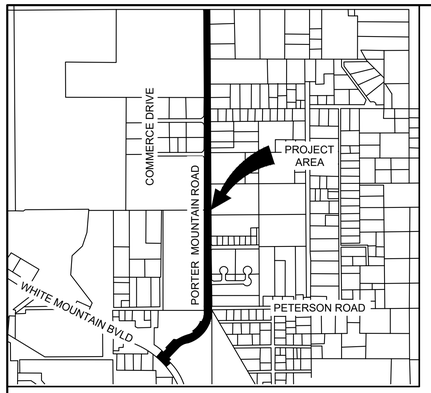
TOWN OF PINETOP-LAKESIDE

PORTER MOUNTAIN ROAD IMPROVEMENTS

NAVAJO COUNTY, AZ

A PORTION OF SECTION 23, TOWNSHIP 9 NORTH, RANGE 22 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, NAVAJO COUNTY, ARIZONA



VICINITY MAP
NTS

NORTH

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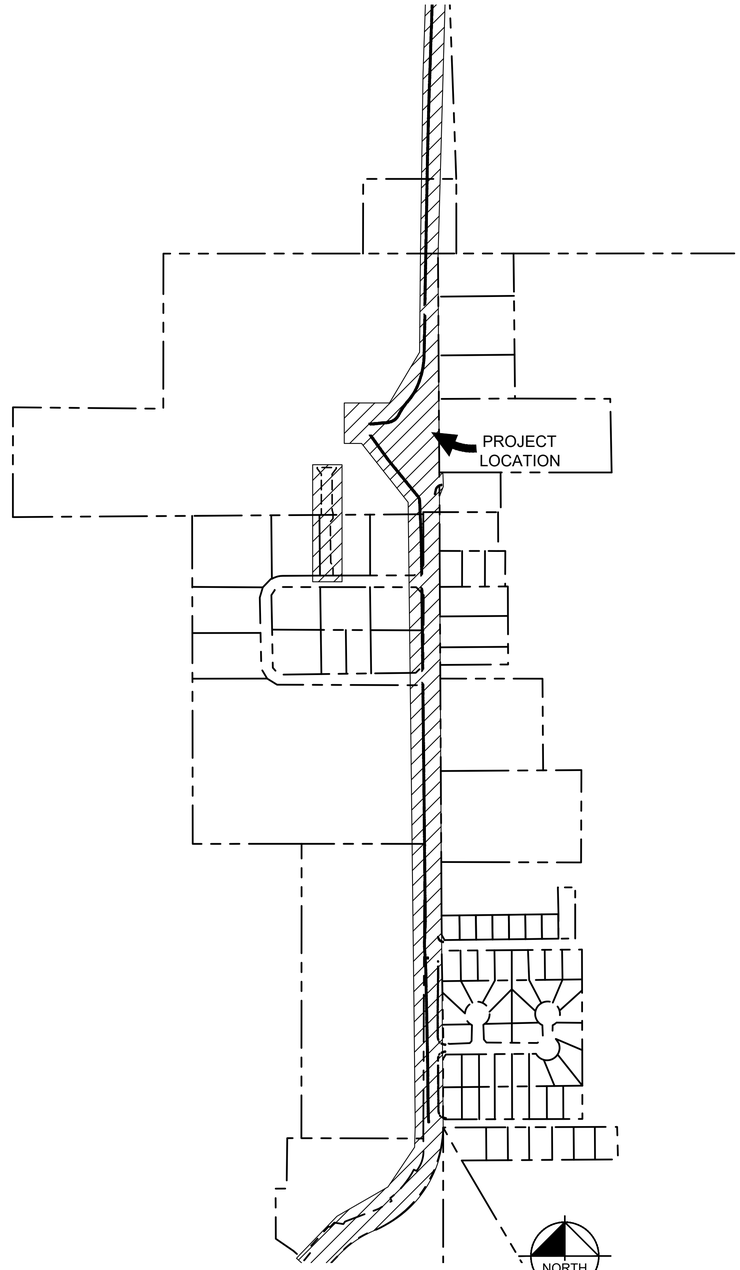


LOCATION MAP
NTS

OWNER

TOWN OF PINETOP LAKESIDE
325 W. WHITE MOUNTAIN BLVD
LAKESIDE, AZ 85929
PHONE: (928) 368-8696
FAX: (928) 368-8528
CONTACT: MATT PATTERSON

ENGINEER

KIMLEY-HORN & ASSOCIATES, INC.
ANDREW BAIRD, P.E.
101 WEST GOODWIN, SUITE 303
PRESCOTT, AZ 86303
PHONE: (928) 458-7121
ANDREW.BAIRD@KIMLEY-HORN.COM

TOWN COUNCIL

STERLING BEUS
JERRY SMITH
JAMES BRIMHALL
TABER HEISLER
LYNN KRIGBAUM
JIM SNITZER

MAYOR

STEPHANIE IRWIN

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE EAST, DETERMINED BY GPS OBSERVATIONS.

BENCH MARK

A NGS METAL ROD DRIVEN INTO GROUND DESIGNATION Q 502, LABELED "Q502 1983" ON LID FOR MONUMENT WELL. SITE DIRECTIONS PER NGS DATA SHEET.

EL.= 6587.47 (NAVD-88 DATUM)

APPROVED BY

PUBLIC WORKS DIRECTOR — DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS - BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ARIZONA REGISTERED LAND SURVEYOR — DATE

ARIZONA REGISTRATION NUMBER

TELEPHONE NUMBER

UTILITY INFORMATION

COMPANY	CONTACT	TELEPHONE
ARIZONA WATER COMPANY 1669 W.WHITE MOUNTAIN BLVD LAKESIDE, ARIZONA 85929	LEE HETRICK	(928)368-6993
NAVOPACHE ELECTRIC COOPERATIVE 1878 W. WHITE MOUNTAIN BLVD LAKESIDE, ARIZONA 85929	WAYNE BOOHER	(928)368-5118
TIMBER MESA FIRE DISTRICT 3561 E. DEUCE OF CLUBS SHOW LOW, ARIZONA 85901	CHIEF RANDY CHEVALIER	(928)537-5100
FRONTIER COMMUNICATIONS 831 E. HALL STREET SHOW LOW, ARIZONA 85901	MARK JEFFERIES	(928)537-6667
PINETOP-LAKESIDE SANITARY DISTRICT 2600 W. ALISA LAKESIDE, ARIZONA 85929	DAVE SMITH	(928)368-5370
LAKESIDE IRRIGATION PO BOX 295 LAKESIDE, ARIZONA 85929	DON HANSEN	(928)368-6254
BLUE STAKE - CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-STAKE-IT outside Maricopa County	CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-STAKE-IT 1-800-782-5348 (OUTSIDE MARICOPA COUNTY)	

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
COVER SHEET
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO. 291056010

DRAWING NAME CV01

ENGINEER'S DESIGN NOTES

1. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO ACTUAL SITE CONDITIONS, AND EARTHWORK QUANTITIES. NO CLAIM SHALL BE MADE AGAINST THE DESIGN ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
2. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER. ON-SITE GRADING SHALL BE BALANCED AT ROUGH GRADE INCLUDING APPROPRIATE ALLOWANCE FOR RETAINING WALLS, FOUNDATION DIRT, TRENCH SPOILS AND FINISH GRADING MATERIAL.
3. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR SAFETY PRECAUTIONS OR PROGRAMS. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. ALL CONDUITS (BOX CULVERT, REINFORCED CONCRETE PIPE, DIP, PVC, HDPE, AND/OR CORRUGATED METAL PIPE, ETC.) SHOWN ON THESE PLANS ARE DESIGNED FOR STANDARD HIGHWAY LOADINGS. THE STANDARD SATISFACTORY MINIMUM COVER REQUIREMENTS AS ESTABLISHED BY THE CONDUIT MANUFACTURER MAY NOT ALWAYS BE ADEQUATE DURING CONSTRUCTION. WHEN CONSTRUCTION EQUIPMENT, FREQUENTLY HEAVIER THAN TRAFFIC LOADS FOR WHICH THE CONDUIT HAS BEEN DESIGNED, IS TO BE DRIVEN OVER OR CLOSE TO THE BURIED CONDUIT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE CONDUIT. THE ADEQUACY OF THE COVER REQUIREMENTS FOR CONDUITS SHALL BE ANALYZED AND CHECKED BY THE CONTRACTOR TO ADDRESS LOADING CONDITIONS IMPOSED BY CONSTRUCTION ACTIVITY, ANY CONDUIT DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE DIRECTIONAL SIGNAGE SHALL BE LOCATED OUT OF THE PEDESTRIAN AND AUTOMOBILE ROUTES, AND SHALL BE LOCATED BETWEEN THREE TO FIVE FEET BEHIND THE NEAREST BACK OF CURB. SIGN HEIGHT, LOCATION, AND STRUCTURE SHALL BE SUCH THAT THE SIGNS POSE NO THREAT TO PUBLIC SAFETY.
6. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE DIRECTIONAL SIGNAGE SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. FIELD ADJUSTMENTS OF LOCATION AND ORIENTATION OF THE SIGNS ARE TO BE MADE TO ACCOMPLISH THIS.
7. THE CONTRACTOR SHALL EXPOSE ALL REQUIRED UTILITY CONNECTION POINTS A MINIMUM OF 10 FEET TO VERIFY APPROPRIATE HORIZONTAL LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION STAKING. ANY VARIATION OF CONNECTION LOCATIONS FOUND IN THE FIELD SHALL BE REPORTED TO THE DESIGN ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION STAKING.
8. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATIONS AND INSTALLATIONS OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION.
10. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
11. THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER/DEVELOPER OR THE ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE ENGINEER UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE ENGINEER, THE STAKES ARE NOT REQUIRED TO CORRECT ANY ITEM OR IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
12. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS, ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
13. ANY INSPECTION BY THE CITY, COUNTY, OR THE ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE ALL NATIONAL AND LOCAL APPLICABLE CODES AND AGENCY REQUIREMENTS.
14. CONTRACTOR SHALL LOCATE ALL EXISTING PROPERTY MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
15. REMOVAL AND REPLACEMENT QUANTITIES ARE APPROXIMATE. THE EXACT LOCATION OF REMOVAL LIMITS SHALL BE VERIFIED IN THE FIELD AND APPROVED BY THE INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
17. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE EFFECTED ITEM.
18. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER AND ENGINEER. CONSTRUCTION SHALL NOT COMMENCE UNTIL THE DISCREPANCY, IF IDENTIFIED, IS RESOLVED TO THE OWNER'S AND ENGINEER'S SATISFACTION.
19. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
20. IN ACCORDANCE WITH AAC R18-4-119, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
21. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF AREAS OF SUSPECTED NON BLUE STAKED IDENTIFIED UTILITIES IN THE PROJECT AREA PRIOR TO COMMENCING CONSTRUCTION OR EXCAVATION. CONTRACTOR SHALL UTILIZE AN APPROVED SUBSURFACE INVESTIGATION METHOD BY THE OWNER, ENGINEER, AND JURISDICTION TO IDENTIFY UTILITY AND POTENTIAL CONFLICTS.
22. ALL WORK PERFORMED WITHOUT THE APPROVAL OF THE OWNER AND MATERIAL NOT IN CONFORMANCE WITH ALL NATIONAL AND LOCAL CODES AND SPECIFICATIONS ISSUED BY THE OWNER IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES

1. EXISTING UNDERGROUND UTILITIES SHOWN ARE PER TOWN OF PINETOP LAKESIDE AS-BUILTS. CONTRACTOR SHALL FIELD VERIFY LOCATION/ELEVATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING DAMAGE TO ANY EXISTING UTILITIES, FENCES, MONUMENTS, PAVING, LANDSCAPING OR OTHER STRUCTURES WHICH MAY BE IN CONFLICT WITH THE NEW CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SHORING AND BRACING TO PROTECT THESE STRUCTURES. ANY DAMAGED STRUCTURES SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.
3. CONTRACTOR SHALL NOTIFY PUBLIC WORKS DIRECTOR OF ANY DISCREPANCIES BETWEEN THE CIVIL PLANS AND SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN THE AFFECTED AREA.
4. ANY EXISTING LANDSCAPING DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY LIKE SIZE, TYPE, AND QUANTITY.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EMERGENCY VEHICLE ACCESS (E.V.A.) THROUGHOUT THE PROJECT SITE. E.V.A. ROADS AND SIGNAGE SHALL BE COORDINATED WITH THE PINETOP FIRE MARSHAL.
6. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES TO PREVENT DUST NUISANCES CAUSED BY CONSTRUCTION ACTIVITIES. DUST CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES.
7. THE CONTRACTOR SHALL MAINTAIN ON-SITE AT ALL TIMES A COPY OF THE CURRENT APPROVED PLANS, SPECIFICATIONS, AND PERMITS. ALL REFERENCED DOCUMENTS SHALL BE MADE AVAILABLE BY THE CONTRACTOR TO PINETOP-LAKESIDE UPON REQUEST.
8. INSPECTIONS SHALL BE SCHEDULED THROUGH THE PINETOP-LAKESIDE PUBLIC WORKS DEPARTMENT. CONTRACTOR SHALL CONTACT PUBLIC WORKS FOR MINIMUM NOTIFICATION TIMES. CONTACT PINETOP-LAKESIDE PUBLIC WORKS AT 928-368-8885.
9. CONTRACTOR SHALL CONTACT ARIZONA 811 FOR UTILITY LOCATING (EXCLUDING WATER AND SEWER FACILITIES) TWO(2) FULL WORKING DAYS PRIOR TO EXCAVATING. FOR WATER AND SEWER FACILITIES, THE CONTRACTOR SHALL CONTACT THE PINETOP-LAKESIDE PUBLIC WORKS AT 928-368-8885 AT LEAST FIVE(5) WORKING DAYS PRIOR TO EXCAVATING.
10. UTILITY AND OTHER UNDERGROUND WORK BACKFILLED OR COVERED WITHOUT PINETOP-LAKESIDE INSPECTION SHALL BE UNCOVERED AT CONTRACTOR EXPENSE.
11. TEMPORARY WATER SERVICE MAY BE AVAILABLE FROM PINETOP-LAKESIDE PUBLIC WORKS. CONTACT THE PINETOP-LAKESIDE PUBLIC WORKS DEPARTMENT FOR AVAILABILITY.
12. CONTRACTOR SHALL COORDINATE WITH THE PINETOP-LAKESIDE PUBLIC WORKS DEPARTMENT WHEN ARCHAEOLOGICAL MONITORING IS REQUIRED FOR EXCAVATING, TRENCHING OR EARTHWORK ACTIVITIES.
13. AGGREGATES, CEMENT, MORTAR PRODUCTS AND POZZOLAN (FLY ASH) REQUIRED FOR THIS PROJECT, WHETHER SEPARATE OR INCORPORATED INTO CONSTRUCTION PRODUCTS, SHALL BE OBTAINED FROM SALT RIVER MATERIALS GROUP (SRMG) AND VENDORS INCORPORATING SRMG MATERIALS IN THEIR PRODUCTS. REFER TO DIVISION 1 (GENERAL REQUIREMENTS) OF THE PROJECT MANUAL FOR LIST OF CURRENT PRODUCTS AND SOURCES.
14. CONTRACTOR SHALL MAINTAIN EXISTING IRRIGATION AND DRAINAGE FACILITIES WITHIN THE RIGHT-OF-WAY. COORDINATE ADJACENT WORK WITH THE PINETOP-LAKESIDE PUBLIC WORKS.
15. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PROGRAM, IF APPLICABLE. REFER TO DIVISION 1 (GENERAL REQUIREMENTS) OF THE PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE NOTICE OF INTENT (NOI) SHALL BE POSTED CONSPICUOUSLY AT A PUBLICLY ACCESSIBLE LOCATION. A CURRENT COPY OF THE STORM WATER PREVENTION POLLUTION PLAN (SWPPP) SHALL BE KEPT ON-SITE AND BE MADE AVAILABLE AT THE TIME OF ON-SITE INSPECTION BY EPA OR EPNR.
16. CONTRACTOR SHALL SUBMIT CERTIFIED REPRODUCIBLE "AS-BUILT" PLANS FOR APPROVAL PRIOR TO ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY. AS-BUILT DATA SHALL BE PROVIDED FOR ALL UNDERGROUND UTILITIES, DRAINAGE CONTROL POINTS, VOLUMES OF ALL RETENTION FACILITIES, AND FINISH FLOOR ELEVATIONS.

UTILITY NOTES

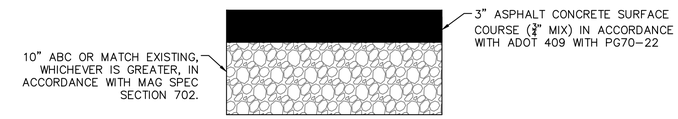
1. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING VALVES AND MANHOLES DURING CONSTRUCTION.

EARTHWORK & GRADING NOTES

1. CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION, CONDITION, AND CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING PRIOR TO GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DIRECTOR SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS.
2. CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL EXPLORATION REPORT PREPARED BY RICKER ATKINSON MCBEE MORMAN AND ASSOCIATES, INC. DATED JANUARY 22, 2019.

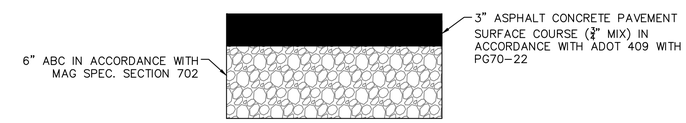
OFFSITE CONSTRUCTION NOTES:

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST VERSIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AND THE PINETOP-LAKESIDE SUPPLEMENT TO THE 2011 MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
2. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (TCP) TO THE PINETOP-LAKESIDE PUBLIC WORKS DEPARTMENT WHEN WORK IN THE ROADWAY OR ADJACENT TO THE ROADWAY MAY INTERFERE WITH VEHICULAR TRAFFIC. THE TCP SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST VERSION). THE CONTRACTOR SHALL FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.



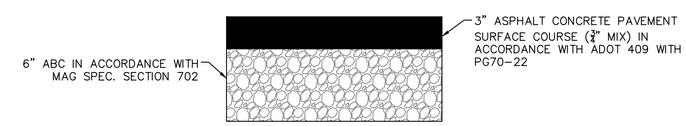
TOTAL THICKNESS = 13"

AC STRUCTURAL SECTION NO. 01



TOTAL THICKNESS = 9"

AC STRUCTURAL SECTION NO. 02



TOTAL THICKNESS = 9"

AC STRUCTURAL SECTION NO. 03

ABBREVIATIONS

AC	ACRES
A.Z.P.D.E.S.	ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AF	ACRE-FEET
ARCH	ARCHITECT
B/C	BACK OF CURB
BC	BACK OF CURB/ BRASS CAP
BLDG	BUILDING
BFP	BACK FLOW PREVENTER
BMP	BEST MANAGEMENT PRACTICE
BTM	BOTTOM
C	CONCRETE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
DET	DETAIL
D.D.	DIVERSION DIKE
DIA	DIAMETER
EA	EACH
ELEC	ELECTRIC
ESMT	EASEMENT
EXST	EXISTING
F/C	FACE OF CURB
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FF	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FG	FINISHED GRADE
FT	FOOT/FEET
G	GAS/GUTTER/GRATE
HH	HAND HOLE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
HW	HIGH WATER ELEVATION
INC.	INCORPORATED
INV	INVERT
I.P.	CURB INLET PROTECTION
LF	LINEAR FEET
LS	LANDSCAPE
M/E	MATCH EXISTING
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
N.A.P.	NOT A PART
N.O.I.	NOTICE OF INTENT
N.O.T.	NOTICE OF TERMINATION
N.P.D.E.S.	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM
NE	NORTHEAST
NG	NATURAL GROUND
NO.	NUMBER
N.T.S.	NOT TO SCALE
NW	NORTHWEST
O.C.	ON CENTER
P	PAVEMENT
POWR	POWER
PROP	PROPOSED
PROV	PROVIDED
P.U.E.	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R/W	RIGHT-OF-WAY
REF	REFERENCE
REQ	REQUIRED
RRFB	RECTANGULAR RAPID FLASHING BEACON
S	SOUTH OR SLOPE
SW	SIDEWALK
SE	SOUTHEAST
SF	SQUARE FEET
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
STD	STANDARD
SW	SOUTHWEST/SIDEWALK
SWMP	STORM WATER MANAGEMENT PLAN
SY	SQUARE YARDS
TELE	TELEPHONE
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASMENT
TP	TOP OF PAVEMENT
TF	TOP OF FOOTING
TW	TOP OF WALL
TYP	TYPICAL
UPC	UNIFORM PLUMBING CODE
W	WEST
W/	WITH
WT	WATER

LEGEND

- 5520 — EXISTING CONTOUR
- EXISTING STORM DRAIN
- EXISTING PROPERTY LINE
- EXISTING PAVEMENT MARKING
- SAWCUT LINE
- PROPOSED PAVEMENT MARKING
- 5520 — PROPOSED CONTOUR
- EXISTING GRAVEL
- PROPOSED AC PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- PROPOSED SHARED USE PATH
- REMOVE CONCRETE SIDEWALK
- REMOVE ASPHALT PAVEMENT
- REMOVE ROCK WALL
- EXISTING UTILITIES
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- SS EXISTING MANHOLE
- EXISTING SIGN
- SURVEY BENCHMARK

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

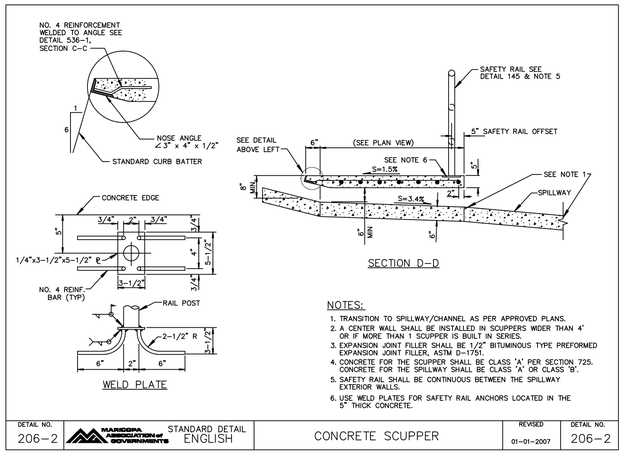
SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
GENERAL NOTES
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/23/24
ARIZONA, U.S.A.

PROJECT NO. 291056010

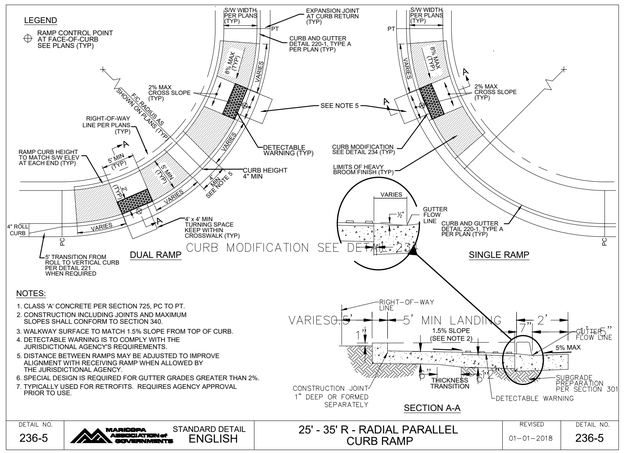
DRAWING NAME GN01



NOTES:

1. TRANSITION TO SPILLWAY/CHANNEL AS PER APPROVED PLANS.
2. A CENTER WALL SHALL BE INSTALLED IN SCUPPERS WIDER THAN 4' OR IF MORE THAN 1 SCUPPER IS BUILT IN SERIES.
3. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, ASTM D-1751.
4. CONCRETE FOR THE SCUPPER SHALL BE CLASS 'A' PER SECTION 725. CONCRETE FOR THE SPILLWAY SHALL BE CLASS 'A' OR CLASS 'B'.
5. SAFETY RAIL SHALL BE CONTINUOUS BETWEEN THE SPILLWAY EXTERIOR WALLS.
6. USE WELD PLATES FOR SAFETY RAIL ANCHORS LOCATED IN THE 5" THICK CONCRETE.

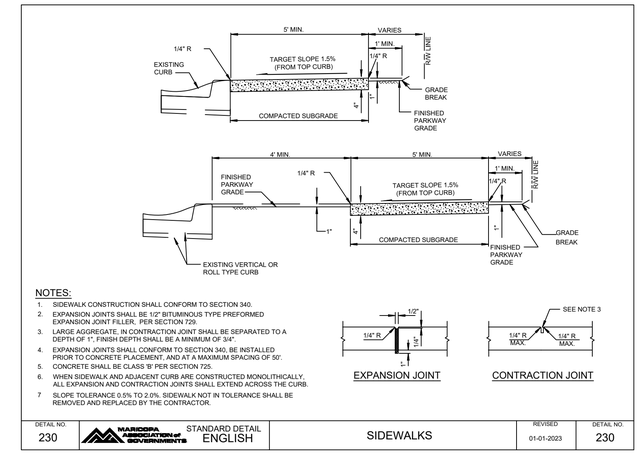
DETAIL NO.			REVISED	DETAIL NO.
206-2	MARICOPA ASSOCIATION of GOVERNMENTS — STANDARD DETAIL ENGLISH	CONCRETE SCUPPER	01-01-2007	206-2



NOTES:

1. CLASS 'A' CONCRETE PER SECTION 725, PC TO PT.
2. CONSTRUCTION INCLUDING JOINTS AND MAXIMUM SLOPES SHALL CONFORM TO SECTION 340.
3. WALKWAY SURFACE TO MATCH 1.5% SLOPE FROM TOP OF CURB.
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
5. DISTANCE BETWEEN RAMPS MAY BE ADJUSTED TO IMPROVE ALIGNMENT WITH RECEIVING RAMP WHEN ALLOWED BY THE JURISDICTIONAL AGENCY.
6. SPECIAL DESIGN IS REQUIRED FOR GUTTER GRADES GREATER THAN 2%.
7. TYPICALLY USED FOR RETROFITS. REQUIRES AGENCY APPROVAL PRIOR TO USE.

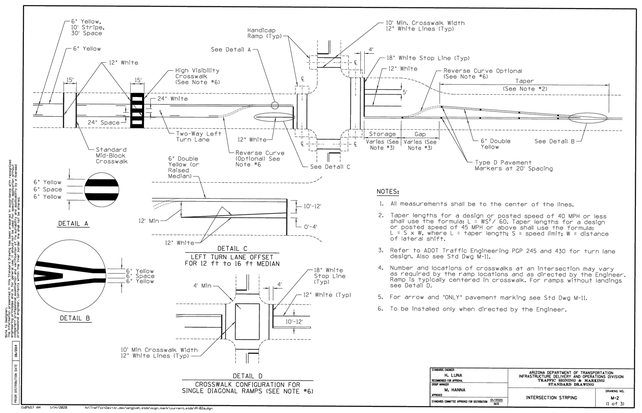
DETAIL NO.			REVISED	DETAIL NO.
236-5	MARICOPA ASSOCIATION of GOVERNMENTS — STANDARD DETAIL ENGLISH	25' - 35' R - RADIAL PARALLEL CURB RAMP	01-01-2018	236-5



NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 340.
2. EXPANSION JOINTS SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER. PER SECTION 729.
3. LARGE AGGREGATE, IN CONTRACTION JOINT SHALL BE SEPARATED TO A DEPTH OF 1". FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINTS SHALL CONFORM TO SECTION 340, BE INSTALLED PRIOR TO CONCRETE PLACEMENT, AND AT A MAXIMUM SPACING OF 50'.
5. CONCRETE SHALL BE CLASS 'B' PER SECTION 725.
6. WHEN SIDEWALK AND ADJACENT CURB ARE CONSTRUCTED MONOLITHICALLY, ALL EXPANSION AND CONTRACTION JOINTS SHALL EXTEND ACROSS THE CURB.
7. SLOPE TOLERANCE 0.5% TO 2.0%. SIDEWALK NOT IN TOLERANCE SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR.

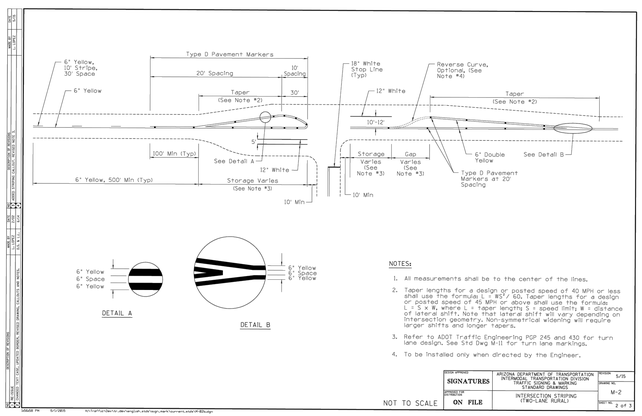
DETAIL NO.			REVISED	DETAIL NO.
230	MARICOPA ASSOCIATION of GOVERNMENTS — STANDARD DETAIL ENGLISH	SIDEWALKS	01-01-2023	230



NOTES:

1. All measurements shall be to the center of the lines.
2. Taper lengths for a design or posted speed of 40 MPH or less shall use the formula: $L = WS^2/60$. Taper lengths for a design or posted speed of 45 MPH or above shall use the formula: $L = S \times W$, where L = taper length; S = speed limit; W = distance of lateral shift.
3. Refer to ADOT Traffic Engineering PGP 245 and 430 for turn lane design. Also see Std Dwg M-11.
4. Number and locations of crosswalks at an intersection may vary as required by the ramp locations and as directed by the Engineer. Ramp is typically centered in crosswalk, for ramps without landings see Detail D.
5. For arrow and "ONLY" pavement marking see Std Dwg M-11.
6. To be installed only when directed by the Engineer.

DRAWN BY	DESIGNED BY	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC ENGINEERING & MANAGEMENT STANDARD DRAWING	DRAWING NO.
K. LUNA	M. HANNA	INTERSECTION STRIPING	M-2

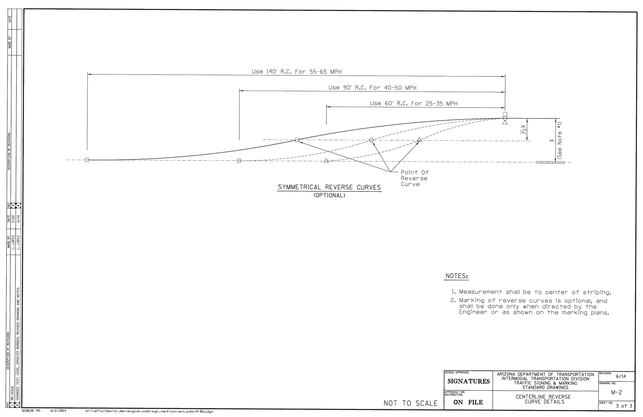


NOTES:

1. All measurements shall be to the center of the lines.
2. Taper lengths for a design or posted speed of 40 MPH or less shall use the formula: $L = WS^2/60$. Taper lengths for a design or posted speed of 45 MPH or above shall use the formula: $L = S \times W$, where L = taper length; S = speed limit; W = distance of lateral shift. Note that lateral shift will vary depending on intersection geometry. Non-symmetrical widening will require larger shifts and longer tapers.
3. Refer to ADOT Traffic Engineering PGP 245 and 430 for turn lane design. See Std Dwg M-11 for turn lane markings.
4. To be installed only when directed by the Engineer.

DRAWN BY	DESIGNED BY	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC ENGINEERING & MANAGEMENT STANDARD DRAWING	DRAWING NO.
SIGNATURES	ON FILE	INTERSECTION STRIPING (TWO-LANE RURAL)	M-2

NOT TO SCALE

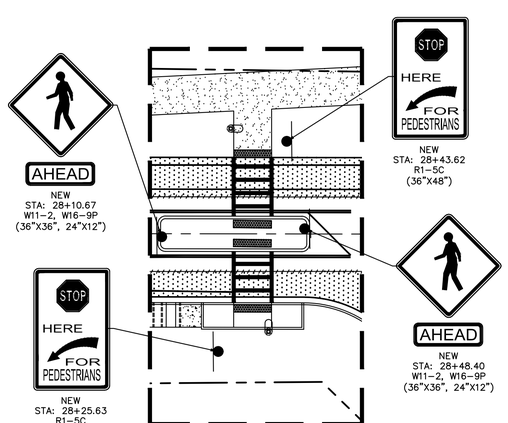


NOTES:

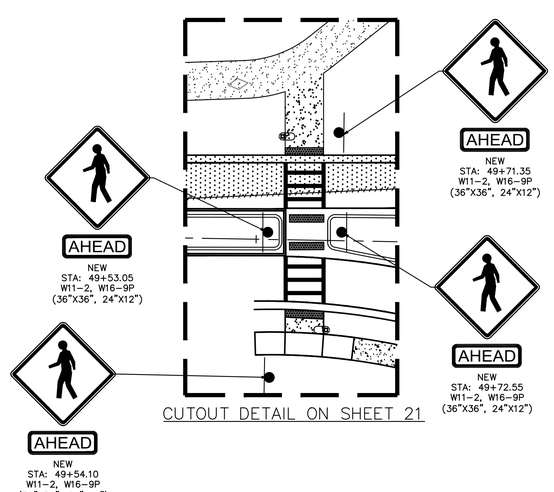
1. Measurement shall be to center of striping.
2. Marking of reverse curves is optional, and shall be done only when directed by the Engineer or as shown on the marking plans.

DRAWN BY	DESIGNED BY	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC ENGINEERING & MANAGEMENT STANDARD DRAWING	DRAWING NO.
SIGNATURES	ON FILE	CENTERLINE REVERSE CURVE DETAILS	M-2

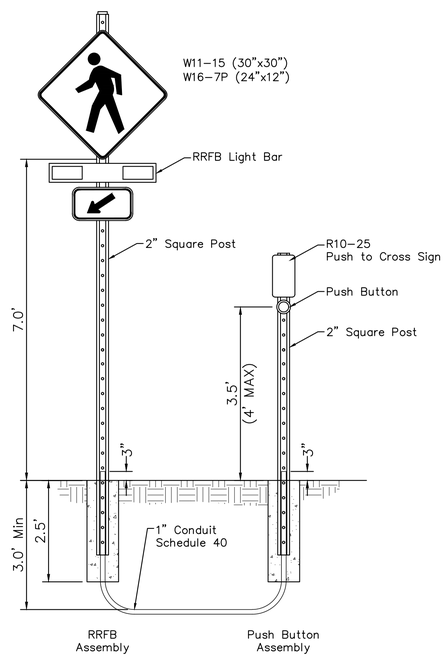
NOT TO SCALE



CUTOUT DETAIL ON SHEET 16



CUTOUT DETAIL ON SHEET 21



RRFB DETAIL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

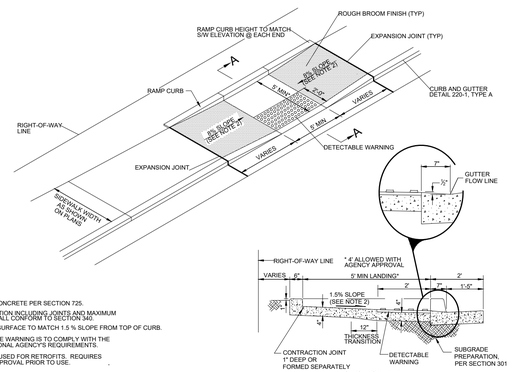
Kimley»Horn
© 2024 KIMLEY-HORN AND ASSOCIATES, INC.
101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO. 291056010
DRAWING NAME DT01

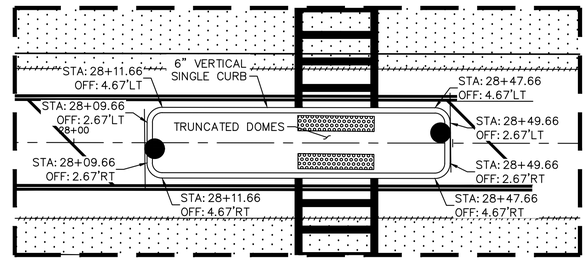


NOTES:

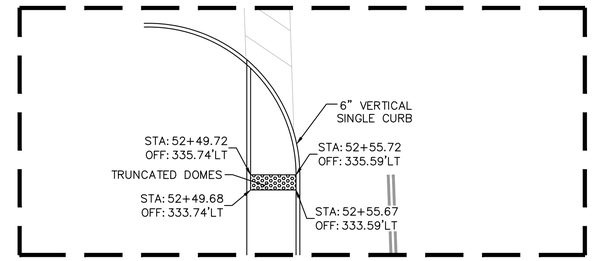
1. CLASS 'B' CONCRETE PER SECTION 725.
2. CONSTRUCTION INCLUDING JOINTS AND MAXIMUM SLOPES SHALL CONFORM TO SECTION 340.
3. SIDEWALK SURFACE TO MATCH 1.5 % SLOPE FROM TOP OF CURB.
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
5. TYPICALLY USED FOR RETROFITS. REQUIRES AGENCY APPROVAL PRIOR TO USE.

SECTION A-A

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	PARALLEL CURB RAMP	REVISED	DETAIL NO.
238–3				01–01–2018	238–3



CUTOUT DETAIL ON SHEET 16



CUTOUT DETAIL ON SHEET 31

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

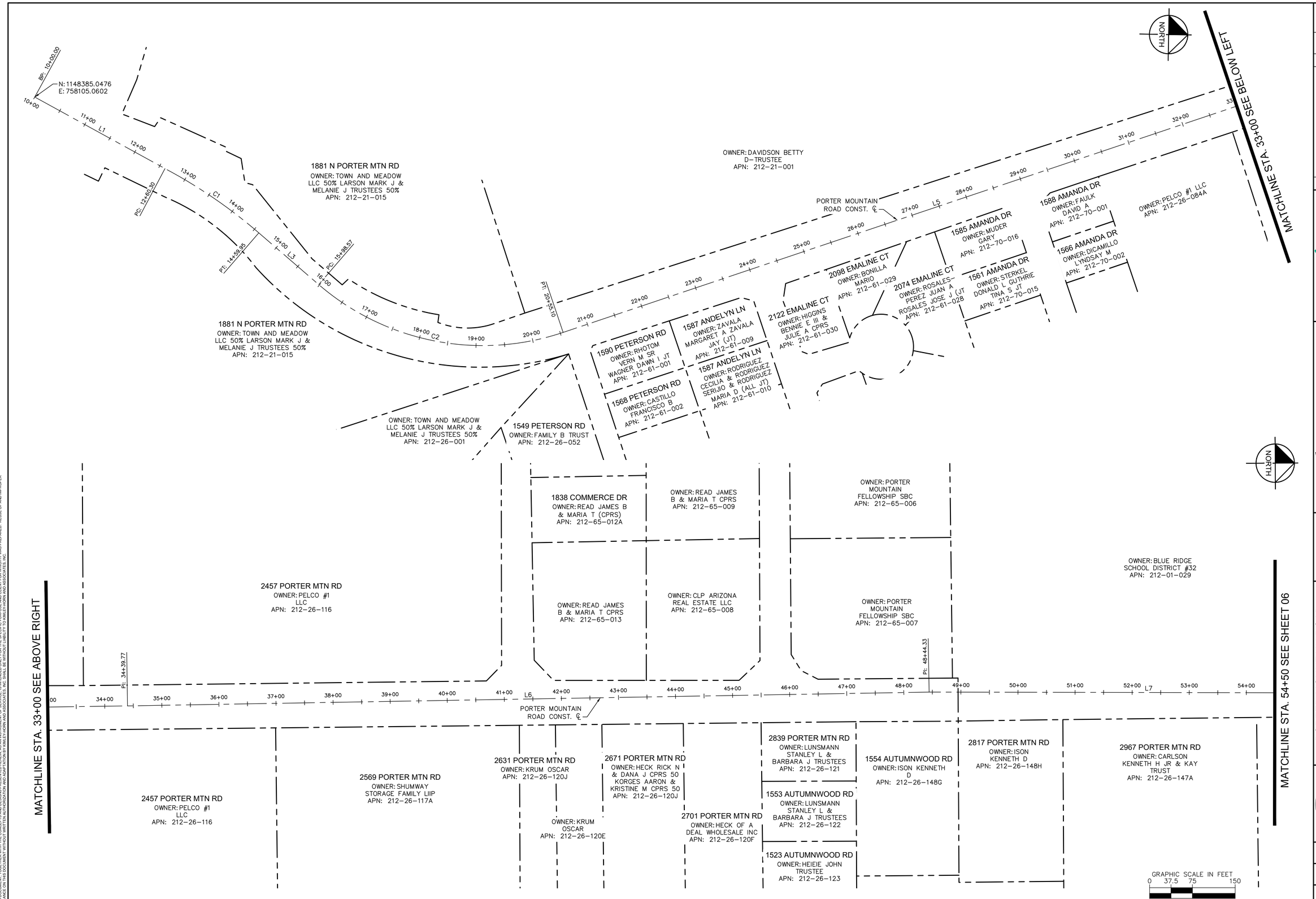
SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
DT02



NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

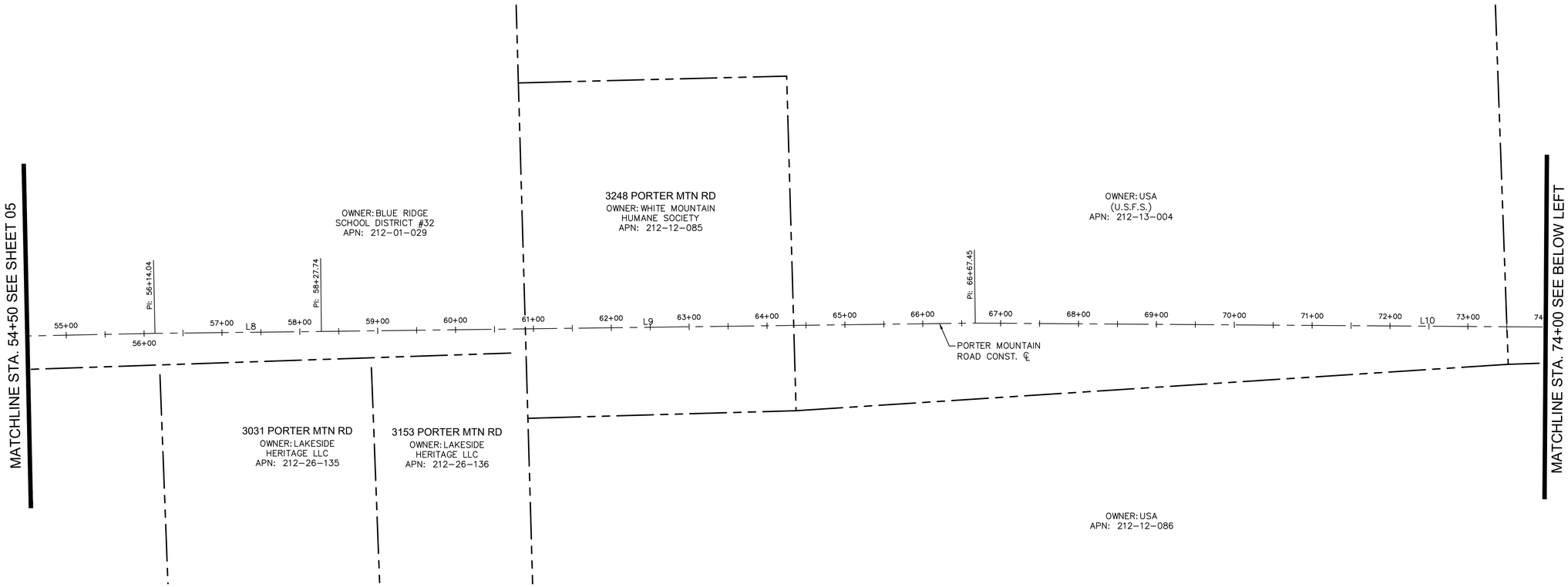
SCALE (H): 1"=75'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

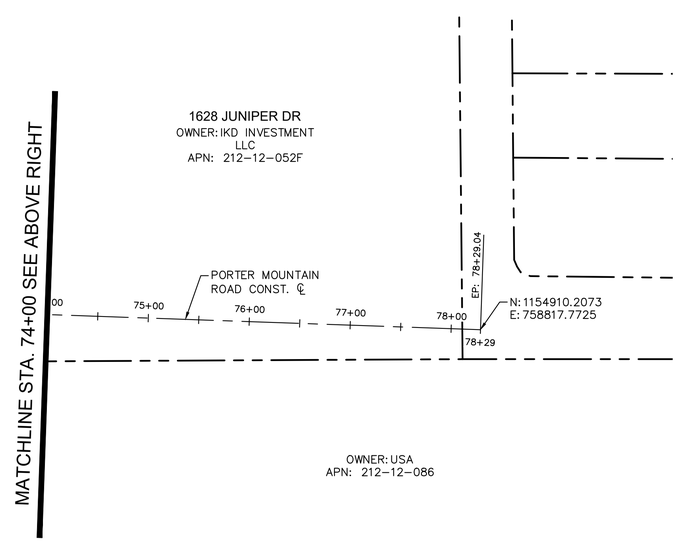
PORTER MOUNTAIN ROAD IMPROVEMENTS
HORIZONTAL CONTROL
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/27/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
HC01





LINE TABLE		
LINE	LENGTH	BEARING
L1	260.30	N46°49'56.93"E
L3	138.62	N58°51'30.24"E
L5	1384.67	N0°29'56.55"W
L6	1404.55	N0°40'49.28"W
L7	769.71	N0°24'50.94"E
L8	213.70	N0°58'03.91"E
L9	839.72	N0°52'12.56"E
L10	1161.59	N2°00'07.90"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	885.20'	199.65'	N52°28'52"E	199.23'	12°55'22"	100.25'
C2	440.00'	456.53'	N29°08'02"E	436.33'	59°26'55"	251.22'

SURVEY CONTROL POINT TABLE				
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
A	6723.3200	1155724.5103	758825.1014	BLM BC RM 100FT
3	6709.8600	1147820.1710	758848.1282	GLOB23/24/25/26
4	626.3900	1147811.2977	758467.0117	NGS A505
296	6722.7900	1155791.8707	758897.8840	BLM BC RM 100FT
297	6723.8500	1155650.6474	758898.0975	BLB BC RM 100FT

NORTH

GRAPHIC SCALE IN FEET
0 37.5 75 150

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In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

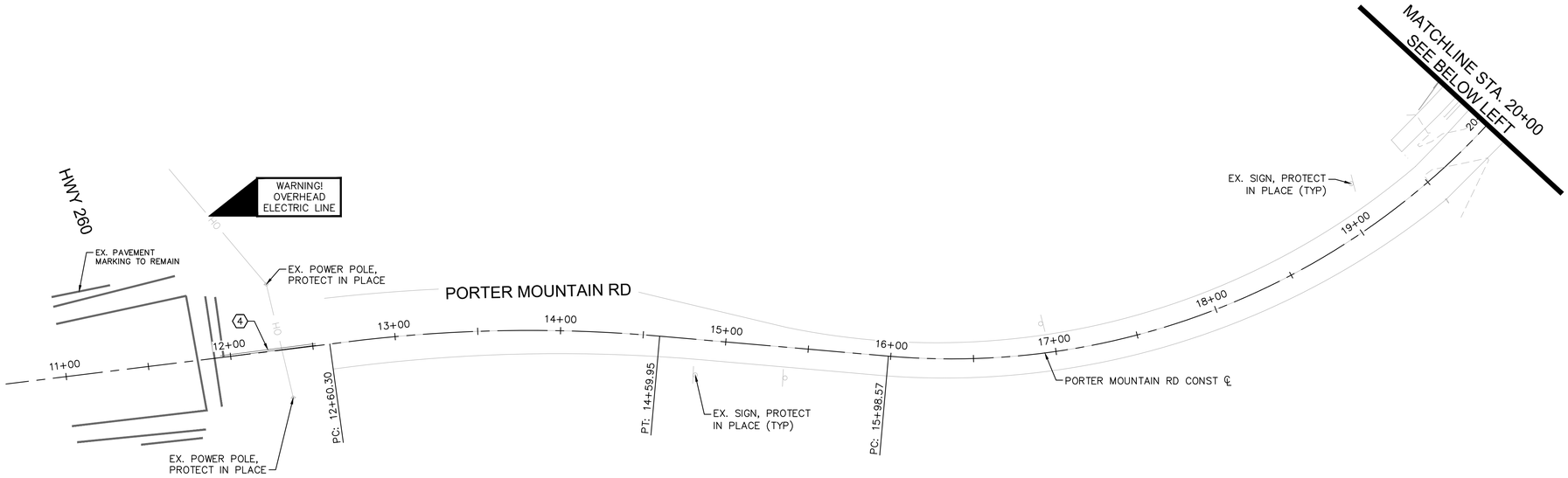
SCALE (H): 1"=75'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

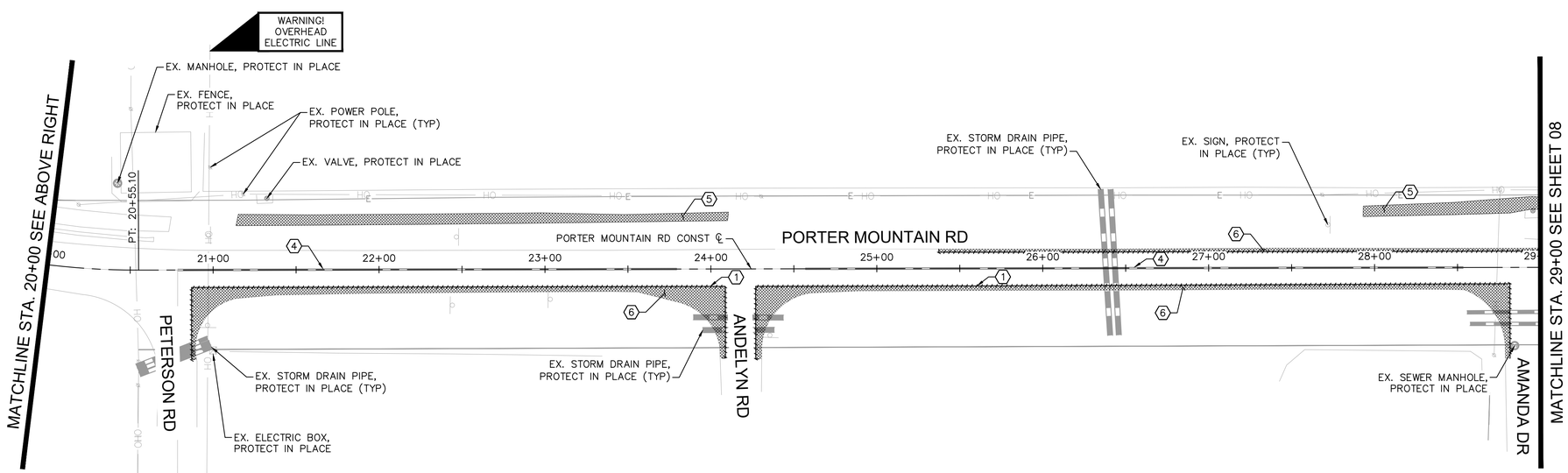
PORTER MOUNTAIN ROAD IMPROVEMENTS
HORIZONTAL CONTROL
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO. 291056010

DRAWING NAME HC02





DEMOLITION NOTES

NO	DESCRIPTION
1	SAWCUT EXISTING PAVEMENT.
4	OBLITERATE EXISTING PAVEMENT MARKING STRIPE.
5	REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT PATHWAY.
6	REMOVE AND DISPOSE EXISTING ASHPALT PAVEMENT.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): 1"=20'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
DEMOLITION PLAN
BEGINNING TO STA 29+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
DM01

07 OF 57

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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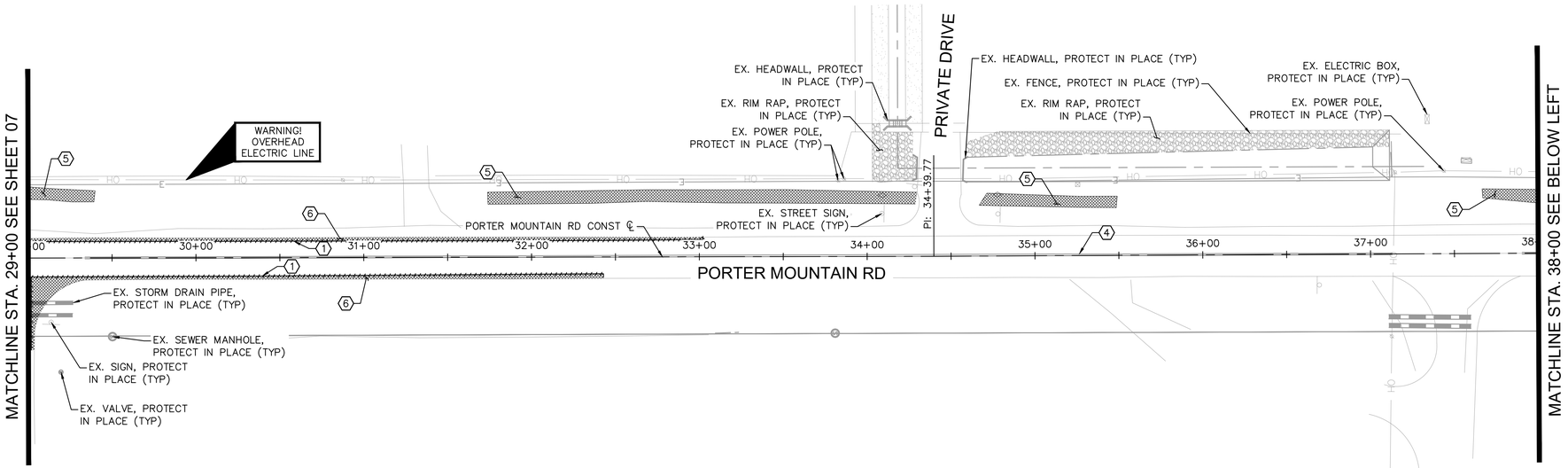
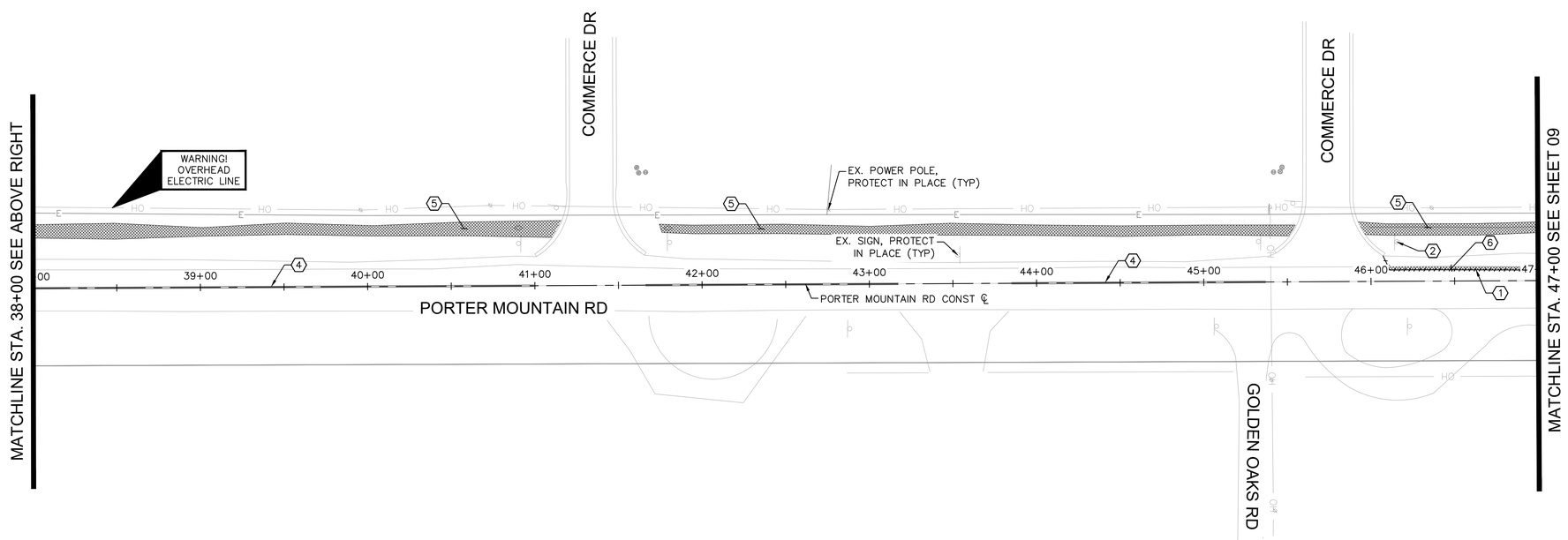
In Maricopa County: (602) 263-1100





DEMOLITION NOTES

NO	DESCRIPTION
1	SAWCUT EXISTING PAVEMENT.
2	REMOVE AND RELOCATE EXISTING SIGN.
4	OBLITERATE EXISTING PAVEMENT MARKING STRIPE.
5	REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT PATHWAY.
6	REMOVE AND DISPOSE EXISTING ASHPALT PAVEMENT.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
DEMOLITION PLAN
STA 29+00 TO STA 47+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
DM02

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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Arizona Blue Stake, Inc.
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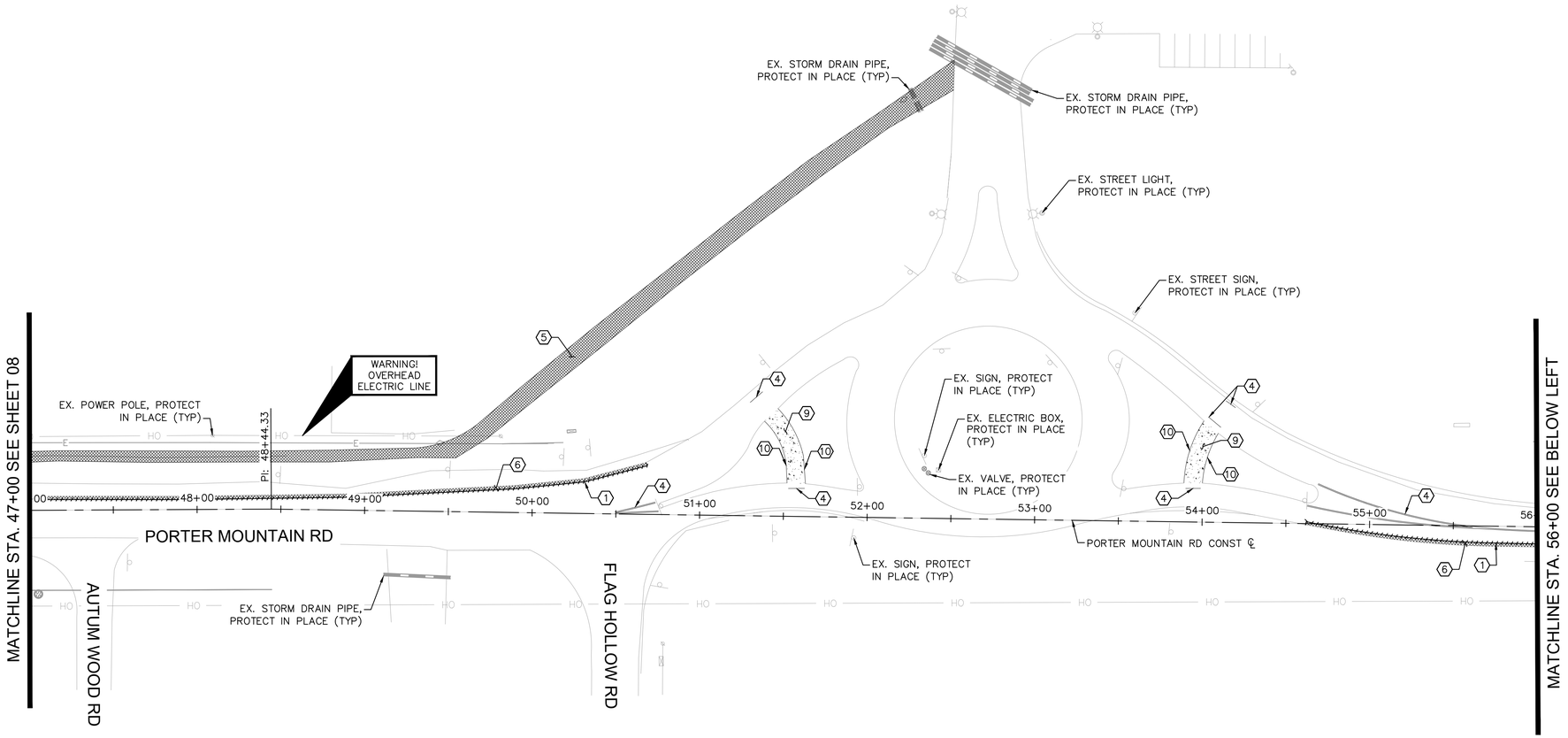
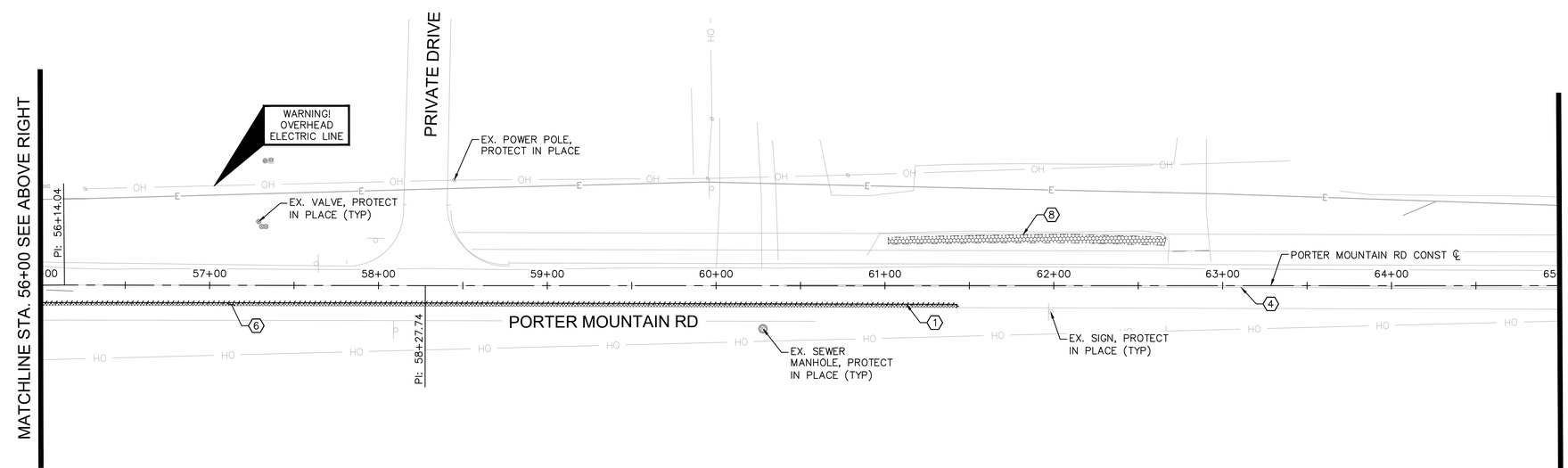
In Maricopa County: (602) 263-1100





DEMOLITION NOTES

NO	DESCRIPTION
1	SAWCUT EXISTING PAVEMENT.
4	OBLITERATE EXISTING PAVEMENT MARKING STRIPE.
5	REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT PATHWAY.
6	REMOVE AND DISPOSE EXISTING ASHPALT PAVEMENT.
8	REMOVE AND DISPOSE EXISTING ROCK WALL.
9	REMOVE AND DISPOSE EXISTING CONCRETE SIDEWALK
10	REMOVE AND DISPOSE EXISTING CURB

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
DEMOLITION PLAN
STA 47+00 TO STA 65+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

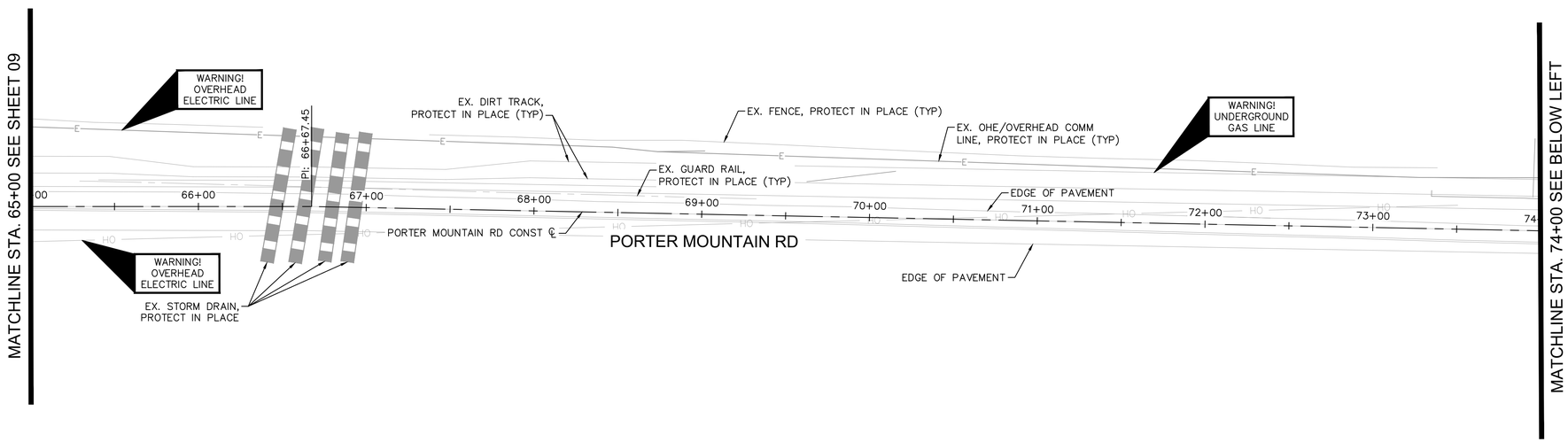
NORTH

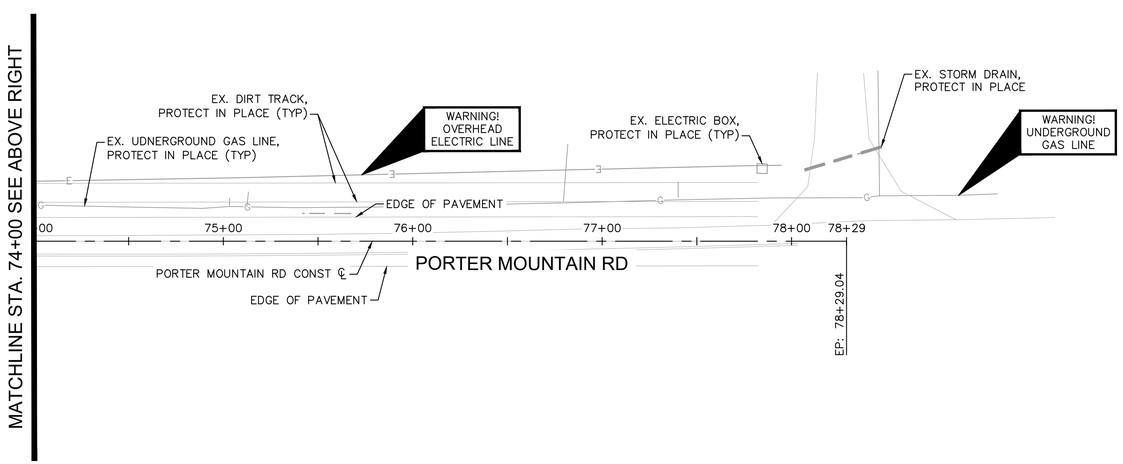
GRAPHIC SCALE IN FEET
0 20 40 80

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PROJECT NO.
291056010

DRAWING NAME
DM03





DEMOLITION NOTES

NO	DESCRIPTION

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
DEMOLITION PLAN
STA 65+00 TO END
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

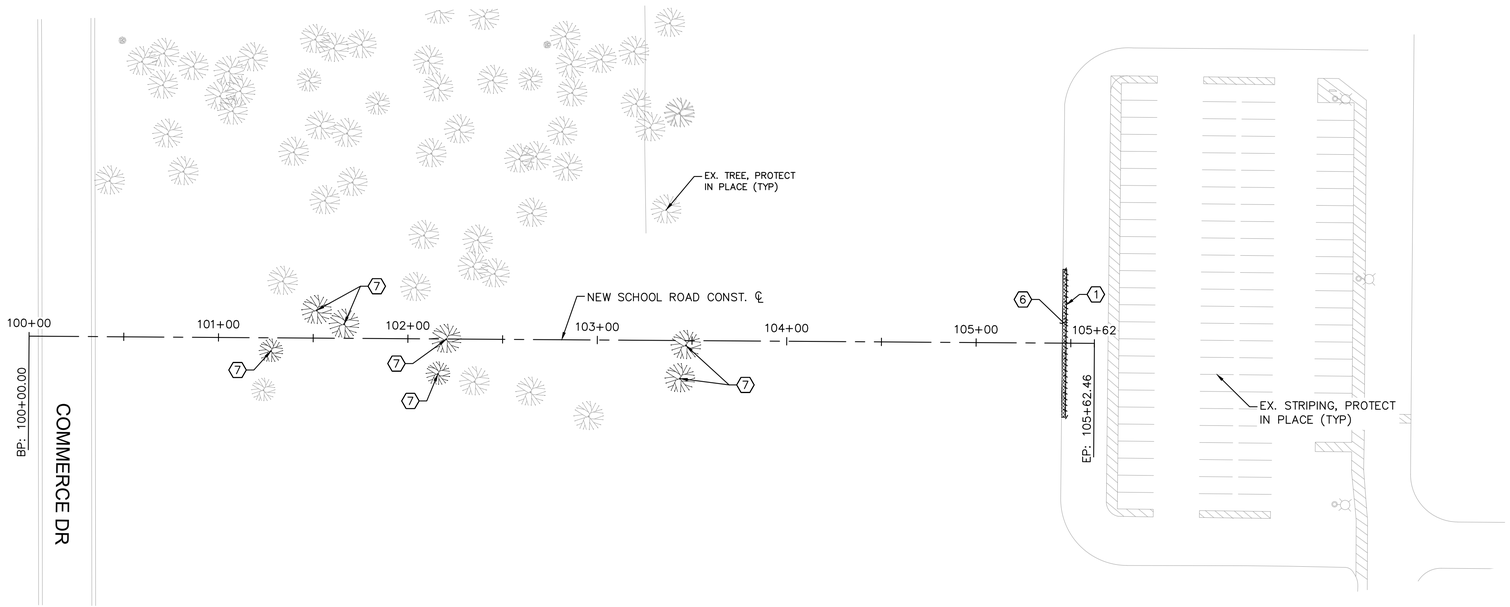
PROJECT NO.
291056010

DRAWING NAME
DM04

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



DEMOLITION NOTES

NO	DESCRIPTION
1	SAWCUT EXISTING PAVEMENT.
6	REMOVE AND DISPOSE EXISTING ASHPALT PAVEMENT.
7	REMOVE AND DISPOSE EXISTING VEGETATION

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

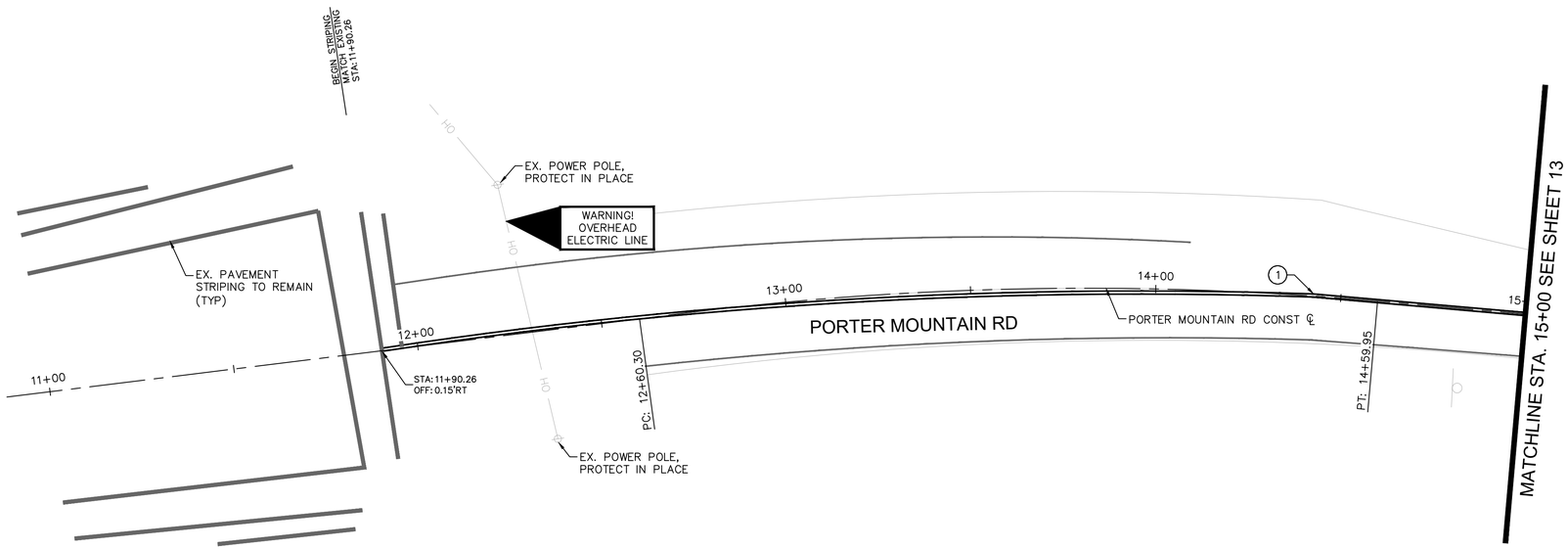
PORTER MOUNTAIN ROAD
IMPROVEMENTS
DEMOLITION PLAN

PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
DM05



PROFILE BEGINS AT
STA 20+74 ON SHEET 14

ROADWAY NOTES

NO	DESCRIPTION

SIGNING AND STRIPING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
BEGINNING TO STA 15+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

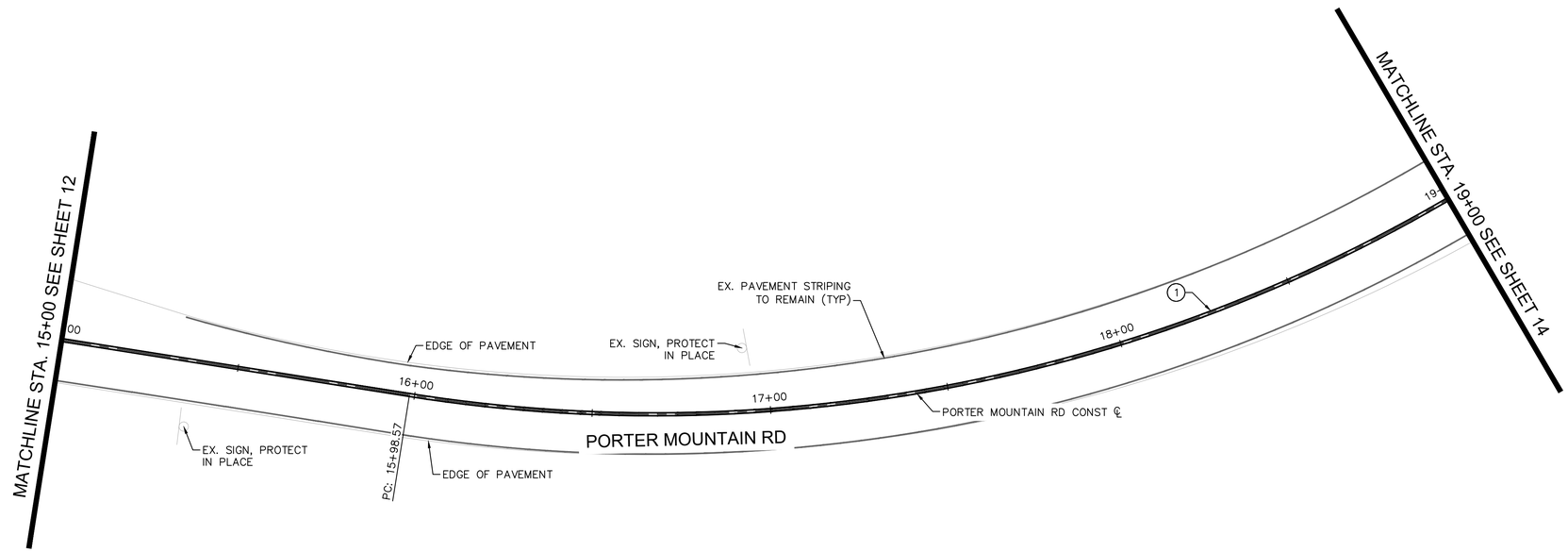
PROJECT NO.
291056010

DRAWING NAME
RD01

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



PROFILE BEGINS AT
STA 20+74 ON SHEET 14

ROADWAY NOTES

NO	DESCRIPTION

SIGNING AND STRIPING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 15+00 TO STA 19+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 46841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

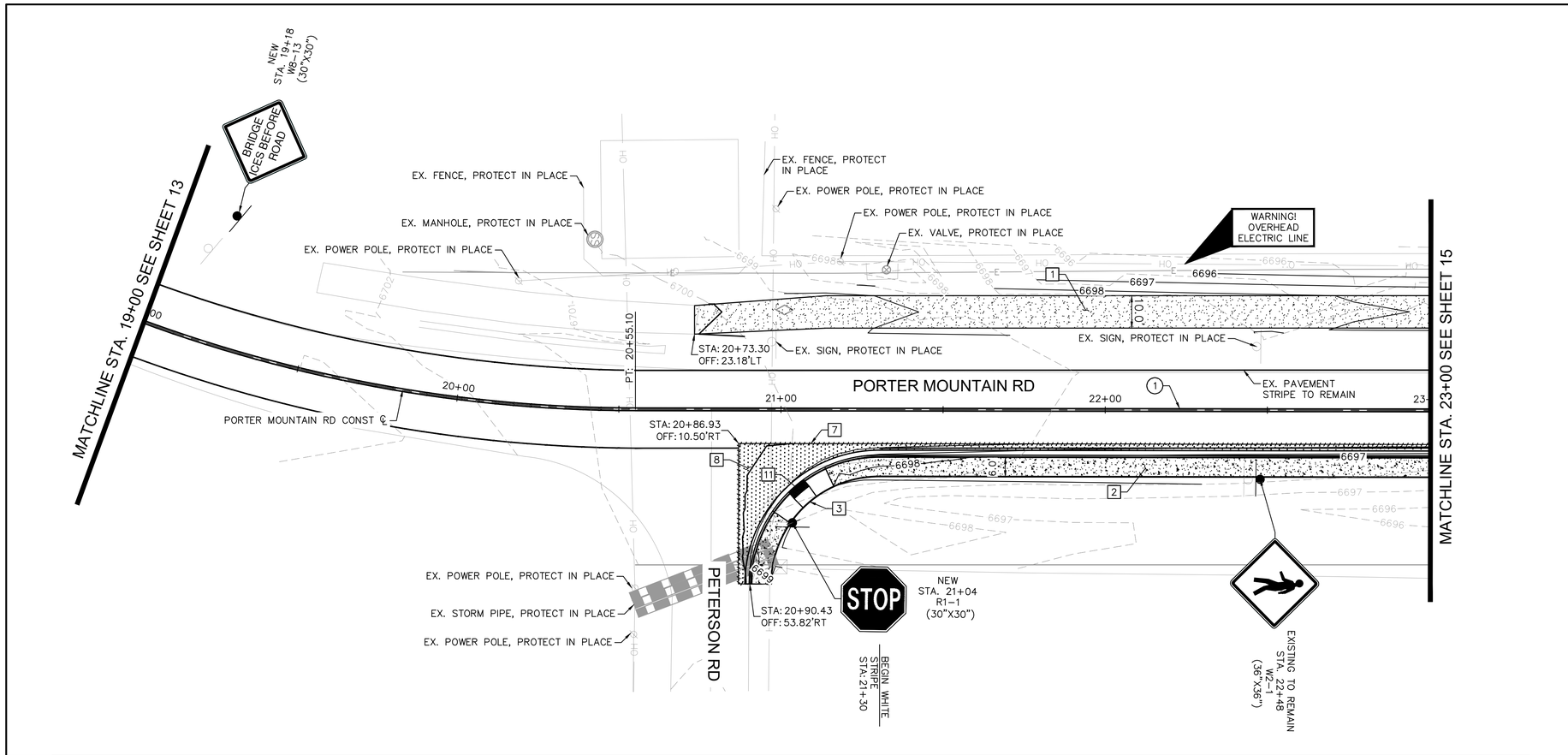
PROJECT NO.
291056010

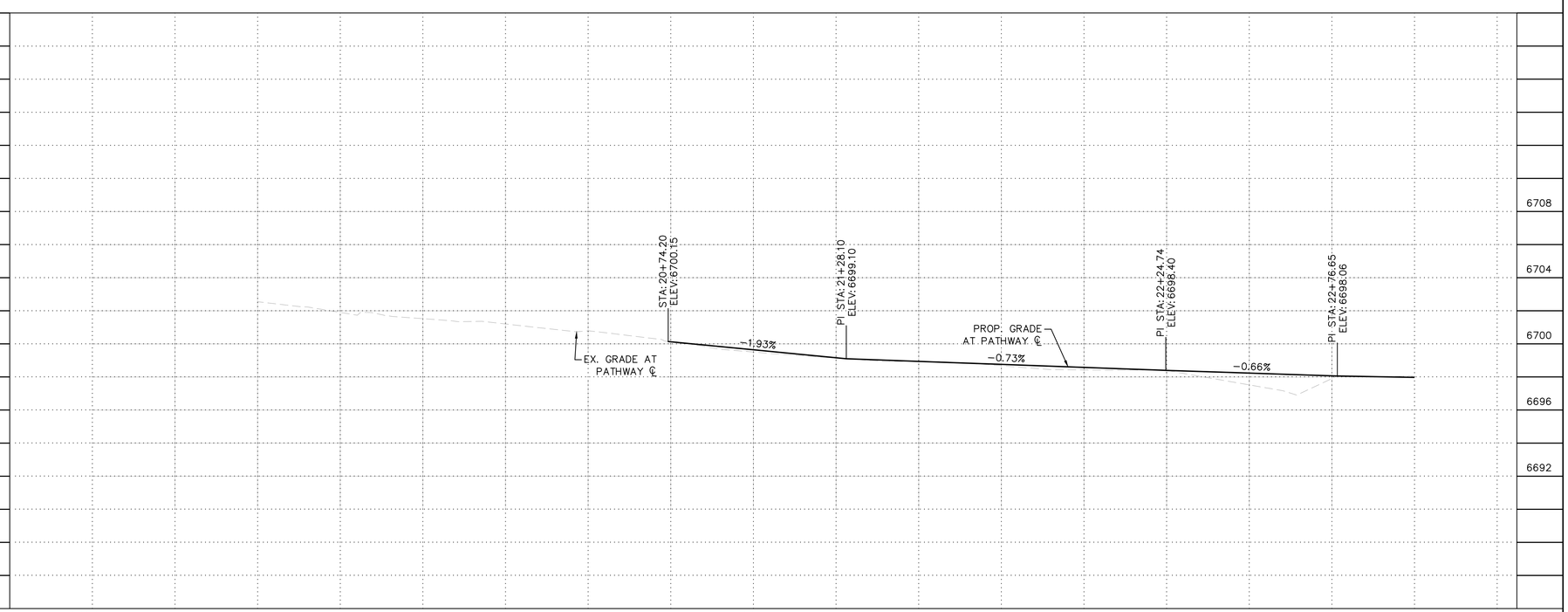
DRAWING NAME
RD02

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
2	CONSTRUCT 4" CONCRETE SIDEWALK PER MAG STD DTL 230, 6' WIDE.
3	CONSTRUCT CURB RAMP PER MAG STD DTL 238-3.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.
11	TRUNCATED DOMES

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 19+00 TO STA 23+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

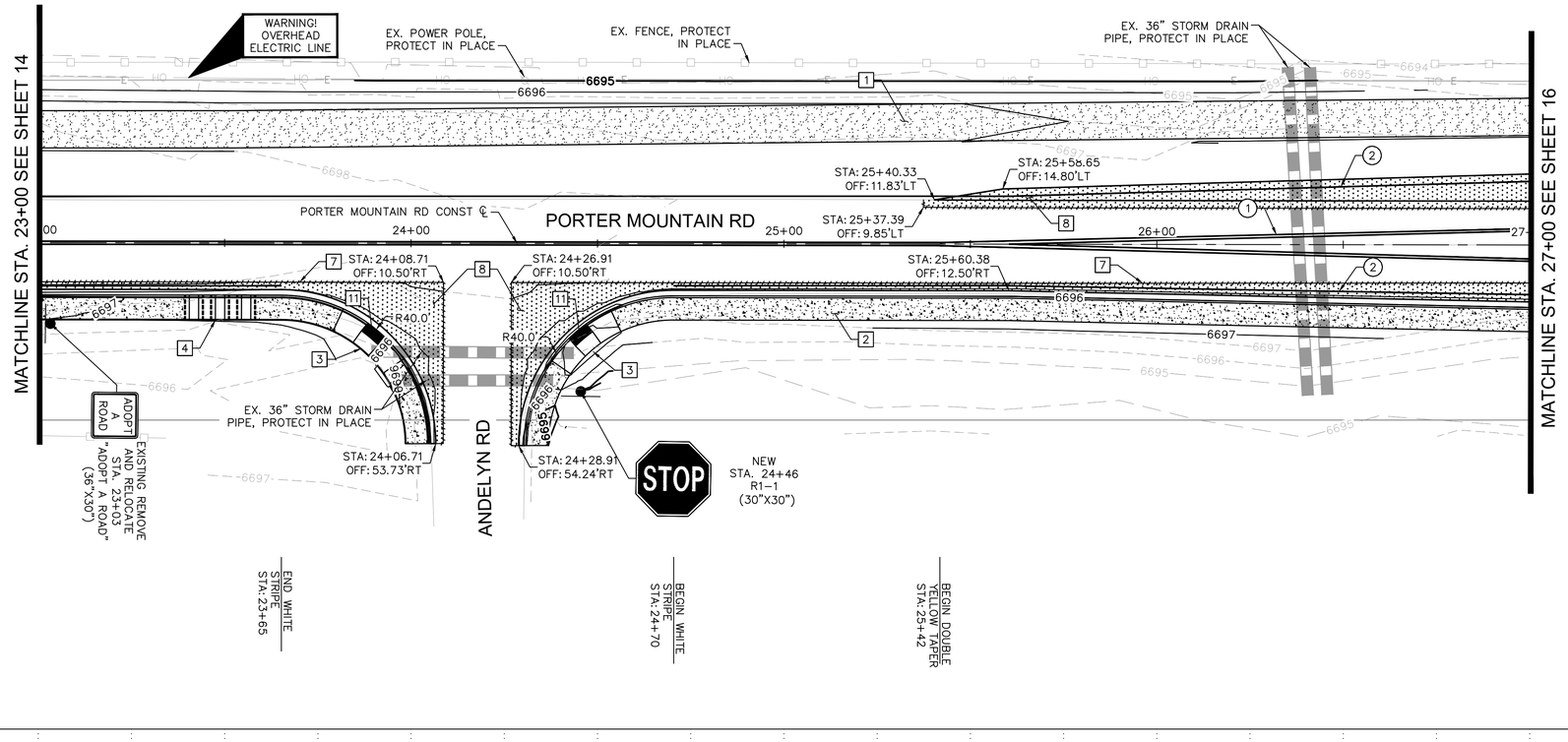
PROJECT NO.
291056010

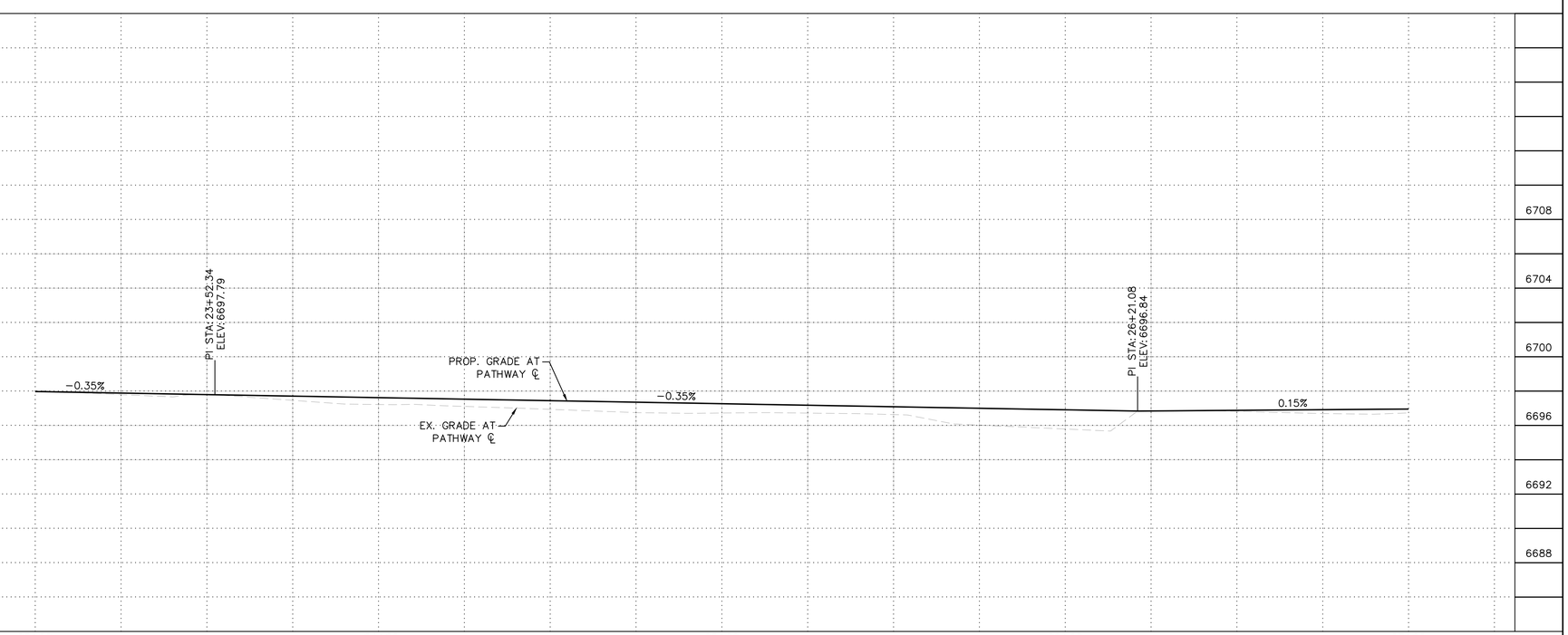
DRAWING NAME
RD03

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02, 10' WIDE.
2	CONSTRUCT 4" CONCRETE SIDEWALK PER MAG STD DTL 230, 6' WIDE.
3	CONSTRUCT CURB RAMP PER MAG STD DTL 236-5.
4	INSTALL SIDEWALK SCUPPER PER MAG STD DTL 206.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ROADWAY PLAN
STA 23+00 TO STA 27+00
PINETOP-LAKESIDE LAKESIDE, AZ

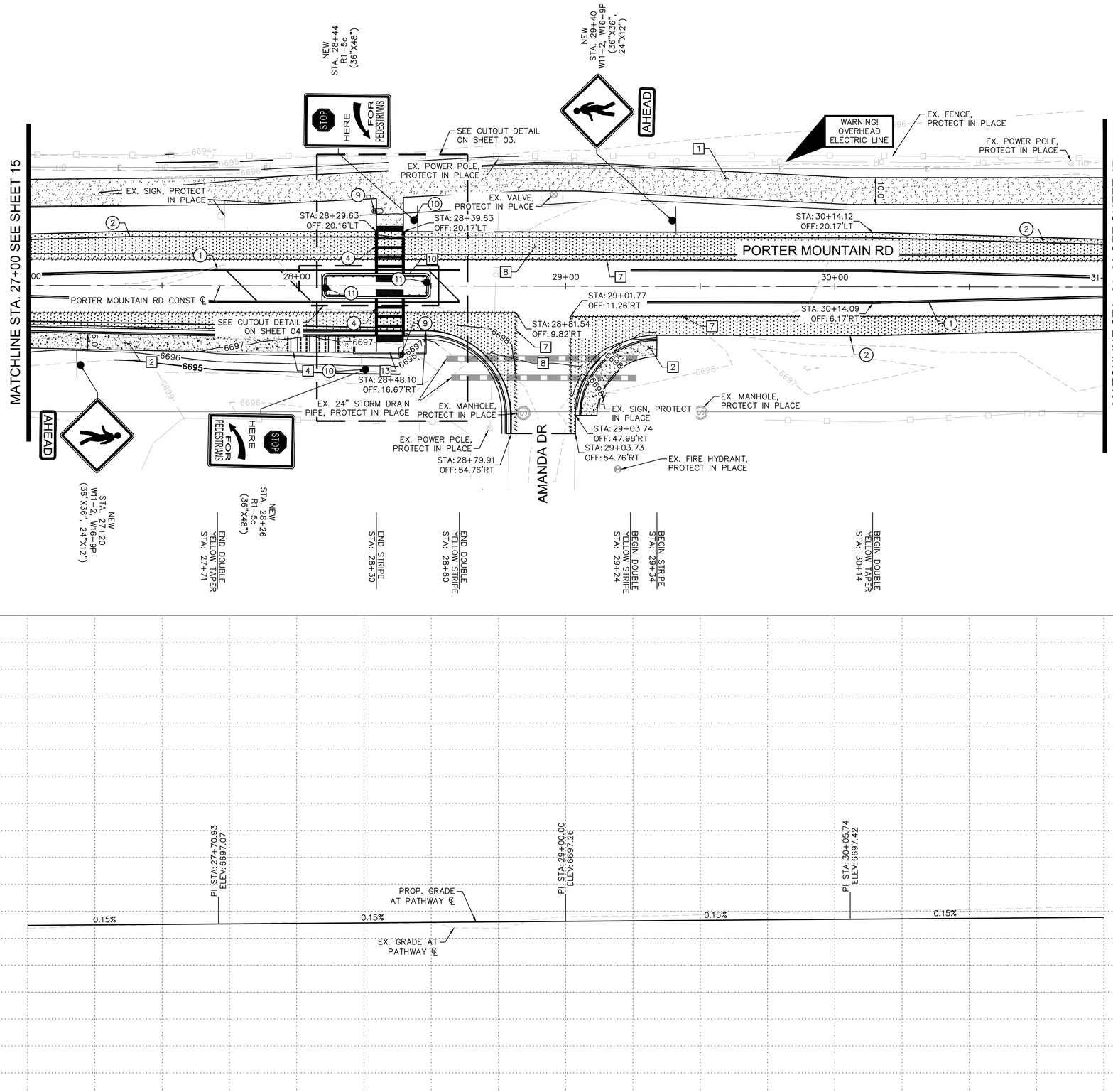
Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PROJECT NO. 291056010
DRAWING NAME RD04
15 OF 57



ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
2	CONSTRUCT 4" CONCRETE SIDEWALK PER MAG STD DTL 230, 6' WIDE.
4	INSTALL SIDEWALK SCUPPER PER MAG STD DTL 206.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.
10	INSTALL 6" VERTICAL SINGLE CURB PER MAG STD DTL 222, TYPE A.
13	CONSTRUCT CURB RAMP PER MAG STD DTL 238-3.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).
4	12" WHITE THERMOPLASTIC CROSSING PAVEMENT MARKING WITH 24" SPACING PER ADOT STD DTL M-2.
9	PEDESTRIAN PUSH BUTTON PER DETAIL ON SHEET 03.
10	PROPOSED SIGN ON NEW SIGN POST PER DETAIL ON SHEET 03.
11	NEW RECTANGULAR RAPID FLASHING BEACON PER DETAIL ON SHEET 03.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 27+00 TO STA 31+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

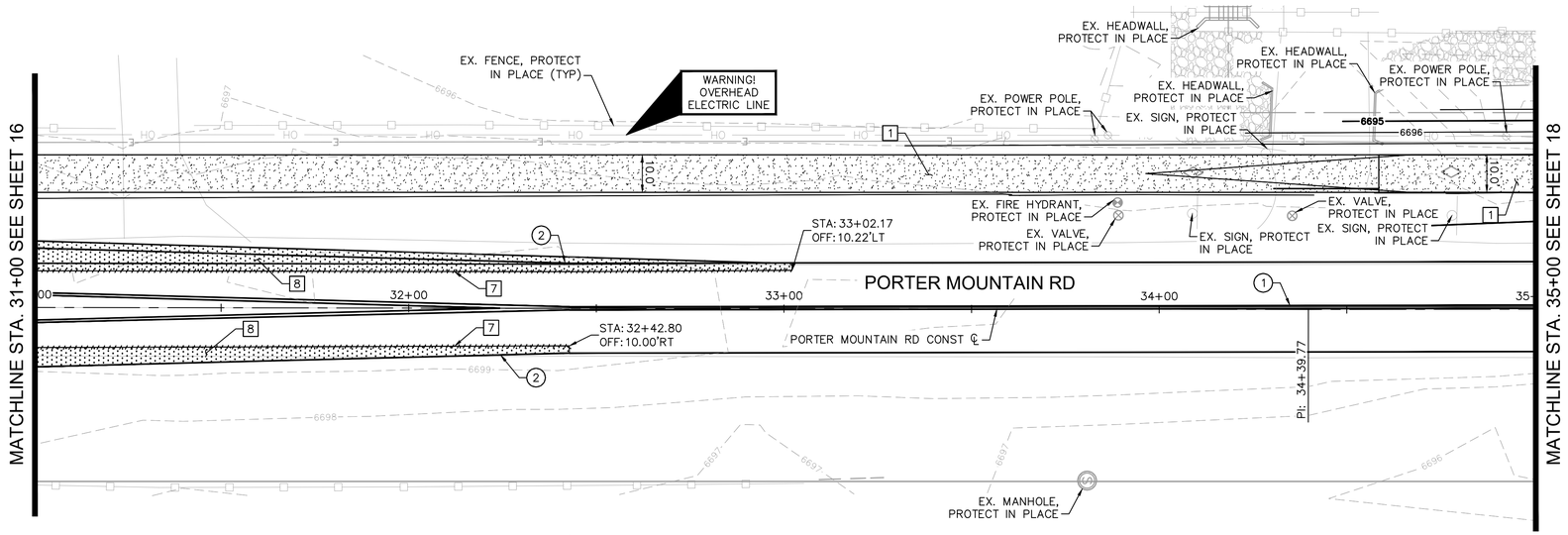
PROJECT NO. 291056010

DRAWING NAME RD05

NORTH

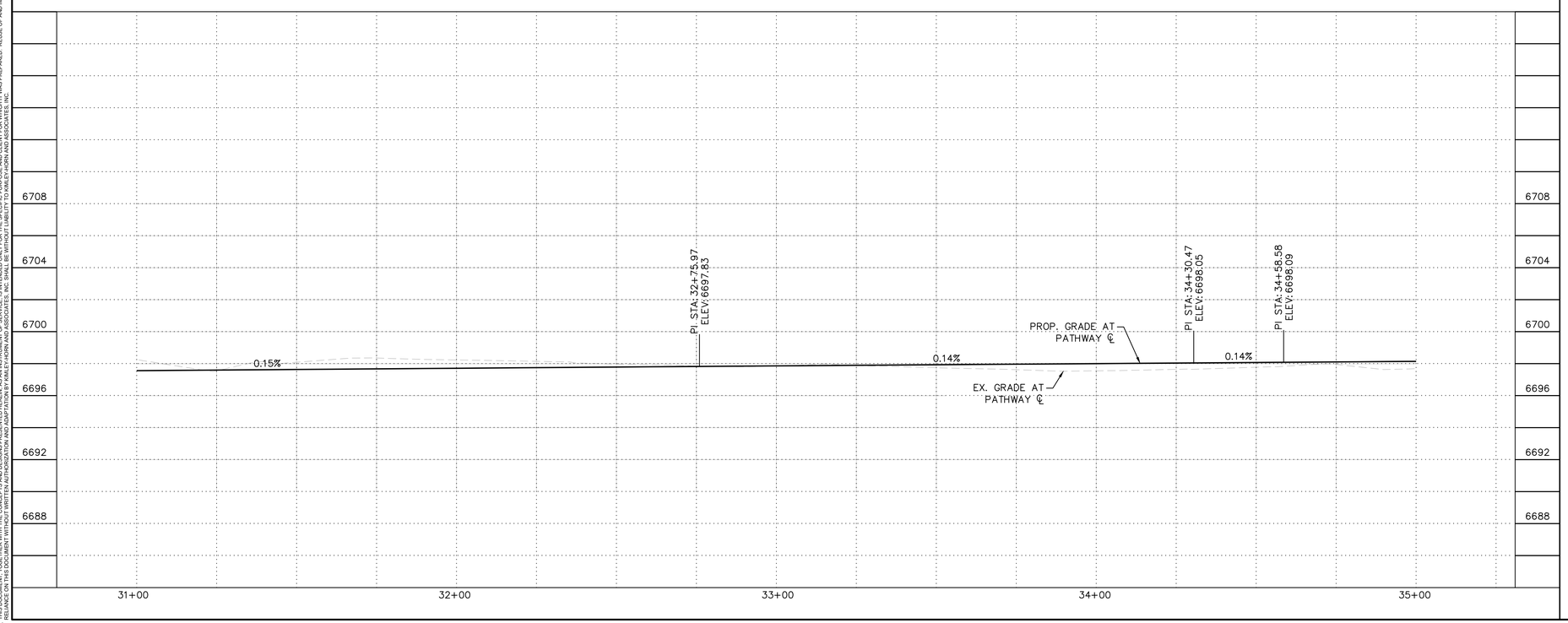
GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



END DOUBLE YELLOW TAPER STA: 32+43

WHITE STRIPE TAPER STA: 32+43



ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 31+00 TO STA 35+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/23/24
ARIZONA, U.S.A.

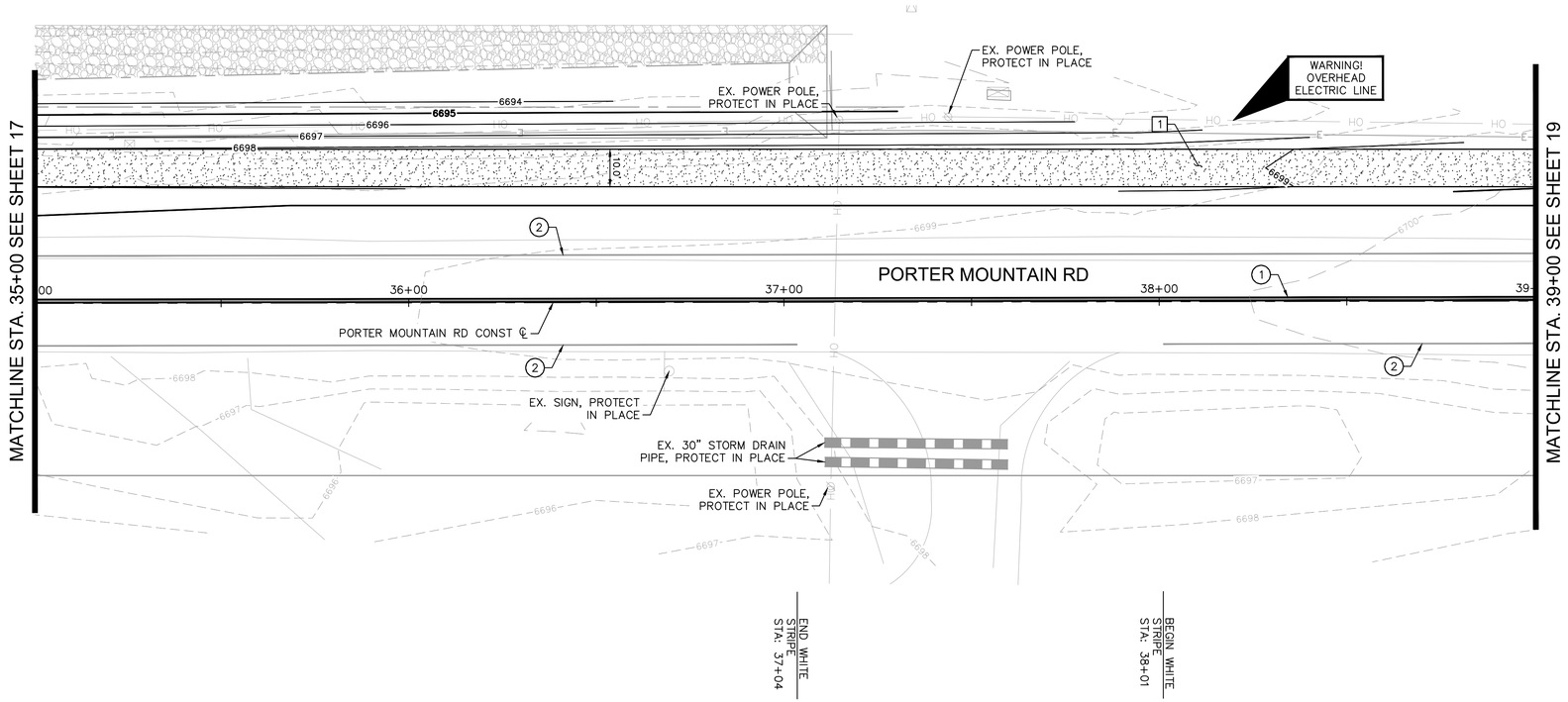
PROJECT NO.
291056010

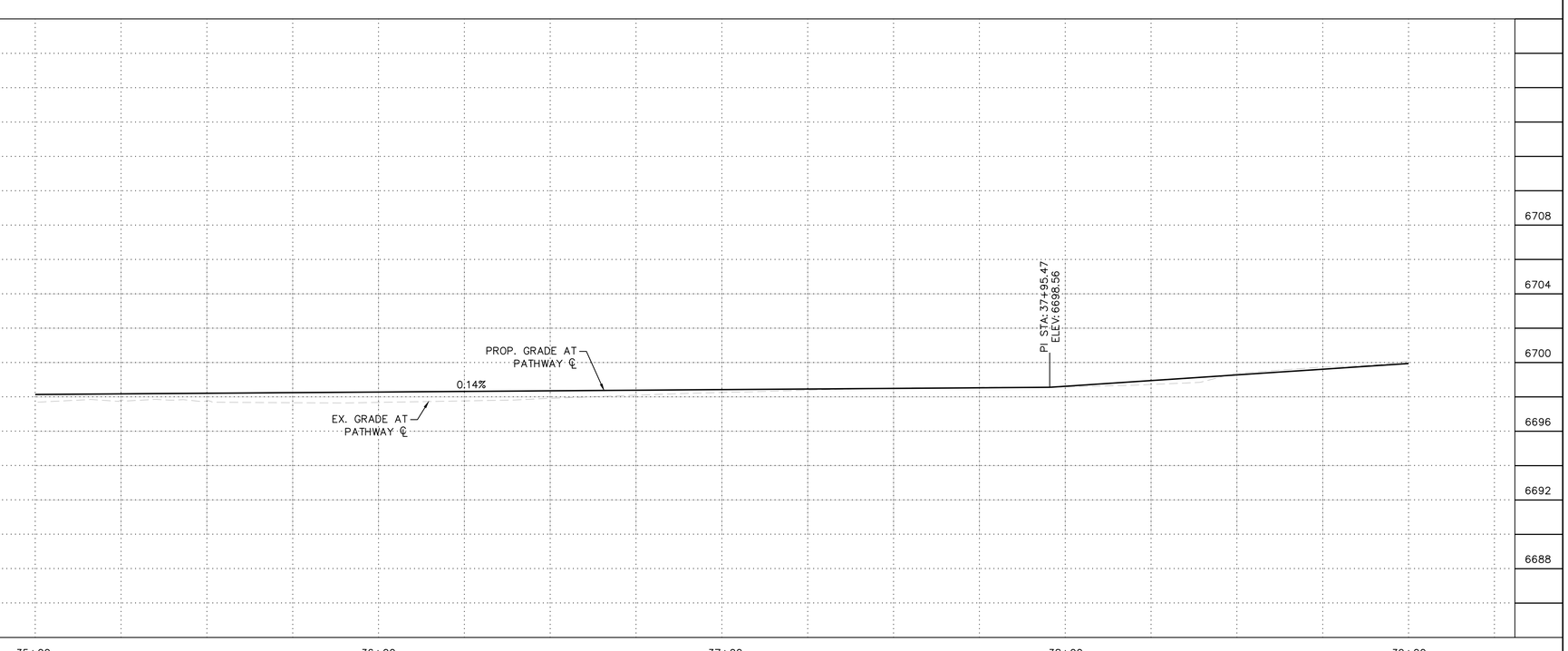
DRAWING NAME
RD06

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.

SINGING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

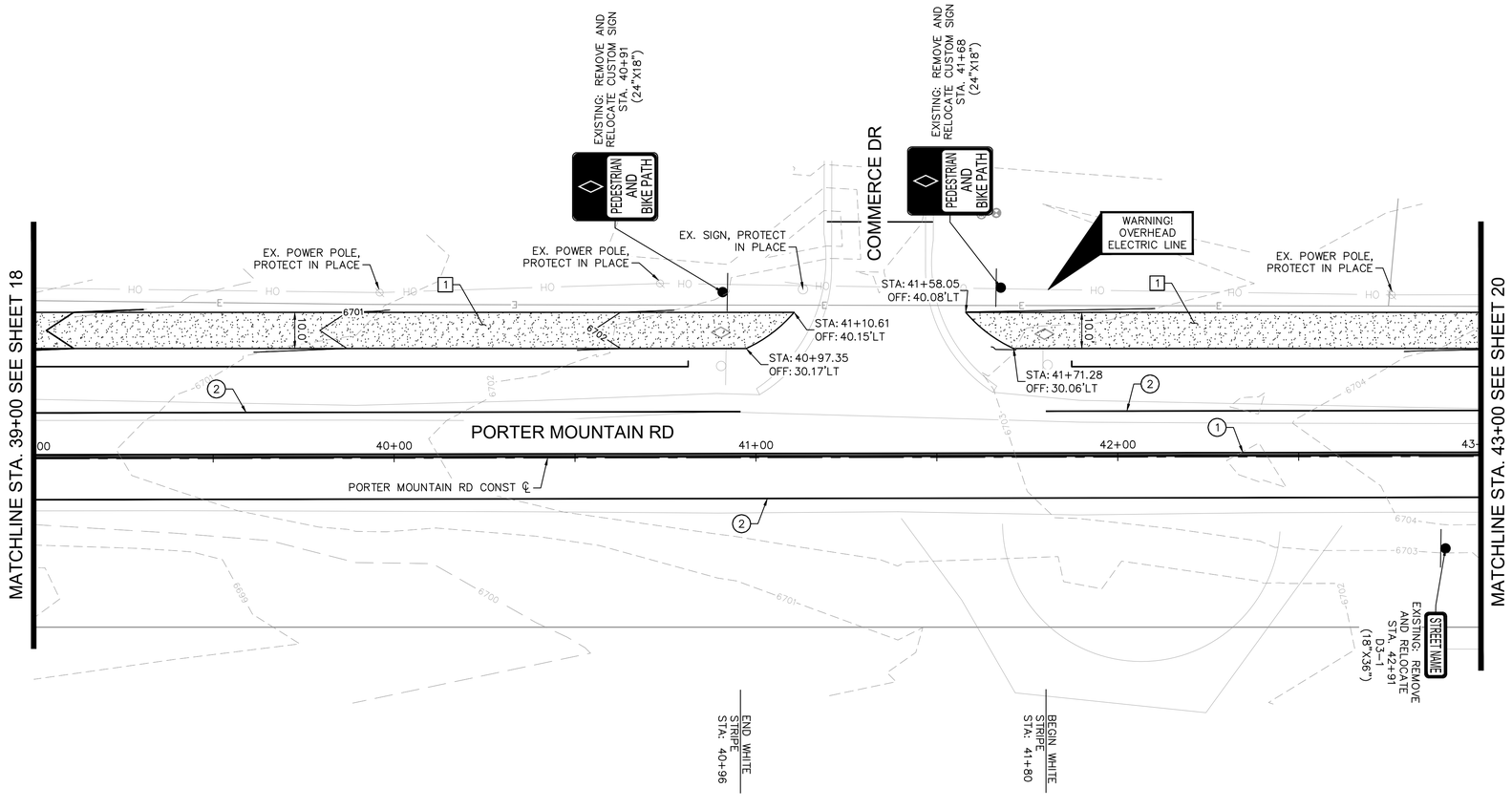
SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

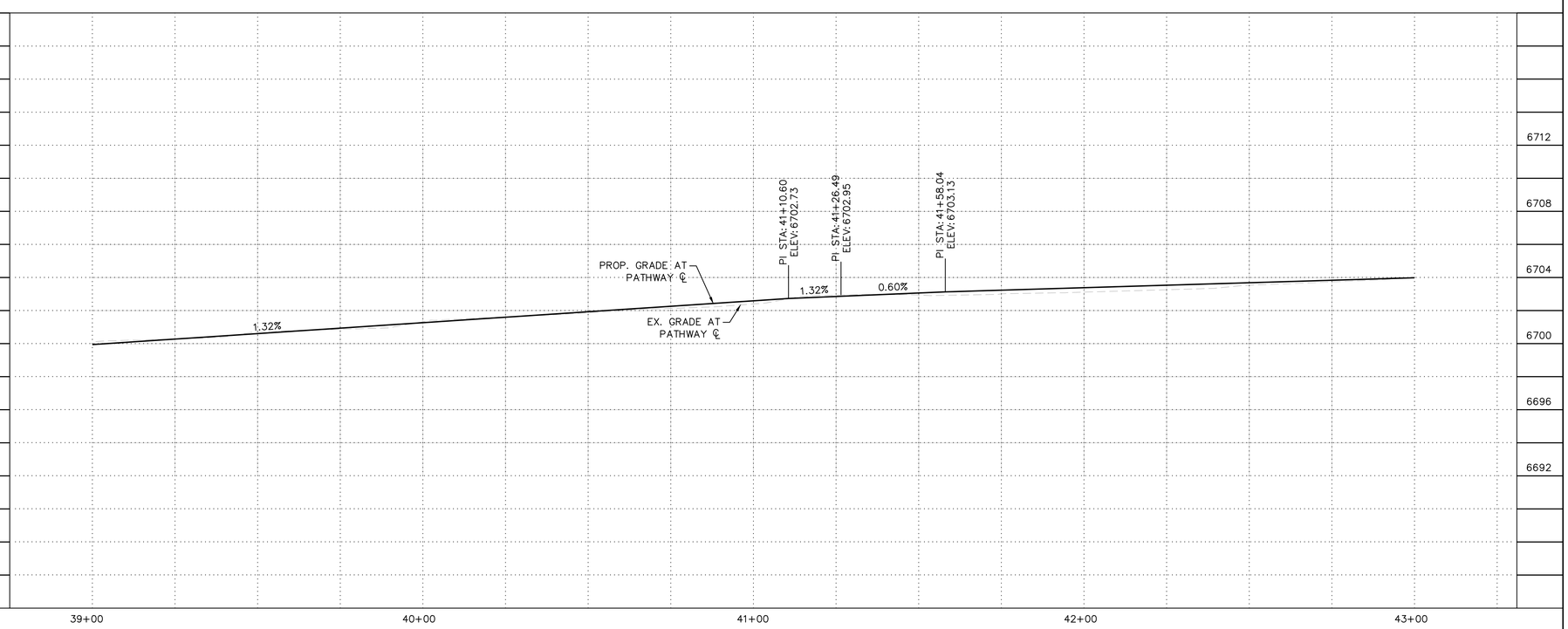
PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 35+00 TO STA 39+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
RD07





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 39+00 TO STA 43+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

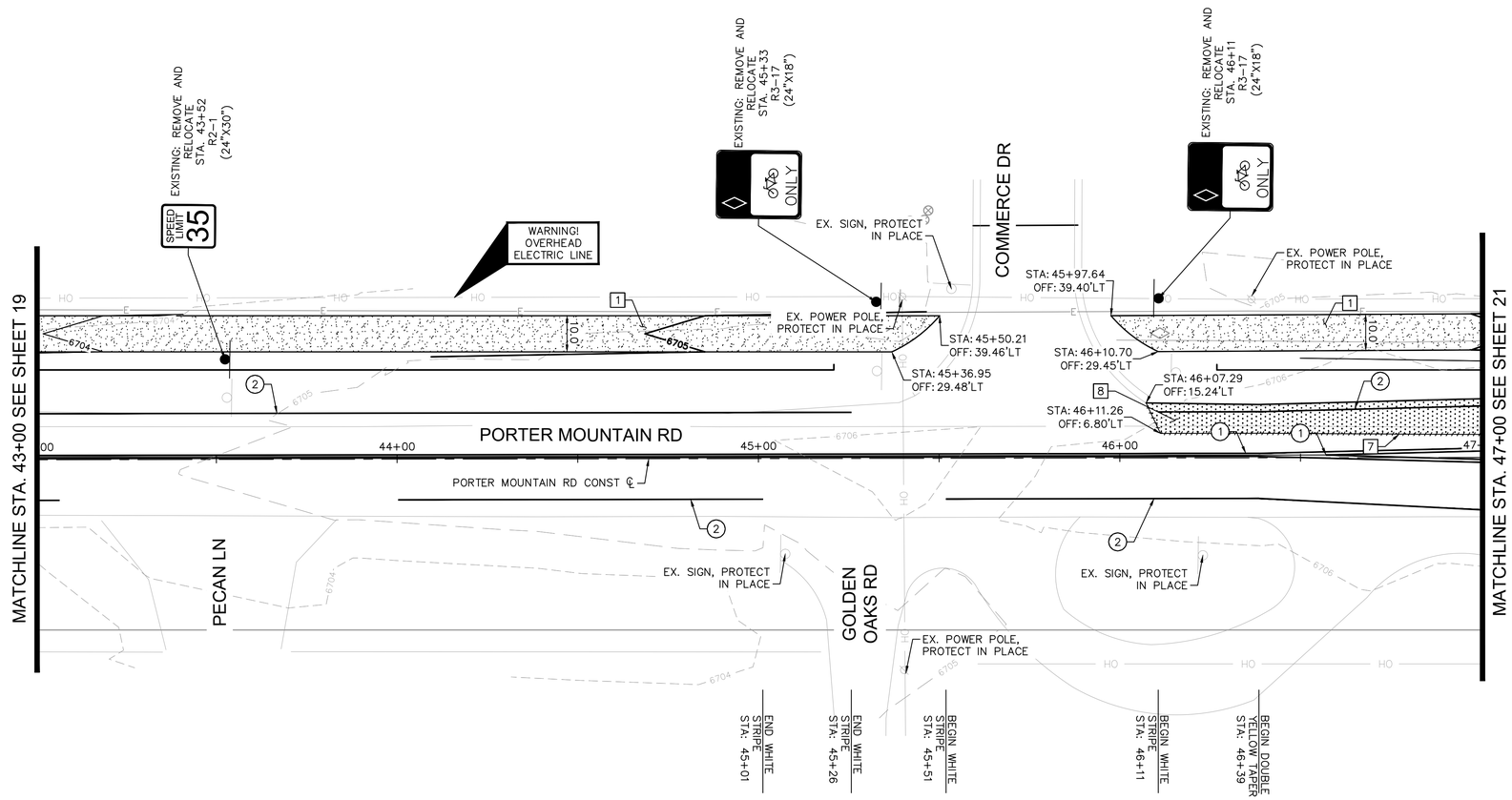
PROJECT NO.
291056010

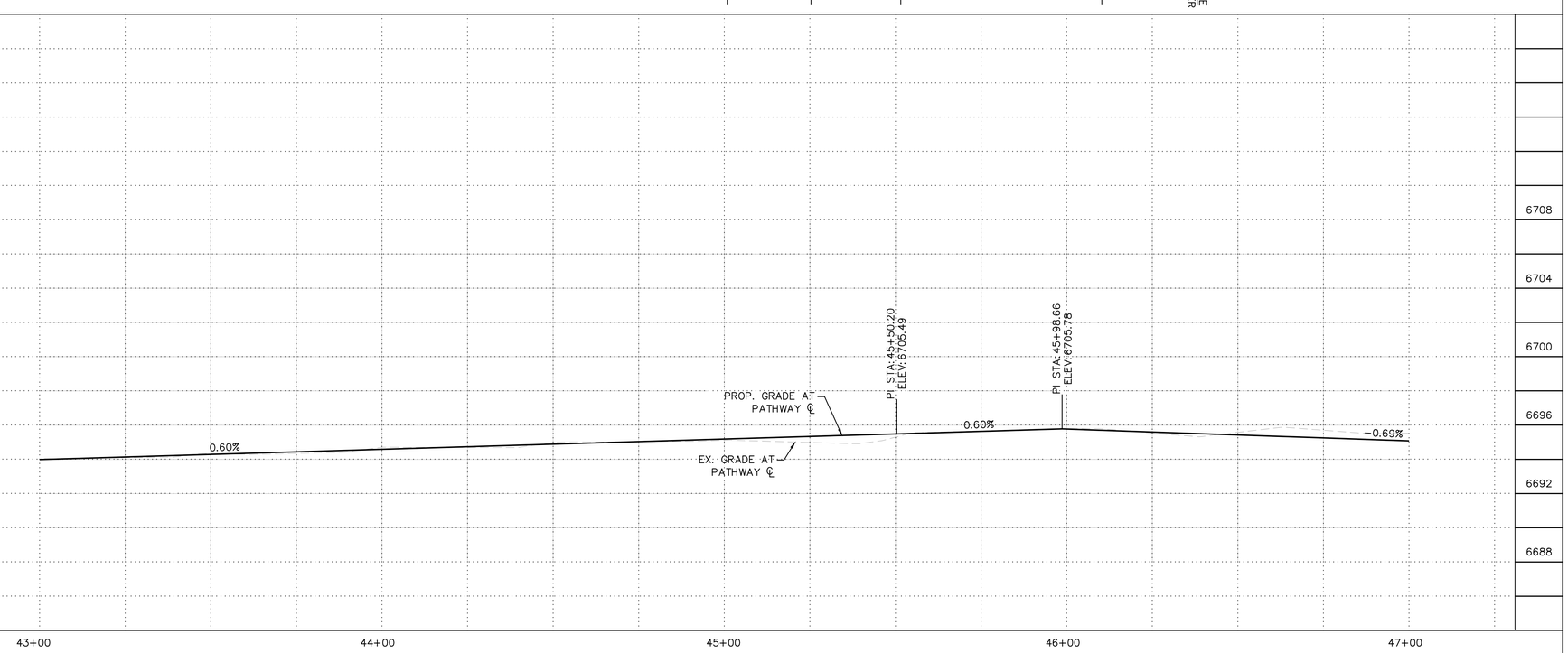
DRAWING NAME
RD08

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ROADWAY PLAN
STA 43+00 TO STA 47+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

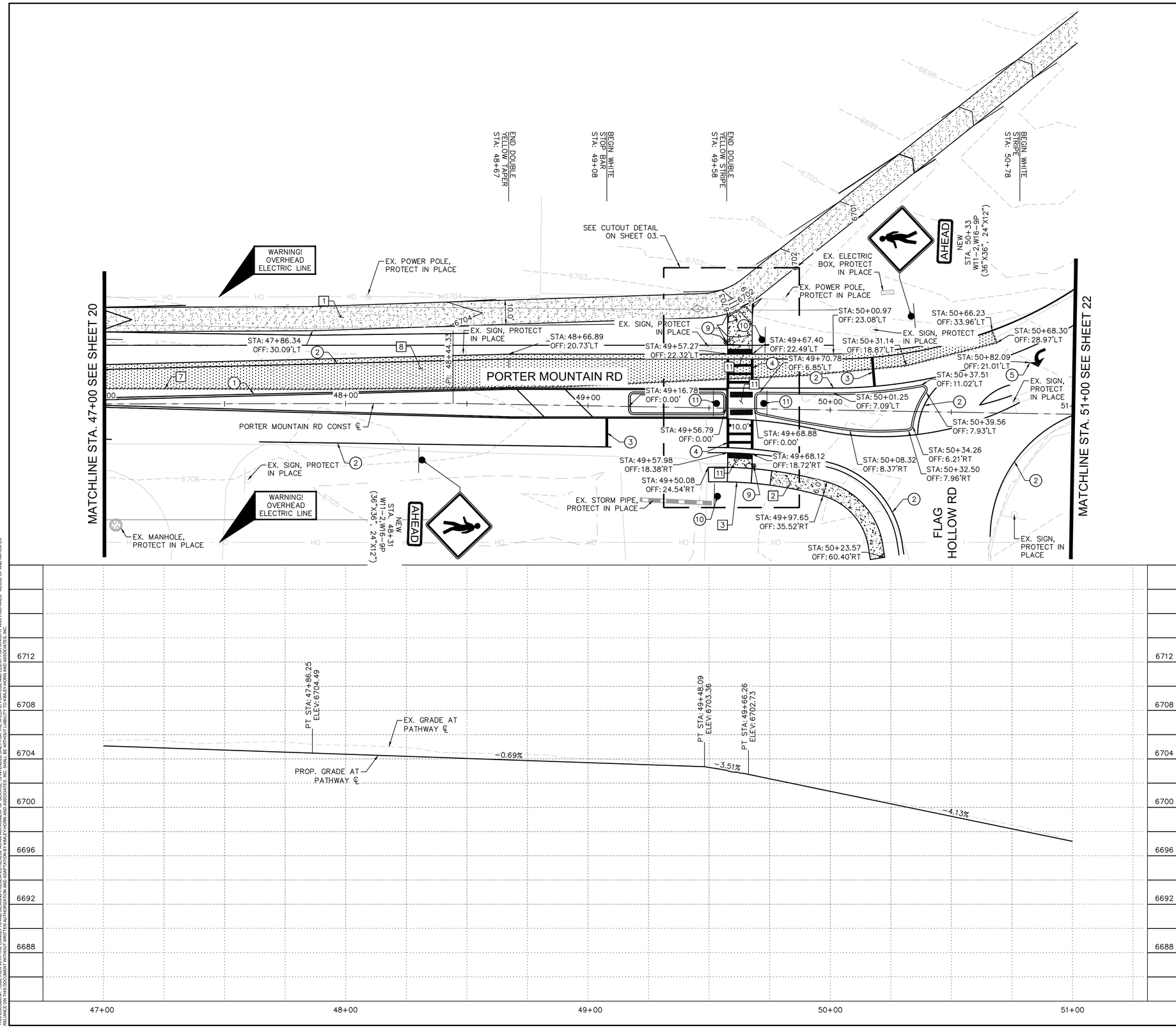
NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PROJECT NO. 291056010

DRAWING NAME RD09



ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
2	CONSTRUCT 4" CONCRETE SIDEWALK PER MAG STD DTL 230, 6' WIDE.
3	CONSTRUCT CURB RAMP PER MAG STD DTL 236-5.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.
11	TRUNCATED DOMES

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).
3	18" SOLID WHITE THERMOPLASTIC STOP BAR.
4	12" WHITE THERMOPLASTIC CROSSING PAVEMENT MARKING WITH 24" SPACING PER ADOT STD DTL M-2.
5	WHITE THERMOPLASTIC LEFT ARROW PAVEMENT MARKING.
9	PEDESTRIAN PUSH BUTTON PER DETAIL ON SHEET 03.
10	PROPOSED SIGN ON NEW SIGN POST PER DETAIL ON SHEET 03.
11	NEW RECTANGULAR RAPID FLASHING BEACON PER DETAIL ON SHEET 03.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ROADWAY PLAN
STA 47+00 TO STA 51+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

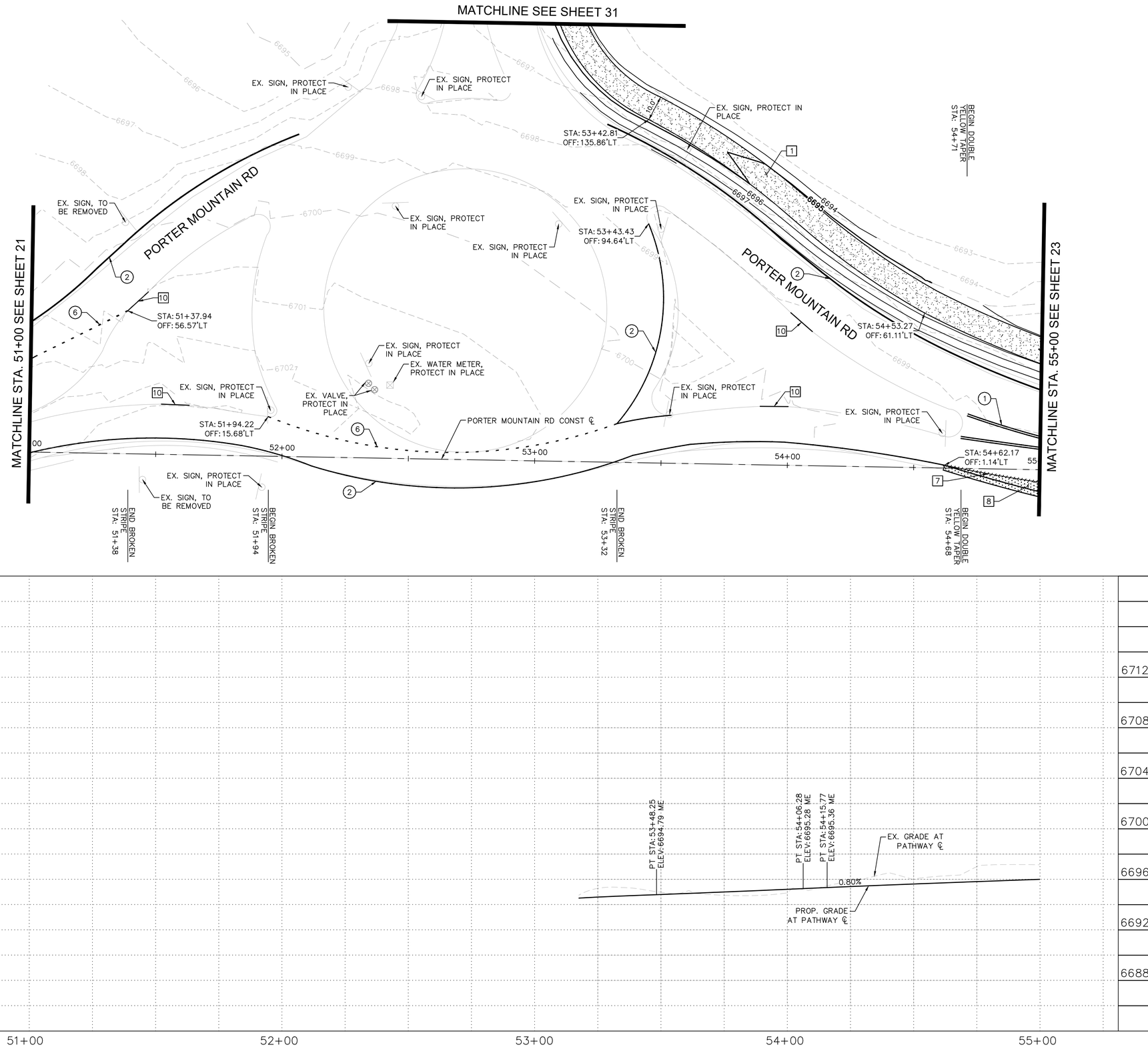
PROJECT NO. 291056010

DRAWING NAME RD10

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.
10	INSTALL 6" VERTICAL SINGLE CURB PER MAG STD DTL 222, TYPE A.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).
6	4" BROEKN WHITE STRIPE, 3' LINE SEGMENT WITH 9' BROKEN GAP (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 51+00 TO STA 55+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

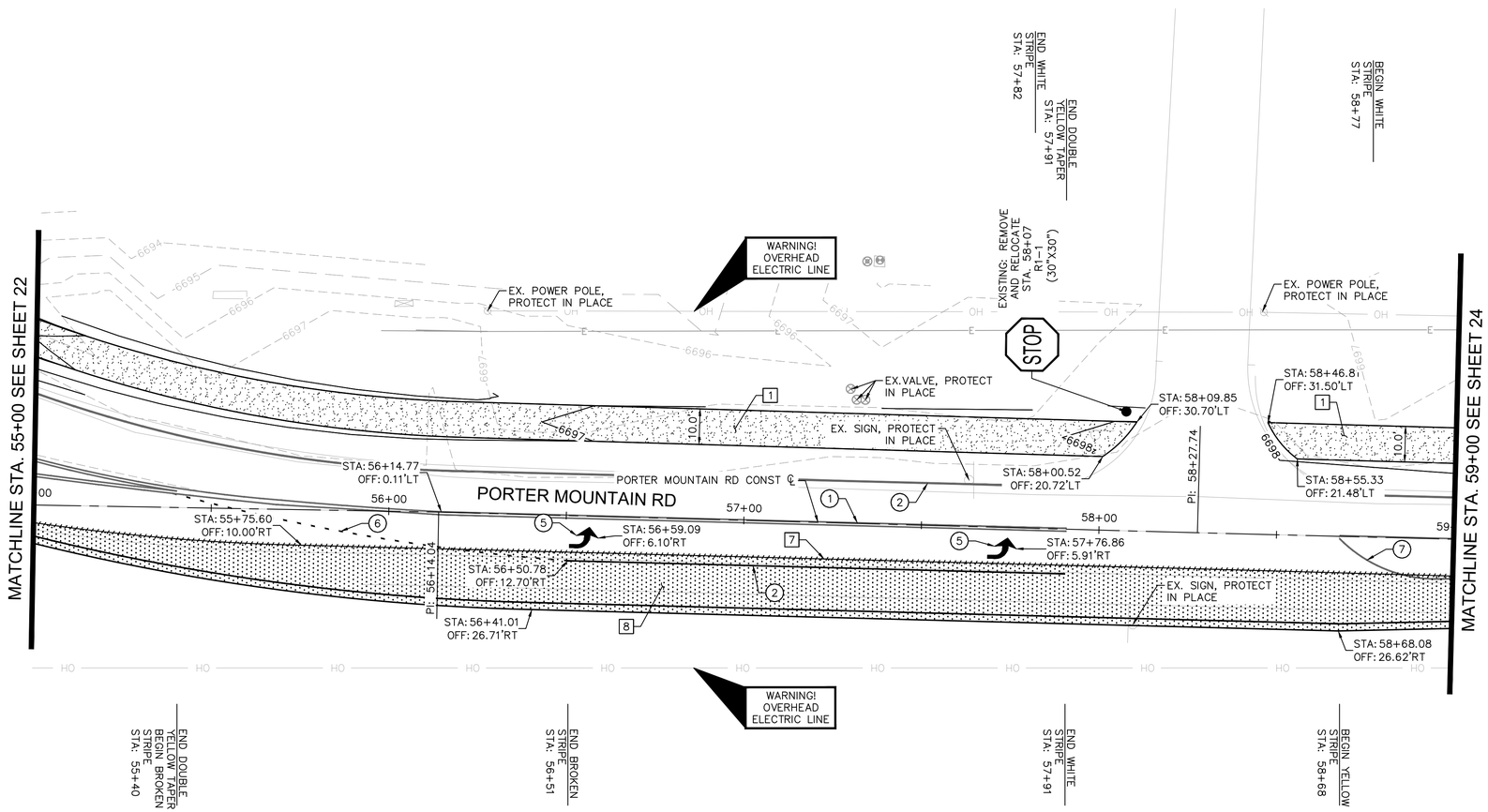
PROJECT NO.
291056010

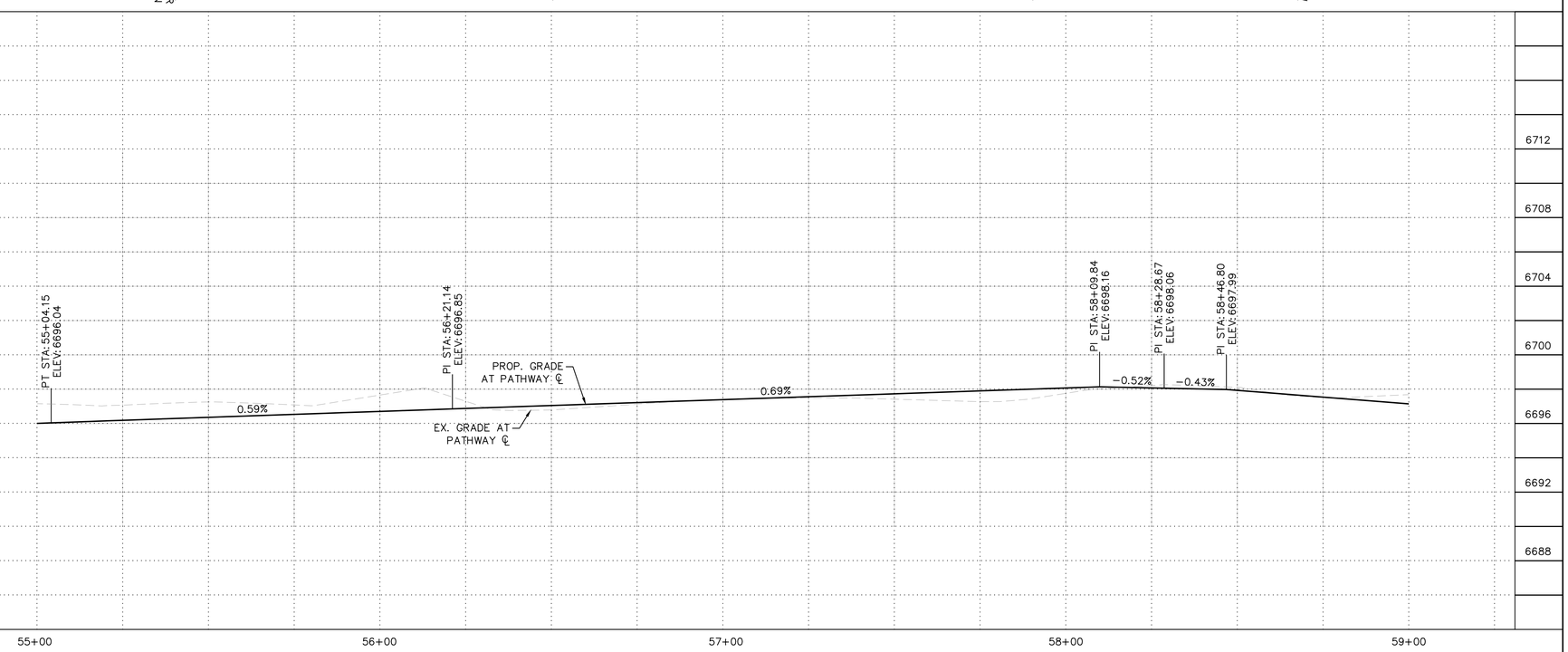
DRAWING NAME
RD11

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).
5	WHITE THERMOPLASTIC LEFT ARROW PAVEMENT MARKING.
6	4" BROEKN WHITE STRIPE, 3' LINE SEGMENT WITH 9' BROKEN GAP (PAINT).
7	4" SOLID YELLOW STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 55+00 TO STA 59+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

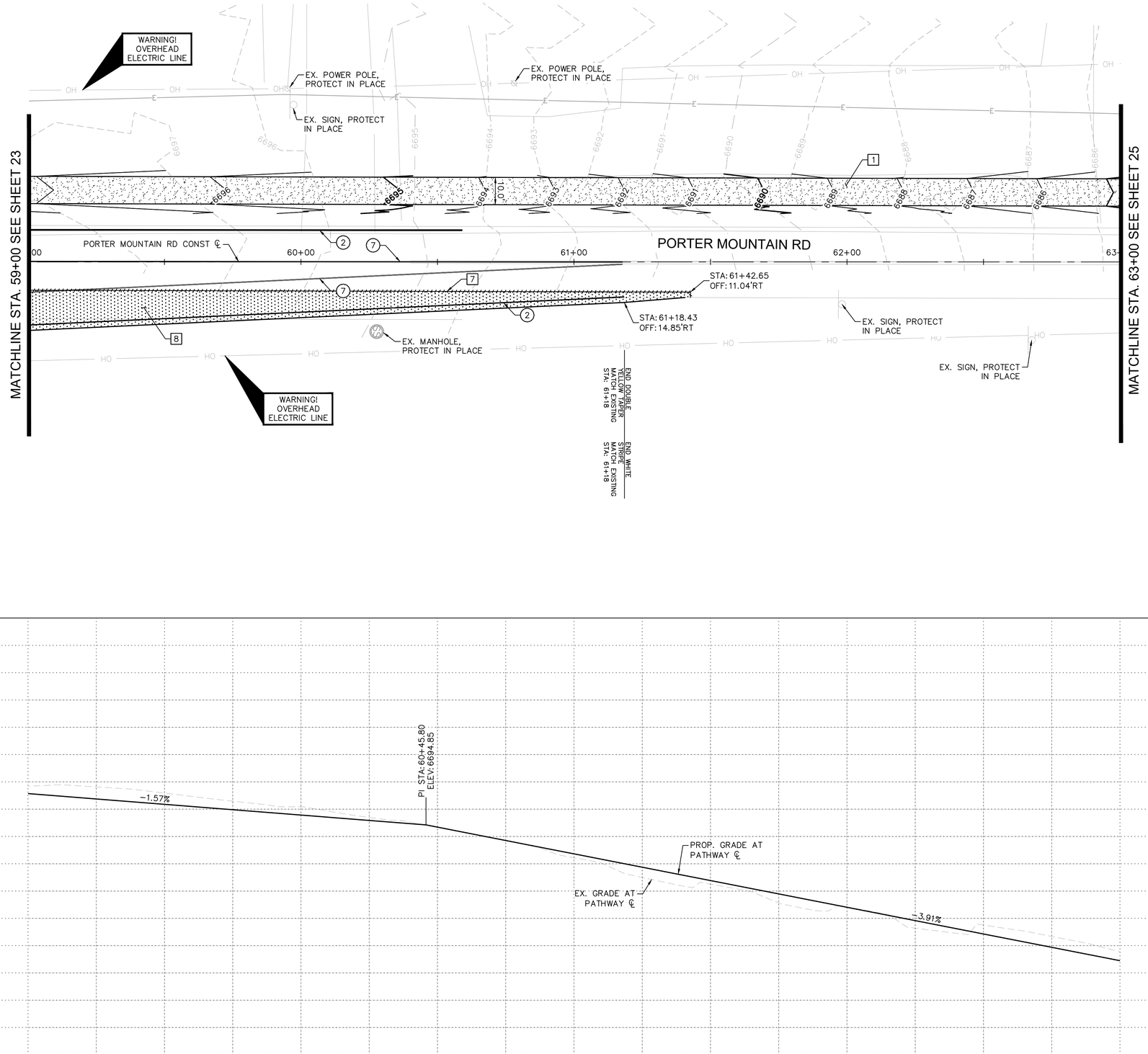
PROJECT NO. 291056010

DRAWING NAME RD12

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
7	PROPOSED SAWCUT LINE.
8	AC PAVEMENT PER STRUCTURAL SECTION NO. 01 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
2	4" SOLID WHITE STRIPE (PAINT).
7	4" SOLID YELLOW STRIPE (PAINT).

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ROADWAY PLAN
STA 59+00 TO STA 63+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

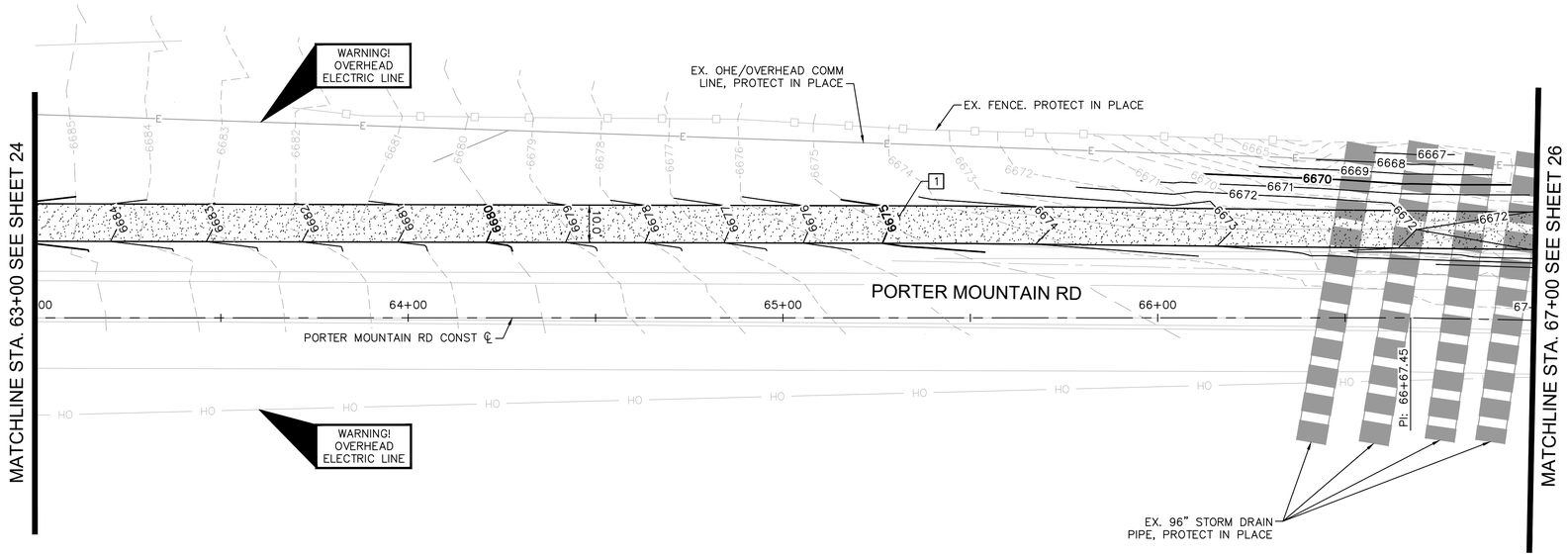
PROJECT NO. 291056010

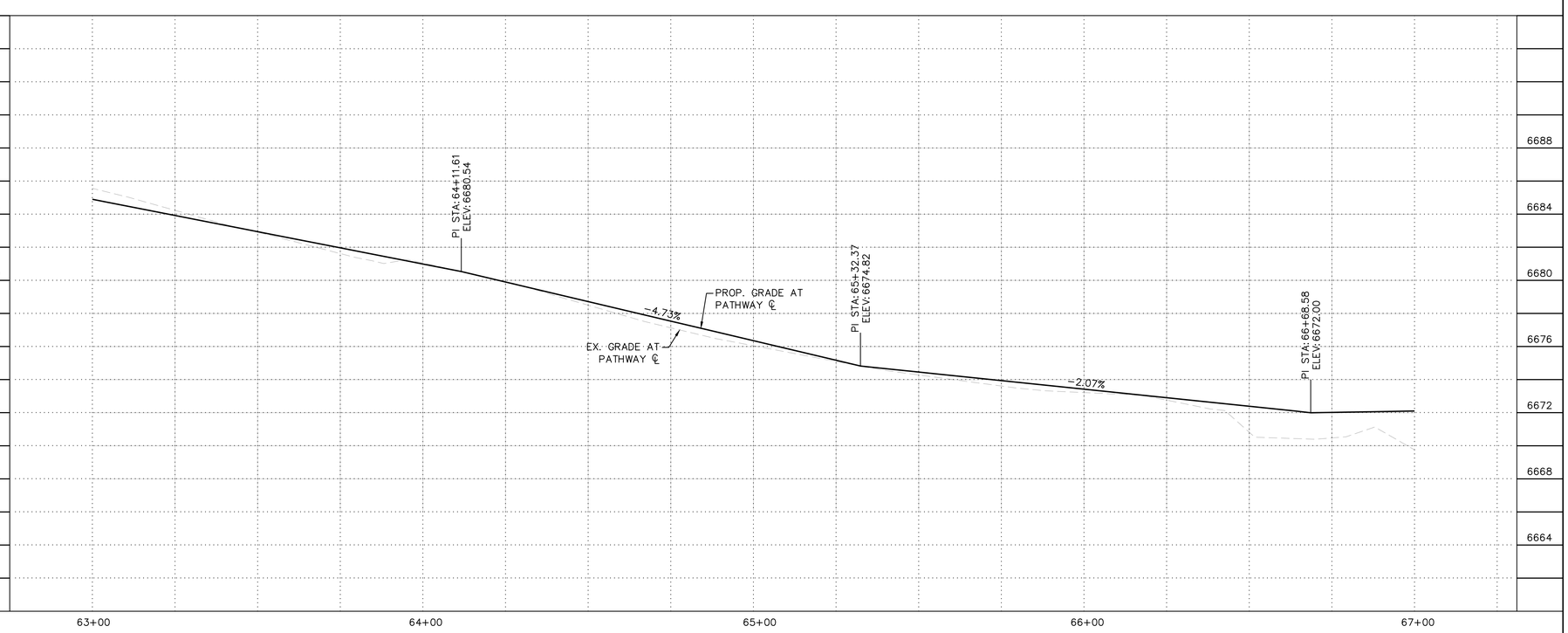
DRAWING NAME RD13

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 63+00 TO STA 67+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

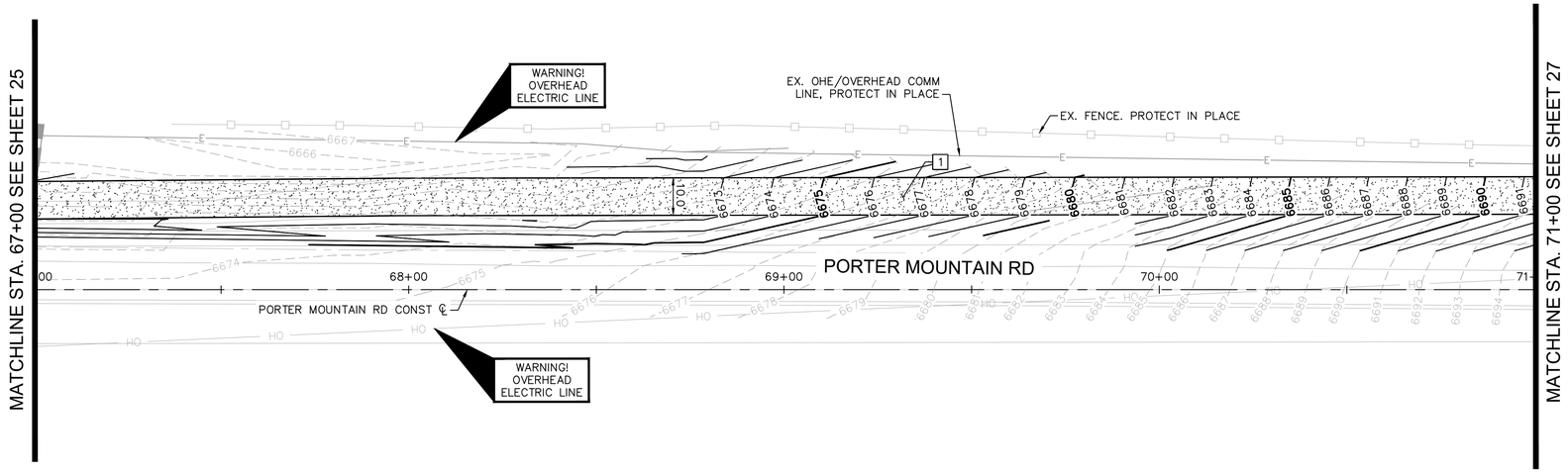
PROJECT NO.
291056010

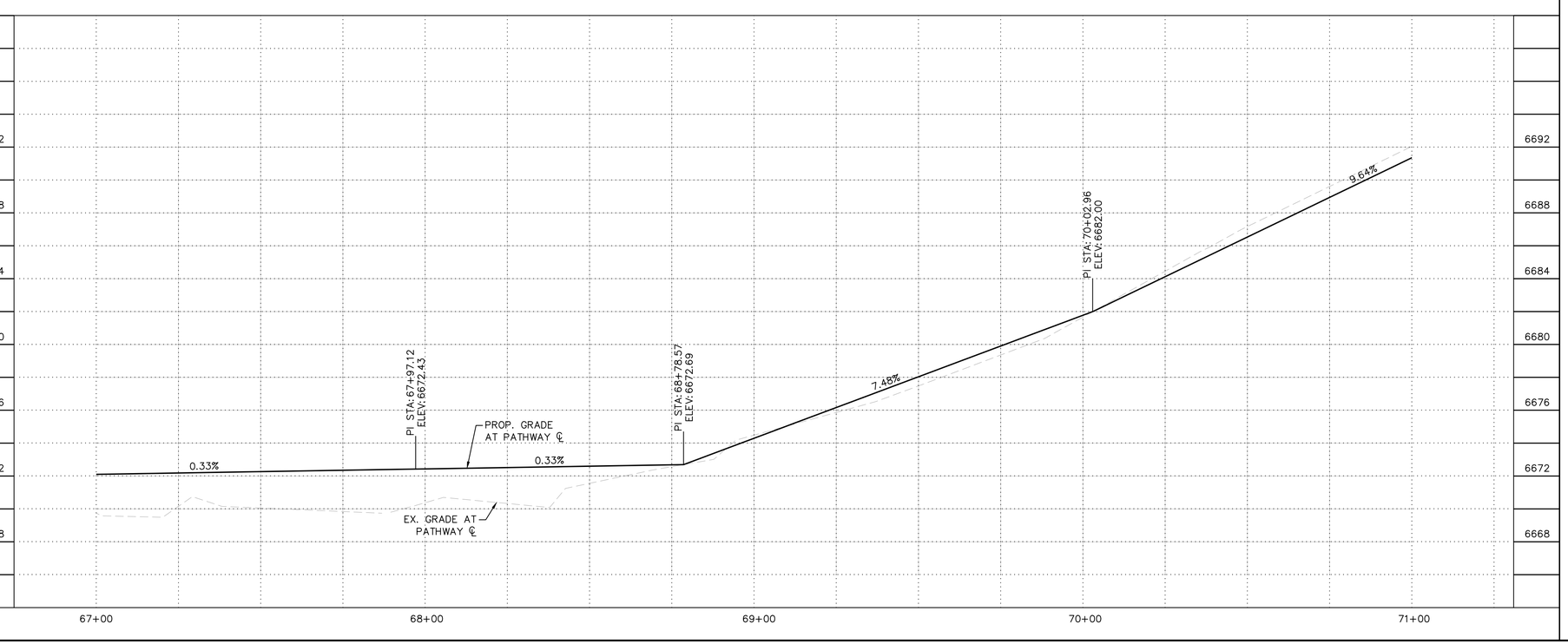
DRAWING NAME
RD14

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 67+00 TO STA 71+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

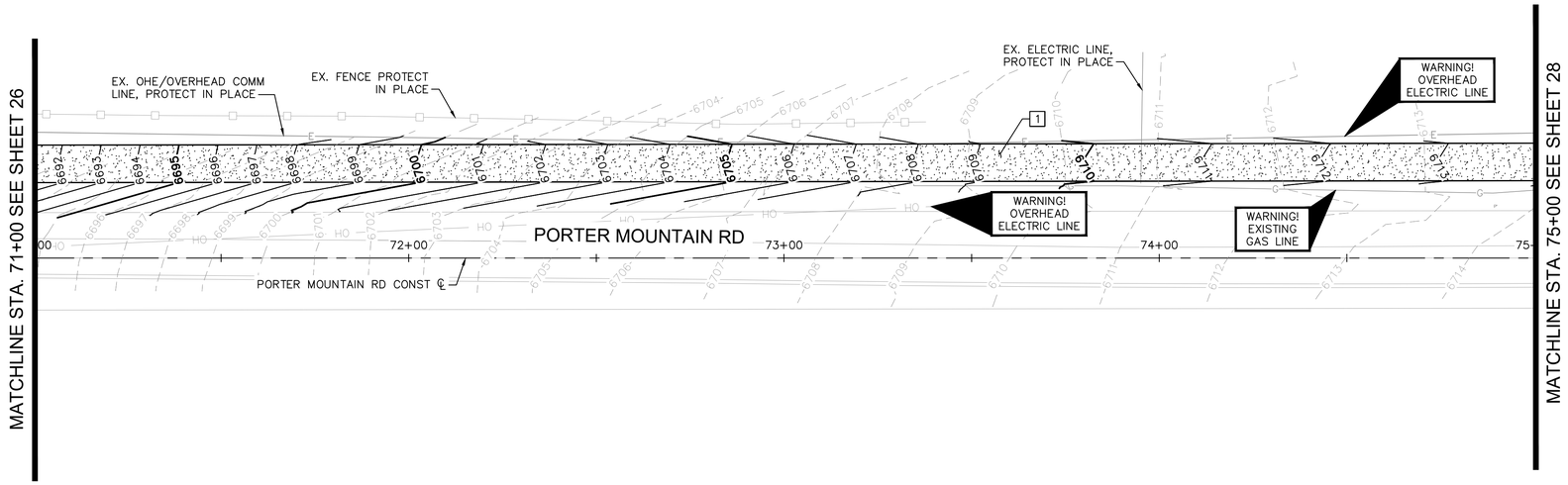
NORTH

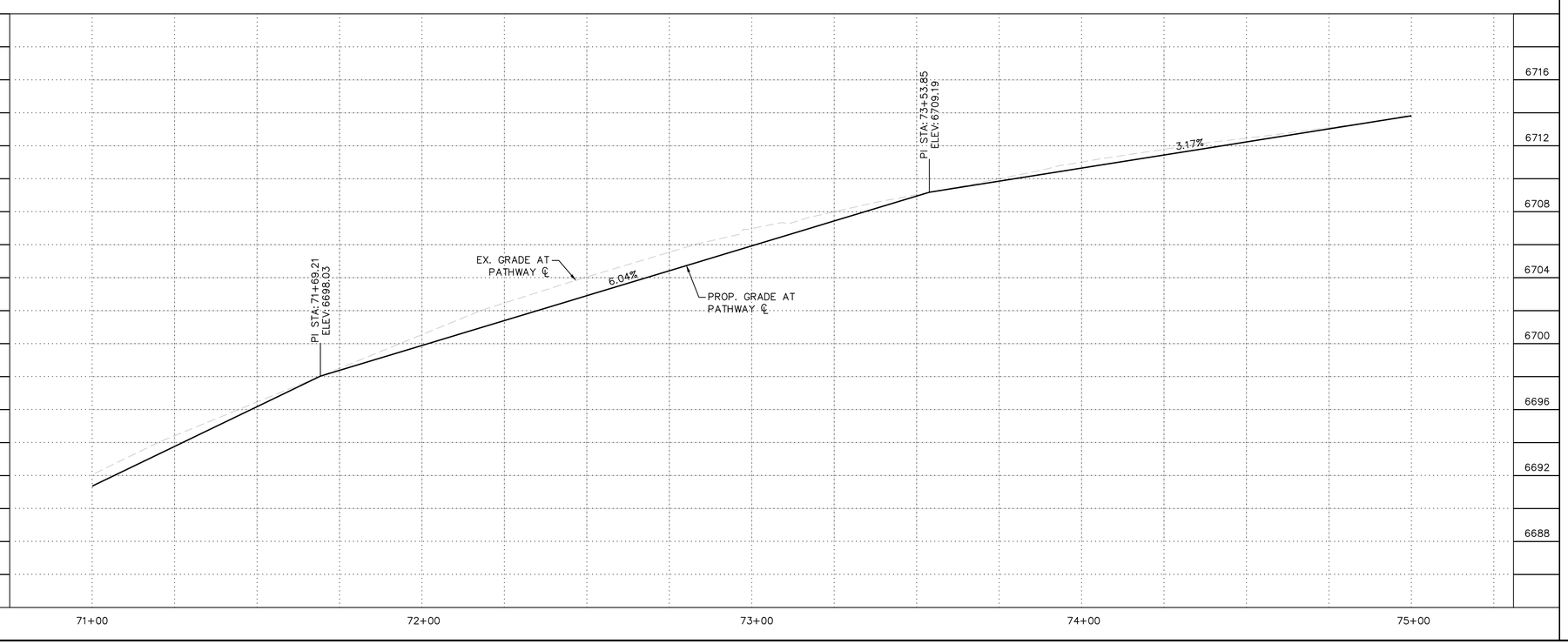
GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PROJECT NO.
291056010

DRAWING NAME
RD15





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 71+00 TO STA 75+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

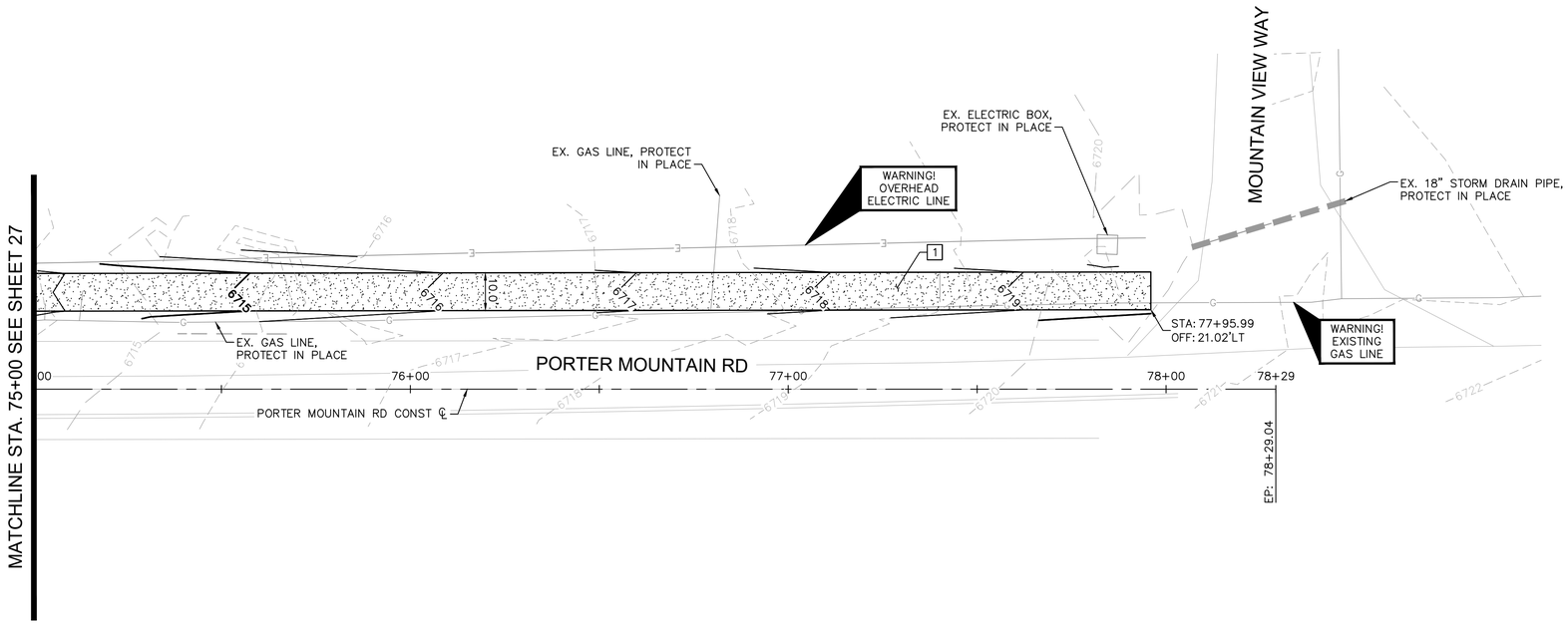
NORTH

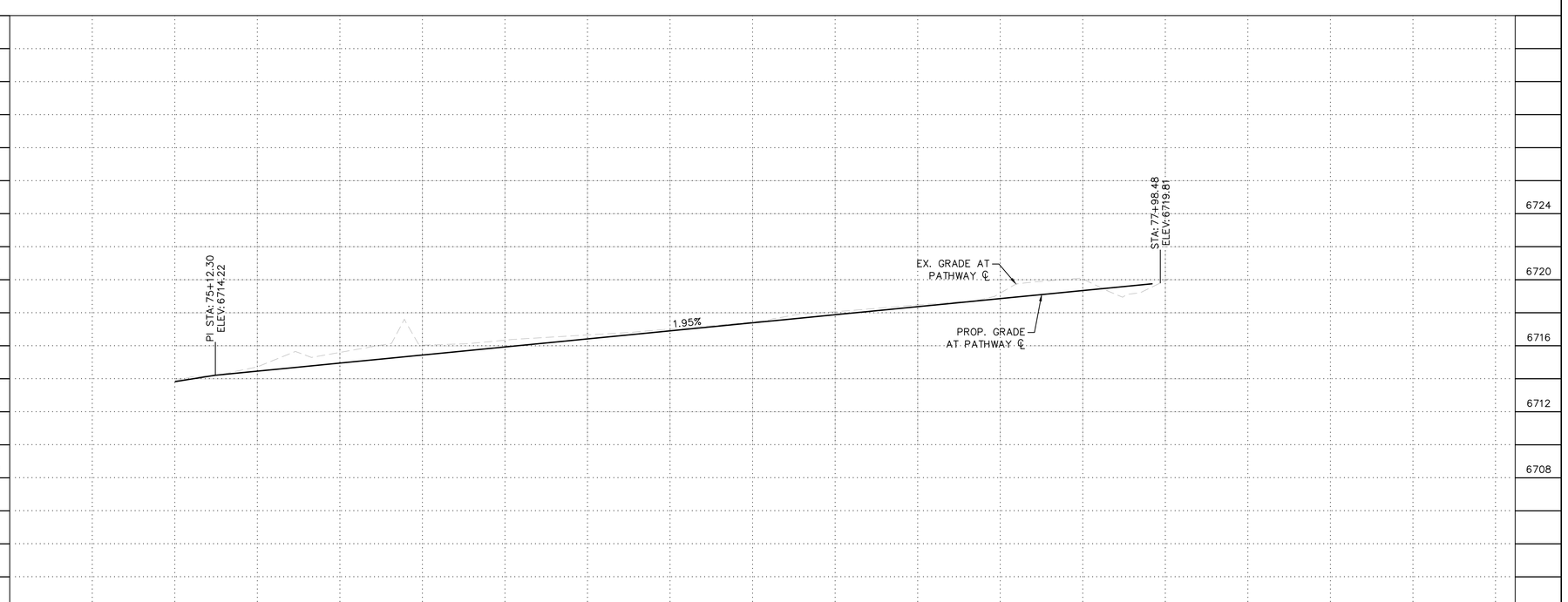
GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PROJECT NO.
291056010

DRAWING NAME
RD16





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 75+00 TO END
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

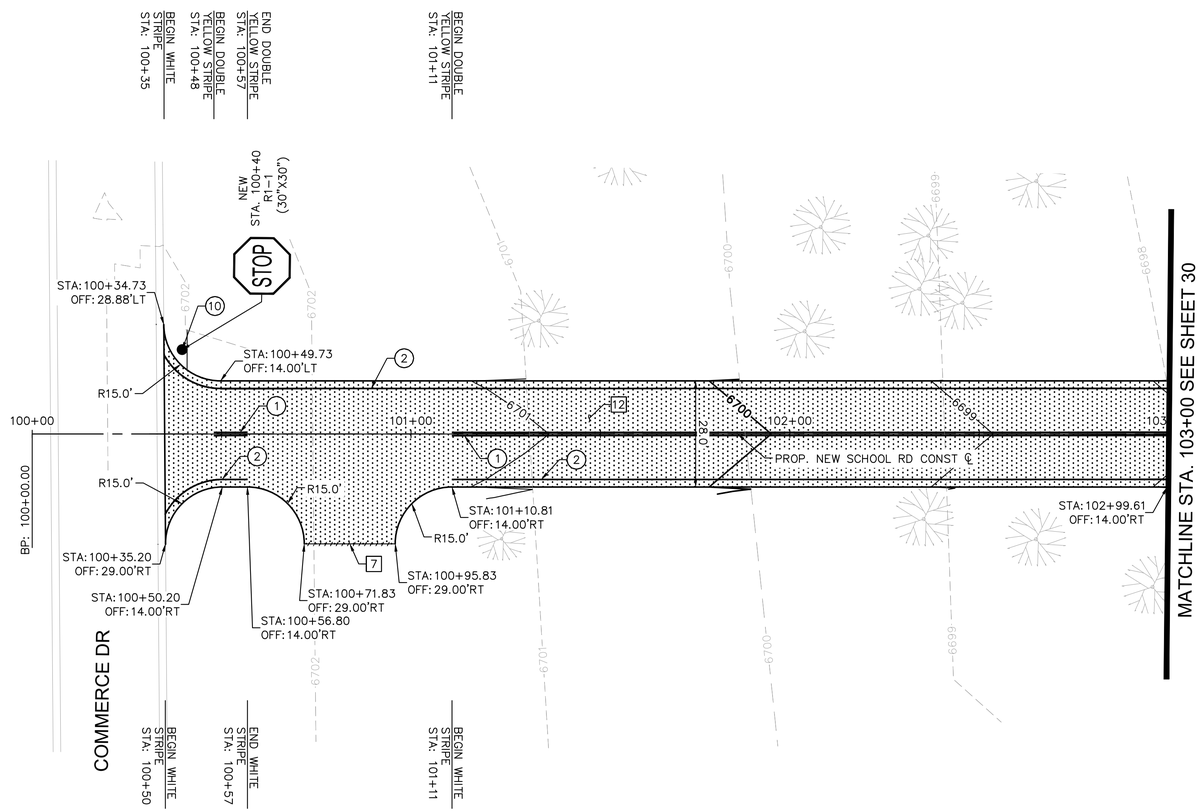
PROJECT NO.
291056010

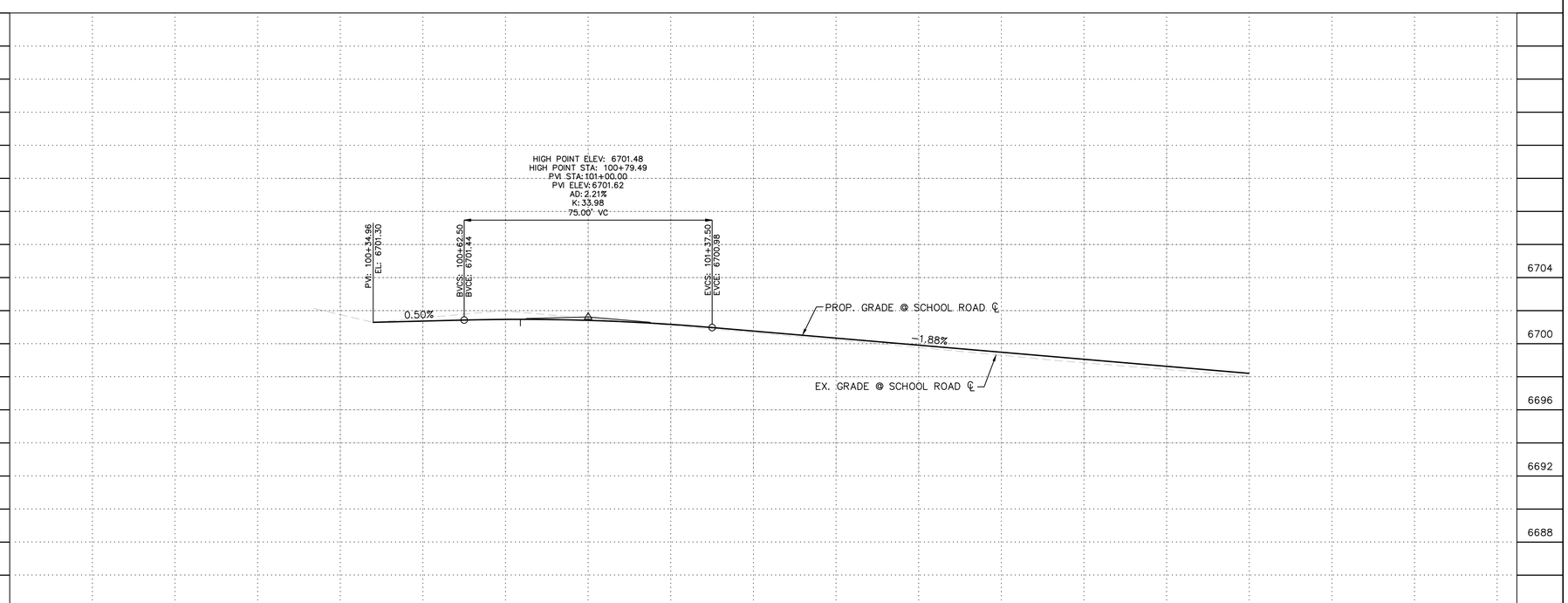
DRAWING NAME
RD17

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
7	PROPOSED SAWCUT LINE.
12	AC PAVEMENT PER STRUCTURAL SECTION NO. 03 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).
10	PROPOSED SIGN ON NEW SIGN POST PER DETAIL ON SHEET 03.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
BEEGINNING TO STA 103+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

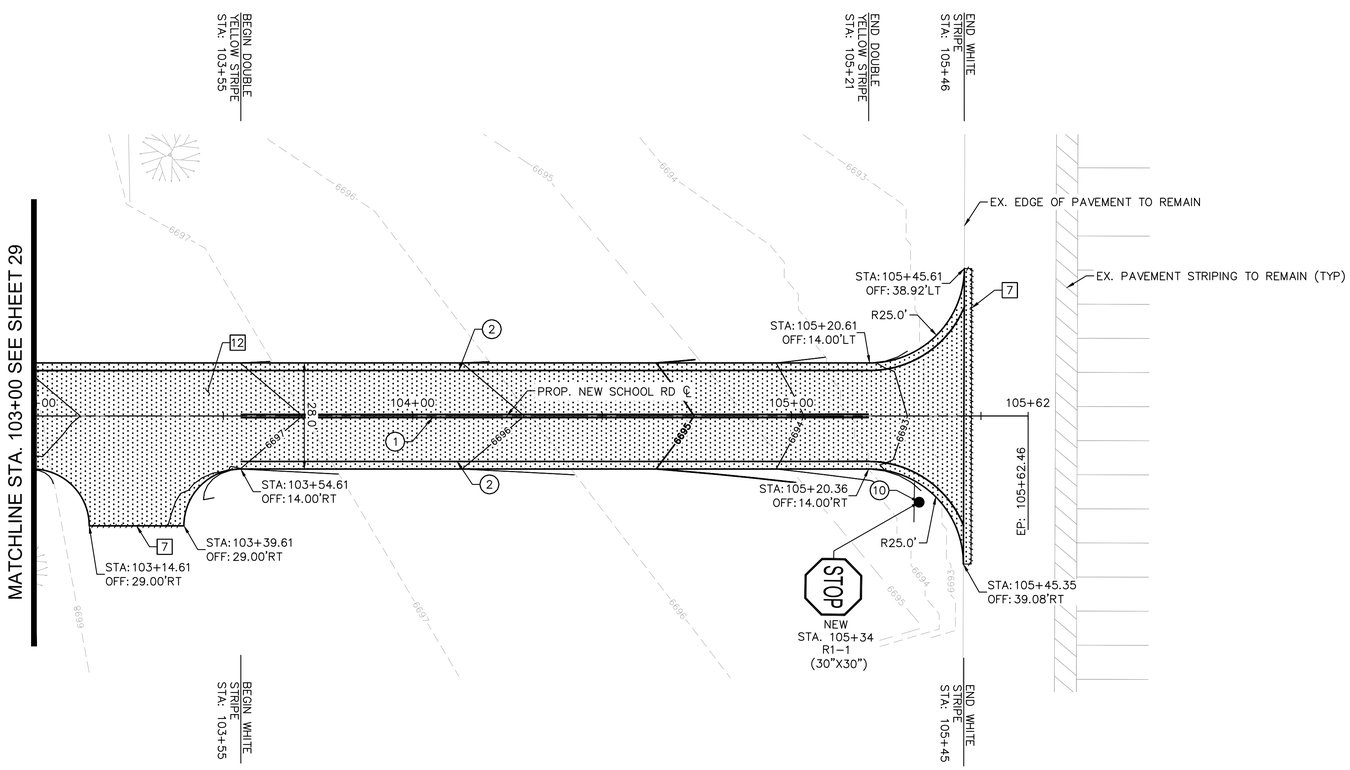
PROJECT NO.
291056010

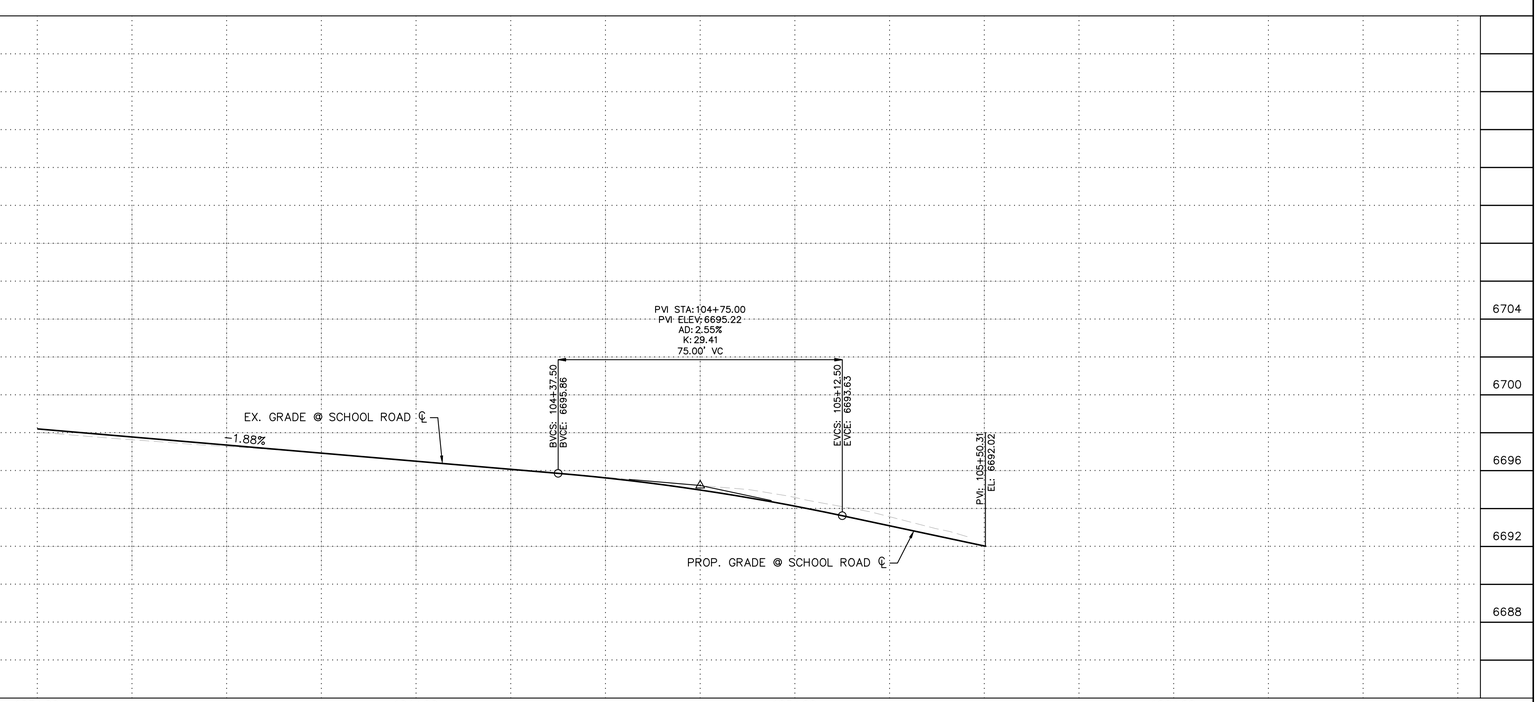
DRAWING NAME
RD18

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100





ROADWAY NOTES

NO	DESCRIPTION
7	PROPOSED SAWCUT LINE.
12	AC PAVEMENT PER STRUCTURAL SECTION NO. 03 ON SHEET 02.

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
2	4" SOLID WHITE STRIPE (PAINT).
10	PROPOSED SIGN ON NEW SIGN POST PER DETAIL ON SHEET 03.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 103+00 TO END
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

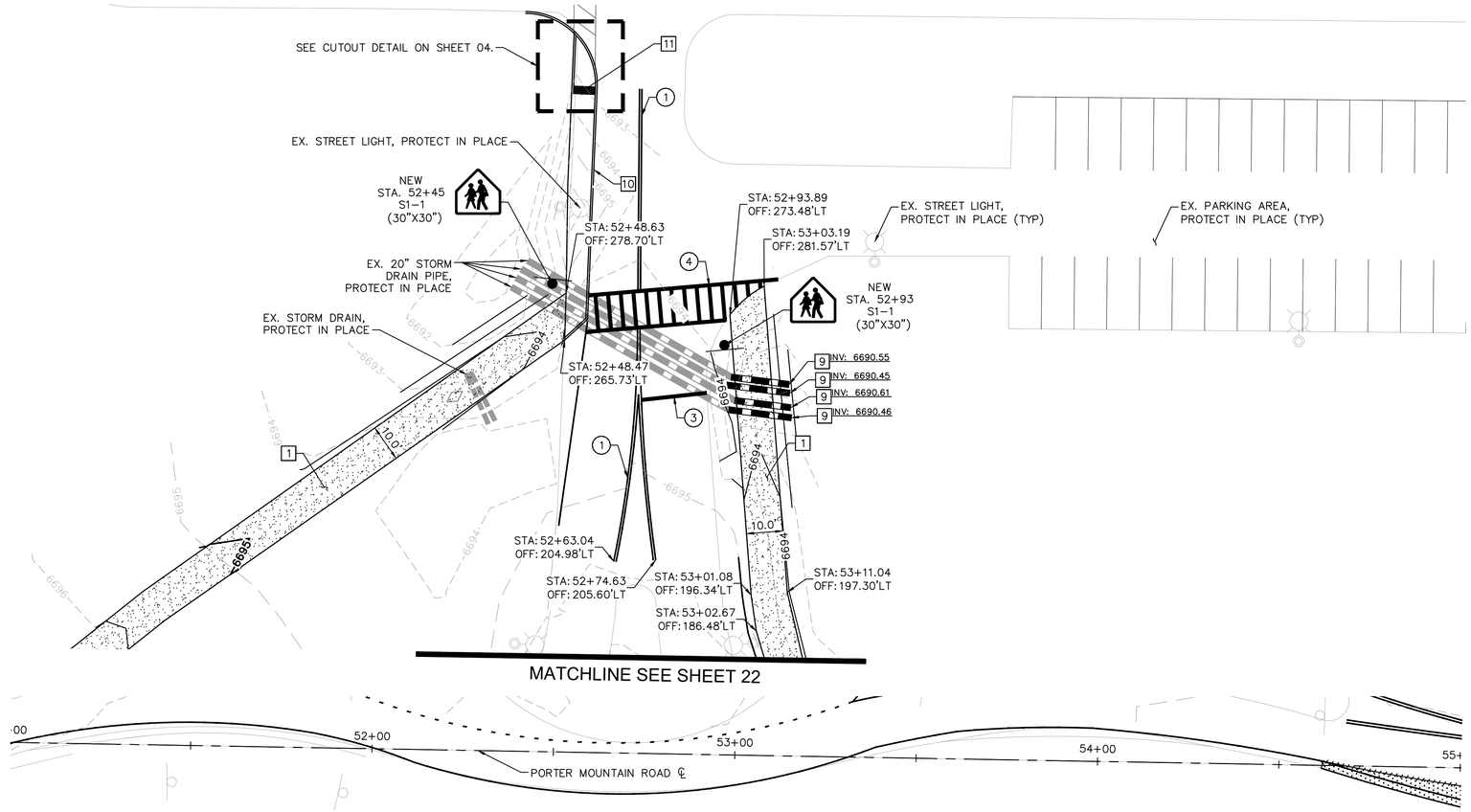
GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

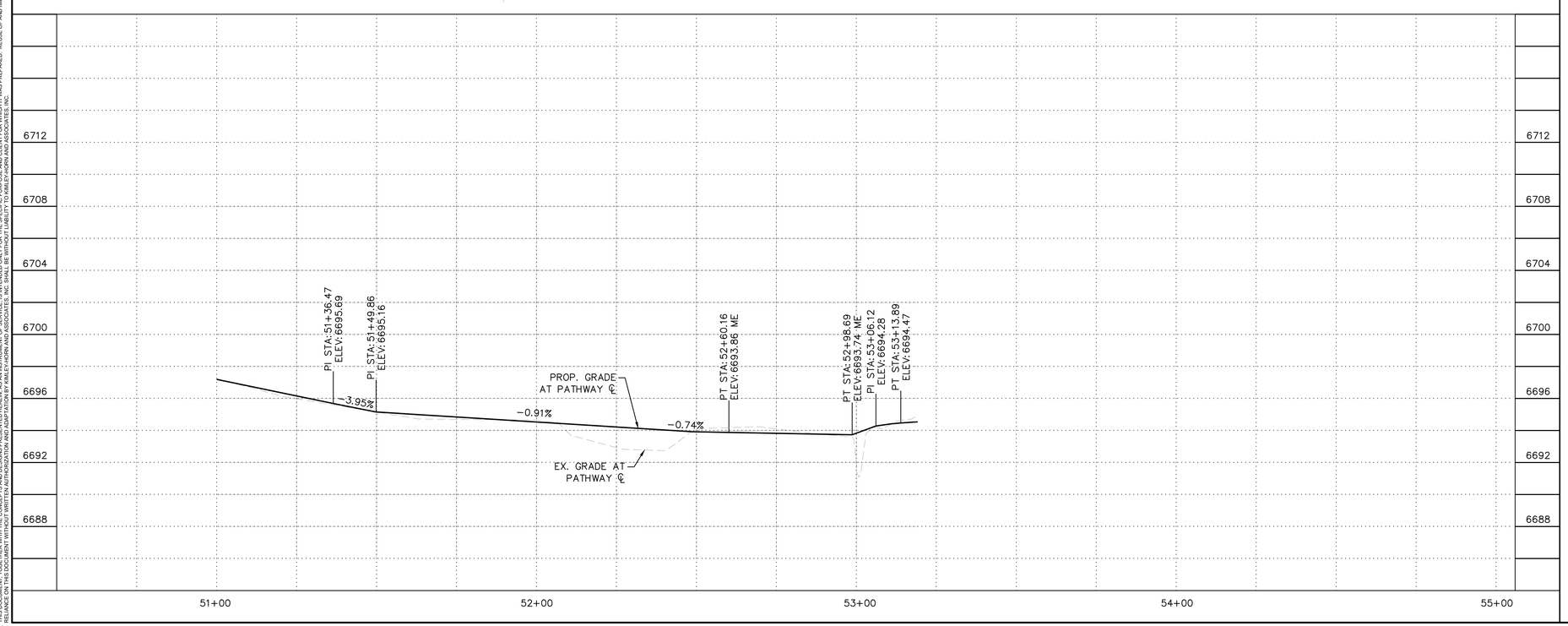
NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PROJECT NO.
291056010

DRAWING NAME
RD19





ROADWAY NOTES

NO	DESCRIPTION
1	AC PAVEMENT PER STRUCTURAL SECTION NO. 02 ON SHEET 02, 10' WIDE.
3	CONSTRUCT CURB RAMP PER MAG STD DTL 238-3.
9	INSTALL 20" STORM DRAIN PIPE, MATCH EXISTING MATERIAL.
10	INSTALL 6" VERTICAL SINGLE CURB PER MAG STD DTL 222, TYPE A.
11	TRUNCATED DOMES

SIGNING AND MARKING NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT).
3	18" SOLID WHITE THERMOPLASTIC STOP BAR.
4	12" WHITE THERMOPLASTIC CROSSING PAVEMENT MARKING WITH 24" SPACING PER ADOT STD DTL M-2.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2 4 8
VERTICAL

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ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

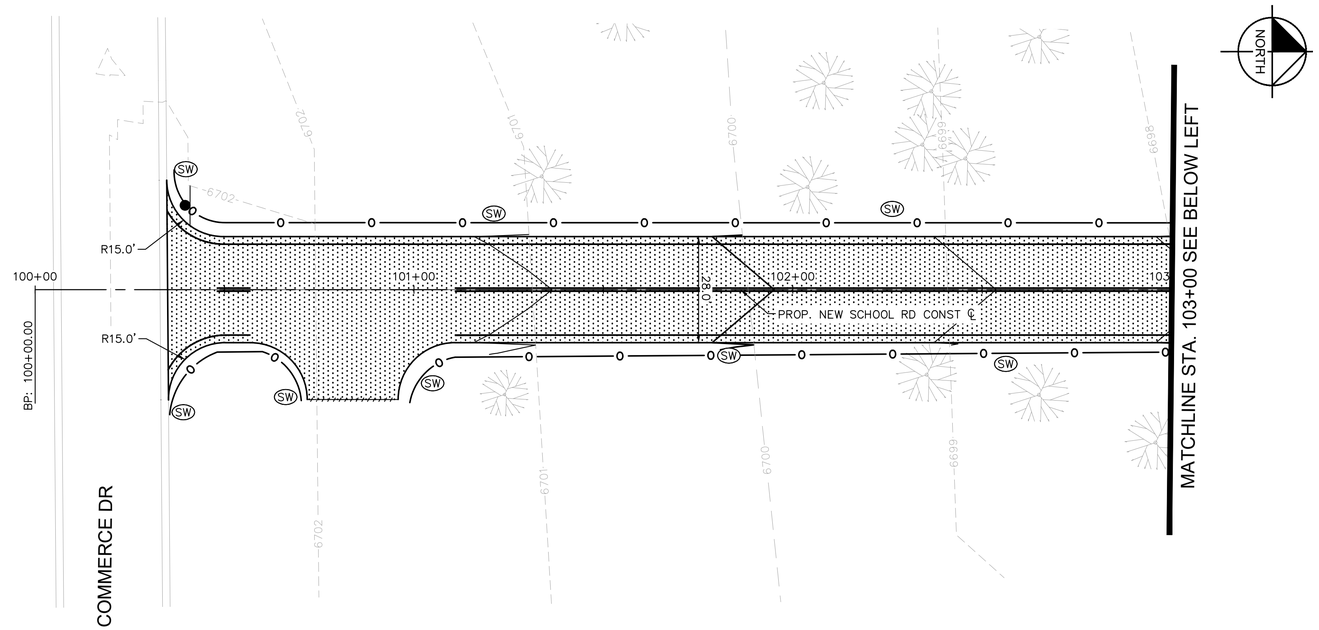
SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

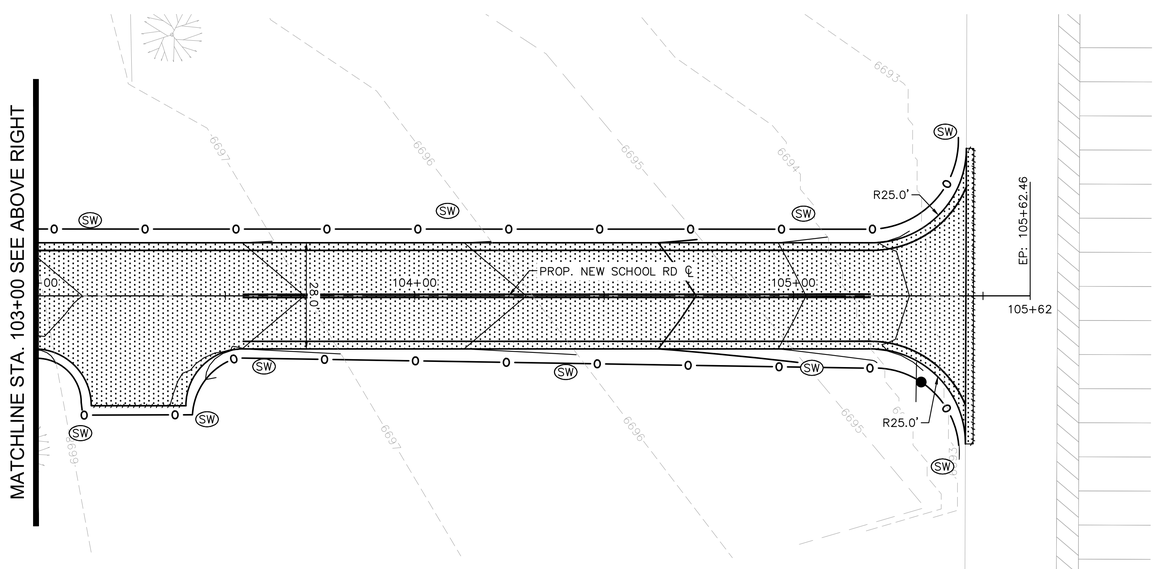
PORTER MOUNTAIN ROAD
IMPROVEMENTS
ROADWAY PLAN
STA 51+00 TO STA 55+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/23/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
RD20





TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	1,065
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	0

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

GRAPHIC SCALE IN FEET
0 10 20 40

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

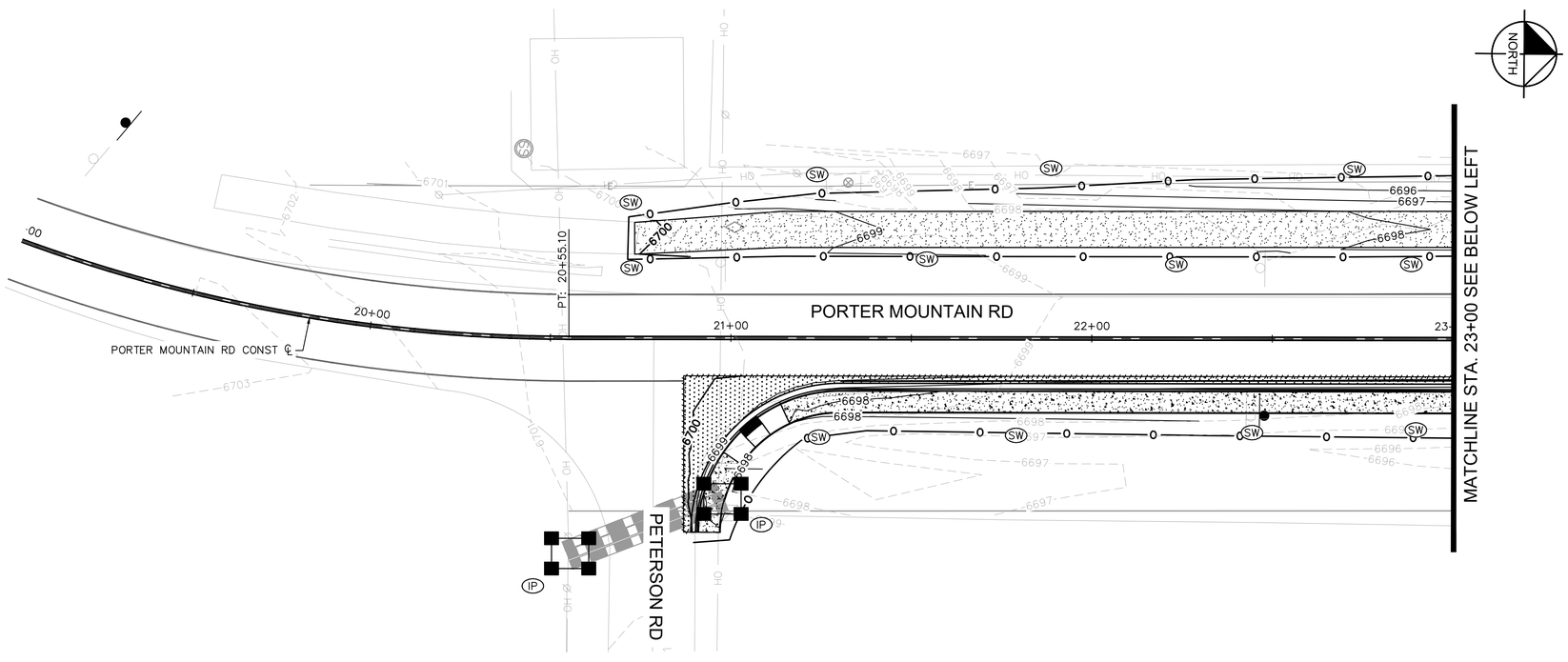
SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

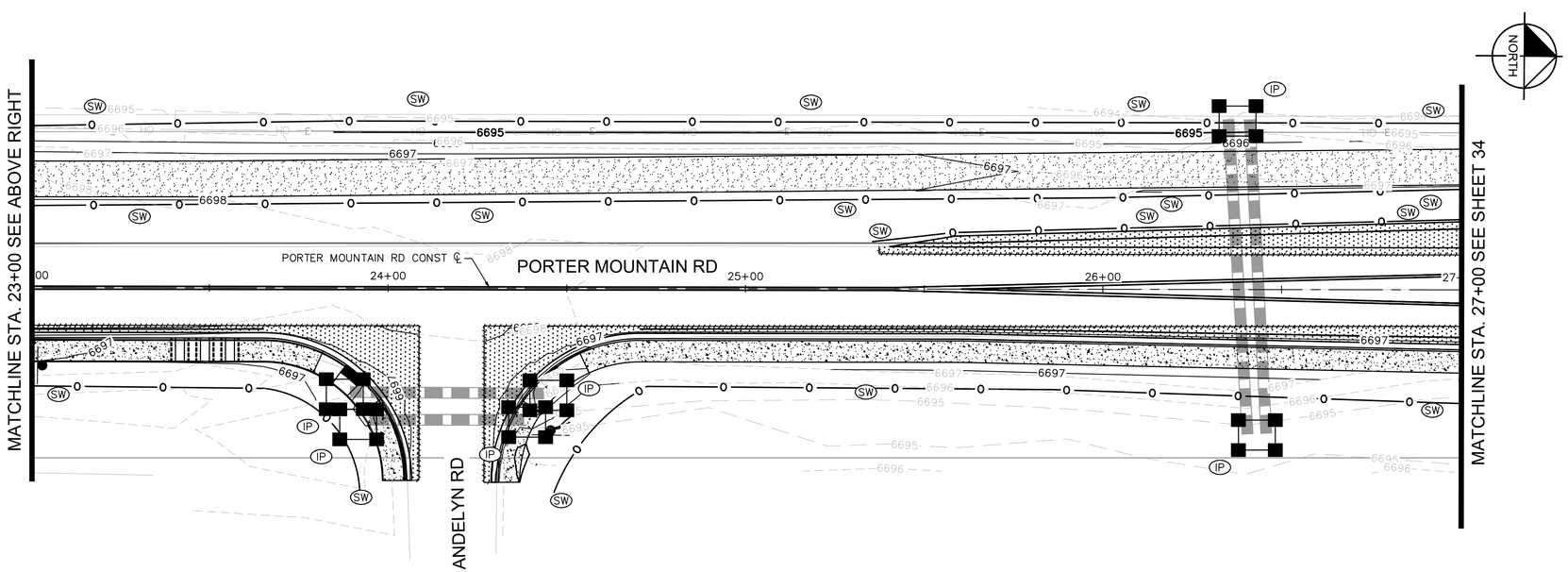
PORTER MOUNTAIN ROAD
IMPROVEMENTS
EROSION CONTROL PLAN
100+00 TO END
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
EC01





TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	2,036
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	8

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
EROSION CONTROL PLAN
STA 19+00 TO STA 27+00
PINETOP-LAKESIDE LAKESIDE, AZ

GRAPHIC SCALE IN FEET
0 10 20 40

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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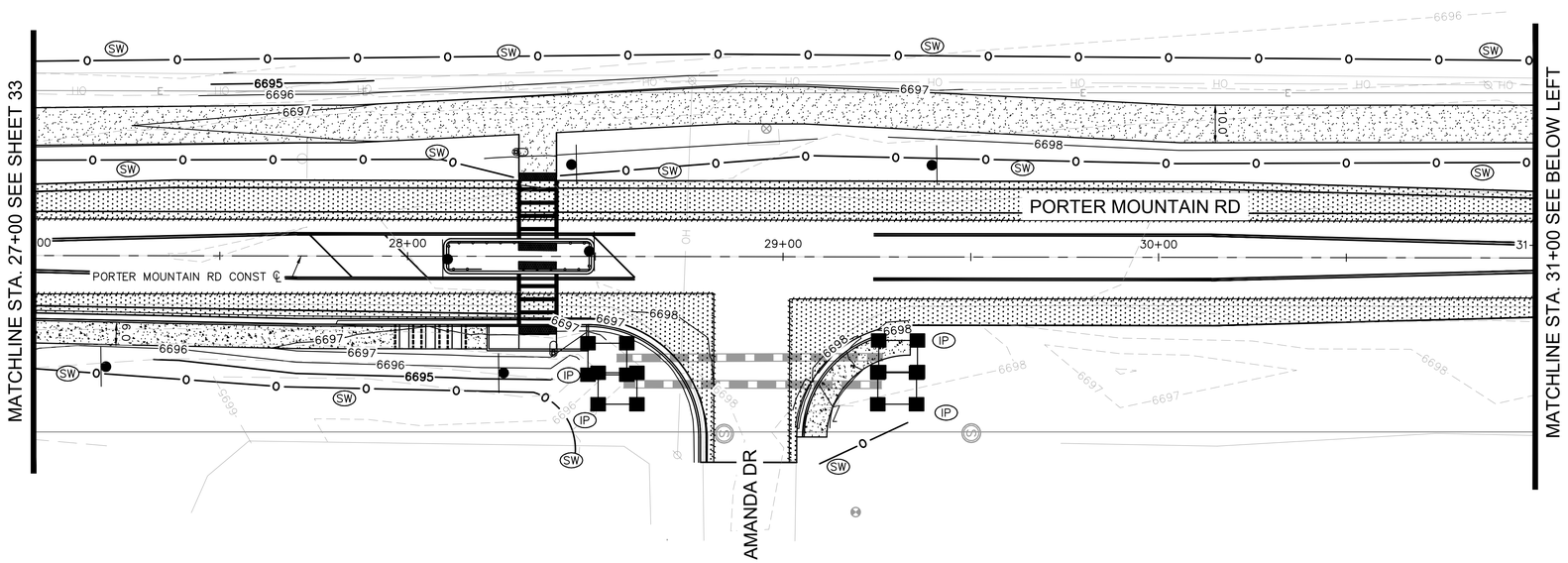
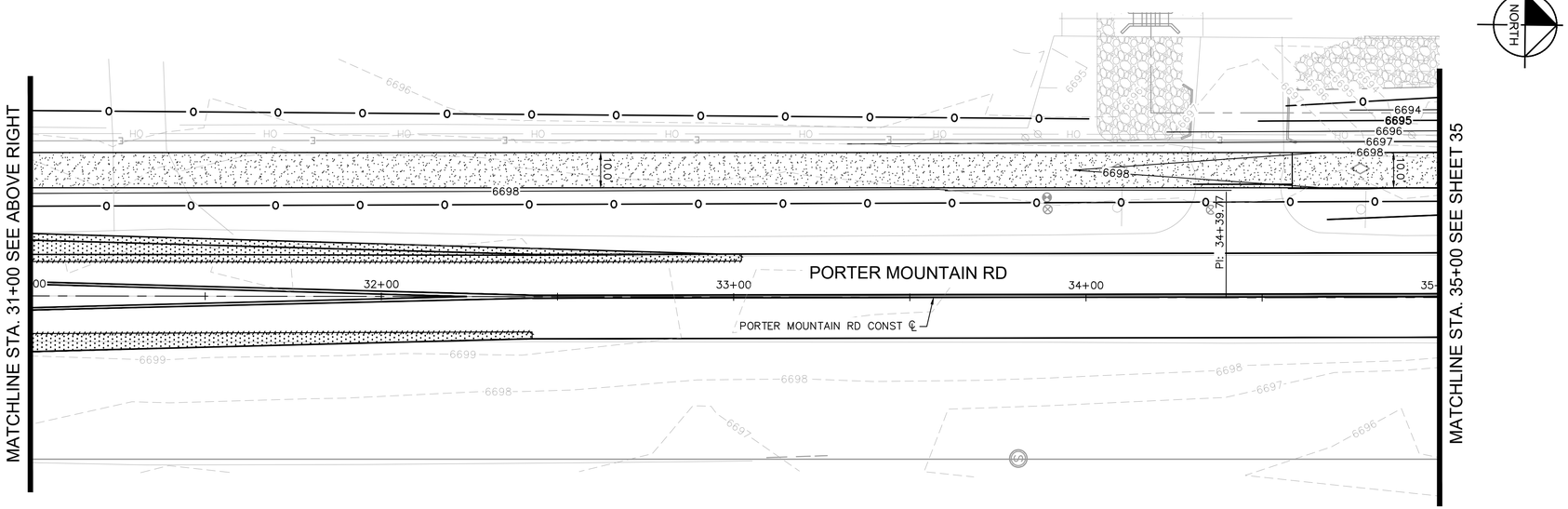
In Maricopa County: (602) 263-1100

PROJECT NO. 291056010

DRAWING NAME EC02





TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	1,670
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	4

STORM WATER MANAGEMENT LEGEND

- SW — SEDIMENT WATTLE BMP SC-5
- IP — STORM DRAIN INLET PROTECTION BMP SC-8

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1"=20'
SCALE (V): 1"=4'
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
EROSION CONTROL PLAN
STA 27+00 TO STA 35+00
PINETOP-LAKESIDE LAKESIDE, AZ

GRAPHIC SCALE IN FEET
0 10 20 40

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

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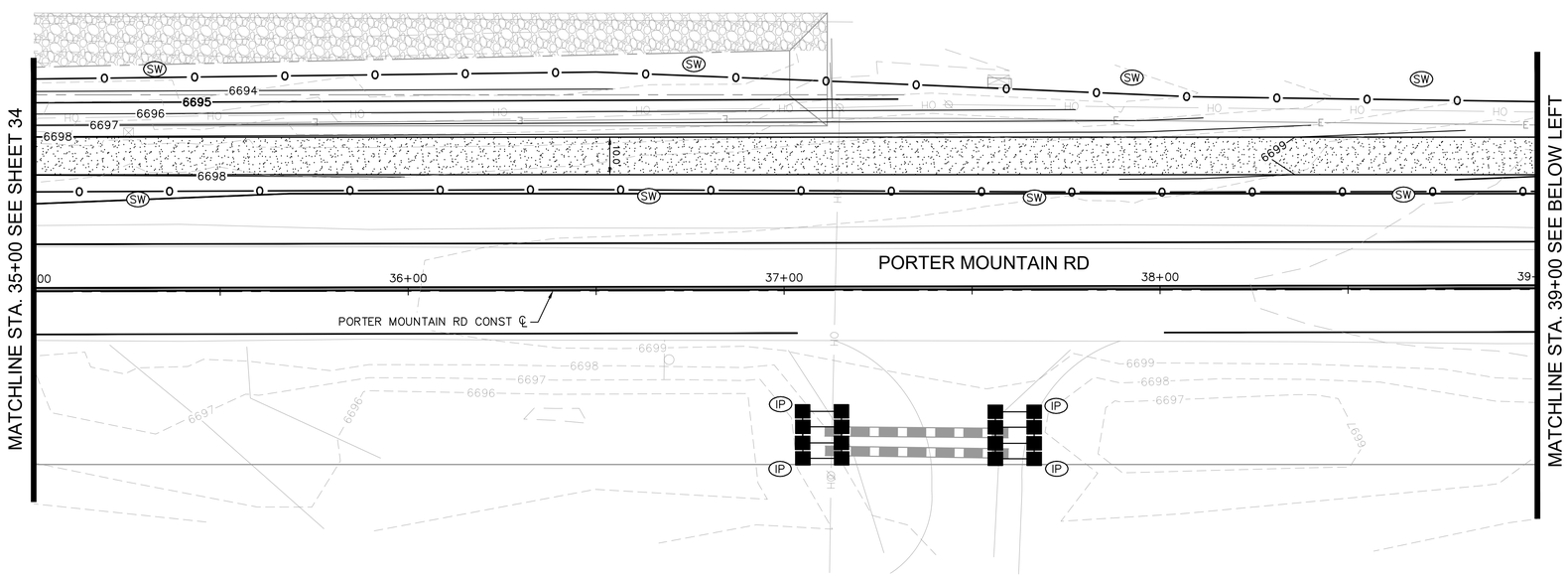
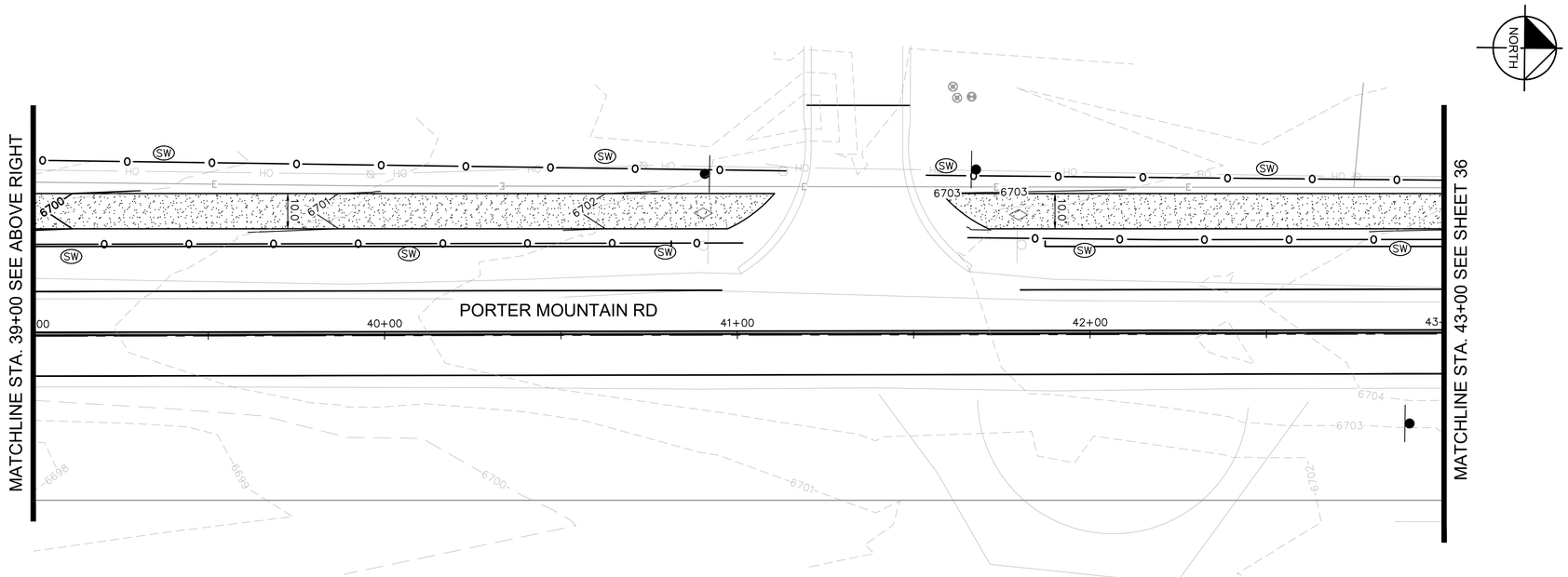
PROJECT NO.
291056010

DRAWING NAME
EC03





TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	1,497
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	4

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

GRAPHIC SCALE IN FEET
0 10 20 40

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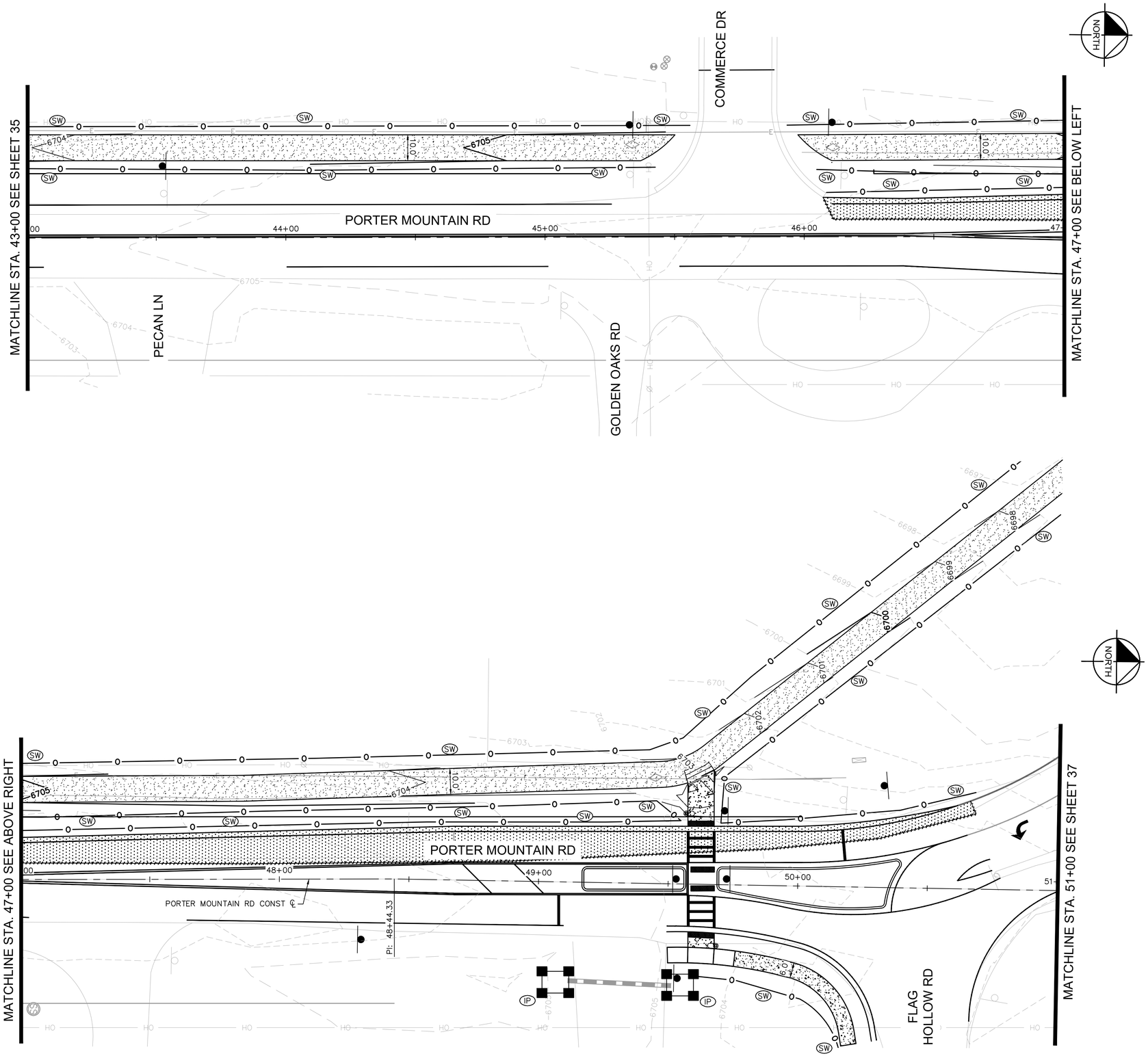
PORTER MOUNTAIN ROAD
IMPROVEMENTS
EROSION CONTROL PLAN
STA 45+00 TO STA 43+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
EC04



TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	2,112
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	2

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

GRAPHIC SCALE IN FEET
0 10 20 40

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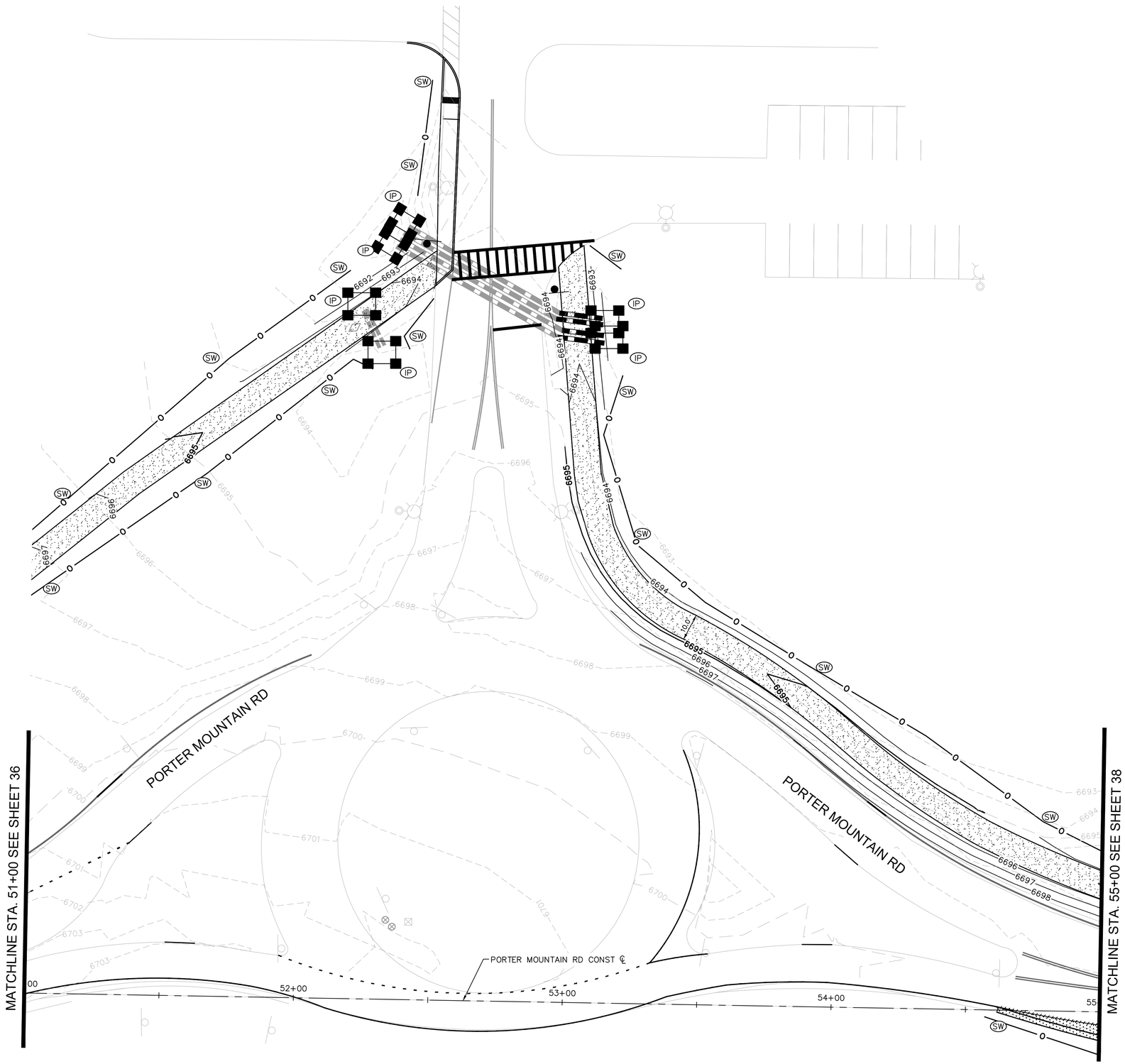
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
EROSION CONTROL PLAN
STA 43+00 TO STA 51+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO. 291056010

DRAWING NAME EC05



TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	711
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	6

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

NO.	REVISION	BY	DATE	APPR.

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DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
EROSION CONTROL PLAN
STA 51+00 TO STA 55+00
PINETOP-LAKESIDE LAKESIDE, AZ

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
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ARIZONA, U.S.A.

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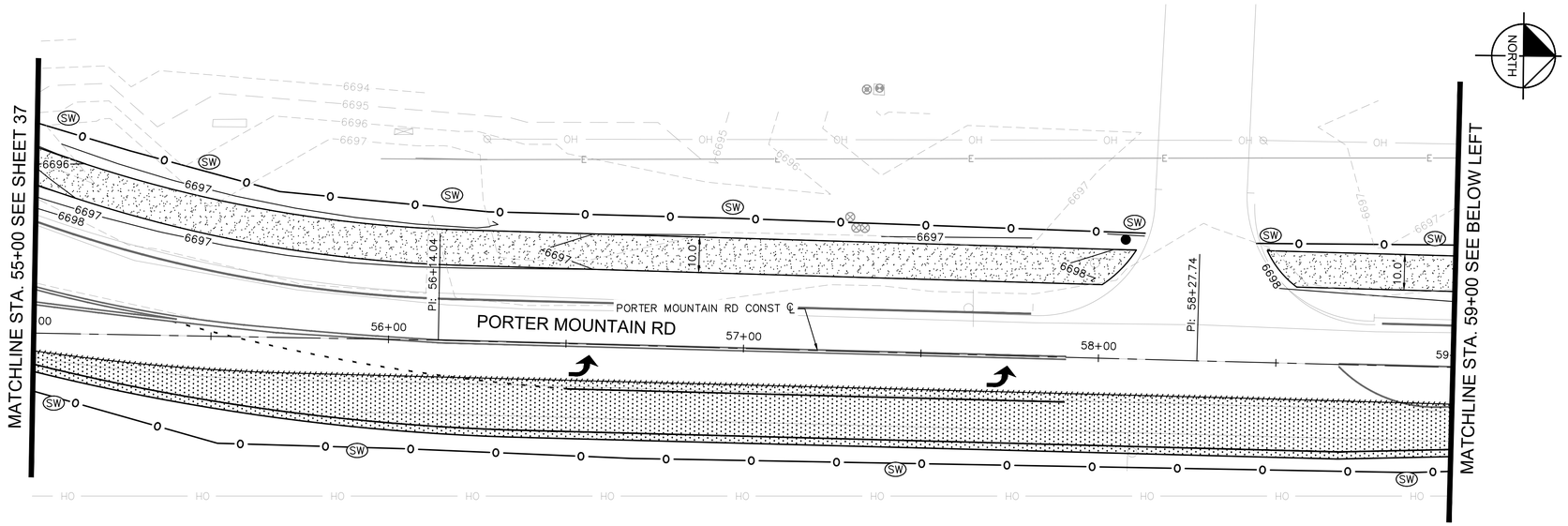
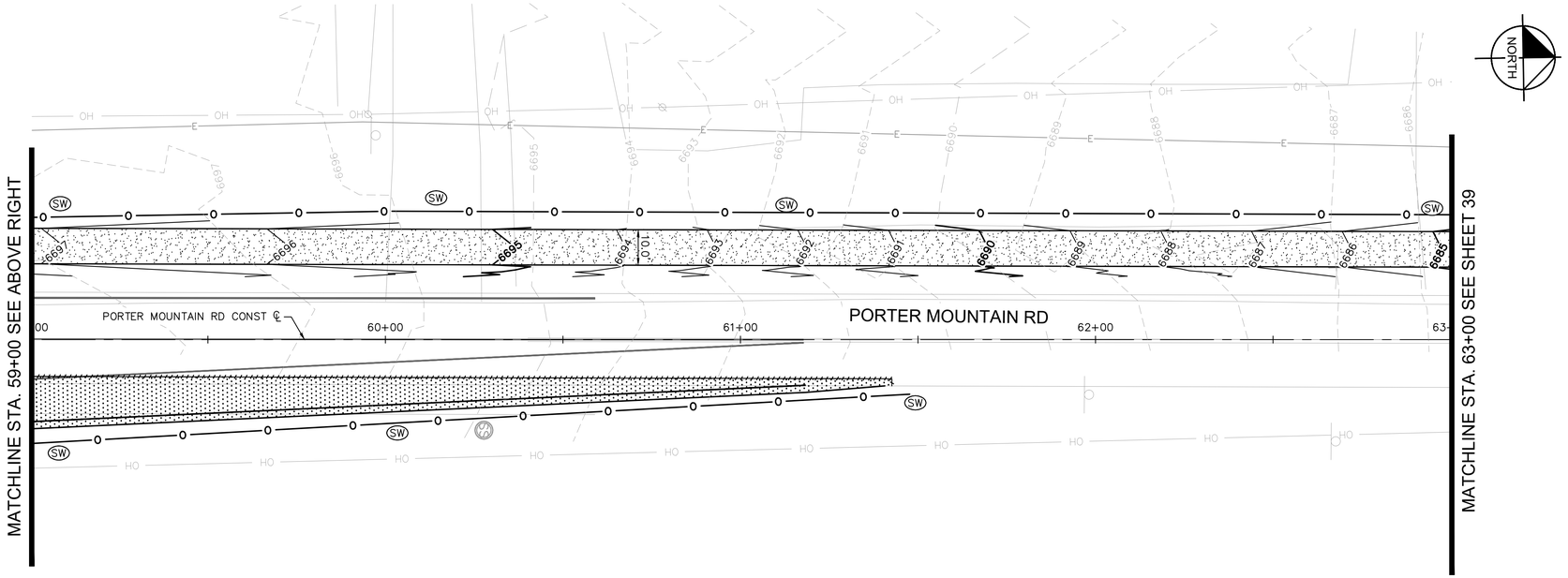
PROJECT NO.
291056010

DRAWING NAME
EC06





TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	1,421
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	0

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

GRAPHIC SCALE IN FEET
0 10 20 40

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SCALE (V): 1"=4'
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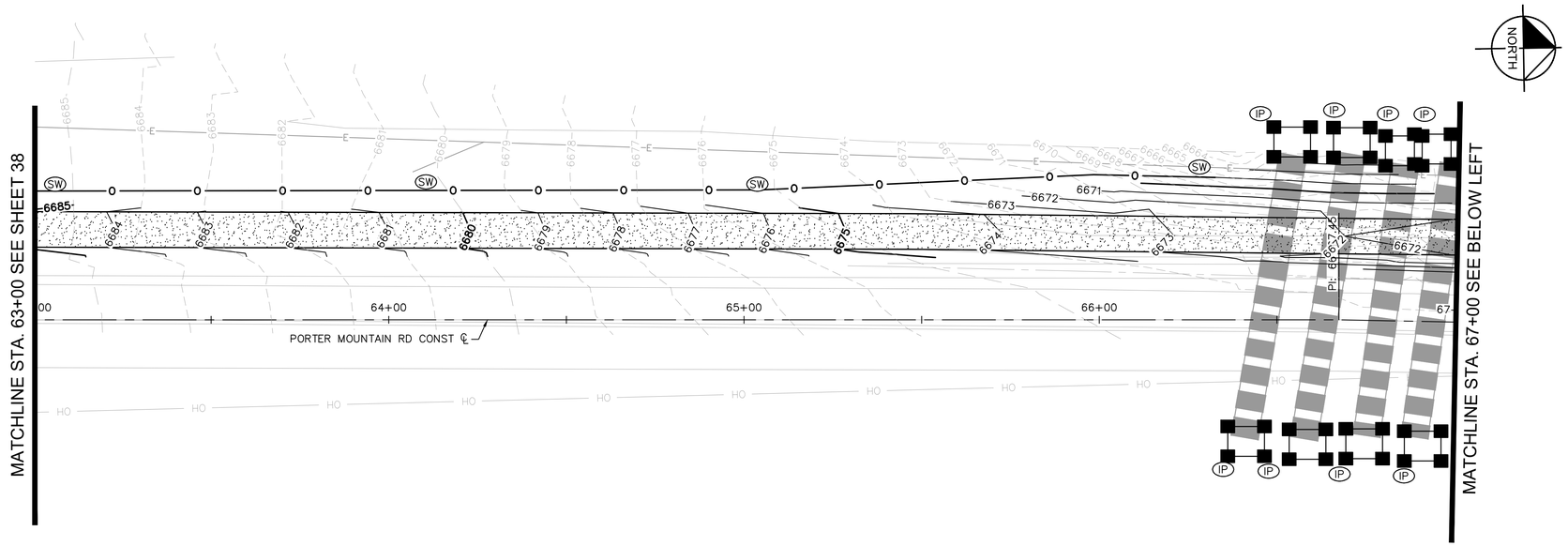
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

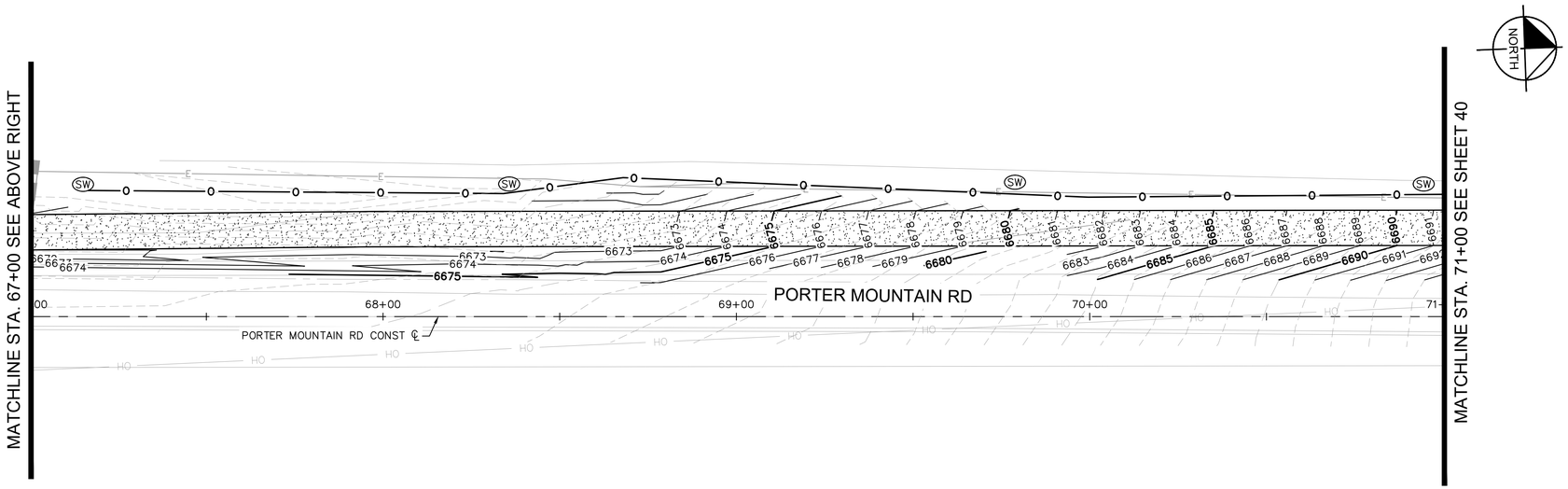
PORTER MOUNTAIN ROAD
IMPROVEMENTS
EROSION CONTROL PLAN
STA 55+00 TO 63+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
EC07





TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	1,421
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	8

STORM WATER MANAGEMENT LEGEND

- SW — SEDIMENT WATTLE BMP SC-5
- IP — STORM DRAIN INLET PROTECTION BMP SC-8

GRAPHIC SCALE IN FEET
0 10 20 40

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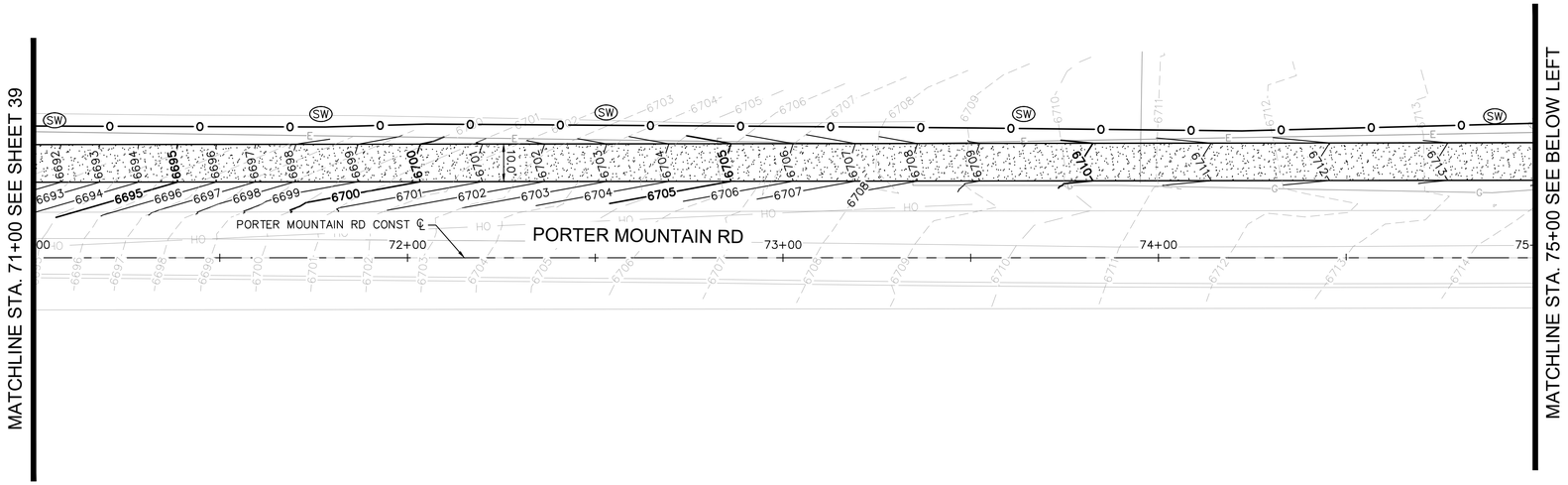
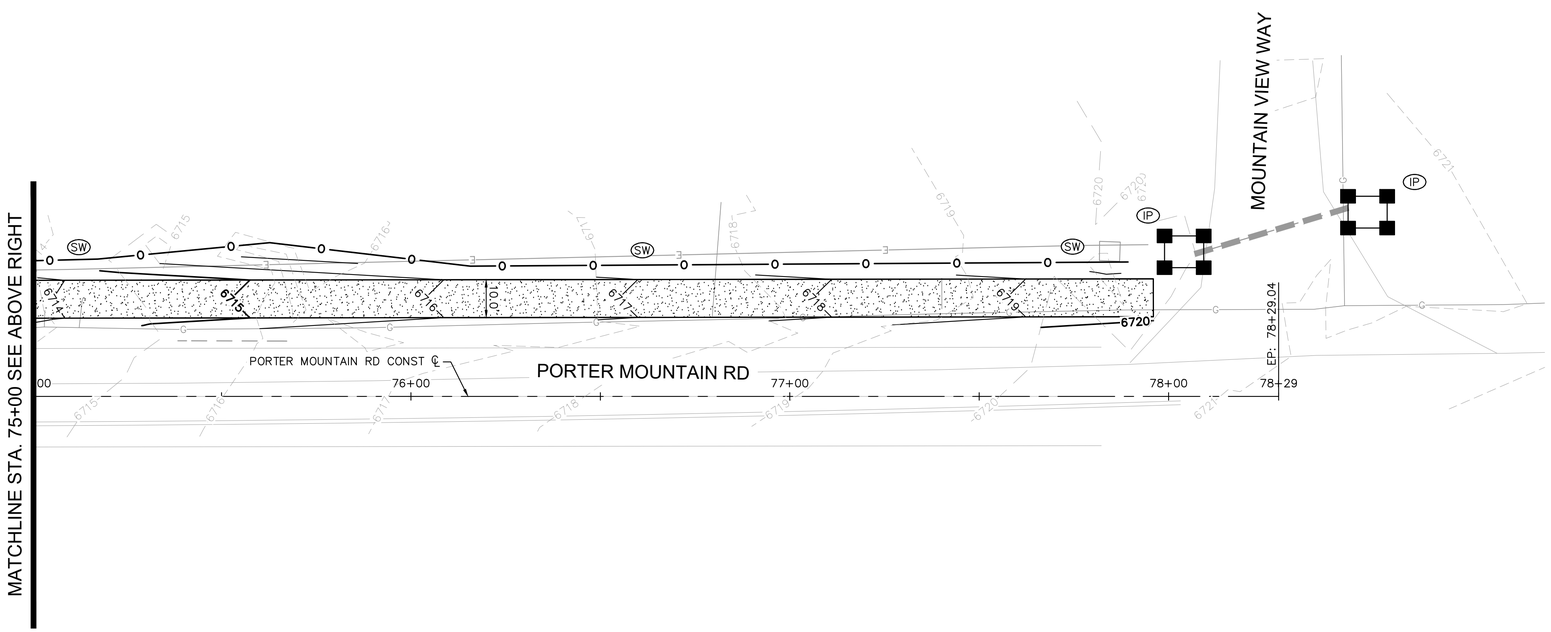
PORTER MOUNTAIN ROAD
IMPROVEMENTS
EROSION CONTROL PLAN
STA 63+00 TO STA 71+00
PINETOP-LAKESIDE LAKESIDE, AZ

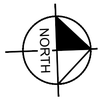
Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
EC08







TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 41.	LF	690
IP	INLET PROTECTION PER DTL. E2 ON SHEET 42.	EA	2

STORM WATER MANAGEMENT LEGEND

SW — SEDIMENT WATTLE BMP SC-5

IP — STORM DRAIN INLET PROTECTION BMP SC-8

NO.	REVISION	BY	DATE	APPR.

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DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
EROSION CONTROL PLAN
STA 71+00 TO END
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
EC09

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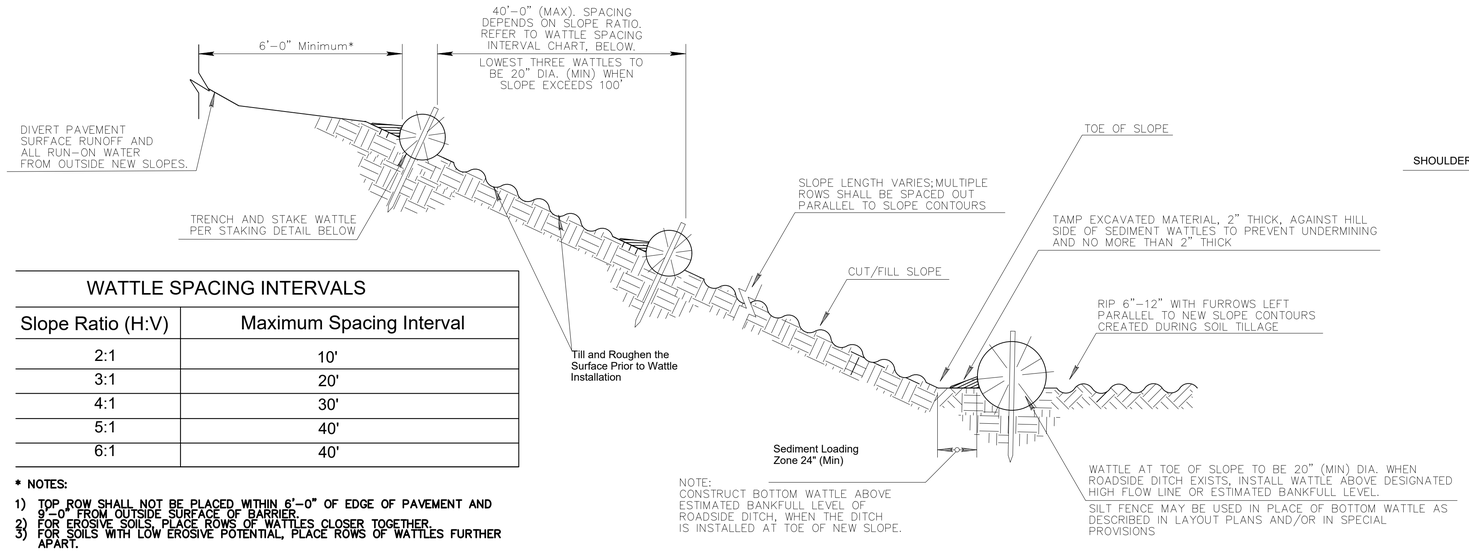
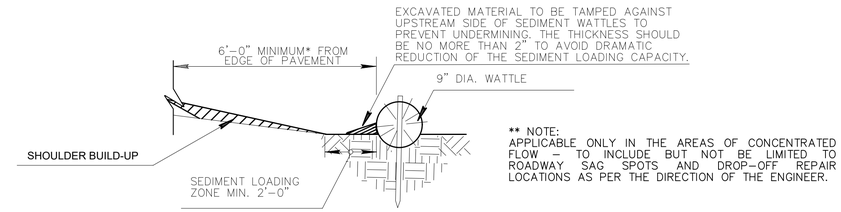


WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	Maximum Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

*** NOTES:**

1) TOP ROW SHALL NOT BE PLACED WITHIN 6'–0" OF EDGE OF PAVEMENT AND 9'–0" FROM OUTSIDE SURFACE OF BARRIER.
2) FOR EROSIVE SOILS, PLACE ROWS OF WATTLES CLOSER TOGETHER.
3) FOR SOILS WITH LOW EROSIVE POTENTIAL, PLACE ROWS OF WATTLES FURTHER APART.

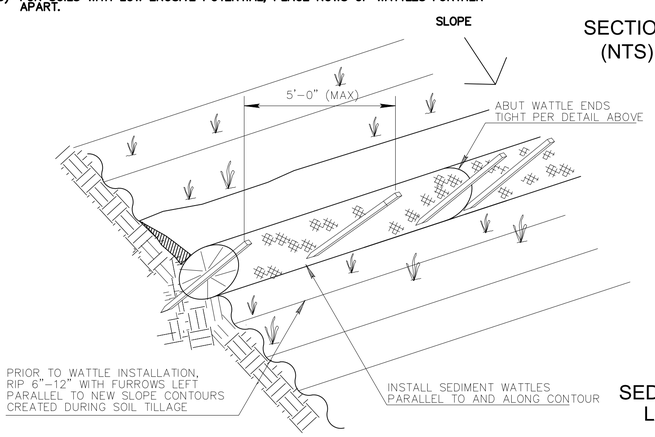
SECTION (NTS)



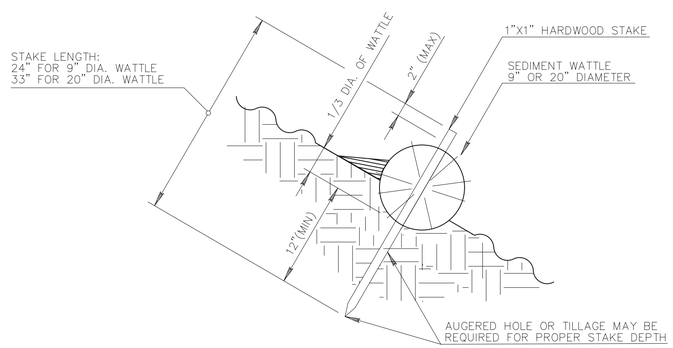
** NOTE:
APPLICABLE ONLY IN THE AREAS OF CONCENTRATED FLOW – TO INCLUDE BUT NOT BE LIMITED TO ROADWAY SAG SPOTS AND DROP–OFF REPAIR LOCATIONS AS PER THE DIRECTION OF THE ENGINEER.

NEW SHOULDER BUILDUP **
PROTECTION SECTION (NTS)

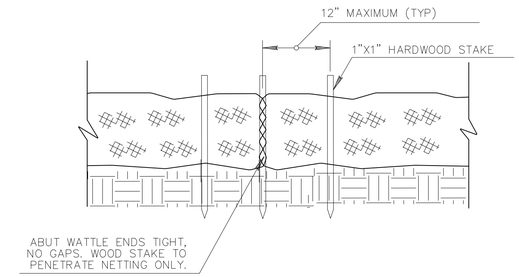
NOTES:
1. INSTALL SEDIMENT WATTLES AS SLOPES ARE CONSTRUCTED TO GRADE OR AS DIRECTED BY THE ENGINEER. SELECT, INSTALL AND MAINTAIN IN CONFORMANCE WITH MANUFACTURERS' SPECIFICATIONS TO MEET SITE CONDITIONS FOR SLOPE PROTECTION AND IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES. NO SEDIMENT WATTLES SHALL BE INSTALLED IN URBAN FREEWAY MEDIANS, NOR WHERE CABLE BARRIER SYSTEMS ARE EMPLOYED.
2. SEDIMENT WATTLES SHALL BE IN CONTINUOUS CONTACT WITH TRENCH BOTTOM AND SIDES. DO NOT OVERLAP WATTLE ENDS ON TOP OF EACH OTHER. A 20" DIA. WATTLE MAY BE MADE FROM 2–3 ROLLED EXCELSIOR OR STRAW BLANKETS.
3. BUTT ADJOINING WATTLES TIGHTLY AGAINST EACH OTHER. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE TO HELP ABUT THEM TIGHTLY.
4. REPAIR ANY RILLS OR GULLIES PROMPTLY. MAKE FIELD ADJUSTMENTS AND CORRECTIONS OF WATTLE BMP IMMEDIATELY IF IT IS CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
5. CONSTRUCTION OF CUT SLOPES 2:1 AND STEEPER IN SOIL AND ROCK MATERIALS THAT CAN BE RIPPED SHALL BE CONSTRUCTED, WHENEVER POSSIBLE, BY MINIBENCHING. REFER TO SLOPE MINIBENCHING BMP DETAIL.
6. LOOSENING SURFACE SOIL IS NOT REQUIRED WHERE MINIBENCHES ARE USED. FOR SEEDED AREAS, TILLAGE SHALL BE PERFORMED TO FORM MINOR RIDGES AND FURROWS PARALLEL TO NEW SLOPE CONTOURS AND AS SPECIFIED IN SECTION 805 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
7. DIVERT AND DIRECT RUN–ON WATER FROM OUTSIDE OF THE SLOPES TO THE SPILLWAYS AND/OR ROCK RIPRAP/ROCK MULCH, DIVERSION DIKES AND/OR DITCHES ARE NECESSARY ON NATURAL UNDISTURBED SLOPES BEYOND THE TOP LIMITS OF NEW SLOPES TO DIVERT RUN–ON WATER.
8. INSTALLATION AND MAINTENANCE OF SEDIMENT WATTLE BMPS SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, NOR THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES.
9. INSTALL AND MAINTAIN SEDIMENT WATTLE BMPS TO CARRY THE STORMWATER OF AT LEAST 2–YEAR, 24–HOUR EVENTS.
10. THE SEDIMENT WATTLE BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTENANCE, FINAL REMOVAL, AND DISPOSAL OF THIS TEMPORARY BMP, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
11. REFER TO STANDARD SPECIFICATION SECTION 810–2.06(C) FOR SEDIMENT WATTLE MATERIAL SPECIFICATIONS.
12. MAKE FIELD ADJUSTMENTS AND CORRECTIONS TO ENSURE NO SENSITIVE BIOLOGICAL RESOURCES (NATIVE SPECIES / HABITATS) WILL BE ADVERSELY IMPACTED.



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE OVERLAP (NTS)

DETAIL E1
BMP SC-5: SEDIMENT WATTLE

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Kimley»Horn

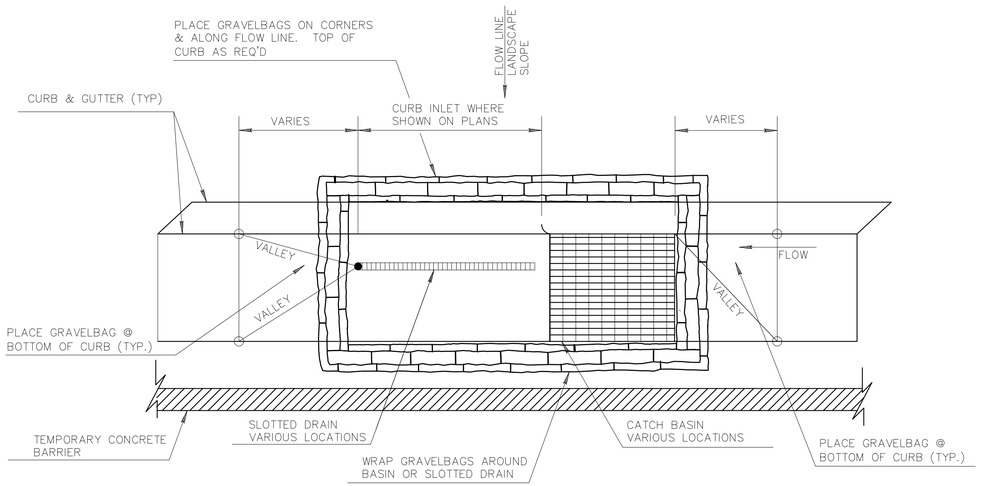
101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
EROSION CONTROL DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

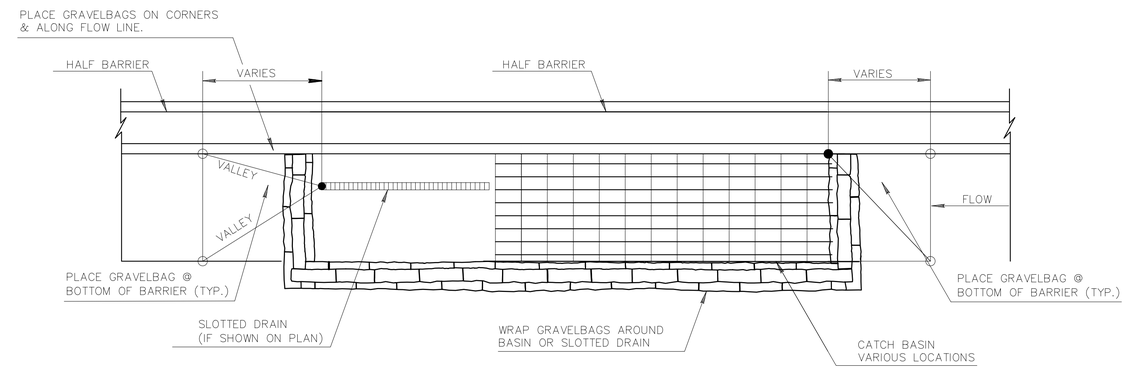
Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO. 291056010
DRAWING NAME EC10



PLAN VIEW

NTS



PLAN VIEW

NTS

DETAIL E2

BMP SC-8: GRAVEL BAGS STORM DRAIN PROTECTION / INLET CATCH BASIN PROTECTION / DISTURBED AREA PROTECTION

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DRAWN BY: DLP
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PORTER MOUNTAIN ROAD IMPROVEMENTS
EROSION CONTROL DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48841
ANDREW C. BAIRD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
EC11

GENERAL LANDSCAPE NOTES

1. ALL WORK SHALL BE CONFINED TO LIMITS OF CONSTRUCTION AS SHOWN ON PLANS.
2. SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE CONSIDERED INCIDENTAL WORK.
3. CONTRACTOR SHALL COORDINATE AND BE IN COMPLIANCE WITH ALL STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
4. CONTRACTOR IS TO REVIEW PLANS, VERIFY SITE CONDITIONS AND PLANT QUANTITIES PRIOR TO INSTALLATION. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND EXISTING SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
5. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, OR THE LANDSCAPE ARCHITECT MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.
6. THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER.
7. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.
8. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY.
9. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC., DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
10. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.
11. ALL SURPLUS EXCAVATION SHALL BE TAKEN TO A SITE DESIGNATED BY OWNER, AT NO ADDITIONAL COST TO THE OWNER. IF OWNER CHOOSES, THE CONTRACTOR MAY TAKE POSSESSION OF SURPLUS EXCAVATION MATERIAL.
12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
13. CONTRACTOR IS TO MAINTAIN CONTROLLED PEDESTRIAN AND ADA ACCESS THROUGH ALL AREAS OF THE SITE THROUGHOUT CONSTRUCTION PERIOD.
14. MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, ROCK MULCH AND OTHER MATERIALS TRACKED ONTO ANY PRIVATE OR PUBLIC STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY, IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER ACCEPTABLE METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
16. PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNMARRED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY OWNER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.
18. EROSION CONTROL MEASURES (IE: SILT FENCING AND SEDIMENT CONTROL) SHALL BE MAINTAINED BY THE CONTRACTOR PER CIVIL SPECIFICATIONS. ANY EROSION CONTROL MEASURES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED PER CIVIL SPECIFICATIONS.
19. PLANT QUANTITIES LISTED IN THE PLANT LEGEND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL DO THEIR OWN TAKE-OFFS AND BASE BID ACCORDINGLY.
20. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED (WHEN IN-LEAF) AS IS TYPICAL FOR THE SPECIES. THEY SHALL HAVE HEALTHY, WELL DEVELOPED STANDARDS, AND BE FREE OF ANY BRUISES, CUTS OR OTHER ABNORMALITIES. PLANT MATERIAL SHALL BE SIZED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
21. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNACCEPTABLE.
22. LANDSCAPE CONTRACTOR TO TAG AND HOLD ALL PLANT MATERIAL A MINIMUM OF 30 DAYS PRIOR TO DATE OF INSTALLATION. ALL PLANT MATERIAL SUBSTITUTIONS MADE WITHIN THE 30 DAYS PRIOR TO INSTALLATION TO BE THE NEXT SIZE LARGER AT NO ADDITIONAL COST TO THE CLIENT.
23. ALL TREE LOCATIONS TO BE STAKED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
24. INSTALL ALL CANOPY TREES WITH A MINIMUM OF 5 FT. SEPARATION FROM ALL UTILITIES, UNLESS A ROOT BARRIER IS UTILIZED.
25. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANTED AREAS BY MEANS OF CONTINUOUS WATERING, PRUNING, RAISING TREE ROOT BALLS WHICH SETTLE BELOW GRADE, APPLICATION OF SPRAYS WHICH ARE NECESSARY TO KEEP THE PLANTING FREE OF INSECTS AND DISEASES, FERTILIZING, WEEDING, MOVING, EDGING AND/OR OTHER OPERATIONS NECESSARY FOR PROPER CARE AND UPKEEP.
26. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE ENTIRE PROJECT FOR 90 DAYS AFTER ACCEPTANCE OF THE WORK BY THE OWNER'S REPRESENTATIVE. UPON COMPLETION OF THE MAINTENANCE PERIOD, THE OWNER WILL ASSUME ALL MAINTENANCE RESPONSIBILITY.
27. PRIOR TO INITIATING THE 90-DAY MAINTENANCE PERIOD, COMPLETE ANY INITIAL PUNCH-LIST ITEMS. THEN OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE OF SUBSTANTIAL COMPLETION. DETERMINE WITH THE OWNER'S REPRESENTATIVE THE START DATE FOR THE 90-DAY MAINTENANCE PERIOD. CONTRACTOR TO MAINTAIN LANDSCAPE WHICH MAY INCLUDE WATERING, WEEDING, PRUNING, AND REPLACEMENT OF ANY MATERIAL THAT HAS DIED OR IS SHOWING EVIDENCE OF STRESS. SUBMIT WRITTEN REQUEST FOR FINAL PUNCH-LIST ONE WEEK PRIOR TO END OF MAINTENANCE PERIOD.
28. ALL GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT SHALL APPLY.
29. FINAL PLANT LOCATIONS MUST BE IN COMPLIANCE WITH ALL UTILITY SETBACK REQUIREMENTS.
30. CONTRACTOR TO OBTAIN A RIGHT OF WAY PERMIT PRIOR TO CONSTRUCTION WITHIN THE RIGHT-OF-WAY.

PLANT LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	QTY.	SIZE	GPH
	PINUS PONDEROSA PONDEROSA PINE	03	15 GAL.	6
	JUNIPERUS SCOPULORUM ROCKY MOUNTAIN JUNIPER	08	15 GAL.	6
	EXISTING TREE TO REMAIN	--	--	

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	QTY.	SIZE	GPH
	AMELANCHIER UTAHENSIS UTAH SERVICEBERRY	11	5 GAL.	1
	PHYSOCARPUS OPULIFOLIUS 'CENTER GLOW' CENTER GLOW NINEBARK	11	5 GAL.	1
	PHYSOCARPUS OPULIFOLIUS 'DART'S GOLD" DART'S GOLD NINEBARK	11	5 GAL.	1
	VIBURNUM DENTATUM 'CHRISTOM' BLUE MUFFIN ARROWWOOD VIBURNUM	24	5 GAL.	1

ADDITIONAL LANDSCAPE MATERIALS

SYMBOL	MATERIAL	QTY.
	ROCK MULCH; COLOR AND SIZE TO MATCH EXISTING ROCK IN CENTER OF ROUNDABOUT	24,125 S.F.

GENERAL IRRIGATION NOTES

1. CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS AND COMPLETING THE INSTALLATION OF A FULLY AUTOMATIC AND OPERATIVE IRRIGATION SYSTEM, AS INDICATED ON THE PLANS, PRIOR TO THE START OF ANY PLANTING OPERATIONS.
3. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO ORDERING MATERIAL OR STARTING IRRIGATION AND NOTIFY CONSULTANT AND CITY OF SHOW LOW REPRESENTATIVE OF ANY DIFFERENCE FROM PRESSURE INDICATED. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT AND THE OWNER'S REPRESENTATIVE, HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS.
4. THE IRRIGATION SYSTEM LAYOUT SHOWN ON THE DRAWINGS IS GENERALLY SCHEMATIC. ALL VALVES, COMPONENTS, PIPING, FITTINGS AND EQUIPMENT SHALL BE LOCATED WITHIN LANDSCAPE AREAS UNLESS SLEEVED OR OTHERWISE SHOWN OR APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING NEW IRRIGATION SYSTEM COMPONENTS AND CONNECTION WHICH WILL PROVIDE FULL AUTOMATIC OPERATION AND 100% COMPLETE COVERAGE TO ALL PLANTS AS INDICATED ON THE PLANS WITHOUT RUN-OFF OR OVERTHROW ONTO ANY PAVED SURFACES.
5. REFER TO DETAILS AND MANUFACTURER'S DIRECTIONS FOR INSTALLATION PROCEDURES.
6. IRRIGATION LINES SHALL HAVE A MINIMUM OF THIRTY (30) INCHES OF COVER.
7. DETECTABLE MARKING TAPE SHALL BE INSTALLED.

IRRIGATION LEGEND

SYMBOL	EQUIPMENT	PRODUCT	SIZE
M	METER	SEE CIVIL PLANS	3/4"
C	CONTROLLER - PEDESTAL MOUNT RAINBIRD PSM-LXME2*	RAINBIRD ESP4ME3 W/ RSDBEX	2 STATIONS
B	BACKFLOW PREVENTER	FEBCO 825Y REDUCED PRESSURE	3/4"
	PRESSURE REGULATOR	SENNIGER PMR35MF	1"
	REMOTE CONTROL VALVE ASSEMBLY W/ FILTER	RAINBIRD 100-PEB	1"
NOT SHOWN	FILTER	RAINBIRD RBY-100-200MX 1" Y FILTER W/200 MESH SCREEN	
	MAIN LINE	PVC SCH 40	3/4"
T T	TREE LATERAL LINE	PVC SCH 40	1/2"
S	SHRUB LATERAL LINE	PVC SCH 40	1/2"
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)	RAINBIRD EMT-6XERI W/ XB-05PC, XB-10PC, XB-20PC AS NEEDED	
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)	RAINBIRD XBT-10-6, XBT-20-6; 1 PER TREE; SHRUBS WITH SAME FLOW RATE TO SHARE	
	END CAP	AUTOMATIC FLUSHING, COMPRESSION END PLUG	
S-1 XX GPM	VALVE NUMBER / TYPE VALVE SIZE GALLONS PER MINUTE		

*CONTROLLER INCLUDES WEATHER SENSOR PROGRAMABLE BY STATION TO PREVENT OR PAUSE WATERING DURING RAIN EVENTS

Call at least two full working days before you begin excavation.
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In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

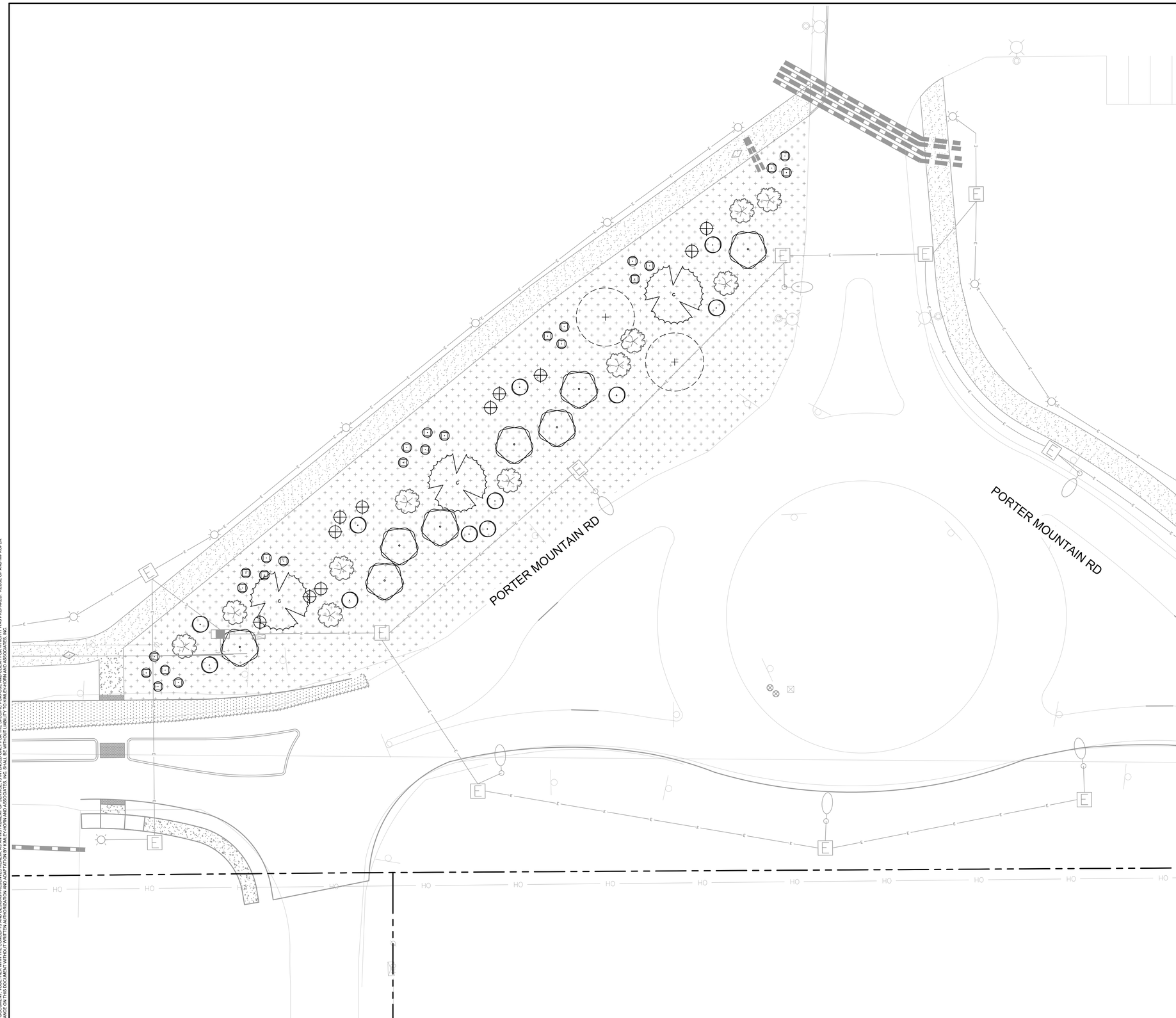
SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
LANDSCAPE NOTES
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Landscape Architect
CERTIFICATE NO.
50732
REBECA V. FIELD
Date Signed 02/21/24
ARIZONA, U.S.A.

PROJECT NO.
291056010

DRAWING NAME
LS00



PLANT LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	PINUS PONDEROSA PONDEROSA PINE
	JUNIPERUS SCOPULORUM ROCKY MOUNTAIN JUNIPER
	EXISTING TREE TO REMAIN

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME
	AMELANCHIER UTAHENSIS UTAH SERVICEBERRY
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	VIBURNUM DENTATUM 'CHRISTOM' BLUE MUFFIN ARROWWOOD VIBURNUM

ADDITIONAL LANDSCAPE MATERIALS

SYMBOL	MATERIAL
	ROCK MULCH; COLOR AND SIZE TO MATCH EXISTING ROCK IN CENTER OF ROUNDABOUT

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

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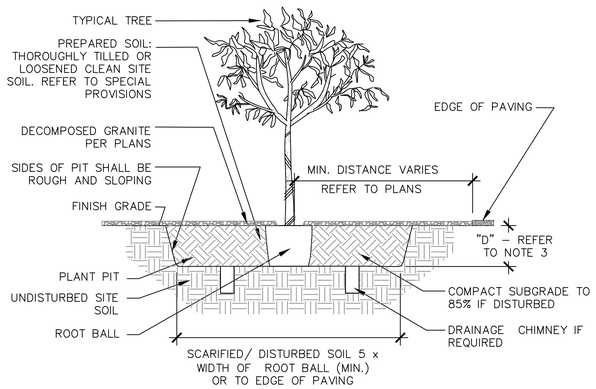
SCALE (H): 1"=20'
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
LANDSCAPE PLAN
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Landscape Architect
50732
REBECA V. FIELD
Date Signed 02.21.24
ARIZONA U.S.A.

PROJECT NO.
291056010

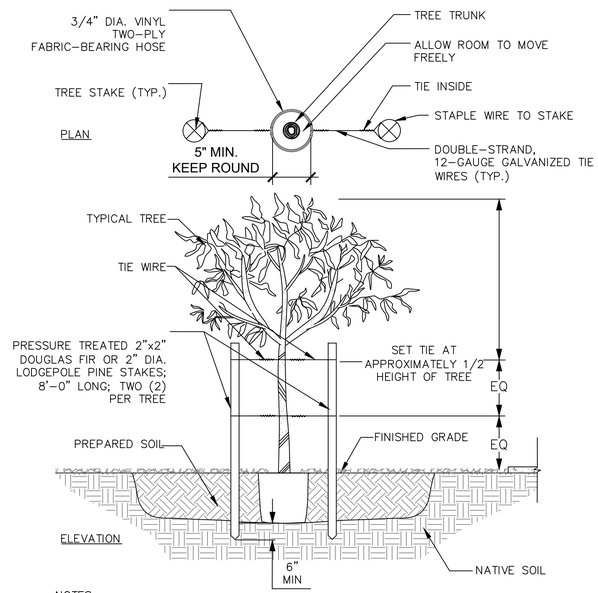
DRAWING NAME
LS01



NOTES:
1. NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
2. STAKE TREE ONLY IF NEEDED, PER DIRECTION OF OWNER'S REPRESENTATIVE. REFER TO TREE STAKING DETAIL.
3. DEPTH ("D") OF PLANT PIT TO BE EQUAL TO DEPTH OF ROOT BALL.
4. MULCH TO NOT TOUCH TRUNK OF TREE.

01 TREE PLANTING DETAIL

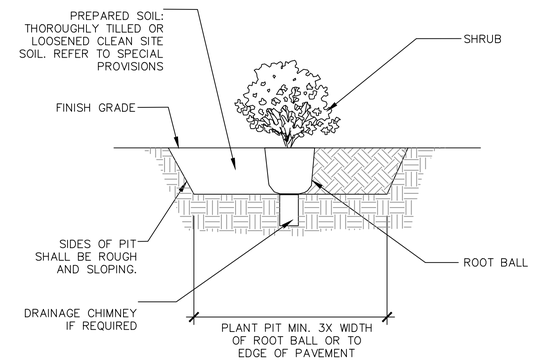
NTS



NOTES:
1. NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE
2. STAKE TREES ONLY AS DIRECTED BY OWNER'S REPRESENTATIVE.
3. SET STAKES PARALLEL TO SIDEWALK AND PAVEMENT

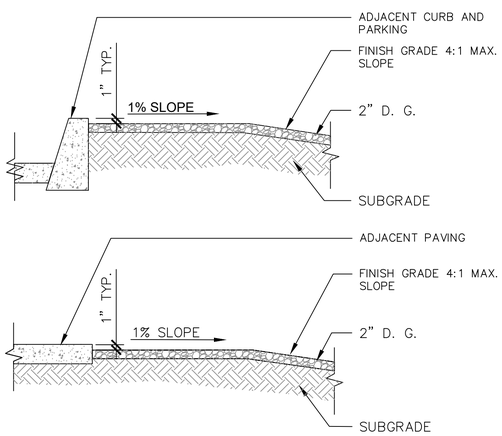
02 TREE STAKING

NTS



03 SHRUB PLANTING 1-GAL./5-GAL. PLANTS

NTS



04 FINISH GRADE AT CURB AND PAVING

WITH DECOMPOSED GRANITE

NTS

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NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

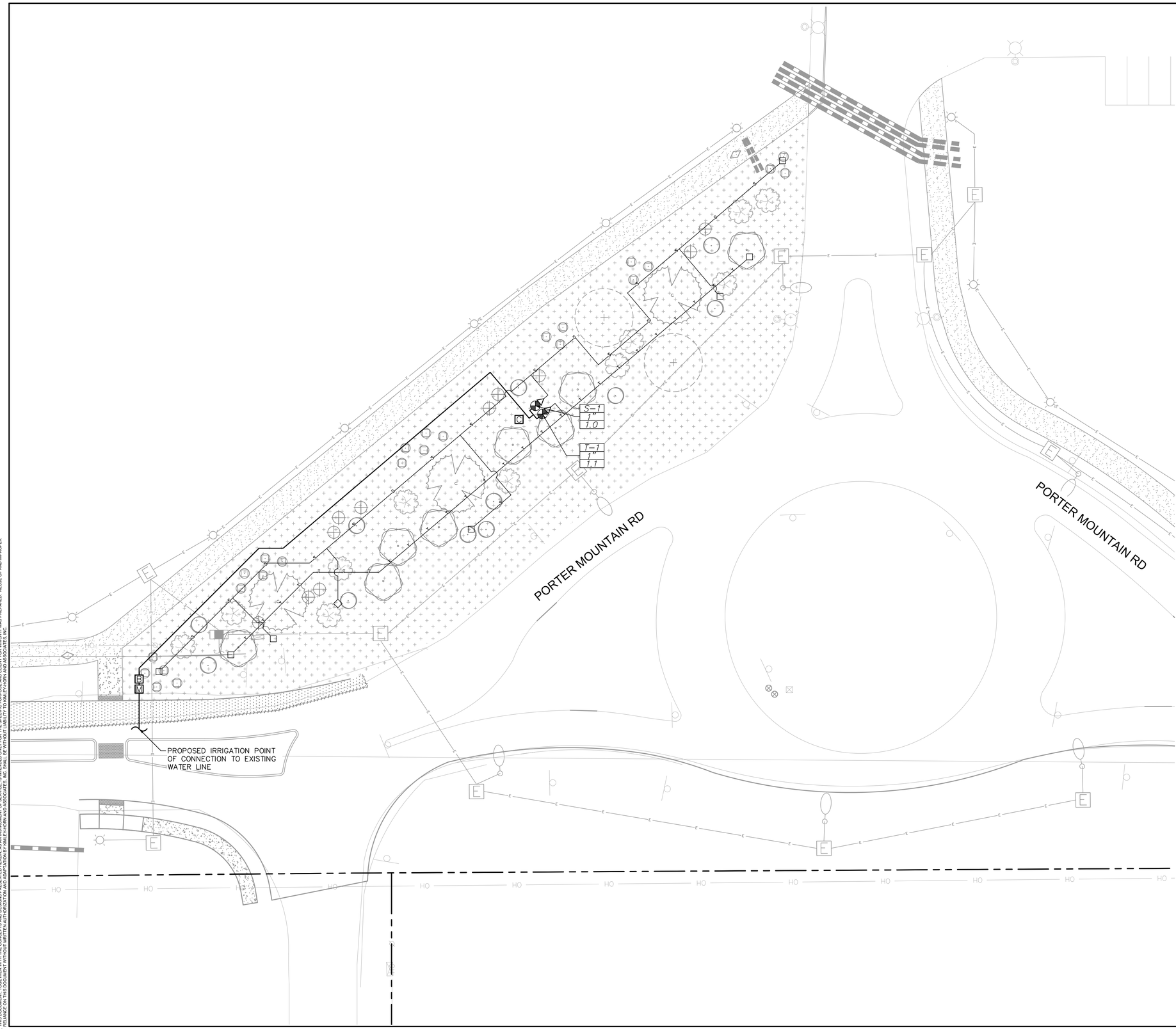
SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
LANDSCAPE DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Landscape Architect
Certificate No. 50732
REBECA V. FIELD
Date Signed 03/21/24
ARIZONA, U.S.A.

PROJECT NO. 291056010

DRAWING NAME LS03



IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER – PEDESTAL MOUNT RAINBIRD PSM–LXME2*
B	BACKFLOW PREVENTER
△	PRESSURE REGULATOR
	REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
T T	TREE LATERAL LINE
S	SHRUB LATERAL LINE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI–PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI–PORT; (1 GPH & 2 GPH)
——◇	END CAP
S–1 / XX / GPM	VALVE NUMBER / TYPE VALVE SIZE GALLONS PER MINUTE

*CONTROLLER INCLUDES WEATHER SENSOR PROGRAMABLE BY STATION TO PREVENT OR PAUSE WATERING DURING RAIN EVENTS

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

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SCALE (V): N/A
DESIGNED BY: DLP
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DATE: FEB 2024

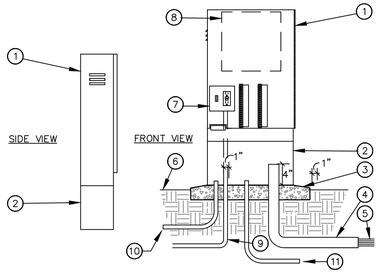
PORTER MOUNTAIN ROAD
IMPROVEMENTS
IRRIGATION PLAN
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Landscape Architect
CERTIFICATE NO.
50732
REBECA V. FIELD
Date Signed 02/21/24
ARIZONA, U.S.A.

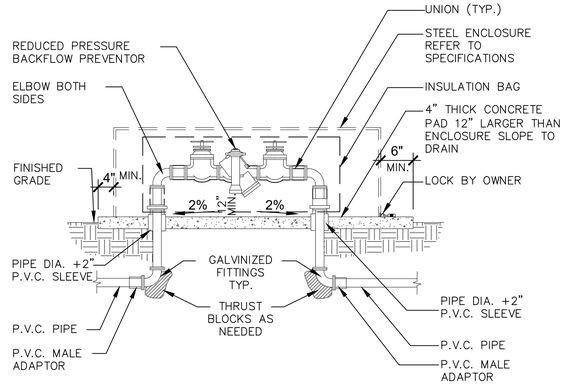
PROJECT NO.
291056010

DRAWING NAME
IR01

LEGEND
1. CONTROLLER ENCLOSURE.
2. PEDESTAL.
3. POURED CONCRETE BASE – 6" MIN. THICKNESS – EXTEND 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE WITH 2% SLOPE FOR DRAINAGE.
4. 2" PVC LONG SWEEP ELL FOR CONTROL WIRES – USE ONE SWEEP ELL PER 18 STATIONS.
5. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES.
6. FINISH GRADE
7. CONTROLLER SUB-ASSEMBLY (CSA) INCLUDES GFI & TERMINAL STRIPS WITH PLACARDS.
8. AUTOMATIC CONTROLLER.
9. 120-VOLT DEDICATED SERVICE POWER SUPPLY IN CONDUIT (¾" MIN.)
10. 1 1/2" PVC LONG SWEEP ELL FOR GROUNDING WIRE.
11. 1" PVC LONG SWEEP ELL FOR COMMUNICATION WIRE, UNLESS SPECIFIED OTHERWISE.

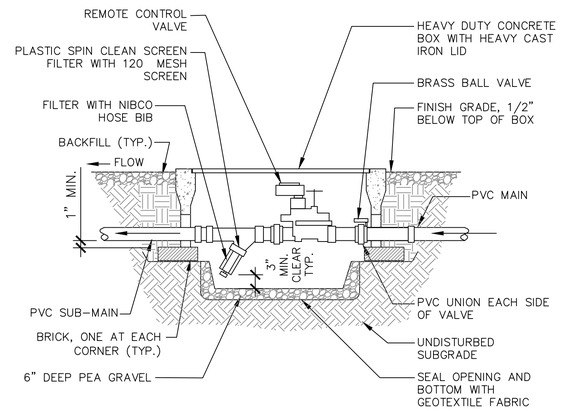


1 PEDESTAL MOUNTED CONTROLLER
NTS



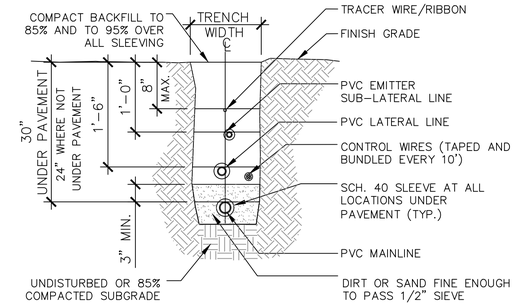
NOTES:
1. INSTALL PER C.O.T. WATER STANDARD 1802

2 BACKFLOW PREVENTION UNIT
NTS



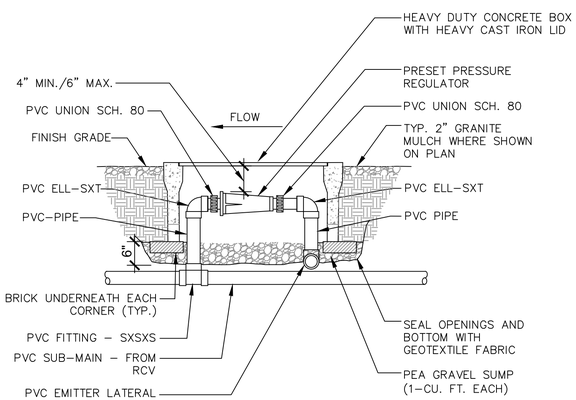
NOTES:
1. PROVIDE 2' FLEXIBLE HOSE WITH FILTER. INSTALL FILTER ON SIDE AT A SLIGHT DOWNWARD ANGLE.

3 REMOTE CONTROL VALVE WITH FILTER
NTS



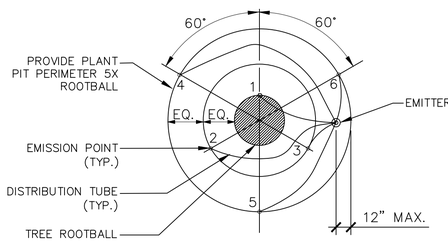
NOTES:
1. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. NO PIPE OR WIRE SHALL BE LOCATED UNDER PAVING UNLESS IT IS SLEEVED.
3. COLOR TRACER WIRE/RIBBON TO BE RUN ALONG DITCH ALIGNMENT AT CENTERLINE OF PIPES (6"–8" DEEP). AN EXPOSED LOOP IN THE TRACER WIRE/RIBBON SHALL BE PROVIDED AT ALL VALVES, PULL BOXES, AND THE END OF ALL SLEEVES. TRACER WIRE SHALL BE #16 GREEN COATED COPPER WIRE.

4 IRRIGATION TRENCHING
NTS



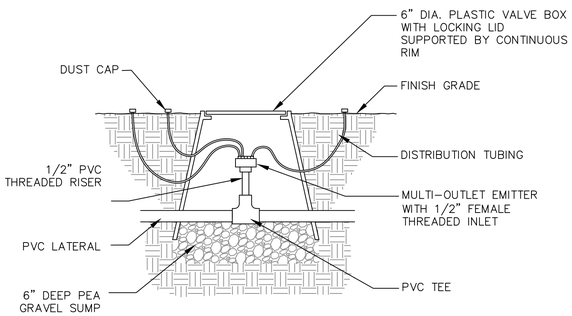
NOTES:
1. ALL PIPE SCH. 40 EXCEPT SCH. 80 UNIONS

5 PRESSURE REGULATOR RISER
NTS



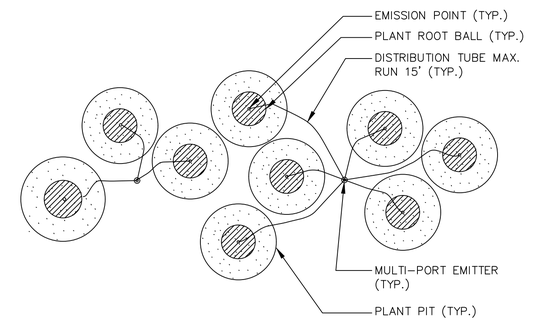
NOTES:
1. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 15'.
2. EMISSION POINTS ARE NUMBERED IN ORDER OF PLACEMENT (1–6).
3. IF ONLY ONE EMITTER – PLACE UPHILL OF TREE.

6 MULTI PORT EMITTER LOCATION - TREES
NTS



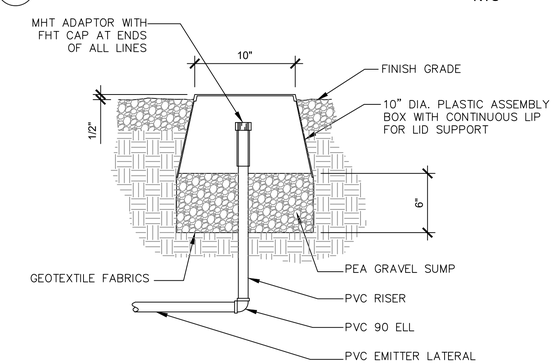
NOTES:
1. LENGTH OF DISTRIBUTION TUBING NOT TO EXCEED 15'–0"

7 MULTI PORT EMITTER ON PVC LATERAL
NTS



NOTES:
1. MORE THAN ONE SHRUB MAY BE WATERED FROM A SINGLE MULTI-PORT EMITTER.
2. MAXIMUM LENGTH OF ONE DISTRBUTION TUBE SHALL BE 15'.
3. IF ONLY ONE DISTRIBUTION TUBE IS REQUIRED, PLACE EMISSION POINT ON TOP OF ROOTBALL OR UPHILL OF PLANT.
4. IF MORE THAN ONE DISTRIBUTION TUBE PER SHRUB IS REQUIRED, SPACE EMISSION POINTS EVENLY WITHIN PLANT PIT.

8 EMITTER LOCATION DETAIL - SHRUBS
NTS



9 FLUSH END CAP (PVC LATERAL END CAP)
NTS

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: DLP
DRAWN BY: DLP
CHECKED BY: ACB
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
IRRIGATION DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Landscape Architect
CERTIFICATE NO. 50732
REBECA V. FIELD
Date Signed 02/21/24
ARIZONA U.S.A.

PROJECT NO. 291056010
DRAWING NAME IR02

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

ELECTRICAL GENERAL NOTES:

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR OTHERWISE ON SHEETS.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK, MATERIALS, EQUIPMENT, AND INCIDENTALS INCLUDING CONDUIT, WIRING, CONNECTIONS, AND TESTING SHALL BE IN FULL ACCORDANCE WITH CITY OF PINETOP-LAKESIDE STANDARDS AND THE LATEST EDITIONS OF THE FOLLOWING: NATIONAL ELECTRIC CODE, CAC TITLE 24 PART 3: BASIC ELECTRICAL REGULATIONS, CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL/OSHA) FOR LOW WATTAGE ELECTRICAL ORDERS, ALL APPLICABLE LOCAL LAWS, REGULATIONS, AND/OR ORDINANCES, AND CAL/OSHA CONSTRUCTION SAFETY ORDERS.
4. OBTAIN WRITTEN APPROVAL FROM THE CITY ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
6. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80. ALL ELBOWS AND EXPOSED RISERS SHALL BE RIGID STEEL CONDUIT.
7. VERIFY EXACT LOCATION OF PEDESTALS, CONTROLLERS, AND PULL BOXES PRIOR TO ROUGH-IN.
8. PULL ROPES: PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH CONDUIT.
9. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
10. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
11. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT, VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD WITH THE CITY ENGINEER AND EQUIPMENT MANUFACTURER (IF APPLICABLE) SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY.
12. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
13. ALL PANEL BOARDS, SWITCHES, AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED NAMEPLATES.
14. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE CITY OF PINETOP-LAKESIDE FOR APPROVAL PRIOR TO FINALIZATION.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING, AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
16. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES.
17. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
18. ALL CONDUCTORS SHALL BE IDENTIFIED AT PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON THE BACK OF THE COVER PLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
19. ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT AND FOR EACH BRANCH CIRCUIT.
20. ALL PROPOSED PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED IN PLANS, AND SHALL BE TAN IN COLOR.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING ELECTRICAL CONNECTIONS.
22. INSTALLATION OF EQUIPMENT, COMPONENTS, AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
24. ALL EQUIPMENT SHALL BE "UL" LISTED. LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. WILL BE ACCEPTED AS EVIDENCE THAT MATERIALS OR EQUIPMENT CONFORM TO APPLICABLE STANDARDS OF THAT AGENCY.
25. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE SYSTEM FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
26. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
27. PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
28. NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.

LIGHTING LEGEND

- EXISTING STREET LIGHT POLE
- PROPOSED MULTIUSE PATH LUMINAIRE, POLE, AND FOUNDATION
- PROPOSED STREET LIGHT POLE
- PROPOSED NO. 5 PULLBOX
- PROPOSED UNDERGROUND CONDUIT
- PROPOSED ELECTRICAL SERVICE PEDESTAL CABINET
- B- PROPOSED DIRECTIONAL BORE BEGINNING
- E- PROPOSED DIRECTIONAL BORE END

ABBREVIATIONS

AIC	AMPS OF INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
B	BEGINNING
DIA	DIAMETER
E	ENDING
ESMT	EASEMENT
EX	EXISTING
GRC	GALVANIZED RIDGED STEAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTION
IN	INCH
MU	MULTI-USE
MUP	MULTI-USE PATH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RW	RIGHT OF WAY
SRP	SALT RIVER PROJECT
STA	STATION

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	**% Vdrop	Point
1	120 / 240 1 ph 100	42472	100											1
2	1	1	100	NM	Copper	1	Set of	8	2.924167	75	240	1	0.13%	2
3	2	2	98	NM	Copper	1	Set of	8	2.79125	140	240	1	0.35%	3
4	3	3	95	NM	Copper	1	Set of	8	2.658333	140	240	1	0.56%	4
5	4	4	91	NM	Copper	1	Set of	8	2.525417	140	240	1	0.77%	5
6	5	5	88	NM	Copper	1	Set of	8	2.3925	140	240	1	0.96%	6
7	6	6	85	NM	Copper	1	Set of	8	2.259583	140	240	1	1.14%	7
8	7	7	83	NM	Copper	1	Set of	8	2.126667	140	240	1	1.31%	8
9	8	8	80	NM	Copper	1	Set of	8	1.99375	140	240	1	1.47%	9
10	9	9	78	NM	Copper	1	Set of	8	1.860833	140	240	1	1.62%	10
11	10	10	76	NM	Copper	1	Set of	8	1.727917	140	240	1	1.76%	11
12	11	11	74	NM	Copper	1	Set of	8	1.595	140	240	1	1.89%	12
13	12	12	72	NM	Copper	1	Set of	8	1.462083	140	240	1	2.01%	13
14	13	13	70	NM	Copper	1	Set of	8	1.329167	140	240	1	2.12%	14
15	14	14	68	NM	Copper	1	Set of	8	1.19625	140	240	1	2.21%	15
16	15	15	66	NM	Copper	1	Set of	8	1.063333	250	240	1	2.37%	16
17	16	16	64	NM	Copper	1	Set of	8	0.7975	140	240	1	2.43%	17
18	17	17	62	NM	Copper	1	Set of	8	0.664583	140	240	1	2.48%	18
19	18	18	61	NM	Copper	1	Set of	8	0.531667	140	240	1	2.53%	19
20	19	19	59	NM	Copper	1	Set of	8	0.39875	140	240	1	2.56%	20
21	20	20	58	NM	Copper	1	Set of	8	0.265833	140	240	1	2.58%	21
22	21	21	57	NM	Copper	1	Set of	8	0.132917	140	240	1	2.59%	22

A VOLTAGE DROP CIRCUIT A
SCALE: N.T.S.

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	**% Vdrop	Point
1	120 / 240 1 ph 100	42472	100											1
2	1	1	100	NM	Copper	1	Set of	8	2.924167	260	240	1	0.44%	2
3	2	2	93	NM	Copper	1	Set of	8	2.658333	140	240	1	0.65%	3
4	3	3	90	NM	Copper	1	Set of	8	2.525417	140	240	1	0.85%	4
5	4	4	87	NM	Copper	1	Set of	8	2.3925	140	240	1	1.05%	5
6	5	5	85	NM	Copper	1	Set of	8	2.259583	140	240	1	1.23%	6
7	6	6	82	NM	Copper	1	Set of	8	2.126667	140	240	1	1.40%	7
8	7	7	80	NM	Copper	1	Set of	8	1.99375	140	240	1	1.56%	8
9	8	8	77	NM	Copper	1	Set of	8	1.860833	140	240	1	1.71%	9
10	9	9	75	NM	Copper	1	Set of	8	1.727917	140	240	1	1.85%	10
11	10	10	73	NM	Copper	1	Set of	8	1.595	140	240	1	1.98%	11
12	11	11	71	NM	Copper	1	Set of	8	1.462083	140	240	1	2.10%	12
13	12	12	69	NM	Copper	1	Set of	8	1.329167	140	240	1	2.20%	13
14	13	13	68	NM	Copper	1	Set of	8	1.19625	140	240	1	2.30%	14
15	14	14	66	NM	Copper	1	Set of	8	1.063333	140	240	1	2.38%	15
16	15	15	64	NM	Copper	1	Set of	8	0.930417	140	240	1	2.46%	16
17	16	16	63	NM	Copper	1	Set of	8	0.7975	140	240	1	2.52%	17
18	17	17	61	NM	Copper	1	Set of	8	0.664583	140	240	1	2.58%	18
19	18	18	60	NM	Copper	1	Set of	8	0.531667	140	240	1	2.62%	19
20	19	19	59	NM	Copper	1	Set of	8	0.39875	140	240	1	2.65%	20
21	20	20	57	NM	Copper	1	Set of	8	0.265833	140	240	1	2.67%	21
22	21	21	56	NM	Copper	1	Set of	8	0.132917	140	240	1	2.68%	22

A1 VOLTAGE DROP CIRCUIT A1
SCALE: N.T.S.

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	**% Vdrop	Point
1	120 / 240 1 ph 100	42472	100											1
2	1	1	100	NM	Copper	1	Set of	8	2.126667	75	240	1	0.09%	2
3	2	2	98	NM	Copper	1	Set of	8	1.99375	70	240	1	0.17%	3
4	3	3	96	NM	Copper	1	Set of	8	1.860833	70	240	1	0.25%	4
5	4	4	95	NM	Copper	1	Set of	8	1.727917	70	240	1	0.32%	5
6	5	5	93	NM	Copper	1	Set of	8	1.595	70	240	1	0.38%	6
7	6	6	91	NM	Copper	1	Set of	8	1.462083	70	240	1	0.44%	7
8	7	7	90	NM	Copper	1	Set of	8	1.329167	70	240	1	0.49%	8
9	8	8	88	NM	Copper	1	Set of	8	1.19625	70	240	1	0.54%	9
10	9	9	87	NM	Copper	1	Set of	8	1.063333	70	240	1	0.58%	10
11	10	10	85	NM	Copper	1	Set of	8	0.930417	70	240	1	0.62%	11
12	11	11	84	NM	Copper	1	Set of	8	0.7975	70	240	1	0.65%	12
13	12	12	83	NM	Copper	1	Set of	8	0.664583	70	240	1	0.68%	13
14	13	13	82	NM	Copper	1	Set of	8	0.531667	70	240	1	0.70%	14
15	14	14	80	NM	Copper	1	Set of	8	0.39875	70	240	1	0.72%	15
16	15	15	79	NM	Copper	1	Set of	8	0.265833	70	240	1	0.73%	16
17	16	16	78	NM	Copper	1	Set of	8	0.132917	70	240	1	0.73%	17

B VOLTAGE DROP CIRCUIT B
SCALE: N.T.S.

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	**% Vdrop	Point
1	120 / 240 1 ph 100	42472	100											1
2	1	1	100	NM	Copper	1	Set of	8	4.054167	160	240	1	0.37%	2
3	2	2	96	NM	Copper	1	Set of	8	2.316667	6	240	1	0.38%	3
4	3	3	96	NM	Copper	1	Set of	8	1.7375	125	240	1	0.51%	4
5	4	4	93	NM	Copper	1	Set of	8	1.158333	135	240	1	0.60%	5
6	5	5	90	NM	Copper	1	Set of	8	0.579167	110	240	1	0.63%	6
7	6	2	96	NM	Copper	1	Set of	8	1.7375	115	240	1	0.49%	7
8	7	6	87	NM	Copper	1	Set of	8	1.158333	175	240	1	0.75%	8
9	8	7	93	NM	Copper	1	Set of	8	0.579167	100	240	1	0.52%	9

C VOLTAGE DROP CIRCUIT C
SCALE: N.T.S.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H):
SCALE (V):
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ELECTRICAL GENERAL NOTES
PINETOP-LAKESIDE LAKESIDE, AZ

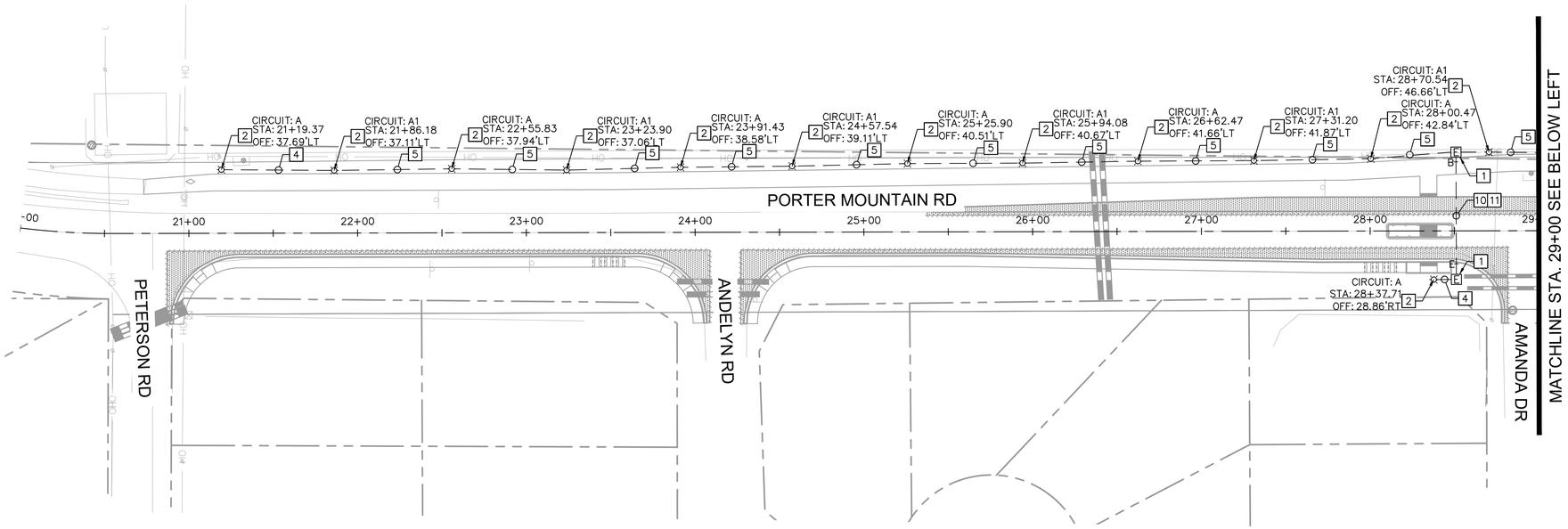
Registered Professional Engineer (Electrical)
CERTIFICATE NO. 80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA U.S.A.
Expires 03/31/27

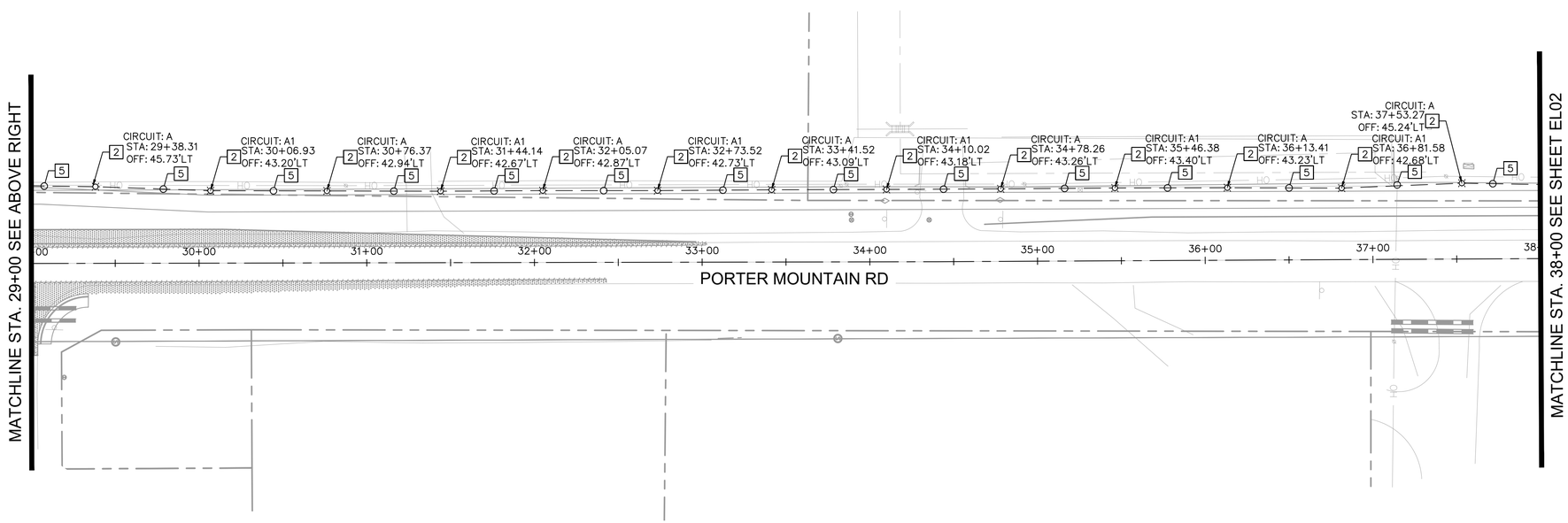
PROJECT NO. 291056010

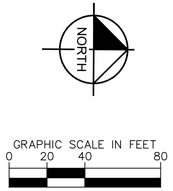
DRAWING NAME EL00

ELECTRICAL NOTES

1. FURNISH AND INSTALL NEW ELECTRICAL PULL BOX. SEE DETAIL G ON SHEET ED01.
2. FURNISH AND INSTALL NEW 31.6W 1SA-WP9S2-27L-350-3K7-1-CP-BC-3-UNV-BLT-7PR LUMINAIRE ON 16' STEEL LIGHT POLE. SEE DETAIL D ON SHEET ED01.
4. FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (2) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
5. FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (4) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
10. FURNISH AND INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT WITH (2) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
11. CONDUIT TO BE INSTALLED BY DIRECTIONAL BORE.







NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

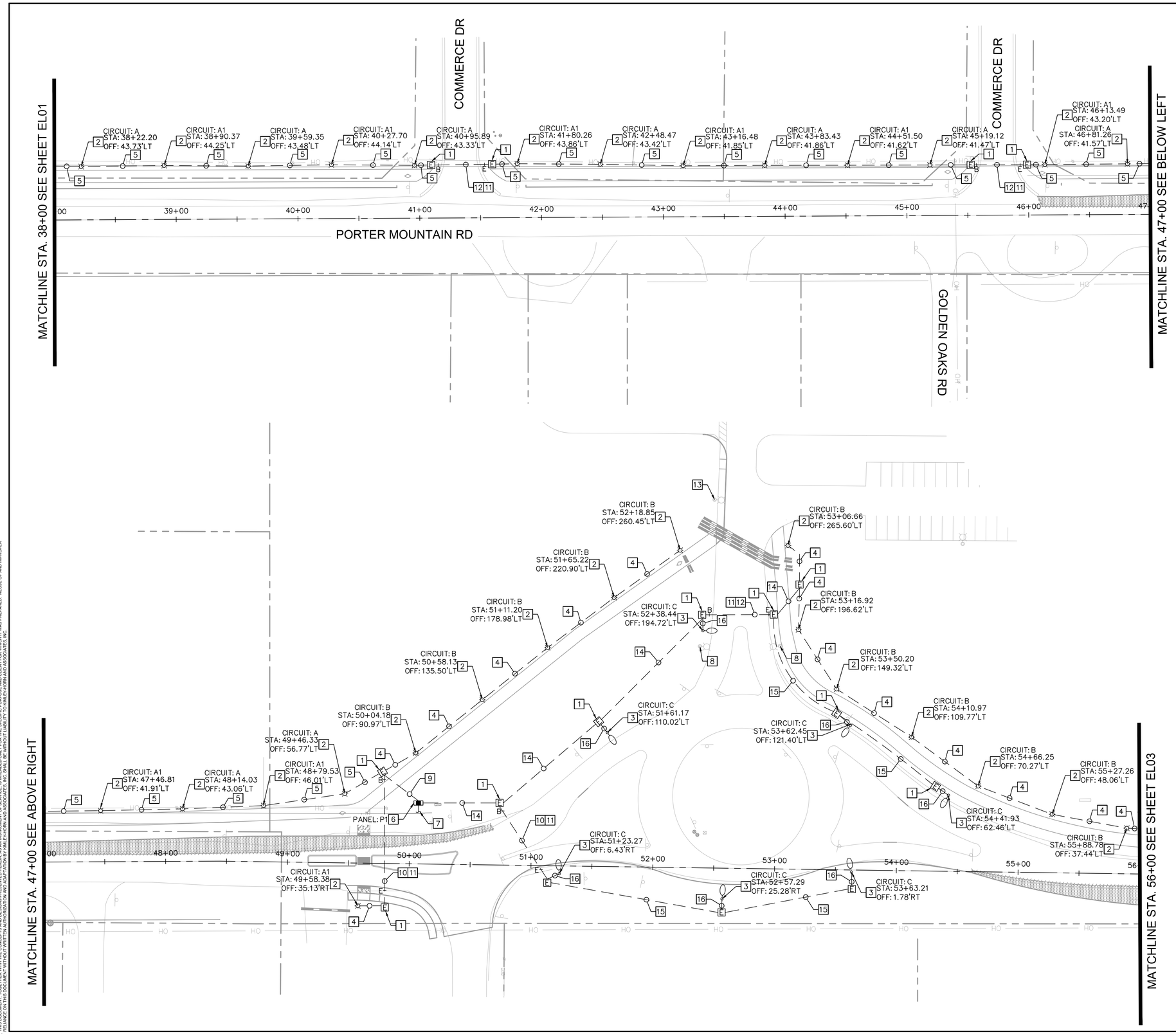
SCALE (H): 1" = 40'
SCALE (V): N/A
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ELECTRICAL PLAN
STA 20+00 TO STA 38+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA U.S.A.
Expires 03/31/27

PROJECT NO.
291056010

DRAWING NAME
EL01



ELECTRICAL NOTES

1. FURNISH AND INSTALL NEW ELECTRICAL PULL BOX. SEE DETAIL G ON SHEET ED01.
2. FURNISH AND INSTALL NEW 31.6W 1SA-WP9S2-27L-350-3K7-1-CP-BC-3-UNV-BLT-7PR LUMINAIRE ON 16' STEEL LIGHT POLE. SEE DETAIL D ON SHEET ED01.
3. FURNISH AND INSTALL NEW 149W ERLH-0-16-C3-30-D-GRAY LUMINAIRE ON 30' LIGHT POLE WITH 15' MAST ARM. SEE DETAIL F ON SHEET ED01.
4. FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (2) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
5. FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (4) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
6. FURNISH AND INSTALL 120/240V, 100A, 1-PHASE NEMA 3R METER PEDESTAL. SEE DETAIL H ON SHEET ED02.
7. (1) 2.5" SCHEDULE 40 PVC CONDUIT TO SERVICE POINT OF CONNECTION. CONDUCTORS TO BE INSTALLED BY UTILITY COMPANY.
8. EXISTING LIGHT POLE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO DE-ENERGIZATION AND REMOVAL. RETURN POLE AND MAST ARM TO OWNER AND REMOVE FOUNDATION 2' BELOW GRADE. ABANDON CONDUIT AND REMOVE CONDUCTORS BACK TO ADJACENT SPLICE POINT.
9. FURNISH AND INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (6) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
10. FURNISH AND INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT WITH (2) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
11. CONDUIT TO BE INSTALLED BY DIRECTIONAL BORE.
12. FURNISH AND INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT WITH (4) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
13. EXISTING, PROTECT IN PLACE.
14. FURNISH AND INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (4) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
15. FURNISH AND INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (2) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.
16. FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (2) #12 AWG THWN-2 AND (1) #12 THWN-2 GROUND.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1" = 40'
SCALE (V): N/A
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
ELECTRICAL PLAN
STA 38+00 TO STA 56+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA, U.S.A.
Expires 03/31/27

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

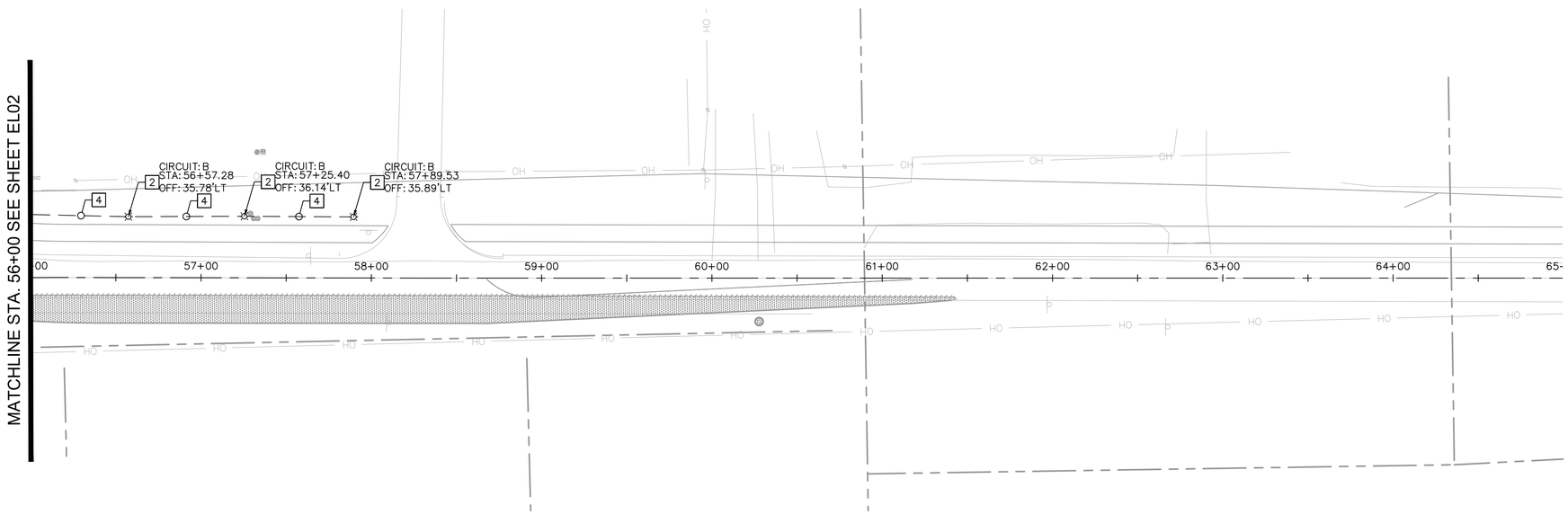
PROJECT NO.
291056010

DRAWING NAME
EL02

ELECTRICAL NOTES

2 FURNISH AND INSTALL NEW 31.6W 1SA-WP9S2-27L-350-3K7-1-CP-BC-3-UNV-BLT-7PR LUMINAIRE ON 16' STEEL LIGHT POLE. SEE DETAIL D ON SHEET ED01.

4 FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH (2) #8 AWG THWN-2 AND (1) #8 THWN-2 GROUND.



GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): 1" = 40'
SCALE (V): N/A
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

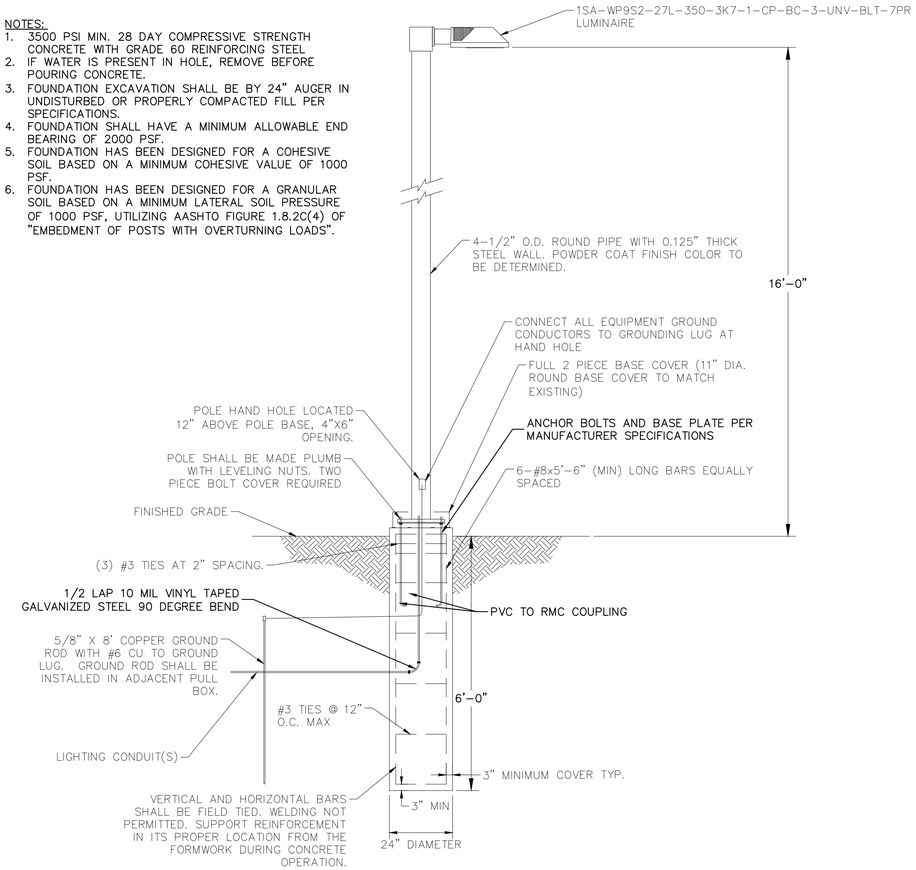
PORTER MOUNTAIN ROAD
IMPROVEMENTS
ELECTRICAL PLAN
STA 56+00 TO STA 65+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA U.S.A.
Expires 03/31/27

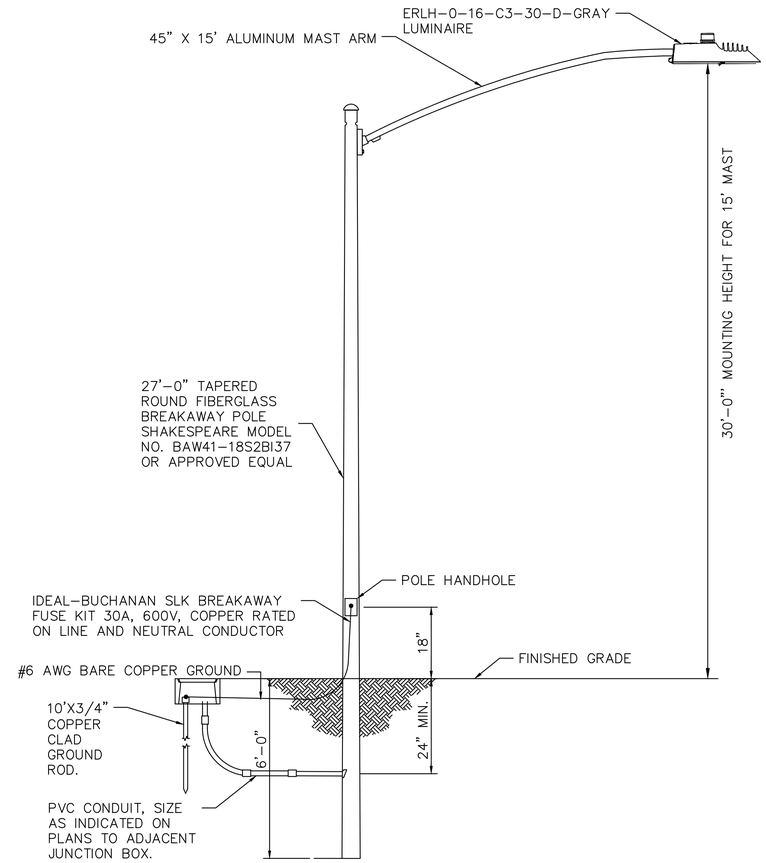
PROJECT NO.
291056010

DRAWING NAME
EL03

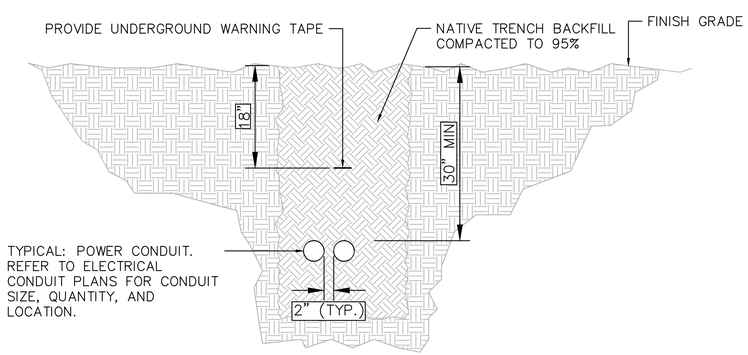
NOTES:
1. 3500 PSI MIN. 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REINFORCING STEEL
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL PER SPECIFICATIONS.
4. FOUNDATION SHALL HAVE A MINIMUM ALLOWABLE END BEARING OF 2000 PSF.
5. FOUNDATION HAS BEEN DESIGNED FOR A COHESIVE SOIL BASED ON A MINIMUM COHESIVE VALUE OF 1000 PSF.
6. FOUNDATION HAS BEEN DESIGNED FOR A GRANULAR SOIL BASED ON A MINIMUM LATERAL SOIL PRESSURE OF 1000 PSF, UTILIZING AASHTO FIGURE 1.8.2C(4) OF "EMBEDMENT OF POSTS WITH OVERTURNING LOADS".



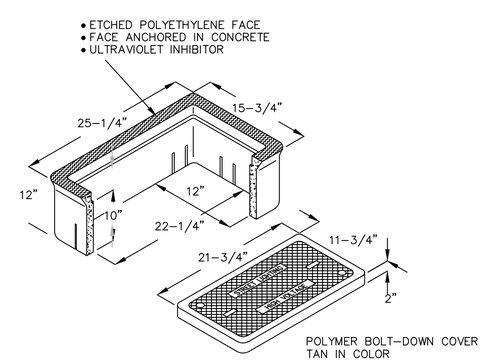
D PATH LIGHT DETAIL
SCALE: N.T.S.



F STREET LIGHT POLE DETAIL
SCALE: N.T.S.



E TRENCH DETAIL
SCALE: N.T.S.



G NO. 5 PULL BOX DETAIL
SCALE: N.T.S.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

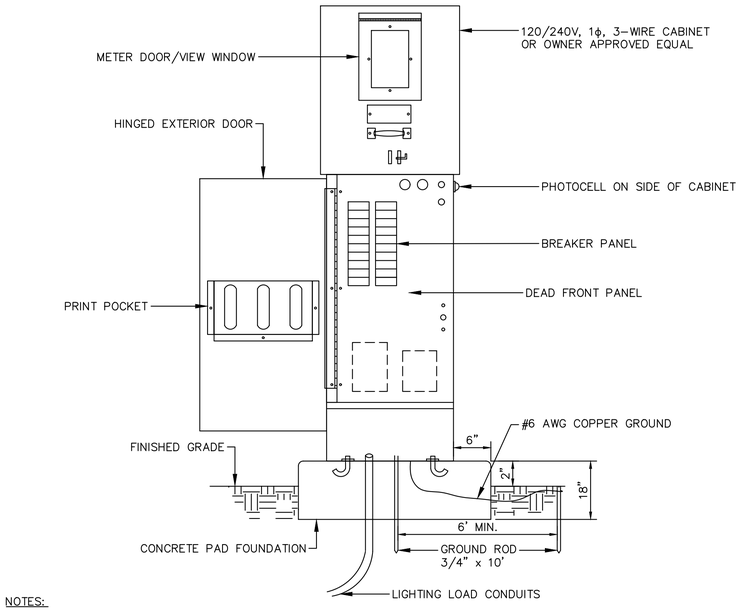
SCALE (H):
SCALE (V):
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ELECTRICAL DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA, U.S.A.
Expires 03/31/27

PROJECT NO. 291056010

DRAWING NAME ED01

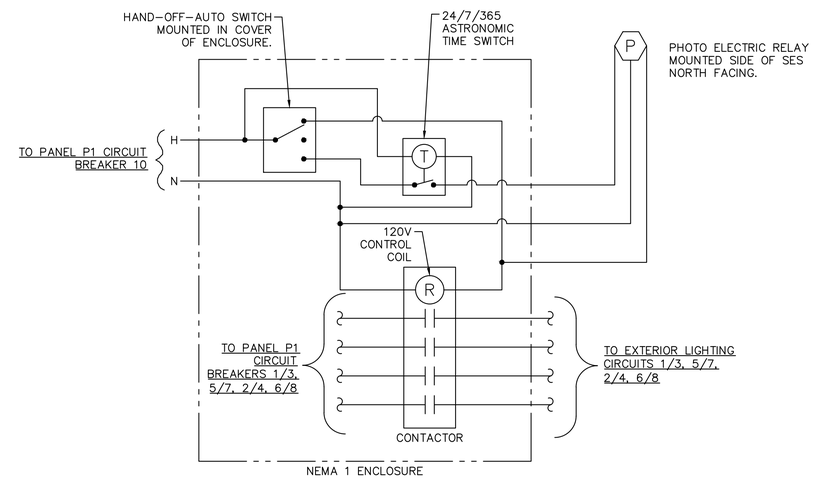


NOTES:

1. CONTRACTOR TO SUBMIT FOR APPROVAL SHOP DRAWINGS FOR CONTROL CENTER RELATED MATERIAL.
2. INSTALLATION AND MATERIALS SHALL COMPLY WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS.
3. 1" SLEEVE (FOR GROUND ROD) SHALL BE INSERTED WHEN FOUNDATION IS POURED PER UTILITY COMPANY REQUIREMENTS.
4. LINE SIDE CONDUIT SHALL BE PER UTILITY COMPANY REQUIREMENTS.
5. CONTROLLER CABINET SHALL BE EQUIPPED WITH A HIGH PRESSURE LUG FOR UTILITY CONDUCTOR CONNECTION.
6. CONCRETE PAD SHALL EXTEND 6" BEYOND METER PEDESTAL ON ALL SIDES.

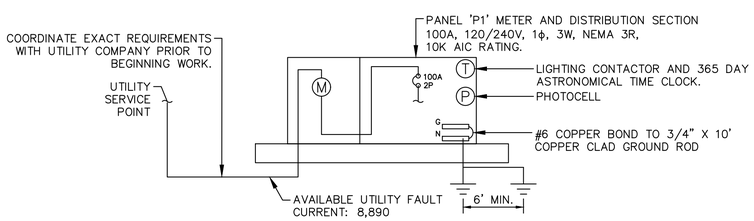
H TYPICAL METER PEDESTAL

SCALE: N.T.S.



J LIGHTING CONTROL DETAIL

SCALE: N.T.S.



I SINGLE LINE DIAGRAM PANEL P1

SCALE: N.T.S.

PANEL NAME: P1

LOCATION: CORNER
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/240V
PHASES: 1
WIRES: 3

AIC RATING: 10K Fully Rated
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

CKT	CIRCUIT DESCRIPTION	LOAD TYPE	TRIP	POLES	A (VA)		B (VA)		POLES	TRIP	LOAD TYPE	CIRCUIT DESCRIPTION	CKT
1	MAIN	O	100	2	0	255			2	20	L	Lighting Circuit B	2
3							0	255					4
5	Lighting Circuit A	L	20	2	335	522			2	20	L	Lighting Circuit C	6
7							335	522					8
9	Lighting Circuit A1	L	20	2	335	180			1	15	E	Lighting Control	10
11							335						12
				TOTAL LOAD:	1,627 VA		1,447 VA						
				TOTAL AMPS:	13.6 A		12.1 A						

LOAD CLASSIFICATION	CONNECTED LOAD: (VA)	DEMAND FACTOR	EST. DEMAND (VA)	PANEL TOTALS	
LARGEST MOTOR LOAD (M)	0.0	125.00%	0.0	TOTAL CONN. LOAD (VA):	3074
HVAC (H) & ALL OTHER MOTORS (M)	0.0	100.00%	0.0	TOTAL EST. DEMAND (VA):	1988.75
RECEPTACLE (R)	0.0	100.00%	0.0	TOTAL CONN. (A):	12.8
LIGHTING (L)	1447.0	125.00%	1808.8	TOTAL EST. DEMAND (A):	8.3
EQUIPMENT (E)	180.0	100.00%	180.0	PERCENT LOADED:	8%
OTHER (O) (SEE NOTES)	0.0	0.00%	0.0		

K PANEL SCHEDULE

SCALE: N.T.S.

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H):
SCALE (V):
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD IMPROVEMENTS
ELECTRICAL DETAILS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical) CERTIFICATE NO. 80307 Jackson D. Modrak Date Signed 02/20/24 ARIZONA U.S.A.
Expires 03/31/27

PROJECT NO. 291056010

DRAWING NAME ED02

LIGHT FIXTURE LEGEND

SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	MAST ARM	TOTAL LUMENS	WATTAGE
	59	1SA-WP9S2-27L-350-3K7-1-CP-BC-3-UNV-BLT-PR7	SINGLE	POLE MOUNTED	16'	N/A	1,989	31.6 W
	7	ERLH-0-16-C3-30-D-GRAY	SINGLE	POLE MOUNTED	30'	15'	14,900	149 W

DESIGN CRITERIA

PORTER MOUNTAIN ROAD

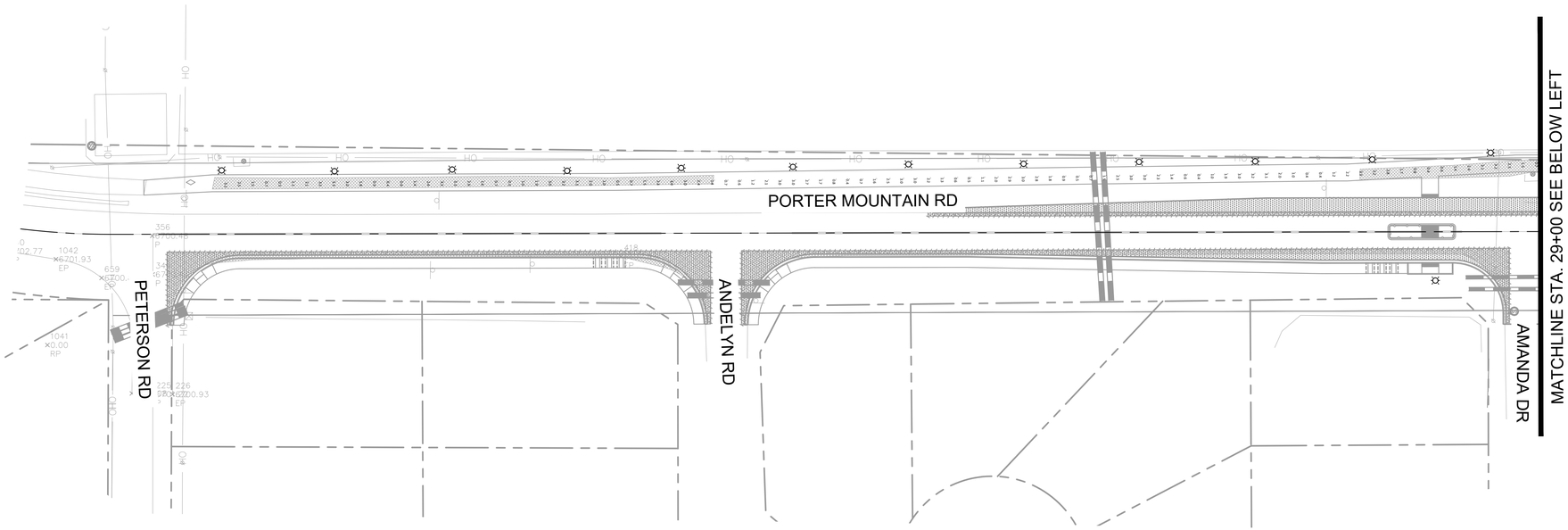
ROUNDABOUT*	PATHWAYS**
ILLUMINANCE (Fc)	ILLUMINANCE (Fc)
AVERAGE = 1.5	AVERAGE = 0.2
AVG:MIN = 4.0	AVG:MIN = 5.0

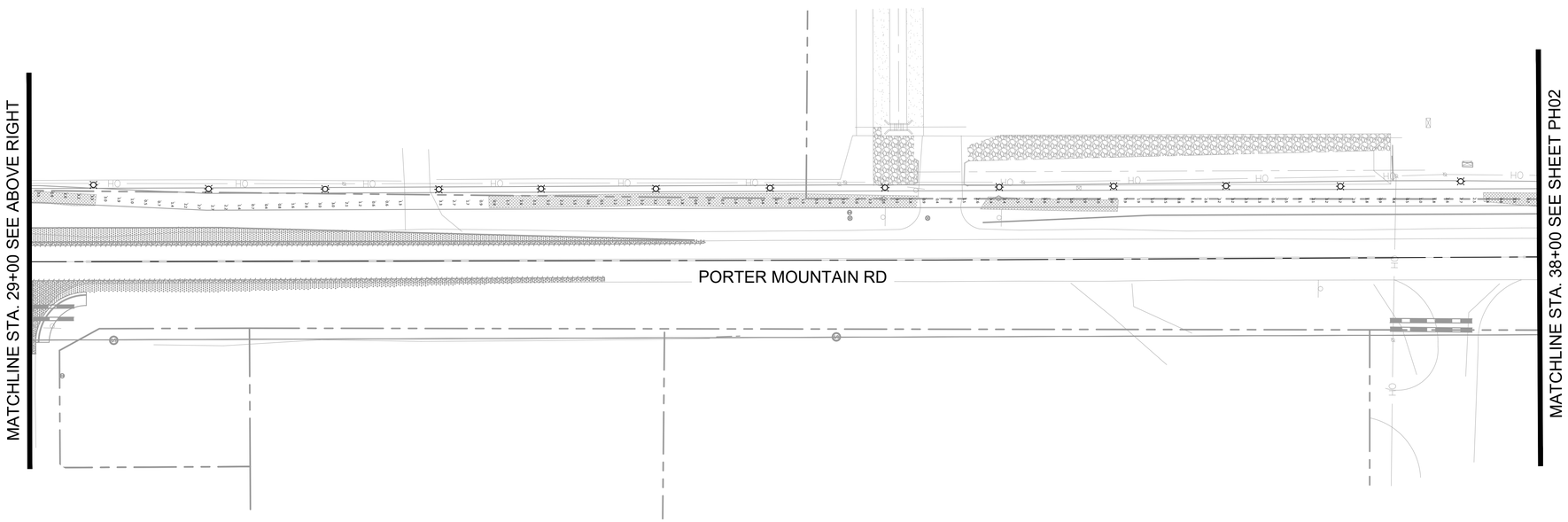
*PER IESNA RP-8-21, TABLE 12-4
**PER IESNA RP-8-21, TABLE 11-2

CALCULATION SUMMARY

PORTER MOUNTAIN ROAD

ROUNDABOUT	PATHWAYS
ILLUMINANCE (Fc)	ILLUMINANCE (Fc)
AVERAGE = 1.64	AVERAGE = 1.82
AVG/MIN = 4.1	AVG/MIN = 4.55





GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928)458-7121

SCALE (H): 1" = 40'
SCALE (V): N/A
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
PHOTOMETRIC LAYOUT
STA 20+00 TO STA 38+00
PINETOP-LAKESIDE LAKESIDE, AZ

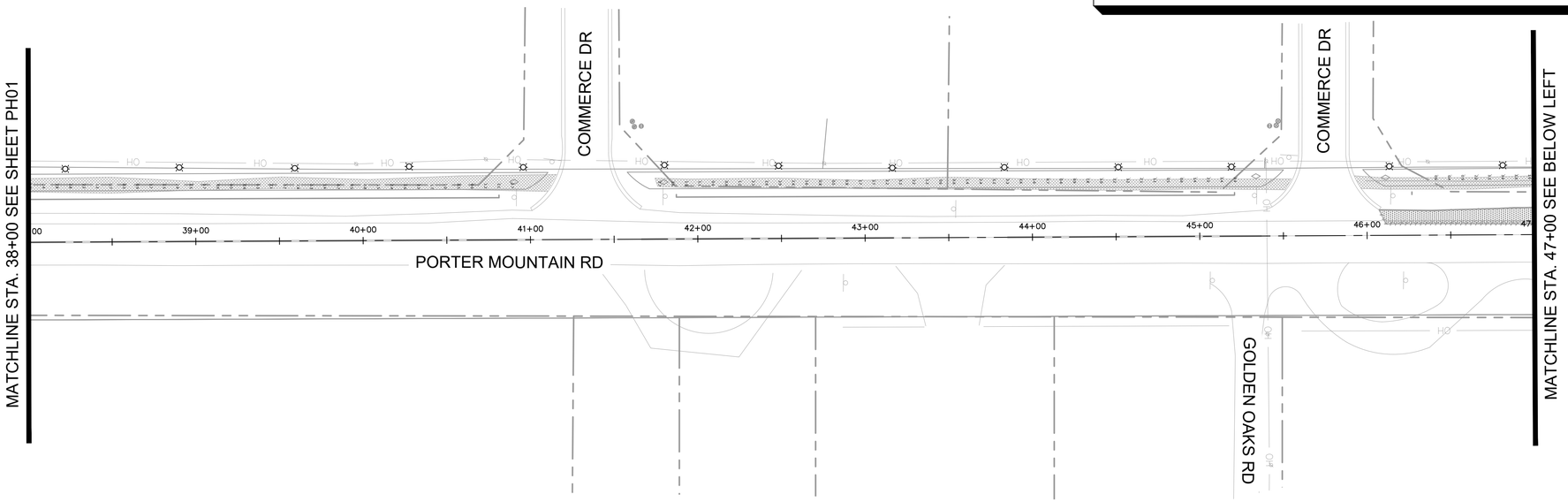
Registered Professional Engineer (Electrical)
State of Arizona
80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA U.S.A.
Expires 03/31/27

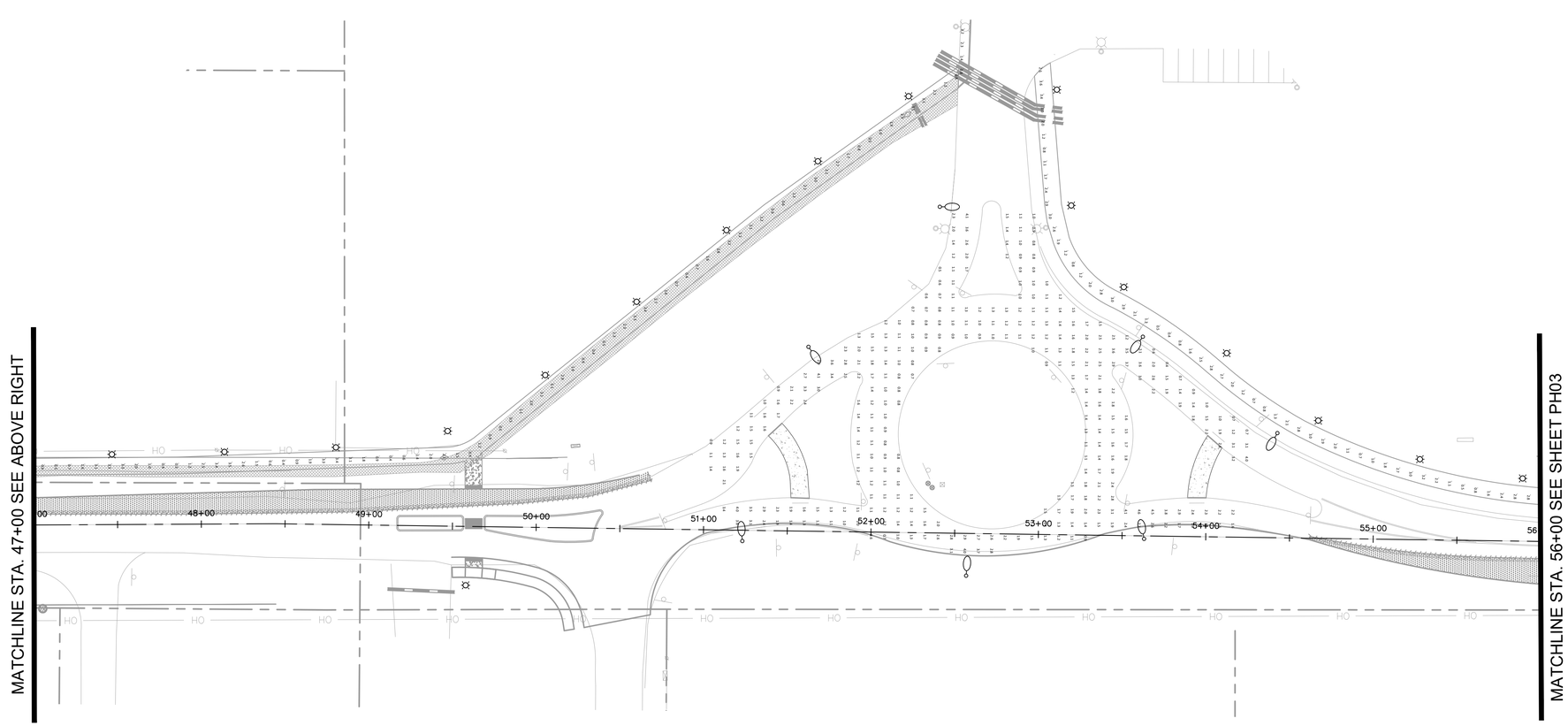
PROJECT NO.
291056010

DRAWING NAME
PH01

LIGHT FIXTURE LEGEND

SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	MAST ARM	TOTAL LUMENS	WATTAGE
	59	1SA-WP9S2-27L-350-3K7-1-CP-BC-3-UNV-BLT-PR7	SINGLE	POLE MOUNTED	16'	N/A	1,989	31.6 W
	7	ERLH-0-16-C3-30-D-GRAY	SINGLE	POLE MOUNTED	30'	15'	14,900	149 W





DESIGN CRITERIA

PORTER MOUNTAIN ROAD

ROUNDABOUT*	PATHWAYS**
ILLUMINANCE (Fc)	ILLUMINANCE (Fc)
AVERAGE = 1.5	AVERAGE = 0.2
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*PER IESNA RP-8-21, TABLE 12-4
**PER IESNA RP-8-21, TABLE 11-2

CALCULATION SUMMARY

PORTER MOUNTAIN ROAD

ROUNDABOUT	PATHWAYS
ILLUMINANCE (Fc)	ILLUMINANCE (Fc)
AVERAGE = 1.64	AVERAGE = 1.82
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GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

101 WEST GOODWIN STREET, SUITE 303
PRESCOTT, ARIZONA 86303 (928) 458-7121

SCALE (H): 1" = 40'
SCALE (V): N/A
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
PHOTOMETRIC LAYOUT
STA 38+00 TO STA 56+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
80307
Jackson D.
Modrak
Date Signed 02/20/24
ARIZONA, U.S.A.
Expires 03/31/27

PROJECT NO.
291056010

DRAWING NAME
PH01

LIGHT FIXTURE LEGEND

SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	MAST ARM	TOTAL LUMENS	WATTAGE
	59	1SA-WP9S2-27L-350-3K7-1-CP-BC-3-UNV-BLT-PR7	SINGLE	POLE MOUNTED	16'	N/A	1,989	31.6 W
	7	ERLH-0-16-C3-30-D-GRAY	SINGLE	POLE MOUNTED	30'	15'	14,900	149 W

DESIGN CRITERIA

PORTER MOUNTAIN ROAD

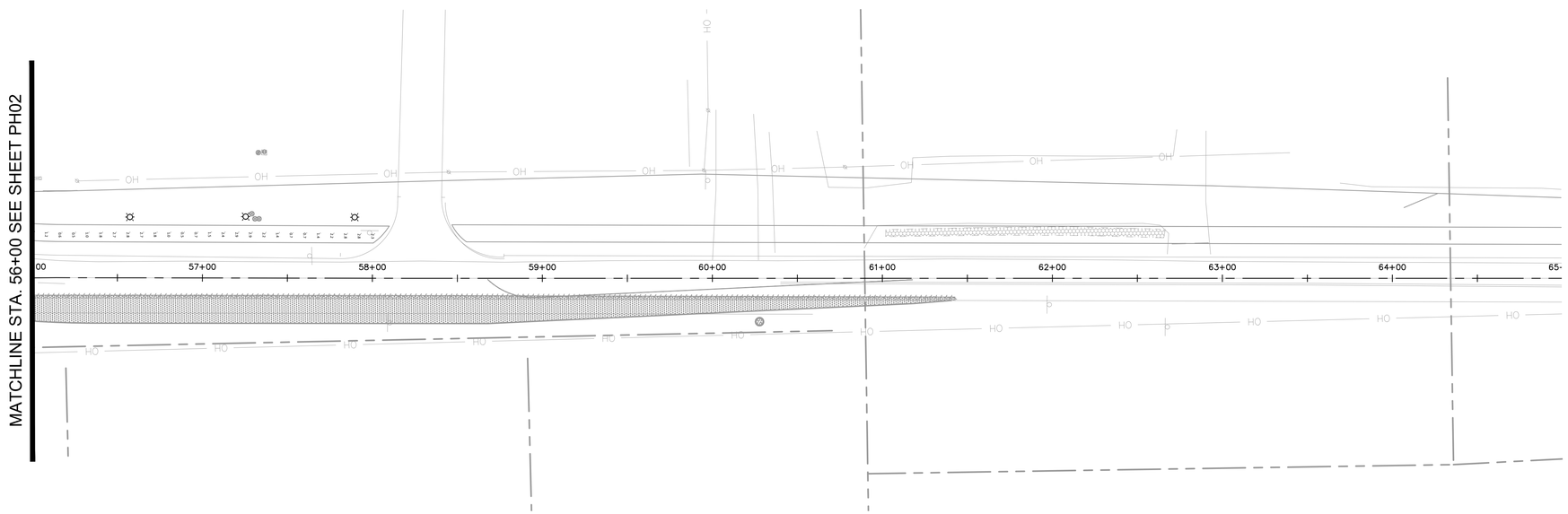
ROUNDABOUT*	PATHWAYS**
ILLUMINANCE (Fc)	ILLUMINANCE (Fc)
AVERAGE = 1.5	AVERAGE = 0.2
AVG:MIN = 4.0	AVG:MIN = 5.0

*PER IESNA RP-8-21, TABLE 12-4
**PER IESNA RP-8-21, TABLE 11-2

CALCULATION SUMMARY

PORTER MOUNTAIN ROAD

ROUNDABOUT	PATHWAYS
ILLUMINANCE (Fc)	ILLUMINANCE (Fc)
AVERAGE = 1.64	AVERAGE = 1.82
AVG/MIN = 4.1	AVG/MIN = 4.55



GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

Call at least two full working days before you begin excavation.
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Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	DATE	APPR.

PINETOP / LAKESIDE
Celebrate the Seasons

Kimley»Horn

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SCALE (H): 1" = 40'
SCALE (V): N/A
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
PHOTOMETRIC LAYOUT
STA 56+00 TO STA 65+00
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA, U.S.A.
Expires 03/31/27

PROJECT NO.
291056010

DRAWING NAME
PH03

EVOLVE

ERLH Cobra Head
LED Roadway Lighting

CUSTOMER NAME
PROJECT NAME
DATE _____ TYPE
CATALOG NUMBER

ERLH

PROD. ID	VOLTAGE	LUMENS	DISTRIBUTION	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS
-- -- --	--	-- --	-- --	-- --	--	----	--- --
E = Evolve	2 = 120-277V[1]	10 = 10000 lm	A3 = Type II Narrow	27 = 2700K[4]	A = 7-Pin Receptacle	BLCK = Black	A = 4 Bolt Slipfitter[14]
R = Roadway	H = 347-480V[1]	11 = 11000 lm	B3 = Type II Wide	30 = 3000K[4]	D = 7-Pin Receptacle with Shorting Cap	DKBZ = Dark Bronze	B = Tether
L = Local		13 = 13000 lm	C3 = Type III	40 = 4000K	E = 7 Pin Receptacle with Long Life non-Dimming PE Control[6]	GRAY = Gray	F = Fusing
H = High Output	1 = 120V	14 = 14000 lm	D3 = Type IV		Note: 0-10V control standard unless DALI Option "U" requested	WHTE= White	G = Internal Bubble Level
	2 = 208V	15 = 15000 lm	E3 = Type II Enhanced Back Light				I = Optional IP66 Optical
	3 = 240V	16 = 16000 lm					L = Tool-Less Entry
	4 = 277V						R = Secondary 10kV/5kA SPD
	5 = 480V						T = Secondary 20kV/10kA SPD
	0 = 347V						U = DALI Programmable[9,10]
							V1 = Field Adjustable Module[8]
							X = Single Pack[7]
							Y = Coastal Finish[11]
							XXX = Special Options

[1] Not Available with Fusing
[2] Nominal IES Type viewing subject to typical variation. Individual units may differ
[3] Select 2700K or 3000K CCT for IDA approved units
[4] Lead time varies, Contact Factory
[5] Compatible with LightGrid
[6] Not available with 347, 480V, or 347-480V.
[7] Option provides single pack box per fixture. Standard packaging = 22 units per MagnaPak Container
[8] Recommended for installations within 750 feet from coast. Lead time varies, check with factory.
[9] Not available with DALI "U" option

SUGGESTED HID REPLACEMENT

- Approximately 8,500 -11,500 lumens to replace 200W HPS Cobra-head
- Approximately 11,500 -14,000 lumens to replace 250W HPS Cobra-head

Note: actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

PREVIOUS	OPTICAL PATTERN	LATEST	NEW OPTICAL PATTERN
A5, B5	Extra Narrow/Narrow Asymmetric	A3	Type II Narrow
C5, E5	Asymmetric Short/ Medium	B3	Type II Wide
D5, G5	Asymmetric Forward/ Extra Wide	C3	Type III
F5	Asymmetric Wide	D3	Type IV
N/A	N/A	E3	Type II Enhanced Back Light

The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is by doing a lighting layout.

Not all product variations listed on this page are DLC qualified.
Visit www.designlights.org/search to confirm qualifications.

Current

LED.com
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Page 13 of 23
(Rev 06/28/23)
OLF3125_RD9

EVOLVE

ERLH Cobra Head
LED Roadway Lighting

CUSTOMER NAME
PROJECT NAME
DATE _____ TYPE
CATALOG NUMBER

The Evolve® LED Roadway ERLH Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life.

Construction

Housing:	Aluminum die cast enclosure casting integral heat sink for maximum heat transfer
Lens:	Impact resistant tempered glass
Paint:	Corrosion resistant powder paint, ≥ 2.0 mil thickness (RAL & custom colors available) Standard = Black, Dark Bronze, Gray, White Optional = Coastal Finish
Weight:	15.15 lbs (6.9 kgs) w/ 2 Bolt Slipfitter 15.85 lbs (7.2 kgs) w/ 4 Bolt Slipfitter

Optical System

Lumens:	10,000-16,000
Distribution:	Type II Narrow, Type II Wide, Type III, Type IV and Type II Enhanced Back Light
Efficacy:	110-143 LPW
CCT:	2700K, 3000K, 4000K
CRI:	≥70

Electrical

Input Voltage:	120-277V or 347-480V
Input Frequency:	50/60Hz
Power Factor:	≥ 90% at rated watts
Total Harmonic Distortion:	≤ 20% at rated watts

Surge Protection*

STANDARD	OPTIONAL
10kV/5kA	Secondary 10kV/5kA (R Option) or Secondary 20kV/10kA (T Option)

*Per ANSI C136.2-2015

Lumen Maintenance

Projected Lxx per IES TM-21-11 at

LUMEN CODES	DISTRIBUTIONS	LXX(10K) @ HOURS 25,000 HR	50,000 HR	60,000 HR
A3, B3, C3, D3, E3	10,11	L97	L96	L96
A3, B3, C3, D3, E3	13,14	L95	L93	L92
A3, B3, C3, D3, E3	15,16	L94	L91	L91

Ratings

Operating Temperature:	ERLH Lumen outputs 10-11, 13 (-40°C to 50°C) ERLH Lumen outputs 14-16 (-40°C to 45°C)
Vibration:	3G per ANSI C136.31-2018
LM-79:	Testing in accordance with IES Standards

Controls

Dimming:	Standard - 0-10V ☐ Optional - DALI (Option U) ☐
Sensors:	Photo Electric Sensors (PE) available LightGrid Compatible

Warranty

☐ 5 Year (Standard) ☐ 10 Year (Optional)

Not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualifications.

Current

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Page 12 of 23
(Rev 06/28/23)
OLF3125_RD9

L ROUNDABOUT FIXTURE CUTSHEET
SCALE: N.T.S.

KIMLIGHTING®

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

WP9SA2
ARCHITECTURAL AREA/SITE

Warp9®

RELATED PRODUCTS
Ouro Pavilion PGL8

FEATURES
- TIR Strike Optics
- Patented low profile luminaire
- Available in Monochromatic Amber, 2700K, 3000K, 3500K, 4000K and 5000K
- Type 1, 2, 3, 4, 4W, 5Q, L, and R distributions
- 0 - 10V dimming drivers standard
- IP65 optical assembly

CONTROL TECHNOLOGY
NX LIGHTING CONTROLS LIGHTGRID®

SPECIFICATIONS

CONSTRUCTION
- One piece die-cast housing, low copper (<0.6% Cu) Aluminum Alloy with integral cooling ribs over the optical chamber and electrical compartment
- Solid barrier wall separates optical and electrical compartments
- Double-thick wall with gussets on the support-arm mounting end
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail
- All hardware is stainless steel or electro-zinc plated steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange
- Optional clear 1/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimete
- Optional, fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens. CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance
- One-piece extruded aluminum arm with internal bolt guides and fully radiussed top and bottom
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief
- Arm is circular cut for specified round pole

CONSTRUCTION (CONTINUED)
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate

OPTICS
- Optical cartridge system consisting of a die cast heat sink, LED Total Internal Reflection (TIR) optics, gasket and bezel plate
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs
- Optional BackLight Control for complete control of unwanted backlight
- IP65 Optical assembly
- Type 1, 2, 3, 4, 4W, 5Q, R, and L standard distributions
- Available in Monochromatic Amber, 2700K, 3000K, 3500K, 4000K and 5000K
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level
- Anodized aluminum heat sink modules

INSTALLATION
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL
- Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver

ELECTRICAL (CONTINUED)
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile
- Surge protection: 10kV surge suppression
- SF for 120, 277, 347 Line volts
  DF for 208, 240, 480 Line volts

CONTROLS
- 7-pin Receptacle and Button Photocell

CERTIFICATIONS AND LISTINGS
- Listed to UL1598 and CSA C22.2#250.0-24 for wet location and 40°C ambient temperature
- IDA approved, 3000K and warmer CCTs only
- ANSI C136.31-2010 3G Vibration tested and compliant
- RoHS compliant
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. See Buy American Solutions

WARRANTY
- 5 year warranty

KEY DATA	
Lumen Range	1,783–14,924
Wattage Range	31.6–116.5
Efficacy Range (LPW)	55.8–134.4
Reported Life (Hours)	L70/60,000
Weight	30 lbs 13.6 kg
EPS Side View	.52

Current

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KIMLIGHTING®

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

WP9SA2
ARCHITECTURAL AREA/SITE

ORDERING GUIDE

CATALOG # _____ **Example:** 15A-WP9SA2-54L-405-3K7-3-CLR-SQ-UNV-BLT-7PR-SF

Mounting Options		Model	LED Engine		CCT/CRI [1]		Distribution		Lens Options		House Side Shield
		WP9SA2									
15A	Single Arm Mount	WP9SA2 Warp9 LD Series Fixture	27L-350	27 LEDs – 3,500 Lumens	AM [2]	Monochromatic Amber	1	Type I	(Blank)	No Lens	BC [1] Backlight Control
					27K8 [2]	2700K, 80CRI	2	Type II	CLR	Clear Glass Lens	
TW	Wall Mount		54L-405	54 LEDs – 7,500 Lumens	27K9 [2]	2700K, 90CRI	3	Type III	CP	Clear Polycarbonate Lens	
HSF	Horizontal Slipfitter		81L-450	81 LEDs – 12,500 Lumens	3K7	3000K, 70CRI	4	Type IV Forward			
					3K8 [2]	3000K, 80CRI	4W	Type IV Wide			
					3K9 [2]	3000K, 90CRI	5QM	Type V Square Medium			
					35K8 [2]	3500K, 80CRI	R	Corner Right			
			Equivalent WP9S-F13 = 54L-405 WP9S-F70 = 81L-450 WP9S-E25 = 54L-405		35K9 [2]	3500K, 90CRI	L	Corner Left			
					4K7	4000K, 70CRI					
					4K8 [2]	4000K, 80CRI					
					4K9 [2]	4000K, 90CRI					
					5K7	5000K, 70CRI					
					5K8 [2]	5000K, 80CRI					
					5K9 [2]	5000K, 90CRI					

Mounting Options		Voltage	Fixture Finish		Photocell Options		Fuse Options		Other Options
VSF [4]	Vertical Slipfitter Mount for 2" pipe tenon (2-3/8"O.D. x 4" LONG)	UNV 120-277V	BLS	Black Gloss Smooth	7PR	7-Pin Photocell Receptacle	SF	Single Fuse (120, 277, 347 Line Volts	TPL Tamper Resistant Latch
SVSF [4]	Vertical Slipfitter Mount square for 2" pipe tenon (2-3/8"O.D. x 4" LONG)	347 347V	BLB	Black Matte Textured	PC	Button Photocell [8]	DF	Double Fuse 208, 240, 480 Line Volts	
		480 480V	DBS	Dark Bronze Gloss Smooth					
3	Side Arm Mount 2" O.D. Pole		DBT	Dark Bronze Matte Textured					
3.38	Side Arm Mount 3.38" O.D. Pole		GTT	Graphite Matte Textured					
3.5	Side Arm Mount 3.5" O.D. Pole		LGS	Light Grey Gloss Smooth					
3.75	Side Arm Mount 3.75" O.D. Pole		LGT	Light Grey Matte Textured					
4	Side Arm Mount 4" O.D. Pole		PBS	Platinum Silver Smooth					
4.5	Side Arm Mount 4.5" O.D. Pole		VGT	Verde Green Matte Textured					
5	Side Arm Mount 5" O.D. Pole		WHS	White Gloss Smooth					
6	Side Arm Mount 6" O.D. Pole		WHT	White Matte Textured					
SQ	Side Arm Mount Square Pole		Color Option						
			CC	Custom Color					

Control Options		Control Accessories [7]
SCH-R	Round Pole Mounted (Occupancy Sensor up to 16' to 30')	WR-RME-L LightGRID™ 7-pin Module
SCH-S	Square Pole Mounted (Occupancy Sensor up to 16' to 30')	NXOFM-1PID-UNV NX 1-Pro Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming

Notes:
1. Black Light Control not available for Type 5Q and Type SW
2. See Lumen Multiplier chart on Page 13 for lumen scaling factor. Consult factory for additional details.
3. Not available with other sensor or wireless control options
4. 5-step MacAdam Ellipse Binning is standard. Consult factory for 3-step MacAdam Ellipse Binning
7. Turtle Friendly
8. For alt. arm configurations, please refer to page 4, VSF/SVSF options ordered separately
9. Not available in 480V

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M PATHWAY FIXTURE CUTSHEET
SCALE: N.T.S.

NO.	REVISION	BY	DATE	APPR.

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SCALE (V):
DESIGNED BY: JDM
DRAWN BY: DKP
CHECKED BY: JDM
DATE: FEB 2024

PORTER MOUNTAIN ROAD
IMPROVEMENTS
PHOTOMETRIC CUTSHEETS
PINETOP-LAKESIDE LAKESIDE, AZ

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 80307
Jackson D. Modrak
Date Signed 02/20/24
ARIZONA, U.S.A.
Expires 03/31/27

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