

FRISCO MEDIAN IMPROVEMENTS

TOWN OF FRISCO, SUMMIT COUNTY, COLORADO

CONSTRUCTION BID SET

OWNER

TOWN OF FRISCO
PO BOX 4100
1 EAST MAIN STREET
FRISCO, CO 80443
970-668-5276

LANDSCAPE ARCHITECT

NORRIS DESIGN
409 MAIN STREET, SUITE 207
FRISCO, CO 80443
PO BOX 2320
970.368.7068

STRUCTURAL ENGINEER

JVA, INCORPORATED
47 COOPER CREEK WAY #328
WINTER PARK, CO 80482
970.722.7677

HIGHWAY ENGINEER

TURNKEY CONSULTING LLC
PO BOX 629
MESA CO 81643
970-314-4888

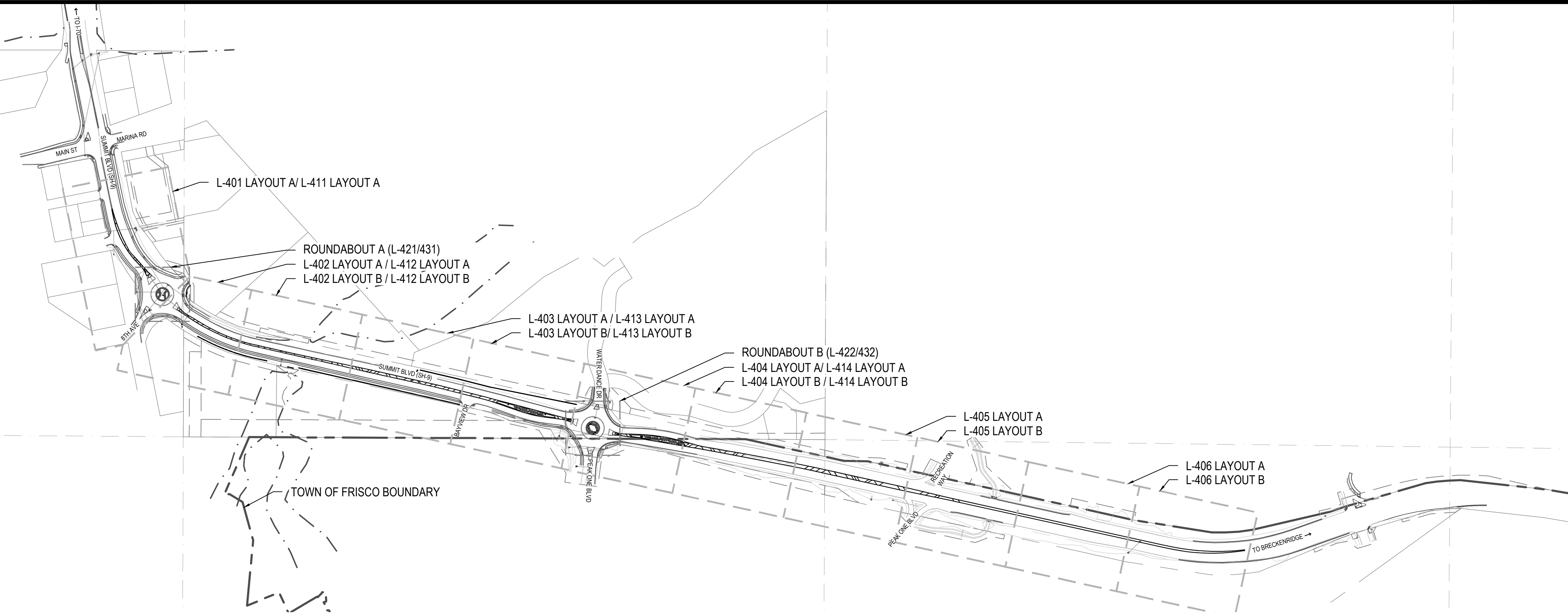
SURVEYOR

RANGE WEST, INC.
101 W MAIN ST, SUITE 200
FRISCO, CO 80443
PO BOX 589 (SILVERTHORNE, CO)
PHONE: 970.468.6281
FAX: 970.668.3765

ISSUE DATES

07/14/2022 CONSTRUCTION BID SET
02/29/2023 CDOT PERMIT SET
03/08/2023 ISSUE FOR CONSTRUCTION

VICINITY MAP



SCALE: 1" = 300'

SHEET INDEX

SHEET SET	NUMBER	DATE		
COVER SHEET	G-01	03.08.2023	ROUNDABOUT LAYOUT PLANS	L-421
CDOT STANDARDS SET		03.08.2023	ROUNDABOUT LAYOUT PLANS	L-422
STANDARDS PLANS LIST			ROUNDABOUT LANDSCAPE PLANS	L-431
ROADWAY LIGHTING	S-613-1		ROUNDABOUT LANDSCAPE PLANS	L-432
BREAKAWAY SIGN SUPPORT	S-614-5		LANDSCAPE DETAILS	L-501
DETAILS FOR CLASS III SIGNS			LANDSCAPE DETAILS	L-502
CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS	S-614-6		LANDSCAPE DETAILS	L-503
LANDSCAPE ARCHITECTURE SET		03.08.2023	LANDSCAPE DETAILS	L-504
LANDSCAPE NOTES	L-001		LANDSCAPE DETAILS	L-505
LANDSCAPE SCHEDULES	L-002		LANDSCAPE DETAILS	L-506
OVERALL PLAN	L-101		SECTIONS A-B	L-601
CONSTRUCTION PHASING	L-102		SECTIONS C-E	L-602
ILLUSTRATIVES	L-103			
MEDIAN LAYOUT PLAN	L-401			
MEDIAN LAYOUT PLAN	L-402			
MEDIAN LAYOUT PLAN	L-403			
MEDIAN LAYOUT PLAN	L-404			
MEDIAN LAYOUT PLAN	L-405			
MEDIAN LAYOUT PLAN	L-406			
MEDIAN LANDSCAPE PLAN	L-411			
MEDIAN LANDSCAPE PLAN	L-412			
MEDIAN LANDSCAPE PLAN	L-413			
MEDIAN LANDSCAPE PLAN	L-414			

PROJECT DESCRIPTION

U.S. HIGHWAY 9 RIGHT OF WAY "THE GAP" PROJECT BETWEEN FRISCO, COLORADO AND BRECKENRIDGE, COLORADO

FRISCO MEDIANS AND ROUNDABOUTS

PROJECT NUMBER: 0350-01-2009
FRISCO, COLORADO
CONSTRUCTION BID SET

OWNER:

TOWN OF FRISCO
1 EAST MAIN STREET
FRISCO, CO 80443
970.668.5276

NOT FOR
CONSTRUCTION

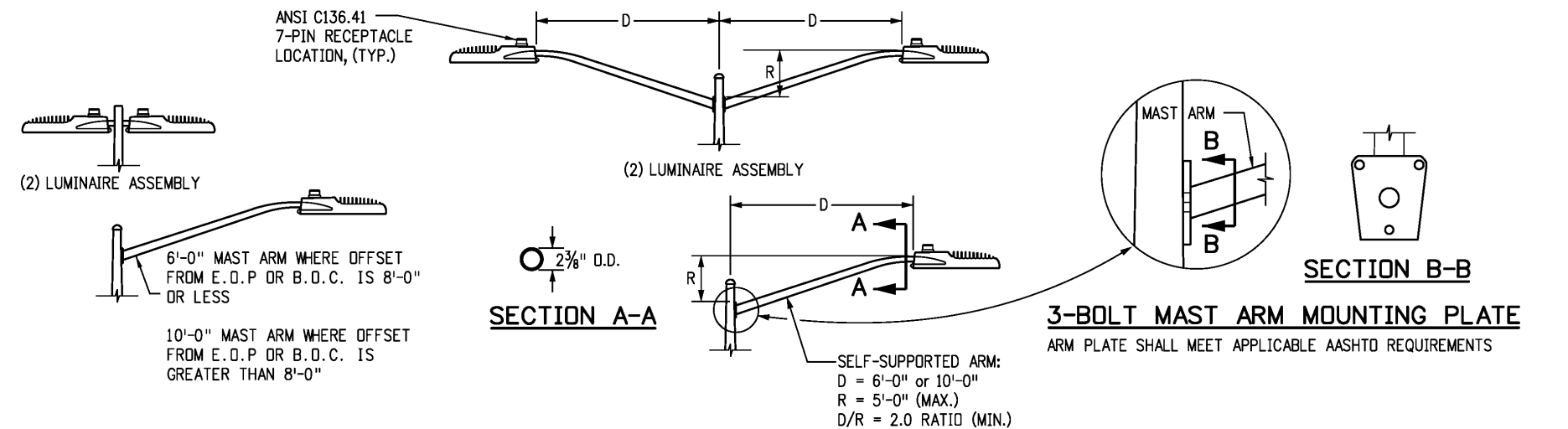
DATE:

02/24/23: CDOT PRMT
03/08/23: BID SET

SHEET TITLE:

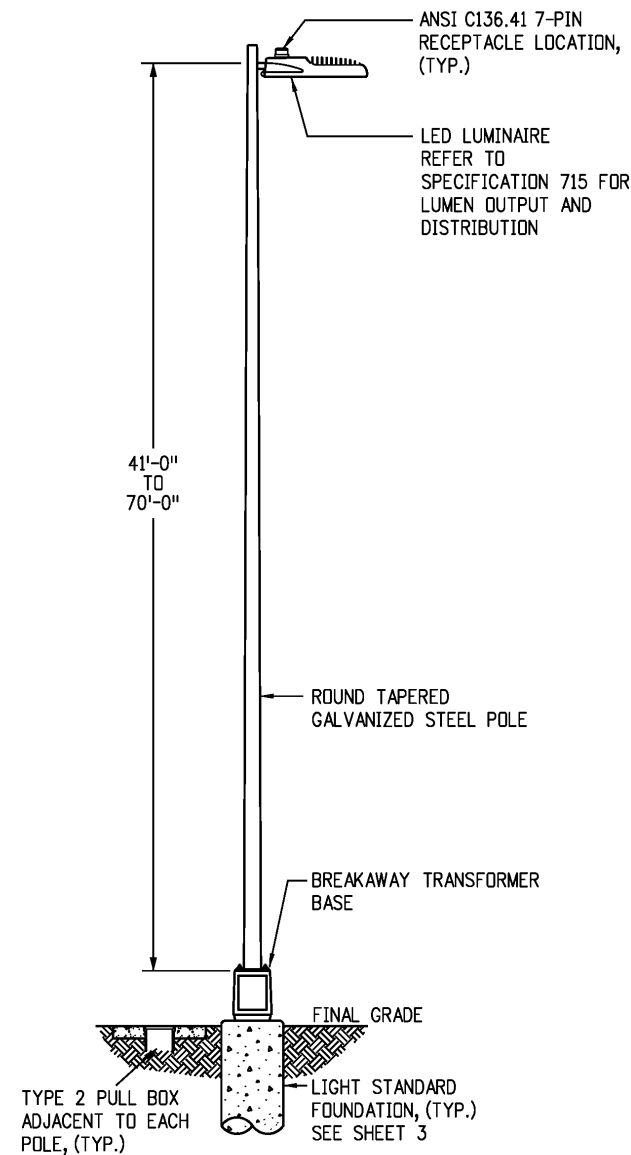
COVER
SHEET

G-01

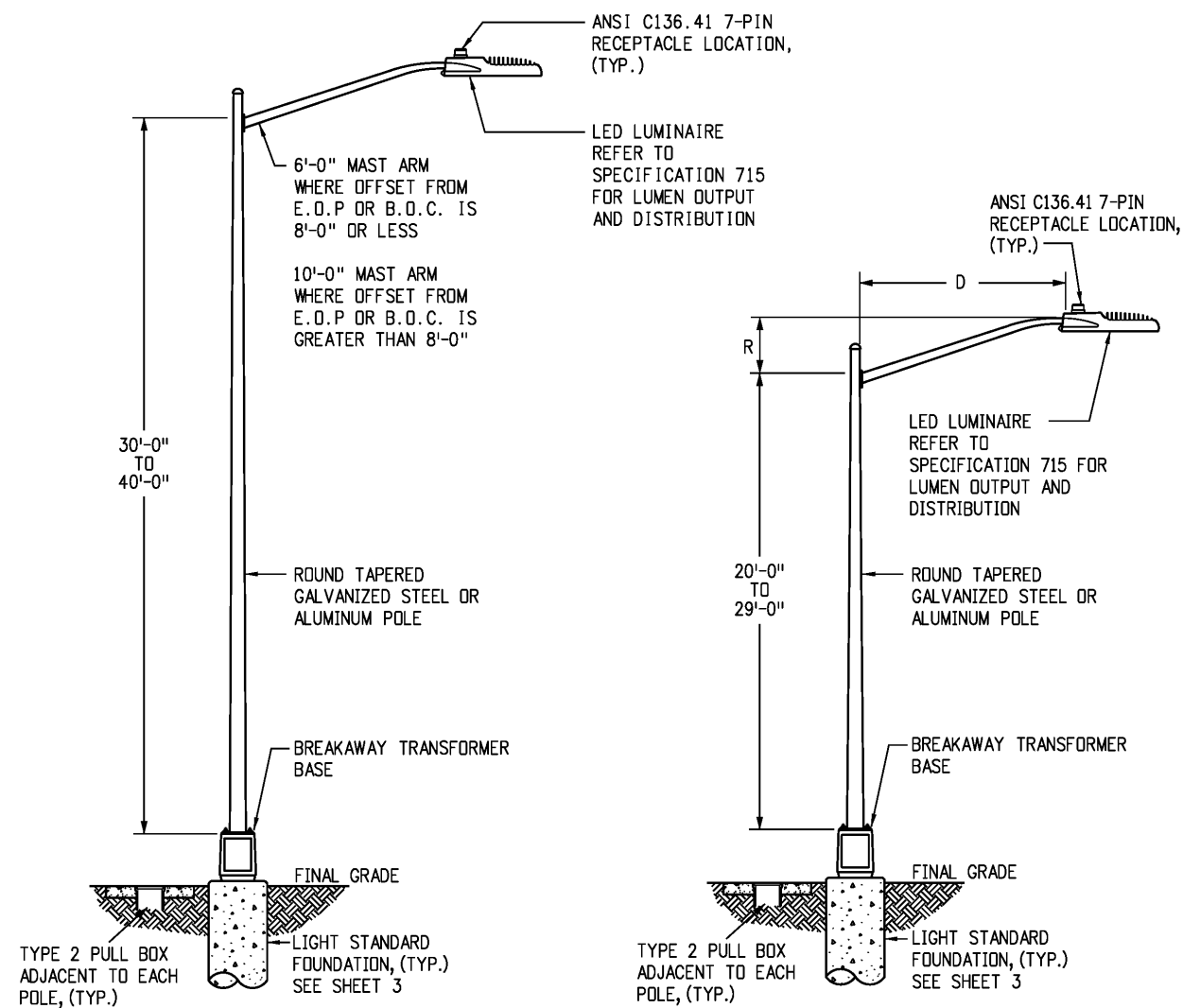


LUMINAIRE AND LIGHT STANDARD NOTES:

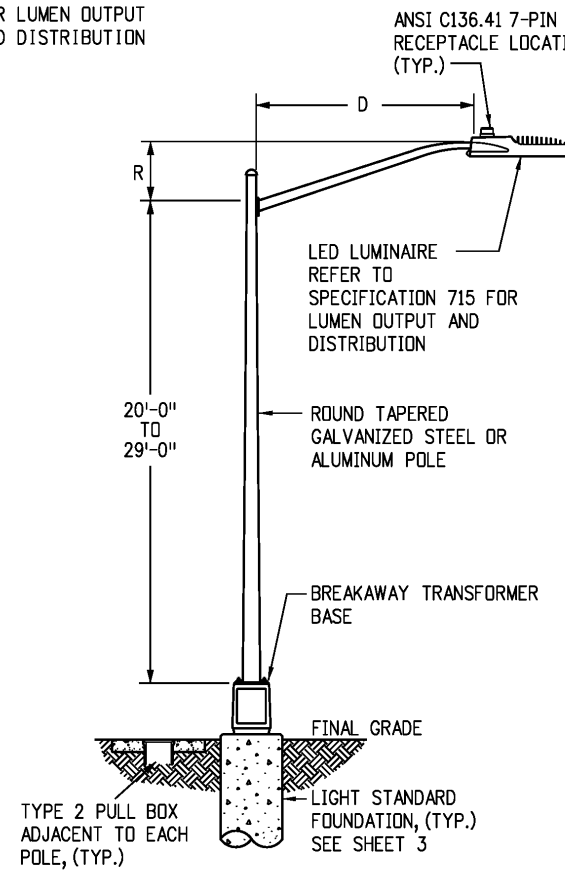
- LUMINAIRES WITH LIGHT SOURCES RATED MORE THAN 3200 LUMENS SHALL HAVE NO UPLIGHT (UO RATING) PER IES TM-15-11 AND MOUNTED LEVEL AND PLUMB.
- ALL LUMINAIRES SHALL BE EQUIPPED WITH AN ANSI C136.41 7-PIN RECEPTACLE AND SHORTING CAP FOR WIRELESS CONTROL NODE.
- ALL LED LUMINAIRES SHALL BE 3000K NOMINAL OR LESS, PER ANSI C78.377-2011 STANDARD AND EQUIPPED WITH A SURGE SUPPRESSION DEVICE WITH AN IMMUNITY LEVEL OF 10kV (MINIMUM). ALL LED LUMINAIRES SHALL BE EQUIPPED WITH A 0-10V OR DALI DIMMING DRIVER.
- LIGHT STANDARDS SHALL NOT BE PLACED IN DITCHES OR OTHER LOW AREAS UNLESS AN ALTERNATIVE LOCATION IS NOT POSSIBLE.
- BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 203.
- POLE CAPS AND BASE PLATE COVERS ARE REQUIRED.
- ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED PER THE APPROPRIATE UL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO 508A INDUSTRIAL CONTROL PANELS.
- ELECTRICAL SPLICES MAY BE MADE WITHIN THE POLE BASE OR TRANSFORMER BASE AT EACH REGIONS DISCRETION. THE CDOT PROJECT MANAGER SHALL CONFIRM WHETHER SPLICE BOXES SHALL BE INSTALLED FOR THE PROJECT OR WHETHER SPLICES SHALL BE MADE IN THE POLE.
- POLE ASSEMBLY SHALL BE SUPPLIED IN SUFFICIENT LENGTH TO ACCOMMODATE LUMINAIRE MOUNTING HEIGHT.
- FINAL LOCATION OF THE LUMINAIRES SHALL BE APPROVED BY THE ENGINEER.
- WHERE FOUNDATION IS LOCATED IN SIDEWALK, PAVERS OR OTHER HARDSCAPE, THE TOP OF FOUNDATION SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK CONFORMING TO ADA REQUIREMENTS.



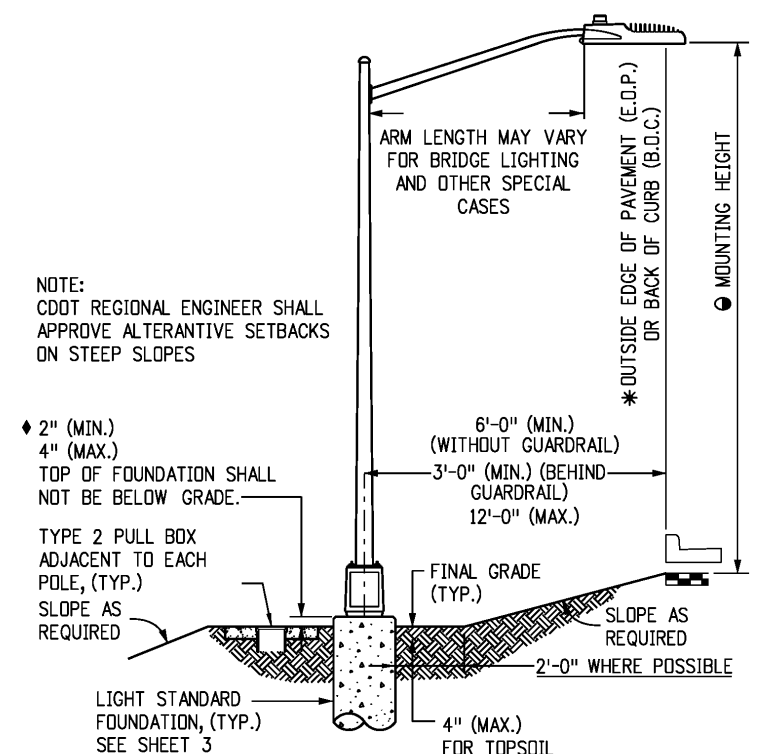
41 FT. TO 70 FT. STANDARD



30 FT. TO 40 FT. STANDARD



20 FT. TO 29 FT. STANDARD



LIGHT STANDARD LOCATION

NOTE:
CDOT REGIONAL ENGINEER SHALL APPROVE ALTERNATIVE SETBACKS ON STEEP SLOPES

2" (MIN.)
4" (MAX.)
TOP OF FOUNDATION SHALL NOT BE BELOW GRADE.
TYPE 2 PULL BOX ADJACENT TO EACH POLE, (TYP.)
SLOPE AS REQUIRED
LIGHT STANDARD FOUNDATION, (TYP.) SEE SHEET 3

ARM LENGTH MAY VARY FOR BRIDGE LIGHTING AND OTHER SPECIAL CASES
* OUTSIDE EDGE OF PAVEMENT (E.O.P.) OR BACK OF CURB (B.O.C.)
6'-0" (MIN.) (WITHOUT GUARDRAIL)
3'-0" (MIN.) (BEHIND GUARDRAIL)
12'-0" (MAX.)
FINAL GRADE (TYP.)
SLOPE AS REQUIRED
2'-0" WHERE POSSIBLE
4" (MAX.) FOR TOPSOIL

Computer File Information

Creation Date: 07/31/19
Created By: Clanton
Last Modification Date: 05/01/2020
Last Modified By: CLANTON AND ASSOCIATES, INC.
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments
11/22/2019	3-BOLT MAST ARM
05/01/2020	DETAIL UPDATES

Colorado Department of Transportation



2829 W. Howard Pl.
Denver, CO 80204
Phone: 303-757-9654
FAX: 303-757-9219

Traffic & Safety Engineering

MKB

ROADWAY LIGHTING

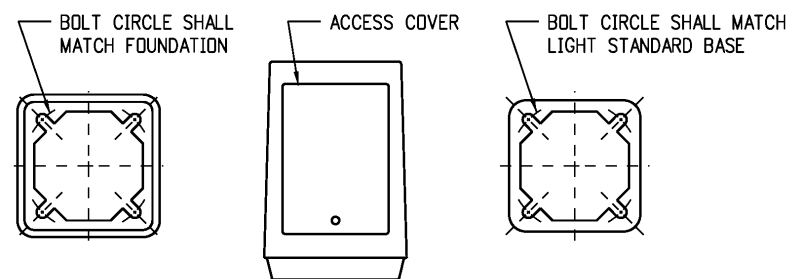
Issued By: Traffic & Safety Engineering Branch July 31, 2019

STANDARD PLAN NO.

S-613-1

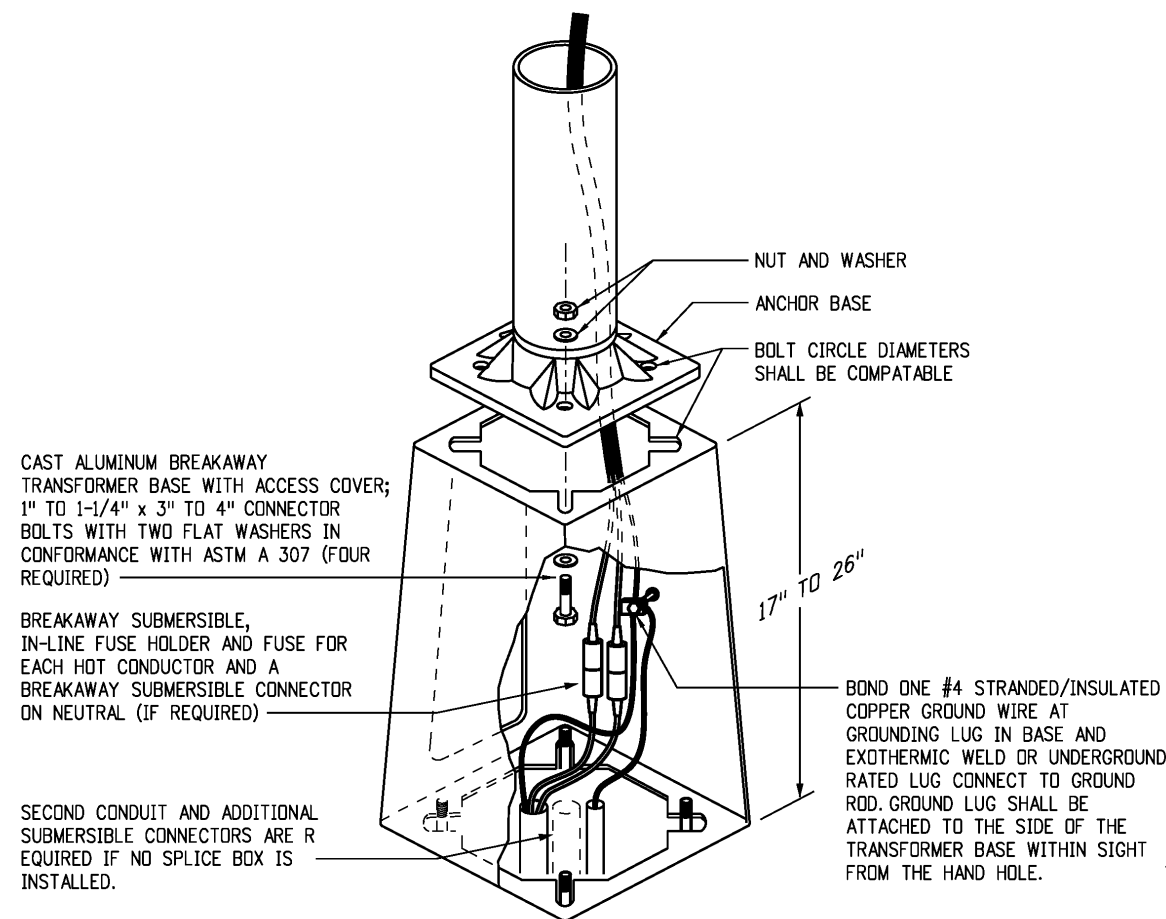
Sheet No. 1 of 6

Project Sheet Number:

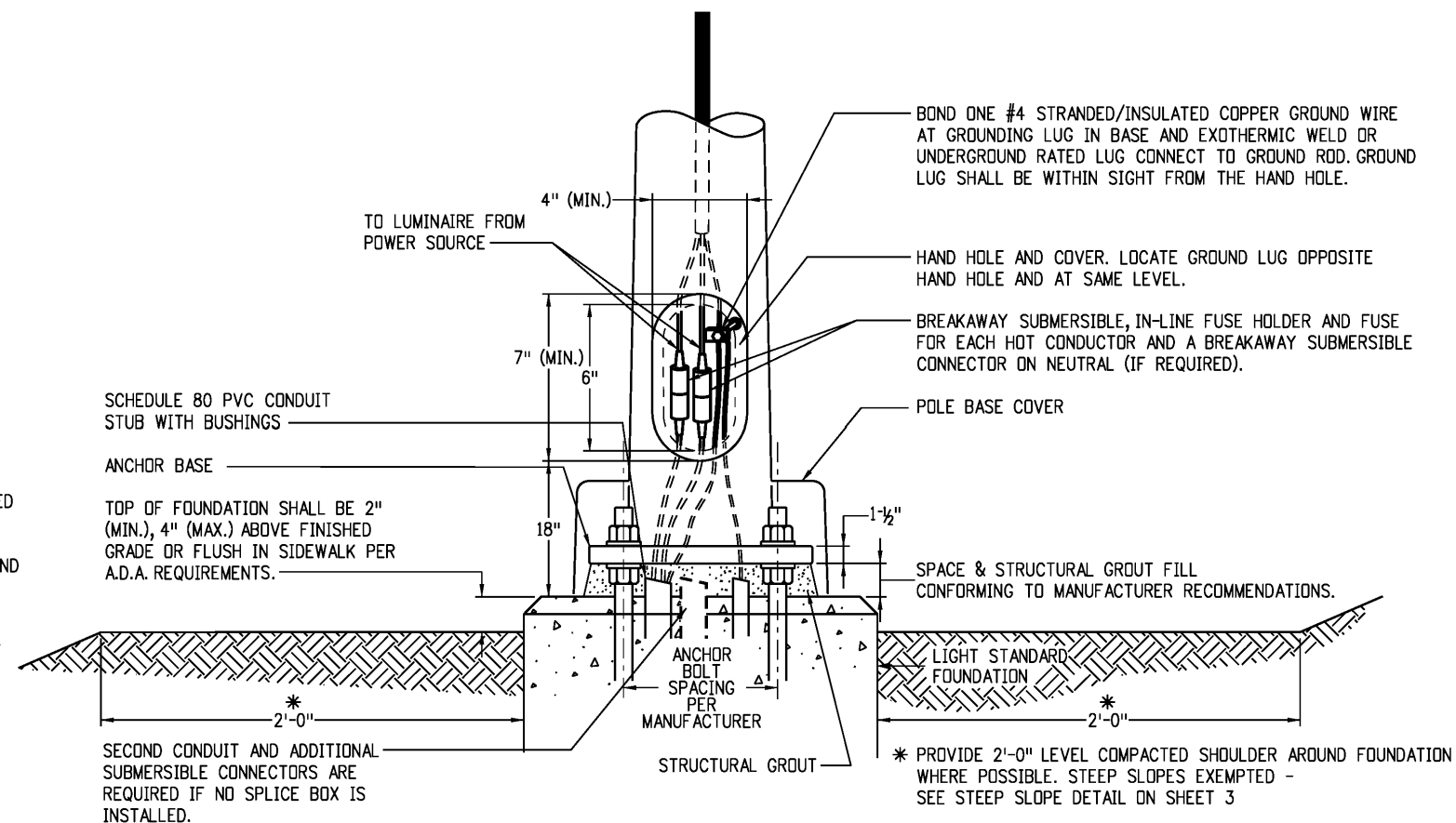


BOTTOM PLATE FRONT VIEW TOP PLATE

NOTE: MATCH EXISTING BREAKAWAY TRANSFORMER BASE AS CLOSELY AS POSSIBLE.




TYPICAL BREAKAWAY TYPE TRANSFORMER BASE DETAIL

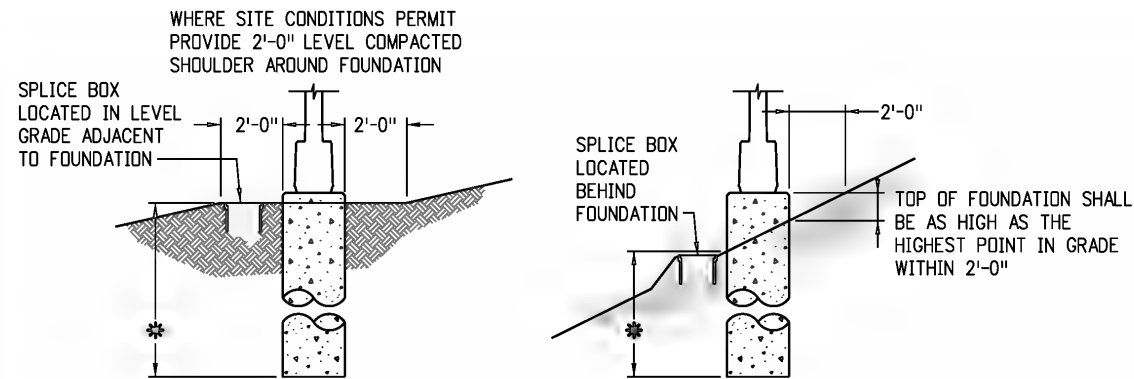


TYPICAL NON-BREAKAWAY BASE DETAIL

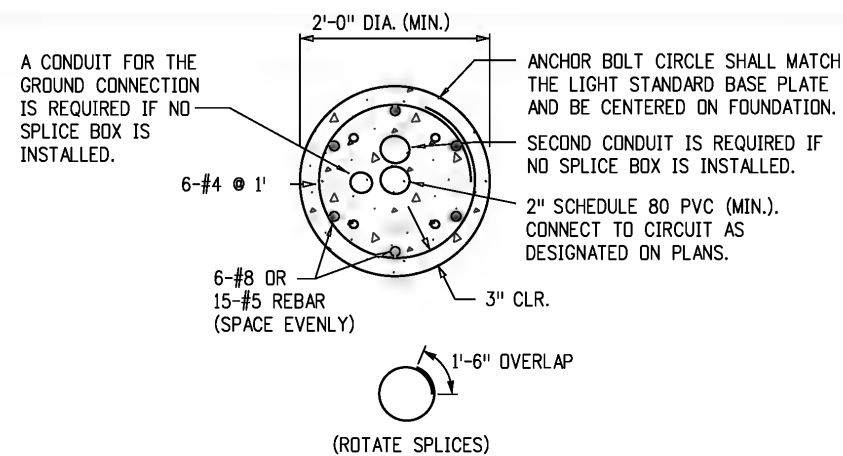
DETAIL NOTES:

1. ALL BREAKAWAY TRANSFORMER BASES SHALL CONFORM TO AASHTO "LRFD SPECIFICATIONA FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
2. ANCHOR BOLT SPACING, HARDWARE AND TORQUE CONFORMING TO MANUFACTURER RECOMMENDATIONS.
3. BREAKAWAY BASES OF ANY TYPE ARE FOR USE INSIDE CLEAR ZONES. BREAKAWAY BASES SHOULD NOT BE USED WHEN THE LIGHT STANDARD IS LOCATED AT LEAST ONE AND A HALF TIMES (1.5X) MOUNTING HEIGHT AWAY FROM PEDESTRIAN OCCUPIED AREAS. REFER TO CURRENT UTILITY ACCOMMODATION CODE SECTION 3.3.3 FOR CLEAR ZONE REQUIREMENTS.
4. BREAKAWAY TRANSFORMER BASES MAY BE OMITTED AND THE POLES MOUNTED DIRECTLY ON THE LIGHT STANDARD FOUNDATION AS APPROVED BY THE ENGINEER OR AS SHOWN ON THE PLAN. POLES WITHOUT BREAKAWAY TRANSFORMER BASES MUST HAVE HAND HOLE.
5. ALL CONDUCTORS SHALL BE SIZED IN CONFORMANCE WITH N.E.C. REQUIREMENTS S.O.D.W. 12/3 STRANDED COPPER CONDUCTOR OR #12 AWG MINIMUM COLOR CODE BLACK, WHITE, GREEN.
6. LIGHT STANDARDS SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. ARTICLE 250 "GROUNDING AND BONDING".

Computer File Information		<div>0000</div> <div>R-1</div> <div>R-2</div>	Sheet Revisions		Colorado Department of Transportation		ROADWAY LIGHTING	STANDARD PLAN NO.	
Creation Date: 07/31/19			Date:	Comments	 <div>2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219</div>	S-613-1			
Created By: Clanton			11/22/2019	DETAIL NOTES UPDATED		Sheet No. 2 of 6			
Last Modification Date: 05/01/2020			05/01/2020	DETAIL UPDATES					
Last Modified By: CLANTON AND ASSOCIATES, INC.									
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English					Traffic & Safety Engineering	MKB	Issued By: Traffic & Safety Engineering Branch July 31, 2019	Project Sheet Number:	



FOUNDATION REQUIREMENTS FOR STEEP SLOPES



TYPICAL FOUNDATION SECTION

NOTES:

- DIMENSIONS FOR THE TRANSFORMER BASE, ANCHOR BASE AND ANCHOR BOLTS ARE VARIABLE FOR THE HEIGHT OF THE LIGHT STANDARD AND THE MAST ARM CONFIGURATION. ALL COMPONENTS SHALL FIT AND ACCOMMODATE THE REQUIREMENTS OF THE LIGHT STANDARD SUPPLIED.
- CONCRETE SHALL BE AIR ENTRAINED CLASS BZ AND SHALL CONFORM TO SECTION 601 FOR CONCRETE AND SECTION 602 FOR REINFORCING STEEL.
- WHERE LIGHT STANDARD FOUNDATION OCCUR IN HARDSCAPE AREAS, WHERE AN EXPOSED FOUNDATION COULD CREATE A TRIPPING HAZARD, THE TOP OF FOUNDATION SHALL BE FLUSH TO THE FINISHED SURFACE TO MEET A.D.A. REQUIREMENTS. WHERE EXPOSED LIGHT STANDARD FOUNDATION COMPLIES WITH A.D.A. REQUIREMENTS, FOUNDATION SHALL BE INSTALLED 2 INCHES ABOVE HARDSCAPE WITH CDOT APPROVAL.
- BOND (1) #4 STRANDED/INSULATED COPPER TO GROUND ROD IN PULL BOX / SPLICE BOX AND GROUNDING LUG IN POLE BASE HAND HOLE.
- PROVIDE 4-TERMINAL SUBMERSIBLE UNDERGROUND RATED LUG CONNECTIONS TO FIT #12 AWG - #350 AWG COPPER WIRE. ELECTRICAL SPLICES MAY BE MADE WITHIN THE POLE BASE OR TRANSFORMER BASE AT EACH REGION'S DISCRETION. SUBMERSIBLE UNDERGROUND RATED LUG CONNECTIONS ARE NOT REQUIRED WHEN SPLICES ARE MADE IN THE POLE.
- ALL PVC CONDUIT ENDS SHALL HAVE END BELLS OR MALE ADAPTOR, THREADED TERMINAL ENDS WITH SCREW ON BUSHING.
- FOUNDATION DIMENSIONS PER FOUNDATION SCHEDULE BELOW AND AS NOTED. LIGHT STANDARDS HIGHER THAN 50 FEET OR WITH BANNERS, PRECAST FOUNDATION, VARYING SOIL, OR WIND CONDITIONS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF COLORADO. FOR DESIGN WIND SPEEDS GREATER THAN V=155MPH ADD AN ADDITIONAL 1'-0" TO THE FOUNDATION DEPTH SHOWN IN THE FOUNDATION SCHEDULE BELOW.

FOUNDATION SCHEDULE

POLE HEIGHT	FOUNDATION DEPTH	FOUNDATION DIAMETER
< 20'	8'-0"	24"
20' - < 30'	9'-0"	24"
30' - 50'	12'-0"	24"
> 50'	P.S.E.	P.S.E.

P.S.E. (PER STRUCTURAL ENGINEER)

FOUNDATION DESIGN DATA:

BROMS' METHOD USING AASHTO LRFD LTS 1ST, 2015 WITH 2018 INTERIMS.

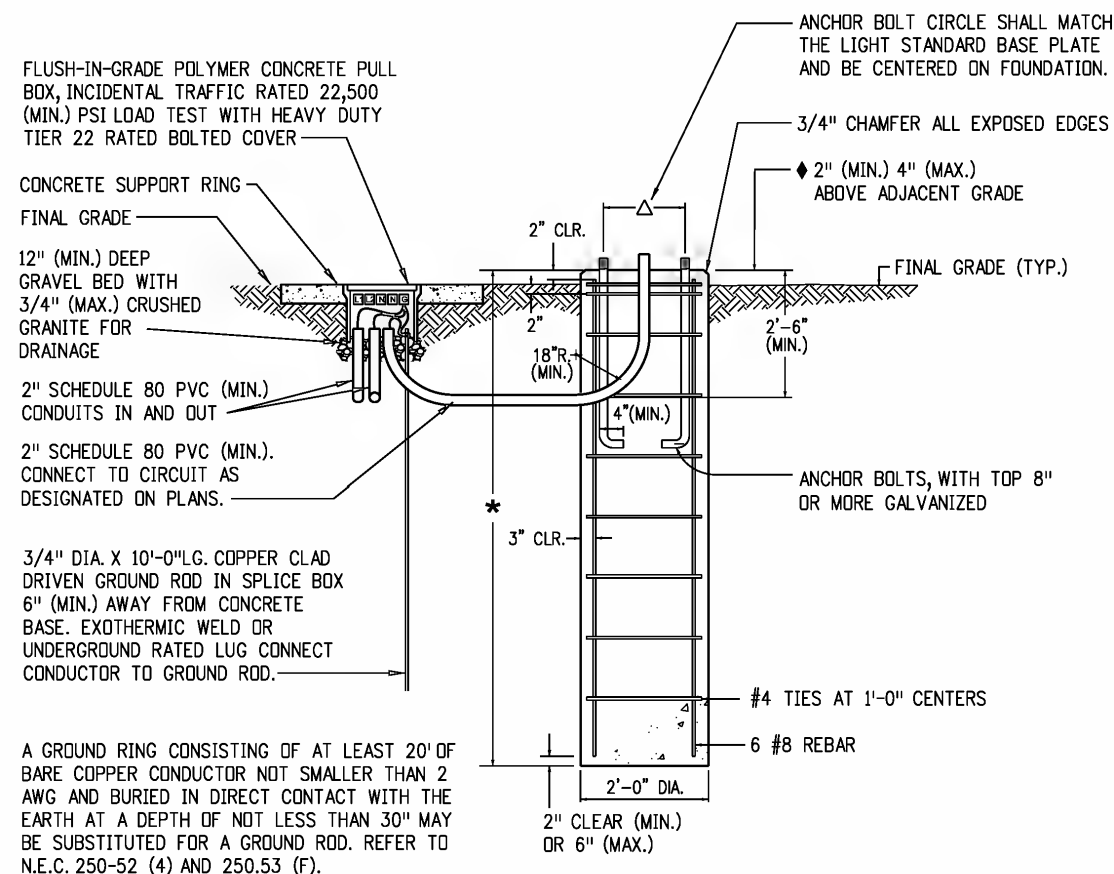
THE DESIGN ASSUMES FOLLOWING SOIL PARAMETERS:

SOIL DENSITY = 110 LB/CF

SOIL COHESION = 750 LB/SQFT FOR MEDIUM STIFF COHESIVE SOIL

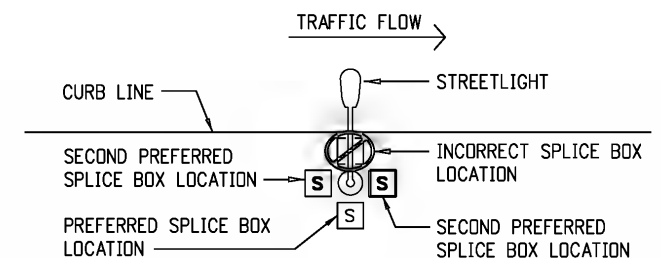
SOIL ANGLE = 30° FOR MEDIUM DENSE COHESIONLESS SOIL

RESISTANCE FACTOR = 0.4 FOR FLEXURE.




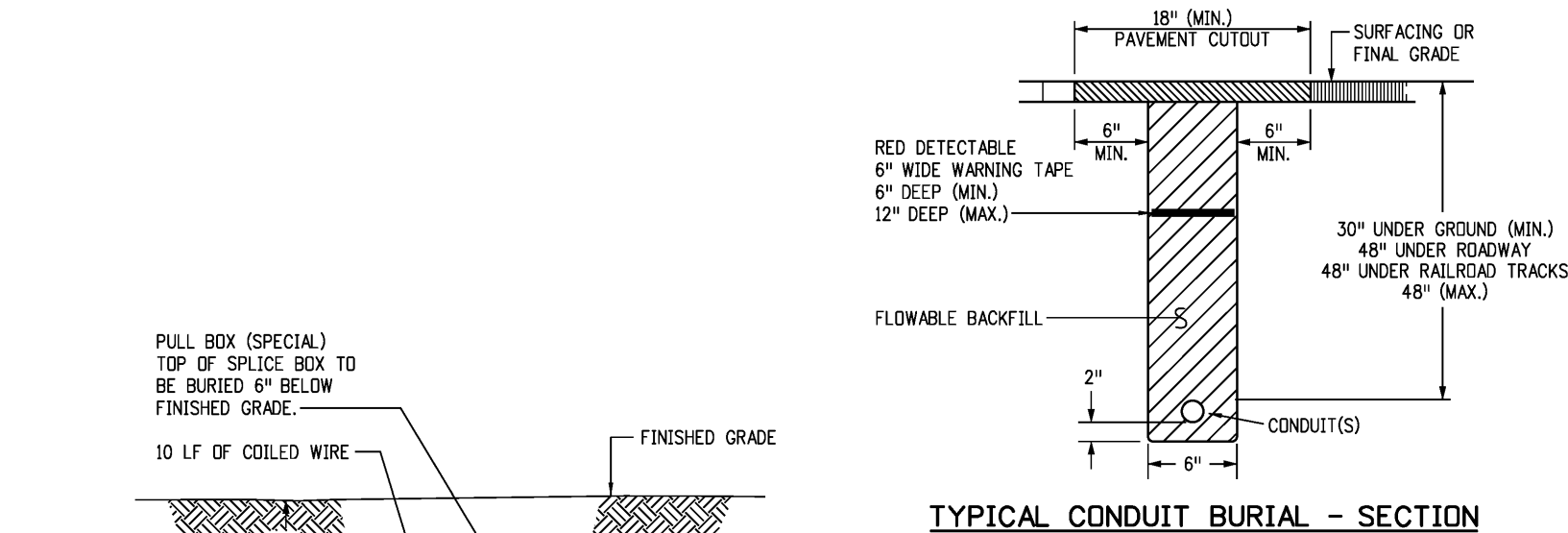
TYPICAL CONCRETE LIGHT STANDARD FOUNDATION

LIGHT STANDARD FOUNDATION SHALL BE CAST-IN-PLACE CONCRETE. A COMPLETE FOUNDATION INCLUDES THE CLASS BZ CONCRETE, REINFORCING STEEL, PVC STUB OUT(S), GROUNDING ELECTRODE(S), ANCHOR BOLTS AND CONNECTOR BOLTS (FOR BREAKAWAY TYPE TRANSFORMER BASES).

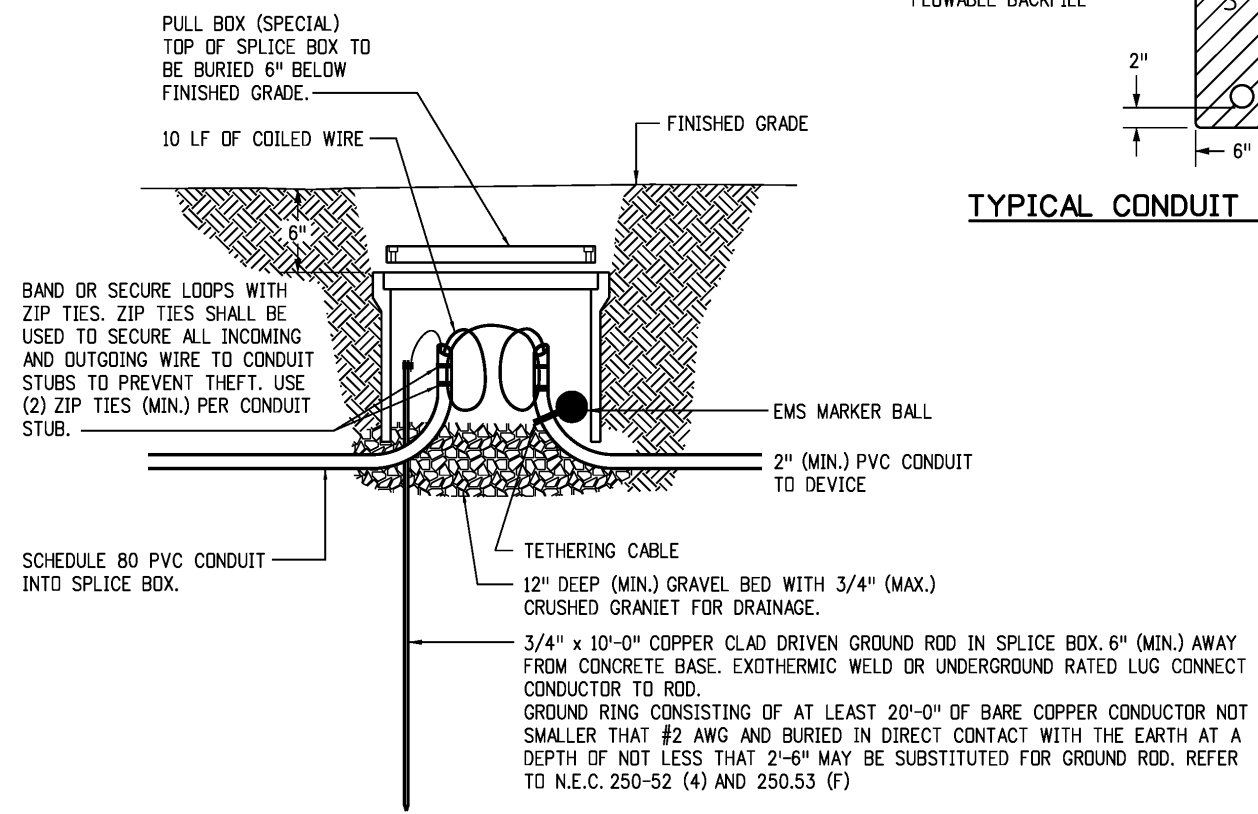


TYPICAL STREET LIGHT SPLICE BOX PLACEMENT

Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	ROADWAY LIGHTING		S-613-1
Created By: Clanton		11/22/2019	FOUNDATION SOIL				Sheet No. 3 of 6
Last Modification Date: 05/01/2020		05/01/2020	DETAIL UPDATES				Project Sheet Number:
Last Modified By: CLANTON AND ASSOCIA INC.					Issued By: Traffic & Safety Engineering Branch July 31, 2019		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units:				Traffic & Safety Engineering	MKB		



TYPICAL CONDUIT BURIAL - SECTION



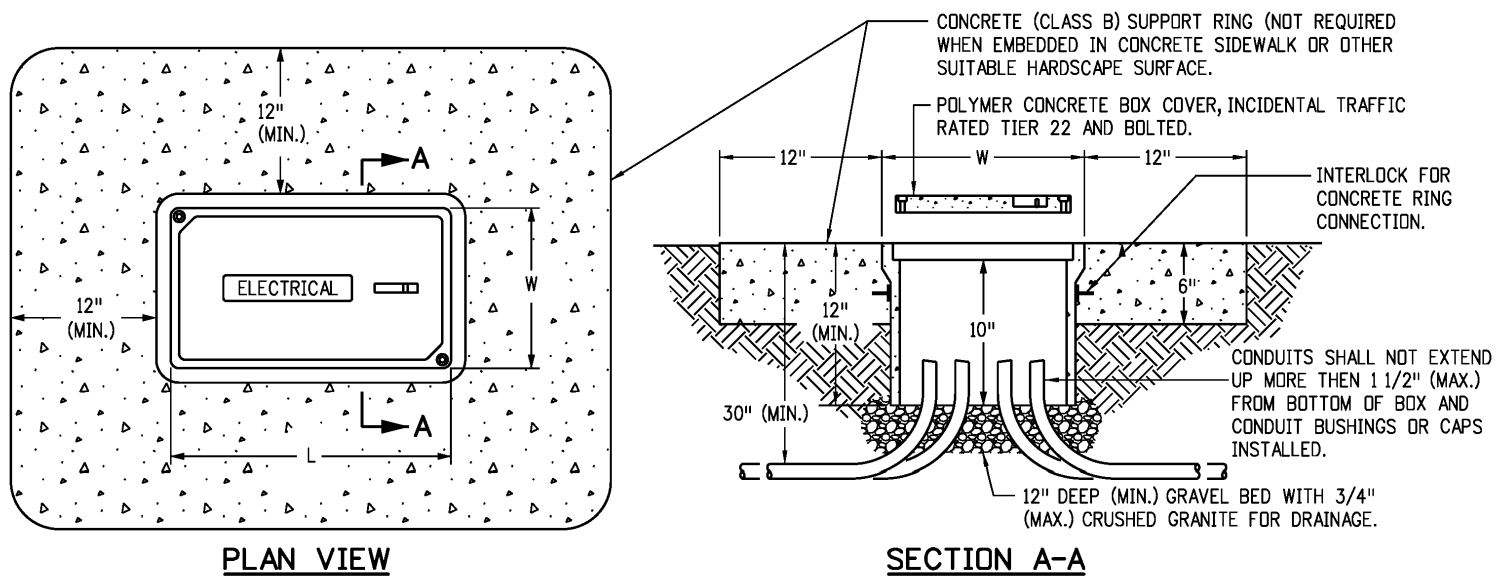
BURIED SPLICE BOX WITH EMS MARKER BALL

BURIED SPLICE BOX NOTES

1. ALL PULL BOXES SHALL BE INCIDENTAL TRAFFIC RATED 22,500 PSI LOAD TEST (MINIMUM) WITH HEAVY DUTY TIER 22 RATED COVERS.
2. ALL PULL BOXES SHALL BE TYPE 2.13 INCHES x 24 INCHES x 12 INCHES DEEP (MINIMUM) UNLESS NOTED OTHERWISE ON PLANS. REFER TO N.E.C. SECTION 314.28A FOR BOX SIZE REQUIREMENTS. REFER TO CDDT STANDARD PLAN NO. S-613-3 FOR TYPICAL PULL BOX SIZES.
3. ALL PULL BOXES SHALL BE BURIED 6 INCHES BELOW FINAL GRADE AND COVERED WITH EMBANKMENT AND TOPSOIL. BURIED PULL BOXES SHALL NOT BE COVERED WITH CONCRETE, ASPHALT, ROCK OR ANY OTHER HARDSCAPING. CONCRETE SUPPORT RING IS NOT REQUIRED FOR THESE SPECIAL BURIED ANTI-THEFT PULL BOXES.
4. CONNECT COPPER GROUND WIRE TO HELICAL FOUNDATION.
5. BURIED SPLICE BOXES SHALL ONLY BE USED WHERE APPROVED BY CDDT ENGINEER.
6. THE WIRE TERMINATIONS IN PULL BOXES SHALL BE MADE USING URG, SUBMERSIBLE INSULATED PEDESTAL LUG CONNECTIONS. PROVIDE ONE MULTI-LUG CONNECTOR FOR EACH PHASE, NEUTRAL AND GROUND CONDUCTOR TO BE SPLICED IN THE IN-GRADE PULL BOX.

CONDUIT BURIAL NOTES

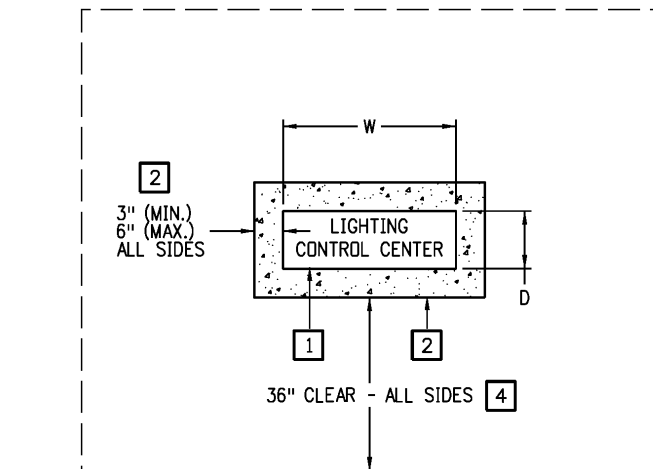
1. CONTRACTOR SHALL COORDINATE TRENCHING WITH OTHER UNDERGROUND UTILITIES, RAMP METERING AND IRRIGATION. CONTRACTOR SHALL USE COMMON TRENCHES AT ALL ROAD CROSSINGS WHERE POSSIBLE.
2. ONE CONDUIT PER BUNDLE SHALL HAVE ONE #12 AWG LOCATE WIRE AND A NYLON OR POLYESTER PULL TAPE WITH 1,250 LBS TEST STRENGTH AND FOOTAGE MARKINGS IN ALL EMPTY CONDUITS. LOCATE WIRES SHALL NOT BE INSTALLED IN FIBER OPTIC CONDUITS.
3. ELECTRICAL CONDUIT (BORED) SHALL BE UL LISTED HDPE AND INSTALLED USING TRENCHLESS TECHNOLOGY OR EITHER JACKED CONDUIT OR DIRECTIONAL BORING. IF TRENCHED CONDUIT IS SPECIFIED ON PLANS, BORED CONDUIT OF EQUAL OR GREATER SIZE MAY BE SUBSTITUTED FOR TRENCHED CONDUIT IF PAID FOR UNDER THE ORIGINALLY DESIGNED TRENCHED CONDUIT PAY ITEM AND AT NO ADDITIONAL COST TO THE PROJECT. ELECTRICAL CONDUIT (BORED) SHALL CONFORM TO THE SAME MINIMUM DEPTH REQUIREMENTS.
4. INSTALLING CONDUIT IN ANY METHOD OTHER THAN TRENCHING OR DIRECTIONAL BORE, THAT MAY CAUSE DAMAGE TO THE EMBANKMENT OR HIGHWAY AREA, OR BE HAZARDOUS TO THE TRAVELING PUBLIC WILL NOT BE PERMITTED. WHEN JACKING IS SPECIFIED, DISRUPTION OF HIGHWAY TRAFFIC WILL NOT BE PERMITTED.
5. FOR ALL SCHEDULE 80 PVC CONDUIT, PROVIDE SLIP FIT EXPANSION FITTINGS AT 100 FOOT INTERVALS AND 6 FEET (MAXIMUM) FROM EACH ELBOW. EXPANSION FITTINGS WILL BE INSTALLED PER N.E.C. REQUIREMENTS FOR 65 DEGREE FAHRENHEIT TEMPERATURE CHANGE.
6. FOR ALL TRENCHED CONDUIT, ELBOWS SHALL BE WIDE SWEEPS (36-INCHES MINIMUM) WITH PVC COATED GRC ON THE OUTSIDE AND THREADED COUPLINGS.
7. ALL PVC CONDUIT ENDS IN PULL BOXES SHALL HAVE END BELLS OR MALE ADAPTOR, THREADED TERMINAL ENDS WITH SCREW ON BUSHING.



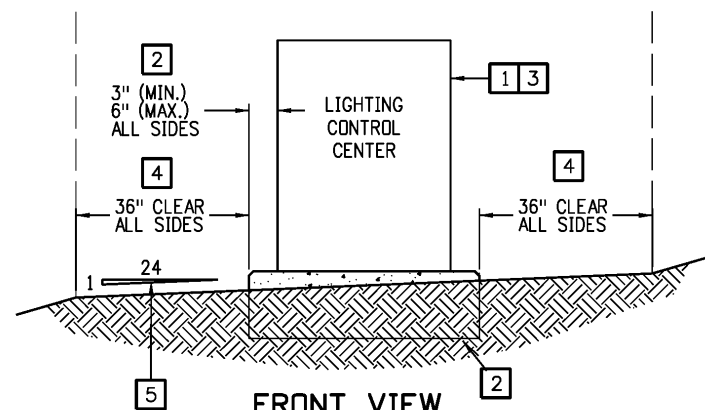
SPLICE BOX NOTES

1. BOX COVERS MUST BE POLYMER CONCRETE WITH FIBERGLASS REINFORCEMENT, INCIDENTAL TRAFFIC RATED TO TIER 22 AND BOLTED WITH AN HS LOAD RATING OF 22,500 PSI (MINIMUM).
2. BOX COVERS SHALL BE LABELED AS FOLLOWS:
"ELECTRIC" OR "STREET LIGHTING" ON ALL PULL BOXES CONTAINING CDDT OWNED ELECTRICAL SERVICE.
"UTILITY ELECTRIC" ON ALL PULL BOXES CONTAINING UTILITY OWNED ELECTRICAL SERVICE.
LABELING MUST BE CAST INTO THE COVER AND NOT AS A SEPARATE INDEPENDENT TAG.
3. REFER TO CDDT STANDARD PLAN No. S-613-3 FOR TYPICAL PULL BOX SIZES.
4. REFER TO N.E.C. ARTICLE 314 "PULL AND JUNCTION BOXES AND CONDUIT BODIES MINIMUM SIZE" FOR BOX SIZE REQUIREMENTS. REFER TO CDDT SPECIFICATION 601 FOR CAST-IN-PLACE CONCRETE SPECIFICATION.
5. THE WIRE TERMINATIONS IN PULL BOXES SHALL BE MADE USING URG, SUBMERSIBLE INSULATED PEDESTAL LUG CONNECTIONS. PROVIDE ONE MULTI-LUG CONNECTOR FOR EACH PHASE, NEUTRAL AND GROUND CONDUCTOR TO BE SPLICED IN THE IN-GRADE PULL BOX.

Computer File Information		Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic & Safety Engineering	ROADWAY LIGHTING	STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments			S-613-1	
Created By: Clanton	(R-1)	11/22/2019	UNDER ROADWAY DEPTH			Sheet No. 4 of 6	
Last Modification Date: 05/01/2020	(R-2)	05/01/2020	DETAIL UPDATES			Project Sheet Number:	
Last Modified By: CLANTON AND ASSOCIATES, INC.							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English				MKB	Issued By: Traffic & Safety Engineering Branch July 31, 2019		



PLAN VIEW

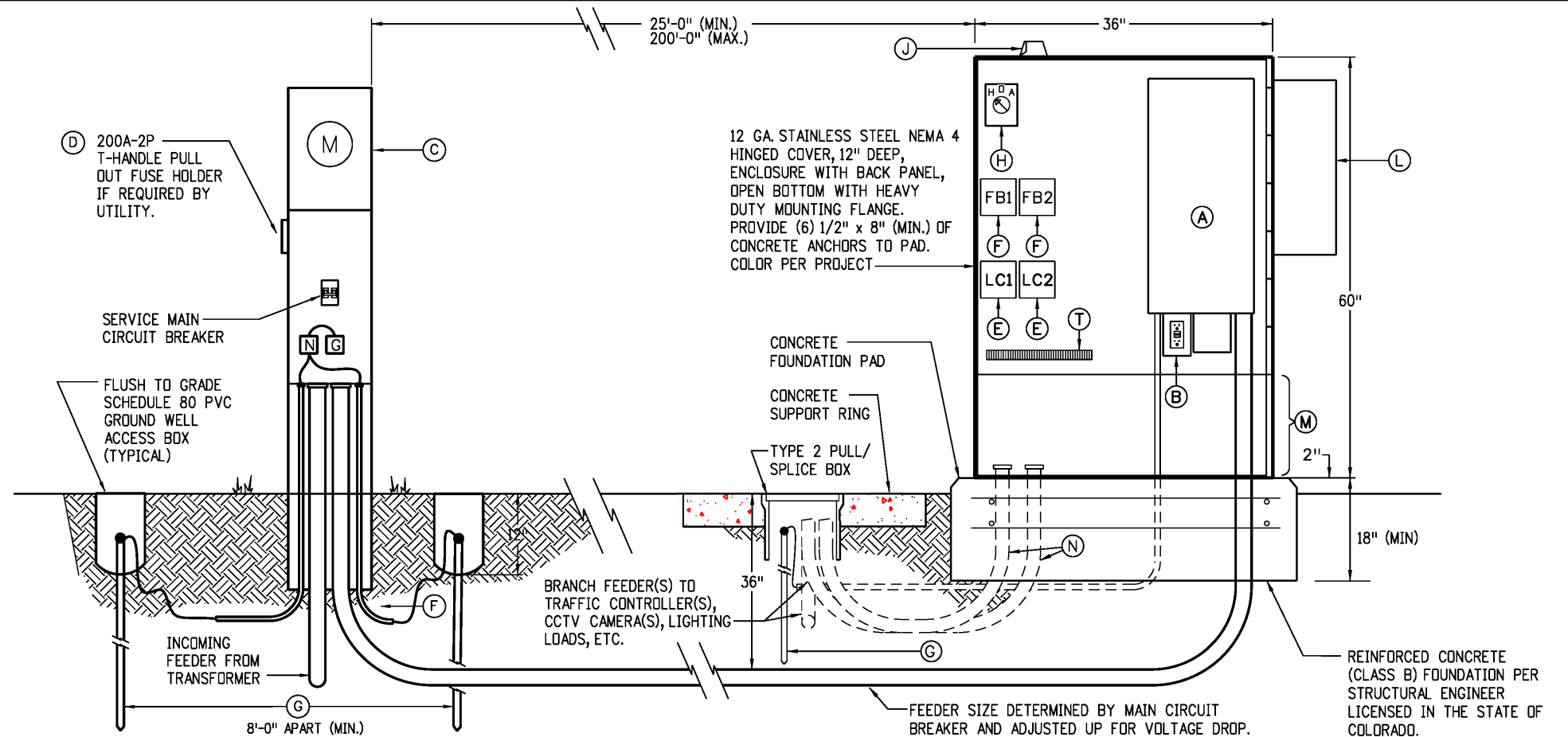


FRONT VIEW

LIGHTING CONTROL CENTER PLACEMENT

DETAIL NOTES


- 1 PREBUILT NEMA 3R LIGHTING CONTROL CENTER CABINET (LCC). REFER TO LIGHTING CONTROL CENTER DETAILS FOR MORE INFORMATION.
- 2 REINFORCED CONCRETE (CLASS B) FOUNDATION PAD, PER STRUCTURAL ENGINEER LICENSED IN THE STATE OF COLORADO, WITH 1 INCH CHAMFER ON ALL EXPOSED EDGES. EDGE OF CONCRETE TO EXTEND 3 INCHES (MINIMUM) OR 6 INCHES (MAXIMUM) BEYOND EDGE OF CABINET.
- 3 THE LCC SHALL NOT BE LOCATED IN ANY INTERSECTION SIGHT TRIANGLES. PLACEMENT SHALL CONFORM TO ALLOWABLE ENCROACHMENTS IN THE PUBLIC ROW.
- 4 36 INCH CLEAR ZONE (MINIMUM) ON ALL SIDES OF CONCRETE PAD WHEN LOCATED IN SOFTSCAPE. 48 INCHES OF CLEAR ZONE (MINIMUM) ON ALL SIDES OF CONCRETE PAD WHEN LOCATED WITHIN THE SIDEWALK.
- 5 1:24 SLOPE (MAXIMUM) IN CLEAR ZONE AREA.

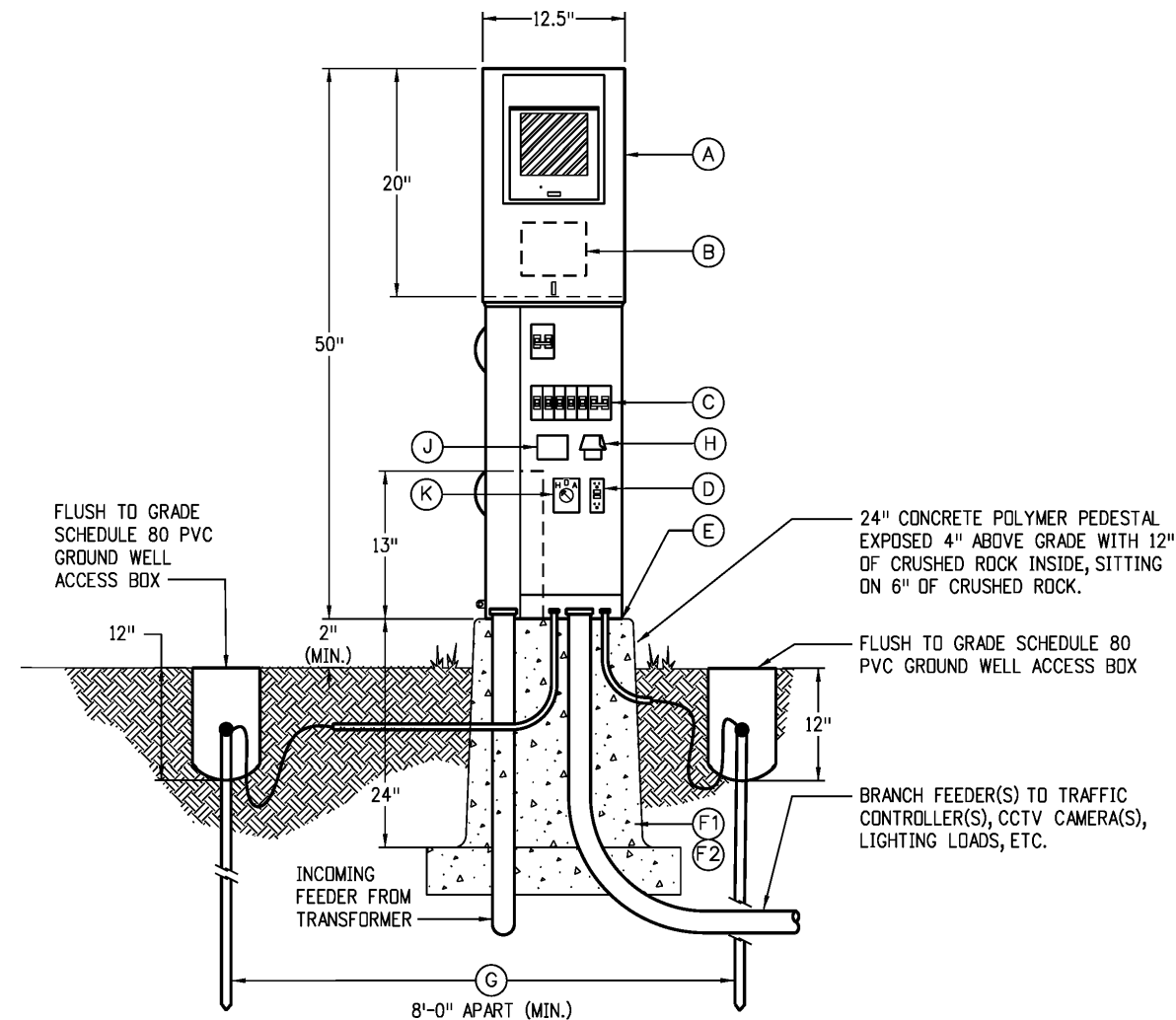


COMPONENT LIST

- (A) NEMA 1, SERVICE ENTRANCE RATED, SINGLE PHASE LOAD CENTERS. (SEE PANEL SCHEDULE FOR QUANTITY AND SIZE OF MAIN AND BRANCH BREAKERS). MOUNTED INSIDE NEMA 4 ENCLOSURE.
 - (B) GFCI MAINTENANCE RECEPTACLE IN A 1-GANG BACK BOX WITH COVER.
 - (C) 200A, 1 PH., NEMA 3R, DIRECT BURY METER PEDESTAL SERVICE ENTRANCE RATED WITH LEVER BYPASS TO UTILITY COMPANY SPECIFICATIONS. PROVIDE SERVICE MCB SIZE AS INDICATED ON ONE-LINE DIAGRAM WITH NEUTRAL & GROUND BARS.
 - (D) 200A, 2 POLE, 250V, HEAVY DUTY, NEMA 3R, T-HANDLE PULL-OUT METER DISCONNECT, UL LISTED FOR SERVICE EQUIPMENT AND TYPE AND SIZE FUSES AS SHOWN ON ONE-LINE DIAGRAM. MAY BE OMITTED BY UTILITY COMPANY SPECIFICATIONS NOT SEQUENCE REQUIREMENTS.
 - * (E) 4 POLE, 30A, 250V ELECTRICALLY HELD LIGHTING CONTACTORS WITH 120V COILS. TWO (2) REQUIRED.
 - * (F) 4 POLE, 30A, FUSE BLOCKS WITH 30A, FRNR FUSES TO THE LIGHTING CONTACTORS AS REQUIRED BY UL 508A (2001 STANDARD FOR INDUSTRIAL CONTROL PANELS). TWO (2) REQUIRED.
 - (G) 3/4 INCH x 10 FEET LONG, COPPER-CLAD DRIVEN GROUND ROD WITH GROUND CONDUCTOR EXOTHERMIC WELD OR UNDERGROUND RATED LUG CONNECT GROUND CONDUCTOR TO GROUND ROD. PROVIDE SCHEDULE 80 PVC GROUND WELLS.
 - * (H) H.O.A. SWITCH - HAND-OFF-AUTO WITH 15A 120V CONTACTS, BACK BOX, COVER, KNOB & LEGEND AND THE PHOTOCELL CONTROL WIRED IN THE AUTO POSITION.
 - * (J) NEMA 3R 120V PHOTOELECTRIC CONTROL WITH 3-PRONG TWIST-LOCK RECEPTACLE BASE WIRED THROUGH THE H.O.A. SWITCH. THE PHOTOELECTRIC CONTROL SHALL BE MOUNTED ON THE NORTH SIDE ON ENCLOSURE OR WINDOW FACING NORTH OR DOWN TO MINIMIZE THE SUN'S INTERFERENCE.
 - (L) OPTIONAL CABINET HVAC PER ENGINEERING REQUEST. PAINT TO MATCH NEMA 4 ENCLOSURE.
 - (M) OPTIONAL 18 INCH HIGH SKIRT PER ENGINEERING REQUEST.
 - (N) BRANCH RACEWAYS - PROVIDE BRANCH CIRCUIT RACEWAY TO ALL LIGHTING FED FROM THIS LCC. SEE PLAN AND FEEDER SCHEDULE FOR SIZE AND QUANTITY.
 - (T) TERMINAL STRIP - 600V RATED, LUGS TO ACCEPT #1 - 10 AWG COPPER WITH ALL MARKING STRIP, END CAPS AND MOUNTING HARDWARE. PROVIDE THE NUMBER OF TERMINAL POINTS AS REQUIRED, MINIMUM OF 36 POINTS.
- NOTE: ALL COMPONENTS LISTED SHALL BE INCLUDED IN THE LIGHTING CONTROL CENTER PAY ITEM. ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED PER THE APPROPRIATE UL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO 508A INDUSTRIAL CONTROL PANELS.
- * ONLY REQUIRED FOR LOADS NOT CONTROLLED BY LOCAL NODES.

RECOMMENDED CABINET TYPE LIGHTING CONTROL CENTER DETAIL

Computer File Information		<div>0000</div> <div>R-1</div> <div>R-2</div>	Sheet Revisions		<div>Colorado Department of Transportation</div> <div><div></div><div>2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219</div></div> <div>Traffic & Safety Engineering</div> <div>MKB</div>	STANDARD PLAN NO.	
Creation Date: 07/31/19			Date: 11/22/2019	Comments: COMPONENTS CLARIFIED		S-613-1	
Created By: Clanton			Date: 05/01/2020	Comments: DETAIL UPDATES		Sheet No. 5 of 6	
Last Modification Date: 05/01/2020						Project Sheet Number:	
Last Modified By: CLANTON AND ASSOCIATES, INC.							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							



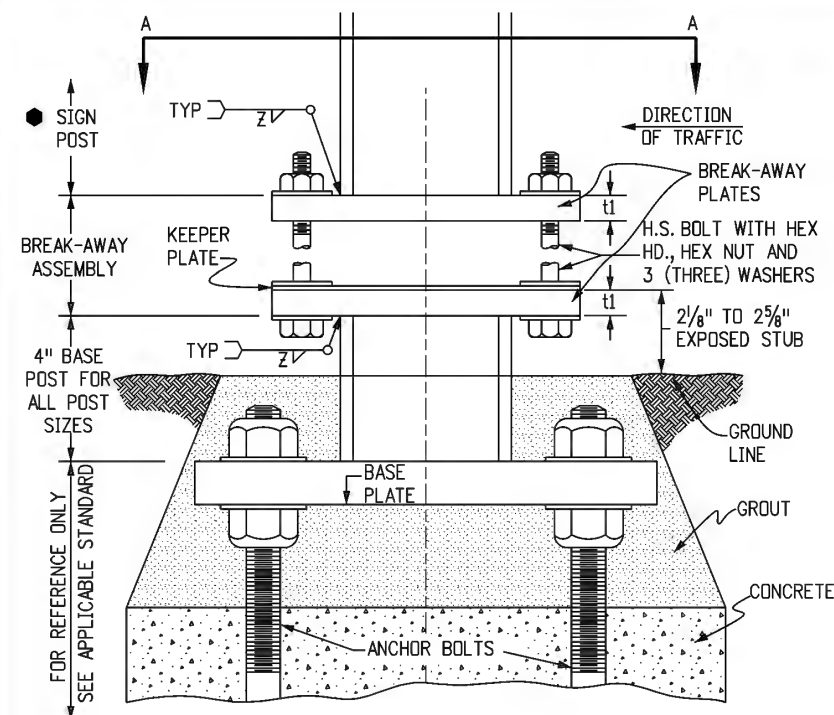
LIGHTING CONTROL CENTER (PEDESTAL ONLY) DETAIL

COMPONENT LIST

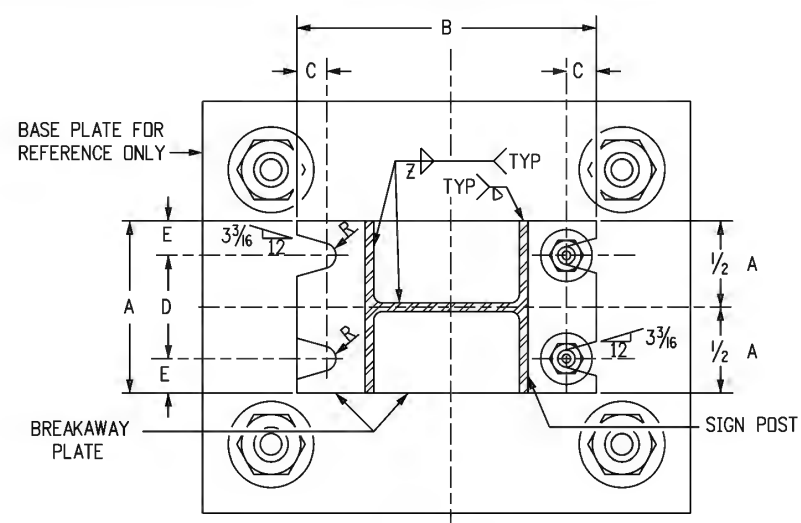
- (A) STAINLESS STEEL, 200A, 120/240V, NEMA 3R COMBINATION, SERVICE ENTRANCE RATED, COLD SEQUENCE, METER/POWER PEDESTAL WITH LEVER BYPASS, LOAD CENTER, MCB AND FUSED TEE-HANDLE PULL OUT DISCONNECT AHEAD OF METER TO LOCAL UTILITY SPECIFICATIONS. SEE PANEL SCHEDULE FOR SIZE OF MAIN AND NUMBER AND SIZE OF BRANCH BREAKERS REQUIRED. SET ENCLOSURE ON CONCRETE PAD PLUMB AND LEVEL.
- (B) T-HANDLE, PULL-OUT FUSE TYPE METER, DISCONNECT FLUSH MOUNTED INTO THE BACK SIDE OF THE ENCLOSURE FOR METER PROTECTION PER UTILITY SPECIFICATION, COLD SEQUENCE METER WITH WEATHERPROOF COVER AND TAB FOR SEAL. THIS ITEM MAY BE OMITTED BY UTILITY COMPANY SPECIFICATIONS HOT SEQUENCE REQUIREMENTS.
- (C) SERVICE ENTRANCE PANEL BREAKER SECTION, FOR CUSTOMER LOADS. SEE PANEL SCHEDULES FOR SIZE OF BREAKERS AND NUMBER OF POLES REQUIRED.
- (D) OPTIONAL BUILT-IN GFCI NEMA 5-20R, DUPLEX, GFCI MAINTENANCE RECEPTACLE FLUSH MOUNTED IN PANEL DEAD-FRONT.
- (E) PROVIDE RECESSED CONCRETE PAD MOUNTING PLATE WITH L-BOLTS TO MATCH THE ENCLOSURE BASE BOLT PATTERN.
- (F1) OPTION 1: POLYMER CONCRETE PEDESTAL FOUNDATION WITH FIBERGLASS REINFORCEMENT. THE PAD SHALL BE CONTINUOUS CLOTH REINFORCEMENT ON THE INSIDE AND OUTSIDE PERIMETER. WEIGHT OF THE FOUNDATIONS SHALL BE STENCILED ON THE SIDEWALL OF THE FOUNDATION.
- (F2) OPTION 2: PROVIDE 4500 PSI, RE-BAR REINFORCED, CONCRETE WITH A DIRECT EARTH BURY DEPTH OF 18 INCHES (MINIMUM), 2 INCHES OVERLAP OF THE ENCLOSURE ON ALL SIDES FRONT AND BACK AND 2 INCHES EXPOSURE ABOVE GRADE. PROVIDE 3/4 INCH CHAMFERED EDGES. PROVIDE STRUCTURAL ENGINEERING STAMPED DRAWING FOR PAD.
- (G) 3/4 INCH x 10 FEET LONG, COPPER-CLAD DRIVEN GROUND RODS. EXOTHERMIC WELD OR UNDERGROUND LUG CONNECT CONDUCTOR TO ROD. TWO (2) GROUND RODS REQUIRED. GROUND ROD TO BE LOCATED IN SCHEDULE 80 PVC GROUND WELL ACCESS WITH BOLT DOWN COVER AND "GROUND" CAST INTO LID.
- (H) OPTIONAL PHOTOCELL - NEMA 3R 120V PHOTOELECTRIC CONTROL WITH 3-PRONG TWIST-LOCK RECEPTACLE BASE. THE PHOTOCELL SHALL BE MOUNTED INSIDE THE ENCLOSURE WITH A GLASS LENS COVERED HOLE IN THE EXTERIOR OF THE ENCLOSURE TO ALLOW THE PHOTOCELL TO RECEIVE DAYLIGHT.
- (J) OPTIONAL LIGHTING CONTACTOR - CONTROLLED BY OPTIONAL PHOTOCELL ITEM 'H' ABOVE WHEN MORE THAN ONE CIRCUIT IS TO BE CONTROLLED BY THE PHOTOCELL.
- (K) OPTIONAL HAND-OFF-AUTO SWITCH WHEN ITEMS 'H' AND 'J' ABOVE ARE USED. PROVIDE THIS HOA SWITCH WITH THE PHOTOCELL CONTROL WIRED IN THE AUTO POSITION.

NOTE: ALL COMPONENTS LISTED SHALL BE INCLUDED IN THE LIGHTING CONTROL CENTER PAY ITEM. ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED PER THE APPROPRIATE UL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO 508A INDUSTRIAL CONTROL CENTER.

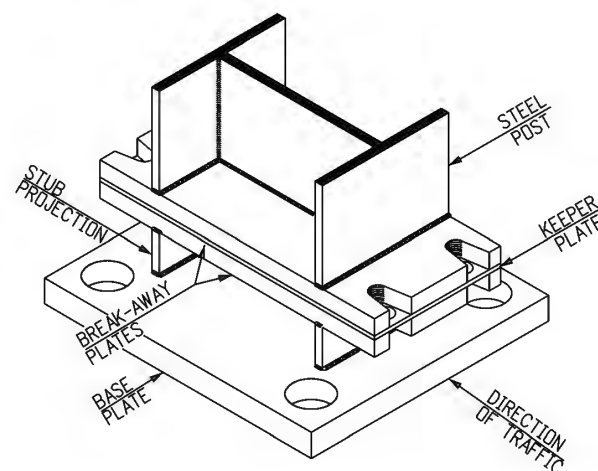
Computer File Information		Sheet Revisions		<div>Colorado Department of Transportation</div> <div> 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219</div> <div>Traffic & Safety Engineering</div> <div>MKB</div>	STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments		ROADWAY LIGHTING	S-613-1
Created By: Clanton	(R-1)	11/22/2019	COMPONENT B METER PROTECTION			Sheet No. 6 of 6
Last Modification Date: 05/01/2020	(R-2)	05/01/2020	COMPONENT J LIGHTING CONTACTOR		Issued By: Traffic & Safety Engineering Branch July 31, 2019	Project Sheet Number:
Last Modified By: CLANTON AND ASSOCIATES, INC.						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English						



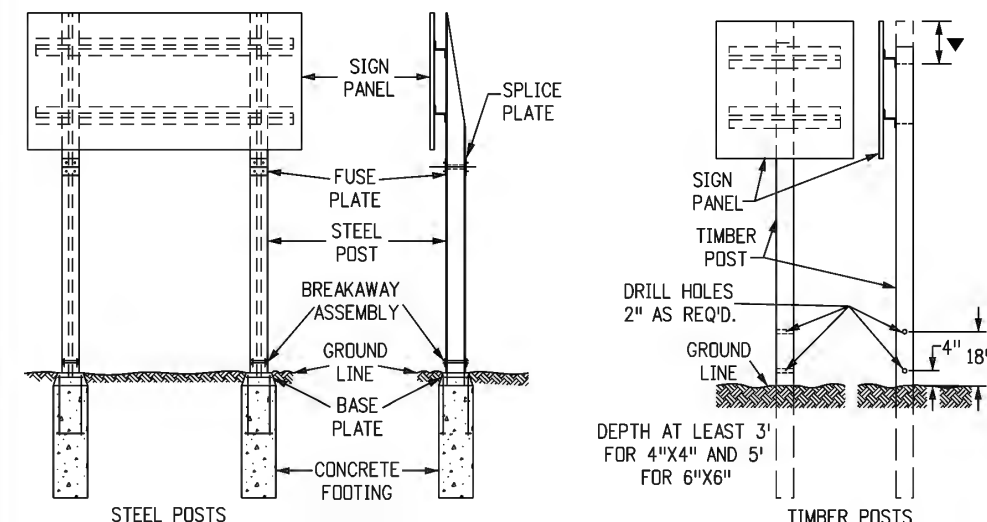
**TYPICAL ELEVATION
STEEL POST ASSEMBLY**



SECTION A-A



**TYPICAL PROJECTED VIEW
STEEL POST ASSEMBLY**



TYPICAL BREAKAWAY SIGN SUPPORT INSTALLATIONS

BOLTING PROCEDURE FOR BREAKAWAY PLATE ASSEMBLY

- ASSEMBLE THE POST TO THE STUB WITH BOLTS, WITH ONE FLAT WASHER ON THE TOP OF THE UPPER BREAKAWAY PLATE AND ONE BELOW THE LOWER BREAKAWAY PLATE, AND ONE FLAT WASHER AND A KEEPER PLATE BETWEEN THE BREAKAWAY PLATES.
- TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION WITH A 12 IN. TO 15 IN. WRENCH, TO BED THE WASHERS AND CLEAN THE BOLT THREADS. THEN LOOSEN EACH BOLT IN TURN, AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE BREAKAWAY PLATE DATA TABLES).
- BURR THREADS AT JUNCTION WITH NUT TO PREVENT NUT LOOSENING.

GENERAL NOTES

- DESIGN CONFORMS WITH AASHTO "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS".
- ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 (ASTM A709) GRADE 36 AND SECTIONS 509 AND 614 OF THE STANDARD SPECIFICATIONS.
- STEEL FUSE PLATES AND SPLICE PLATES SHALL CONFORM TO AASHTO M270 (ASTM A709) GRADE 36.
- ALL STRUCTURAL STEEL INCLUDING FUSE AND SPLICE PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION. STEEL POSTS SHALL BE STAMPED WITH THEIR SIZE.
- ALL HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM-A325. WASHERS USED IN THE BREAK-AWAY PLATE AND FUSE PLATE ASSEMBLIES SHALL BE OF SUFFICIENT STRENGTH TO PREVENT ANY DEFLECTION OR CUPPING INTO THE SLOTTED GROOVES UNDER BOLT TORQUING.
- ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153 OR ASTM-A164.
- ALL HOLES IN FUSE PLATE AND POST FLANGE ON WHICH IT MOUNTS, SHALL BE DRILLED. ALL OTHERS MAY BE DRILLED OR SUB-PUNCHED AND REAMED.
- ALL STEEL CUTS SHALL PREFERABLY BE SAW CUTS; HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. REMOVE ALL BURRS. METAL SHALL NOT PROJECT BEYOND THE PLANE OF THE PLATE FACE.
- A "KEEPER PLATE" OF 28-GAGE GALVANIZED SHEET METAL, FABRICATED TO MATCH BREAKAWAY PLATE DIMENSIONS BUT WITH HOLES RATHER THAN SLOTS, SHALL BE USED TO PREVENT BOLT LOOSENING DUE TO WIND VIBRATION.
- HIGH STRENGTH BOLTS IN THE BREAKAWAY ASSEMBLY SHALL BE TIGHTENED ONLY TO THE TORQUE SHOWN IN THE TABLE. DO NOT OVERTIGHTEN.
- TIMBER POSTS SHALL BE IN ACCORDANCE WITH SECTION 614 OF THE STANDARD SPECIFICATIONS AS TO SIZE, ALTERNATE SIZE, GRADE, SPECIES, TREATMENT, AND BREAKAWAY.
- FOR ALL BASE PLATE AND FOOTING WORK SEE STANDARD PLAN S-614-6.
- FOR ADDITIONAL INFORMATION, REFER TO "TABULATION OF SIGN AND CROSS SECTIONS FOR CLASS III SIGNS" INCLUDED IN THE PLANS.
- TIMBER POST SHALL BE FLUSH WITH TOP OF SIGN PANEL FOR DIRECT MOUNT AND 3-3/16" MINIMUM ABOVE BOLT FOR BACKING ZEE MOUNT.
- TIMBER SIGN POST MAY ONLY BE USED FOR TEMPORARY SIGNAGE DURING CONSTRUCTION. TUBULAR STEEL SHALL BE USED FOR PERMANENT INSTALLATIONS.
- IN NO CASE SHALL A BACKING ZEE BE PLACED BELOW THE FUSE PLATES.
- SIGN POST PAY LENGTH IS FROM THE UPPER BREAKAWAY PLATE TO THE TOP OF THE "COPE". THE 4-INCH "BASE POST" AND THE LOWER "BREAKAWAY PLATE" ARE PAID FOR AS PART OF THE FOOTING. THE UPPER "BREAKAWAY PLATE" AND ALL NUTS, BOLTS, WASHERS AND KEEPER PLATE FOR FASTENING THE BREAKAWAY PLATES ARE PAID FOR AS A PART OF THE POST.

BREAKAWAY PLATE DATA TABLE

DIMENSION	BOLT SIZE AND TORQUE	A	B	C	D	E	t1	WELD Z	R
POST SIZE									
W 12 X 26	3/4"Ø X 3 3/4" 46 Ft. Lb.	6 1/2"	17"	7/8"	3 1/2"	1 1/2"	1"	5/16"	1 3/32"
W 10 X 26		5 3/4"	14 7/8"	7/8"	3 1/4"	1 1/4"	1"	5/16"	1 3/32"
W 10 X 22		5 3/4"	14 5/8"	7/8"	3 1/4"	1 1/4"	1"	5/16"	1 3/32"
W 8 X 21	5/8"Ø X 3" 29 Ft. Lb.	5 1/4"	12 5/8"	7/8"	2 3/4"	1 1/4"	1"	5/16"	1 3/32"
W 8 X 18		5 1/4"	12"	3/4"	3"	1 1/8"	3/4"	1/4"	1 1/32"
W 6 X 15		6"	10"	3/4"	3 3/4"	1 1/8"	3/4"	1/4"	1 1/32"
W 6 X 12		5"	10"	3/4"	2 3/4"	1 1/8"	3/4"	1/4"	1 1/32"

Computer File Information

Creation Date: 07/04/12
Created By: SCL
Last Modification Date:
Last Modified By:
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date: Comments

Colorado Department of Transportation



2829 W. Howard Pl.
Denver, CO 80204
Phone: 303-757-9436
FAX: 303-757-9219

Traffic & Safety Engineering

MKB

BREAKAWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS

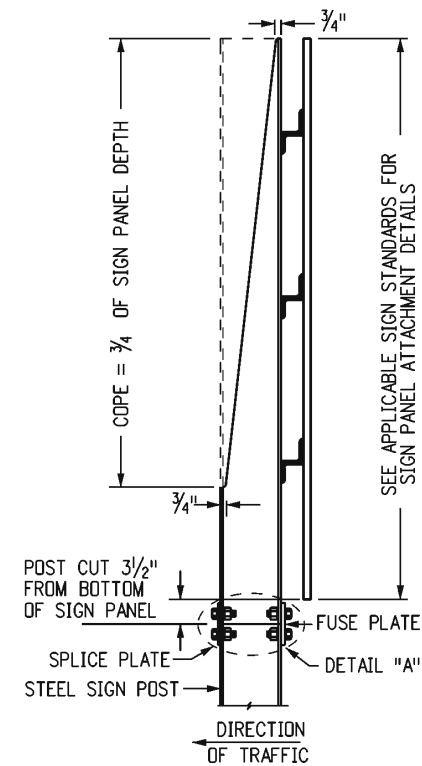
Issued By: Traffic & Safety Engineering Branch July 31, 2019

STANDARD PLAN NO.

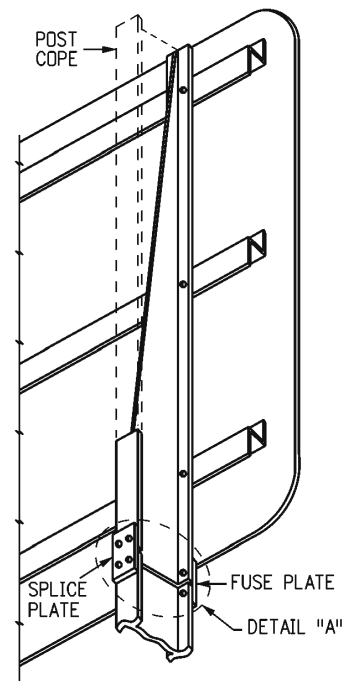
S-614-5

Standard Sheet No. 1 of 2

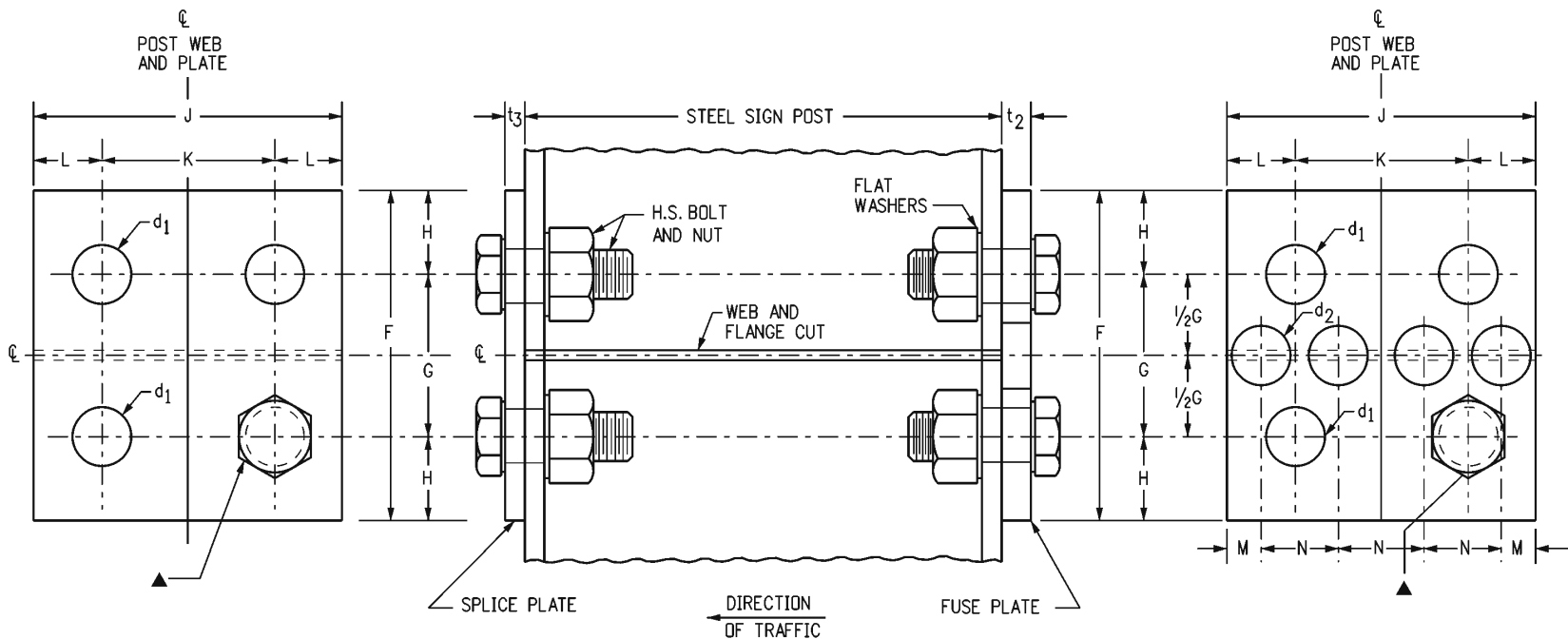
Project Sheet Number:



TYPICAL SIDE VIEW
FUSE PLATE AND POST COPE



TYPICAL PROJECTED VIEW
FUSE PLATE AND POST COPE



SPLICE PLATE DETAIL

DETAIL "A" - SIDE VIEW

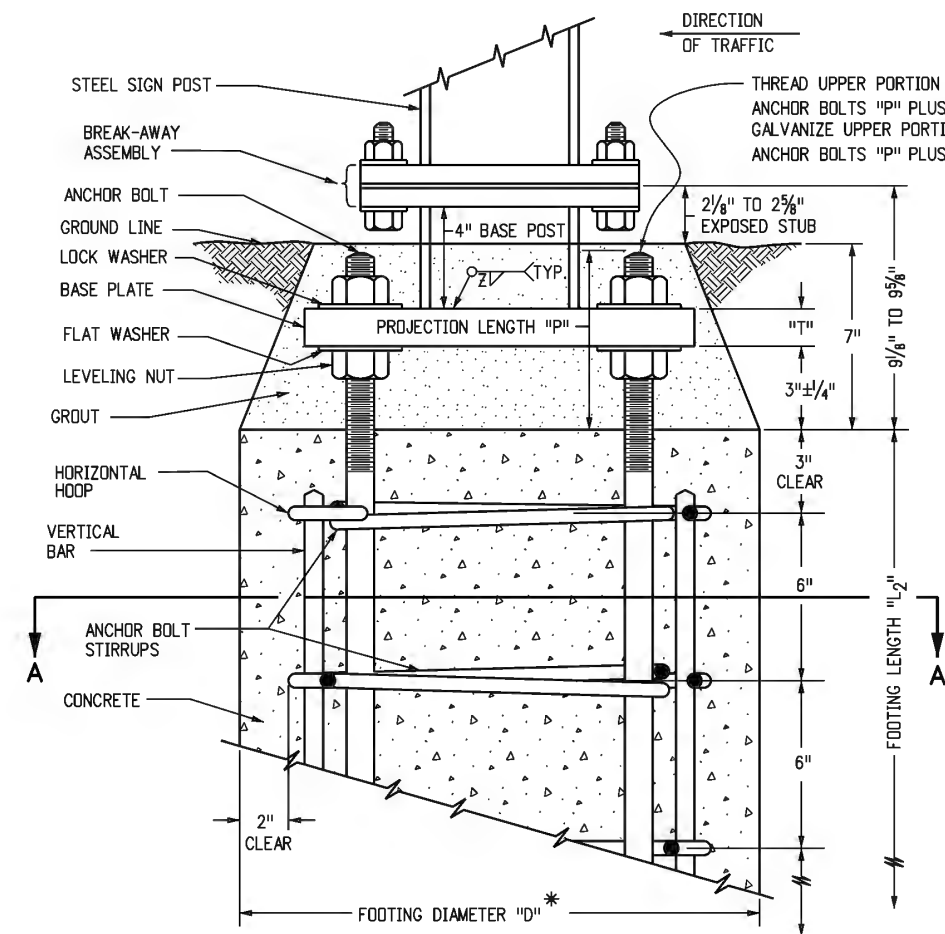
FUSE PLATE DETAIL

TYPICAL FUSE AND SPLICE PLATE HINGE DETAILS

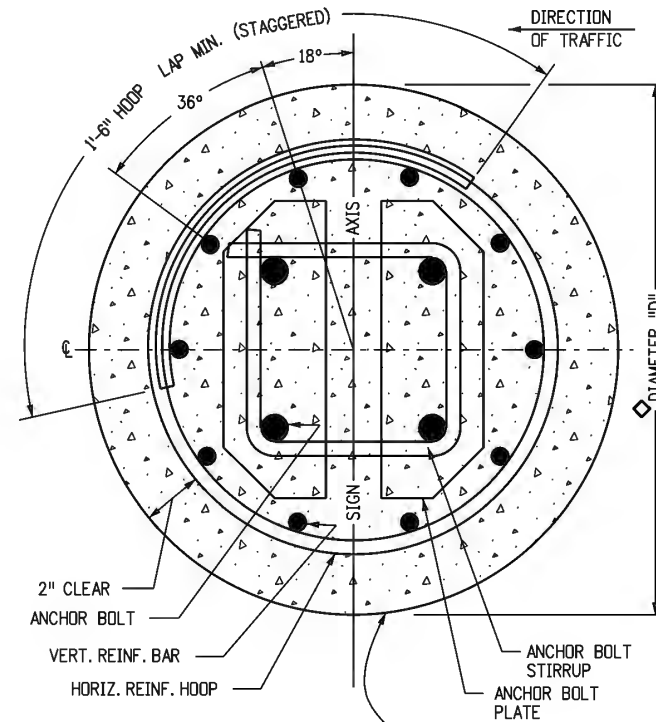
▲ HOLE DIAMETER= d1
USE HIGH STRENGTH BOLTS WITH HEX HEAD
AND HEX NUT, WITH ONE FLAT WASHER
UNDER EACH

FUSE AND SPLICE PLATE HINGE DATA TABLE														
SIZE POST	F	G	H	J	K	L	M	N	d ₁	d ₂	t ₂	t ₃	BOLT SIZE	FABRICATION NOTES
W 12 X 26	6"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	1 3/16"	1 5/8"	1 3/16"	1 5/16"	1/2"	7/16"	3/4" ØX 2 1/2"	ALL HOLES IN FUSE PLATE AND POST FLANGE HOLES ON WHICH IT MOUNTS SHALL BE DRILLED. ALL OTHERS MAY BE PUNCHED. BURR THREADS AT JUNCTION WITH NUT TO PREVENT NUT LOOSENING.
W 10 X 26	6"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	1 3/16"	1 3/8"	1 3/16"	1 1/8"	1/2"	7/16"	3/4" ØX 2 1/2"	
W 10 X 22	6"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	1 3/16"	1 3/8"	1 3/16"	1 1/8"	1/2"	3/8"	3/4" ØX 2 1/2"	
W 8 X 21	5 1/2"	2 1/2"	1 1/2"	5 1/4"	2 3/4"	1 1/4"	3/4"	1 1/4"	1 3/16"	1"	1/2"	3/8"	3/4" ØX 2 1/2"	ASTM-A441, ASTM-572 GRADE 50, OR ASTM-A588 MAY BE SUBSTITUTED FOR AASHTO M270 (ASTM A709) GRADE 36 AT THE OPTION OF THE FABRICATOR. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.
W 8 X 18	5"	2 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	3/4"	1 1/4"	1 1/16"	1 1/16"	3/8"	3/8"	5/8" ØX 2 1/2"	
W 6 X 15	5"	2 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/4"	1 1/2"	1 1/16"	1 1/4"	3/8"	1/4"	5/8" ØX 2 1/2"	
W 6 X 12	4 1/4"	2"	1 1/8"	4"	2 1/4"	7/8"	1/2"	1"	9/16"	3/4"	1/4"	1/4"	1/2" ØX 1 3/4"	

Computer File Information			<div><div></div><div></div><div></div><div></div><div></div></div>	Sheet Revisions		<div>Colorado Department of Transportation</div> <div><div></div><div>2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9436 FAX: 303-757-9219</div></div> <div>Traffic & Safety Engineering</div> <div>MKB</div>	<div>BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS</div>	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:		Comments	S-614-5				
Created By: SCL					Standard Sheet No. 2 of 2				
Last Modification Date:								Issued By: Traffic & Safety Engineering Branch July 31, 2019	Project Sheet Number:
Last Modified By:									
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English									

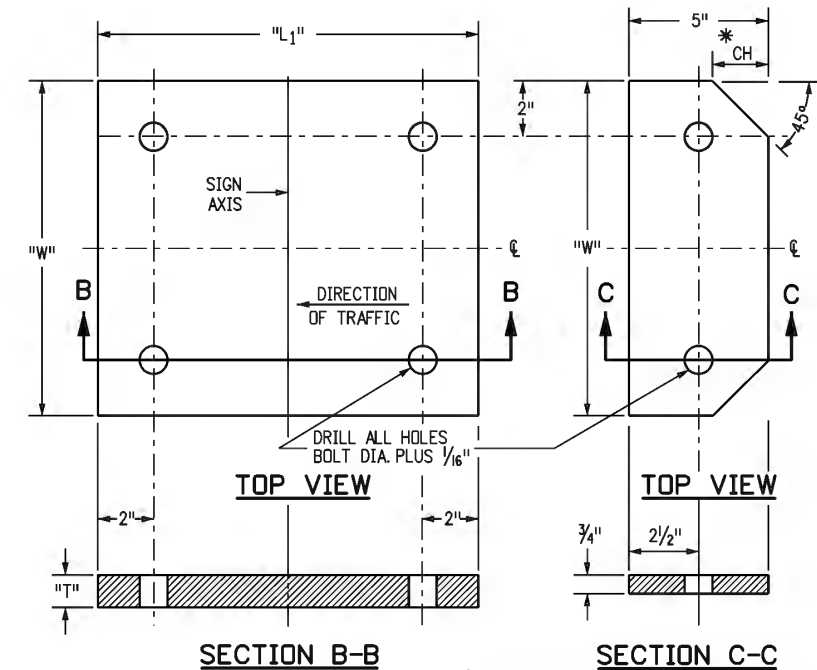


TYPICAL CONCRETE FOOTING ASSEMBLY



EXCAVATION PROCEDURE
DRILL TO O.D. OF FOOTING NEAT LINE AND TO DEPTH SHOWN, AND IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR DRILLED CAISSONS. (FOOTINGS SHALL BE CAST IN PLACE AGAINST UNDISTURBED MATERIAL.)

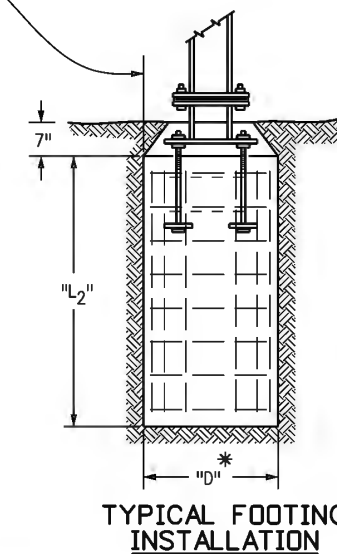
SECTION A-A



**BASE PLATE
TYPICAL DETAILS**

**BOLT PLATE
TYPICAL DETAILS**


* OUTSIDE CORNERS OF BOLT PLATES CHAMFERED AS SHOWN FOR FOOTING TYPES 1-4 ONLY. PLATES FOR TYPES 5-7 HAVE SQUARE CORNERS.

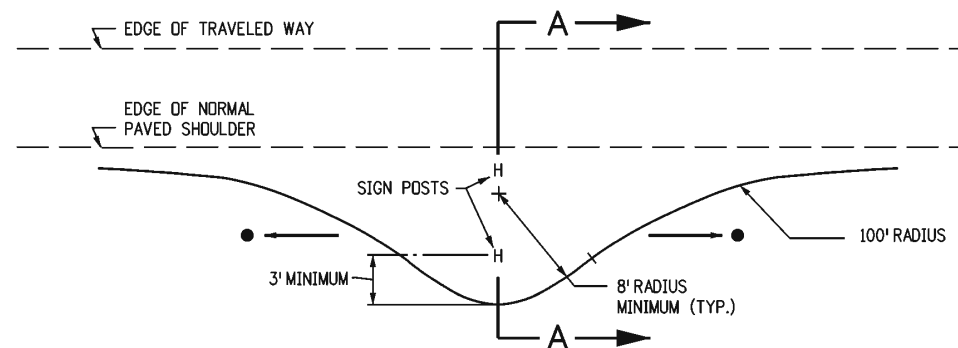


**TYPICAL FOOTING
INSTALLATION**

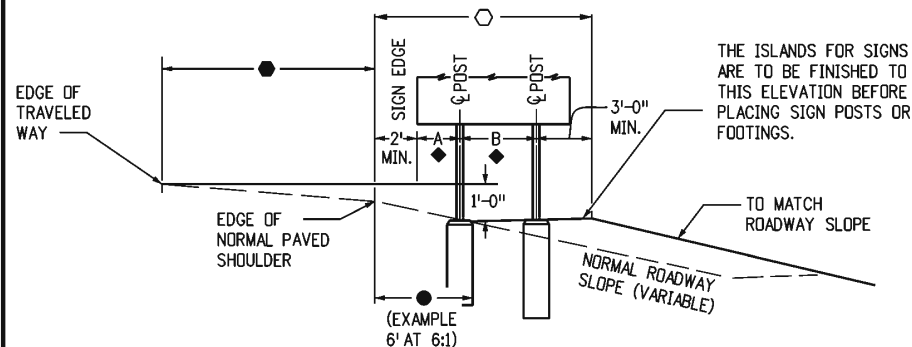
CONCRETE FOOTING TABLE													
POST BASE STRUCTURAL DATA										FOOTING STRUCTURAL DATA			
SIZE	MAXIMUM ALLOWABLE MOMENT	POST TO BASE WELD Z	BASE PLATE			ANCHOR COMPONENTS					SIZE		
			"L1"	"W"	"T"	ANCHOR BOLTS	BOLT PLATES	"CH"	STIRRUPS	"P"	TYPE	"D"	"L2"
W 12X26	46.5 KIP FT.	3/8" FILLET	20 1/4"	14"	1 3/8"	4-1 1/4"ØX2'-6"	2-5"X3/4"X14"	N/A	2-1/2"Ø	6 5/8"	7	36"	10'
W 10X26	38.9 KIP FT.	3/8" FILLET	17"	14"	1 1/4"	4-1"ØX2'-6"	2-5"X3/4"X14"	N/A	2-1/2"Ø	6 1/4"	6	30"	9'
W 10X22	32.3 KIP FT.	3/8" FILLET	16 1/4"	14"	1 1/4"	4-1"ØX2'-6"	2-5"X3/4"X14"	N/A	2-1/2"Ø	6 1/4"	5	30"	8'
W 8X21	24.4 KIP FT.	3/8" FILLET	15"	13 1/4"	1 1/8"	4-7/8"ØX2'-0"	2-5"X3/4"X13 1/4"	2-1/2"	2-1/2"Ø	6"	4	24"	7'
W 8X18	20.4 KIP FT.	3/8" FILLET	14"	13 1/4"	1 1/8"	4-7/8"ØX2'-0"	2-5"X3/4"X13 1/4"	2-1/2"	2-1/2"Ø	6"	3	24"	6'
W 6X15	13.8 KIP FT.	3/8" FILLET	14"	12 1/4"	1"	4-3/4"ØX1'-6"	2-5"X3/4"X12 1/4"	2"	2-1/2"Ø	5 3/4"	2	24"	5'
W 6X12	8.3 KIP FT.	1/4" FILLET	13"	12"	7/8"	4-3/4"ØX1'-6"	2-5"X3/4"X12"	2"	2-1/2"Ø	5 5/8"	1	24"	4'
6X6 TIMBER	5.0 KIP FT.	TIMBER POSTS SHALL BE SET IN DRILLED OR EXCAVATED HOLES—DEPTH SHALL BE 5 FT. FOR 6X6 POSTS AND 3 FT. FOR 4X4 POSTS UNLESS OTHERWISE NOTED ON THE TABULATION OF SIGNS IN THE PLANS. POSTS SHALL BE PLACED PLUMB, BACKFILLED WITH EXCAVATED MATERIALS, AND THOROUGHLY TAMPED INTO PLACE.											
4X4 TIMBER	1.4 KIP FT.												

* FOR MULTI-DIRECTIONAL BREAKAWAY ONLY: TYPE 1 THRU TYPE 6 FOOTINGS REQUIRE A 6 IN. INCREASE IN DIAMETER ("D") TO ACCOMMODATE ANCHORS SHOWN ON THE DETAILS INCLUDED IN THE PLANS. ALSO, HORIZONTAL REINFORCING HOOP DIAMETER WILL BE INCREASED TO MAINTAIN A 2 IN. CLEARANCE FROM THE FOOTING SIDES. VERTICAL BARS AND OTHER STRUCTURAL DATA REMAIN THE SAME. TYPE 7 FOOTINGS REQUIRE NO CHANGES.

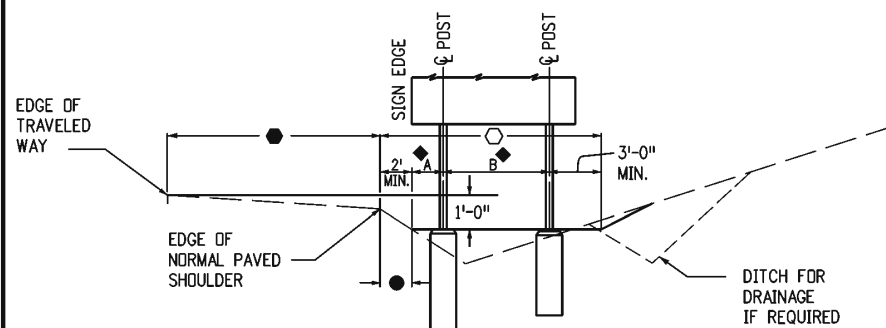
Computer File Information			Sheet Revisions		Colorado Department of Transportation	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS	STANDARD PLAN NO. S-614-6 Standard Sheet No. 1 of 2
Creation Date: 07/04/12			Date:	Comments			
Created By: Matthews					 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9436 FAX: 303-757-9219	Issued By: Traffic & Safety Engineering Branch July 31, 2019	Project Sheet Number:
Last Modification Date:							
Last Modified By:					Traffic & Safety Engineering MKB		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							



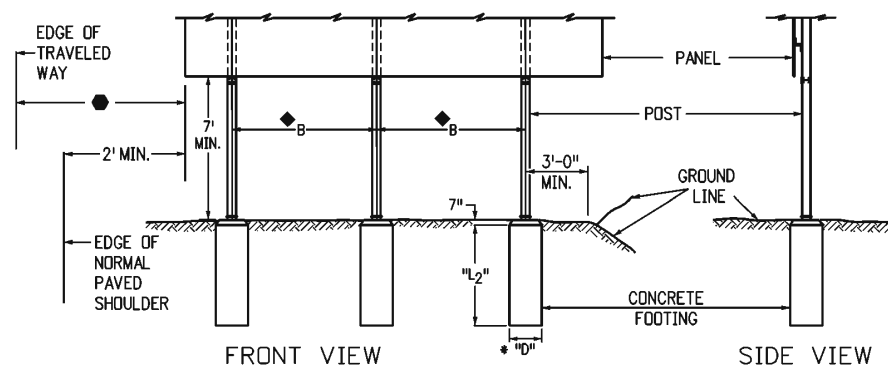
TYPICAL SIGN ISLAND PLAN



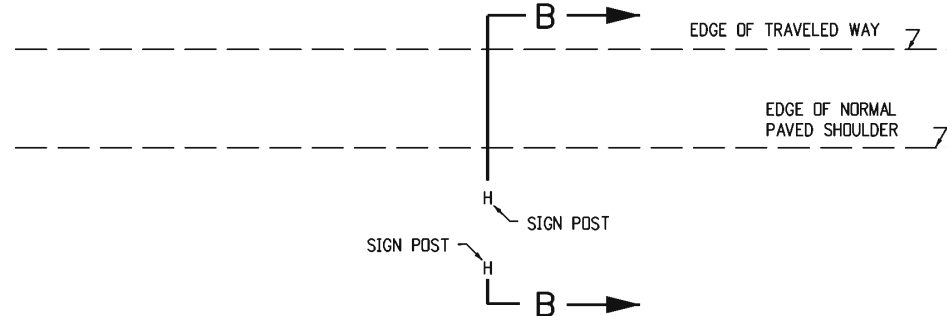
TYPICAL FILL SECTION A-A



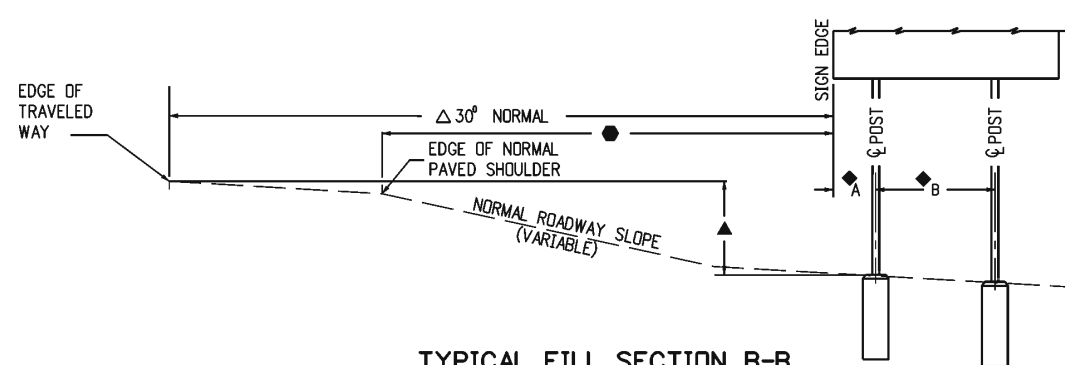
TYPICAL CUT SECTION A-A



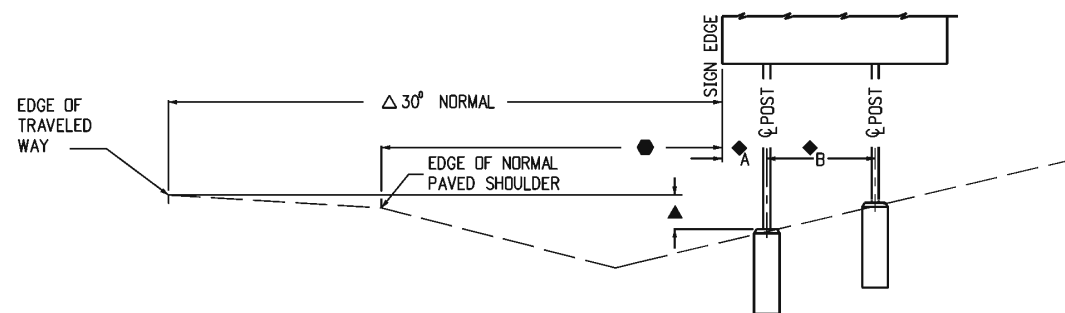
TYPICAL SIGN ISLAND ELEVATIONS



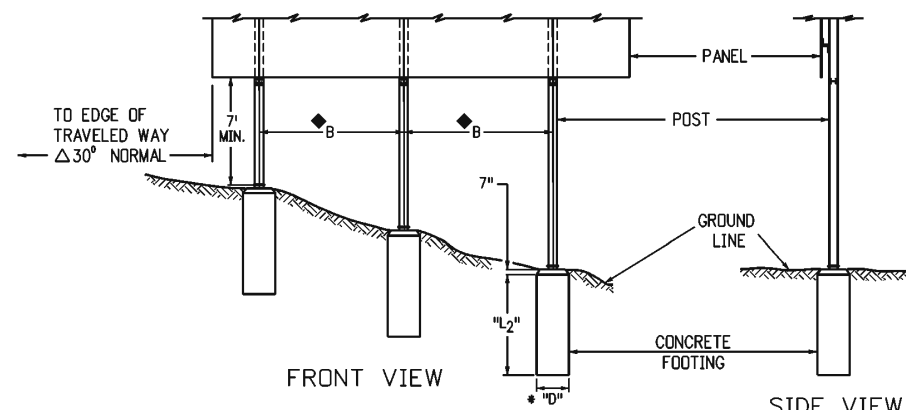
NORMAL CLEARANCE PLAN



TYPICAL FILL SECTION B-B



TYPICAL CUT SECTION B-B




TYPICAL ELEVATIONS

GENERAL NOTES

1. ALL CONCRETE IS TO BE CLASS "BZ" AIR ENTRAINED. GROUT SHALL CONFORM TO "JOINT MORTAR".
2. USE AASHTO M270 (ASTM A709) GRADE 36 STEEL FOR BASE PLATES AND BOLT PLATES. USE ASTM-A307 STEEL FOR ANCHOR BOLTS.
3. USE GRADE 60 FOR REINFORCING STEEL VERTICAL BARS, HORIZONTAL HOOPS, AND ANCHOR BOLT STIRRUPS.
4. FOR ALL STEEL WORK ABOVE THE BASE PLATE, AND FOR ANGULAR PLACEMENT OF SIGNS, SEE APPLICABLE STANDARDS INCLUDED IN THE PLANS.
5. FOR ADDITIONAL INFORMATION, REFER TO "TABULATION OF SIGNS" AND "CROSS SECTIONS FOR CLASS III SIGNS" INCLUDED IN THE PLANS.
6. ◆ FOR "A" AND "B" DIMENSIONS. SEE COLORADO STANDARD PLAN S-614-4.
7. ● THE SIGN ISLAND SIDE SLOPE PARALLEL TO THE ROADWAY SHALL BE 6:1 OR FLATTER. SEE TYPICAL SECTIONS.
8. ○ THE SIGN ISLAND SIDE SLOPE PARALLEL TO THE ROADWAY SHALL BE 6:1 OR FLATTER. SEE TYPICAL SECTIONS.
9. ● VARIABLE DIMENSIONS. SEE CROSS SECTIONS.
10. ▲ VARIABLE FOOTING ELEVATIONS. SEE CROSS SECTIONS FOR PLACEMENT.
11. △ THE LATERAL PLACEMENT MAY BE REDUCED TO A MINIMUM OF 2 FT. FROM THE EDGE OF NORMAL PAVED SHOULDER TO FIT FIELD CONDITIONS WHEN 30 FT. FROM THE EDGE OF THE TRAVELED WAY IS NOT FEASIBLE. SEE THE CROSS SECTIONS AND/OR TYPICAL GROUND SIGN PLACEMENT STANDARD.
12. EMBANKMENT FOR SIGN ISLANDS IS TO BE COMPACTED AS REQUIRED UNDER ITEM 203 OF THE STANDARD SPECIFICATIONS.
13. FOR ANGULAR PLACEMENT OF SIGNS, SEE COLORADO STANDARD PLAN S-614-1.
14. THE 4-INCH "BASE POST" AND LOWER "BREAK-AWAY PLATE" SHALL BE PAID FOR AS PART OF THE FOOTING.

DETAILS OF SIGN PLACEMENT

Computer File Information		0000	Sheet Revisions		<div>Colorado Department of Transportation</div> <div><div>2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9436 FAX: 303-757-9219</div></div> <div>Traffic & Safety Engineering</div> <div>MKB</div>	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS		STANDARD PLAN NO.	
Creation Date: 07/04/12			Date:	Comments		S-614-6			
Created By: Matthews						Standard Sheet No. 2 of 2			
Last Modification Date: 09/16/13									
Last Modified By: Crayton									
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English						Issued By: Traffic & Safety Engineering Branch July 31, 2019			
				Project Sheet Number:					

CHECKED BY: MT
DRAWN BY: AR

GENERAL NOTES

1. THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.

2. DRAWINGS ARE INTENDED TO BE PRINTED ON 24" X 36" PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS. VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.

3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

5. SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.

6. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.

7. IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, NORRIS DESIGN RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT, THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.

8. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.

9. CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.

12. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.

13. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.

15. THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.

16. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
17. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.

18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.

20. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.

21. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.

22. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.

23. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.

24. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.

25. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.

26. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.

27. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.

28. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.

29. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS OCCUR.

GENERAL CDOT NOTES FOR CONTRACTOR

1. ALL MATERIALS, EQUIPMENT, INSTALLATION AND CONSTRUCTION WITHIN THE STATE HIGHWAY ROW SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING STANDARD REFERENCES AS APPLICABLE:

A. CDOT MATERIALS MANUAL

B. CDOT CONSTRUCTION MANUAL

C. CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION

D. CDOT STANDARD SPECIAL PROVISIONS, AS APPLICABLE TO PROJECT

E. CDOT STANDARD PLANS (M&S STANDARDS)

F. FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS AND THE COLORADO SUPPLEMENT THERETO

G. AASHTO ROADSIDE DESIGN GUIDE

H. FHWA ROUNDABOUT DESIGN GUIDE

I. CDOT GUIDE SIGNING POLICIES & PROCEDURES
2. CONSTRUCTION WITHIN HIGHWAY ROW AND ALL HIGHWAY IMPROVEMENTS SHALL COMPLY WITH THE CDOT SPECIAL USE PERMIT. A COPY OF THE PERMIT SHALL BE AVAILABLE ON THE CONSTRUCTION SITE AT ALL TIMES.

3. THE CONTRACTOR SHALL PROVIDE ON-SITE SANITARY FACILITIES UNLESS FACILITIES ARE ALREADY PROVIDED THAT ARE REASONABLY CLOSE TO THE CONSTRUCTION SITE.

4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AFFECTED PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION AT NO ADDITIONAL COST.

5. THE CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES WITHIN THE BOUNDARY OF THE PUBLIC RIGHT OF WAY.

1. CONTRACTOR SHALL DESIGNATE A CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS) TO MANAGE CONSTRUCTION SIGNAGE AND SAFETY OF OPERATIONS DURING ACTIVITIES WITHIN CDOT RIGHT OF WAY. THE TCS SHALL BE AVAILABLE WHENEVER WORK IS IN PROGRESS. CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AT THE END OF THE DAY'S CONSTRUCTION ACTIVITIES, ON WEEKENDS AND HOLIDAYS, UNLESS OTHERWISE DIRECTED BY CDOT.

6. NO PERSONAL VEHICLES ARE ALLOWED TO PARK IN CDOT RIGHT OF WAY.

7. CONTRACTOR SHALL NOT DEVIATE FROM THE PROJECT PLANS, SPECIFICATIONS, OR STANDARDS UNLESS WRITTEN AUTHORIZATION OF THE CHANGE IS PROVIDED BY THE TOWN'S ENGINEER OF RECORD. INDIVIDUAL CDOT STAFF ARE NOT AUTHORIZED TO DIRECT ANY CHANGES IN DESIGN OR CONSTRUCTION.
- PLEASE NOTE THAT SOME OF THE REFERENCE MATERIALS LISTED ABOVE MAY BE AVAILABLE ONLINE OR PURCHASED FROM:

COLORADO DEPARTMENT OF TRANSPORTATION

BID PLANS ROOM

4201 EAST ARKANSAS AVENUE

DENVER, CO 80222-3400

(303) 757-9313

LANDSCAPE NOTES

1. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.

2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES.

3. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.

4. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.

5. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.

6. REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT.

7. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.

8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.

9. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENEED TO A DEPTH OF 8" - 12" AND AMENDED PER SPECIFICATIONS.

10. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION AS NOTED IN THE TECHNICAL SPECIFICATIONS.

11. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

12. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 7' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 7' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
13. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.

14. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 3 YEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 3 YEARS FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.

15. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.

16. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.

17. SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY BEND-A-BOARD. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3" OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE PLANS.

18. ALL SHRUB BEDS ARE TO BE MULCHED AS CALLED OUT IN PLANS OVER A GEOTEXTILE WEED CONTROL FABRIC AS SPECIFIED IN THE DETAILS AND TECHNICAL SPECIFICATIONS OR MATERIALS SCHEDULE. ALL GROUND COVER AND PERENNIAL FLOWER BEDS SHALL BE MULCHED WITH LANDSCAPE MULCH AS SPECIFIED IN THE DETAILS AND TECHNICAL SPECIFICATIONS OR MATERIALS SCHEDULE. NO WEED CONTROL FABRIC IS REQUIRED IN GROUNDCOVER OR PERENNIAL AREAS.

19. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.

20. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDED AND RESTORED WITH SPECIFIED SEED MIX.

21. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.

22. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.

23. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.

24. SOFT SURFACE TRAILS NEXT TO MANICURED TURF OR SHRUB BEDS SHALL BE CONTAINED WITH EDGER SPECIFIED IN PLANS OR AN APPROVED EQUAL.

25. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.

26. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE TOWN AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.

27. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL IMPROVEMENTS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT.

LAYOUT NOTES

1. WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS.

2. SHOULD SITE CONDITIONS BE DIFFERENT THAN WHAT IS INDICATED ON THE DRAWINGS CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION.

3. CURVED WALKS AND CURB EDGES ARE INTENDED TO BE CONSTRUCTED WITH SMOOTH FLOWING CURVES. ANYTHING OTHER THAN SMOOTH FLOWING CURVES WILL BE REJECTED.

4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.

5. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

6. THE CONTRACTOR SHALL INSTALL SLEEVEING FOR IRRIGATION IMPROVEMENTS PRIOR TO INSTALLING CONCRETE FLATWORK. REFER TO IRRIGATION PLANS.

7. LAYOUT WALKS, SCORE JOINTS AND PAVING PATTERNS AS CLOSELY AS POSSIBLE TO PLANS, DETAILS, AND SPECIFICATIONS. DO NOT DEVIATE FROM PLANS UNLESS SPECIFIC APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE.

8. ALL WORK SHALL TAKE PLACE WITHIN EXISTING MEDIANS AND ROUNDABOUT AREAS FROM BACK OF CURB IN UNLESS OTHERWISE SPECIFIED ON LANDSCAPE PLANS BU LIMIT OF WORK LINE. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE LANDSCAPE ARCHITECT PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK. SEE TECHNICAL SPECIFICATIONS.

9. CONTRACTOR IS RESPONSIBLE FOR SUPERVISING ALL SAFETY SURFACING AND PAVEMENT DURING THE CURING PROCESS.

NORRIS DESIGN

Planning | Landscape Architecture | Branding

409 Main Street

Suite 207

P.O. Box 2320

Frisco, CO 80443

P 970.485.4478

www.norris-design.com

FRISCO MEDIANS AND ROUNDABOUTS

PROJECT NUMBER: 0350-01-2009

FRISCO, COLORADO

CONSTRUCTION BID SET

OWNER:

TOWN OF FRISCO

1 EAST MAIN STREET

FRISCO, CO 80443

970.668.5276

NOT FOR
CONSTRUCTION

DATE:

02/24/23: CDOT PRMT


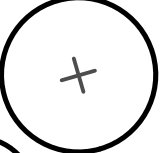











03/08/23: BID SET

SHEET TITLE:

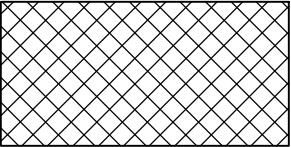
LANDSCAPE
NOTES

L-001

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
	PO TE	24	POPULUS TREMULOIDES	QUAKING ASPEN	B & B	2.5" CAL.
EVERGREEN TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
	PI PU	3	PICEA PUNGENS	COLORADO SPRUCE	B & B	8' HT.
	PI AR	8	PINUS ARISTATA	BRISTLECONE PINE	B & B	6' HT.
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
	PR VI	11	PRUNUS VIRGINIANA MELANOCARPA	NATIVE CHOKEBERRY	B & B	6' CLUMP
DECIDUOUS SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
	AM AL	4	AMELANCHIER ALNIFOLIA	SERVICEBERRY	CONT.	#5
	PE AT	41	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	CONT.	#5
	PH MO	35	PHYSOCARPUS MONOGYNUS	MOUNTAIN NINEBARK	CONT.	#5
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
	DE TU	363	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	CONT.	#1
	FE EB	299	FESTUCA GLAUCA 'ELIJAH BLUE'	BLUE FESCUE	CONT.	#1
PERENNIALS	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
	AC MI	100	ACHILLEA MILLEFOLIUM	COMMON YARROW	CONT.	#1
	GA AR	226	GAILLARDIA ARISTATA	NATIVE BLANKET FLOWER	CONT.	#1
	NE WL	190	NEPETA X 'WALKER'S LOW'	WALKER'S LOW CATMINT	CONT.	#1
	TH MO	154	THERMOPSIS MONTANA	MOUNTAIN GOLDENBANNER	CONT.	#1

WILDFLOWER MIX

COMMON NAME	
AVSEEDS: WESTERN WILDFLOWER SEED MIX (OR APPROVED EQUAL) https://avseeds.com/product/western-wildflower-seed-mix/	
CONTAINS: CORNFLOWER SIBERIAN WALLFLOWER PLAINS COREOPSIS CALIFORNIA POPPY BLANKETFLOWER INDIAN BLANKET GLOBE GILIA BABY'S BREATH CANDYTUFT SCARLET FLAX LEMON MINT CORN POPPY ROCKY MOUNTAIN PENSTEMON PURPLE CONEFLOWER SHOWY GOLDEYE MAXIMILLIAN SUNFLOWER RUSSELL LUPINE COMMON YARROW LACY PHACELIA PRAIRIE CONEFLOWER	 TOTAL AREA 1,100 sf CENTAUREA CYANUS CHERIANTHUS ALLIONII COREOPSIS TINCTORIA ESCHSCHOLZIA CALIFORNICA GAILLARDIA ARISTATA GAILLARDIA PULCHELLA GILIA CAPITATA GYPSOPHILA ELEGANS IBERIS SEMPERVIRENS LINUM GRANDIFLORUM MONARDA CITRIODORA PAPAVER RHOEAS PENSTEMON STRICTUS ECHINACEA PURPUREA HELIOMERIS MULTIFLORA HELIANTHUS MAXIMILIANI LUPINUS POLYPHYLLUS ACHILLEA MILLEFOLIUM PHACELIA TANACETIFOLIA RATIBIDA COLUMNIFERA
NOTES: 1. 4 LBS PLS / ACRE	

MATERIALS SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	CONTACT	PRODUCT NAME	SIZE / DIMENSIONS	COLOR/FINISH	NOTES
M-101	STANDARD CONCRETE PAVING	READY MIXED CONCRETE	N/A	N/A	REFER TO PLANS FOR LAYOUT AND DIMENSIONS	STANDARD GRAY BROOM FINISH ALL SLABS	REFER TO DETAIL 2 / L-506. BROOM FINISH SHALL BE PARALLEL WITH SLOPE TO ENSURE PROPER DRAINAGE
M-102	ENHANCED CONCRETE	READY MIXED CONCRETE	N/A	GRAND ASHLAR STAMP, FM-3675 MATCHING TOUCH-UP WHEEL: FM-6550	REFER TO PLANS FOR LAYOUT AND DIMENSIONS	DAVIS COLOR COBBLESTONE 860 2.5 LBS PER 1 CU FT. REFER TO STAMP PRODUCT, STAMP PATTERN SHALL BE SEAMLESS	REFER TO DETAILS 1-2 / L-506. STAMP PATTERN AND CONCRETE PAVING. CONTRACTOR TO CONTACT TOWN FOR STAMP. INSTALL STAMP PATTERN PER MANUFACTURER RECOMMENDATIONS. APPLY DAVID COLOR MIX WITH DAVIS COLOR RECOMMENDED SEAL PER MANUFACTURER SPECIFICATIONS.
M-103	MOUNTAIN CONCRETE	READY MIXED CONCRETE	N/A	N/A	REFER TO PLANS FOR LAYOUT AND DIMENSIONS	DAVIS COLOR COBBLESTONE 860 2.5 LBS PER 1 CU FT. REFER TO STAMP PRODUCT, STAMP PATTERN SHALL BE SEAMLESSSMOOTH FLOAT FINISH WITH NO EXPOSED AGGREGATE OR VOIDS GREATER THAN 1/8"	REFER TO PLANS AND DETAILS FOR INSTALLATION.
M-104	ROCK MULCH	PIONEER LANDSCAPE CENTERS	CONTACT: 866.600.0652 www.pioneersand.com	DECORATIVE LANDSCAPE ROCK	1 1/2"	COPPER MOUNTAIN	MINIMUM 3" DEPTH MINIMUM. INSTALL PER SPECIFICATIONS.
M-105	BOULDERS	SILOAM STONE, INC. (OR APPROVED EQUAL)	CONTACT: 719.275.4275	CINNAMON SHADOW QUARRY BOULDERS	60% TYPE B; 2'-4' DIAMETER 40% TYPE C; 4'-6' DIAMETER	CINNAMON SHADOW	REFER TO DETAILS 1-2 SHEET L-502, CONTRACTOR TO COORDINATE LOCATION OF BOULDERS ON SITE WITH THE LANDSCAPE ARCHITECT. LANDSCAPE BOULDER SHALL NOT BE PLACED WITHIN TRAFFIC LATERAL SETBACKS AS SHOWN ON PLANS.
M-106	WOOD MULCH	PIONEER LANDSCAPE CENTERS (OR APPROVED EQUAL)	CONTACT: 303.279.4748 www.pioneerco.com	CHERRY BROWN MULCH	N/A	CHERRY BROWN	MINIMUM 3" DEPTH MINIMUM. INSTALL PER SPECIFICATIONS.

FRISCO MEDIANS AND ROUNDABOUTS
PROJECT NUMBER: 0350-01-2009
FRISCO, COLORADO
CONSTRUCTION BID SET

OWNER:
TOWN OF FRISCO
1 EAST MAIN STREET
FRISCO, CO 80443
970.668.5276

NOT FOR
CONSTRUCTION

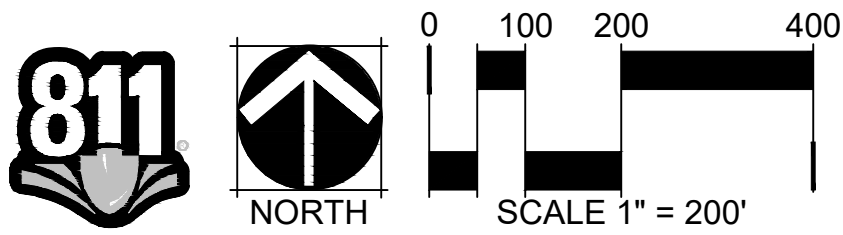
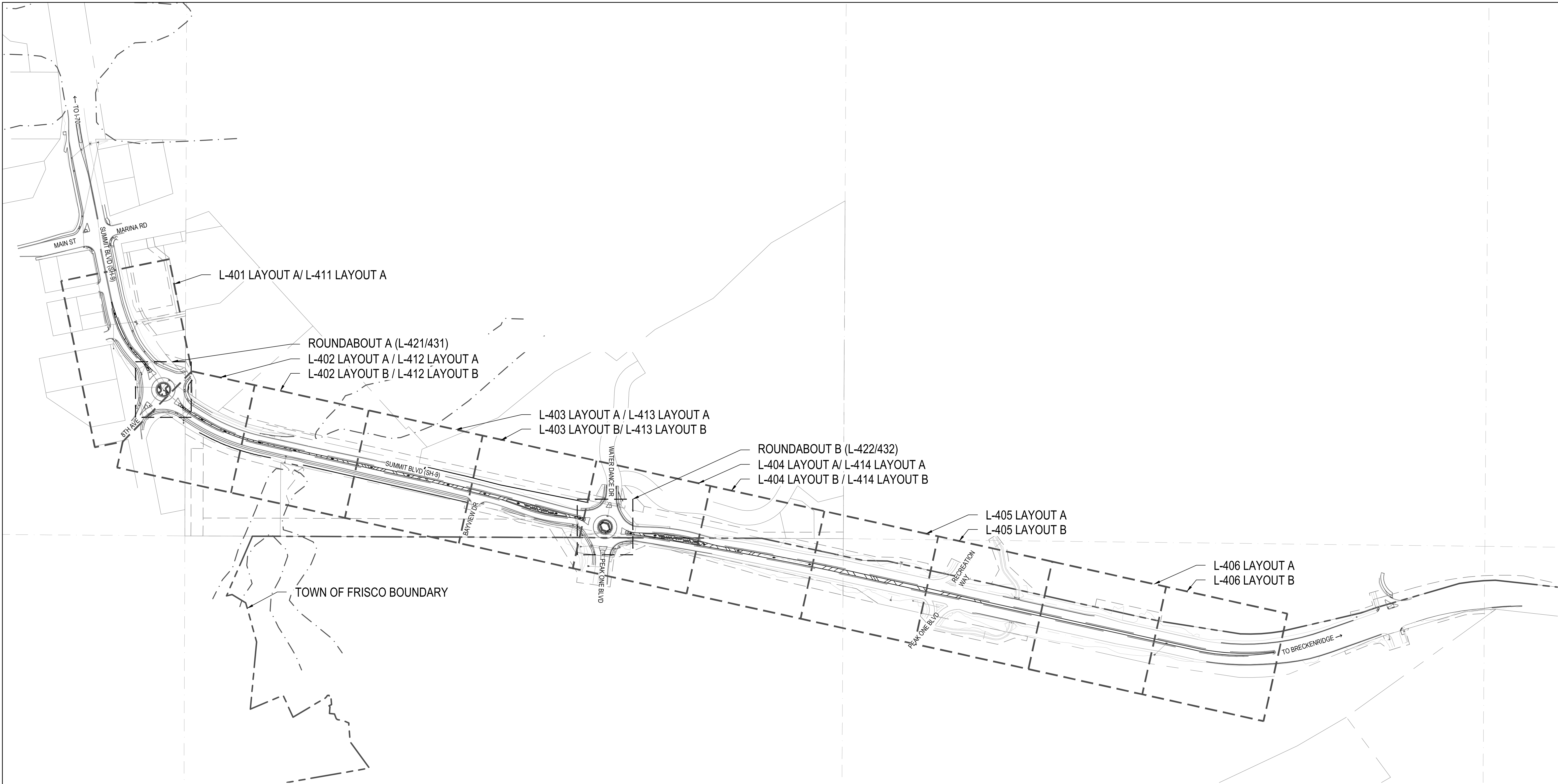
DATE:

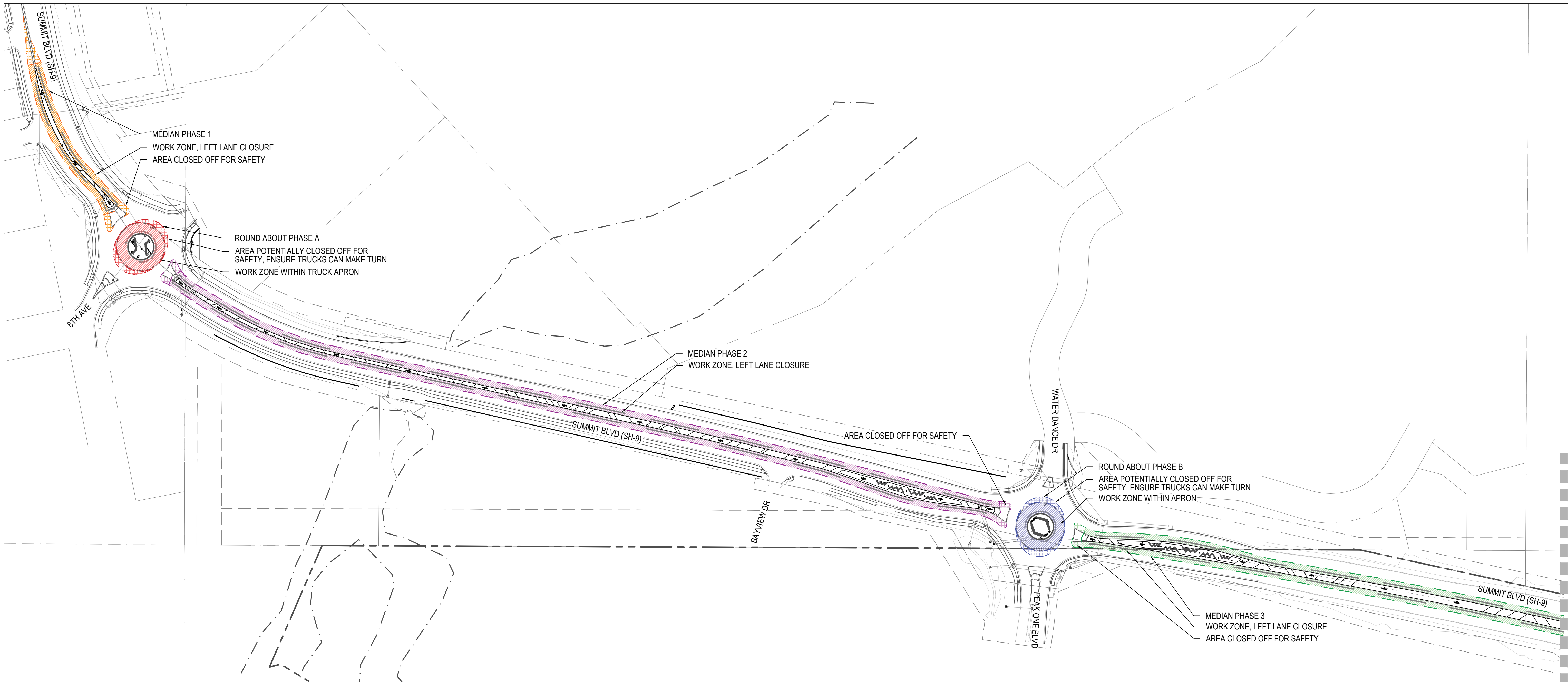
02/24/23: CDOT.PRMT
03/08/23: BID SET

SHEET TITLE:

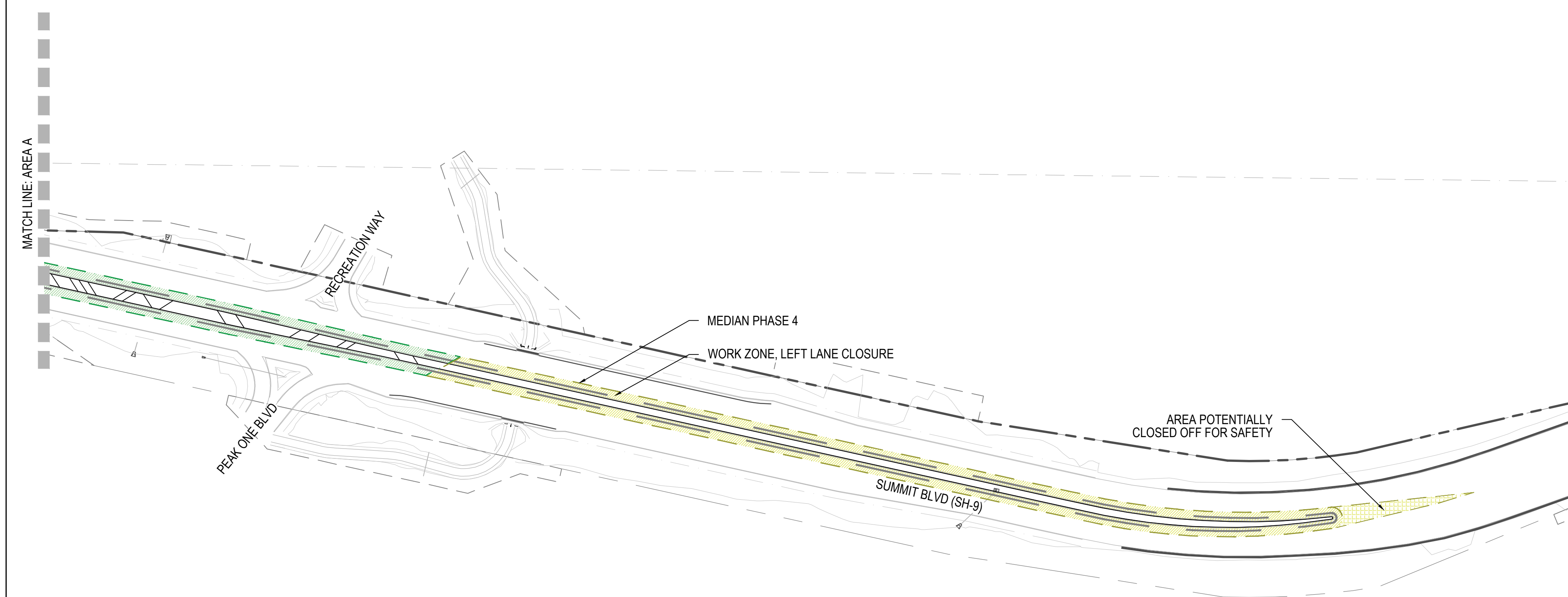
OVERALL
PLAN

L-101





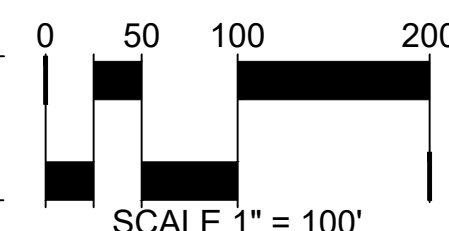
LAYOUT AREA A



LAYOUT AREA B

PHASE NOTES

- PROPOSED PHASES MAY BE COMPLETED IN ANY ORDER. ORDERING SHALL PROMOTE EFFICIENT PROJECT COMPLETION AND LIMIT TRAFFIC INTERRUPTIONS. WORK SHALL BE CONTAINED TO ONE SPECIFIC ZONE AT A TIME.
- PHASES ARE DESIGNED TO PROVIDE MANAGEABLE TRAFFIC CONTROL SEGMENTS.
- CONTRACTOR SHALL PROVIDE TWO METHODS OF HANDLING TRAFFIC (MHT) PLANS TO SHOW THE FOLLOWING SCENARIOS:
 - MEDIANS:
 - WORK ZONE; SHALL CONSIST OF EACH LEFT, INSIDE LANE AND THE MEDIAN TRAFFIC; MAINTAIN 1 LANE OF THROUGH TRAFFIC IN EACH RIGHT, OUTSIDE LANE.
 - ROUNDABOUT:
 - WORK ZONE; SHALL BE WITHIN THE EXISTING TRUCK APRON
 - TRAFFIC; MAINTAIN TWO LANES OF TRAFFIC ALONG SH-9 (SUMMIT BLVD) TO THE GREATEST SAFE EXTENT POSSIBLE. ONE LANE OF CIRCULATION MUST BE MAINTAINED. ENSURE THAT TRUCKS CAN NAVIGATE THE ROUNDABOUT.
 - PROPOSED PHASE SECTIONS
 - MEDIAN PHASE 1; MAIN ST TO 8TH AVE
 - MEDIAN PHASE 2; 8TH AVE TO PEAK ONE BLVD/ WATER DANCE DR
 - MEDIAN PHASE 3; PEAK ONE BLVD/ WATER DANCE DR TO RECREATION WAY
 - MEDIAN PHASE 4; RECREATION WAY TO END OF MEDIAN
 - ROUNDABOUT A; 8TH AVE
 - ROUNDABOUT B; PEAK ONE BLVD/ WATER DANCE DR
 - CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS FOR CDOT SPECIAL USE PERMIT. THE OWNER (TOWN OF FRISCO) WILL OBTAIN THE PERMIT.
 - TWO MHT SKETCHES BY TRAFFIC CONTROL SPECIALISTS
 - MEDIAN WORK AND CLOSURE OF INSIDE LANE IN BOTH DIRECTIONS
 - ROUNDABOUTS SHOWING CLOSURE OF TRUCK APRON (AND POSSIBLY INSIDE CIRCULATING LANE IF THEY NEED TO DO SO)
 - PROJECT SCHEDULE BY PHASE
 - CERTIFICATES OF INSURANCE





ROUND ABOUT A: FROM THE SOUTHEAST (NORTH BOUND)

1 ROUNDABOUT A: SCHEMATIC MODEL DESIGN

SCALE: NTS

NOTES:
GRAPHIC ILLUSTRATIVES PROVIDED TO CONVEY DESIGN INTENT ONLY. REFER TO PLANS FOR
CONSTRUCTION INFORMATION AND DETAILS.



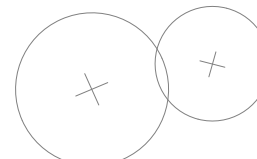
ROUND ABOUT B: FROM THE SOUTHEAST (NORTH BOUND)

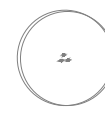
2 ROUNDABOUT B: SCHEMATIC MODEL DESIGN

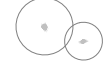
SCALE: NTS





LEGEND


- 


EVERGREEN TREE
- 


DECIDUOUS TREE
- 


DECIDUOUS SHRUB
- 

PERENNIAL
- 


NATIVE GRASS
- 


LANDSCAPE BOULDER
(SEE DETAIL 1 - 2, SHEET L-502)
- 


POLE LIGHT TO MATCH MAIN STREET
- 


BURIED SPLICE / PULL BOX, INSTALL PER
CDOT STANDARD S-613-1 SHEET 4
- 


WATER PROOF GFCI OUTLETS, 4 OUTLETS
MINIMUM, COORDINATE MINIMUM
REQUIREMENT WITH OWNER

- 


STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- 


ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- 


MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- 


LANDSCAPE MULCH (MATERIAL M-106, SHEET L-002)
- 


LANDSCAPE ROCK (MATERIAL M-104, SHEET L-002)


- 


MATCH LINE
- 

LIMIT OF WORK
- 

ENLARGEMENTS
- 

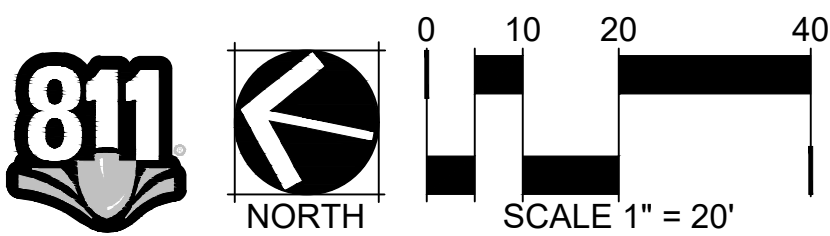
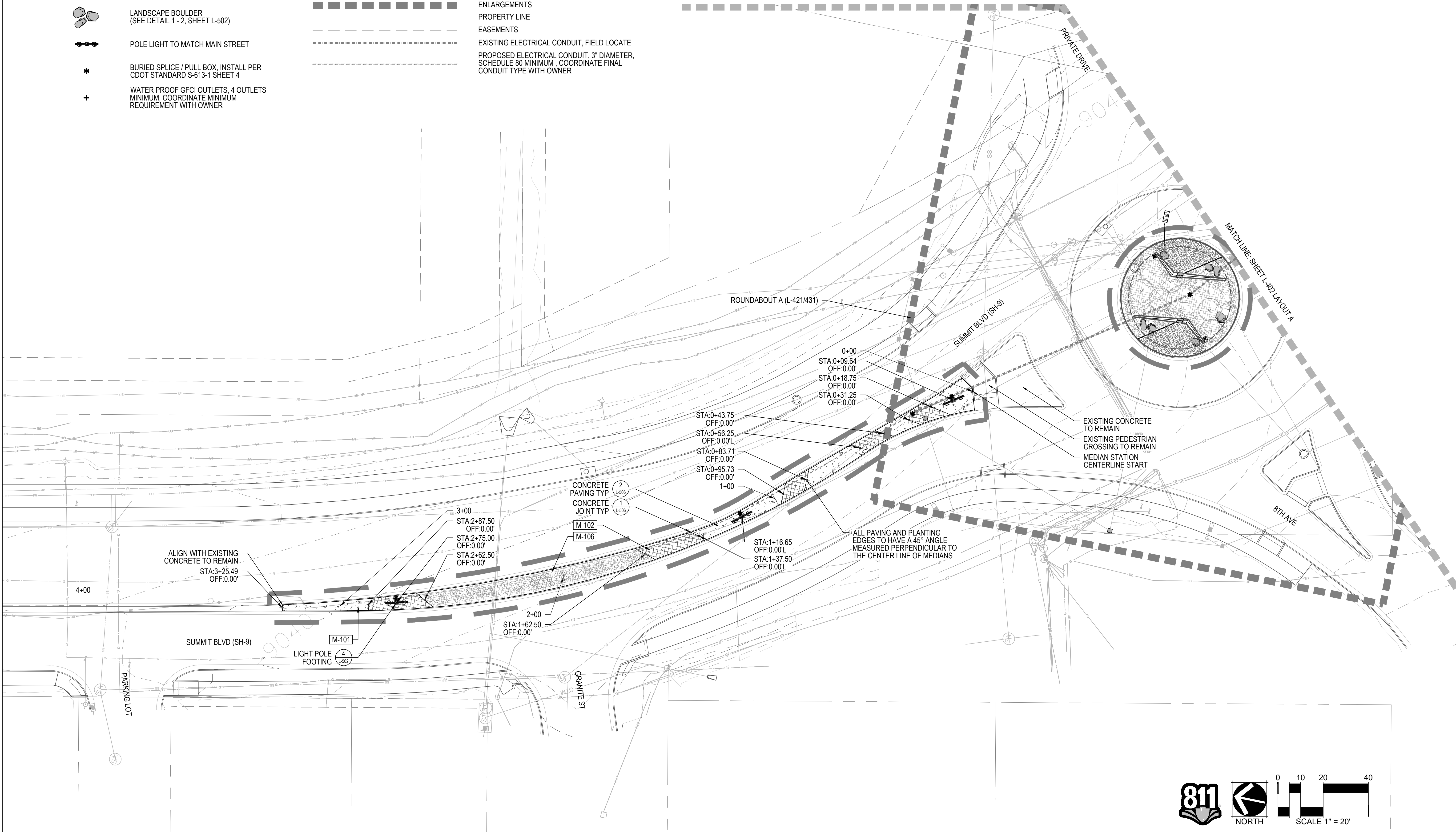
PROPERTY LINE
- 

EASEMENTS
- 

EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- 

PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER,
SCHEDULE 80 MINIMUM, COORDINATE FINAL
CONDUIT TYPE WITH OWNER

- NOTES:
1. ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 2. CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 3. ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY. CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 4. ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 5. SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 6. ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 7. NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.

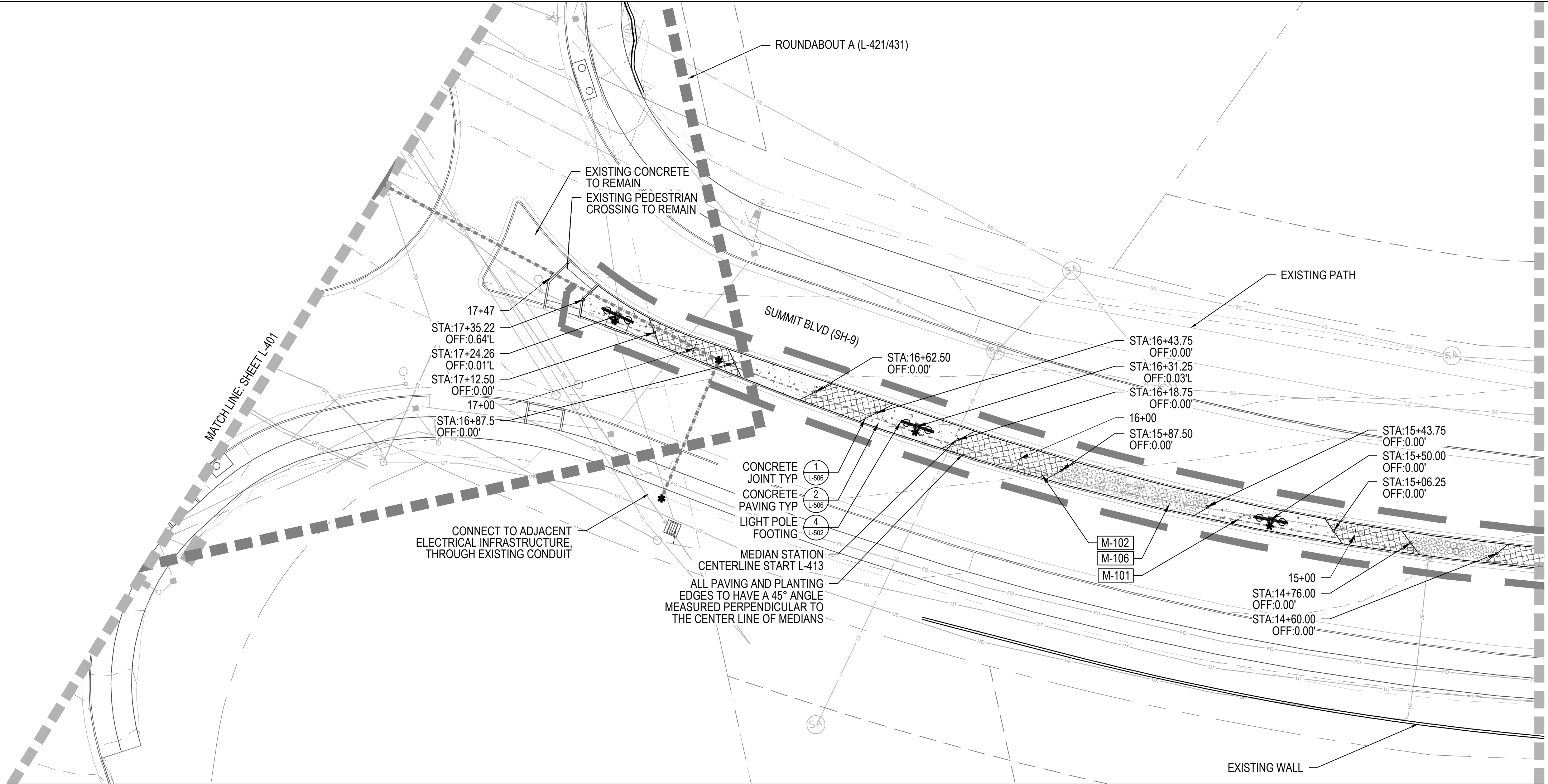
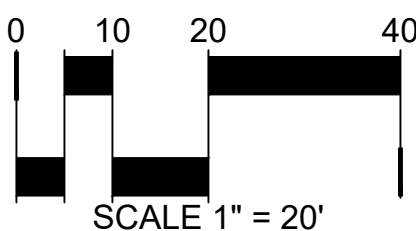
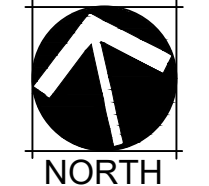


LEGEND

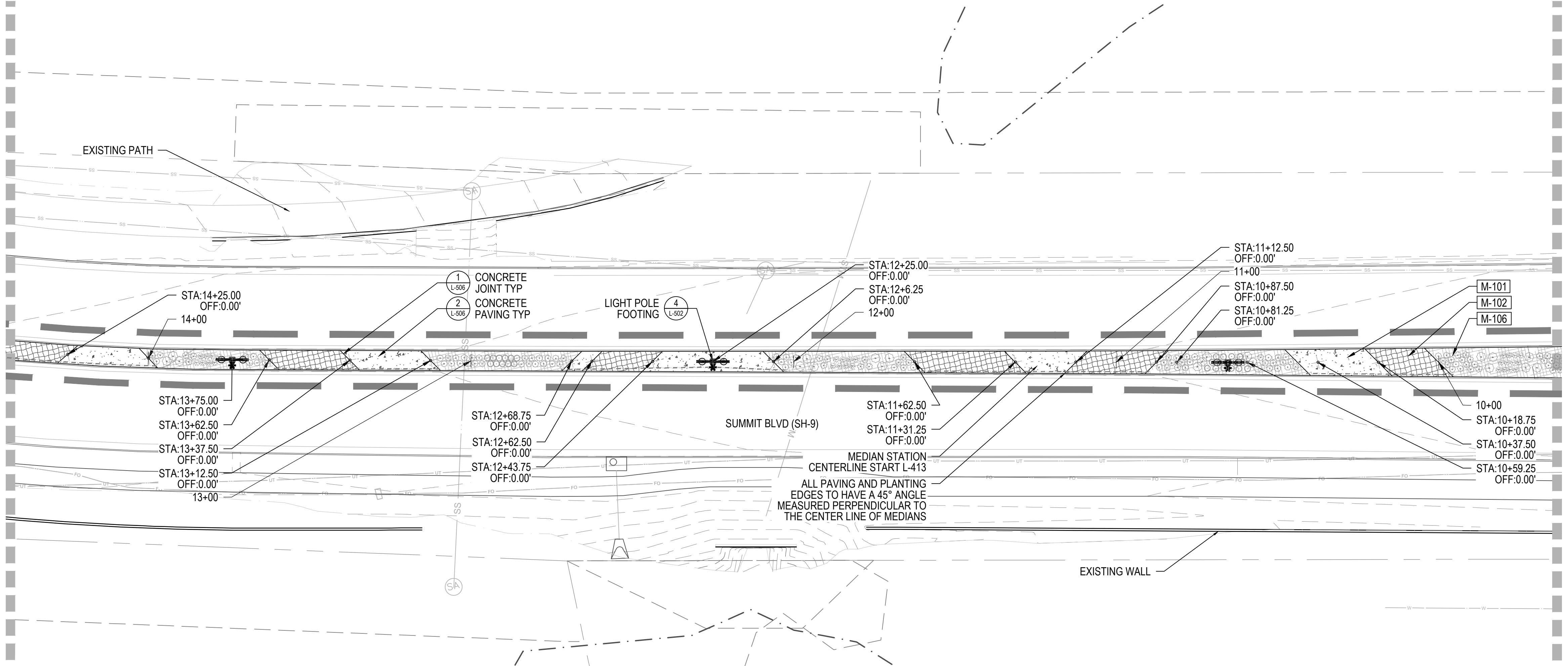
- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- BURIED SPLICE / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
- WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)

- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS
- EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

- NOTES:**
- ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 - CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 - ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 - ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 - SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 - ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 - NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.



LAYOUT AREA A



LAYOUT AREA B



B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

NOT FOR
CONSTRUCTION

DATE:

02/24/23: CDOT PRMT
03/08/23: BID SET

SHEET TITLE:

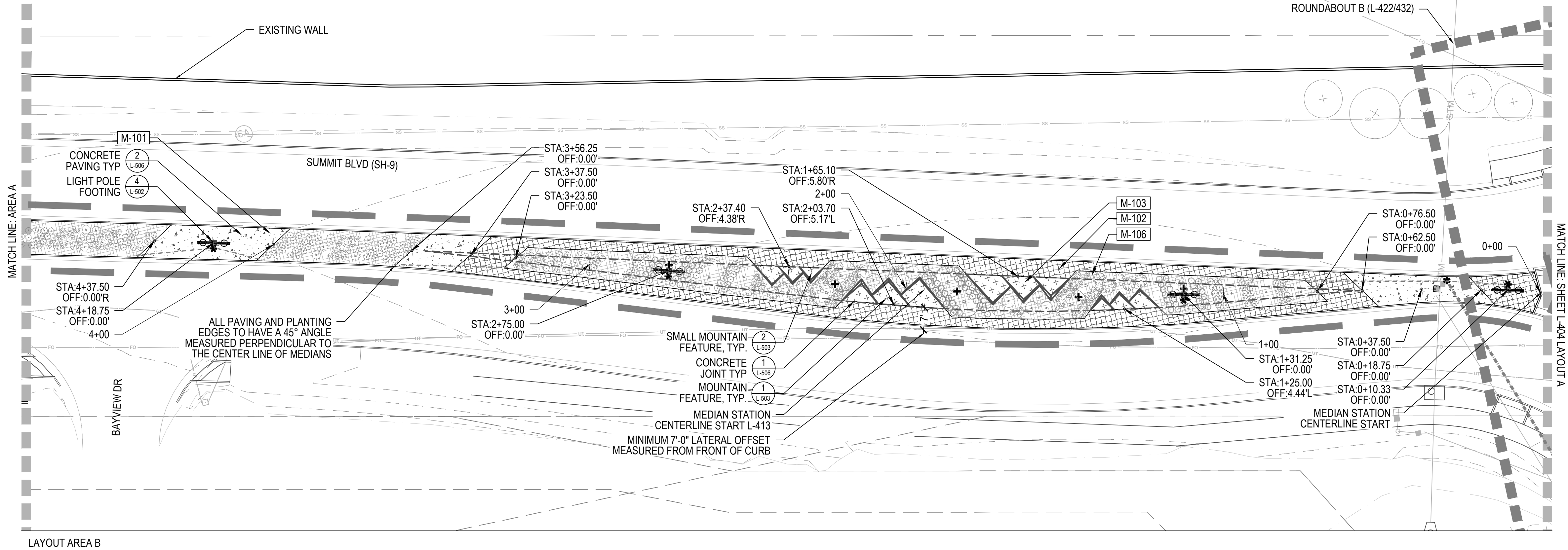
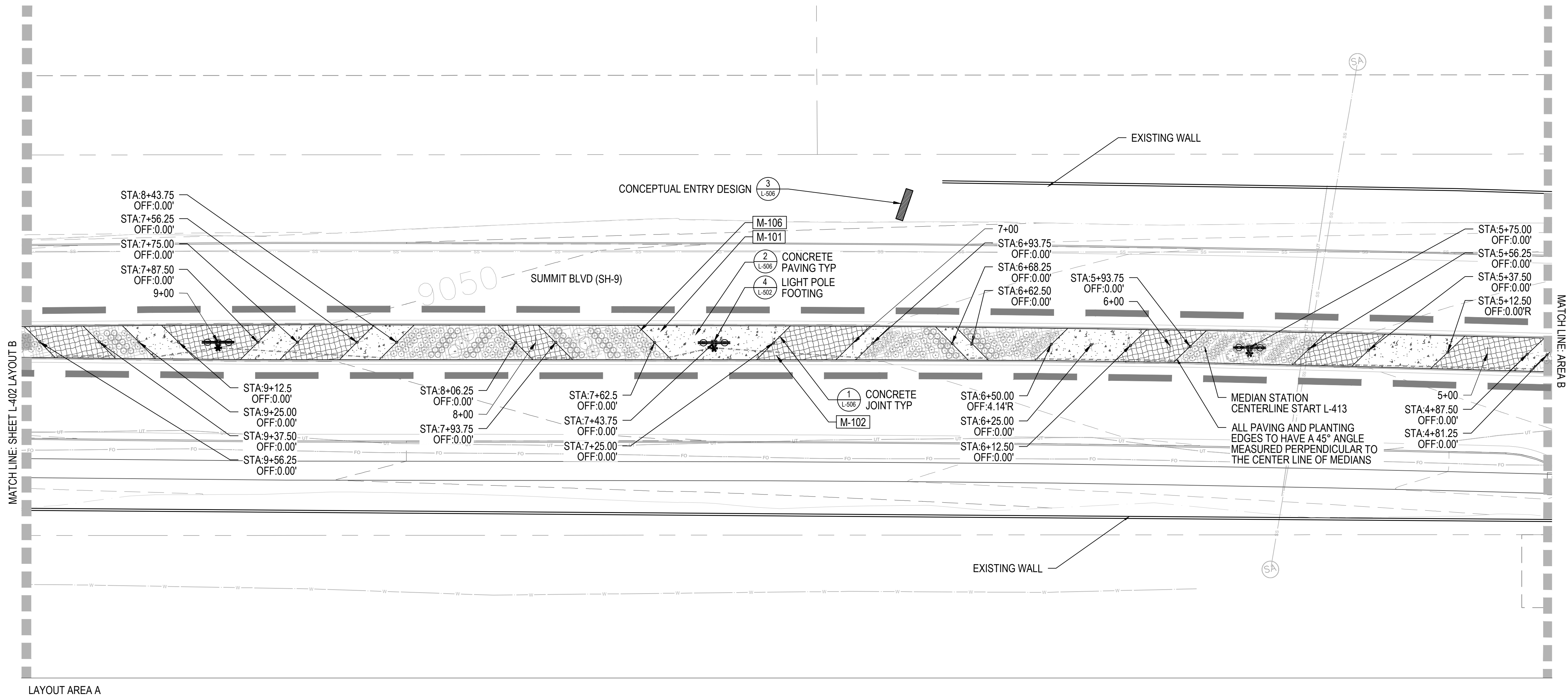
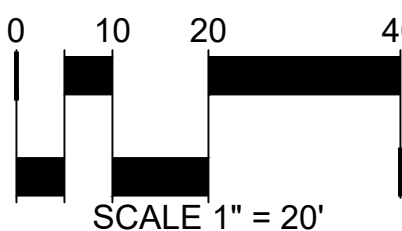
MEDIAN LAYOUT
PLAN

L-403

LEGEND

- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- BURIED SPLICE / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
- WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)
- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS
- EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

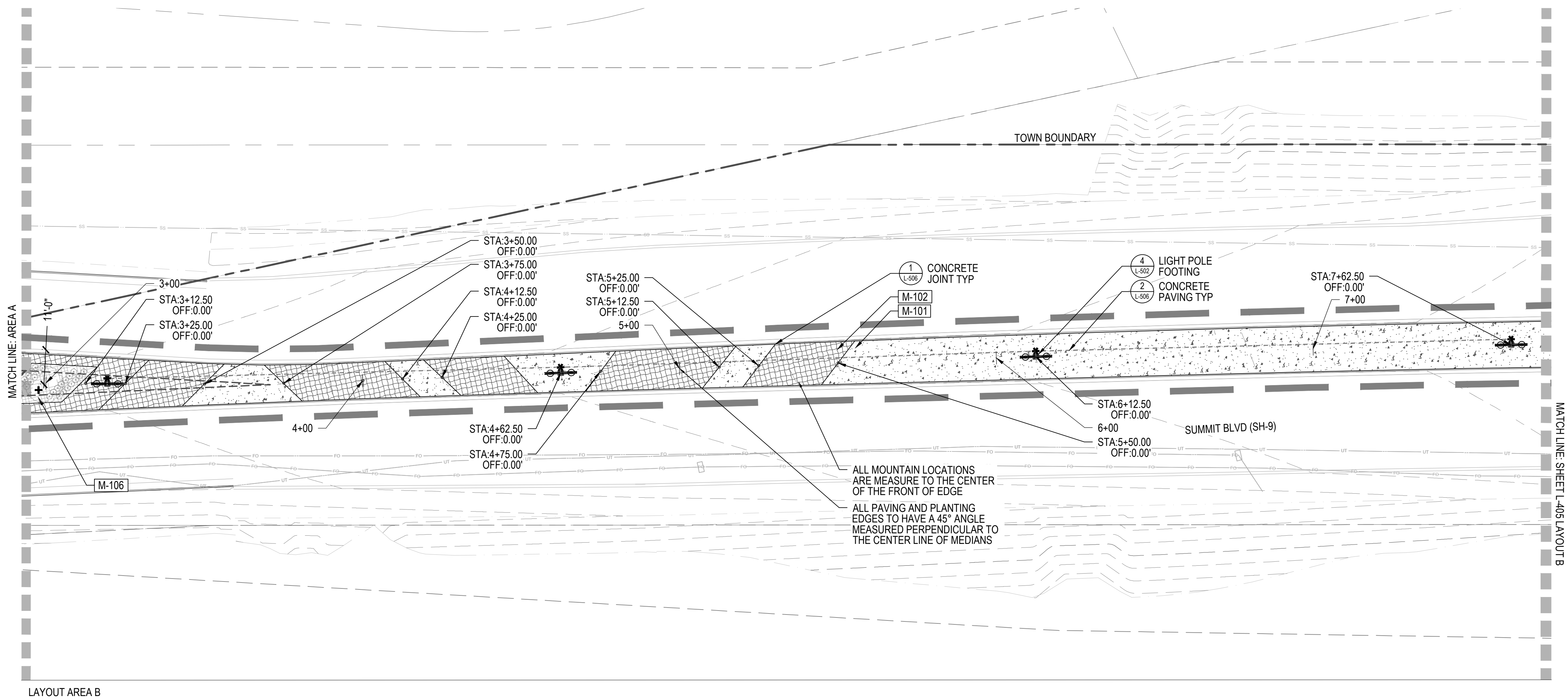
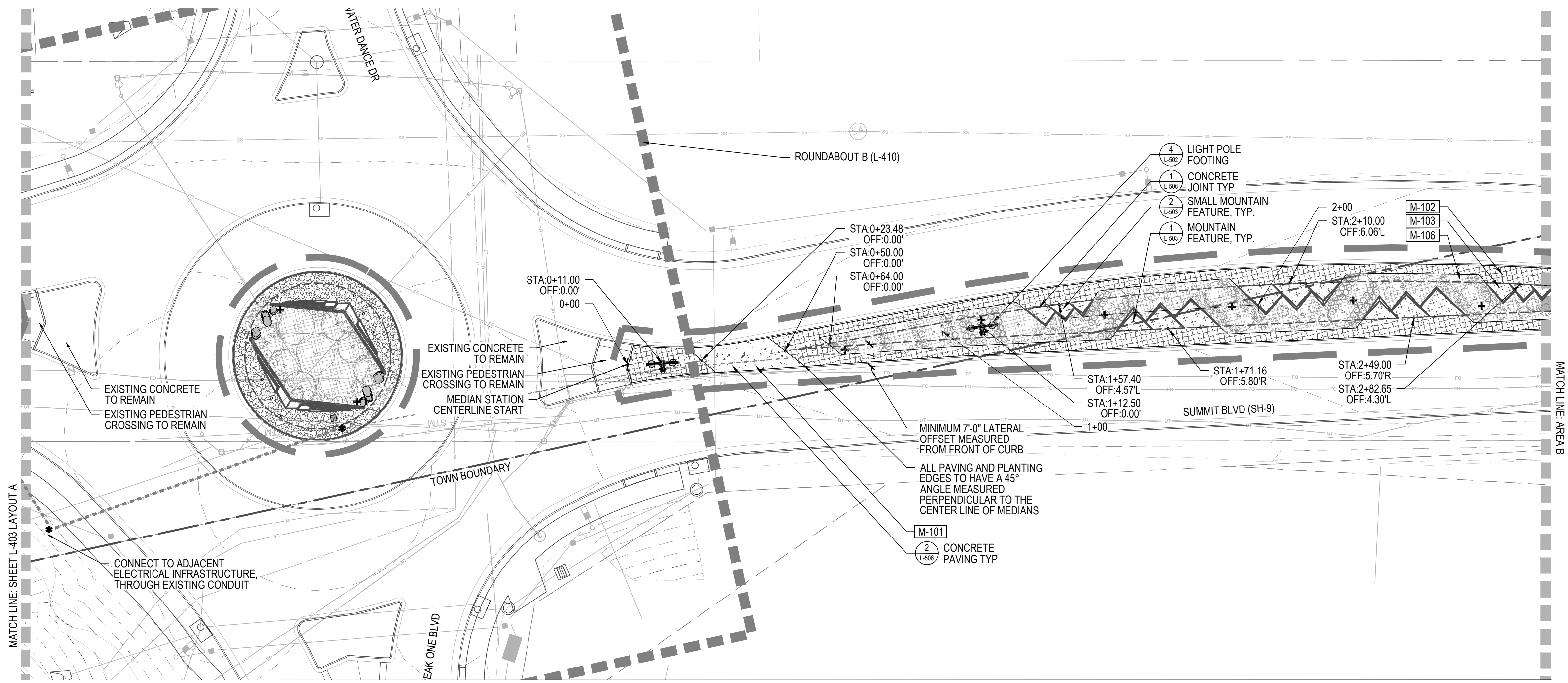
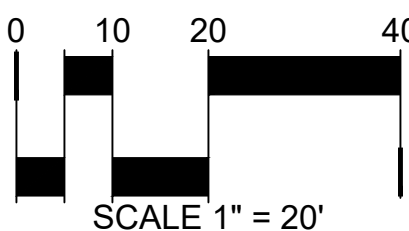
- NOTES:
- ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 - CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 - ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 - ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 - SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 - ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 - NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.



LEGEND

- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- BURIED SPlice / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
- WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)
- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS
- EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

- NOTES:**
- ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 - CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 - ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 - ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 - SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 - ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 - NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.





B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

**NOT FOR
CONSTRUCTION**

DATE:

02/24/23: CDOT PRMT
03/08/23: BID SET

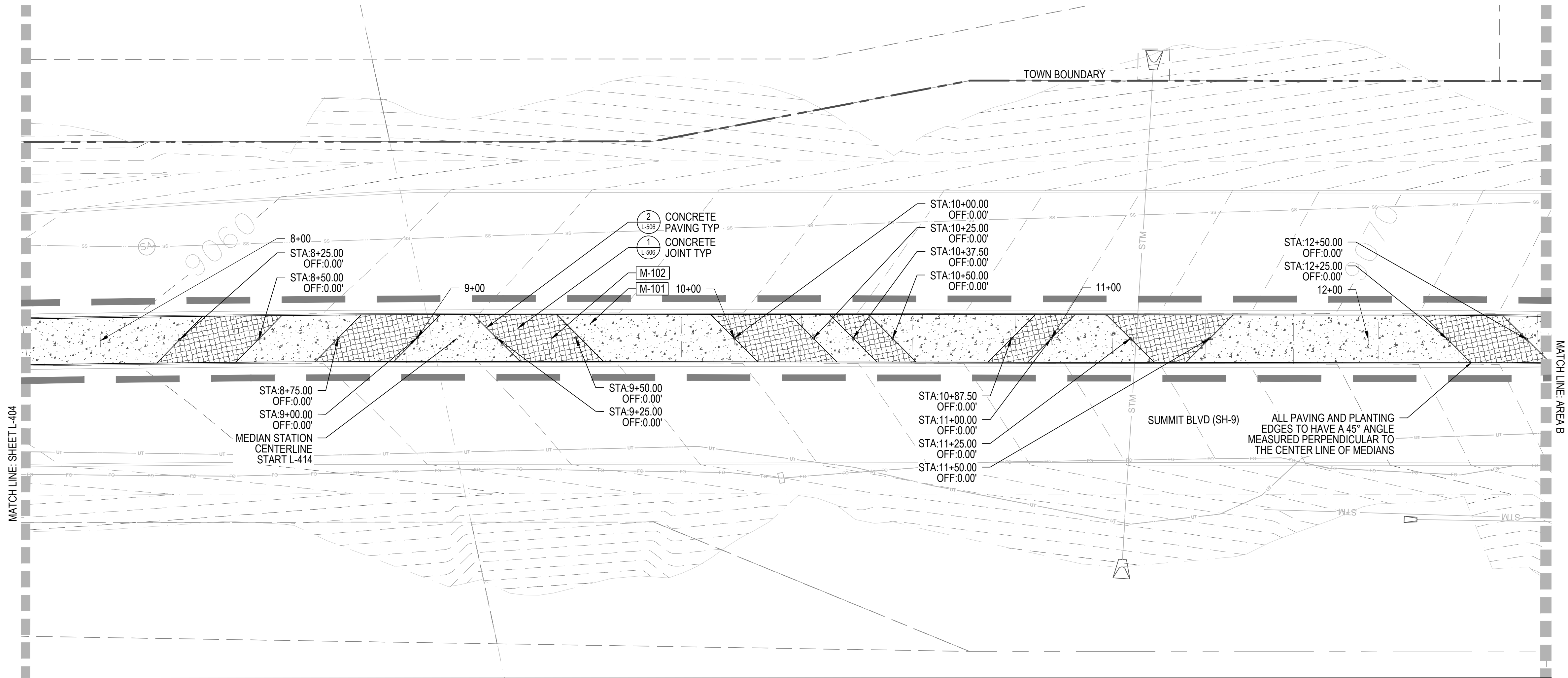
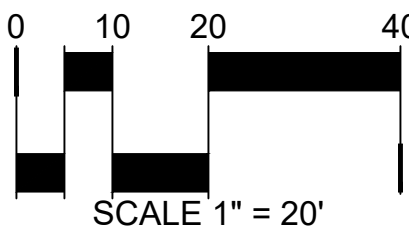
SHEET TITLE:
MEDIAN LAYOUT
PLAN

L-405

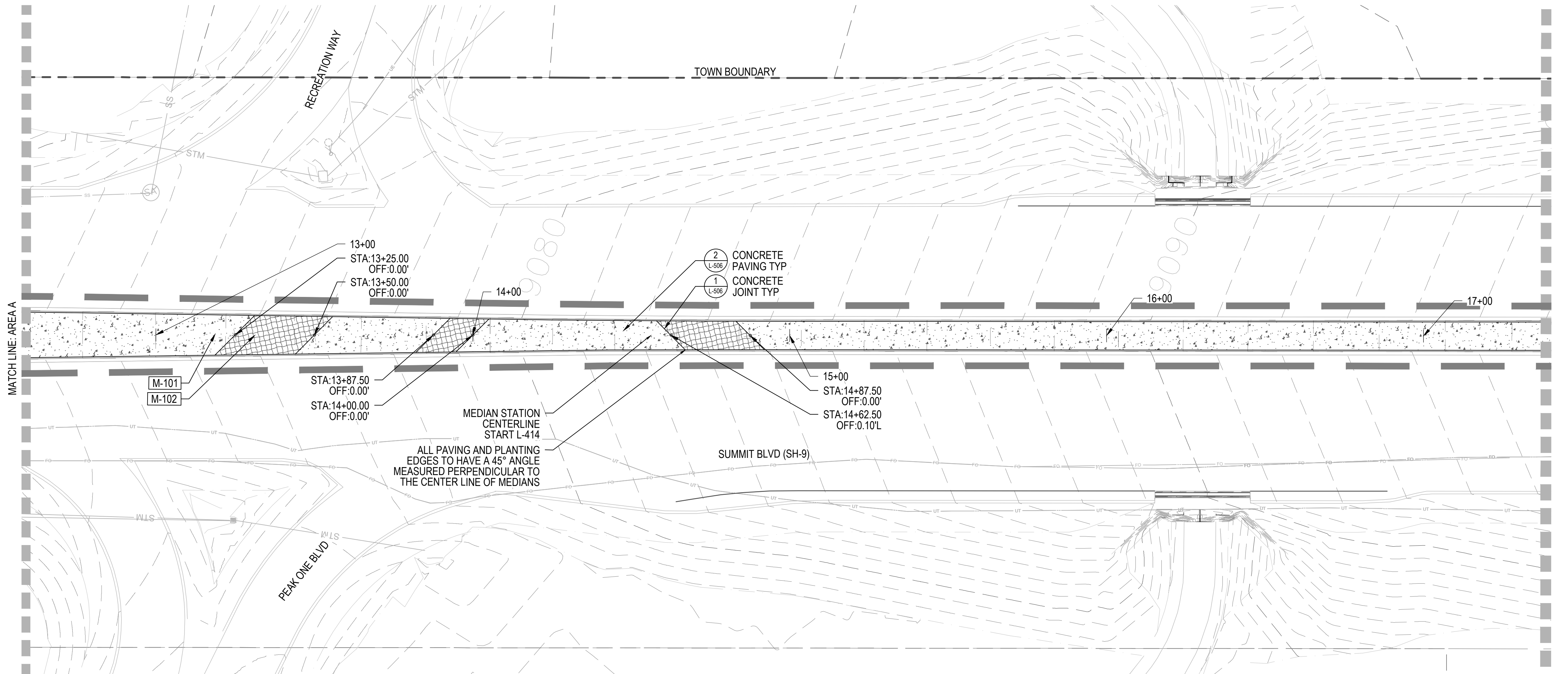
LEGEND

- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- BURIED SPlice / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
- WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)
- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS
- EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

- NOTES:**
1. ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 2. CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 3. ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 4. ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 5. SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 6. ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 7. NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.



LAYOUT AREA A

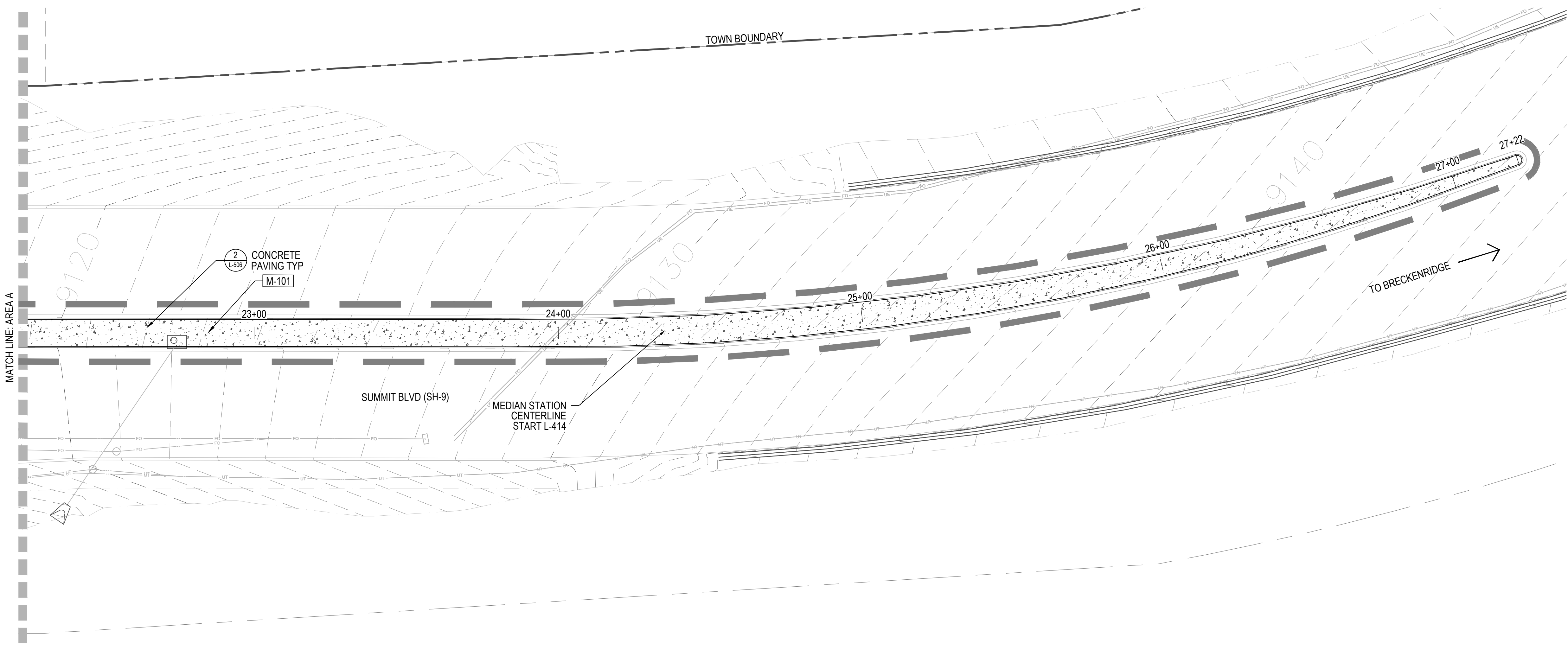
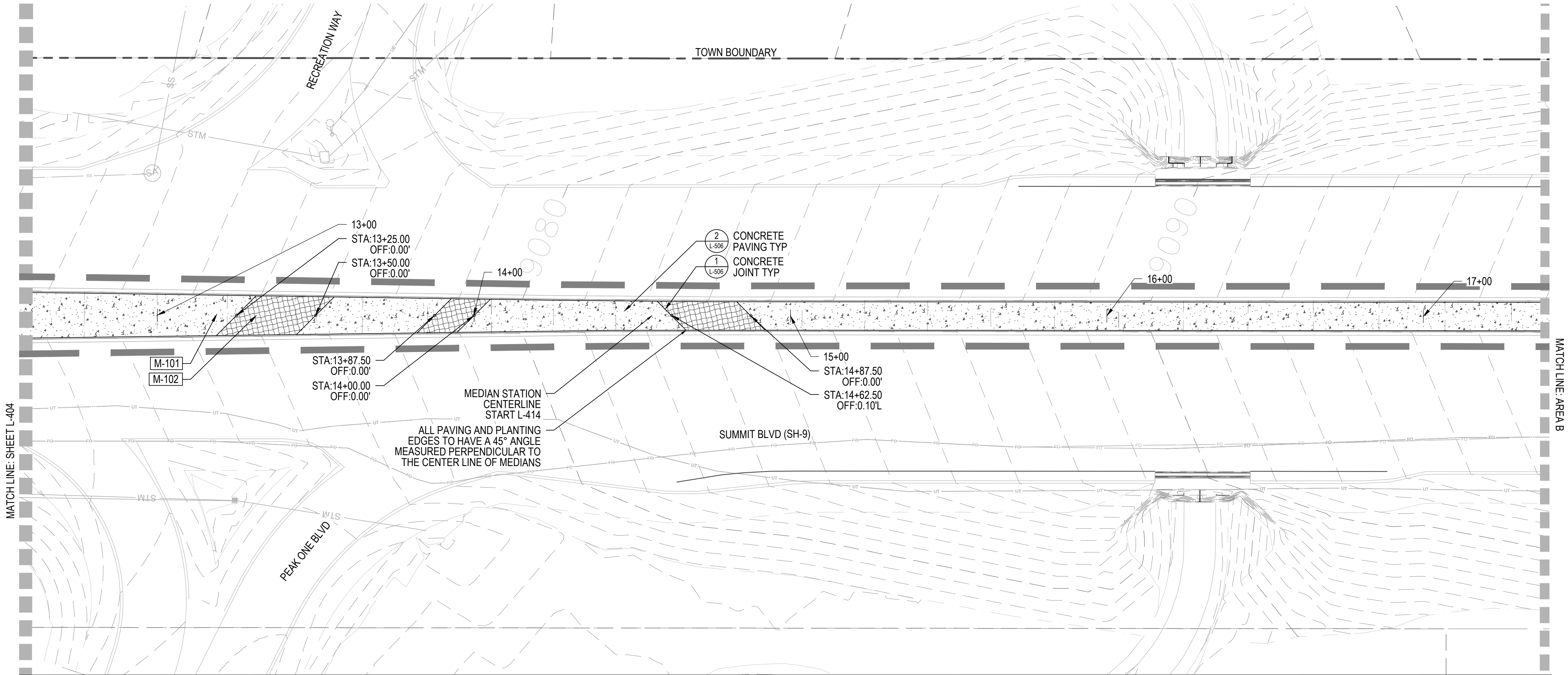
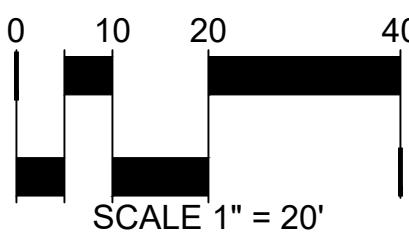


LAYOUT AREA B





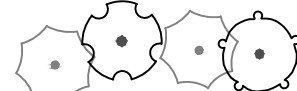
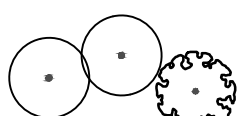
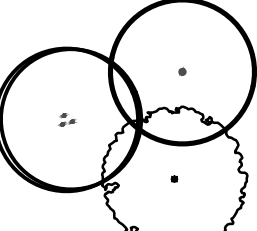
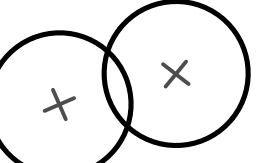
LEGEND

	EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
	DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
	DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
	PERENNIAL (SEE DETAIL 4, SHEET L-501)
	NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
	LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
	CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
	POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
	BURIED SPLICE / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
	WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
	STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
	ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
	MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
	WOOD MULCH (MATERIAL M-106, SHEET L-002)
	ROCK MULCH (MATERIAL M-104, SHEET L-002)
	WILDFLOWER MIX (SHEET L-002)
	MATCH LINE
	LIMIT OF WORK
	ENLARGEMENTS
	PROPERTY LINE
	EASEMENTS
	EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
	PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

- NOTES:
- ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 - CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 - ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 - ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 - SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 - ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 - NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.



LEGEND



EVERGREEN TREE

DECIDUOUS TREE

DECIDUOUS SHRUB

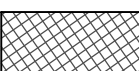


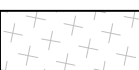


PERENNIAL

NATIVE GRASS






LANDSCAPE BOULDER (SEE DETAIL 1 - 2, SHEET L-502)

CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)

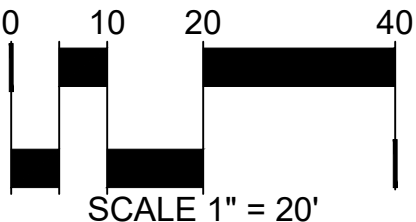
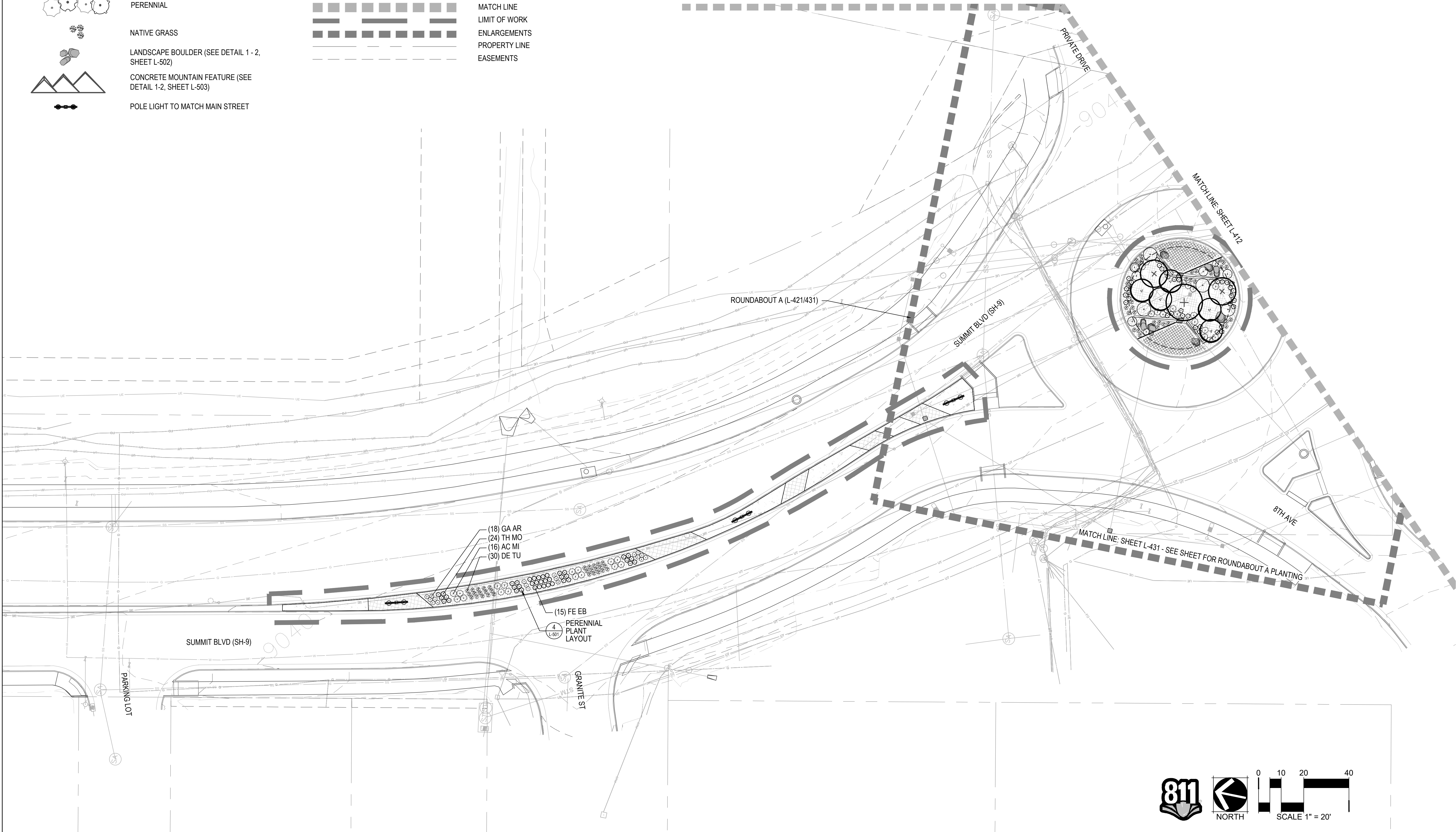
POLE LIGHT TO MATCH MAIN STREET



STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
LANDSCAPE MULCH (MATERIAL M-106, SHEET L-002)
LANDSCAPE ROCK (MATERIAL M-104, SHEET L-002)
WILDFLOWER MIX (SHEET L-002)



MATCH LINE
LIMIT OF WORK
ENLARGEMENTS
PROPERTY LINE
EASEMENTS



LEGEND

EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)

DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)

DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)

PERENNIAL (SEE DETAIL 4, SHEET L-501)

NATIVE GRASS (SEE DETAIL 4, SHEET L-501)

LANDSCAPE BOULDER (SEE DETAIL 1 - 2, SHEET L-502)

CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)

POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR

STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)

ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)

MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)

WOOD MULCH (MATERIAL M-106, SHEET L-002)

ROCK MULCH (MATERIAL M-104, SHEET L-002)

WILDFLOWER MIX (SHEET L-002)

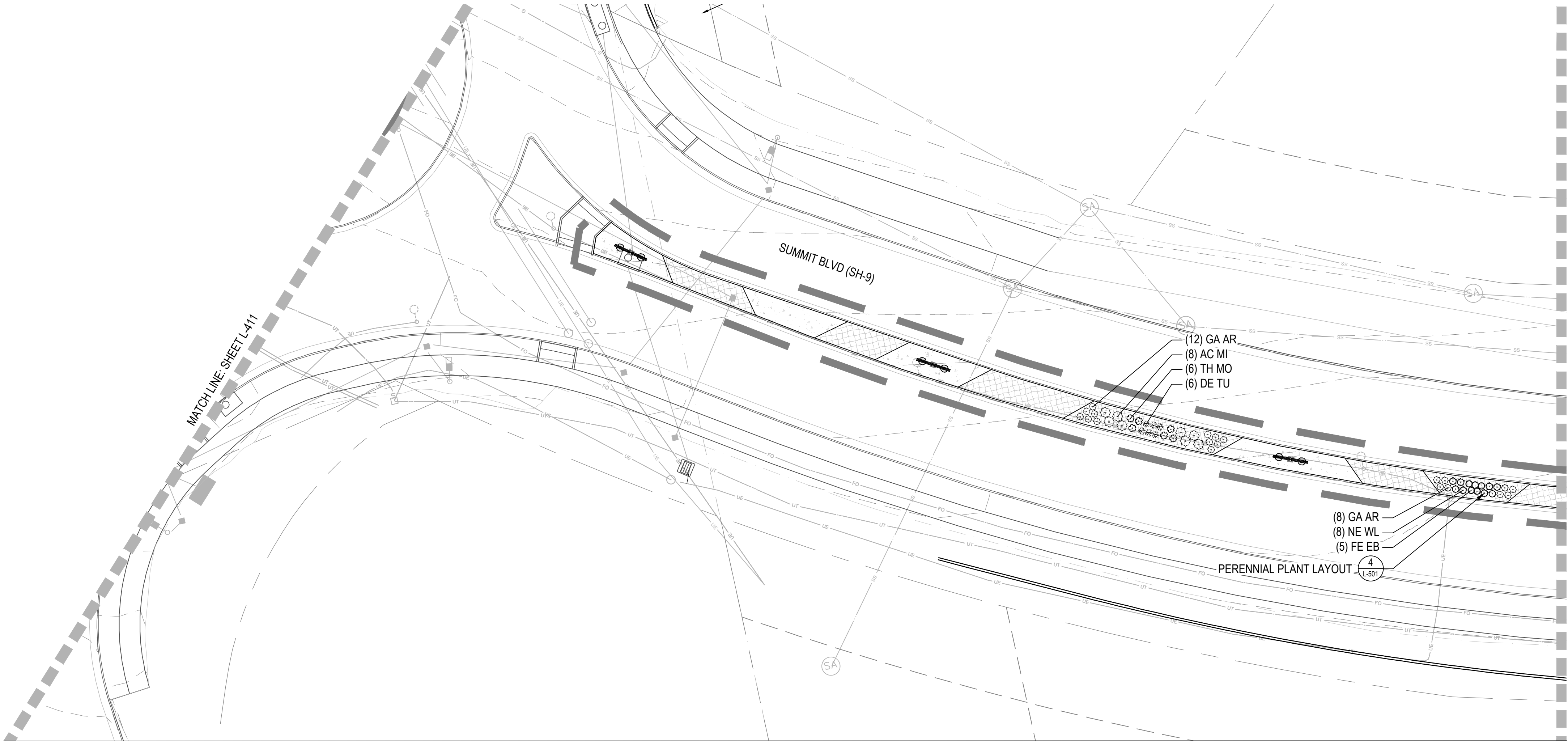
MATCH LINE

LIMIT OF WORK

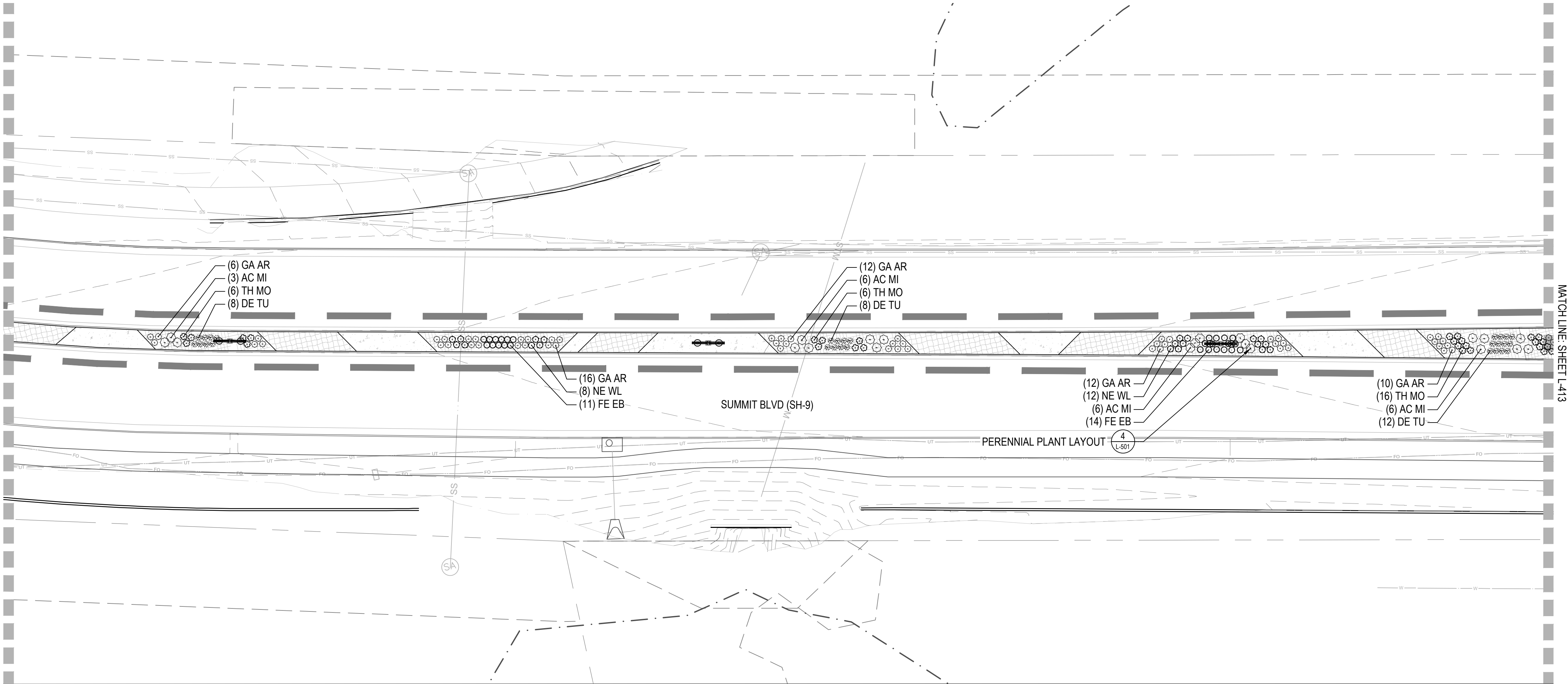
ENLARGEMENTS

PROPERTY LINE

EASEMENTS



LAYOUT AREA A



LAYOUT AREA B



B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

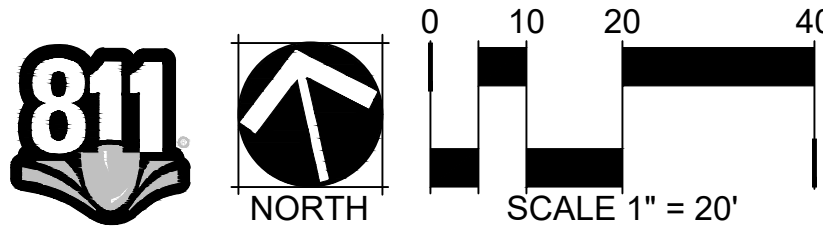
NOT FOR
CONSTRUCTION

DATE:

02/24/23: CDOT.PRMT
03/08/23: BID SET

SHEET TITLE:
MEDIAN
LANDSCAPE
PLAN

L-412





B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

**NOT FOR
CONSTRUCTION**

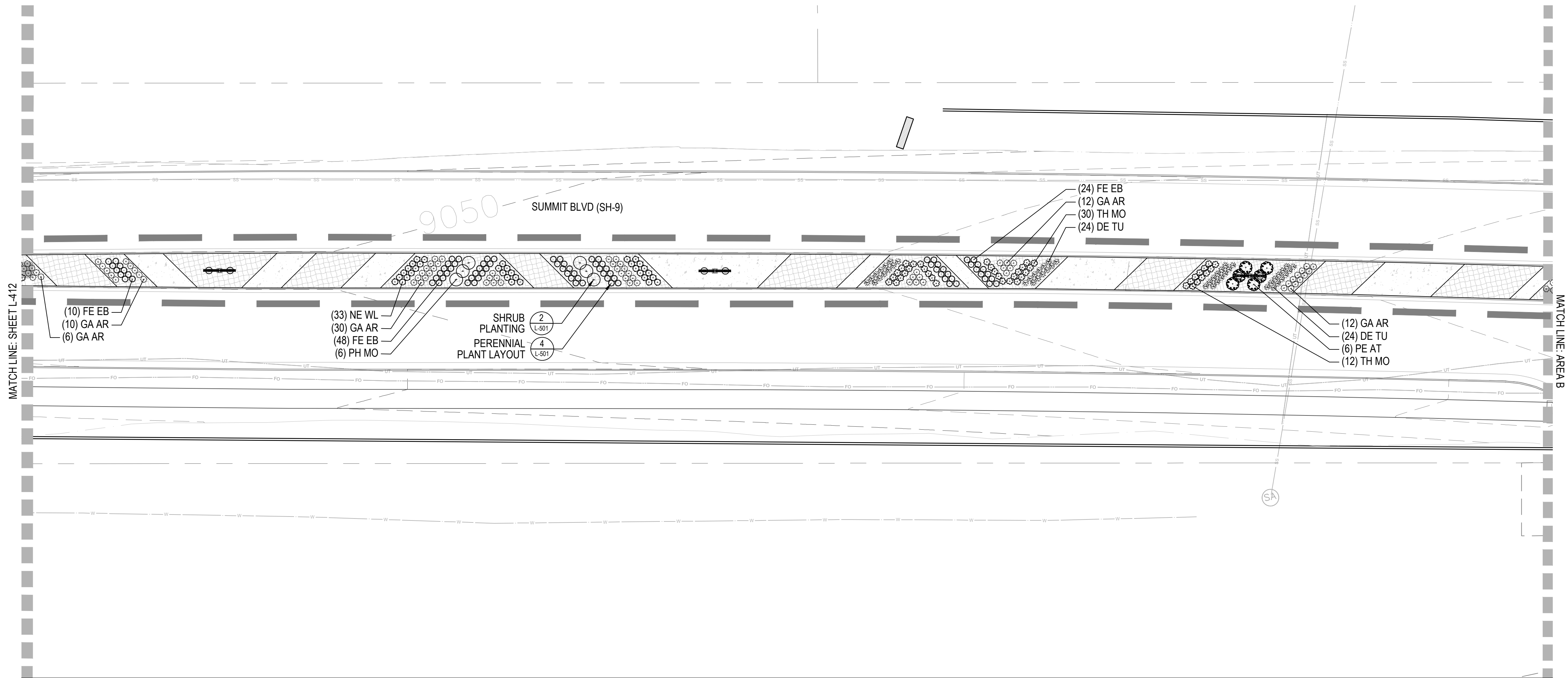
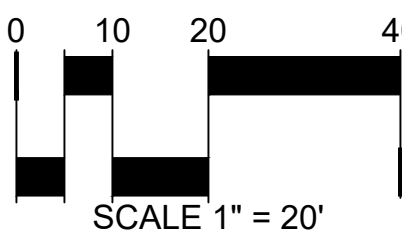
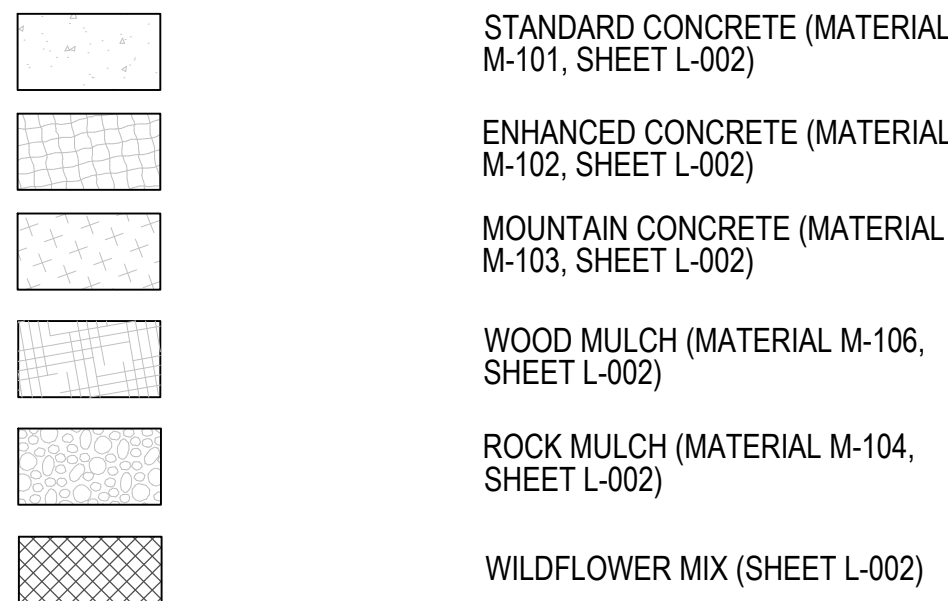
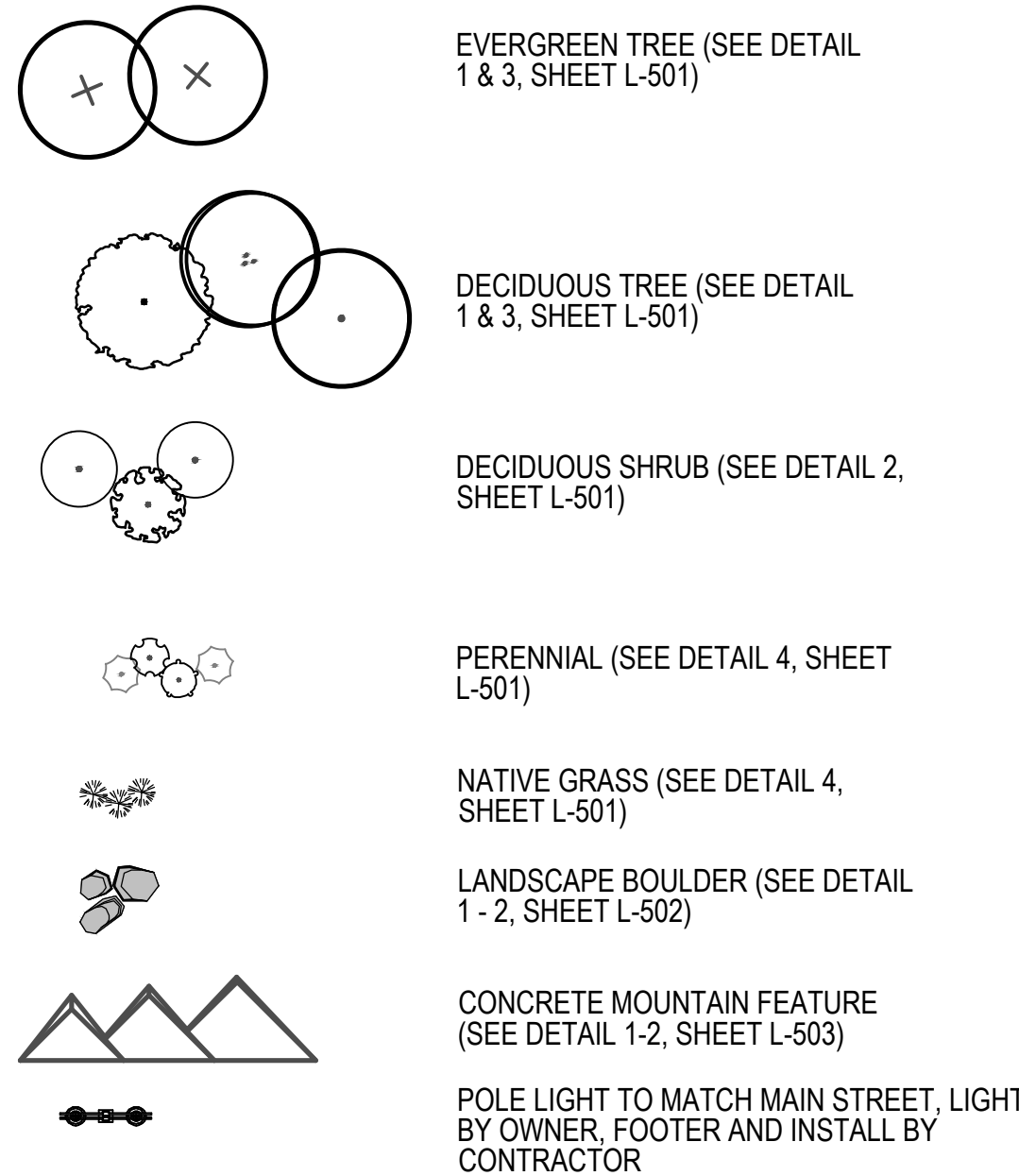
DATE:

02/24/23: CDOT.PRMT
03/08/23: BID SET

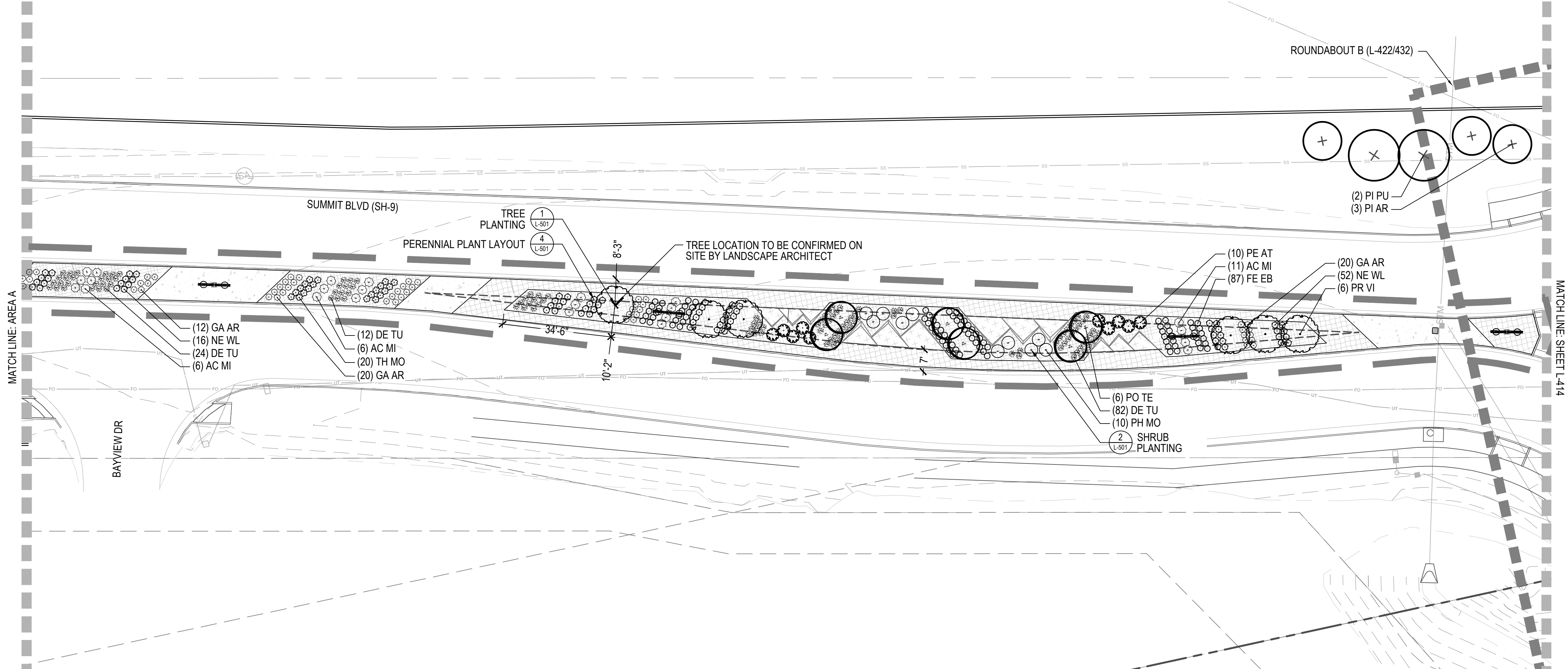
SHEET TITLE:
MEDIAN
LANDSCAPE
PLAN

L-413

LEGEND



LAYOUT AREA A

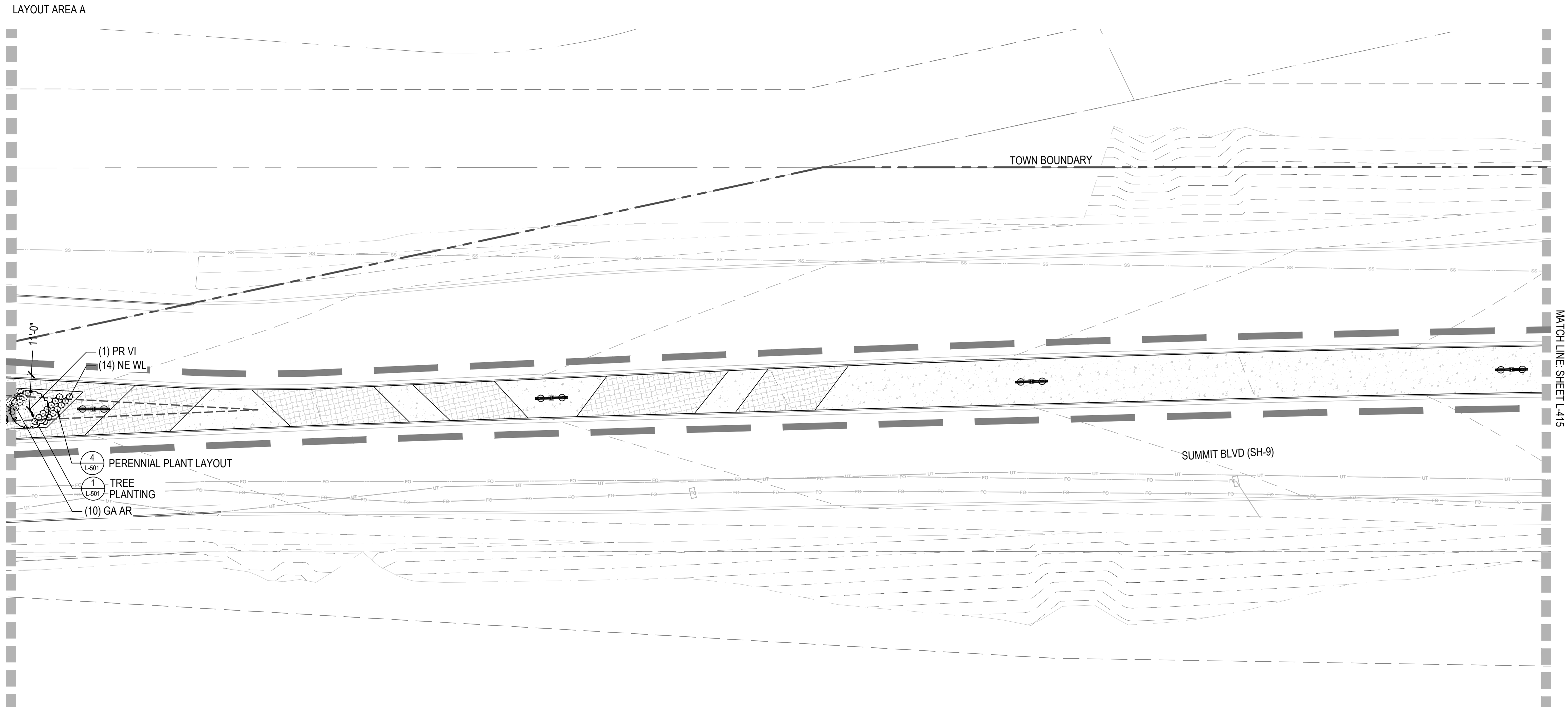
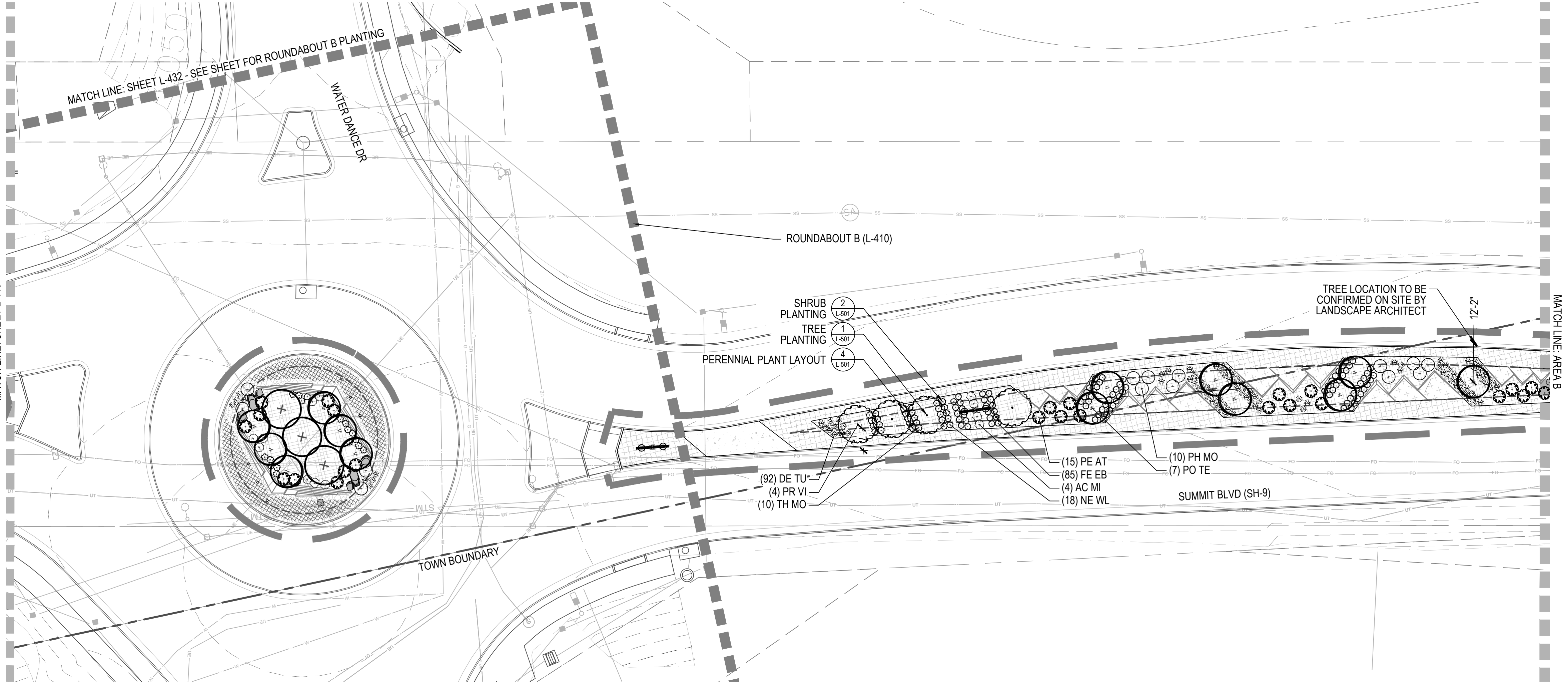
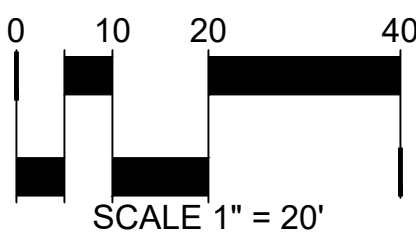


LAYOUT AREA B

CHECKED BY: MT
DRAWN BY: AR

LEGEND

- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)
- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS





B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

**NOT FOR
CONSTRUCTION**

DATE:

02/24/23: CDOT PRMT
03/08/23: BID SET

SHEET TITLE:

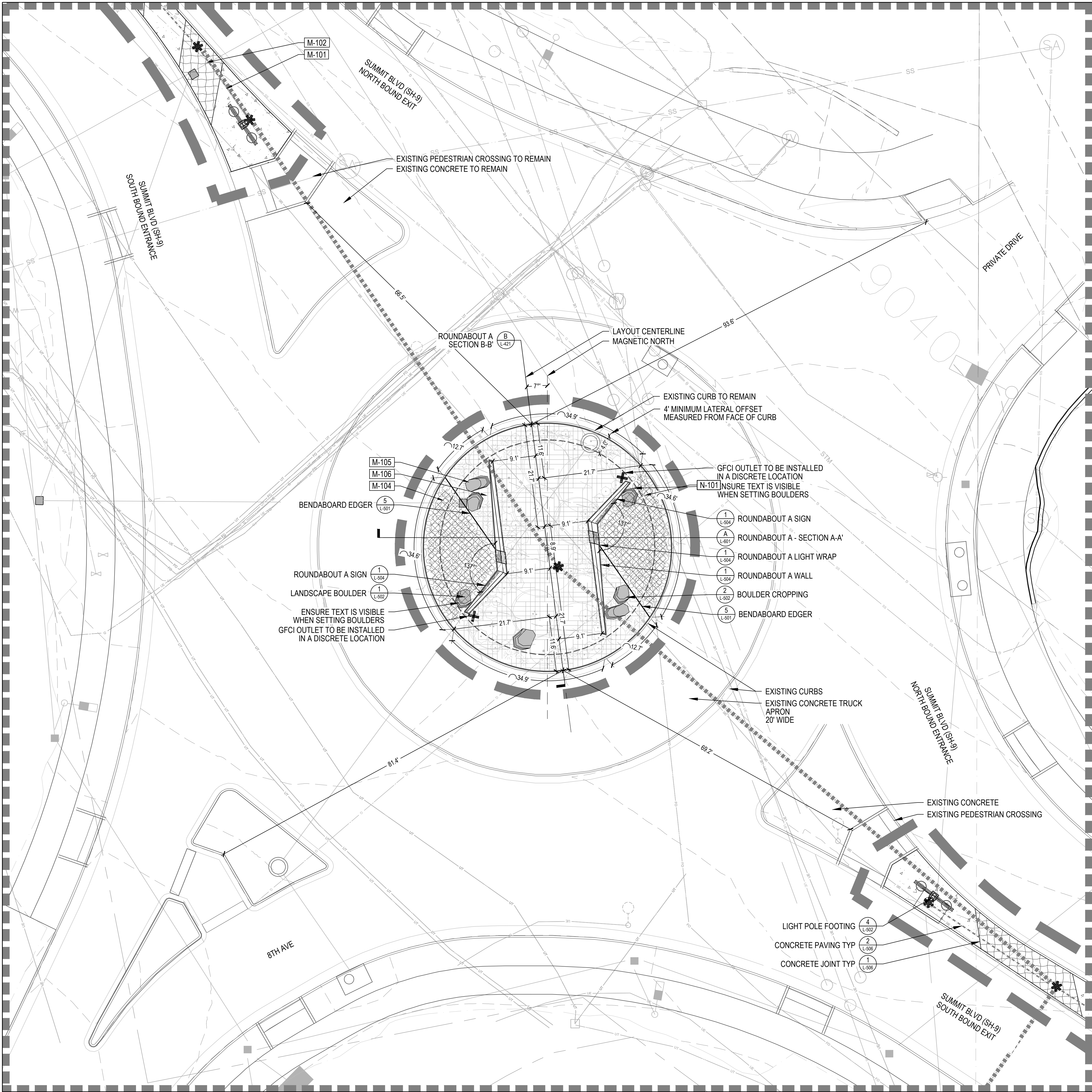
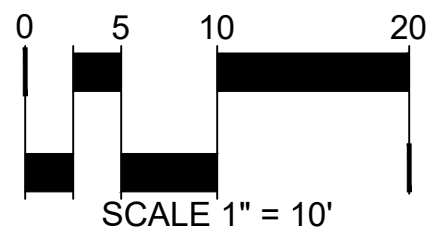
ROUNDABOUT: A
LAYOUT PLAN

L-421

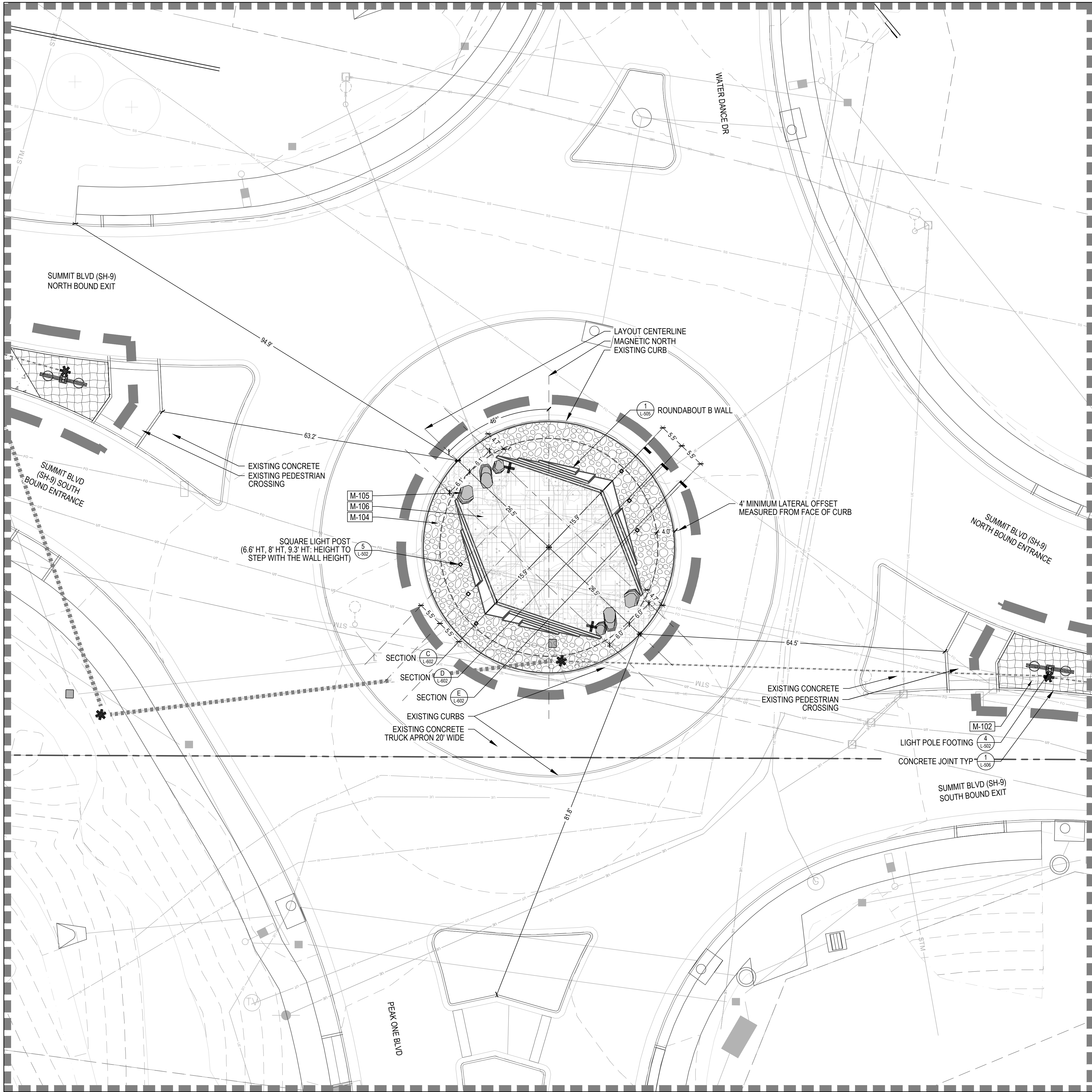
LEGEND

- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- BURIED SPLICE / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
- WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)
- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS
- EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

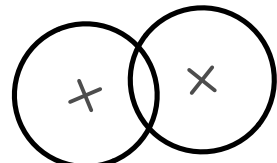
- NOTES:
- ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 - CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 - ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 - ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 - SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 - ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 - NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.

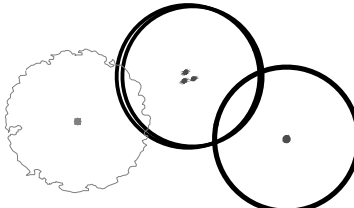


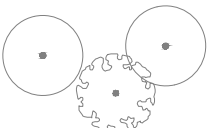
CHECKED BY: MT
DRAWN BY: AR





LEGEND


- 


EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- 


DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- 


DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- 


PERENNIAL (SEE DETAIL 4, SHEET L-501)
- 


NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- 


LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- 


CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- 


POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR
- 

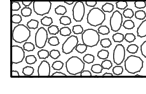
BURIED SPLICE / PULL BOX, INSTALL PER CDOT STANDARD S-613-1 SHEET 4
- 

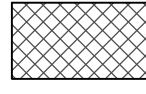
WATER PROOF GFCI OUTLETS, 4 OUTLETS MINIMUM, COORDINATE MINIMUM REQUIREMENT WITH OWNER
- 


STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- 


ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- 


MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- 


WOOD MULCH (MATERIAL M-106, SHEET L-002)
- 


ROCK MULCH (MATERIAL M-104, SHEET L-002)
- 


WILDFLOWER MIX (SHEET L-002)
- 


MATCH LINE
- 

LIMIT OF WORK
- 

ENLARGEMENTS
- 

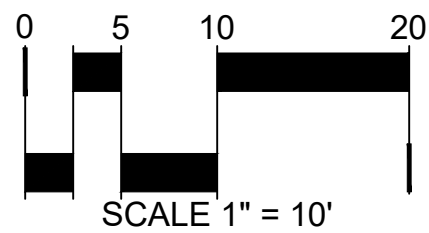
PROPERTY LINE
- 

EASEMENTS
- 

EXISTING ELECTRICAL CONDUIT, FIELD LOCATE
- 

PROPOSED ELECTRICAL CONDUIT, 3" DIAMETER, SCHEDULE 80 MINIMUM, COORDINATE FINAL CONDUIT TYPE WITH OWNER

- NOTES:
1. ELECTRICAL SYSTEM SHALL BE DESIGN/BUILD.
 2. CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN PRIOR TO ANY CONCRETE POURS.
 3. ELECTRICAL LAYOUT IS DIAGRAMMATICAL ONLY, CONTRACTOR AND ELECTRICIAN SHALL CONTACT OWNER PRIOR TO CONSTRUCTION TO REVIEW DETAILS.
 4. ELECTRICIAN SHALL PROVIDE SHOP DRAWINGS RE OWNER.
 5. SHOWN EXISTING AND PROPOSED ELECTRICAL CONDUIT, JUNCTION BOXES, AND GFCI SOCKETS LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE ALL LOCATIONS WITH OWNER BEFORE INSTALLATION.
 6. ALL INSTALLED ELECTRICAL EQUIPMENT TO COMPLY WITH CDOT STANDARDS.
 7. NORRIS DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ELECTRICAL DESIGN.



B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

NOT FOR
CONSTRUCTION

DATE:

02/24/23: CDOT.PRMT
03/08/23: BID SET

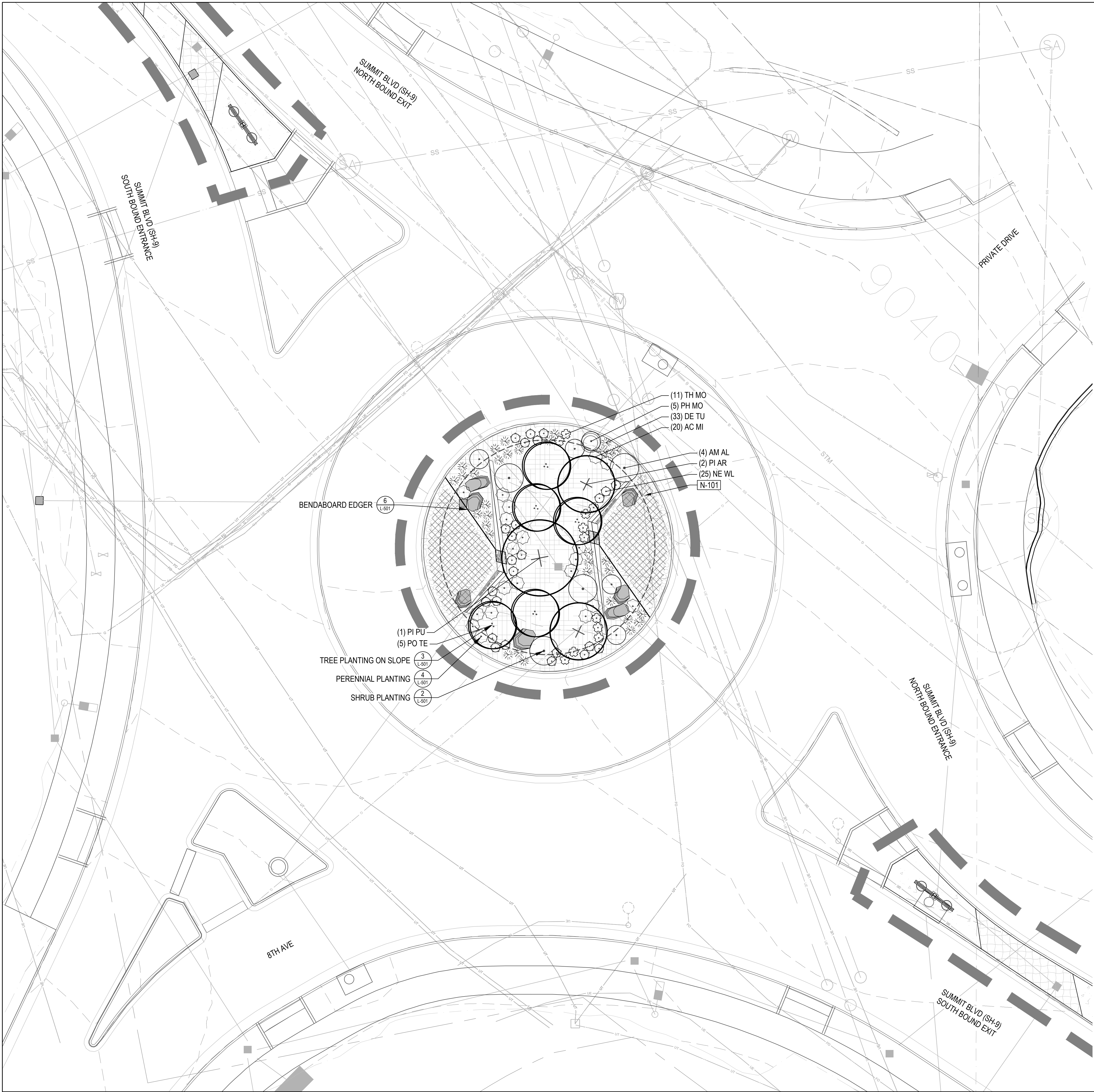
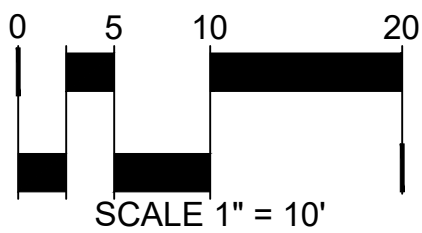
SHEET TITLE:
ROUNDABOUT: B
LAYOUT PLAN

LEGEND

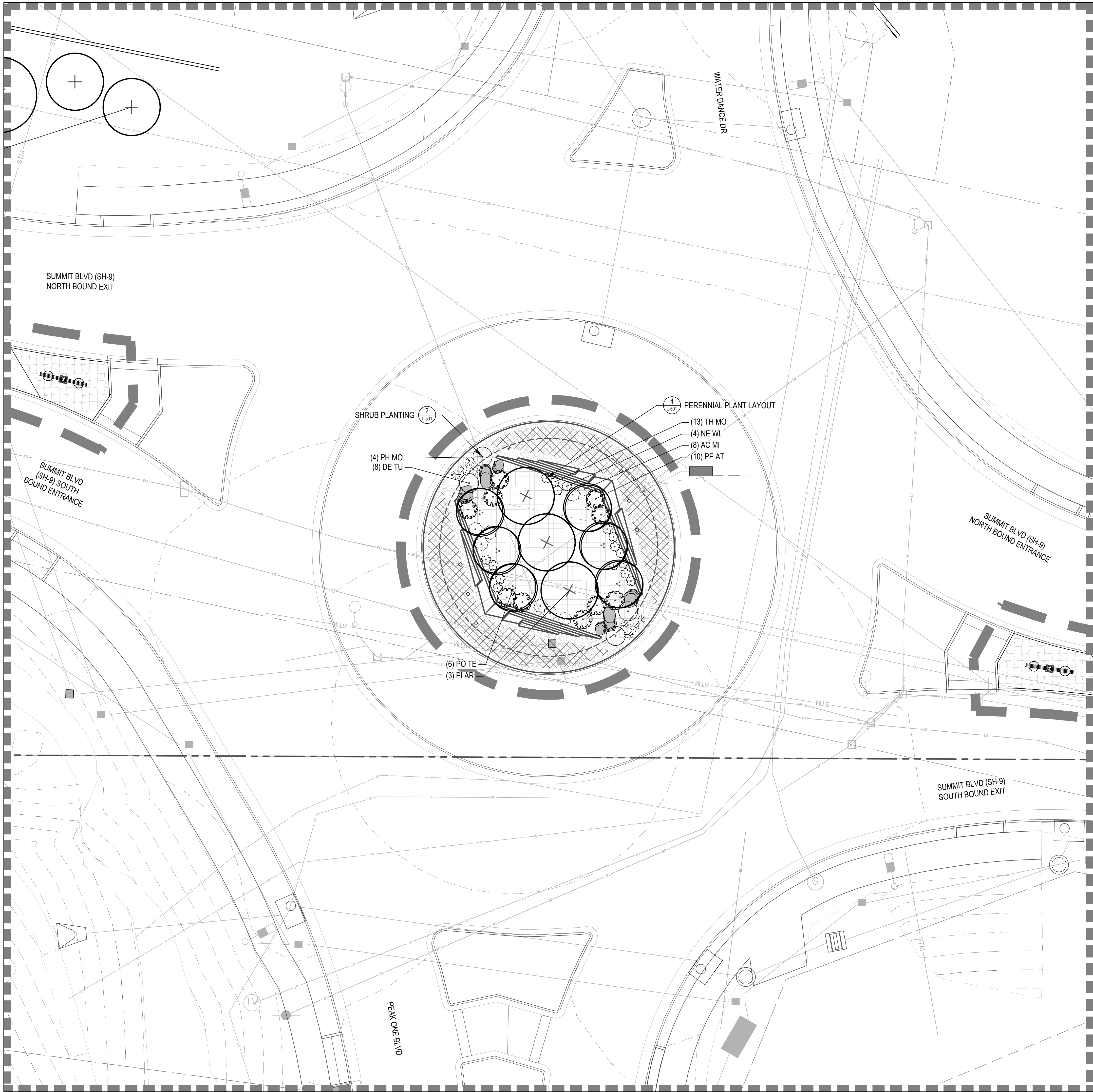
- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1 - 2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR

- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)

- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS



CHECKED BY: MT
DRAWN BY: AR



LEGEND

- EVERGREEN TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS TREE (SEE DETAIL 1 & 3, SHEET L-501)
- DECIDUOUS SHRUB (SEE DETAIL 2, SHEET L-501)
- PERENNIAL (SEE DETAIL 4, SHEET L-501)
- NATIVE GRASS (SEE DETAIL 4, SHEET L-501)
- LANDSCAPE BOULDER (SEE DETAIL 1-2, SHEET L-502)
- CONCRETE MOUNTAIN FEATURE (SEE DETAIL 1-2, SHEET L-503)
- POLE LIGHT TO MATCH MAIN STREET, LIGHT BY OWNER, FOOTER AND INSTALL BY CONTRACTOR

- STANDARD CONCRETE (MATERIAL M-101, SHEET L-002)
- ENHANCED CONCRETE (MATERIAL M-102, SHEET L-002)
- MOUNTAIN CONCRETE (MATERIAL M-103, SHEET L-002)
- WOOD MULCH (MATERIAL M-106, SHEET L-002)
- ROCK MULCH (MATERIAL M-104, SHEET L-002)
- WILDFLOWER MIX (SHEET L-002)

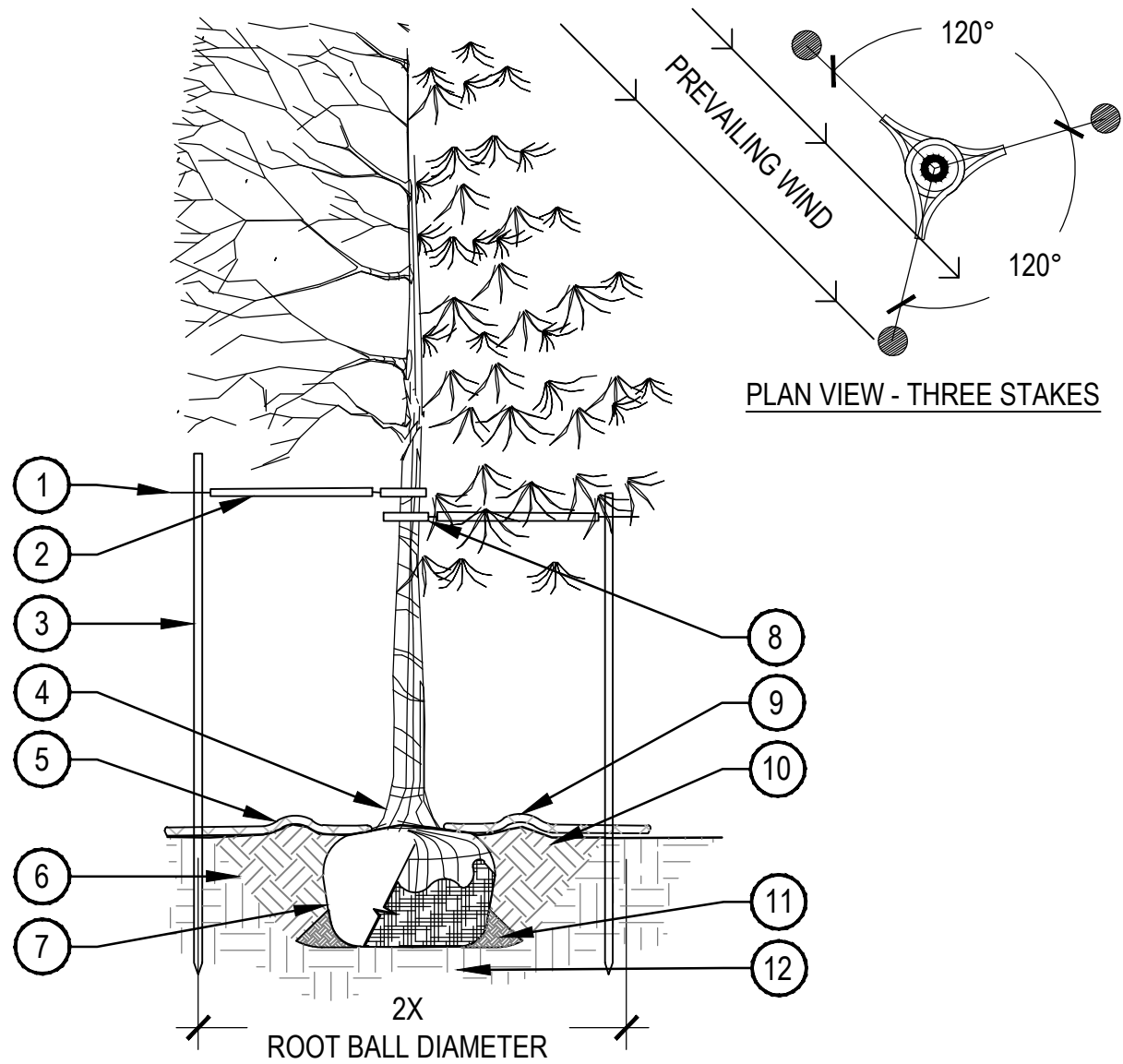
- MATCH LINE
- LIMIT OF WORK
- ENLARGEMENTS
- PROPERTY LINE
- EASEMENTS

PRUNING NOTES:

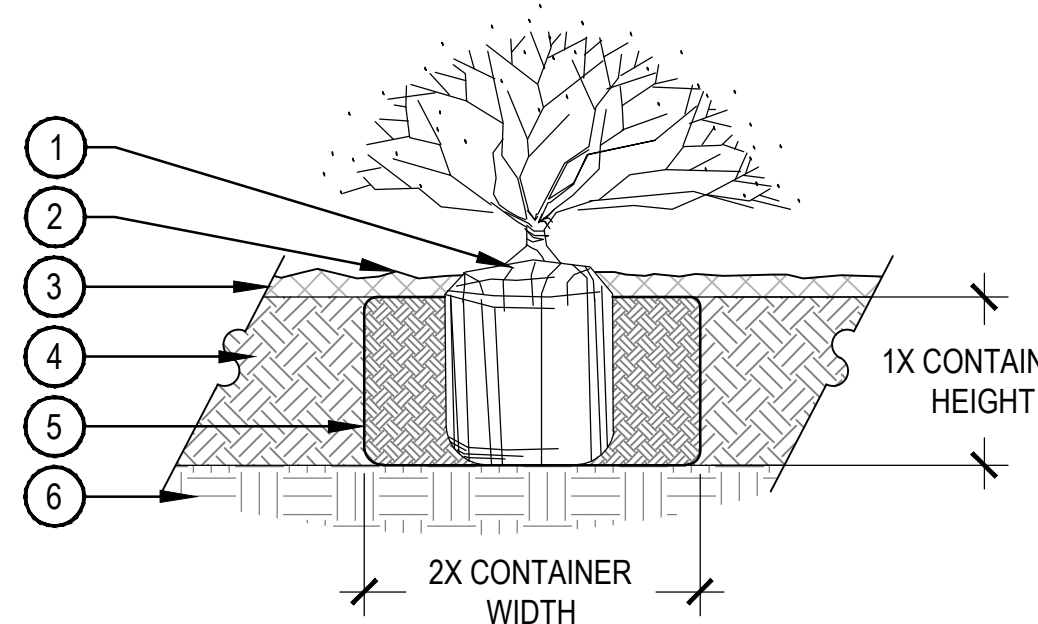
- ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.
- DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSEVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKING NOTES:

- STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF (3) THREE YEARS CONFIRM TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUNK OF TREE, WHEN ROOTBALL DOES NOT MOVE, REMOVE STAKING.
 - 2" CALIPER SIZE AND UNDER DECIDUOUS AND ASPEN TREES - MINIMUM 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR PREVAILING WIND SIDE AND 180° FROM THAT SIDE).
 - EVERGREEN TREES - 3 STAKES PER DIAGRAM.
 - 3" CALIPER SIZE AND LARGER - 3 STAKES PER DIAGRAM.
- WIRE OR CABLE SHALL BE MINIMUM 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
- ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.
- TREATED WOOD POST PREFERRED. METAL T STAKES WITH PLASTIC SAFETY CAPS ACCEPTABLE WITH APPROVAL FROM OWNER.



- GALVANIZED WIRE
- PLACE MINIMUM 1/2" PVC PIPE AROUND EACH WIRE, EXPOSED WIRE SHALL BE MAXIMUM 2" EACH SIDE
- INSTALL STAKING PER SPECIFICATIONS
- PLANT TREE SO THAT FIRST ORDER MAJOR ROOT IS 1"-2" ABOVE FINAL GRADE
- 2'-0" RADIUS MULCH RING, VENTERED ON TRUNK, 3" DEPTH, ON TOP OF WEED FABRIC, DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK, FINISHED GRADE REFERENCES TOP OF MULCH
- 1:1 SLOPE ON SIDES OF PLANTING HOLE
- REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM THE ENTIRE ROOTBALL AND TRUNK
- GROMMETED NYLON STRAPS
- 4'-6" HIGH WATER SAUCER IN NON-TURF AREAS
- BACKFILL AROUND ROOTBALL WITH PLANT MIX, PLANT MIX SHALL CONSIST OF EQUAL PARTS TOPSOIL, COMPOST, EXCAVATED SOIL, PLUS MYCORRHIZAL INOCULANT PER SPECIFICATIONS
- PLACE SOIL AROUND ROOT BALL FIRMLY, DO NOT COMPACT OR TAMP, SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS
- PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT



NOTE:

- BROKEN OR CRUMBLING ROOT-BALLS WILL BE REJECTED.
- CARE SHOULD BE TAKEN NOT TO DAMAGE THE SHRUB OR ROOT-BALL WHEN REMOVING IT FROM ITS CONTAINER.
- ALL JUNIPERS SHOULD BE PLANTED SO THE TOP OF THE ROOT-BALL OCCURS ABOVE THE FINISH GRADE OF THE MULCH LAYER.
- DIG PLANT PIT TWICE AS WIDE AND AS HIGH AS THE CONTAINER.
- PRUNE ALL DEAD OR DAMAGED WOOD PRIOR TO PLANTING, DO NOT PRUNE MORE THAN 20% OF LIMBS.

1 TREE PLANTING DETAIL

SCALE: 3/16" = 1'-0"

NOTES:

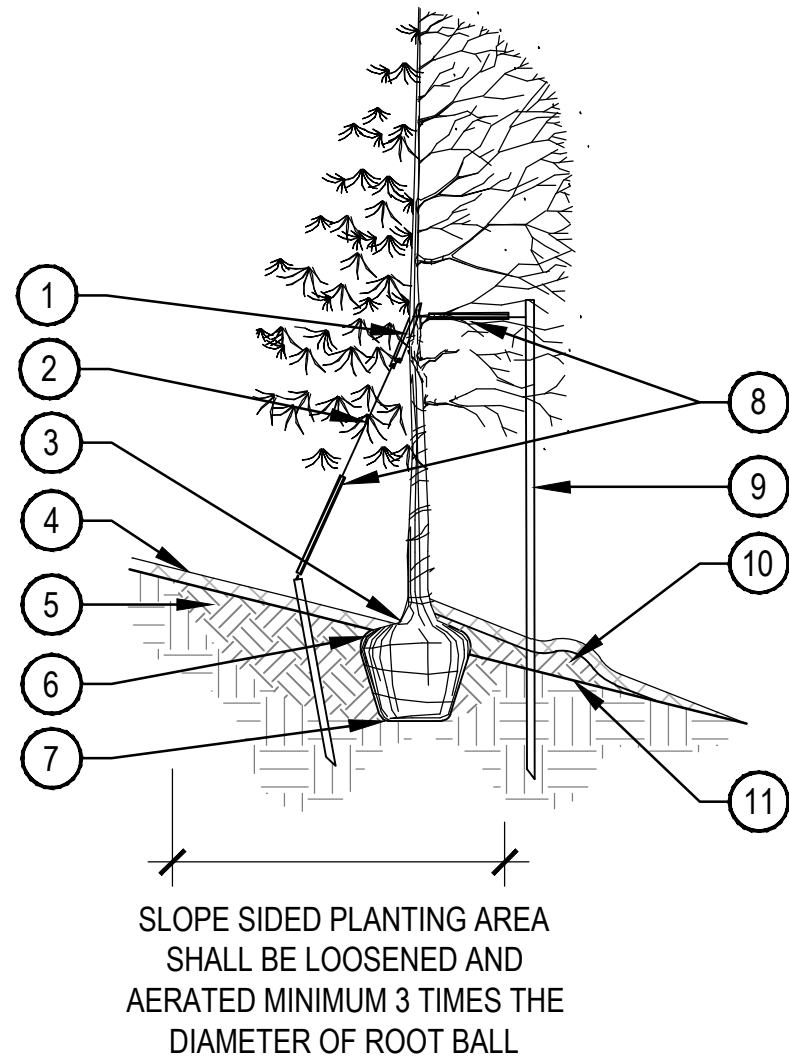
- EXCAVATE PLANTING HOLES WITH SLOPING SIDES. MAKE EXCAVATIONS AT LEAST THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER AND LESS THAN THE DISTANCE FROM THE TOP MOST ROOT AND THE BOTTOM OF THE ROOT BALL. THE PLANTING AREA SHALL BE LOOSENED AND AERATED AT LEAST THREE TO FIVE TIMES THE DIAMETER OF THE ROOT BALL. REFERENCE TREE PLANTING DETAIL FOR BACKFILL NOTES.
- TREES SHALL BE PLANTED WITH THE TOP MOST ROOT IN THE ROOT BALL 3" TO 5" HIGHER THAN THE FINISHED LANDSCAPE GRADE. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED.
- FORM SOIL INTO A 3" TO 5" TALL WATERING RING (SAUCER) AROUND PLANTING AREA. THIS IS NOT NECESSARY IN IRRIGATED TURF AREAS. APPLY 3" TO 4" DEPTH OF SPECIFIED MULCH INSIDE WATERING RING.

PRUNING NOTES:

- ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.
- DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSEVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKING NOTES:

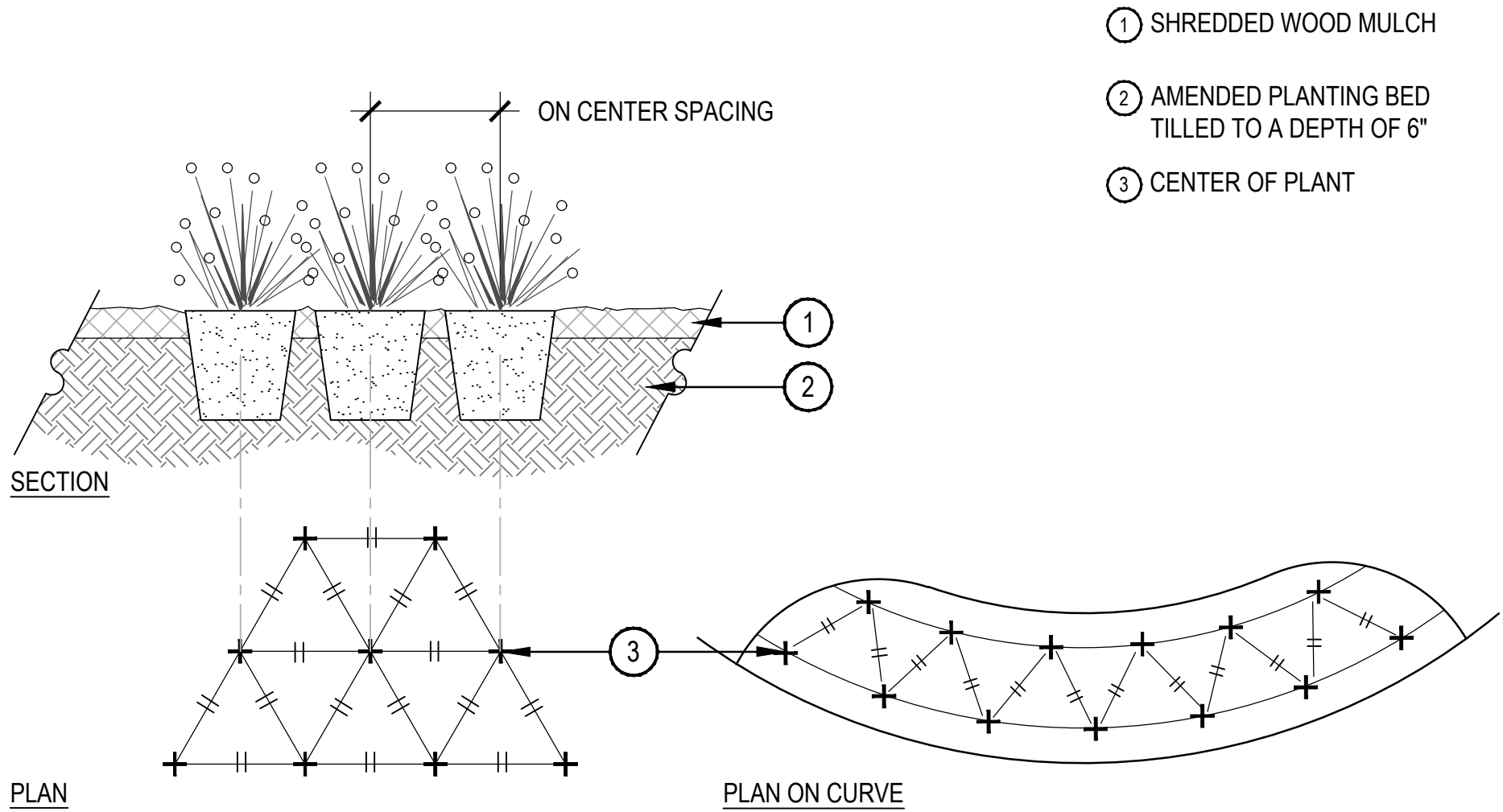
- STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF (3) THREE YEARS CONFIRM TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUNK OF TREE, WHEN ROOTBALL DOES NOT MOVE, REMOVE STAKING.
 - 2" CALIPER SIZE AND UNDER DECIDUOUS AND ASPEN TREES - MINIMUM 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR PREVAILING WIND SIDE AND 180° FROM THAT SIDE).
 - EVERGREEN TREES - 3 STAKES PER DIAGRAM.
 - 3" CALIPER SIZE AND LARGER - 3 STAKES PER DIAGRAM.
- WIRE OR CABLE SHALL BE MINIMUM 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
- ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.
- USE GUY ASSEMBLIES FOR EVERGREENS AND TREES OVER 3" CALIPER. ALL WIRE TO BE MINIMUM 12 GAUGE GALVANIZED.



- GROMMETED NYLON STRAP
- GALVANIZED WIRE
- TOP MOST ROOT IN ROOTBALL: 1"-2" ABOVE EXISTING GRADE, UPHILL SIDE
- 2'-4" OF ORGANIC MULCH APPLIED OVER PLANTING AREA AND AWAY FROM THE TRUNK, REFER TO MATERIAL SCHEDULE, SHEET L-XXX, FINISHED GRADE REFERENCES TOP OF MULCH
- BACKFILL WITH PLANT MIX, PLANT MIX SHALL CONSIST OF EQUAL PARTS TOPSOIL, COMPOST, EXCAVATED SOIL, PLUS MYCORRHIZAL INOCULANT PER SPECIFICATIONS, WATER THOROUGHLY WHEN BACKFILLING
- REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM ENTIRE ROOTBALL AND TRUNK
- PLACE ROOTBALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT, IF SOIL HAS BEEN IMPORTED, PROVIDE MODERATE FOOT PACKING OF SOIL DIRECTLY UNDER LOCATION OF ROOTBALL
- 24" X 3/4" P.V.C. MARKERS (TYPICAL) OVER WIRES
- TREATED WOOD POST, OR METAL T STAKE WITH CAP, WITH GROMMETED NYLON STRAPS, USE 2 GUY WIRES
- UNAMENDED TOPSOIL ADDED TO EXISTING GRADE ON DOWN HILL SIDE, REFER TO SPECIFICATIONS
- EXISTING GRADE

2 SHRUB PLANTING

SCALE: 1 1/2" = 1'-0"

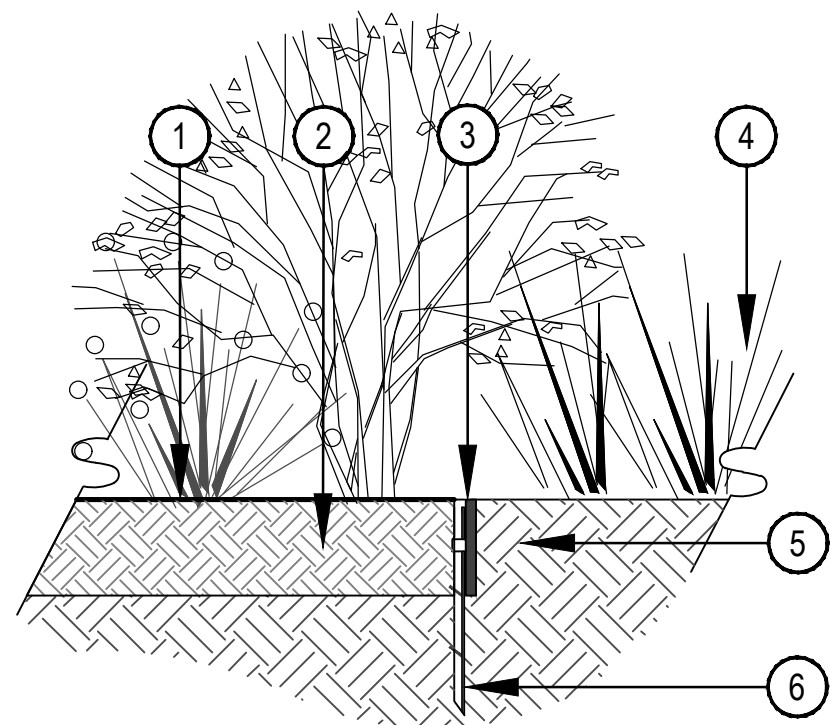


NOTES:

- WHEN PLANTED ON A CURVE, ORIENT ROWS TO FOLLOW THE LONG AXIS OF AREAS WHERE PLANTS ARE MASSED.

3 TREE PLANTING ON SLOPE

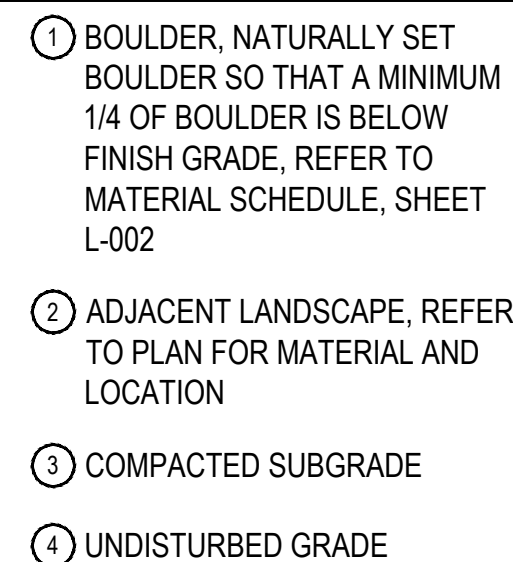
SCALE: 1/4" = 1'-0"



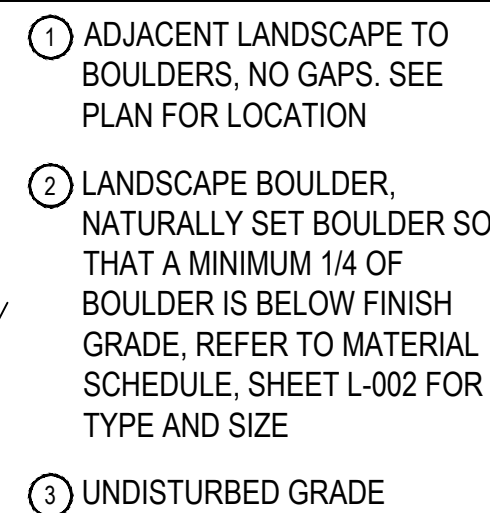
- FINISH GRADE
- ADJACENT LANDSCAPE, SEE LANDSCAPE PLANS FOR TYPE
- 1X6 BENDA BOARD EDGER BY EPIC PLASTICS, COLOR TO BE TEAK
- NATIVE SEED OR ADJACENT LANDSCAPE, REFER TO LANDSCAPE PLANS
- SUBGRADE
- EDGER STAKE, INSTALL PER MANUFACTURER SPECIFICATIONS

5 BENDA BOARD EDGER

N.T.S.

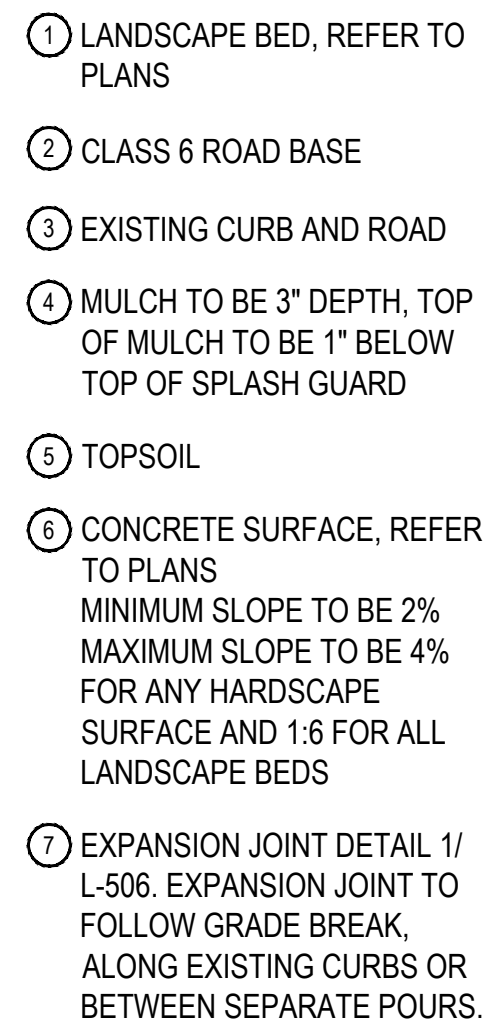
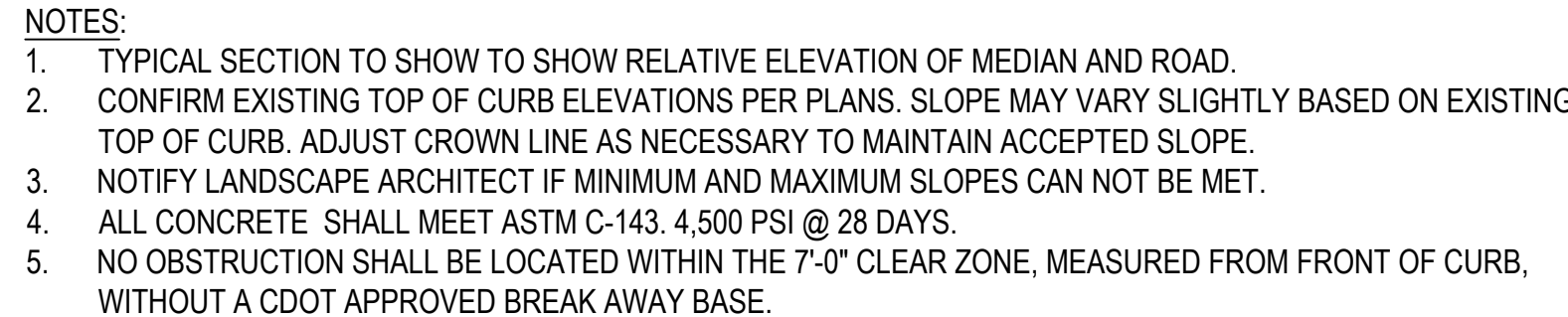


1. THESE ARE FREE STANDING BOULDERS ONLY. BOULDERS ASSOCIATED WITH THE BOULDER RETAINING WALLS BOULDER OUTCROPPING, AND/OR SIGNAGE ARE NOT COVERED BY THIS DETAIL.
2. THE LANDSCAPE ARCHITECT SHALL APPROVE LOCATIONS AND SIZES OF ALL BOULDERS PRIOR TO PLACING.
3. CONTRACTOR SHALL SUBMIT SAMPLE OR PHOTOS FOR APPROVAL.
4. LANDSCAPE BOULDER SHALL NOT BE PLACED WITHIN 4'-0" TRAFFIC LATERAL SETBACKS AS SHOWN ON PLANS.

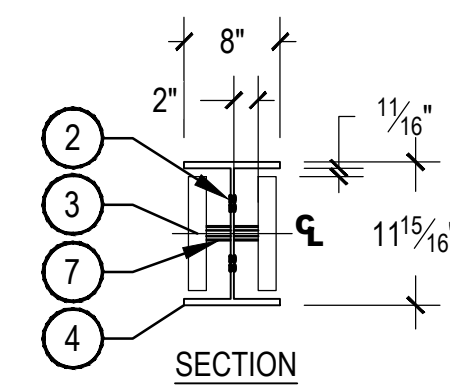
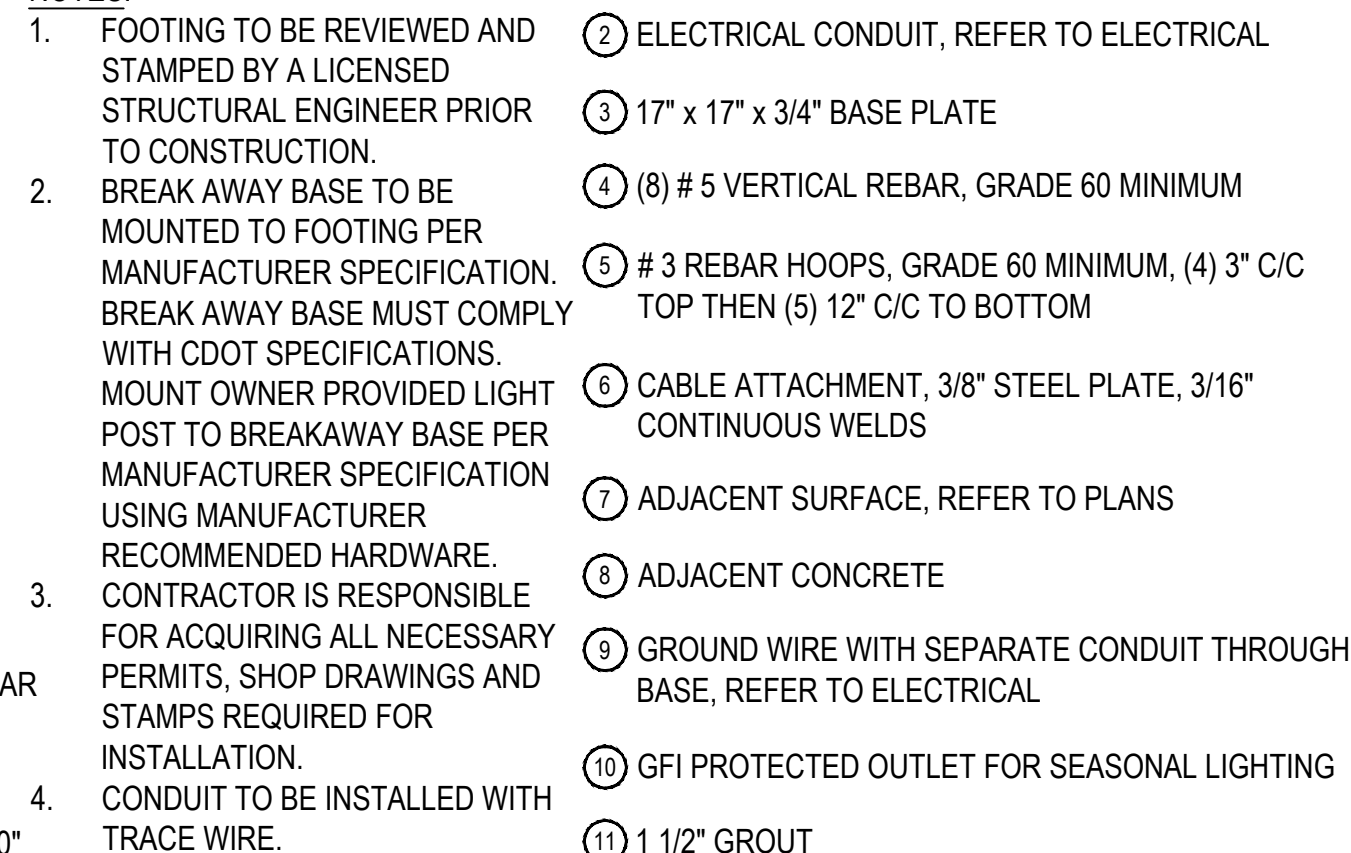


1. THE LANDSCAPE ARCHITECT SHALL APPROVE LOCATIONS AND SIZES OF ALL BOULDERS PRIOR TO PLACING.
2. LANDSCAPE BOULDER SHALL NOT BE PLACED WITHIN TRAFFIC LATERAL SETBACKS AS SHOWN ON PLANS.

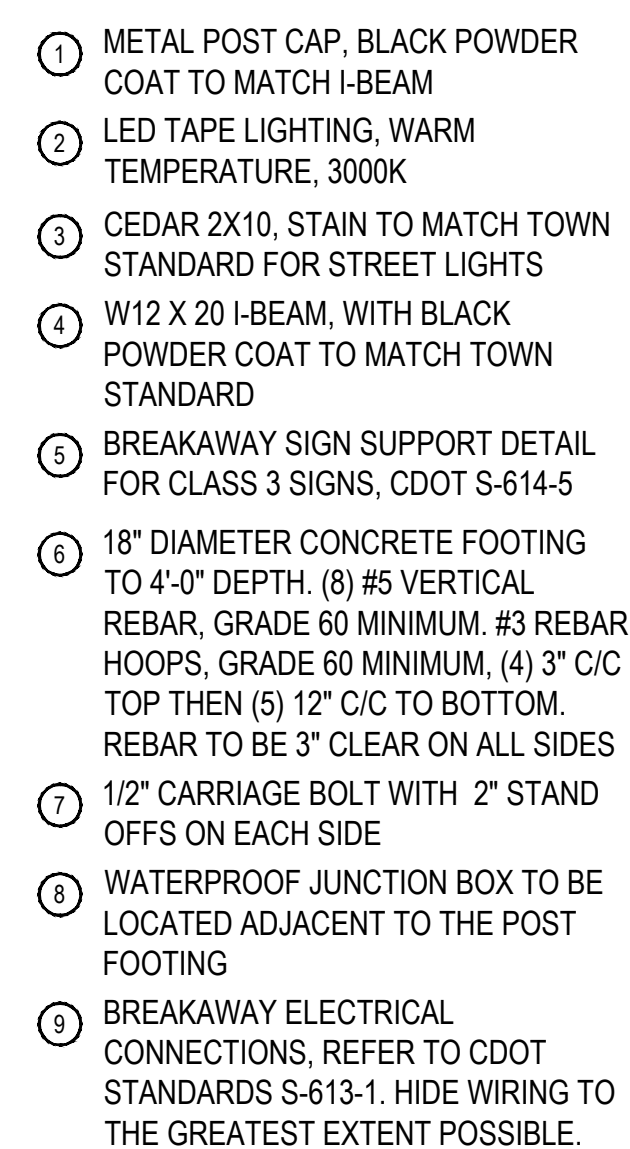
SCALE: 1" = 1'-0"



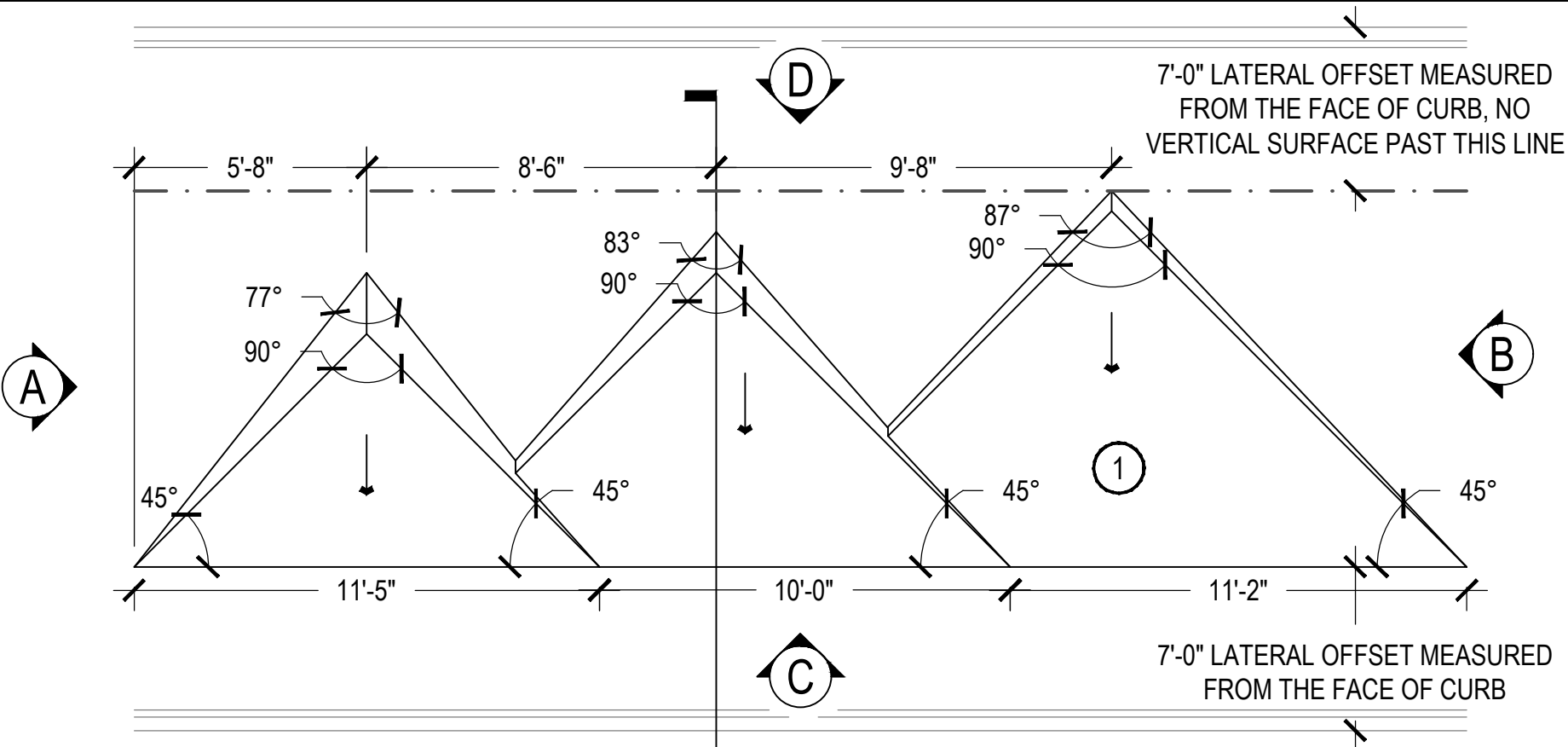
SCALE: 1/2" = 1'-0"



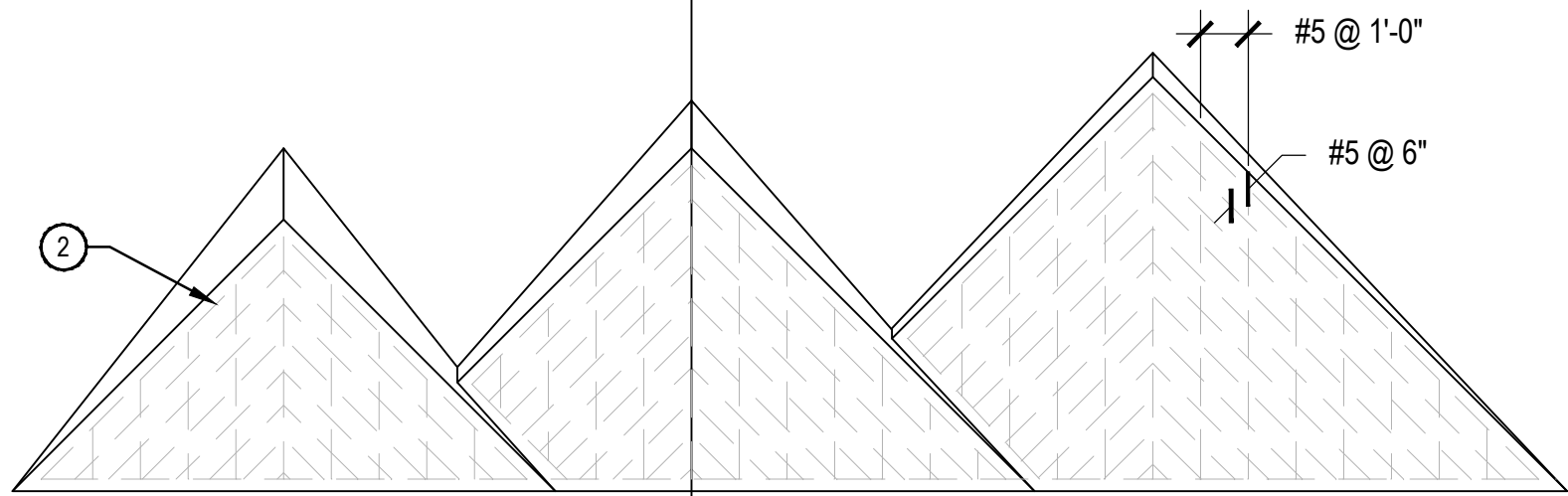
1. DETAIL PROVIDED FOR DESIGN INTENT ONLY.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH ALL NECESSARY STAMPS FOR CONSTRUCTION FOR APPROVAL TO THE OWNERS REPRESENTATIVE BEFORE CONSTRUCTION.
3. ALL LIGHTING SHALL BE DARK SKY COMPLIANT PER TOWN STANDARDS.
4. BREAK AWAY BASE MUST MEET CDOT STANDARDS AND DESIGNS THAT HAVE PASSED MASH CRASH TESTING STANDARDS.



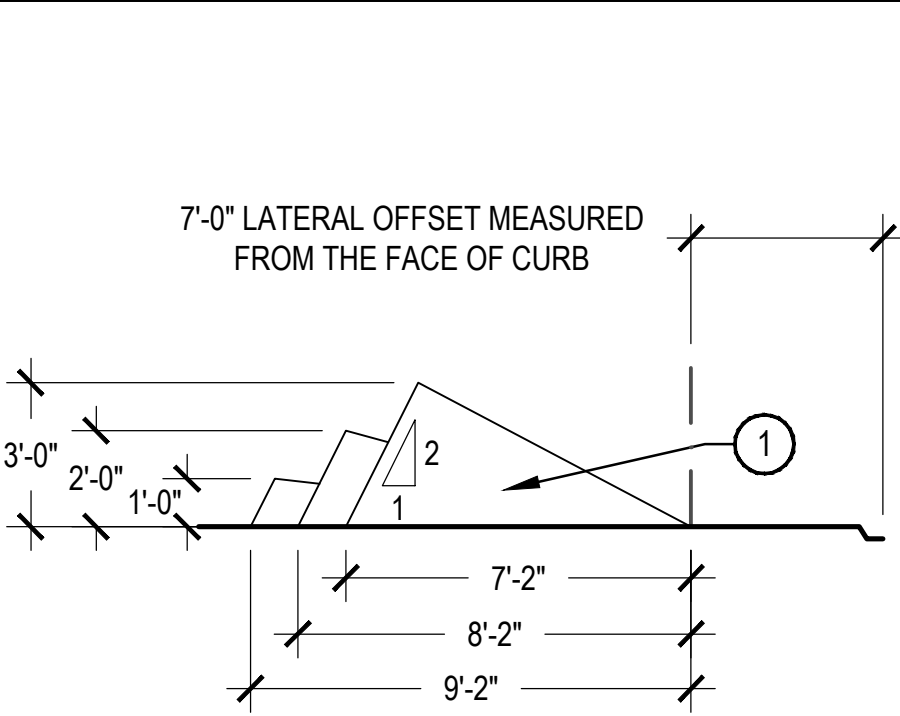
SCALE: 3/4" = 1'-0"



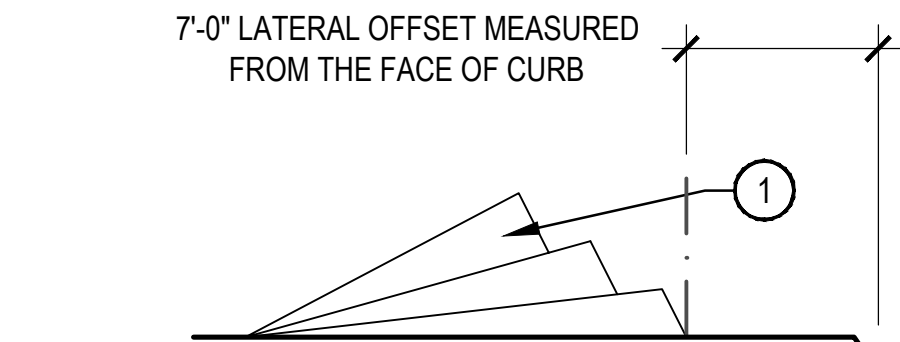
PLAN



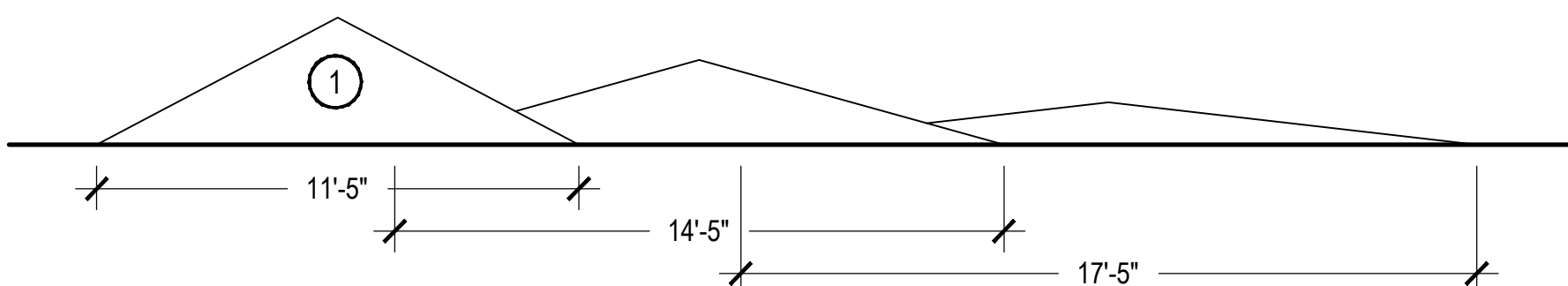
REBAR LAYOUT



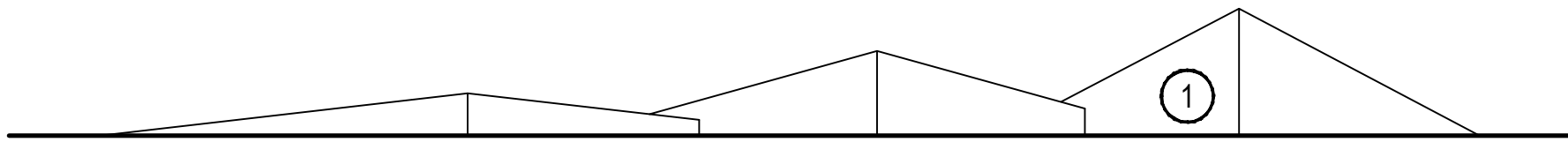
ELEVATION A



ELEVATION B

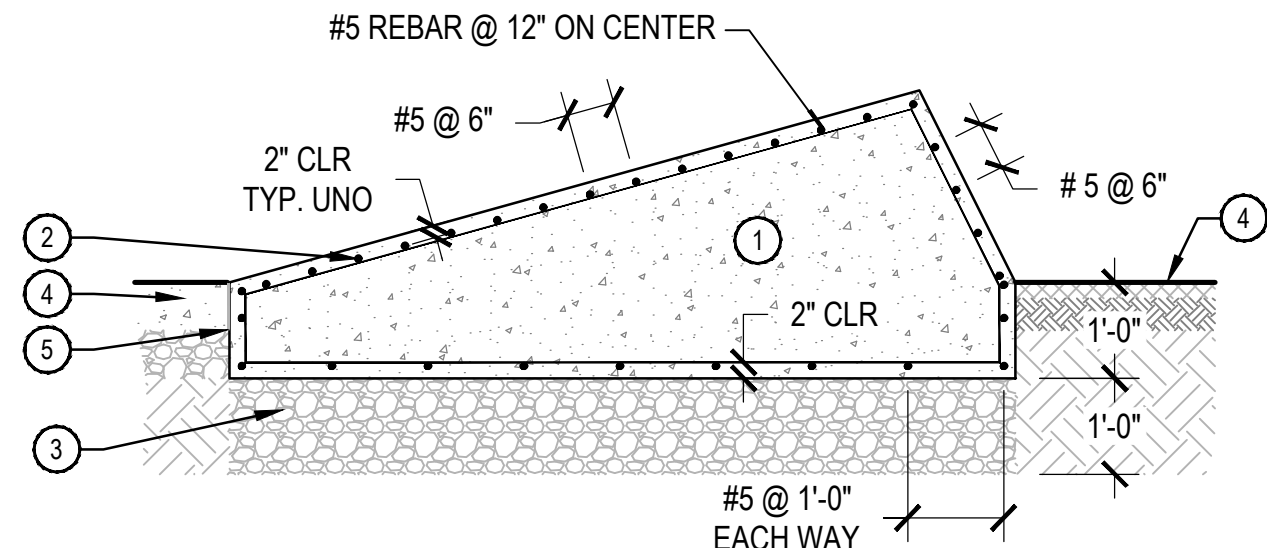


ELEVATION C



ELEVATION D

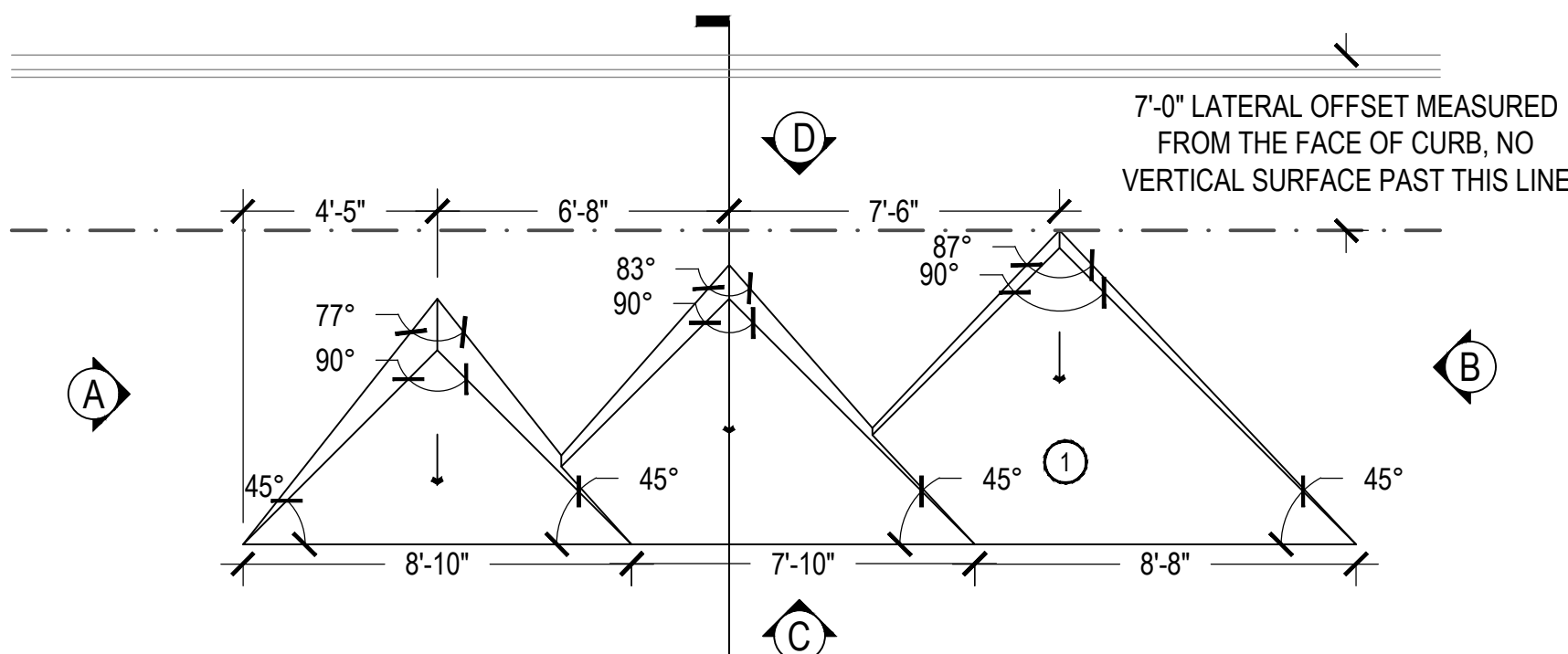
- NOTES:
- MIRRORED MOUNTAIN FEATURES OCCUR IN THE DESIGN. REFER TO PLANS AS TO THE LOCATION OF MIRRORED LAYOUT.
 - ALL EPOXY-COATED REBAR TO MEET AASHTO A 775 SPECIFICATIONS. CONCRETE SHALL BE TESTED TO HAVE A MINIMUM 4,500 PSI COMPRESSION AT 28 DAYS.
- ① COLORED CONCRETE, MATERIAL M-103, SHEET L-002
- ② #5 EPOXY-COATED REBAR, 2" CLEAR FROM SURFACE ON ALL SIDES REFER TO SPACING NOTES
- ③ CLASS 6 ROAD BASE, COMPACT TO 95% PROCTOR DENSITY
- ④ ADJACENT LANDSCAPE OR HARDSCAPE, REFER TO PLANS
- ⑤ EXPANSION JOINT, DETAIL 1 / L-506



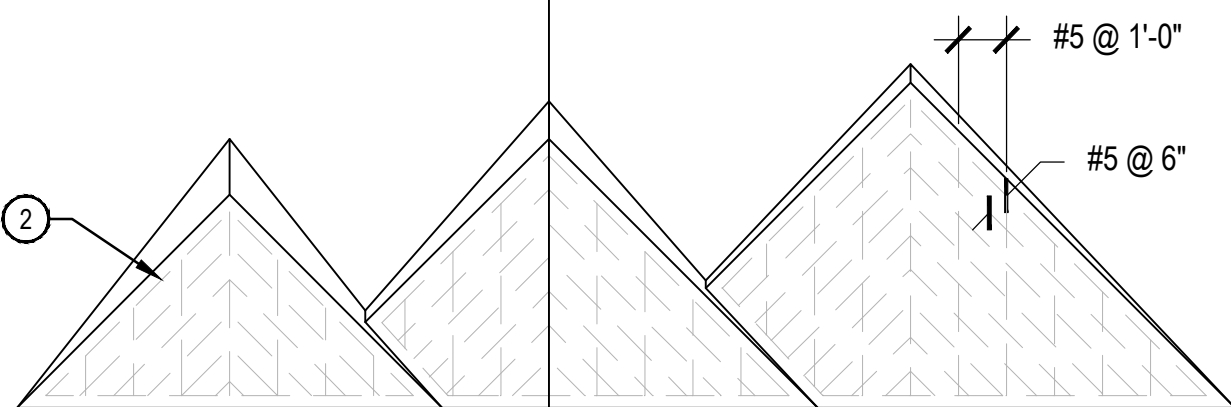
SECTION E
1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

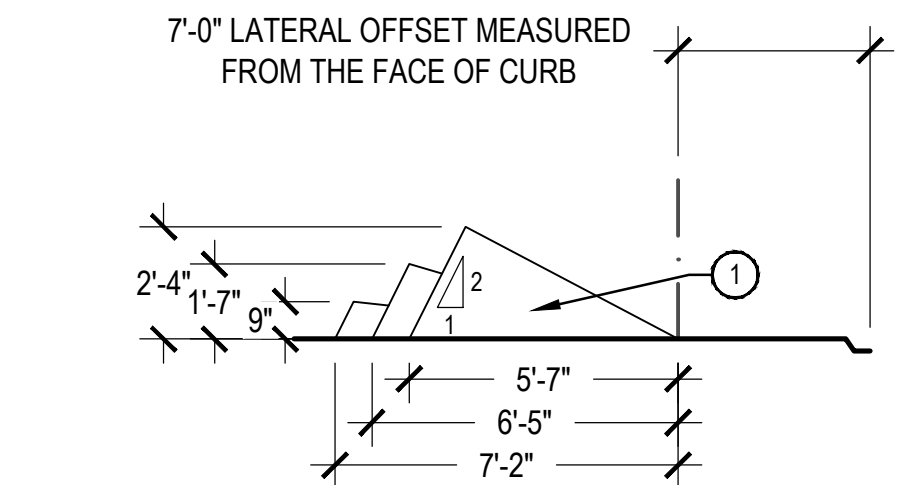
1 MOUNTAIN FEATURE



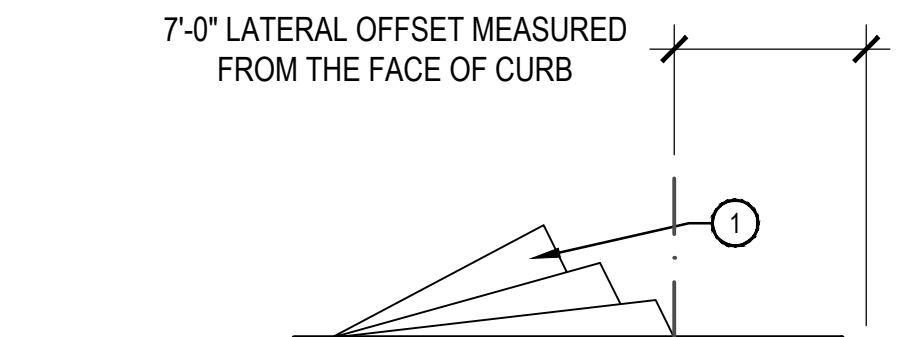
PLAN



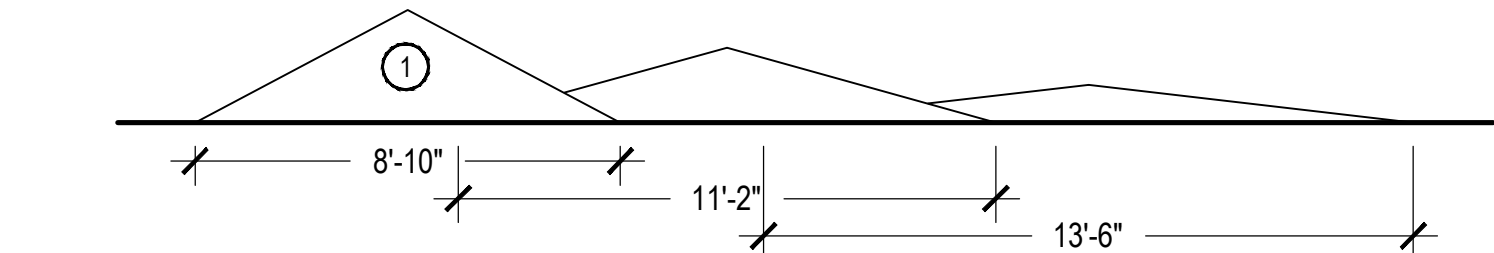
PLAN



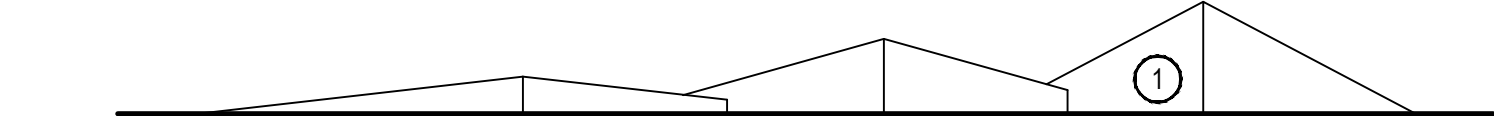
ELEVATION A



ELEVATION B

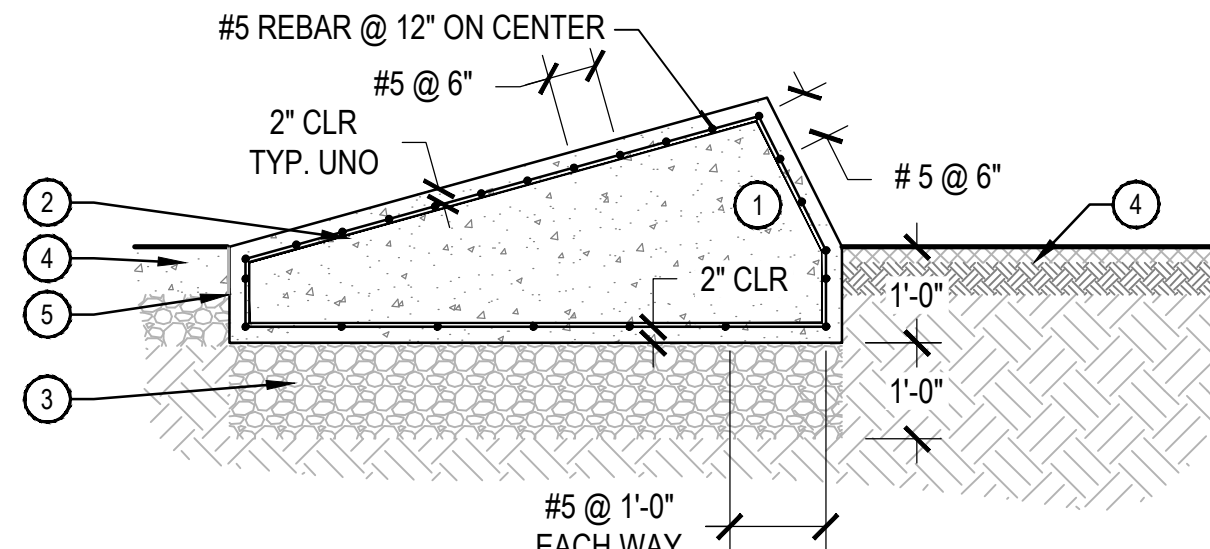


ELEVATION C



ELEVATION D

- NOTES:
- MIRRORED MOUNTAIN FEATURES OCCUR IN THE DESIGN. REFER TO PLANS AS TO THE LOCATION OF MIRRORED LAYOUT.
 - ALL EPOXY-COATED REBAR TO MEET AASHTO A 775 SPECIFICATIONS. CONCRETE SHALL BE TESTED TO HAVE A MINIMUM 4,500 PSI COMPRESSION AT 28 DAYS.
- ① COLORED CONCRETE, MATERIAL M-103, SHEET L-002
- ② #5 EPOXY-COATED REBAR, 2" CLEAR FROM SURFACE ON ALL SIDES REFER TO SPACING NOTES
- ③ CLASS 6 ROAD BASE, COMPACT TO 95% PROCTOR DENSITY
- ④ ADJACENT LANDSCAPE OR HARDSCAPE, REFER TO PLANS
- ⑤ EXPANSION JOINT, DETAIL 1 / L-506



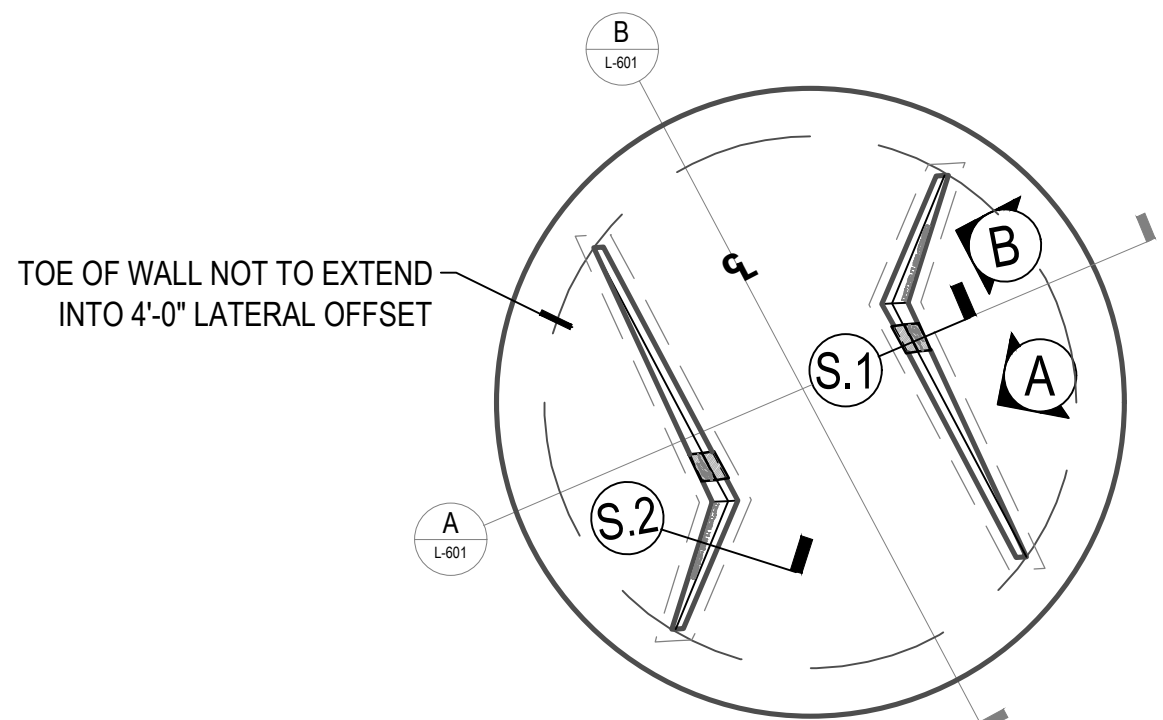
SECTION E
1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

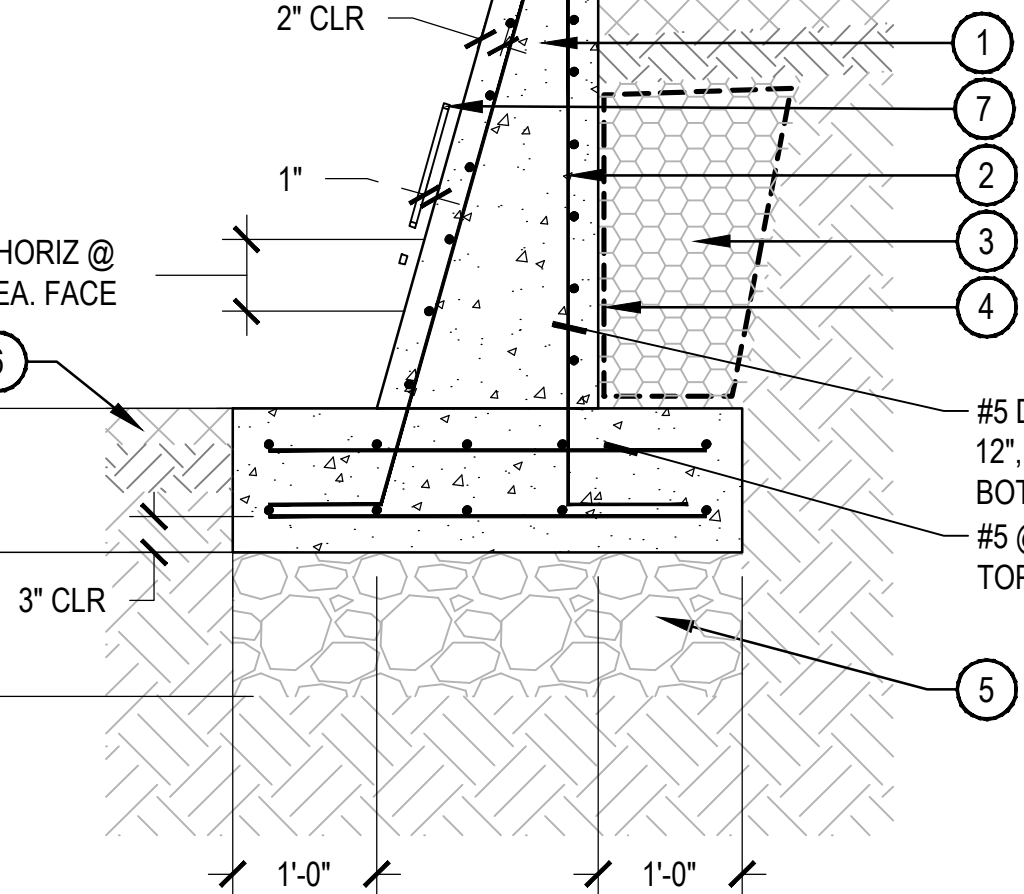
2 SMALL MOUNTAIN FEATURE

- 1 STANDARD CONCRETE, FLOAT FINISH
- 2 #5 EPOXY-COATED REBAR, REFER TO DETAIL NOTES FOR SPACING AND CLEAR SPACE
- 3 3/4" - 1 1/2" WASHED FREE DRAINING AGGREGATE
- 4 MARAFI 140 NL FILTER FABRIC OR APPROVED EQUAL, WRAP AND SURROUND THE ENTIRE DRAINAGE COURSE, 12" MINIMUM OVERLAY ON JOINTS
- 5 12" DEPTH CLASS 6 ROAD BASE, COMPACT TO 95% PROCTOR DENSITY
- 6 ADJACENT LANDSCAPE BEDS, REFER TO PLANS
- 7 1.5" DEPTH ALUMINUM MONUMENT SIGNAGE, PIN MOUNTED TO WALL. LED HALO LIGHTING TO BE HIDDEN AND RECESSED WITHIN SIGNAGE, DARK SKY COMPLIANT, 3500K AND WIRING SHALL BE HIDDEN TO THE GREATEST EXTENT POSSIBLE. CARDINAL POWDER COAT, RUST TEXTURE T091-BR47
- 8 3/8" COR-TEN STEEL SIGN WRAP WITH 3500K LED LIGHTING. SIGN LIGHTING TO BE DESIGNED BY SIGN FABRICATOR, LIGHTING TO BE FULL CUTOFF AND DARK SKY COMPLIANT, PIN MOUNT OR STAND OFF DESIGN BY SIGN FABRICATOR, MOUNTING SHALL BE DESIGNED TO MINIMIZE SHADOWS CAST ON THE WALL

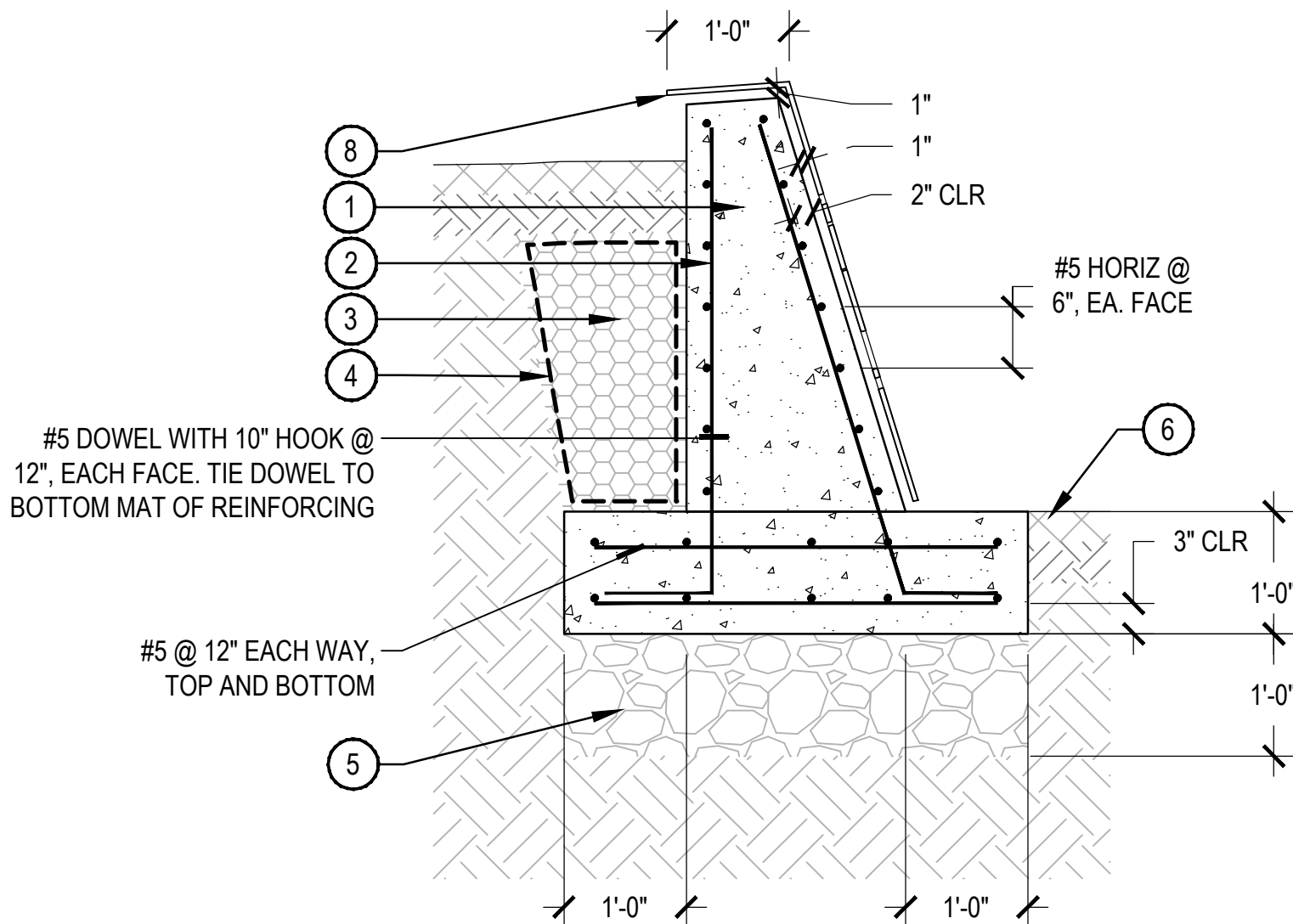
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE AND ELECTRICAL DETAILS. OWNERS REPRESENTATIVE TO PROVIDE ELECTRONIC FILE FOR SIGN LETTERING



WALL AND SECTION DIAGRAM



SECTION S.2 / L-504



SECTION S.1 / L-504

NOTES:

1. ALL EPOXY-COATED REBAR TO MEET AASHTO A 775 SPECIFICATIONS.
2. CONCRETE SHALL BE TESTED TO HAVE A MINIMUM 4,500 PSI COMPRESSION AT 28 DAYS.
3. OWNERS REPRESENTATIVE TO PROVIDE VECTOR ART FOR SIGN LETTERING.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL SIGNAGE AND LIGHTING.
5. TOE OF WALLS ABOVE GROUND MUST BE LOCATED OUTSIDE OF THE 4'-0" LATERAL OFFSET.

PLAN A

ELEVATION A

PLAN B

ELEVATION B

ELEVATION B
SIGN LAYOUT

1 ROUNDABOUT A WALL

SCALE: 3/4" = 1'-0"

PROJECT NUMBER: 0350-01-2009
FRISCO, COLORADO

OWNER:
TOWN OF FRISCO
1 EAST MAIN STREET
FRISCO, CO 80443
970.668.5276

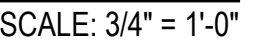
NOT FOR
CONSTRUCTION

DATE:

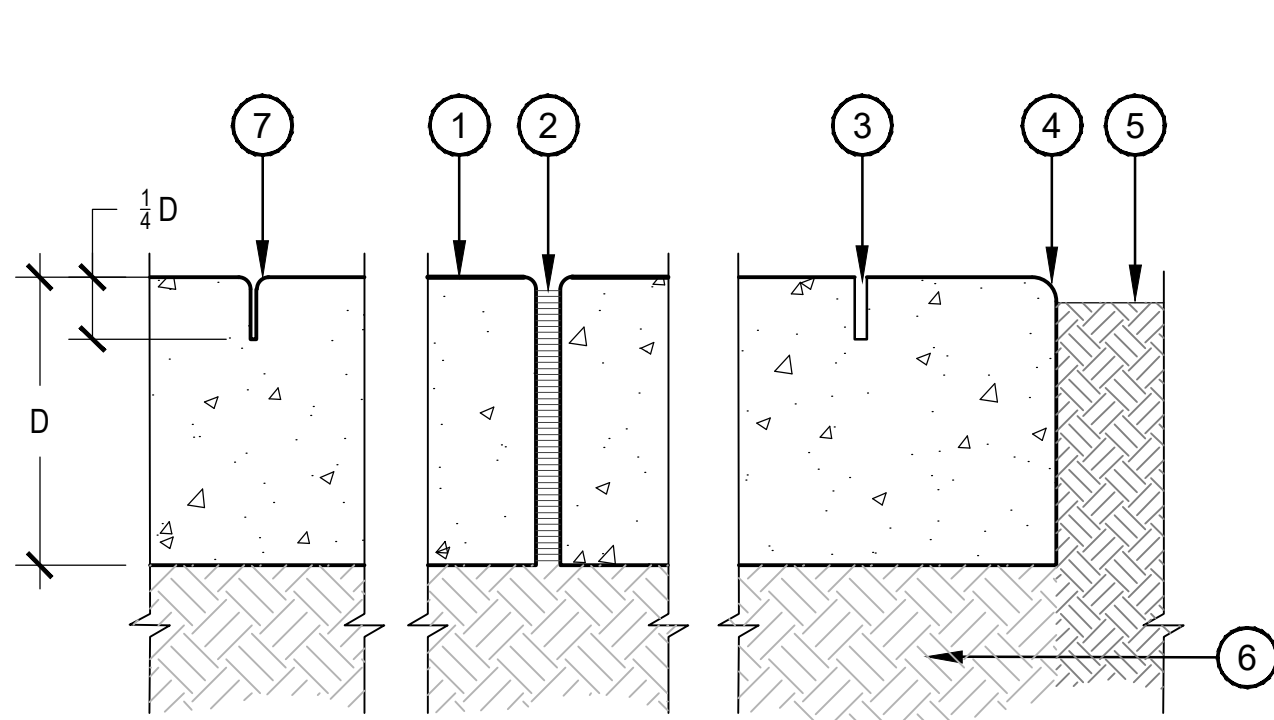
2/24/23: CDOT PRMT
3/08/23: BID SET

SHEET TITLE:
LANDSCAPE
DETAILS

-505



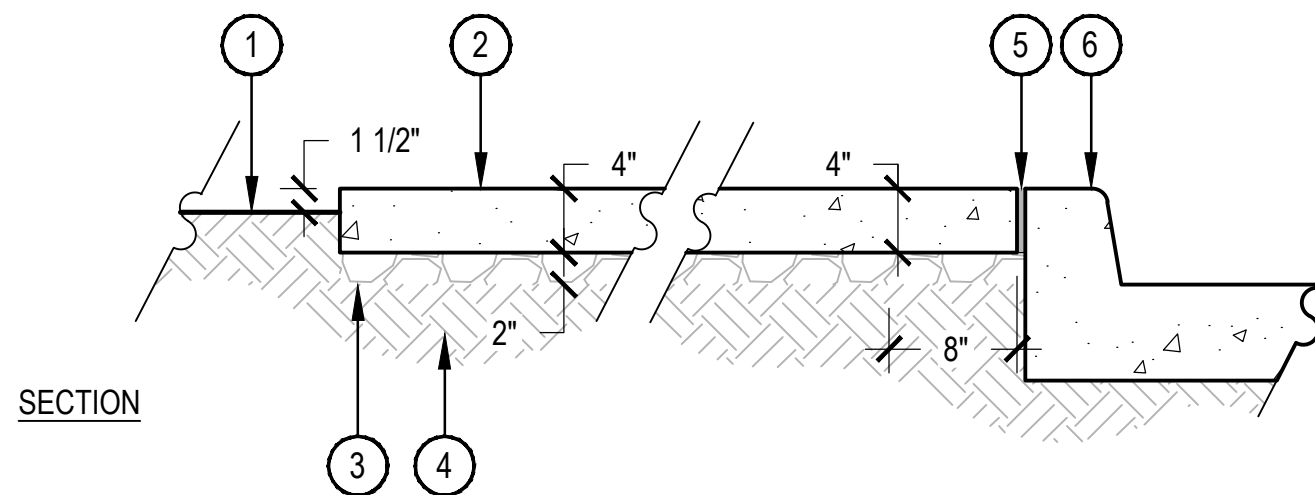
CHECKED BY: MT
DRAWN BY: AR



NOTES:

1. CAST IN PLACE CONCRETE PER PLANS AND SPECIFICATIONS.
2. CONTROL JOINTS SHALL BE SPACED 8' ON CENTER. ALIGN CONTROL JOINTS WITH CORNERS WHERE POSSIBLE.
3. EXPANSION JOINTS EVERY 12' ON CENTER MAXIMUM, BETWEEN SEPARATE POURS, OR WHERE NOTED. SPACE JOINTS EQUALLY.

1. CONCRETE PAVING FINISH AS NOTED ON PLANS
2. FIBER EXPANSION JOINT W/ TRAFFIC SEALANT
3. SAW CUT JOINT, 1/8" x 2" DEPTH. DRY CUT JOINT TO AVOID SPALLING. JOINTS SHALL BE CUT BETWEEN 24-48 HOURS OF INSTALLATION
4. 1/4" RADIUS TOOL EDGE
5. FINISHED GRADE OF LANDSCAPE AREA. BACKFILL AFTER FORM REMOVAL.
6. COMPACTED SUBGRADE, 95% STANDARD PROCTOR DENSITY - SEE GEOTECHNICAL REPORT FOR FURTHER INFORMATION
7. 1/8" RADIUS



NOTES:

1. PROVIDE A 25 SF MOCK-UP OF CONCRETE PAVING FOR EACH FINISH SPECIFIED. MOCK-UP SHALL INCLUDE CONTROL JOINTS. MOCK-UP NOT REQUIRED FOR STANDARD BROOM FINISH.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
3. EXPANSION JOINTS AT 200' ON CENTER MAXIMUM OR BETWEEN SEPARATE POURS.
4. CONTROL JOINTS EVERY 8' ON CENTER MAXIMUM.

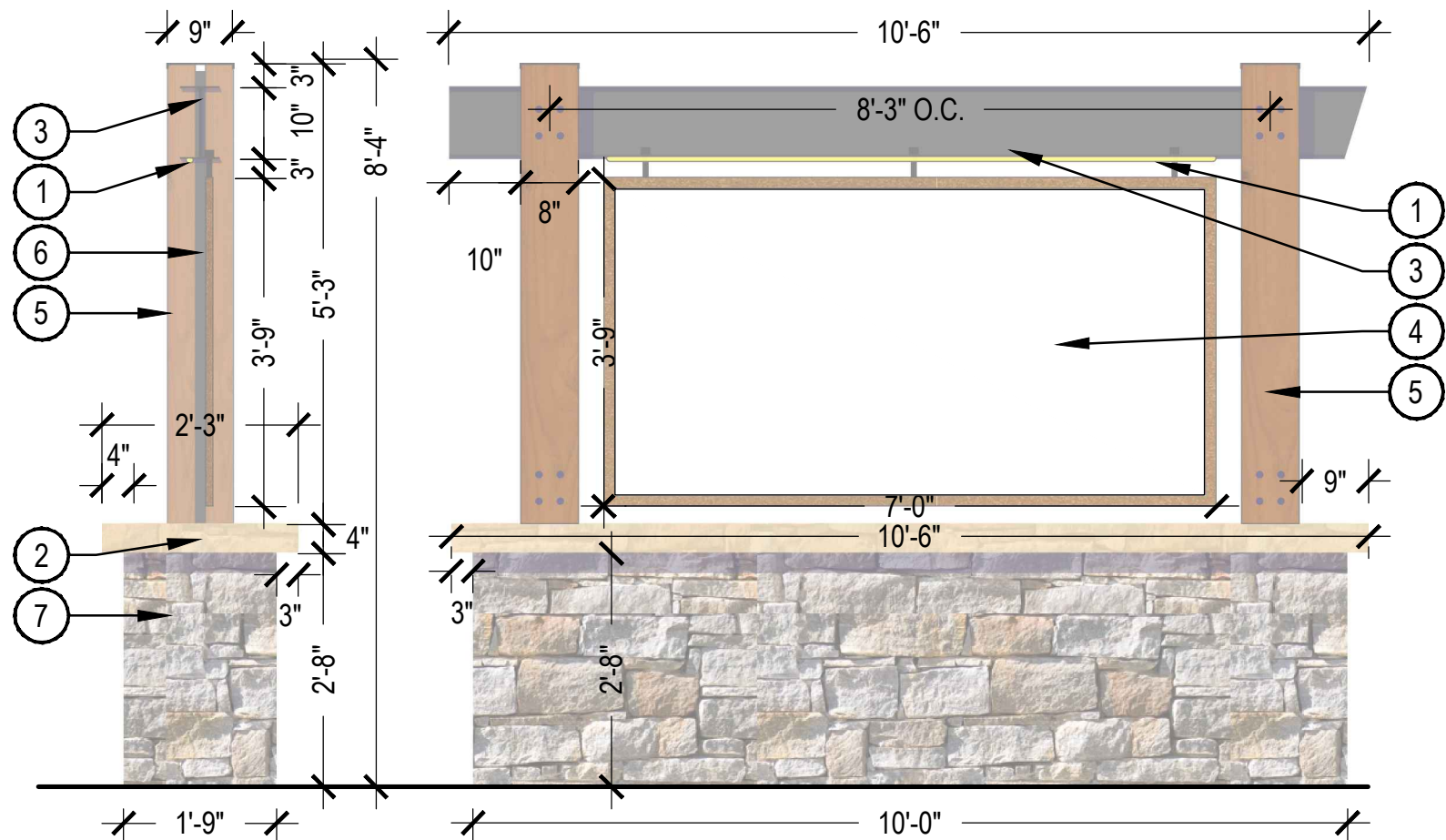
1. ADJACENT LANDSCAPE, REFER TO LANDSCAPE PLANS
2. 4" CONCRETE SLAB, REFER TO PLANS FOR LOCATION, MATERIAL TYPE AND DIMENSIONS, REFER TO MATERIAL SCHEDULE SHEET L-002 FOR FINISH
3. AGGREGATE BASE; SEE TYPICAL SECTION, DETAIL 5, SHEET L-502
4. SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY
5. EXPANSION JOINT; SEE TYPICAL SECTION, DETAIL 1, SHEET L-506
6. ADJACENT PAVING OR CURB, FLUSH WITH CONCRETE PAVING, REFER TO HARDSCAPE PLANS

1 CONCRETE JOINT

SCALE: 3" = 1'-0"

2 CONCRETE PAVING

SCALE: 1" = 1'-0"



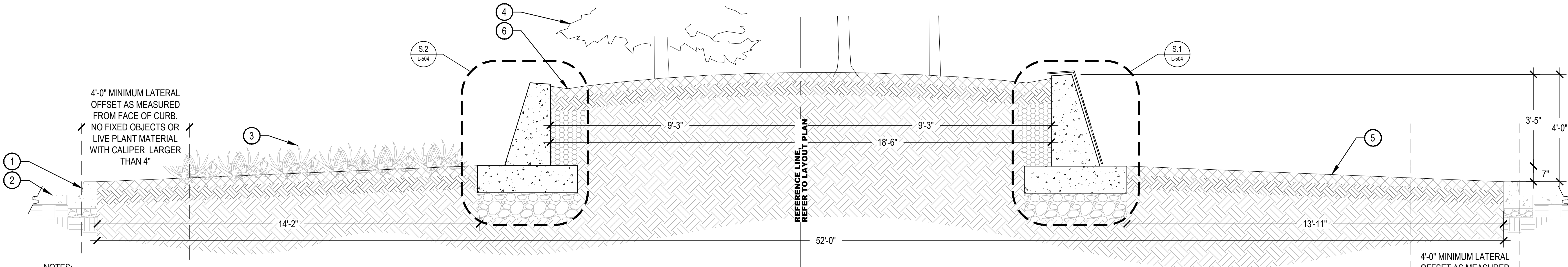
NOTES:

1. DETAIL PROVIDED FOR DESIGN INTENT ONLY. FINAL SIGN DESIGN AND STRUCTURE TO BE COMPLETED BY A SIGN FABRICATOR AND LICENSED STRUCTURAL ENGINEER.
2. CONTRACTOR TO PROVIDE COMPLETED SHOP DRAWINGS WITH NECESSARY STRUCTURAL AND ELECTRICAL STAMPS PER JURISDICTIONAL REQUIREMENTS FOR REVIEW BY OWNERS REPRESENTATIVE BEFORE CONSTRUCTION.
3. ALL LIGHTING TO BE FULL CUT OFF, DARK SKY COMPLIANT, AND WARM 2800-3200K LED. SIGN LETTERING TO BE INTERCHANGEABLE. SIGN FABRICATOR TO DESIGN AN DISCRETE SYSTEM FOR CHANGING THE SIGN MESSAGE AS NEEDED.

1. LED STRIPE LIGHT, LIGHT TO BE ATTACHED TO BOTTOM OF I-BEAM. WIRING TO BE HIDDEN.
2. 4" THICK SILOAM STONE CAP
3. 10" I BEAM, POWDER COAT BLACK
4. INTERCHANGEABLE SIGN PANEL OR POSTER BY TOWN. SIGN CONTRACTOR TO PROVIDE NECESSARY MOUNTING HARDWARE AND CONNECTIONS
5. 4X8 CEDAR POST WITH STEEL STRUCTURAL CORE MATCHING FRISCO STREET LIGHTS, STAIN TO MATCH TOWN OF FRISCO STANDARD. CEDAR POST TO HAVE METAL CAP, POWDER COAT BLACK TO MATCH.
6. "CORTEN" LOOK POWDER COATED METAL SIGN FRAME TO BE HUNG FROM I-BEAM
7. THIN VENEER SILOAM STONE PODIUM, INTERNAL STRUCTURE AND FOOTING TO BE DESIGNED BY THE SIGN CONTRACTOR.

3 CONCEPTUAL ENTRY SIGN

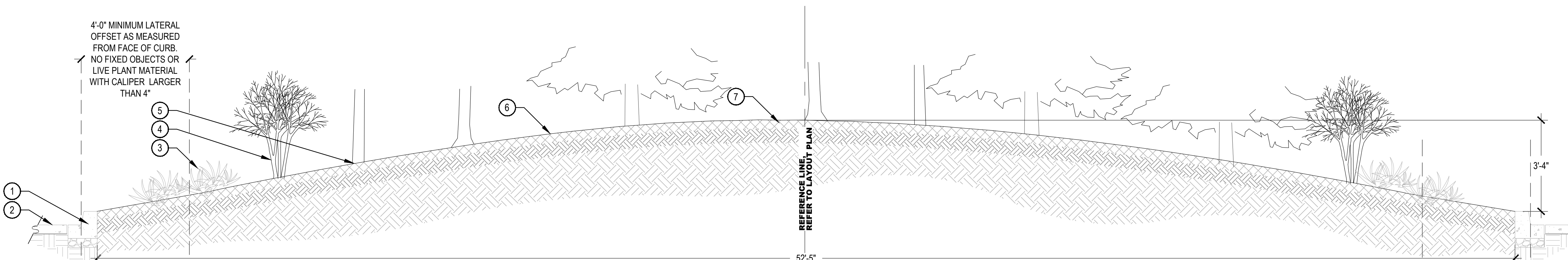
SCALE: 1/2" = 1'-0"



- NOTES:
1. SECTIONS PROVIDED TO GIVE MORE INFORMATION ABOUT THE VERTICAL ELEVATIONS OF THE ROUNDABOUT DESIGNS.
 2. WALL SECTIONS ARE PROVIDED IN THE ASSOCIATED DETAILS.

A ROUNDABOUT A - SECTION A - A'

SCALE: 1/2" = 1'-0"



- NOTES:
1. SECTIONS PROVIDED TO SHOW MORE INFORMATION ABOUT THE VERTICAL ELEVATIONS OF THE INTERIOR ROUNDABOUT DESIGNS.

B ROUNDABOUT A - SECTION B - B'

SCALE: 1/2" = 1'-0"

OWNER:
TOWN OF FRISCO
1 EAST MAIN STREET
FRISCO, CO 80443
970.668.5276



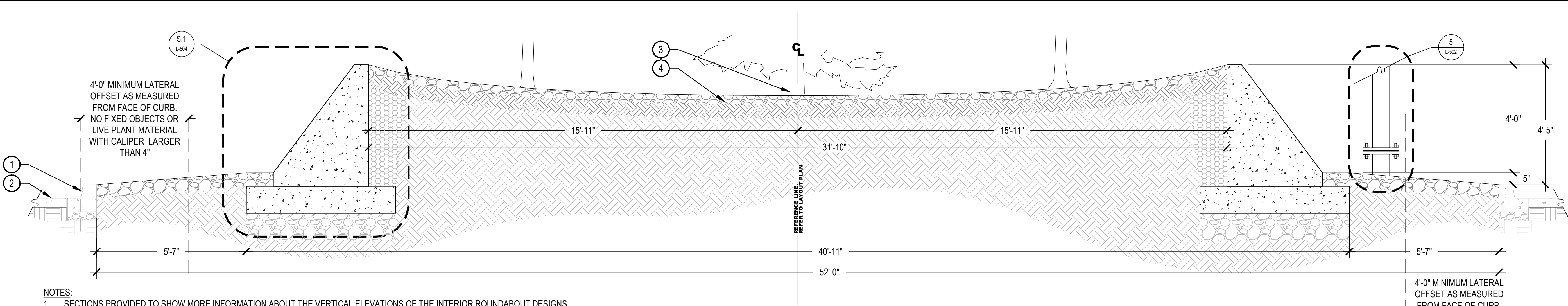
B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

NOT FOR
CONSTRUCTION

DATE:

02/24/23: CDOT PRMT
03/08/23: BID SET

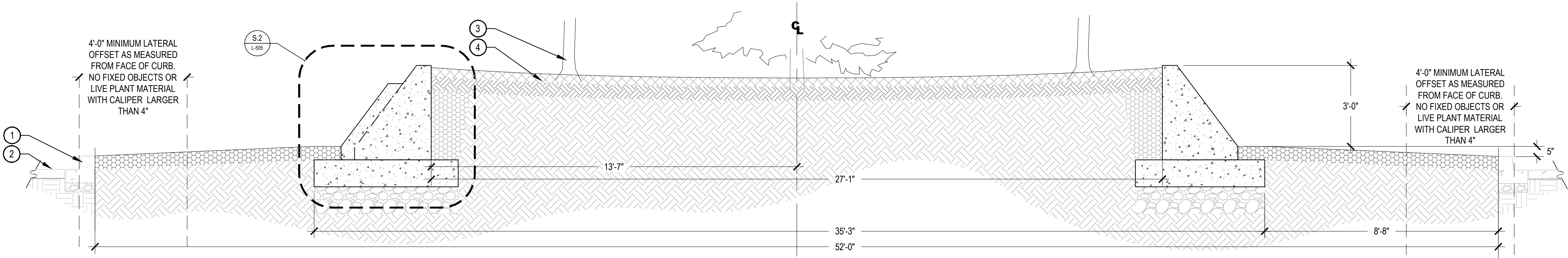
SHEET TITLE:
LANDSCAPE
SECTIONS



NOTES:
1. SECTIONS PROVIDED TO SHOW MORE INFORMATION ABOUT THE VERTICAL ELEVATIONS OF THE INTERIOR ROUNDABOUT DESIGNS.

C ROUNDABOUT B - SECTION C - C'

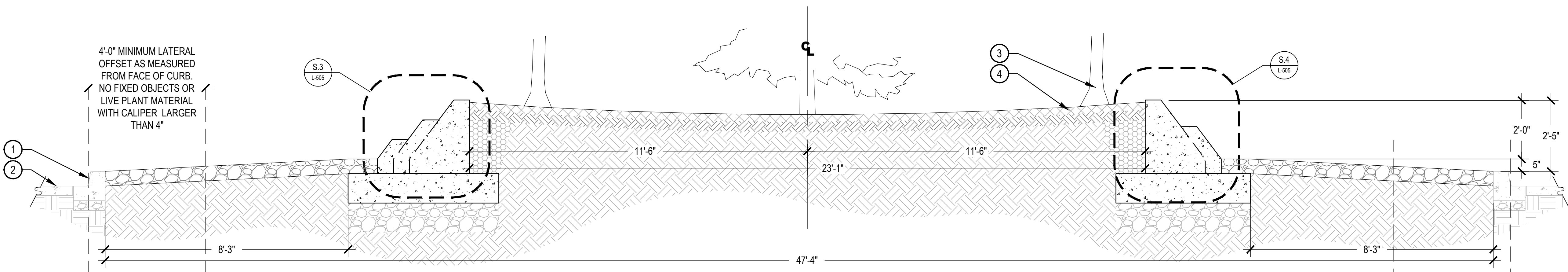
SCALE: 1/2" = 1'-0"



NOTES:
1. SECTIONS PROVIDED TO SHOW MORE INFORMATION ABOUT THE VERTICAL ELEVATIONS OF THE INTERIOR ROUNDABOUT DESIGNS.

D ROUNDABOUT B - SECTION D - D'

SCALE: 1/2" = 1'-0"



NOTES:
1. SECTIONS PROVIDED TO SHOW MORE INFORMATION ABOUT THE VERTICAL ELEVATIONS OF THE INTERIOR ROUNDABOUT DESIGNS.

E ROUNDABOUT B - SECTION E - E'

SCALE: 1/2" = 1'-0"

- 1 EXISTING INTERIOR LANDSCAPE CURB
- 2 EXISTING 20' WIDE TRUCK APRON
- 3 TREE PLANTING, DETAIL 1/ L-501
- 4 LANDSCAPE MATERIALS, REFER TO PLANS

- 1 EXISTING INTERIOR LANDSCAPE CURB
- 2 EXISTING 20' WIDE TRUCK APRON
- 3 TREE PLANTING, DETAIL 1/ L-501
- 4 LANDSCAPE MATERIALS, REFER TO PLANS

- 1 EXISTING INTERIOR LANDSCAPE CURB
- 2 EXISTING 20' WIDE TRUCK APRON
- 3 TREE PLANTING, DETAIL 1/ L-501
- 4 LANDSCAPE MATERIALS, REFER TO PLANS



B.L.H. PE stamp and signature
applicable only to roadside
safety and sight distance.

NOT FOR
CONSTRUCTION

DATE:

02/24/23: CDOT.PRMT
03/08/23: BID SET

SHEET TITLE:
LANDSCAPE
SECTIONS

L-602