

Golden Solar

Caldwell County, Kentucky

Preliminary Plan Set

PREPARED FOR:

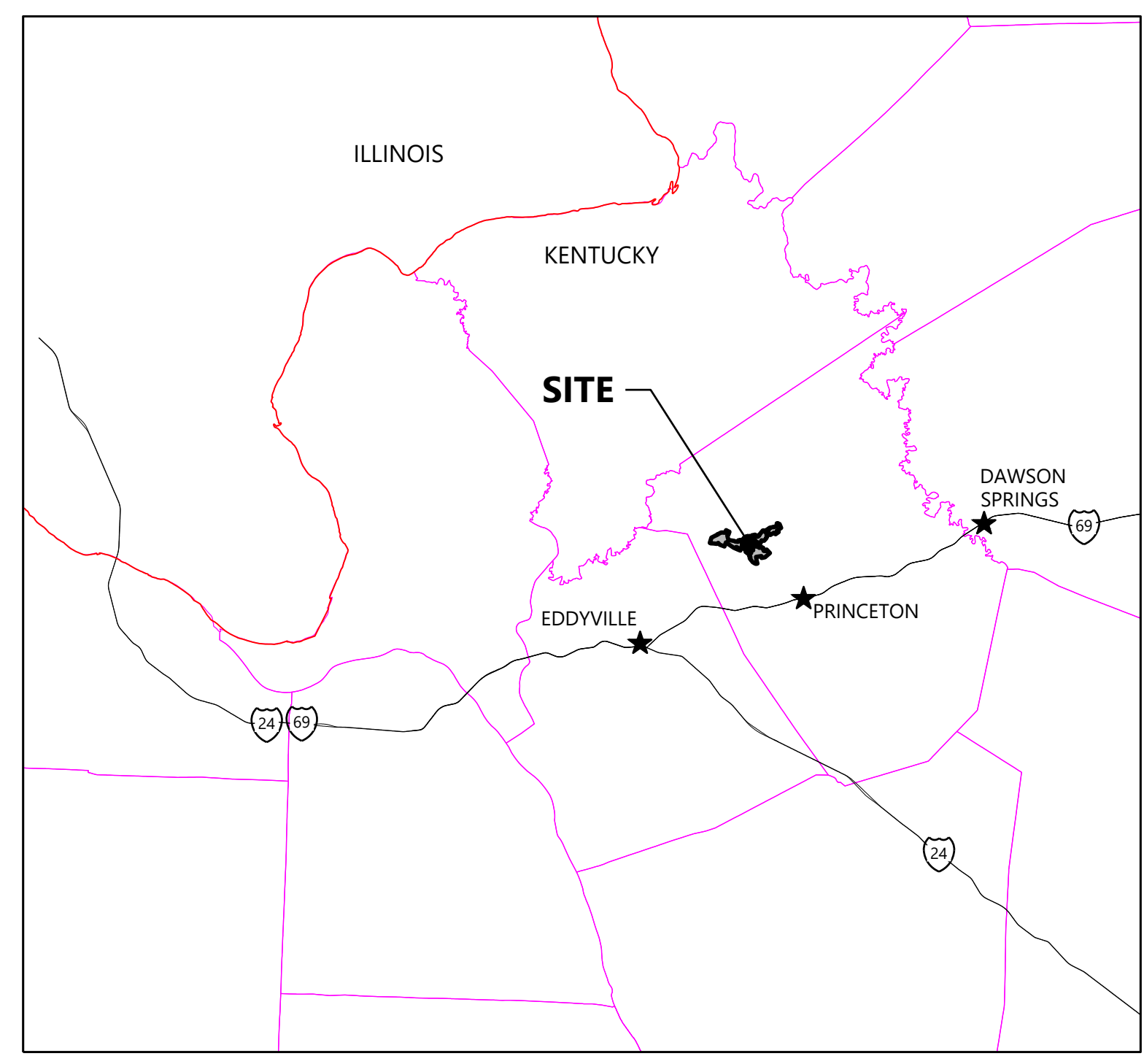


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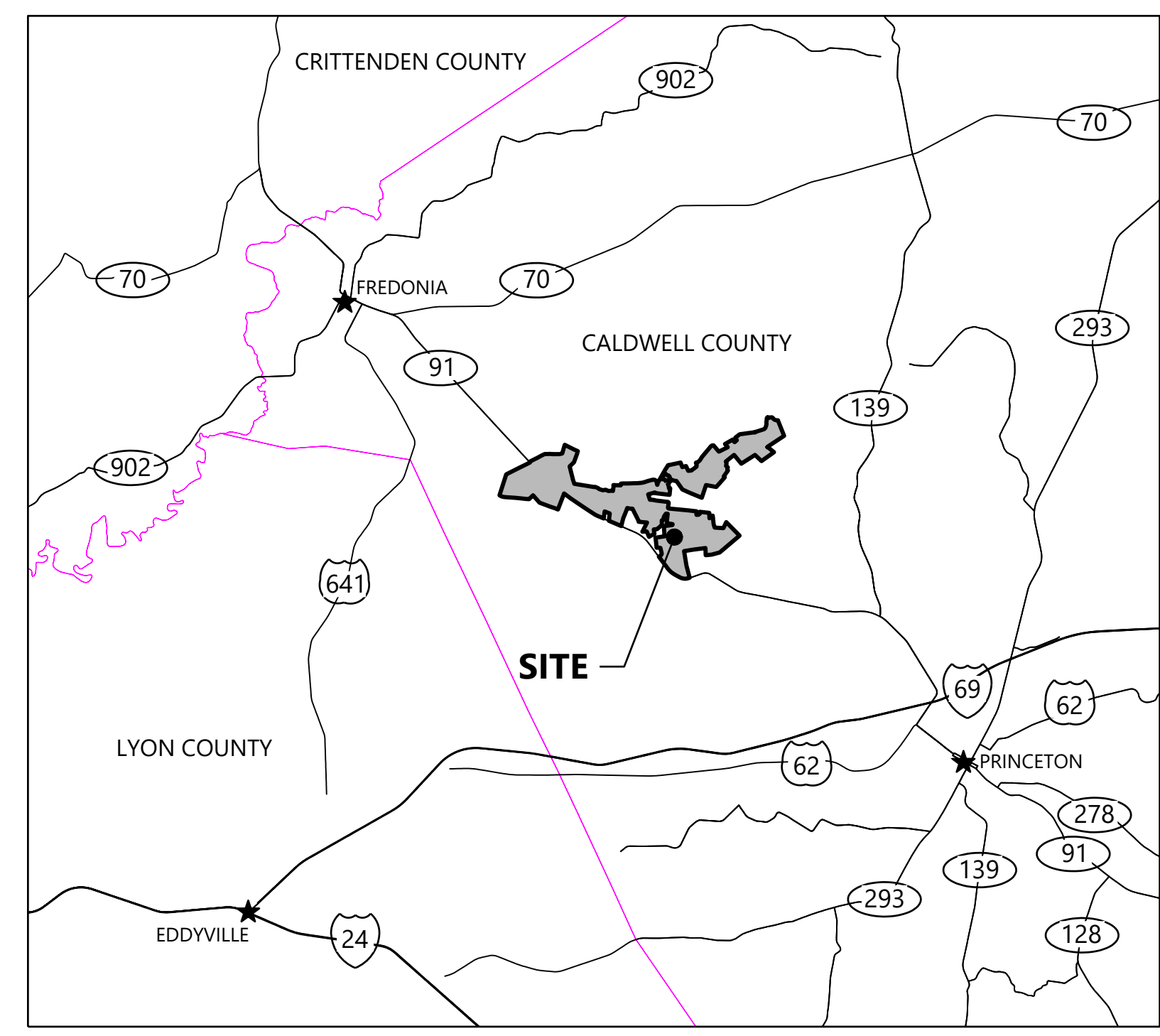
REVISIONS:

#	DATE	COMMENT

REGIONAL MAP



VICINITY MAP



SHEET NUMBER	SHEET TITLE
C.100	Cover
C.200	Overall Site Plan - 1
C.201	Overall Site Plan - 2
C.700	Construction Details - 1
L.100	Buffer Screening Notes & Details

Golden Solar Project
 Caldwell County, Kentucky

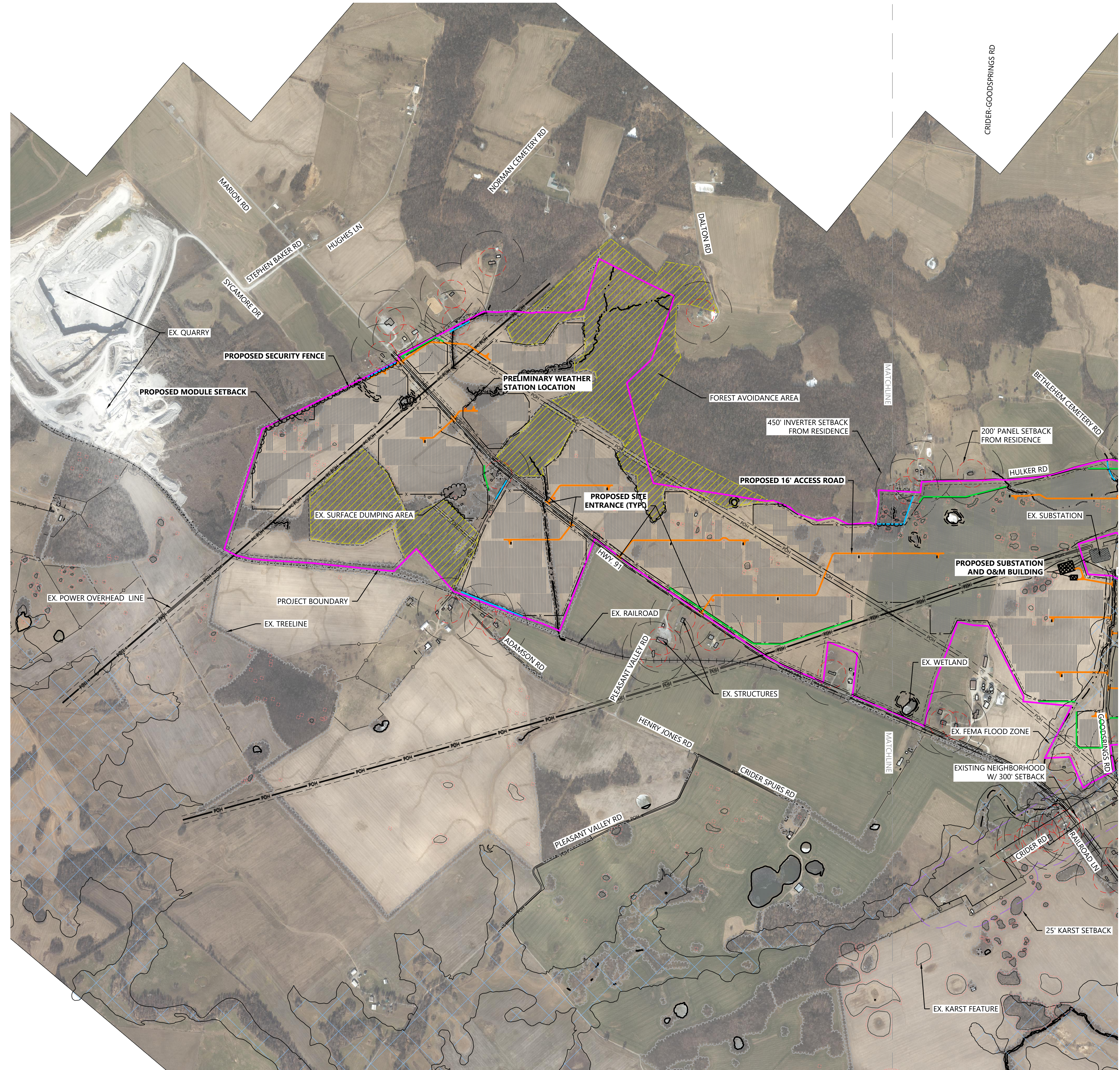
Cover

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DATE: 08/22/2022

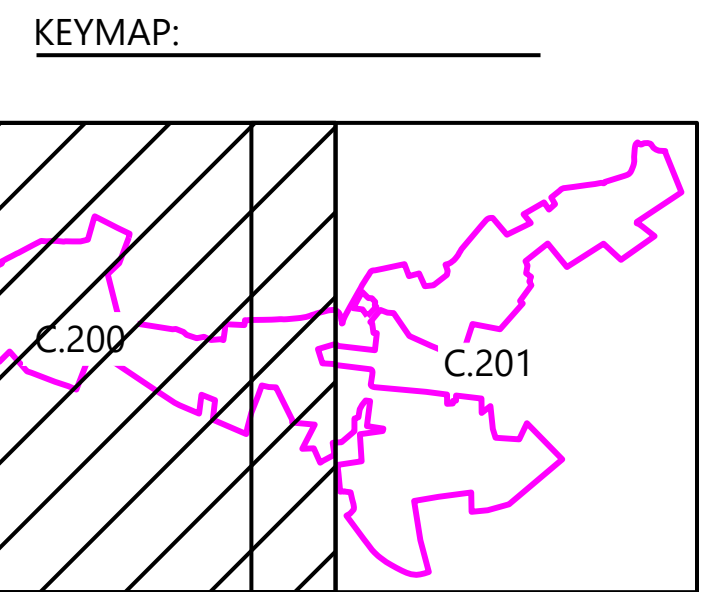
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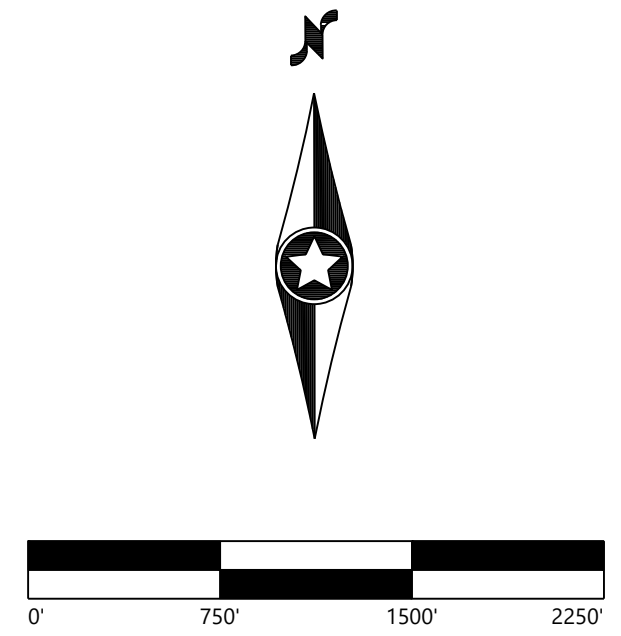
- LEGEND:**
- PROJECT BOUNDARY
 - EASEMENT LINES
 - EX. TREELINE
 - EX. PAVED ROAD
 - EX. GRAVEL ROAD
 - EX. FENCE
 - EX. RAILROAD
 - EX. CULVERT
 - 200' PANEL SETBACK FROM RESIDENCE
 - 450' INVERTER SETBACK FROM RESIDENCE
 - FOREST AVOIDANCE
 - EX. OVERHEAD POWER
 - EX. STREAM CHANNEL
 - EX. WETLAND
 - EX. VEGETATIVE BUFFER
 - WETLAND SETBACK
 - FEMA FLOOD ZONE
 - EX. KARST FEATURE
 - 25' KARST SETBACK / AVOIDANCE
 - PROPOSED SOLAR ARRAY
 - PROPOSED INVERTER AND TRANSFORMER SKID
 - PROPOSED MODULE SETBACK FROM PROPERTY LINE AND AVOIDANCE AREAS
 - PROPOSED VEGETATIVE BUFFER TYPE 1
 - PROPOSED VEGETATIVE BUFFER TYPE 2
 - PROPOSED ACCESS ROAD
 - PROPOSED SECURITY FENCE
 - PRELIMINARY WEATHER STATION LOCATION
 - PROPOSED TREE LINE

- NOTES:**
- FURTHER FIELD INVESTIGATION FOR POTENTIAL KARST LOCATIONS TO BE COMPLETED PRIOR TO CONSTRUCTION.
 - WEATHER STATION LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE WITH FURTHER DESIGN.
 - PROPOSED GENTLE ROUTE IS PRELIMINARY AND SUBJECT TO CHANGE WITH FURTHER DESIGN.



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Overall Site Plan - 1

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SHEET: C.200

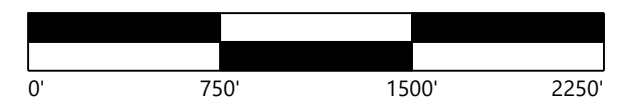
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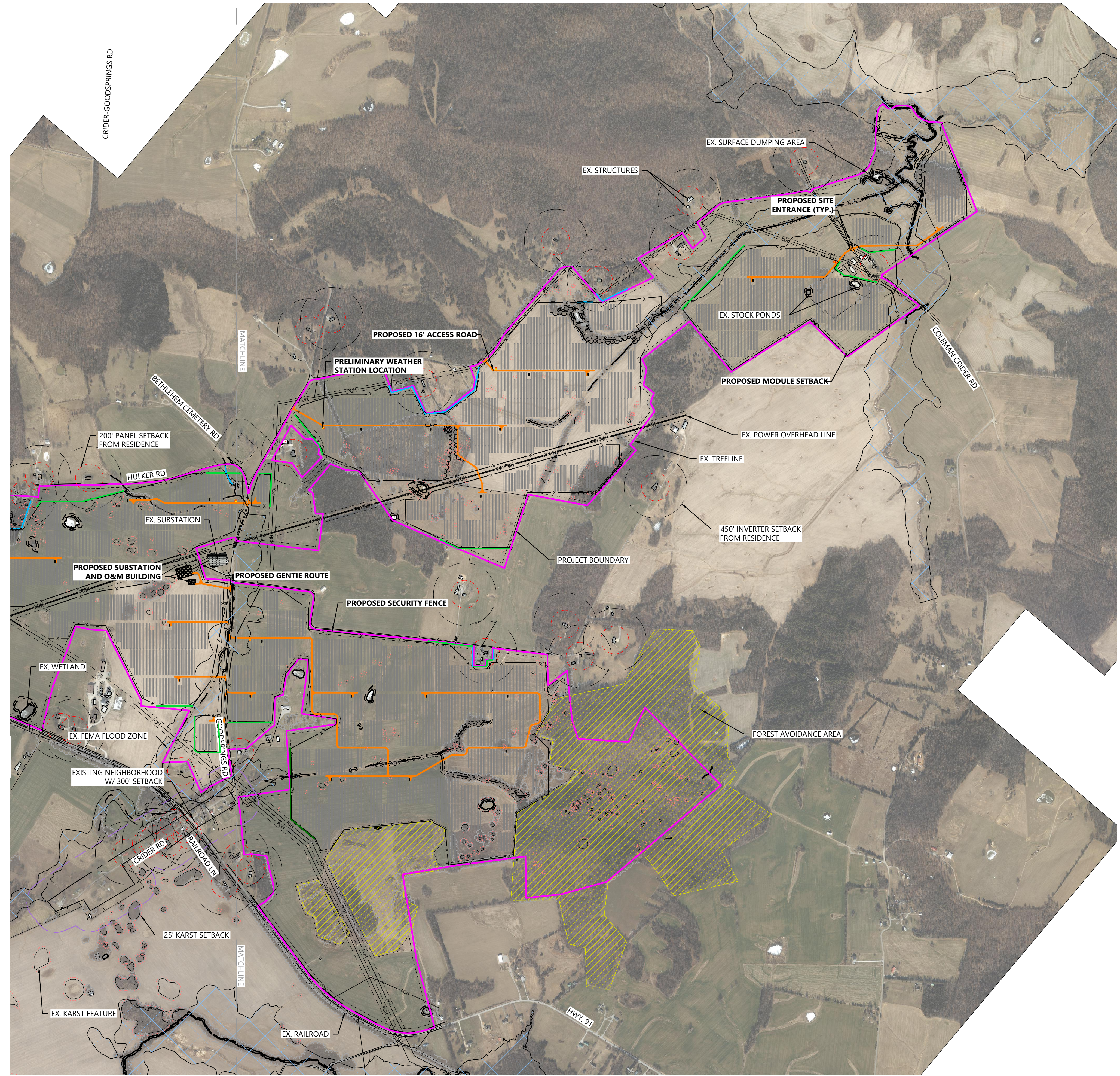
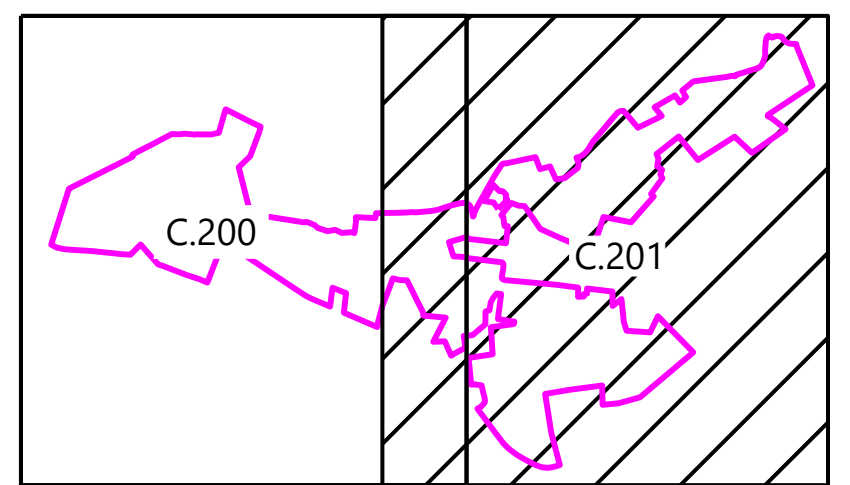
LEGEND:

- PROJECT BOUNDARY
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NOTES:

1. FURTHER FIELD INVESTIGATION FOR POTENTIAL KARST LOCATIONS TO BE COMPLETED PRIOR TO CONSTRUCTION.
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KEYMAP:



Golden Solar Project

Caldwell County, Kentucky

Overall Site Plan - 2

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SHEET: C.201

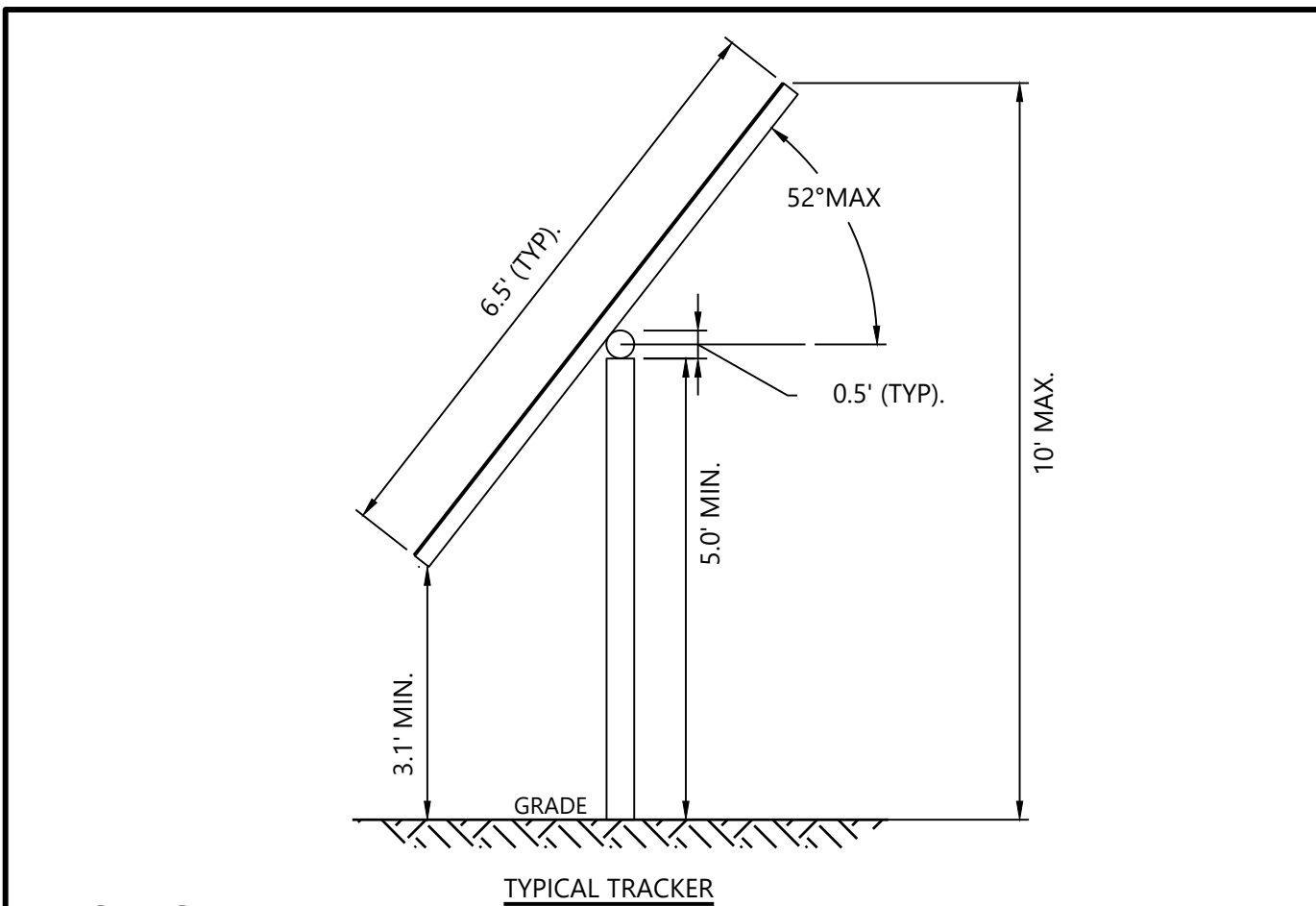
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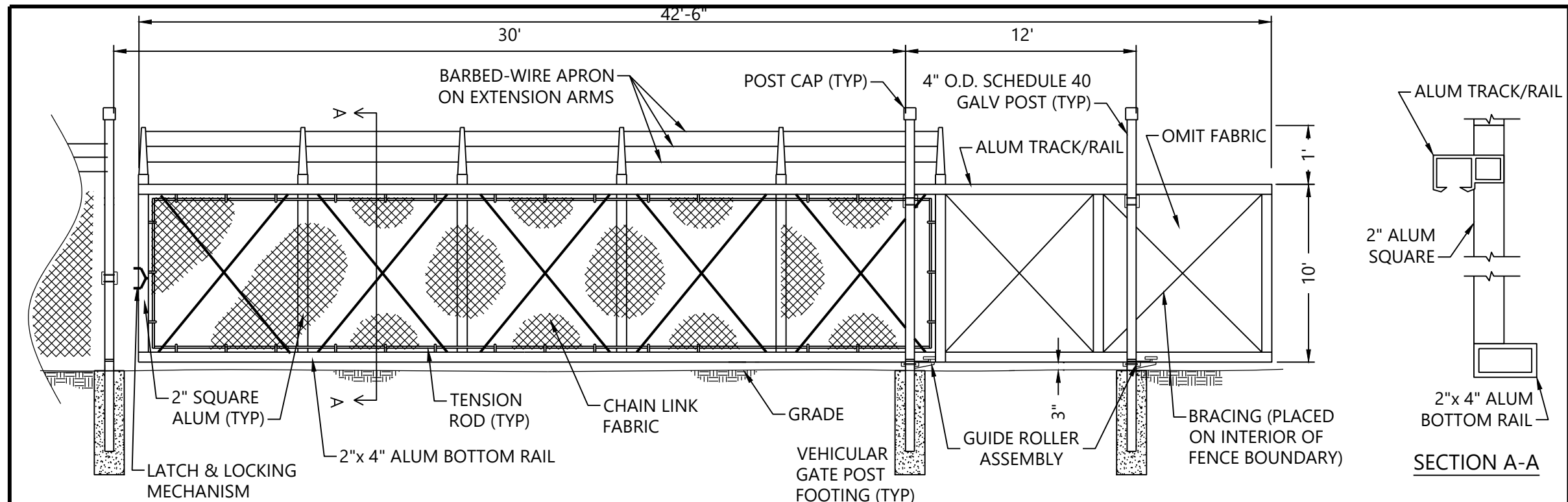
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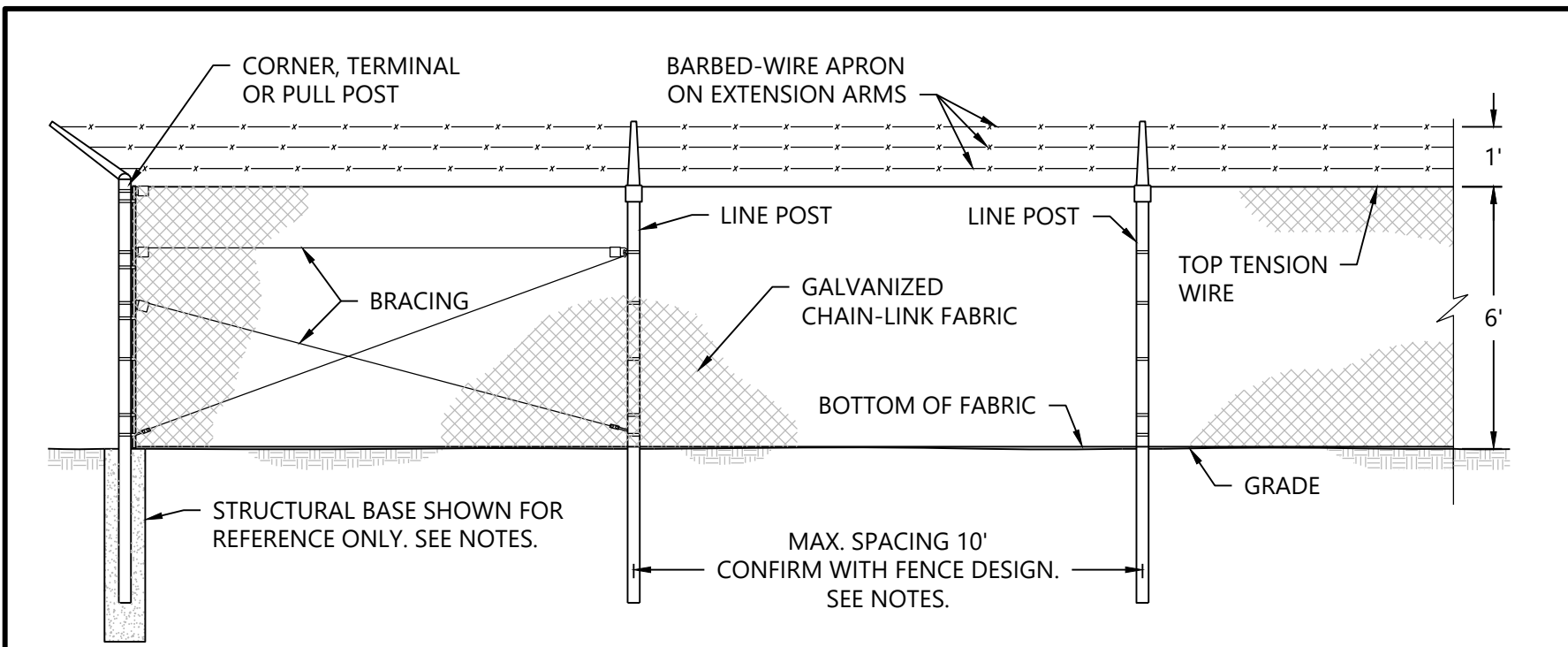
NOTES:
 1. ALL DIMENSION ARE APPROXIMATE AND SUBJECT TO CHANGE UPON FURTHER DESIGN.

Westwood TYPICAL SOLAR TRACKER PROFILE PR01



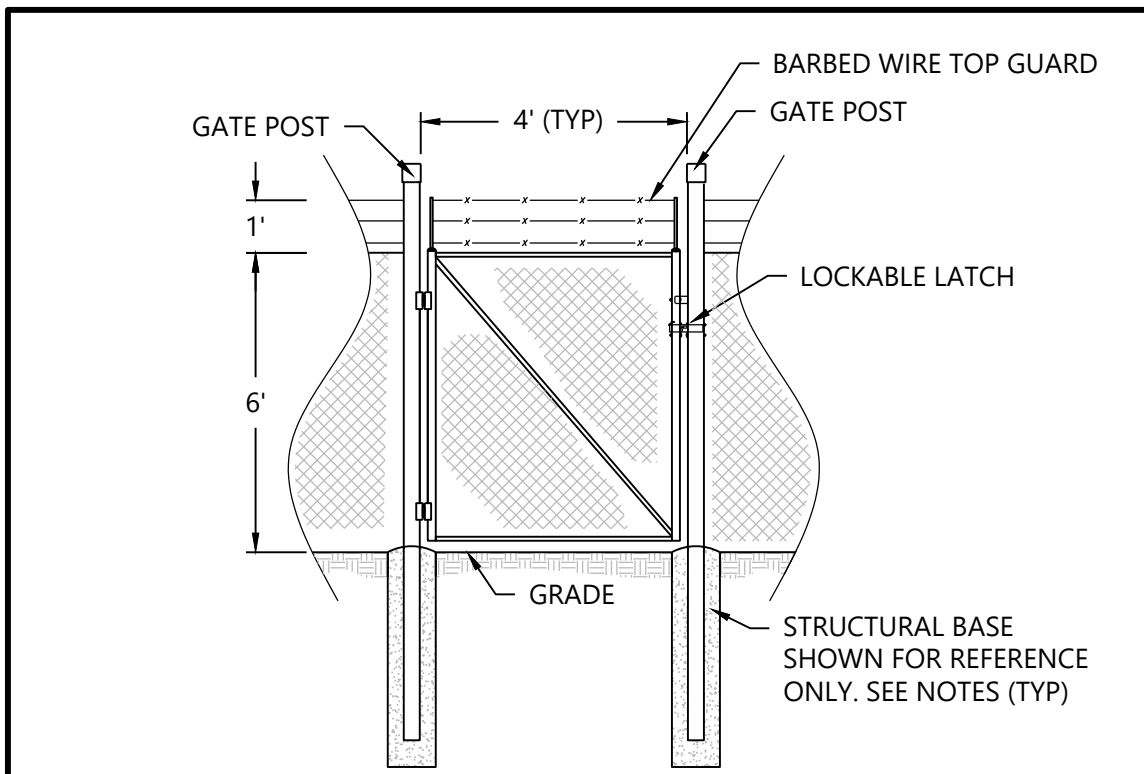
NOTES:
 1. DESIGN OF GATE AND STRUCTURAL DESIGN OF FOOTINGS TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION
 2. STRUCTURAL DESIGN FOR CONCRETE FOOTINGS TO BE PROVIDED BY FENCE SUPPLIER
 3. MOUNT KNOX BOX WITH GATE ACCESS KEYS ON CHAIN-LINK FENCE DIRECTLY ADJACENT TO GATE, MOUNTED AT 4 FT HEIGHT FOR FIRE DEPARTMENT ACCESS.
 4. REFER TO ELECTRICAL PLANS FOR GROUNDING DETAILS.

Westwood CHAIN-LINK CANTILEVERED SECURITY MANUAL SLIDING GATE (NOT TO SCALE) 06



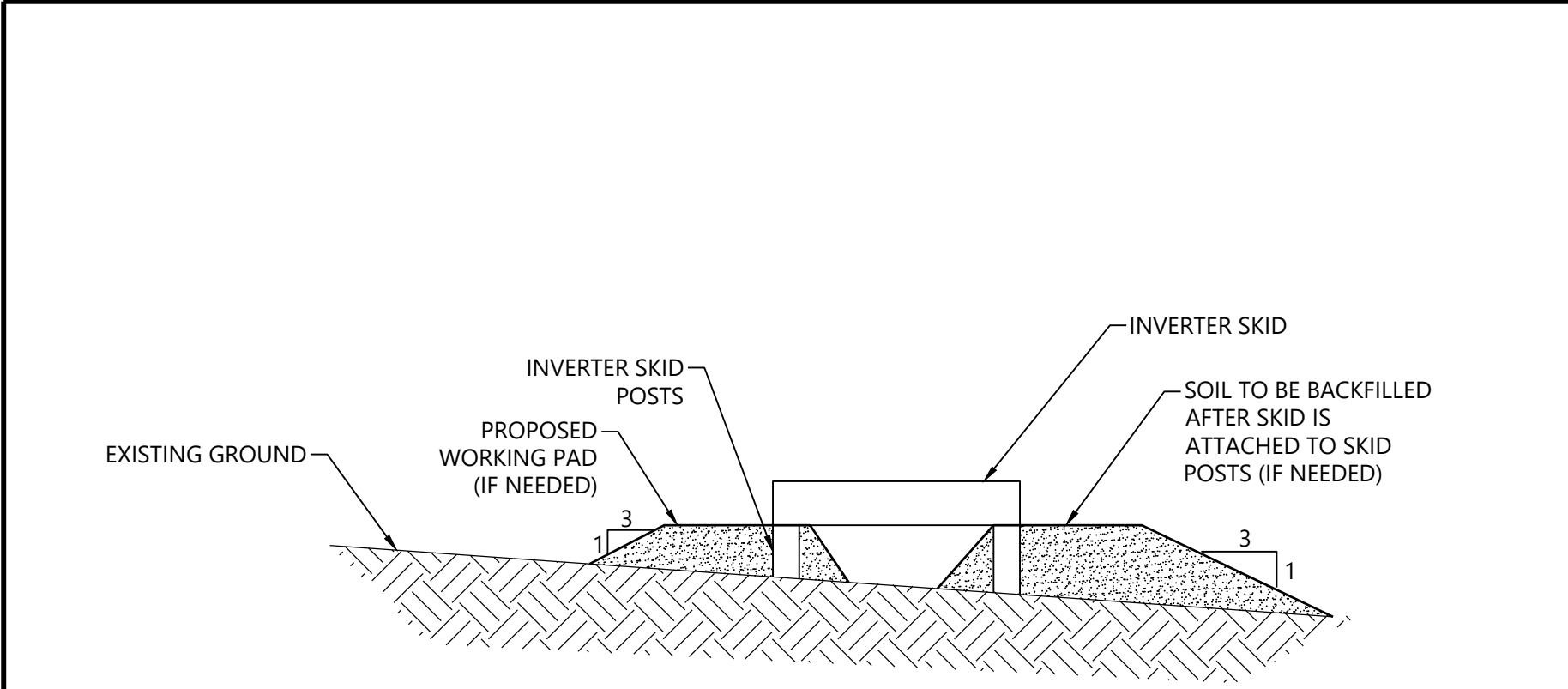
NOTES:
 1. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
 2. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
 3. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER.
 4. STRUCTURAL PLANS AND FENCE SUPPLIER DRAWINGS SHALL SUPERSEDE THIS DETAIL IF CONFLICTS ARE PRESENT.
 5. FENCE AND GATE TYPE TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION.

Westwood CHAIN-LINK SECURITY FENCE (NOT TO SCALE) FN-01



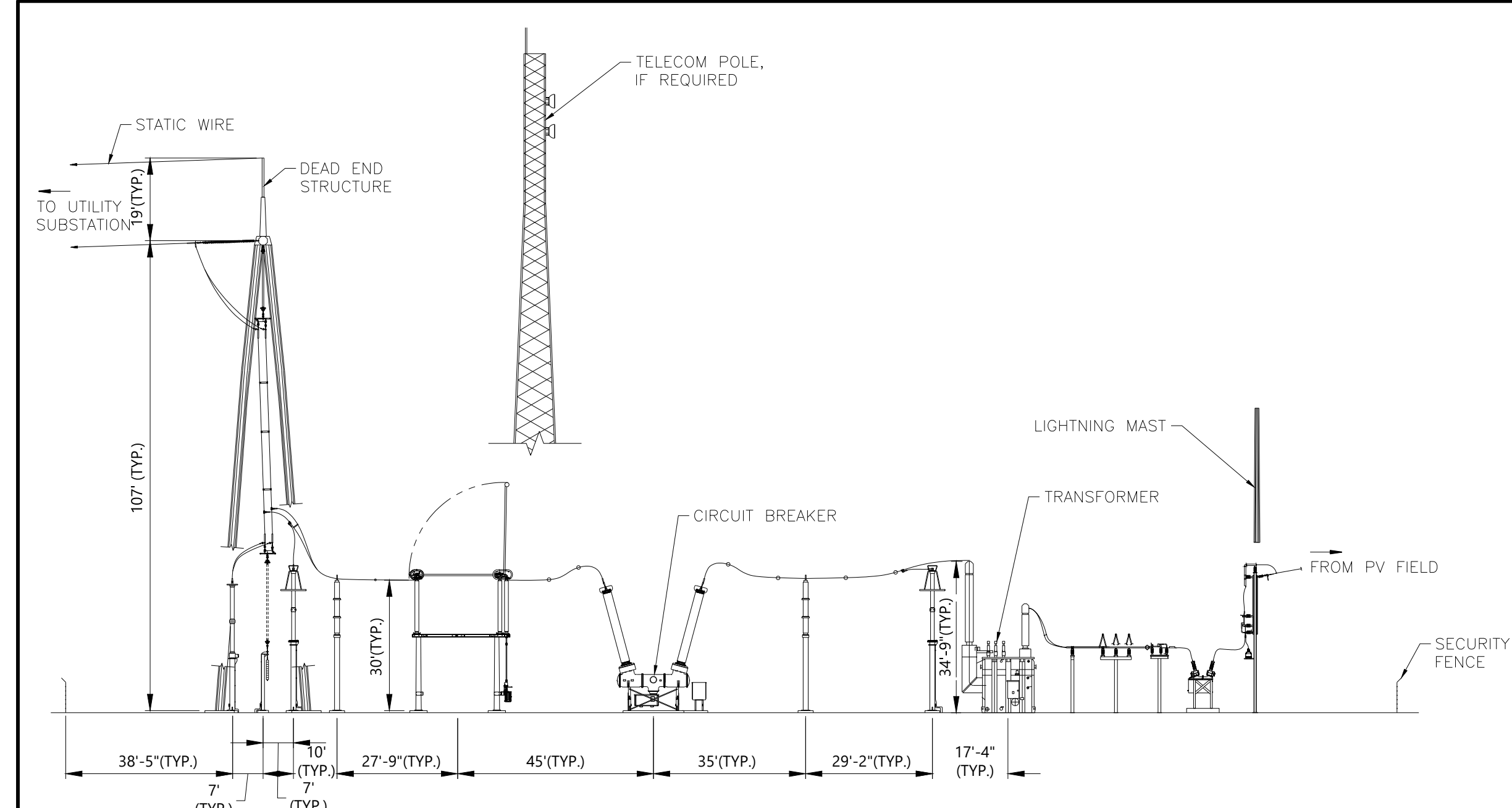
NOTES:
 1. SEE NOTES ON DETAIL FN-01.

Westwood CHAIN-LINK SECURITY PERSONNEL GATE (NOT TO SCALE) FN-03



NOTES:
 1. SOIL SHALL BE BACKFILLED AROUND INVERTER PAD IF A WORKING SURFACE IS NEEDED FOR ELECTRICAL EQUIPMENT HEIGHT REQUIREMENTS

Westwood TYPICAL SOLAR INVERTER ON DRIVEN PILES INV01



Westwood TYPICAL SUBSTATION PROFILE (NOT TO SCALE) PR02

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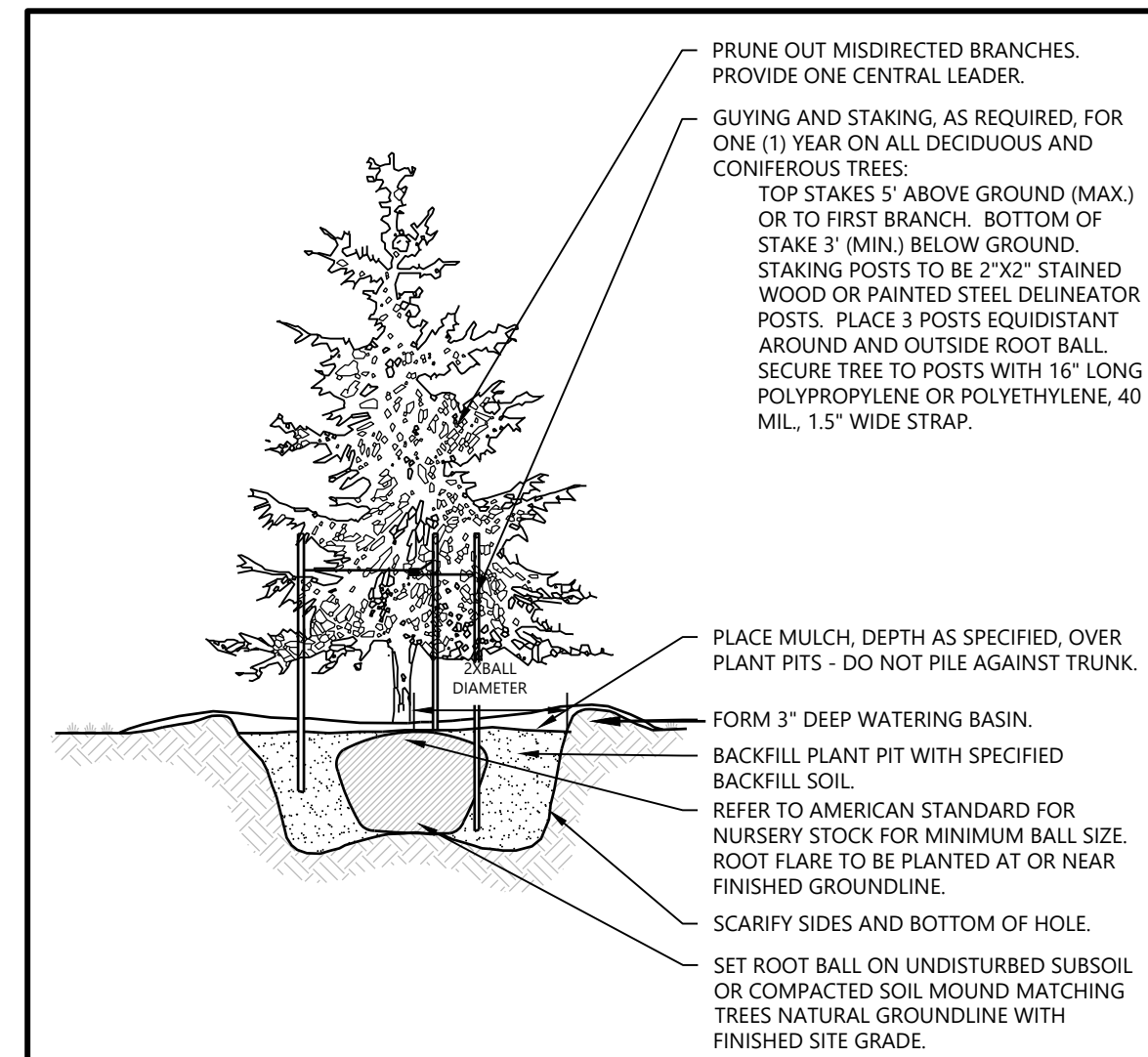
Construction Details - 1

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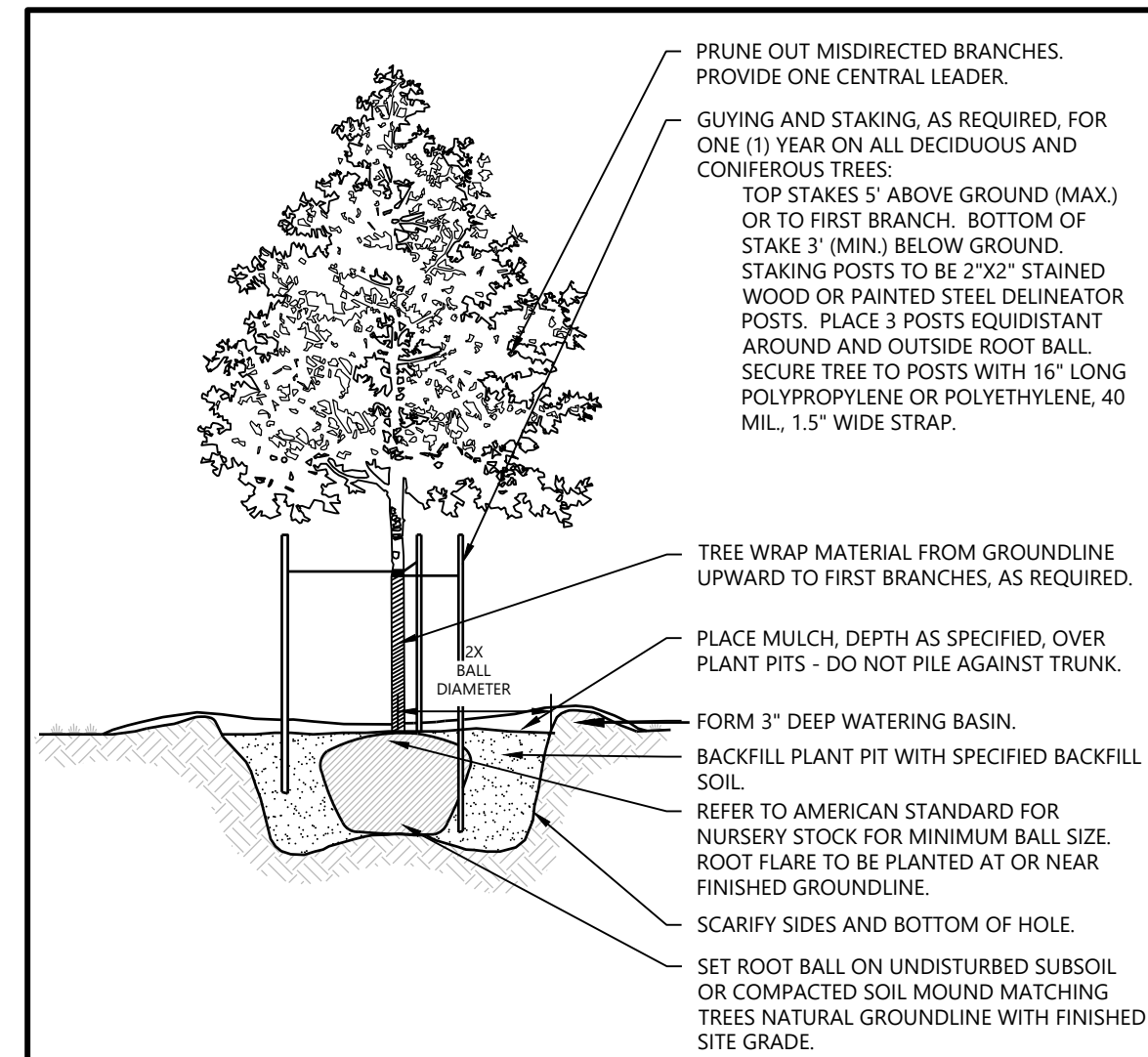
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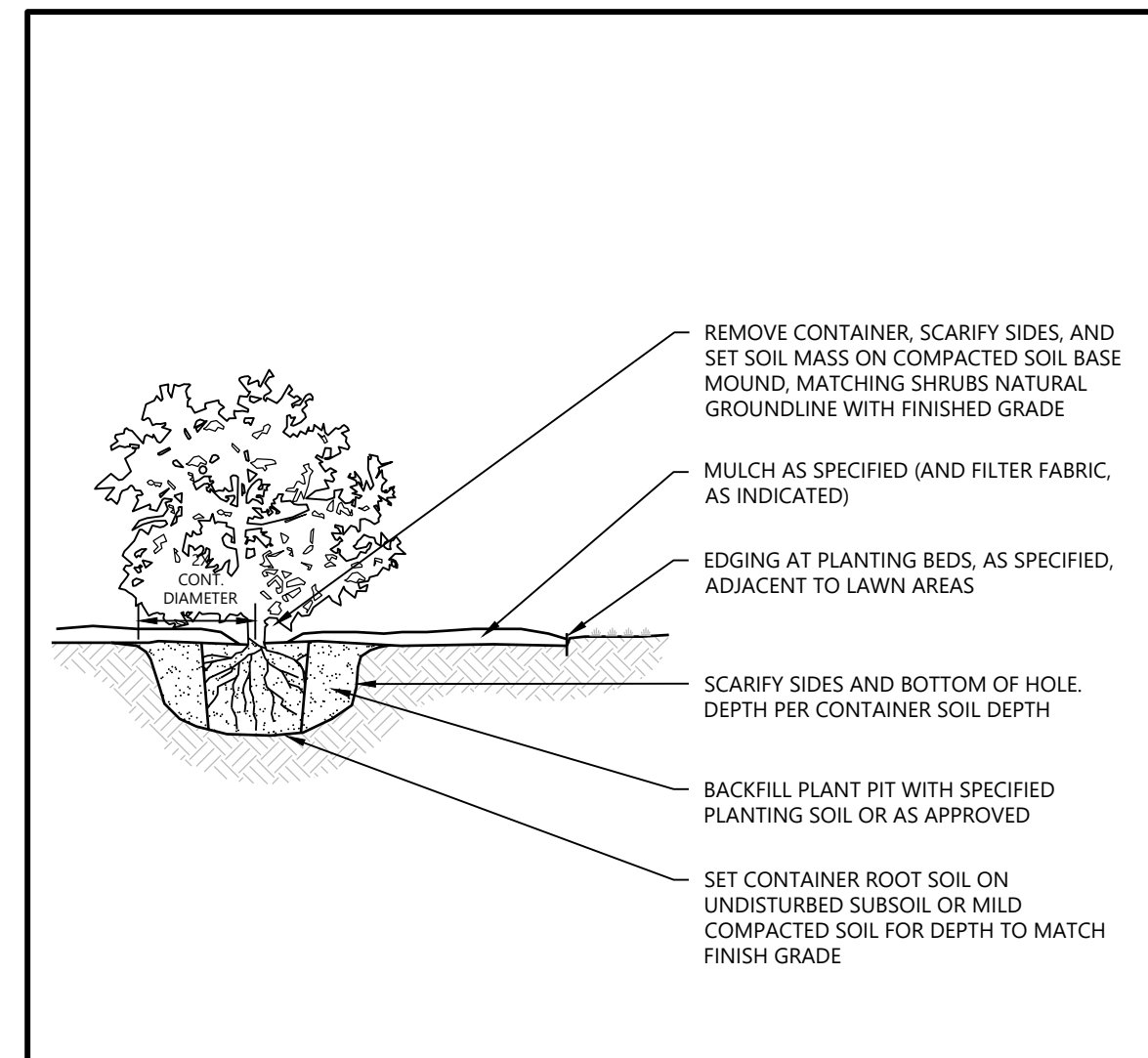
PLANTING DETAILS



Westwood EVERGREEN TREE PLANTING LA01
NOT TO SCALE



Westwood DECIDUOUS TREE PLANTING LA02
NOT TO SCALE



Westwood SHRUB & PERENNIAL CONTAINER PLANTING LA03
NOT TO SCALE

PRELIMINARY BUFFER & SCREENING PLANT SPECIES LIST

SYMBOL	COMMON/BOTANICAL NAME	SIZE (AT INSTALLATION)	SPACING O.C.	MATURE SIZE
EVERGREEN TREES (MEV)	Virginia Pine / <i>Pinus virginiana</i>	3' H.T., BB	15' O.C.	H 20'-60' W 10'-30'
	Eastern Red Cedar / <i>Juniperus virginiana</i>	3' H.T., BB	15' O.C.	H 30'-60' W 8'-25'
	American Holly / <i>Ilex opaca</i>	3' H.T., BB	15' O.C.	H 15'-30' W 10'-20'
DECIDUOUS TREES (DEC)	Shadblow Serviceberry / <i>Amalanchier canadensis</i>	3' H.T., BB, CLUMP	100' O.C.	H 20' W 20'
	Eastern Redbud / <i>Cercis canadensis</i>	3' H.T., BB, CLUMP	100' O.C.	H 20'-30' W 25'-35'
	Flowering Dogwood / <i>Cornus florida</i>	3' H.T., BB, CLUMP	100' O.C.	H 20' W 25'-35'
DECIDUOUS SHRUBS (SHB)	Winter Red Winterberry / <i>Ilex verticillata</i>	#5 CONT.	10' O.C.	H 6'-8' W 6'-8'
	Schipka Laurel / <i>Prunus laurocerasus</i> 'Schipkadensis'	#5 CONT.	10' O.C.	H 10'-18' W 5'-7'
	Prague Viburnum / <i>Viburnum x pragensis</i>	#5 CONT.	10' O.C.	H 8'-12' W 8'-12'

- NOTES:
1. QUANTITIES ON PLAN SUPERSEDE LIST QUANTITIES IN THE EVENT OF A DISCREPANCY.
 2. B.B. SPECIFIES ROOT TYPE AS BALLED AND BURLAPPED.
 3. H.T. SPECIFIES MINIMUM SPECIMEN HEIGHT UPON INSTALLATION.
 4. #5 CONT. TO MEET MINIMUM SIZE REQUIREMENT OF 24"H OR 30"W FOR DECIDUOUS SHRUBS UPON INSTALLATION. IF PLANT SIZE UNAVAILABLE AT #5 CONT. UPSIZE CONTAINER UNTIL MINIMUM PLANT SIZE REQUIREMENT IS MET.
 5. PLANT SPECIES SUBJECT TO CHANGE BASED UPON AVAILABILITY AT TIME OF PLANTING

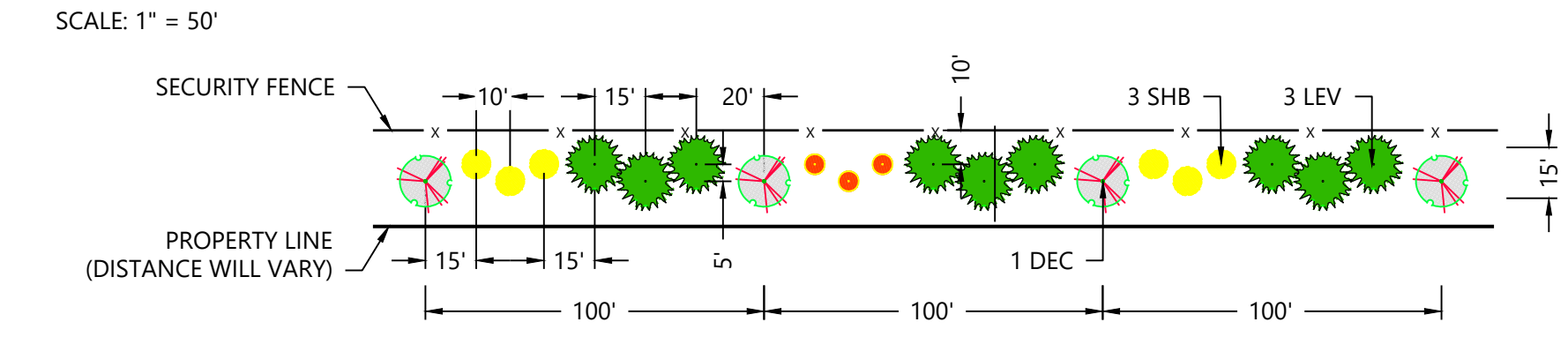
PRELIMINARY BUFFER & SCREENING PLANT MATERIAL



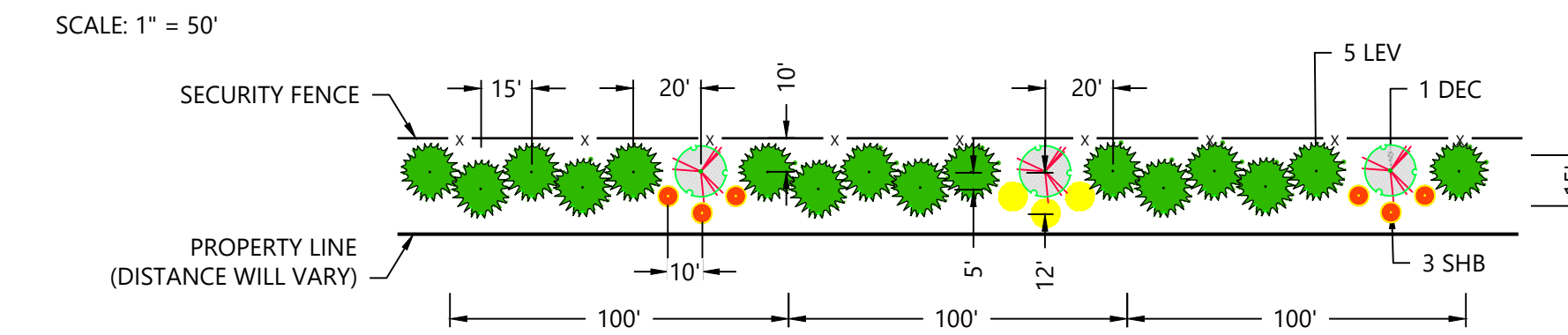
VEGETATIVE SCREENING SELECTION & INTENT

THE PROPOSED PLANS INCLUDE INSTALLING VEGETATIVE LANDSCAPE BUFFERS WHICH UTILIZE, TO THE EXTENT COMMERCIALY PRACTICABLE, NATIVE TREES AND SHRUBS OR OTHER SPECIES THAT GROW WELL IN THIS CLIMATE AT STRATEGIC LOCATIONS ACROSS THE PROJECT SITE TO LIMIT DIRECT VIEWS OF THE ARRAY. ONE BENEFIT TO USING NATIVE PLANTS OR OTHER REGIONALLY APPROPRIATE SPECIES IS THAT THEY ARE ACCLIMATED TO THE PARTICULAR CLIMATE AND ENVIRONMENTAL CONDITIONS, THUS ALLOWING FOR A QUICKER ESTABLISHMENT AND INCREASED SURVIVAL RATES. THE PROPOSED VEGETATIVE LANDSCAPE BUFFERS ARE COMPOSED OF EVERGREEN TREES THAT CAN PROVIDE LUSH GREEN YEAR ROUND SCREENING AND DECIDUOUS SHRUBS THAT CAN HELP PROVIDE ADDITIONAL SCREENING AND BE VISUALLY APPEALING ACROSS MULTIPLE SEASONS. SOME OF THE CHARACTERISTICS THAT THESE NATIVE SHRUBS HAVE BEEN SELECTED FOR INCLUDE FOLIAGE AND STEM COLOR, FLOWERS AND FRUIT PRODUCTION. THE SHRUBS PROPOSED TO BE PLANTED IN SMALL MASSES SO THAT AT ANY ONE TIME IN THE YEAR ONE SPECIES MIGHT DISPLAY SOME OF THESE AESTHETIC CHARACTERISTICS. BEYOND THE AESTHETIC VALUE, THE PROPOSED PLANTS CAN PROVIDE ADDITIONAL WILDLIFE BENEFITS THAT INCLUDE A SOURCE FOR POLLINATORS, SHELTER, FORAGE AND WINTER HABITAT. AS THE PLANTS MATURE THEY WILL GROW CLOSER TOGETHER CREATING A TYPE OF NATURAL HEDGE.

LANDSCAPE BUFFER TYPE 1:



LANDSCAPE BUFFER TYPE 2:



PLANTING NOTES

1. CONTRACTOR SHALL CONTACT KENTUCKY "ONE CALL" 811 OR 1-800-752-6007 TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE ONE YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, KENTUCKY-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER KNLA & ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY OWNER FOR THE NEED OF ANY SOIL AMENDMENTS.
14. BACKFILL SOIL AND TOPSOIL TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.
15. PROVIDE MULCH FOR ALL TREE AND SHRUB PLANTINGS PER DETAIL. MULCH TO BE SHREDDED HARDWOOD AND FREE OF DELETERIOUS MATERIAL. MULCH 3" DIAMETER RING AROUND ALL TREES AND SHRUBS TO A DEPTH OF 4". KEEP MULCH OFF TRUNK.
16. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.

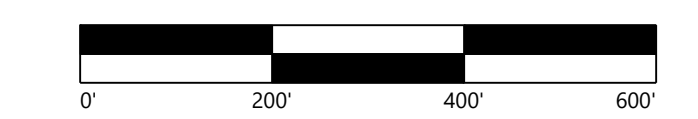
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