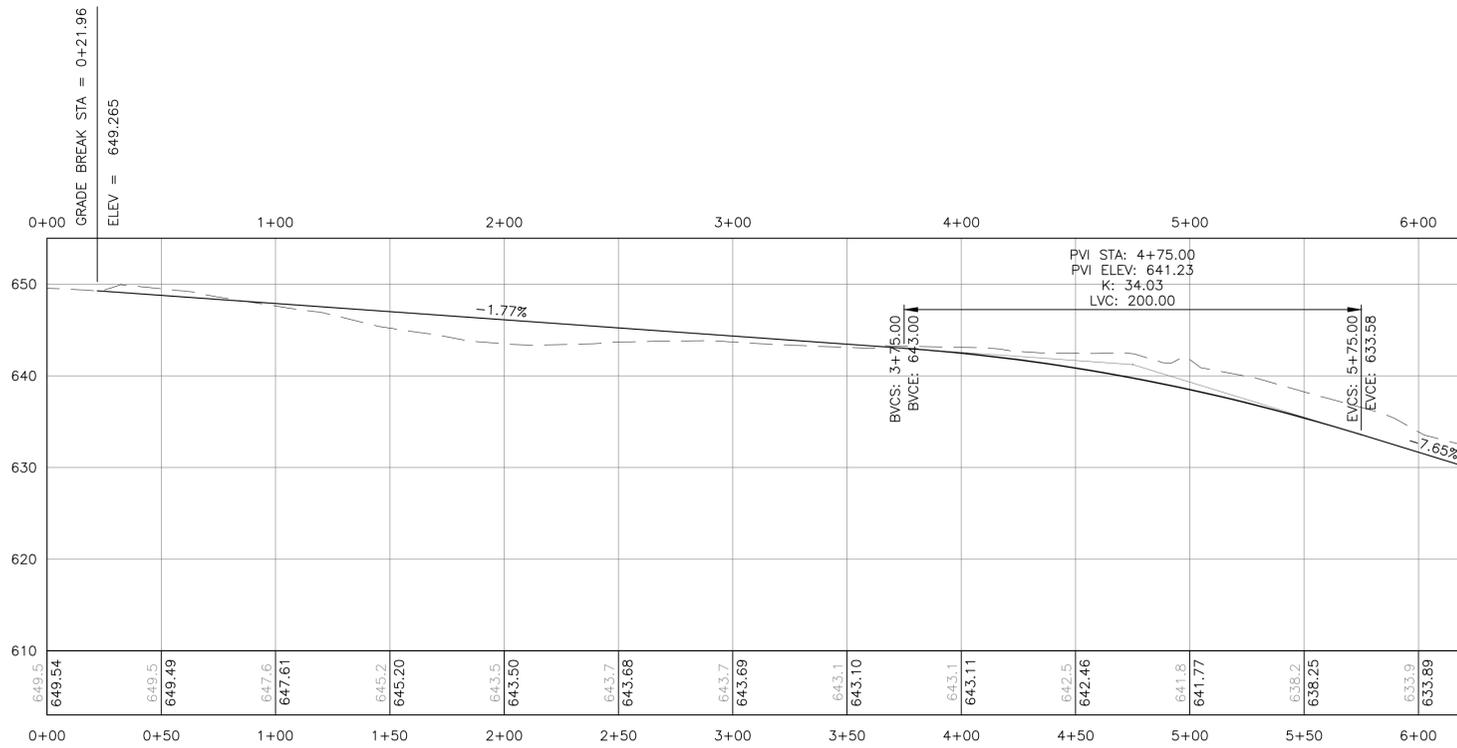


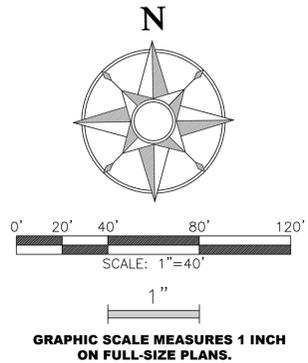
ROAD C: PLAN VIEW
1" = 40'



ROAD C: PROFILE VIEW
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'

KEYNOTE TABLE		
①	12' TRAVEL LANE: 6" AC / 10" BASE / 12" SUBBASE	3 CS.0
②	1.5' SHOULDER	3 CS.1
③	2.5' CURB AND GUTTER	4 CS.1
④	2:1 MATCH LINE	3 CS.0
⑤	INTERSECTION: ROAD C & NORTH STATE STREET	
⑥	LIMIT OF PROPOSED 100' MENDOT ROW EASEMENT	

LEGEND:
 EXISTING GROUND PROFILE
 PROPOSED ROAD PROFILE



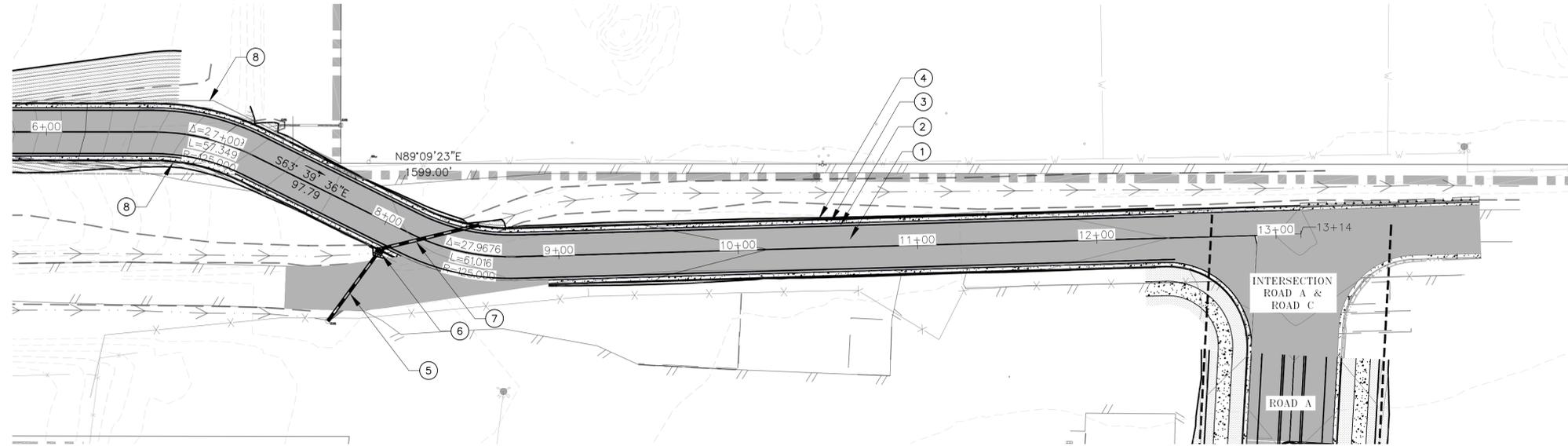
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NO.	HISTORY / REVISION	BY	CHK.	DATE

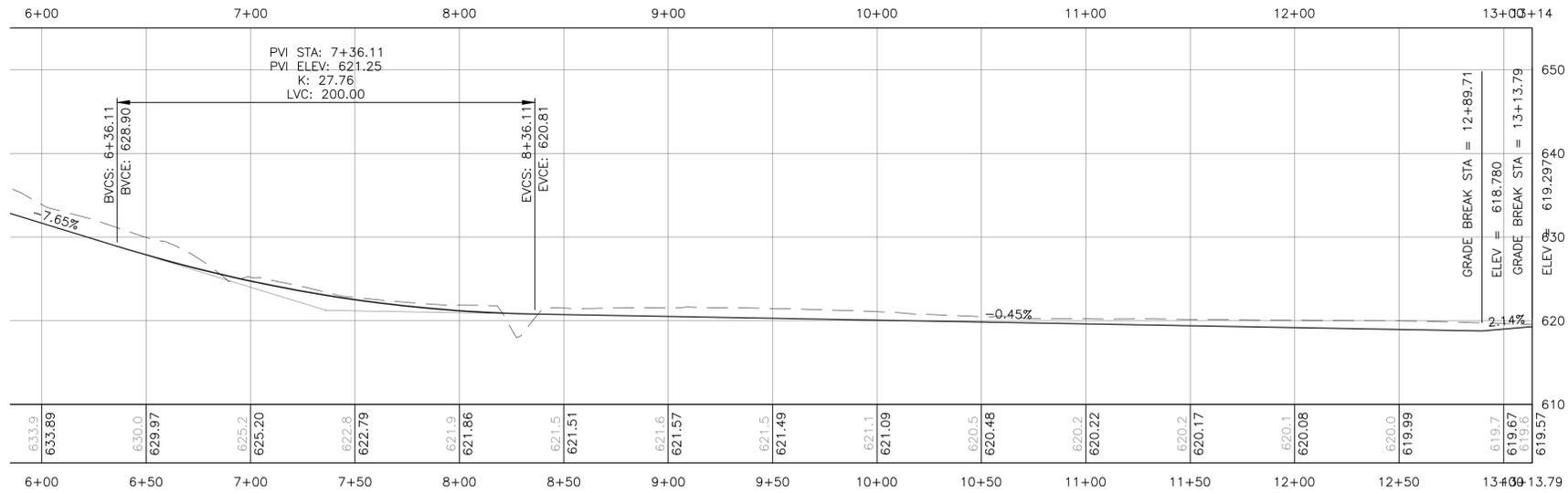
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ROAD C - PLAN & PROFILE
 STA 0+00 - 6+00
 FRIENDS OF LIBERTY, LLC
 1307 MASONITE ROAD, UKIAH, CA 95482

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CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
13	C1.7



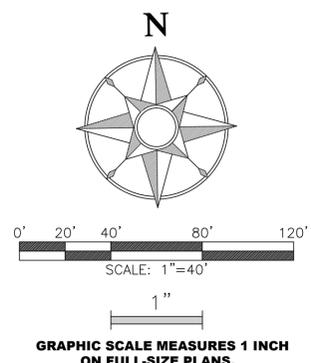
ROAD C: PLAN VIEW
SCALE: 1" = 40'

KEYNOTE TABLE		
①	12' TRAVEL LANE: 6" AC / 10" BASE / 12" SUBBASE	③ CS.0
②	1.5' SHOULDER	③ CS.1
③	2.5' CURB AND GUTTER	④ CS.1
④	2:1 MATCH LINE	③ CS.0
⑤	18" RCP CULVERT	② CS.2
⑥	TYPE "C" CATCH BASIN	③ CS.1
⑦	3' X 2' CONCRETE BOX CULVERT	
⑧	LIMIT OF PROPOSED 100' MENDOT ROW EASEMENT	



ROAD C: PROFILE VIEW
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'

LEGEND:
 EXISTING GROUND PROFILE
 PROPOSED ROAD PROFILE



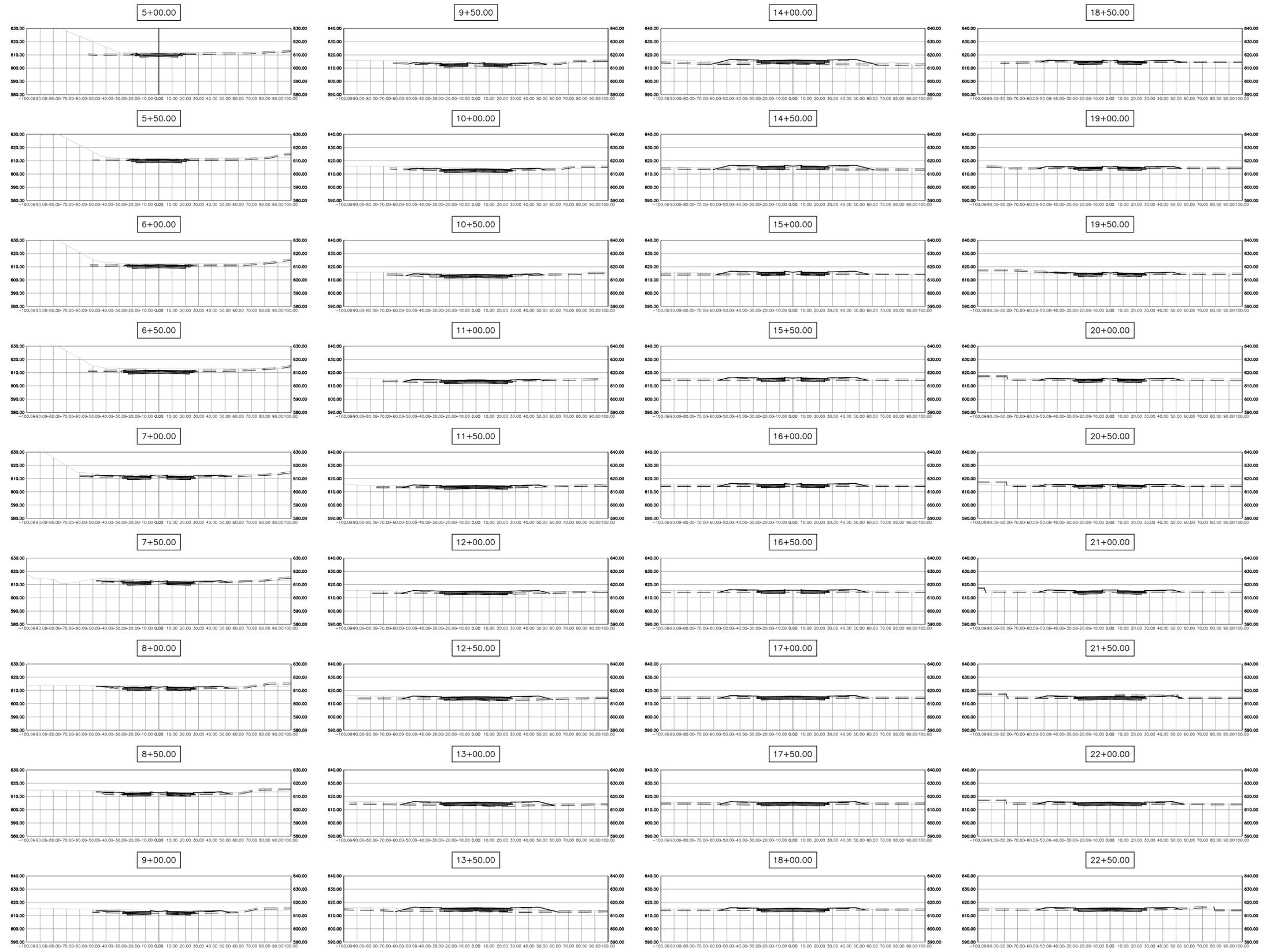
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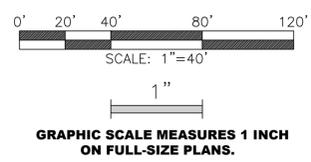
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ROAD C - PLAN & PROFILE
 STA 6+00 - 13+14
 FRIENDS OF LIBERTY, LLC
 1307 MASONITE ROAD, UKIAH, CA 95482

DRAWN	BD
CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
14	C1.8



ROAD A: CROSS SECTIONS
1" = 40'

LEGEND:
 - - - - - EXISTING GROUND PROFILE
 - - - - - EXISTING GROUND -1' PROFILE
 ——— PROPOSED ROAD PROFILE



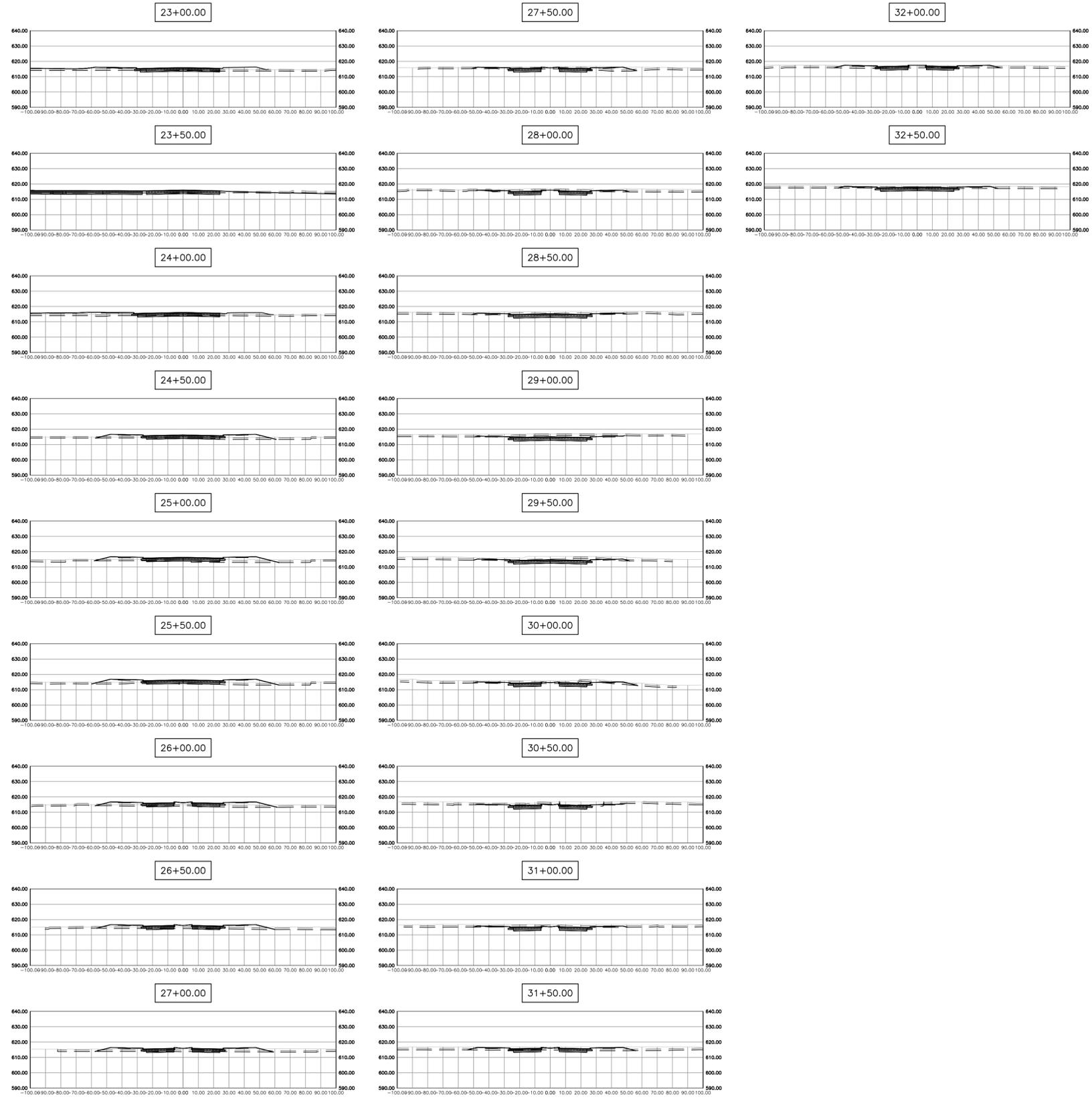
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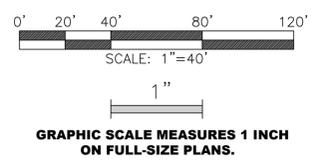
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 PRELIMINARY DESIGN SUBMITTAL
ROAD A - CROSS SECTIONS
 STA 5+00 - 22+50
 FRIENDS OF LIBERTY, LLC
 1307 MASONITE ROAD, UKIAH, CA 95482

DRAWN	BD
CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
15	C3.1



ROAD A: CROSS SECTIONS
1" = 40'

LEGEND:
 - - - - - EXISTING GROUND PROFILE
 - - - - - EXISTING GROUND -1' PROFILE
 ———— PROPOSED ROAD PROFILE



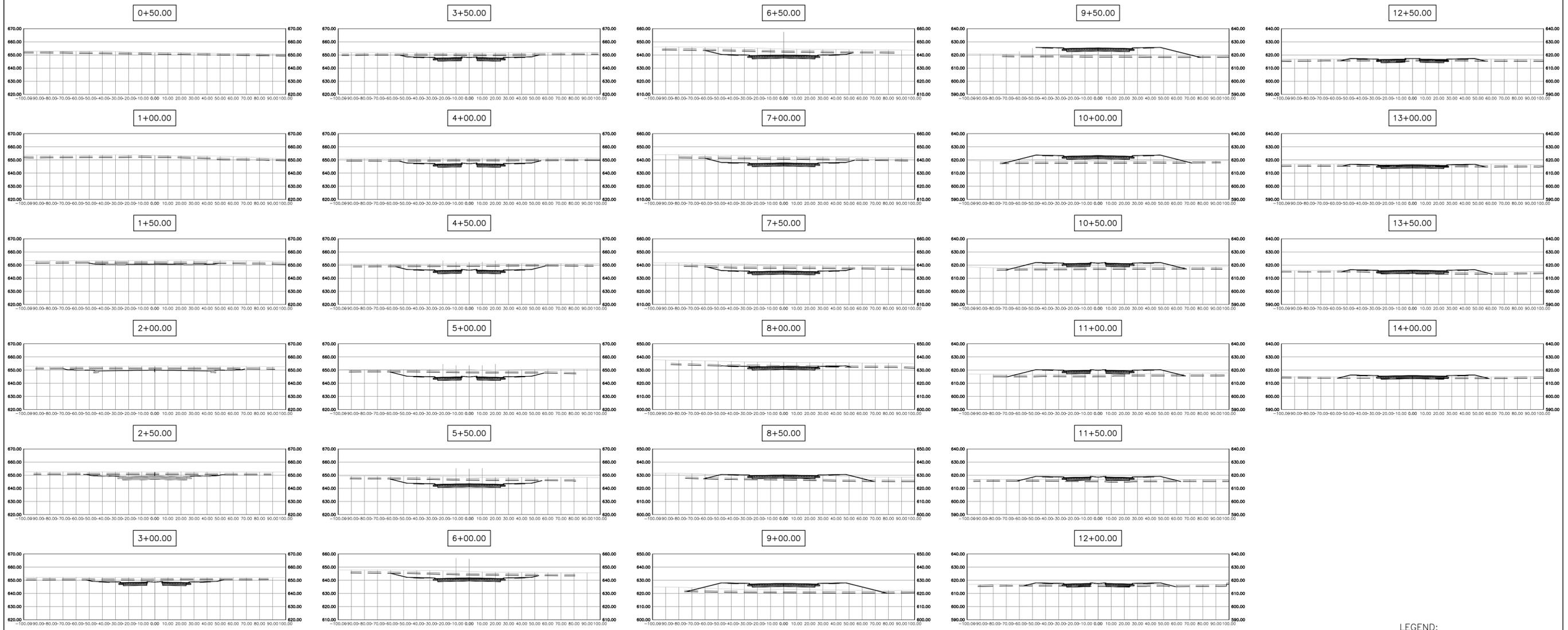
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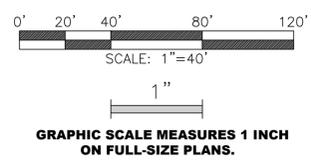
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 PRELIMINARY DESIGN SUBMITTAL
ROAD A - CROSS SECTIONS
 STA 23+00 - 32+50
 FRIENDS OF LIBERTY, LLC
 1307 MASONITE ROAD, UKIAH, CA 95482

DRAWN	BD
CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
16	C3.2



ROAD B: CROSS SECTIONS
1" = 40'

LEGEND:
 - - - - - EXISTING GROUND PROFILE
 EXISTING GROUND -1' PROFILE
 _____ PROPOSED ROAD PROFILE



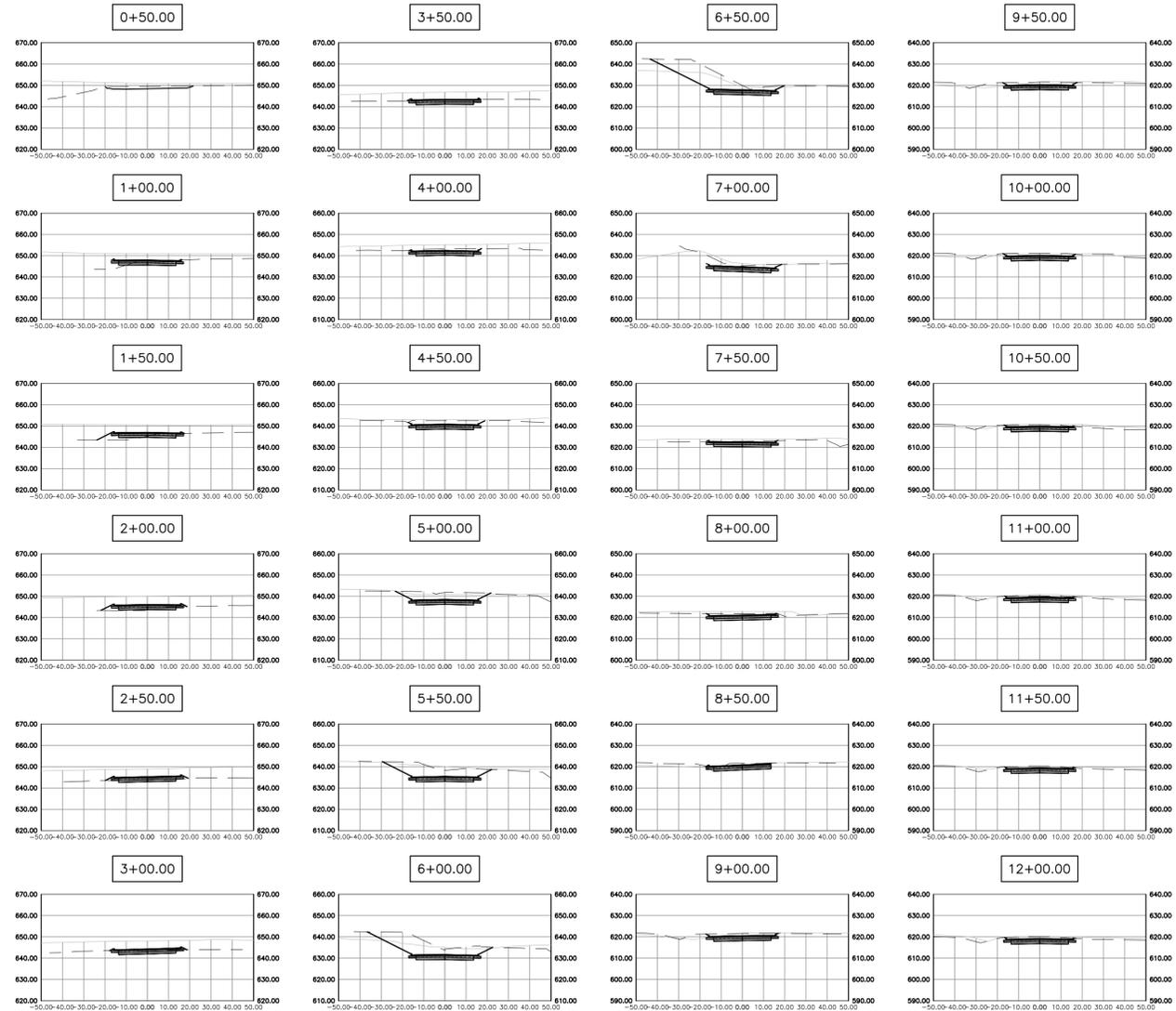
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NO.	HISTORY / REVISION	BY	CHK.	DATE

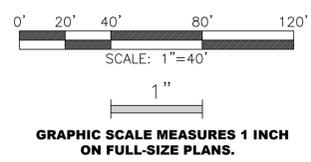
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ROAD B - CROSS SECTIONS
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 FRIENDS OF LIBERTY, LLC
 1307 MASONITE ROAD, UKIAH, CA 95482

DRAWN	BD
CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
17	C3.3



ROAD C: CROSS SECTIONS
1" = 40'

LEGEND:
 - - - - - EXISTING GROUND PROFILE
 - - - - - EXISTING GROUND -1' PROFILE
 ——— PROPOSED ROAD PROFILE



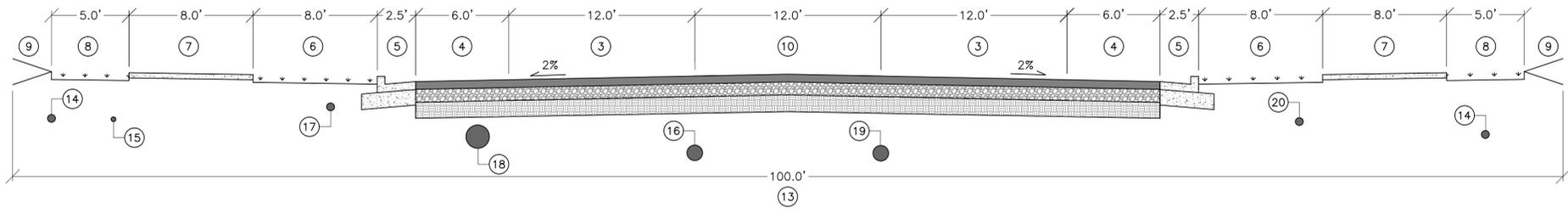
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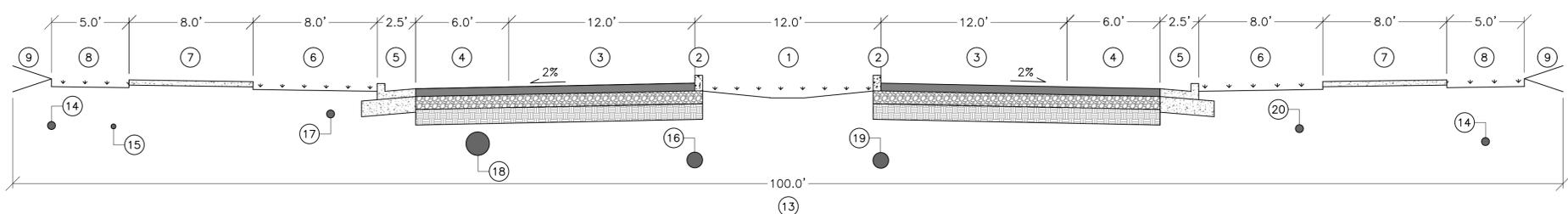
NO.	HISTORY / REVISION	BY / CHK.	DATE

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 PRELIMINARY DESIGN SUBMITTAL
ROAD C - CROSS SECTIONS
 STA 0+50 - 12+00
 FRIENDS OF LIBERTY, LLC
 1307 MASONITE ROAD, UKIAH, CA 95482

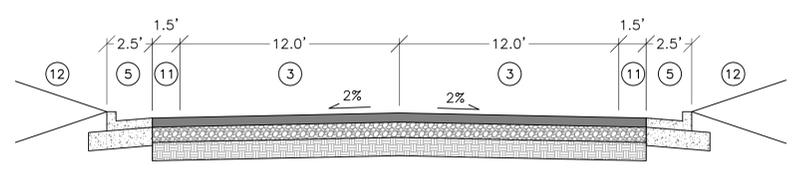
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CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
18	C3.4



1 **TYPICAL ROAD SECTION W/ TURN LANE**
N.T.S.



2 **TYPICAL ROAD SECTION W/ LANDSCAPED MEDIAN**
N.T.S.



3 **TYPICAL ROAD SECTION W/ OUT MEDIAN**
N.T.S.

KEYNOTE TABLE		
1	11' LANDSCAPED MEDIAN WITH TREES AND RIVER COBBLES	4 CS.2
2	6" CURB MEDIAN BORDER	4 CS.1
3	12' TRAVEL LANE: 6" AC / 10" BASE / 12" SUBBASE	
4	6' BIKE LANE: 6" AC / 10" BASE / 12" SUBBASE	
5	2.5' CURB AND GUTTER: 4" CONCRETE / 12" BASE	4 CS.1
6	8' INSIDE GREENWAY	5 CS.2
7	8' SIDEWALK: 4" CONCRETE	4 CS.1
8	5' OUTSIDE GREENWAY	6 CS.2
9	4:1 MATCH LINE	
10	12' MEDIAN TURNLANE: 6" AC / 10" BASE / 12" SUBBASE	
11	1.5' SHOULDER: 6" AC / 10" BASE / 12" SUBBASE	
12	2:1 MATCH LINE	
13	LIMIT OF PROPOSED 100' MENDOT ROW EASEMENT	
14	ELECTRICAL UTILITY LINE WITH STUB OUTS	2 CS.2
15	GAS UTILITY LINE WITH STUB OUTS	2 CS.2
16	SANITARY SEWER UTILITY LINE WITH STUB OUTS	2 CS.2
17	STREET LIGHT CONDUIT	2 CS.2
18	STORM SEWER UTILITY LINES	2 CS.2
19	WATER MAIN UTILITY LINE WITH STUB OUTS	2 CS.2
20	TELEPHONE/CATV UTILITY LINE WITH STUB OUTS	2 CS.2

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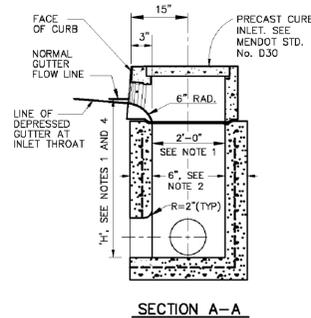
LIBERTY: PRELIMINARY ROADWAY DESIGN
PRELIMINARY DESIGN SUBMITTAL
CONSTRUCTION DETAILS

FRIENDS OF LIBERTY, LLC
1307 MASONITE ROAD, UKIAH, CA 95482

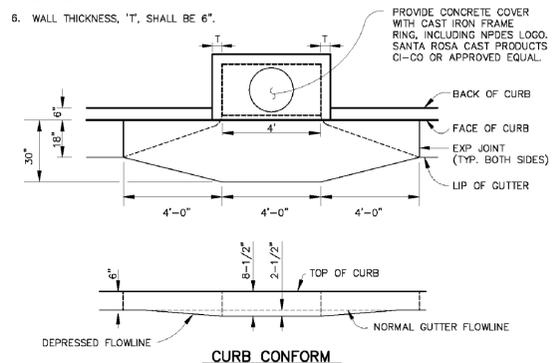
DRAWN	BD
CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
SHEET	DRAWING
19	C5.0

NOTES:

- IF PIPE INTO OR OUT OF THE CATCH BASIN IS LARGER THAN 24" OR DEPTH 'H' IS GREATER THAN 3', USE MENDOT STD. NO. D21. 'H' IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED AT THE CURB FACE.
- CATCH BASIN BASE MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR'S OPTION. IF PRECAST, MEANS SHALL BE PROVIDED FOR ADJUSTMENTS IN FIELD TO MEET FINAL GRADE OF PAVING OR SURFACING. PRECAST BASE SHALL BE SANTA ROSA CAST PRODUCTS MODEL 4A OR APPROVED EQUAL. CAST IN PLACE BASE SHALL BE REINFORCED WITH NO. 4 BARS AT 12" EACH WAY (E.W.), 1.5" CLEAR FROM INSIDE FACE OF WALL, AND SHALL BE CLASS 1 CONCRETE (6-SACK MIX).
- ALL PRECAST MATERIALS SHALL BE GROUTED PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE STEPS FOR ALL CATCH BASINS WHERE 'H' IS GREATER THAN 30". SEE CALTRANS STD. PLAN D74C FOR STEP DETAIL.
- PROVIDE 2" WEEPHOLES AS DIRECTED BY COUNTY DOT INSPECTOR OR GEOTECHNICAL ENGINEER.
- WALL THICKNESS, 'T', SHALL BE 6".

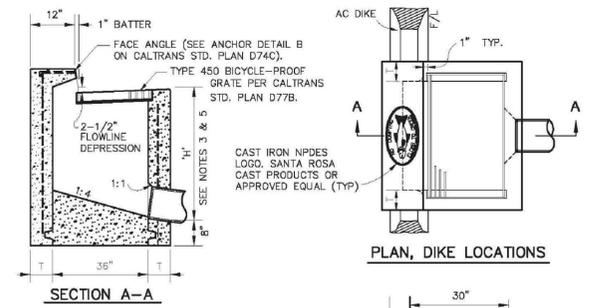


SECTION A-A



CURB CONFORM

1 TYPE "A" CATCH BASIN N.T.S.

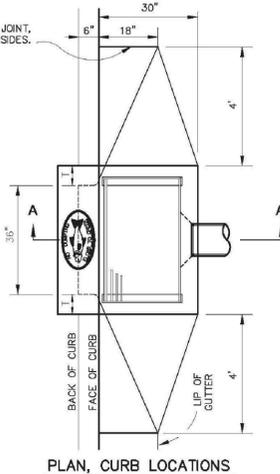


SECTION A-A

PLAN, DIKE LOCATIONS

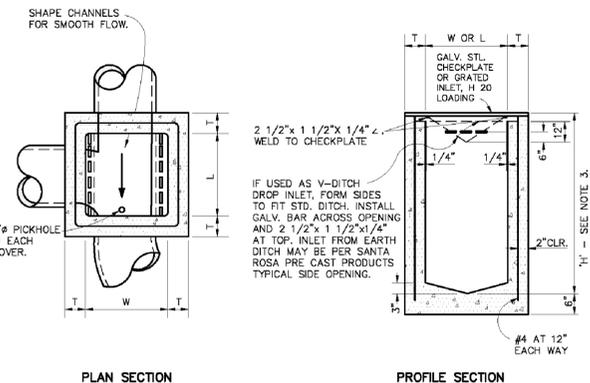
NOTES:

- SEE MENDOT STD D20 FOR DETAILS AND NOTES NOT SHOWN.
- CATCH BASIN INLET MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR'S OPTION. PRECAST INLET SHALL BE SANTA ROSA CAST PRODUCTS MODEL G0L, OR APPROVED EQUAL. FOR DIKE LOCATIONS, PRECAST INLET SHALL BE SANTA ROSA CAST PRODUCTS MODEL G2, OR APPROVED EQUAL.
- CATCH BASIN INLET MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR'S OPTION. IF PRECAST, MEANS SHALL BE PROVIDED FOR ADJUSTMENTS IN THE FIELD TO MEET FINAL GRADE OF PAVING OR SURFACING. PRECAST BASE SHALL BE SANTA ROSA CAST PRODUCTS OR APPROVED EQUAL. CAST IN PLACE BASE SHALL BE REINFORCED WITH NO. 4 BARS AT 12" EACH WAY (E.W.), 1.5" CLEAR FROM INSIDE FACE OF WALL, AND SHALL BE CLASS 1 CONCRETE (6-SACK MIX). PROVIDE 48" MANHOLE BASE WHERE 'H' IS GREATER THAN 6" AND UP TO 12" USING SRCP REDUCER SLAB 48H-1M OR APPROVED EQUAL. PROVIDE SEPARATE 60" MANHOLE WHERE DEPTH IS GREATER THAN 12". 'H' IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED AT THE CURB FACE.
- ALL PRECAST MATERIALS SHALL BE GROUTED PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE STEPS FOR CATCH BASINS WHERE 'H' IS GREATER THAN 30". SEE CALTRANS STD. PLAN D74C FOR STEP DETAIL.
- PROVIDE 2" WEEPHOLES AS DIRECTED BY COUNTY DOT INSPECTOR OR GEOTECHNICAL ENGINEER.
- WALL THICKNESS, 'T', SHALL BE 6" FOR DEPTHS UP TO 8" AND SHALL BE 8" FOR DEPTHS GREATER THAN 8".



PLAN, CURB LOCATIONS

2 TYPE "C" CATCH BASIN N.T.S.



PLAN SECTION

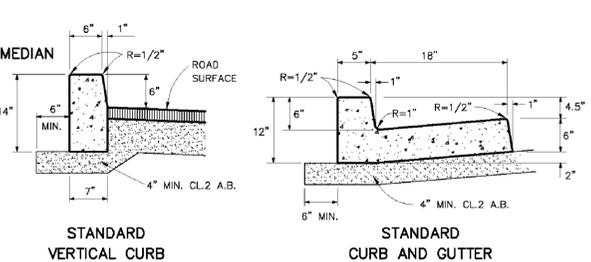
PROFILE SECTION

DEPTH	L	W	T	COVER(S)
3' OR LESS	24"	24"	6"	1 - 36" x 36"
OVER 3' TO 8'	36"	36"	6"	2 - 24" x 48"
OVER 8' TO 12'	SEE NOTE 3	8"	2 - 30" x 48"	
OVER 12'				CUSTOM STRUCTURE

NOTE:

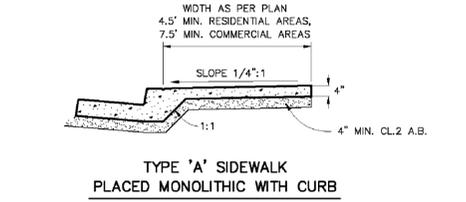
- SEE MENDOT STD D20 FOR GENERAL NOTES, REINFORCING, AND STEP REQUIREMENTS.
- DROP INLET MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR'S OPTION. PRECAST INLET SHALL BE SANTA ROSA CAST PRODUCTS (SRCP) MODEL 2K, 1M, OR 3M OR APPROVED EQUAL.
- PROVIDE 40" MANHOLE BASE WHERE 'H' IS GREATER THAN 8" AND LESS THAN OR EQUAL TO 12". USE SRCP REDUCER SLAB 48H-1M OR APPROVED EQUAL.

3 DROP INLET N.T.S.

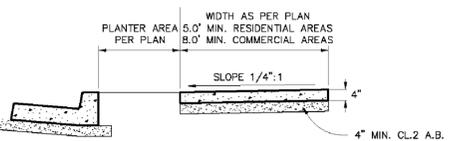


STANDARD VERTICAL CURB

STANDARD CURB AND GUTTER



TYPE 'A' SIDEWALK PLACED MONOLITHIC WITH CURB



TYPE 'B' SIDEWALK PLACED SEPARATE FROM CURB

4 CURB, GUTTER & SIDEWALK N.T.S.

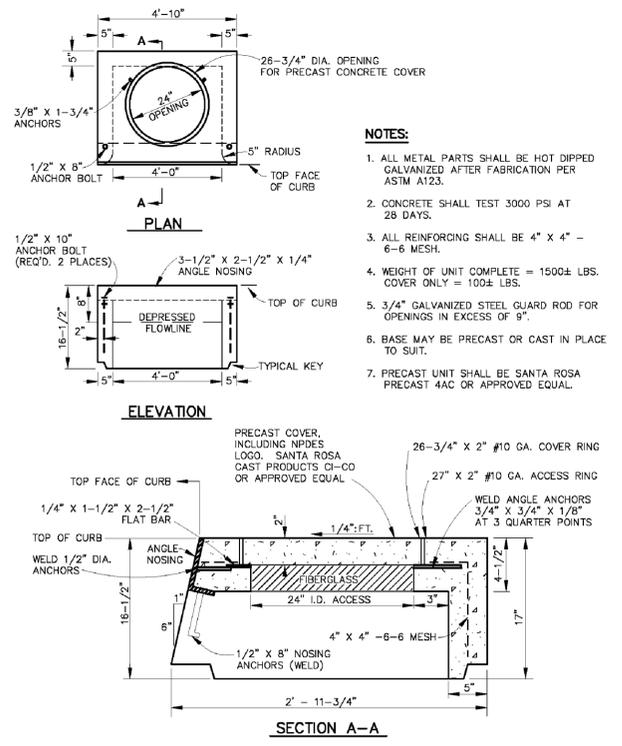
NOTES:

- CONCRETE SHALL BE CLASS 1, 1" MAXIMUM AGGREGATE SIZE PER CALTRANS STANDARD SPECIFICATIONS AND SHALL CONTAIN NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD. NO COLOR OR LAMP-BLACK SHALL BE ADDED UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIAL PROVISIONS.
- EXPANSION JOINTS, 1/2 INCH WIDE, SHALL BE PLACED AT BOTH SIDES OF DRIVEWAY APPROACHES, AT EACH SIDE OF DRAINAGE STRUCTURES, AT ENDS OF CURB RETURNS, AND AT 60 FEET ON CENTER. EXPANSION JOINTS SHALL BE ALIGNED THROUGH ADJACENT CURB, GUTTER AND SIDEWALK.
- WEAKENED PLANE JOINTS AT LEAST 1-1/2 INCH DEEP SHALL BE PLACED AT 15 FEET ON CENTER. WEAKENED PLANE JOINTS SHALL BE INSTALLED AT CENTER OF ALL DRIVEWAY APPROACHES OVER 20' WIDE.
- SCORE MARKS AT LEAST 1/4 INCH DEEP SHALL BE PLACED AT BACK OF CURB AND IN ALL SIDEWALKS TO ESTABLISH AN EQUAL SQUARE PATTERN BASED ON THE SIDEWALK WIDTH. MAXIMUM SCORE MARK SPACING SHALL BE 5 FEET.
- SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION IN THE TOP 6 INCHES.
- EXISTING CONCRETE TO BE REPLACED SHALL BE REMOVED AT EXPANSION JOINTS, WEAKENED PLANE JOINTS OR SCORE MARKS. CONCRETE REMOVED AT WEAKENED PLANE JOINTS OR SCORE MARKS SHALL BE SAWCUT. SAWCUTS SHALL BE AT LEAST 1-1/2 INCH DEEP.
- NO UTILITY BOXES OR POLES SHALL BE PLACED IN THE SIDEWALK AREA WITHOUT THE WRITTEN APPROVAL OF THE DOT DIRECTOR.
- NEW WORK SHALL MATCH EXISTING IN SCORE PATTERN AND COLOR.
- NO CONCRETE SHALL BE PLACED UNTIL AFTER THE COUNTY INSPECTOR HAS APPROVED FORMS AND SUBGRADE.
- ALL EXPOSED EDGES SHALL BE ROUNDED WITH 1/2 INCH RADIUS TOOL.
- ALL SURFACES SHALL BE BROOM FINISHED.
- ALL SIDEWALKS CONSTRUCTED ADJACENT TO CURBS SHALL BE TYPE "A", PLACED MONOLITHIC WITH CURB, UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIAL PROVISIONS.
- LANDSCAPE MAINTENANCE EASEMENTS (LME) SHALL BE MAINTAINED BY THE ENTITY TASKED WITH THAT RESPONSIBILITY THROUGH THE DEVELOPMENT PERMIT. SHOULD VEGETATION EVER POSE A SAFETY HAZARD THE MENDOCINO COUNTY ROAD COMMISSIONER RESERVES ALL OPTIONS UNDER CALIFORNIA STREETS AND HIGHWAYS CODE. SOME OPTIONS UNDER THE STREETS AND HIGHWAYS CODE ARE TO REMOVE THE VEGETATION OR CAUSE THE VEGETATION TO BE REMOVED BY OTHERS, AT THE RESPONSIBLE PARTIES EXPENSE. THE LANDSCAPE MAINTENANCE EASEMENT HOLDER SHALL BE CONSIDERED THE OWNER OF THE VEGETATION AND ALSO BE FINED FOR EACH DAY THE VEGETATION REMAINS IN PLACE AFTER DIRECTION BY THE ROAD COMMISSIONER TO REMOVE IT.
- THE ROAD BASEMENT SOILS AND BASE ROCK SECTION SHALL BE PROTECTED FROM SUBSURFACE WATER BY DESIGN AND MAINTENANCE OF SURFACE AND SUBSURFACE WATER INTERCEPTORS IN THE LANDSCAPE MAINTENANCE EASEMENTS (LME). DAMAGE TO THE ROAD SECTION AS A RESULT OF IMPROPER MAINTENANCE OF THE LME SHALL BE REPAIRED AT THE EXPENSE OF THE ENTITY TASKED WITH THAT RESPONSIBILITY THROUGH THE DEVELOPMENT PERMIT.

NOTES REFER TO STANDARD A40A

4 / CS.1

5 CURB, GUTTER & SIDEWALK NOTES N.T.S.



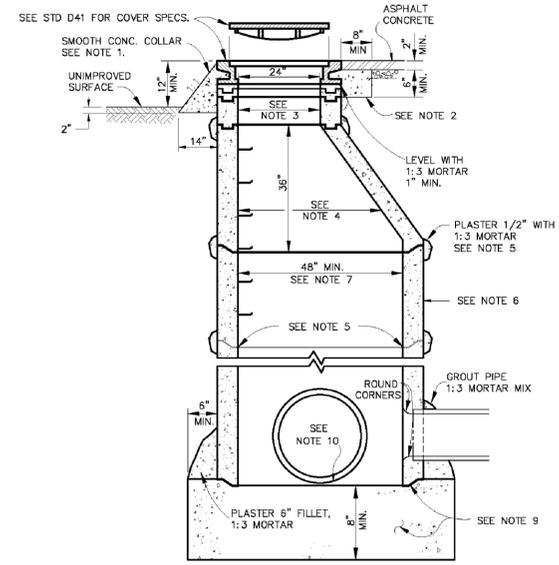
ELEVATION

SECTION A-A

NOTES:

- ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
- CONCRETE SHALL TEST 3000 PSI AT 28 DAYS.
- ALL REINFORCING SHALL BE 4" x 4" - 6-6 MESH.
- WEIGHT OF UNIT COMPLETE = 1500± LBS. COVER ONLY = 100± LBS.
- 3/4" GALVANIZED STEEL GUARD ROD FOR OPENINGS IN EXCESS OF 9".
- BASE MAY BE PRECAST OR CAST IN PLACE TO SUIT.
- PRECAST UNIT SHALL BE SANTA ROSA PRECAST 44C OR APPROVED EQUAL.

6 PRECAST CURB INLET N.T.S.



NOTE: SEE MANHOLE NOTES ON STANDARD D40B

7 STORM DRAIN MANHOLE N.T.S.

NOTES:

- WHEN MANHOLES ARE INSTALLED IN UNIMPROVED AREAS, THE TOP OF THE COVER SHALL BE A MINIMUM OF 1 FOOT ABOVE ADJACENT GRADE AND CONCRETE COLLAR SHALL BE PROVIDED. CONCRETE COLLAR SHALL BE CLASS 1 CONCRETE (6-SACK MIX). SEE DETAIL.
- WHEN MANHOLES ARE INSTALLED IN PAVED AREAS, CONCRETE COLLAR SHALL BE PROVIDED. SEE DETAIL.
- PROVIDE A MINIMUM OF ONE 3" AND ONE 6" GRADE ADJUSTMENT RING AT TOP OF MANHOLE. MAXIMUM HEIGHT OF GRADE ADJUSTMENT RINGS SHALL NOT EXCEED 20".
- CONE SECTION SHALL BE ECCENTRIC, WITH STEPS ON THE VERTICAL SIDE. STEPS SHALL BE PER CALTRANS STD. PLAN D74C. WHERE DEPTH IS NOT SUFFICIENT TO PROVIDE CONE SECTION, REDUCER SLAB PER MENDOT STD. D42 SHALL BE USED.
- ALL JOINTS SHALL BE SEALED WITH RAM-NEK JOINT COMPOUND, 1:3 MORTAR MIX, OR APPROVED EQUAL. WET BOTH TONGUE AND RING BEFORE APPLYING MORTAR AND SETTING RING. WIFE INSIDE EDGE OF JOINTS SMOOTH AND PROVIDE POINTED JOINT. PLASTER OUTSIDE OF JOINT WITH 1/2" LAYER OF MORTAR.
- PRECAST MANHOLE MATERIAL SHALL BE MANUFACTURED TO ASTM SPECIFICATION C-478. ALL SECTIONS OF MANHOLE SHALL BE IDENTICAL MAKE AND MANUFACTURER. PRECAST MANHOLE SHALL BE SANTA ROSA PRECAST MODEL M48E OR APPROVED EQUAL.
- DEPTH SHALL BE MEASURED FROM RIM TO FLOWLINE OF OUTLET PIPE. MANHOLES OVER 7 FEET IN DEPTH, OR WITH A PIPE GREATER THAN 36" INSIDE DIAMETER, SHALL BE 5 FEET INSIDE DIAMETER.
- MENDOT STD. NO. D40 SHALL NOT BE USED FOR MANHOLES LESS THAN 3 FEET IN DEPTH, PIPES GREATER THAN 60" INSIDE DIAMETER, OR FOR MANHOLES WITH MORE THAN 3 PIPE CONNECTIONS.
- BASE SHALL BE CAST IN PLACE TO FULL THICKNESS SHOWN. BASE SHALL BE CONSTRUCTED OF CLASS 1 CONCRETE (6-SACK MIX) AND SHALL BE PLACED AGAINST UNDISTURBED EARTH. JOINT BETWEEN BASE AND FIRST WALL SECTION SHALL BE FORMED BY SETTING WALL SECTION ON FRESH CONCRETE OR BY USING TONGUE & GROOVE IMPRESSION RING.
- CONSTRUCT FLOW CHANNELS TO MATCH PIPE SHAPE USING STEEL TROWEL. ELEVATION CHANGES THROUGH MANHOLE SHALL BE A STRAIGHT GRADE WITH NO ABRUPT CHANGES. DIRECTIONAL CHANGES SHALL BE MADE WITH SMOOTH CURVES.

NOTE: NOTES REFER TO MENDOT STD. D40A.

8 STORM DRAIN MANHOLE NOTES N.T.S.

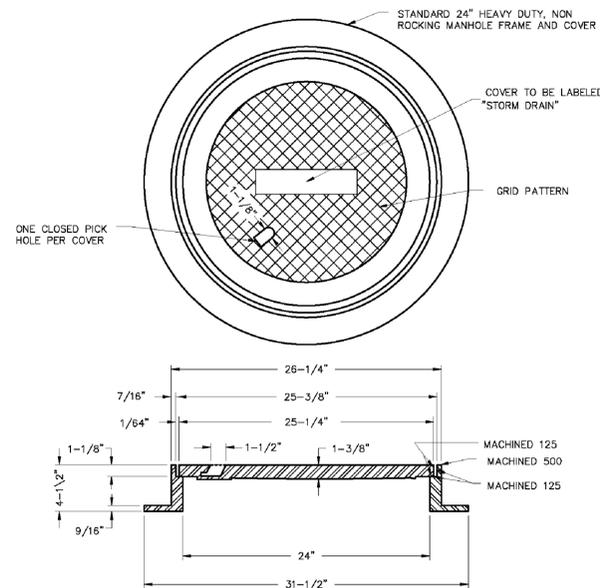
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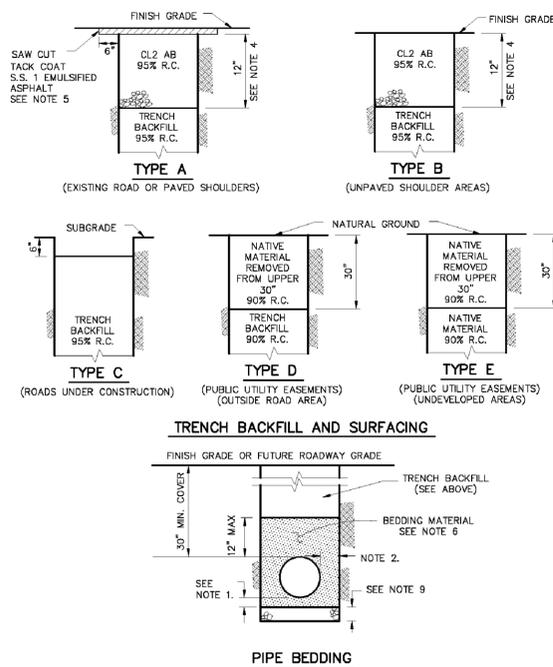
LIBERTY: PRELIMINARY ROADWAY DESIGN
PRELIMINARY DESIGN SUBMITTAL
CONSTRUCTION DETAILS
FRIENDS OF LIBERTY, LLC
1307 MASONITE ROAD, UKIAH, CA 95482

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CHECK	RLW
APPROVED	RLW
DATE	4/20/2018
JOB NUMBER	7583.14
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- NOTES:**
- ALL CASTINGS SHALL BE DIPPED IN APPROVED ASPHALT PAINT.
 - ALL MATERIAL USED IN MANUFACTURING SHALL CONFORM TO A.S.T.M. DESIGNATION 48-30, OR TO UNITED STATES GOVERNMENT SPECIFICATIONS QQ-652B.
 - MINIMUM WEIGHT COMPONENTS: COVER - 130 POUNDS
FRAME - 135 POUNDS
 - CAST IRON FRAME AND COVER SHALL BE MACHINE FITTED AND PAINTED WITH BITUMINOUS PAINT. SOUTHBAY FOUNDRY SBF1900 OR APPROVED EQUAL.

1 STORM DRAIN MANHOLE N.T.S.



NOTE:
SEE MENDOT STD. A60B AND A60C FOR ALL TRENCH RESTORATION NOTES.

2 TRENCH RESTORATION N.T.S.

TRENCH RESTORATION NOTES:

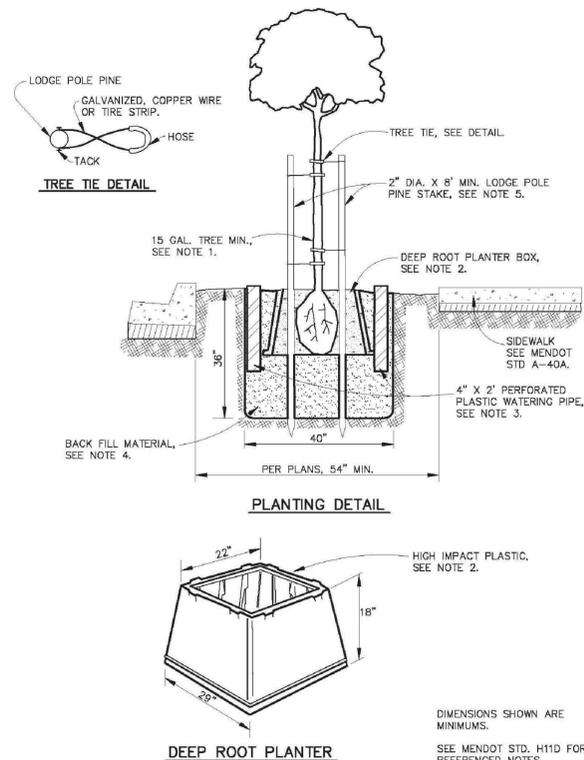
- BEDDING BELOW PIPE SHALL BE AS REQUIRED BY UTILITY OR AGENCY THAT OWNS THE FACILITY.
- 12" MIN., OR 6" MIN. IF SLURRY CEMENT BACKFILL IS USED. SEE NOTE 10.
- RELATIVE COMPACTION DESIGNATED R.C.
- THE MINIMUM ROAD STRUCTURAL SECTION SHALL BE A MIN. OF 3" A.C. ON 12" CL. 2 A.B. OR SHALL MATCH EXISTING PAVEMENT THICKNESS WHICHEVER IS THICKER, UNLESS OTHERWISE SHOWN ON THE PLANS. STRUCTURAL SECTION IN SHOULDERS SHALL MATCH EXISTING AND SHALL BE A MIN. OF 8" CL. 2 A.B.
- NEATLY CUT PAVEMENT SIX INCHES FROM EDGE OF TRENCH AFTER TRENCH IS BACKFILLED. SSI DESIGNATES SSI ASPHALTIC EMULSION PER CALTRANS STANDARD SPECIFICATION, SECTION 94, ASPHALTIC EMULSION.
- MATERIAL SPECIFICATIONS**
 - DRAIN ROCK SHALL BE EITHER OF THE NOMINAL SIZES DESIGNATED AS 1-1/2" BY 3/4" OR 2-1/2" BY 1-1/2".
 - PIPE BEDDING AND TRENCH BACKFILL MATERIAL SHALL BE A WELL GRADED GRAVEL/SAND MATERIAL AND SHALL HAVE A MINIMUM SAND EQUIVALENT VALUE OF 20 AND SHALL CONFORM TO THE FOLLOWING GRADINGS:

	3"	3/4"	3/8"	NO. 4	NO. 10	NO. 20	NO. 30	NO. 60	NO. 200
PIPE BEDDING	100	80-100	10-50	5-30	20-100	0-4			
TRENCH BACKFILL	100		35-100						
 - IN ADDITION, WHEN TESTED WITH THE FOLLOWING SERIES OF SIEVES, NO MORE THAN 25% OF THE MATERIAL WILL BE RETAINED BETWEEN ANY ADJACENT SIEVES: 3", 2-1/2", 2", 1-1/2", 1", 3/4", 1/2", 3/8", NO. 4, NO. 8, NO. 16, NO. 30, NO. 50, NO. 100, AND NO. 200.
 - AGGREGATE BASE** CL. 2 A.B. DESIGNATES CLASS 2 AGGREGATE BASE AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26 OF THE COUNTY STANDARD SPECIFICATIONS.
 - NATIVE MATERIAL** SHALL NOT CONTAIN ROCKS LARGER THAN 3".

- COMPACTION REQUIREMENTS:** (AS SHOWN ON A60A AND IN THE FOLLOWING MODIFICATIONS)
- DRAIN ROCK** SHALL BE CONSOLIDATED WITH VIBRATORY COMPACTION EQUIPMENT TO A MINIMUM R.C. OF 90%.
- PIPE BEDDING MATERIAL** SHALL BE CONSOLIDATED WITH VIBRATORY COMPACTION EQUIPMENT TO A MINIMUM R.C. OF 90%.
- GENERAL:** THE COMPACTION REQUIREMENTS SHALL BE ACHIEVED UTILIZING METHODS AND EQUIPMENT APPROVED BY THE COUNTY. ANY METHOD OF COMPACTION WHICH FAILS TO UNIFORMLY ACHIEVE THE REQUIRED LEVELS OF COMPACTION THROUGHOUT THE LENGTH AND DEPTH OF TRENCHES SHALL BE DISCONTINUED. COMPACTION METHODS AND EQUIPMENT SHALL BE SUCH AS NOT TO DAMAGE THE INSTALLED PIPE, EXCEED ITS LOADING CAPACITY OR DISTURB ITS ALIGNMENT. FLOODING, PONDING OR JETTING WILL NOT BE ALLOWED.
- MECHANICAL COMPACTION:** TRENCH BACKFILL SHALL BE PLACED IN UNIFORM, HORIZONTAL LAYERS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS BEFORE COMPACTION. EACH LAYER SHALL BE COMPACTED, USING MECHANICAL MEANS, TO THE SPECIFIED DENSITY SHOWN ON THE PLANS.

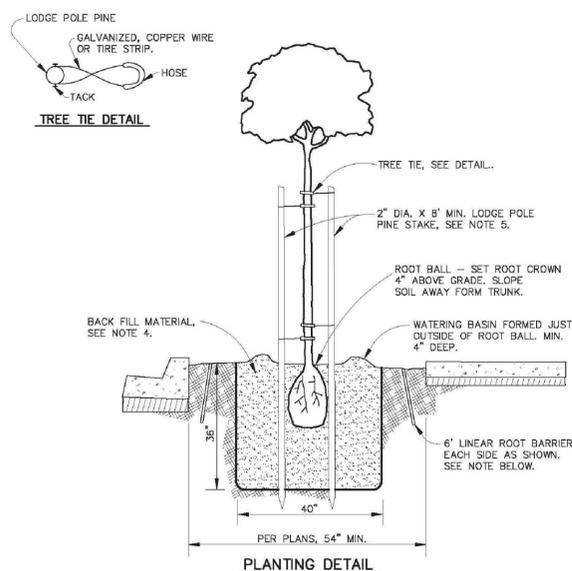
THE CONTRACTOR MAY, AT CONTRACTOR'S SOLE OPTION AND AT CONTRACTOR'S SOLE EXPENSE, CONSTRUCT A TEST TRENCH SECTION WHICH DEMONSTRATES METHODS, EQUIPMENT, OR MATERIALS WHICH WILL RELIABLY ACHIEVE THE REQUIRED COMPACTION IN LIFTS GREATER THAN 8 INCHES. AT ITS SOLE DISCRETION, THE COUNTY MAY INCREASE THE MAXIMUM ALLOWABLE LIFT THICKNESS PERMITTED BASED UPON THE RESULTS DEMONSTRATED BY THE TEST TRENCH SECTION. SHOULD SUBSEQUENT TESTING DEMONSTRATE THAT THE REQUIRED COMPACTION IS NOT BEING RELIABLY ACHIEVED, THE COUNTY MAY, AT ITS SOLE DISCRETION, REDUCE THE MAXIMUM LIFT THICKNESS TO ITS ORIGINAL VALUE OF 8 INCHES.
- TRENCHING METHODS:** ROCK WHEEL TRENCHING SHALL BE ALLOWED FOR TRENCH CONSTRUCTION IN COUNTY ROADS. INSTALLATION OF CABLE USING THE FLOW METHOD SHALL NOT BE ALLOWED.
- TRENCH BASE:** TRENCH BASE SHALL BE STABILIZED USING ADDITIONAL PIPE BEDDING; DRAIN ROCK, OR OTHER SUITABLE MATERIAL AS DIRECTED BY UTILITY, COUNTY DOT, OR CIVIL ENGINEER IN RESPONSIBLE CHARGE OF THE WORK.
- SLURRY CEMENT BACKFILL:** SLURRY CEMENT BACKFILL MAY BE USED FOR TRENCH BACKFILL ONLY AS AUTHORIZED BY COUNTY DOT, BUT SHALL BE REQUIRED WHEN TRENCH WIDTHS OF LESS THAN 12 INCHES ARE REQUESTED. SLURRY CEMENT BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 19-3.062. SLURRY CEMENT BACKFILL, OF THE CALTRANS STANDARD SPECIFICATIONS, UNLESS COUNTY DOT DIRECTOR APPROVES A SPECIFIC MIX DESIGN.

3 TRENCH RESTORATION NOTES N.T.S.



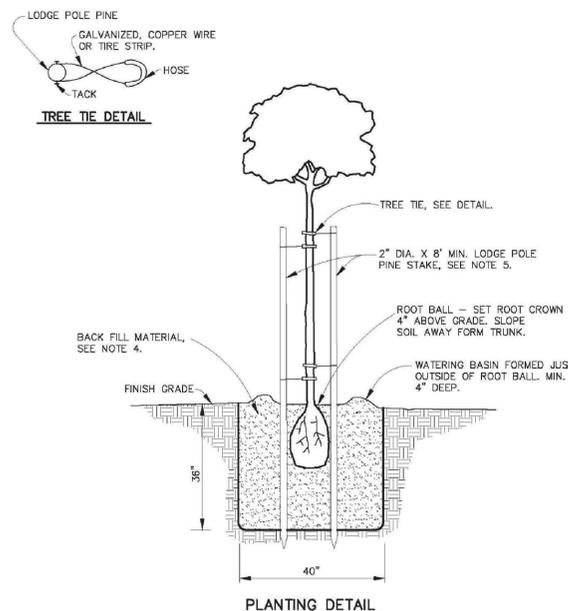
DIMENSIONS SHOWN ARE MINIMUMS.
SEE MENDOT STD. H11D FOR REFERENCED NOTES.

4 TREE PLANTING - SIDEWALKS N.T.S.



NOTES:
ROOT BARRIER MATERIAL SHALL BE APPROVED BY THE DOT DIRECTOR. THE BARRIER SHALL BE PLACED BETWEEN THE TREE AND CURB, AND SIDEWALK. BARRIER SHALL BE A MINIMUM 14\"/>

5 TREE PLANTING - PARKWAY N.T.S.



SEE MENDOT STD. H11D FOR REFERENCED NOTES.

6 TREE PLANTING - SHOULDER N.T.S.

GENERAL NOTES:

- TREES SHALL BE OF A SIZE NOT LESS THAN 8 FT. IN HEIGHT NOR LESS THAN 1 INCH CALIPER. A TREE MAY BE REJECTED IF IT IS NOT OF A SHAPE OR CONDITION ACCEPTABLE TO THE COUNTY DOT DIRECTOR OR THE APPROVAL AUTHORITY.
- TREES IN SIDEWALK AREAS SHALL BE PLANTED IN DEEP ROOT PLANTER BOX. THE PLANTER BOX SHALL BE A MINIMUM OF 22 INCHES AT THE TOP, 29 INCHES AT THE BOTTOM AND 18 INCHES DEEP. DEEP ROOT PLANTER SHALL BE FABRICATED FROM A HIGH DENSITY AND HIGH IMPACT PLASTIC SUCH AS POLYVINYL CHLORIDE, ABS OR POLYETHYLENE AND HAVE A MINIMUM THICKNESS OF 0.06 INCH. THE PLASTIC SHALL HAVE 1/2 INCH HIGH RAISED VERTICAL RIBS ON THE INNER SURFACE SPACED NOT MORE THAN SIX (6) INCHES APART.
- INSTALL TWO DEEP WATERING PERFORATED PLASTIC PIPES AS SHOWN. FILL PIPES WITH 3/4 INCH CLEAN DRAIN ROCK.
- TREES SHALL BE PLANTED IN A MIXTURE OF 1/2 NATIVE SOIL AND 1/2 LEAF MOLD OR REDWOOD MULCH.
- TREES SHALL BE STAKED WITH TWO 2 INCH BY 8 FT. MINIMUM LODGE POLE PINE STAKES OR EQUAL. STAKES SHALL BE COATED WITH GREEN PRESERVATIVE STAIN.
- TREES SHALL BE PLANTED A MINIMUM OF 20 FT. APART. TREES SHALL BE PLANTED A MINIMUM OF 20 FT. FROM CURB RETURNS, 15 FT. FROM STREET LIGHTS AND 6 FT. FROM DRIVEWAYS, SEWER LATERALS AND WATER SERVICES, OR AS OTHERWISE DIRECTED BY THE COUNTY DOT DIRECTOR.

7 TREE PLANTING - NOTES N.T.S.

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