

COUNTY OF MARIN DEPARTMENT OF PUBLIC WORKS

PLANS FOR CONSTRUCTION OF

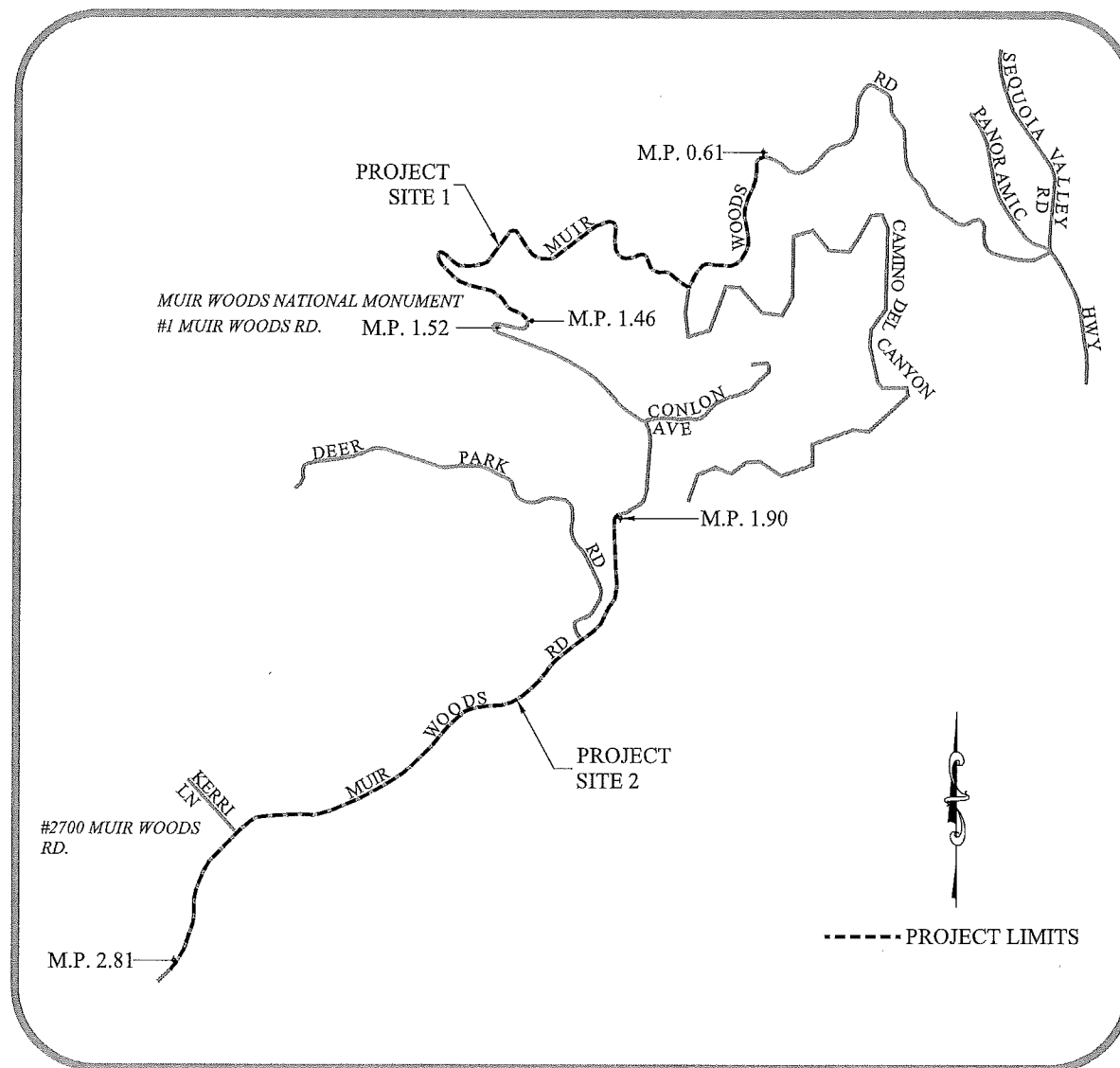
MUIR WOODS ROAD PARKING RESTRICTION IMPROVEMENTS PHASE 1 M.P. 0.61 TO M.P. 2.81

COUNTY PROJECT NUMBER 2015-20

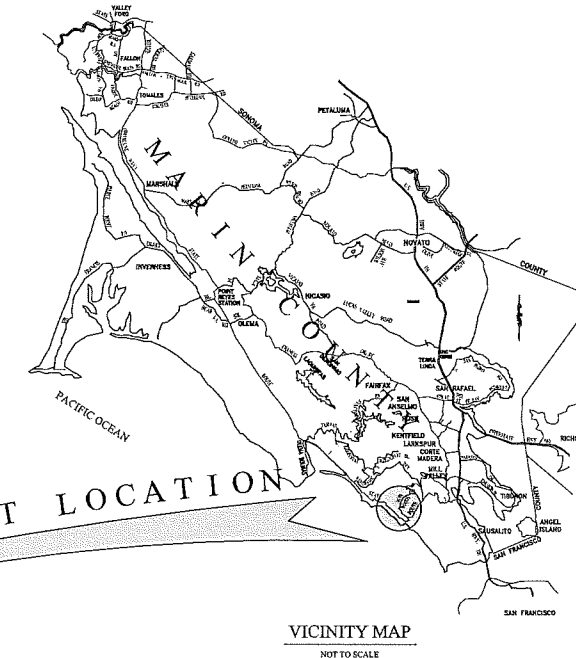
GENERAL NOTES

1. ALL WORK SHOWN ON THESE PLANS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITIES OF MARIN AND COUNTY OF MARIN DATED MAY, 2008, THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES OF MARIN AND THE COUNTY OF MARIN DATED MAY, 2008, THE STATE STANDARD PLANS DATED MAY, 2010, AND THE STATE STANDARD SPECIFICATIONS DATED MAY, 2010, (INSOFAR AS THE SAME MAY APPLY) AS MODIFIED BY THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE LOCATION FOR UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH. THIS VERIFICATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY. CALL U.S.A. (UNDERGROUND SERVICE ALERT) FOR UTILITY LOCATION QUESTIONS AT LEAST 24 HOURS BEFORE DIGGING. PHONE 1-800-642-2444.
3. WHERE PARKING IS PERMITTED, THE CONTRACTOR SHALL POST "NO PARKING" SIGNS ON EACH PAVEMENT REHABILITATION STREET AND/OR WORK AREA. THE POSTING SHALL BE VERIFIED BY THE ENGINEER OR THE SHERIFF'S DEPARTMENT 72 HOURS PRIOR TO COMMENCING EACH PHASE OF WORK, INCLUDING BUT NOT LIMITED TO, KEYCLIPPING, GRINDING, FABRIC PLACEMENT, ASPHALT CONCRETE PAVING, AND DEMOLITION WORK. SPECIFICATIONS FOR THESE SIGNS ARE PROVIDED IN THE SPECIAL PROVISIONS.

HOWEVER, IF THE INTENDED WORK DOES NOT COMMENCE WITHIN 24 HOURS OF THE SCHEDULED WORK, ALL "NO PARKING" SIGNS SHALL BE REMOVED FROM THE SITE OR AS DIRECTED BY THE ENGINEER.
4. A SAFE AND ACCESSIBLE PEDESTRIAN PATH-OF-TRAVEL SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION. PEDESTRIAN PATH-OF-TRAVEL SHALL BE PERFORMED IN ACCORDANCE WITH THE COUNTY'S ACCESS REGULATIONS, CALTRANS DOCS, FHWA ACCESS BOARD.
5. CONTRACTOR TO PROVIDE A 48 HOUR NOTICE TO PROPERTY OWNERS AND RESIDENTS PRIOR TO COMMENCING CONSTRUCTION WORK. NOTIFICATION TO BE BY LETTER AND SHALL BE APPROVED BY THE ENGINEER.
6. ALL TRAFFIC LAYOUT WORK SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION OF FINAL STRIPING AND PAVEMENT MARKINGS.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE SCHEDULE FOR FINAL STRIPING AND PAVEMENT MARKINGS 24 HOURS IN ADVANCE OF COMMENCING WORK.
8. TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST "MANUAL ON UNIFORM TRAFFIC CONTROL" (MUTCD) PUBLISHED BY CALTRANS.



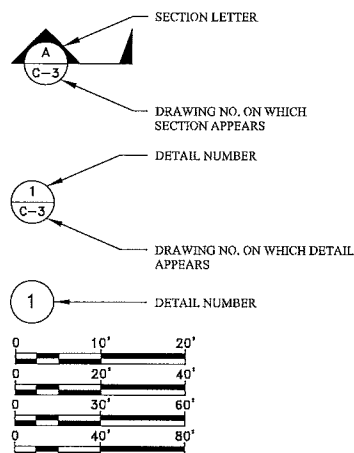
PROJECT LOCATION
NTS



VICINITY MAP
NOT TO SCALE

INDEX OF SHEETS

MUIR WOODS ROAD	
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CALL USA (UNDERGROUND SERVICE ALERT)
AT LEAST 24HRS IN ADVANCE
OF WORK - 1-(800)-642-2444

NOTE: THE CONTRACTOR SHALL POSSESS CLASS "A" LICENSE

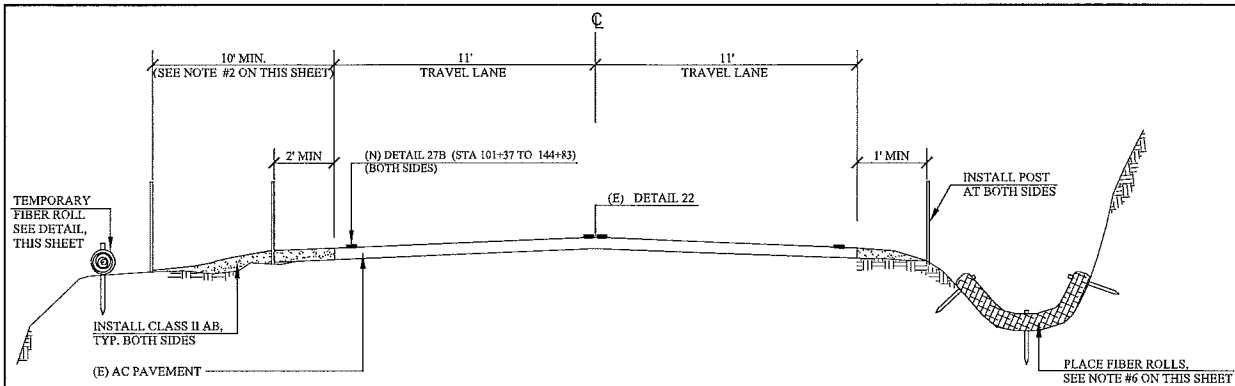
APPROVED
DIRECTOR OF PUBLIC WORKS

DATE



SHT. 1 OF 7
COUNTY PLAN NO.

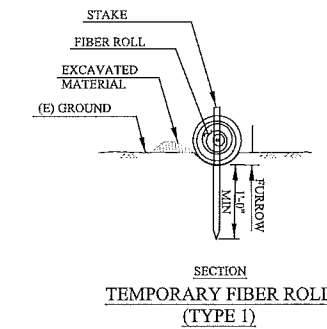
2015-20



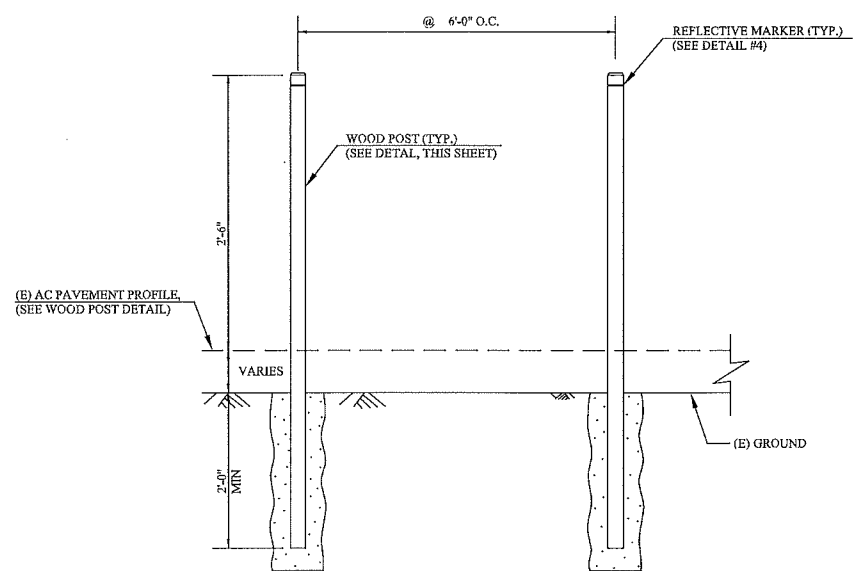
1
2

MUIR WOODS ROAD,
M.P 0.61 TO M.P 1.46 AND M.P 1.90 TO M.P 2.81
NTS

- NOTES:**
- DISTANCE OFFSETS FOR ALL POSTS SHALL BE MEASURED FROM THE EXISTING EDGE OF PAVEMENT.
 - WHERE EXISTING SHOULDERS ARE AT LEAST 8' WIDE, THE POST SYSTEM SHALL BE INSTALLED WITH AN OFFSET OF 10' TO ALLOW FOR PARALLEL STREET PARKING. LENGTH AND TRANSITION LIMITS TO BE FIELD MARKED BY THE ENGINEER. POST SPACING SHALL REMAIN THE SAME AT 6' ON CENTER.
 - ALL DIRT MATERIALS GENERATED FROM DIGGING POST HOLES SHALL BE USED TO FILL THE LOW AREAS OF THE WIDE SHOULDER SECTIONS AS DIRECTED BY THE ENGINEER. THE FILL SHALL BE SPREAD UNIFORMLY AND COMPACTED TO 95% PRIOR TO THE PLACEMENT OF CLASS 2 AB SHOULDER BACKING WORK.
 - CLASS 2 AB SHOULDER BACKING SHALL BE PLACED BOTH SIDES OF THE ROAD SHOULDERS WHERE THE EDGE OF PAVEMENT DROPS OFF BY 2 INCHES OR MORE. CLASS 2 AB SHALL BE SPREAD WITHIN THE LIMITS MARKED IN THE FIELD AND COMPACTED AT LEAST 95%.
 - ALL TRAFFIC PAINT STRIPING SHALL BE APPLIED IN 2-COATS.
 - INSTALL 5' FIBER ROLL AT EACH SIDE OF AN EXISTING CULVERT CROSSING INLET. EACH FIBER ROLL OR STRAW WATTLE SHALL BE SET BACK AT LEAST 5' OR VARIES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

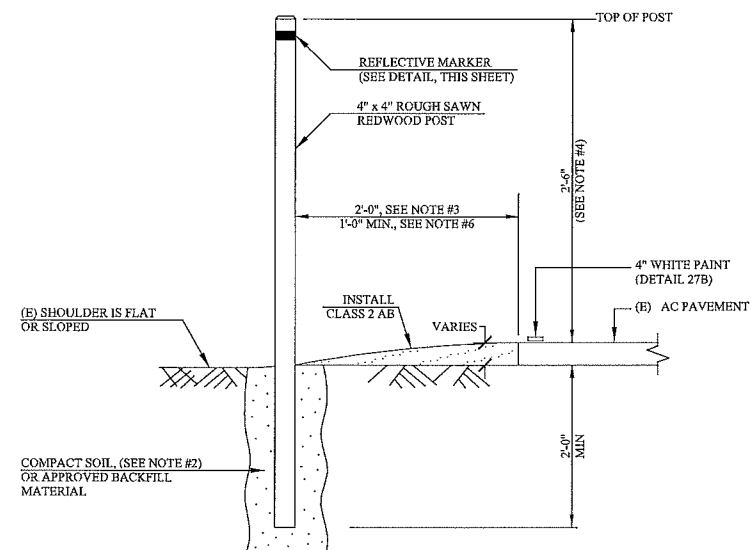


- FIBER ROLL SHALL BE MINIMUM 12" DIAMETER AND MUST BE 100% BIODEGRADABLE, NO PLASTIC NETTING
- EACH FIBER ROLL SHALL OVERLAP AT 1'-6" MINIMUM
- STAKING SHALL BE INSTALLED AT 5'-0" INTERVALS



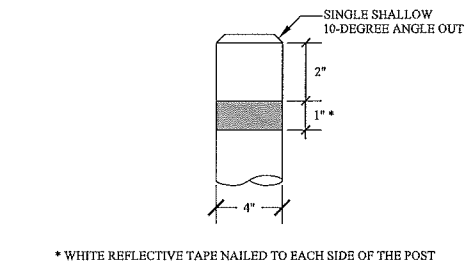
2
2

POST BARRIER SYSTEM
NTS



3
2

WOOD POST
NTS



* WHITE REFLECTIVE TAPE NAILED TO EACH SIDE OF THE POST

4
2

REFLECTIVE MARKER
NTS

NOTES FOR POST BARRIER SYSTEM:

- DIMENSIONS SHOWN FOR WOOD POST ARE NOMINAL.
- POSTS TO BE VERTICAL WITH 2'-0" MINIMUM EMBEDMENT IN COMPACTED SOIL. HOLE EXCAVATION SHALL BE BACKFILLED WITH SELECT NATIVE SOIL PLACED IN LAYERS OF APPROXIMATELY 1'-0" THICK. EACH LAYER SHALL BE MOISTENED AND THOROUGHLY COMPACTED.
- POSTS SHALL BE PLACED IN THE ROAD SHOULDER 2'-0" BEHIND THE EDGE OF PAVEMENT BUT NO LESS THAN 1'0" IN NARROW SHOULDERS AS SHOWN ON THE APPROVED PLANS.
- HEIGHT OF POST SHALL BE NO LESS THAN 2'-6" FROM AC PAVEMENT SURFACE TO TOP OF POST. LONGER POSTS MAY BE REQUIRED IN DEPRESSED (LOW) AND/OR SLOPED SHOULDERS.
- POST TO BE SPACED EQUALLY, TYPICALLY 6'-0" SPACING. POST SPACING MAY BE REDUCED WHERE GAPS OR OPENINGS ARE REQUIRED TO ACCOMMODATE ACCESS TO DRAINAGE CROSSINGS, DRIVEWAYS AND TRAIL HEADS.
- HORIZONTAL ALIGNMENT OF POST BARRIER SYSTEM SHALL BE APPROVED BY THE ENGINEER. ALIGNMENT OF THE BARRIER SYSTEM SHALL PROVIDE A SPAN INTERVAL OF NO LESS THAN 10" OFFSET FROM THE EXISTING EDGE OF PAVEMENT. ADJUSTMENT TO THE BARRIER SYSTEM ALIGNMENT SHALL BE PERFORMED WITH THE ENGINEER.
- WHERE FLARES ARE INDICATED ON THE APPROVED PLANS, THE APPROACH END POST BARRIER SYSTEM SHALL BE OFFSET AT 12" MAXIMUM FOR 24'-0" LENGTH TAPER OR TERMINATED TO MATCH EXISTING ROADWAY FACILITIES (GUARDRAILS, BRIDGE RAILING, ETC.) AS DIRECTED BY THE ENGINEER.
- EACH POST SHALL HAVE A WHITE REFLECTIVE MARKER AS SHOWN ON THE APPROVED PLANS.

LEGEND	
SYMBOLS	
#500	HOUSE NUMBER
	EXISTING ROAD SIGN
	NEW ROAD SIGN
	MILEPOST MARKER
	MULCH
	EXISTING PULLOUT
	NMWD/MMWD WATER VALVE
	GAS VALVE
	UTILITY POLE
	FIRE HYDRANT
	WALL
	ELECTRIC LINE
	OVERHEAD UTILITY
	UNDERGROUND AT&T FACILITY
	FENCE
	EROSION CONTROL BLANKET
	FIBER ROLL
AC	ASPHALT CONCRETE
BMP	BEST MANAGEMENT PRACTICES
DIA.	DIAMETER
EP	EDGE OF PAVEMENT
EQ	EQUIVALENT
(E)	EXISTING
M.P.	MILE POST
MIN.	MINIMUM
PG&E	PACIFIC GAS & ELECTRIC
(N)	NEW
NTS	NOT TO SCALE
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
TYP.	TYPICAL
	SQUARE WOOD POSTS
	NORTH ARROW

No.	DATE	DESCRIPTION	BY:
7			
6			
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4			
3			
2			
1			

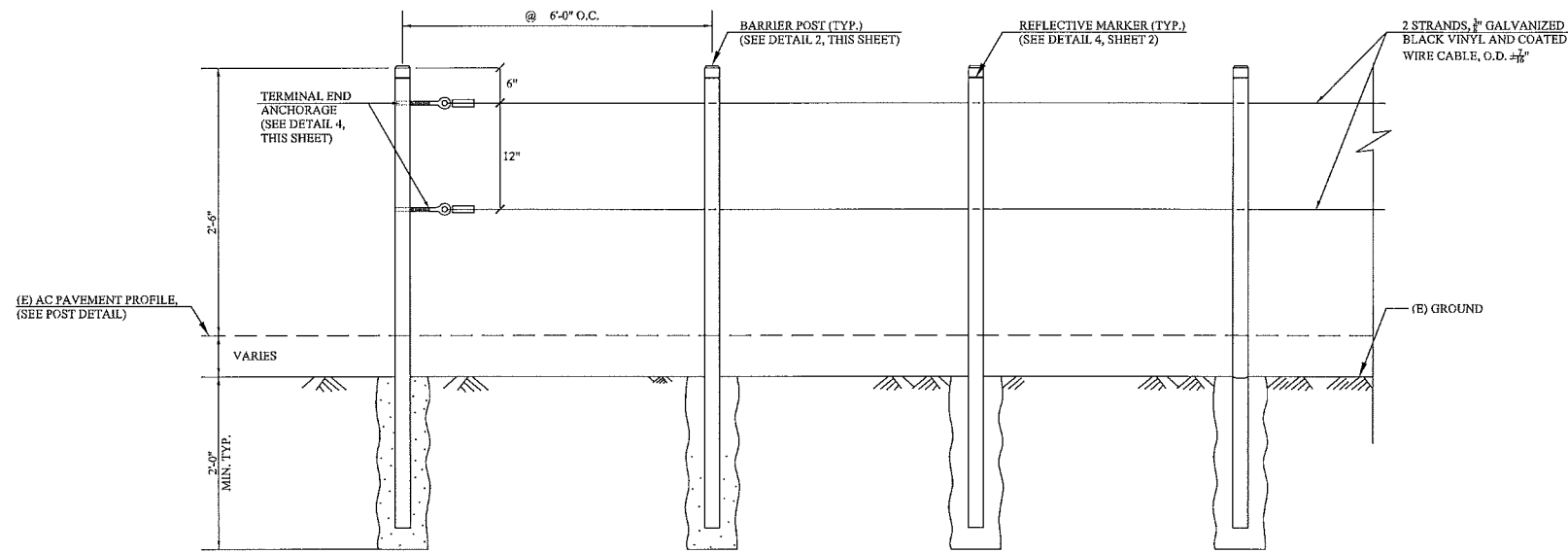
COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS
CIVIC CENTER SAN RAFAEL CALIFORNIA 94903

DESIGNED: MM	APPROVAL RECOMMENDED
DRAWN: RB	
CHECKED: EM	
DATE: 8/2015	PRINCIPAL ENGINEER, LICENSE NO. 62664 DATE
FEDERAL PROJ. NO.:	APPROVAL RECOMMENDED
REVISION DESCRIPTION:	
	ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 41042 DATE

LEGEND, BARRIER POST, & BMP DETAILS

MUIR WOODS ROAD
PARKING RESTRICTION IMPROVEMENTS PHASE 1
M.P 0.61 TO M.P 2.81

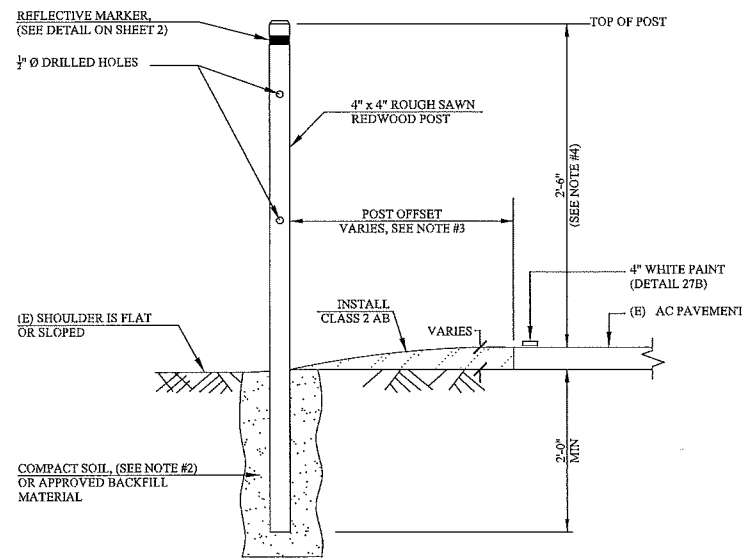
SHT. 2 OF 7
COUNTY PLAN NO.
2015-20



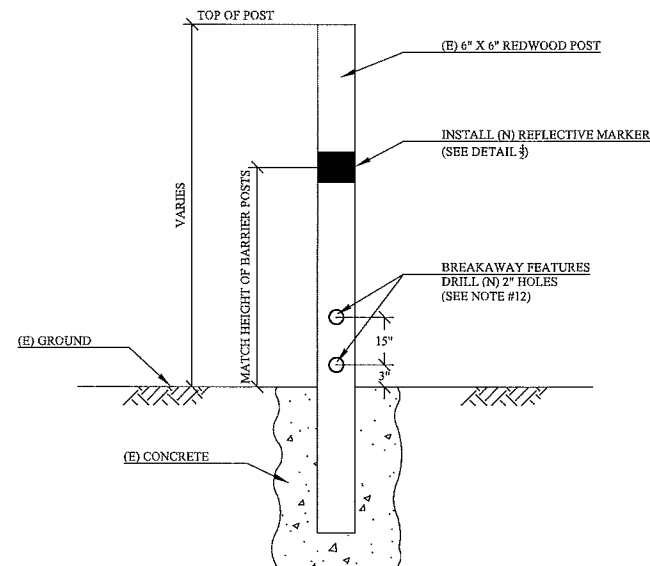
1 POST AND CABLE ASSEMBLY
NTS

NOTES:

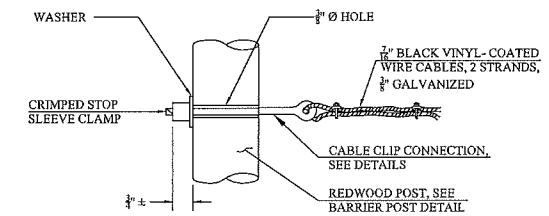
- DIMENSIONS SHOWN FOR WOOD POST AND CABLE ARE NOMINAL.
- POSTS TO BE VERTICAL WITH 2'-0" MINIMUM EMBEDMENT IN COMPACTED SOIL. HOLE EXCAVATION SHALL BE BACKFILLED WITH SELECT NATIVE SOIL PLACED IN LAYERS OF APPROXIMATELY 1'-0" THICK. EACH LAYER SHALL BE MOISTENED AND THOROUGHLY COMPACTED.
- POSTS SHALL BE PLACED IN THE ROAD SHOULDER BEHIND THE EDGE OF PAVEMENT AS SHOWN ON THE APPROVED PLANS OR AS DIRECTED BY THE ENGINEER.
- HEIGHT OF POST SHALL BE NO LESS THAN 2'-6" FROM AC PAVEMENT SURFACE TO TOP OF POST. LONGER POSTS MAY BE REQUIRED IN DEPRESSED (LOW) AND/OR SLOPED SHOULDERS.
- POST TO BE SPACED EQUALLY, TYPICALLY 6'-0" SPACING. POST SPACING MAY BE REDUCED WHERE GAPS OR OPENINGS ARE REQUIRED TO ACCOMMODATE ACCESS TO DRAINAGE CROSSINGS, DRIVEWAYS AND TRAIL HEADS.
- LINE POSTS SHALL BE BRACED HORIZONTALLY AT EACH TERMINAL END AT INTERVALS OF +250' TO 1050'. POST AND CABLE ASSEMBLY SHALL HAVE A MAXIMUM INTERVAL OF 1050'.
- ALL HOLES IN WOOD POSTS SHALL BE 1/2" DIAMETER +/- 1/16". ALIGNMENT OF HOLES IN POSTS MAY VARY TO CONFORM TO SLOPE OR FINISH GRADE OF THE EXISTING PAVEMENT.
- CABLE SHALL NOT BE SPLICED BETWEEN END POSTS.
- HORIZONTAL ALIGNMENT OF POST AND CABLE BARRIER SYSTEM SHALL BE APPROVED BY THE ENGINEER. ALIGNMENT OF THE BARRIER SYSTEM SHALL PROVIDE A SPAN INTERVAL OF NO LESS THAN 10" OFFSET FROM THE EXISTING EDGE OF PAVEMENT. ADJUSTMENT TO THE BARRIER SYSTEM ALIGNMENT SHALL BE PERFORMED WITH THE ENGINEER.
- WHERE FLARES ARE INDICATED ON THE APPROVED PLANS, THE APPROACH END POST AND CABLE BARRIER SYSTEM SHALL BE OFFSET AT 12" MINIMUM FOR 24'-0" LENGTH TAPER OR TERMINATED TO MATCH EXISTING ROADWAY FACILITIES (GUARDRAILS, BRIDGE RAILING, ETC.) AS DIRECTED BY THE ENGINEER.
- EACH POST SHALL HAVE A WHITE REFLECTIVE MARKER AS SHOWN ON THE APPROVED PLANS.
- BREAKAWAY FEATURES SHALL BE PROVIDED ON EACH POST AS DIRECTED BY THE ENGINEER. TOLERANCE FOR DIAMETER OF DRILLED HOLES IN BREAKAWAY FEATURE IS +/- 1/8".



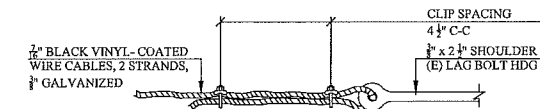
2 BARRIER POST
NTS



3 [E] GATE POST
NTS



DEAD END ANCHORAGE



"U" BOLTS OF CLIP ON SHORT END OF CABLE ONLY
"U" BOLTS TIGHTENED TO 50 FT/LB TORQUE

CABLE CLIP CONNECTION

4 TERMINAL END ANCHORAGE
NTS

No.	DATE	DESCRIPTION	BY:
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COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS
CIVIC CENTER SAN RAFAEL CALIFORNIA 94903

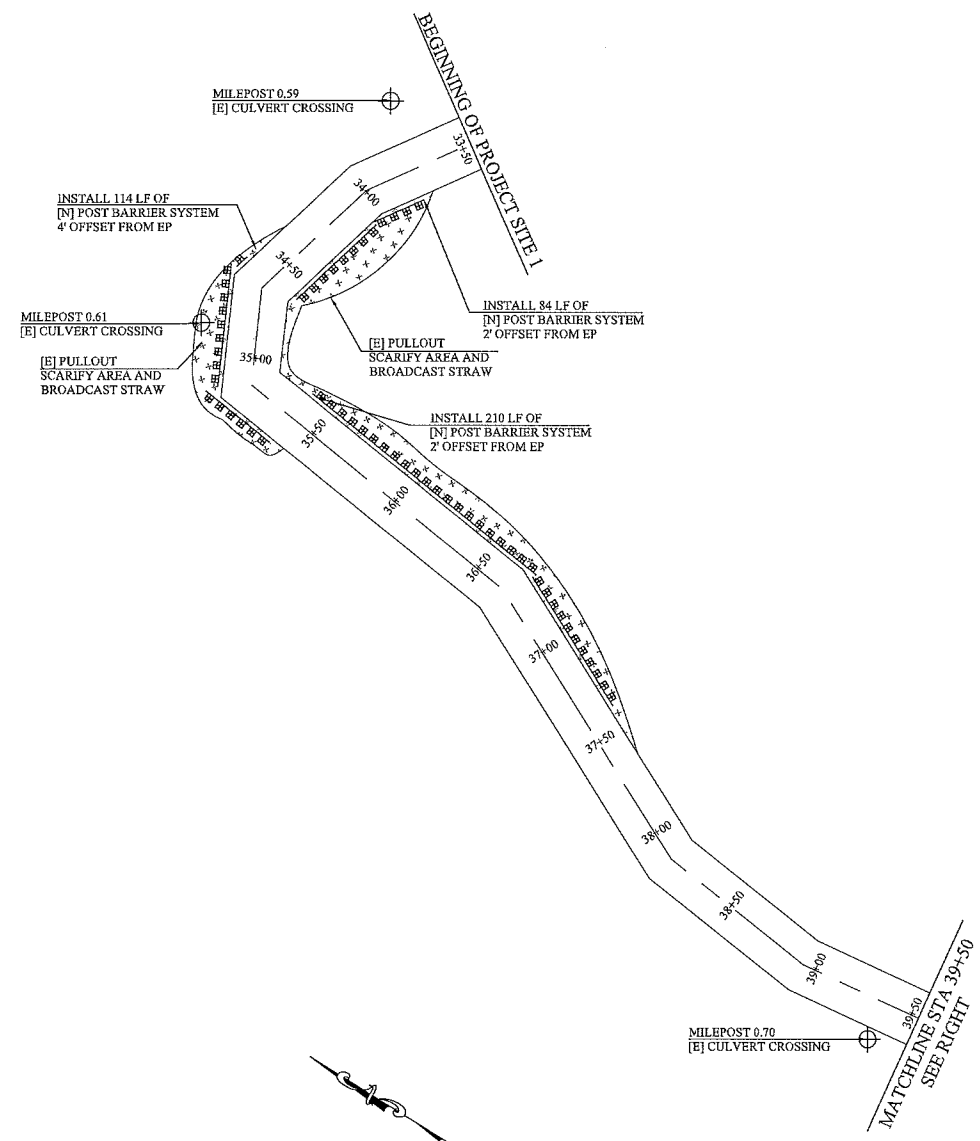
DESIGNED: MM	APPROVAL RECOMMENDED
DRAWN: RB	
CHECKED: EM	
DATE: 8/2015	PRINCIPAL ENGINEER, LICENSE NO. 62664 DATE
FEDERAL PROJ. NO.:	APPROVAL RECOMMENDED
BENCHMARK DESCRIPTION:	
	ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 43042 DATE

POST AND CABLE ASSEMBLY

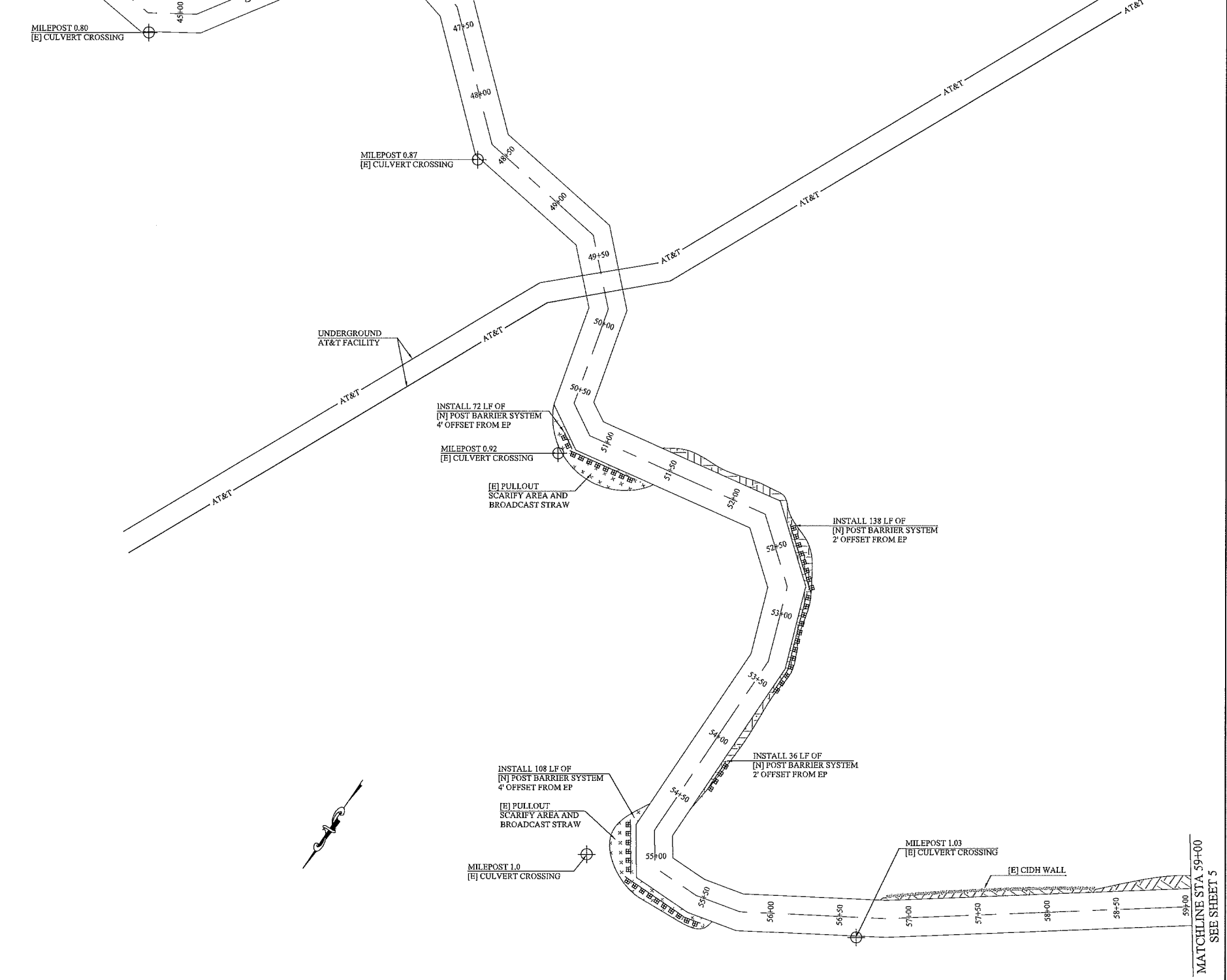
MUIR WOODS ROAD
PARKING RESTRICTION IMPROVEMENTS PHASE 1
M.P. 0.61 TO M.P. 2.81

SHT. 3 OF 7
COUNTY PLAN NO.
2015-20

1
4
MUIR WOODS RD., 33+50 TO 39+50
1"=40'



2
4
MUIR WOODS RD., 44+00 TO 59+00
1"=40'



No.	DATE	DESCRIPTION	BY:
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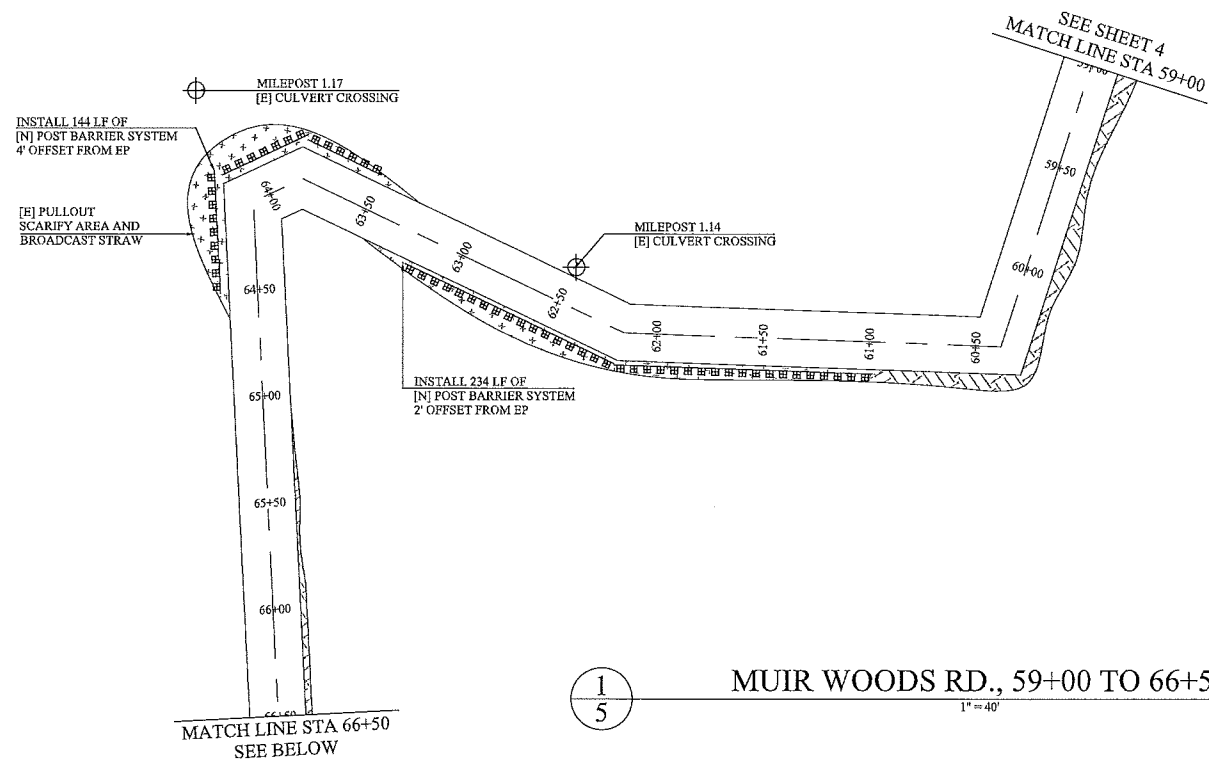
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LAYOUT PLAN
STA 33+50 TO 59+00
PROJECT SITE 1

MUIR WOODS ROAD
PARKING RESTRICTION IMPROVEMENTS PHASE 1
M.P. 0.61 TO 2.81

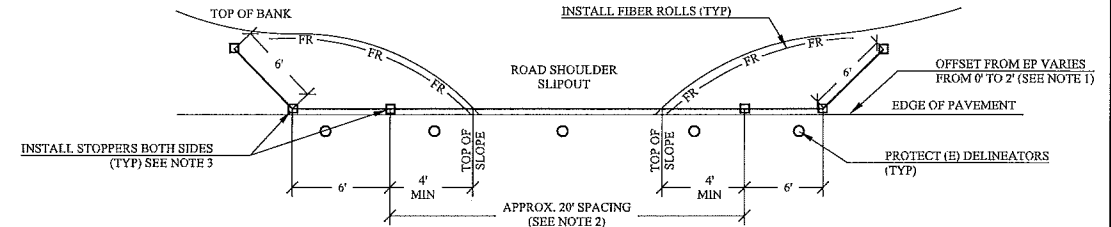
SHT. 4 OF 7
COUNTY PLAN NO.
2015-20



1
5

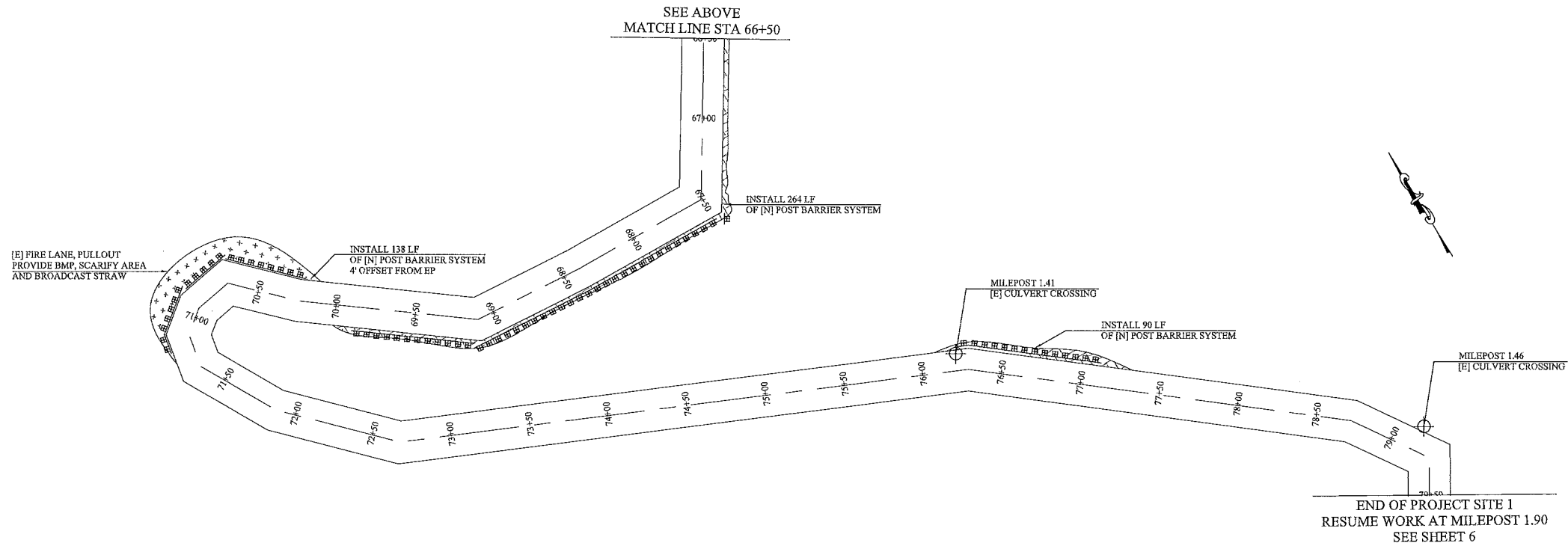
MUIR WOODS RD., 59+00 TO 66+50

1" = 40'



- NOTES:
- LAYOUT OF POST AND CABLE ASSEMBLY SHALL BE FIELD MARKED WITH THE ENGINEER
 - ALL SUPPORTING POSTS SHALL BE EMBEDDED DIRECTLY IN COMPACTED SOIL AT 4' MINIMUM.
 - PROVIDE STOPPERS EACH SIDE OF THE FIRST TWO POSTS NEXT TO THE SLIPOUT. STOPPERS SHALL BE GALVANIZED CABLE CLAMP ("U" BOLT ROD CLAMP OR APPROVED EQUAL) TIGHTENED TO 50 FT/LB TORQUE.
 - ALL POSTS SHALL BE 4" X 4" CONSTRUCTION HEART ROUGH SAWN REDWOOD.

3
5 POST AND CABLE AT SLIPOUT
NTS



2
5

MUIR WOODS RD., 66+50 TO 79+50

1" = 40'

No.	DATE	DESCRIPTION	BY:
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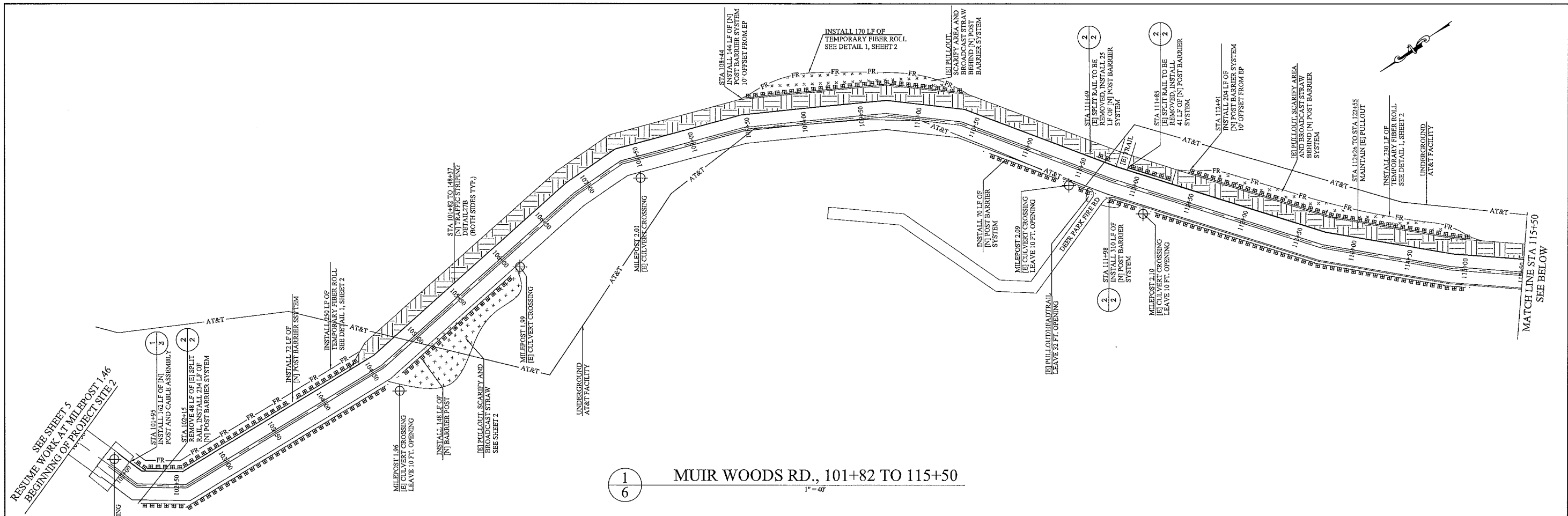
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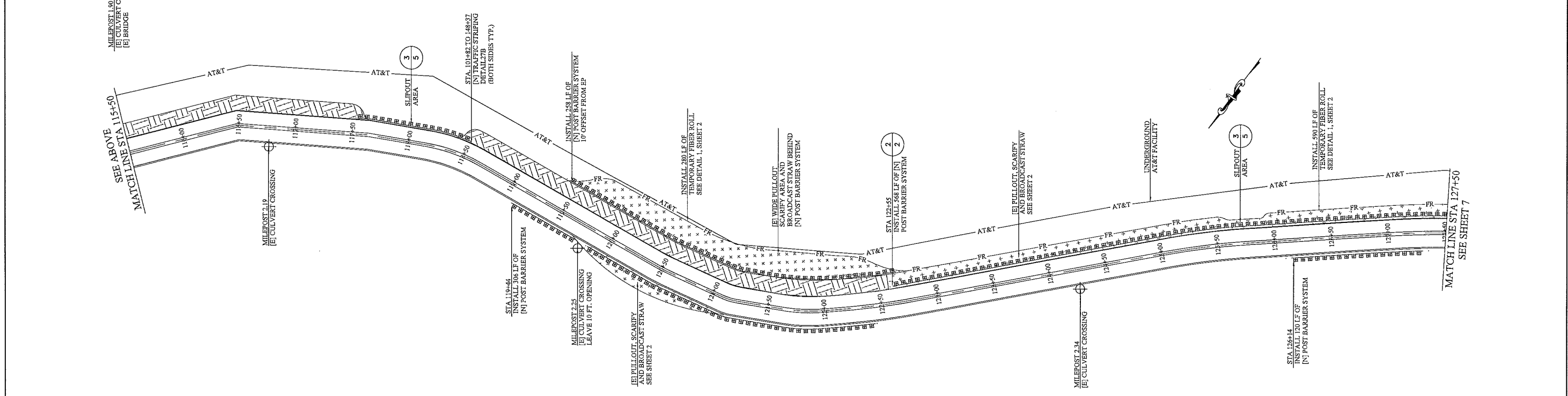
LAYOUT PLAN
STA 59+00 TO 79+50
PROJECT SITE 1

MUIR WOODS ROAD
PARKING RESTRICTION IMPROVEMENTS PHASE 1
M.P. 0.61 TO 2.81

SHT. 5 OF 7
COUNTY PLAN NO.
2015-20



1
6
MUIR WOODS RD., 101+82 TO 115+50
1" = 40'



2
6
MUIR WOODS RD., 115+50 TO 127+50
1" = 40'

No.	DATE	DESCRIPTION	BY:
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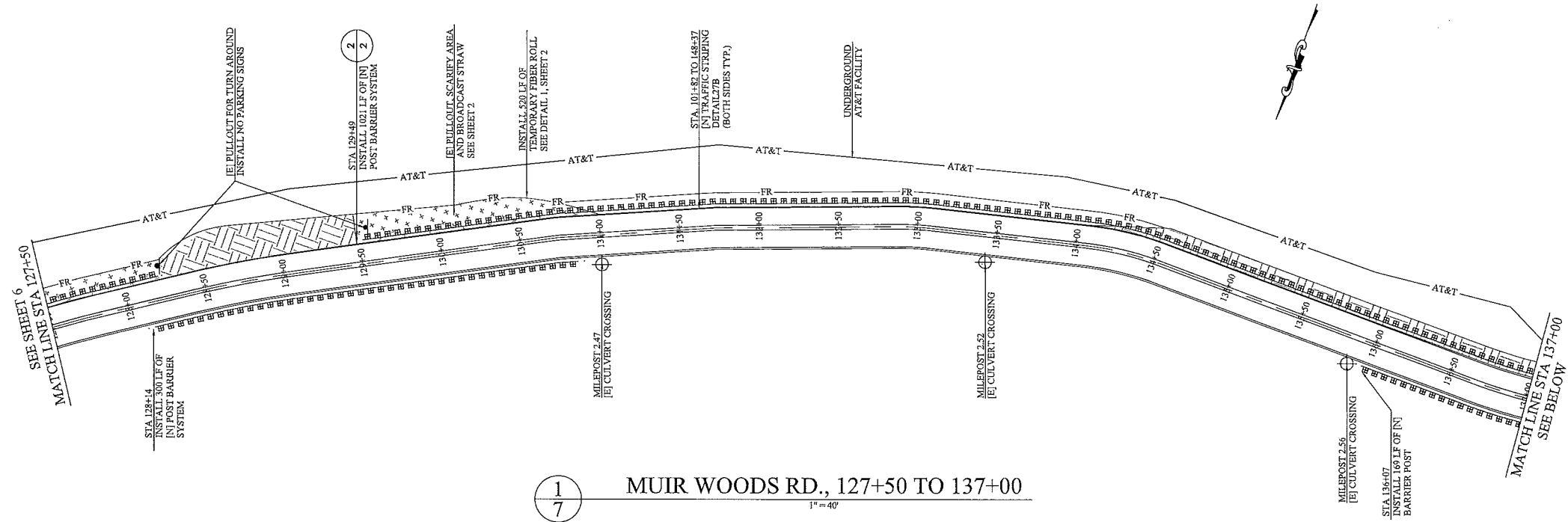
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FORMAL PROJ. NO.:	APPROVAL RECOMMENDED:
BENCHMARK DESCRIPTION:	ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 43942
	DATE:

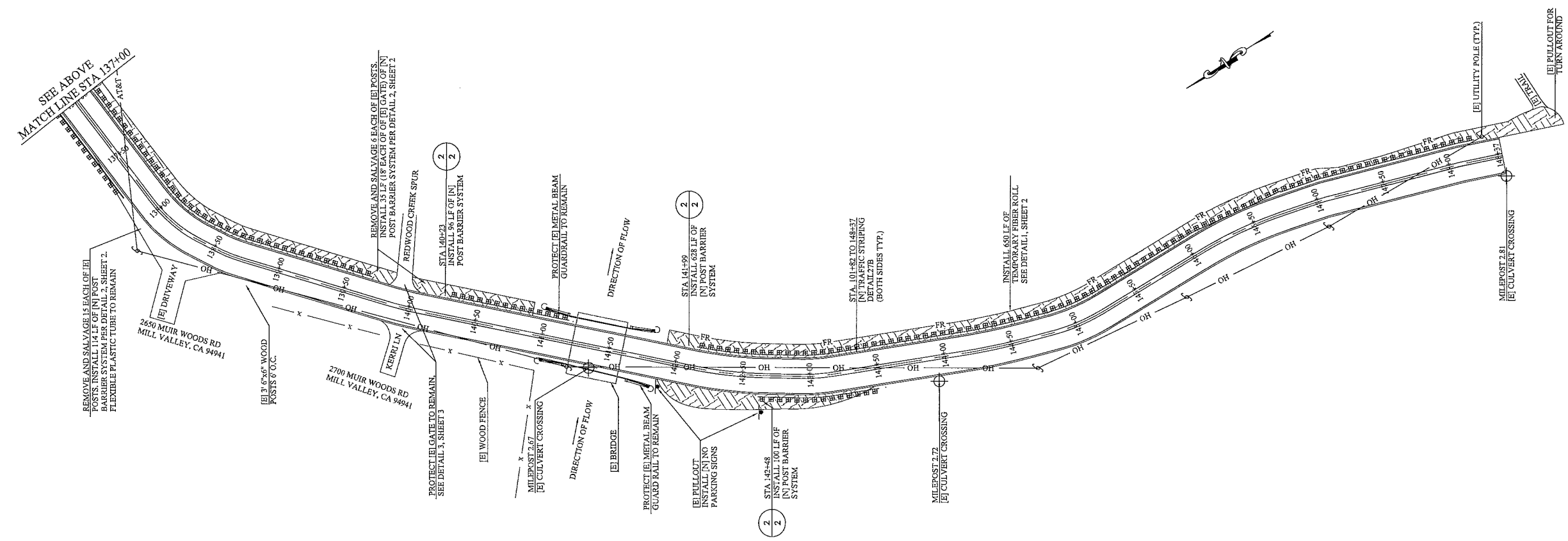
LAYOUT PLAN
STA 101+82 TO 127+50
PROJECT SITE 2

MUIR WOODS ROAD
PARKING RESTRICTION IMPROVEMENTS PHASE 1
M.P. 0.61 TO 2.81

SHT. 6 OF 7
COUNTY PLAN NO.
2015-20



1
7
MUIR WOODS RD., 127+50 TO 137+00
1"=40'



2
7
MUIR WOODS RD., 137+00 TO 148+37
1"=40'

No.	DATE	DESCRIPTION	BY:
7			
6			
5			
4			
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2			
1			

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LAYOUT PLAN
STA 127+50 TO 148+37
PROJECT SITE 2

MUIR WOODS ROAD
PARKING RESTRICTION IMPROVEMENTS PHASE 1
M.P. 0.61 TO 2.81

SHT. 7 OF 7
COUNTY PLAN NO.
2015-20