DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	2.9/27.3	901	906

Tierney L. Sanderson 05-18-15
REGISTERED CIVIL ENGINEER DATE

6-22-15
PLANS APPROVAL DATE

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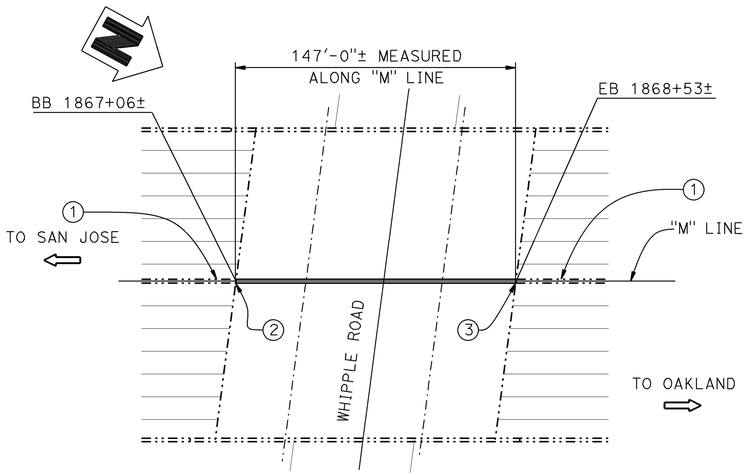
REGISTERED PROFESSIONAL ENGINEER
TIERNEY SANDERSON
No. 48605
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

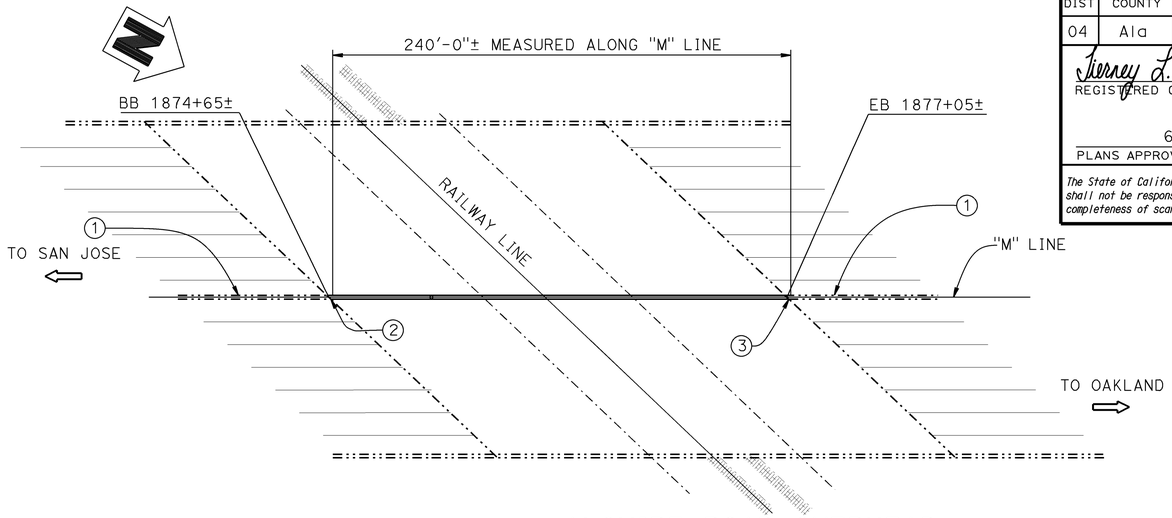


WHIPPLE ROAD UNDERCROSSING

BRIDGE NO. 33-0245 POST MILE 13.67
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM	
CONCRETE BARRIER (TYPE 60GA MODIFIED)	147	LF

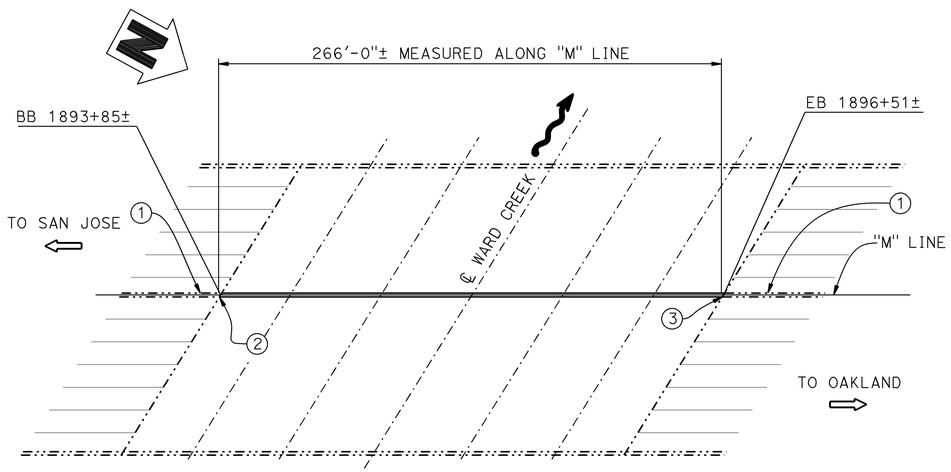


ALQUIRE ROAD OVERHEAD

BRIDGE NO. 33-0246 POST MILE 13.81
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM	
CONCRETE BARRIER (TYPE 60GA MODIFIED)	240	LF

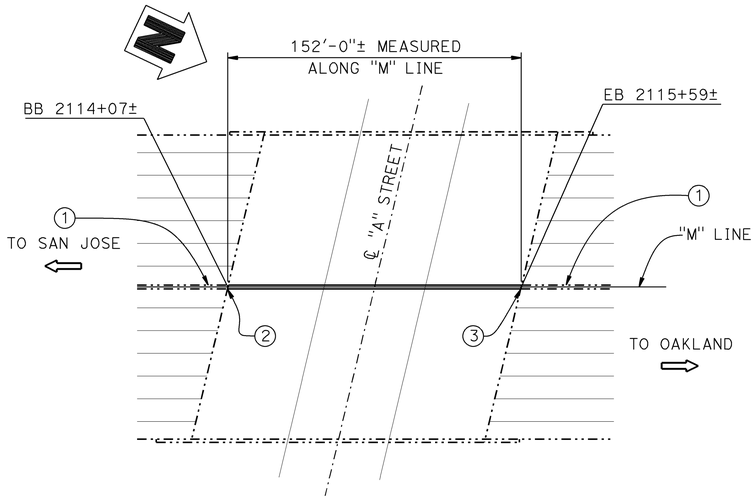


WARD CREEK BRIDGE

BRIDGE NO. 33-0251 POST MILE 14.18
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION F	LUMP SUM	
CONCRETE BARRIER (TYPE 60GA MODIFIED)	266	LF



"A" STREET UNDERCROSSING

BRIDGE NO. 33-0179 POST MILE 18.35
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM	
CONCRETE BARRIER (TYPE 60GA MODIFIED)	152	LF

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:

1. Concrete Barrier, see "ROADWAY PLANS".
2. Indicates begin removal of Concrete Barrier Type 50A(Mod) and begin Concrete Barrier Type 60GA(Mod).
3. Indicates end removal of Concrete Barrier Type 50A(Mod) and end Concrete Barrier Type 60GA(Mod).

LEGEND:
—— Indicates new construction
–·–· Indicates existing structure

DANIEL T. ADAMS DESIGN ENGINEER	DESIGN	BY T. Sanderson	CHECKED D. Azzam	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE		
	DETAILS	BY G. Hallstrom	CHECKED D. Azzam	LAYOUT	BY T. Sanderson	CHECKED D. Azzam	
	QUANTITIES	BY D. Azzam	CHECKED F. Chen	SPECIFICATIONS	BY E. Mansoubi	PLANS AND SPECS COMPARED E. Mansoubi	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	MEDIAN BARRIER REPLACEMENT
Various	GENERAL PLAN NO. 2
POST MILE	
Various	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3621
PROJECT NUMBER & PHASE: 0414000421 CONTRACT NO.: 04-2J0704

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10-15-14	12-08-14	03-06-15	05-18-15	2	7

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

FILE => 042j0704agp02.dgn

USERNAME = s126849 DATE PLOTTED => 18-AUG-2015 TIME PLOTTED => 13:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	2.9/27.3	902	906

Tierney L. Sanderson 05-18-15
REGISTERED CIVIL ENGINEER DATE

6-22-15
PLANS APPROVAL DATE

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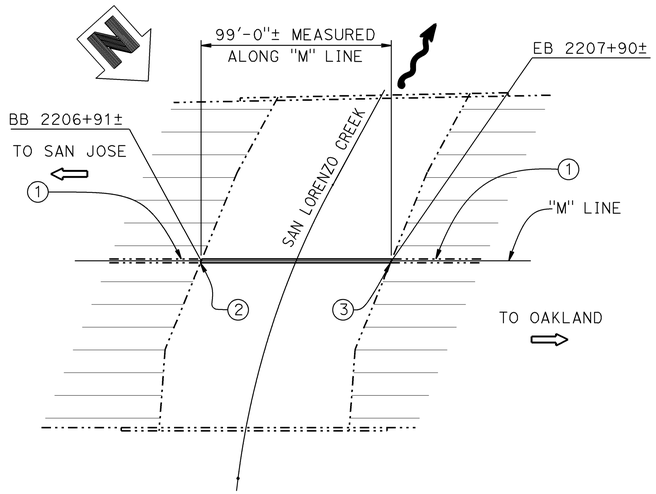
REGISTERED PROFESSIONAL ENGINEER
TIERNEY SANDERSON
No. 48605
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

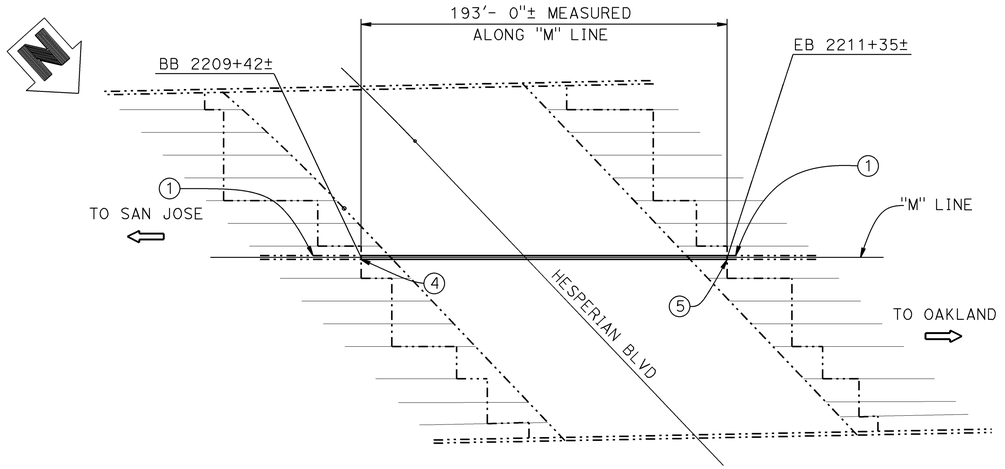


SAN LORENZO CREEK BRIDGE

BRIDGE NO. 33-0175 POST MILE 20.11
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CONCRETE BARRIER (TYPE 60GA MODIFIED)	99 LF

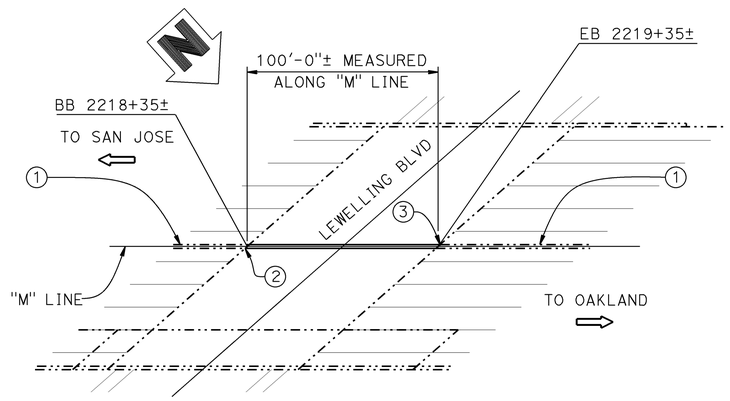


HESPERIAN BLVD UNDERCROSSING

BRIDGE NO. 33-0170 POST MILE 20.16
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CONCRETE BARRIER (TYPE 60GA MODIFIED)	193 LF

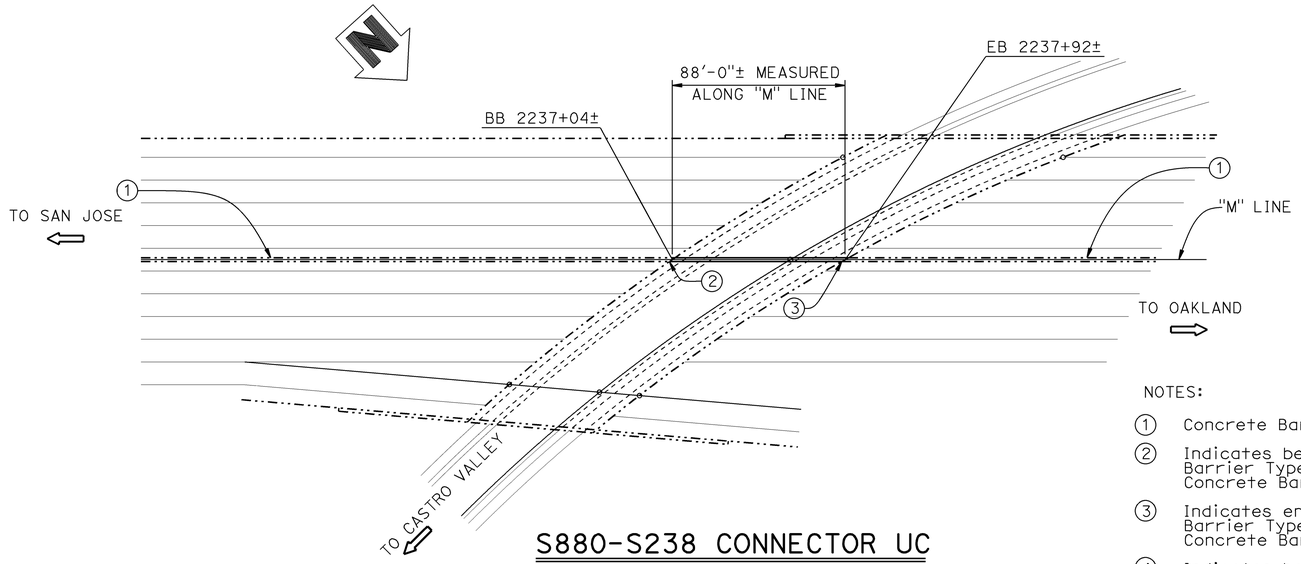


LEWELLING BLVD UNDERCROSSING

BRIDGE NO. 33-0176 POST MILE 20.32
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CONCRETE BARRIER (TYPE 60GA MODIFIED)	100 LF



S880-S238 CONNECTOR UC

BRIDGE NO. 33-0172 POST MILE 20.68
1"=40'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CONCRETE BARRIER (TYPE 60GA MODIFIED)	88 LF

NOTES:

1. Concrete Barrier, see "ROADWAY PLANS".
2. Indicates begin removal of Concrete Barrier Type 50A(Mod) and begin Concrete Barrier Type 60GA(Mod).
3. Indicates end removal of Concrete Barrier Type 50A(Mod) and end Concrete Barrier Type 60GA(Mod).
4. Indicates begin removal of Concrete Barrier Type 50A and begin Concrete Barrier Type 60GA(Mod).
5. Indicates end removal of Concrete Barrier Type 50A and end Concrete Barrier Type 60GA(Mod).

LEGEND:
—— Indicates new construction
–·–· Indicates existing structure

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DANIEL T. ADAMS
DESIGN ENGINEER

	BY	CHECKED
DESIGN	T. Sanderson	D. Azzam
DETAILS	G. Hallstrom	D. Azzam
QUANTITIES	D. Azzam	F. Chen

LOAD & RESISTANCE FACTOR DESIGN — LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE

	BY	CHECKED
LAYOUT	T. Sanderson	D. Azzam
SPECIFICATIONS	E. Mansoubi	PLANS AND SPECS COMPARED: E. Mansoubi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. Various
POST MILE Various

MEDIAN BARRIER REPLACEMENT
GENERAL PLAN NO. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3621
PROJECT NUMBER & PHASE: 0414000421
CONTRACT NO.: 04-2J0704

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
10-15-14	12-09-14	03-06-15	05-18-15	3	7

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

FILE => 042j0704agp03.dgn

USERNAME => s1268249 DATE PLOTTED => 18-AUG-2015 TIME PLOTTED => 13:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	2.9/27.3	903	906

Tierney L. Sanderson 05-18-15
REGISTERED CIVIL ENGINEER DATE

6-22-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TIERNEY SANDERSON No. 48605 Exp. 6/30/16 CIVIL — STATE OF CALIFORNIA

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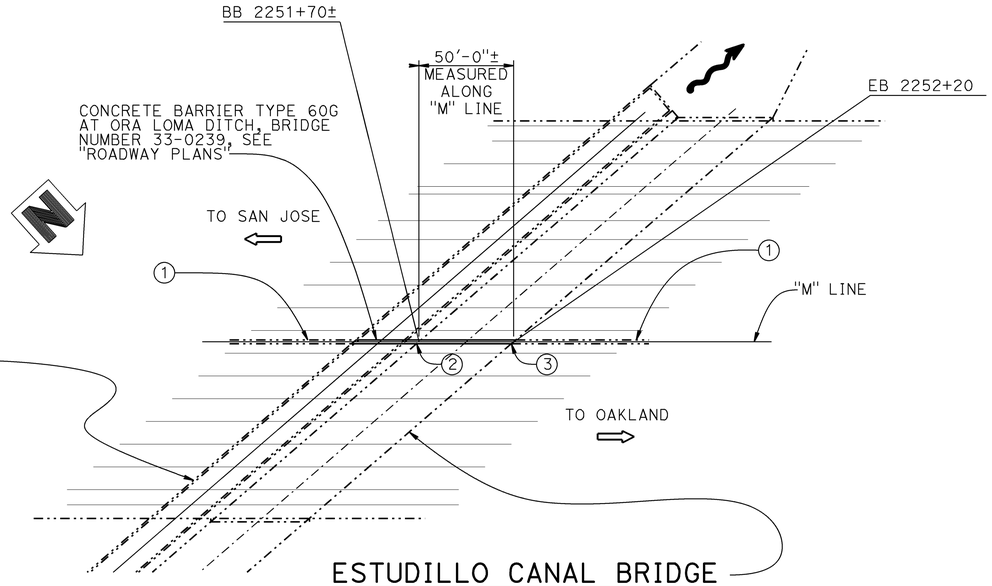


ORA LOMA DITCH

BRIDGE NO. 33-0239 POST MILE 20.95
1"=40'

ESTUDILLO CANAL BRIDGE

BRIDGE NO. 33-0756 POST MILE 20.96
1"=40'

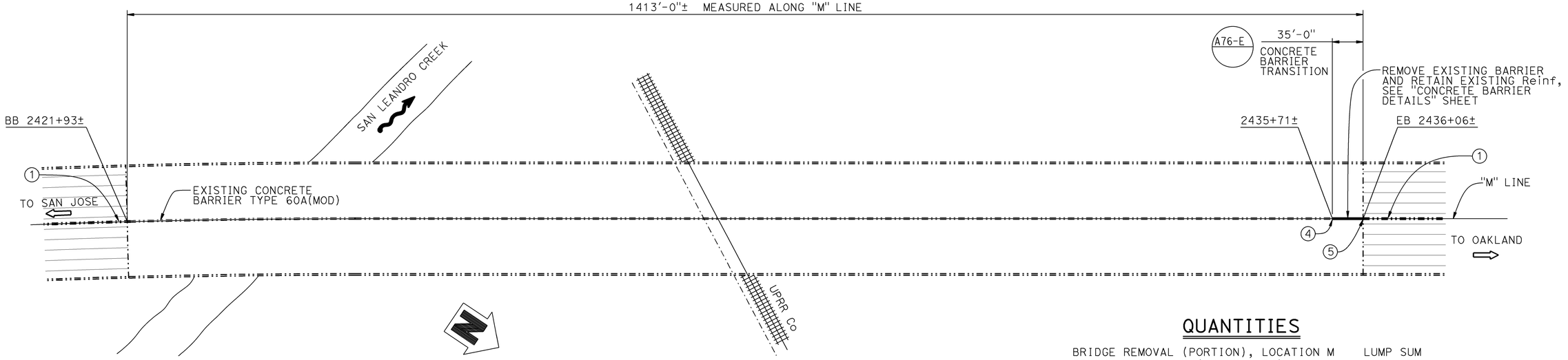
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CONCRETE BARRIER (TYPE 60GA MODIFIED 2)	50 LF

NOTES:

1. Concrete Barrier, see "ROADWAY PLANS".
2. Indicates begin removal of Concrete Barrier Type 50A and begin Concrete Barrier Type 60GA(Mod 2).
3. Indicates end removal of Concrete Barrier Type 50A and end Concrete Barrier Type 60GA(Mod 2)
4. Indicates begin removal of Concrete Barrier Type 60A(Mod) and begin Transition to Concrete Barrier Type 60GA(Mod).
5. Indicates end removal of Concrete Barrier Type 60A(Mod) and end Transition to Concrete Barrier Type 60GA(Mod).

LEGEND:
—— Indicates new construction
–·–· Indicates existing structure



SAN LEANDRO CREEK BRIDGE & OVERHEAD

BRIDGE NO. 33-0100 POST MILE 24.18
1"=60'

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CONCRETE BARRIER (TRANSITION)	35 LF

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DANIEL T. ADAMS
DESIGN ENGINEER

	BY	CHECKED
DESIGN	T. Sanderson	D. Azzam
DETAILS	G. Hallstrom	D. Azzam
QUANTITIES	D. Azzam	F. Chen

LOAD & RESISTANCE FACTOR DESIGN — LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE

	BY	CHECKED
LAYOUT	T. Sanderson	D. Azzam
SPECIFICATIONS	E. Mansoubi	PLANS AND SPECS COMPARED: E. Mansoubi

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.: Various
POST MILE: Various

MEDIAN BARRIER REPLACEMENT
GENERAL PLAN NO. 4

UNIT: 3621
PROJECT NUMBER & PHASE: 0414000421
CONTRACT NO.: 04-2J0704

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10-30-14	03-19-14	05-18-15	03-06-15	4	7

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

FILE => 042j0704agp04.dgn

USERNAME => s126849 DATE PLOTTED => 18-AUG-2015 TIME PLOTTED => 13:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	2.9/27.3	904	906

Tierney L. Sanderson — REGISTERED CIVIL ENGINEER — 05-18-15 DATE

6-22-15 PLANS APPROVAL DATE

TIERNEY SANDERSON No. 48605 Exp. 6/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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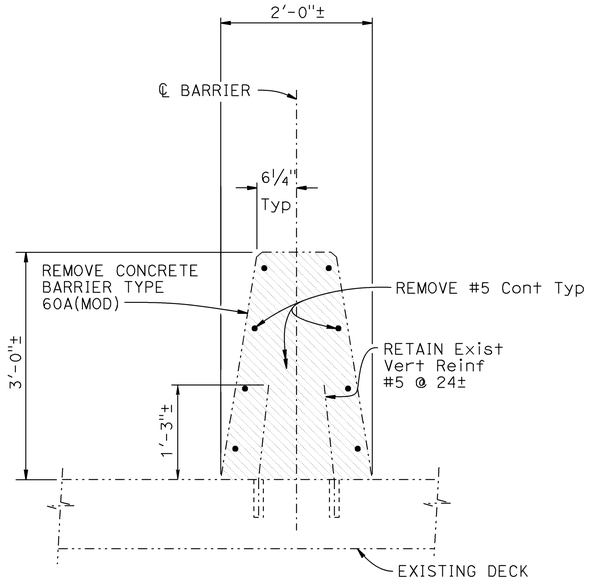
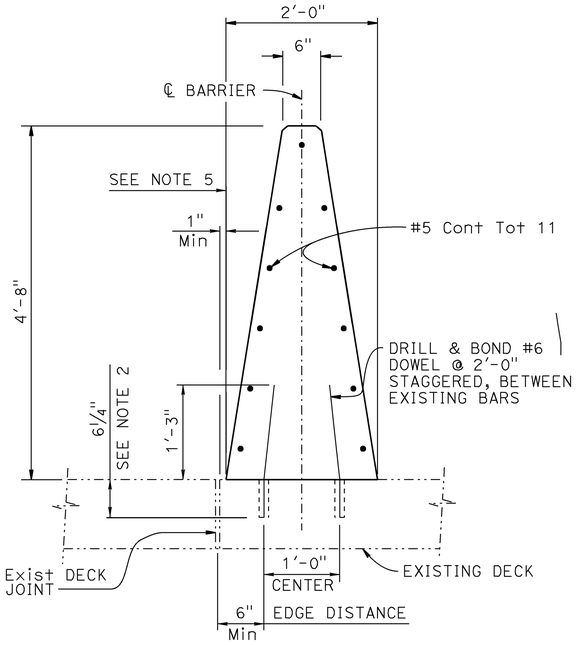


EXISTING CONCRETE BARRIER TYPE 60A(Mod)

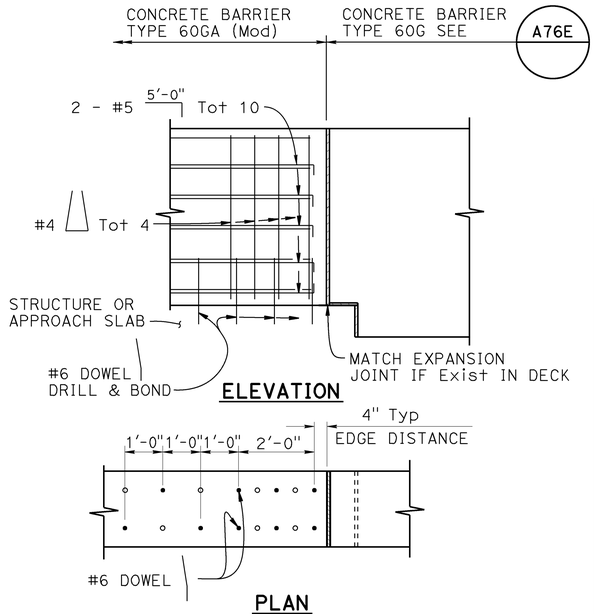
1" = 1'-0"

SEE NOTE 8



CONCRETE BARRIER TYPE 60GA(Mod)

1" = 1'-0"

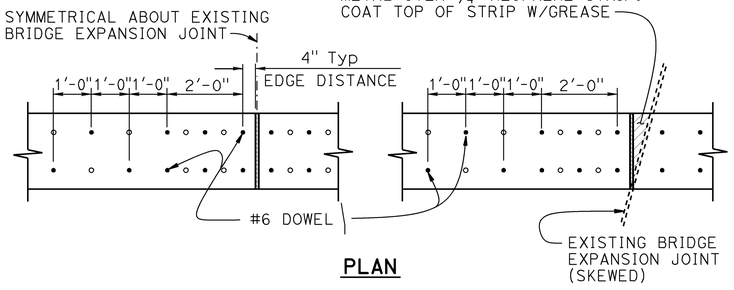


CONNECTION TO STRUCTURE

½" = 1'-0"

DECK THICKNESS DATA TABLE

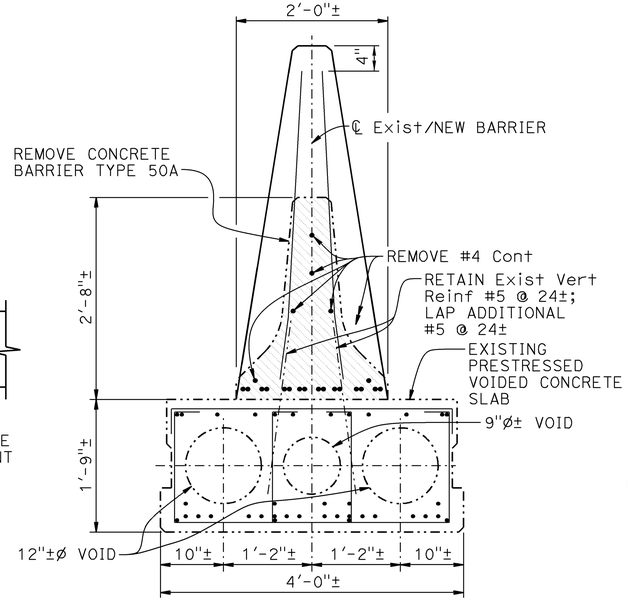
BRIDGE NUMBER	BRIDGE NAME	DECK THICKNESS
33-0272	HETCH HETCHY AQUEDUCT	1'-0¼"±
33-0273	CRANDALL CREEK BRIDGE	1'-1½"±
33-0240	ALAMEDA CREEK BRIDGE	1'-0"±
33-0245	WHIPPLE ROAD UC	1'-0"±
33-0246	ALQUIRE ROAD OVERHEAD	1'-0"±
33-0251	WARD CREEK BRIDGE	1'-0"±
33-0179	A STREET UC	6"±
33-0175	SAN LORENZO CREEK BRIDGE	6¼"±
33-0170	HESPERIAN BLVD UC	7"±
33-0176	LEWELLING BLVD UC	6¼"±
33-0172	S 880 - S238 CONNECTOR UC	6⅝"±
33-0756	ESTUDILLO CANAL BRIDGE	6"±
33-0100	SAN LEANDRO CREEK BRIDGE & OH	8"±



DOWEL SPACING AT EXPANSION JOINT

½" = 1'-0"

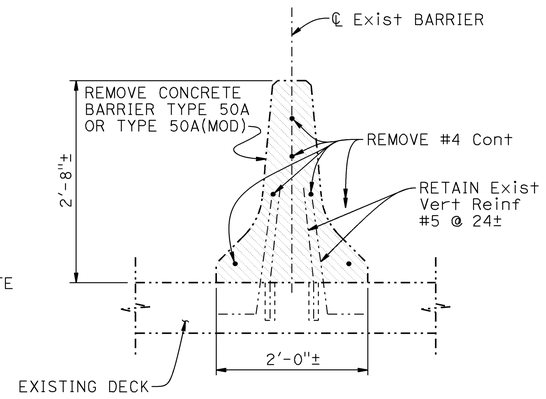
NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



CONCRETE BARRIER TYPE 60GA(Mod 2)

1" = 1'-0"

SEE NOTE 7



EXISTING CONCRETE BARRIER

1" = 1'-0"

NOTES:

1. Transverse expansion joints in concrete barrier shall match all deck joints.
2. If existing deck thickness is less than 7¾", depth of drilled hole equals depth of slab minus 1½".
3. Minor adjustments may be made in dowel spacing to clear main reinforcement.
4. Transitions to match adjacent "Type 60G" Barrier shall have minimum flare of 20:1 off the structure.
5. Barrier to be doweled on either side of deck joints, based on field conditions.
6. For Concrete Barrier Type 60GA (Mod) details not shown, see STANDARD PLAN A76D.
7. For location of Concrete Barrier Type 60GA (Mod2), see Estudillo Canal Bridge on "GENERAL PLAN NO. 4" sheet.
8. For location of existing Concrete Barrier Type 60A(Mod), see San Leandro Creek Bridge & Overhead on "GENERAL PLAN NO. 4" sheet.

LEGEND:
- —— Indicates new construction
- –·–· Indicates existing structure
- ▨ Indicates limits of remove existing concrete
- ∘ EXISTING REINFORCEMENT
- • NEW DRILL & BOND LOCATION

DESIGN	BY T. Sanderson	CHECKED D. Azzam	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. Various
DETAILS	BY G. Hallstrom	CHECKED D. Azzam			POST MILE Various
QUANTITIES	BY D. Azzam	CHECKED F. Chen			

MEDIAN BARRIER REPLACEMENT
CONCRETE BARRIER DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3621
PROJECT NUMBER & PHASE: 0414000421
CONTRACT NO.: 04-2J0704

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
12-02-14	03-14-15	03-13-15	03-06-15	5	7

FILE => 042j0704barrierdt05.dgn

USERNAME => S126849 DATE PLOTTED => 18-AUG-2015 TIME PLOTTED => 13:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	2.9/27.3	905	906

Mahfoud A. Licha 03-17-15
REGISTERED CIVIL ENGINEER DATE

6-22-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAHFOUD A. LICHA
No. C62816
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

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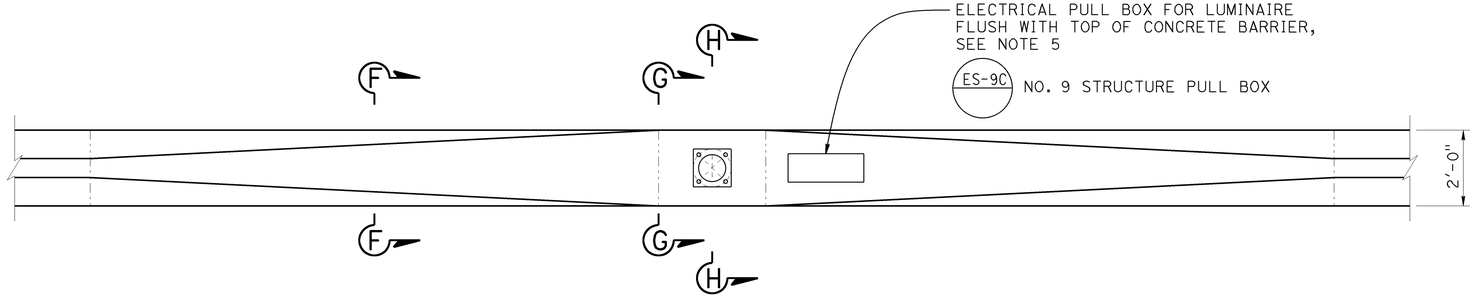
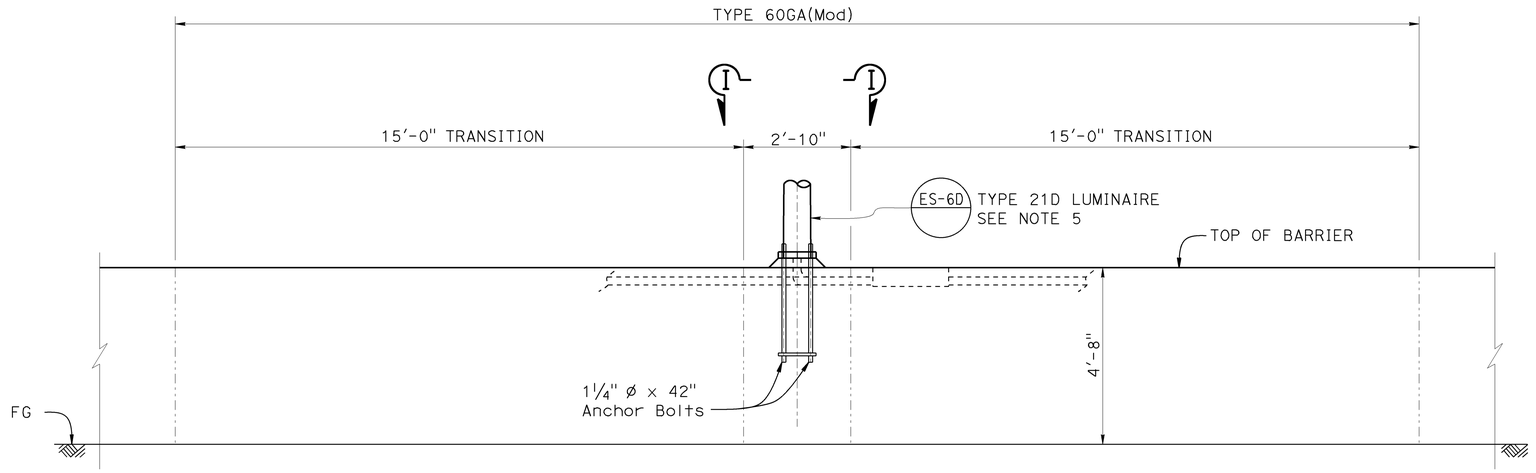


PART PLAN VIEW

NO SCALE

NOTE: BOTH SIDES SIMILAR



PART ELEVATION

NO SCALE

NOTE: BOTH SIDES SIMILAR

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:

1. For "SECTION F-F", "SECTION G-G", "SECTION H-H" and "SECTION I-I", see "LUMINAIRE BARRIER TRANSITION DETAILS" sheet.
2. For pole locations, see "GENERAL PLAN NO. 1", and "ROADWAY PLANS".
3. All steel must be galvanized after fabrication.
4. During pole erection the post shall be raked as necessary with the use of leveling nuts to provide a plumb pole axis.
5. For details not shown see "Roadway Plans".
6. For details not shown see "2010 Standard Plans" and "2010 Revised Standard Plans".

	BY	CHECKED
DESIGN	M. Licha	J. Datiles
DETAILS	G. Hallstrom	J. Datiles
QUANTITIES	D. Azzam	F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. Various
POST MILE Various

MEDIAN BARRIER REPLACEMENT
LUMINAIRE BARRIER TRANSITION

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3621
PROJECT NUMBER & PHASE: 0414000421
CONTRACT NO.: 04-2J0704

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-30-14	02-26-15	01-23-15	01-28-15	6	7

FILE => 042j0704barrierdt06.dgn

USERNAME => s126849 DATE PLOTTED => 18-AUG-2015 TIME PLOTTED => 13:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	2.9/27.3	906	906

Mahfoud A. Licha 03-17-15
REGISTERED CIVIL ENGINEER DATE

6-22-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAHFOUD A. LICHA
No. C62816
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

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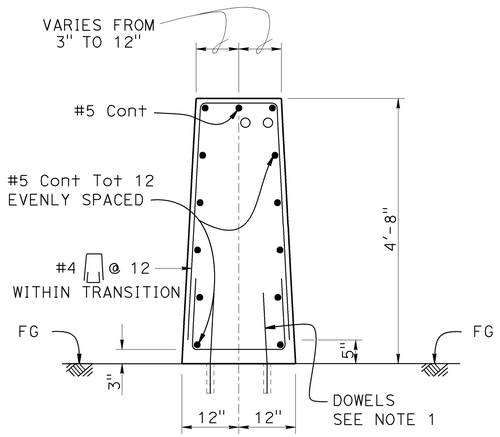
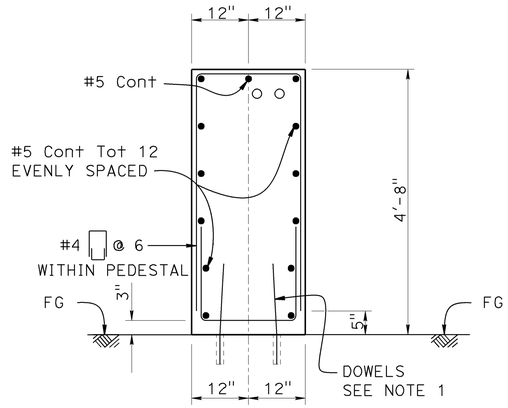
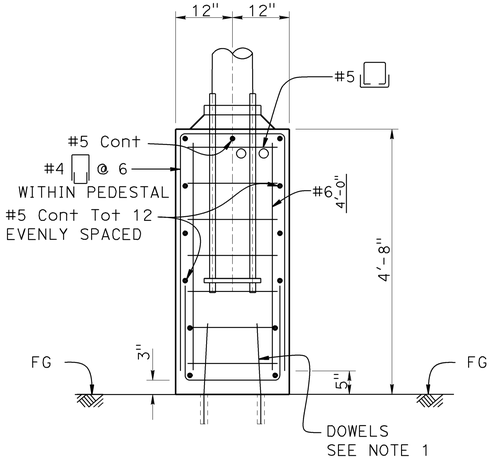


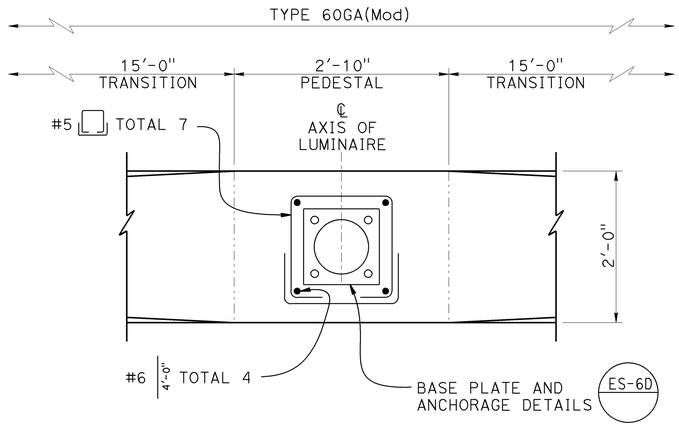
SECTION F-F
NO SCALE



SECTION G-G
NO SCALE



SECTION H-H
NO SCALE



SECTION I-I
NO SCALE

NOTES:

1. For Dowel size and spacing, see "CONCRETE BARRIER DETAILS" sheet.
2. For location of "SECTION F-F", "SECTION G-G", "SECTION H-H", and "SECTION I-I", see "LUMINAIRE BARRIER TRANSITION" sheet.
3. For conduit size and location, see "ROADWAY PLANS".

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M. Licha	CHECKED J. Datiles	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY G. Hallstrom	CHECKED J. Datiles	
QUANTITIES	BY D. Azzam	CHECKED F. Chen	

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. Various
POST MILE Various

MEDIAN BARRIER REPLACEMENT
LUMINAIRE BARRIER TRANSITION DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3621
PROJECT NUMBER & PHASE: 0414000421
CONTRACT NO.: 04-2J0704

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
12-30-14	02-26-15	01-29-15	02-20-15	7	7

FILE => 042j0704barrierdt07.dgn

USERNAME => s126649 DATE PLOTTED => 18-AUG-2015 TIME PLOTTED => 13:13