611	611		-
	REF NO.	SHEET NO.		STATION TO) STATION		E REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	12" CONDUIT, TYPE D	18" CONDUIT, TYPE D	24" CONDUIT, TYPE D	ANHOLE ADJUSTED TO GRADE		
							FT	FT	FT	FT	FT	EACH		DESIGN AGENCY
	DP1	17	223+08.09		223+68.3	2	60		60					
	DP2 DP3	18 19	228+05.57 248+11.94		228+45.5	9	40	91	40		91			
	DP4	20	253+37.98		254+48.8	9	111		400	111				DESIGNER
	SS1	20 19	259+10.42 246+88.84		260+27.6)/	122		122			1		RRV REVIEWER
	SS2	20	250+59.97									1		CLD 08/16/24 PROJECT ID
	553	20	254+30.15									1		117100 SHEET TOTAI
TC	TALS CAF	RIED TO GE	NERAL SUMM	1ARY			333	91	222	111	91	3		10 56



TUDE		EDA TREATMENT
END	WIDTH (FT)	CREDIT (AC)
)449485/ 4387671	± 17.1	0.31
9533372/ 4381841	± 10.4	0.02
9558039/ 4380022	± 11.2	0.19
9568981/ 4378745	± 18.5	0.16
9587523/ 4377632	± 13.9	0.13
ATMENT P	PROVIDED	0.81
ATMENT R	REQUIRED*	0.81



POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES (BMPS) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIPS

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.



TYPICAL FILTER STRIP SECTION

PROJECTS THAT ARE ASSOCIATED WITH ONLY PEDESTRIAN FACILITIES MAY USE NARROW VEGETATED FILTER STRIPS TO MEET THE POST CONSTRUCTION BMP REQUIREMENTS. NO QUANTITY TREATMENT IS REQUIRED. THE WIDTH OF THE VEGETATED FILTER STRIPS MUST BE EQUAL TO THE WIDTH OF THE CONTRIBUTING PATH (10').

EXISTING VEGETATION

SOME OF THE LAND WITHIN THE PROJECT LIMITS CONSISTS OF DENSE VEGETATION AND SUITABLE WOODED HABITAT FOR BATS AND OTHER LOCAL ANIMAL POPULATIONS, THE DESIGN INTENT IS TO NOT REMOVE THE EXISTING ENVIRONMENT THAT ALREADY ACTS AS A NATURAL WATER QUALITY TREATMENT SYSTEM ONLY TO REPLACE IT WITH A MANMADE VEGETATED FILTER STRIP. THE EXISTING DENSELY VEGETATED AND WOODED AREAS HATCHED IN THE PLAN AND PROFILE SHEETS WILL SERVE AS A NATURAL, IN PLACE BMP WATER QUALITY TREATMENT SYSTEM.

IN ADDITION, SOME OF THE LAND WITHIN THE PROJECT LIMITS CONSISTS OF ESTABLISHED GRASS AREA THAT ALSO ACTS AS A NATURAL WATER QUALITY TREATMENT SYSTEM. THIS AREA DELINEATED ON THE PLAN AND PROFILE SHEETS WILL SERVE AS A NATURAL, IN PLACE BMP WATER QUALITY TREATMENT SYSTEM. CARE SHOULD BE TAKEN TO AVOID DISTURBING THIS AREA.



10DEL: Tree 1 PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 9:58:34 AM USER: cdekle :\6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\0D0T\117100\400-Engineering\Roadway\Sheets\117100_GP001.dgn









0DEL: Tree 2 PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 9:58:56 AM USER: cdekle 6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001









2

IODEL: Tree 3 PAPERSIZE: 34x22 (in.) DATE: 10/10/2024 TIME: 2:58:55 PM USER: cdekle \6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001.dgn

TREE REMOVAL TABLE

	1	8"	3	כיי	4	8"	60)" +
SHEET #	TREES	STUMPS	TREES	STUMPS	TREES	STUMPS	TREES	STUMPS
13	14	2	0	1	0	0	0	0
14	0	5	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
TOTALS CARRIED TO GENERAL NOTES	14	7	0	1	0	0	0	0

MODEL: CLP_LANCER_SUP - Plan 1-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 10:58:53 AM USER: cdekle P:\6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001.

4	936.99	I Elev. 936.00		936.2
	937.52			936.
	937.77			936.
20	938.16			936.8
5	938.43			937.1
	938.59			937.
	938.77	-+0.84		937.4
20	938.99	%		937.(
6	939.04			937.
	939.26			938.
	939.84	—— <u>)</u> DE		938.
20	939.00			938.
7	939.52			938.
	939.88	0 VPI 207+50	00.	938.
	940.21	Elev. 93	:.94 (VE)	939.
20	940.63			939.9
8	941.18			940.4
	941.67	_+1		940.9
	942.07	.98% _		941.
209	942.47			941.
9	942.81			942.
	943.13			942.9
	943.74	Eler	9+65.00 . 943.20 CLIRVE	943.
210	944.41			944.3
)	944.62	+3		945.2

212+50.00

STA.

200+00.00 TO

STA

DESIGN AGENCY

OHM

DESIGNER

SEH

REVIEWER CLD 08/16/24

PROJECT ID 117100

 SHEET
 TOTAL

 16
 56

PLAN AND PROFILE

<u>LEGEND</u>

PR VEGETATIVE FILTER STRIP EXISTING DENSE VEGETATION (DO NOT DISTURB)

0	ŝ	N	0	N	0		N	~	0	980
	946.03	946.87	947.70	948.17	948.63	949.10	949.57	950.05	950.50	
										970
			11+00.00	v. 947.70 7 CURVE)				יו 212+50.00 Elev. 950.50	(NO CURVE)	960
			'PI 2	Ele (N(17		
			>			+1.87	%		_	950
3 3	33%		~							
-		7-2								
										940
_	EX.	GRADE								
		979797998899979798899816977024597 <u>82239782888888888888888</u>		*****					_	930
										020
				1911)18311104118502201022000220000020					_	920
										910
										900
ĺ,	1	4	Ţ	0	2	8	0	8	5	
	144.8	146.6	146.2	146.7	146.8	146.5	47.5	147.6	148.3	000
	01	0)	21	01 11	01	01	21.	2	01	890

eet] PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 10:59:13 AM USER: cdekle
__CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001. 2-2 [Sho Per Rd LANCER CLP MODEL: --\6501

225+00.00 PLAN AND PROFILE STA. 212+50.00 TO STA DESIGN AGENCY OHM DESIGNER SEH REVIEWER CLD 08/16/24 PROJECT ID 117100

SHEET TOTAL **17 56**

MODEL: CLP_LANCER_SUP - Plan 3-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 10:59:26 AM USER: cdekle P:\6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001.

9			230	0			23	1	- 1	· · · · · · · · · · · · · · · · · · ·	23	32			23	3			23	4			23
945.02	944.56	944.40	944.05	943.90	943.21	942.81	942.60	942.13	941.95	941.69	941.31	941.03	940.78	940.23	940.03	939.37	939.24	939.13	938.71	938.52	938.19	937.87	937.70
					977720007000000000																		
									**************************************									PR. GR	RADE				
						,			570			┢	_				<u>1.65</u>	%					
-1.7(0%				VPI	H (-1 2	3%		C Id/	Ele (NG					EX.	GRADE	٦			1 234+8	Elev. 93 (NO CUF
					230+50.0	Elev. 943.1 NO CURVI					32+05 00	v. 941.24) CURVE)										00.00	6.70 RVE)
					00	5																	
145.28	944.85	944.43	44.00	143.58	943.15	942.84	942.53	942.23	941.92	941.61	41.30	940.91	40.50	40.08	39.67	39.26	38.85	38.43	38.02	37.61	37.20	36.78	36.55

eet] PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 10:59:38 AM USER: cdekle -_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001. 4-2 [Sho er Rd LANCER MODEL: CLP_

	S	GRA		
	733.YI	DE		932.31
24	933.78			932.25
12	933.56			932.12
	933.18			932.00
	932.95			931.87
24	932.41			931.75
3	932.23			931.62
	932.12			931.50
	932.03			931.37
24	932.00			931.25
.4	932.05	<u> </u>	VPI 244+10.00 Elev. 931.20 INO CURVE)	931.33
	932.23			931.56
	932.48			931.78
24	932.66			932.00
5	932.77		EX. G +0.89%	932.22
	932.93		RAD	932.45
	932.99		E	932.67
- 24	933.06			932.89
6	933.12		VPI 246+21.19 Elev. 933.08	933.03
	932.94		(NO CURVE)	932.72
	932.62		-1	932.41
247	931.78		25%	932.09
	931.03			931.78
	930.92	<u> </u>	VPI 247+50.00	931.47
	931.04		Elev. 931.47 (NO CURVE)	931.70

STA

249

250

EX. MANHOLE (DND)

- EX. 24" HDCP (DND)

EX. 24" HDCP (TBR)

249

EX. WATER (DND)

– INV.=928.50'

2

EX. SIGN TO BE REMOVED AND RE-ERECTED

P3

EX. 24" HDCP (DND)

D3

1

-1.

AGGREGATE

DP3

DESIGN AGENCY

MODEL: CLP_LANCER_SUP - Plan 5-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 10/10/2024 TIME: 2:58:03 PM USER: cdekle P:\6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001.

<u> </u>	932 .84	900	910	920	+2. 930	940	950	960	970	محە ص	33.36
50	022 08				55%					0	
										n c	
	933.31									ע	34.64
	934.33					VPI .	250+80.00 ev. 935.40			6	35.27
251	935.84					< +1	IO CURVE)			ס	35.73
	936.27					1.66%				σ	36.15
	936.59					AV	251+56.99			9	36.56
	936.08					-1.23	Elev. 936.68 NO CURVE)			θ	36.46
25.	936.22					NPI	252+00.00			9	36.15
2	936.67						ilev. 936.15 VO CURVE)			б	36.58
	937.05					+1.7				9	37.00
	937.51					0%				σ	37.43
2.	937.90						PI 253+00.00			D	37.85
53	938.85						Elev. 937.85 (NO CURVE)			6	38.81
	939.97					3.85%				б	39.78
	940.73					/0	VPI 253+79	9.00		Ø	40.74
25	940.94					0.18	Elev. 94(VPI 254+02	0.89 (NO 2.00	CURVE)	ס	40.93
54	22 UV0					% 	Elev. 94	0.94		0	11 11
						+0.7		{VE}		й (41.11
	940.93					74%				σ	41.29
	941.45						VPI 254+8	80.00		6	41.48
255	941.91						Elev. 34 (NO CU	LC.LF		б	41.90
5	942.38									6	42.39
	942.86					1.5	1 95%			6	42.88
	943.30									Q	43.37
25	943.57						VPI 256	5+00.00		Ø	43.85
6	943.82						Elev. (NO (943.85 CURVE)		б	43.99
	943.84									6	44.13
	943.66									Q	44.27
25	942.89					~				5	44.41
57	943.95					RADE				б	44.55
	944.38						+0.55			9	44.68
	944.75						5%			σ	44.82
2.	945.06									ש	44.96
58	(C	
	945.24									ע	45.10
	945.44									σ	45.24
	945.47									σ	45.38
259	945.19						Ele Contraction	v. 945.46		б	45.62
)	945.71						+1.60			σ	46.04
	946.42						5%			σ	46.45
	946.62					E		1259+66. 1ev. 946.7 11/01/01/01		6	46.66
260	946.46					EX. G	~	ןט נטאעי		θ	46.52
)	945.96					RAD	-0.			Q	46.37

LIC-CR327-0.00 MODEL: CLP_LANCER_SUP - Plan 6-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 10/7/2024 TIME: 11:00:03 AM USER: cdekle P:\6501_6999\6695230010_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_GP001.

<u>LEGEND</u>

PR VEGETATIVE FILTER STRIP EXISTING DENSE VEGETATION (DO NOT DISTURB) PLAN AND PROFILE STA. 262+50.00 TO STA. 264+53.94

 	0.83%	0.31%	5	 			 	
	PGL	934.02						
	STA. 20 XGL 9	0+11.15 34.00 0			2	25		
	BEGIN	PROJECT						

	EOZ Fill See	t Area (S Area (SF ed Width	F): 53 F): 0 F(FT):	3	Cut V Fill V Seed	/ol. (C ol. (C Area	Y): Y): (SY):	142 3 128	0.40		
			(10.1		940		
			alle per generation and an		297 93 ⁶ 4 4 4 4 4 4 7 7 7 7 7 4 7 4 7 4 7		n 590 - 190 kana mananana manana		935		
							energi uguna ama ama		930		
			BER Y YY Y HER KAN MANA MANA MANA						925		0
									920		+50.0(
t Fill	Area (SF):		14 F	Fill A	rea (C	Υ):		52			$\frac{1}{1}$
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			******						920		
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50	<u> </u>			9	202	202	204	7	204	PROJECT IE) /100
			55 Seed	ding	203 Cut	203 Fill	204 Fill	G	∠04 eogrid	SHEET	TOTAL
			34	13	177	4	124		372	22	56

LIC-CR327-0.00 MODEL: CLP_LANCER_SUP - 202+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/15/2024 TIME: 9:14:05 AM USER: cdekle

							-50.00
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			<i></i>	Seeu Areu		940	SECTIO TO ST
						935	CROSS 50.00
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707 50	ill Area (SF): Geogrid Widt	14 h (FT): 14	Fill A Geog	rea (CY): grid Width (52 (SY): 156	915 75	
	E03 Fil	ıt Area (SF) II Area (SF):	: 22 0	Cut Vol. (C Fill Vol. (C	CY): 138 Y): 1		
	Se	ed Width (i	FT): 8	Seed Area	(SY): 83	940	
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203	Cut Area (SF) Fill Area (SF) Seed Width): 54 : 0 (FT): 22	Cut Vol. (C Fill Vol. (C) Seed Area	Y): 179 Y): 0 (SY): 233	945	50.00
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203	Cut Area (SF) Fill Area (SF) Seed Width): 43 : 0 (FT): 13	Cut Vol. (C Fill Vol. (C) Seed Area	Y): 145 Y): 0 (SY): 194	945	
					940	
					935	
	L				930	DESIGN AGENCY
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LEGEND UNSTABLE SUBGRADE: ITEM 204 - EXCAVATION OF SUBGRADE ITEM 204 - GRANULAR MATERIAL, TYPE C ITEM 204 - GEOGRID

											00
	203	Cut Area (Fill Area (Seed Widt	(SF): SF): th (FT	39 0): 9	Cut Vo Fill Vo Seed A	ol. (C I. (C) Area	Y): 1 (): 0 (SY): .	63) 122		ONS	A. 207+50
								9	45 40	SS SECTI	00 TO ST
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								9	30		STA. 2
	+ Fill Area (S	5F):	14	Fill A	rea (CY	ſ):	5	9	25		
	Geogrid W 50	/idth (FT):	14	Geog	grid Wid	dth (.	SY): 1	<u>56 9</u> 75	20		
	203	Cut Area (Fill Area (Seed Widt	(SF): SF): th (FT	49 0): 20	Cut Vo Fill Vo Seed A	ol. (C l. (C) Area	Y): 1 (): 0 (SY):	.92) 161 9	45		
								9	40		
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FUC	Fill Area (S Geogrid W 50	SF): /idth (FT):	14 14	Fill A Geog	rea (CY grid Wie	′): dth (.	5 SY): 1	2 56 9 75	20	DESIGNER CI REVIE BLS 03 PROJECT ID	D EWER 8/16/24
			c	659 eeding	203 .	203	204	20	04 arid	117 Sheft	100

LEGEND UNSTABLE SUBGRADE: ITEM 204 - EXCAVATION OF SUBGRADE ITEM 204 - GRANULAR MATERIAL, TYPE C ITEM 204 - GEOGRID

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	X SH									203	Cut Area Fill Area Seed Wid	(SF): 32 (SF): 0 lth (FT): 12	Cut Vol. (C Fill Vol. (C Seed Area	TY): 129 Y): 0 (SY): 139	950	ONS A. 209+
		0% 1.00%			P	L									945	S SECTI 0 TO ST
				941.95											940	CROS 8+50.0
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	I ST	PGL 942.90 A. 209+50.00 XGL 943.13							204	Fill Area (S	SF):	14 Fill	Area (CY):	52	930	
		0				2	25		5	Geogria v O	viatn (FT):	14 Ge	ogria wiath (57): 156 7	925 '5	
	EX SH									203	Cut Area Fill Area Seed Wic	(SF): 38 (SF): 0 Ith (FT): 13	Cut Vol. (C Fill Vol. (C Seed Area	Y): 141 Y): 0 (SY): 139	950	
	 	0% 1.00% -	3.7	,	P	L									945	
					`````	·									935	
						<u> </u>									930	DESIGN AGENCY
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	/F EIITER STDID	A. 208+50.00 XGL 941.67 0					25		504	Fill Area (S Geogrid V O	SF): Vidth (FT):	14 Fill 14 Ge	Area (CY): ogrid Width (	52 SY): 156 7	920 5	CLD REVIEWER BLS 08/16/24 PROJECT ID
Ä. 208+40 LT												659 Seedin 278	203         203           g         Cut         Fill           270         0	204 Fill G 104	204 eogrid 312	11/100       SHEET     TOTAL       26     56

![](_page_26_Figure_0.jpeg)

			33	Cut Area	(SF):	24	Cut Vol. (	'CY):	90
			20	Fill Area (	SF):	17	Fill Vol. (	CY):	34
				Seed Wid	th (FT)	: 11	Seed Are	a (SY).	: 117
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	5	0							
				Cut Area	(SF):	12	Cut Vol 1	'CY):	82
			-S	Eill Aroa (		1	Eill Vol. (	CVI.	2
			203	Fill Area (	SF): th (FT	1	Fill Vol. (	CY):	2
			203	Fill Area ( Seed Wid	SF): th (FT)	1 : 13	Fill Vol. ( Seed Are	CY): a (SY).	2 : 133
			200	Fill Area ( Seed Wid	SF): th (FT)	1 : 13	Fill Vol. ( Seed Are	CY): a (SY).	2 : 133
			20	Fill Area ( Seed Wid	SF): th (FT)	1 : 13	Fill Vol. (	CY): a (SY).	2 : 133
			203	Fill Area ( Seed Wid	SF): th (FT)	1 : 13	Fill Vol. (	CY): a (SY).	2 : 133
			202	Fill Area ( Seed Wid	SF): th (FT)	1 : 13	Fill Vol. (	CY): a (SY).	2 : 133
			202	Fill Area ( Seed Wid	SF): th (FT)	1	Fill Vol. (	CY): a (SY).	2 : 133
			202	Fill Area ( Seed Wid	SF): th (FT)	1	Fill Vol. (	CY): a (SY).	2 : 133
			202	Fill Area ( Seed Wid	SF): th (FT)	1	Fill Vol. (	<u>CY):</u> a (SY).	2 : 133
			202	Fill Area ( Seed Wid	SF): th (FT)	1	Fill Vol. (	CY): a (SY).	2 : 133
			202	Fill Area ( Seed Wid	SF): th (FT)	1	Fill Vol. (	CY): a (SY).	2 : 133

14 Fill Area (CY):

659 203 203 204

SeedingCutFillFill2501723688

Geogrid Width (FT): 14 Geogrid Width (SY): 70 930

Fill Area (SF):

50

CROSS SECTIONS STA. 210+50.00 TO STA. 211+50.00

DESIGN AGENCY

940

935

75

204

Geogrid

70

23

Oł	
DESIGN	IER
	CLD
R	EVIEWER
BLS	08/16/24
PROJEC	TID

117100

27 56

TOTAL

SHEET

![](_page_27_Figure_0.jpeg)

		203	Cut Area Fill Area (	(SF): 'SF):	30 24	Fill Vol. (C	.Y): Y):	99 90	-
			Seed Wid	th (FT	): 12	Seed Area	ı (SY).	: 117	
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									9
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ſ	4	Fill Area (S	F):	30	Fill A	rea (CY):		98	
	20	Geogrid W	'idth (FT):	0	Geog	grid Width	(SY):	0	9
	5	0							75

			Cut Aroa /		. 22	Cut	Val II		00	1970		
		line line line line line line line line	Cul Area (	SF	. 25		VOI. (C	$\frac{1}{2}$	70			
			Fill Area (S		CT1 10	FIII	101. (C	$r_{j}$	19			
			Seea Wiat	:n (	FT): 10	Seed	a Area	(SY):	122	J		
										065		
										905		
 										960		
										955		
										950		
											DESIGN AG	ENCY
										945		
											<b>IOH</b>	M
												50 <b>-</b> 50
										940		
										5 10	DESIGNER	
											C	LD
	4	Fill Area (S	SF):	23	3 Fill	Area (	CY):		85		REVI	EWER
	20	Geogrid W	/idth (FT):	0	Ge	oarid V	Vidth I	(SY):	0	035	BLS 0	8/16/24
	5	0				- 9.14				75	PROJECT I	)
	J				650	203	202	201		204	117	'100
					Spadin		Fill	Eill		poarid	SHEET	ΤΟΤΑΙ
					220	<u>5</u> Cut 107	160	100		n	28	56
					239	101	103	1 202		U		

CROSS SECTIONS 212+50.00 TO STA. 213+50.00 STA.

![](_page_27_Picture_7.jpeg)

![](_page_28_Figure_0.jpeg)

		Cut Area		24	Cut Va		. 11		00.
	205	Fill Area Seed Wid	(SF): (SF): Ith (F	25 T): 15	Fill Vol	l. (CY): . (CY): 	97 97 5Y): 1	7 970 50	6+50
								965	ONS A. 215
								960	SECTI TO ST
								955	CROSS +50.00
								950	A. 214
								945	ST
POC	Fill Area (S Geogrid W 50	SF): /idth (FT):	24 0	Fill A Geog	rea (CY) grid Wid	): Ith (SY	11 (): 0	940 75	
	m	Cut Area	(SF):	49	Cut Vo	I. (CY)	: 14	16	
		Fill Area Seed Wid	(SF): Ith (F	27 T): 9	Fill Vol Seed A	. (CY): rea (S	95 SY): 1	970 33	
								965	
								960	
								955	DESIGN AGENCY
								950	
								945	DESIGNER
2	Fill Area (S	5F):	37	Fill A	rea (CY	):	12	24	CLD REVIEWER
10	Geogrid W	/Idth (FT):	0	Geog	grid Wid	ith (SY	7: 0	940	BLS 08/16/

![](_page_29_Figure_0.jpeg)

	203	Cut Area ( Fill Area (	'SF): SF):	22 36	Cut \ Fill V	/ol. (C ′ol. (C`	<u>(Y): 7</u> (Y): 1	6 97 34	70	
		Seed Widt	th (FT	): 12	Seed	Area	(SY):	117		
								96	55	
							-			
					-			96	50	
			-					95	55	
								95	50	
								94	45	
4	Fill Area (S	F):	22	Fill A	rea (C	:Y):	7	6		o l
20	Geogrid W	idth (FT):	0	Geog	grid W	'idth (	'SY): 0	94	40	0.0
50	J .							75		-50
		Cut Area		10	C	101 10	<u>vi.</u> 7	97	70	<del>*</del>
	203	Fill Area (	SF): SF):	36	Fill V	ol. (C	Y): 1	8 10	<u> </u>	21
		Seed Widt	th (FT	): 14	Seed	Area	(SY):	144		ΣΎΙ
							-	96	55 <b>F</b>	ST
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									þ	202
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4	Fill Area (S	F):	19	Fill A	rea (C	(Y):	7	8		
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50	)				-			75		
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	203	Cut Area ( Fill Area (	'SF): SF):	23 23	Cut \ Fill V	/ol. (C /ol. (C)	<u>(Y): 8</u> (Y): 8	27 97 28	70	
		Seed Widt	th (FT	): 12	Seed	Area	(SY):	0 144		
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04	Fill Area (S	F):	23	Fill A	rea (C	(Y):	8	7	R	EVIEWER
 5/	Geogrid W	uath (FT):	U	Geog	grid W	udth (	SY):  0	94 75	40 BLS PROJEC	U8/16/24
	-			659	203	203	204	20	)4 1	17100
			S	eeding	Cut	Fill	Fill	Geo	grid SHEET	TOTAL

![](_page_30_Figure_0.jpeg)

0	I	i	25	 5	0					75
XGL 95	52.18			20	Geogrid W	idth (FT):	14 G	eogrid Width (S	SY): 156	940
STA. 221	+50.00			4	Fill Area (S	F):	14 Fi	ll Area (CY):	52	1
PGL 95	2.86									
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 3.1										
1.00%	1.00% 3: ₁									
				 						955
EX EX										
ਤ ਤ			 DI			Seed Widt	h (FT): 1	2 Seed Area	(SY): 117	960
					20	Fill Area (S	F): 4	Fill Vol. (CY	'): 9	
					θ	Cut Area (	SE) · 14	Cut Vol. (C	Y)· 58	

								965
	33	Cut Area (	'SF): 1	17	Cut Vol. (C	:Y):	31	1
	20	Fill Area (S	SF): 1	1	Fill Vol. (C	Y):	38	
		Seed Widt	:h (FT)	: 6	Seed Area	(SY):	: 100	
								960
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04	Fill Area (S	F):	14	Fill A	rea (CY):		52	
2	Geogrid W	'idth (FT):	14	Geog	grid Width (	'SY):	156	940
5	50						7	75

		33	Cut Area (	'SF)	: 31	Ci	ut V	/ol. (C	Y):	98			
		5	Fill Area (	SF):	: 20	Fi	ll V	ol. (C	Y):	103	3 965		
 			Seed Widt	th (	FT): 9	) Se	ed	Area	(SY):	83	3		
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	4	Fill Area (S	SF):	31	. Fi	II Arec	a (C	(Y):		98		REV	
	20	Geogrid W	, /idth (FT)∙	0	G	eoario	· ·	, /idth (	SY).	39	010	BLS	08/16/24
	<u>_</u>	0009/10/11		0		cogna		iacii (	517.	55	75	PROJECT	ID
	)				6.54	) 20	)3	203	204	1	204	11	7100
					Seed	ing Cu	ut	Fill	 Fill		Geoarid	SHEET	TOTAL
					30	18	37	150	202	2	351	31	56
						}	-						-

SECTIONS TO STA. 221+50.00 CROSS )+50.00 219 STA.

![](_page_31_Figure_0.jpeg)

	U	<b>6</b>			2	5		
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	<b>– –</b> EX SH					F	Ĺ	
 3:1	1.00%	1.00%	3:1	 				
	PGL 95 STA. 222 XGL 95	5 <b>1.53</b> 2 <b>+50.00</b> 51.12						
	C	)		 	2	5		

	<b>–</b> EX SH						
	1 1 100%	1.00%	 				
PR. 12" D EX. 12	2" CPP (TBR)						
	<i>PGL 9.</i> <i>STA. 223</i> XGL 9!	<b>50.60</b> 3 <b>+50.00</b> 50.58					
	0	)		2	5		

	Cut Area Fill Area ( Seed Wid	(SF): 29 (SF): 0 th (FT): 0	Cut Fill V Seed	Vol. (C /ol. (C) I Area	Y): 14 Y): 0 (SY): 5 52	4 960 56 955 950 945	SNC	A. 223+50.00
	Cut Area Cut Area Fill Area ( Seed Wid	(SF): 31 (SF): 0 (SF): 0 (th (FT): 0	Cut Fill V Seed	Vol. (C Vol. (C) Area	Y): 80 Y): 80 Y): 2 (SY): 0	940 75 960 955 955	CROSS SECTION	STA. 222+50.00 TO ST/
107 Fill A Geo	Area (SF): ogrid Width (FT):	14 Fi 14 Ge	ll Area (C eogrid W	CY): /idth (.	6 SY): 19	945 9940 75		
	Cut Area Fill Area ( Seed Wid	(SF): 19 (SF): 1 (th (FT): 9	Cut Fill V Seed	Vol. (C ⁄ol. (C\ I Area	Y): 6. Y): 10 (SY): 4	1 0 14 960		
						955	DESIGN AGE	ENCY
						945	OHI DESIGNER CL	D
707 Fill A Geo 50	Area (SF): ogrid Width (FT):	14 Fil 14 Ge 659 Seedi 100	ll Area (( eogrid W 203 ng Cut 155	CY): /idth (. 203 Fill 12	40 SY): 13 204 Fill 104	5 37 935 75 204 Geogrid 312	REVIE BLS 08 PROJECT ID 117 SHEET 32	WER 8/16/24 100 TOTAL 56

![](_page_32_Figure_0.jpeg)

	€0 Cut Area Fill Area Seed Wi	a (SF): 18 (SF): 2 dth (FT): 9	Cut Vol. (0 Fill Vol. (0 Seed Ared	CY): 6: CY): 7 a (SY): 8	5 955 33	
					950	
					945	00.0
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707 Fill A	rea (SF): arid Width (FT):	14 Fill .	Area (CY): arid Width	52 (SY): 1	2	TA. 2
50	gna wiath (i i).		gna waan	(37). 1	75	SECT TO S
	Cut Area 7 Fill Area Seed Wi	n (SF): 17 (SF): 2 dth (FT): 9	Cut Vol. (0 Fill Vol. (0 Seed Ared	CY): 6. CY): 7 a (SY): 2	2 100 955	CROSS 24+50.00
					950	STA. 2
					945	
					940	
Fill A     707     Geod	rea (SF): grid Width (FT):	14 Fill /	Area (CY): arid Width	52 (SY): 1	2	
50	<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>		75	
	Cut Area	n (SF): 16 (SF): 2	Cut Vol. (C Fill Vol. (C	CY): 84 CY): 4	960 4	
	Seed Wi	utin (F1). 10	Seed Arec		955	
					950	DESIGN AGENCY
					945	
					940	ОНМ
to Fill A	rea (SF):	14 Fill /	Area (CY):	52	2	DESIGNER CLD REVIEWER BLS 08/16/24
50	yriu vviath (FT):	659	203 203	204	935 75 204	PROJECT ID 117100
		Seeding 289	Cut Fill 211 18	Fill 156	Geogrid 468	33 56

![](_page_33_Figure_0.jpeg)

	203	Cut Area ( Fill Area (	′SF) SF).	: 23 : 8	Cut V Fill V	Vol. (C Vol. (C	CY): Y):	31 4	960		
		Seed Widt	th (	FT): 17	Seea	l Area	(SY):	156	955		
									555		
 									950		
									945		
											~
									940		0.00
									935		28+5
75	Fill Area (S	F):	14	1 Fill A	rea (C	CY):		52			A. 2
 5	Geogrid W 0	'idth (FT):	14	l Geog	grid W	/idth (	′SY):	156 ;	] <i>930</i> 75	ECTI	O ST
	m	Cut Area (	SE	: 38	Cut	Vol. (C	<u>(</u> ):	81	1	SSS S	T 00
	20	Fill Area (S Seed Widt	SF). th (	: 0 FT): 0	Fill V Seea	′ol. (C I Area	Y): (SY):	1 26	955	CRO	7+50
									950		. 227
											STA
									945		
 									940		
04	Fill Area (S	F):	14	Fill A	rea (C	CY):		14	]		
 <u>~</u> 5	Geogrid W 0	/idth (FT):	14	l Geog	grid W	/idth (	'SY):	42	935		
									•		
	203	Cut Area ( Fill Area (	SF) SF).	): 22 : 1	Cut Fill V	/ol. (C /ol. (C	:Y): Y):	74	955		
		Seed widt		F1): 0	Seed	Areu	(51).	24	950		
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204	Fill Area (S	F):	14	Fill A	rea (C	CY): /idth/	(0)	38 112		REV	TEWER
 5	0 0	мат (F1):	114			202		<u>, 1</u>	1930 75	PROJECT	ID 7100
				Seeding	203 Cut	Fill	Fill	G	204 Seogrid	SHEET 21	TOTAL
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![](_page_34_Figure_0.jpeg)

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8	Fill Area (S	F):	14	Fill A	Area (C	Y):	5	52		
	)	Cut Area	(SE)·	20	gria vvi		<u>v), s</u>	.56 7. 21	930 5 965	
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![](_page_35_Figure_0.jpeg)

LIC-CR327-0.00 MODEL: CLP_LANCER_SUP - 231+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/15/2024 TIME: 9:18:08 A

m C	ut Area (SF): 29	Cut Vol. (CY):	103
$\sim$ Fi	ill Area (SF): 0	Fill Vol. (CY):	17
Se	eed Width (FT): 7	Seed Area (SY).	: 111 915
			940
			0.05
			935
			930
			925
➡ Fill Area (SF):	14 Fill	Area (CY):	52
R Geogrid Widt	th (FT): 14 Geo	parid Width (SY)	156 920
50		<u>g</u>	75

									- 050
 	-	03	Cut Area (	'SF): 2	26	Cut Vol. (C	:(Y):	93	950
		2	Fill Area (S	SF): 9	9	Fill Vol. (C	Y):	24	
			Seed Widt	h (FT)	: 4	Seed Area	(SY):	61	]
									945
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	t	Fill Area (S	F):	14	Fill A	rea (CY):		52	
	2 V	Geogrid W	idth (FT):	14	Geog	grid Width (	'SY):	156	925
	5	0					50		75

 						1 22 7 7			121123	1055		
		03	Cut Area (	SF)	: 24	Cut	Vol. (0	CY):	90			
		2	Fill Area (S	SF).	: 4	Fill V	/ol. (C	Y):	8	4		
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	74	Fill Area (S	F):	14	‡   Fill J	Area (C	CY):		52		REV	IEWER
	2(	Geogrid W	'idth (FT):	14	4 Geo	grid N	/idth	(SY):	156	925	BLS C	08/16/24
	5	0		I		270			 	75	PROJECT I	D
					659	203	203	204	¢	204	11	7100
					Seeding	g Cut	Fill	Fill	G	ieogrid	SHEET	TOTAL
					272	286	49	156	5	468	36	56

CROSS SECTIONS STA. 231+50.00 TO STA. 233+50.00

![](_page_36_Figure_0.jpeg)

									-
		6	Cut Area	(SF):	37	Cut Vol. (C	CY):	142	945
		<u>^</u>	Fill Area	′SF):	0	Fill Vol. (C	Υ):	0	
			Seed Wid	th (FT	): 6	Seed Area	1 (SY).	89	J
									940
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	 			+					930
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			_						
	4	Fill Area (	SF):	14	Fill A	Area (CY):		52	
	2(	Geogrid V	Vidth (FT):	14	Geog	grid Width	(SY):	156	915
	5	0		10					75

										-7
			33	Cut Area	(SF): 3	39	Cut Vol. (C	CY):	147	
			2(	Fill Area (	SF): (	)	Fill Vol. (C	Y):	0	945
				Seed Wid	th (FT)	: 8	Seed Area	(SY):	78	]
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		04	Fill Area (S	5F):	14	Fill A	Area (CY):		52	-
		2	Geogrid W	/idth (FT):	14	Geog	grid Width	(SY):	156	920
		5	0						7	<i>'</i> 5

		<u> </u>	Cut Area (	'SF)	: 40	Cut	Vol. (C	CY):	128			
		2(	Fill Area (S	SF).	: 0	Fill V	/ol. (C	Y):	0	0.45		
 			Seed Widt	:h (	FT): 13	Seed	l Area	(SY):	117	945		
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 		· — — — — ·			·					1		
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	04	Fill Area (S	F):	14	Fill A	Area (O	CY):		52		REVI	EWER
	2(	Geogrid W	'idth (FT):	14	l Geo	grid N	/idth (	'SY):	156	920	BLS 0	8/16/24
	5	0								75	PROJECT IE	)
					659	203	203	204	!	204	117	100
					Seeding	Cut	Fill	Fill	0	Geogrid	SHEET	TOTAL
					284	417	0	156	5	468	37	56

SECTIONS TO STA. 236+50.00 CROSS +50.00 34 2

STA

![](_page_37_Figure_0.jpeg)

Seed Width (FT):       14       Fill Area (SF):       7       935         935       936       935       935         930       935       935         931       935       935         932       935       935         935       936       935         930       935       935         931       935       935         932       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935       935         930       935 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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Seed Width (FT): 25         Seed Area (SY): 205         940           930         930         930           921         920         920           922         920         920           920         920         920           920         920         920           920         920         920           921         920         920           922         920         920           920         920         920           920         920         920           920         920         920           920         920         920           920         920         920           920         920         920           920         925         920           920         925         920           920         920         920           920         920         920           920         920         920           920         920         920           920         920         920           920         920         920           920         920         920           920         92	20	Fill Area (S	SF): 7	Fill Vol. (C	Y): 15	1	
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Image: Second Width (FT):         14         Fill Area (SF):         52         920           Image: Second Width (FT):         14         Fill Area (SF):         52         915         915           So         75         75         75         75         940         930         930           Image: Second Width (FT):         10         Second Area (SF):         75         940         930         930           Image: Second Width (FT):         14         Fill Area (SF):         14         Fill Area (SF):         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         916         916         916         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920         920<							
Image: Second Width (FT):         14         Fill Area (SF):         50         75           So         75         75         915         75           So         75         75         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         915         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916         916						925	
Image: Second Width (FT):       14       Fill Area (SF):       52       920         Image: Second Width (FT):       14       Geogrid Width (SY):       155       915       925         Image: Second Width (FT):       14       Geogrid Width (SY):       155       920       940         Image: Second Width (FT):       10       Second Area (SY):       199       940       935         Image: Second Width (FT):       14       Fill Area (SY):       52       915       920         Image: Second Width (FT):       14       Fill Area (CY):       52       920       925         Image: Second Width (FT):       14       Geogrid Width (SY):       155       915       920         Image: Second Width (FT):       14       Geogrid Width (SY):       155       915       920         Image: Second Width (FT):       14       Geogrid Width (SY):       155       915       920         Image: Second Width (FT):       14       Geogrid Width (SY):       155       920       920         Image: Second Width (FT):       14       Geogrid Width (SY):       155       920       920       920         Image: Second Width (FT):       14       Geogrid Width (SY):       155       920       920       920							
Image: Second Width (FT):         14         Fill Area (SF):         52         915         915           50         75         75         75         75         940         935         930           Image: Second Width (FT):         14         Fill Area (SF):         27         Fill Area (SF):         27         940           Image: Second Width (FT):         10         Second Area (SF):         1940         935         930           Image: Second Width (FT):         14         Fill Area (CY):         52         915         915           Image: Solution Area (SF):         14         Fill Area (CY):         52         915         920           Image: Solution Area (SF):         14         Fill Area (CY):         52         915         920           Image: Solution Area (SF):         14         Fill Area (CY):         52         915         75           Image: Solution Area (SF):         14         Fill Area (CY):         14         940         935           Image: Solution Area (SF):         14         Fill Area (SF):         940         940         930           Image: Solution Area (SF):         14         Fill Area (CY):         11         940         940         940         930         930 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Image: Stripping of the second width (FT):       14       Fill Area (CY):       52       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       51       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       52       53       53       53						920	
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Image: Solution of the solution	5 Fill Area (S	SF):	14 Fill A	rea (CY):	52		
50       75         Image: Solution of the second secon	[™] Geogrid W	/idth (FT):	14 Geog	grid Width (	'SY): 156	915	8
Image: Second width (FT): 10       Second Area (SF): 27       Cut Vol. (CY): 120       940         Image: Second width (FT): 10       Second Area (SY): 194       940       935         Image: Second width (FT): 10       Second Area (SY): 194       940         Image: Second width (FT): 14       Fill Area (CY): 52       915         Image: Second width (FT): 14       Fill Area (CY): 52       915         Image: Second width (FT): 14       Fill Area (SF): 38       Cut Vol. (CY): 140         Image: Second width (FT): 14       Fill Area (SF): 144       Fill Area (SY): 111         Image: Second width (FT): 10       Second Area (SY): 111       940         Image: Second width (FT): 10       Second Area (SY): 111       940         Image: Second width (FT): 10       Second Area (SY): 111       940         Image: Second width (FT): 10       Second Area (SY): 111       940         Image: Second width (FT): 10       Second Area (SY): 111       940         Image: Second width (FT): 10       Second Area (SY): 111       940         Image: Second width (FT): 11       Image: Second Area (SY): 111       940         Image: Second width (FT): 11       Image: Second Area (SY): 111       940         Image: Second Width (FT): 11       Image: Second Area (SY): 115       915         Image: Second Widt	50				7	'5	0.0
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Image: Seeding       CLD         Image: Seeding       CLD         Image: Seeding       CLD         Image: Seeding       CLD         Image: Seeding       Cut							
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Fill Area (SF):       14       Fill Area (CY):       52         Geogrid Width (FT):       14       Geogrid Width (SY):       156       915       REVIEWER         50       75       PROJECT ID         659       203       203       204       204       117100         Seeding       Cut       Fill       Fill       Geogrid       SHEET       TOTAL         50       511       262       17       156       915       SHEET       TOTAL						920 D	ESIGNER
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Seeding       Cut       Fill       Fill       Geogrid       Seeding       Seeding       Cut       Fill       Geogrid       Seeding       Seeding<	Fill Area (S	)tj: /idth /rt)	14 Fill A	rea (CY):	52 (SVI) 150		REVIEWER
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Model       Fill Area (SF):       14       Fill Area (CY):       52       915       REVIEWER         Geogrid Width (FT):       14       Geogrid Width (SY):       156       915       915       915         50       50       50       50       50       50       75       915       915         659       203       203       204       204       117       117       1100         Seeding       Cut       Fill       Fill       Fill       Geogrid       SHEET       TOTAL         355       306       13       104       312       39       56									9	20 OHM	
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	5	U		Se	659 eding 355	203 Cut 306	203 Fill 13	204 Fill 104	75 20 Geo 31	04         117100           ogrid         SHEET         TOTAL           12         39         56	

![](_page_39_Figure_0.jpeg)

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			03	Cut Area	(SF):	39	Cut Vol. (C	CY):	132	
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				Seed Wid	th (FT,	): 23	Seed Area	(SY):	250	
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	04	Fill Area	a (S	F):	14	Fill A	rea (CY):		52	
	2(	Geogric	1 W	'idth (FT):	14	Geog	grid Width (	'SY):	156	915
	5	0							7	75

	202	Cut Area	(SF):	32	Cut Vol. (C	:Y):	147	040
		Seed Widi	SF): ( th (FT)	) : 19	Seed Area	Y): (SY):	233	940
								935
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4	Fill Area	(SF):	14	Fill A	rea (CY):		52	
20	Geogrid	Width (FT):	14	Geog	grid Width (	'SY):	156	915
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		33	Cut Area (	′SF)	: 48		Cut \	Vol. (C	:Y):	191			
		2(	Fill Area (	SF).	: 0		Fill V	′ol. (C	Y):	0			
			Seed Widt	th (	'FT): 1	14	Seed	l Area	(SY):	183	940		
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	204	FIII AIEU (S	r).	14					(0)()	52	party interaction	REVI	IEWER
	~ ~	Geogrid W	idth (FT):	14	1   G	eog	grid W	/idth (	SY):	156	910	BLS U	08/16/24
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					65	9	203	203	204		204		100
					Seed	ing	Cut	Fill	Fill	G	eogrid	SHEET	TOTAL
					66	6	470	4	156		468	40	56

5 SECTIONS 0 TO STA. 244+50.00 CROSS +50.00 42 2 STA

![](_page_40_Figure_0.jpeg)

203	Cut Area ( Fill Area (.	(SF): 17 SF): 1	Cut Vol. (C Fill Vol. (C	CY): 78 (Y): 4	940	
	Seed Widt	tn (F1): 8	Seed Ared	(SY): 44	935	
					930	
					925	
					920	0
Fill Area (S Geogrid W 50	F): 'idth (FT):	14 Fill A 14 Geog	Area (CY): grid Width	23 (SY): 70	915 75	\$ 47+50.0
203	Cut Area ( Fill Area ( Seed Widi	(SF): 25 SF): 1 th (FT): 15	Cut Vol. (C Fill Vol. (C Seed Area	CY): 105 Y): 9 1 (SY): 128	940	SECTIONS TO STA. 2
					935	ROSS 50.00
					930	. 245+
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					920	
Fill Area (S Geogrid W 50	F): 'idth (FT):	14 Fill A 14 Geog	Area (CY): grid Width	52 (SY): 156	915 75	
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14 Fill Area (CY):

Fill Area (SF):

50

925 OHM ` 920 DESIGNER CLD 52 REVIEWER Geogrid Width (FT): 14 Geogrid Width (SY): 156 915 BLS 08/16/24 PROJECT ID 75 117100 659 203 203 204 204 
 Seeding
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 Fill
 Fill

 378
 314
 24
 127

 SHEET
 TOTAL

 41
 56
 Geogrid

382

![](_page_41_Figure_0.jpeg)

IP - 248+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/15/2024 TIME: 9:20:10 AM USER: cdekle 10_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_XS001.dg LIC-CR327-0.00 : CLP_LANCER_ 6999\669523

MODEL

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CROSS SECTIONS 248+50.00 TO STA. 249+50.00 STA.

![](_page_42_Figure_0.jpeg)

JP - 250+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/15/2024 TIME: 9:20:32 AM USER: cdekle 10_Lancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Roadway\Sheets\117100_XS001.dg : CLP_LANCER_: MO

![](_page_42_Figure_2.jpeg)

LEGEND UNSTABLE SUBGRADE: ITEM 204 - EXCAVATION OF SUBGRADE ITEM 204 - GRANULAR MATERIAL, TYPE C ITEM 204 - GEOGRID

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![](_page_43_Figure_0.jpeg)

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				┝	659 Seeding	203 Cut	203 Fill	204 Fill	204 Geor	4 grid	SHEET	TOTAL
					125	209	4	68	200	6	44	56

![](_page_44_Figure_0.jpeg)

	202	Cut Area Fill Area ( Seed Wid	(SF): SF): th (F	20 0 T): 5	Cut V Fill V Seea	/ol. (C ⁄ol. (C I Area	:Y): Y): (SY):	76 1 50	955		
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![](_page_45_Figure_0.jpeg)

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50 75 PROJECT ID 659 203 203 204 204 117100	204	Fill Area (S Geogrid W	SF): /idth (FT):	14 14	Fill A Geo 659	Area (C grid W 203	203	['] SY): 20	22 66	935 930 75 204	DESIGNER C REVI BLS 0 PROJECT II 117	LD EWER 8/16 2/100

![](_page_46_Figure_0.jpeg)

END PF	ROJECT								
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					🏹 Fill Area	a (SF): 0	Fill Vol. (C	Y): 1	
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									945
PGL 9	48.35								
STA. 263	3+50.00			4	Fill Area (SF):	14	Fill Area (CY):	52	
XGL 9	947.82			20	Geogrid Width (FT)	: 14	Geogrid Width (	(SY): 156	940
C	0		25	5	0				

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![](_page_47_Figure_0.jpeg)

TIME: 9:28:53 AM USER: cdekle Rnadwav\Sheets\117100 GD001 et] PAPERSIZE: 34x22 (in.) DATE: 8/15/2024 __CR327_SUP\ODOT\117100\400-Engineering\ , 6 [Sh СГР

![](_page_47_Figure_2.jpeg)

SHARED-USE PATH TERMINUS CONNECTION @ CRISTLAND HILL ROAD

![](_page_47_Figure_4.jpeg)

SHARED-USE PATH TERMINUS CONNECTION @ US40

**PAVEMENT CONNECTION NOTES** 1.) PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES TO THE FULL DEPTH OF PAVEMENT, OR AS REQUIRED BY THE ENGINEER.

2.) BUTT JOINTS BETWEEN EXISTING AND NEW PAVEMENTS SHALL BE MADE IN ACCORDANCE WITH ODOT STD. CONSTRUCTION DWG BP-3.1.

3.) THE CONTRACTOR SHALL NOT USE ANY RECLAIMED MATERIALS IN ITEM 304 - AGGREGATE BASE

![](_page_47_Figure_10.jpeg)

![](_page_48_Figure_0.jpeg)

![](_page_48_Figure_1.jpeg)

![](_page_48_Figure_2.jpeg)

USER: cdekle AM : 9:28:55 . 100-Fnain 8/15/2024 TIME: : 34x22 (in.) DATE: 3 פר Rd - רצאסד גווויא

STA 223+70.24 OFF 20.29' LT EX ELEV 950.37' 

STA 223+66.53 OFF 5.00' LT ELEV 950.47'

![](_page_48_Figure_9.jpeg)

![](_page_48_Picture_10.jpeg)

![](_page_49_Figure_0.jpeg)

![](_page_50_Figure_0.jpeg)

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

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

## **GENERAL REQUIREMENTS -**

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

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

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

## **FUNCTIONAL REQUIREMENTS -**

EACH RRFB SHALL UTILIZE SOLAR POWER

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

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

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

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

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

## **MATERIALS** -

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

- **1. RRFB INDICATIONS** 
  - A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
  - B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
  - C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
  - D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.

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

- **RRFB INDICATIONS.**
- OPERATION.
- NIGHT.

## 2. SIGNS

- SIGN TO FIXTURE.
  - PUSHBUTTON.
- **3. CONTROL CIRCUIT**
- COMPONENTS. 4. BATTERY AND SOLAR PANELS
  - WARRANTY.

  - WATTS PEAK TOTAL OUTPUT.
- 5. WIRELESS RADIO

  - PUSHBUTTON INPUT.

  - FLASHING CYCLE.

E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005. F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE

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

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

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

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

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

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

A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE. B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS. C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL

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

B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40

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

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

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

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

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

## 6. PUSHBUTTON

- A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS **OPERATION OVER A TEMPERATURE RANGE OF -30** DEGREES F TO +165 DEGREES F.
- B. PUSHBUTTON SHALL BE ADA COMPLIANT.
- 7. PEDESTAL SHAFT AND BASE MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHT, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

## **CONSTRUCTION** ·

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

#### WARRANTY -

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

## **MEASUREMENT -**

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

#### **PAYMENT -**

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

![](_page_52_Figure_75.jpeg)

SPECIAL; No border, Pink on Green; "Cristland" White, B 2K; "Hill" White, B 2K; "Rd" White. B 2K: Table of widths and spaces

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![](_page_52_Figure_78.jpeg)

SPECIAL: No border, White on Green; "US", B 2K; "40", B 2K;

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![](_page_54_Figure_2.jpeg)

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![](_page_54_Picture_3.jpeg)

![](_page_54_Figure_4.jpeg)

![](_page_54_Figure_6.jpeg)

![](_page_55_Figure_0.jpeg)

RSIZE: 34x22 (in.) DATE: 8/15/2024 TIME: 9:30:09 AM USER: cdekle ancer_Rd_-_CR327_SUP\ODOT\117100\400-Engineering\Traffic\Sheet Detail 5 [Sh 409\6695

![](_page_55_Figure_2.jpeg)

![](_page_55_Figure_3.jpeg)