
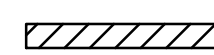
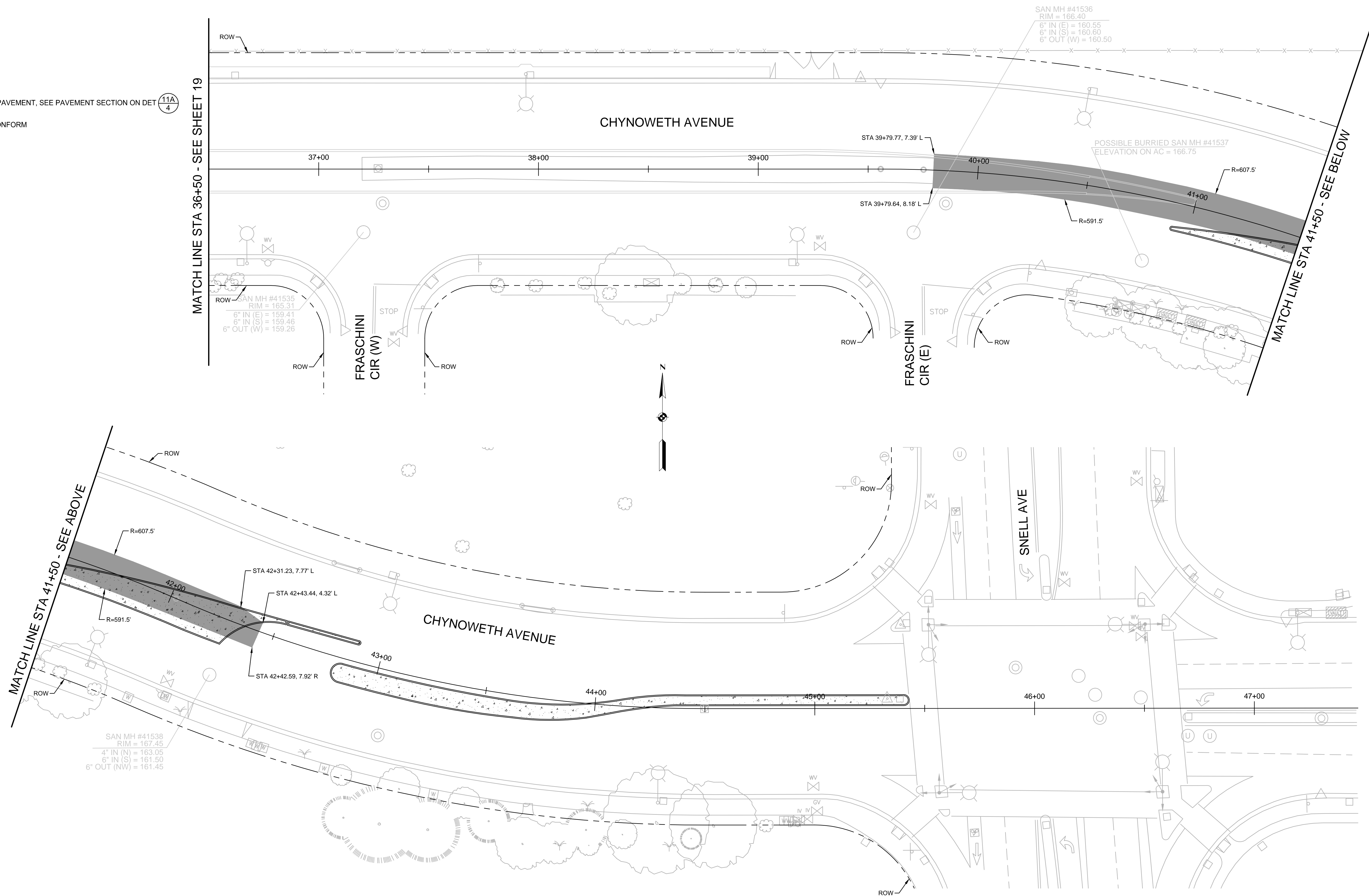


**LEGEND:**

-  NEW PAVEMENT, SEE PAVEMENT SECTION ON DET 11A  
4
-  AC CONFORM



**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
PAVING PLAN  
BETWEEN FRASCHINI CIR (W) AND SNELL AVE**

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	REVISIONS	INITIALS	DATE

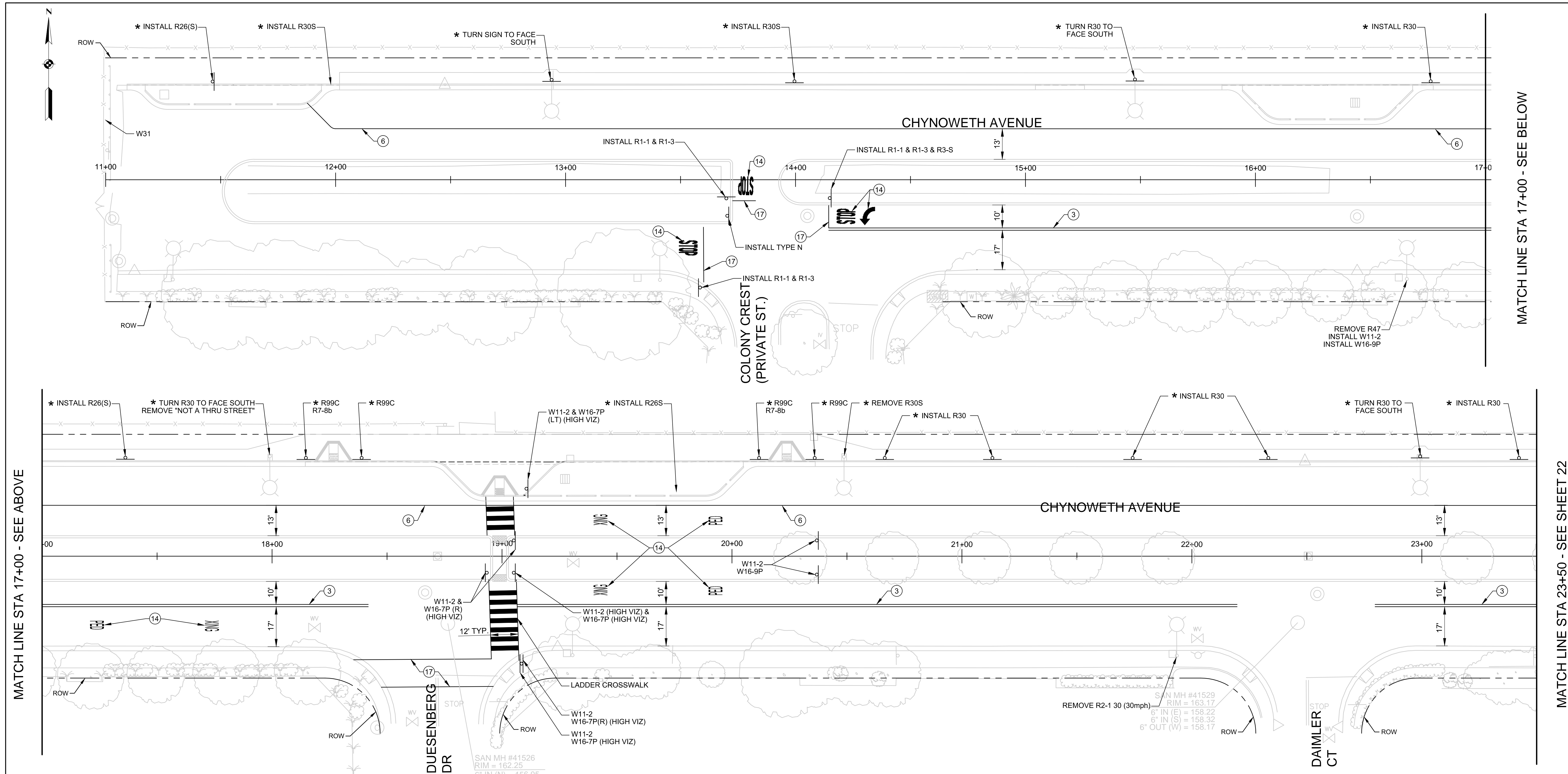
- SANITARY \_\_\_\_\_
- STORM \_\_\_\_\_
- MATERIALS LAB \_\_\_\_\_
- SURVEY \_\_\_\_\_
- LANDSCAPE \_\_\_\_\_
- ROADS & BRIDGES \_\_\_\_\_

- ELECTRICAL \_\_\_\_\_
- CONSTRUCTION \_\_\_\_\_
- TRANSPORTATION \_\_\_\_\_
- TRAFFIC OPERATION \_\_\_\_\_
- MAINTENANCE \_\_\_\_\_
- GEOMETRIC \_\_\_\_\_



<b>DEPARTMENT OF PUBLIC WORKS SAN JOSE, CALIFORNIA</b>	
DESIGNED BY: BC, NA, JY	BARRY NG DIRECTOR OF PUBLIC WORKS
CHECKED BY: BC, JY	
PROJ. MGR.: EY	
DATE: SEPTEMBER 12, 2016	
SCALE: 1" = 20'	
SHEET NO. 20 OF 41 SHEETS	PROJECT ID: 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



MATCH LINE STA 17+00 - SEE ABOVE

MATCH LINE STA 17+00 - SEE BELOW

MATCH LINE STA 23+50 - SEE SHEET 22

**STRIPING LEGEND**

STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT
1 STATE DETAIL 9 (MODIFIED)	8 STATE DETAIL 32	15 CHATTER BARS	22 BICYCLE LOOP DETECTOR SYMBOL
2 STATE DETAIL 12 (MODIFIED)	9 STATE DETAIL 37B	16 TYPE "AY" MARKER	23 STATE DETAIL 39A (MODIFIED)
3 STATE DETAIL 22	10 STATE DETAIL 38B	17 SOLID 12" WHITE	24 YIELD LINE
4 STATE DETAIL 23	11 STATE DETAIL 39	18 SOLID 12" YELLOW	25 GREEN PAVEMENT ENHANCEMENT
5 STATE DETAIL 25	12 STATE DETAIL 39A	19 SOLID 24" WHITE	26 RESERVED FOR FUTURE USE
6 STATE DETAIL 27B	13 STATE DETAIL 40A	20 STATE DETAIL 26	27 SOLID 24" YELLOW
7 STATE DETAIL 29	14 ARROW / MESSAGES	21 STATE DETAIL 40	28 STATE DETAIL 41

**CONTRACTOR TO INSTALL ALL SIGNAGE EXCEPT FOR ONES THAT ARE NOTED.**

**NOTE:**

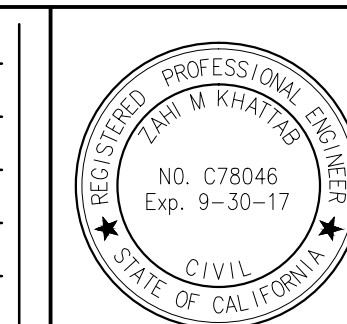
\* - SIGNS TO BE INSTALLED BY OTHERS (DOT).

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
SIGNAGE AND STRIPING PLAN  
BETWEEN COLONY CREST AND DAIMLER CT**

NO.	REVISIONS	INITIALS	DATE
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SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_



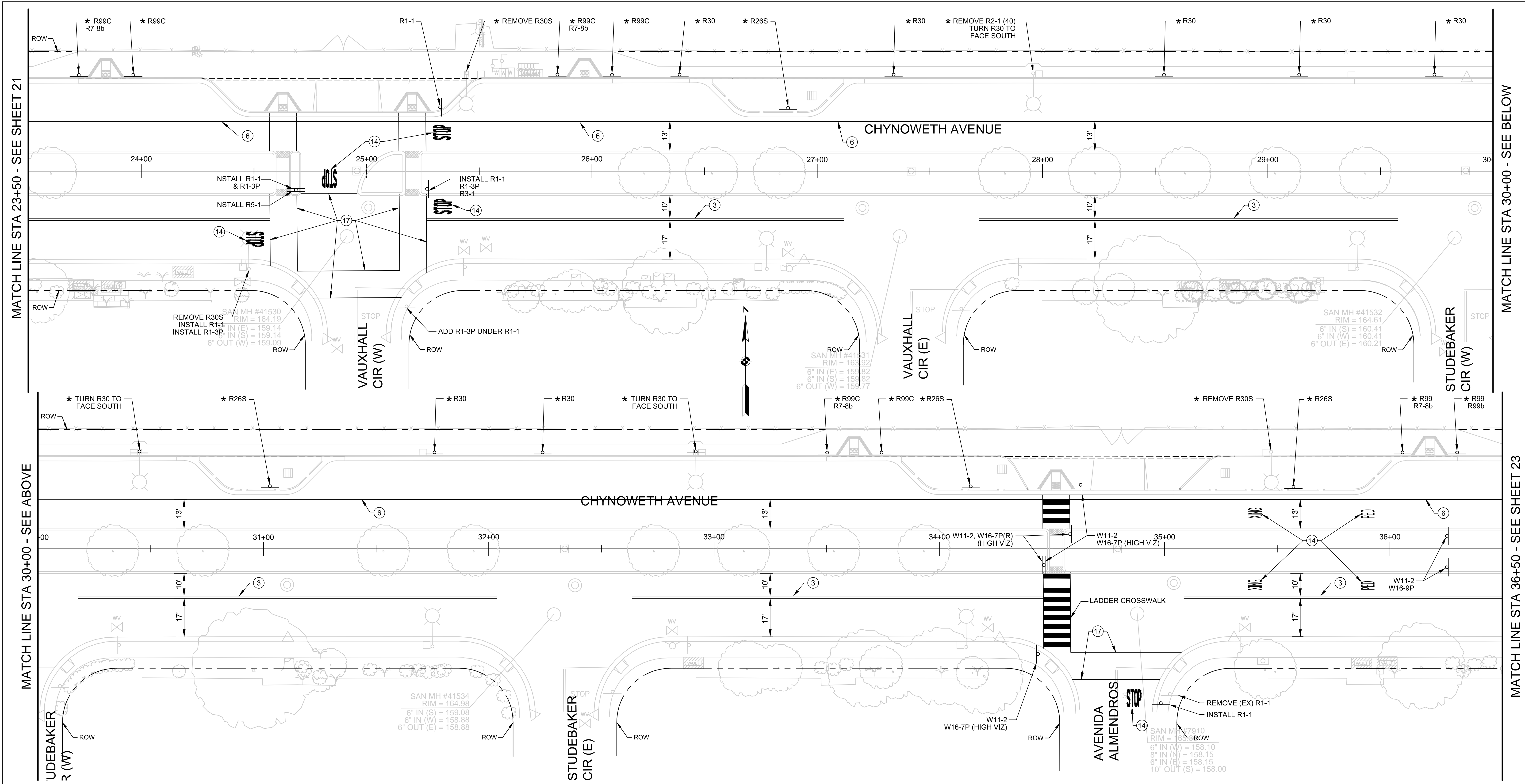
**DEPARTMENT OF PUBLIC WORKS  
SAN JOSE, CALIFORNIA**

DESIGNED BY: BC, NA, JY  
CHECKED BY: BC, JY  
PROJ. MGR.: EY  
DATE: SEPTEMBER 12, 2016  
SCALE: 1" = 20'  
SHEET NO. 21 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID: 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



MATCH LINE STA 23+50 - SEE SHEET 21

MATCH LINE STA 30+00 - SEE BELOW

MATCH LINE STA 30+00 - SEE ABOVE

MATCH LINE STA 36+50 - SEE SHEET 23

**STRIPING LEGEND**

STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT
1 STATE DETAIL 9 (MODIFIED)	8 STATE DETAIL 32	15 CHATTER BARS	22 BICYCLE LOOP DETECTOR SYMBOL
2 STATE DETAIL 12 (MODIFIED)	9 STATE DETAIL 37B	16 TYPE "AY" MARKER	23 STATE DETAIL 39A (MODIFIED)
3 STATE DETAIL 22	10 STATE DETAIL 38B	17 SOLID 12" WHITE	24 YIELD LINE
4 STATE DETAIL 23	11 STATE DETAIL 39	18 SOLID 12" YELLOW	25 GREEN PAVEMENT ENHANCEMENT
5 STATE DETAIL 25	12 STATE DETAIL 39A	19 SOLID 24" WHITE	26 RESERVED FOR FUTURE USE
6 STATE DETAIL 27B	13 STATE DETAIL 40A	20 STATE DETAIL 26	27 SOLID 24" YELLOW
7 STATE DETAIL 29	14 ARROW / MESSAGES	21 STATE DETAIL 40	28 STATE DETAIL 41

**CONTRACTOR TO INSTALL ALL SIGNAGE EXCEPT FOR ONES THAT ARE NOTED.**

**NOTE:**  
\* - SIGNS TO BE INSTALLED BY OTHERS (DOT).

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
SIGNAGE AND STRIPING PLAN  
BETWEEN VAUXHALL CIR (W) AND AVENIDA ALMENDROS**

NO.	REVISIONS	INITIALS	DATE
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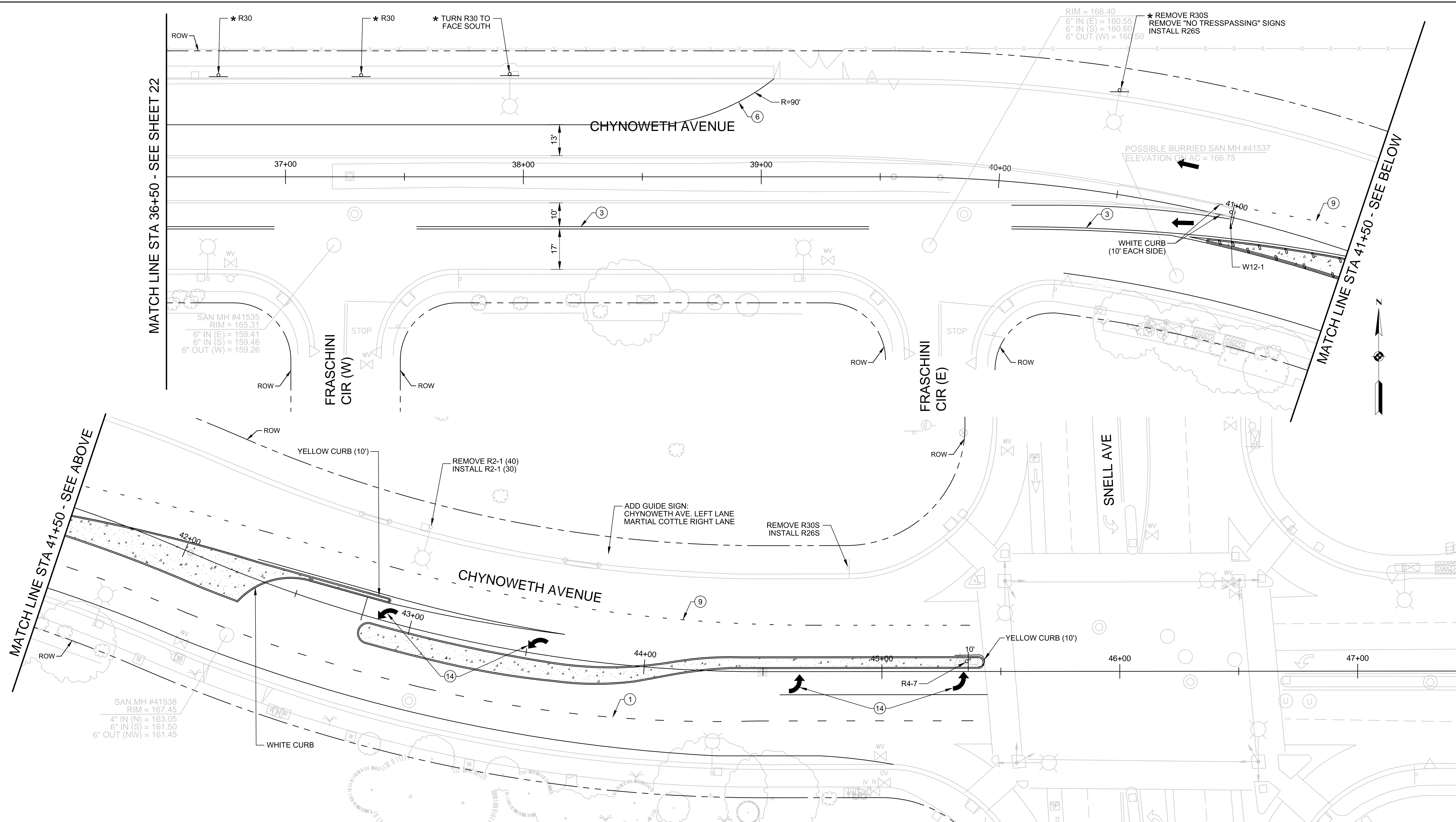
SANITARY	_____
STORM	_____
MATERIALS LAB	_____
SURVEY	_____
LANDSCAPE	_____
ROADS & BRIDGES	_____
ELECTRICAL	_____
CONSTRUCTION	_____
TRANSPORTATION	_____
TRAFFIC OPERATION	_____
MAINTENANCE	_____
GEOMETRIC	_____



**DEPARTMENT OF PUBLIC WORKS  
SAN JOSE, CALIFORNIA**

DESIGNED BY:	BC, NA, JY	BARRY NG
CHECKED BY:	BC, JY	DIRECTOR OF PUBLIC WORKS
PROJ. MGR.:	EY	
DATE:	SEPTEMBER 12, 2016	
SCALE:	1" = 20'	
SHEET NO.	22	OF 41 SHEETS
PROJECT ID.	7756	

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



**STRIPING LEGEND**

STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT
1 STATE DETAIL 9 (MODIFIED)	8 STATE DETAIL 32	15 CHATTER BARS	22 BICYCLE LOOP DETECTOR SYMBOL
2 STATE DETAIL 12 (MODIFIED)	9 STATE DETAIL 37B	16 TYPE "AY" MARKER	23 STATE DETAIL 39A (MODIFIED)
3 STATE DETAIL 22	10 STATE DETAIL 38B	17 SOLID 12" WHITE	24 YIELD LINE
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5 STATE DETAIL 25	12 STATE DETAIL 39A	19 SOLID 24" WHITE	26 RESERVED FOR FUTURE USE
6 STATE DETAIL 27B	13 STATE DETAIL 40A	20 STATE DETAIL 26	27 SOLID 24" YELLOW
7 STATE DETAIL 29	14 ARROW / MESSAGES	21 STATE DETAIL 40	28 STATE DETAIL 41

**CONTRACTOR TO INSTALL ALL SIGNAGE EXCEPT FOR ONES THAT ARE NOTED.**

**NOTE:**  
\* - SIGNS TO BE INSTALLED BY OTHERS (DOT).

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
SIGNAGE AND STRIPING PLAN - ALT-1  
BETWEEN FRASCHINI CIR (W) AND SNELL AVE**

NO.	REVISIONS	INITIALS	DATE
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SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_



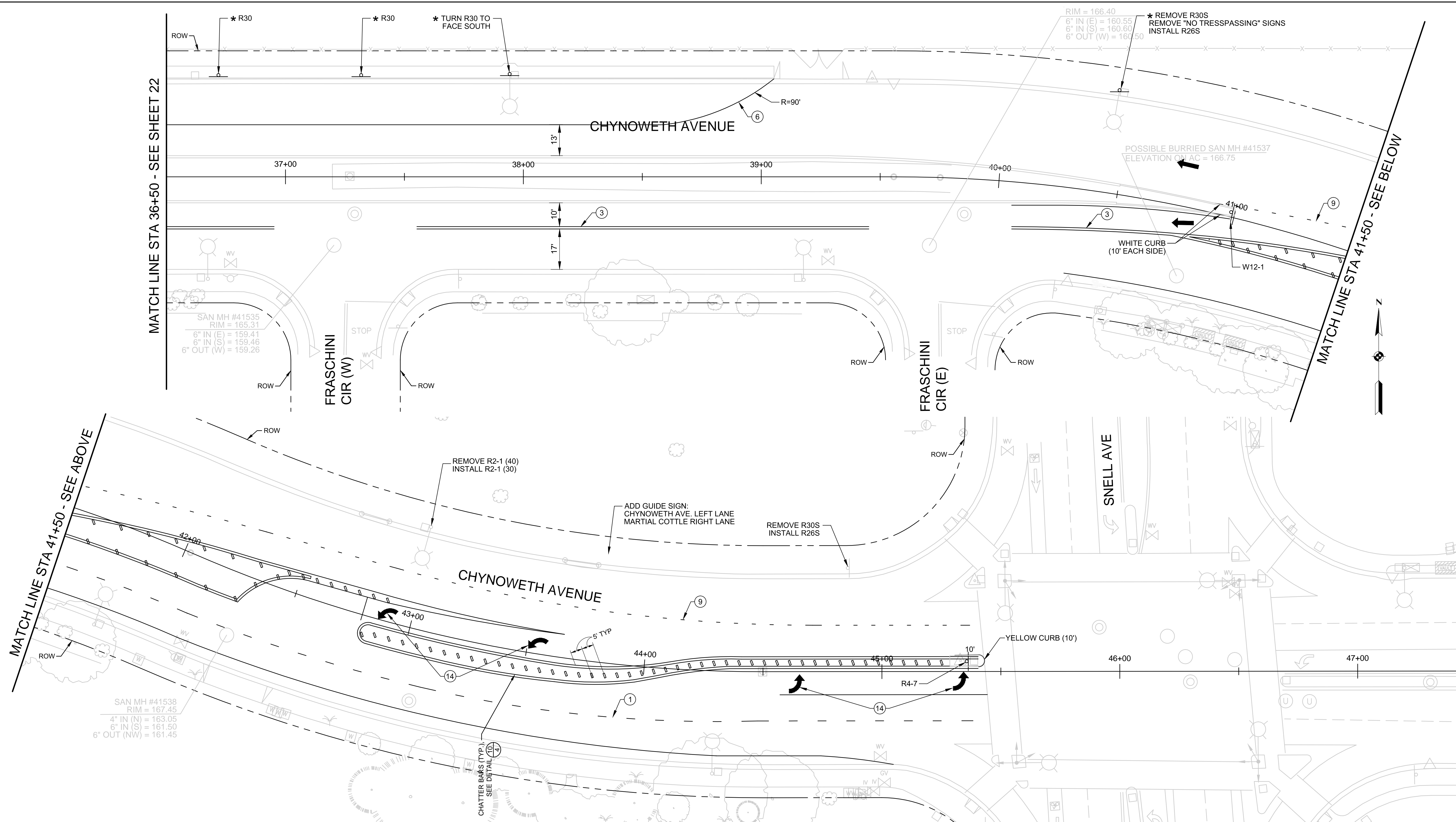
**DEPARTMENT OF PUBLIC WORKS  
SAN JOSE, CALIFORNIA**

DESIGNED BY: BC, NA, JY  
CHECKED BY: BC, JY  
PROJ. MGR.: EY  
DATE: SEPTEMBER 12, 2016  
SCALE: 1" = 20'  
SHEET NO. 23 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID: 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



**STRIPING LEGEND**

STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT	STRIPING ELEMENT
1 STATE DETAIL 9 (MODIFIED)	8 STATE DETAIL 32	15 CHATTER BARS	22 BICYCLE LOOP DETECTOR SYMBOL
2 STATE DETAIL 12 (MODIFIED)	9 STATE DETAIL 37B	16 TYPE "AY" MARKER	23 STATE DETAIL 39A (MODIFIED)
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7 STATE DETAIL 29	14 ARROW / MESSAGES	21 STATE DETAIL 40	28 STATE DETAIL 41

**CONTRACTOR TO INSTALL ALL SIGNAGE EXCEPT FOR ONES THAT ARE NOTED.**

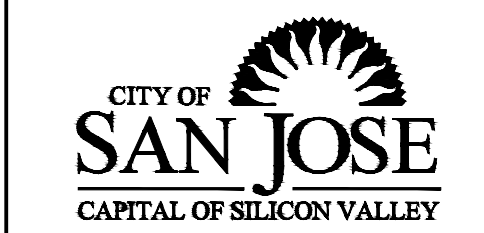
**NOTE:**  
\* - SIGNS TO BE INSTALLED BY OTHERS (DOT).

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
SIGNAGE AND STRIPING PLAN - ALT-2  
BETWEEN FRASCHINI CIR (W) AND SNELL AVE**

NO.	REVISIONS	INITIALS	DATE
6			
5			
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SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_



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SAN JOSE, CALIFORNIA**

DESIGNED BY: BC, NA, JY  
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PROJ. MGR.: EY  
DATE: SEPTEMBER 12, 2016  
SCALE: 1" = 20'  
SHEET NO. 23A OF 41 SHEETS

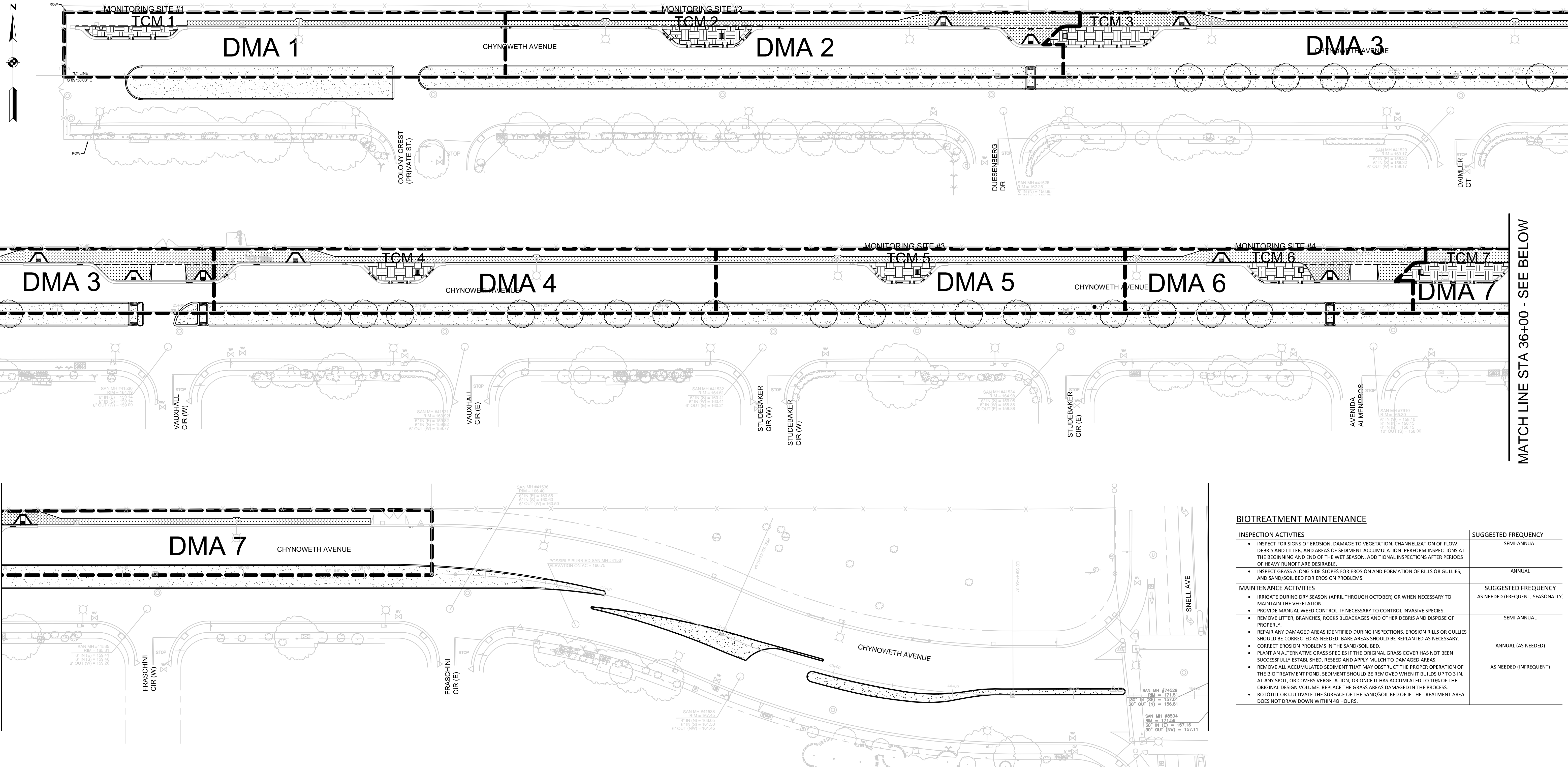
BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID: 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT

MATCH LINE STA 23+50 - SEE BELOW

MATCH LINE STA 36+00 - SEE BELOW



MATCH LINE STA 23+50 - SEE ABOVE

MATCH LINE STA 36+00 - SEE ABOVE

**BIOTREATMENT MAINTENANCE**

INSPECTION ACTIVITIES	SUGGESTED FREQUENCY
<ul style="list-style-type: none"> <li>INSPECT FOR SIGNS OF EROSION, DAMAGE TO VEGETATION, CHANNELIZATION OF FLOW, DEBRIS AND LITTER, AND AREAS OF SEDIMENT ACCUMULATION. PERFORM INSPECTIONS AT THE BEGINNING AND END OF THE WET SEASON. ADDITIONAL INSPECTIONS AFTER PERIODS OF HEAVY RUNOFF ARE DESIRABLE.</li> </ul>	SEMI-ANNUAL
<ul style="list-style-type: none"> <li>INSPECT GRASS ALONGSIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, AND SAND/SOIL BED FOR EROSION PROBLEMS.</li> </ul>	ANNUAL
MAINTENANCE ACTIVITIES	SUGGESTED FREQUENCY
<ul style="list-style-type: none"> <li>IRRIGATE DURING DRY SEASON (APRIL THROUGH OCTOBER) OR WHEN NECESSARY TO MAINTAIN THE VEGETATION.</li> <li>PROVIDE MANUAL WEED CONTROL, IF NECESSARY TO CONTROL INVASIVE SPECIES.</li> <li>REMOVE LITTER, BRANCHES, ROCKS BLOCKAGES AND OTHER DEBRIS AND DISPOSE OF PROPERLY.</li> <li>REPAIR ANY DAMAGED AREAS IDENTIFIED DURING INSPECTIONS. EROSION RILLS OR GULLIES SHOULD BE CORRECTED AS NEEDED. BARE AREAS SHOULD BE REPLANTED AS NECESSARY.</li> <li>CORRECT EROSION PROBLEMS IN THE SAND/SOIL BED.</li> <li>PLANT AN ALTERNATIVE GRASS SPECIES IF THE ORIGINAL GRASS COVER HAS NOT BEEN SUCCESSFULLY ESTABLISHED. RESEED AND APPLY MULCH TO DAMAGED AREAS.</li> <li>REMOVE ALL ACCUMULATED SEDIMENT THAT MAY OBSTRUCT THE PROPER OPERATION OF THE BIOTREATMENT POND. SEDIMENT SHOULD BE REMOVED WHEN IT BUILDS UP TO 3 IN. AT ANY SPOT, OR COVERS VEGETATION, OR ONCE IT HAS ACCUMULATED TO 10% OF THE ORIGINAL DESIGN VOLUME. REPLACE THE GRASS AREAS DAMAGED IN THE PROCESS.</li> <li>ROTTILL OR CULTIVATE THE SURFACE OF THE SAND/SOIL BED OF IF THE TREATMENT AREA DOES NOT DRAW DOWN WITHIN 48 HOURS.</li> </ul>	AS NEEDED (FREQUENT, SEASONALLY)
	SEMI-ANNUAL
	ANNUAL (AS NEEDED)
	AS NEEDED (INFREQUENT)

**LEGEND:**

- BIORETENTION AREA
- TREATMENT AREA LIMITS
- DMA** DRAINAGE MANAGEMENT AREA
- TCM** TREATMENT CONTROL MEASURE

\*NOTE  
THIS PROJECT IS EXEMPT FROM POST  
CONSTRUCTION STORMWATER TREATMENT PER  
SECTION 2.3 OF THE C.3 STORMWATER HANDBOOK

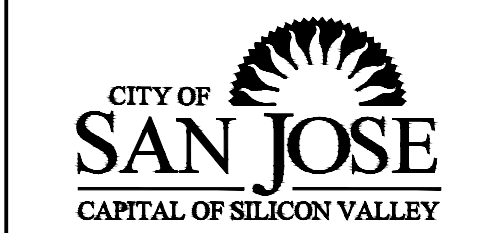
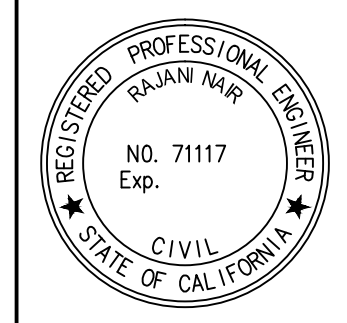
TOTAL IMPERVIOUS AREA TO BE TREATED (SF)	89,956
EXISTING IMPERVIOUS PAVEMENT AND BARREN DIRT MEDIAN TO BE ELIMINATED (SF)	51,667 (27,117 SF IMPERVIOUS)
BIORETENTION AREA CREATED (SF)	5,597
TOTAL IMPERVIOUS REMOVED TO PERVIOUS (SF)	32,714

TREATMENT CONTROL SUMMARY TABLE							
AREA	TCM#	TREATMENT TYPE	DRAINAGE AREA (SF)	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	BIORETENTION AREA REQUIRED (SF)	BIORETENTION AREA PROVIDED (SF)
DMA 1	1	BIORETENTION	19413	12445	6968	497.8	574
DMA 2	2	BIORETENTION	24452	14349	10103	573.96	709
DMA 3	3	BIORETENTION	31948	18999	12949	759.96	1185
DMA 4	4	BIORETENTION	21988	13177	8811	527.08	680
DMA 5	5	BIORETENTION	17923	10715	7208	428.6	626
DMA 6	6	BIORETENTION	12639	6539	6100	261.56	659
DMA 7	7	BIORETENTION	23225	13732	9493	549.28	1164

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
STORMWATER MANAGEMENT PLAN  
CHYNOWETH AVENUE**

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	REVISIONS	INITIALS	DATE

- SANITARY \_\_\_\_\_
- STORM \_\_\_\_\_
- MATERIALS LAB \_\_\_\_\_
- SURVEY \_\_\_\_\_
- LANDSCAPE \_\_\_\_\_
- ROADS & BRIDGES \_\_\_\_\_
- ELECTRICAL \_\_\_\_\_
- CONSTRUCTION \_\_\_\_\_
- TRANSPORTATION \_\_\_\_\_
- TRAFFIC OPERATION \_\_\_\_\_
- MAINTENANCE \_\_\_\_\_
- GEOMETRIC \_\_\_\_\_



**DEPARTMENT OF PUBLIC WORKS  
SAN JOSE, CALIFORNIA**

DESIGNED BY: BC, NA, JY	BARRY NG DIRECTOR OF PUBLIC WORKS
CHECKED BY: BC, JY	
PROJ. MGR.: EY	
DATE: SEPTEMBER 12, 2016	
SCALE: 1" = 40'	
SHEET NO. 24 OF 41 SHEETS	PROJECT ID. 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT

**GENERAL NOTES** - Unless Noted Otherwise

- THE EXISTING CONDITIONS SHOWN ON THE PLANS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO INDICATE THE LOCATION OF EXISTING CONDITIONS SUCH AS UTILITIES, STRUCTURES, IMPROVEMENTS, ETCETERA OR LACK THEREOF. EXISTING CONDUITS AND PULL BOXES ARE SHOWN SCHEMATICALLY AND INDICATE APPROXIMATE LOCATION ONLY.
- THE LOCATION OF THE PROPOSED FACILITIES TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE SCHEMATIC ONLY. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION; HOWEVER, ALL NEW CONDUIT, EVEN SHOWN ON THE STREET, SHALL BE CONSTRUCTED BEHIND CURB, UNLESS NOTED OTHERWISE.
- SYMBOLS ARE NOT INTENDED TO REPRESENT EXACT SCALE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND DEPTHS OF EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. UTILITY COMPANIES AND USA SHALL BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION WITHIN PROJECT AREA. (USA 800-227-2600) SEE SHEETS TITLED "CIVIL EXISTING UTILITY PLAN" FOR MORE INFORMATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITY FACILITIES (GAS, WATER, ELEC, SEWER, TELEPHONE, FIBER OPTICS, ETC.) WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND HAVE THEM MARK THESE FACILITIES.

**LEGEND** (REFER TO CSJ STANDARD DETAILS FOR ADDITIONAL SYMBOLS)

- EXISTING CSJ UNDERGROUND SERVICE
- INSTALL CSJ UNDERGROUND SERVICE
- EXISTING ELECTROLIER
- EXISTING CONDUIT
- INSTALL SCHEDULE 40 P.V.C. CONDUIT, U.N.O.
- EXISTING PULL BOX
- INSTALL CSJ #3 1/2 PULL BOX
- NEW IRRIGATION CONTROLLER
- REMOVE EXISTING SERVICE CABINET
- NEW SERVICE CABINET

**ABBREVIATIONS**

GENERAL	
U.N.O.	UNLESS NOTED OTHERWISE
CSJ	CITY OF SAN JOSE
SCH	SCHEDULE
P.V.C.	POLYVINYL CHLORIDE
P.C.C.	PORTLAND CEMENT CONCRETE
TYP.	TYPICAL
L.P.S.	LOW PRESSURE SODIUM
H.P.S.	HIGH PRESSURE SODIUM
W.U.P.	WOOD UTILITY POLE
W.P.E.	WOOD POLE ELECTROLIER
SL	STREETLIGHT
G	GROUND
TS	TRAFFIC SIGNAL
N	NEUTRAL
LED	LIGHT EMITTING DIODE
MT	CONDUIT WITH PULL WIRE
E	EXISTING TO REMAIN
SERVICE	
DIS	PG&E TO DISCONNECT
CON	PG&E TO CONNECT
DRC	PG&E TO DISCONNECT AND RECONNECT
ME	MATCH EXISTING
OH OR O/H	OVERHEAD
UG OR U/G	UNDERGROUND

**STANDARD NOTES**

- AB** ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- BC** INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- CC** CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- CF** CONDUIT TO REMAIN FOR FUTURE USE, REMOVE CONDUCTORS. INSTALL PULL WIRE.
- FA** FOUNDATION TO BE ABANDONED.
- FR** FOUNDATION TO BE REMOVED.
- RL** RELOCATE EQUIPMENT.
- RS** REMOVE AND SALVAGE EQUIPMENT.
- SC** SPLICE NEW TO EXISTING CONDUCTORS.
- RI** REMOVE EXISTING CONDUCTORS. INSTALL NEW CONDUCTORS AS INDICATED.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.

**ELECTRICAL NOTES**

- MATERIAL SUBMITTALS: A LIST OF THE MATERIALS PROPOSED BY THE CONTRACTOR TO BE USED ON THIS PROJECT FOR STREET LIGHTING INCLUDING, BUT NOT LIMITED TO LUMINAIRES, POLES, CONDUIT, CONDUCTORS, PULL BOXES, AND SERVICE EQUIPMENT SHALL BE SUBMITTED TO THE CITY'S PROJECT INSPECTOR FOR REVIEW PRIOR TO THE START OF WORK. THIS LIST SHALL INCLUDE THE MANUFACTURER'S SPECIFICATIONS FOR ALL APPLICABLE PRODUCTS.
- SERVICES:
  - CONTRACTOR SHALL INSTALL A 240V SERVICE NEXT TO EACH PG&E SECONDARY BOX USED FOR STREETLIGHT SERVICE, UNLESS SPECIFIED OTHERWISE.
  - ALL ELECTRIC SERVICE POINTS SHOWN ON THESE PLANS WERE DETERMINED BY PG&E AND ARE TENTATIVE AND SHOWN FOR REFERENCE ONLY. THE ACTUAL SERVICE POINT(S) MUST BE CONFIRMED WITH PG&E PRIOR TO CONSTRUCTION OF ELECTRICAL WORK. ALL ADDITIONAL COSTS INCURRED FOR WORK MODIFICATIONS REQUIRED DUE TO FINAL SERVICE POINT LOCATIONS/ADJUSTMENTS SHALL BE BORN BY THE PERMITTEE. IF THE FINAL SERVICE POINT LOCATION(S) DIFFER FROM THE TENTATIVE LOCATION(S) SHOWN ON THE PLANS, THE PERMITTEE SHALL REVISE THE PLANS AND NOTIFY THE PUBLIC WORKS INSPECTOR OF ANY CHANGES AND SHALL OBTAIN CITY APPROVAL OF CHANGES PRIOR TO INSTALLATION OF ELECTRICAL WORK.
- ALL NEW PULLBOXES SHALL BE #3-1/2 UNLESS NOTED OTHERWISE.
- PULL BOX COVER REPLACEMENT AND NEW PULL BOXES SHALL BE THEFT DETERRENT AND SHALL CONFORM TO ANSI/SCTE 77 TIER 22. COVERS SHALL HAVE A NON-SLIP POLYMER TOP SURFACE AND SHALL BE SECURED BY A MINIMUM OF TWO (2) 1/2" - 13 THREADED BY 1 1/2" LONG SECURITY BOLTS. ALL METALLIC CONDUCTIVE PARTS SHALL BE BONDED BY A BONDING JUMPER WITH A RING TERMINAL AND A SELF-LOCKING WASHER. COVER SHALL BE MR STEEL, OR STEEL STOP, OR EQUAL.

**PROJECT NOTES**

ALL CONDUIT SIZES ARE IN INCHES

- 1** INSTALL 1 1/2" C, 2 #10 (IRRIGATION CONTROLLER, 120V)  
1 #8 (G)
- 2** EXISTING CONDUIT;  
INSTALL 2 #8 (STREET LIGHT CKT 1, 240V)  
2 #8 (STREET LIGHT CKT 2, 240V)  
3 #14 (STREET LIGHT CONTROL, 120V)  
2 #10 (IRRIGATION CONTROLLER, 120V)  
1 #8 (G)
- 3** EXISTING CONDUIT;  
EXISTING 2 #8 (STREET LIGHT CKT 1, 240V)  
2 #8 (STREET LIGHT CKT 2, 240V)
- 4** EXISTING CONDUIT;  
EXISTING 3 #4 (SERVICE FEEDER, 120V/240V)
- 5** INSTALL 3/4" C, 2 #10 (IRRIGATION CONTROLLER, 120V)  
1 #8 (G)
- 6** EXISTING CONDUIT;  
EXISTING 2 #8 (STREET LIGHT CKT 2, 240V)
- 7** INSTALL 1 1/2" C, 2 #8 (STREET LIGHT CKT 2, 240V)  
1 #8 (G)

LOCATION: CHYNOWETH AVE & VAUXHALL CIR (W)

SERVICE CABINET EQUIPMENT SCHEDULE					
ITEM	QUAN-TITY	CURRENT RATING	POLES	CIRCUIT VOLTAGE	METERING STATUS
MAIN CIRCUIT BREAKER	1	100A	2	240V	METERED
MAIN CIRCUIT BREAKER	1	100A	2	240V	UNMETERED
TRAFFIC SIGNAL CIRCUIT BREAKER	1	60A	1	120V	METERED
STREETLIGHT CONTROL CIRCUIT BREAKER	1	15A	1	120V	UNMETERED
STREETLIGHT CIRCUIT BREAKER	2	40A	2	240V	UNMETERED
IRRIGATION CONTROL CIRCUIT BREAKER	1	15A	1	120V	METERED
SPARE CIRCUIT BREAKER	1	20A	1	120V	METERED
SPARE CIRCUIT BREAKER	2	30A	2	240V	UNMETERED
GFCI RECEPTACLE	1	15A	1	120V	METERED
STREETLIGHT CONTACTOR (120V COIL)	2	40A	4	240V	
METER SOCKET	1	100A			

**STREETLIGHT LUMINAIRE SCHEDULE**

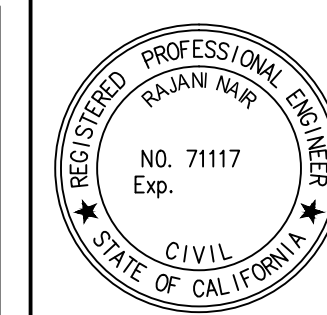
FIXTURE	DESCRIPTION
LKc	LEOTEK ECOBRA CAT#EC4-14M-MV-NW-3-GY-700-PCR7CR-WL OR EQUAL

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT**  
**ELECTRICAL**  
**DETAILS, ABBREVIATIONS, NOTES & LEGEND**

6			
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	REVISIONS	INITIALS	DATE

SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_

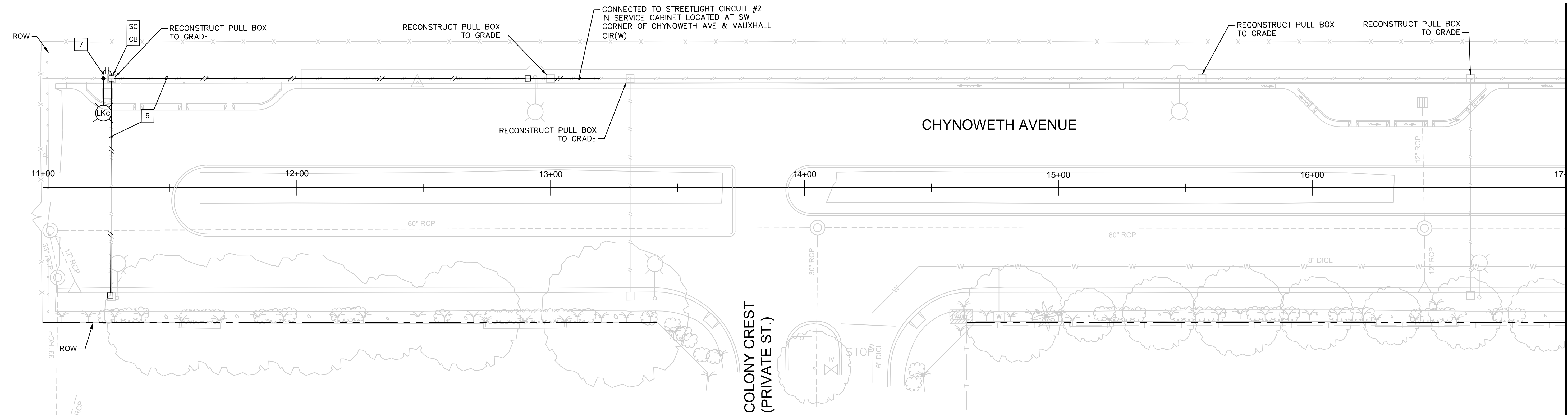


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**SAN JOSE, CALIFORNIA**

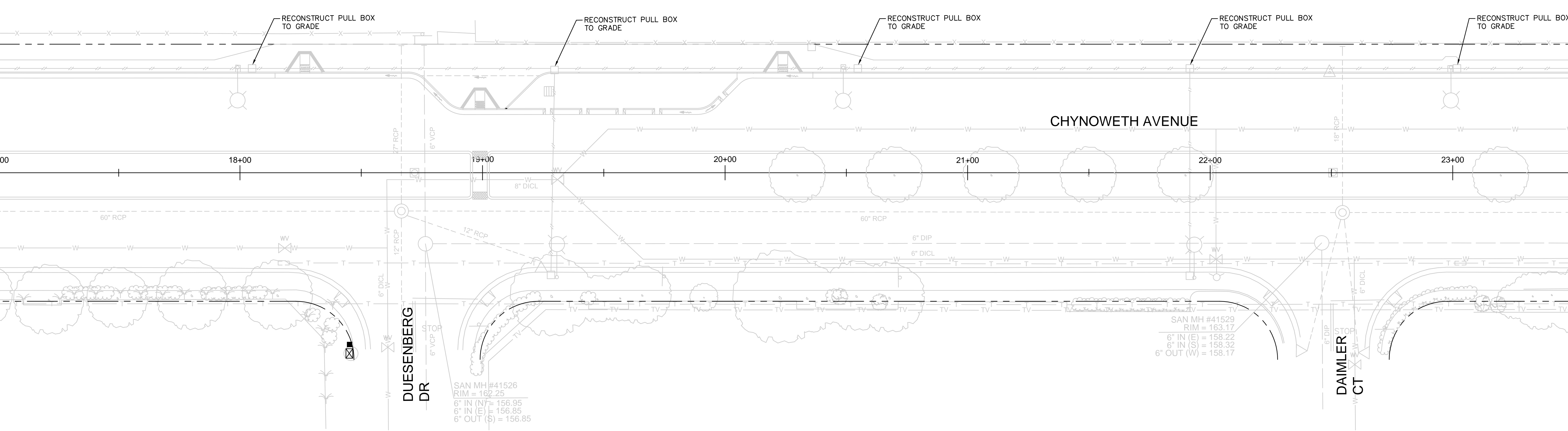
DESIGNED BY: BC, NA, JY  
CHECKED BY: BC, JY  
PROJ. MGR.: EY  
DATE: SEPTEMBER 12, 2016  
SCALE: NONE  
SHEET NO. 25 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID. 7756

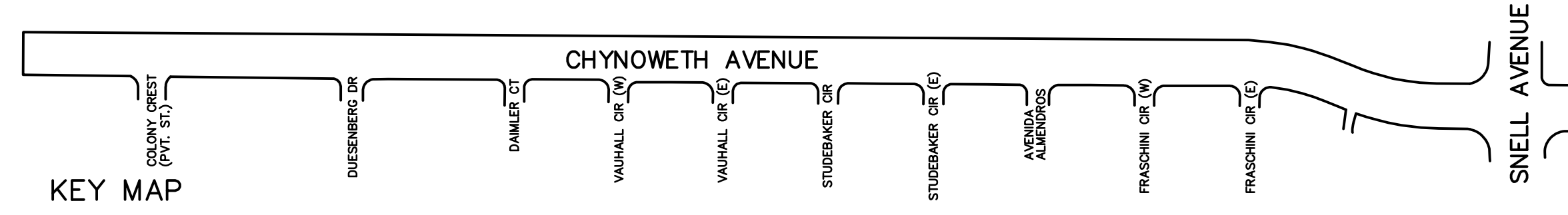
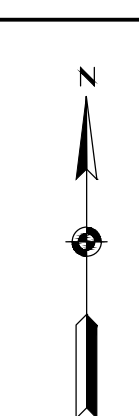


MATCH LINE STA 17+00 - SEE BELOW



MATCH LINE STA 17+00 - SEE SHEET ABOVE

MATCH LINE STA 23+50 - SEE SHEET 27

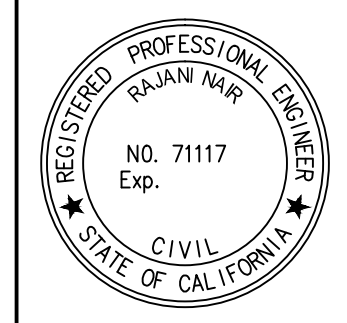


**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
ELECTRICAL PLAN  
BETWEEN COLONY CREST AND END OF CHYNOWETH AVE**

NO.	REVISIONS	INITIALS	DATE
6			
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- SANITARY \_\_\_\_\_
- STORM \_\_\_\_\_
- MATERIALS LAB \_\_\_\_\_
- SURVEY \_\_\_\_\_
- LANDSCAPE \_\_\_\_\_
- ROADS & BRIDGES \_\_\_\_\_

- ELECTRICAL \_\_\_\_\_
- CONSTRUCTION \_\_\_\_\_
- TRANSPORTATION \_\_\_\_\_
- TRAFFIC OPERATION \_\_\_\_\_
- MAINTENANCE \_\_\_\_\_
- GEOMETRIC \_\_\_\_\_



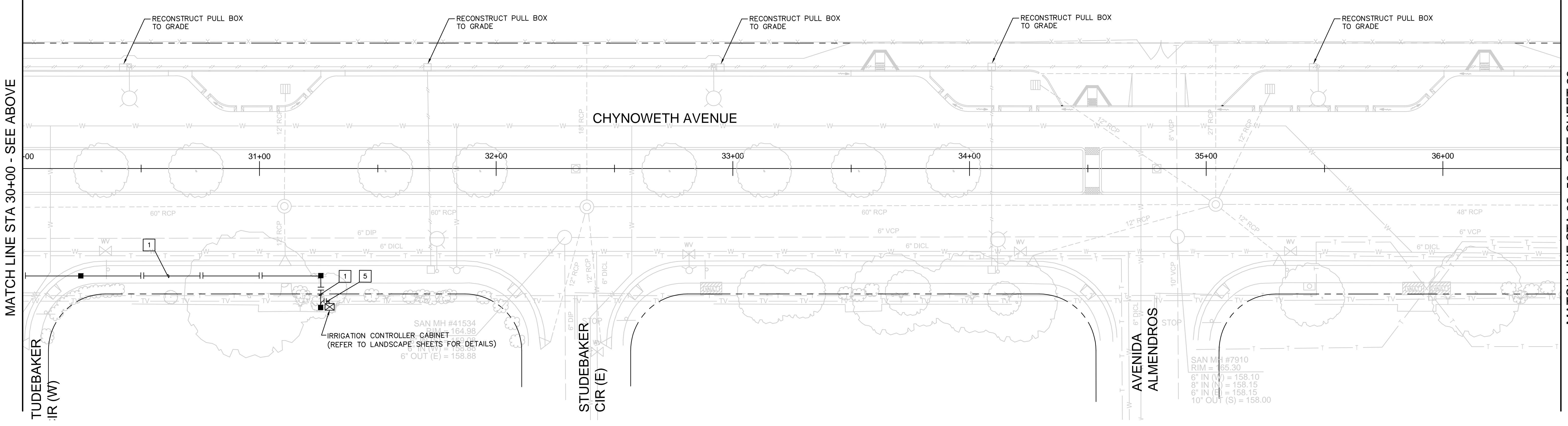
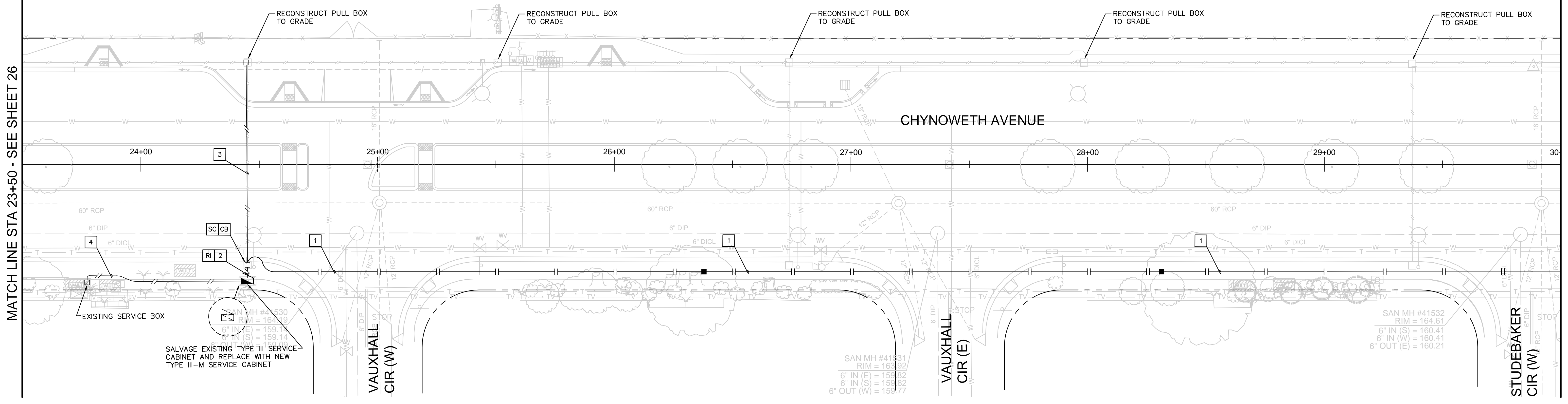
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SAN JOSE, CALIFORNIA**

DESIGNED BY: BC, NA, JY  
 CHECKED BY: BC, JY  
 PROJ. MGR.: EY  
 DATE: SEPTEMBER 12, 2016  
 SCALE: NONE  
 SHEET NO. 26 OF 41 SHEETS

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PROJECT ID: 7756



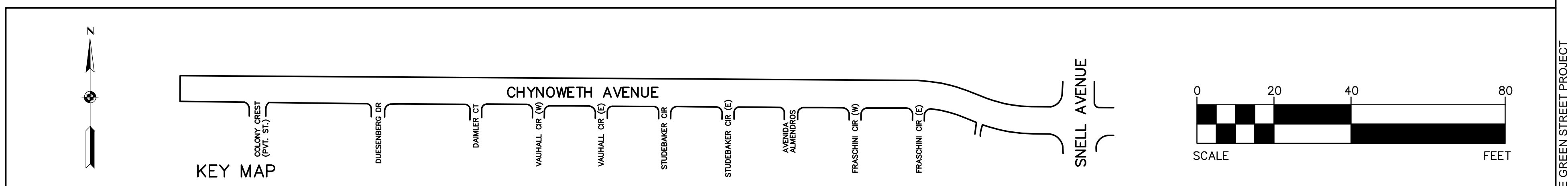


MATCH LINE STA 30+00 - SEE ABOVE

MATCH LINE STA 23+50 - SEE SHEET 26

MATCH LINE STA 36+50 - SEE SHEET 28

MATCH LINE STA 30+00 - SEE BELOW

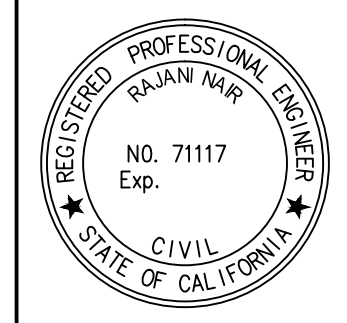


**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
ELECTRICAL PLAN  
BETWEEN VAUXHALL CIR (W) AND AVENIDA ALMENDROS**

NO.	REVISIONS	INITIALS	DATE
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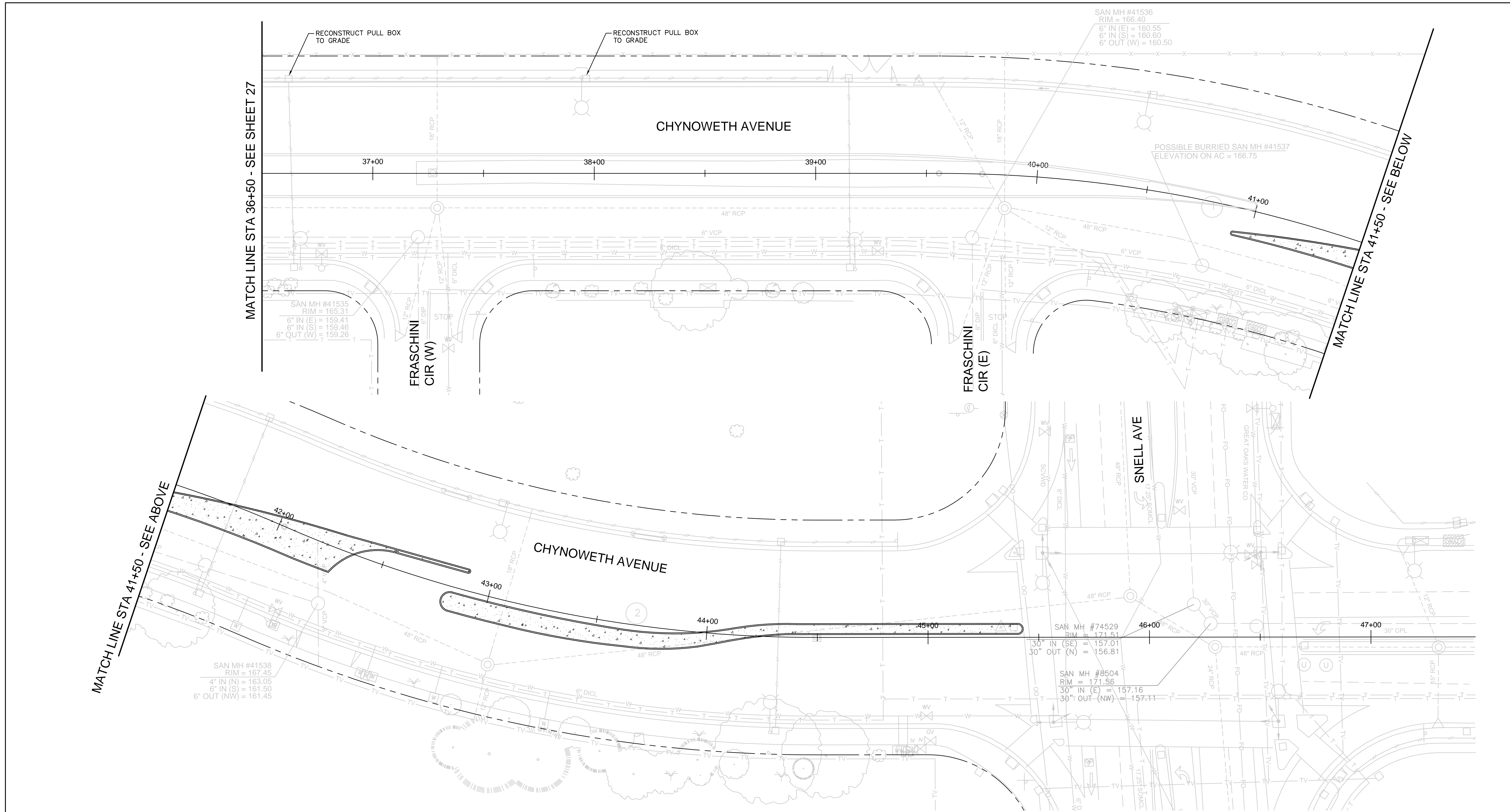
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- STORM \_\_\_\_\_
- MATERIALS LAB \_\_\_\_\_
- SURVEY \_\_\_\_\_
- LANDSCAPE \_\_\_\_\_
- ROADS & BRIDGES \_\_\_\_\_

- ELECTRICAL \_\_\_\_\_
- CONSTRUCTION \_\_\_\_\_
- TRANSPORTATION \_\_\_\_\_
- TRAFFIC OPERATION \_\_\_\_\_
- MAINTENANCE \_\_\_\_\_
- GEOMETRIC \_\_\_\_\_



<b>DEPARTMENT OF PUBLIC WORKS SAN JOSE, CALIFORNIA</b>	
DESIGNED BY: BC, NA, JY	BARRY NG DIRECTOR OF PUBLIC WORKS
CHECKED BY: BC, JY	
PROJ. MGR.: EY	
DATE: SEPTEMBER 12, 2016	
SCALE: 1" = 20'	
SHEET NO. 27 OF 41 SHEETS	PROJECT ID: 7756

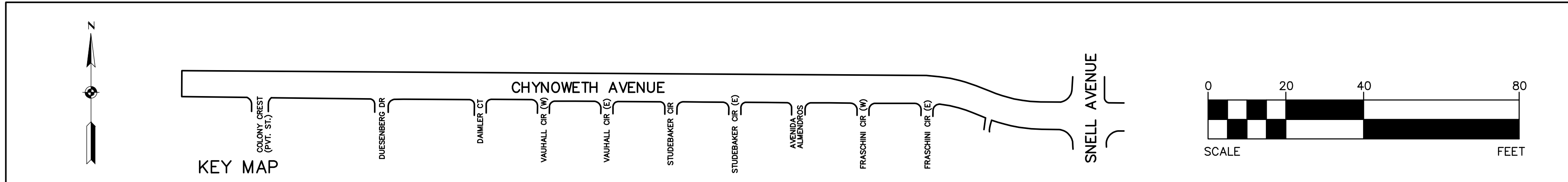
7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



MATCH LINE STA 41+50 - SEE ABOVE

MATCH LINE STA 36+50 - SEE SHEET 27

MATCH LINE STA 41+50 - SEE BELOW



**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT**  
**ELECTRICAL PLAN**  
**BETWEEN FRASCHINI CIR (W) AND SNELL AVE**

NO.	REVISIONS	INITIALS	DATE
6			
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- SANITARY \_\_\_\_\_
- STORM \_\_\_\_\_
- MATERIALS LAB \_\_\_\_\_
- SURVEY \_\_\_\_\_
- LANDSCAPE \_\_\_\_\_
- ROADS & BRIDGES \_\_\_\_\_

- ELECTRICAL \_\_\_\_\_
- CONSTRUCTION \_\_\_\_\_
- TRANSPORTATION \_\_\_\_\_
- TRAFFIC OPERATION \_\_\_\_\_
- MAINTENANCE \_\_\_\_\_
- GEOMETRIC \_\_\_\_\_



**DEPARTMENT OF PUBLIC WORKS**  
**SAN JOSE, CALIFORNIA**

DESIGNED BY: BC, NA, JY  
 CHECKED BY: BC, JY  
 PROJ. MGR.: EY  
 DATE: SEPTEMBER 12, 2016  
 SCALE: 1" = 20'  
 SHEET NO. 28 OF 41 SHEETS

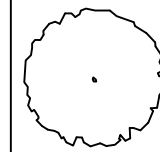
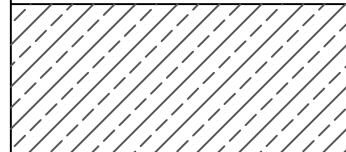

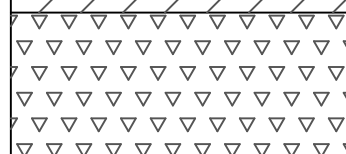
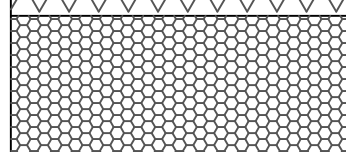
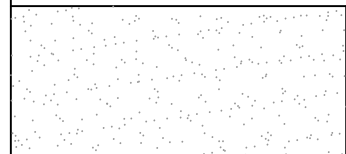
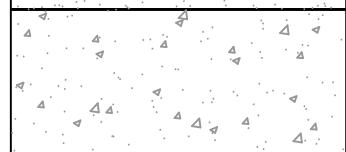
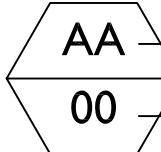
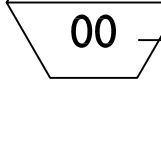
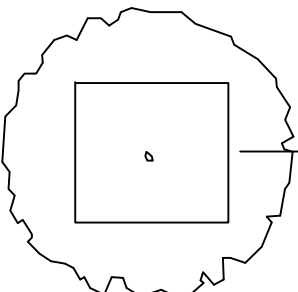
BARRY NG  
 DIRECTOR OF PUBLIC WORKS

PROJECT ID: 7756

## PLANTING NOTES

- ALL UNDERGROUND UTILITIES SHALL BE LOCATED BEFORE START OF WORK.
- ALL GRADES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLANTING OF ANY PLANT MATERIALS.
- CONTRACTOR SHALL LAYOUT TREES AND GROUND COVERS AS SHOWN ON THE PLANS. LAYOUT OF PLANT MATERIALS, WHILE STILL IN CONTAINERS, SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF ANY PLANTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY DAMAGE OR DESTRUCTION TO THE EXISTING PLANT MATERIALS AND TO RESTORE IT TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER.
- REFER TO SPECIFICATIONS FOR SOIL AMENDMENTS, FERTILIZER AND MORE PLANTING INFORMATION. REFER TO C.3 HANDBOOK FOR BIOCELL SPECIFICATIONS.
- UPON RECEIPT OF "NOTICE TO PROCEED", THE CONTRACTOR SHALL ORDER PLANT MATERIAL TO INSURE ADEQUATE QUANTITIES AND SIZES OF PLANT MATERIAL WILL BE AVAILABLE. COPY OF THE NURSERY INVOICE SHALL BE SUBMITTED TO THE PROJECT ENGINEER.
- ALL TREES SHALL BE TRUE TO NAME, AND ONE OF EACH BUNDLE OR LOT SHALL BE TAGGED WITH THE NAME AND SIZE OF THE PLANT. IN ACCORDANCE WITH THE STANDARD OF PRACTICE RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- IMPORTED TOPSOIL SHALL CONFORM TO THE CITY OF SAN JOSE STANDARD SPECIFICATIONS. A SAMPLE OF THE TOPSOIL, ALONG WITH A COMPLETE SOIL ANALYSIS REPORT BY A HORTICULTURAL CONSULTANT SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO DELIVERY TO THE SITE.
- BIO-RETENTION SOIL SHALL CONFORM TO REGIONAL WATER BOARD C.3 REQUIREMENTS ALONG WITH CITY OF SAN JOSE SPECIFICATIONS.
- CALIPER OF THE TREES SHALL BE MEASURED 6" ABOVE FINISHED GRADE.
- ALL BIO-RETENTION PLANTINGS SHALL BE PLANTED AT A MINIMUM OF 18 INCHES FROM CONCRETE CURB OR ASPHALT.

## PLANTING LEGEND

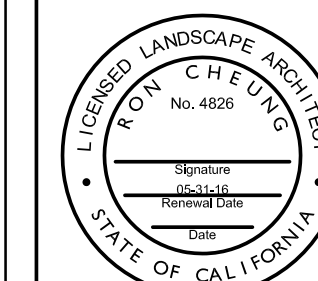
SYM	QTY	SIZE	BOTANICAL NAME / COMMON NAME	SPACING O.C.	WUCOLS CLASS.	MATURE WIDTH	REMARKS	
<b>TREES</b>								
	QS	36	15 GAL.	QUERCUS SUBER / CORK OAK	35' MIN. O.C.	L	30'-40'	ALL TREES STAKED
<b>BIO-RETENTION AREA</b>								
	304	1 GAL.	JUNCUS PATENS / CALIFORNIA GREY BUSH	24" O.C TRI. SPACING	L	1' - 2'	ALL PLANTINGS SHALL BE PLANTED A MINIMUM OF 18" CLEAR OF ANY CONCRETE CURBS OR ASPHALT.	
	645	PLUGS	FESTUCA RUBRA 'MOLATE' / CREEPING RED FESCUE	12" O.C. TRI. SPACING	L	1' - 2'		
	336	1 GAL.	CAREX TUMULICOLA / BERKELEY SEDGE	24" O.C. TRI. SPACING	L	1' - 2'		
	421	1 GAL.	ACHILLEA TOMENTOSA / COMMON YARROW	24" O.C. TRI. SPACING	L	1' - 2'		
	MULCH 4" THICK							
	CONCRETE							
	AA		PLANT NAME					
	00		QUANTITY					
	TREE EXCAVATION LIMITS (refer to specification section 20-14.5.0 for depth, length, and width)							

### 7756 - CHYNOWETH AVENUE GREEN STREET PROJECT PLANTING PLAN BETWEEN COLONY CREST AND DAIMLER CT

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	REVISIONS	INITIALS	DATE

SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_

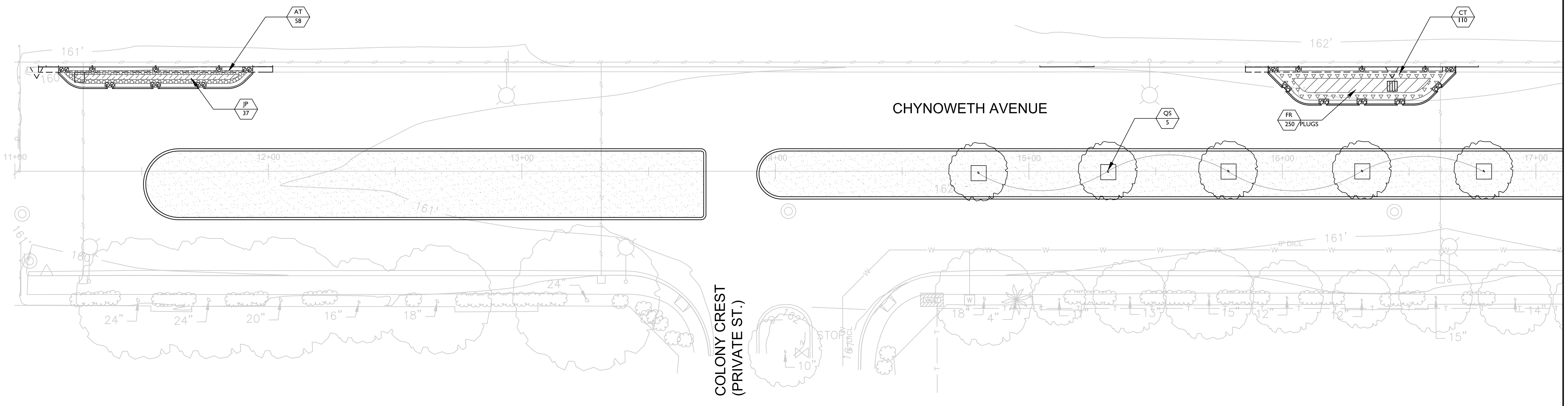
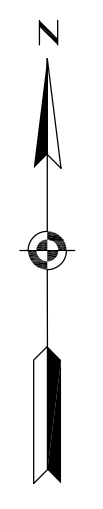


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SAN JOSE, CALIFORNIA

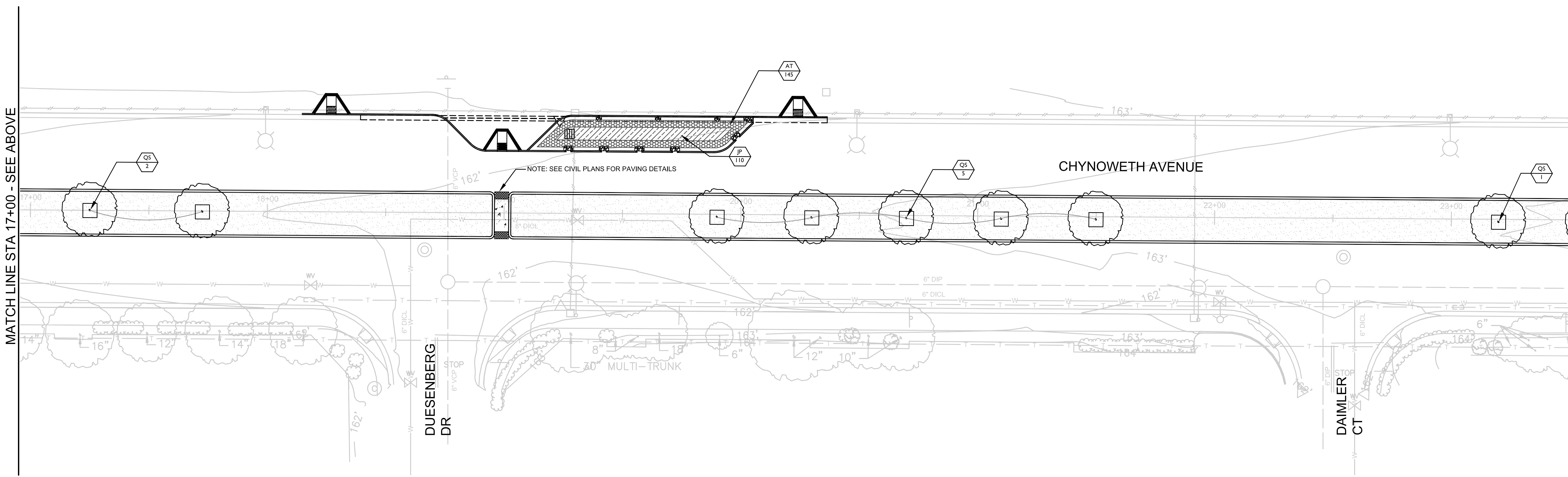
DESIGNED BY: JD  
CHECKED BY: RC  
PROJ. MGR.: EY  
DATE: xxx x, 2016  
SCALE: N.T.S.  
SHEET NO. 29 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID. 7756



MATCH LINE STA 17+00 - SEE BELOW



MATCH LINE STA 17+00 - SEE ABOVE

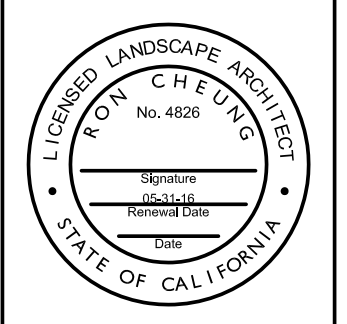
MATCH LINE STA 23+00 - SEE SHEET 31

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
PLANTING PLAN  
BETWEEN COLONY CREST AND DAIMLER CT**

NO.	REVISIONS	INITIALS	DATE
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SANITARY \_\_\_\_\_  
 STORM \_\_\_\_\_  
 MATERIALS LAB \_\_\_\_\_  
 SURVEY \_\_\_\_\_  
 LANDSCAPE \_\_\_\_\_  
 ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 TRANSPORTATION \_\_\_\_\_  
 TRAFFIC OPERATION \_\_\_\_\_  
 MAINTENANCE \_\_\_\_\_  
 GEOMETRIC \_\_\_\_\_



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SAN JOSE, CALIFORNIA**

DESIGNED BY: JD  
 CHECKED BY: RC  
 PROJ. MGR.: EY  
 DATE: xxx x, 2016  
 SCALE: 1" = 20'  
 SHEET NO. 30 OF 41 SHEETS

BARRY NG  
 DIRECTOR OF PUBLIC WORKS

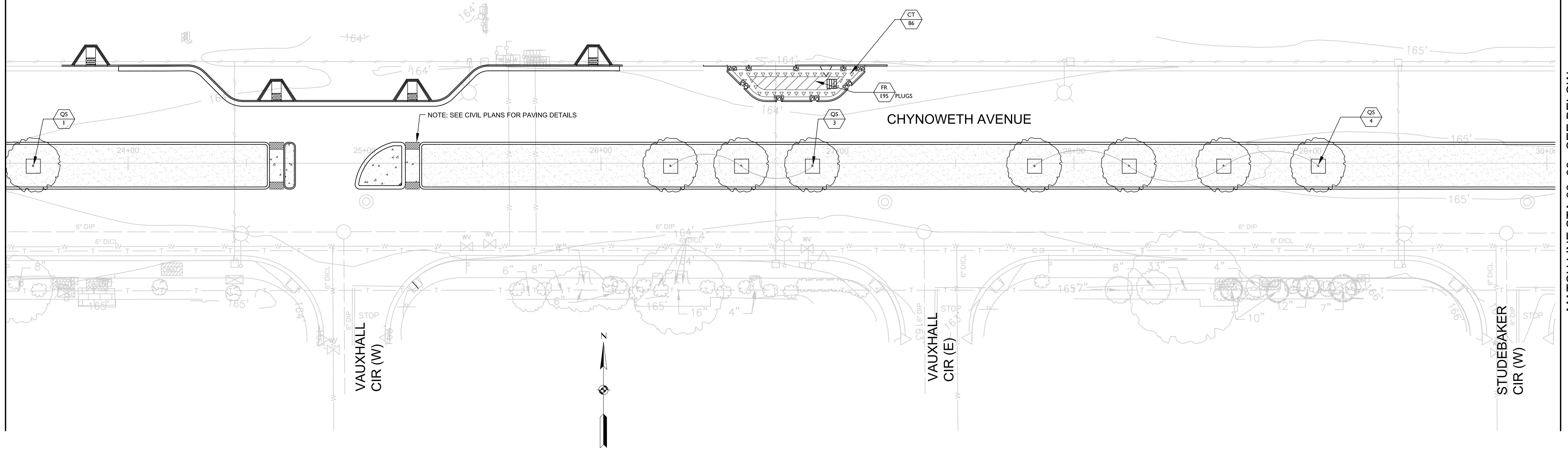
PROJECT ID. 7756

100% Submittal

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT

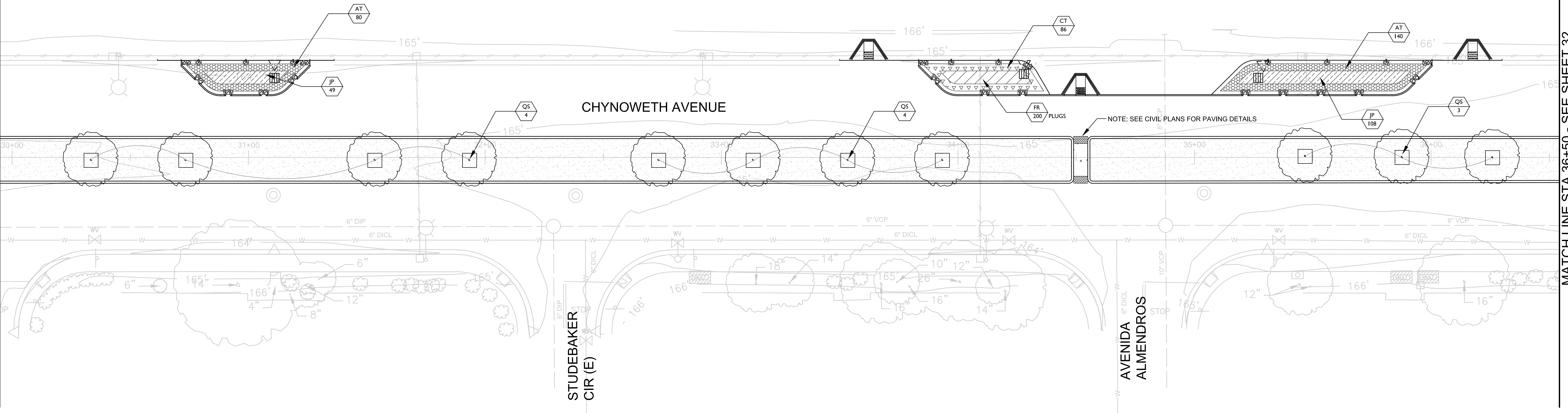
MATCH LINE STA 23+50 - SEE SHEET 30

MATCH LINE STA 30+00 - SEE BELOW



MATCH LINE STA 30+00 - SEE ABOVE

MATCH LINE STA 36+50 - SEE SHEET 32

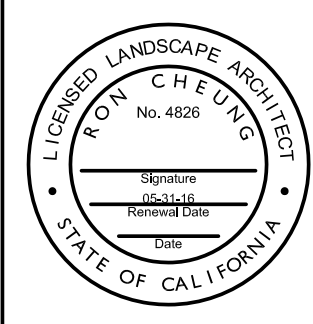


7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
 PLANTING PLAN  
 BETWEEN VAUXHALL CIR (W) AND AVENIDA ALMENDROS

NO.	REVISIONS	INITIALS	DATE
6			
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SANITARY \_\_\_\_\_  
 STORM \_\_\_\_\_  
 MATERIALS LAB \_\_\_\_\_  
 SURVEY \_\_\_\_\_  
 LANDSCAPE \_\_\_\_\_  
 ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 TRANSPORTATION \_\_\_\_\_  
 TRAFFIC OPERATION \_\_\_\_\_  
 MAINTENANCE \_\_\_\_\_  
 GEOMETRIC \_\_\_\_\_



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 SAN JOSE, CALIFORNIA

DESIGNED BY: JD  
 CHECKED BY: RC  
 PROJ. MGR.: EY  
 DATE: xxx x, 2016  
 SCALE: 1" = 20'  
 SHEET NO. 31 OF 41 SHEETS

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 DIRECTOR OF PUBLIC WORKS

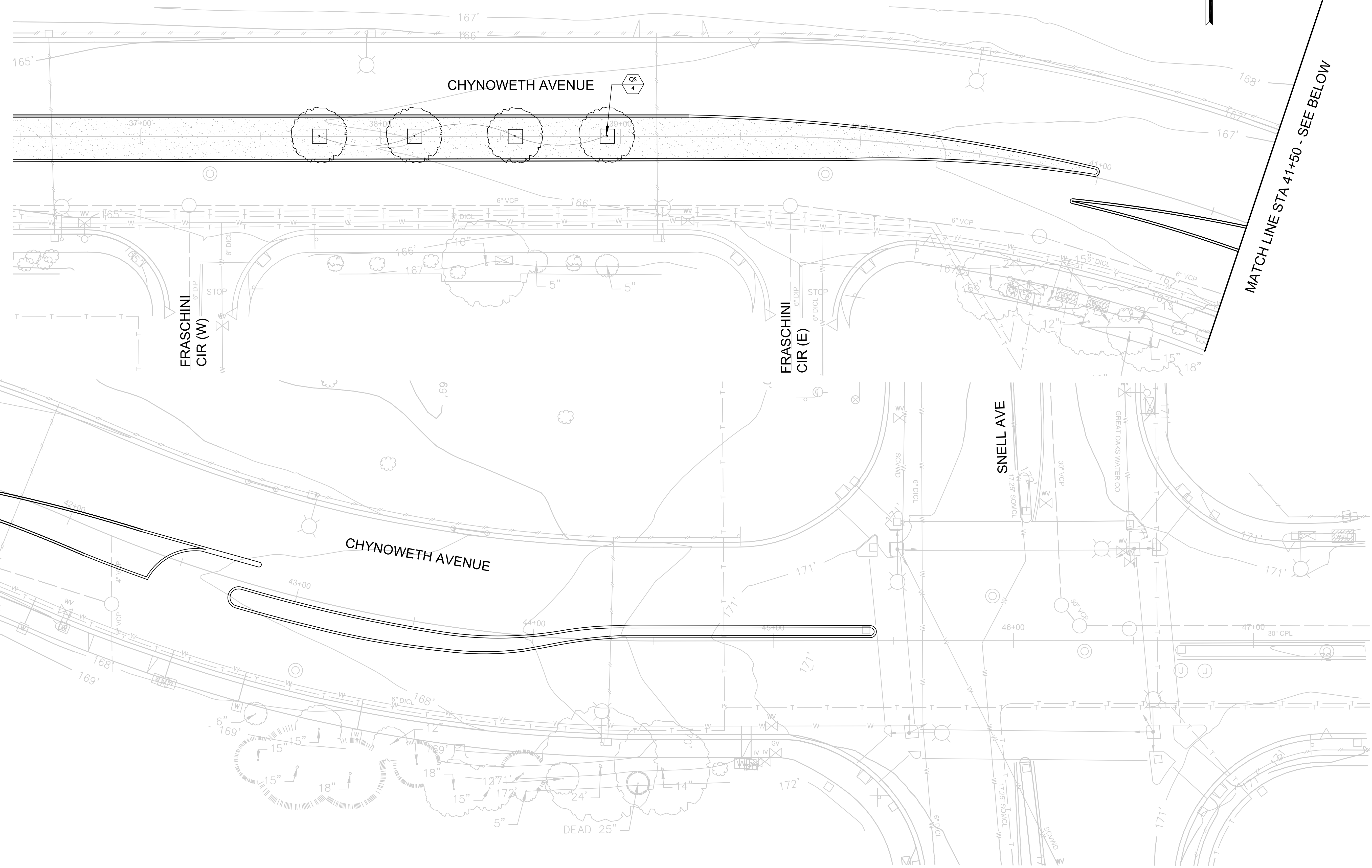
PROJECT ID. 7756



MATCH LINE STA 36+50 - SEE SHEET 31

MATCH LINE STA 41+50 - SEE BELOW

MATCH LINE STA 41+50 - SEE SHEET ABOVE

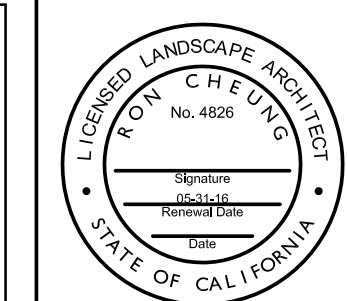


**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
PLANTING PLAN  
BETWEEN FRASCHINI CIR (W) AND SNELL AVE**

NO.	REVISIONS	INITIALS	DATE
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SANITARY \_\_\_\_\_  
 STORM \_\_\_\_\_  
 MATERIALS LAB \_\_\_\_\_  
 SURVEY \_\_\_\_\_  
 LANDSCAPE \_\_\_\_\_  
 ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 TRANSPORTATION \_\_\_\_\_  
 TRAFFIC OPERATION \_\_\_\_\_  
 MAINTENANCE \_\_\_\_\_  
 GEOMETRIC \_\_\_\_\_



**DEPARTMENT OF PUBLIC WORKS  
SAN JOSE, CALIFORNIA**

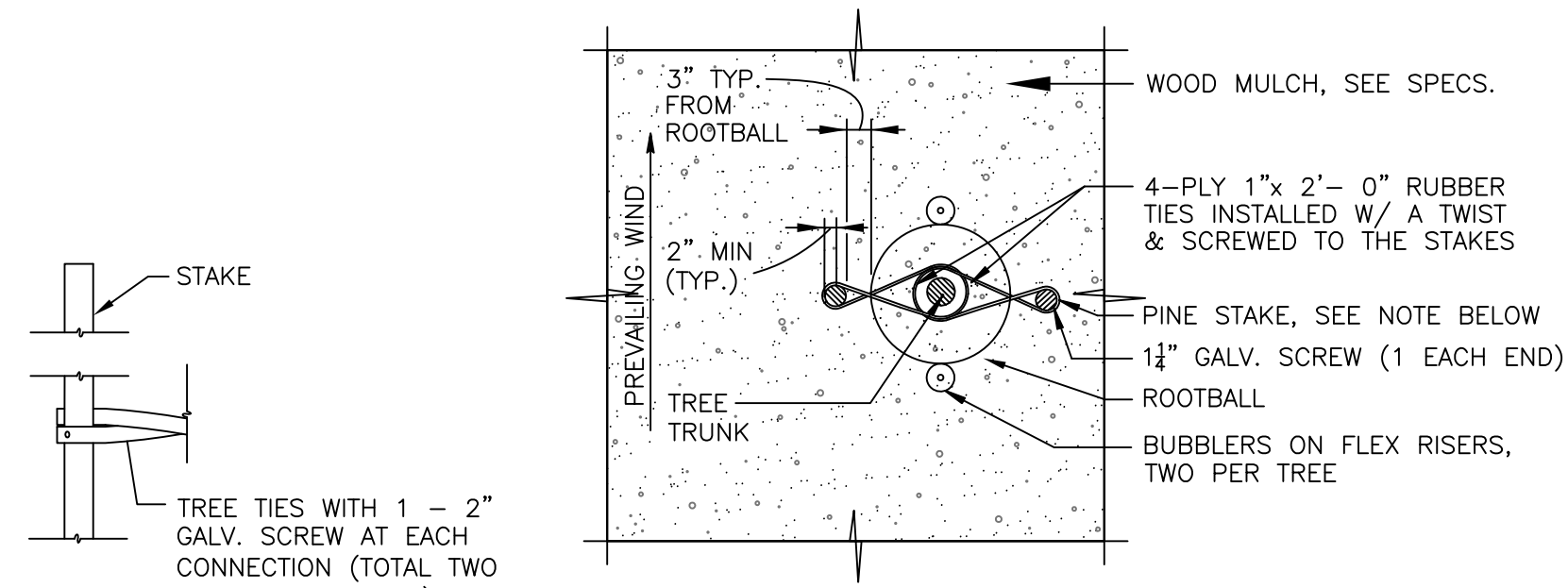
DESIGNED BY: JD  
 CHECKED BY: RC  
 PROJ. MGR.: EY  
 DATE: xxx x, 2016  
 SCALE: 1" = 20'  
 SHEET NO. 32 OF 41 SHEETS

BARRY NG  
 DIRECTOR OF PUBLIC WORKS

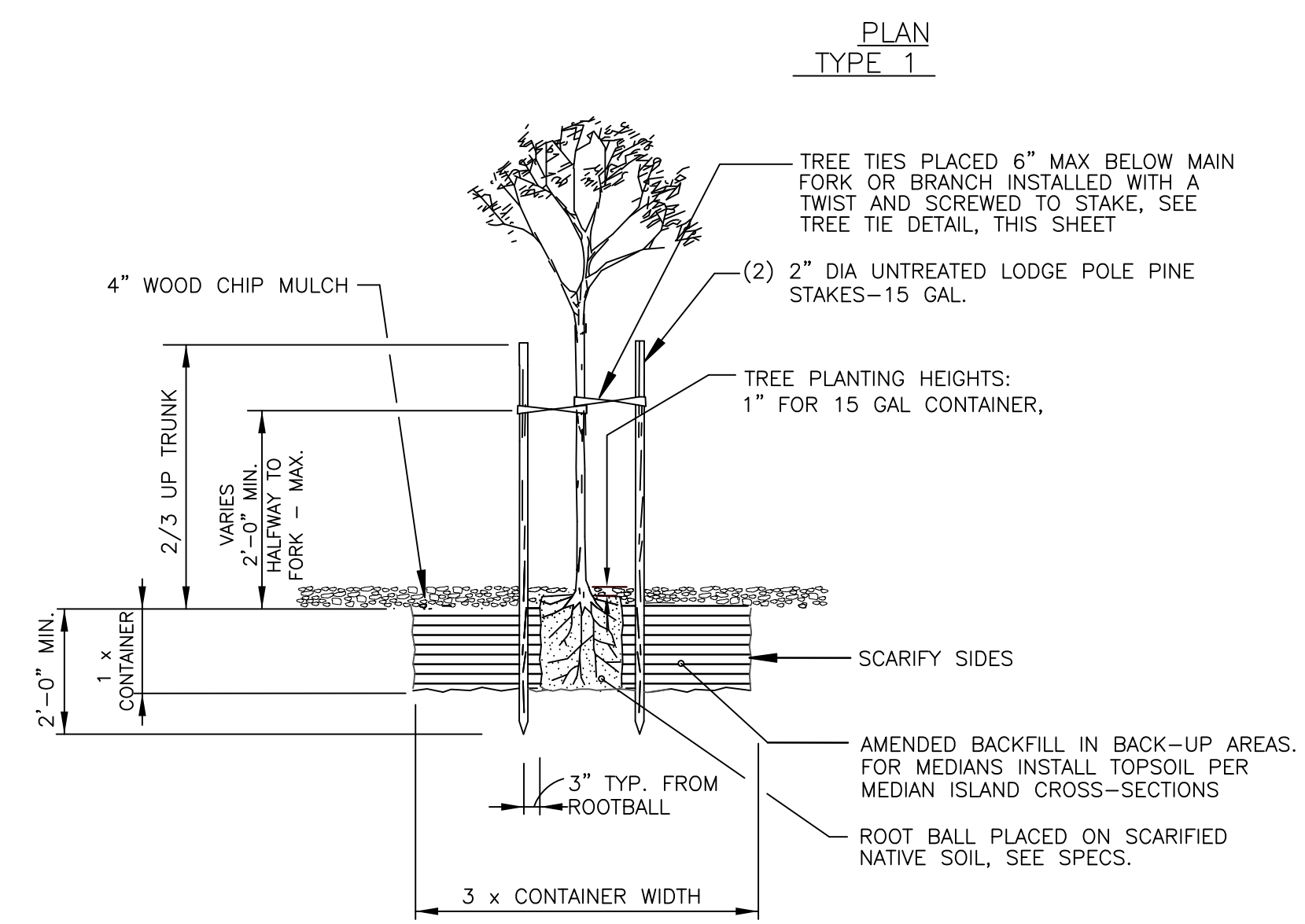
PROJECT ID. 7756

100% Submittal

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



DETAIL  
TREE TIES

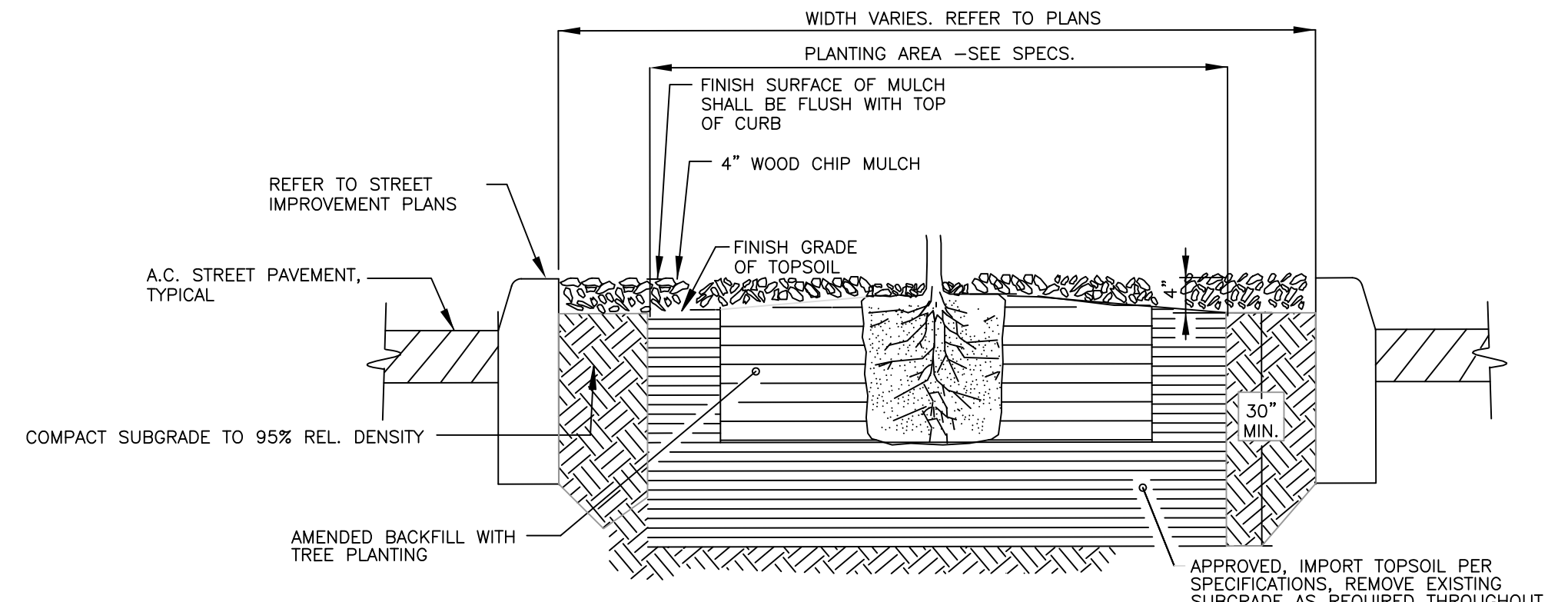


SECTION

A SECTION FOR MEDIANS AND BACK-UPS  
TYPE 1

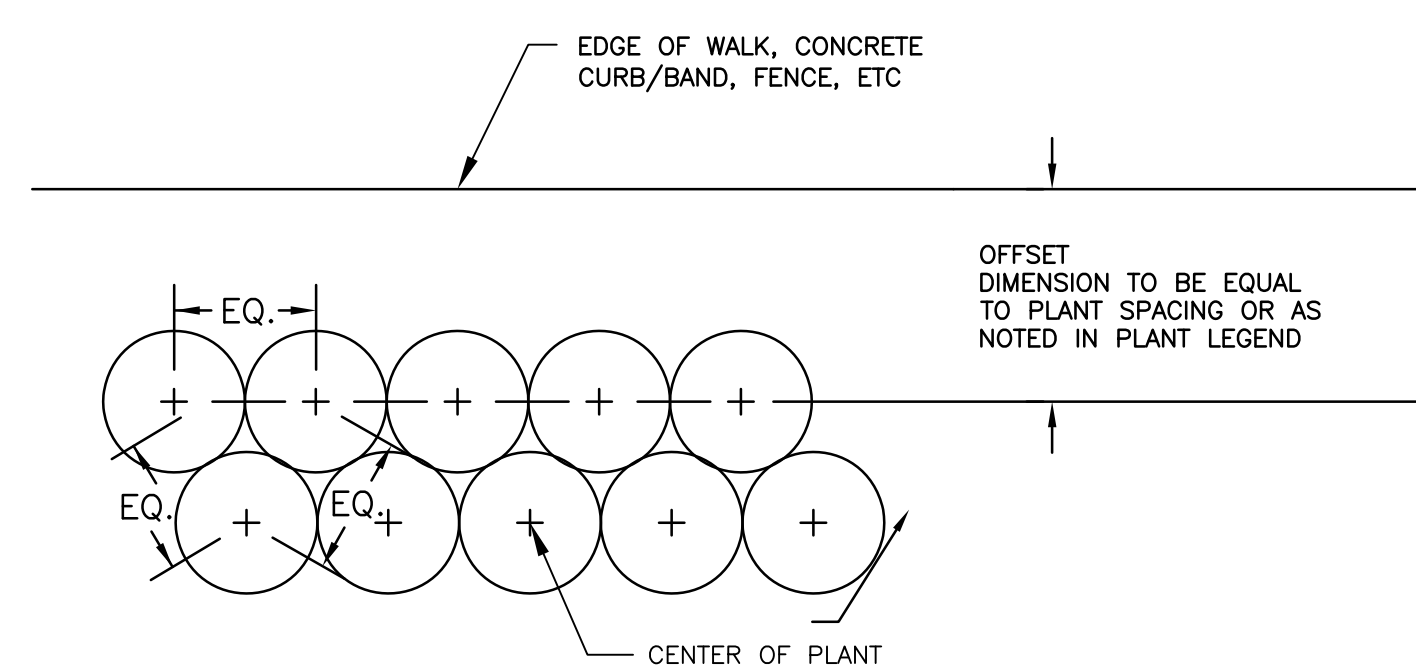
- NOTES:
1. REFER TO IRRIGATION DETAILS FOR BUBBLER DETAIL.
  2. TREE STAKES & TIES TO BE INSTALLED PERPENDICULAR TO DIRECTION OF PREVAILING WIND
  3. THE HEIGHT OF THE STAKES SHALL NOT INTERFERE WITH TREE BRANCHES IN ANY WAY. TRIM THE TOPS OF STAKES AS DIRECTED BY THE ENGINEER.
  4. ROOTBALL TO BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING, AND KEPT MOIST AS REQUIRED TO ENSURE PLANT HEALTH DURING CONSTRUCTION AND MAINTENANCE PERIODS.

4 TREE PLANTING & STAKING FOR MEDIANS AND BACK-UPS  
NOT TO SCALE



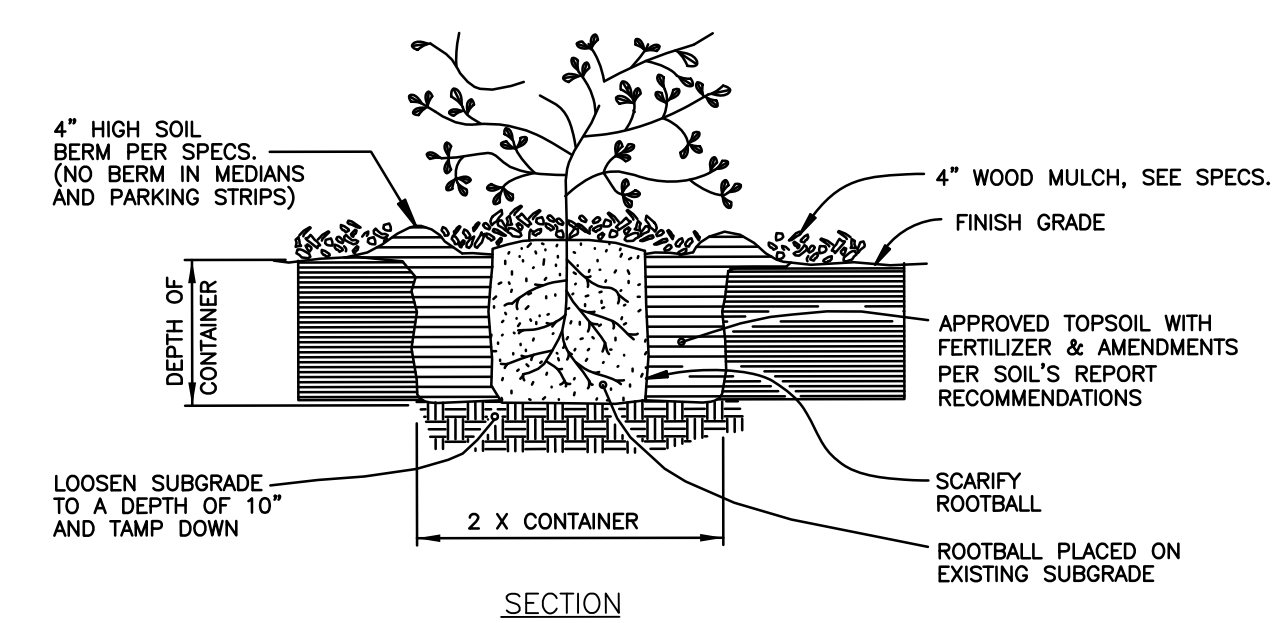
CROSS-SECTION

1 TYPICAL MEDIAN ISLAND CROSS-SECTION WITH B1 CURB  
NOT TO SCALE



- NOTES:
1. SEE PLANTING PLAN SHEETS FOR PLANT SPACING.
  2. PLANTING OF TREES AND SHRUBS IS IN A RANDOM PATTERN AND ARE NOT TO BE INSTALLED WITHOUT THE CITY ENGINEER'S AND DISTRICT ARBORIST'S APPROVAL. THE DISTANCE A SHRUB IS TO BE PLANTED FROM A FENCE IS EQUAL TO THE DIAMETER OF THE MATURE PLANT.

2 TRIANGULAR SPACING FOR SHRUBS  
NOT TO SCALE



SECTION

- NOTE:
1. ROOTBALL TO BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING, AND KEPT MOIST BUT NOT OVER-WATERED DURING CONSTRUCTION AND MAINTENANCE PERIODS.

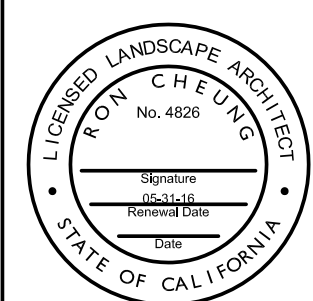
3 GROUND COVER AND SHRUB PLANTING WITH WOOD MULCH  
NOT TO SCALE

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
PLANTING - NOTES - DETAILS

6			
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	REVISIONS	INITIALS	DATE

SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_



DEPARTMENT OF PUBLIC WORKS  
SAN JOSE, CALIFORNIA

DESIGNED BY: JD  
CHECKED BY: RC  
PROJ. MGR.: EY  
DATE: xxx x, 2016  
SCALE: N.T.S.  
SHEET NO. 33 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID. 7756

## IRRIGATION NOTES

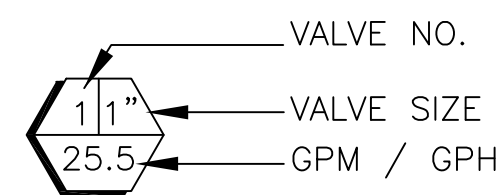
1. THE EXISTING PRESSURE AT THE WATER METER RANGES FROM 102 TO 114 PSI. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT A MINIMUM 30 PSI.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION, CITY OF SAN JOSE, 1992, AND THE PLANS AND DETAILS FOR THIS PROJECT.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND WATER PRESSURE, IF ANY DISCREPANCY EXISTS BETWEEN DESIGN AND ACTUAL FIELD CONDITIONS, NOTIFY THE PROJECT ENGINEER PRIOR TO ANY INSTALLATION.
4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER A MINIMUM OF 48 HOURS PRIOR TO START OF ANY IRRIGATION WORK.
5. CONTROL WIRES SHALL BE 14 GAUGE (RED). SEPARATE WIRES SHALL RUN FROM THE CONTROLLER TO EACH VALVE. COMMON GROUND WIRES SHALL BE 12 GAUGE (WHITE). ALL CONTROL WIRES LEADING FROM VALVES TO CONTROLLER MUST BE LOOPED UP A MINIMUM OF THREE (3) FEET INTO EVERY VALVE BOX INTERCEPTED ON THE WAY TO THE CONTROLLER.
6. SPLICES IN THE FIELD SHALL BE MADE EXCLUSIVELY WITH RAINBIRD "SNAP-TITE" CONNECTORS OR GLOBAL SPAN PRODUCTS, INC. "SPLICE KOTE" IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS OR APPROVED EQUAL.
7. ALL PLASTIC FITTING SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS.
8. TRENCHING DEPTHS FOR IRRIGATION PIPES ARE AS FOLLOWS: MAIN = 24", ALL LATERALS = 18". ALL DIMENSIONS ARE FROM THE TOP OF THE PIPE. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24".
9. ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN 4" CLASS 315 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE AND EFFECTIVE COVERAGE OF ALL PLANTED AREAS.
11. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR PORTION OF WORK WITH THE UNDERGROUND ELECTRICAL SUB-CONTRACTOR TO MINIMIZE CONFLICTS.
12. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN NON-TURF PLANTING AREAS WHERE POSSIBLE.

## IRRIGATION EQUIPMENT LEGEND

*SYM- EX. TO REMAIN	SYM- TO BE CONSTRUCTED	MANUF.	MODEL NO.	DESCRIPTION
☒	☒	WILKENS	975XL	2" REDUCED PRESSURE BACKFLOW PREVENTER WITH WILKENS YSBR SERIES STRAINER
⊕	⊕	RAINBIRD	PEB SERIES	REMOTE CONTROL VALVE, SIZE PER PLAN
⊗	⊗	SUPERIOR	3100	MASTER VALVE, (OPEN)
⊞	⊞	KING BROS.	WT-2000-T	BALL VALVE, SIZE PER PLAN
⊞	⊞	RAINMASTER	RME 'EAGLE'	IRRIGATION CONTROLLER RAINMASTER, 'EAGLE' CA6-RM3,
⊞	⊞	CALSENSE	FM SERIES	CALSENSE FLOW SENSOR, REFER TO CONTROLLER
☒	◆	RAINBIRD	44LRC	1" QUICK COUPLER VALVE WITH YELLOW LOCKING RUBBER COVER FOR POTABLE WATER
☒	☒	NIBCO	T113	GATE VALVE, SIZE PER LINE
=====	-----	PVC	CLASS 315	MAINLINE, 2" Ø AND LARGER
-----	-----	PVC	SCH. 40	LATERAL LINES, SIZE AS NOTED ON PLAN, 1" MIN.
=====	-----	PVC	CLASS 315	SLEEVING, 4" Ø AND LARGER
P.O.C.	P.O.C.			POINT OF CONNECTION TO WATER SUPPLY
☒	☒			NEW WATER METER, PAID FOR BY CONTRACTOR, 2" SIZE

SYM- TO BE CONST.	MANUF.	MODEL NO.	DESCRIPTION	GPM	RADIUS	PSI
•	RAINBIRD	1401	FLOOD BUBBLERS ON FLEX RISERS AT TREE PLANTING, FULL CIRCLE, TRICKLE PATTERN, 2 PER TREE		.25	
	RAINBIRD	XFD-06-12	SUB-SURFACE : RAINBIRD XFS-B-09-12 DRIPLINE, DRIPPER INTERVAL 12" O.C. ROW SPACING 12" O.C. DRIPPER FLOW .26 GPH. SEE SPECS. INSTALL AUTO-FLUSHING VALVES, AIR RELIEF VALVES AND PRESSURE GAUGES PER MANUFACTURE RECOMMENDATIONS. MIN 2"-6" MAX DEPTH.			



PIPE SIZING CHART - SCH. 40	
LATERALS	
ZONE/PARTIAL ZONE FLOW	PIPE SIZES
0-13 GPM	PVC 1"
13.1-22 GPM	PVC 1-1/4"
22.1-30 GPM	PVC 1-1/2"
30.1-50 GPM	PVC 2"
50.1-75 GPM	PVC 2-1/2"

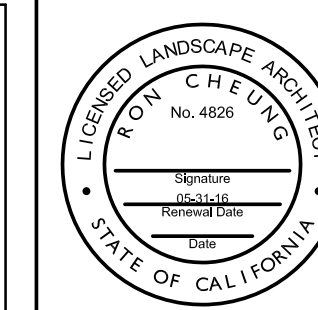
PIPE SIZING CHART - SCH. 40	
SUB SURFACE SUPPLY/EXHAUST HEADER: POINT SOURCE DRIP SUPPLY	
ZONE/PARTIAL ZONE FLOW	PIPE SIZES
0-22 GPM	PVC 1-1/4"
22.1-30 GPM	PVC 1-1/2"
30.1-50 GPM	PVC 2"
50.1-75 GPM	PVC 2-1/2"

**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT**  
**IRRIGATION PLAN**  
**BETWEEN COLONY CREST AND DAIMLER CT**

REVISIONS	INITIALS	DATE
6		
5		
4		
3		
2		
1		

SANITARY \_\_\_\_\_  
 STORM \_\_\_\_\_  
 MATERIALS LAB \_\_\_\_\_  
 SURVEY \_\_\_\_\_  
 LANDSCAPE \_\_\_\_\_  
 ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 TRANSPORTATION \_\_\_\_\_  
 TRAFFIC OPERATION \_\_\_\_\_  
 MAINTENANCE \_\_\_\_\_  
 GEOMETRIC \_\_\_\_\_

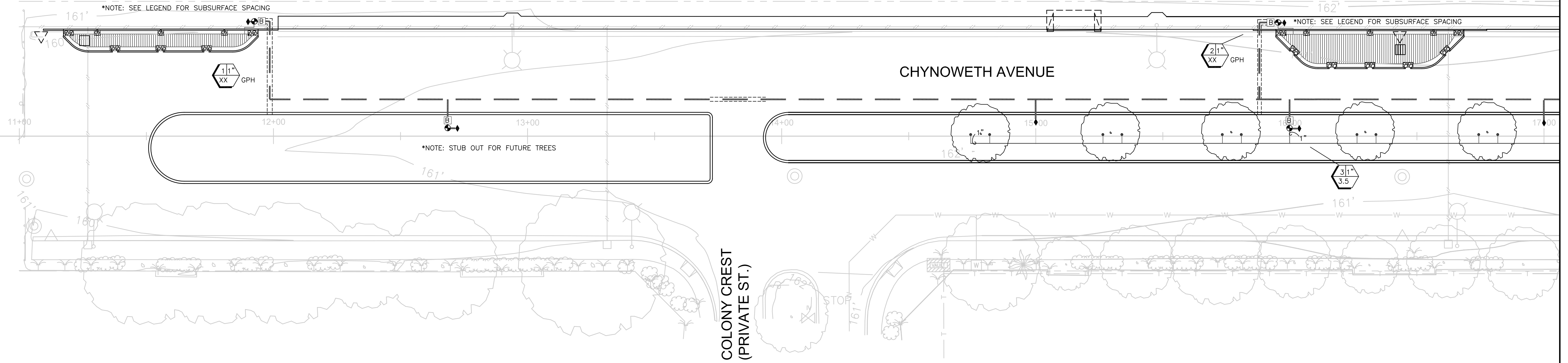


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**SAN JOSE, CALIFORNIA**

DESIGNED BY: JD  
 CHECKED BY: RC  
 PROJ. MGR.: EY  
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 SCALE: N.T.S.  
 SHEET NO. 34 OF 41 SHEETS

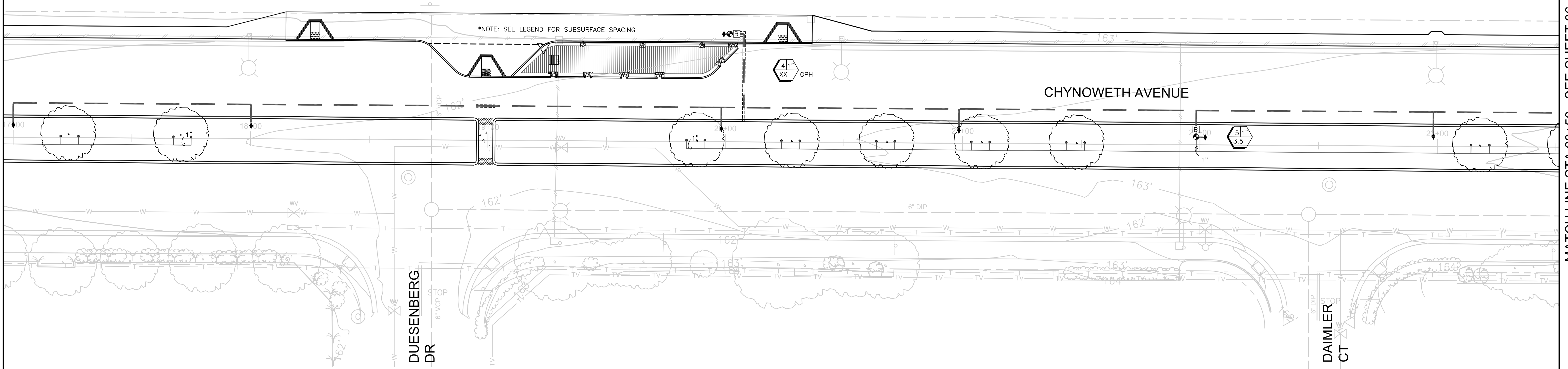
BARRY NG  
 DIRECTOR OF PUBLIC WORKS  
 PROJECT ID. 7756





MATCH LINE STA 17+00 - SEE BELOW

MATCH LINE STA 17+00 - SEE ABOVE



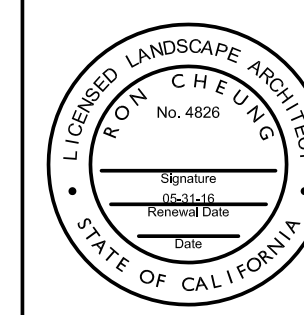
MATCH LINE STA 23+50 - SEE SHEET 36

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
IRRIGATION PLAN  
BETWEEN COLONY CREST AND DAIMLER CT

NO.	REVISIONS	INITIALS	DATE
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1			

SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_



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SAN JOSE, CALIFORNIA

DESIGNED BY: JD  
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PROJ. MGR.: EY  
DATE: xxx x, 2016  
SCALE: 1" = 20'  
SHEET NO. 35 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

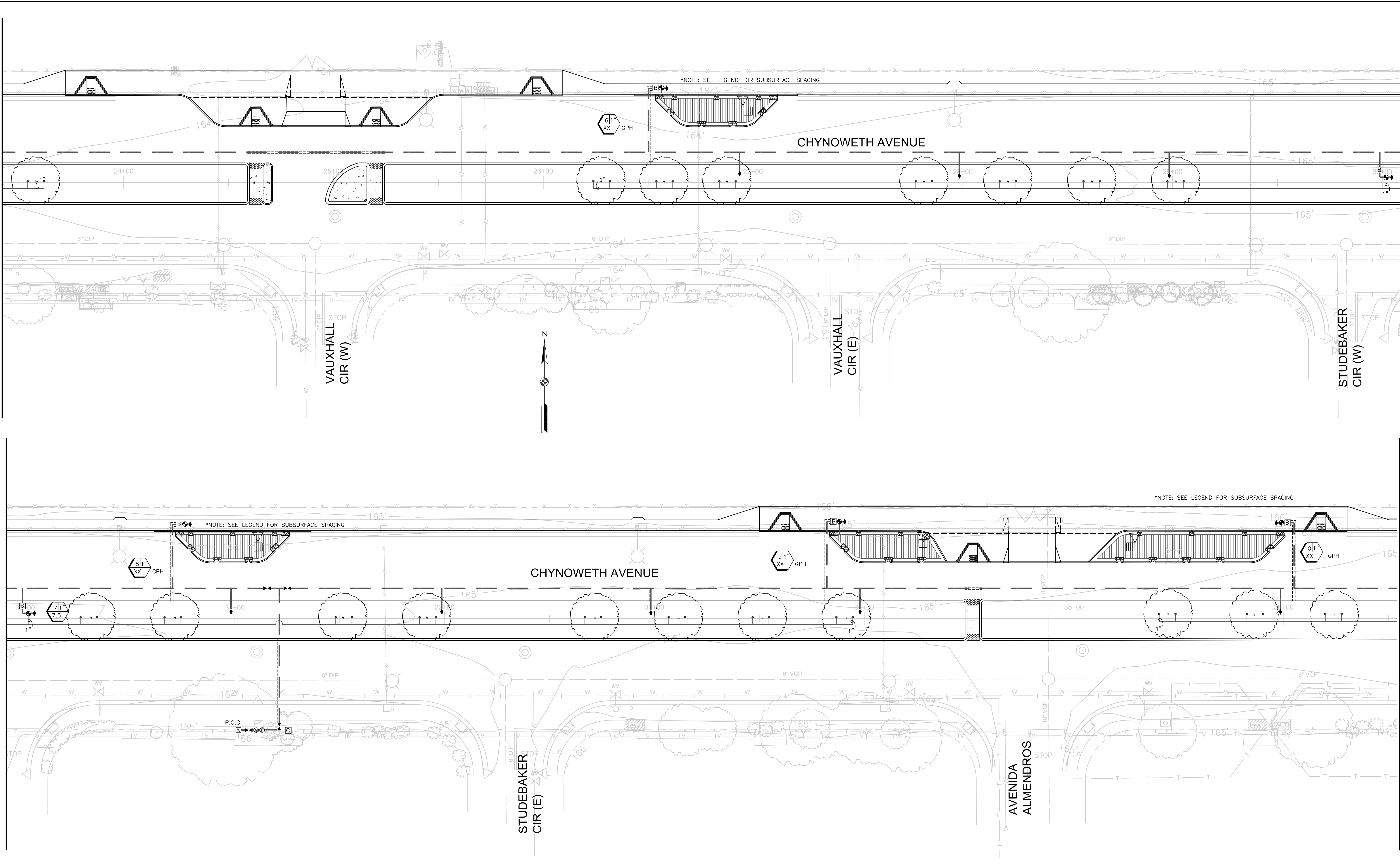
PROJECT ID. 7756

MATCH LINE STA 23+50 - SEE SHEET 35

MATCH LINE STA 30+00 - SEE BELOW

MATCH LINE STA 30+00 - SEE ABOVE

MATCH LINE STA 36+50 - SEE SHEET 37

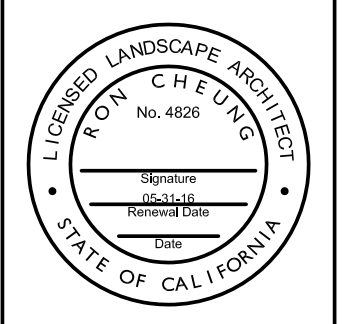


**7756 - CHYNOWETH AVENUE GREEN STREET PROJECT**  
**IRRIGATION PLAN**  
**BETWEEN VAUXHALL CIR (W) AND AVENIDA ALMENDROS**

NO.	REVISIONS	INITIALS	DATE
6			
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- SANITARY \_\_\_\_\_
- STORM \_\_\_\_\_
- MATERIALS LAB \_\_\_\_\_
- SURVEY \_\_\_\_\_
- LANDSCAPE \_\_\_\_\_
- ROADS & BRIDGES \_\_\_\_\_

- ELECTRICAL \_\_\_\_\_
- CONSTRUCTION \_\_\_\_\_
- TRANSPORTATION \_\_\_\_\_
- TRAFFIC OPERATION \_\_\_\_\_
- MAINTENANCE \_\_\_\_\_
- GEOMETRIC \_\_\_\_\_



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 PROJ. MGR.: EY  
 DATE: xxx x, 2016  
 SCALE: 1" = 20'  
 SHEET NO. 36 OF 41 SHEETS

BARRY NG  
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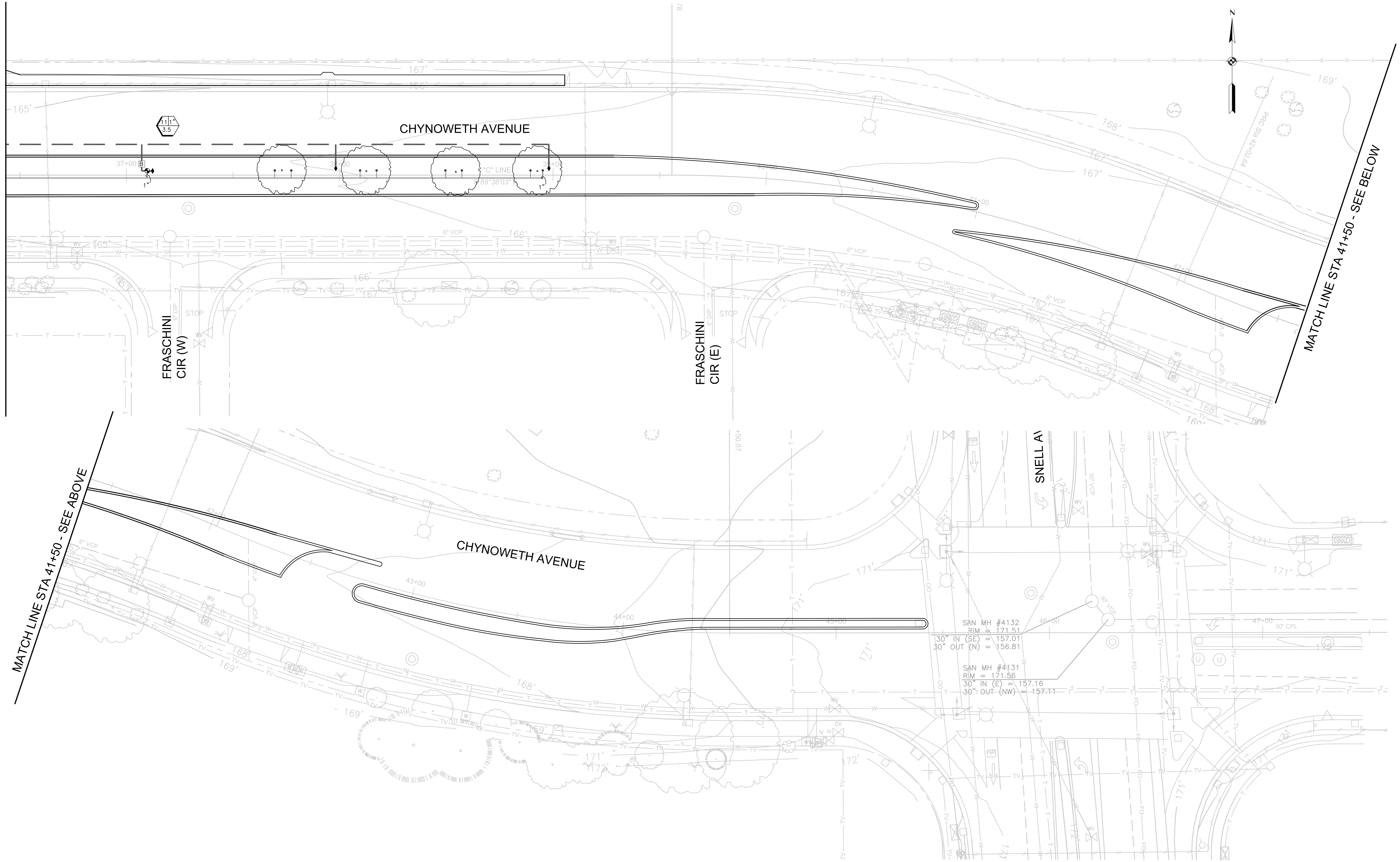
PROJECT ID. 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT

MATCH LINE STA 36+50 - SEE SHEET 36

MATCH LINE STA 41+50 - SEE ABOVE

MATCH LINE STA 41+50 - SEE BELOW

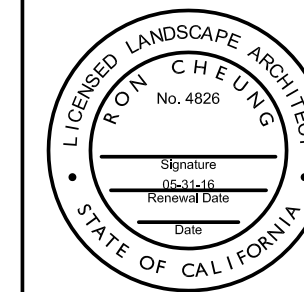


7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
IRRIGATION PLAN  
BETWEEN FRASCHINI CIR (W) AND SNELL AVE

NO.	REVISIONS	INITIALS	DATE
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SANITARY \_\_\_\_\_  
STORM \_\_\_\_\_  
MATERIALS LAB \_\_\_\_\_  
SURVEY \_\_\_\_\_  
LANDSCAPE \_\_\_\_\_  
ROADS & BRIDGES \_\_\_\_\_

ELECTRICAL \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
TRANSPORTATION \_\_\_\_\_  
TRAFFIC OPERATION \_\_\_\_\_  
MAINTENANCE \_\_\_\_\_  
GEOMETRIC \_\_\_\_\_



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SAN JOSE, CALIFORNIA

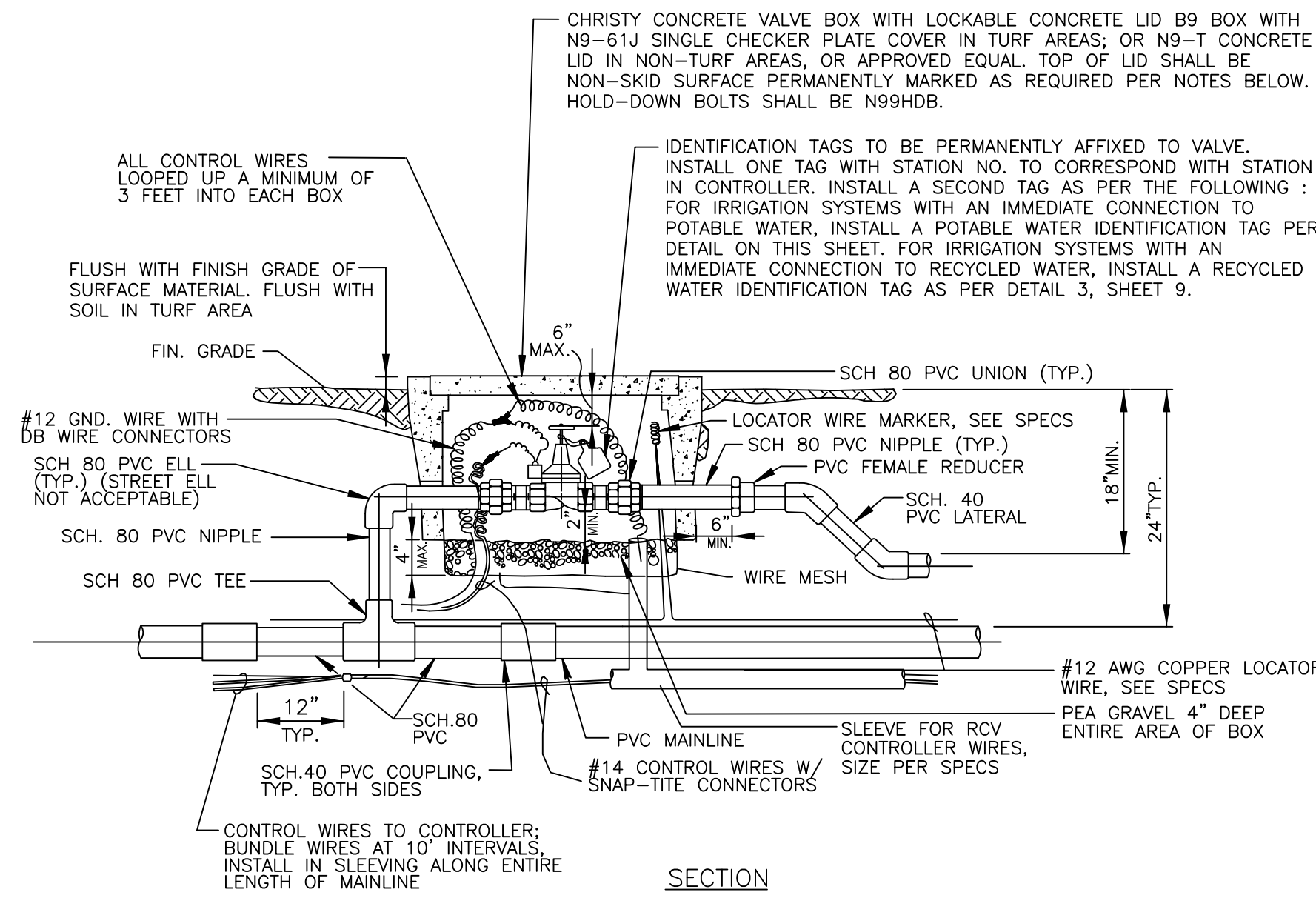
DESIGNED BY: JD  
CHECKED BY: RC  
PROJ. MGR.: EY  
DATE: xxx x, 2016  
SCALE: 1" = 20'  
SHEET NO. 37 OF 41 SHEETS

BARRY NG  
DIRECTOR OF PUBLIC WORKS

PROJECT ID. 7756

100% Submittal

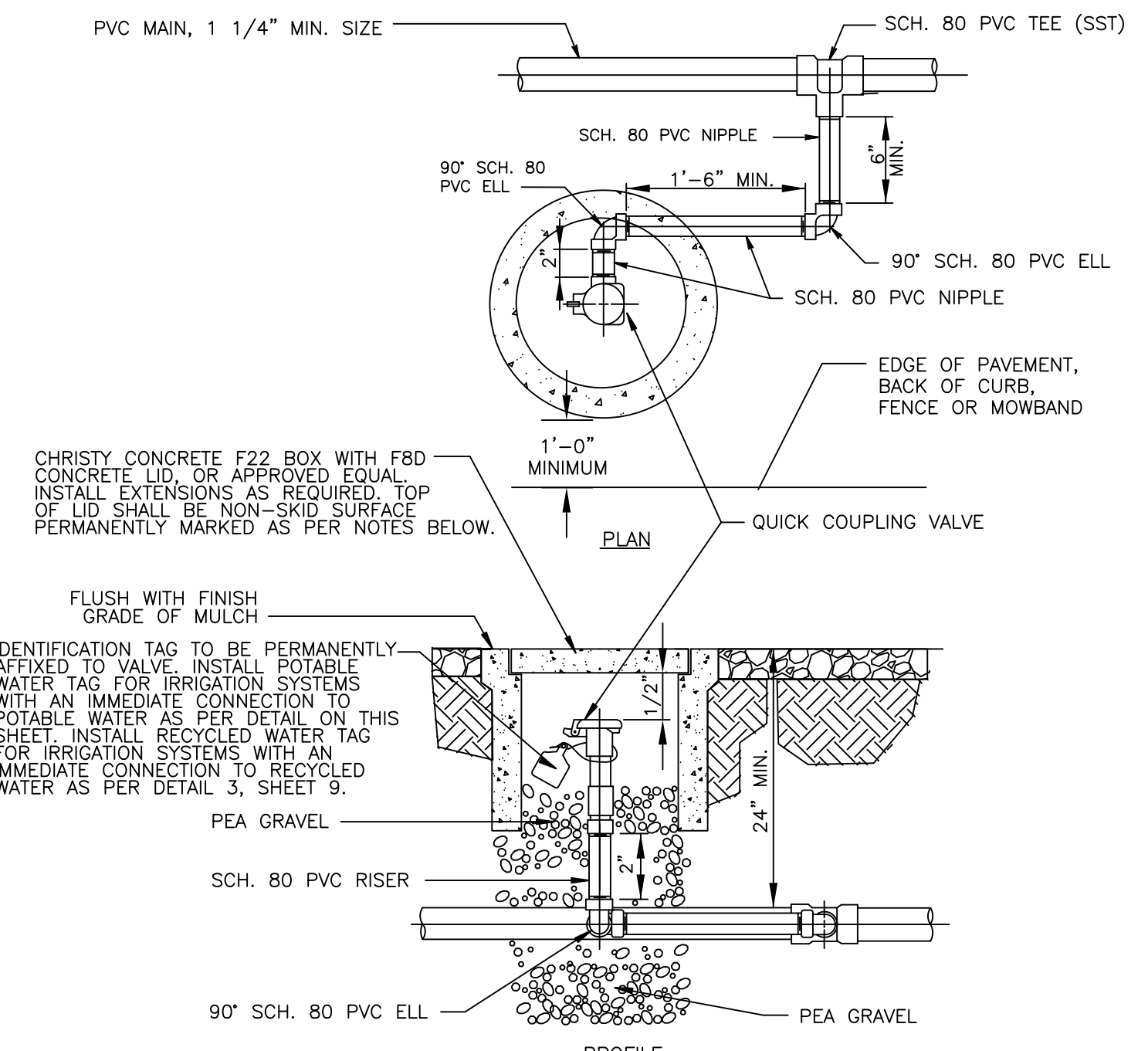
7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



**GENERAL NOTES:** 1. REFER TO THE SPECIFICATIONS FOR PIPE CONNECTIONS.  
2. STREET ELLS SHALL NOT BE ACCEPTABLE.

**LID IDENTIFICATION NOTES:**  
1. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO POTABLE WATER, TOP OF LID TO BE PERMANENTLY MARKED AS 'RCV' AND 'STATION NO. \_\_\_' AS PER NOTE #3.  
2. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO RECYCLED WATER, TOP OF LID TO BE PERMANENTLY MARKED AS 'RCV', 'STATION NO. \_\_\_' AND 'RECYCLED WATER' AS PER NOTE #3.  
3. CONCRETE LIDS SHALL HAVE MARKINGS MOLDED-IN AT THE FACTORY. STEEL CHECKER PLATE LIDS SHALL HAVE EITHER BEAD-WELDED OR STAMPED MARKINGS AT THE FACTORY.

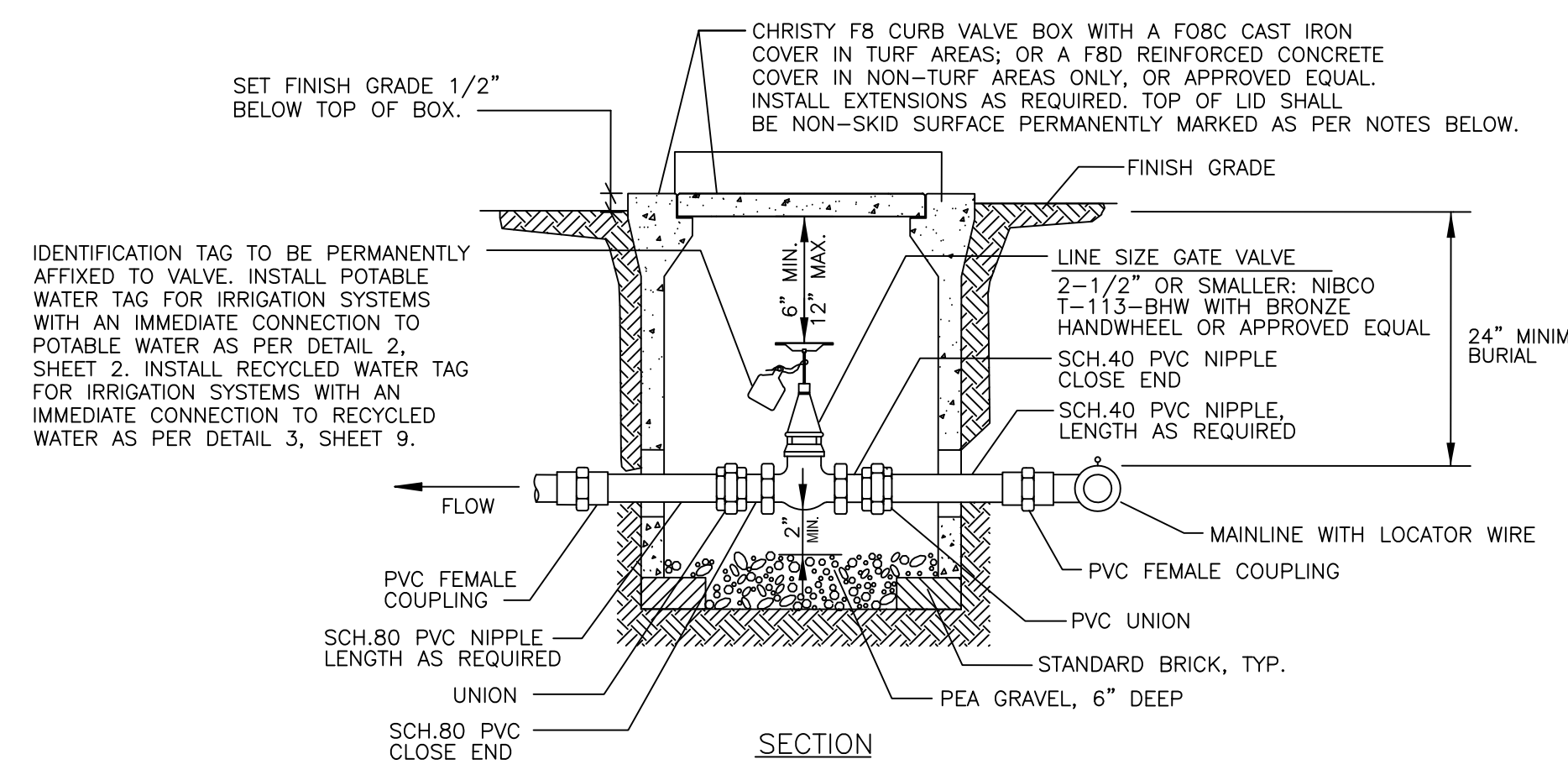
7 TYPICAL REMOTE CONTROL VALVE DETAIL  
NOT TO SCALE



**GENERAL NOTES:** 1. REFER TO THE SPECIFICATIONS FOR PIPE CONNECTIONS.  
2. STREET ELLS SHALL NOT BE ACCEPTABLE.

**LID IDENTIFICATION NOTES:**  
1. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO POTABLE WATER, TOP OF LID TO BE PERMANENTLY MARKED AS 'QCV' AS PER NOTE #3.  
2. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO RECYCLED WATER, TOP OF LID TO BE PERMANENTLY MARKED AS 'QCV' AND 'RECYCLED WATER' AS PER NOTE #3.  
3. CONCRETE LIDS SHALL HAVE MARKINGS MOLDED-IN AT THE FACTORY.

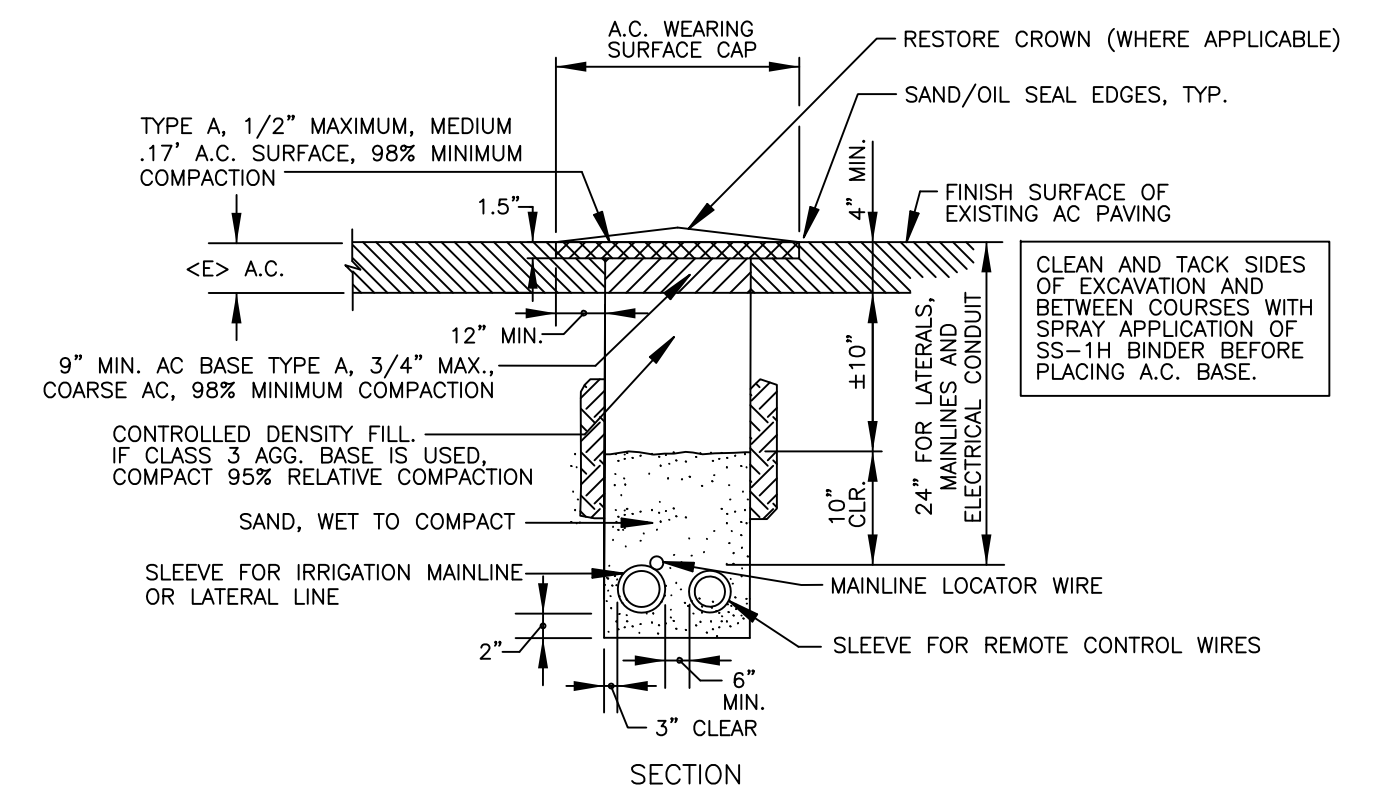
8 QUICK COUPLING VALVE DETAIL  
NOT TO SCALE



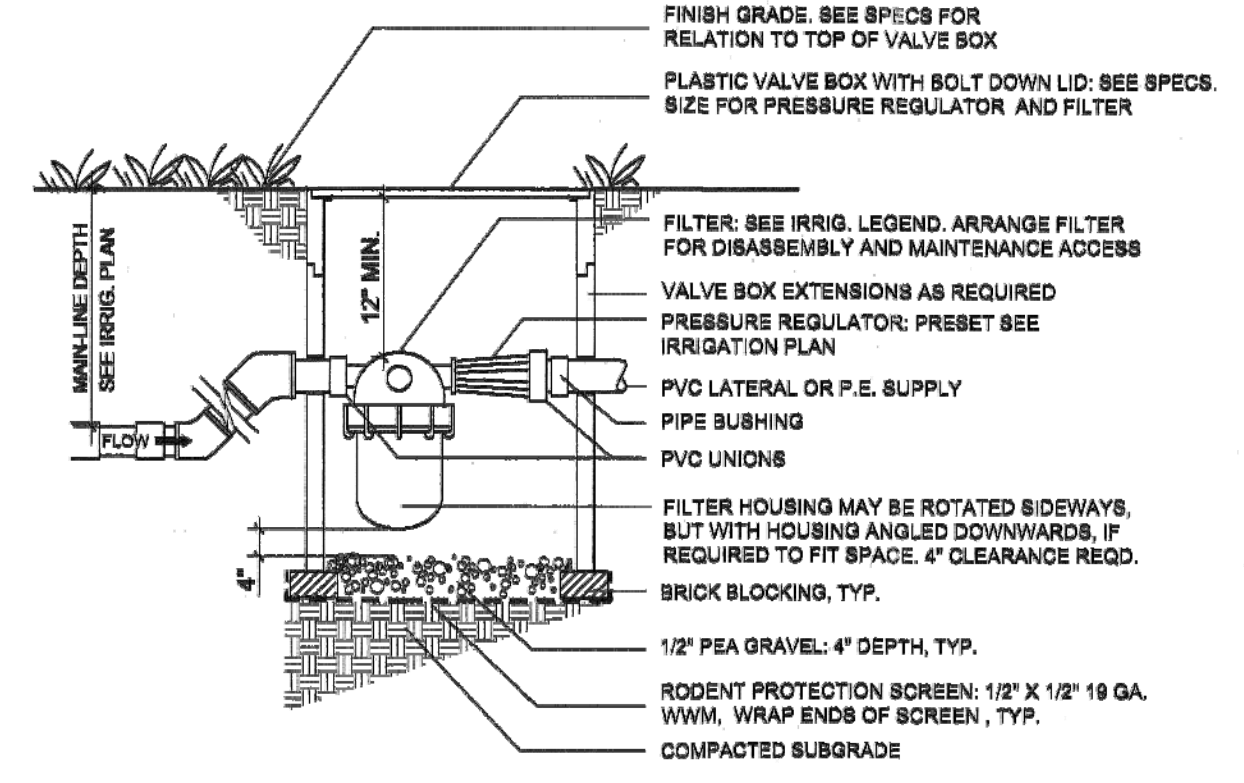
**GENERAL NOTES:** 1. REFER TO THE SPECIFICATIONS FOR PIPE CONNECTIONS.  
2. STREET ELLS SHALL NOT BE ACCEPTABLE.

**LID IDENTIFICATION NOTES:**  
1. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO POTABLE WATER, TOP OF LID TO BE PERMANENTLY MARKED AS 'GV' AS PER NOTE #3.  
2. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO RECYCLED WATER, TOP OF LID TO BE PERMANENTLY MARKED AS 'GV' AND 'RECYCLED WATER' AS PER NOTE #3.  
3. CONCRETE LIDS SHALL HAVE MARKINGS MOLDED-IN AT THE FACTORY. STEEL CHECKER PLATE LIDS SHALL HAVE EITHER BEAD-WELDED OR STAMPED MARKINGS AT THE FACTORY.

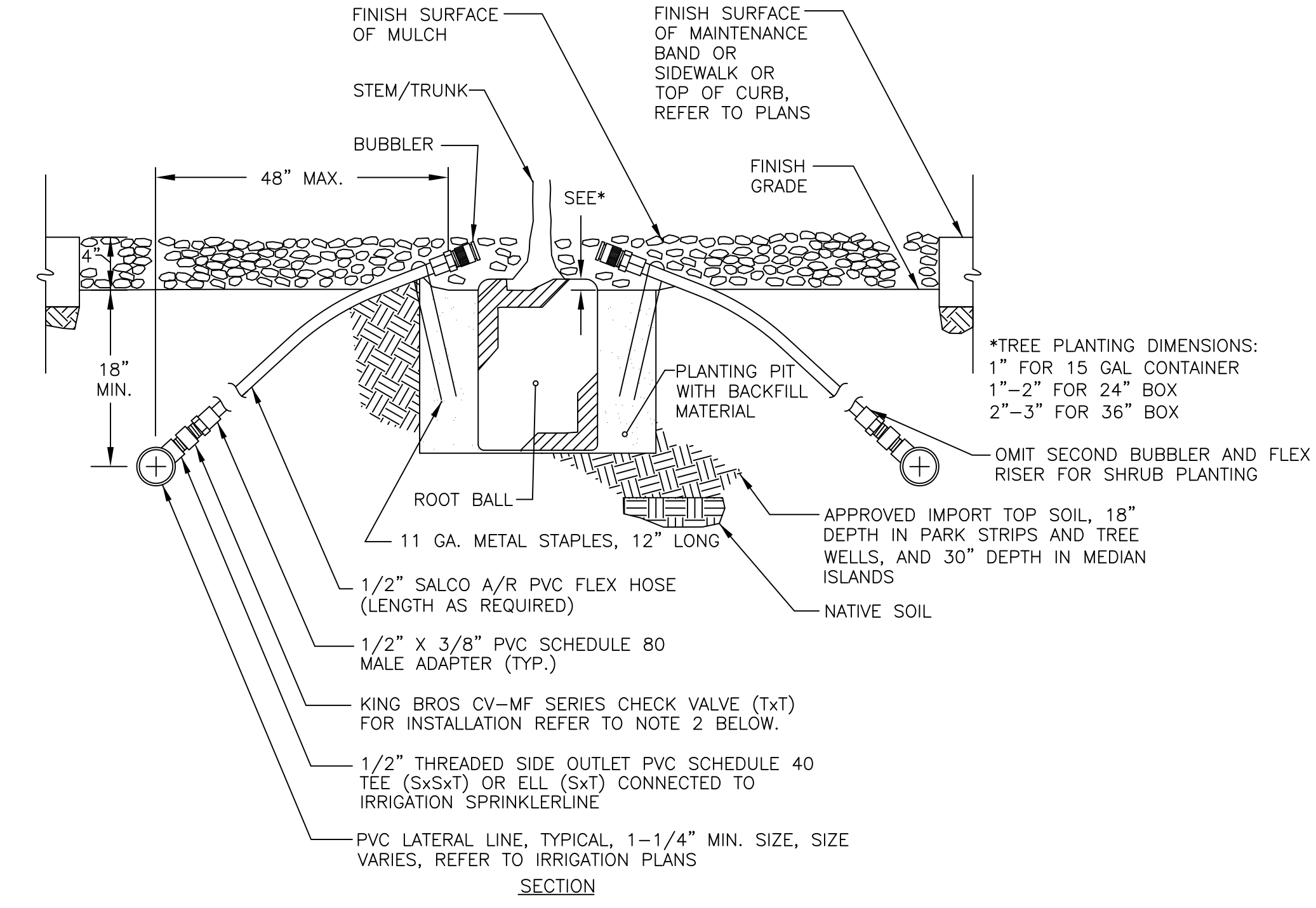
6 GATE VALVE (FOR 1" TO 2-1/2" SIZE MAINLINES)  
NOT TO SCALE



5 TRENCH RESTORATION DETAIL FOR INSTALLING IRRIGATION SLEEVES UNDER EX. A.C. STREET PAVING  
NOT TO SCALE

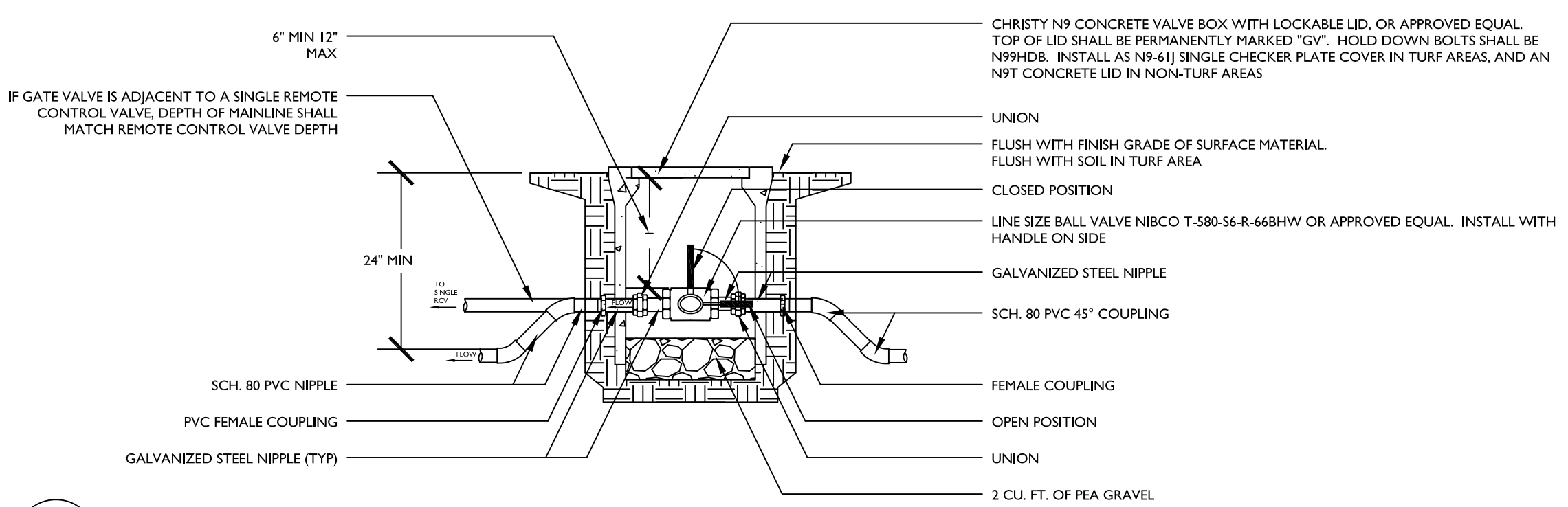


4 TYPICAL PRESSURE REGULATOR & FILTER DETAIL  
NOT TO SCALE

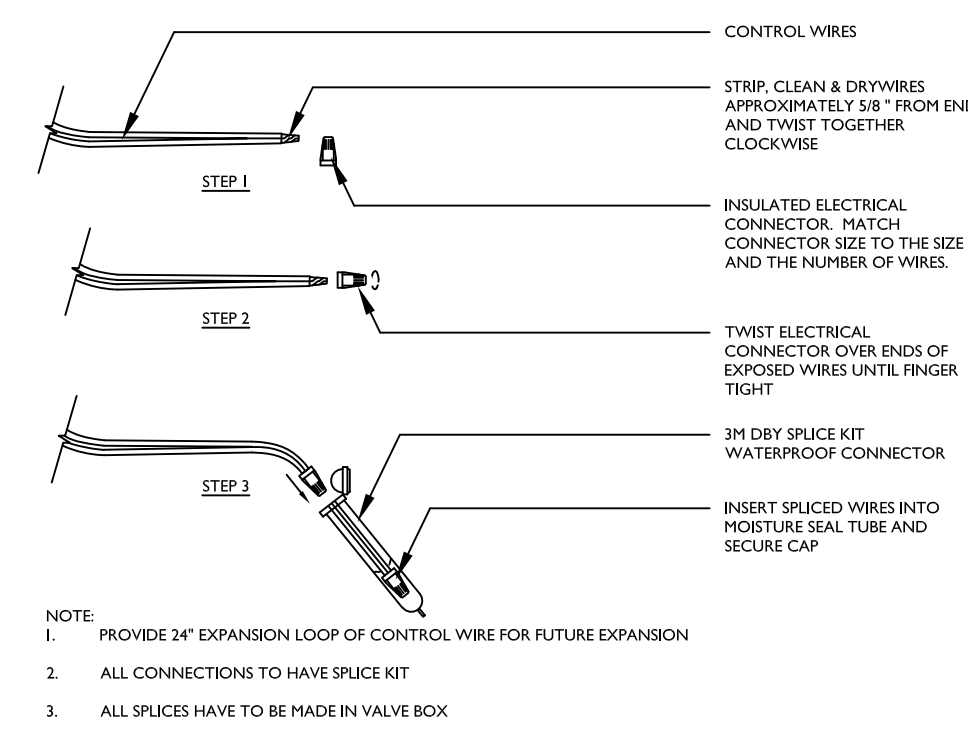


**NOTES:**  
1. INSTALL BUBBLER ABOVE ROOT BALL. ALLOW 6" MINIMUM DISTANCE BETWEEN BUBBLER AND STEM/TRUNK.  
2. INSTALL CHECK VALVE (TxT) WHERE ELEVATION OF HIGHEST BUBBLER IN CIRCUIT IS MORE THAN 4 FEET FROM THE LOWEST BUBBLER IN CIRCUIT.  
3. INSTALL 2 BUBBLERS PER TREE WITHIN THE LIMITS OF PLANTING PIT.

1 BUBBLER(S) ON FLEX RISER(S) FOR TREES  
NOT TO SCALE



2 BALL VALVE DETAIL  
NOT TO SCALE



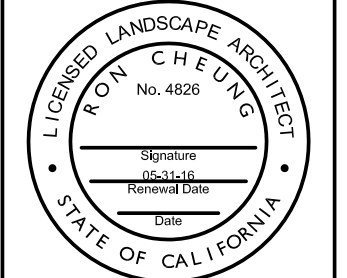
3 WIRE SPlicing DETAIL  
NOT TO SCALE

# 7756 - CHYNOWETH AVENUE GREEN STREET PROJECT IRRIGATION DETAILS -NOTES

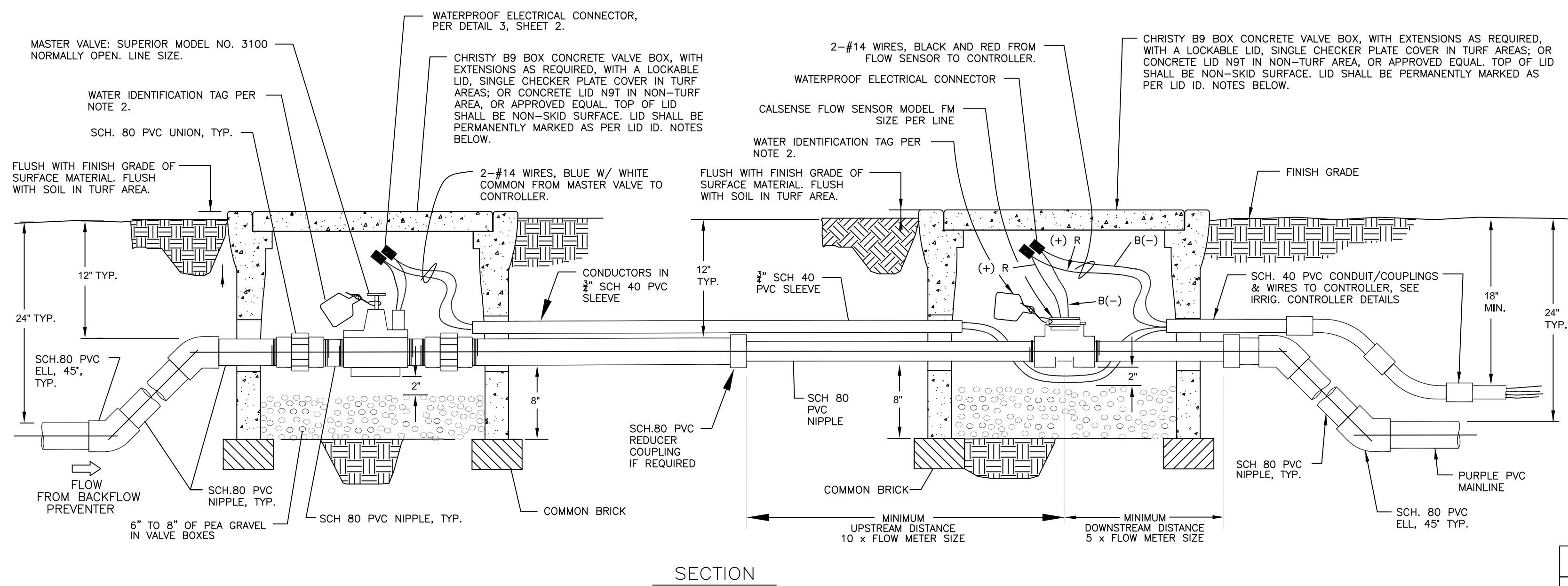
NO.	REVISIONS	INITIALS	DATE
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SANITARY	_____
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MATERIALS LAB	_____
SURVEY	_____
LANDSCAPE	_____
ROADS & BRIDGES	_____

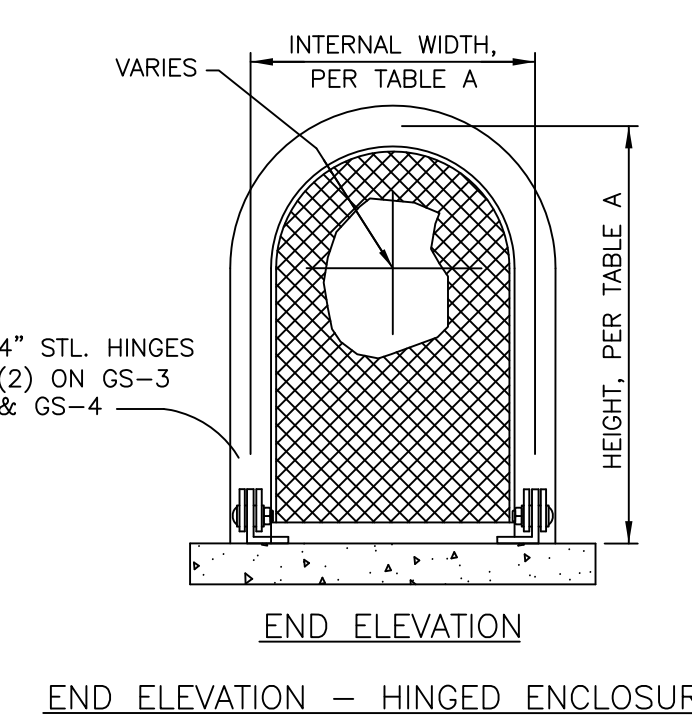
ELECTRICAL	_____
CONSTRUCTION	_____
TRANSPORTATION	_____
TRAFFIC OPERATION	_____
MAINTENANCE	_____
GEOMETRIC	_____



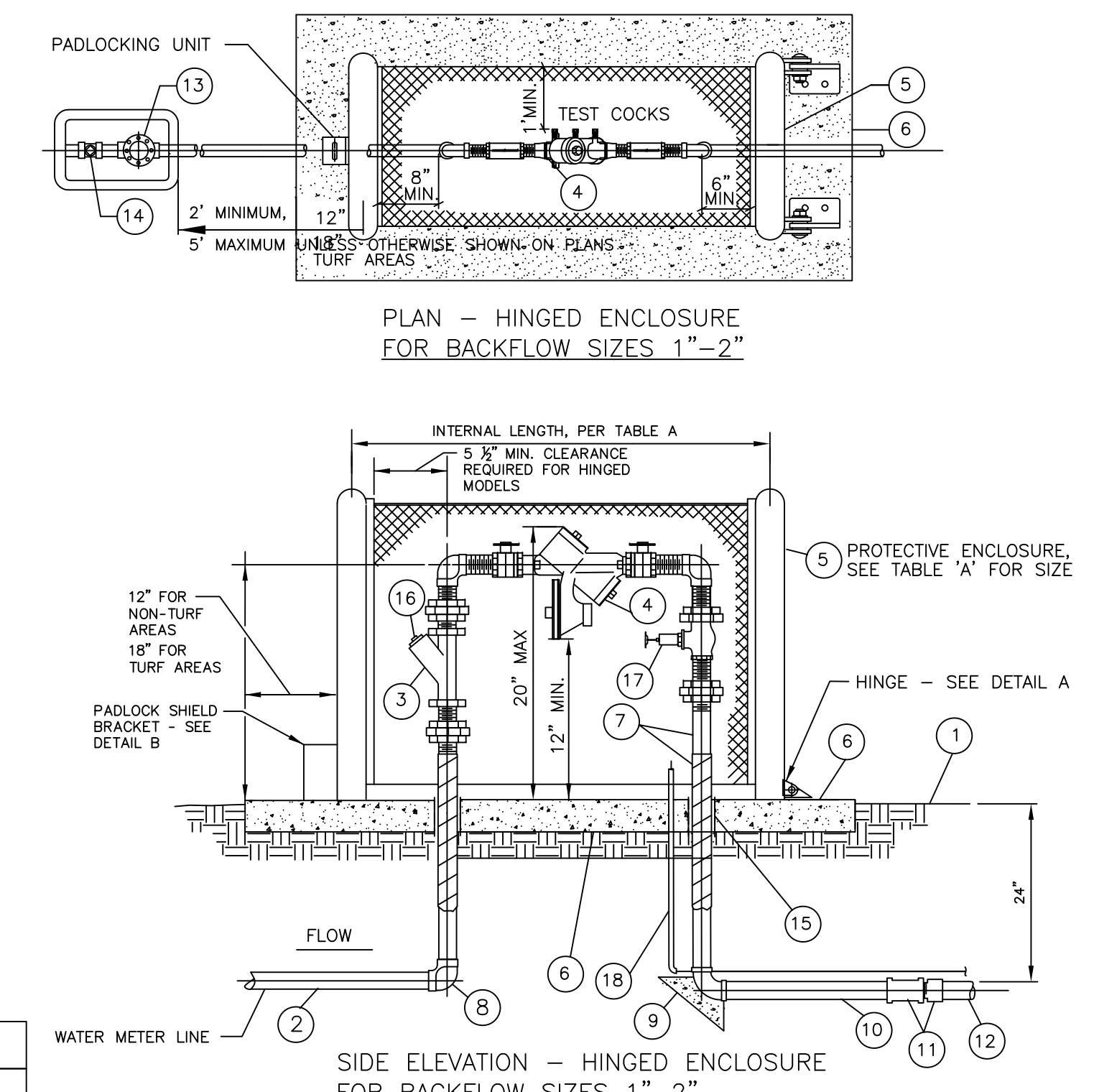
DEPARTMENT OF PUBLIC WORKS SAN JOSE, CALIFORNIA	
DESIGNED BY: JD	BARRY NG DIRECTOR OF PUBLIC WORKS
CHECKED BY: RC	
PROJ. MGR.: EY	
DATE: xxx x, 2016	
SCALE: N.T.S.	
SHEET NO. 38 OF 41 SHEETS	PROJECT ID. 7756



SECTION



END ELEVATION - HINGED ENCLOSURE

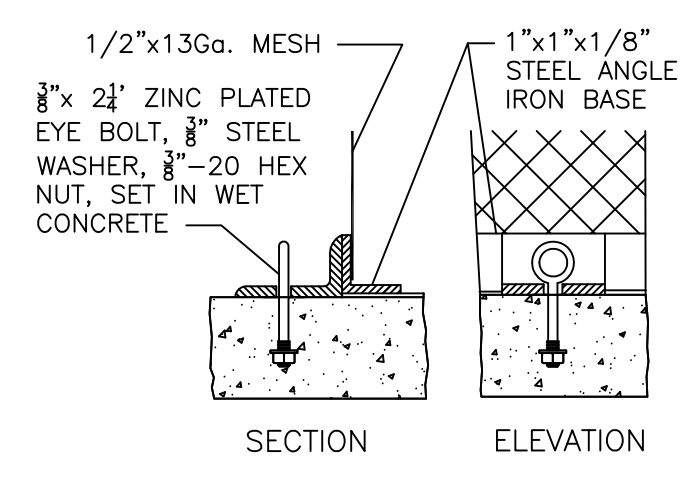


PLAN - HINGED ENCLOSURE FOR BACKFLOW SIZES 1\"/>

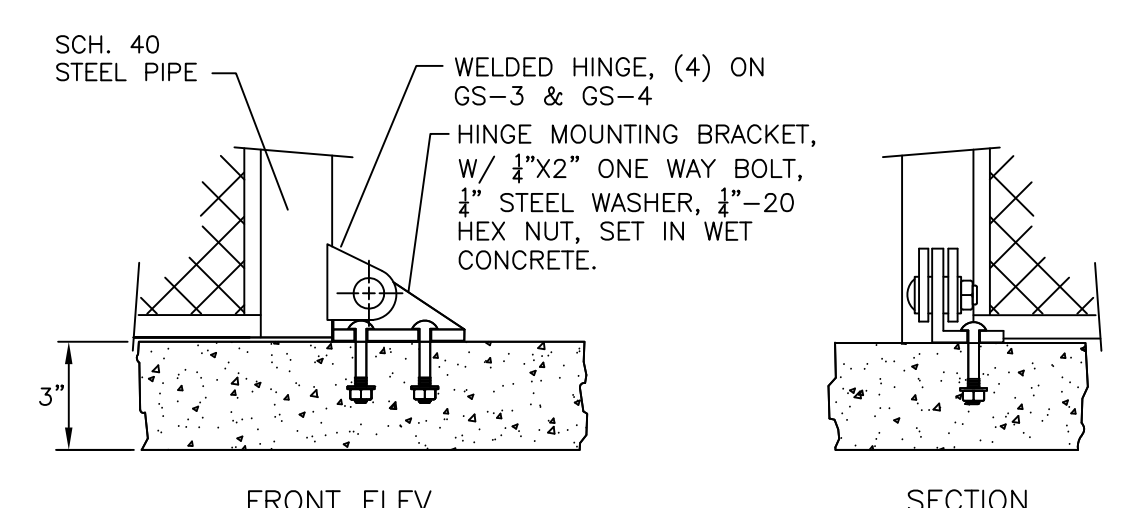
SIDE ELEVATION - HINGED ENCLOSURE FOR BACKFLOW SIZES 1\"/>

REDUCED PRESSURE BACKFLOW PREVENTION UNIT BY ZURN INDUSTRIES		BACKFLOW ENCLOSURE BY BPD		TYPE	
MODEL SIZE	MODEL	LENGTH (INCLUDING SHUT-OFF VALVES)	TYPE	MODEL	INTERNAL SIZE DIMENSIONS
1"	975XL2 WITH UNION BALL VALVES	13" L	THREADED	GS-3	10" W x 24" H x 40" L
1-1/4"	975XL2 WITH UNION BALL VALVES	17" L	THREADED	GS-3	10" W x 24" H x 40" L
1-1/2"	975XL2 WITH UNION BALL VALVES	17-3/8"	THREADED	GS-3	10" W x 24" H x 40" L
2"	975XL2 WITH UNION BALL VALVES	10-1/2"	THREADED	GS-3	10" W x 24" H x 40" L
2-1/2"	375AST WITH GATE VALVES	31-7/8"	FLANGED	GS-5	24" W x 40" H x 66" L
3"	375AST WITH GATE VALVES	32-7/8"	FLANGED	GS-5	24" W x 40" H x 66" L

TABLE A - BACKFLOW UNIT AND ENCLOSURE SIZES



B - PADLOCKING DETAIL



A - HINGE DETAILS

ENCLOSURE HINGE & PADLOCK DETAILS

ENCLOSURE NOTE:  
1. ALL BOLTS FOR HINGES AND HASPS SHALL BE ZINC PLATED TAMPER PROOF.

FLOW SENSOR AND MASTER VALVE NOTES

1. THE MASTER VALVE SHALL BE INSTALLED DOWNSTREAM FROM THE WATER METER AND BACKFLOW PREVENTION DEVICE. THE FLOW SENSOR SHALL BE INSTALLED DOWNSTREAM FROM THE MASTER VALVE. NOTE THE INTENDED DIRECTION OF THE FLOW AS INDICATED BY AN ARROW ON TOP OF THE FLOW SENSOR. THERE MUST BE FREE, UNRESTRICTED PIPE OF THE SAME SIZE AS THE FLOW SENSOR, WITH A LENGTH OF AT LEAST 10 TIMES THE FLOW SENSOR SIZE UPSTREAM, AND 5 TIMES THE FLOW SIZE DOWNSTREAM OF THE FLOW SENSOR TEE. THIS SHOULD APPLY TO DISTANCE FROM ANY VALVE, FITTING, SENSOR METER, OR BACKFLOW DEVICE.
2. IDENTIFICATION TAGS TO BE PERMANENTLY AFFIXED TO VALVE, INSTALL ON TAG WITH STATION NO. TO CORRESPOND WITH STATION IN CONTROLLER. INSTALL A SECOND TAG AS PER THE FOLLOWING: FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO POTABLE WATER, INSTALL A POTABLE WATER IDENTIFICATION TAG PER DETAIL.
3. THE LENGTH OF #14 AWG WIRE CONNECTING THE FLOW SENSOR AND MASTER VALVE TO THE IRRIGATION CONTROLLER SHALL NOT EXCEED 2,000 FEET.
4. WIRES FROM THE FLOW SENSOR TO THE IRRIGATION CONTROLLER SHALL CONSIST OF ONE (1) BLACK AND ONE (1) RED STANDARD #14 AWG IRRIGATION WIRES INSTALLED IN GREY PVC ELECTRICAL CONDUIT. THE FLOW SENSOR HAS TWO WIRE LEADS, A BLACK AND A RED. AT THE CONTROLLER, THE BLACK WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE BLACK SENSOR WIRE, AND THE RED WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE RED FLOW SENSOR WIRE. WIRES FROM THE MASTER VALVE TO THE IRRIGATION CONTROLLER SHALL CONSIST OF ONE (1) BLUE AND ONE (1) WHITE STANDARD #14 AWG IRRIGATION WIRE INSTALLED IN THE SAME GREY PVC ELECTRICAL CONDUIT AS THE FLOW SENSOR WIRES. THE MASTER VALVE HAS TWO WIRE LEADS, A WHITE AND A BLUE, AT THE CONTROLLER. THE WHITE WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE WHITE MASTER VALVE WIRE, AND THE BLUE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE BLUE MASTER VALVE WIRE.
5. THE CALSENSE FLOW SENSOR OPERATES AT 9 VOLTS DC. THE FLOW SENSOR WIRES SHALL BE SEPARATED FROM OTHER CONTROL WIRES WHEN PULLED UP AT THE IRRIGATION CONTROLLER SITE. 24 VAC SHALL NOT BE USED TO TEST FIELD WIRES WHEN DETERMINING PROPER SEQUENCING, AND IS APPLIED TO THE FLOW SENSOR WIRES. THIS WOULD RESULT IN THE SENSING UNIT IN THE FLOW SENSOR TO BE DAMAGED.
6. ALL ELECTRICAL CONNECTIONS SHALL BE TIGHT AND DRY. ANY WATER LEAKING INTO A CONNECTION WILL CAUSE FLOW METER PROBLEMS. ADDITIONALLY, THERE SHALL NOT BE ANY BURIED SPLICES BETWEEN THE FLOW SENSOR AND THE IRRIGATION CONTROLLER. USE ONLY CALSENSE RECOMMENDED ELECTRICAL CONNECTORS.

LID IDENTIFICATION NOTES:

7. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO POTABLE WATER, TOP OF MASTER VALVE LID TO BE PERMANENTLY MARKED AS 'MV' AS PER NOTE #3. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO POTABLE WATER, TOP OF FLOW SENSOR LID TO BE PERMANENTLY MARKED AS 'FS' AS PER NOTE #9.
8. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO RECYCLED WATER, TOP OF MASTER VALVE LID TO BE PERMANENTLY MARKED AS 'MV' AND 'RECYCLED WATER' AS PER NOTE #3. FOR IRRIGATION SYSTEMS WITH AN IMMEDIATE CONNECTION TO RECYCLED WATER TOP OF FLOW SENSOR LID TO BE PERMANENTLY MARKED AS 'FS' AND 'RECYCLED WATER' AS PER NOTE #9.
9. CONCRETE LIDS SHALL HAVE MARKINGS MOLDED-IN AT THE FACTORY. STEEL CHECKER PLATE LIDS SHALL HAVE EITHER BEAD-WELDED OR STAMPED MARKINGS AT THE FACTORY.

2 FLOW SENSOR AND MASTER VALVE DETAIL FOR TYPE 1 NOT TO SCALE

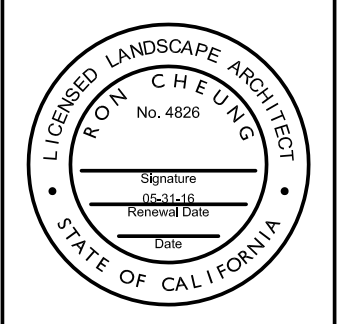
1 BACKFLOW PREVENTER AND ENCLOSURE FOR POTABLE WATER NOT TO SCALE

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT IRRIGATION DETAILS -NOTES

NO.	REVISIONS	INITIALS	DATE
6			
5			
4			
3			
2			
1			

SANITARY	_____
STORM	_____
MATERIALS LAB	_____
SURVEY	_____
LANDSCAPE	_____
ROADS & BRIDGES	_____

ELECTRICAL	_____
CONSTRUCTION	_____
TRANSPORTATION	_____
TRAFFIC OPERATION	_____
MAINTENANCE	_____
GEOMETRIC	_____



DEPARTMENT OF PUBLIC WORKS SAN JOSE, CALIFORNIA	
DESIGNED BY: JD	BARRY NG DIRECTOR OF PUBLIC WORKS
CHECKED BY: RC	
PROJ. MGR.: EY	
DATE: xxx x, 2016	
SCALE: N.T.S.	
SHEET NO. 39 OF 41 SHEETS	PROJECT ID. 7756

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT



Landscape Documentation Package  
Water Efficient Landscape Worksheet

MAWA = Maximum Applied Water Allowance

MAWA (Eto - Eppt)(0.62)(0.7)(LA)+(0.3)(SLA)  
Location San Jose, CA  
MAWA Maximum Applied Water Allowance (gallons per year)  
Eto Reference Evapo-transpiration (for location in inches per year)  
Eppt Effective Precipitation (no more than 25% of local Eto, typically 10%)  
0.62 Conversion factor to gallons  
0.7 Eto Adjustment Factor (average Ks of .5 divided by 0.7 irrigation efficiency)  
LA Total Irrigated Landscape Area (in square feet) including Special Landscape Area (SLA)  
SLA Portion of the total Irrigated Landscape Area identified as Special Landscape Area  
0.3 Additional ET Adjustment Allowance Factor for Special Landscape Area (1.0 - 0.7 = 0.3)

Enter Eto @ site here = 45.3 Inches/year  
Enter Eppt @ site here = 0.0 Inches/year  
Enter LA @ site here = 0.0 square feet  
Enter SLA @ site here = 0 square feet

MAWA = 45.3 0.0 0.62 0.7 0.0 0.3 0

MAWA = 0 Gallons/Year 0.0 Acre Feet/Year  
0 Units/Year

Landscape Documentation Package  
Water Efficient Landscape Worksheet

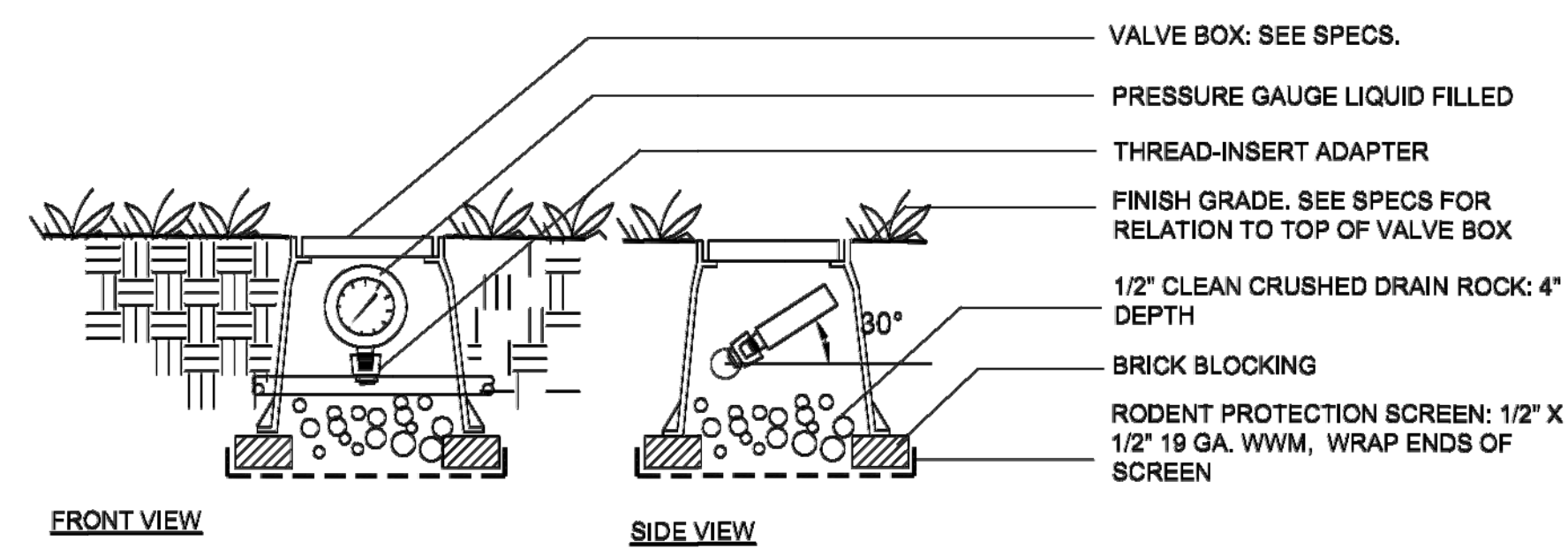
ETWU = Estimated Total Water Use

ETWU (Eto)(0.62)((PF x HA)/IE+ SLA)  
Location San Jose, CA  
ETWU Estimated Total Water Use in gallons per year  
Eto Reference Evapo-transpiration (for location in inches per year)  
1.62 Conversion factor to gallons  
PF Plant Factor from WUCOLS (=Ks\*Kd\*Kmc)  
HA Hydrozone Area (high, medium, low water use areas) (square feet)  
IE Irrigation Efficiency (minimum 0.71)  
SLA Special Landscape Area (square feet)

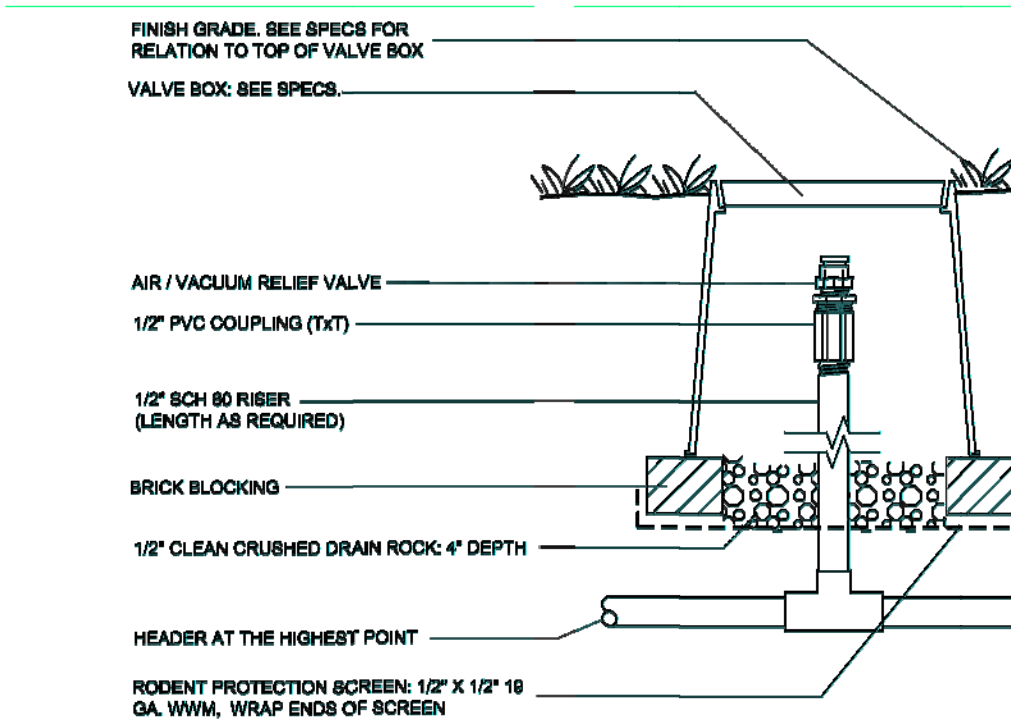
Hydro-zone No	Zone Description	Hydrozone (water-use)	Plant Factor (PF)	Area (square feet)	PF x Area (square feet)	Irrigation Efficiency	Calc. Factor
1	Trees	N/A	0	0	0	0.71	0
2	Shrubs	Low	0.1	0	0	0.90	0
3	Groundcovers	N/A	0	0	0	0.71	0
4	Bioretention	N/A	0	0	0	0.71	0
5	Turf	N/A	0	0	0	0.71	0
6	Native Grass	N/A	0	0	0	0.71	0
Sum							

ETWU = (Eto)(0.62)((PF x HA)/IE+ SLA)  
ETWU = 45.3 0.62 0 0  
ETWU = 0 Gallons/Year  
0 Units/Year  
0 Acre-Ft/Year

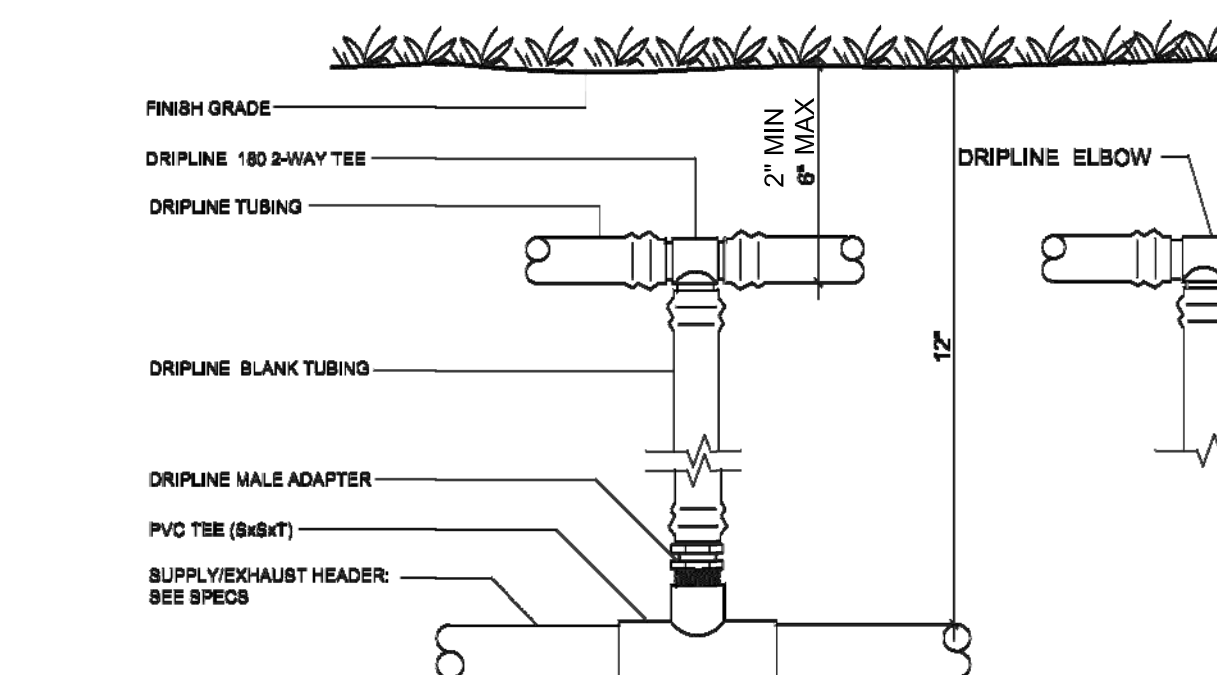
ETWU must be less than MAWA



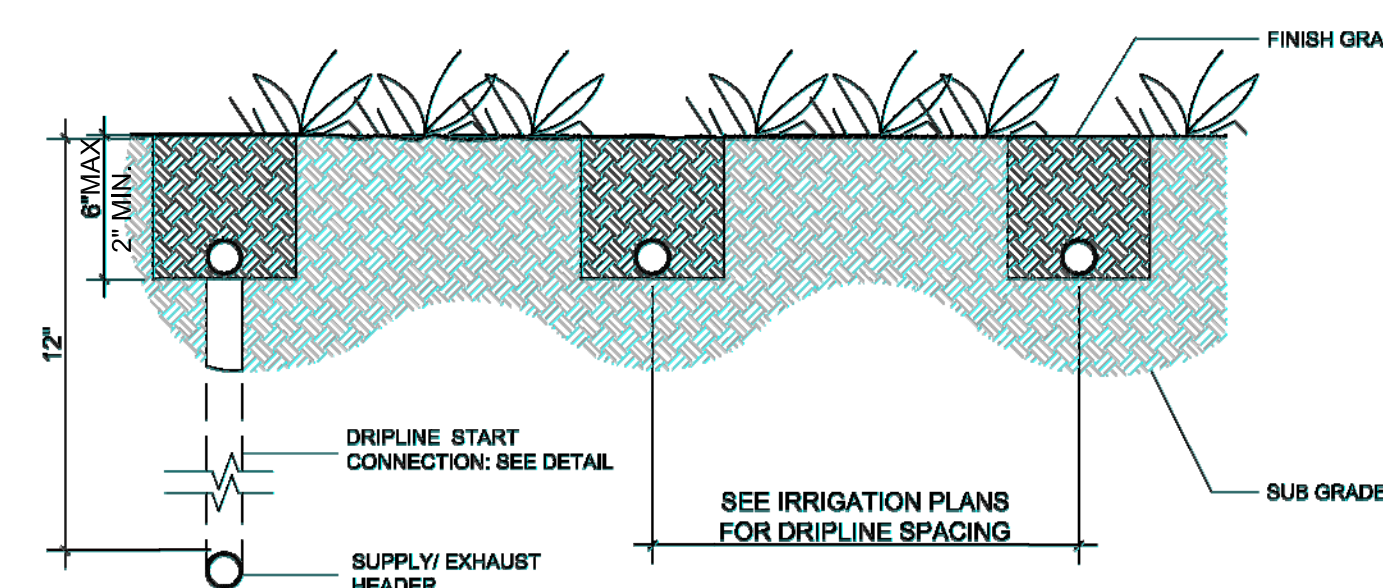
7 Sub-surface Drip: Pressure Gauge  
NTS



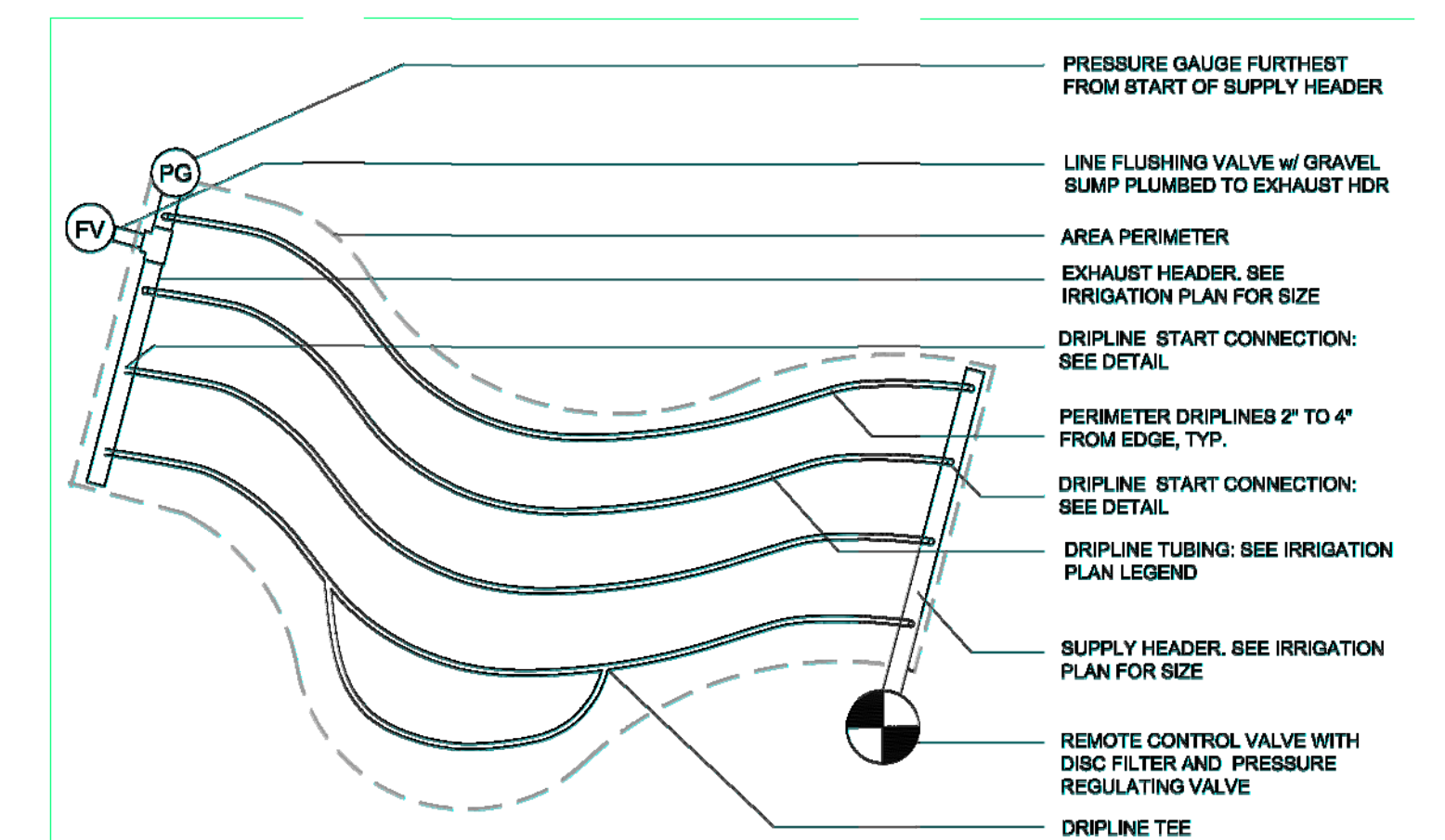
6 Sub-surface Drip: Air-relief valve  
NTS



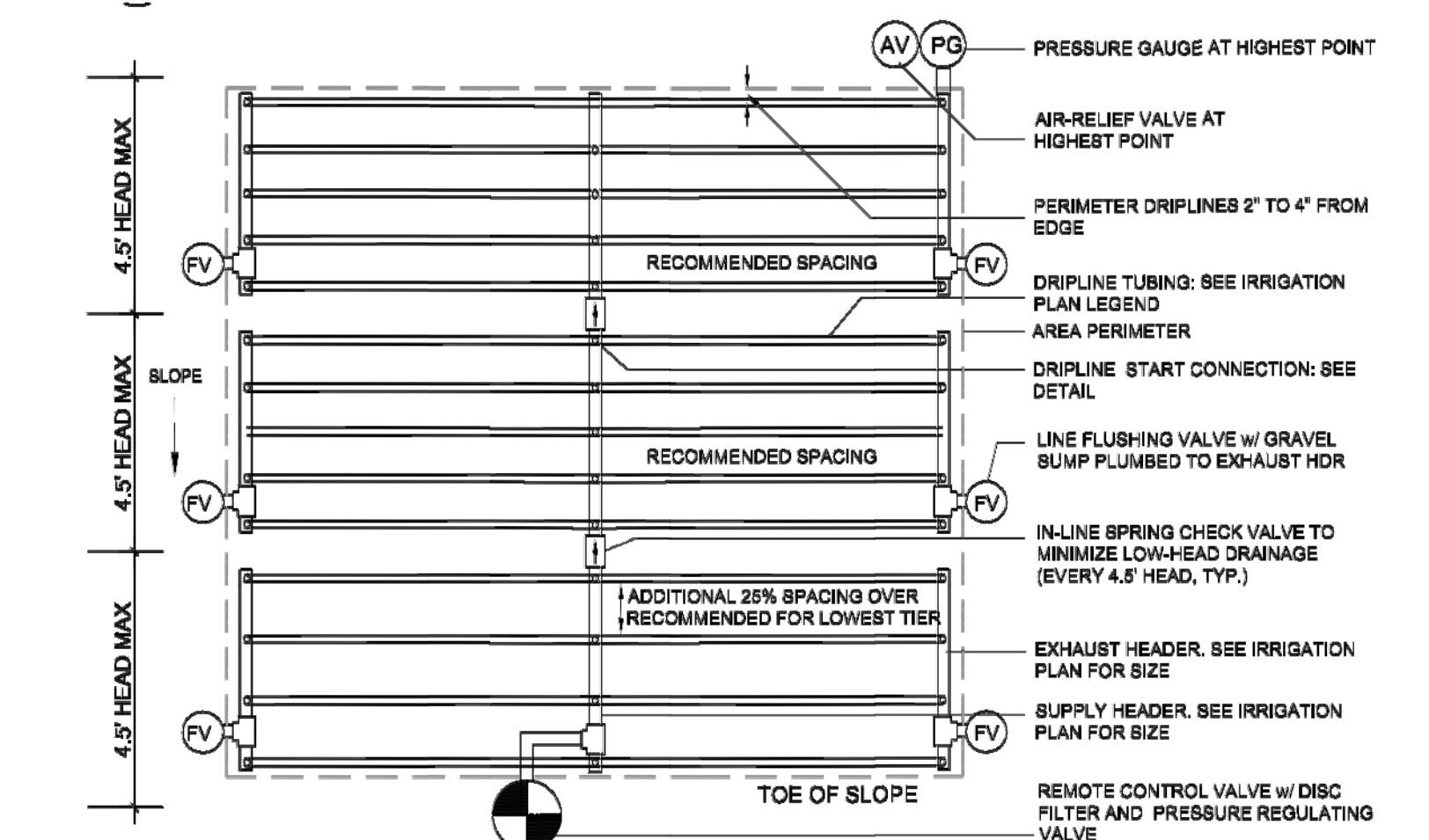
5 Sub-surface Drip: Start Connection with Riser  
NTS



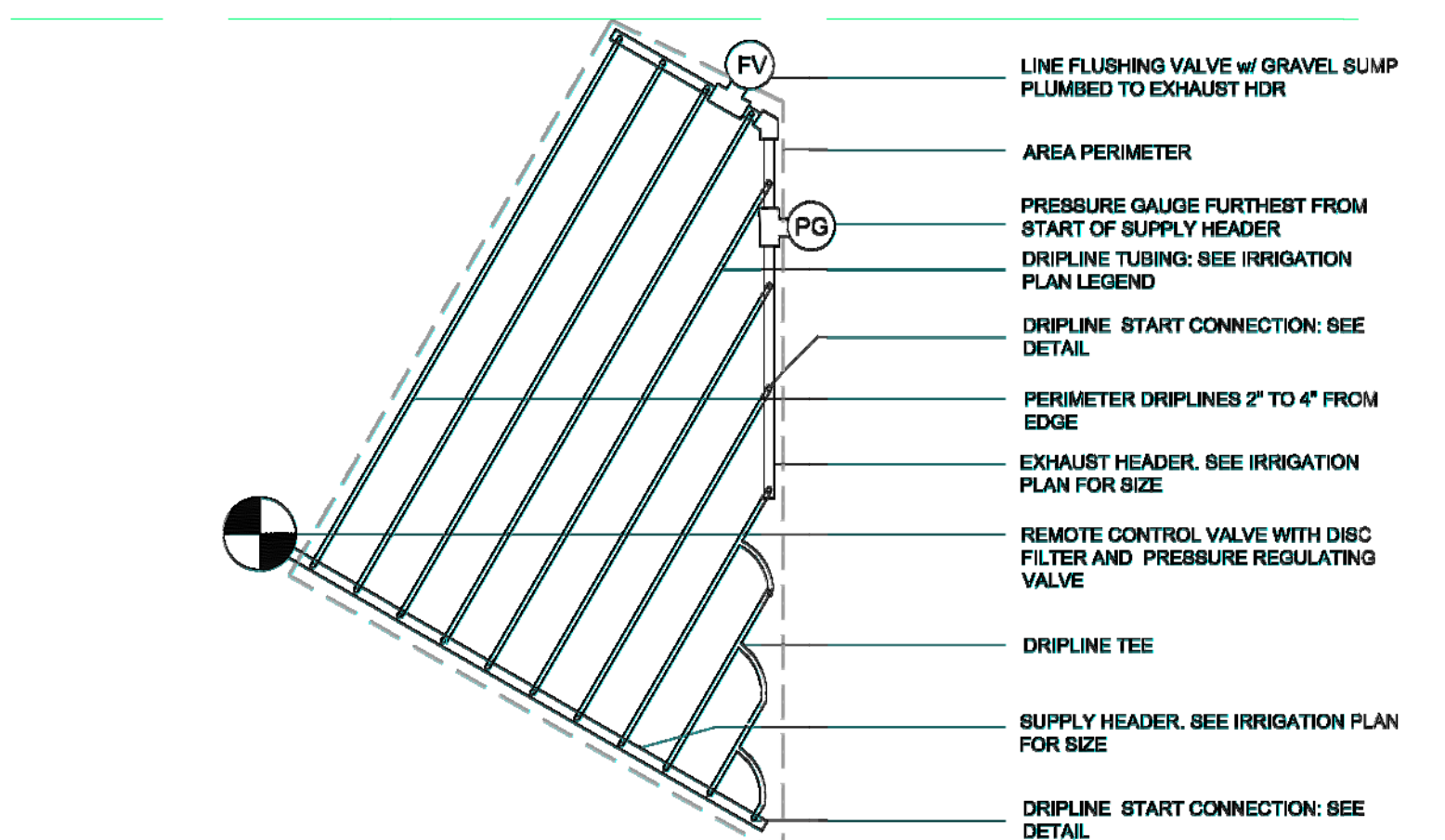
4 Sub-surface Drip: Subgrade Installation  
NTS



1 Sub-surface Drip: Irregular Areas- Curves  
NTS



2 Sub-surface Drip: Slope Layout 1 Valve  
NTS

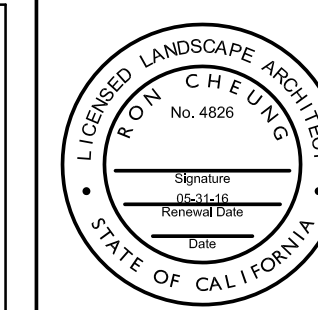


3 Sub-surface Drip: Irregular Areas - Triangular  
NTS

7756 - CHYNOWETH AVENUE GREEN STREET PROJECT  
IRRIGATION DETAILS - NOTES

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SHEET NO. 41 OF 41 SHEETS	PROJECT ID. 7756

100% Submittal