COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.0. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: **PS-1502354**
Date Issued: 08/25/2015
Start Date: 09/01/2015
Exp. Date: 11/01/2015
Project No: PWP730052
Quad: NE

UE/CR/PM NO:31014512

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - SACRAMENTO
2730 GATEWAY OAKS DRIVE
SACRAMENTO, CA 95833

Encroachment Type:

Bore (over 12 inch Dia)			

Location:
E/S N TULLY RD S/O BAKER RD

In compliance with your request of **08/25/2015**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

Traffic Control Per MUTCD

FORMS:

SS/WW, R-29		

Est. Permit Fee: $2,577.00

MIKE SELLING, Deputy Director
Department of Public Works

By: _____
Permit Section

WHITE	-Permittee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:
   STREETS AND HIGHWAYS CODE
   1. Division 1, Chapter 3
   2. Division 2, Chapter 2, Section 942
   3. Division 2, Chapter 4, Section 1126
   4. Division 2, Chapter 5.5 and Chapter 6

   SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.

4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.

5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.

7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.

8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.

9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.

10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.

11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.

12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.

13. The Permittee is responsible for the preservation of survey monuments within the work herein permitted. If any are disturbed, the Permittee is required to tie out each location and re-establish them after completion of work, using a licensed land surveyor. A corner record must be filed in accordance with state law for any re-set monuments.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 7/13/15

To: San Joaquin County
Department of Public Works

PG&E - JASON BURKE
(Applicant Name)

850 STILLWATER RD
(Mailing Address)

WEST SACRAMENTO, CA, 95605
(City, State, Zip Code)

916-760-1947
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB # 730052 REF #
APN CR #
EXP. DATE 11-1-15
VALID 9-1-15 TO 11-1-15 DRIVEWAYS:
STREET Tully Rd *
AREA Linden QUAD NE *
TYPE Bore *
FORMS SSWW R29
NOTES

Sketch (Detailed plans may be submitted)

REFER TO ATTACHED SKETCH & TRAFFIC CONTROL PLANS

pm# 31014512

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the EAST side of N TULLY RD approximately 1000N & 2600S feet/mile of BAKER RD, LINDEN, by performing the following work (description of work): PG&E TO RECONDUCTOR THE POWER POLES ON THE E/S OF N TULLY RD FROM APPROXIMATELY 1000' N/O BAKER RD TO THE END OF N TULLY RD APPROXIMATELY 2600' S/O BAKER RD. 6 POLES WILL BE REPLACED AS PART OF THE RECONDUCTOR PROJECT.

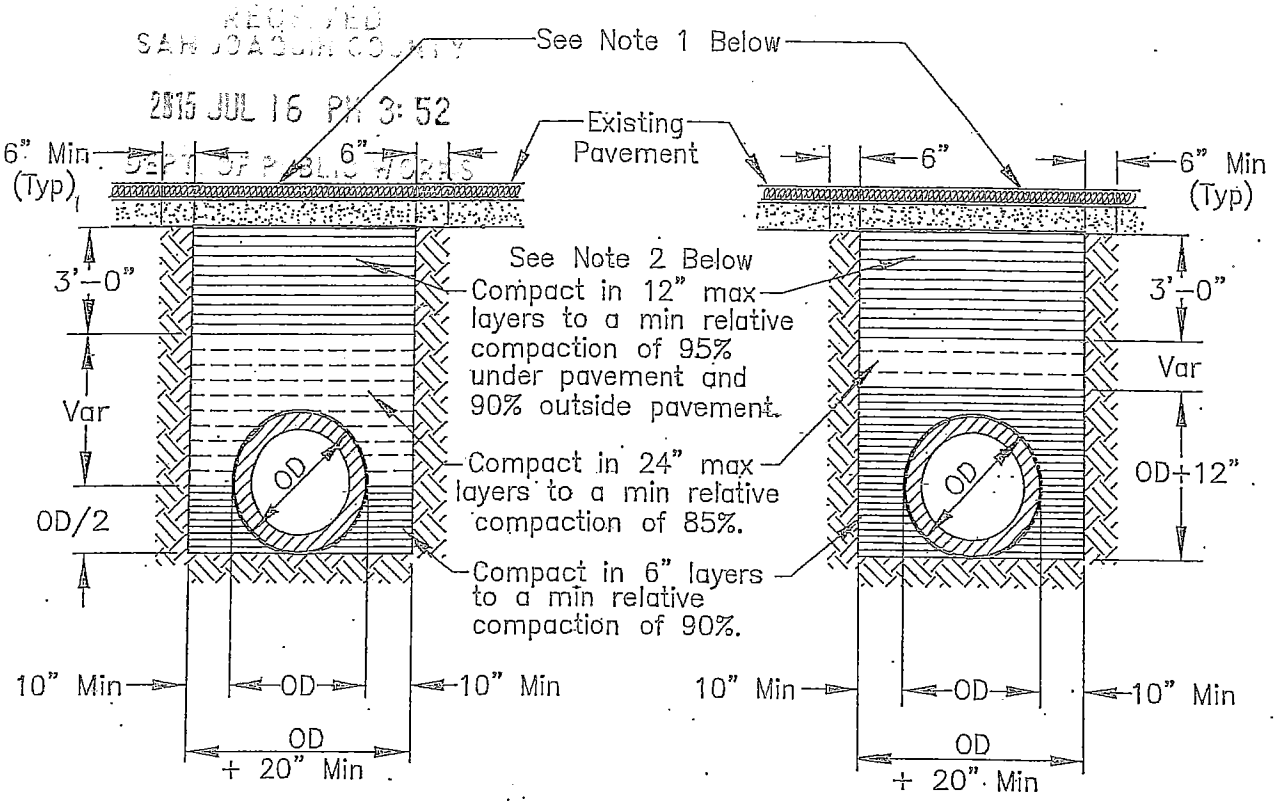
Work will commence on or about 9/1/15 for approximately 2 MONTHS days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Jason M. Burke - ELECTRIC ESTIMATOR
Signature of Applicant - Title

7/13/15
Date

RECEIVED
SAN JOAQUIN COUNTY
2015 JUL 16 PM 3:52
DEPT OF PUBLIC WORKS



RIGID CONDUIT

FLEXIBLE CONDUIT

NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.

Public Works San Joaquin County
Working for YOU

TYIPCAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by: Thomas M. Flow

No.	Revision Description	Date

Std. Dwg. No. R-29

INSTALL	EXISTING	DESCRIPTION
—P—P—		3-2AR OH CONDUCTOR
	—2J—	3-6C & 3-4AR OH CONDUCTOR
X	O	SOLELY OWNED POLE
		SOLELY OWNED ANCHOR
X	◑	JOINTLY OWNED POLE
		JOINTLY OWNED ANCHOR
•	•	RISER
	X	CUTOUT - FUSED AS SHOWN
		COMBO FUSE/DISCONNECT
▲	△	1 PHASE OH TRANSFORMER
▲	△	3 PHASE OH TRANSFORMER
F.I.		OVERHEAD FAULT INDICATORS

Underground Service Alert

Call: TOLL FREE

811

TWO WORKING DAYS BEFORE YOU DIG

NO APPARENT PG&E GAS CONFLICTS FOR THIS PROJECT
GAS PLATS: 2949G5

PROJECT CONDITIONS STAMP

Type(s) of Work:
☐ New Business
☒ PG&E Maintenance & Construction

Project Conditions:
☐ NONE APPARENT (if project design changes, contact ADE)
or
☐ CONDITIONS APPLY:
☐ PERMITS ☐ TAILBOARD ☐ OTHER
(Provide additional information on line below)

BY: SIGNATURE, NAME, [CORPORATE ID], DATE

FIRE AREA NON-EXEMPT EQUIPMENT STAMP

Identify the Subject Pole Fire Area District (per Doc. #072148 and Utility Bulletin TD-2301B-004):
☐ FRA ☐ SRA ☒ LRA
☐ OWF ☐ UWF

Per the Power Line Fire Prevention Field Guide, the equipment being installed is:
☒ Exempt ☐ Non-Exempt ☐ N/A

☐ If Installing Non-Exempt Equipment in a Fire Area, verify in SAP that the the CN-25 has been activated.

By: Signature, Name [Corp ID], Date

N

RAPTOR CONSTRUCTION ZONE

T-14
MORMON B1-1101
SSD=SW13397
INSULATION DISTRICT(B)
NON-CORROSION AREA
LIGHT LOADING
VOLTAGE CLASS(2)
SURGE DISTRICT(3)
FIRE AREA(LRA)

PRELIMINARY SKETCH
FOR SAN JOAQUIN COUNTY PERMIT

SAN JOAQUIN COUNTY PERMIT DIMENSIONS:
ALL POLES ON E/S OF N TULLY RD
DISTANCE FROM POLES TO CENTER LINE = 17'
DISTANCE FROM POLES TO FOG LINE = 7'
LOC 5: DISTANCE FROM POLE TO CL OF BAKER RD = 20'
LOC 5: DISTANCE FROM POLE TO FOG LINE = 10'

N TULLY RD

E BAKER RD

DIRT RD

OLD RAILROAD

1 — 50-4
REPLACE FRAMING
INSTALL DDE FRAMING (WIRE CHANGE)
INSTALL RAPTOR COVERS ON DE CENTER PHASES
INSTALL PRI DE DG=5/16"(15M-16'LD)
SET UP TIME RQ'D
Sap #:102132277

2 — 50/55-4
(JP-1) 48-20, 22-4
SET POLE 7' DEEP
SET UP TIME RQ'D
TRANSFER 25KVA TX (BLUE TAG)
PRI DE SPAN GUY=7/32"
SEC DE DG=7/32"(15M-21'LD)
TREE TRIMMING AROUND POLE NEEDED
Sap #:102132271

3 — 50-5
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CTR PH
SET UP TIME RQ'D
Sap #:102132267

4 — 50-5
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CENTER PHASE
SET UP TIME RQ'D
Sap #:102132265

2273BP 2273

5 — 50/50-3
CATV @ 24'
SET POLE 7' DEEP
2 PERSON FLAGGING RQ'D
Sap #:103194400

10537 523

6 — 40/50-4
CATV @ 24'
SET POLE 7' DEEP
TRANSFER CUTOUTS
SET UP TIME RQ'D
Sap #:103219115

10535

7 — 40-5
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CENTER PHASE
SET UP TIME RQ'D
Sap #:102133122

8 — 45-5
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CENTER PHASE
SET UP TIME RQ'D
Sap #:102133123

9 — 45/50-4
CATV @ 23'
SET POLE 7' DEEP
SET UP TIME RQ'D
Sap #:102133124

29
INSTALL 7,680' OF 2AR CONDUCTOR
REMOVE 3,910' OF 6C CONDUCTOR
REMOVE 3,770' OF 4AR CONDUCTOR

10 — 50/50-4
CATV @ 23'
SET POLE 7' DEEP
SET UP TIME RQ'D
Sap #:102133125

11 — 50-4
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CENTER PHASE
SET UP TIME RQ'D
Sap #:103108681

12
COORDINATE #
318194555568
LOADING DISTRICT
SUMMER INTERIOR
TX SIZE - 15
KVA 16 - 7
KVA 36 -
% L.F. - 7

12 — 50/55-4
CATV @ 23'
SET POLE 7' DEEP
TRANSFER 15KVA TX (BLUE TAG)
TRANSFER 1/0A OH SV
MINOR TREE TRIMMING AROUND POLE
SET UP TIME RQ'D
Sap #:102133127

15
COORDINATE #
318196455524
LOADING DISTRICT
SUMMER INTERIOR
TX SIZE - 15
KVA 16 - 7
KVA 36 -
% L.F. - 32

13 — 55-3
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CTR PH
SET UP TIME RQ'D
Sap #:102133131

15 — 50/55-4
(JP-2) 48-13, 29-11
SET POLE 7' DEEP
REPL 10KVA TX W/ 15KVA TX
TRANSFER 1/0A OH SV
Sap #:102133134

LOC 15: JOINT FIELD MEET TO TRANSFER PT SERVICE TO NEW POLE

14 — 55-3
REPLACE PRIMARY FRAMING
SET UP TIME RQ'D
Sap #:102133133

16 — 50-4
REPLACE PRIMARY FRAMING
INSTALL DE DG=5/16"(15M-15'LD)
Sap #:102133135

17 — 50-2
REPLACE FRAMING
INSTALL KIT C-417-1
DWG# 066196, TABLE 2
INSTALL RAPTOR COVER ON CTR PH
SET UP TIME RQ'D
Sap #:102133144

24 — NEW 50-4
INTERSET NEW POLE TO MAINTAIN 350' SPAN LENGTHS
SET POLE 7' DEEP

21
REPLACE DE CLAMPS & INSULATORS
REPLACE ANCHOR & DOWN GUY
PRI DE DG=3/8"(15M-18'LD)
Sap #:102133148

20 — 45/50-4
SET POLE 7' DEEP
Sap #:102133147

19 — 45-4
REPLACE INSULATORS & TIES
Sap #:102133146

18 — 45/50-4
SET POLE 7' DEEP
TOP DE DG=7/32"(15M-22'LD)
BOTTOM DE DG=5/16"(22'LD)
Sap #:102133145

22 — 40/50-4
SET NEW POLE 115' WEST
SET POLE 7' DEEP
Sap #:102133150

23 — 40/50-4
SET NEW POLE 230' WEST
SET POLE 7' DEEP
Sap #:102133151

25 — 40/50-4
SET POLE 7' DEEP
TOP DE DG=7/32"(15M-22'LD)
BOTTOM DE DG=5/16"(22'LD)
Sap #:102133152

26 — 40-4
REPLACE FRAMING
DON'T LOWER X-ARM -
DUE TO GRND CLEARANCE
EXISTING DG & ANCHOR OK
Sap #:102133153

27 — 40-5
REPLACE FRAMING
DON'T LOWER X-ARM -
DUE TO GRND CLEARANCE
Sap #:102133154

28 — 40/50-4
SET POLE 7' DEEP
TRANSFER 150KVA TX (BLUE TAG)
REPLACE 1/0A QPX OH SV
TOP PRI DE DG=7/32"(15M-22'LD)
BOTTOM PRI DE DG=5/16"(22'LD)
Sap #:102133155

CONSTRUCTION SKETCH
MORMON 1101 RECONDUCTOR
N TULLY RD, S/O BAKER RD
LINDEN, CA

NO.	DATE	DESCRIPTION	ORDER #	DWN	CHKD	SUPV	APVD	BY

REVISIONS

EST: JASON (J5BF) 916.835.7906
ADE: SANDRA (SLJ3) 916.760.5311
SUPV: CHARLES (CKM7) 916.760.1954
REP: JAIME (J1PE) 209.401.5911
PLNR: SCOTT (SZC1) 209.942.1406
SCALE: NTS
DATE: 7/2/15

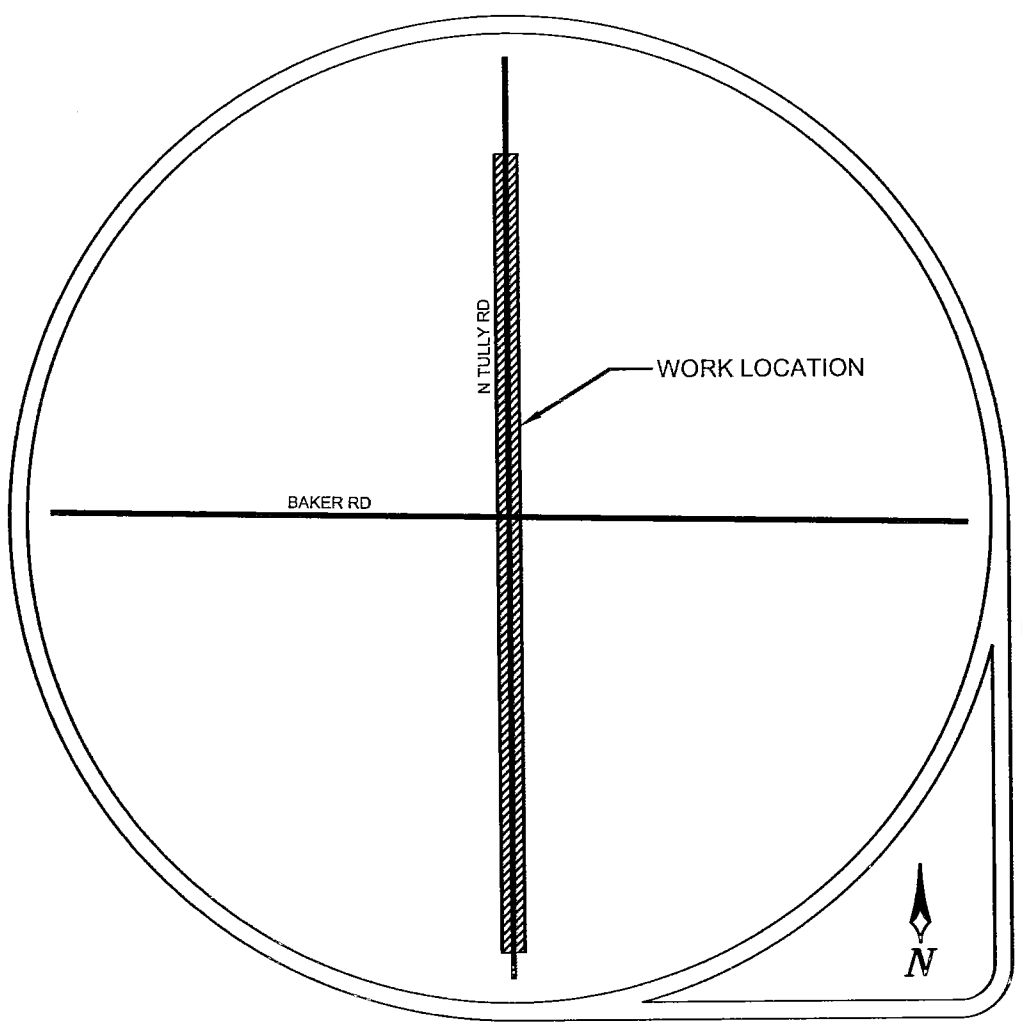
ENGINEERING AND PLANNING DEPT.
850 STILLWATER RD
WEST SACRAMENTO, CA
PHONE #: FAX #:
PG&E PACIFIC GAS AND ELECTRIC COMPANY

CO:
SD:
NOTIF.: 107081027
Other:
SHT: 1 OF 1 SHEETS
PM: 31014512
REV.

TRAFFIC CONTROL PLANS
MORMON 1101 RECONDUCTOR
N TULLY RD & BAKER RD
LINDEN, CALIFORNIA

SAN JOAQUIN COUNTY

PM31014512



LOCATION MAP

CONTRACTOR

Pacific Gas and Electric Company

CONTACT JASON BURKE

PHONE# (916) 760-1947

CONSULTANT

ALMENDARIZ INC

ALMENDARIZ CONSULTING, INC.
1136 SUNCAST LN STE 9
EL DORADO HILLS, CA 95762
(888) 306-1211 OFFICE
(888) 768-7022 FAX
CA C31 LIC #979806

REVISIONS			
REV.	DESCRIPTION	REV DONE BY	DATE

PROJECT NO. 150731
DRAWN JSH
DESIGNED JSH
CHECKED CAA

DATE
JULY 10, 2015

SHEET NO. 1 OF 6

GENERAL NOTES

1. NOTHING 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. SIGN PANEL SIZES: 36"X36" MIN. ON ROADS <50mph, 48"x48" ON ROADS ≥ 50mph.
5. SIGNS ARE SPACED PER THE CA 2014 MUTCD.
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 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. CONTRACTOR TO MAKE SURE ALL TRAFFIC CONTROL EQUIPMENT MEETS ALL AGENCY REQUIREMENTS.
9. REMOVE ALL CONFLICTING MARKINGS FOR LONG TERM OPERATIONS (3 DAYS OR LONGER).
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 85% TILE/POSTED SPEED LIMITS/OR PRIMA FACIE.
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 COUNTY AGENCY.(AFFECTS NOTES #20 THRU 22, BELOW)
13. PEDESTRIAN ACCESS MUST BE MAINTAINED AS PER THE CA 2014 MUTCD STANDARDS AND ADA REQUIREMENTS.
14. C30 SIGNS ARE PERMITTED IN BUFFER AREAS.
15. SIGN SPACING IS PROVIDED IN THE CA 2014 MUTCD EDITION, PART 6. TRAFFIC SPEEDS ARE BASED UPON RADAR MEASUREMENTS OF MOTORISTS. THE MUTCD ALLOWS FOR A "RANGE" IN SIGN PLACEMENT AND WILL BE PROVIDED BY DOT. THE 85% 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 COUNTY AGENCY 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 2014 MUTCD" 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 BELOW 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 DISRUPTED ROUTE. WHERE IT IS FEASIBLE TO PROVIDE A SAME-SIDE ALTERNATE CIRCULATION PATH AND PEDESTRIANS WILL BE DETOURED, SECTION 6D.02 OF THE CA 2014 MUTCD 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 COUNTY WOULD NOT BE LIABLE (HOLD HARMLESS) 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. A 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 - 2014 MUTCD

Posted Speed	Taper (L) Formula	Buffer Space	Minimum Taper Lengths 10' Offset L Merge	10' Offset 1/2 L Shift	10' Offset 1/3 L Shoulder	11' Offset L Merge	11' Offset 1/2 L Shift	11' Offset 1/3 L Shoulder	12' Offset L Merge	12' Offset 1/2 L Shift	12' Offset 1/3 L Shoulder	Maximum *Cone Spacing @ Taper	@ Tangent	@ Conflict	Sign Spacing
25	$L = \frac{WS^2}{60}$	155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	50'	12'	100' - 200'
30		200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	60'	15'	120' - 240'
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	70'	17'	140' - 280'
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	80'	20'	160' - 320'
45	L = WS	360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	90'	22'	360' - 540'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	100'	25'	400' - 600'
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	55'	110'	27'	440' - 660'
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	60'	120'	30'	480' - 720'
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	65'	130'	32'	520' - 780'
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	70'	140'	35'	560' - 840'

Both are based on.
1.) 85th % Tile or if not available, then use 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 conditions, etc..

CA MUTCD 2014 TABLE 6C-1

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

ROAD TYPE	DISTANCE BETWEEN SIGNS A	B	C
URBAN (LOW SPEED) - 25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (LOW SPEED) - MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET
URBAN (HIGH SPEED) - MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY / FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

REVISIONS			
REV.	DESCRIPTION	REV DONE BY	DATE

PROJECT NO. 150731
DRAWN JSH
DESIGNED JSH
CHECKED CAA

DATE
JULY 10, 2015

TYPICAL 2-WAY FLAGGER OPERATION

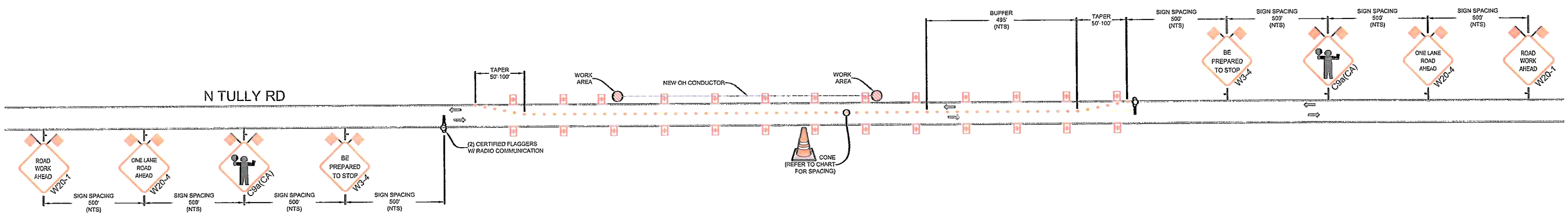
FOR USE ON N TULLY RD

SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 28" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
- NO PARKING SIGN ON TYPE I BARRICADE TO BE PLACED 48 HOURS IN ADVANCE
- FLASHING ARROW BOARD (FAS)

NOTES

- CONTRACTOR SHALL MAINTAIN/PROVIDE ACCESS TO ALL DRIVEWAYS AFFECTED BY THE WORK AREA.
- CONTRACTOR SHALL ASSIGN A WORKER TO ASSIST PEDESTRIANS AROUND WORK AREA.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 4' PATH OF TRAVEL FOR PEDESTRIANS.
- MAXIMUM CHANNELIZING DEVICE SPACING FOR ALL SPEEDS ON ONE-LANE/TWO-WAY TAPERS IS 20'.
- MAXIMUM CHANNELIZING DEVICE SPACING FOR ALL SPEEDS ON DOWNSTREAM TAPERS IS 20'.
- W20-1 (ROAD WORK AHEAD) SIGNS SHALL BE PLACED ON ALL SIDE STREETS BETWEEN THE WORK AREA AND THE FIRST SIGN ENCOUNTERED BY TRAFFIC ON THE HWY.



100 0 50 100

CONST. HOURS: 8:00AM-3:00PM MON-FRI

REVISIONS			
REV	DESCRIPTION	REV DONE BY	DATE

PM31014512

ROADS < 50 MPH: MINIMUM 36" SIGN PANELS (48" SIGNS MAY BE USED)

ROADS ≥ 50 MPH: MINIMUM 48" SIGN PANELS

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CA C31 LIC #979806

LOCATION N TULLY RD & BAKER RD, LINDEN, CALIFORNIA

Pacific Gas and Electric Company

CONTACT JASON BURKE
PHONE# (916) 760-1947

PROJECT NO. 150731
DRAWN JSH
DESIGNED JSH
CHECKED CAA

DATE
JULY 10, 2015

N

SHEET NO. 3 OF 6

SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 28" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
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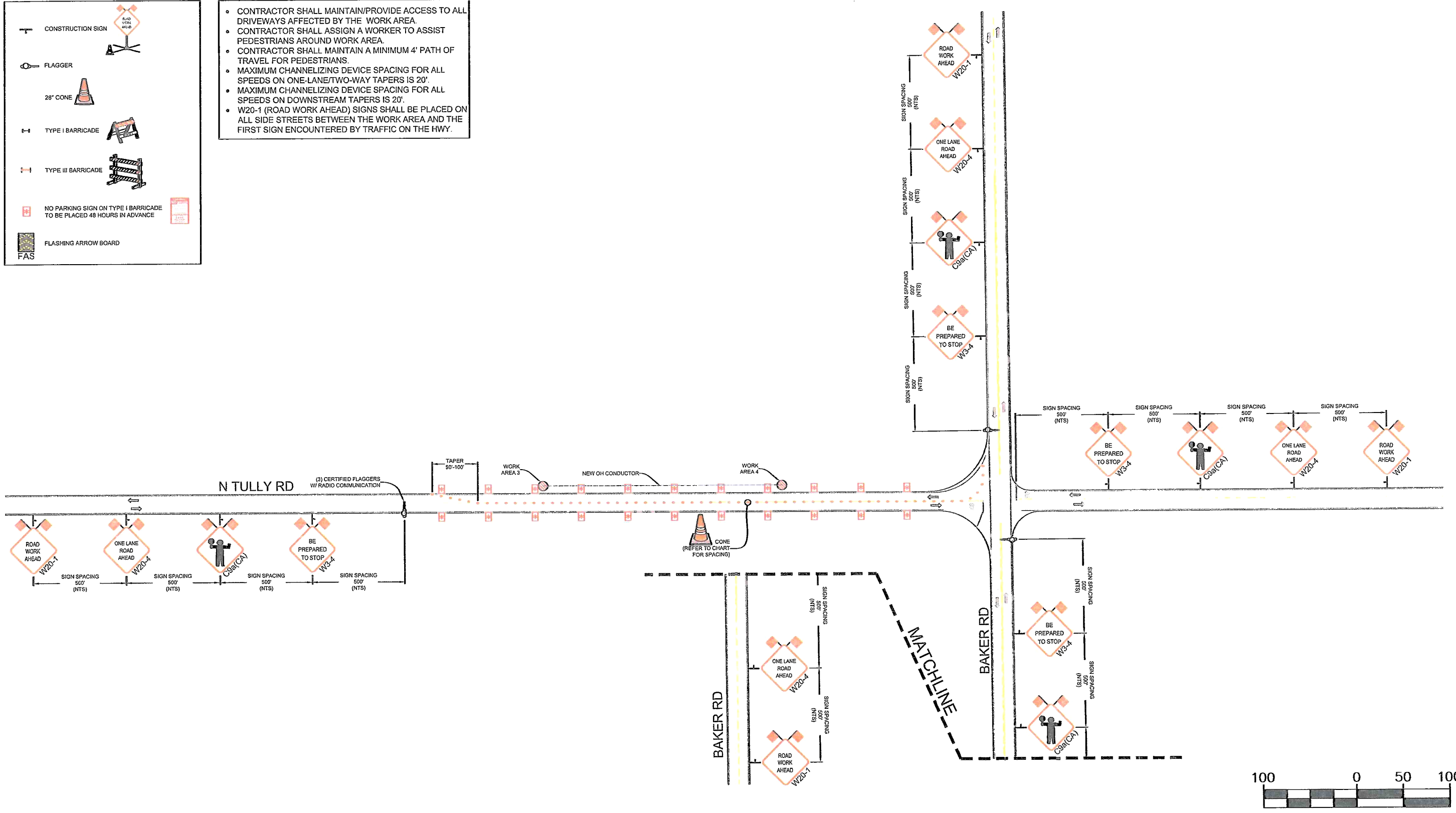

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JULY 10, 2015

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SYMBOL LEGEND

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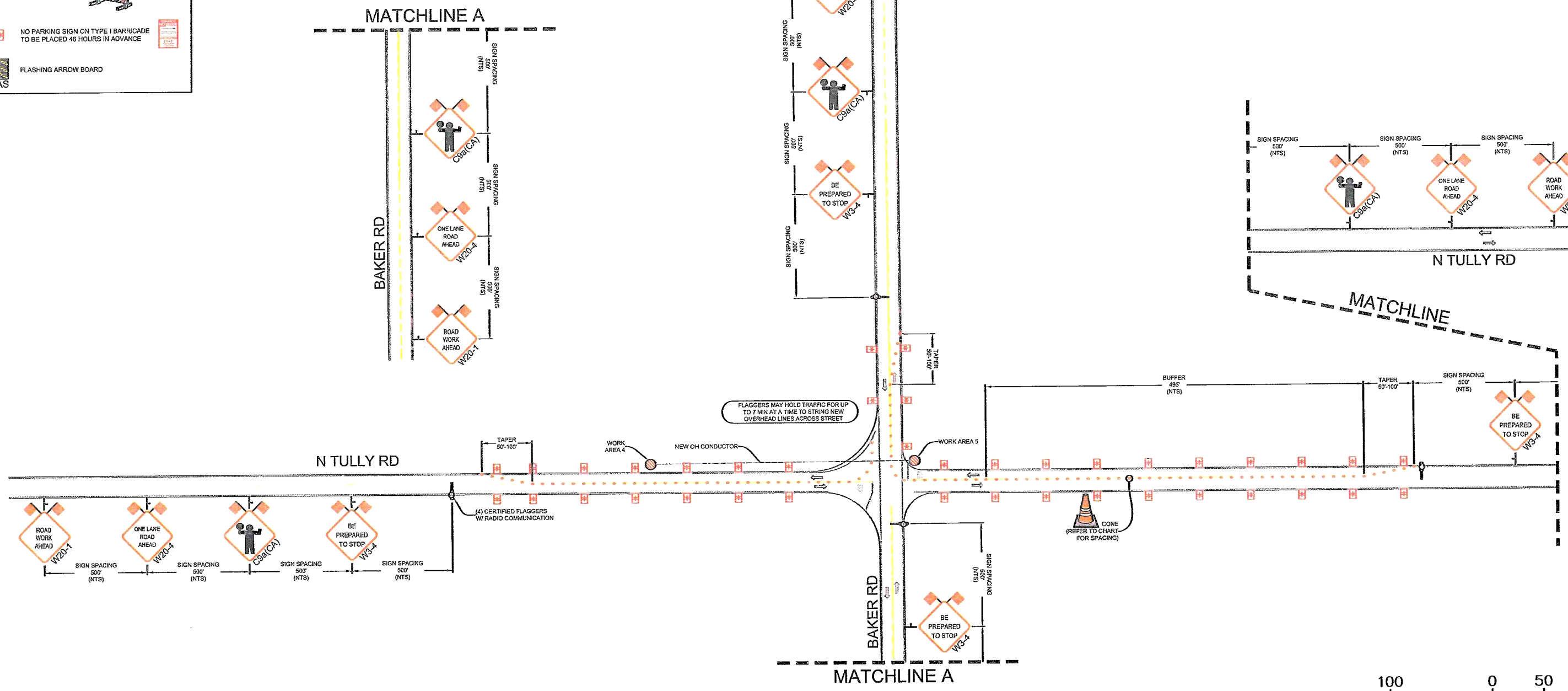

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PROJECT NO. 150731
DRAWN JSH
DESIGNED JSH
CHECKED CAA

DATE JULY 10, 2015

SHEET NO. 5 OF 6

SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 28" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
- NO PARKING SIGN ON TYPE I BARRICADE TO BE PLACED 48 HOURS IN ADVANCE
- FLASHING ARROW BOARD (FAS)

NOTES

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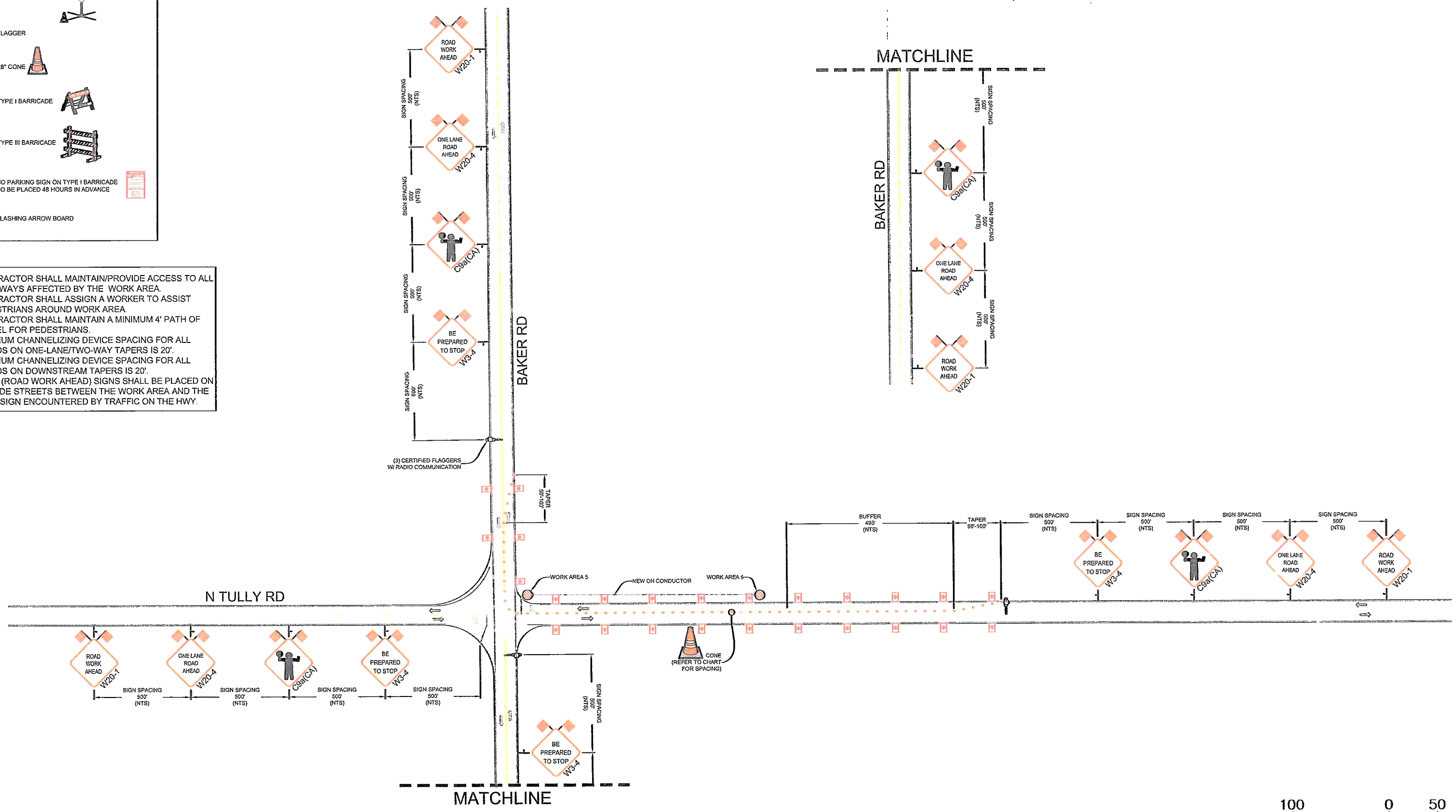

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SHEET NO. 6 OF 6