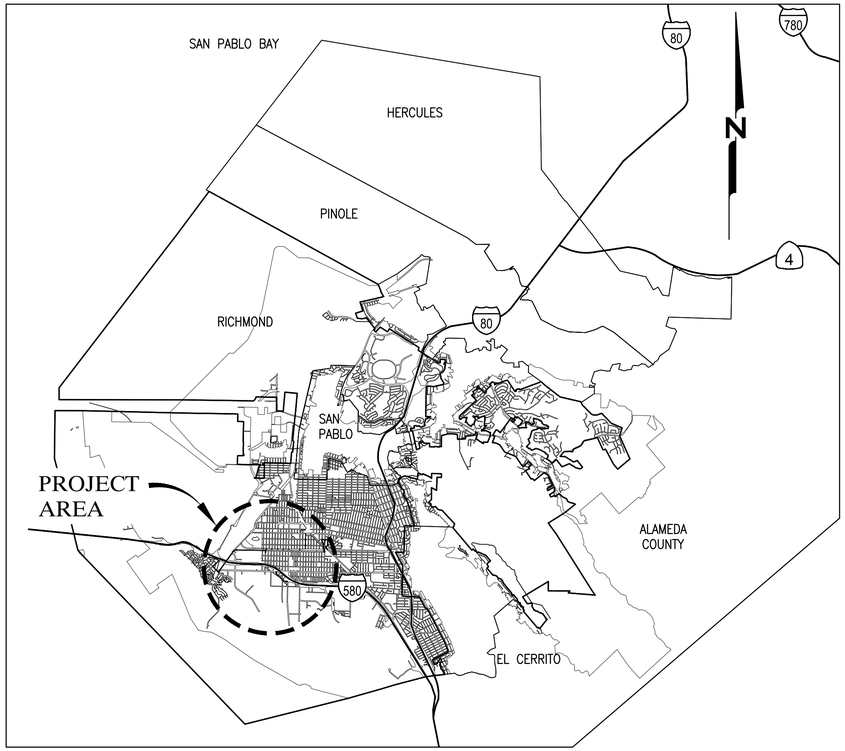
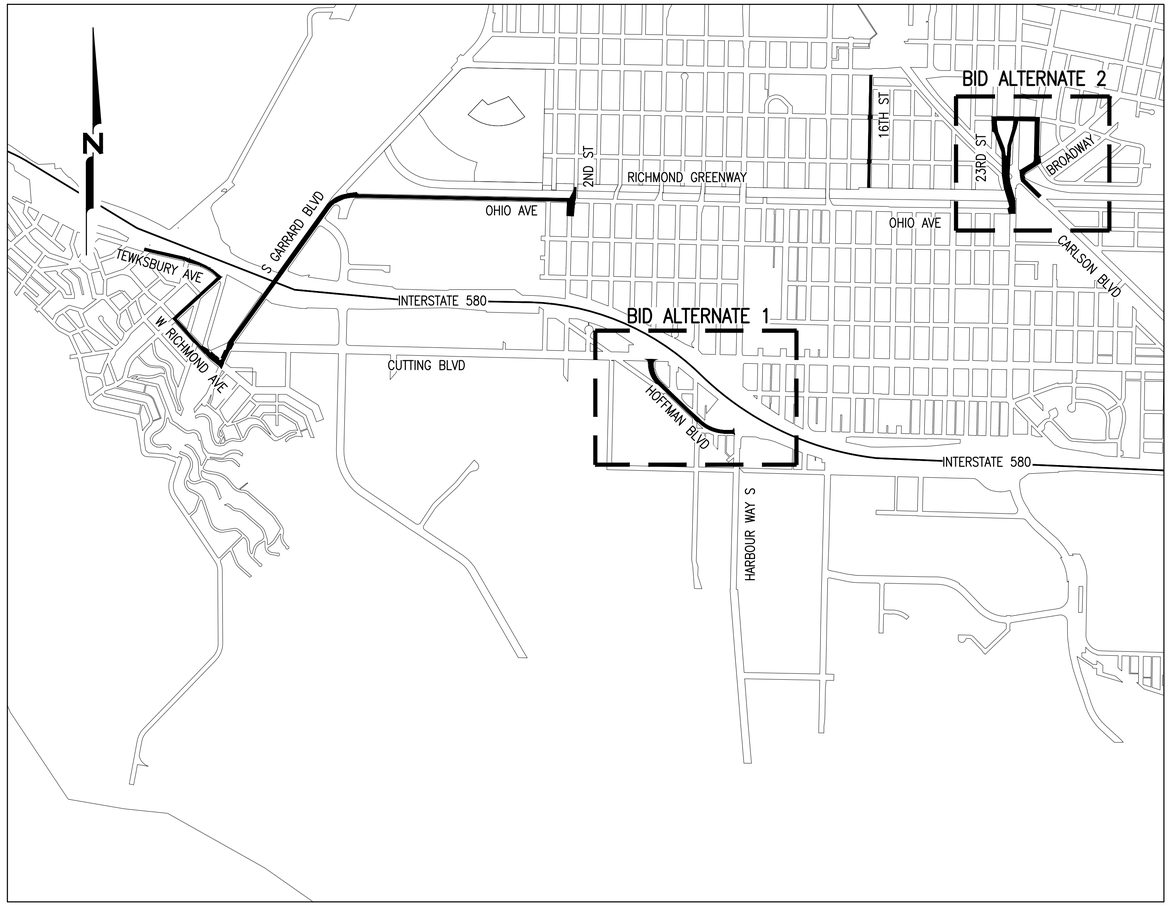
SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

SHEET INDEX		
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2	G2	NOTES, LEGENDS, AND ABBREVIATIONS
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18	E1	TRAFFIC SIGNAL MODIFICATION PLAN 1
19	E2	TRAFFIC SIGNAL MODIFICATION PLAN 2
20	E3	TRAFFIC SIGNAL MODIFICATION PLAN 3

PREPARED UNDER THE DIRECTION OF: J. Ryan Shafer — 12/17/18

JOHN RYAN SHAFER, P.E.
PRINCIPAL, NCE

APPROVED BY: _____ DATE _____

YADER A. BERMUDEZ, P.E.
CITY ENGINEER AND CAPITAL IMPROVEMENTS DIRECTOR

BID SET
PLANS
DATE: 12-17-18

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Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER — FRANK G. HAIDINGER — NO. C 64725 — EXP. 06/30/19 — CIVIL — STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO: 568.45.55
DESIGNED BY: JRS
DRAWN BY: MDG
CHECKED BY: FGH DATE: 12/13/18
DATE: 12/17/18

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SHEET TITLE
TITLE SHEET

DRAWING G1

SHEET 1 OF 20

File: \\ncei\Projects\Active Projects\Richmond City – A568\568.45.55 – Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\G1-G2.dwg | Layout: G1 | Printed Dec 19, 2018 @ 1:48pm | 8.0.mg.22.0s (LMS Tech)

GENERAL NOTES

1. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. WORK NOT CONFORMING TO THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY.
2. SPECIFIC NOTES AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATIONS, ELEVATIONS, ETC. OF EXISTING FACILITIES AND TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY FIELD CONFLICTS.
4. ALL MATERIALS AND WORKMANSHIP SHALL FULLY CONFORM WITH THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITY OF RICHMOND, THE LATEST COUNTY OF CONTRA COSTA PUBLIC WORKS STANDARD PLANS, AND THE 2015 CALTRANS STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED. STANDARD PLANS ARE AVAILABLE AT THE OFFICE OF THE ENGINEER.
5. CONTRACTOR SHALL MEET WITH CITY PRIOR TO START OF CONSTRUCTION. 48 HOURS NOTICE TO THE ENGINEER IS REQUIRED ON ALL INSPECTIONS.
6. CONTRACTOR IS RESPONSIBLE TO MAKE ALL ARRANGEMENTS FOR SITE INSPECTIONS AND ENSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF RICHMOND AND 2015 CALTRANS STANDARD SPECIFICATIONS ARE FOLLOWED PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION WORK.
7. CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
8. CONSTRUCTION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY AND INSPECTION REQUESTS SHALL BE LIMITED TO NORMAL CITY BUSINESS HOURS: 8:00 A.M. TO 5:00 P.M., MONDAY THROUGH FRIDAY. ARRANGEMENTS FOR ANY OVERTIME INSPECTION SERVICES AND PAYMENTS OF FEES FOR SAME SHOULD BE MADE 48 HOURS IN ADVANCE AND ARE SUBJECT TO INSPECTION AVAILABILITY AND APPROVAL BY THE ENGINEER.
9. DUST CONTROL DURING ALL PHASES OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN GOOD HOUSEKEEPING WITHIN THE CONSTRUCTION AREA AND STAGING AREA.
10. WATER FOR DUST CONTROL AND USE FOR COMPACTION MAY BE PURCHASED FROM THE APPROPRIATE AGENCY PRIOR TO THE START OF ANY WORK, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR ANY FEES OR DEPOSITS.
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED ROUTE(S) FOR ALL CONSTRUCTION TRAFFIC RELATED TO THE PROJECT. UPON APPROVAL, THE CONTRACTOR SHALL STRICTLY ADHERE TO THAT ROUTE(S) ONLY, UNLESS WRITTEN PERMISSION IS OBTAINED TO CHANGE THE ROUTE(S). IN ADDITION TO THE CONTRACTOR'S PROPOSED ROUTE(S), A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER.
12. BIDDERS SHOULD NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE WORK AREA. AS PART OF THEIR PRE-BID INSPECTION, BIDDERS SHALL NOTE THE TYPE AND LOCATION OF OVERHEAD UTILITIES IN THE PROPOSED WORK AREA. BIDDER'S PRICE SHALL INCLUDE PROVISIONS FOR WORKING IN AREAS WHERE UTILITIES EXIST AT THE TIME OF BIDDING, AND NO ADDITIONAL COMPENSATION IS ALLOWED.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.
14. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (U.S.A.) 800-227-2600 (OR DIAL 811), TWO (2) WORKING DAYS PRIOR TO START OF ANY EXCAVATION OR DEMOLITION OF IMPROVEMENTS.
15. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITIES TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION SO THAT LINES CAN BE MARKED. CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION OR DEMOLITION, PARTICULARLY IN LOCATIONS WITH UTILITIES THAT WILL REMAIN IN SERVICE.
16. ANY DAMAGE TO THE EXISTING FACILITIES INCLUDING TREES, LANDSCAPING, IRRIGATION, FENCES, WALLS, SIDEWALK, MAILBOXES, UTILITIES, AND OTHER PAVEMENT SURFACES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RESTORE ANY AND ALL PAVEMENT AND OTHER FACILITIES OUTSIDE LIMITS OF WORK AFFECTED BY THE CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEOTAPE OR DOCUMENT EXISTING CONDITIONS PRIOR TO START OF WORK TO SUBSTANTIATE ANY PREVIOUS DAMAGE, ETC.; COPIES OF WHICH SHALL BE PROVIDED TO THE ENGINEER.
17. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THEIR WORK AREA FROM DAMAGE.
18. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, AND OTHER DEVICES TO PROVIDE FOR SAFE PASSAGE OF PUBLIC VEHICULAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH CA MUTCD.
19. TYPICAL DETAILS REFERRED TO ON THESE DRAWINGS ARE FROM THE LATEST VERSIONS OF THE CITY STANDARD PLANS, CALTRANS STANDARD PLANS, AND COUNTY OF CONTRA COSTA PUBLIC WORKS STANDARD PLANS.
20. CONTRACTOR SHALL POSSESS A VALID CLASS 'A' LICENSE AT THE TIME OF AWARD OF THE CONTRACT.
21. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A 2 WEEK LOOK AHEAD SCHEDULE AT WEEKLY MEETINGS; AND DAILY SCHEDULE OF PLANNED WORK A MINIMUM OF 24 HOURS IN ADVANCE.
22. CONTRACTOR SHALL PREPARE A CONSTRUCTION PHASING PLAN AND PRESENT THIS PLAN AT THE PRE-CONSTRUCTION MEETING FOR THE ENGINEER'S APPROVAL.

LEGEND

PROPOSED FEATURES

- PROPOSED EP
- RED CURB
- 3 / D1 — DETAIL IDENTIFICATION NUMBER; NUMBER OF SHEET ON WHICH DETAIL IS LOCATED
- PORTLAND CEMENT CONCRETE BULB-OUT
- GREEN PAINT
- CURB RAMP
- CALTRANS STRIPING DETAIL NUMBER
- 22 | 50' — LENGTH OR QUANTITY OF STRIPE/SYMBOL
- 20 — KEY NOTE STRIPING
- SIGN
- WAYFINDING SIGN

EXISTING FEATURES

- CURB AND GUTTER
- PROPERTY LINE/ROW

ABBREVIATIONS

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE PLANS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
A/G	ABOVE GROUND
@	AT
APPROX.	APPROXIMATE
ASS'Y	ASSEMBLY
AVG.	AVERAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BMP	BEST MANAGEMENT PRACTICES
BOW	BOTTOM OF WALL
BSP	BLACK STEEL PIPE
BW	BOTTOM OF WALL
BVC	BEGIN VERTICAL CURVE
C&G	CURB AND GUTTER
CAMUTCD	CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
CB	CATCH BASIN
CF	CUBIC FEET
CL	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMM	COMMUNICATION
CONC	CONCRETE
CONST	CONSTRUCT
CP	CONTROL POINT
CY	CUBIC YARD
° OR DEG	DEGREE(S)
DI	DROP INLET
ø OR DIA.	DIAMETER
D.I.	DUCTILE IRON
DWG	DRAWING
DW, DWY	DRIVEWAY
EA.	EACH
EASE.	EASEMENT
E	EAST
EG	EXISTING GRADE
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
EL	ELEVATION
EVC	END OF VERTICAL CURVE
EX	EXISTING
FC	FACE OF CURB
FCA	FLANGE COUPLER ADAPTER
FH	FIRE HYDRANT
FG	FINISH GRADE
FFC	FRONT FACE CURB
FES	FLARED END SECTION
FL	FLOWLINE
FLG	FLANGED
FT or '	FOOT, FEET
FV	FLUSH VALVE
G	GAS
GV	GATE VALVE
GB	GRADE BREAK
GSP	GALVANIZED STEEL PIPE
HP	HIGH POINT
HOR	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HMAC	HOT MIXED ASPHALT CONCRETE
IN. or "	INCH
INT	INTERSECTION
IE	INVERT ELEVATION
IRR.	IRRIGATION
LT,L	LEFT
LEN	LENGTH
LF	LINEAR FEET
LFG	LANDFILL GAS
LP	LOW POINT
LS	LUMP SUM
MFGR	MANUFACTURER
MH	MANHOLE
MAX	MAXIMUM
MDD	MAXIMUM DRY DENSITY
MJ	MECHANICAL JOINT
MMA	METHYL METHACRYLATE
MI	MILE
MIN	MINIMUM
MISC	MISCELLANEOUS
MSB	MAIN SWITCH BOARD
MVC	MIDDLE OF VERTICAL CURVE
N	NORTH
NEC	NATIONAL ELECTRICAL CODES
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
# OR NO.	NUMBER
O.C.	ON CENTER
O.G.	ORIGINAL GRADE
OWS	OIL/WATER SEPARATOR
±	PLUS OR MINUS
PT.	POINT
PCC	PORTLAND CEMENT CONCRETE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
POS	POSITIVE
PSI	POUNDS PER SQUARE INCH
PL	PROPERTY LINE
PUE	PUBLIC UTILITY EASEMENT
PVI	POINT OF VERTICAL INTERSECTION
(P)	PROPOSED
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REVEG	REVEGETATION
RT,R	RIGHT
R/W, ROW	RIGHT-OF-WAY
S	SLOPE, SOUTH
SCH??	SCHEDULE XX PIPE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FOOT/FEET
SHT	SHEET
SSMH	SANITARY SEWER MANHOLE
SSCO	SANITARY SEWER CLEAN OUT
SS	SANITARY SEWER, STAINLESS STEEL
STA	STATION
STD	STANDARD
SY	SQUARE YARD
TAC	TOP OF ASPHALT
TBC	TOP BACK OF CURB
TC	TOP OF CURB
TOW	TOP OF WALL
TW	TOP OF WALL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC LINES
UGT	UNDERGROUND TELEPHONE LINES
U/G	UNDERGROUND
VC	VERTICAL CURVE
VG	VALLEY GUTTER
W	WATER
WL	WATERLINE
W	WEST
W/	WITH
WM	WATER METER

BID SET
PLANS
DATE: 12-17-18

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(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER — FRANK G. HADIDIAN — NO. C 64725 — EXP. 06/30/19 — CIVIL — STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO: 568.45.55
DESIGNED BY: JRS
DRAWN BY: MDG
CHECKED BY: FGH DATE: 12/13/18
DATE: 12/17/18

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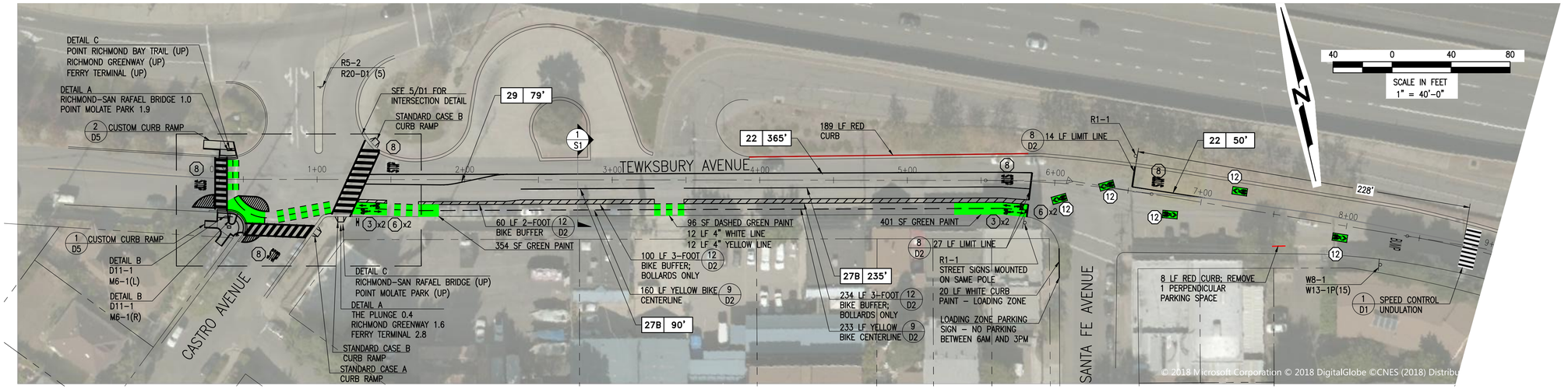
SHEET TITLE

NOTES, LEGENDS, AND ABBREVIATIONS

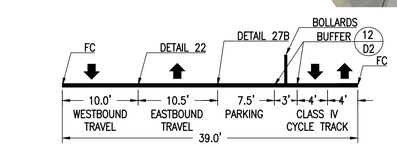
DRAWING G2

SHEET 2 OF 20

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1 S1 STATION 1+40 TO 5+75
1" = 10'

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
8. CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
10. RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN–BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

NOTE:

1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
2. REMOVE STRIPING AND MARKINGS ON TEWKSBURY AVENUE BETWEEN CASTRO AVENUE AND RAILROAD AVENUE.
3. INSTALL AN R5–2 AND R20–D1(5) IN CASTRO MEDIAN NORTH OF I–580 ON THE "CASTRO ST – PT RICHMOND" NAVIGATIONAL SIGN POST.

BID SET
PLANS
DATE: 12-17-18

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12/17/18

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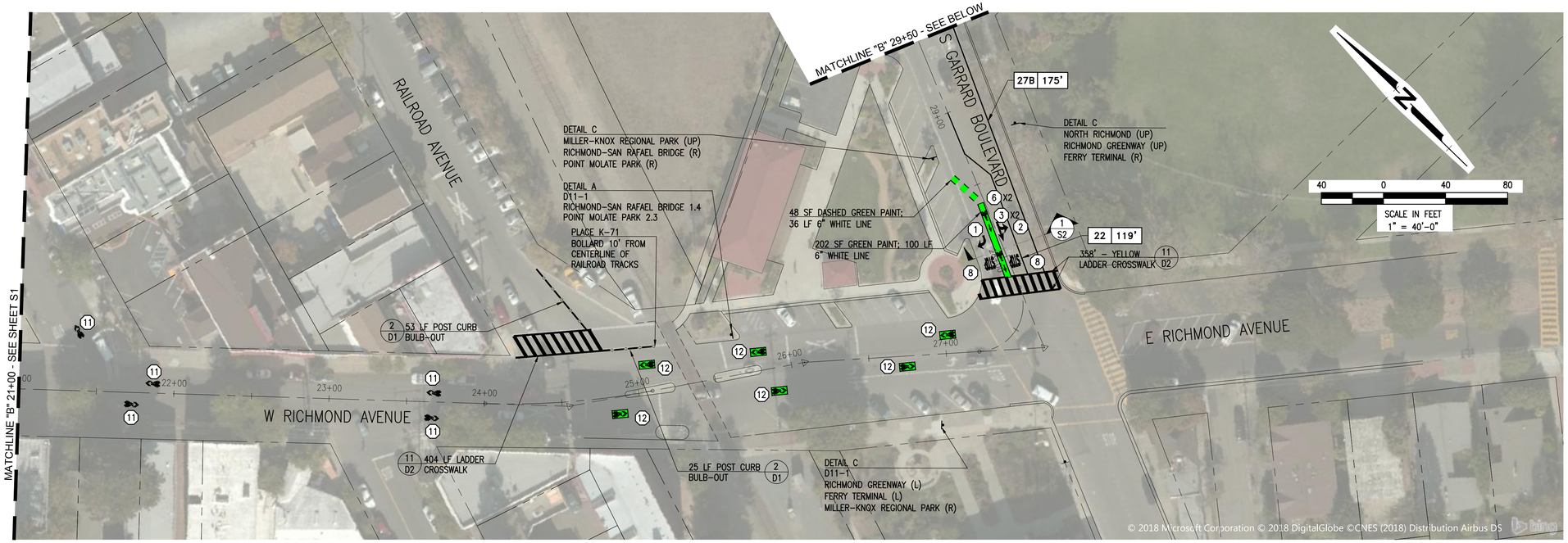
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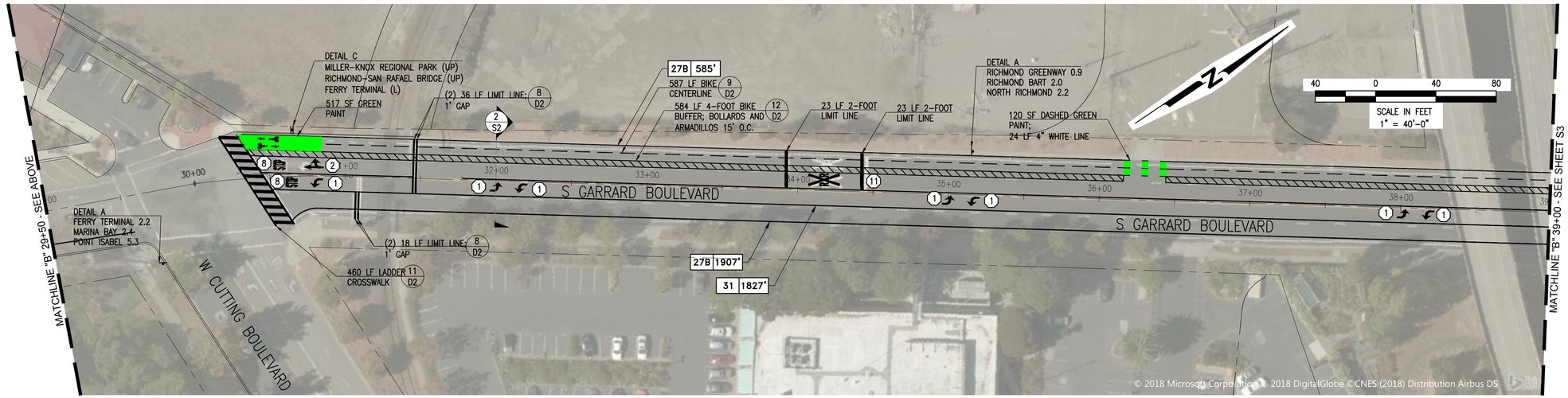
STRIPING
0+34 TO 21+00

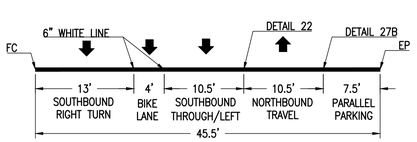
DRAWING
S1

SHEET 3 OF 20

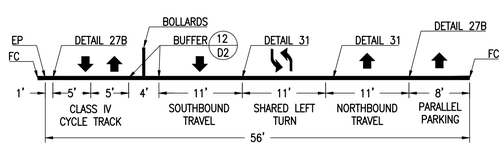
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1 S2 STATION 28+00
1" = 10'



2 S2 STATION 31+50 TO 49+75
1" = 10'

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
8. CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
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11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

NOTE:
1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
2. REMOVE STRIPING AND MARKINGS ON W RICHMOND AVENUE AND S. GARRARD BOULEVARD NORTH OF WEST CUTTING BOULEVARD.

BID SET
PLANS
DATE: 12-17-18

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NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

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CHECKED BY: FGH DATE: 12/13/18
DATE: 12/17/18

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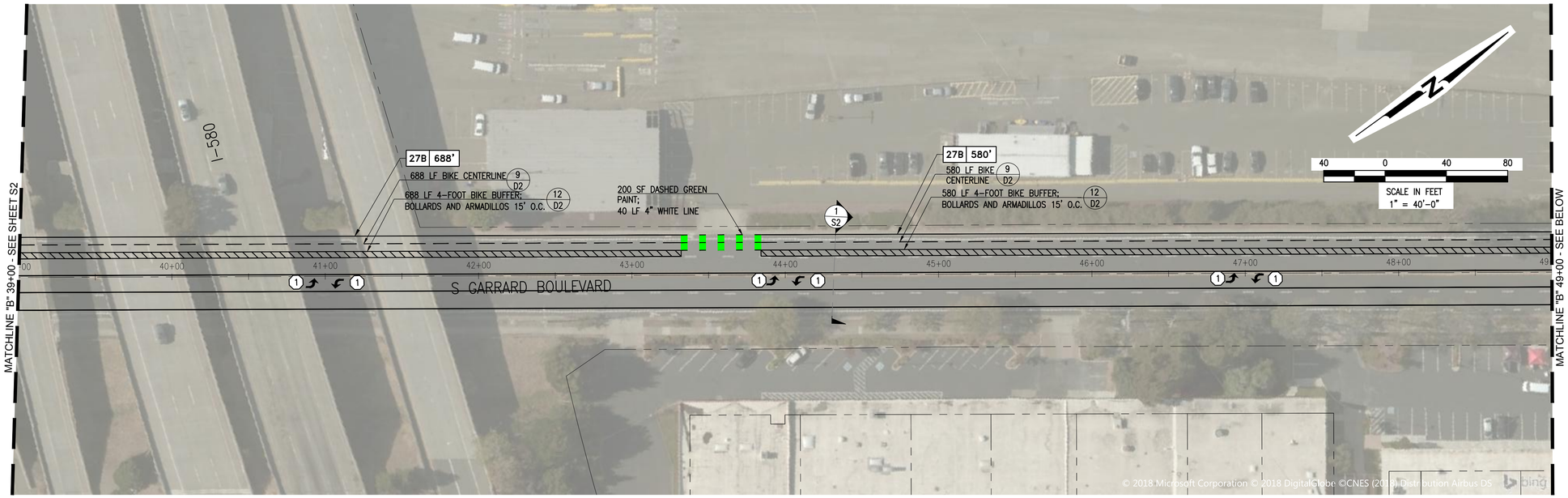
SHEET TITLE

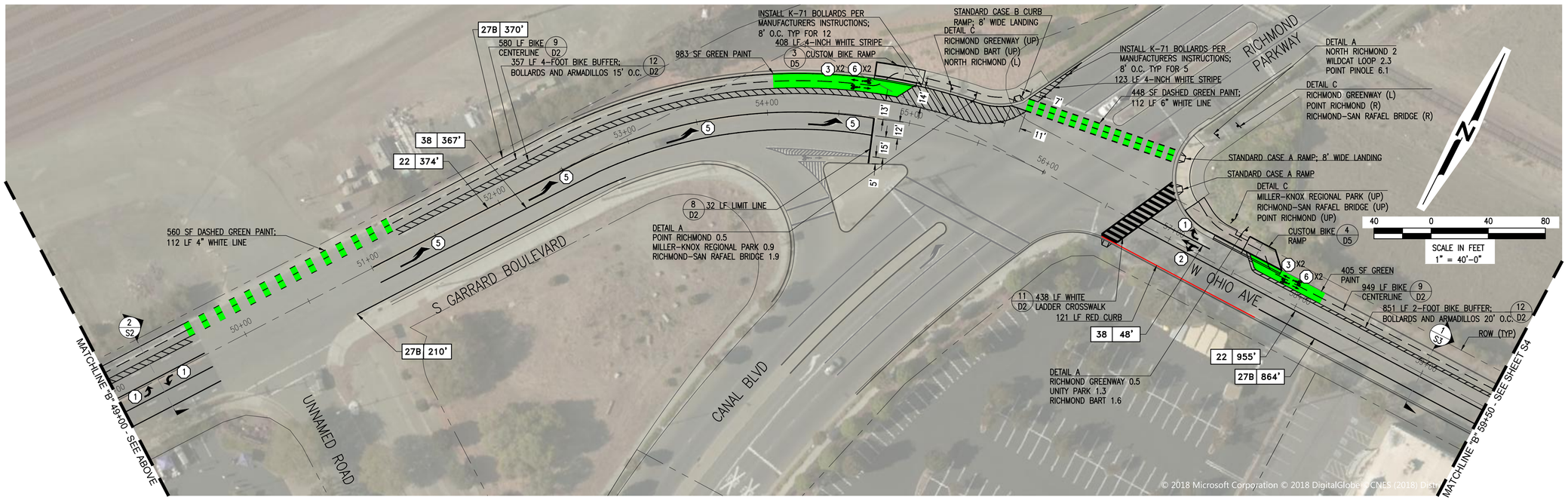
STRIPING
21+00 TO 39+00

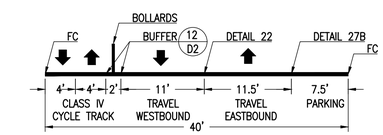
DRAWING S2

SHEET 4 OF 20

File: \\ncce\Projects\Active Projects\Richmond City – A568\568.45.55 – Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S1-S5.dwg | Layout: S2 | Printed: Dec 19, 2018 @ 1:49pm | ID:mg.22.0s (LMS Tech)







1 S3 STATION 57+75 TO 84+50
1" = 10'

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
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12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

NOTE:
1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
2. REMOVE STRIPING AND MARKINGS FROM W OHIO AVENUE AND S GARRARD BOULEVARD.

BID SET
PLANS
DATE: 12-17-18

Know what's below. Call before you dig.

NCE
501 Canal Blvd., Suite I
Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HAIDINGER
NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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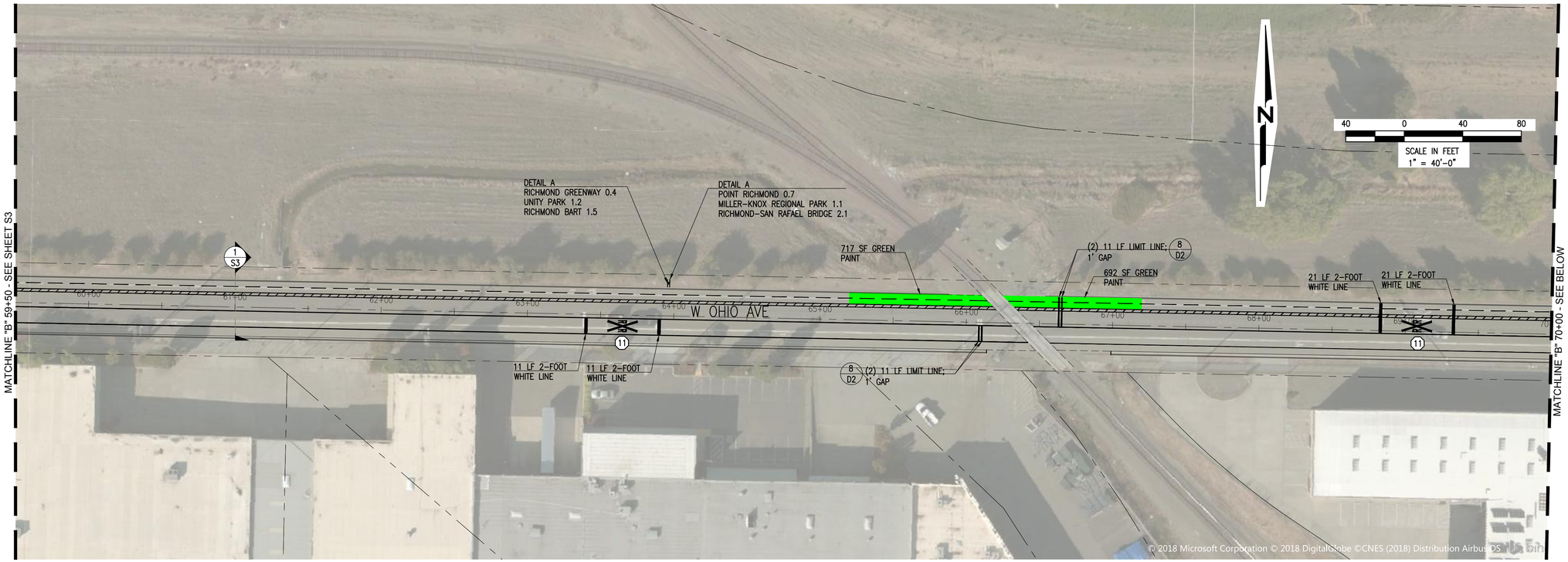
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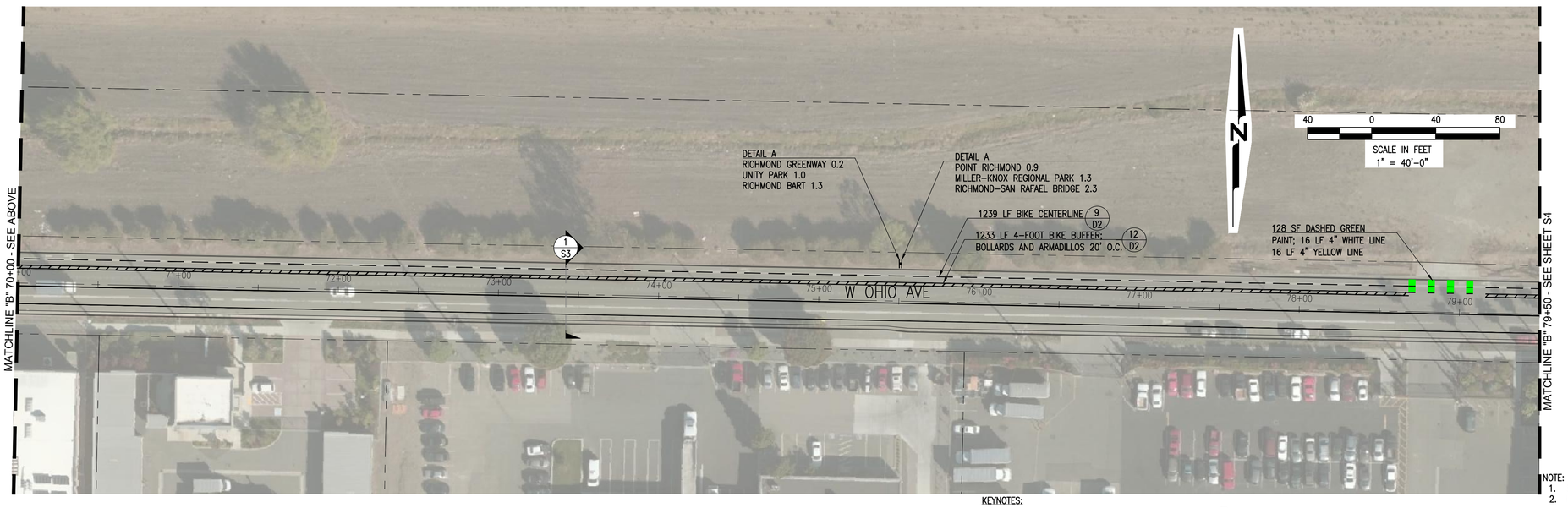
STRIPING
39+00 TO 59+50

DRAWING
S3

SHEET 5 OF 20

File: \Users\Projects\Active Projects\Richmond City - 4568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S1-S5.dwg | Layout: S3 | Printed Dec. 19, 2018 @ 1:50pm | ID.mg.22.0x (LMS Tech)





NOTE:
1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
2. REMOVE STRIPING AND MARKINGS FROM OHIO AVENUE.

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
8. CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
10. RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

BID SET
PLANS
DATE: 12-17-18

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NCE
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Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HAIDINGER
NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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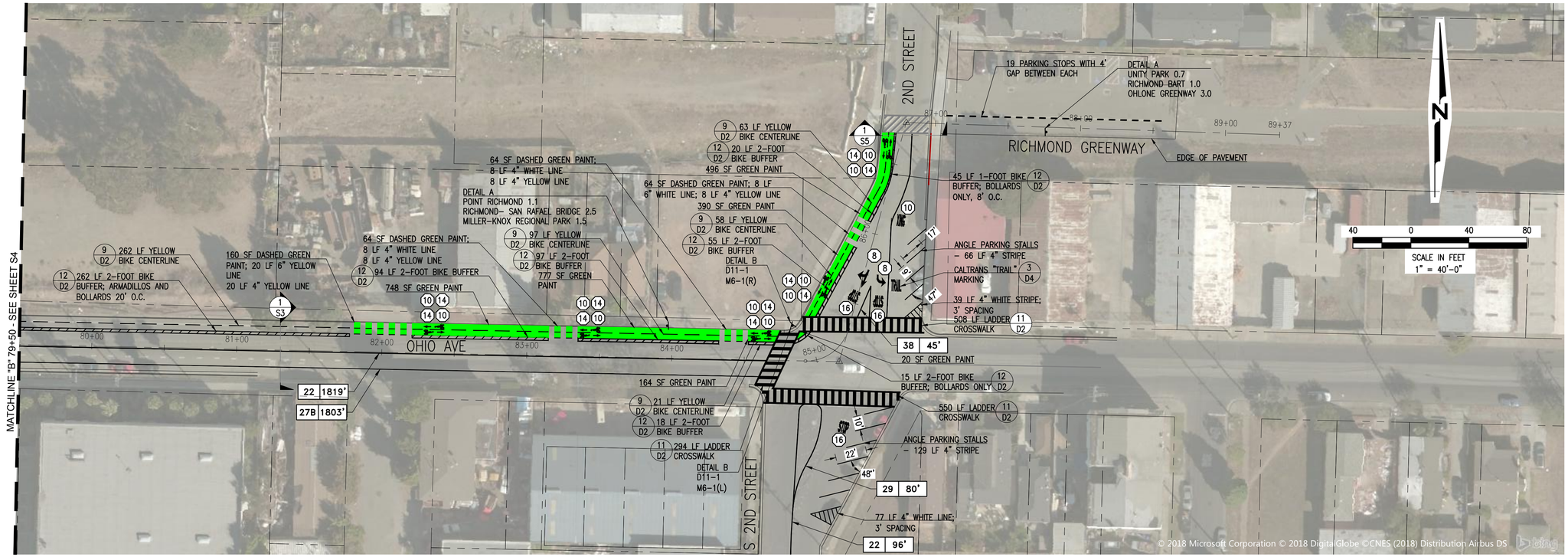
SHEET TITLE

STRIPING
59+50 TO 79+50

DRAWING S4

SHEET 6 OF 20

File: \\ncce\Projects\Active Projects\Richmond City - A568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S1-S5.dwg | Layout: S4 | Printed Dec 19, 2018 @ 1:50pm | ID.mg.22.0s (LMS Tech)





1 / S5 STATION 86+30 TO 86+75
1" = 10'

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
8. CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
10. RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

NOTE:
1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
2. REMOVE STRIPING AND MARKINGS FROM OHIO AVENUE AND 2ND STREET INTERSECTION.

BID SET
PLANS
DATE: 12-17-18

Know what's below. Call before you dig.

NCE
501 Canal Blvd., Suite I
Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HAUDIQUET
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EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO: 568.45.55
DESIGNED BY: JRS
DRAWN BY: MDG
CHECKED BY: FGH DATE: 12/13/18
DATE: 12/17/18

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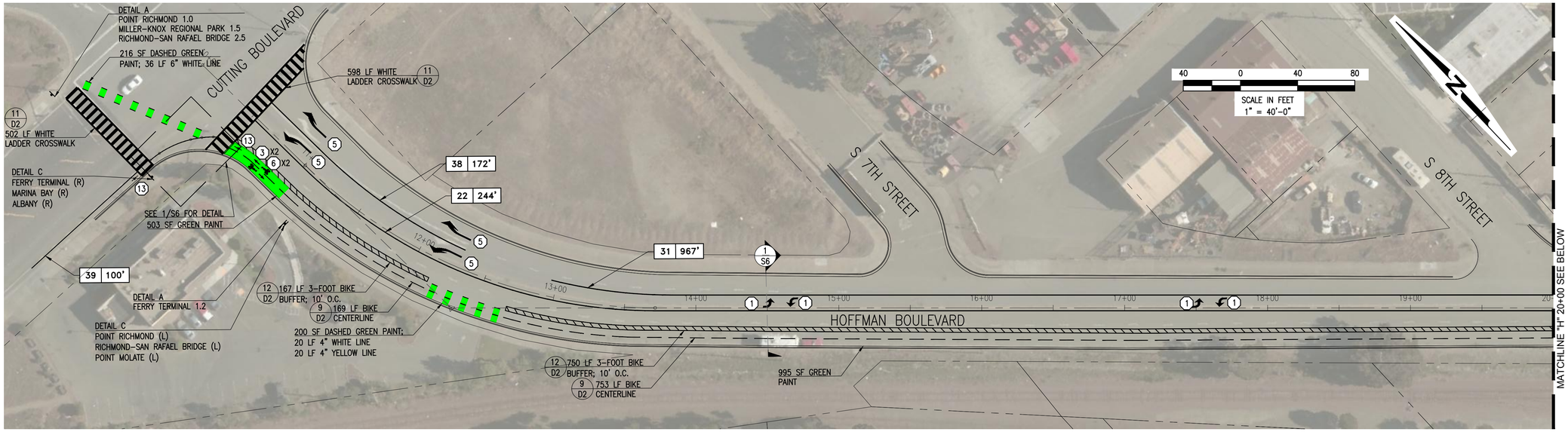
SHEET TITLE

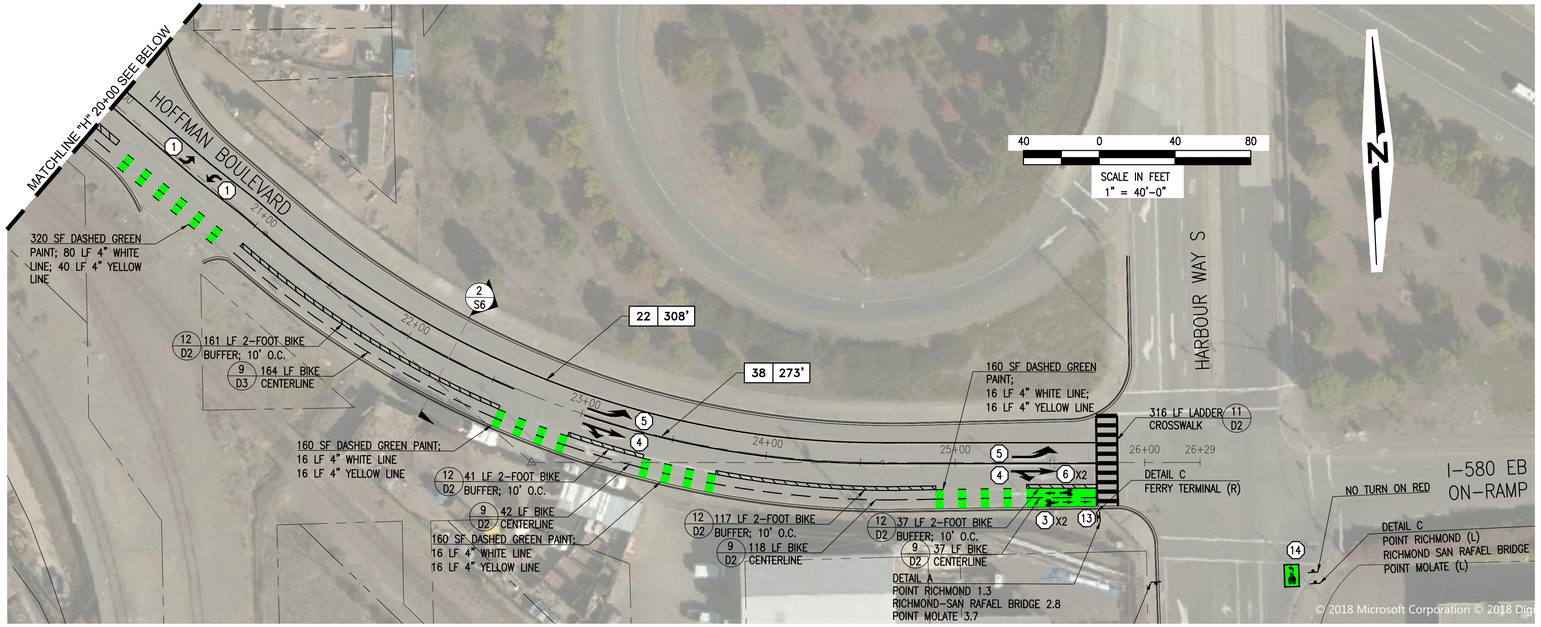
STRIPING
79+50 TO 89+00

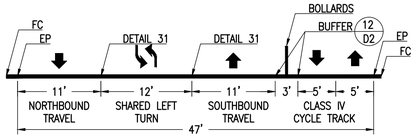
DRAWING S5

SHEET 7 OF 20

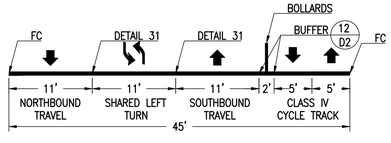
File: \\sscr\Projects\Active Projects\Richmond City - A568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S1-S5.dwg | Layout: S3 | Printed Dec 19, 2018 @ 1:50pm | ID.mg.22.Os (LMS Tech)



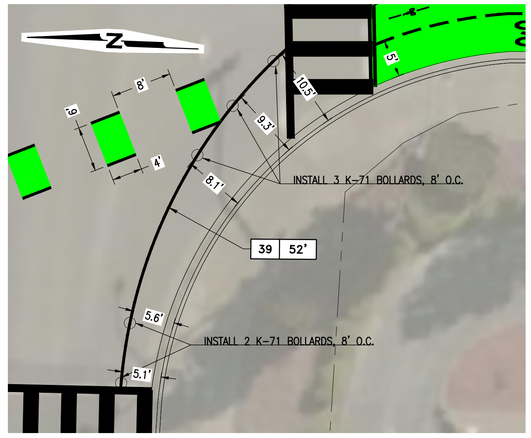




1 S6 STATION 14+50
1" = 10'



2 S6 STATION 22+25
1" = 10'



1 S6 BOLLARD PASSAGEWAY DETAIL
1" = 10'

NOTE:
1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
2. REMOVE STRIPING AND MARKINGS FROM HOFFMAN BOULEVARD BETWEEN CUTTING BOULEVARD AND HARBOUR WAY.

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
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9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
10. RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

BID SET
PLANS
DATE: 12-17-18

Know what's below. Call before you dig.

NCE
501 Canal Blvd., Suite I
Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HADIDIAN
NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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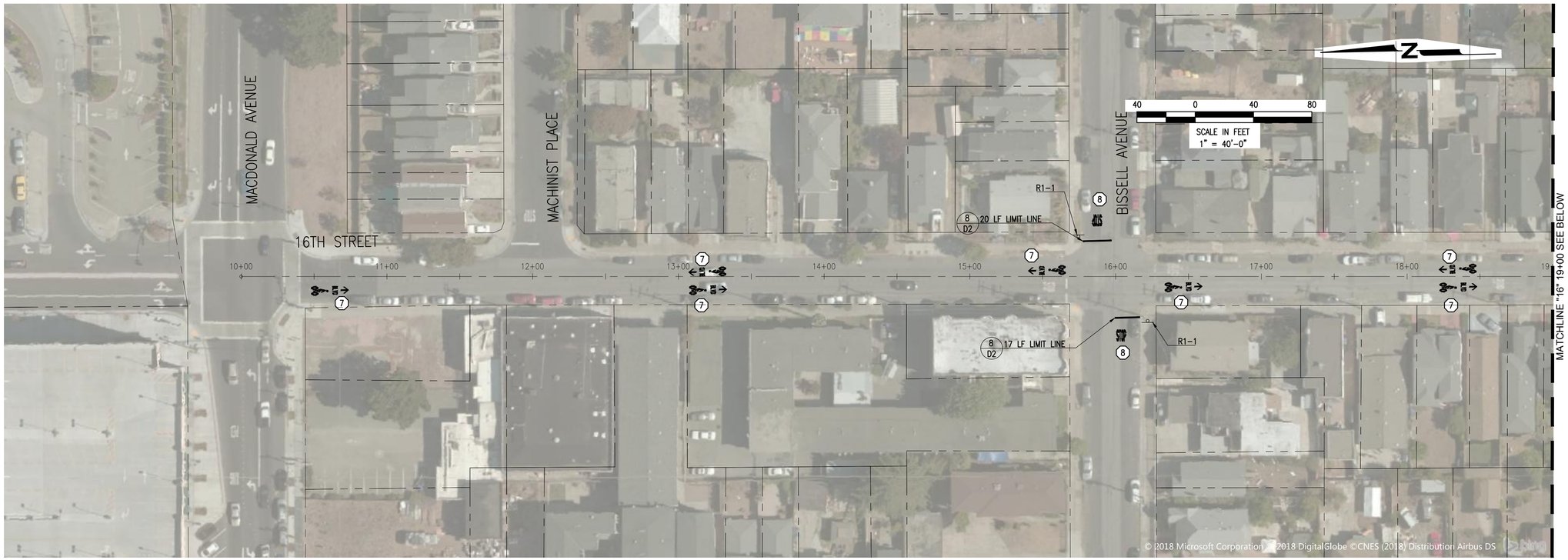
SHEET TITLE

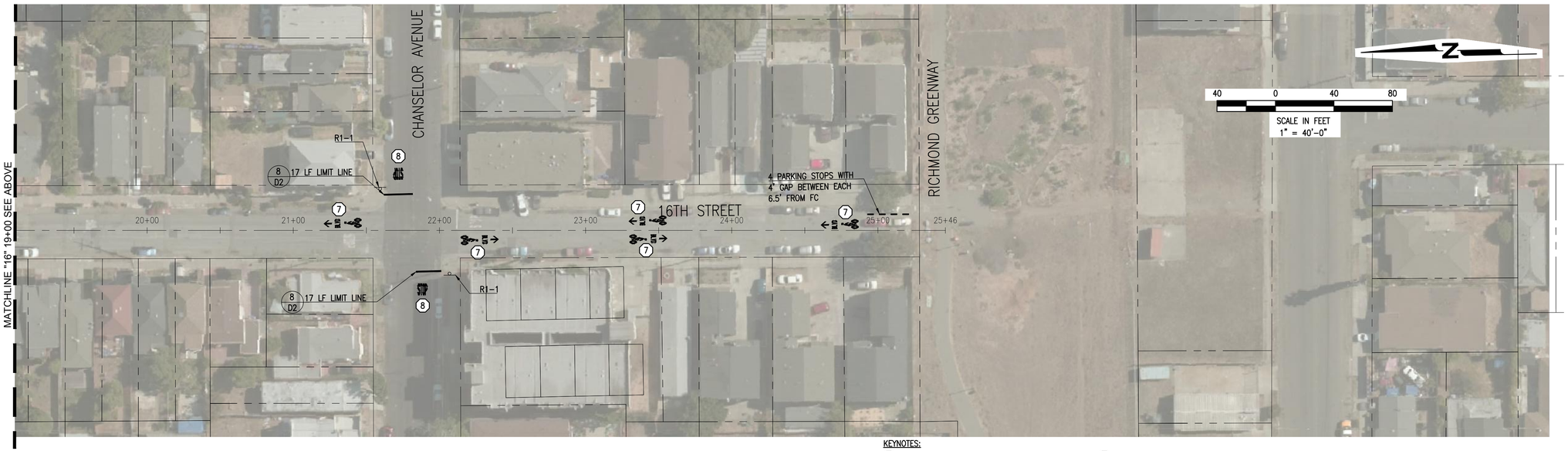
STRIPING
BID ALTERNATE 1 -
HOFFMAN BOULEVARD

DRAWING
S6

SHEET 8 OF 20

File: \\ssor\Projects\Active Projects\Richmond City - A568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S6-10.DWG | Layout: S6 | Printed Dec 19, 2018 @ 1:51pm | ID.mg.22.Os (LMS Tech)





NOTE:
STREET RESURFACING BY CITY PRIOR TO STRIPING.

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
8. CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
10. RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

BID SET
PLANS
DATE: 12-17-18

811 Know what's below. Call before you dig.

NCE
501 Canal Blvd., Suite I
Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HADIDIAN
NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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SHEET TITLE

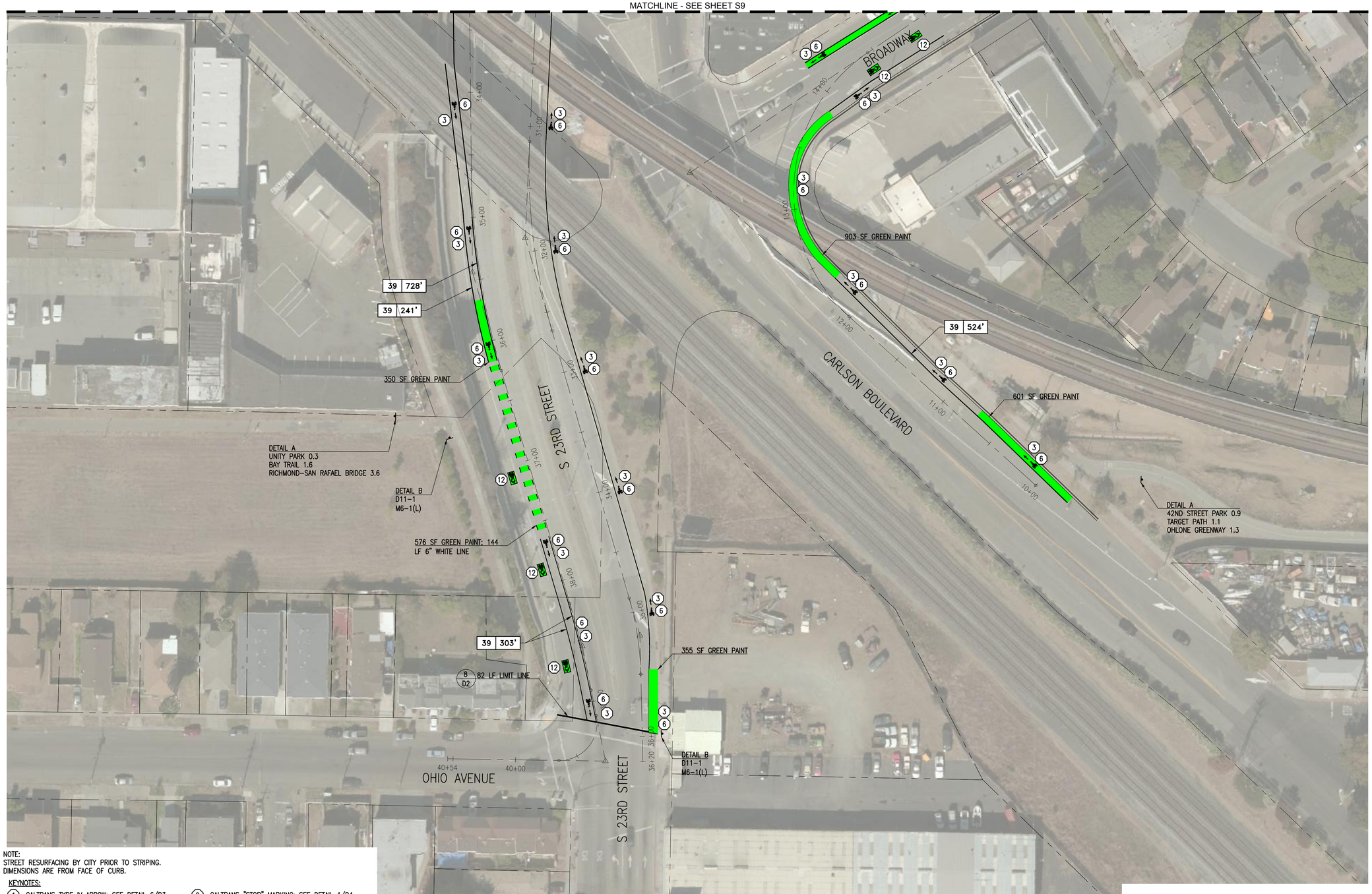
STRIPING
10+00 TO 25+50

DRAWING S7

SHEET 9 OF 20

File: \\sscr\Projects\Active Projects\Richmond City - A568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S8-10.DWG | Layout: S7 | Printed Dec 19, 2018 @ 1:51pm | 0.mg22.0s (LMS Tech)

MATCHLINE - SEE SHEET S9



NOTE:
STREET RESURFACING BY CITY PRIOR TO STRIPING.
DIMENSIONS ARE FROM FACE OF CURB.

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
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11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN–BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

BID SET
PLANS
DATE: 12-17-18

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REGISTERED PROFESSIONAL ENGINEER
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NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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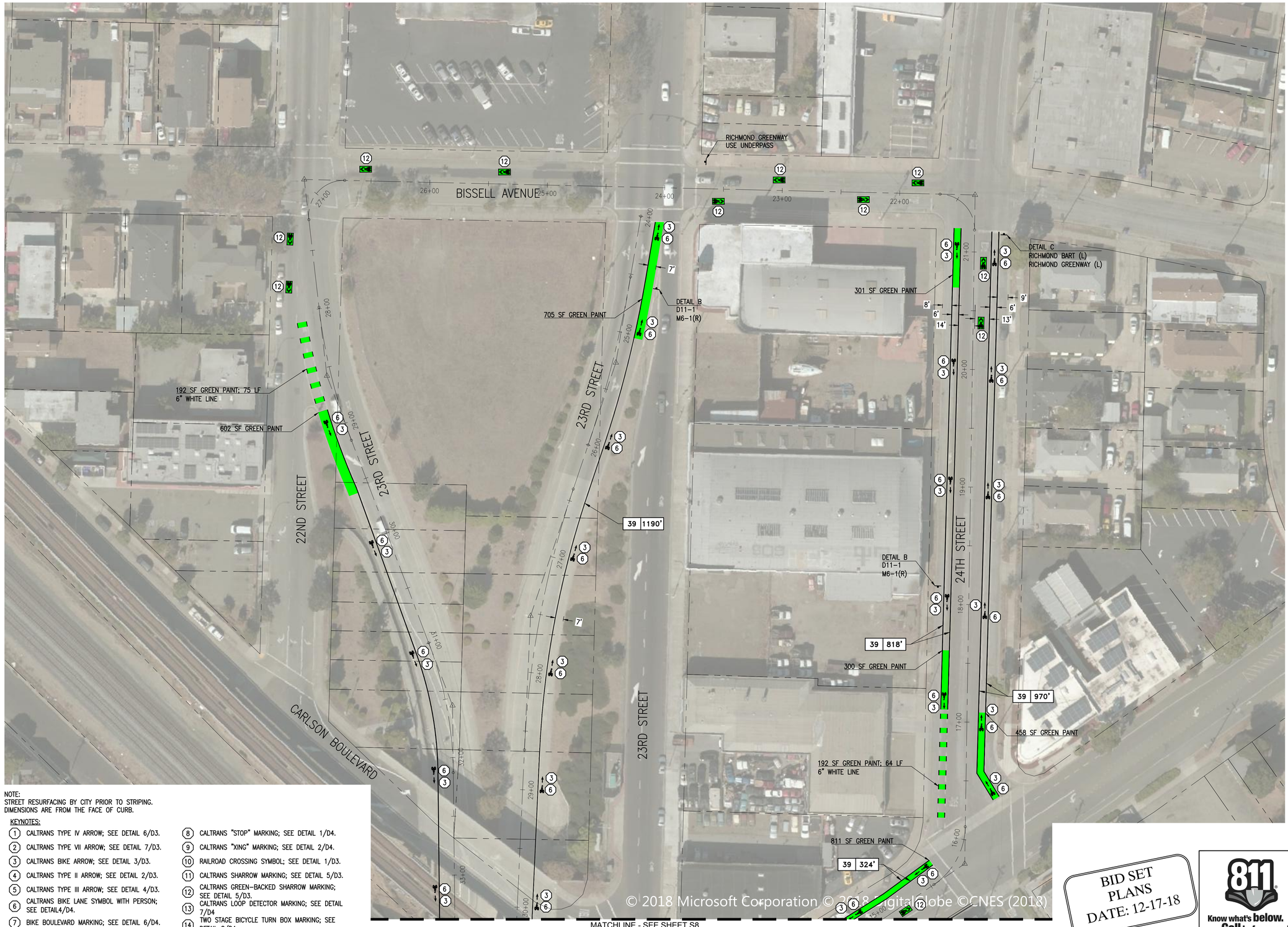
SHEET TITLE

STRIPING
BID ALTERNATE 2 -
23RD STREET SOUTH

DRAWING
S8

SHEET 10 OF 20

File: \\sscv\Projects\Active Projects\Richmond City – AS&R\568.45.55 – Short–term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S8–10.DWG | Layout: S8 | Printed Dec 19, 2018 @ 1:51pm | ID.mg.22.0s (LMS Tech)



NOTE:
STREET RESURFACING BY CITY PRIOR TO STRIPING.
DIMENSIONS ARE FROM THE FACE OF CURB.

KEYNOTES:

1. CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
2. CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
3. CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
4. CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
5. CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
6. CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL4/D4.
7. BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
8. CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
9. CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
10. RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
11. CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
12. CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
13. CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4
14. TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

BID SET
PLANS
DATE: 12-17-18

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501 Canal Blvd., Suite I
Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HAIDINGER
NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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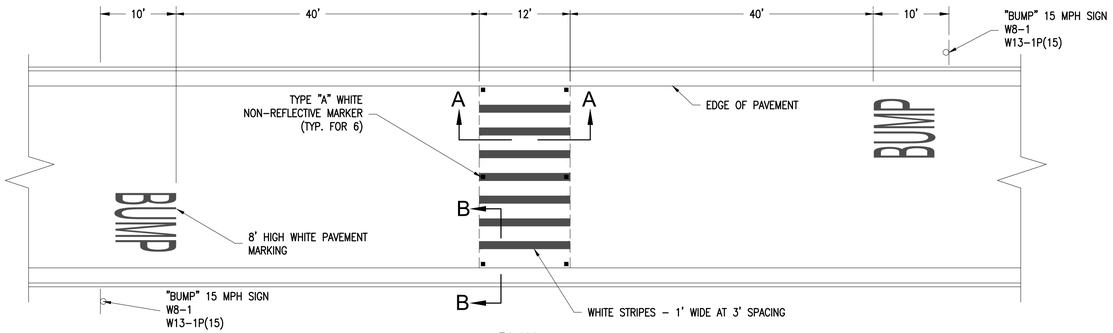
SHEET TITLE

STRIPING
BID ALTERNATE 2 -
23RD STREET NORTH

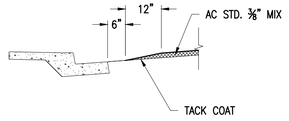
DRAWING
S9

SHEET 11 OF 20

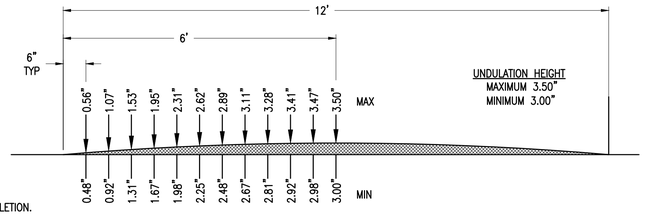
File: \\sso\Projects\Active Projects\Richmond City - A568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\S8-10.DWG | Layout: S9 | Printed Dec 19, 2018 @ 1:51pm | ID.mg.22.0s (LMS Tech)



PLAN



SECTION B–B

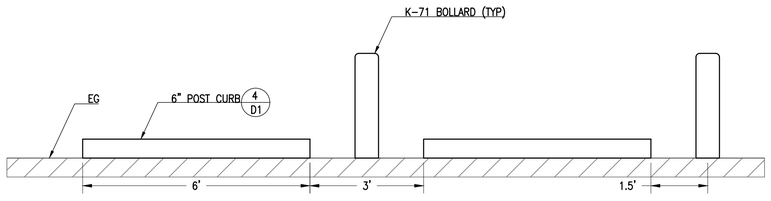


SECTION A–A

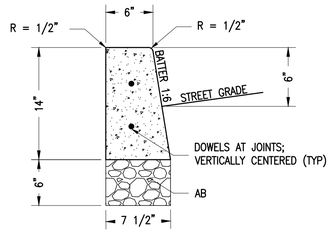
NOTES:

1. ALL MARKINGS AND SIGNS SHALL BE REFLECTIVE.
2. UNDULATIONS MUST BE INSTALLED WITH EXCEPTIONAL ACCURACY AND ATTENTION TO DETAIL.
3. STRIPING AND PAVEMENT LEGENDS MUST BE INSTALLED IMMEDIATELY AFTER CONSTRUCTING UNDULATIONS.
4. CITY TRAFFIC ENGINEER MUST APPROVE LAYOUT PRIOR TO CONSTRUCTION AND VERIFY INSTALLATION UPON COMPLETION.

1 / D1 SPEED CONTROL UNDULATION
N.T.S.

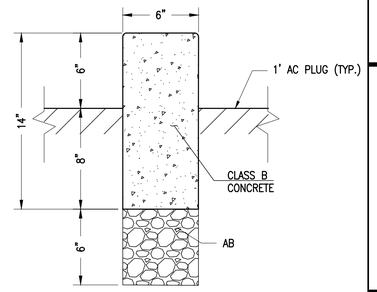


2 / D1 POST CURB BULB-OUT AT W RICHMOND AVE AND RAILROAD AVE
N.T.S.



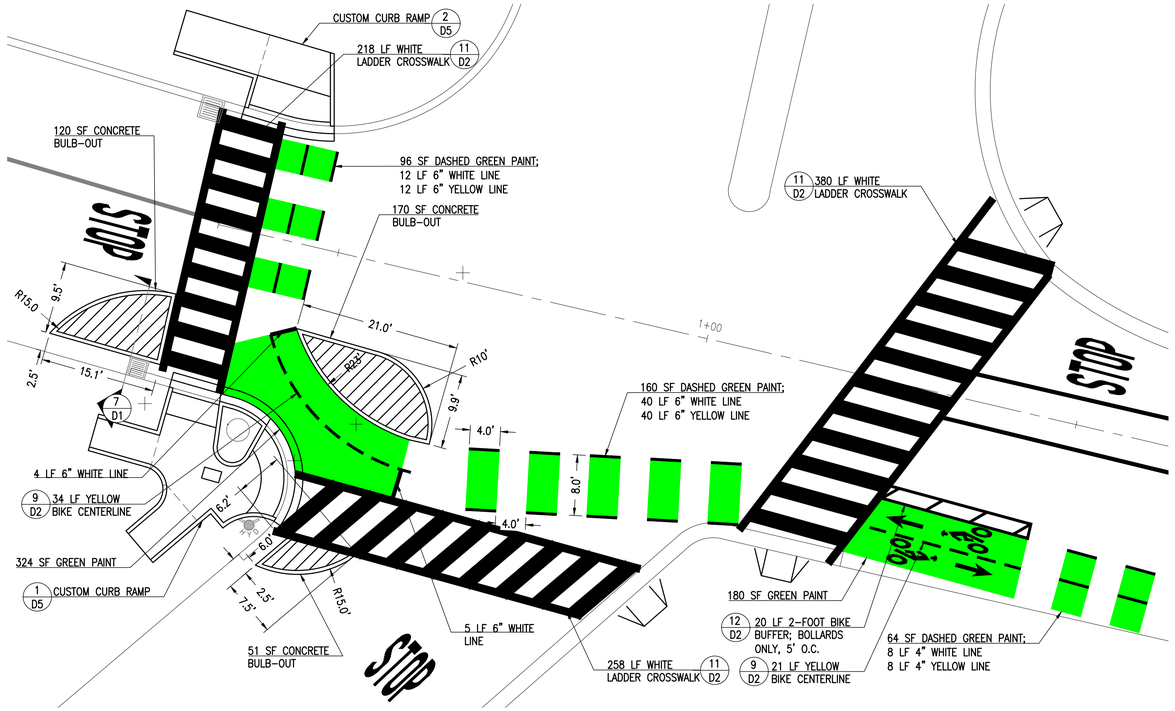
3 / D1 STANDARD CURB
N.T.S.

NOTES:
1. AGGREGATE BASE SHALL BE COMPACTED TO 95% MIN., UNLESS OTHERWISE APPROVED.
2. 1/2" RADIUS ON EXPOSED EDGES.



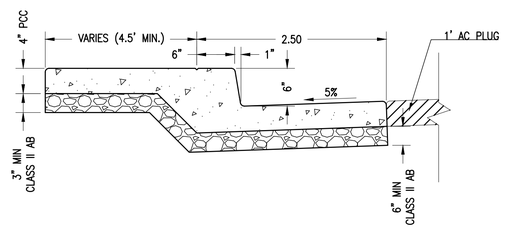
4 / D1 STANDARD POST CURB
N.T.S.

NOTES:
1. AGGREGATE BASE SHALL BE COMPACTED TO 95% MIN., UNLESS OTHERWISE APPROVED.
2. 1/2" RADIUS ON EXPOSED EDGES.



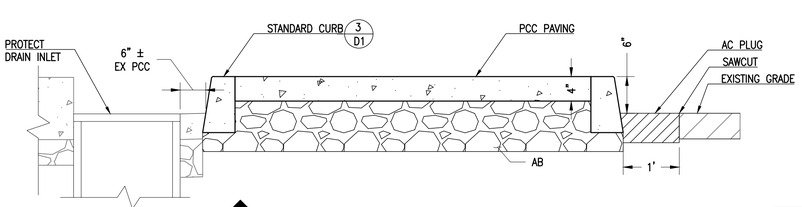
5 / D1 CONCRETE BULB-OUT AND STRIPING AT TEWKSBURY AVE AND CASTRO AVE
N.T.S.

NOTE: FOR PAVEMENT LEGENDS SEE SHEET S1.



6 / D1 MONOLITHIC SIDEWALK WITH TYPE "A" CURB AND GUTTER
N.T.S.

NOTES:
1. AGGREGATE BASE SHALL BE COMPACTED TO 95% MIN., UNLESS OTHERWISE APPROVED.
2. 1/2" RADIUS ON EXPOSED EDGES.



7 / D1 CONCRETE BULB-OUT TYPICAL SECTION
N.T.S.

BID SET
PLANS
DATE: 12-17-18

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REGISTERED PROFESSIONAL ENGINEER
FRANK G. HAUBENSAK
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EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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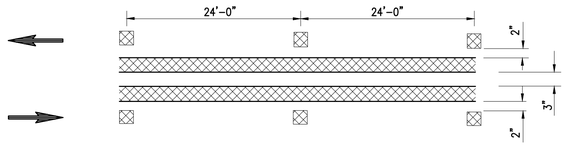
SHEET TITLE

CIVIL DETAILS

DRAWING
D1

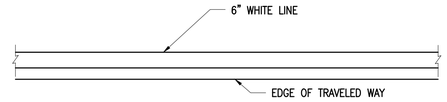
SHEET 12 OF 20

File: \\sscr\Projects\Active Projects\Richmond City - A568\568.45.55 - Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\D1-DX.dwg | Layout: D1 | Printed Dec 19, 2018 @ 1:52pm | ID.mg.22.0s (LMS Tech)



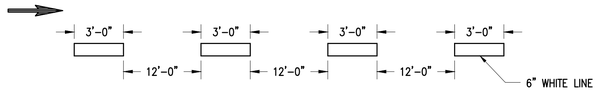
1 D2 CALTRANS STRIPING DETAIL 22
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20A



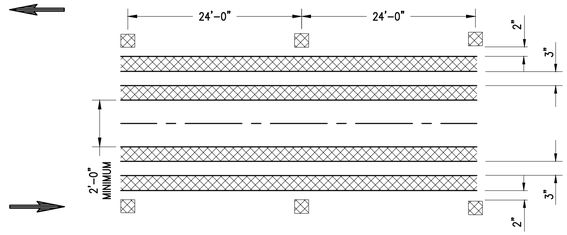
2 D2 CALTRANS STRIPING DETAIL 27B
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20B



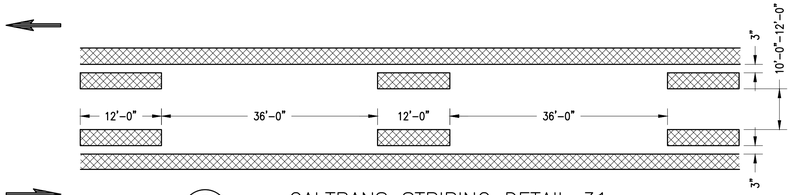
3 D2 CALTRANS STRIPING DETAIL 27C
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20D



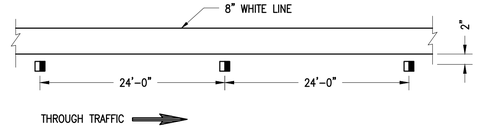
4 D2 CALTRANS STRIPING DETAIL 29
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20B



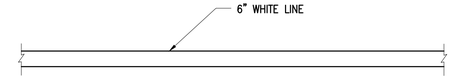
5 D2 CALTRANS STRIPING DETAIL 31
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20B



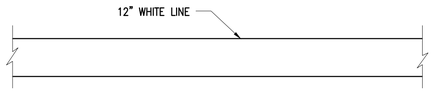
6 D2 CALTRANS STRIPING DETAIL 38
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20D



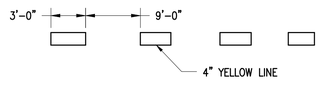
7 D2 CALTRANS STRIPING DETAIL 39
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20D

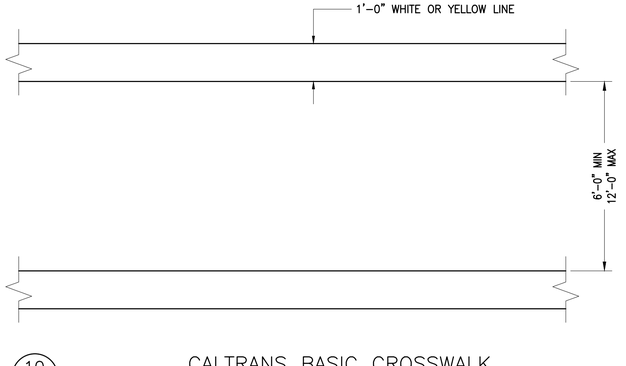


8 D2 CALTRANS LIMIT LINE / STOP BAR
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES" A24E

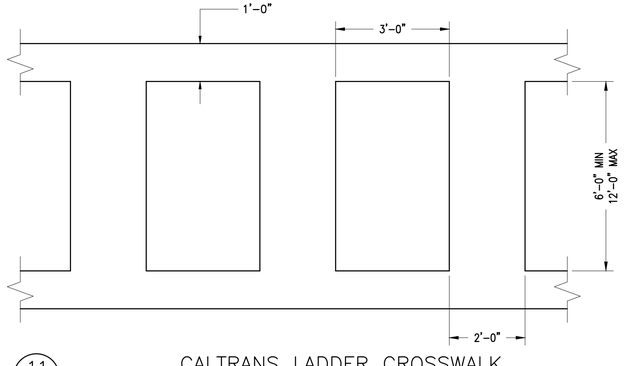


9 D2 BIKE CENTERLINE
N.T.S.



10 D2 CALTRANS BASIC CROSSWALK
N.T.S.

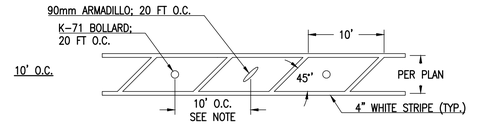
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS CROSSWALKS" A24F

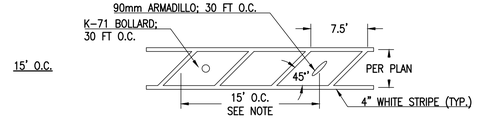


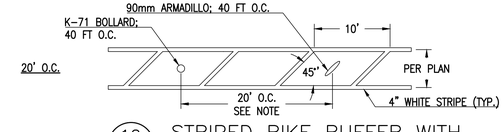
11 D2 CALTRANS LADDER CROSSWALK
N.T.S.

NOTES:
1) SPACES BETWEEN WHEEL TRACKS MUST BE PLACED IN WHEEL TRACKS OF EACH LANE.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS CROSSWALKS" A24F







12 D2 STRIPED BIKE BUFFER WITH ARMADILLOS AND BOLLARDS
N.T.S.

NOTE: ALTERNATE BOLLARDS AND ARMADILLOS UNLESS OTHERWISE NOTED. NO ARMADILLOS OR BOLLARDS SHALL BE PLACED WITHIN 10 FEET OF RAILROAD CENTERLINE. NO ARMADILLOS OR BOLLARDS SHALL BE PLACED WITHIN 15 FEET OF THE EDGE OF A DRIVEWAY.

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PLANS
DATE: 12-17-18

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NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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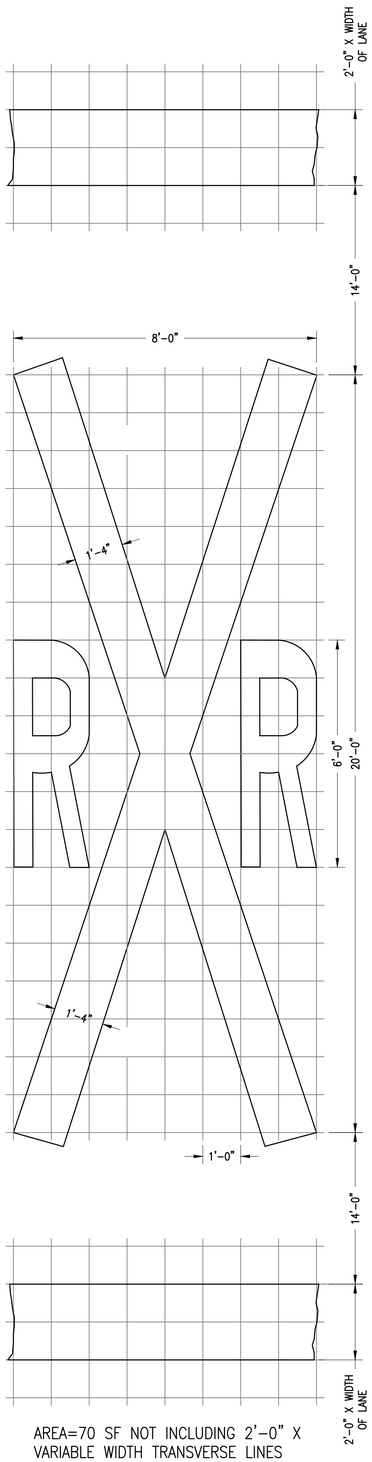
SHEET TITLE

STRIPING AND MARKING DETAILS 1

DRAWING D2

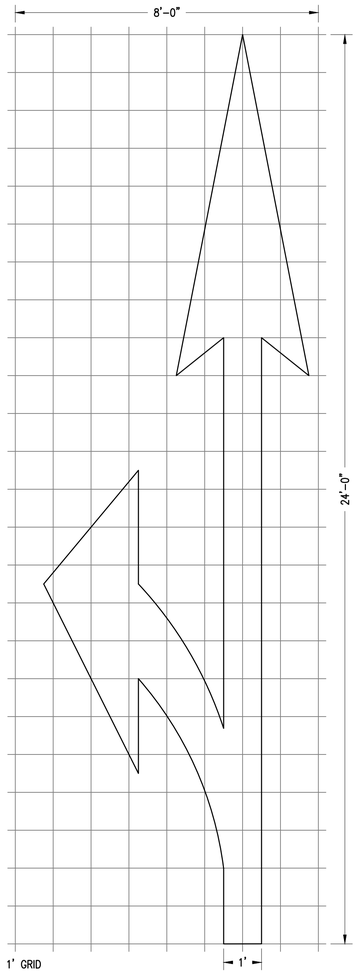
SHEET 13 OF 20

File: \\sccr\Projects\Active Projects\Richmond City – A568\568.45.55 – Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\D1-DX.dwg | Layout: D2 | Printed Dec 19, 2018 @ 1:52pm | ID:mg.22.0s (LMS Tech)



AREA=70 SF NOT INCLUDING 2'-0" X VARIABLE WIDTH TRANSVERSE LINES

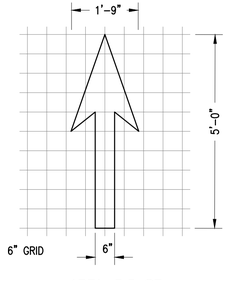
1/D3 RAILROAD CROSSING SYMBOL
N.T.S.



AREA=45 SF

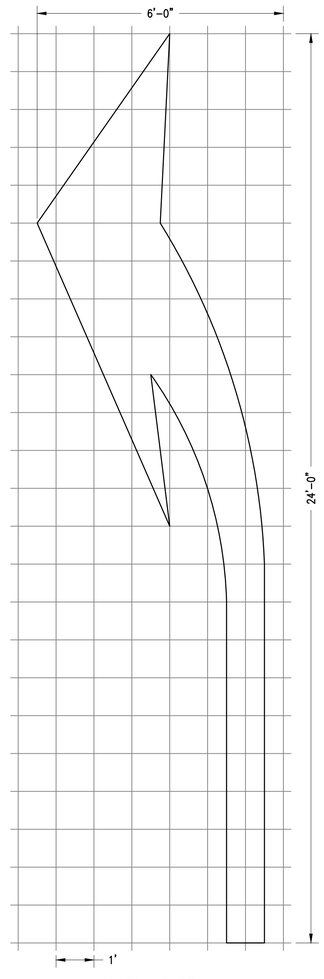
2/D3 CALTRANS TYPE II (L) ARROW
N.T.S.

NOTE: FOR TYPE II (R) ARROW USE MIRROR IMAGE.



AREA=3.5 SF

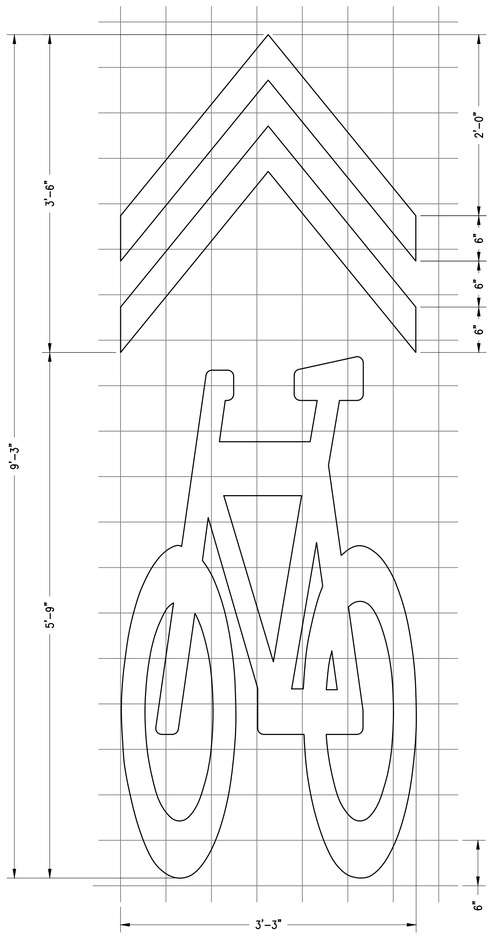
3/D3 CALTRANS BIKE LANE ARROW
N.T.S.



AREA=42 SF

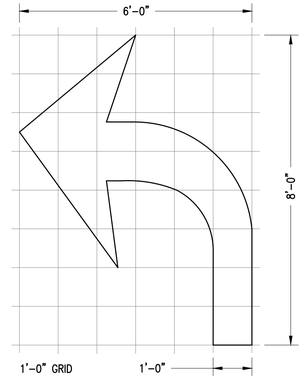
4/D3 CALTRANS TYPE III (L) ARROW
N.T.S.

NOTE: FOR TYPE III (R) ARROW USE MIRROR IMAGE.



AREA=11.5 SF

5/D3 CALTRANS SHARROW MARKING
N.T.S.

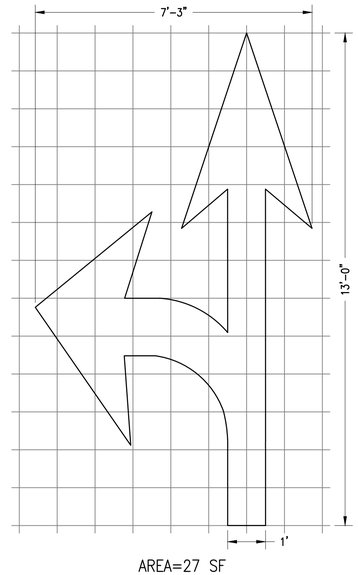


AREA=15 SF

6/D3 CALTRANS TYPE IV (L) ARROW MARKING
N.T.S.

NOTES:
1) FOR TYPE IV (R) ARROW, USE MIRROR IMAGE.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS ARROWS" A24A



AREA=27 SF

7/D3 CALTRANS TYPE VII ARROW
1" = 2'

NOTES:
1) FOR TYPE VII (L) ARROW, USE MIRROR IMAGE.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS ARROWS" A24A

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DATE: 12-17-18

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EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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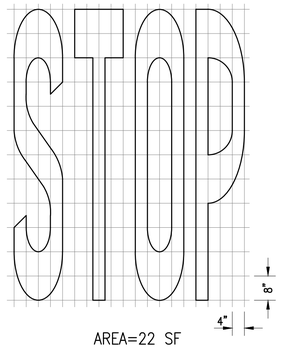
STRIPING AND MARKING DETAILS 2

DRAWING

D3

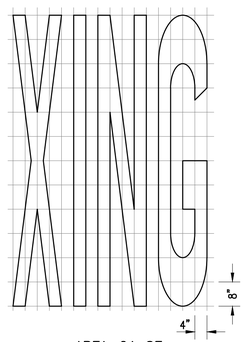
SHEET 14 OF 20

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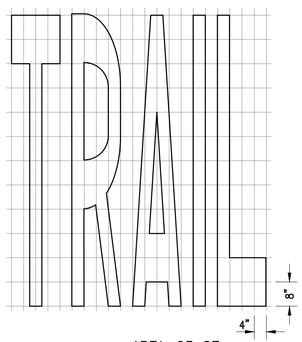
AREA=22 SF

1 / D4 CALTRANS "STOP" MARKING
N.T.S.



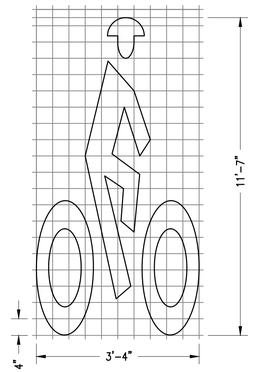
AREA=21 SF

2 / D4 CALTRANS "XING" MARKING
N.T.S.



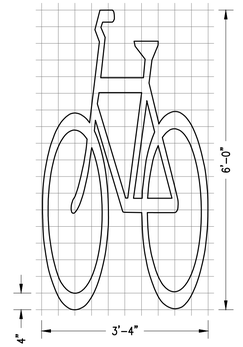
AREA=23 SF

3 / D4 CALTRANS "TRAIL" MARKING
N.T.S.



AREA=7 SF

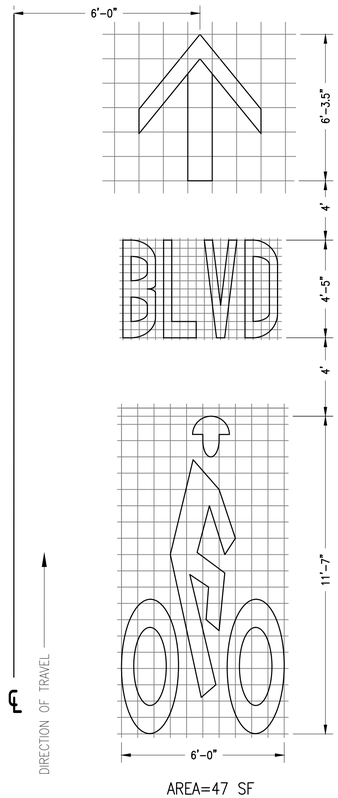
4 / D4 CALTRANS BIKE WITH PERSON MARKING
N.T.S.



AREA=7 SF

5 / D4 CALTRANS BIKE WITHOUT PERSON MARKING
N.T.S.

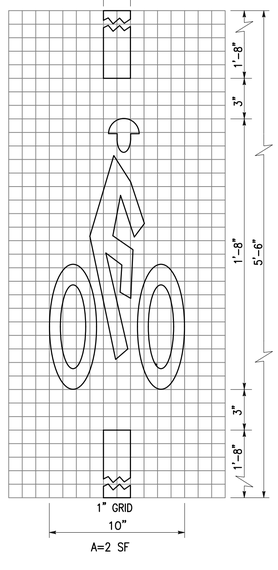
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



AREA=47 SF

6 / D4 BIKE BOULEVARD MARKING
N.T.S.

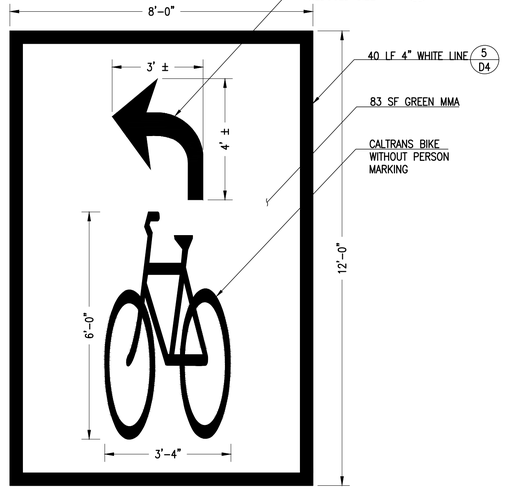
SOURCE: MODIFIED FROM 'BIKE LANE SYMBOL WITH PERSON' FROM CALTRANS, "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS A24C"



A=2 SF

7 / D4 CALTRANS BICYCLE LOOP DETECTOR MARKING
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



8 / D4 TWO-STAGE BICYCLE TURN BOX MARKING
N.T.S.

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PLANS
DATE: 12-17-18

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12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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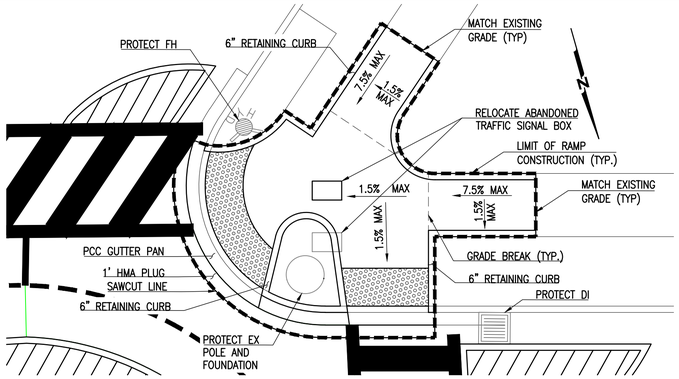
SHEET TITLE

STRIPING AND MARKING DETAILS 3

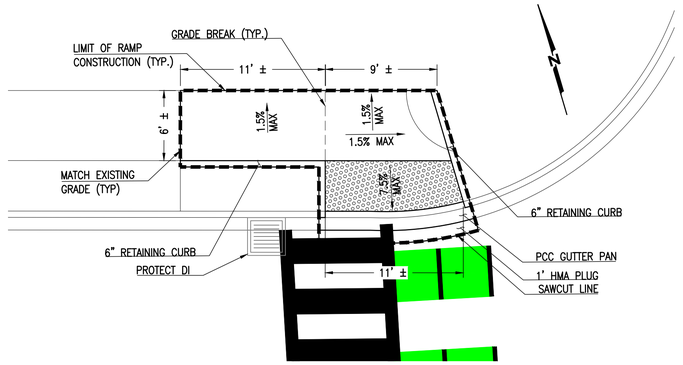
DRAWING D4

SHEET 15 OF 20

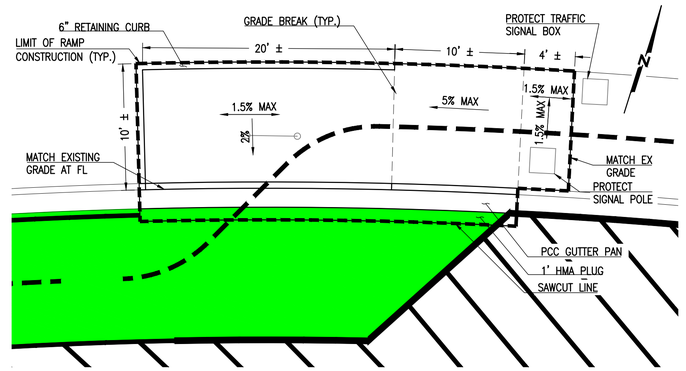
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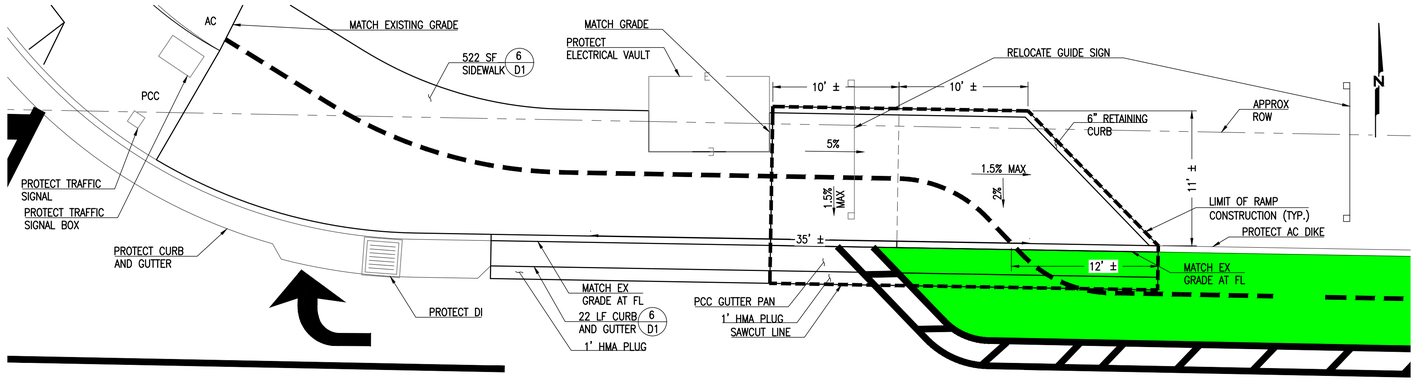
1 D5 TEWKSBURY AVENUE AND CASTRO STREET (SW CORNER)
1" = 6'



2 D5 TEWKSBURY AVENUE AND CASTRO STREET (NW CORNER)
1" = 6'



3 D5 W OHIO AVENUE AND RICHMOND PARKWAY BIKE RAMP (NW CORNER)
1" = 6'



4 D5 W OHIO AVENUE AND RICHMOND PARKWAY BIKE RAMP (NE CORNER)
1" = 6'

BID SET
PLANS
DATE: 12-17-18

Know what's below. Call before you dig.

NCE
501 Canal Blvd., Suite I
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(510) 215-3620 * Fax (510) 215-2898

REGISTERED PROFESSIONAL ENGINEER
FRANK G. HADIDIAN
NO. C 64725
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA
12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY: FGH	DATE: 12/13/18
DATE:	12/17/18

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SHEET TITLE

RAMP DETAILS

DRAWING D5

SHEET 16 OF 20

File: \\sscr\Projects\Active Projects\Richmond City – AS68\568.45.55 – Short-term Bicycle & Pedestrian Connections with RSR Bridge\CAD\Sheets\DX – Ramps.dwg | Layout: D5 | Printed Dec 19, 2018 @ 1:52pm | ID:mg.22.0s (JMS Tech)



DETAIL 'A'
N.T.S



DETAIL 'B'
N.T.S



DETAIL 'C'
N.T.S

BID SET
PLANS
DATE: 12-17-18

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NCE
501 Canal Blvd., Suite I
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FEHR & PEERS
100 Pringle Avenue
Suite 600
Walnut Creek, CA 94596
(925) 930-7100

REGISTERED PROFESSIONAL ENGINEER
RYAN MCCLAIN
No. 67002
Exp 9/30/20
CIVIL
STATE OF CALIFORNIA

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	RM
DRAWN BY:	JM
CHECKED BY: RM	DATE: 12/17/18
DATE:	12/17/18

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SHEET TITLE

WAYFINDING SIGNS

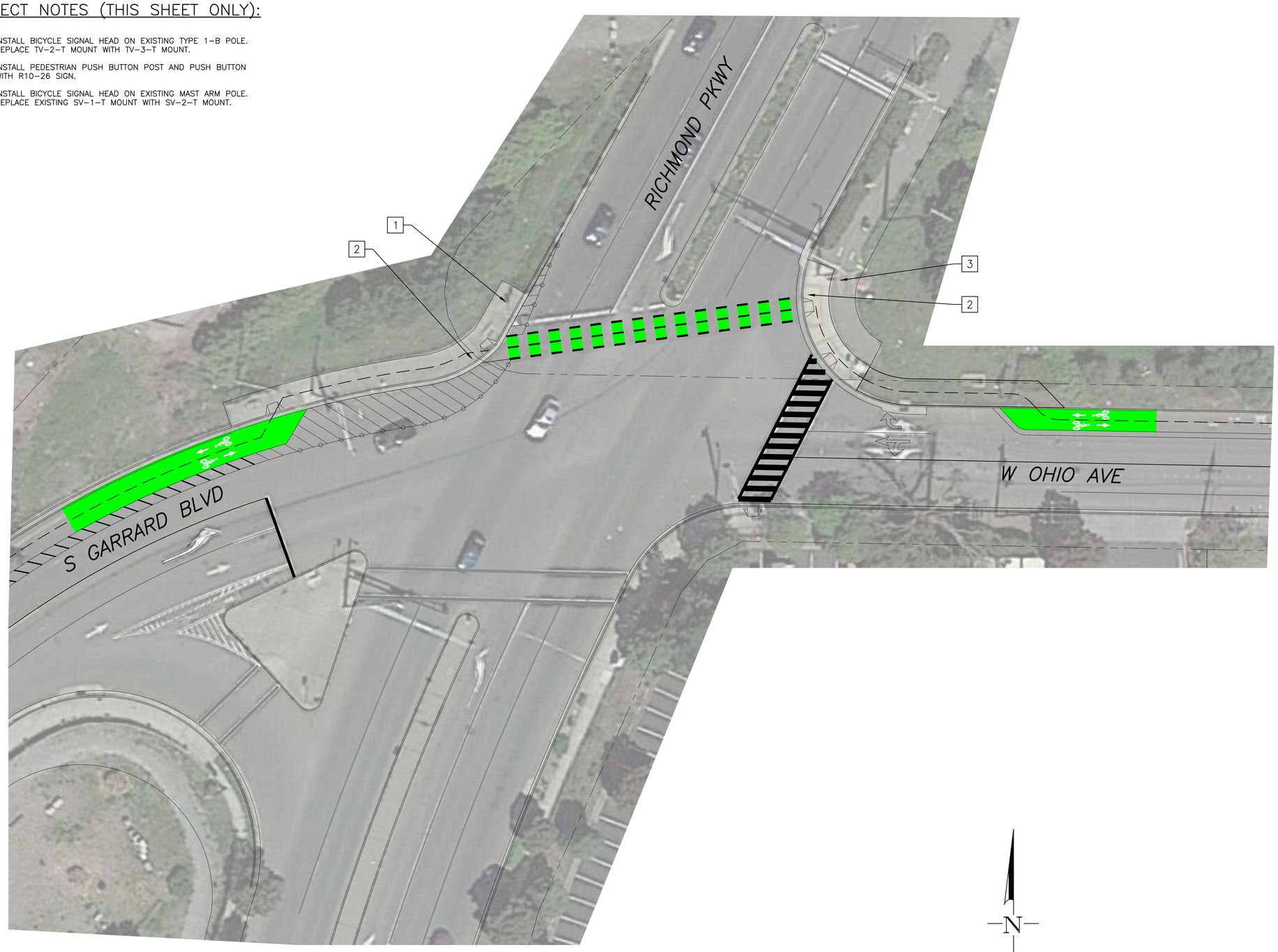
DRAWING
D6

SHEET 17 OF 20

File: N:\PROJECTS\...WC18\WC18--5530.00_Richmond_Ferry_to_Bridge_Path\CAD\D5_Submittal\5530ET--E3.dwg | Layout: D6 | Printed Dec 19, 2018 @ 11:23am | D.dd.21.0s (LMS Tech)

PROJECT NOTES (THIS SHEET ONLY):

1. INSTALL BICYCLE SIGNAL HEAD ON EXISTING TYPE 1-B POLE. REPLACE TV-2-T MOUNT WITH TV-3-T MOUNT.
2. INSTALL PEDESTRIAN PUSH BUTTON POST AND PUSH BUTTON WITH R10-26 SIGN.
3. INSTALL BICYCLE SIGNAL HEAD ON EXISTING MAST ARM POLE. REPLACE EXISTING SV-1-T MOUNT WITH SV-2-T MOUNT.



N

40 0 40 80
1" = 40'
GRAPHIC SCALE

BID SET
PLANS
DATE: 12-17-18

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501 Canal Blvd., Suite I
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FEHR & PEERS
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Exp 9/30/20
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STATE OF CALIFORNIA

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	RM
DRAWN BY:	JM
CHECKED BY: RM	DATE: 12/17/18
DATE:	12/17/18

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SHEET TITLE

TRAFFIC SIGNAL MODIFICATION PLAN 1

S GARRARD BLVD / W OHIO AVE / RICHMOND PARKWAY

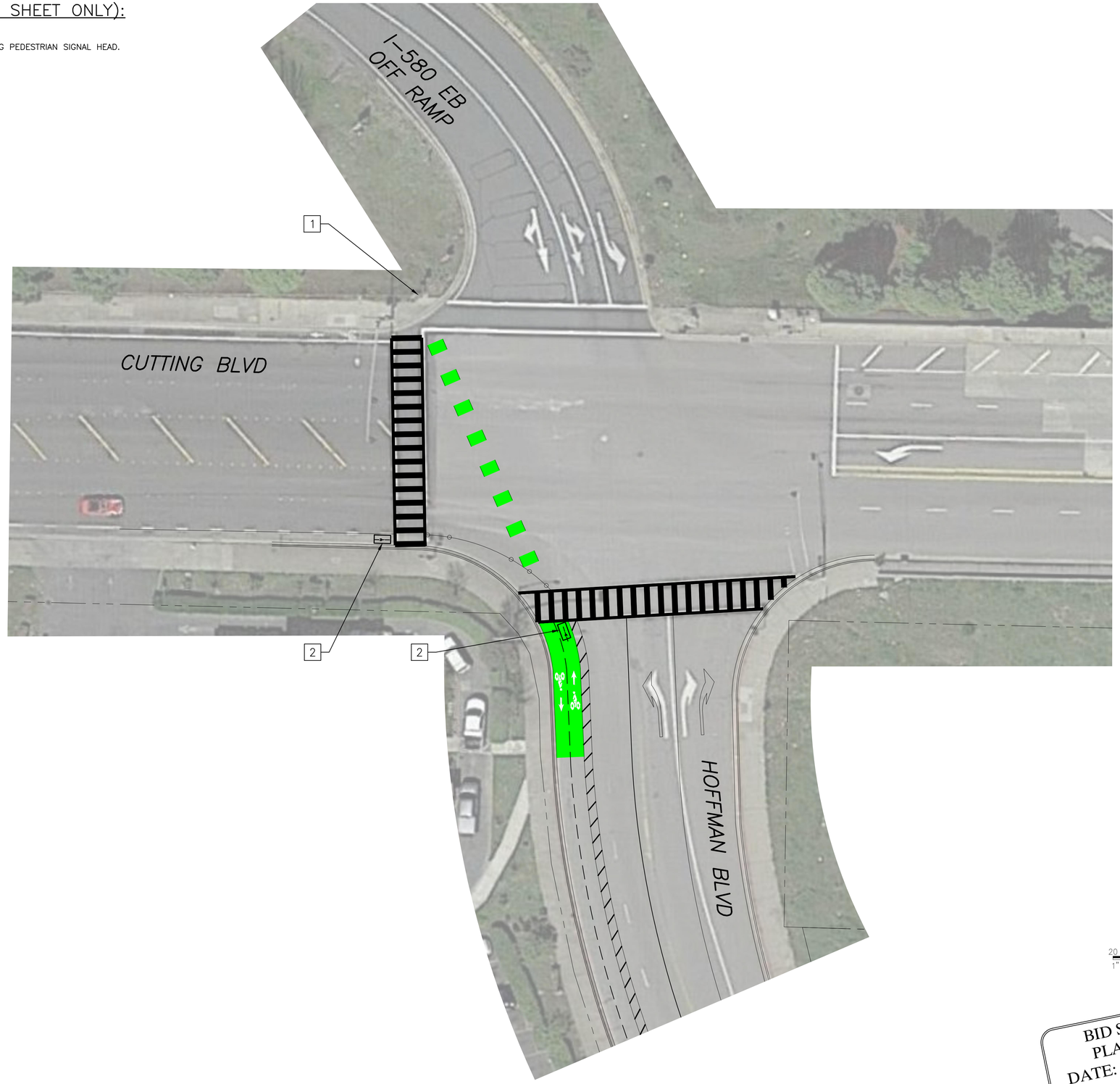
DRAWING E1

SHEET 18 OF 20

File: N:\PROJECTS_WC18\WC18-3535.00_Richmond_Ferry_to_Bridge_Path\CAD\E0_Submittal\3535E1-E3.dwg | Layout: E1 | Printed Dec 19, 2018 @ 11:23am | ID.dd.21.Os (LMS Tech)

PROJECT NOTES (THIS SHEET ONLY):

1. INSTALL R9-5 SIGN ABOVE EXISTING PEDESTRIAN SIGNAL HEAD.
2. INSTALL BICYCLE LOOP DETECTOR.



N

20 0 20 40
1" = 20' GRAPHIC SCALE

BID SET
PLANS
DATE: 12-17-18

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Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898

FEHR & PEERS
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REGISTERED PROFESSIONAL ENGINEER
RYAN MCCLAIN
No. 67002
Exp 9/30/20
CIVIL
STATE OF CALIFORNIA

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	RM
DRAWN BY:	JM
CHECKED BY: RM	DATE: 12/17/18
DATE:	12/17/18

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SHEET TITLE

TRAFFIC SIGNAL MODIFICATION PLAN 2

CUTTING BLVD / HOFFMAN BLVD / I-580 EB OFF RAMP

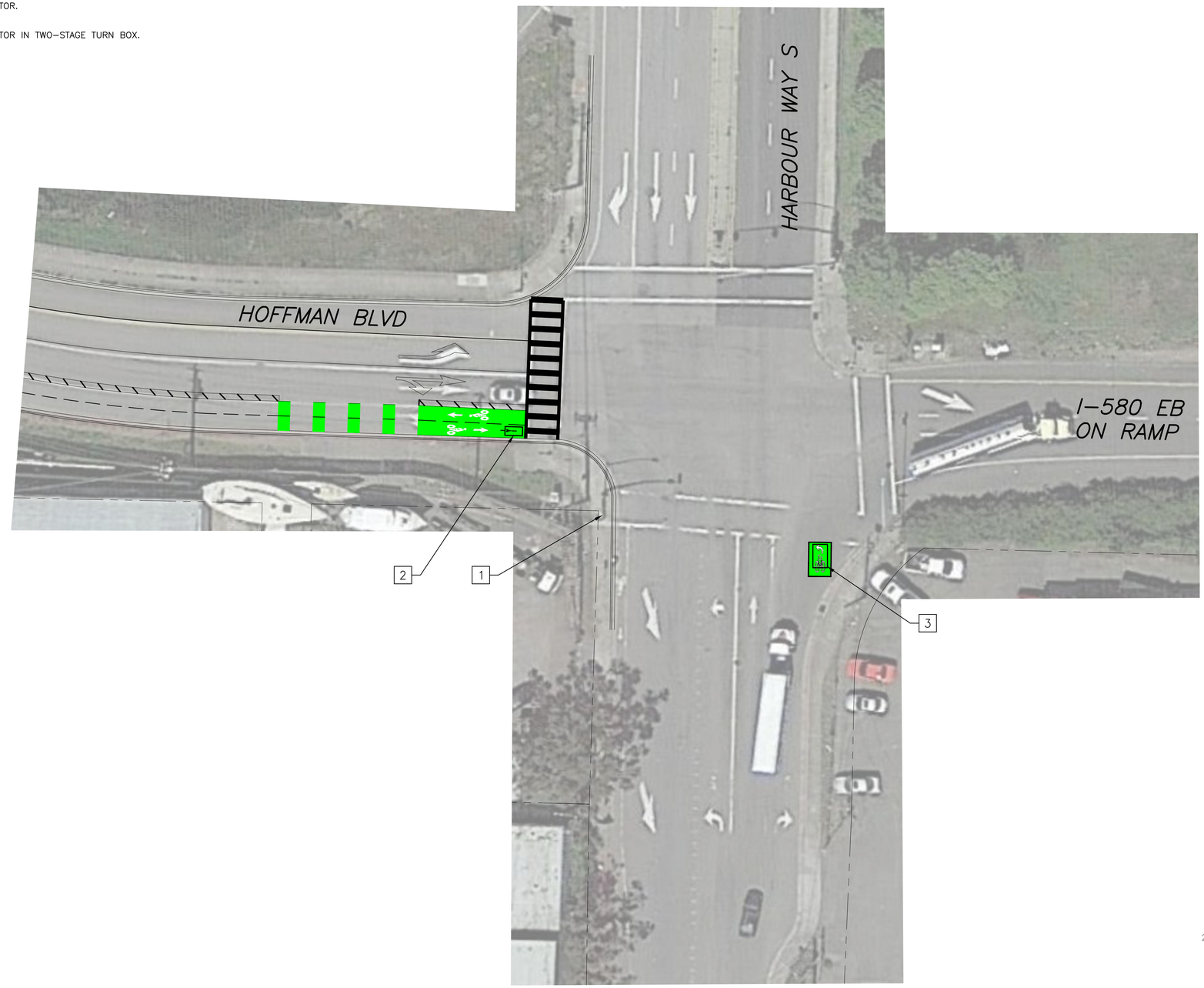
DRAWING E2

SHEET 19 OF 20

File: N:\PROJECTS_WC18\WC18-5530.00_Richmond_Ferry_to_Bridge_Push\CAD\65_Submittal\5530E1-E3.dwg | Layout: E2 | Printed Dec 19, 2018 @ 11:24am | ID.dd.21.Os (LMS Tech)

PROJECT NOTES (THIS SHEET ONLY):

1. INSTALL R9-5 SIGN ABOVE EXISTING PEDESTRIAN SIGNAL HEAD.
2. INSTALL BICYCLE LOOP DETECTOR.
3. INSTALL BICYCLE LOOP DETECTOR IN TWO-STAGE TURN BOX.



20 0 20 40
1" = 20' GRAPHIC SCALE

BID SET
PLANS
DATE: 12-17-18

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Richmond, Ca. 94804
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STATE OF CALIFORNIA

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804

NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	RM
DRAWN BY:	JM
CHECKED BY: RM	DATE: 12/17/18
DATE:	12/17/18

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SHEET TITLE

TRAFFIC SIGNAL MODIFICATION PLAN 3

HOFFMAN BLVD / HARBOUR WAY / I-580 EB ON RAMP

DRAWING E3

SHEET 20 OF 20

File: N:\PROJECTS_WC18\WC18-3530.00_Richmond_Ferry_to_Bridge_Path\CAD\VE5_Submittal\3530E1-E3.dwg | Layout: E3 | Printed: Dec 19, 2018 @ 11:24am | 10.0s(21.0s (LMS Tech)