TRAFFIC CONTROL PLANS

HWY 99 & LATHROP RD

MANTECA, CALIFORNIA

PM 30865680

PS-1201974

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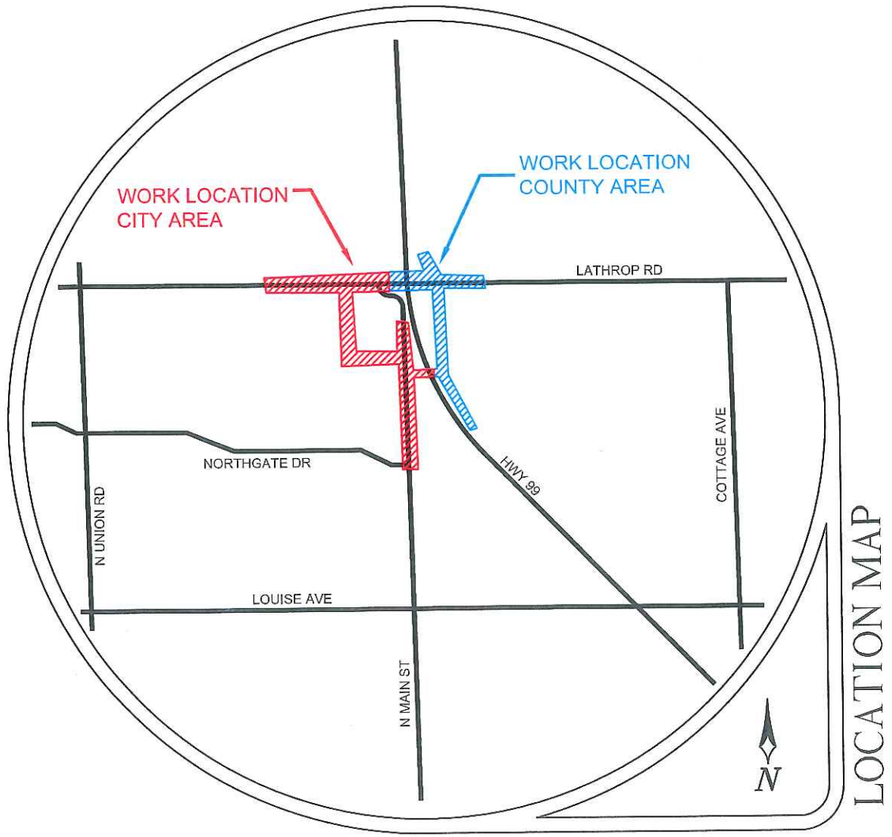

LOCATION MAP

CONTRACTOR

Pacific Gas and Electric Company

CONTACT BILL TIPTON
(916) 760-1988
WORK HOURS 800AM-330PM MON-FRI

ALMENDARIZ CONSULTING INC

(888) 306-1211 OFFICE

OK w/ note on
PG 4/6
DCV 7/19/12

GENERAL NOTES

1. NO CONSTRUCTION EQUIPMENT ALLOWED IN THE BUFFER AND TRANSITION AREAS AT ALL TIMES.
2. SIGNS ARE ONLY SHOWING TO THE PUBLIC WHEN IN USE.
3. SIGNS AND CHANNELIZING DEVICES MUST BE RETROREFLECTIVE OR ILLUMINATED DURING NIGHT OPERATIONS.
4. SIGNS ARE 36"X36" IN SIZE UNLESS NOTED OTHERWISE.
5. SIGNS ARE SPACED PER THE CALIFORNIA MUTCD MANUAL..
6. CHANNELIZING DEVICES SPACING AND TAPER LENGTHS ARE BASED ON THEIR RESPECTIVE CHARTS. (SEE CHARTS THIS PAGE)
7. NOTIFY THE LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE COMPANIES WITHIN 24 HOURS BEFORE CONSTRUCTION BEGINS.
8. CONTRACTOR TO MAKE SURE ALL TRAFFIC CONTROL EQUIPMENT MEETS ALL CAL-TRANS REQUIREMENTS.
9. REMOVE ALL CONFLICTING MARKINGS, SIGNS, ETC. DURING CONSTRUCTION.
10. THE LOCATION OF THE SIGNS AS SHOWN ON THE ILLUSTRATIONS ARE GUIDELINES AND ACTUAL LOCATIONS WILL DEPEND UPON ALIGNMENT, GRADE, LOCATION OF STREET INTERSECTIONS AND 85TH % TILE POSTED SPEED LIMITS.
11. WHILE CROSSING INTERSECTIONS DURING MOBILE WORK, WORK MUST FOLLOW THE FLOW OF TRAFFIC AND PROCEED ON A GREEN LIGHT.
12. FULL COMPLIANCE IS REQUIRED WITH THE CITY AND COUNTY AGENCY.
13. PEDESTRIAN ACCESS BE MAINTAINED AS PER THE CITY AND COUNTY AGENCY.
14. C30 SIGNS ARE PERMITTED IN BUFFER AREAS.
15. SIGN SPACING IS PROVIDED BY DOT WHEN AVAILABLE. TRAFFIC SPEEDS ARE BASED UPON RADAR MEASUREMENTS OF MOTORISTS. THE CA MUTCD ALLOWS FOR A "RANGE" IN SIGN PLACEMENT AND WILL BE PROVIDED BY DOT. THE 85TH% TILE IS USED WHEN AVAILABLE TO PROVIDE A MORE ACCURATE REPRESENTATION OF MOTORISTS SPEEDS.
16. ANY WORK WITHIN 200 FT OF A SIGNALIZED INTERSECTION WILL REQUIRE CONTACT AND COORDINATION WITH CITY, COUNTY AGENCY OR CAL-TRANS PRIOR TO ANY WORK.
17. QUALITY STANDARD TO MEET REQUIREMENTS OF SECTION 1A-2 OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
18. ALL TRAFFIC CONTROL DEVICES INCLUDING: SIGNS, BARRICADES, VERTICAL PANELS, DRUMS, WARNING LIGHTS, ARROWBOARDS, CHANGEABLE MESSAGE SIGNS, CONES AND TUBULAR MARKERS THAT MEET THE REQUIREMENTS OF AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). "CA MUTCD 2010" SHALL BE USED ON THIS PROJECT/THIS WORK.
19. THE NCHRP REPORT 476 PROVIDES GUIDELINES FOR DESIGN AND OPERATION OF NIGHTTIME TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE AND CONSTRUCTION. SEE TYPICAL APPLICATIONS NWTA-1 THROUGH NWTA-7. COMPLY WITH ANSI 107-2004 FOR APPAREL. HIGHWAY CONSTRUCTION WORK LIGHTING SHALL BE PER CONSTRUCTION SAFETY ORDER 1523 (CALIFORNIA CODE OF REGULATIONS TITLE 8, DIVISION1, CHAPTER 4, SUBCHAPTER 4, ARTICLE 3, SECTION 1523 - ILLUMINATIONS).
20. SIDEWALKS AT THE CONSTRUCTION LOCATION MAY BE CLOSED WITH ADEQUATE DETOURS. SIDEWALKS MAY ONLY BE CLOSED TO THROUGH TRAFFIC AND SHALL NOT PREVENT LOCAL PEDESTRIANS ACCESS. DETOURS SHALL NOT INCREASE THE PATH OF TRAVEL BY MORE THAN 500 FT. DETOUR ROUTES SHALL BE LIMITED TO EXISTING SIDEWALKS, PRIVATE PROPERTIES (SEE ABOVE REQUIREMENTS) AND CROSSINGS AT ROADWAY INTERSECTIONS. TO THE MAXIMUM EXTENT FEASIBLE, THE ALTERNATE CIRCULATION PATH SHALL BE PROVIDED ON THE SAME SIDE OF THE STREET AS THE DISPUTED ROUTE. WHERE IT IS FEASIBLE TO PROVIDE A SAME-SIDE ALTERNATE CIRCULATION PATH AND PEDESTRIANS WILL BE DETOURED. SECTION 6D.02 OF THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS 2012 EDITION (MUTCD) APPROVED FOR CALIFORNIA, SPECIFIES THAT THE ALTERNATE PATH PROVIDE A SIMILAR LEVEL OF ACCESSIBILITY TO THAT OF THE EXISTING DISRUPTED ROUTE . THIS MAY INCLUDE THE INCORPORATION OF ACCESSIBLE PEDESTRIAN SIGNALS (APS), CURB RAMPS, OR OTHER ACCESSIBILITY FEATURES.
21. PEDESTRIANS MAY BE DETOURED ONTO PRIVATE PROPERTY ONLY IF WRITTEN PERMISSION FROM THE PROPERTY OWNER IS OBTAINED ALONG WITH DOCUMENTATION INDICATING THAT THE CITY, COUNTY OR STATE OF CALIFORNIA (CAL-TRANS) AND ALMENDARIZ CONSULTING INC. WOULD NOT BE LIABLE IN THE EVENT OF AN ACCIDENT.
22. DURING WORK HOURS, AT LEAST ONE WORKER SHALL BE ASSIGNED WITH THE RESPONSIBILITY TO ESCORT ELDERLY, DISABLED OR ANY OTHER PEDESTRIANS IN NEED OF ASSISTANCE THROUGH THE CONSTRUCTION SITE. WORKER ASSIGNED WITH THIS RESPONSIBILITY MAY ALSO PARTICIPATE IN OTHER CONSTRUCTION ACTIVITIES HOWEVER, THE ASSIGNED WORKER SHALL BE AWARE OF HIS OR HER RESPONSIBILITIES FOR PROVIDING THIS ASSISTANCE. MEASURES THAT SIMPLY CLOSE THE SIDEWALK, WITH THE EXCEPTION THAT PEDESTRIANS WILL CROSS SOMEWHERE ELSE DOES NOT ADEQUATELY SATISFY PEDESTRIAN ACCESS. PEDESTRIANS SHOULD NEVER BE DIRECTED/ EXPECTED TO CROSS A MULTI-LANE ROADWAY AT ANY LOCATION OTHER THAN AT A SIGNAL (OR ALL-WAY STOP). ACCOMMODATIONS SHOULD BE MADE ON THE SAME SIDE OF ROADWAY AS WORK.

TABLES CHART

Posted Speed	Formula	Buffer Space	Minimum Taper Lengths									Maximum *Cone Spacing	Sign Spacing
			10' Offset			11' Offset			12' Offset				
			L Merge	1/2 L Shift	1/3 L Shoulder	L Merge	1/2 L Shift	1/3 L Shoulder	L Merge	1/2 L Shift	1/3 L Shoulder		
25		155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	100' - 200'
30		200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	120' - 240'
35	$L = \frac{WS^2}{60}$	250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	140' - 280'
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	160' - 320'
45		360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	350' - 500'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	525' Max
55	L = WS	495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	50'	550' Max
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	50'	575' Max
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	50'	600' Max
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	50'	650' Max

Both are based on.
1.) 85th % Tile or if not available, then use
2.) Posted Speed Limit (PSL)

L = Taper Length
S = Speed
W = Width (Offset from path of travel

*Cones shown on the templates are illustration purposes only. Exact number of cones required shall be based on cone spacing, taper lengths, actual field actual field conditions, etc.....

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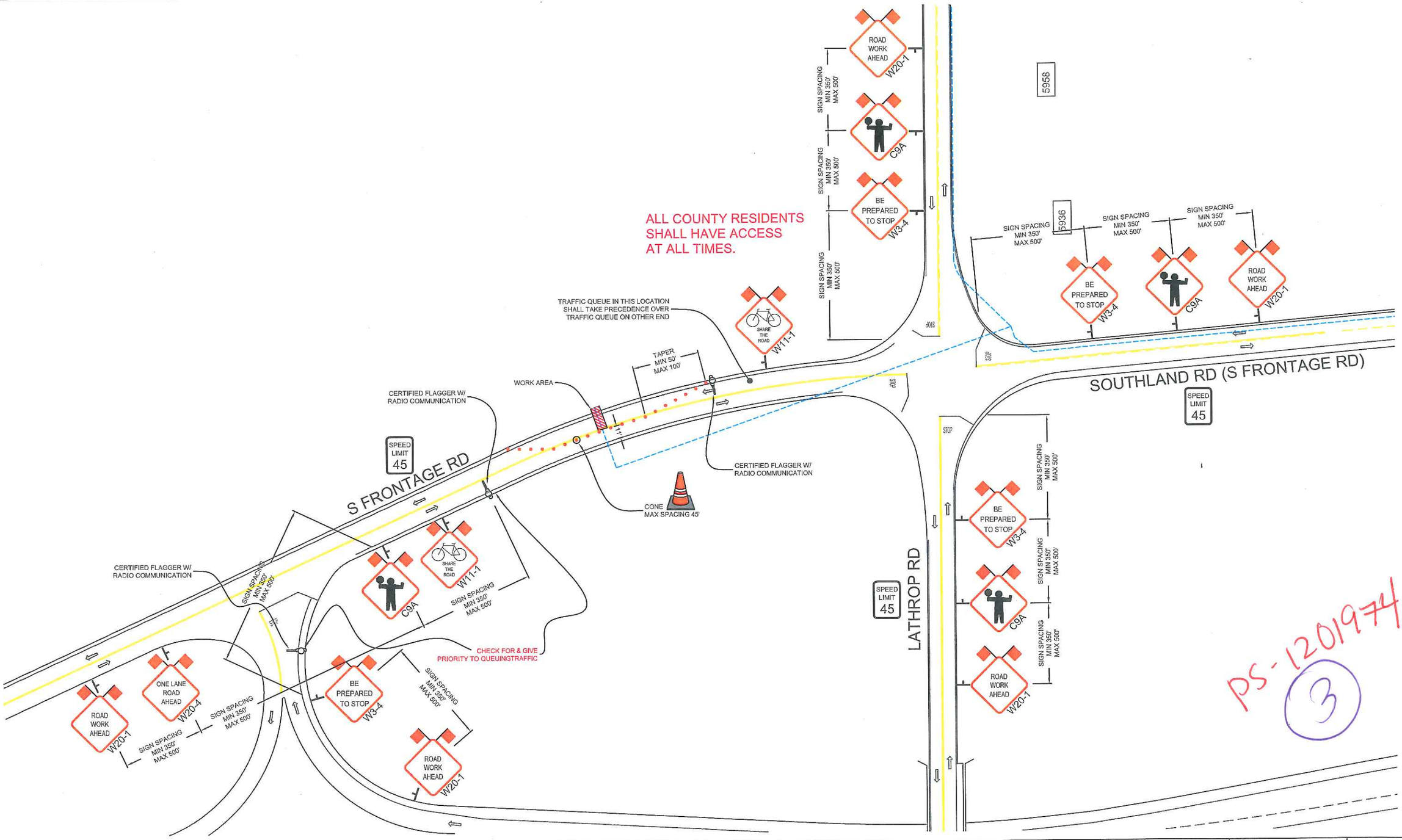

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1144 SUNCAST LN STE 1
EL DORADO HILLS, CA 95762
(555) 306-1211 OFFICE
(555) 768-7022 FAX

LOCATION HWY 99 & LATHROP RD, MANTECA, CALIFORNIA

Pacific Gas and Electric Company

CONTACT BILL TIPTON
PHONE# (916) 760-1988
WORKING HOURS 830AM-400PM MON-FRI

PROJECT NO. 12079
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DESIGNED CAA
CHECKED MAA
DATE MARCH 9, 2012

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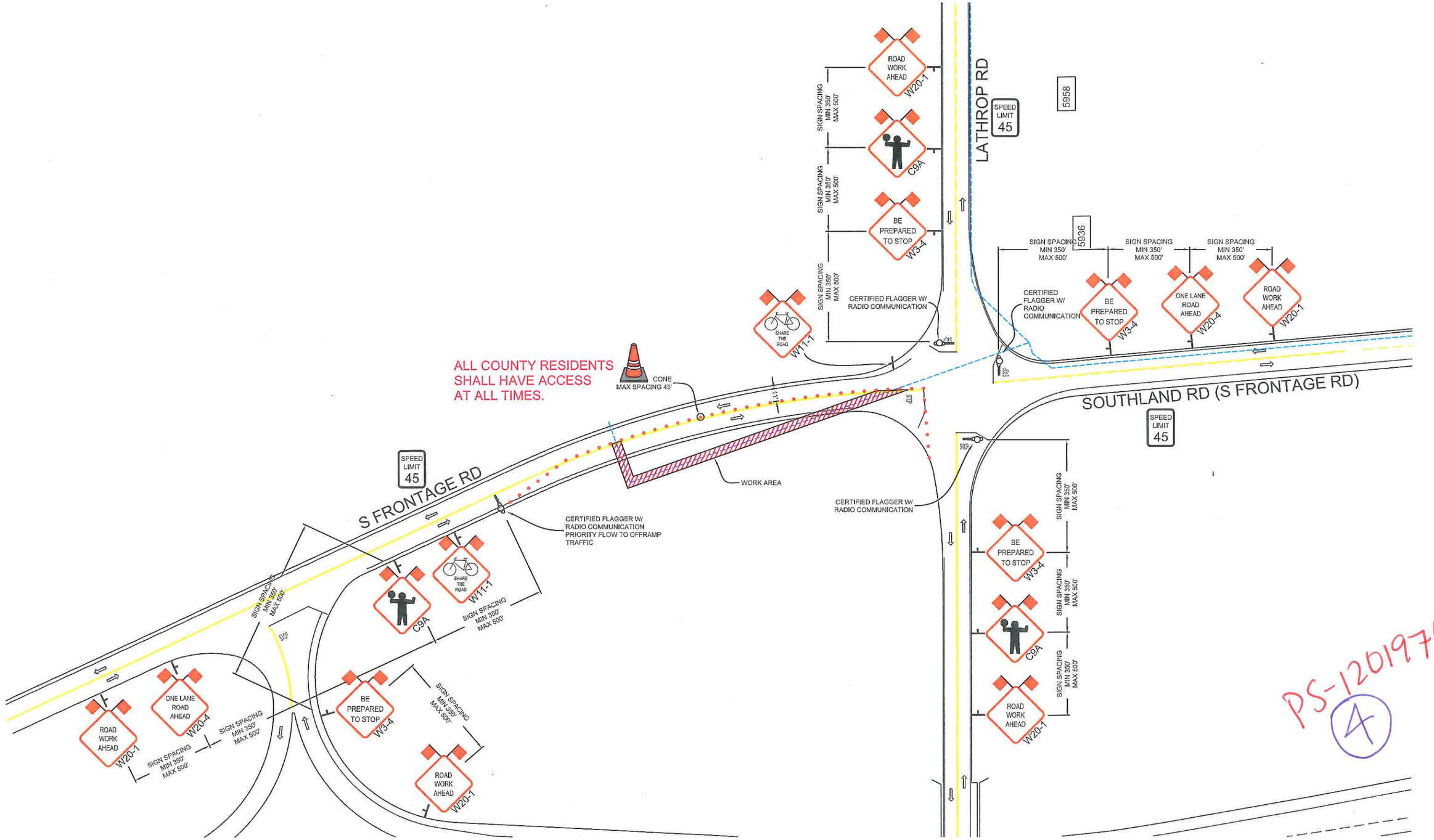
SHEET NO. 1 OF 30



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REV.	DESCRIPTION	BY	DATE					PG&E Pacific Gas and Electric Company CONTACT BILL TIPTON PHONE* (916) 760-1988 WORKING HOURS 830AM-400PM MON-FRI	N SHEET NO. 2 OF 30
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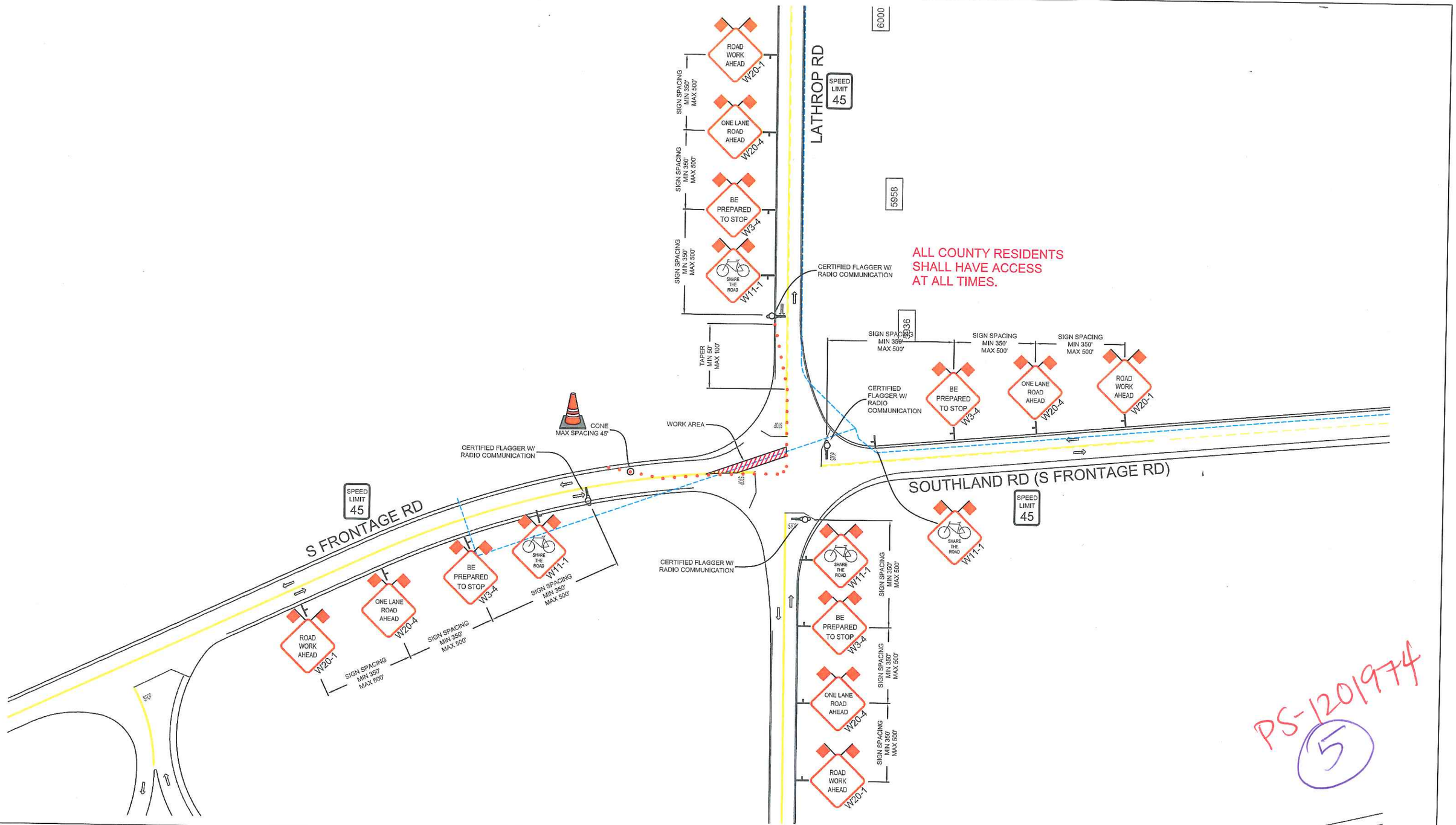

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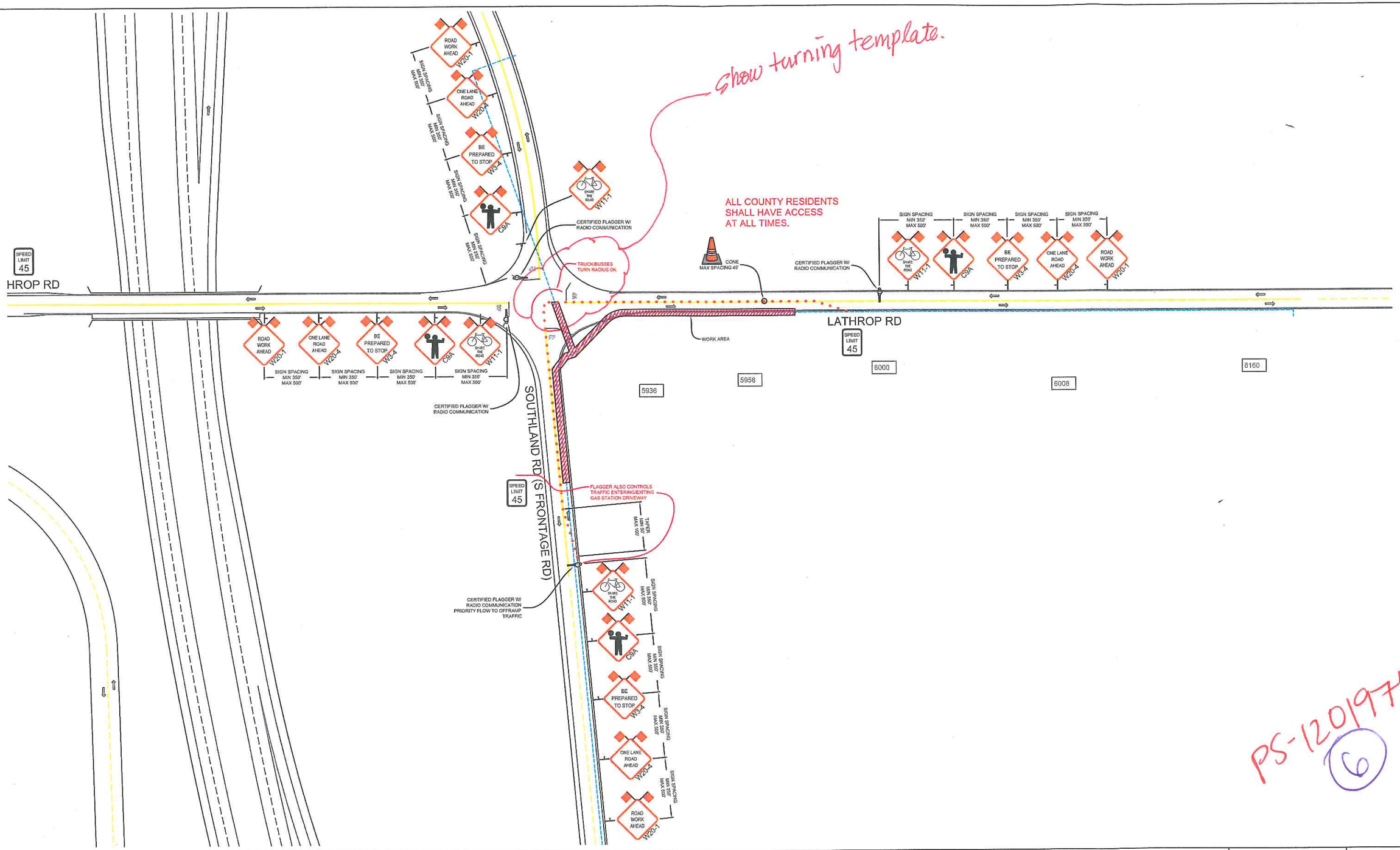

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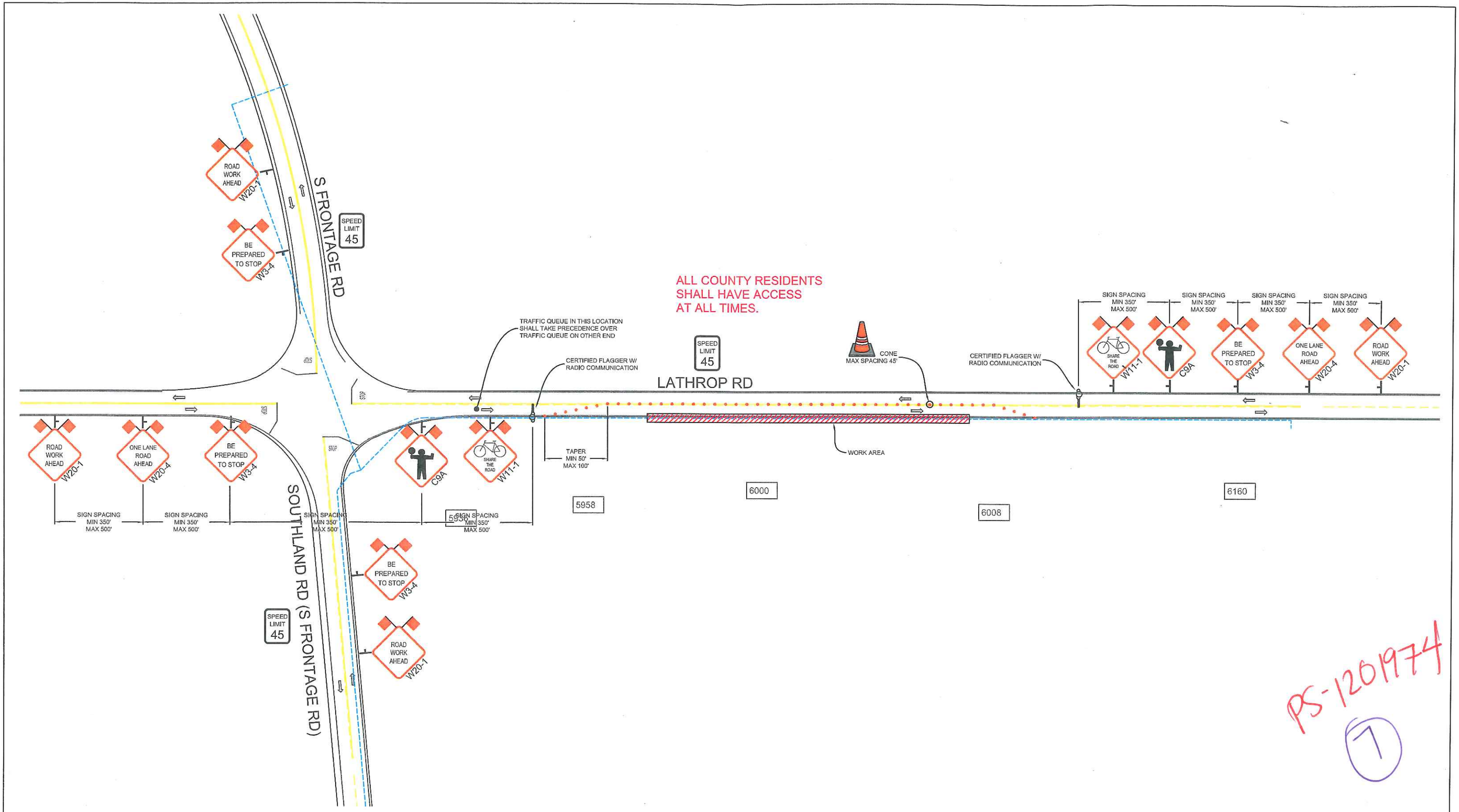

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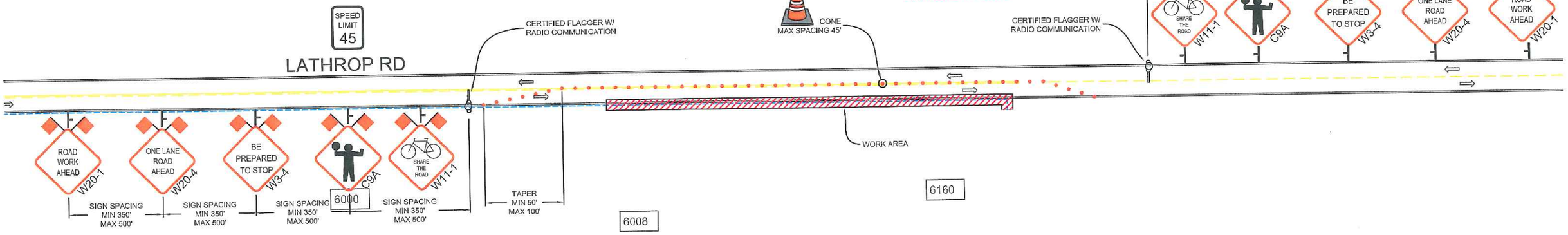

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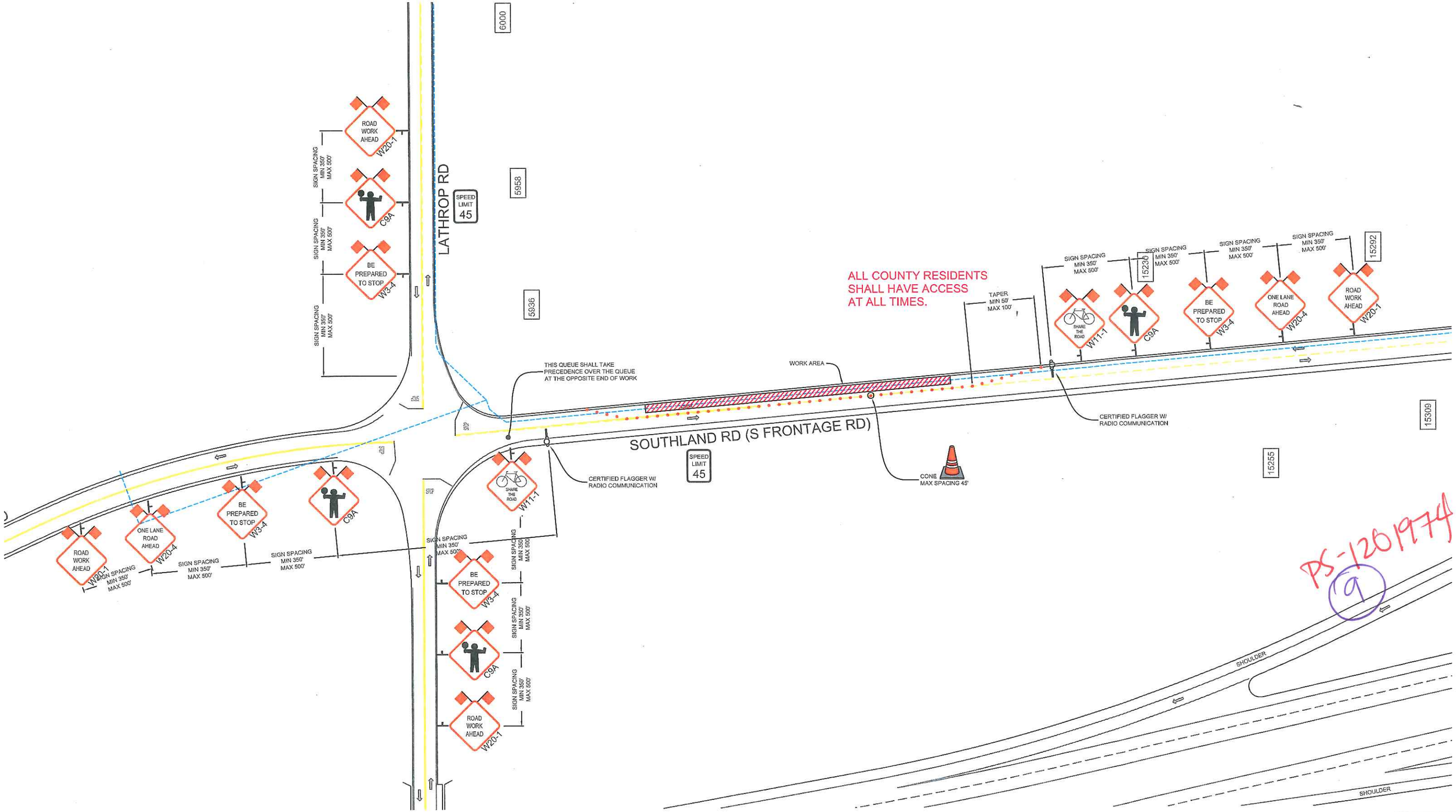

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SHEET NO. 7 OF 30

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10

5958

5936

15230

15292

15309

15253

15255

ALL COUNTY RESIDENTS
SHALL HAVE ACCESS
AT ALL TIMES.

SPEED LIMIT 45

SOUTHLAND RD (S FRONTAGE RD)

WORK AREA

TAPER
MIN 50'
MAX 100'

SIGN SPACING
MIN 350'
MAX 500'

SHARE THE ROAD W11-1

C9A

BE PREPARED TO STOP W3-4

ONE LANE ROAD AHEAD W20-4

ROAD WORK AHEAD W20-1

CERTIFIED FLAGGER W/
RADIO COMMUNICATION

CONE
MAX SPACING 45'

SHOULDER

REVISIONS			
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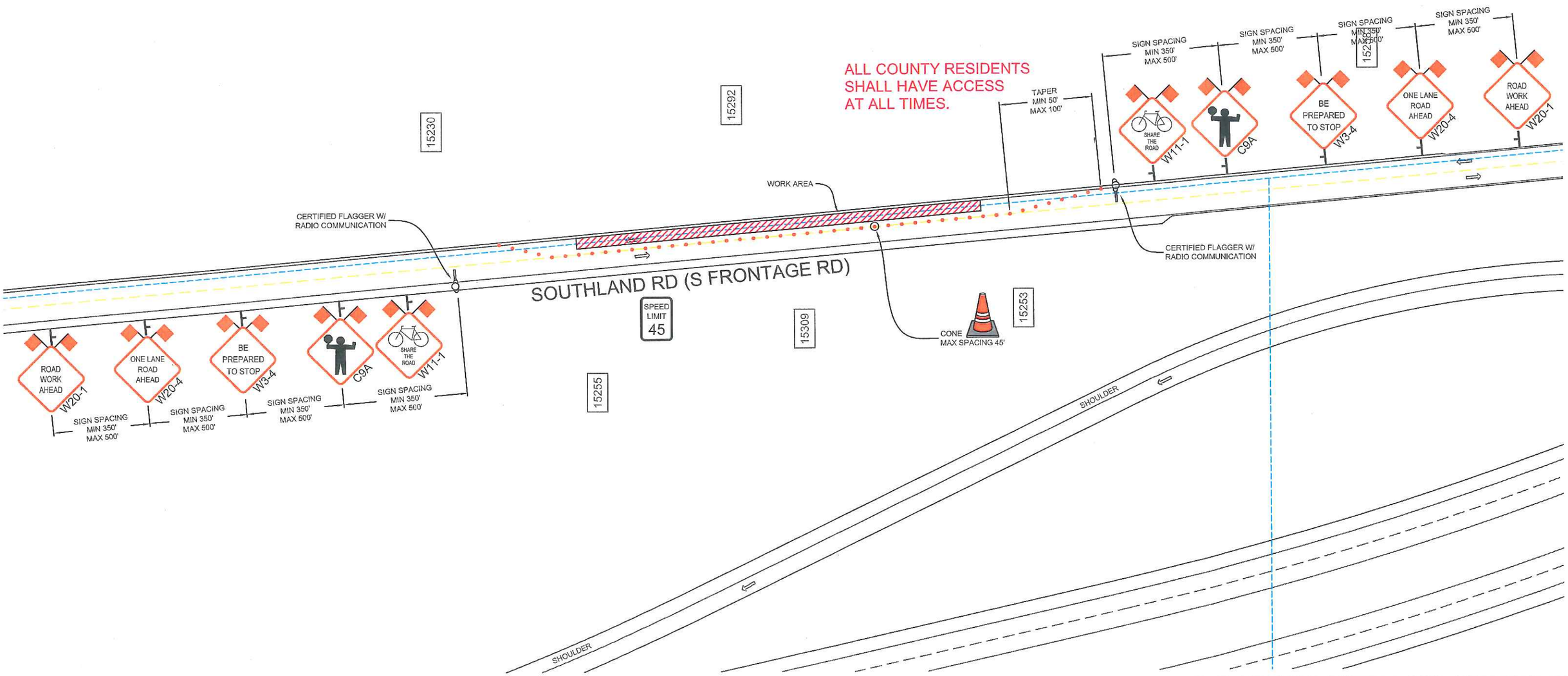

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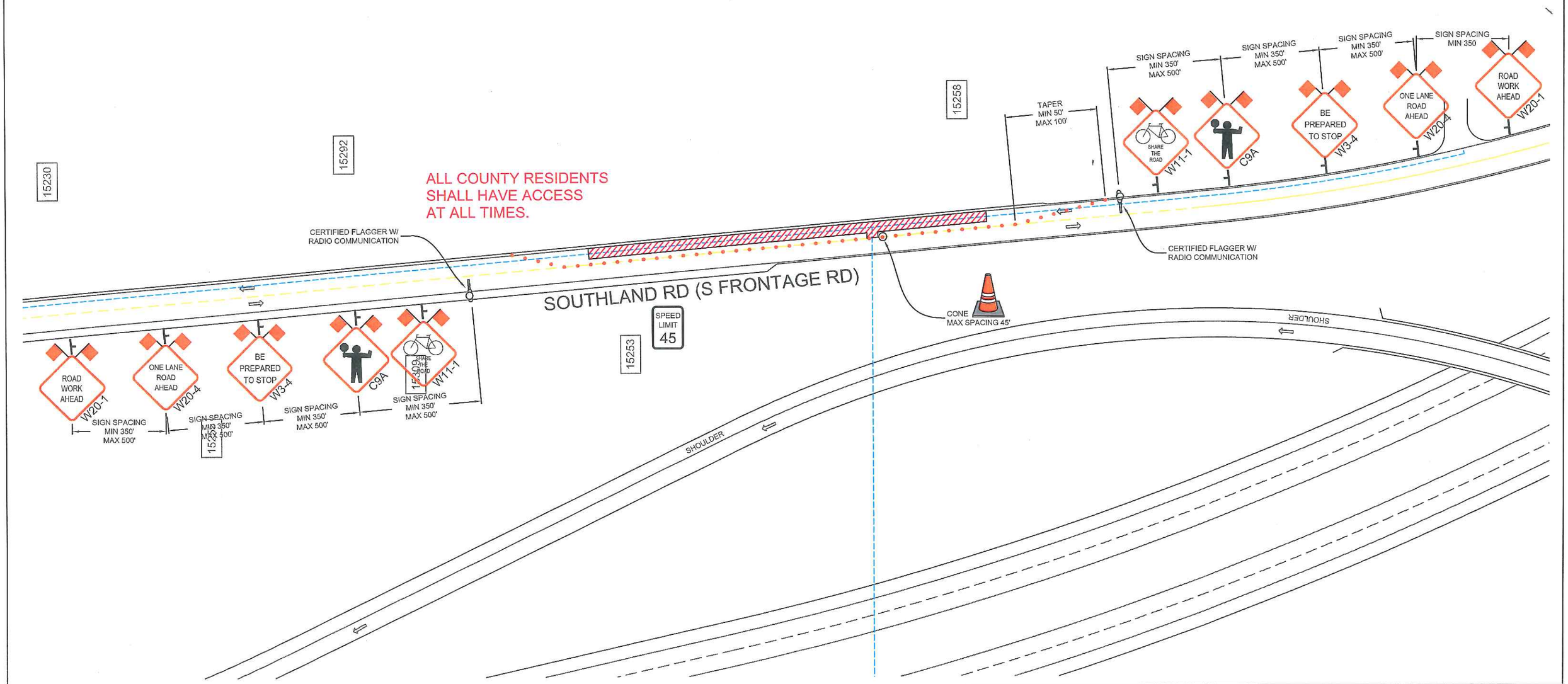

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SHEET NO. 10 OF 30

PS-120174
13

15258

ALL COUNTY RESIDENTS SHALL HAVE ACCESS AT ALL TIMES.

WORK AREA

SPEED LIMIT 45

SOUTHLAND RD

CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS OR PROVIDE/CONFIRM ALTERNATE MEANS OF PASSAGE.

DWY

CERTIFIED FLAGGER W/ RADIO COMMUNICATION

CERTIFIED FLAGGER W/ RADIO COMMUNICATION

CONE MAX SPACING 45'

SIGN SPACING MIN 350' MAX 500'

SHARE THE ROAD W11-1

C9A

BE PREPARED TO STOP W3-4

ONE LANE ROAD AHEAD W20-4

ROAD WORK AHEAD W20-1

15309

15258

SHOULDER

SHOULDER

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14

15292

ALL COUNTY RESIDENTS SHALL HAVE ACCESS AT ALL TIMES.

CONE
MAX SPACING 45'

CERTIFIED FLAGGER W/ RADIO COMMUNICATION

CERTIFIED FLAGGER W/ RADIO COMMUNICATION

SIGN SPACING MIN 350' MAX 500'

SIGN SPACING MIN 350' MAX 500'

SIGN SPACING MIN 350' MAX 500'

15292

SIGN SPACING MIN 350' MAX 500'

SHARE THE ROAD W11-1

C9A

BE PREPARED TO STOP W3-4

ONE LANE ROAD AHEAD W20-4

ROAD WORK AHEAD W20-1

SOUTHLAND RD (S FRONTAGE RD)

SPEED LIMIT 45

WORK AREA

TAPER
MIN 50'
MAX 100'

ROAD WORK AHEAD W20-1

ONE LANE ROAD AHEAD W20-4

15309

BE PREPARED TO STOP W3-4

C9A

SHARE THE ROAD W11-1

15255

SIGN SPACING MIN 350' MAX 500'

SIGN SPACING MIN 350' MAX 500'

SIGN SPACING MIN 350' MAX 500'

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SHOULDER

SHOULDER

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