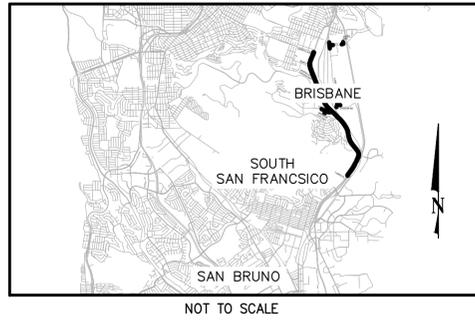


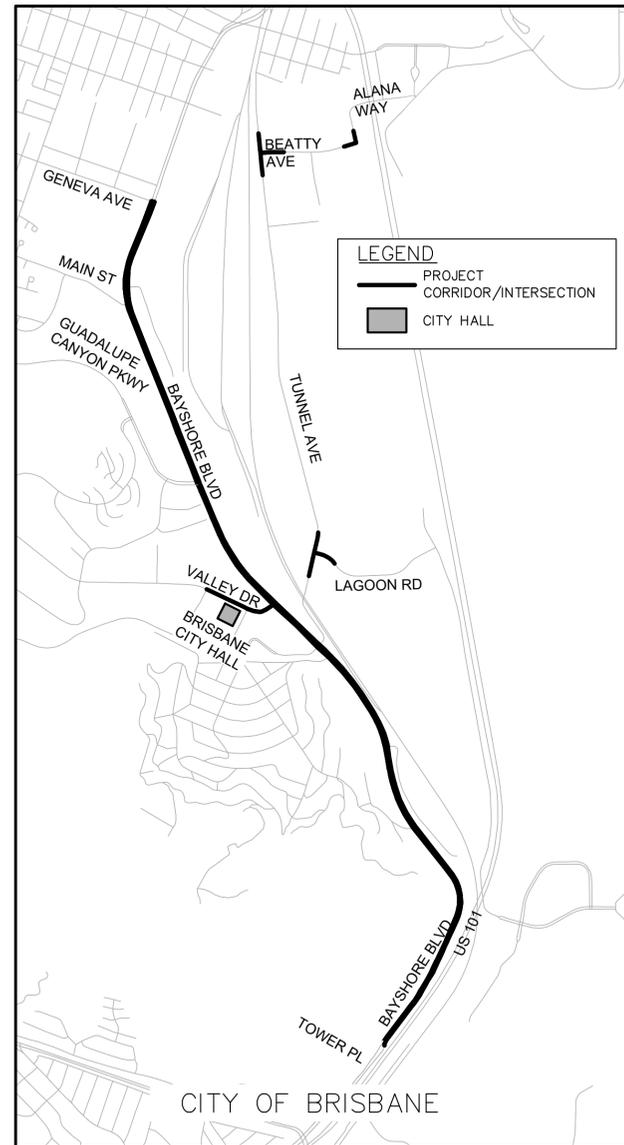
CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY CITY OF BRISBANE SMART CORRIDOR PROJECT

PROJECT SITE VICINITY



LEGEND

PROPOSED	EXISTING
CONTROLLER CABINET	CONTROLLER CABINET
SERVICE ENCLOSURE	
LUMINAIRE	LUMINAIRE
VEHICLE TRAFFIC SIGNAL	VEHICLE TRAFFIC SIGNAL
PULL BOX (NO. 6 UNLESS NOTED)	PULL BOX (NO. 6 UNLESS NOTED)
FIXED CCTV CAMERA	
PEDESTRIAN SIGNAL	PEDESTRIAN SIGNAL
PEDESTRIAN PUSH BUTTON	PEDESTRIAN PUSH BUTTON
EVP DETECTOR	EVP DETECTOR
MAST ARM SIGN	MAST ARM SIGN
UTILITY POLE	UTILITY POLE
VIDEO DETECTION CAMERA	VIDEO DETECTION CAMERA
MICROWAVE VEHICLE DETECTION SYSTEM	
WIRELESS RADIO	
TRAILBLAZER SIGN	
ELECTRIC	ELECTRIC
GAS	GAS
SEWER	SEWER
STORM DRAIN	STORM DRAIN
SANITARY SEWER	SANITARY SEWER
TRAFFIC	TRAFFIC
WATER	WATER
RETAINING WALL	RETAINING WALL
MAN HOLE	MAN HOLE
CONDUIT	CONDUIT
CONDUIT DESIGNATION SYMBOL	CONDUIT DESIGNATION SYMBOL



SHEET INDEX

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4	KM-01	KEY MAP
5-21	FO-01 TO FO-17	COMMUNICATIONS AND ELECTRICAL
22-25	ES-01 TO ES-04	CONDUCTOR SCHEDULES
26	SY-01	SYSTEM DIAGRAMS
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41-44	TC-01 TO TC-04	TEMPORARY TRAFFIC CONTROL

ABBREVIATIONS

AC	ASPHALT CONCRETE
AP	ACCESS POINT
APPROX	APPROXIMATELY
AWG	AMERICAN WIRE GAUGE
BSD	BAYSHORE SANITARY DISTRICT
CCTV	CLOSED CIRCUIT TELEVISION
COMM	COMMUNICATION
DLC	DETECTOR LOOP CABLE
EB	EASTBOUND
EOC	ETHERNET OVER COPPER
EPA	EFFECTIVE PROJECTED AREA
EVP	EMERGENCY VEHICLE PREEMPTION
EX	EXISTING
FO	FIBER OPTIC
FTP	FIBER TERMINATION PANEL
HDD	HORIZONTAL DIRECTIONAL DRILLING
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN
LB	POUND
MAX	MAXIMUM
MIN	MINIMUM
MPOE	MAIN POINT OF ENTRY
MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
NO	NUMBER
OL	OVERLAP
PEC	PHOTO ELECTRIC CONTROL
PPB	PEDESTRIAN PUSH BUTTON
RT	REGIONAL TRANSIT
SIC	SIGNAL INTERCONNECT
SMFO	SINGLE MODE FIBER OPTIC
SSFM	SANITARY SEWER FORCE MAIN
SV	SPLICE VAULT
(T)	TRAFFIC-RATED (PULL BOX)
TB	TRAILBLAZER
WB	WESTBOUND

Job: Job 2024 - 5:34pm K:\Oak\15\09165008 - ccsag northern cities p&e - sra\04_CADD\plan sheets\CV-01_BRS.dwg
 May 08, 2024

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CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

COVER SHEET

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	1 of 44 SHEETS
SHEET NO.	CV-01

ENVIRONMENTAL COMMITMENTS:

BIOLOGICAL

1. CONTRACTOR SHALL HIRE CALTRANS-APPROVED BIOLOGIST PER THE ALLOWANCE IN THE SPECIFICATIONS TO CONDUCT PRE-CONSTRUCTION SURVEYS FOR BOTANICALS, NESTING RAPTORS, AND NESTING SONGBIRDS AS DESCRIBED IN THESE NOTES. IF THE BIOLOGIST IDENTIFIES ANY ENVIRONMENTALLY SENSITIVE AREAS (ESAs), CONTRACTOR SHALL PROTECT VEGETATION IN PLACE WITH TEMPORARY HIGH-VISIBILITY FENCE, SUBJECT TO BIOLOGIST APPROVAL.
2. DURING PRE-CONSTRUCTION BOTANICAL SURVEY, BIOLOGIST SHALL DESIGNATE SPECIAL-STATUS PLANTS AS ESAs. CONTRACTOR SHALL PROTECT ESAs IN PLACE WITH TEMPORARY HIGH VISIBILITY FENCE.
3. PROPOSED EQUIPMENT HAS BEEN PLACED TO AVOID CONFLICTS WITH TREES. IF PROPOSED EQUIPMENT LOCATIONS NEED TO BE ADJUSTED DUE TO UTILITY CONFLICTS, CONTRACTOR SHALL COORDINATE WITH RESIDENT ENGINEER AND BIOLOGIST TO AVOID LOCATIONS THAT WILL REQUIRE TREE REMOVAL OR PRUNING.
4. PRE-CONSTRUCTION BOTANICAL SURVEYS SHALL BE CONDUCTED IN GRASSLAND, COASTAL SCRUB, AND RUDERAL HABITATS. SURVEYS SHALL TAKE PLACE PRIOR TO INITIATING ANY GROUND-DISTURBING OR NOISE ACTIVITIES IN UNPAVED AREAS WITH EXPOSED SOILS, INCLUDING ROADSIDES AND SHOULDERS OR NEAR VEGETATION.
5. CONTRACTOR SHALL HIRE A CALTRANS-APPROVED BIOLOGIST PER THE ALLOWANCE IN THE SPECIFICATIONS TO CONDUCT PRE-CONSTRUCTION SURVEYS FOR NESTING RAPTORS NO MORE THAN 72 HOURS BEFORE CONSTRUCTION DURING THE NESTING SEASON (FEBRUARY 1 TO SEPTEMBER 30). SURVEYS SHALL INCLUDE ANY POTENTIAL RAPTOR NESTING SUBSTRATES, INCLUDING TALL BUILDINGS AND TREES, WITHIN 300 FEET OF CONSTRUCTION ACTIVITY. IF AN ACTIVE NEST IS FOUND DURING SURVEYS, CONTRACTOR SHALL PROTECT NESTING AREAS BASED ON SITE-SPECIFIC BUFFER RECOMMENDATIONS FROM APPROVED BIOLOGIST, AND THE BIOLOGIST SHALL BE RETAINED TO MONITOR NESTING DURING CONSTRUCTION. IF IT IS NECESSARY TO PREVENT BIRDS FROM NESTING AT A SPECIFIC LOCATION WITHIN THE CONSTRUCTION AREA, THE CONTRACTOR SHALL PREPARE A NESTING BIRD EXCLUSION PLAN TO BE APPROVED BY CALTRANS AND/OR THE CALIFORNIA DEPARTMENT OF FISH AND WDLIFE AND/OR THE U.S. FISH AND WDLIFE SERVICE PRIOR TO IMPLEMENTATION.
6. CONTRACTOR SHALL HIRE A CALTRANS-APPROVED BIOLOGIST PER THE ALLOWANCE IN THE SPECIFICATIONS TO CONDUCT PRE-CONSTRUCTION SURVEYS FOR NESTING SONGBIRDS NO MORE THAN 72 HOURS BEFORE CONSTRUCTION DURING THE NESTING SEASON (FEBRUARY 1 TO SEPTEMBER 30). SURVEYS SHALL INCLUDE ALL POTENTIAL SONGBIRD NESTING SUBSTRATES WITHIN 50 FEET OF CONSTRUCTION ACTIVITY, INCLUDING LANDSCAPING, SHRUBS, TREES, AND STRUCTURES. IF AN ACTIVE NEST IS FOUND DURING SURVEYS, THE NEST SITE SHALL BE DESIGNATED AS AN ESA AND THE CONTRACTOR SHALL PROTECT NESTING AREAS WHILE OCCUPIED WITH THE INSTALLATION OF A THVF BARRIER SURROUNDING EACH NEST SITE OR OTHER APPROPRIATE MARKERS. CONTRACTOR SHALL FOLLOW SITE-SPECIFIC BUFFER RECOMMENDATIONS DEVELOPED BY BIOLOGIST TO PROTECT NORMAL BIRD BEHAVIOR AND PREVENT NESTING FAILURE OR ABANDONMENT. THE BIOLOGIST SHALL BE RETAINED TO MONITOR NESTING DURING CONSTRUCTION. IF IT IS NECESSARY TO PREVENT BIRDS FROM NESTING AT A SPECIFIC LOCATION WITHIN THE CONSTRUCTION AREA, THE CONTRACTOR SHALL PREPARE A NESTING BIRD EXCLUSION PLAN TO BE APPROVED BY CALTRANS AND/OR THE CALIFORNIA DEPARTMENT OF FISH AND WDLIFE AND/OR THE U.S. FISH AND WDLIFE SERVICE PRIOR TO IMPLEMENTATION.
7. IF THE PROPOSED AREA OF WORK OR WORK PLAN CHANGES, CONTRACTOR SHALL PERFORM DUE DILIGENCE AND CONSULT WITH PROJECT BIOLOGIST TO VERIFY WHETHER ADDITIONAL BOTANICAL, NESTING RAPTOR, OR NESTING SONGBIRD SURVEYS WILL BE REQUIRED PER CEQA GUIDELINES.
8. NO CONSTRUCTION WORK SHALL OCCUR AND NO PERSONNEL SHALL SET FOOT WITHIN THE DESIGNATED ENVIRONMENTALLY SENSITIVE AREAS (ESAs)
9. VEGETATION REMOVAL SHALL BE LIMITED TO THE LEAST EXTENT POSSIBLE, SUBJECT TO APPROVAL BY THE BIOLOGIST.
10. CONSTRUCTION VEHICLES SHALL BE PROHIBITED FROM PARKING IN ANY UNPAVED AREAS ALONG LAGOON ROAD. NO STAGING OR LAYDOWN ACTIVITIES SHALL OCCUR ALONG LAGOON ROAD, EXCEPT WITHIN EXISTING PAVED AREAS.
11. BEFORE THE START OF WORK, THE CONTRACTOR SHALL FOLLOW DIRECTION OF A CALTRANS-APPROVED BIOLOGIST TO INSTALL TEMPORARY HIGH VISIBILITY FENCING AND PROTECT AQUATIC FEATURES NORTH OF LAGOON RD. SEE SHEET FO-16.

CULTURAL

12. IF THE PROPOSED AREA OF WORK OR WORK PLAN CHANGES, CONTRACTOR SHALL PERFORM DUE DILIGENCE AND CONSULT WITH PROJECT ARCHAEOLOGIST TO VERIFY WHETHER ADDITIONAL CULTURAL RESOURCE STUDIES WILL BE REQUIRED PER CEQA GUIDELINES.
13. THE RESIDENT ENGINEER WILL BE RESPONSIBLE FOR NOTIFYING CALTRANS DISTRICT 4 OFFICE OF CULTURAL RESOURCE STUDIES AND THE PROJECT ARCHAEOLOGIST (510-286-5615) TWO WEEKS PRIOR TO CONSTRUCTION TO DELINEATE CULTURAL ESA PARAMETERS IN THE FIELD PRIOR TO THE START OF WORK.
14. CALTRANS DISTRICT PROFESSIONALLY QUALIFIED STAFF (PQS) SHALL REPORT ALL CULTURAL ESA VIOLATIONS TO HEADQUARTERS CULTURAL STUDIES OFFICE (CSO) WITHIN 48 HOURS (510-286-5615).
15. IN THE EVENT THAT A CULTURAL ESA IS BREACHED, THE CONTRACTOR AND RESIDENT ENGINEER SHALL NOTIFY THE CALTRANS CSO (510-286-5615) IMMEDIATELY.
16. IN THE EVENT THAT SUBSURFACE CULTURAL RESOURCES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY HALT WORK IN THE AREA OF FINDS UNTIL A QUALIFIED ARCHAEOLOGIST CAN EVALUATE THEM AND RECOMMEND MITIGATION.
17. CONTRACTOR SHALL CONDUCT SPOT MONITORING AND PHOTO DOCUMENTATION AT VARIOUS TIMES THROUGHOUT PROJECT CONSTRUCTION TO ENSURE INTEGRITY OF ESAs AND PROTECTION OF CULTURAL RESOURCES. THIS INFORMATION SHALL BE SUBMITTED TO THE RESIDENT ENGINEER UPON REQUEST.
18. CONTRACTOR SHALL INSTALL TEMPORARY HIGH VISIBILITY FENCING AT LEAST ONE WEEK PRIOR TO INITIATING ANY GROUND DISTURBANCE. THE RESIDENT ENGINEER SHALL COORDINATE THE ACTIVITY WITH THE PROJECT ARCHAEOLOGIST. THE PROJECT ARCHAEOLOGIST MUST BE PRESENT TO SUPERVISE AND MONITOR THIS ACTIVITY. CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND PROJECT ARCHAEOLOGIST TO REMOVE HIGH VISIBILITY FENCING AT THE CONCLUSION OF CONSTRUCTION.
19. BEFORE THE START OF WORK, THE CONTRACTOR SHALL INSTALL TEMPORARY HIGH VISIBILITY FENCING AROUND CULTURAL ESA ON SHEETS FO-02 AND FO-03. FENCING SHALL EXTEND FOR 50 FEET ALONG THE EDGE OF PAVEMENT. AT THE NORTH AND SOUTH ENDS, FENCING SHALL EXTEND AT 45 DEGREE ANGLES TO EXISTING FENCE LINE.
20. CONTRACTOR SHALL WORK WITH THE RESIDENT ENGINEER AND WATER QUALITY SPECIALIST TO IMPLEMENT A WATER POLLUTION CONTROL PLAN.
21. THE RESIDENT ENGINEER SHALL INFORM THE PROJECT ARCHAEOLOGIST WHEN CONSTRUCTION IS COMPLETE.

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NO.	BY	DATE	DESCRIPTION

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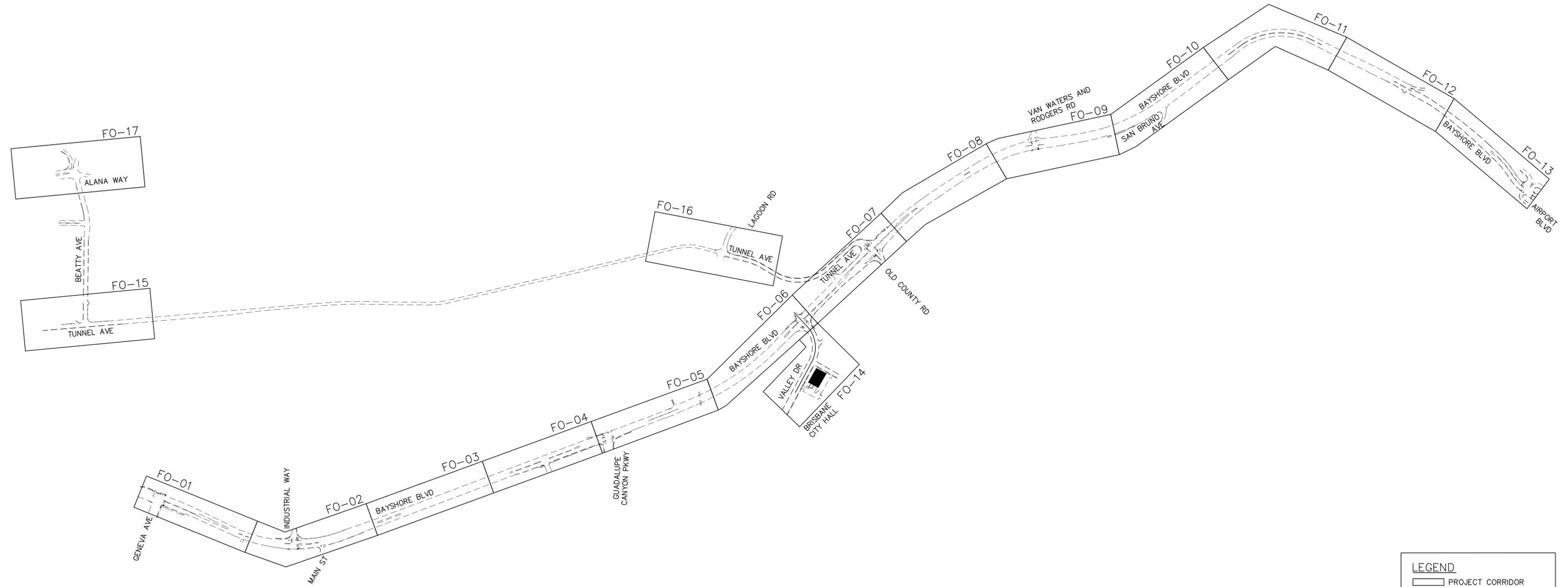
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DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

GENERAL NOTES

JOB NO.
DATE MAY 2024
SCALE AS NOTED
SHEET 2A of 44 SHEETS
SHEET NO. GN-01A

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 May 08, 2024



KEY MAP
NOT TO SCALE

LEGEND

- PROJECT CORRIDOR
- CITY HALL / CITY CORPORATION YARD



NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

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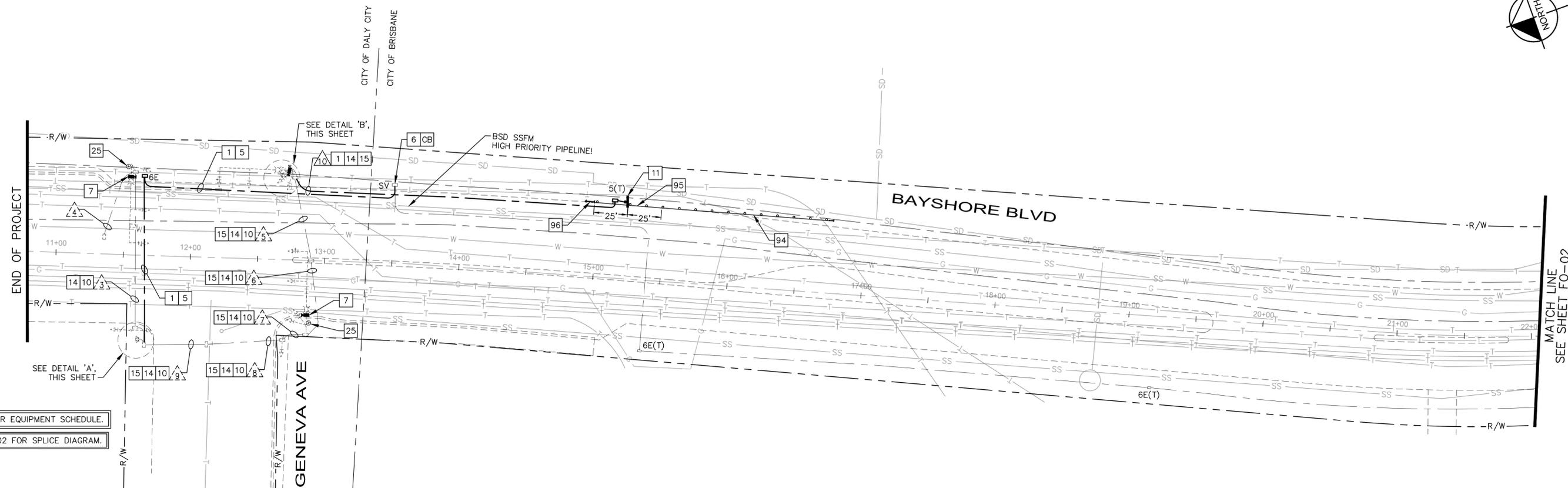
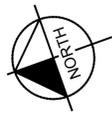


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DESIGNED BY:	SAR
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APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

KEY MAP

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	4 OF 44 SHEETS
SHEET NO.	KM-01



SEE ES-01 FOR EQUIPMENT SCHEDULE.

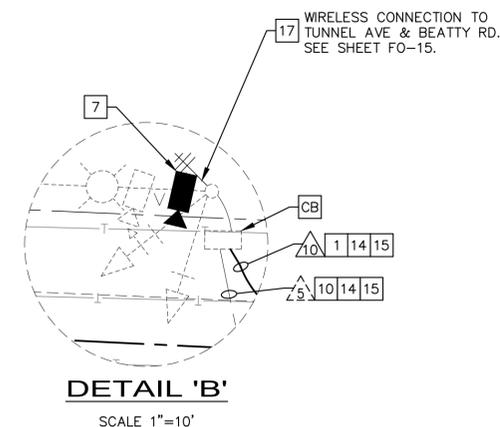
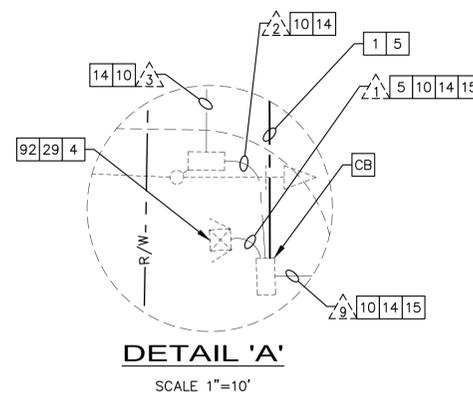
SEE SC-02 FOR SPLICE DIAGRAM.

CONSTRUCTION NOTES:

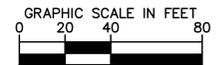
- 1 FURNISH AND INSTALL 2" CONDUIT.
- 4 FURNISH AND INSTALL NEW ETHERNET SWITCH AND FIBER OPTIC TERMINATION PANEL. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 5 FURNISH AND INSTALL 12-STRAND FIBER OPTIC BRANCH CABLE AND #12 TRACER WIRE.
- 6 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN SPLICE VAULT. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 7 FURNISH AND INSTALL CCTV CAMERA ON LUMINAIRE MAST ARM. SEE SHEET DT-08 FOR DETAILS.
- 10 FURNISH AND INSTALL CCTV POWER CABLE(S) FOR FIXED CAMERA IN CONDUIT. CABLES PER MANUFACTURER SPECIFICATION.
- 11 FURNISH AND INSTALL TRAILBLAZER SIGN AND POLE. SEE SHEET DT-02 FOR DETAILS.
- 14 FURNISH AND INSTALL OUTDOOR-RATED CAT6A CABLE(S) IN CONDUIT. REFER TO EQUIPMENT SCHEDULES ON ES-01 TO ES-08 FOR NUMBER OF CABLES.
- 15 FURNISH AND INSTALL #8 CABLES IN CONDUIT. REFER TO EQUIPMENT SCHEDULES ON ES-01 TO ES-08 FOR NUMBER OF CABLES.
- 17 FURNISH AND INSTALL WIRELESS RADIO ON POLE. SEE SHEET DT-05 FOR DETAILS.
- 25 FURNISH AND INSTALL MICROWAVE VEHICLE DETECTION SYSTEM ON EXISTING POLE. SEE SHEET DT-01 FOR DETAILS.
- 29 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL 2070 TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
- 92 EXISTING SERVICE PANEL ON SIDE OF CONTROLLER CABINET. FURNISH AND INSTALL ONE 30A, 120V, 1P, CB FOR CONNECTION TO NEW TRAILBLAZER SIGN. CONTRACTOR SHALL TEST EXISTING LOAD ON MAIN BREAKER AND PROVIDE TO ENGINEER FOR CONFIRMATION PRIOR TO BEGINNING WORK.
- 94 FURNISH AND INSTALL IN-LINE TERMINAL SYSTEM FOR TYPE 16A LAYOUT END TREATMENT PER CALTRANS STANDARD PLANS.
- 95 FURNISH AND INSTALL MIDWEST GUARDRAIL SYSTEM IN TYPE 16A LAYOUT PER CALTRANS STANDARD PLANS A77R3. GUARDRAIL TO BE INSTALLED AT EDGE OF PAVEMENT.
- 96 FURNISH AND INSTALL TYPE SFT-M END ANCHOR ASSEMBLY IN TYPE 16A LAYOUT PER CALTRANS STANDARD PLANS A77R3.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

GENERAL NOTES:

- 1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAYED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCRoACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.



STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



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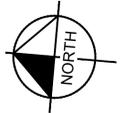


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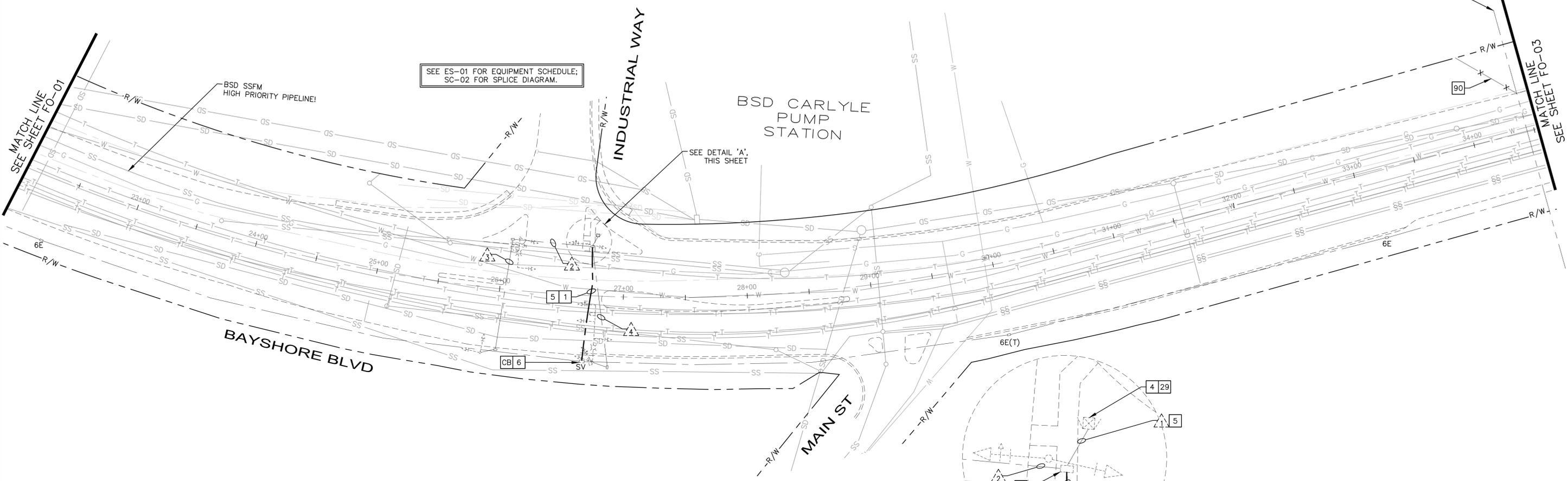
**SMART CORRIDORS
 NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 5 OF 44 SHEETS
 SHEET NO. _____
 FO-01



APPROXIMATE LIMIT OF CULTURAL RESOURCES



SEE ES-01 FOR EQUIPMENT SCHEDULE;
SC-02 FOR SPLICE DIAGRAM.

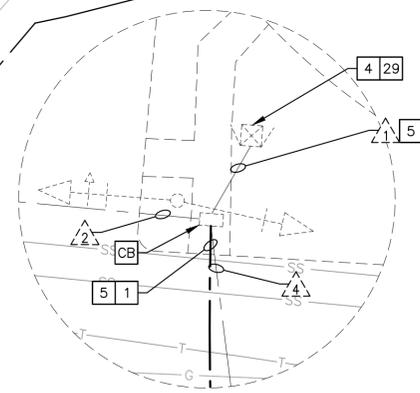
SEE DETAIL 'A',
THIS SHEET

CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL 2" CONDUIT.
- 4 FURNISH AND INSTALL NEW ETHERNET SWITCH AND FIBER OPTIC TERMINATION PANEL. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 5 FURNISH AND INSTALL 12-STRAND FIBER OPTIC BRANCH CABLE AND #12 TRACER WIRE.
- 6 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN SPLICE VAULT. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 29 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL 2070 TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
- 90 BEFORE THE START OF WORK, INSTALL TEMPORARY HIGH-VISIBILITY FENCING AROUND CULTURAL ESA. FENCING SHALL EXTEND FOR 50 FEET ALONG THE EDGE OF PAVEMENT. AT THE NORTH AND SOUTH ENDS, FENCING SHALL EXTEND AT 45 DEGREE ANGLES TO EXISTING FENCE LINE.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

GENERAL NOTES:

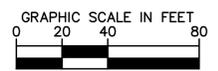
- 1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAIN WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.



DETAIL 'A'

SCALE 1"=10'

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Job: Job No. 2024 - 5:36pm K:\Oak\15\09156008 - ccsag northern cities.pbx - sra\04-CADD\plan sheets\32 FO-27.dwg

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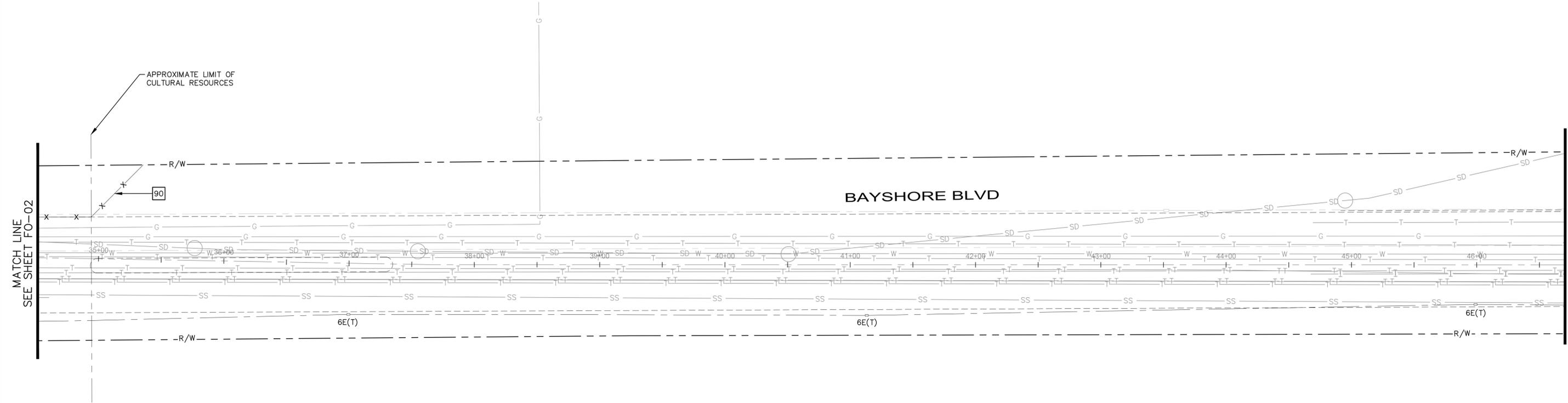


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 APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 6 OF 44 SHEETS
 SHEET NO. _____
 FO-02



CONSTRUCTION NOTES:

90 BEFORE THE START OF WORK, INSTALL TEMPORARY HIGH VISIBILITY FENCING AROUND CULTURAL ESA. FENCING SHALL EXTEND FOR 50 FEET ALONG THE EDGE OF PAVEMENT. AT THE NORTH AND SOUTH ENDS, FENCING SHALL EXTEND AT 45 DEGREE ANGLES TO EXISTING FENCE LINE.

GENERAL NOTES:

1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAYED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: Kello May 08, 2024 - 5:36pm K:\Oak\15\09166008 - ccsa northern cities p&e - sra\04_CADD\plan sheets\33 FO-28.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

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 APPROVED BY: RCE

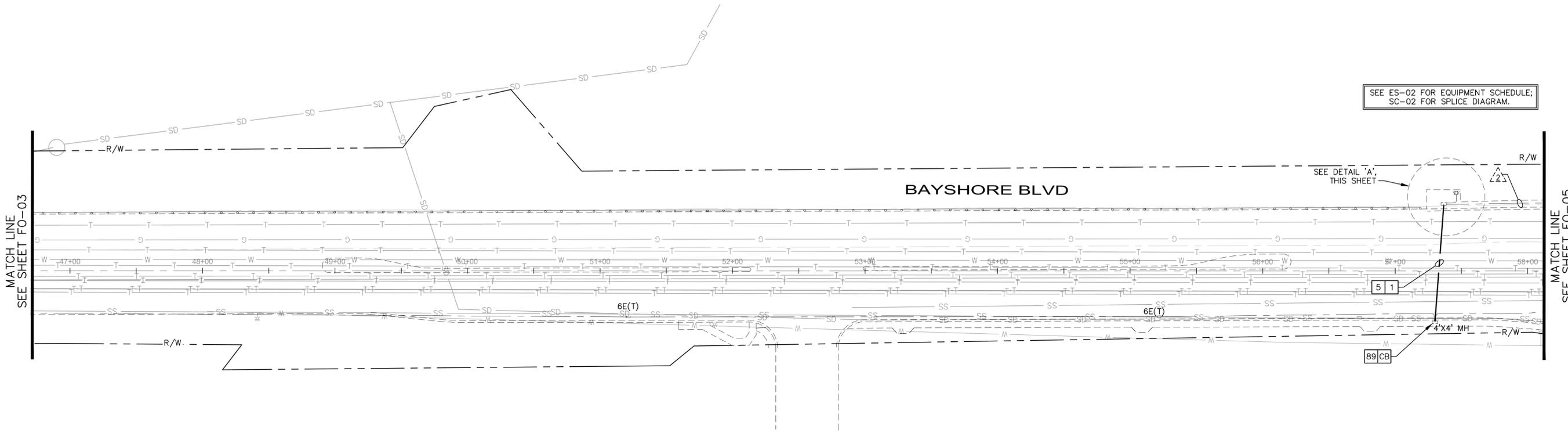
**SMART CORRIDORS
 NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 7 OF 44 SHEETS
 SHEET NO. _____
 FO-03



SEE ES-02 FOR EQUIPMENT SCHEDULE;
SC-02 FOR SPLICE DIAGRAM.

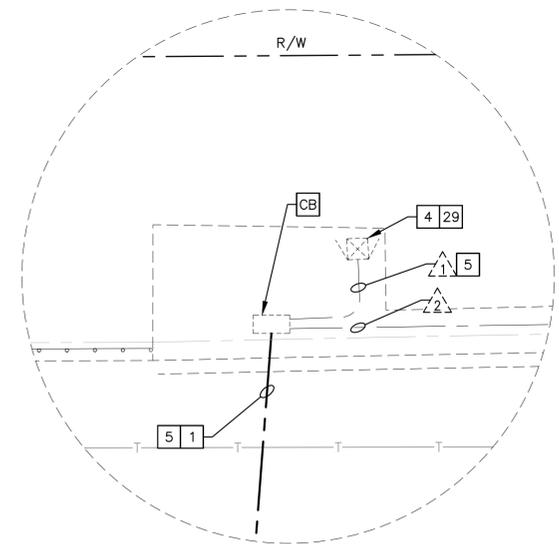


CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL 2" CONDUIT.
- 4 FURNISH AND INSTALL NEW ETHERNET SWITCH AND FIBER OPTIC TERMINATION PANEL. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 5 FURNISH AND INSTALL 12-STRAND FIBER OPTIC BRANCH CABLE AND #12 TRACER WIRE.
- 29 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL 2070 TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
- 89 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN 4'X4' MANHOLE. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

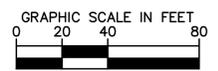
GENERAL NOTES:

- 1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAYED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.



DETAIL 'A'
SCALE 1"=10'

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: Job No. 2024 - 5:36pm K:\Oak\15\09156008 - ccsa northern cities.pbx - ssp\04_CADD\plan_sheets\34_FO-29.dwg

REVISIONS			REVISIONS				
NO.	BY.	DATE	DESCRIPTION	NO.	BY.	DATE	DESCRIPTION

Kimley»Horn
1300 Clay Street, Suite 325 Tel. No. (510)625-0712
Oakland, California 94612 Fax No. (916)608-0885

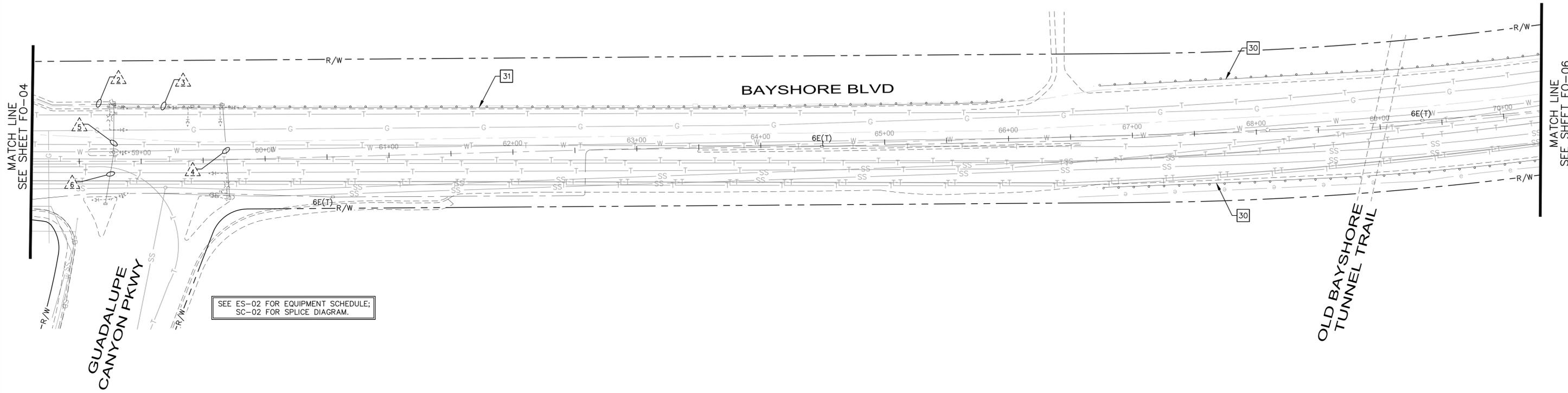


DRAWN BY: MEW
DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
DATE MAY 2024
SCALE AS NOTED
SHEET 8 OF 44 SHEETS
SHEET NO. _____
FO-04



MATCH LINE
SEE SHEET FO-04

MATCH LINE
SEE SHEET FO-06

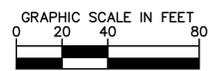
CONSTRUCTION NOTES:

- 30 EXISTING GUARDRAIL TO BE PROTECTED IN PLACE.
- 31 EXISTING CONCRETE BARRIER TO BE PROTECTED IN PLACE.

GENERAL NOTES:

1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAYED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: K:\04_2024 - 5:27pm K:\04_2024\04_09\15\09156008 - ccsag northern cities.pbx - sra\04_CADD\plan sheets\35 FO-30.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

Kimley»Horn
 1300 Clay Street, Suite 325 Tel. No. (510)625-0712
 Oakland, California 94612 Fax No. (916)608-0885

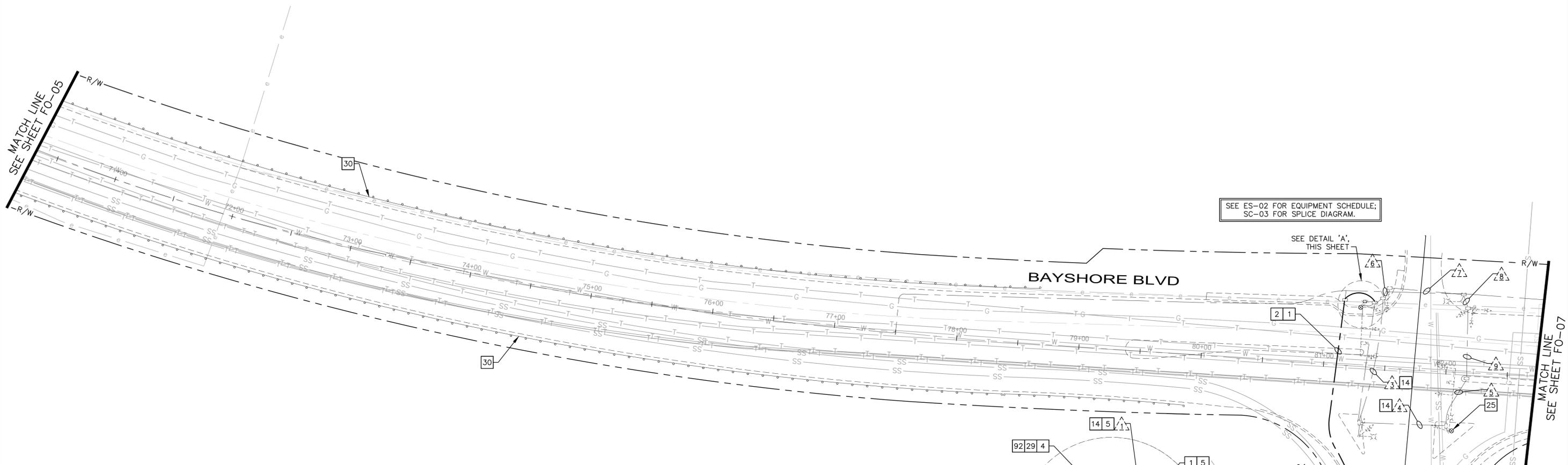


DRAWN BY:	MEW
DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	9 OF 44 SHEETS
SHEET NO.	FO-05



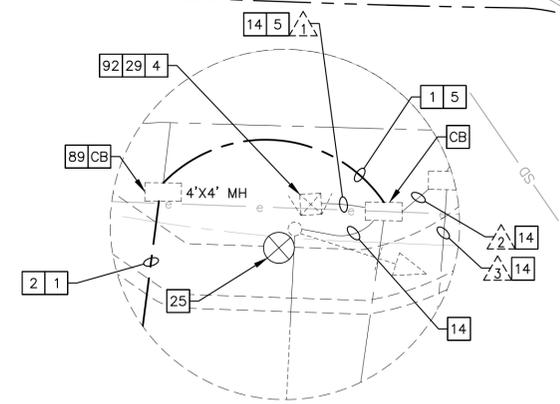
SEE ES-02 FOR EQUIPMENT SCHEDULE;
SC-03 FOR SPLICE DIAGRAM.

SEE DETAIL 'A',
THIS SHEET

BAYSHORE BLVD

VALLEY DR

MATCH LINE
SEE SHEET FO-14



DETAIL 'A'
SCALE 1"=10'

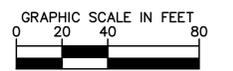
CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL 2" CONDUIT.
- 2 FURNISH AND INSTALL 144-STRAND FIBER OPTIC TRUNK CABLE AND TRACER WIRE.
- 4 FURNISH AND INSTALL NEW ETHERNET SWITCH AND FIBER OPTIC TERMINATION PANEL. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 5 FURNISH AND INSTALL 12-STRAND FIBER OPTIC BRANCH CABLE AND #12 TRACER WIRE.
- 14 FURNISH AND INSTALL OUTDOOR-RATED CAT6A CABLE(S) IN CONDUIT. REFER TO EQUIPMENT SCHEDULES ON ES-01 TO ES-08 FOR NUMBER OF CABLES.
- 25 FURNISH AND INSTALL MICROWAVE VEHICLE DETECTION SYSTEM ON EXISTING POLE. SEE SHEET DT-01 FOR DETAILS.
- 29 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL 2070 TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
- 30 EXISTING GUARDRAIL TO BE PROTECTED IN PLACE.
- 89 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN 4'X4' MANHOLE. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 92 EXISTING SERVICE PANEL ON SIDE OF CONTROLLER CABINET. FURNISH AND INSTALL ONE 30A, 120V, 1P, CB FOR CONNECTION TO NEW TRAILBLAZER SIGN. CONTRACTOR SHALL TEST EXISTING LOAD ON MAIN BREAKER AND PROVIDE TO ENGINEER FOR CONFIRMATION PRIOR TO BEGINNING WORK.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

GENERAL NOTES:

- 1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAYED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: Job No. 2024 - 5:27pm K:\DWG\15\09715008 - ccsa northern cities.pbx - sra\04_CADD\plan sheets\36 FO-31.dwg

REVISIONS			REVISIONS				
NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION

Kimley»Horn

1300 Clay Street, Suite 325 Tel. No. (510)625-0712
Oakland, California 94612 Fax No. (916)608-0885



DRAWN BY: MEW
DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
DATE MAY 2024
SCALE AS NOTED
SHEET 10 OF 44 SHEETS
SHEET NO. _____
FO-06



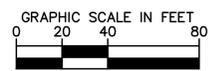
MATCH LINE
SEE SHEET FO-07

MATCH LINE
SEE SHEET FO-09

CONSTRUCTION NOTES:

NO WORK ON THIS SHEET. SHOWN FOR CORRIDOR CONTINUITY.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: K:\04_CADD\plan_sheets\38 FO-33.dwg May 08, 2024 - 5:38pm K:\04_CADD\plan_sheets\38 FO-33.dwg

NO.	BY	DATE	REVISIONS DESCRIPTION

NO.	BY	DATE	REVISIONS DESCRIPTION

Kimley»Horn

1300 Clay Street, Suite 325 Tel. No. (510)625-0712
Oakland, California 94612 Fax No. (916)608-0885

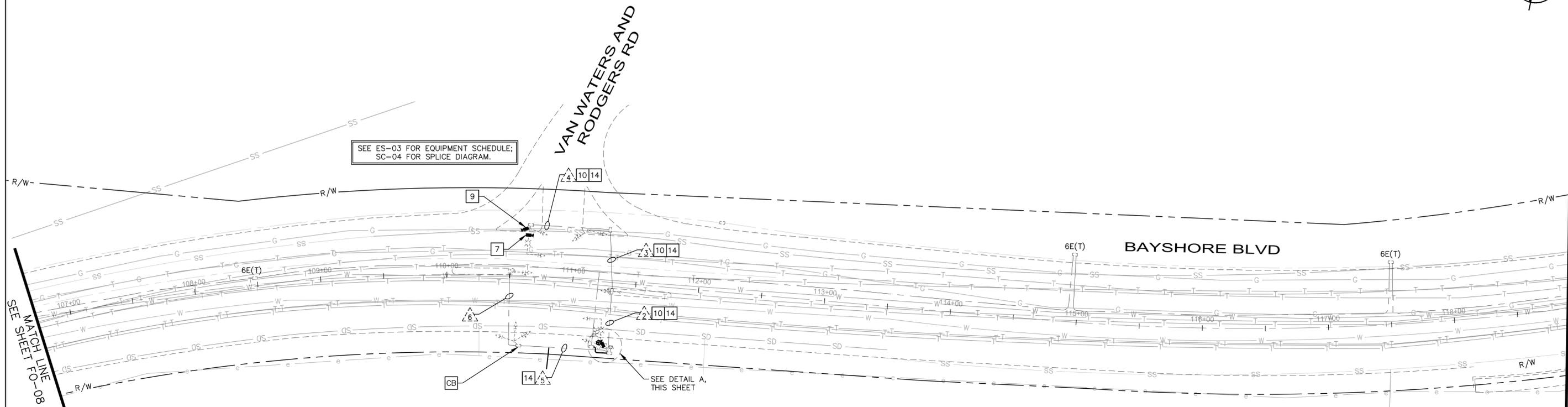
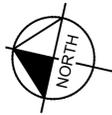


DRAWN BY: MEW
DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
DATE MAY 2024
SCALE AS NOTED
SHEET 12 of 44 SHEETS
SHEET NO. _____
FO-08

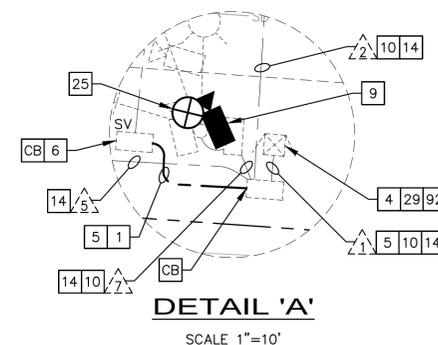


CONSTRUCTION NOTES:

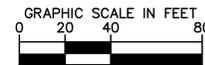
- 1 FURNISH AND INSTALL 2" CONDUIT.
- 4 FURNISH AND INSTALL NEW ETHERNET SWITCH AND FIBER OPTIC TERMINATION PANEL. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 5 FURNISH AND INSTALL 12-STRAND FIBER OPTIC BRANCH CABLE AND #12 TRACER WIRE.
- 6 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN SPLICE VAULT. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 7 FURNISH AND INSTALL CCTV CAMERA ON LUMINAIRE MAST ARM. SEE SHEET DT-08 FOR DETAILS.
- 9 FURNISH AND INSTALL FIXED CCTV CAMERA ON TRAFFIC SIGNAL POLE. SEE SHEET DT-08 FOR DETAILS.
- 10 FURNISH AND INSTALL CCTV POWER CABLE(S) FOR FIXED CAMERA IN CONDUIT. CABLES PER MANUFACTURER SPECIFICATION.
- 14 FURNISH AND INSTALL OUTDOOR-RATED CAT6A CABLE(S) IN CONDUIT. REFER TO EQUIPMENT SCHEDULES ON ES-01 TO ES-08 FOR NUMBER OF CABLES.
- 25 FURNISH AND INSTALL MICROWAVE VEHICLE DETECTION SYSTEM ON EXISTING POLE. SEE SHEET DT-01 FOR DETAILS.
- 29 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL 2070 TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
- 92 EXISTING SERVICE PANEL ON SIDE OF CONTROLLER CABINET. FURNISH AND INSTALL ONE 30A, 120V, 1P, CB FOR CONNECTION TO NEW TRAILBLAZER SIGN. CONTRACTOR SHALL TEST EXISTING LOAD ON MAIN BREAKER AND PROVIDE TO ENGINEER FOR CONFIRMATION PRIOR TO BEGINNING WORK.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

GENERAL NOTES:

- 1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAYED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.



STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: Job 09_2024 - 5:39pm K:\000\15\09156008 - ccsag northern cities pb&e - sdr\04_CADD\plan sheets\39 FO-34.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

Kimley»Horn
 1300 Clay Street, Suite 325 Tel. No. (510)625-0712
 Oakland, California 94612 Fax No. (916)608-0885

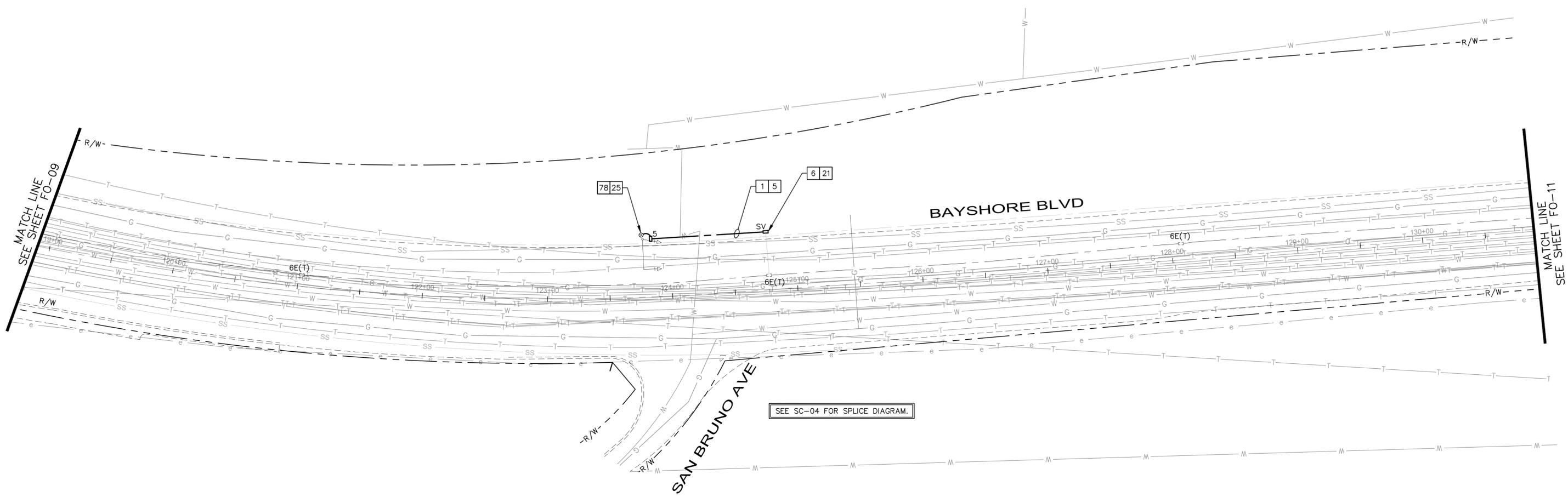


DRAWN BY: MEW
 DESIGNED BY: SAR
 CHECKED BY: RRD
 APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 13 of 44 SHEETS
 SHEET NO. _____
 FO-09



SEE SC-04 FOR SPLICE DIAGRAM.

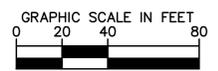
CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL 2" CONDUIT.
- 5 FURNISH AND INSTALL 12-STRAND FIBER OPTIC BRANCH CABLE AND #12 TRACER WIRE.
- 6 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN SPLICE VAULT. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 21 UPGRADE EXISTING PULL BOX TO SPLICE VAULT PER DETAIL ON DT-06.
- 25 FURNISH AND INSTALL MICROWAVE VEHICLE DETECTION SYSTEM ON EXISTING POLE. SEE SHEET DT-01 FOR DETAILS.
- 78 FURNISH AND INSTALL NEW ETHERNET SWITCH AND FIBER OPTIC TERMINATION PANEL IN MVDS ENCLOSURE. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.

GENERAL NOTES:

- 1. BAYSHORE BOULEVARD ORIGINAL ROADWAY DESIGN INCLUDED A CONCRETE SECTION APPROXIMATELY 12" THICK THAT IS APPROXIMATELY 40' WIDE AND GENERALLY CENTERED ON THE HIGHWAY CENTERLINE. THAT SECTION IS NOW OVERLAPPED WITH UP TO 6" OF A.C. PLANS DEPICTING THE EXACT LOCATION OF THE CONCRETE SECTION ARE NOT AVAILABLE. IF THE CONCRETE SECTION IS ENCROACHED DURING CONSTRUCTION, REPAIRS SHALL BE MADE BY DOWELING 18" #4 REBARS 6" INTO CENTER MASS OF SLAB ON BOTH SIDES OF EXPOSED CONCRETE AND BACKFILLING WITH 6-SACK 3/4" CONCRETE MIX.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: JobInfo May 08, 2024 - 5:39pm K:\Oak\15\09166008 - ccsa northern cities.pbx - ssc\04_CADD\plan_sheets\04_FO-35.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

Kimley»Horn
 1300 Clay Street, Suite 325 Tel. No. (510)625-0712
 Oakland, California 94612 Fax No. (916)608-0885

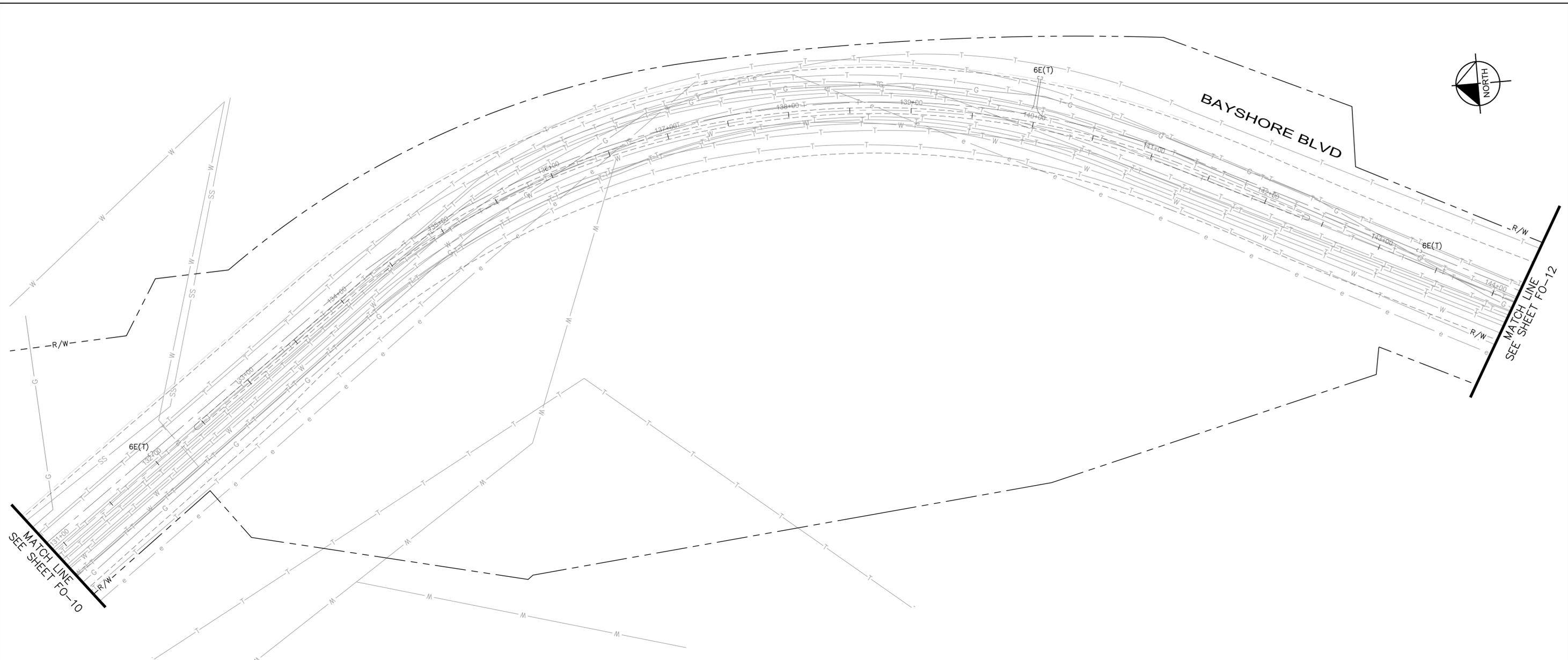
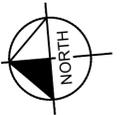


DRAWN BY:	MEW
DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

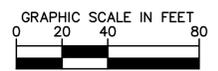
JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	14 OF 44 SHEETS
SHEET NO.	FO-10



CONSTRUCTION NOTES:

NO WORK ON THIS SHEET. SHOWN FOR CORRIDOR CONTINUITY.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: K:\04_015\09165008 - ccsa northern cities.pdx - sra\04_CADD\plan_sheets\01_FO-36.dwg May 08, 2024 - 5:39pm K:\04_015\09165008 - ccsa northern cities.pdx - sra\04_CADD\plan_sheets\01_FO-36.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

Kimley»Horn
 1300 Clay Street, Suite 325 Tel. No. (510)625-0712
 Oakland, California 94612 Fax No. (916)608-0885

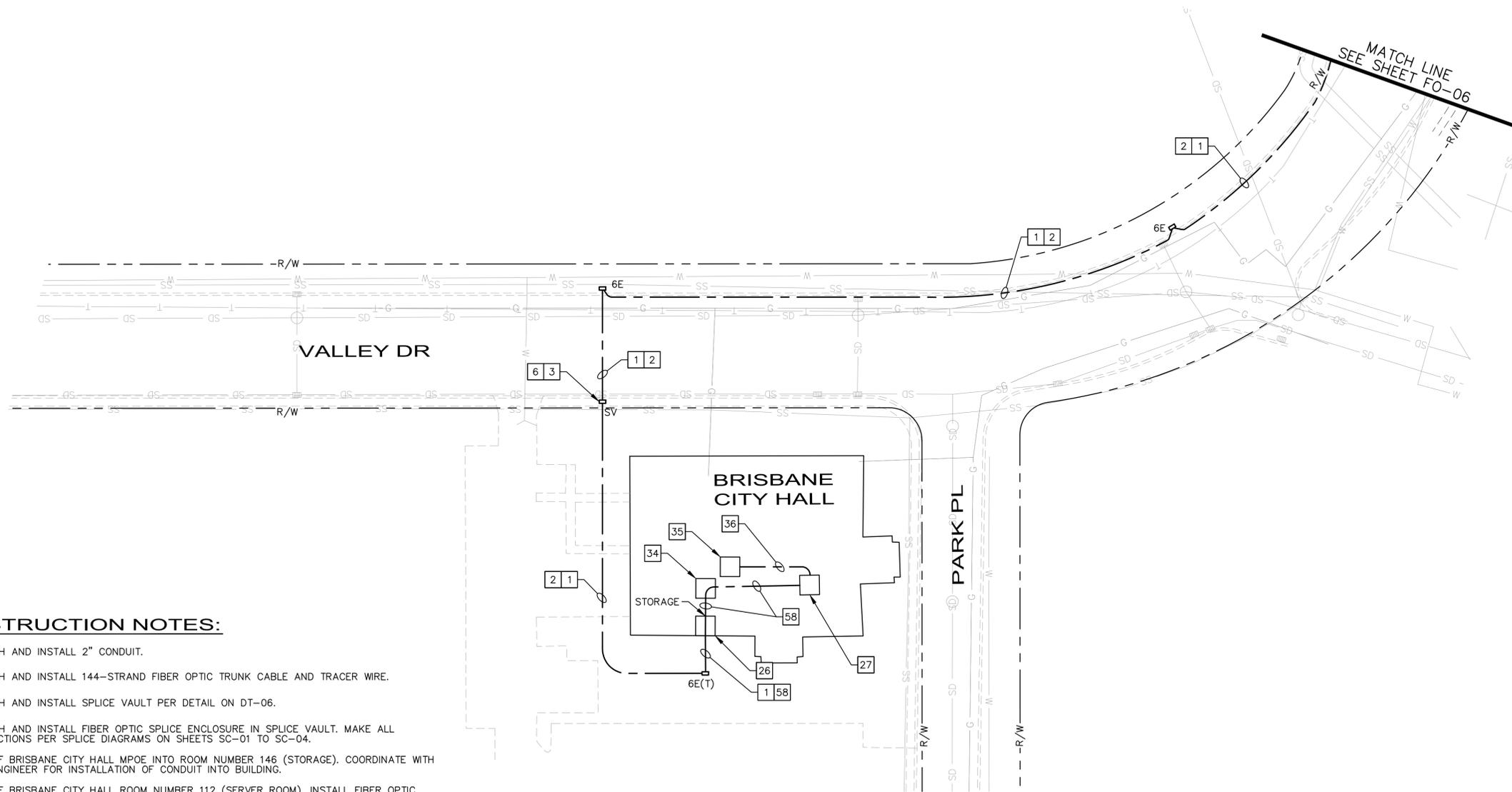


DRAWN BY:	MEW
DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

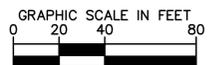
JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	15 of 44 SHEETS
SHEET NO.	FO-11



CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL 2" CONDUIT.
- 2 FURNISH AND INSTALL 144-STRAND FIBER OPTIC TRUNK CABLE AND TRACER WIRE.
- 3 FURNISH AND INSTALL SPLICE VAULT PER DETAIL ON DT-06.
- 6 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE IN SPLICE VAULT. MAKE ALL CONNECTIONS PER SPLICE DIAGRAMS ON SHEETS SC-01 TO SC-04.
- 26 CITY OF BRISBANE CITY HALL MPOE INTO ROOM NUMBER 146 (STORAGE). COORDINATE WITH CITY ENGINEER FOR INSTALLATION OF CONDUIT INTO BUILDING.
- 27 CITY OF BRISBANE CITY HALL ROOM NUMBER 112 (SERVER ROOM). INSTALL FIBER OPTIC CENTRAL EQUIPMENT AND RACK AND TERMINATE FIBER OPTIC TRUNK CABLE.
- 34 CITY OF BRISBANE CITY HALL ROOM NUMBER 148 (STORAGE).
- 35 CITY OF BRISBANE CITY HALL TMC STATION. CONTRACTOR SHALL TERMINATE ALL CABLES INTO NEW WORK STATION.
- 36 FURNISH AND INSTALL ETHERNET CABLE. ROUTE CONDUIT ATTACHED TO CEILING USING J-HANGERS ABOVE CEILING TILES.
- 58 FURNISH AND INSTALL FIRE-RATED 144-STRAND FIBER OPTIC TRUNK CABLE. ROUTE CONDUIT ATTACHED TO CEILING USING J-HANGERS ABOVE CEILING TILES.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: K:\04_CADD\plan_sheets\44_FO-39.dwg May 08, 2024 - 5:40pm K:\04_CADD\plan_sheets\44_FO-39.dwg - ccs3 northern cities.pbx - sar\04_CADD\plan_sheets\44_FO-39.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

Kimley»Horn

1300 Clay Street, Suite 325 Tel. No. (510)625-0712
Oakland, California 94612 Fax No. (916)608-0885

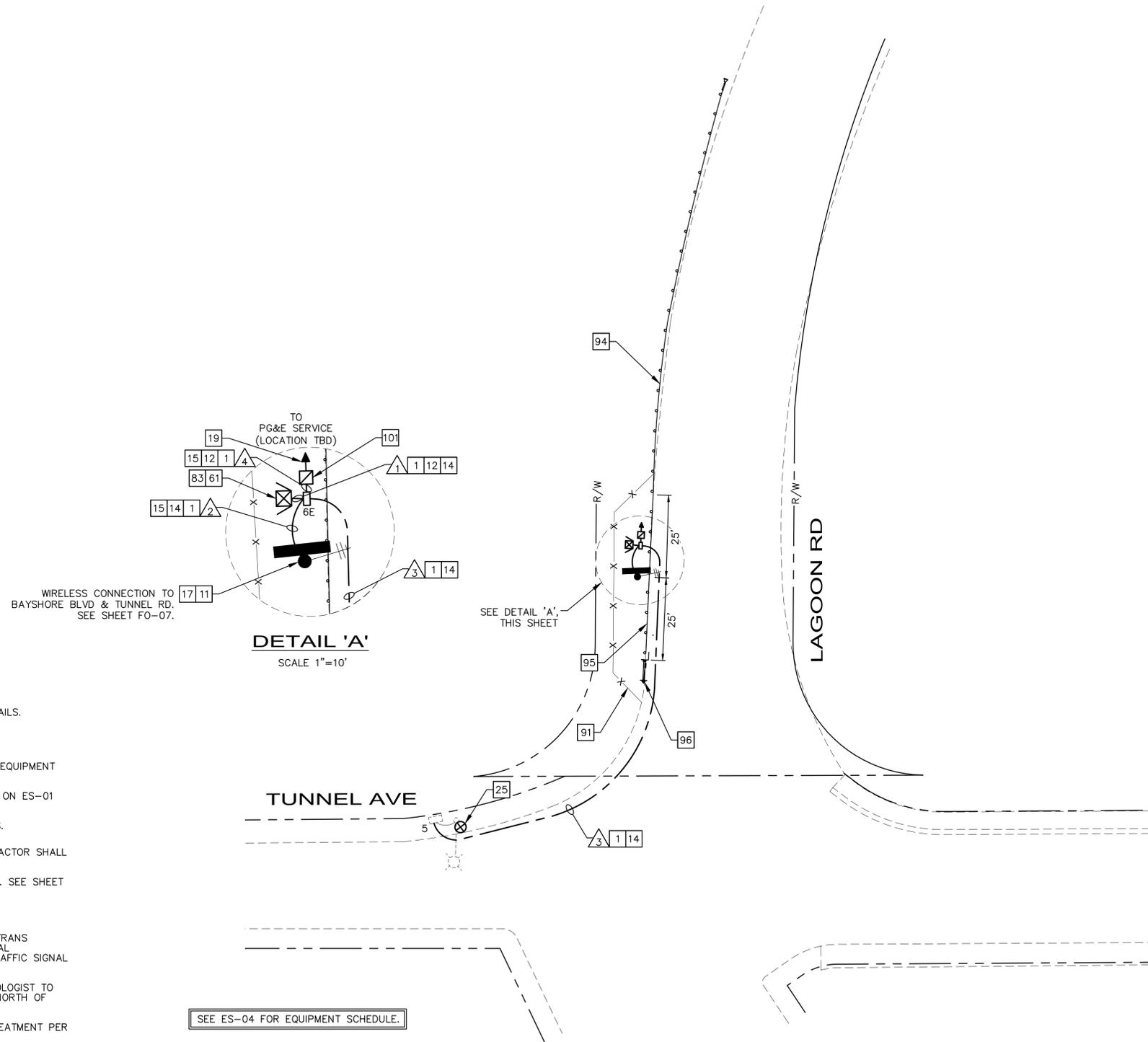


DRAWN BY:	MEW
DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

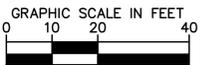
JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	18 OF 44 SHEETS
SHEET NO.	FO-14



CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL 2" CONDUIT.
- 11 FURNISH AND INSTALL TRAILBLAZER SIGN AND POLE. SEE SHEET DT-02 FOR DETAILS.
- 12 FURNISH AND INSTALL 2#2 (SERVICE) AND 1#2 (GROUND) IN CONDUIT.
- 14 FURNISH AND INSTALL OUTDOOR-RATED CAT6A CABLE(S) IN CONDUIT. REFER TO EQUIPMENT SCHEDULES ON ES-01 TO ES-08 FOR NUMBER OF CABLES.
- 15 FURNISH AND INSTALL #8 CABLES IN CONDUIT. REFER TO EQUIPMENT SCHEDULES ON ES-01 TO ES-08 FOR NUMBER OF CABLES.
- 17 FURNISH AND INSTALL WIRELESS RADIO ON POLE. SEE SHEET DT-05 FOR DETAILS.
- 19 PG&E CONNECTION POINT APPROXIMATELY 300 LF AWAY FROM PULL BOX. CONTRACTOR SHALL COORDINATE WITH PG&E FOR CONNECTION TO POWER.
- 25 FURNISH AND INSTALL MICROWAVE VEHICLE DETECTION SYSTEM ON EXISTING POLE. SEE SHEET DT-01 FOR DETAILS.
- 61 FURNISH AND INSTALL NEW ETHERNET SWITCH.
- 83 FURNISH AND INSTALL NEW CONTROLLER CABINET ON NEW FOUNDATION PER CALTRANS STANDARD PLANS ES-3A TO ES-3C2. FURNISH AND INSTALL 2070 TRAFFIC SIGNAL CONTROLLER ASSEMBLY. FURNISH AND INSTALL ALL EQUIPMENT REQUIRED FOR TRAFFIC SIGNAL OPERATIONS.
- 91 BEFORE THE START OF WORK, FOLLOW DIRECTION OF A CALTRANS-APPROVED BIOLOGIST TO INSTALL TEMPORARY HIGH VISIBILITY FENCING AND PROTECT AQUATIC FEATURES NORTH OF LAGOON RD.
- 94 FURNISH AND INSTALL IN-LINE TERMINAL SYSTEM FOR TYPE 16A LAYOUT END TREATMENT PER CALTRANS STANDARD PLANS.
- 95 FURNISH AND INSTALL MIDWEST GUARDRAIL SYSTEM IN TYPE 16A LAYOUT PER CALTRANS STANDARD PLANS A77R3. GUARDRAIL TO BE INSTALLED AT EDGE OF PAVEMENT.
- 96 FURNISH AND INSTALL TYPE SFT-M END ANCHOR ASSEMBLY IN TYPE 16A LAYOUT PER CALTRANS STANDARD PLANS A77R3.
- 101 FURNISH AND INSTALL TYPE III SERVICE PEDESTAL PER CALTRANS STANDARD PLAN ES-2D. INSTALL ITEMS 1-8, 15, AND ONE 30A, 120V, 1P, CB FOR CONNECTION TO NEW TRAILBLAZER SIGN.

STATIONING HAS BEEN PROVIDED FOR REFERENCE ONLY. ELECTRICAL PLANS ARE SCHEMATIC AND LOCATIONS OF PROPOSED EQUIPMENT SHALL BE FIELD CONFIRMED BASED ON SITE CONDITIONS AND APPROVED BY THE ENGINEER.



Job: Job No. 2024 - 5:41pm K:\04\115\097156008 - ccog northern cities ps&e - sct\04-CADD\plan sheets\16 FO-41.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

Kimley»Horn

1300 Clay Street, Suite 325 Tel. No. (510)625-0712
Oakland, California 94612 Fax No. (916)608-0885



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DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

COMMUNICATIONS AND ELECTRICAL

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	20 OF 44 SHEETS
SHEET NO.	FO-16

**BAYSHORE BLVD &
GUADALUPE CANYON PKWY
(FO-04/FO-05)**

CONDUCTOR SCHEDULE							
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS					
		1	2	3	4	5	6
#14	Ø2	6	6	3			
	Ø4	3	3	3			
	Ø5	3	3			3	3
	Ø6	3	3	3	3	3	3
	Ø4P	4	4			2	2
	Ø6P	2	2		2	2	2
	Ø4PPB	2	2			1	1
	Ø6PPB	1	1		1	1	1
	PPB NEUTRAL	2	2	1	1	1	1
	SPARES	6	6	3	3	3	3
	TOTAL #14	32	32	13	10	16	16
	#8	LIGHTING (240V)		2	2	2	
SIGNAL COMMON (120V)		1	1	1	1	1	1
TOTAL #8		1	3	3	3	1	1
OTHER	VIDEO DETECTION CABLE	3	3	1	1		
	VIDEO DETECTION POWER	3	3	1	1		
	12-SMFO	1 _N					
CONDUIT FILL		8%	17%	18%	16%	12%	12%
SIZE		2-3"	3"	2"	2"	2"	2"

ALL CONDUCTORS AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.

N - DENOTES NEW CONDUCTORS

△ - DENOTES EXISTING CONDUIT

△ - DENOTES NEW CONDUIT

**BAYSHORE BLVD & VALLEY DR
(FO-06)**

CONDUCTOR SCHEDULE											
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS									
		1	2	3	4	5	6	7	8	9	
#14	Ø1	6	3	3							
	Ø2	3	3	3	3						
	Ø3	3					3	3	3		
	Ø4	3	3	3	3						
	Ø5	6	3	3	3		3	3	3		
	Ø6	6					3	3	3		
	Ø2 PED	2	2	2	2						
	Ø3 PED	4	2	2	2		2	2	2		
	Ø4 PED	4	2	2							
	Ø6 PED	2					2	2			
	Ø2 PPB	1	1	1	1						
	Ø3 PPB	2	1	1	1		1	1	1		
	Ø4 PPB	2	1	1							
	Ø6 PPB	1					1	1			
	PPB COMMON	2	1	1	1		1	1	1		
	SPARES	6	3	3	3		3	3	3		
	TOTAL #14	53	25	25	19		19	19	16		
	#8	SIGNAL COMMON	2	1	1	1		1	1	1	
		STREET LIGHTING (240V)	4	2	2	2		2	2		
		TRACE		1	1	1	1				1
TOTAL #8		6	4	4	4	1	3	3	1	1	
DLC	111U	1					1	1	1	1	
	111L	1					1	1	1	1	
	212U	1									
	212L	1									
	316U	1	1	1	1						
	316L	1	1	1	1						
	315U	1	1	1	1						
	315L	1	1	1	1						
	418L	1					1				
	511L	1									
	612U	1					1	1	1		
	612L	1					1	1	1		
TOTAL DLC	12	4	4	4		5	4	4	2		
CAT6A	MVDS	2 _N	1 _N	1 _N	1 _N						
OTHER	VIDEO DETECTION CABLE	3	1	1	1						
	VIDEO DETECTION POWER	3	1	1	1						
	12-SMFO	1 _N									
CONDUIT FILL		20%	17%	17%	15%	1%	15%	14%	9%	19%	
SIZE		2-3"	3"	3"	3"	3"	3"	3"	3"	2"	

ALL CONDUCTORS AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.

N - DENOTES NEW CONDUCTORS

△ - DENOTES EXISTING CONDUIT

△ - DENOTES NEW CONDUIT

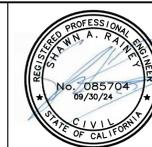
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DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

CONDUCTOR SCHEDULES

JOB NO. _____
DATE MAY 2024
SCALE AS NOTED
SHEET 23 OF 44 SHEETS
SHEET NO. _____
ES-02

**BEATTY RD AND TUNNEL AVE
(FO-15)**

CONDUCTOR SCHEDULE					
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS			
		1	2	3	4
CAT6A	CCTV	1 _N	1 _N		
	WIRELESS RADIO	2 _N	1 _N	1 _N	1 _N
	TOTAL CAT6A	3 _N	2 _N	1 _N	1 _N
OTHER	CCTV POWER CABLE	1 _N	1 _N		
CONDUIT FILL		9%	7%	2%	2%
SIZE		2"	2"	2"	2"

ALL CONDUCTORS AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.

N - DENOTES NEW CONDUCTORS

△ - DENOTES EXISTING CONDUIT

△ - DENOTES NEW CONDUIT

**TUNNEL AVE AND LAGOON RD
(FO-16)**

CONDUCTOR SCHEDULE					
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS			
		1	2	3	4
#8	TRAILBLAZER	2 _N	2 _N		2 _N
	GROUNDING	1 _N	1 _N		1 _N
	TOTAL #8	3 _N	3 _N		3 _N
#2	TOTAL #2				3 _N
CAT6A	MVDS	1 _N		1 _N	0
	TRAILBLAZER	1 _N	1 _N		0
	WIRELESS RADIO	1 _N	1 _N		0
	TOTAL CAT6A	3 _N	2 _N	1 _N	0
CONDUIT FILL		17%	15%	2%	8%
SIZE		2"	2"	2"	3" _N

ALL CONDUCTORS AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.

N - DENOTES NEW CONDUCTORS

△ - DENOTES EXISTING CONDUIT

△ - DENOTES NEW CONDUIT

**BEATTY AVE AND ALANA WAY
(FO-17)**

CONDUCTOR SCHEDULE			
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS	
		1	2
CAT6A	MVDS	1 _N	1 _N
	WIRELESS RADIO	1 _N	1 _N
	TOTAL CAT6A	2 _N	2 _N
CONDUIT FILL		5%	5%
SIZE		2"	2"

ALL CONDUCTORS AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.

N - DENOTES NEW CONDUCTORS

△ - DENOTES EXISTING CONDUIT

△ - DENOTES NEW CONDUIT

Job: K:\04_015\09156008 - c039 northern cities p&e - s04_04_CADD\plan sheets\06 ES-09.dwg May 08, 2024 - 5:42pm K:\04_015\09156008 - c039 northern cities p&e - s04_04_CADD\plan sheets\06 ES-09.dwg

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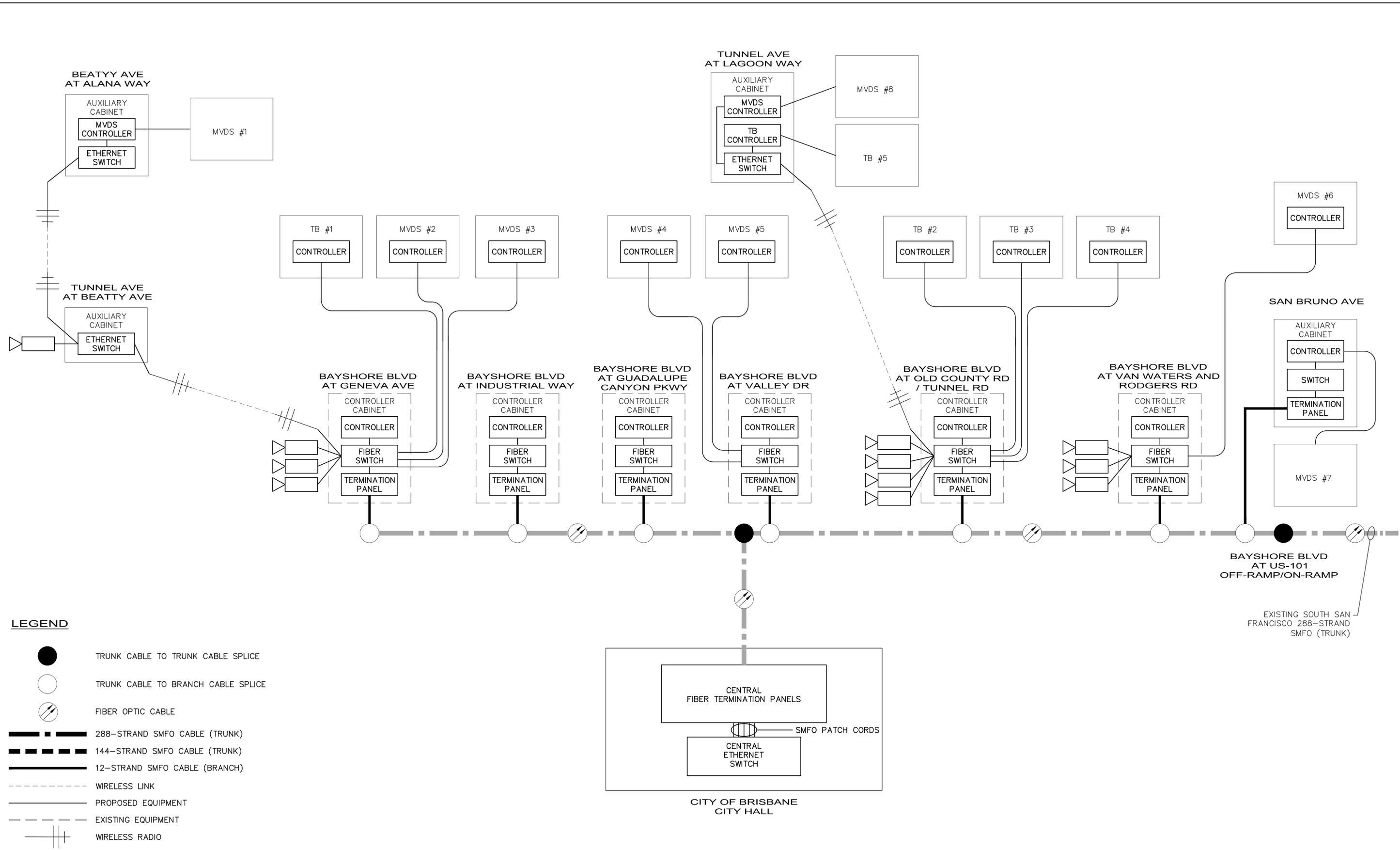
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APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

CONDUCTOR SCHEDULES

JOB NO. _____
DATE MAY 2024
SCALE AS NOTED
SHEET 25 OF 44 SHEETS
SHEET NO. _____
ES-04

Job: K:\04 - 2024 - 5:42pm K:\04 - 2024 - 05\09156008 - ccsa northern cities.pbx - sra\04_CADD\plan sheets\25 SY-01.dwg
 May 08, 2024



LEGEND

- TRUNK CABLE TO TRUNK CABLE SPLICE
- TRUNK CABLE TO BRANCH CABLE SPLICE
- FIBER OPTIC CABLE
- 288-STRAND SMFO CABLE (TRUNK)
- 144-STRAND SMFO CABLE (TRUNK)
- 12-STRAND SMFO CABLE (BRANCH)
- WIRELESS LINK
- PROPOSED EQUIPMENT
- EXISTING EQUIPMENT
- WIRELESS RADIO

REVISIONS		
NO.	BY	DATE

REVISIONS		
NO.	BY	DATE

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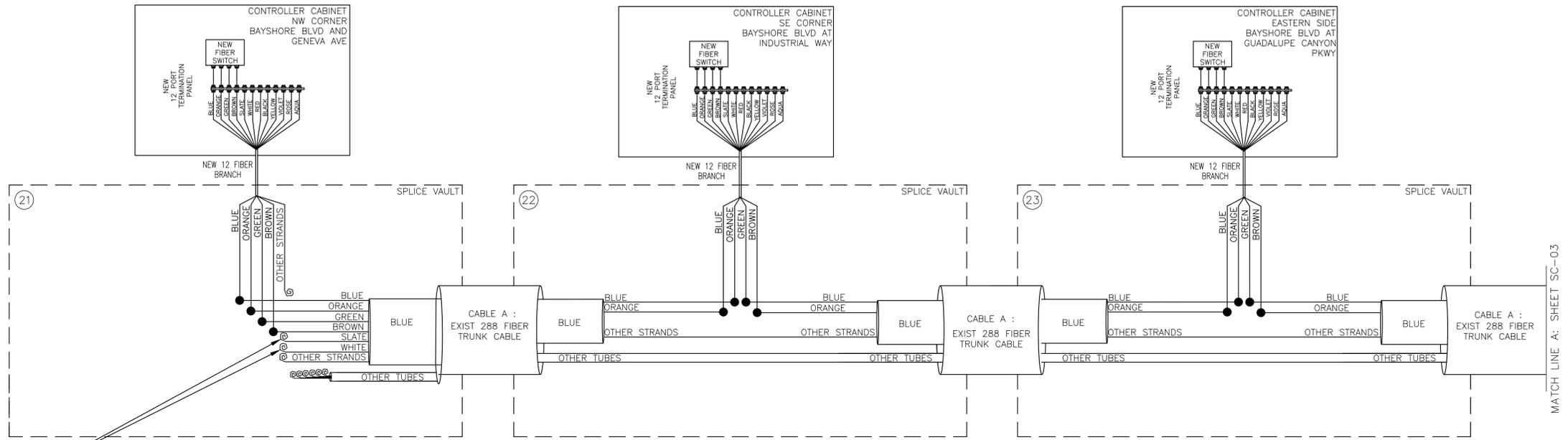


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DESIGNED BY:	SAR
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APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

SYSTEM DIAGRAM

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	26 OF 44 SHEETS
SHEET NO.	SY-01



TWO STRANDS RESERVED FOR DALBY CITY CONNECTION TO CITY SIGNALS (FUTURE)

LEGEND:

- PROPOSED SPLICE
- EXISTING SPLICE
- TUBE SPLICE

Job: K:\04_04_CADD\plan sheets\29_SC-04.dwg May 08, 2024 - 5:45pm K:\04_04_CADD\plan sheets\29_SC-04.dwg

REVISIONS		
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REVISIONS		
NO.	BY.	DATE

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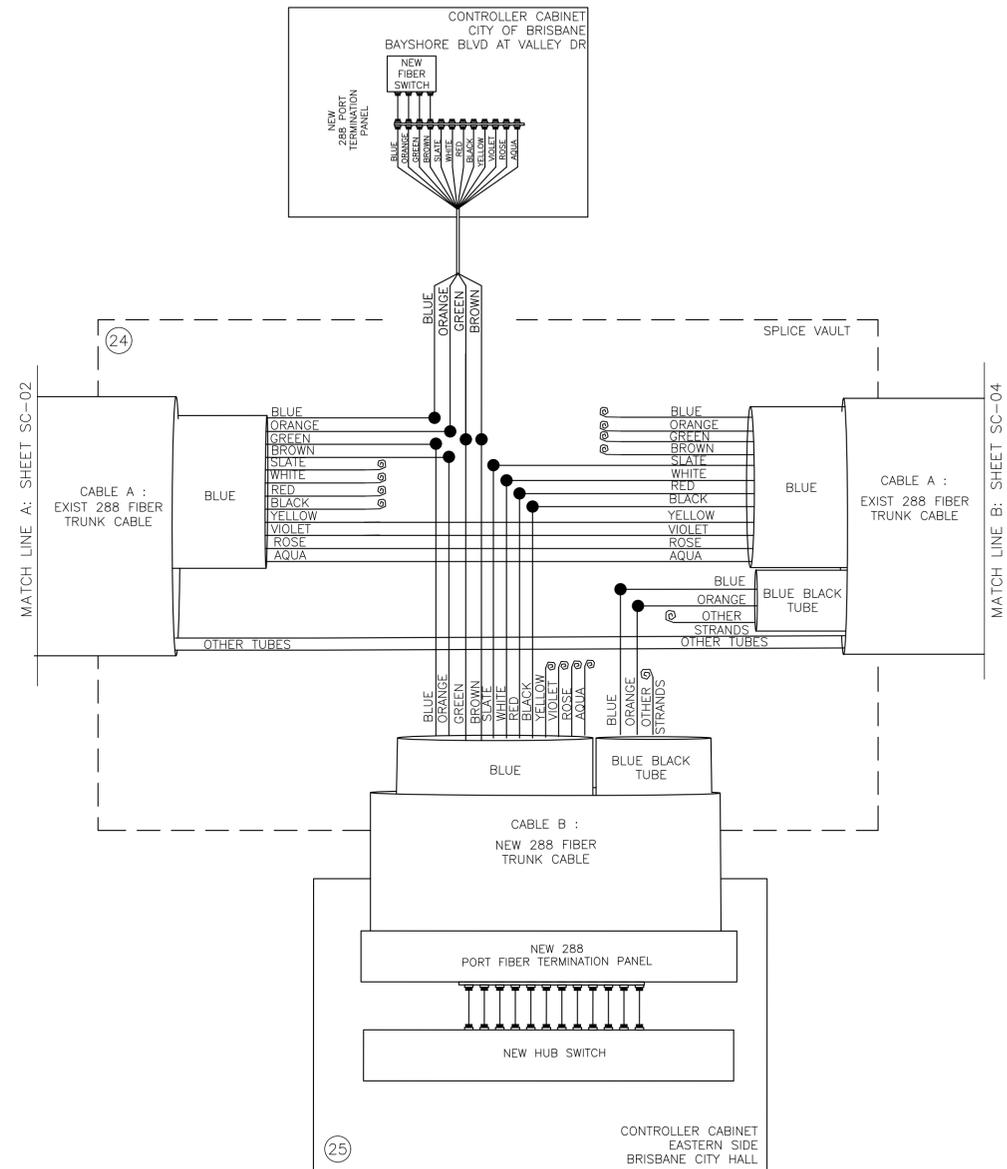
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DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

SPlice DIAGRAMS

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	28 OF 44 SHEETS
SHEET NO.	SC-02

Job: K:\04_015\09165008 - c039 northern cities p&e - s04_04_CADD\plan sheets\29_SC-04.dwg May 08, 2024 - 5:45pm K:\04_015\09165008 - c039 northern cities p&e - s04_04_CADD\plan sheets\29_SC-04.dwg



LEGEND:

- PROPOSED SPLICE
- EXISTING SPLICE
- TUBE SPLICE

REVISIONS		
NO.	BY.	DATE

REVISIONS		
NO.	BY.	DATE

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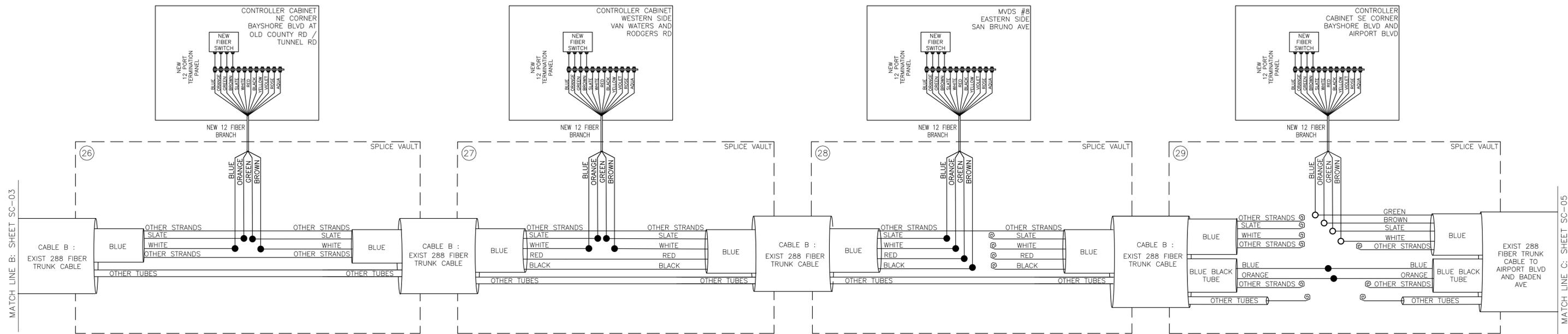
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DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

SPLICE DIAGRAMS

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	29 of 44 SHEETS
SHEET NO.	SC-03

Job: K:\04_CADD\plan sheets\29 SC-04.dwg May 08, 2024 - 5:45pm K:\04_CADD\plan sheets\29 SC-04.dwg



LEGEND:

- PROPOSED SPLICE
- EXISTING SPLICE
- TUBE SPLICE

REVISIONS		
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REVISIONS		
NO.	BY.	DATE

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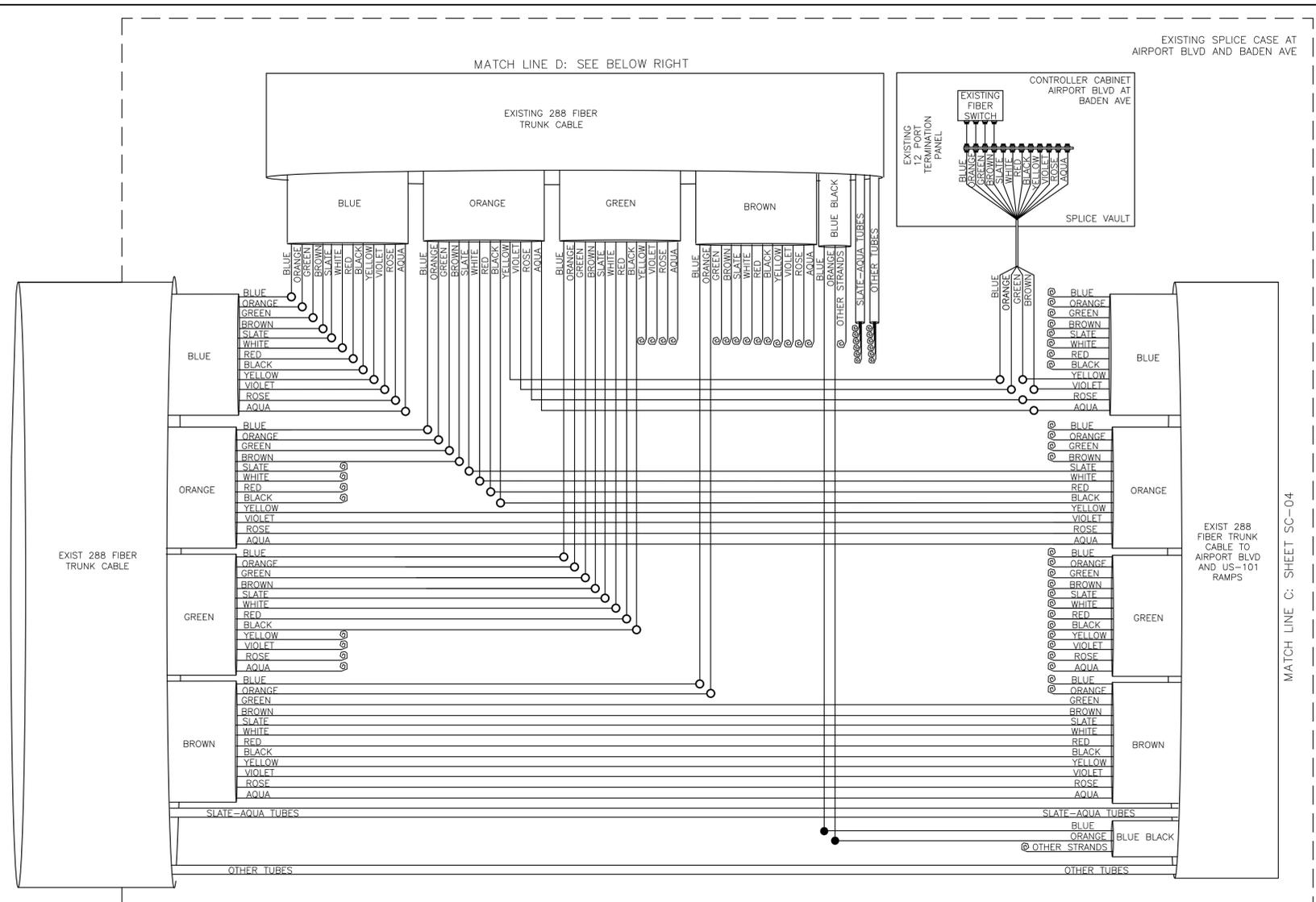
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 APPROVED BY: RCE

**SMART CORRIDORS
 NORTHERN CITIES**

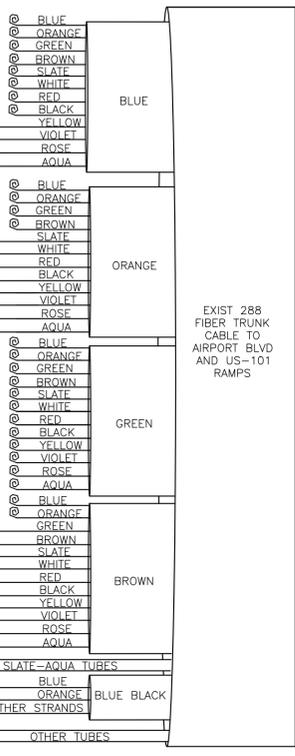
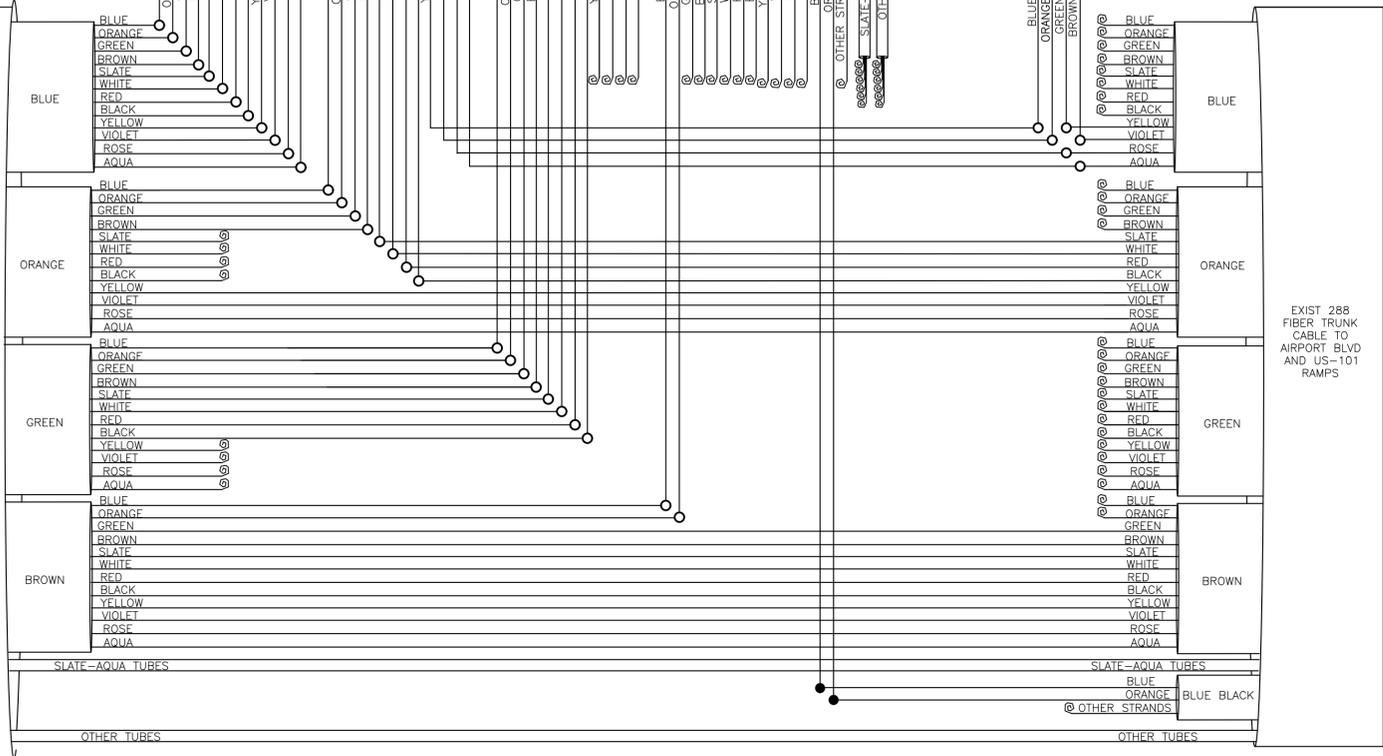
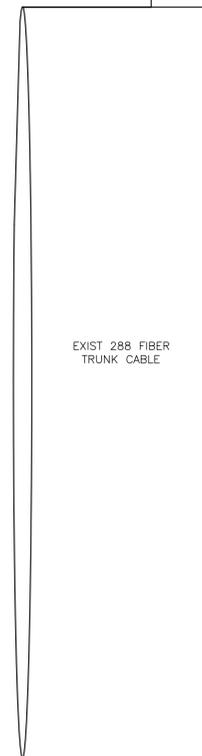
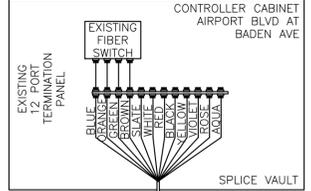
SPLICE DIAGRAMS

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 30 OF 44 SHEETS
 SHEET NO. SC-04

Job: K:\04_04_CADD\plan sheets\29 SC-04.dwg May 08, 2024 - 5:45pm K:\04_04_CADD\plan sheets\29 SC-04.dwg

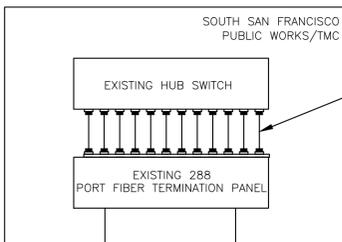


EXISTING SPLICE CASE AT AIRPORT BLVD AND BADEN AVE

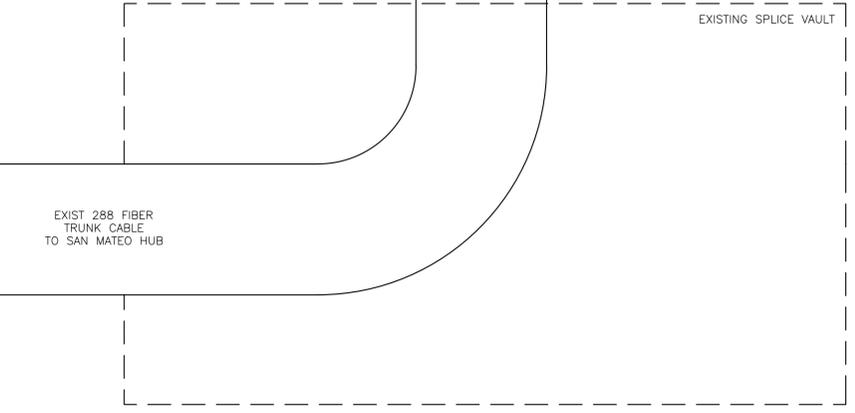


MATCH LINE C: SHEET SC-04

MATCH LINE D: ABOVE LEFT



INSTALL PATCH CORD FOR BLUE AND ORANGE STRANDS IN BLUE BLACK TUBE



LEGEND:

- PROPOSED SPLICE
- EXISTING SPLICE
- TUBE SPLICE

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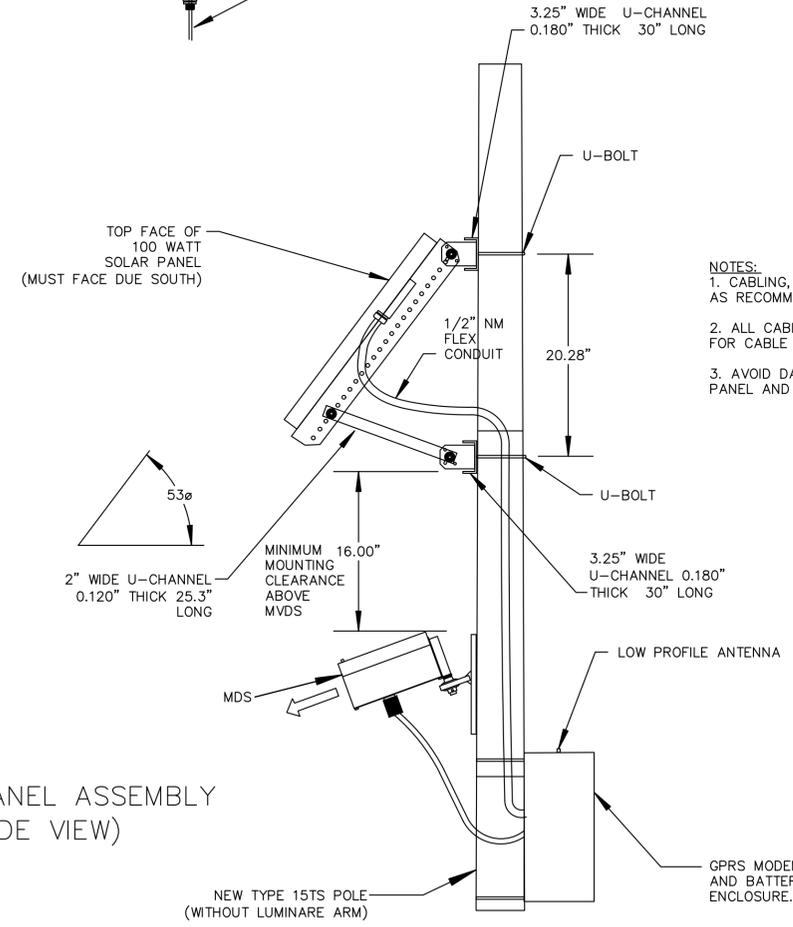
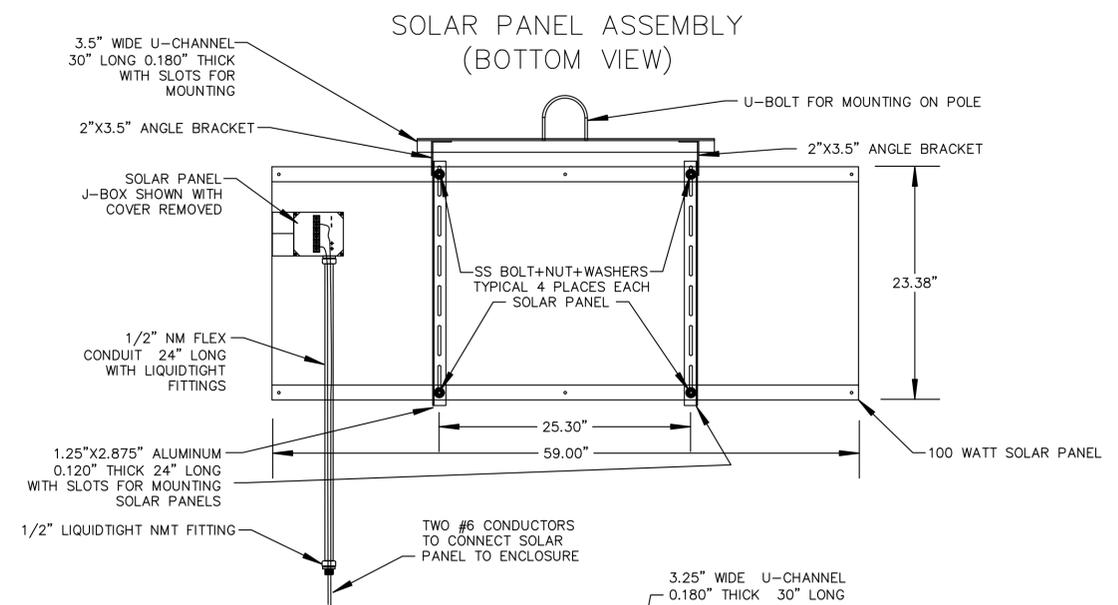
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**SMART CORRIDORS
NORTHERN CITIES**

SPLICE DIAGRAMS

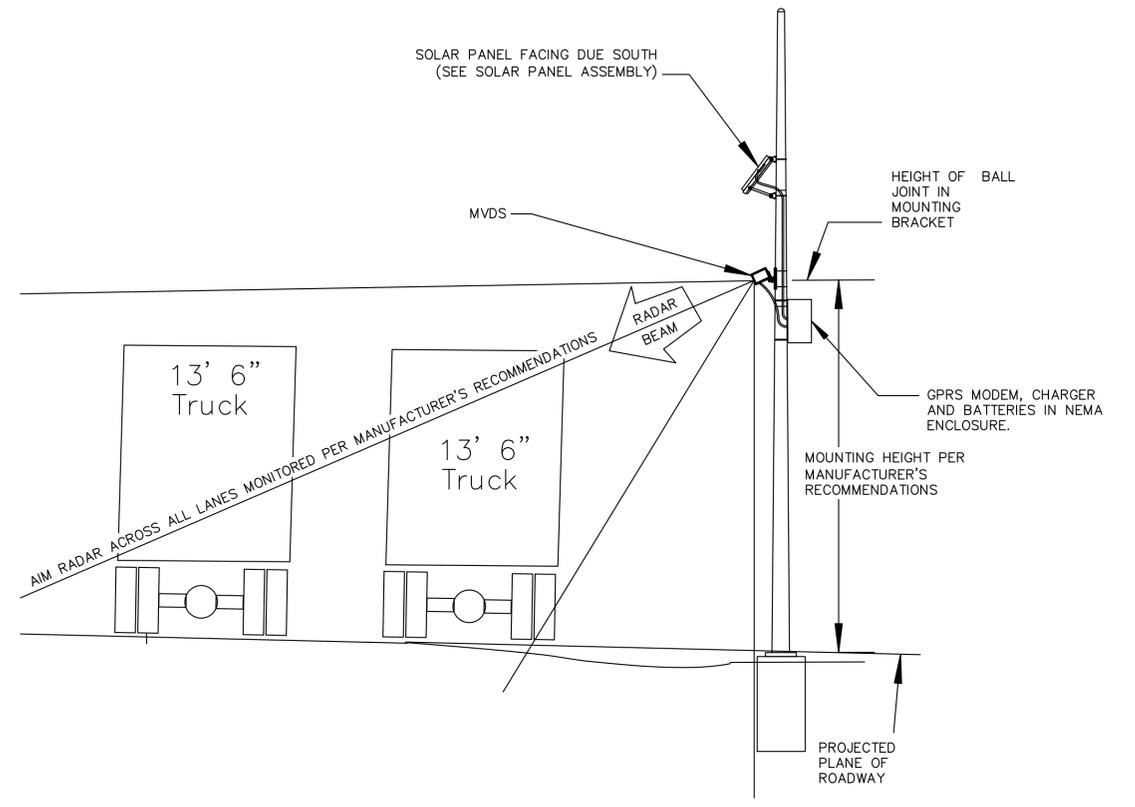
JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	31 of 44 SHEETS
SHEET NO.	SC-05

Job: Kelsco May 08, 2024 - 5:44pm \\corridor\CA_ORA\ORA\JTS\097158008 - CAG Northern Cities PS&E - SAR\04_CADD\Plan Sheets\30_DT-01.dwg



- NOTES:**
1. CABLING, CONNECTORS AND BRACKETS SHALL BE AS RECOMMENDED BY VENDOR.
 2. ALL CABLES SHALL HAVE WATER-TIGHT FITTINGS FOR CABLE ENTRANCE AND DRIP LOOP IN CABLE.
 3. AVOID DAMAGE AND INJURY WHEN LIFTING SOLAR PANEL AND OTHER HEAVY EQUIPMENT.

SOLAR PANEL ASSEMBLY SHOWING WIRING AND MOUNTING DETAILS
NOT TO SCALE



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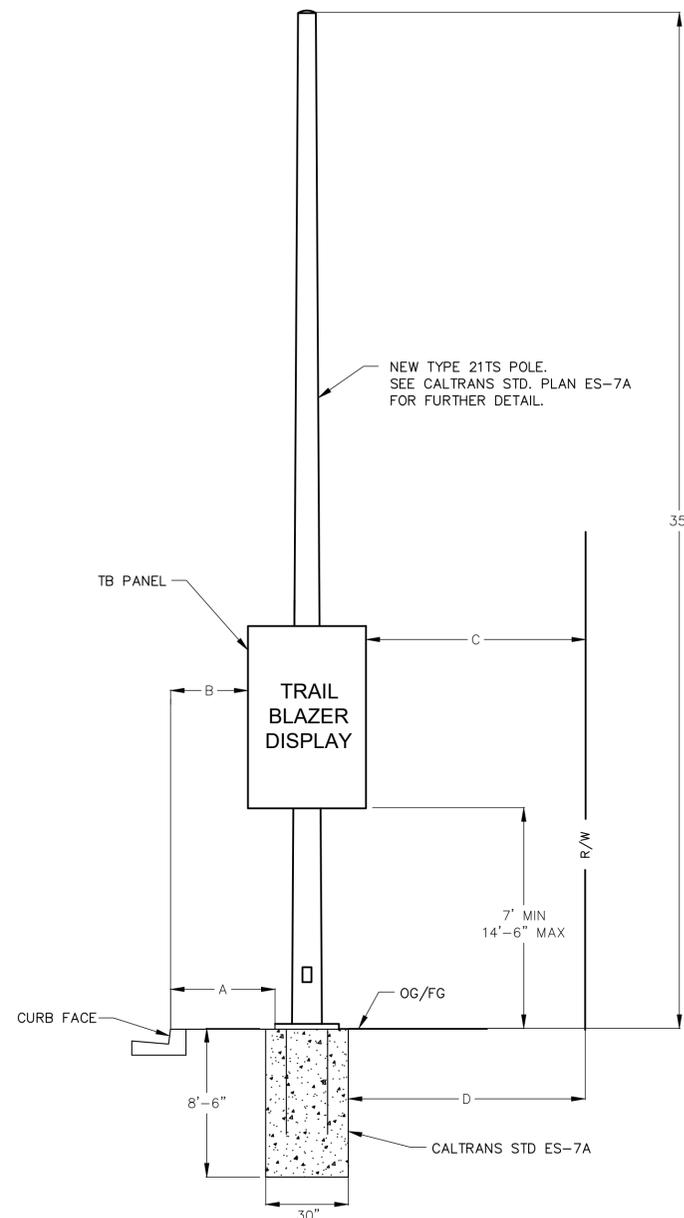
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SMART CORRIDORS NORTHERN CITIES

DETAILS

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	32 OF 44 SHEETS
SHEET NO.	DT-01

TRAIL BLAZER SIGN ASSEMBLY DIMENSIONS AND WEIGHT		
ATTACHMENT	MOUNTING HEIGHT	WEIGHT LIMITS (LBS)
2'-6"H X 2'-0"W X 12"D TB ENCLOSURE	7'-0" MIN BOTTOM CLEARANCE 14'-6" MAX BOTTOM CLEARANCE	100 MAX
TB PANEL 4'-0"W X 5'-0"H X 8"D	7'-0" MIN BOTTOM CLEARANCE 14'-6" MAX BOTTOM CLEARANCE	250 MAX



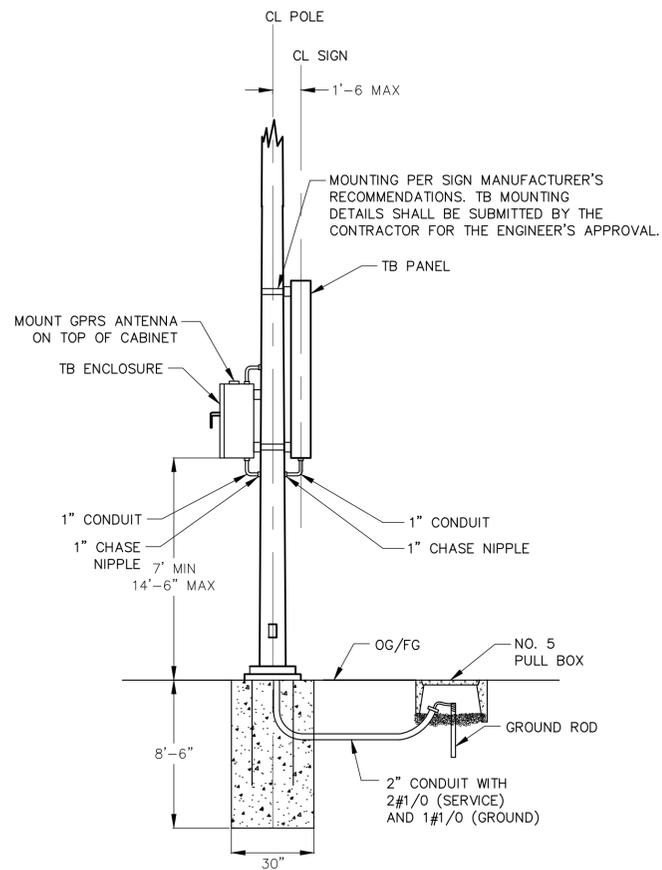
TYPE 21TS POLE

TRAIL BLAZER SIGN INSTALLATION
(FRONT VIEW)

NOT TO SCALE

A_{min} SHALL BE 36" PER ADA REQUIREMENTS
B_{min} SHALL BE 24"
C_{min} AND D_{min} SHALL BE 0"
STATIC SIGN LETTERING HEIGHT SHALL BE 6 INCHES (MIN).

*INSTALLATIONS IN SIDEWALK LOCATIONS WHERE POLE IS LOCATED NEAR BACK OF SIDEWALK FOR ADA CLEARANCE MAY REQUIRE SIGNS TO BE OFFSET ON POLE TO REMAIN WITHIN RIGHT OF WAY.



TRAIL BLAZER SIGN INSTALLATION
(SIDE VIEW)

NOT TO SCALE

NOTES:

- POLE LOCATION AND INSTALLATION DIMENSIONS SHALL BE APPROVED PRIOR TO POLE ASSEMBLY FABRICATION.
- ORIENTATION OF CABINET SHALL BE APPROVED PRIOR TO INSTALLATION.
- PROVIDE GROUNDING ACCORDING TO THE NEC AND THE STANDARD SPECIFICATIONS.
- FOUNDATION SIZE AS SHOWN. REINFORCING PER CALTRANS STANDARD DETAIL ES-7N.
- MORTAR SHALL BE PLACED UNDERNEATH POLE (BETWEEN POLE PEDESTAL PLATE AND TOP OF FOUNDATION.)
- DIRT AROUND POLE FOUNDATION SHALL BE SLOPED AWAY FROM FOUNDATION.



TRAIL BLAZER PANEL

Job: Kelsco May 08, 2024 5:44pm \\veripic\CA_ORA\KAT\JTS\097158008 - CCAG Northern Cities PS&E - SAR\CA_CADD\Plan Sheets\31-DT-02.dwg

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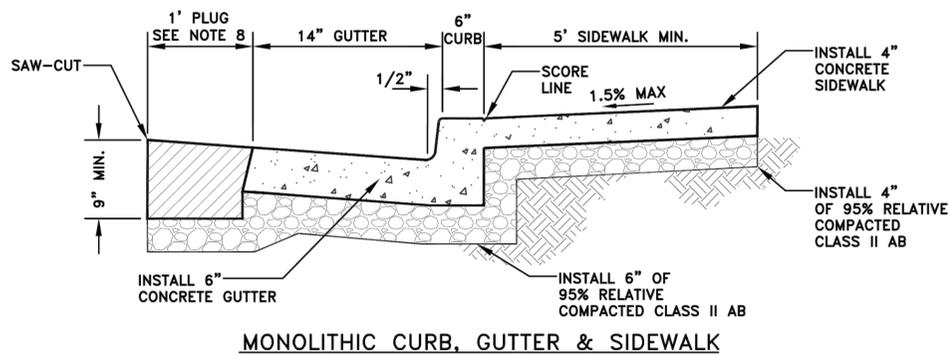


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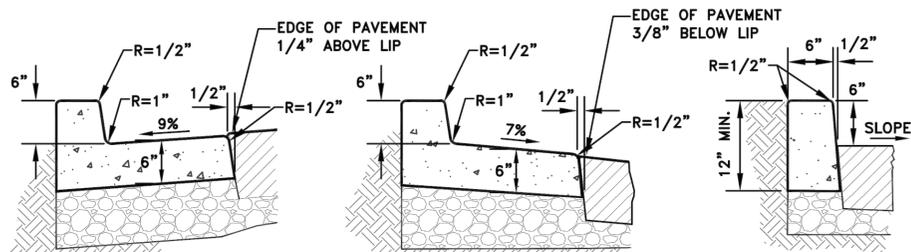
**SMART CORRIDORS
NORTHERN CITIES**

DETAILS

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	33 OF 44 SHEETS
SHEET NO.	DT-02



MONOLITHIC CURB, GUTTER & SIDEWALK



CURB AND GUTTER ONLY
(APPLICABLE WHERE APPROVED BY CITY ENGINEER)

CURB ONLY
(APPLICABLE AT MEDIAN ISLAND CURBS WHERE CROSS SLOPE DRAINS AWAY FROM CURB)

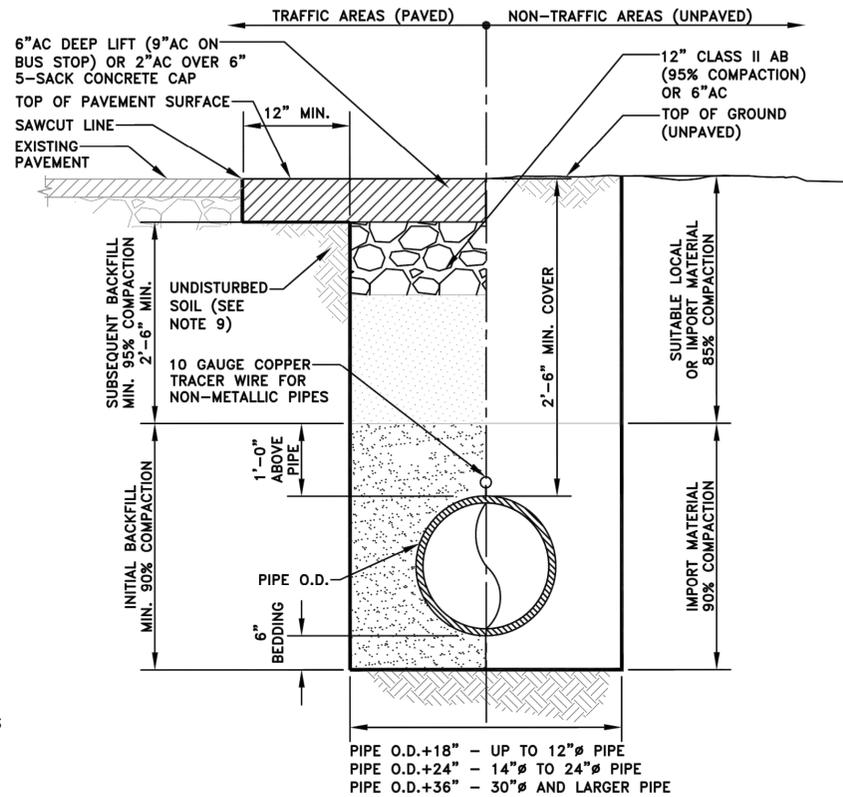
NOTES:

- WHERE A NEW SIDEWALK IS TO BE CONSTRUCTED, THE SIDEWALK SHALL BE EXTENDED UP TO AN ADDITIONAL 35 FEET OR 25%, WHICHEVER IS GREATER TO CONNECT WITH AN EXISTING SIDEWALK.
- ALL CONCRETE DEMOLITION SHALL BE TO SCORE LINES OR JOINTS. ALL CUTS SHALL BE SAWED NEAT AND STRAIGHT AND SHALL HAVE A MINIMUM DEPTH OF 1-1/2". WATER USED FOR SAWCUTTING OPERATIONS SHALL BE VACUUMED IMMEDIATELY.
- ALL NEW CONCRETE SHALL BE CLASS A, SIX SACK CEMENT, USING 1-1/2" MAX SIZE AGGREGATE. ALL NEW CONCRETE SHALL HAVE LAMP BLACK TO MATCH COLOR OF ADJACENT CONCRETE AND FINISHED UNIFORM FINE BROOMED TEXTURE. CURING SHALL BE BY NO-PIGMENTED CURING COMPOUND METHOD.
- 1/4" WIDE EXPANSION JOINTS SHALL BE PLACED AT 20' INTERVALS, AT CURB RETURNS, AND AT ENDS OF DRIVEWAY APRONS. NEW SIDEWALKS SHALL BE SCORED AT 4' INTERVALS AND ALONG BACK OF SIDEWALK. LONGITUDINAL SCORES ARE REQUIRED AT THE CITY ENGINEER'S DIRECTION FOR SIDEWALK WIDTHS GREATER THAN 5'. REPLACEMENT SHALL BE SCORED TO MATCH CONTIGUOUS EXISTING SIDEWALK AND CURB.
- IMPRINT A 4-INCH HIGH LETTER "S" ON TOP OF CURB AT SEWER LATERAL CROSSING AND "W" AT WATER LATERAL CROSSING.
- CONTRACTOR SHALL CALL FOR INSPECTION OF FORMING, POURING AND COMPLETION, GIVING 24-HOURS ADVANCE NOTICE.
- IF ANY CURB, GUTTER, OR SIDEWALK ARE EXISTING, NEW CURB, GUTTER, OR SIDEWALK SHALL DOWEL INTO EXISTING CONCRETE EVERY 18". USE 9" LONG No.4 DOWELS, INSERTED MIN. 4" INTO EXISTING CONCRETE.
- FOR ANY CURB, GUTTER, OR DRIVEWAY REPAIR, SAW-CUT AND REMOVE 1 FOOT WIDE SECTION OF AC PLUG, MIN. 9" DEPTH BACKFILL WITH HMA 1/2" AGGREGATE.

WORK WITHIN CITY RIGHT-OF-WAY REQUIRES ENCROACHMENT PERMIT FROM CITY'S ENGINEERING DIVISION

SIDEWALK REPAIR

NOT TO SCALE



SECTION

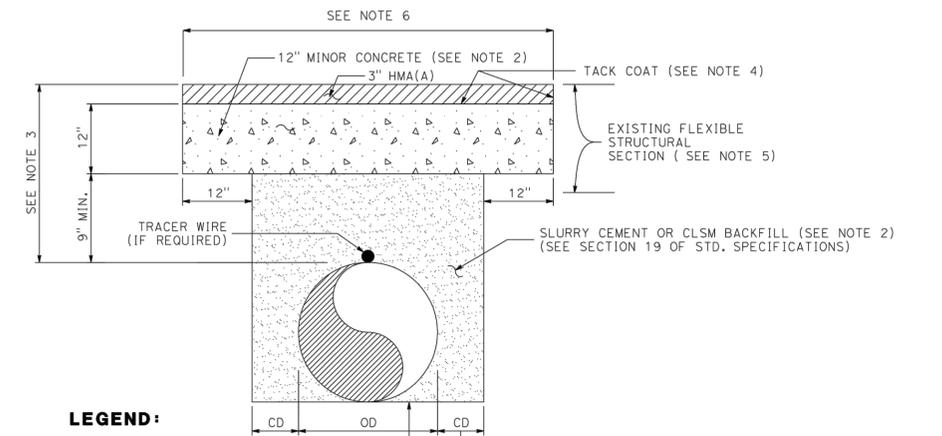
NOTES:

- NEW TRENCH EXCAVATION SHALL NOT BE ALLOWED ON STREETS THAT HAVE BEEN RESURFACED WITHIN THE LAST FIVE (5) YEARS OR SLURRY SEALED WITHIN THE LAST TWO (2) YEARS. IF NEW EXCAVATION IS APPROVED, PAVEMENT RESTORATION SHALL BE REQUIRED AT THE OPTION OF THE CITY ENGINEER.
- SEE STANDARD SPECIFICATIONS AND/OR PROJECT SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS RELATING TO THICKNESS OF DEEP LIFT ASPHALT, TYPE OF IMPORT AND SUITABLE EXCAVATION MATERIALS FOR USE AS BACKFILL.
- ALL BACKFILL MATERIALS SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS BEFORE COMPACTION.
- UNLESS OTHERWISE SPECIFIED RELATIVE DENSITY OF COMPACTION SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D1557.
- JETTING OR PONDING OF BACKFILL MATERIALS TO ACHIEVE COMPACTION WILL NOT BE ALLOWED. ONLY MECHANICAL COMPACTION METHODS WILL BE PERMITTED.
- TRENCH EXCAVATION SHALL CONFORM TO OSHA REQUIREMENTS.
- SEE S-5 FOR STREET PATCHING AND "SLURRY" TRENCH DETAILS.
- 6"AC/12" AB MAY BE WAIVED FOR LOCAL STREETS WITH CITY ENGINEER'S APPROVAL.
- REMOVE LOOSE SOIL IF IT IS DISTURBED DURING EXCAVATION.

PIPE TRENCH EXCAVATION AND BACK FILL REQUIREMENTS

NOT TO SCALE

CASE 1a: FOR TRAFFIC INDEX (TI) LESS THAN OR EQUAL TO 12
HIGH GROUNDWATER TABLE CONDITIONS DO NOT EXIST WITHIN THE TRENCH



LEGEND:

- MINOR CONCRETE
- HOT MIX ASPHALT
- SLURRY CEMENT OR CLSM BACKFILL

NOTES:

- USE OF THIS DETAIL IS APPLICABLE ONLY IF HIGH GROUNDWATER TABLE CONDITIONS DO NOT EXIST WITHIN THE TRENCH AND/OR PERMEABLE MATERIAL/ PERMEABLE BASE IS NOT PRESENT IN THE STRUCTURAL SECTION. AS BUILT CONDITIONS MAY BE REQUIRED TO VERIFY.
- CONCRETE CAP MAY BE RAPID STRENGTH CONCRETE (RSC). IF RSC IS USED, SLURRY CEMENT OR CLSM MAY BE REPLACED WITH RSC DEPENDING UPON PROJECT TIME CONSTRAINTS.
- FOR NEW INSTALLATIONS, MINIMUM DEPTH OF COVER REQUIREMENTS ARE TO FOLLOW GUIDELINES IN THE ENCROACHMENT PERMITS MANUAL OR HIGHWAY DESIGN MANUAL. WHEN COVER OVER A REPLACEMENT PIPE/ENCASEMENT PIPE IS LESS THAN 24", A SPECIAL DESIGN IS NECESSARY (FOR IN-HOUSE PROJECTS, REFER TO HQ. DRAINAGE DETAIL LIBRARY).
- TACK COAT (ASPHALTIC EMULSION) SHALL BE APPLIED TO ALL EXPOSED SURFACES PRIOR TO PLACING HMA(A).
- IF EXISTING FLEXIBLE PAVEMENT CONTAINS RIGID LAYERS, THE EXISTING PAVEMENT SHALL BE SAWCUT TO THE BOTTOM OF THE EXISTING RIGID LAYER.
- FOR LONGITUDINAL TRENCHES, 0.10' COLD PLANED SURFACE AND OVERLAY SHALL BE TO THE NEAREST LANE LINE FOR ENTIRE LENGTH OF THE TRENCH/DISTURBED AREAS, AND/OR AS DIRECTED BY STATE'S REPRESENTATIVE.
- ALL MATERIALS, WORKMANSHIP, TESTING, AND INSPECTIONS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS, PROJECT-SPECIFIC SPECIAL PROVISIONS AND OTHER STATE REGULATIONS.
- ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.
- FOR SIDEWALKS, CONCRETE CAP/HMA ARE NOT REQUIRED. MATCH THE EXISTING SIDEWALK STRUCTURAL SECTION AND BRING THE CLSM/SLURRY CEMENT TO THE BOTTOM OF THE SIDEWALK.
- SPECIAL CONSIDERATION REQUIRED FOR INSTALLATION OF PLASTIC PIPE TO COUNTERACT THE EFFECT OF BOUYANCY ON THE PIPE IN FLOWABLE BACKFILL. CONTRACTOR TO PREVENT UPWARD DEFLECTION OF PIPE WHEN PLACING FLOWABLE MATERIALS.

ABBREVIATIONS:

- CD = CLEAR DISTANCE
- HMA(A) = HOT MIX ASPHALT TYPE A
- OD = OUTSIDE DIAMETER OF UTILITY OR CULVERT
- CLSM = CONTROLLED LOW-STRENGTH MATERIAL

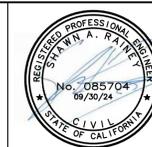
CALTRANS PIPE TRENCH EXCAVATION AND BACK FILL REQUIREMENTS

NOT TO SCALE

Job: Kelsco May 08, 2024 5:45pm \\verip01\CA_ORA\QAK_JTS\097158008 - C0AG Northern Cities PS&E - SAR\CA_CADD\Plan Sheets\32 DT-03.dwg

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Oakland, California 94612 Fax No. (916)608-0885



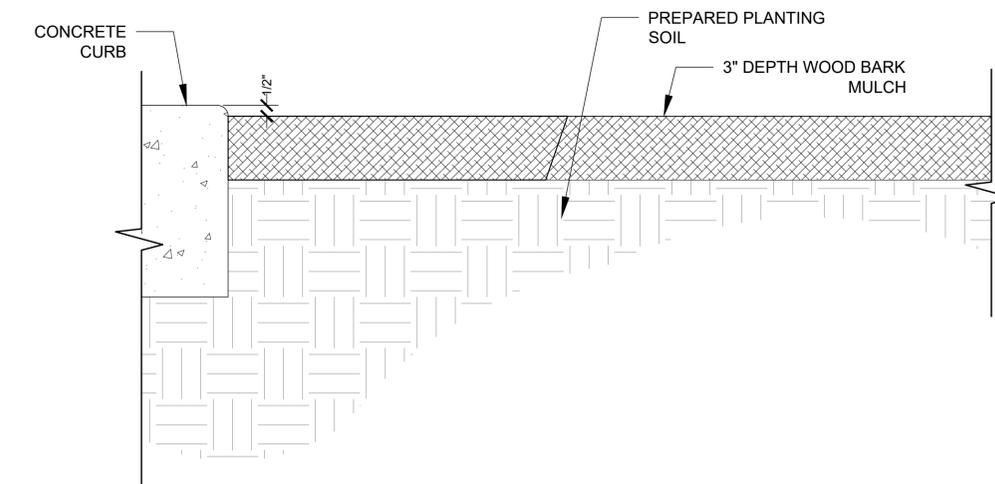
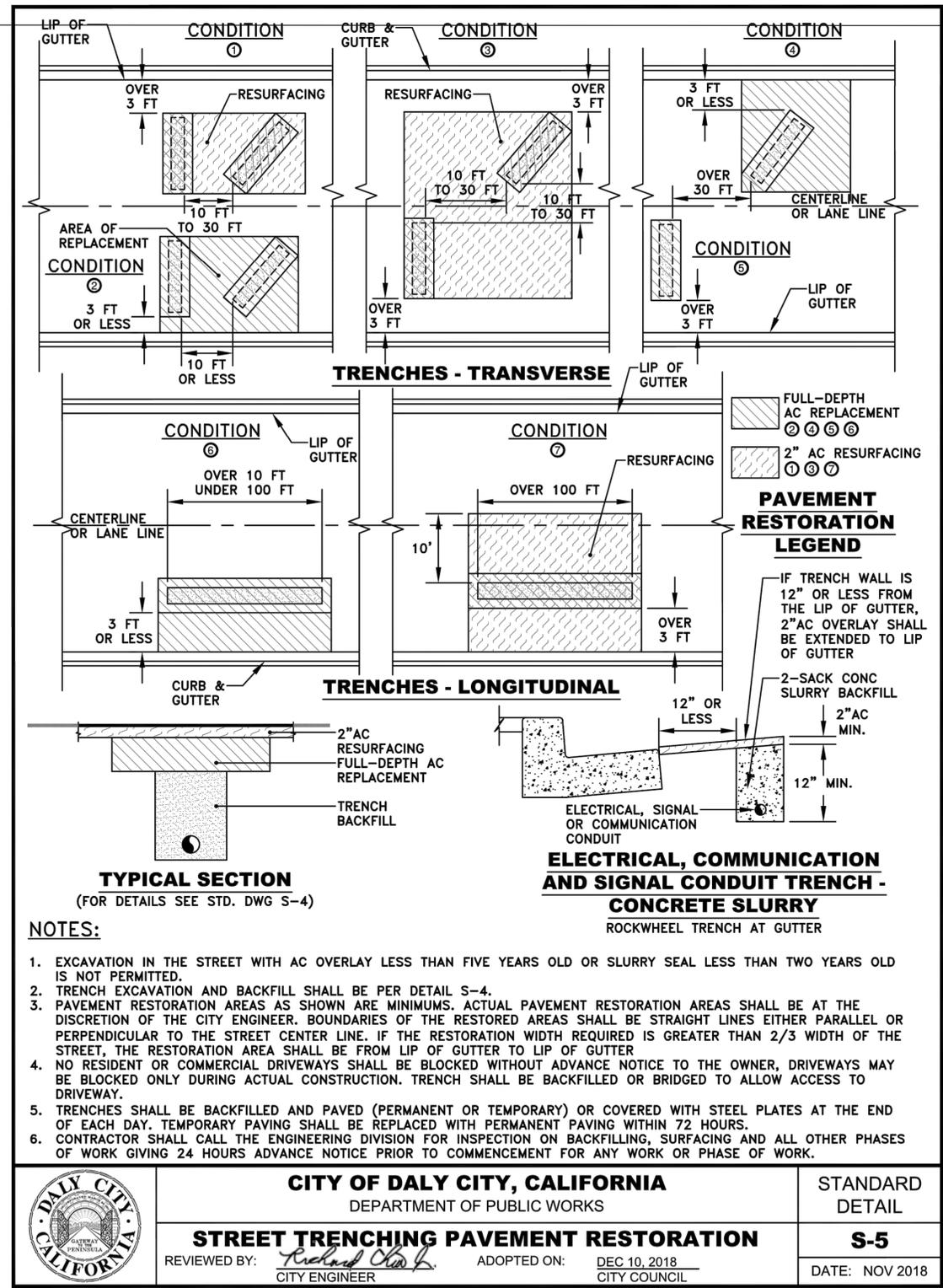
DRAWN BY: MEW
DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

DETAILS

JOB NO.
DATE MAY 2024
SCALE AS NOTED
SHEET 34 OF 44 SHEETS
SHEET NO.
DT-03

Job: Kelsa May 08, 2024 - 5:45pm \\snp01\CA_GBA\AK_JTS\097158008 - CAG Northern Cities PS&E - SAR\CA_CADD\Plan Sheets\3.3 DT-04.dwg



STREET TRENCHING PAVEMENT RESTORATION
NOT TO SCALE

MULCH DETAIL
NOT TO SCALE

	CITY OF DALY CITY, CALIFORNIA		STANDARD
	DEPARTMENT OF PUBLIC WORKS		DETAIL
	STREET TRENCHING PAVEMENT RESTORATION		S-5
REVIEWED BY: <i>Richard Chao</i>	ADOPTED ON: DEC 10, 2018	CITY ENGINEER	DATE: NOV 2018

NO.	BY	DATE	DESCRIPTION

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 1300 Clay Street, Suite 325 Tel. No. (510)625-0712
 Oakland, California 94612 Fax No. (916)608-0885



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DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

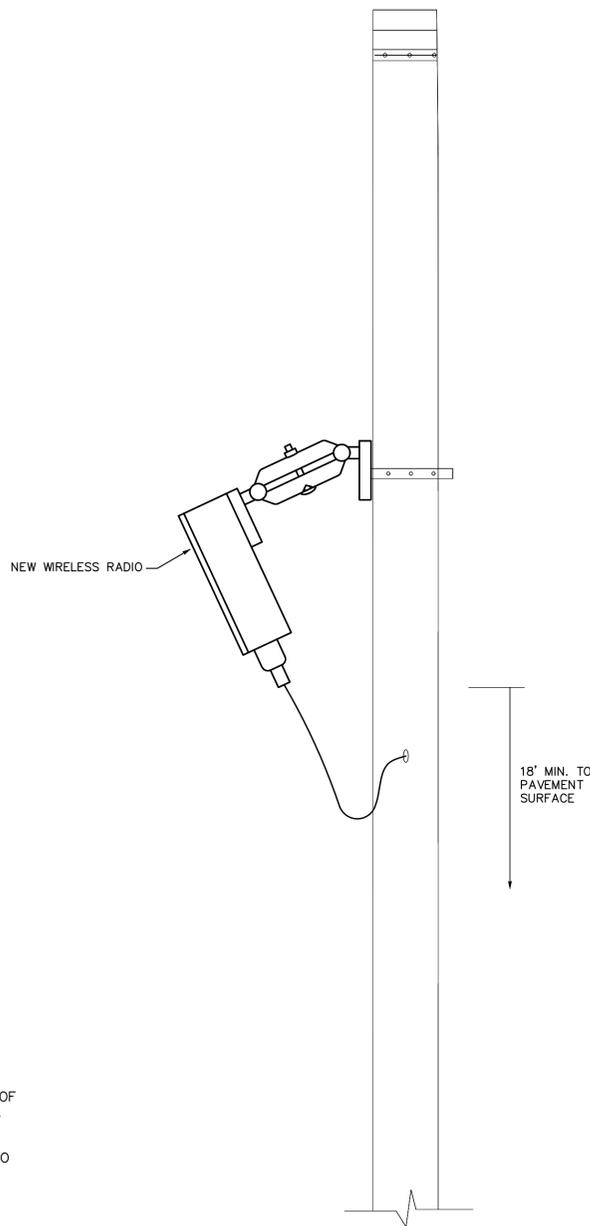
DETAILS

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	35 OF 44 SHEETS
SHEET NO.	DT-04

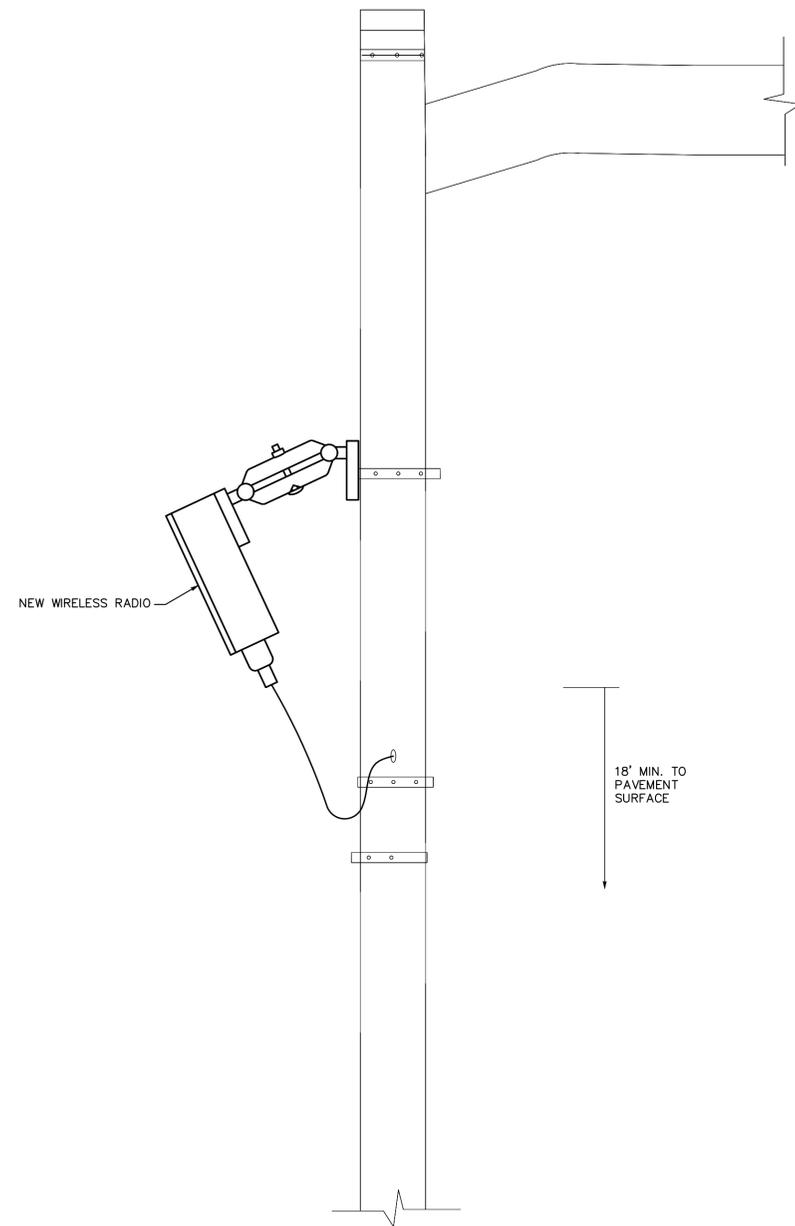
Job: Kelsco May 08, 2024 - 5:45pm \\veripoint\CA_ORA\ORA\JTS\097198008 - CAG Northern Cities PS&E - SAR\04_CADD\Plan Sheets\34_DT-05.dwg

NOTES:

1. INSTALL WIRELESS RADIO ON THE VERTICAL POST OF THE STRUCTURES.
2. USE MOUNTING EQUIPMENT TO BE PROVIDED BY THE MANUFACTURER.
3. FIELD DRILL CABLE HOLE AND USE WATER-TIGHT FITTINGS FOR CABLE ENTRANCE. PROVIDE DRIP LOOP IN THE CABLE. LOCATION OF THE WIRING ENTRANCES SHALL BE A MIN. OF 2 FEET FROM ANY FLANGE AND AT LEAST 1 FOOT FROM ANY WELDED STRUCTURAL ELEMENT, ANY OTHER HOLE IN THE ARMOR POLE, OR ANY OTHER ATTACHMENT TO THE POLE OR ARM.
4. METAL BANDING DETAILS AND CONNECTION TO SUPPORTING MEMBERS ARE PER MANUFACTURER'S RECOMMENDATIONS, AND ARE TO BE APPROVED BY THE ENGINEER.
5. MOUNT WIRELESS RADIO AT 18' MIN. FROM PAVEMENT SURFACE.
6. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER ASTM A-123 AND COMPLY WITH SECTIONS 75-1.02A AND 75-1.02B OF THE 2018 CALTRANS STANDARD SPECIFICATIONS.



WIRELESS RADIO MOUNTED ON EXISTING POLE



WIRELESS RADIO MOUNTED ON LUMINAIRE POLE

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

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 APPROVED BY: RCE

**SMART CORRIDORS
 NORTHERN CITIES**

DETAILS

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 36 OF 44 SHEETS
 SHEET NO. _____
 DT-05

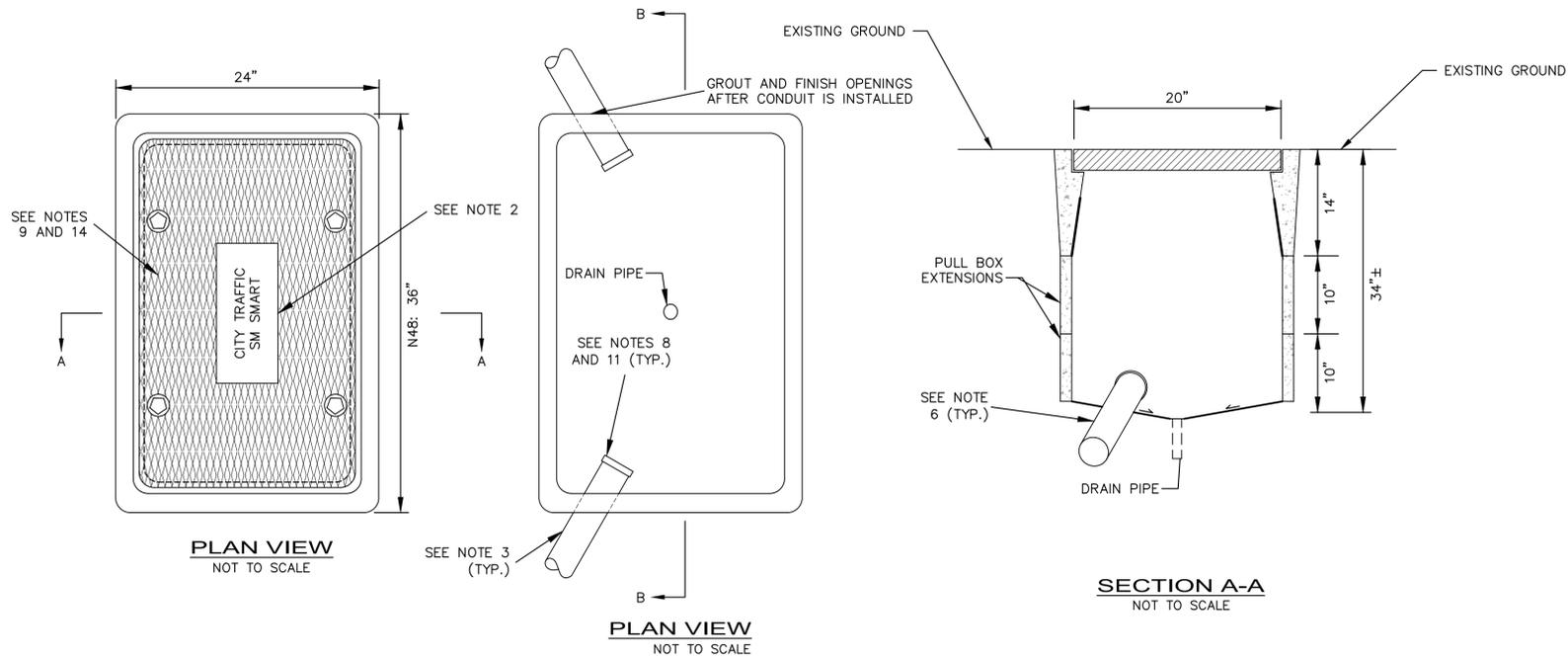
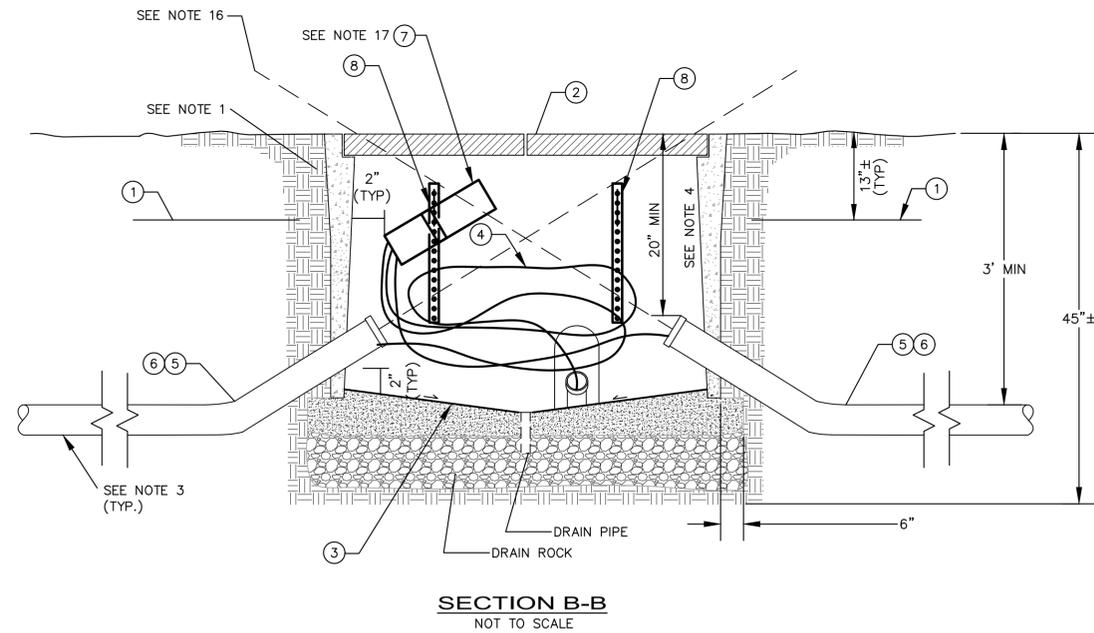


TABLE	
ITEM	DESCRIPTION
1	WARNING TAPE (IF OPEN TRENCHING)
2	FIBER OPTIC SPLICE BOX WITH LID
3	GROUTED FLOOR OVER CLEAN CRUSHED ROCK SUMP PER CITY STANDARDS
4	FIBER OPTIC CABLE, AS REQUIRED
5	SCHEDULE 80 HDPE CONDUIT (SEE PLANS FOR SIZE AND QUANTITY) "SCH 80 HDPE"
6	45 DEGREE ELBOW, 36" RADIUS (TO MATCH CONDUIT TYPE AND SIZE)
7	FIBER OPTIC SPLICE CLOSURE
8	RACK AND HOOK ASSEMBLY



FIBER OPTIC VAULT DETAIL
NOT TO SCALE

NOTES:

- BACKFILL ACCORDING TO THE CITY OF BRISBANE STANDARD SPECIFICATIONS AND DETAILS.
- "CITY TRAFFIC/SM SMART" SHALL BE INTEGRATED ON THE LID.
- CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN 1 FOOT OF DEFLECTION PER 10 FEET OF CONDUIT RUN FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE VAULT.
- TOP OF TRUNKLINE CONDUIT ENTERING THROUGH THE SIDE OF THE VAULT SHALL BE LOCATED AT LEAST 20" BELOW EXISTING FINISHED GROUND.
- NUMBERS IN CIRCLES REFER TO ITEMS IN THE TABLE.
- IF EXISTING CONDUIT IS USED FOR PROJECT FIBER, THE CONTRACTOR SHALL MODIFY CONDUIT SWEEPS TO ALIGN WITH TOP OF VAULT AS SHOWN. IF NEW CONDUIT IS USED, THE CONTRACTOR SHALL INSTALL SCHEDULE 80 HDPE CONDUIT WITH SWEEP WITH A MAXIMUM ANGLE OF 45 DEGREES.
- VAULT HEIGHT ABOVE FINISHED GRADE SHALL PERMIT 1" OF SURFACE LANDSCAPING, IF APPLICABLE, TO MATCH EXISTING CONDITIONS.
- EXCESS CONDUIT FOR ALL CONDUIT ENDS SHALL BE CUT BACK TO PROVIDE STUB ENDS OF 1" MIN. AND 2" MAX.
- LOCKING MECHANISM SHALL BE PROVIDED FOR COVER. FOUR 3/4" PENTA HEAD BOLTS SHALL BE USED. TWO 3/4" PENTA HEAD SOCKETS AND RATCHET SHALL BE PROVIDED TO THE CITY.
- FIBER OPTIC VAULT, VAULT COVER, AND VAULT EXTENSIONS SHALL BE POLYMER AND SHALL SUPPORT A MINIMUM TEST LOAD OF 12,500 LBS. IF VAULT IS LOCATED IN A TRAVELED WAY, ALL COMPONENTS SHALL CONFORM TO VERTICAL PROOF-LOAD STRENGTH REQUIREMENTS PER THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2018), SECTION 86-1.02C.
- ALL METALLIC CONDUIT SHALL HAVE GROUND BUSHINGS. ALL PVC AND HDPE CONDUITS SHALL HAVE BELL ENDS.
- CONDUITS SHALL ENTER THROUGH KNOCKOUTS.
- FURNISH AND INSTALL CAPS OR PLUGS FOR ALL UNUSED CONDUIT.
- CONTRACTOR MAY ELECT TO PROVIDE A SINGLE POLYMER VAULT WITH 34" DEPTH AND OMIT THE TWO 10" VAULT EXTENSIONS.
- BOTTOM OF CONDUIT CENTERLINE SHALL BE ALIGNED TO EXIT TOP OF VAULT TO FACILITATE CABLE PULLING.
- VAULTS SHALL BE INSTALLED TO ALIGN WITH AND BE PARALLEL OR PERPENDICULAR TO SIDEWALK EDGES AND SCORE LINES.
- ORIENT SPLICE CLOSURE WITH FRONT END CAP A MINIMUM OF 6" LOWER THAN THE OPPOSITE END.

Job: Kello May 09, 2024 - 10:16am K:\OAK\ITS\09715808 - east northern cities - east northern cities - sar\04_CADD\plan sheets\35 DT-06.dwg

REVISIONS			REVISIONS				
NO.	BY.	DATE	DESCRIPTION	NO.	BY.	DATE	DESCRIPTION

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Oakland, California 94612 Fax No. (916)608-0885



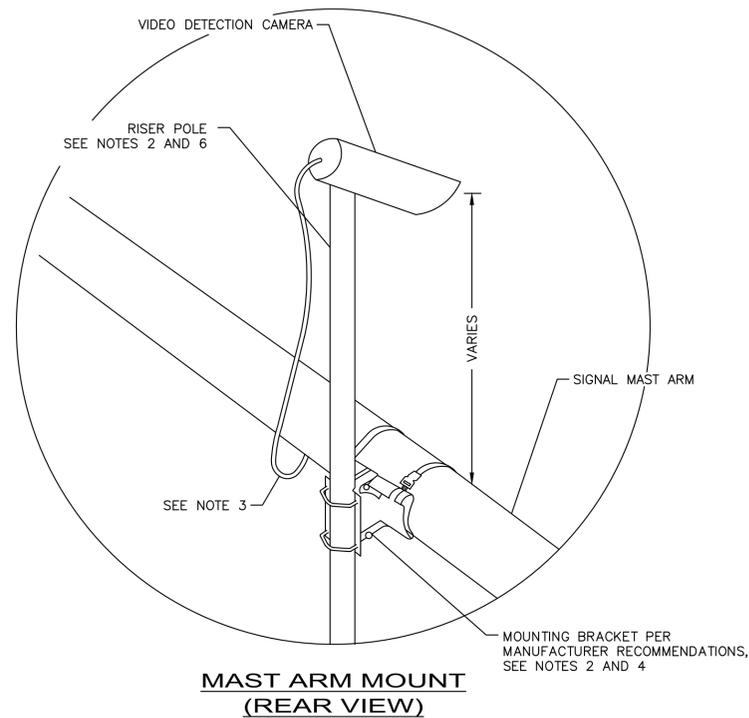
DRAWN BY: MEW
DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

**SMART CORRIDORS
NORTHERN CITIES**

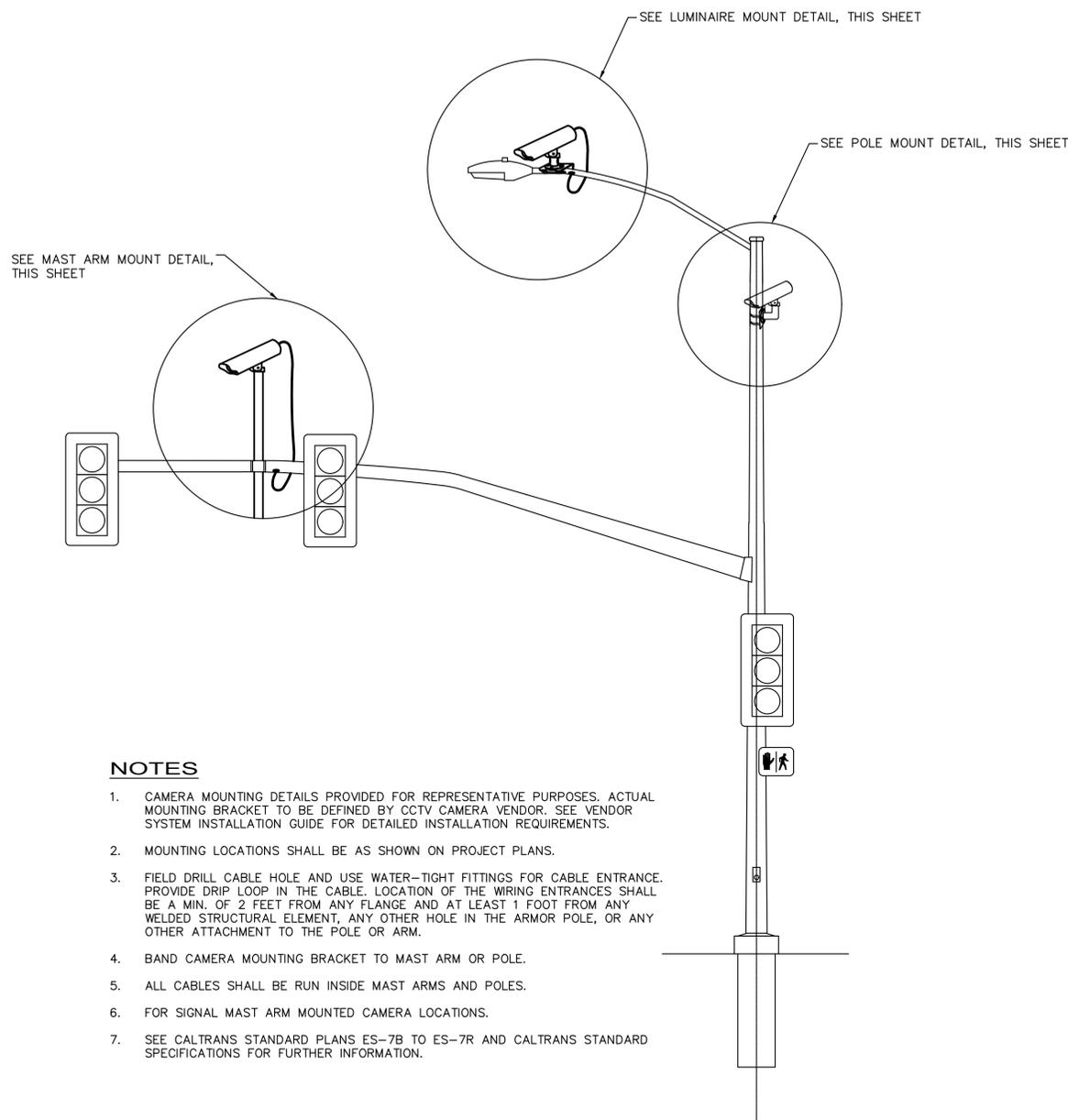
DETAILS

JOB NO. _____
DATE MAY 2024
SCALE AS NOTED
SHEET 37 OF 44 SHEETS
SHEET NO. _____
DT-06

Job: K:\04_CADD\plan_sheets\37_DT-08.dwg
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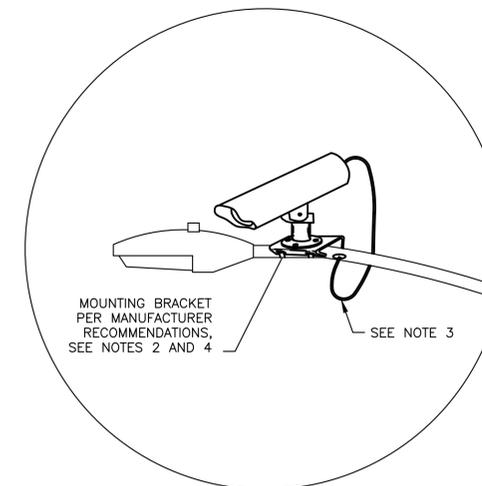


**MAST ARM MOUNT
(REAR VIEW)**

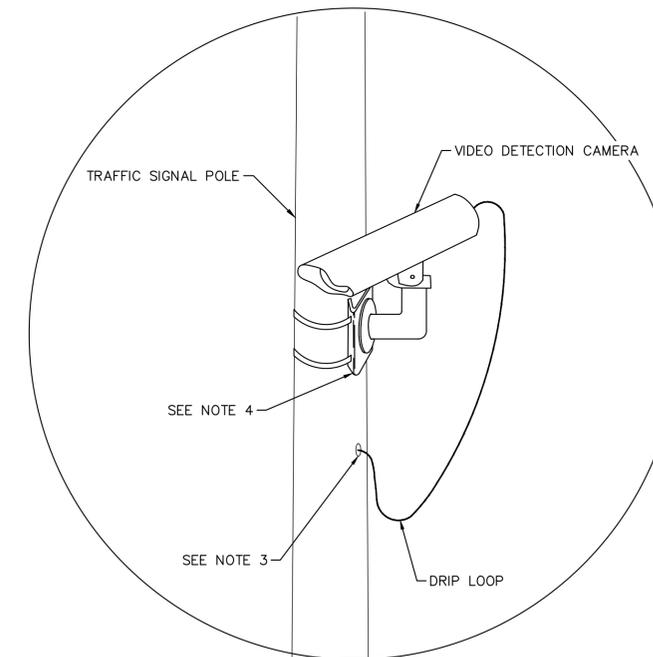


NOTES

1. CAMERA MOUNTING DETAILS PROVIDED FOR REPRESENTATIVE PURPOSES. ACTUAL MOUNTING BRACKET TO BE DEFINED BY CCTV CAMERA VENDOR. SEE VENDOR SYSTEM INSTALLATION GUIDE FOR DETAILED INSTALLATION REQUIREMENTS.
2. MOUNTING LOCATIONS SHALL BE AS SHOWN ON PROJECT PLANS.
3. FIELD DRILL CABLE HOLE AND USE WATER-TIGHT FITTINGS FOR CABLE ENTRANCE. PROVIDE DRIP LOOP IN THE CABLE. LOCATION OF THE WIRING ENTRANCES SHALL BE A MIN. OF 2 FEET FROM ANY FLANGE AND AT LEAST 1 FOOT FROM ANY WELDED STRUCTURAL ELEMENT, ANY OTHER HOLE IN THE ARMOR POLE, OR ANY OTHER ATTACHMENT TO THE POLE OR ARM.
4. BAND CAMERA MOUNTING BRACKET TO MAST ARM OR POLE.
5. ALL CABLES SHALL BE RUN INSIDE MAST ARMS AND POLES.
6. FOR SIGNAL MAST ARM MOUNTED CAMERA LOCATIONS.
7. SEE CALTRANS STANDARD PLANS ES-7B TO ES-7R AND CALTRANS STANDARD SPECIFICATIONS FOR FURTHER INFORMATION.



LUMINAIRE MOUNT



POLE MOUNT

SIGNAL POLE CAMERA MOUNTING DETAIL

NOT TO SCALE

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**SMART CORRIDORS
 NORTHERN CITIES**

DETAILS

JOB NO. _____
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 39 OF 44 SHEETS
 SHEET NO. _____
 DT-08

REVISIONS
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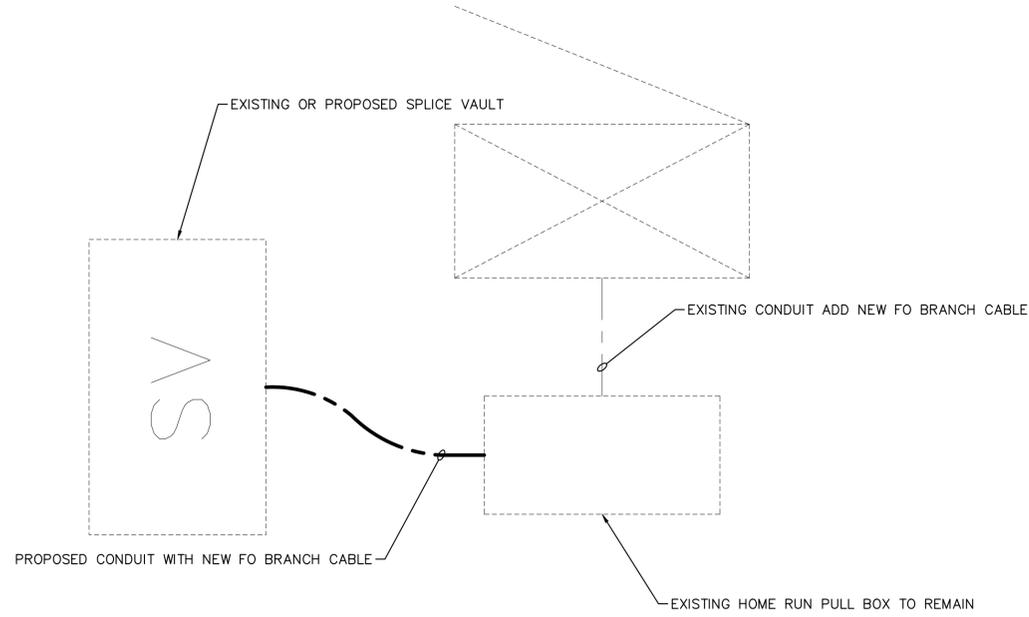
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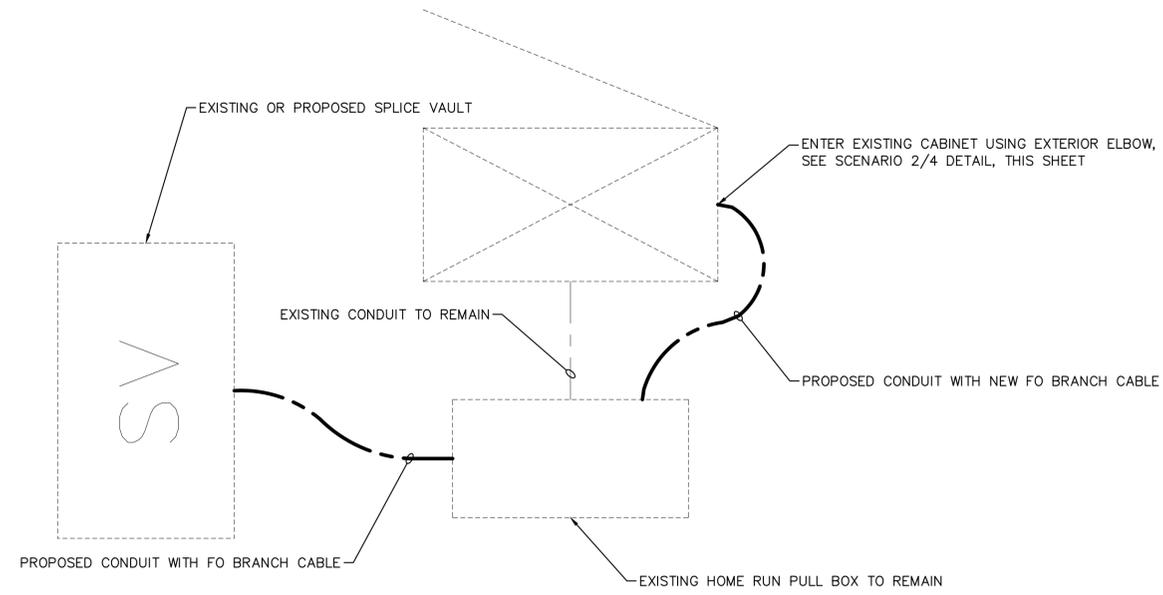
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ABBREVIATIONS:

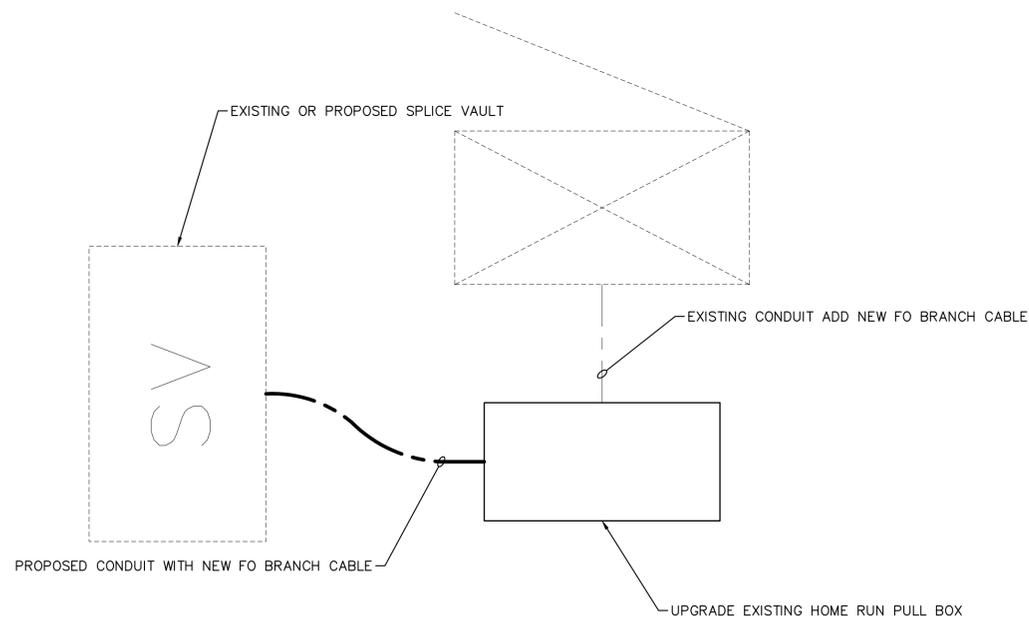
SV SPLICE VAULT



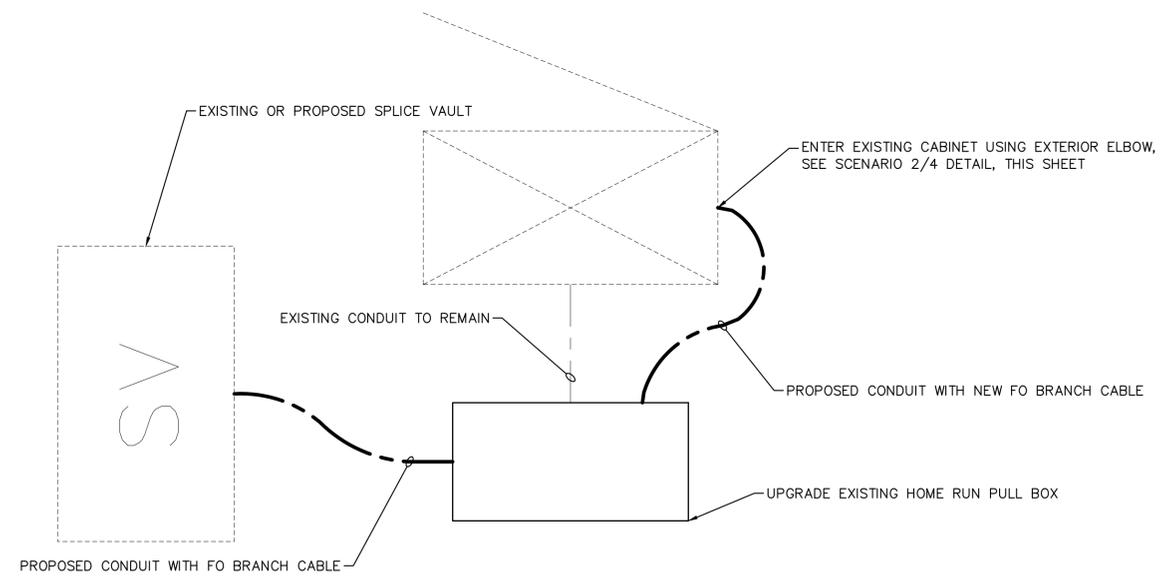
SCENARIO 1: NO SIZE CONSTRAINTS



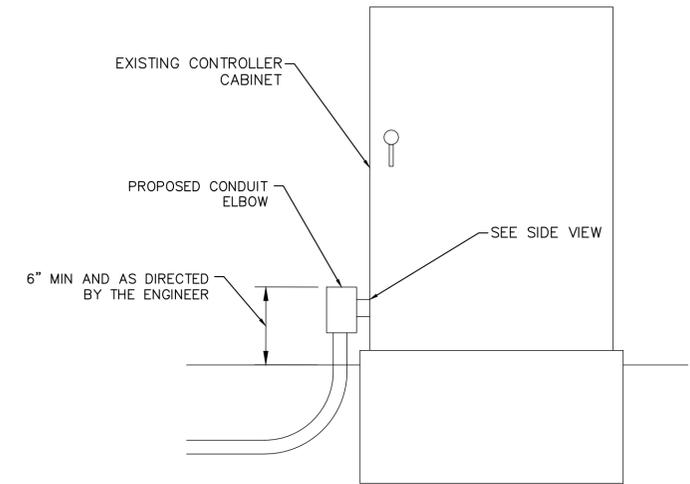
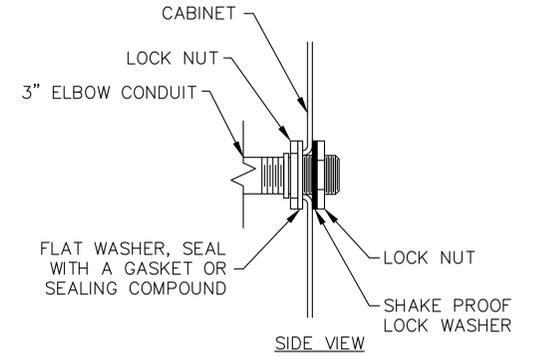
SCENARIO 2: CONDUIT INTO CABINET AT CAPACITY



SCENARIO 3: HOME RUN PULL BOX AT CAPACITY



SCENARIO 4: HOME RUN PULL BOX AND CONDUIT AT CAPACITY



SCENARIO 2/4 DETAIL
NOT TO SCALE

CABINET CONNECTIONS
NOT TO SCALE

Job: K:\04_CADD\plan_sheets\38 DT-09.dwg May 08, 2024 - 5:46pm K:\04_CADD\plan_sheets\38 DT-09.dwg - ccsa northern cities p&e - sra\04_CADD\plan_sheets\38 DT-09.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

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CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

DETAILS

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	40 OF 44 SHEETS
SHEET NO.	
DT-09	

LEGEND:

-  AREA OF WORK.
-  TUBULAR MARKERS PER CA MUTCD, 36" TALL MIN. SPACED AT 10' O.C. OR AS REQUIRED BY THE CITY OF BRISBANE.
-  WATER FILLED PLASTIC BARRIERS ORANGE 46"x24"x72".
-  TEMPORARY CONSTRUCTION SIGN. SIGN TYPE AS NOTED ON PLANS.
-  INSTALL TEMPORARY WOOD CURB RAMP AT FACE OF CURB. ALL ADA REQUIREMENTS FOR CURB RAMP SHALL BE MET.
-  TYPE A SEQUENTIAL ARROW BOARD. DIRECTION AS NOTED ON PLANS.
-  DIRECTION OF TRAVEL

SIGN LEGEND:

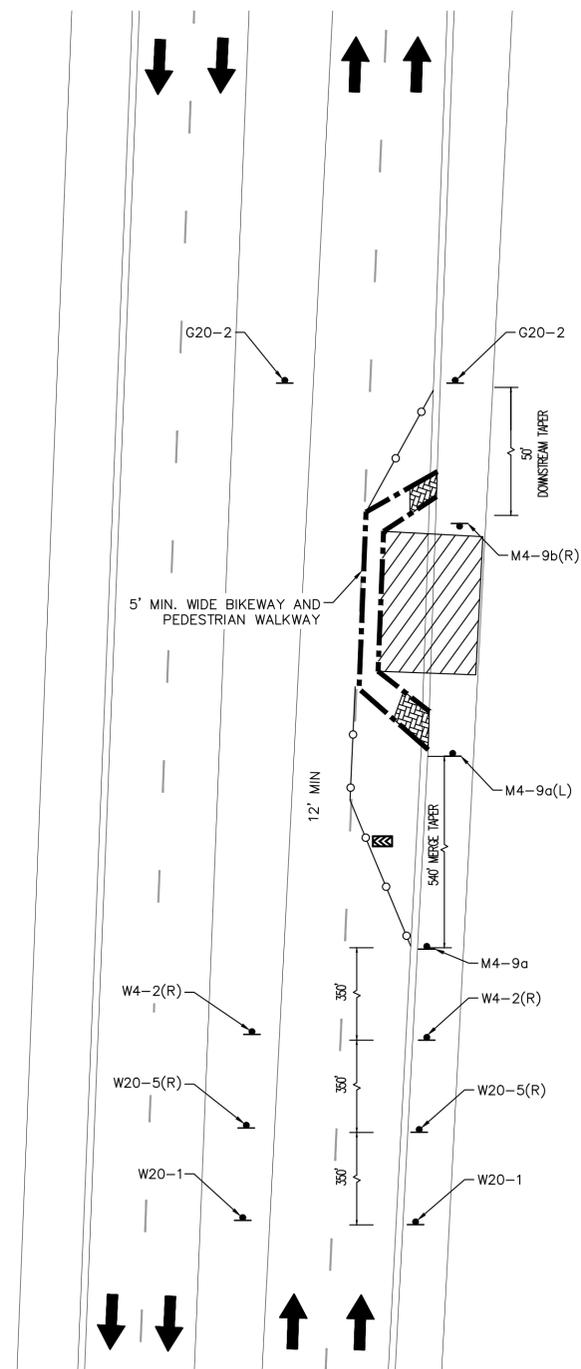
- 
 W20-1
 36"x36"
- 
 W20-5(R)
 36"x36"
- 
 W4-2(R)
 36"x36"
- 
 M4-9a(L)
 30"x24"
- 
 M4-9b(R)
 30"x24"
- 
 G20-2
 36"x18"
- 
 M4-9a
 30"x24"

LANE CLOSURE HOURS:

1. LANES CAN ONLY BE CLOSED MONDAY-FRIDAY. EXCLUDING HOLIDAYS.
2. LANE CAN BE CLOSED BETWEEN 9:00 AM-3:00PM. MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES.

GENERAL NOTES (THIS SHEET ONLY):

1. LANE CLOSURES SHALL ONLY OCCUR ON LOCAL ROADWAYS AND NOT ON FREEWAY OR HIGHWAY SYSTEMS.
2. ALL DIMENSIONS ARE BASED ON 45 MPH SPEED LIMIT IN AN URBAN AREA. IF SPEED IS NOT 45 MPH, ALL DIMENSIONS SHALL BE ADJUSTED PER LATEST VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



Job: Kelo - May 08, 2024 - 5:47pm K:\Oak\15\09715800B - ccap_northern_cities_psfte - sr\04_cadd\plan_sheets\39 TC-01.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

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DRAWN BY: MEW
DESIGNED BY: SAR
CHECKED BY: RRD
APPROVED BY: RCE

SMART CORRIDORS
NORTHERN CITIES

TEMPORARY TRAFFIC CONTROL

JOB NO.	DATE MAY 2024
SCALE AS NOTED	
SHEET 41 OF 44 SHEETS	
SHEET NO. TC-01	

LEGEND:

-  AREA OF WORK.
-  TUBULAR MARKERS PER CA MUTCD, 36" TALL MIN. SPACED AT 10' O.C. OR AS REQUIRED BY THE CITY OF BRISBANE.
-  TEMPORARY CONSTRUCTION SIGN. SIGN TYPE AS NOTED ON PLANS.
-  TYPE A SEQUENTIAL ARROW BOARD. DIRECTION AS NOTED ON PLANS.
-  DIRECTION OF TRAVEL

SIGN LEGEND:

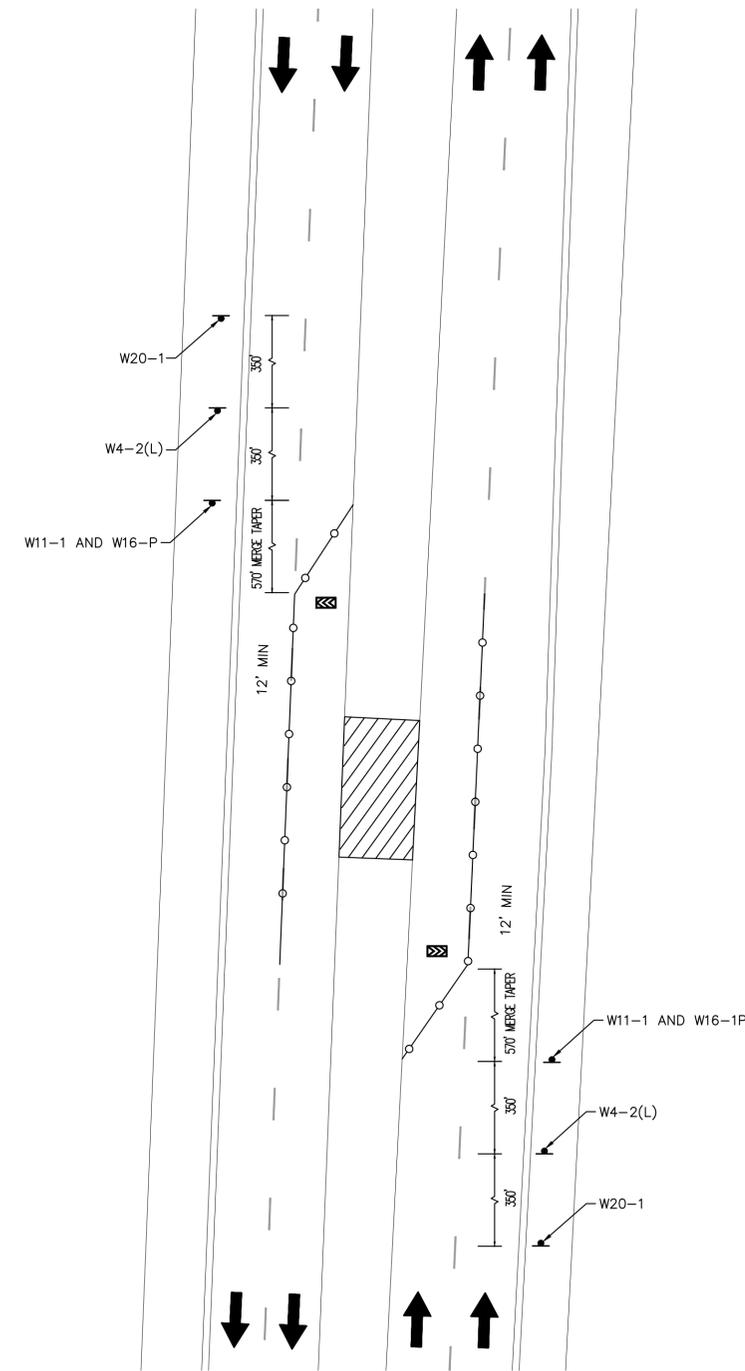
- 
W20-1
36"X36"
- 
W4-2(L)
36"X36"
- 
W11-1
36"X36"
- 
W16-1P
18"X24"

LANE CLOSURE HOURS:

1. LANES CAN ONLY BE CLOSED MONDAY-FRIDAY. EXCLUDING HOLIDAYS.
2. LANE CAN BE CLOSED BETWEEN 9:00 AM-3:00PM. MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES.

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1. LANE CLOSURES SHALL ONLY OCCUR ON LOCAL ROADWAYS AND NOT ON FREEWAY OR HIGHWAY SYSTEMS.
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Job: Job-Kelso May 08, 2024 5:47pm K:\Oak-ITS\087158008 - ccog northern cities ps&e - sr\04_CADD\plan sheets\04_TC-02.dwg

NO.	BY.	DATE	REVISIONS DESCRIPTION

NO.	BY.	DATE	REVISIONS DESCRIPTION

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CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

TEMPORARY TRAFFIC CONTROL

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	42 OF 44 SHEETS
SHEET NO.	TC-02

LEGEND:

-  AREA OF WORK.
-  TUBULAR MARKERS PER CA MUTCD, 36" TALL MIN. SPACED AT 10' O.C. OR AS REQUIRED BY THE CITY OF BRISBANE.
-  WATER FILLED PLASTIC BARRIERS ORANGE 46"x24"x72".
-  TEMPORARY CONSTRUCTION SIGN. SIGN TYPE AS NOTED ON PLANS.
-  INSTALL TEMPORARY WOOD CURB RAMP AT FACE OF CURB. ALL ADA REQUIREMENTS FOR CURB RAMP SHALL BE MET.
-  TYPE A SEQUENTIAL ARROW BOARD. DIRECTION AS NOTED ON PLANS.
-  DIRECTION OF TRAVEL

SIGN LEGEND:

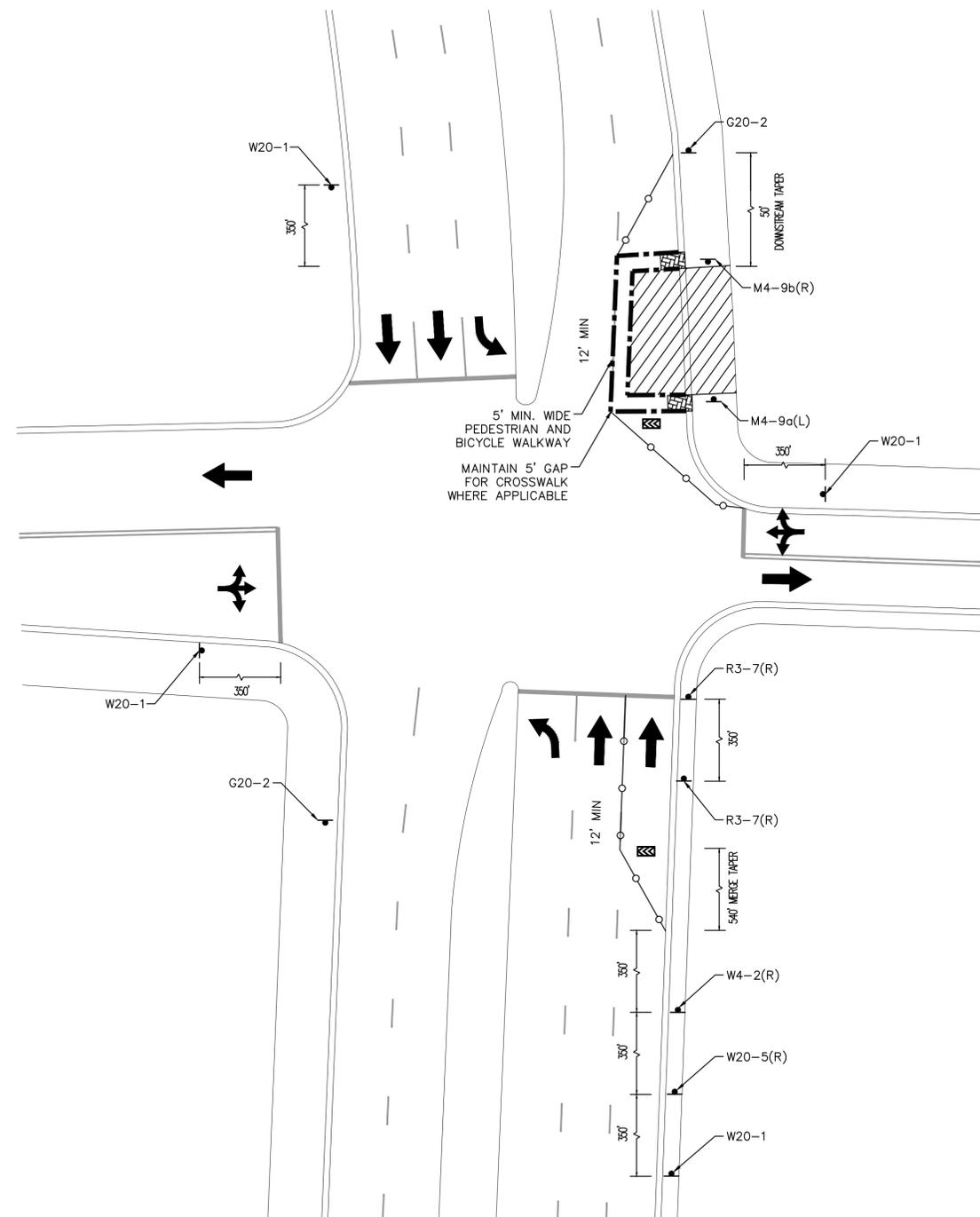
- | | | | |
|--|--|---|---|
| 
W20-1
36"x36" | 
W20-5(R)
36"x36" | 
C30(CA)
30"x30" | 
W4-2(R)
36"x36" |
| 
M4-9a(L)
30"x24" | 
M4-9b(R)
30"x24" | 
G20-2
36"x18" | 
R3-7(R)
30"x30" |

LANE CLOSURE HOURS:

- LANES CAN ONLY BE CLOSED MONDAY-FRIDAY. EXCLUDING HOLIDAYS.
- LANE CAN BE CLOSED BETWEEN 9:00 AM-3:00PM. MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES.

GENERAL NOTES (THIS SHEET ONLY):

- LANE CLOSURES SHALL ONLY OCCUR ON LOCAL ROADWAYS AND NOT ON FREEWAY OR HIGHWAY SYSTEMS.
- ALL DIMENSIONS ARE BASED ON 45 MPH SPEED LIMIT IN AN URBAN AREA. IF SPEED IS NOT 45 MPH, ALL DIMENSIONS SHALL BE ADJUSTED PER LATEST VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



Jobs:Kpsa - May 08, 2024 - 5:47pm K:\Oak_JTS\097158008 - craig northern cities ps&e - src\04_CADD\plan sheets\41 TC-03.dwg

REVISIONS			
NO.	BY.	DATE	DESCRIPTION

REVISIONS			
NO.	BY.	DATE	DESCRIPTION

Kimley»Horn
 1300 Clay Street, Suite 325 Tel. No. (510)625-0712
 Oakland, California 94612 Fax No. (916)608-0885



DRAWN BY:	MEW
DESIGNED BY:	SAR
CHECKED BY:	RRD
APPROVED BY:	RCE

**SMART CORRIDORS
NORTHERN CITIES**

TEMPORARY TRAFFIC CONTROL

JOB NO.	
DATE	MAY 2024
SCALE	AS NOTED
SHEET	43 OF 44 SHEETS
SHEET NO.	TC-03

LEGEND:

-  AREA OF WORK.
-  TUBULAR MARKERS PER CA MUTCD, 36" TALL MIN. SPACED AT 10' O.C. OR AS REQUIRED BY THE CITY OF BRISBANE.
-  TEMPORARY CONSTRUCTION SIGN. SIGN TYPE AS NOTED ON PLANS.
-  TYPE A SEQUENTIAL ARROW BOARD. DIRECTION AS NOTED ON PLANS.
-  DIRECTION OF TRAVEL

SIGN LEGEND:

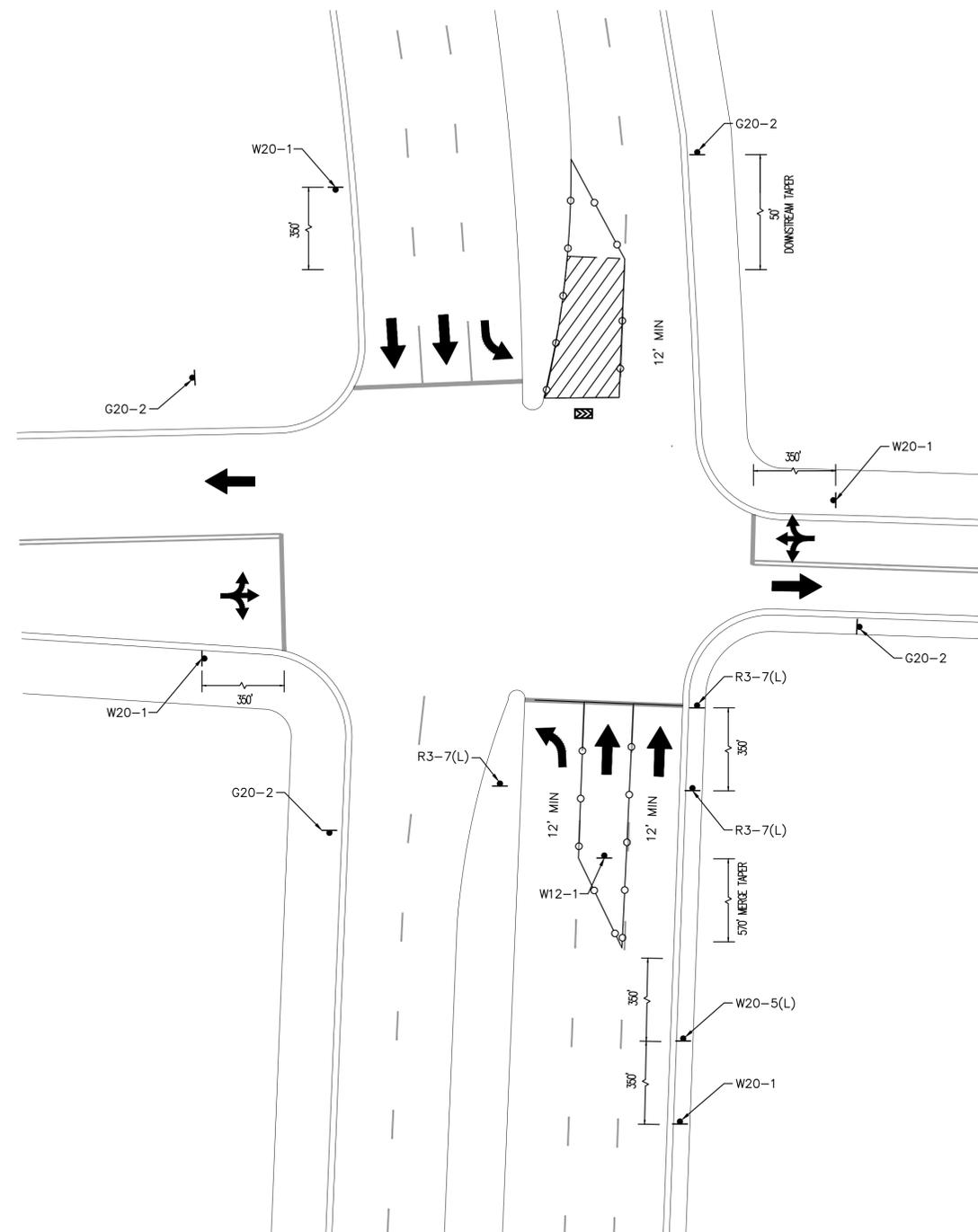
-  ROAD WORK AHEAD
W20-1
36"x36"
-  LEFT LANE CLOSED AHEAD
W20-5(L)
36"x36"
-  W12-1
36"x36"
-  END CONSTRUCTION
G20-2
36"x18"
-  LEFT LANE MUST TURN LEFT
R3-7(L)
30"x30"

LANE CLOSURE HOURS:

- LANES CAN ONLY BE CLOSED MONDAY-FRIDAY, EXCLUDING HOLIDAYS.
- LANE CAN BE CLOSED BETWEEN 9:00 AM-3:00PM. MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES.

GENERAL NOTES (THIS SHEET ONLY):

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Jakob, Keisao May 08, 2024 5:47pm K:\OAK\JTS\097158008 - ccog northern cities ps&e - sra\04_CADD\plan sheets\42_TC-04.dwg

REVISIONS DESCRIPTION

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NO.	BY.	DATE	DESCRIPTION

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DRAWN BY: MEW
 DESIGNED BY: SAR
 CHECKED BY: RRD
 APPROVED BY: RCE

**SMART CORRIDORS
 NORTHERN CITIES**

TEMPORARY TRAFFIC CONTROL

JOB NO.
 DATE MAY 2024
 SCALE AS NOTED
 SHEET 44 OF 44 SHEETS
 SHEET NO.
 TC-04