CITY OF MONTCLAIR

MONTE VISTA AVENUE

BETWEEN MISSION BOULEVARD AND BROOKS STREET

PROGRESS PRINT - NOT FOR CONSTRUCTION

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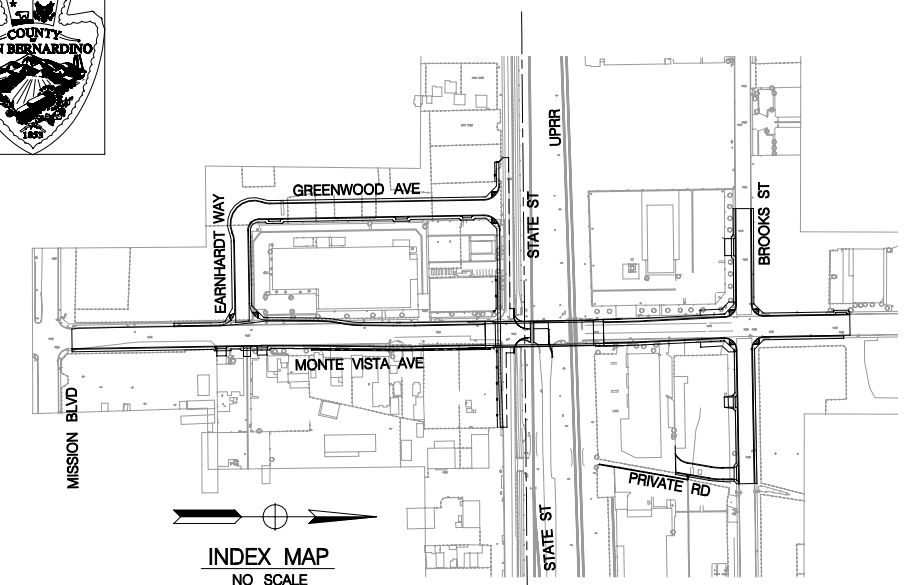
ABBREVIATIONS:

AC	ASPHALT CONCRETE
AB	AGGREGATE BASE
AP	ANGLE POINT
APP	APPROACH
AV	AIR RELEASE VALVE
BC	BEGIN OF CURVE
BCR	BEGIN OF CURVE RETURN
BF	BOTTOM OF FOOTING
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BACK OF WALK
CATV	CABLE TV
CB	CATCH BASIN
CF	CURB FACE
CL	CENTERLINE
CO	CLEAN OUT BOX
CONC	CONCRETE
DWG	DRAWING
DWY	DRIVEWAY
E	ELECTRIC
EC	END OF CURVE
ECR	END OF CURVE RETURN
EG	EXISTING GROUND
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EXP	EXPANSION
FC	FACE OF CURB
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FS	FINISHED SURFACE
FTG	FOOTING
GB	GRADE BREAK
GV	GAS VALVE
GM	GAS METER
G	GAS LINE
GUY	GUY WIRE
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
JT	JOINT
L	LENGTH
LP	LOW POINT
LA	LANDSCAPE AREA
LOC	LENGTH ON CURVE
MB	MAIL BOX
MH	MANHOLE
NG	NATURAL GROUND
PB	PULLBOX
PP	POWER POLE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
R	RADIUS
S	SLOPE
SW	SIDEWALK
SD	STORM DRAIN
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
T	TELEPHONE
TB	TOP OF BERM
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TF	TOP OF FOOTING
TG	TOP OF GRATE
TW	TOP OF WALL
TS	TRAFFIC SIGNAL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
W	WIDTH
WM	WATER METER
WV	WATER VALVE

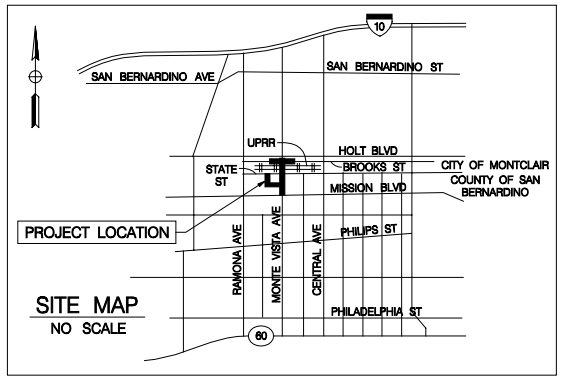


INDEX MAP
NO SCALE

COUNTY OF SAN BERNARDINO ← → CITY OF MONTCLAIR

LEGEND:

	CONTRUCT P.C.C. PAVEMENT
	REMOVE PAVING
	EXISTING STREET LIGHT
MH	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
(18" W)	EXISTING UTILITY LINE
	EXISTING UTILITY POLE
	DIRECTION OF DRAINAGE
(990)	EXISTING CONTOUR
(990)	DESIGN CONTOUR
	PROPOSED FIRE HYDRANT
	PROPOSED STREET LIGHT
MB	MAILBOX & SLAB
	PROPOSED MSE WALL
	PROPOSED RETAINING WALL
	PROPOSED MASONRY BLOCK WALL



SITE MAP
NO SCALE

UTILITY COMPANIES:

SCE
CONTACT: PHILIP LAMBERT (714) 796-9842

MONTE VISTA WATER DISTRICT
CONTACT: ROBERT TOCK (909) 624-0035

SOUTHERN CALIFORNIA GAS COMPANY
CONTACT: SAM MARTIN (909) 335-7847

MCI COMMUNICATIONS
CONTACT: ALLEN NAGEL (909) 225-9653

LEVEL 3
CONTACT: ERNEST MORRIS (619) 847-1076

VERIZON
CONTACT: FRANK GOMEZ (909) 469-6335

AGENCIES:

SBCFCO
CONTACT: RICHARD BRONSTRUP (909) 387-8130

KINDER MORGAN
CONTACT: DR. QUINN (714) 560-4400

UPRR
CONTACT: MICHAEL HEALD (402) 271-3719
(FIBEROPTICS DIVISION)

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION WITH ALL SUPPLEMENTS, CITY OF MONTCLAIR AND COUNTY OF SAN BERNARDINO STANDARD DRAWINGS AND SPECIFICATIONS, RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT STANDARD DRAWINGS (RCTC), LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS (LACDPW) STANDARD PLANS, CALTRANS STANDARD PLANS AND SPECIFICATIONS 2003 SHALL APPLY TO ALL BRIDGES, RETAINING WALLS, TRAFFIC SIGNALS AND STREET LIGHTING.
2. APPROVAL OF THIS PLAN BY THE CITY OF MONTCLAIR DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO START OF WORK.
3. A PERMIT FROM THE SAN BERNARDINO COUNTY, DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED PRIOR TO ANY ENCROACHMENT, CONSTRUCTION OR EXCAVATION WITHIN THE COUNTY RIGHTS OF WAY OR EASEMENTS.
4. INSPECTION SHALL BE BY THE CITY OF MONTCLAIR DEPARTMENT OF PUBLIC WORKS. ALL REQUESTS FOR INSPECTION SHALL BE MADE AT LEAST 24 HOURS IN ADVANCE OF THE PROPOSED CONSTRUCTION.
5. ALL JOIN LINES SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL WITH THE JOIN. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING, AND ALL BROKEN EDGES SHALL BE RECUT PRIOR TO PAVING.
6. DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN SUCH WARNINGS, SIGNS, STOP SIGNS, BARRICADES AND OTHER SAFETY MEASURES IN CONFORMANCE WITH THE W.A.T.C.H. MANUAL.
7. CONTRACTOR SHALL REINSTALL PAVEMENT MARKINGS, STRIPING AND SIGNING THAT HAS BEEN DISTURBED BY HIS OPERATIONS.
8. THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS ACCESSTO BUSINESS RESIDENCES FOR LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
9. TRAFFIC SIGNAL FUNCTIONS SHALL BE THE RESPONSIBILITY OF THE CITY. HOWEVER, THE CONTRACTOR IS REQUIRED TO GIVE 48-HOUR NOTICE PRIOR TO CONSTRUCTION THAT WILL DAMAGE OR AFFECT ANY BURIED TRAFFIC DETECTORS OR OTHER UNDERGROUND FACILITIES.
10. SHOULD ANY OF THE EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND AWAIT THE RELOCATION AND/OR PROVIDE AN ALTERNATE DESIGN.
11. THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC.
12. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED, AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NOT MORE THAN ONE CROSSING OR INTERSECTING STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME WITHOUT THE APPROVAL OF THE ENGINEER.
13. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH FENCES, BARRIERS, DIRECTIONAL SIGNS, LIGHTS, AND FLAGMEN AS ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC AT ALL TIMES OF ANY DANGEROUS CONDITIONS TO BE ENCOUNTERED AS A RESULT OF THE CONSTRUCTION WORK AND TO GIVE DIRECTIONS TO THE PUBLIC.
14. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED.
15. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY TO THE PUBLIC AND WORKMEN.
16. DUST SHALL BE CONTROLLED AT ALL TIMES BY APPROVED METHODS.
17. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.
18. FULL STREET CLOSURE WILL NOT BE PERMITTED UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER. 48 HOUR NOTICE WILL BE REQUIRED BY THE CITY AND AFFECTED PROPERTY OWNERS PRIOR TO ANY CLOSURE.
19. CAL-OSHA PERMITS SHALL BE REQUIRED FOR ANY TRENCH WORK OVER 5' IN DEPTH. EVIDENCE MUST BE PRESENTED TO THE CITY PRIOR TO CONSTRUCTION.
20. CONTRACTOR SHALL NOT OPEN MORE TRENCH THAN CAN BE COVERED UPON COMPLETION OF DAYS CONSTRUCTION ACTIVITIES. TRENCH LEFT OPEN DURING THE HOURS OF DARKNESS OR OVER A WEEKEND SHALL BE FENCED WITH 6 FOOT CHAIN LINK FENCING AND PROPERLY LIGHTED.
21. IMMEDIATELY FOLLOWING REMOVAL OF EXISTING PAVEMENT, DIKES OR CURBS AND/OR CUB AND GUTTER THE CONTRACTOR SHALL DILIGENTLY PURSUE THIS PORTION OF WORK UNTIL COMPLETION.
22. IF ASPHALT CONCRETE IS TO BE PLACED DIRECTLY ON SUB-GRADE OF ROAD OR DRAINAGE FACILITIES, A SOIL STERILANT REGISTERED BY THE E.P.A. FOR USE UNDER A.C. AND P.C.C SHALL BE UNIFORMLY APPLIED AT MANUFACTURER'S RECOMMENDED RATE FOR THE FULL PAVEMENT WIDTH PRIOR TO PAVING.
23. SAN BERNARDINO COUNTY, DEPARTMENT OF PUBLIC WORKS APPROVAL DOES NOT INCLUDE WATER OR SEWER SYSTEM OR ESTIMATE OF QUANTITIES.

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

BENCH MARK: ELEV: 957.72
BRASS DISK STAMPED NO. 701.12
1969 IN CURBSIDE STATE STREET UNDER CENTRAL AVENUE OVERCROSSING ABOUT 4.8' EAST OF A DOOR NEAR CENTER OF THE OVERCROSSING

Underground Service Alert
DIGALERT
Call: TOLL FREE
1-800
422-4133
TWO WORKING DATE BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER G.J. NASCIMENTO No. C 44871 Exp. 3/31/06 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

G.J. NASCIMENTO R.C.E. 44871
MY LICENSE EXPIRES 3-31-06
DATE
LAN ENG JOB NO. COFM0202

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY
ASSISTANT DIRECTOR DATE
CHIEF DESIGN ENGINEER DATE
DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2005
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
TITLE SHEET

CITY FILE NO
DRAWING NO
SHEET 1 OF 82 SHEETS

REMOVAL NOTES:

- A REMOVE CURB & GUTTER
- B REMOVE AC
- C RELOCATE
- D REMOVE
- E TO BE RELOCATED BY OTHERS
- F REMOVE & REPLACE BLOCK WALL & SALVAGE WROUGHT IRON FENCE FOR LATER USE
- G NOT USED
- H REMOVE & SALVAGE WROUGHT IRON FENCE, AUTOMATIC SLIDING GATE & ELECTRICAL EQUIPMENT
- I REMOVE BLOCK WALL
- J REMOVE CHAINLINK FENCE
- K REMOVE EXISTING CONCRETE HEADWALL
- L REMOVE PARKWAY DRAIN
- M REMOVE CONCRETE GUTTER
- N REMOVE 6" CURB
- O REMOVE CONCRETE
- P REMOVE EXISTING CATCH BASIN

STREET CONSTRUCTION NOTES

1. CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
2. CONSTRUCT 0.45' AC ON 0.80' AGGREGATE BASE
3. CONSTRUCT 0.25' AC ON NATIVE
4. CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110–1, TYPE C,
5. CONSTRUCT PCC CURB RAMP PER APWA STD. PLAN NO. 111–2, CASE A, TYPE 3 WITH RAISED TRUNCATED DOMES PER CALTRANS STD A88A
6. CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112–1
7. CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120–1, TYPE A2 AND/OR DETAILS ON SHEET 4
8. CONSTRUCT 8" AC DIKE PER PLAN AND PER APWA STD. PLAN NO. 120–1, D1–200
9. CONSTRUCT PCC CROSS GUTTER PER PLAN AND APWA STD PLAN NO. 122–1
10. ADJUST WATER VALVE TO GRADE
11. RECONSTRUCT OR ADJUST MANHOLE TO GRADE
12. CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
13. CONSTRUCT 4" PCC DRIVEWAY
14. TO BE RELOCATED BY SCE
15. PROTECT IN PLACE
16. REMOVE AND REPLACE BLOCK WALL IN KIND
17. INSTALL SALVAGED SLIDING WROUGHT IRON FENCE GATE AND ELECTRICAL EQUIPMENT
18. TO BE RELOCATED/REMOVED, SEE WATER PLANS
19. MSE WALL, SEE STRUCTURAL PLANS
20. CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3–7
21. RECONSTRUCT DRAINAGE INLET, SEE STORM DRAIN PLANS
22. RECONSTRUCT 4"x4" RECTANGULAR PIPE ROOF DRAIN PIPE IN KIND
23. CONSTRUCT PARKWAY DRAIN PER APWA STD. PLAN 151–1
24. CONSTRUCT 8' MASONRY BLOCK WALL
25. CONSTRUCT 6" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120–1 TYPE A2
26. CONSTRUCT 3' PCC SWALE PER DETAIL 1 ON SHEET 4
27. GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
28. CONSTRUCT PCC V–DITCH PER DETAIL 3 ON SHEET 4
29. CONSTRUCT PCC APRON PER DETAIL 4 ON SHEET 4
30. CONSTRUCT 6" PCC CURB PER APWA STD. PLAN NO. 120–1, TYPE A1
31. CONSTRUCT 8" PCC CURB PER APWA STD. PLAN NO. 120–1, TYPE A1
32. CONSTRUCT 8" AC CURB PER APWA STD. PLAN NO. 120–1, TYPE D1
33. INSTALL RAILING (TYPE K) PER CALTRANS STD T3
34. CONSTRUCT CONCRETE RIBBON GUTTER PER CITY OF MONTCLAIR STD 106
35. CONSTRUCT SAFTY LEDGE PER APWA PLAN 330–1
36. INSTALL CHAIN LINK FENCE PER APWA STD 600–1
37. REMOVE EXISTING & RECONSTRUCT CONCRETE BARRIER TO ACCOMMODATE POLE CONSTRUCTION PER DETAIL 5 ON SHEET 4
38. CONSTRUCT CONCRETE BARRIER TYPE 736 CALTRANS STD. B11–56
39. REMODEL AND/OR RELOCATE RR CROSSING GATE BY UPRR
40. CONSTRUCT RETAINING WALL, SEE SHEET 14
41. CONSTRUCT CATCH BASIN PER APWA STD PLAN 300–2
42. CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313–1, CASE E

SEWER CONSTRUCTION NOTES

1. 10" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
2. 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
3. 8" DUCTILE IRON PIPE SANITARY SEWER WITH MECHANICAL JOINTS
4. 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200–2.
5. 4.0' DIAMETER PRECAST CONCRETE DROP SEWER MANHOLE PER APWA STD. PLAN 202–0.
6. 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210
7. HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS. PER APWA STD. PLAN 222–1, PROFILE TYPE B.
8. HOUSE CONNECTION SANITARY SEWER, 6" DUCTILE IRON PIPE WITH MECHANICAL JOINTS
9. 6" PVC PIPE, SDR–35, ON–SITE SEWER LATERAL.
10. REMODEL EXISTING SEWER MANHOLE PER SECTION 306–6, REMODELING EXISTING SEWER FACILITIES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
11. ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205–1, HEIGHT (H) AS SHOWN ON PLANS.
12. CLEANOUT PER APWA STD. PLAN 222–1, PROFILE TYPE B.
13. BREAKING INTO EXISTING MANHOLES PER APWA STD. PLAN 208–1.
14. 18" DIAMETER STEEL CASING, 0.375 WALL THICKNESS, SEAL ENDS WITH MODEL W. WRAP AROUND SPLIT STYLE END SEAL, CALPICO INC. OR APPROVED EQUAL, EACH END.
15. SUPPORT 6" SEWER LATERAL IN STEEL CASING AT EACH JOINT, ENDS OF CASING, AND MIDPOINTS, NOT TO EXCEED 10' CENTERS WITH STAINLESS STEEL CASING INSULATOR, MINIMUM 6" WIDE, CALPICO MODEL M–6–SS OR APPROVED EQUAL.
16. CONNECT HOUSE CONNECTION SEWER LATERAL TO EXISTING MANHOLE OR LATERAL.
17. SUPPORT 8" DUCTILE IRON PIPE IN STEEL CASING AT EACH JOINT, ENDS OF CASING, AND MIDPOINTS, NOT TO EXCEED 10' CENTERS WITH STAINLESS STEEL CASING INSULATOR, MINIMUM 6" WIDE, CALPICO MODEL M–6–SS OR APPROVED EQUAL.

REMOVALS

- A REMOVE SEWER MANHOLE PER SECTION 306–5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- B ABANDON SEWER LINE PER SECTION 306–5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- C SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.

NOTICE TO CONTRACTOR

- D LOCATION OF EXISTING ON–SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION AND ELEVATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.
- E REPLACE DISTURBED LANDSCAPE AND REPAIR IRRIGATION LINES DAMAGED BY SEWER LATERAL CONSTRUCTION.
- F BLANKET TCE TO ENTER PRIVATE PROPERTY TO LOCATE POINT OF CONNECTION, MODIFY AND RELOCATE EXISTING SEWER LATERAL SERVICE.

WATER CONSTRUCTION NOTES

1. INSTALL 12" X 6" HOT TAP WITH 6" VALVE
2. CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
3. CONSTRUCT 8" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
4. CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
5. CONSTRUCT 1" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD–5
6. CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD–6
7. CONSTRUCT 8" PRESSURE REDUCING VALVE SYSTEM PER DETAIL ON PLANS
8. CONSTRUCT 4" STEEL PIPE GUARD POST FILLED WITH CONCRETE PER STD. DWG. MVWD–20
9. CONNECT TO EXISTING WATERLINE – LAP WELD
10. INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG. NO. MVWD–11
11. INSTALL 12" GATE VALVE; FLANGED
12. INSTALL 8" GATE VALVE; FLANGED
13. INSTALL 6" GATE VALVE; FLANGED
14. NOT USED
15. INSTALL 8" X 8" X 6" TEE; FLANGED – WELDED
16. NOT USED
17. NOT USED
18. NOT USED
19. INSTALL 12" X 12" X 12" TEE; FLANGED – WELDED
20. INSTALL 12" X 12" X 6" TEE; FLANGED – WELDED
21. INSTALL 12" – 90° BEND; WELDED
22. INSTALL 12" – 45° BEND; WELDED
23. INSTALL 8" – 11.25° BEND; WELDED
24. INSTALL 6" – 90° BEND; WELDED
25. INSTALL 8" BLIND FLANGE; FLANGED
26. INSTALL 12" BLIND FLANGE; FLANGED
27. SLIP–ON WELD FLANGE
28. INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
29. INSTALL 2 1/2" X 2 1/2" X 4" FIRE DEPARTMENT CONNECTION WITH POST INDICATOR AND VALVES
30. LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 1" COPPER WATER SERVICE LATERAL AND CONNECT TO EXISTING ON–SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD–6
31. LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON–SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD–6
32. LOCATE EXISTING FIRE SERVICE; CONSTRUCT FIRE SERVICE AND CONNECT LINE TO EXISTING FIRE SERVICE LINE PER STD. DWG. NO. MVWD–10
33. NOT USED
34. NOT USED
35. SALVAGE EXISTING FIRE HYDRANT. RE–INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MVWD–11
36. SALVAGE EXISTING 4" AIR RELEASE VALVE AND ABOVE GROUND APPURTANCES; RE–INSTALL WITH NEW PIPING AND FITTINGS BEHIND CURB, EXTEND LATERAL FROM VALVE AND ADJUST RISER AS REQUIRED TO RELOCATE PER STD. DWG. NO. MVWD–15
37. SALVAGE EXISTING 6" BLOW–OFF ASSEMBLY AND ABOVE GROUND APPURTANCES; RE–INSTALL WITH NEW PIPING AND FITTINGS BEHIND CURB, EXTEND LATERAL FROM VALVE AND ADJUST RISER AS REQUIRED TO RELOCATE PER STD. DWG. NO. MVWD–16
38. INSTALL WATER METER & METER BOX; RE–INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MVWD–5 OR MVWD–6
39. INSTALL 6" DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE PER STD. DWG. NO. MVWD–9 AND MVWD–10
40. SALVAGE AND RELOCATE EXISTING 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY AND FIRE DEPARTMENT CONNECTION (ABOVE GROUND INSTALLATION) MODIFY AND RE–INSTALL WITH NEW PIPING AND FITTINGS PER PLANS
41. NOT USED
42. ADJUST EXISTING VALVE CAN AND COVER TO FINISH GRADE
43. SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".
44. INSTALL 6" BLOW–OFF INSTALLATION PER STD. DWG. MVWD–16
45. INSTALL 4" AIR VALVE INSTALLATION PER STD. DWG. MVWD–15
46. 12" X 8" CML&C HOT TAP; BY MONTE VISTA WATER DISTRICT
47. NOT USED
48. INSTALL 2" AIR VALVE, INSTALLATION PER STD. DWG. MVWD–14
49. INSTALL 8"X8"X4" TEE–WELDED

REMOVAL NOTES

- A ABANDON WATERLINE AND APPURTANCES PER SECTION 306–5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
- B REMOVE INTERFERING PORTIONS OF EXISTING WATERLINE AND APPURTENANCES
- C REMOVE EXISTING 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY (BELOW GROUND INSTALLATION)

NOTICE TO CONTRACTOR

- D CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS
- E CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND APPURTANCES NEEDED TO RELOCATE AND MODIFY EXISTING DOUBLE DETECTOR CHECK VALVE ASSEMBLY BEFORE ORDERING MATERIALS
- F BLANKET TCE TO ENTER PRIVATE PROPERTY TO LOCATE POINT OF CONNECTION, MODIFY AND RELOCATE EXISTING WATER SERVICES.

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 72" RCP
2. CONSTRUCT 48" RCP
3. CONSTRUCT 36" RCP
4. CONSTRUCT 24" RCP
5. CONSTRUCT 18" RCP
6. CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332–1
7. CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 331–2
8. CONSTRUCT MANHOLE PER APWA STD PLAN 321–1
9. INSTALL 18" x 18" x 18" PREFAB RCP TEE
10. NOT USED
11. CONSTRUCT 30" RCP
12. CONSTRUCT CONCRETE OUTLET STRUCTURE PER S.B.C.F.C.D. STD PLAN 209
13. CONSTRUCT TRANSITION STRUCTURE PER APWA STD PLAN 340–1
14. CONSTRUCT CONCRETE CAP OVER EXISTING 60" RCP PER DETAIL "A" ON SHEET 26
15. NOT USED
16. CONSTRUCT PIPE CLOSURE–TYPE "A" PER S.B.C.F.C.D. STD PLAN 176
17. CONSTRUCT CONCRETE COLLAR PER APWA STD PLAN 380–2
18. CONSTRUCT CONCRETE V–DITCH PER O.C.E.M.A. STD PLAN 1321
19. CONNECT TO EXISTING STORM DRAIN PIPE, REMOVE ANY PIPE CLOSURES
20. CONSTRUCT GRATING CATCH BASIN PER APWA STD PLAN 304–2
21. CONSTRUCT GRATING CATCH BASIN PER APWA STD PLAN 305–2
22. CONSTRUCT MANHOLE PER APWA STD PLAN 320–1
23. REMOVE EXISTING CATCH BASIN
24. CONSTRUCT 3' X 5' RCB (1500D)
25. CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 333–1
26. CONSTRUCT TRANSITION STRUCTURE PER APWA STD PLAN 342–1
27. CONSTRUCT 3'x3' PRECAST CATCH BASIN W/TRAFFIC GRATE. BROOKS PRODUCT OR APPROVED EQUAL
28. CONSTRUCT 2' x 2' BROOKS GRATED INLET W/TRAFFIC GRATE
29. SAWCUT AND REMOVE EXIST 3' RECTANGULAR PCC GUTTER TO ACCOMMODATE DRAINAGE INLET
30. INSTALL 5" PVC (SCH 40)
31. CONSTRUCT CONCRETE ENCASING
32. CONSTRUCT 3' RIBBON GUTTER PER CITY OF MONTCLAIR STD 106
33. CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313–1, CASE B
34. CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 333–1
35. CONSTRUCT 4' x 4' BROOKS GRATED INLET W/TRAFFIC GRATE
36. CONSTRUCT 0.25' AC LINING
37. CONSTRUCT RCB HEADWAL, WINGWALL TYPE "D" PER CALTRANS STD PLAN D82, D84
38. CONSTRUCT MANHOLE PER APWA STD PLAN 323–1
39. CONSTRUCT SAFTY LEDGE PER APWA PLAN 330–1
40. CONSTRUCT CONCRETE BULK HEAD PER RCFC STD DRAWING M816
41. CONSTRUCT PIPE INLET TYPE GCP PER CALTRANS STD PLAN D75B
42. CONSTRUCT CONCRETE ARCH AND BEDDING FOR PROP 24" RCP

SIGNING AND STRIPING CONSTRUCTION NOTES

1. INSTALL DETAIL 8 – LANE LINES PER CALTRANS STD. PLAN A20A
2. INSTALL DETAIL 21 –DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A
3. INSTALL DETAIL 38 – 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D
4. INSTALL DETAIL 28 – DOUBLE LEFT EDGELINE PER CALTRANS STD. PLAN A20B
5. INSTALL 4" SOLID WHITE LINE PER CALTRANS STD. PLAN A20A
6. INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E
7. INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A

7A. INSTALL TYPE II (T & L) ARROW MARKING PER CALTRANS STD. PLAN A24B

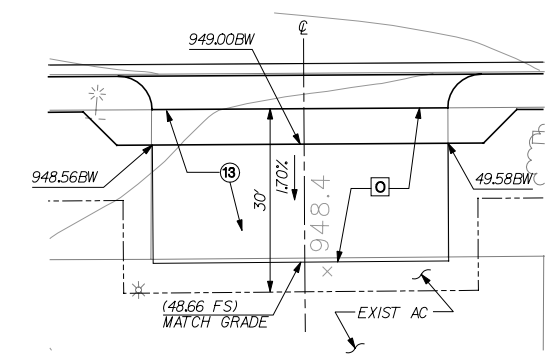
8. INSTALL TYPE IV (R) ARROW MARKING PER CALTRANS STD. PLAN A24A
9. INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN A24B–A24E
10. REMOVE EXISTING CONFLICTING STRIPING AND/OR PAVEMENT MARKINGS
11. INSTALL DETAIL 31 – TWO–WAY LEFT TURN LANES PER CALTRANS STD. PLAN A20B
12. NOT USED
13. NOT USED
14. NOT USED
15. NOT USED
16. NOT USED
17. NOT USED
18. INSTALL RED CURB DISTANCE AS SHOWN ON PLAN

STREET LIGHTING CONSTRUCTION NOTES

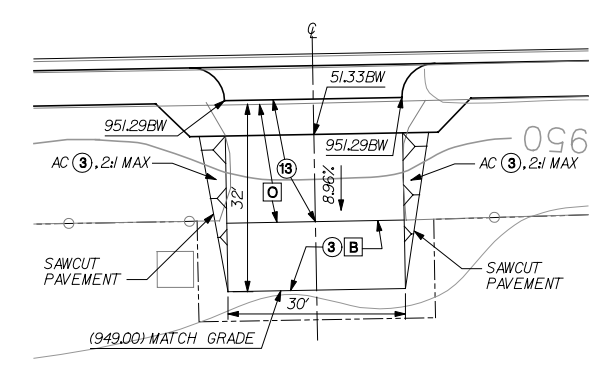
1. INSTALL 1"C, 2#8
2. INSTALL 70W MH SOFFIT LIGHT WITH NO.7 PULL BOX PER CALTRANS STD. PLAN ES–9E. LOCATE SOFFIT LIGHT PER PLAN & SECTION.
3. INSTALL 2"C, 2#8, AND NO.5 PULL BOX AS SHOWN ON PLAN FOR TYPE 15 STREET LIGHT (SEE STD. PLAN ES–9D)
4. EXPANSION /DEFLECTION FITTING IS REQUIRED AT ALL JOINTS (SEE STD. PLAN ES–9B DETAIL X)
5. INSTALL 2" CONDUIT, PULL ROPE AND PULL BOXES FOR FUTURE IRRIGATION CONTROL (SEE STD. PLAN ES–9B). INSTALL 2" CONDUIT, 12PR#19 SIC, SEE TRAFFIC SIGNAL PLAN FOR DETAIL
6. INSTALL 2" CONDUIT, 12PR#19 SIC, SEE TRAFFIC SIGNAL FOR DETAIL
7. INSTALL 120/240 V TYPE III–BF SERVICE ENCLOSURE WITH TYPE V PHOTO ELECTRIC CONTROL FOR CITY OWNED / MAINTAINED STREET LIGHTS: METER #1 WITH 100 A MAIN BREAKER TYPE LS–3 I–30 A – 240 V – 2P CB FOR CITY OF MONTCLAIR STREET LIGHTING SYSTEM
8. AMERON STEEL POLES (A258) SHALL BE MOUNTED ON THE TYPE 26 BARRIER TO BE MAINTAILED BY THE CITY OF MONTCLAIR
9. CONDUIT PASS THROUGH BRIDGE GIRDER(S) PER CALTRANS STD. PLAN ES–9B DETAIL S
10. INSTALL 2–2" CONDUIT, PULL ROPE AND PULL BOXES FOR FUTURE COMMUNICATIONS WIRE & IRRIGATION CONTROL (SEE STD. PLAN ES–9B)
11. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL–ROPE AND 3" PVC SCHEDULE 80 RISER SWEEP FROM P.P. #18201252 TO THE SERVICE ENCLOSURE PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.

TRAFFIC SIGNAL CONSTRUCTION NOTES

1. FUNISH AND INSTALL TYPE 170 CONTROLLER ASSEMBLY, INCLUDING TYPE "R" CABINET, CLARY SP1000CR BATTERY BACK–UP SYSTEM AND APPURTENANT EQUIPMENT (SEE SPECIAL PROVISIONS). CONTROLLER CABINET AND FOUNDATION TO BE INSTALLED PER CALTRANS STD. PLAN ES–3C. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION AS SHOWN ON THE PLAN. THE CONTROLLER ASSEMBLY AND BATTERY BACK–UP SYSTEM SHALL BE TESTED BY REPUBLIC ELECTRIC PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.
2. FURNISH AND INSTALL 120/240 TYPE III–BF SIGNAL AND LIGHTING SERVICE AND FOUNDATION PER CALTRANS STD. PLAN ES–2E. INSTALL 1P–100A MAIN BREAKER, 1P–50A SIGNAL BREAKER, 1P–30A LIGHTING BREAKER. SIGNAL CIRCUIT SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.
3. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL–ROPE AND 3"PVC SCHEDULE 80 RISER WITH 36" SWEEP FROM P.P. #427365E TO THE SERVICE ENCLOSURE PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVACE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT (714)796–9842. EXACT
4. FURNISH AND INSTALL VEHICLE DETECTION SYSTEM. CAMERA SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
5. FURNISH AND INSTALL DOUBLE SIDED REFLECTIVE STREET NAME SIGNS PER DETAILS SHOWN ON PLAN, SIGN PANEL SHALL BE ALUMINUM BASE METAL SURFACED WITH V.I.P RELECTIVE SHEETING
6. FURNISH AND INSTALL SIGNS ON MAST ARM OR POLE AS SHOWN. SIGN(S) SHALL BE ALUMINUM–BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
7. FUNISH AND INSTALL TYPE "V" PHOTOELECTRIC CONTROL (LIGHTING TYPE) AT SERVICE CABINET
8. FURNISH AND INSTALL NO.9 PULL BOX PER CALTRANS STD. PLAN EX–9C, AND CUSTOMIZED FOUNDATIONS FOR THE TYPE 1–A STANDARD PER CALTRANS STD. PLAN ES–7B AND DETAIL "D" ABOVE HEREON.
9. FURNISH AND INSTALL 3M OPTICOM MODEL 711 EMERGENCY VICLE PREEMPTION (E.V.P.) SYSTEM. THE SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION AND DETAIL "Z" HEREON.



DRIVEWAY @ STA 27+64
BROOKS STREET



DRIVEWAY @ STA 32+22
BROOKS STREET

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1–800 422–4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/07 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1867 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12–31–07
DATE

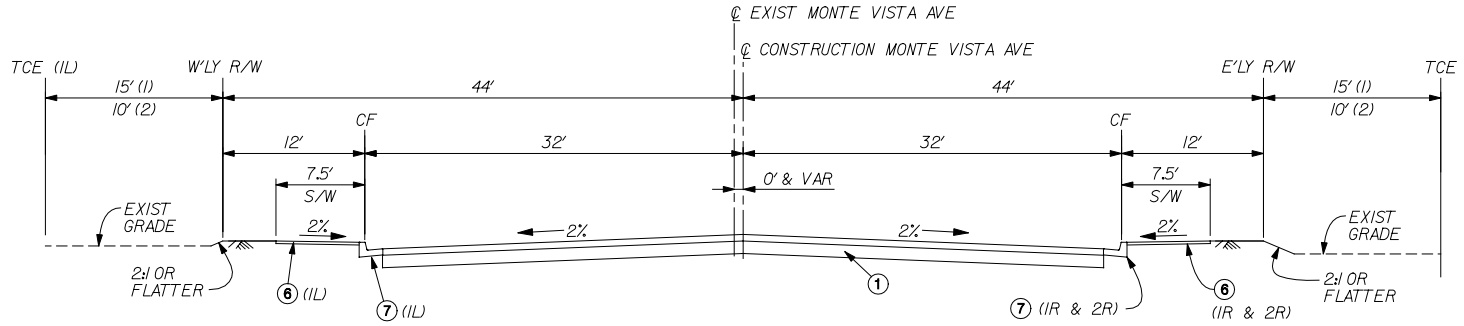
LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO.
MY LICENSE EXPIRES
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
CONSTRUCTION NOTES

CITY FILE NO
DRAWING NO
SHEET 2 OF 82 SHEETS



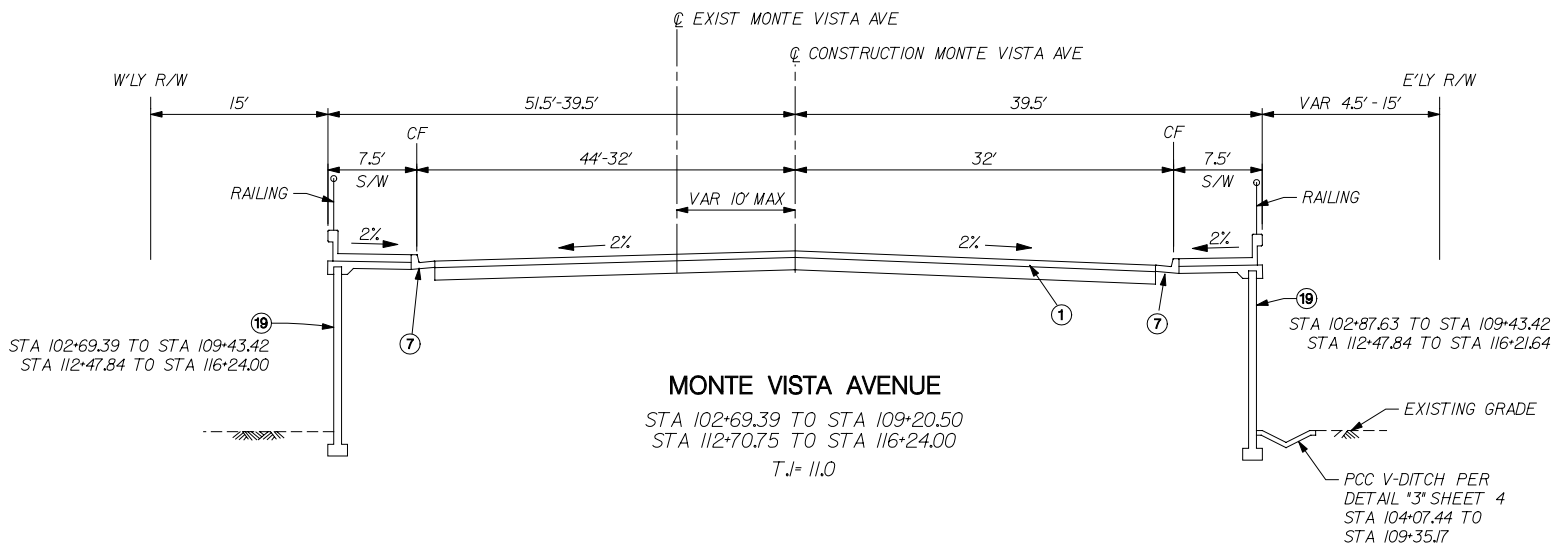
MONTE VISTA AVENUE

(IL) BEG STA 100+00.00

(1) STA 96+97.13 TO STA 102+69.39
(2) STA 118+50.00 TO STA 120+00.00

(IR) END STA 102+87.63
(2R) END STA 119+81.34

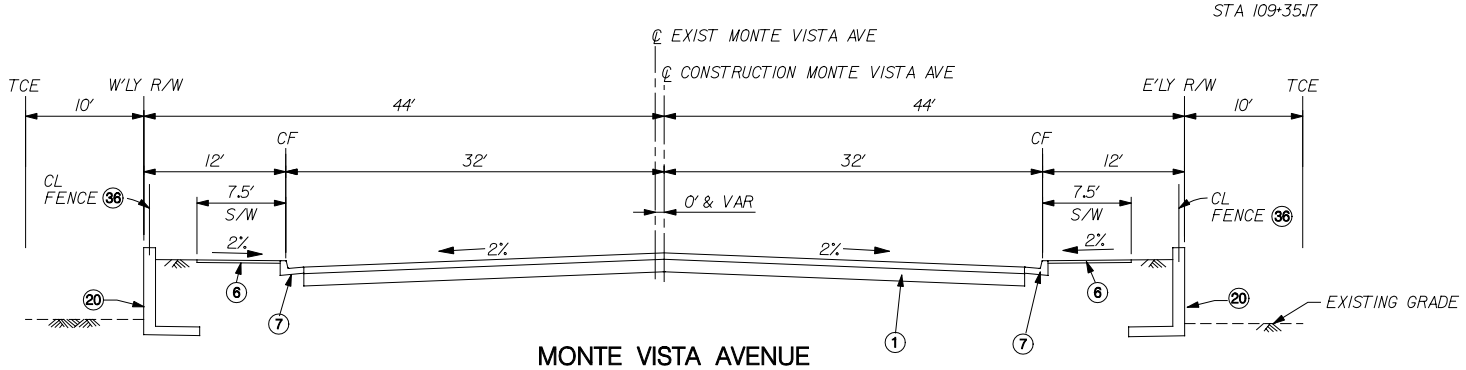
T.I= 11.0



MONTE VISTA AVENUE

STA 102+69.39 TO STA 109+20.50
STA 112+70.75 TO STA 116+24.00

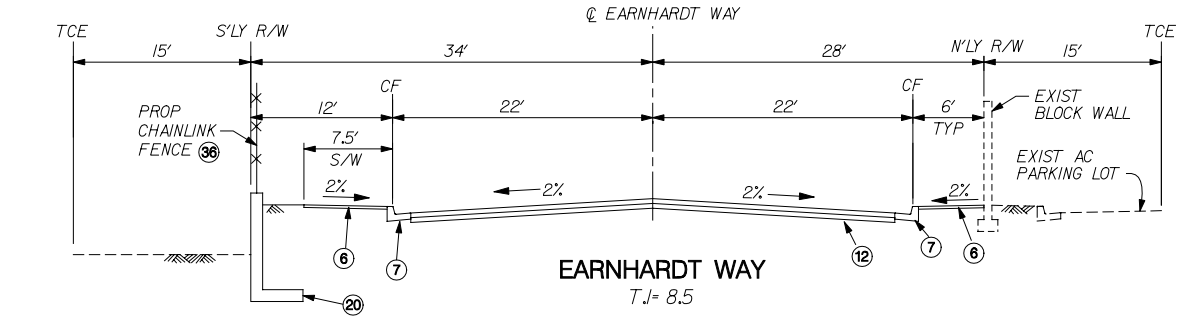
T.I= 11.0



MONTE VISTA AVENUE

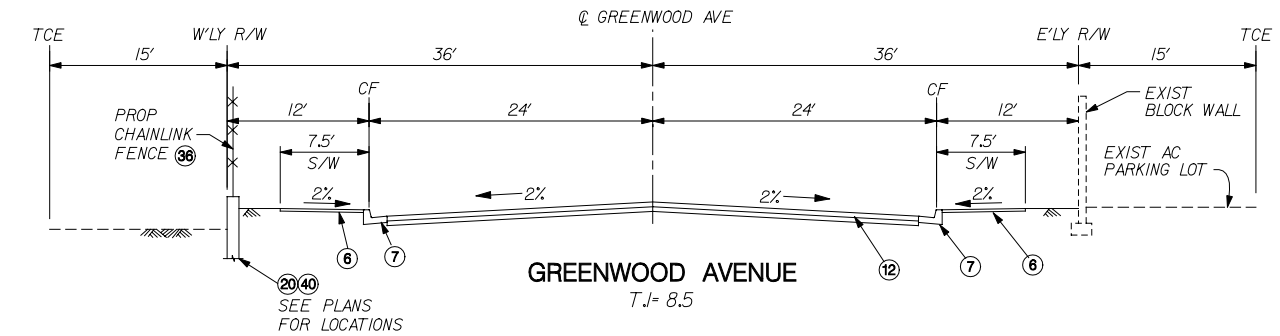
STA 116+24.00 TO STA 118+50.00

T.I= 11.0



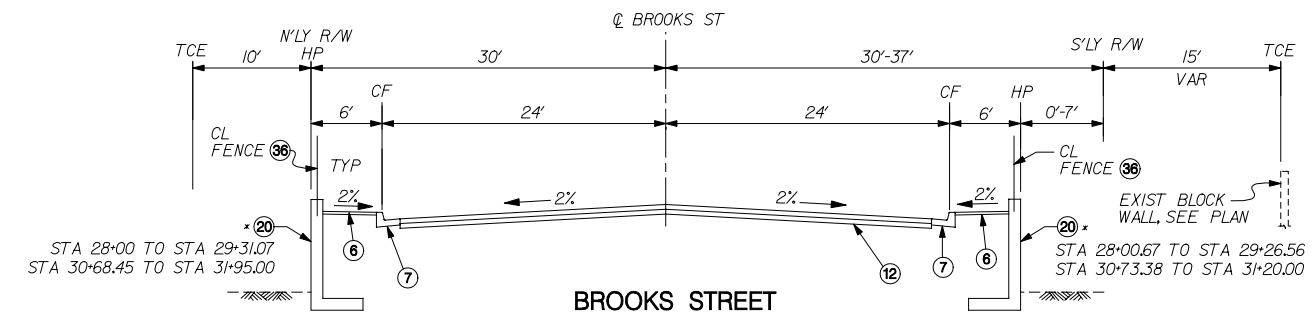
EARNHARDT WAY

T.I= 8.5



GREENWOOD AVENUE

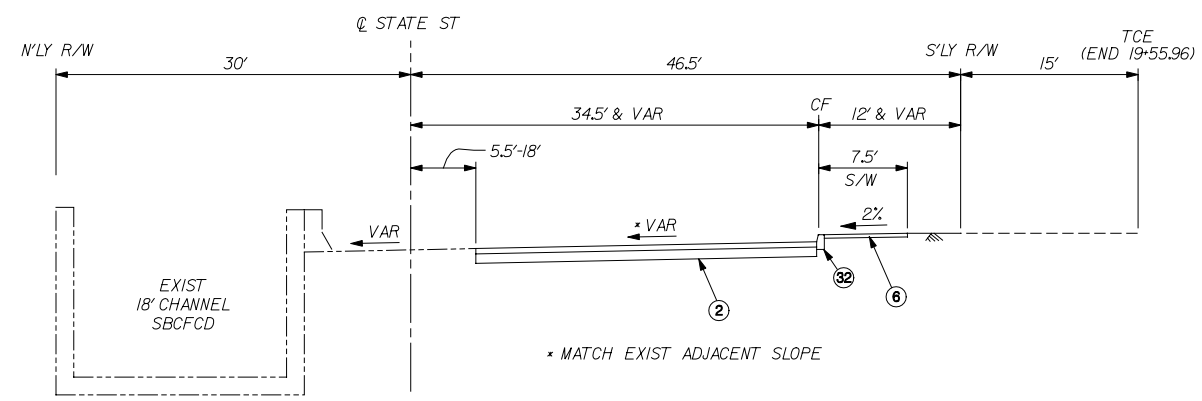
T.I= 8.5



BROOKS STREET

STA 26+50 TO STA 34+64.20

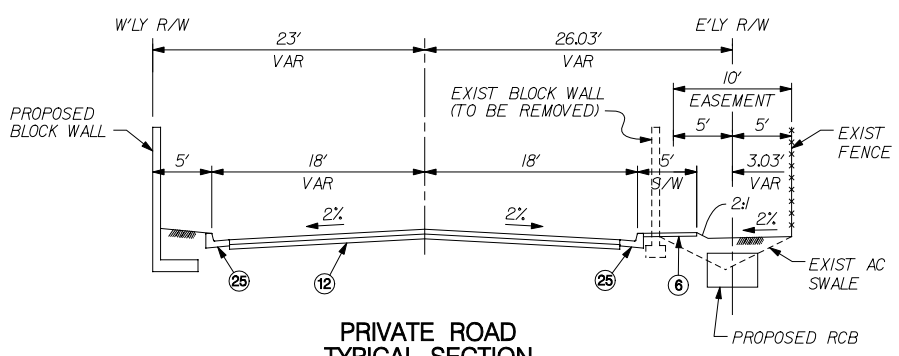
* 2:1 SLOPE FROM HP TO OG WHERE THERE IS NO RW.



STATE STREET

STA 14+87.12 TO STA 22+85.00

T.I=9.0



PRIVATE ROAD TYPICAL SECTION

NOTE:
SEE "STREET CONSTRUCTION NOTES", SHEET 2 FOR DENOTATIONS OF CONSTRUCTION NO.

ABBREVIATION:

TCE = TEMPORARY CONSTRUCTION EASEMENT

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DIG ALERT
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/07 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-07

DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

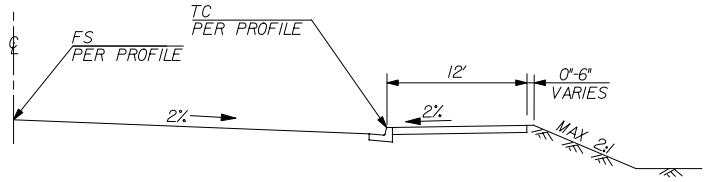
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

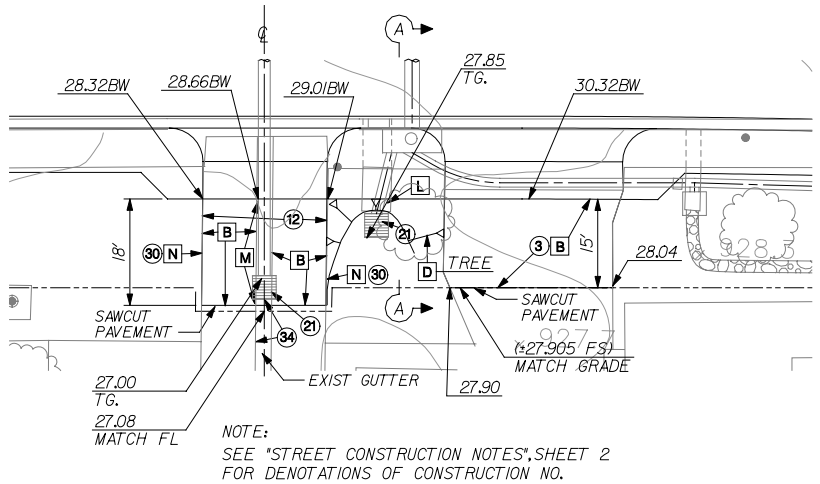
MONTE VISTA AVENUE
GRADE SEPARATION

TYPICAL SECTIONS

CITY FILE NO
DRAWING NO
SHEET 3 OF 82 SHEETS

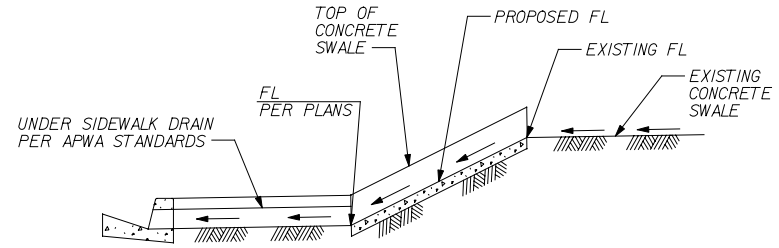


SECTION A-A



DRIVEWAY
MONTE VISTA AVENUE
@ STA 102+14.50

NO SCALE



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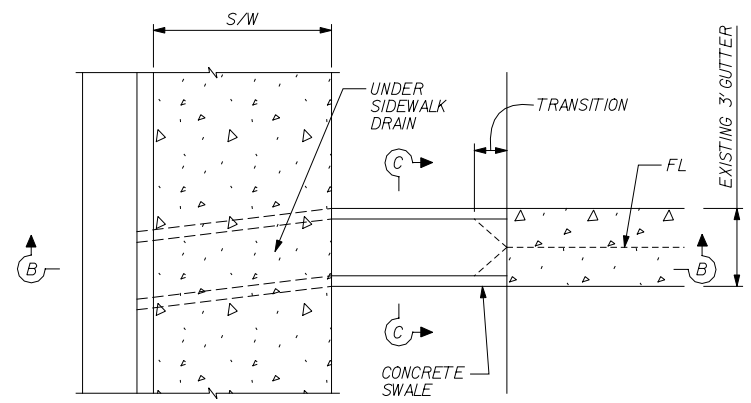
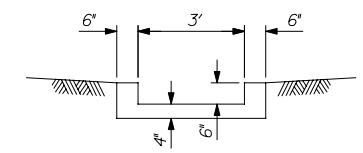
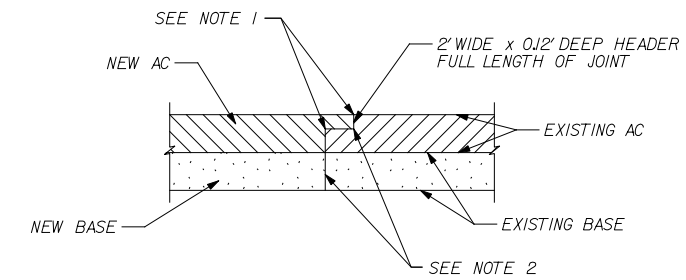


DETAIL 1
3' PCC RECTANGULAR CONCRETE SWALE

NO SCALE



SECTION C-C

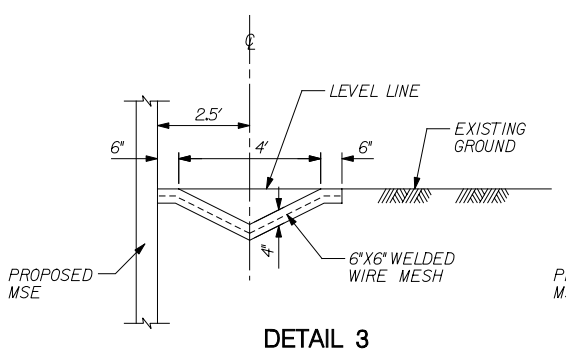


NOTES:

1. OVERLAY HEADER AREA TO MATCH NEW AND EXISTING AC SURFACES.
2. TACK COAT ENTIRE SURFACE WITH AR 1000 PAVING ASPHALT AT AN APPROXIMATE RATE OF 0.05 GALLON PER SQUARE YARD OR GRADE SS-1H EMULSIFIED ASPHALT AT AN APPROXIMATE RATE 0.05 TO 0.10 GALLON PER SQUARE YARD SHALL BE UNIFORMLY APPLIED UPON THE EXISTING PAVEMENT PRECEEDING THE PLACEMENT OF THE AC THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL OR DUST WHEN TACK COAT IS APPLIED.

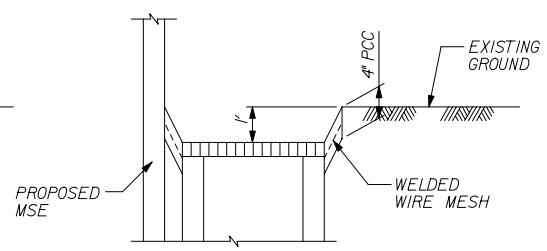
DETAIL 2
PAVEMENT JOINT DETAIL
FOR STREET CONST NOTE (27)

NO SCALE

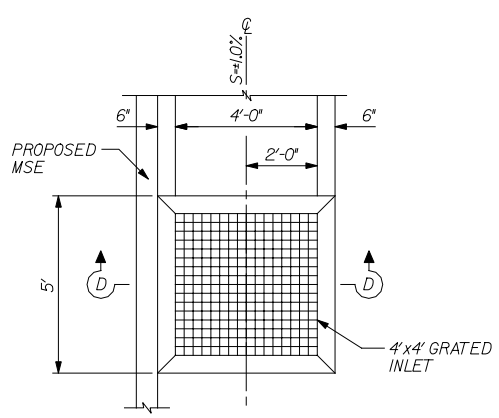


DETAIL 3
PCC V-DITCH

NO SCALE

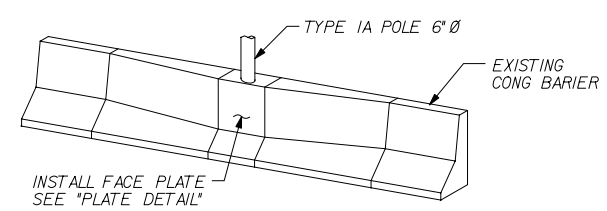


SECTION D-D

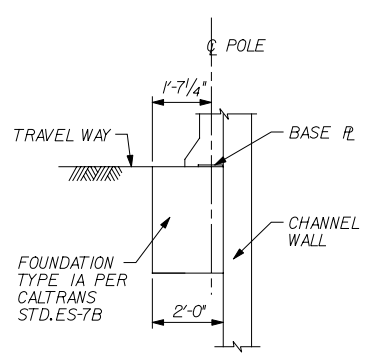


DETAIL 4
INLET APRON DETAIL

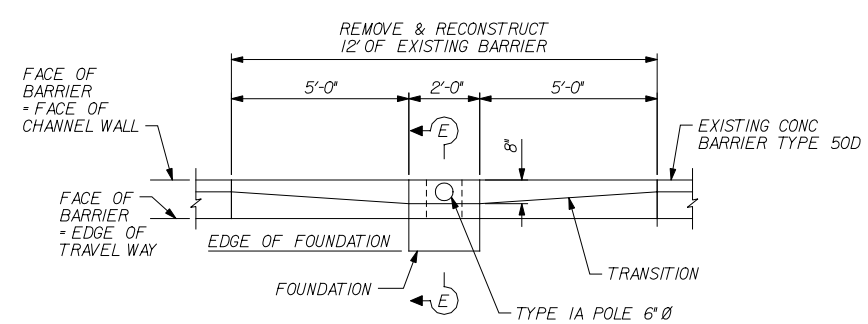
NO SCALE



ISOMETRIC ELEVATION



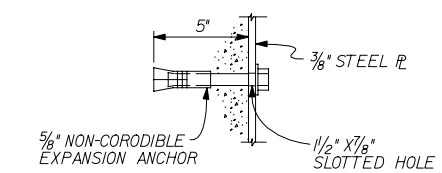
SECTION E-E



PLAN

DETAIL 5
CONCRETE BARRIER @ POLE FOUNDATION

NO SCALE



BOLT DETAIL

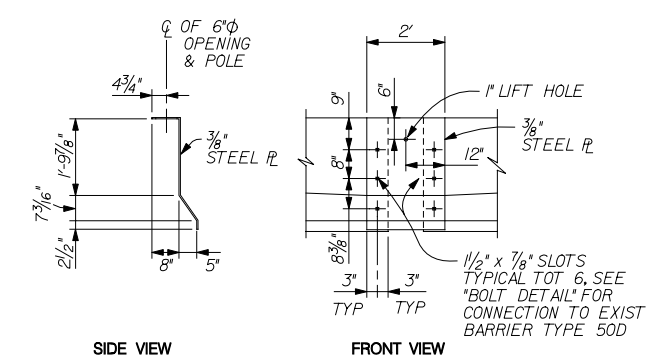


PLATE DETAIL

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DATE RECEIVED
Call: TOLL FREE
1-800
422-4133
TWO WORKING DATE BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
ERIC S. GIROD
No. C 57288
Exp. 12/31/07
CIVIL
STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-07
DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

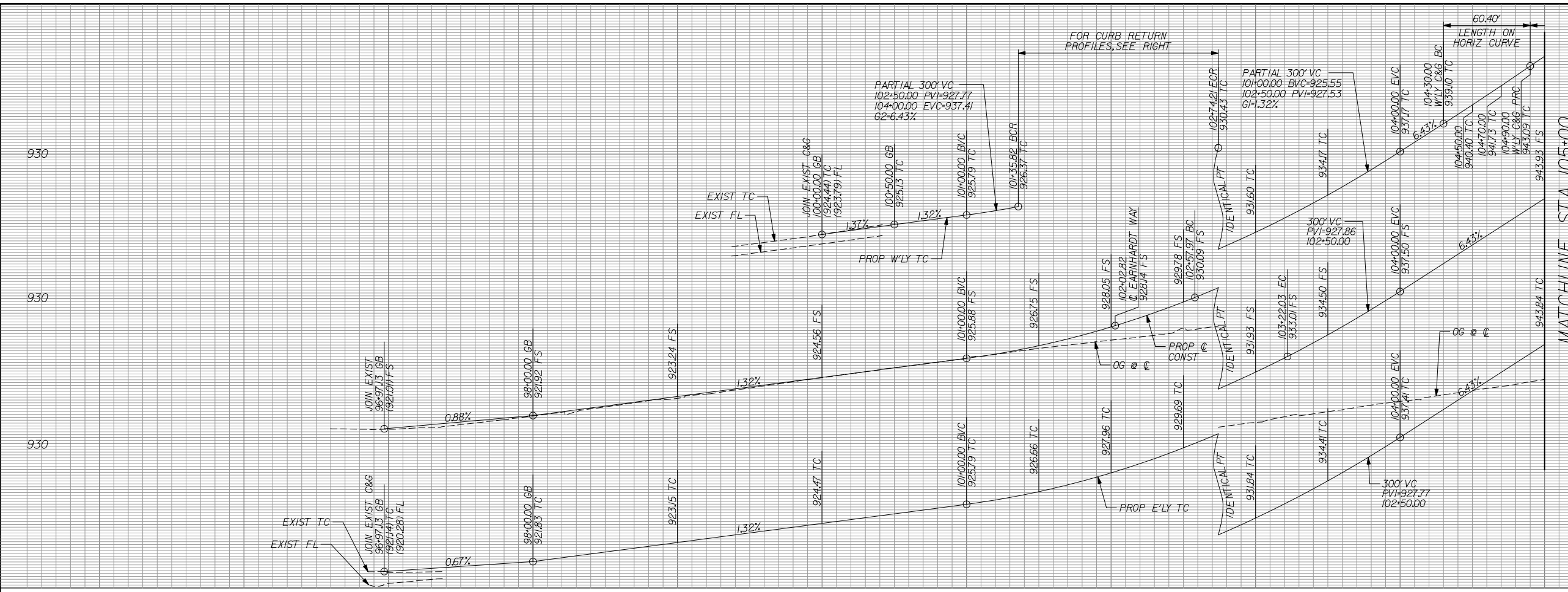
APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

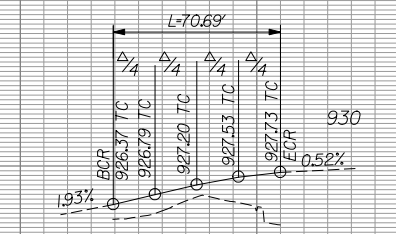
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

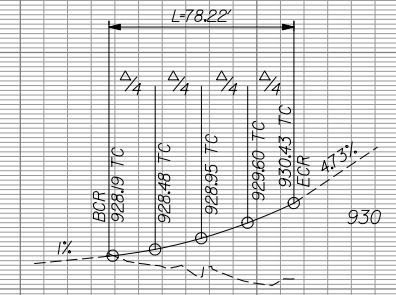
DETAIL SHEET

CITY FILE NO
DRAWING NO
SHEET 4 OF 82 SHEETS



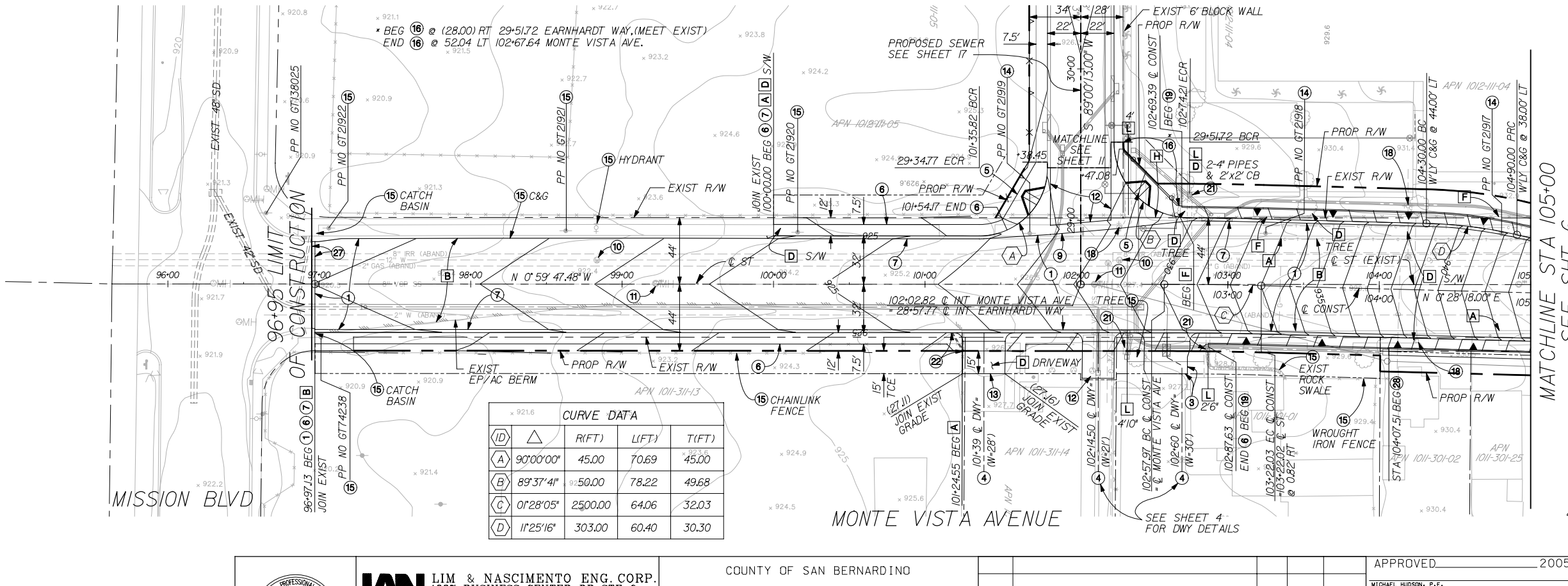


SOUTHWEST CURB RETURN PROFILE
MONTE VISTA AND EARNHARDT



NORTHWEST CURB RETURN PROFILE
MONTE VISTA AND EARNHARDT

PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'



CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	90°00'00"	45.00	70.69	45.00
B	89°37'41"	50.00	78.22	49.68
C	01°28'05"	2500.00	64.06	32.03
D	11°25'16"	303.00	60.40	30.30

CONSTRUCTION NOTES

1. CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
3. CONSTRUCT 0.25' AC ON NATIVE
4. CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C.
5. CONSTRUCT PCC CURB RAMP PER APWA STD. PLAN NO. 111-2, CASE A, TYPE 3 WITH RAISED TRUNCATED DOMES PER CALTRANS STD A88A
6. CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
7. CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
9. CONSTRUCT PCC CROSS GUTTER PER PLAN AND APWA STD PLAN NO. 122-1
10. ADJUST WATER VALVE TO GRADE
11. RECONSTRUCT OR ADJUST MANHOLE TO GRADE
12. CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
13. CONSTRUCT 4" PCC DRIVEWAY
14. TO BE RELOCATED BY SCE
15. PROTECT IN PLACE
16. REMOVE AND REPLACE BLOCK WALL IN KIND
18. TO BE RELOCATED/REMOVED, SEE WATER PLANS
19. MSE WALL, SEE STRUCTURAL PLANS
21. RECONSTRUCT DRAINAGE INLET, SEE STORM DRAIN PLANS
22. RECONSTRUCT 4"x4" RECTANGULAR PIPE ROOF DRAIN PIPE IN KIND
27. GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
28. CONSTRUCT PCC V-DITCH PER DETAIL 3 ON SHEET 4

REMOVAL NOTES:

- A REMOVE CURB & GUTTER
- B REMOVE AC
- D REMOVE
- F REMOVE AND REPLACE BLOCK WALL AND SALVAGE WROUGHT IRON FENCE FOR LATER USE
- H REMOVE AND SALVAGE WROUGHT IRON FENCE, AUTOMATIC SLIDING GATE & ELECTRICAL EQUIPMENT
- L REMOVE PARKWAY DRAIN

20 0 40 80
SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DATE BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-05 DATE

LAN ENG JOB NO. CCFM0202

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY | ASSISTANT DIRECTOR DATE
CHIEF DESIGN ENGINEER DATE | DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

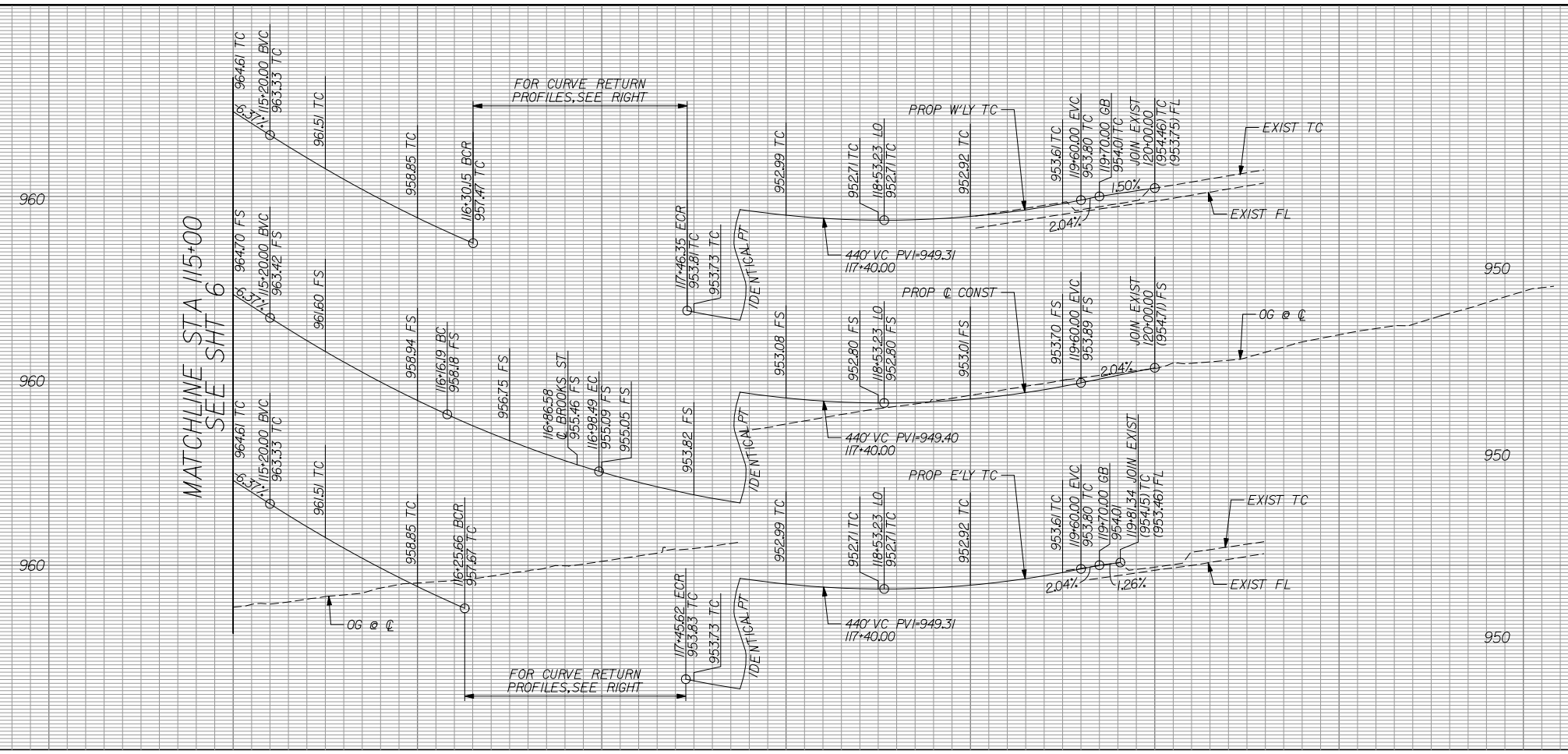
APPROVED _____ 2005
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

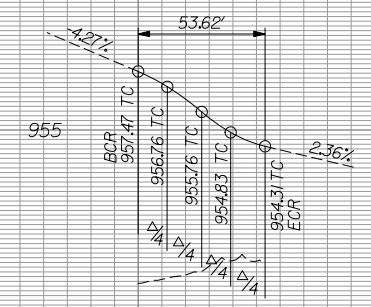
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

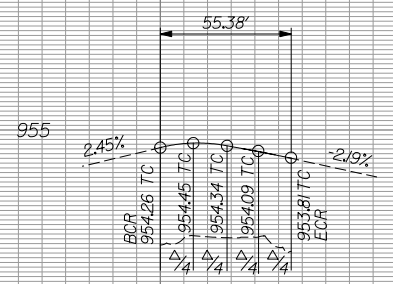
STREET IMPROVEMENTS
MONTE VISTA AVENUE
STA 96+97.00 TO 105+00.00

CITY FILE NO
DRAWING NO
SHEET 5 OF 82 SHEETS

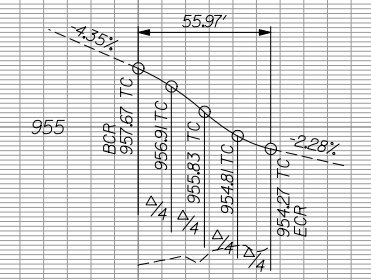




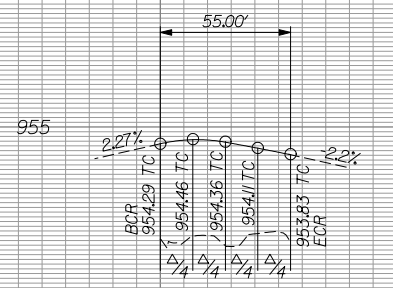
SOUTHWEST CURB RETURN PROFILE
MONTE VISTA AND BROOKS



NORTHWEST CURB RETURN PROFILE
MONTE VISTA AND BROOKS

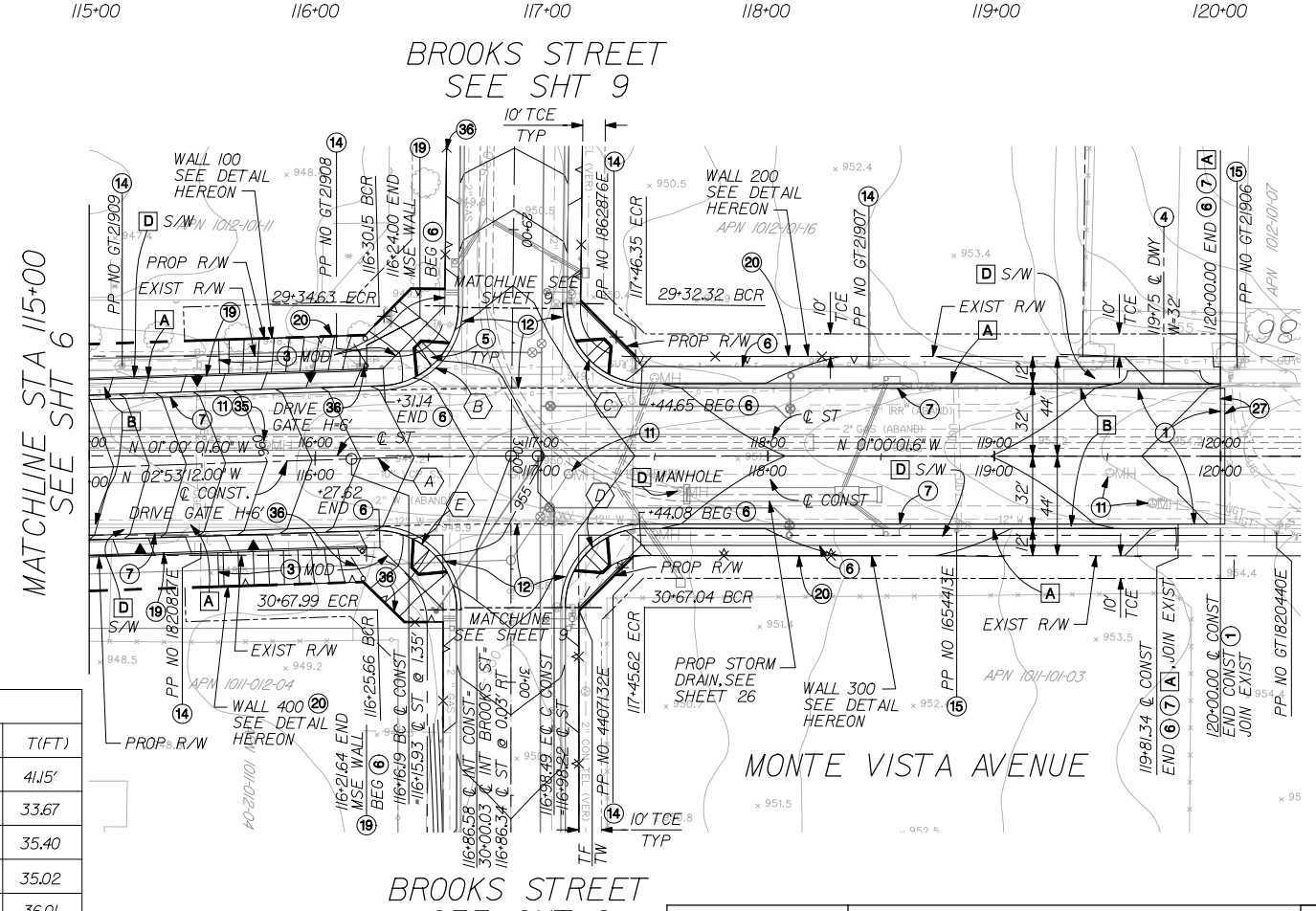


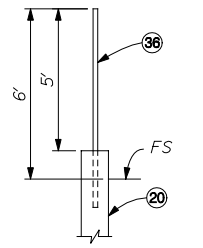
SOUTHEAST CURB RETURN PROFILE
MONTE VISTA AND BROOKS



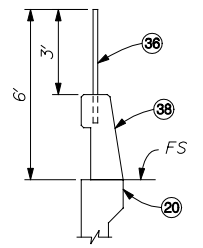
NORTHEAST CURB RETURN PROFILE
MONTE VISTA AND BROOKS

PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

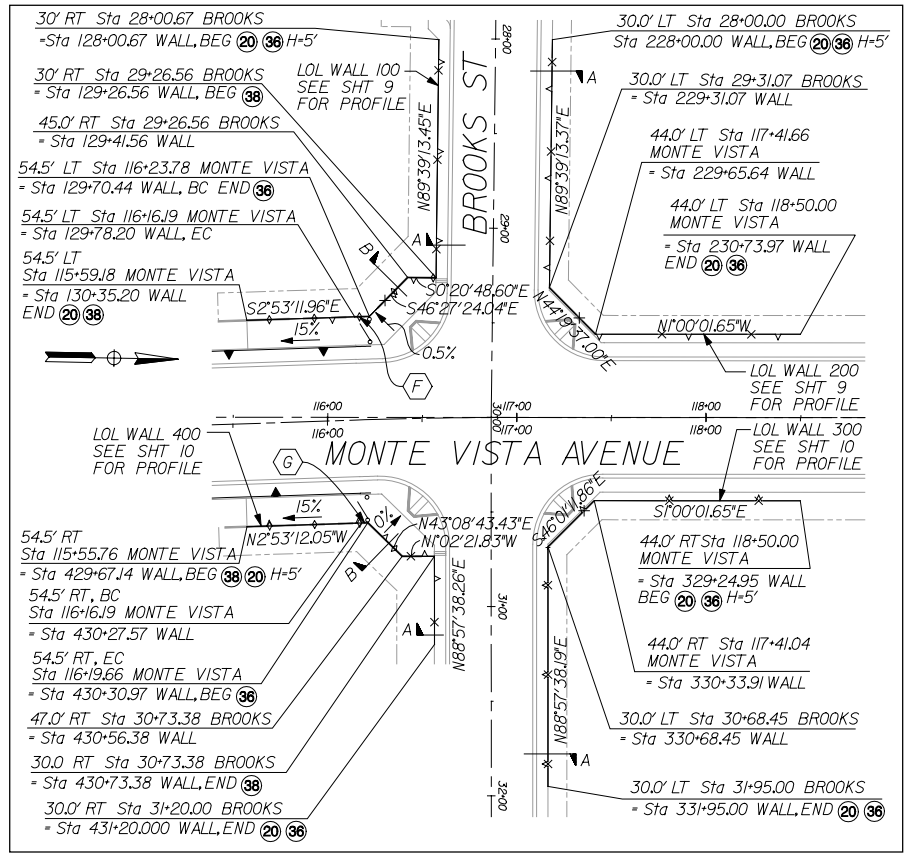




CHAIN LINK FENCE
SECTION A



CHAIN LINK FENCE AT BARRIER
SECTION B



RETAINING WALL DETAIL
SCALE: 1" = 50'

CONSTRUCTION NOTES

1. CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
3. CONSTRUCT 0.25' AC ON NATIVE
3 MOD. CONSTRUCT 0.40' AC ON NATIVE FOR LANDING AND ACCESS RAMP
4. CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C.
5. CONSTRUCT PCC CURB RAMP PER APWA STD. PLAN NO. 111-2, CASE A, TYPE 3 WITH
6. CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
7. CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
10. ADJUST WATER VALVE TO GRADE
11. RECONSTRUCT OR ADJUST MANHOLE TO GRADE
12. CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
14. TO BE RELOCATED BY SCE
15. PROTECT IN PLACE
19. MSE WALL, SEE STRUCTURAL PLANS
20. CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
27. GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
35. CONSTRUCT SAFTY LEDGE PER APWA PLAN 330-1
36. INSTALL CHAIN LINK FENCE PER APWA STD 600-1
38. CONSTRUCT CONCRETE BARRIER TYPE 736 CALTRANS STD. B11-56

REMOVAL NOTES:

- A REMOVE CURB & GUTTER
- B REMOVE AC
- D REMOVE

20 0 40 80
SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

CURVE DATA

ID	Δ	R(FT)	L(FT)	T(FT)
A	1°53'10"	2500.00	82.30	41.15'
B	87°46'46"	35.00	53.62	33.67
C	90°39'15"	35.00	55.38	35.40
D	90°2'20"	35.00	55.00	35.02
E	91°37'49"	35.00	55.97	36.01
F	0°10'26"	2554.50	7.76	3.88
G	0°04'47"	2445.50	3.40	1.70

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/07 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

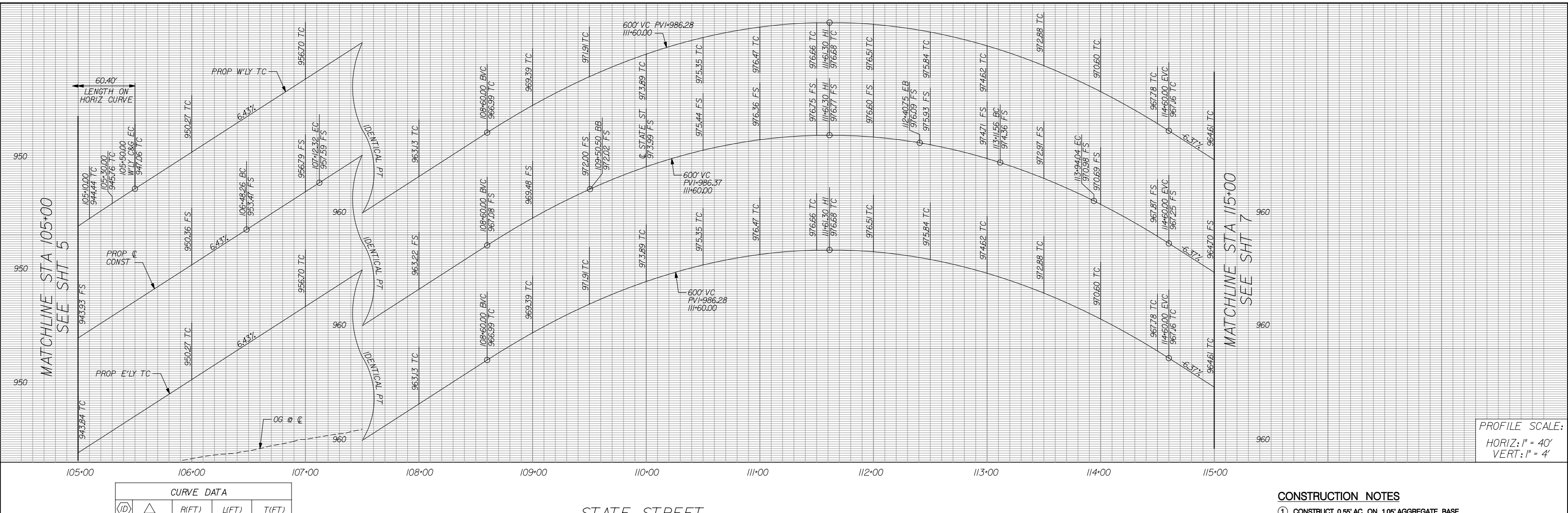
ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-07
DATE
LAN ENG JOB NO. COFMO202

MARK	REVISIONS	BY	APPR.	DATE

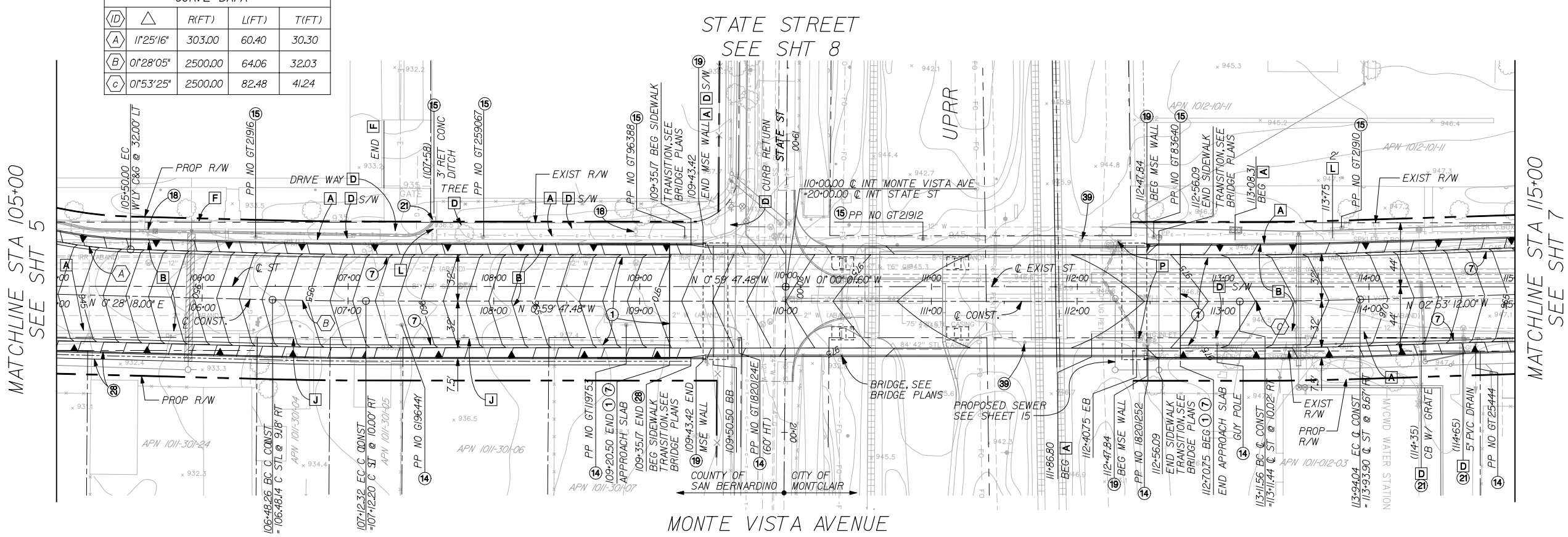
APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STREET IMPROVEMENTS
MONTE VISTA AVENUE
STA 115+00.00 TO 120+00.00

CITY FILE NO
DRAWING NO
SHEET 7 OF 82 SHEETS



CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	11°25'16"	303.00	60.40	30.30
B	01°28'05"	2500.00	64.06	32.03
C	01°53'25"	2500.00	82.48	41.24



CONSTRUCTION NOTES

1. CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
7. CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
14. TO BE RELOCATED BY SCE
15. PROTECT IN PLACE
18. TO BE RELOCATED/REMOVED, SEE WATER PLANS
19. MSE WALL, SEE STRUCTURAL PLANS
21. RECONSTRUCT DRAINAGE INLET, SEE STORM DRAIN PLANS
28. CONSTRUCT PCC V-DITCH PER DETAIL 3 ON SHEET 4
39. REMODEL AND/OR RELOCATE RR CROSSING GATE BY UPRR

REMOVAL NOTES:

- A REMOVE CURB & GUTTER
- B REMOVE AC
- D REMOVE
- F REMOVE AND REPLACE BLOCK WALL WITH SALVAGED WROUGHT IRON FENCE
- J REMOVE CHAINLINK FENCE
- L REMOVE PARKWAY DRAIN
- P REMOVE EXISTING CATCH BASIN

20 0 40 80
SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DATE BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-05 DATE

LAN ENG JOB NO. COFMO202

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

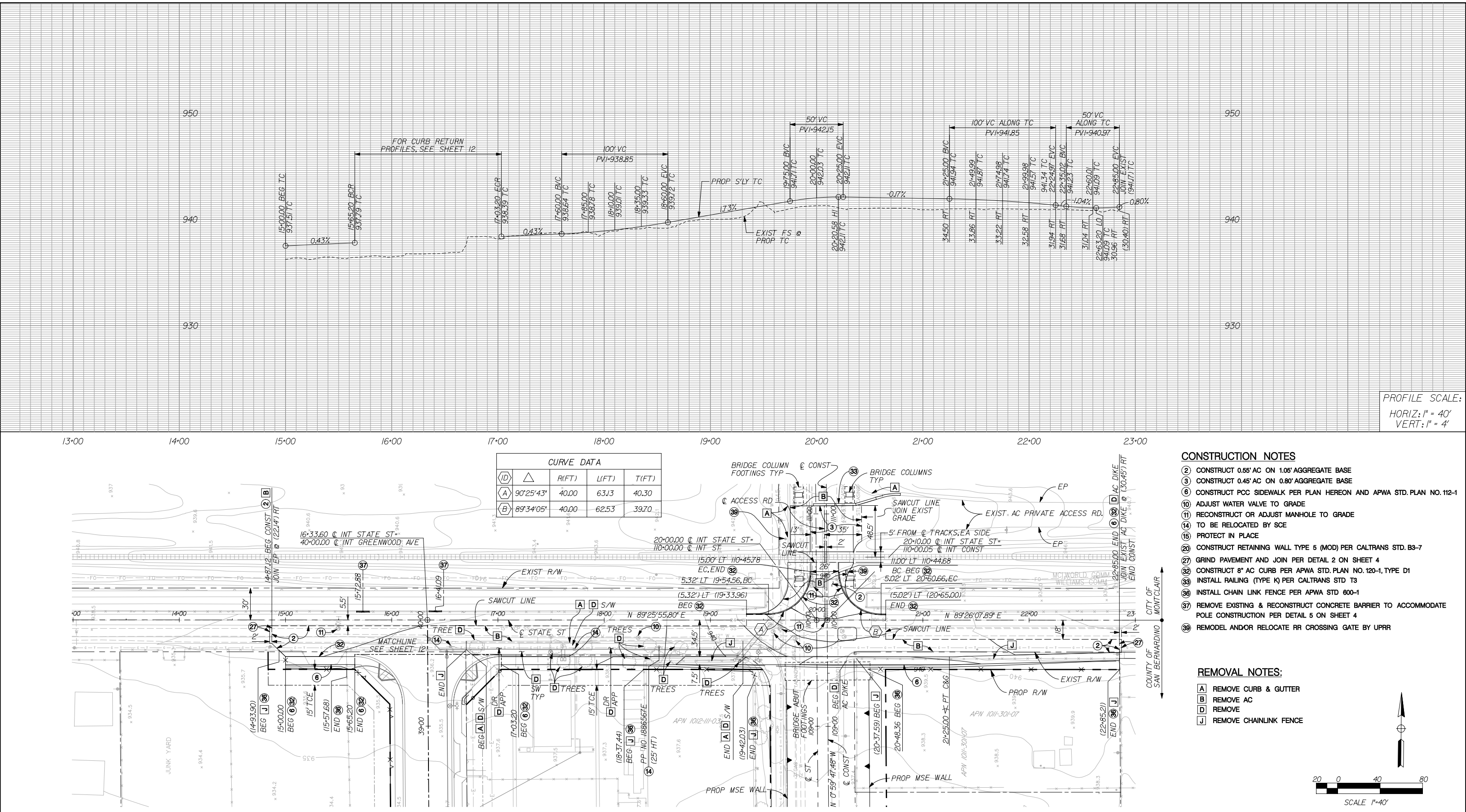
DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY | ASSISTANT DIRECTOR DATE
CHIEF DESIGN ENGINEER DATE | DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2005
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STREET IMPROVEMENTS
MONTE VISTA AVENUE
STA 105+00.00 TO 115+00.00

CITY FILE NO
DRAWING NO
SHEET 6 OF 82 SHEETS



CONSTRUCTION NOTES

- (2) CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
- (3) CONSTRUCT 0.45' AC ON 0.80' AGGREGATE BASE
- (6) CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
- (10) ADJUST WATER VALVE TO GRADE
- (11) RECONSTRUCT OR ADJUST MANHOLE TO GRADE
- (14) TO BE RELOCATED BY SCE
- (15) PROTECT IN PLACE
- (20) CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
- (27) GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
- (32) CONSTRUCT 8" AC CURB PER APWA STD. PLAN NO. 120-1, TYPE D1
- (33) INSTALL RAILING (TYPE K) PER CALTRANS STD T3
- (36) INSTALL CHAIN LINK FENCE PER APWA STD 600-1
- (37) REMOVE EXISTING & RECONSTRUCT CONCRETE BARRIER TO ACCOMMODATE POLE CONSTRUCTION PER DETAIL 5 ON SHEET 4
- (39) REMODEL AND/OR RELOCATE RR CROSSING GATE BY UPRR

REMOVAL NOTES:

- [A] REMOVE CURB & GUTTER
- [B] REMOVE AC
- [D] REMOVE
- [J] REMOVE CHAINLINK FENCE

SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DATES BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-05

DATE

LAN ENG JOB NO. COFM0202

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY

SUBMITTED BY — ASSISTANT DIRECTOR — DATE

CHIEF DESIGN ENGINEER — DATE — DIRECTOR OF PUBLIC WORKS — DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2005

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

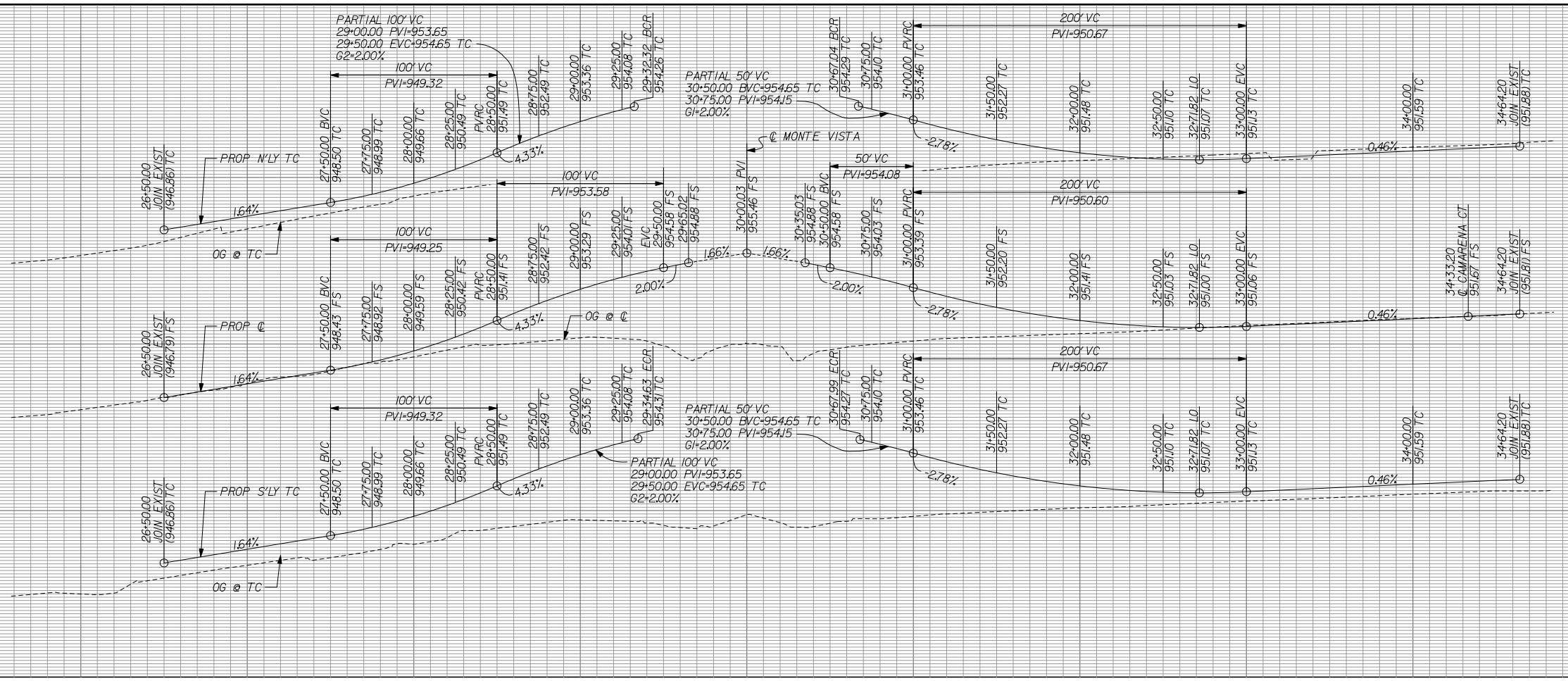
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

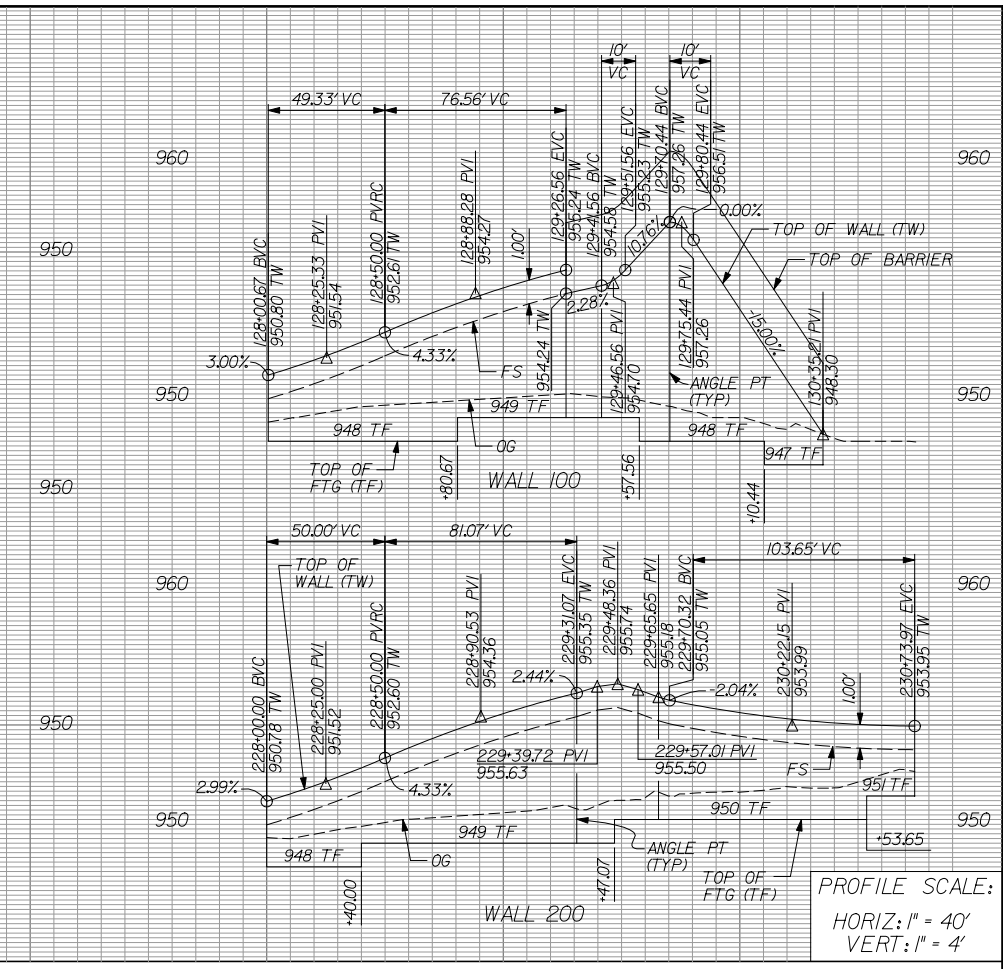
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

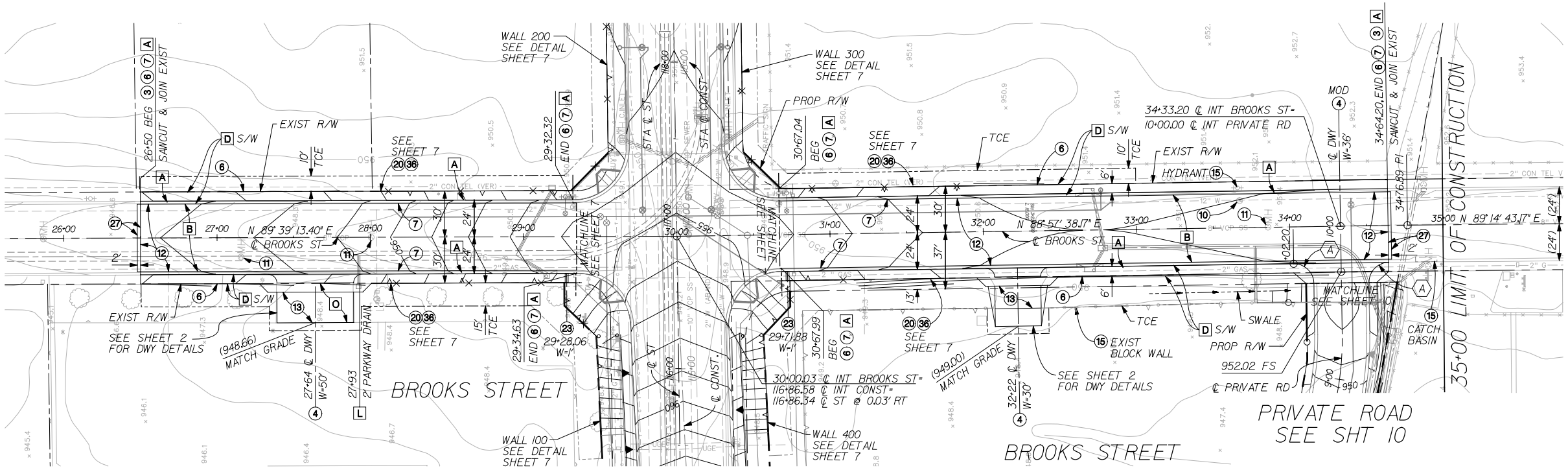
MONTE VISTA AVENUE
GRADE SEPARATION

STREET IMPROVEMENTS
STATE STREET
STA 14+87.00 TO 22+85.00

CITY FILE NO
DRAWING NO
SHEET 8 OF 82 SHEETS







CONSTRUCTION NOTES

- (4) CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C
- (6) CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
- (7) CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
- (10) ADJUST WATER VALVE TO GRADE
- (11) RECONSTRUCT OR ADJUST MANHOLE TO GRADE
- (12) CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
- (13) CONSTRUCT 4" PCC DRIVEWAY
- (15) PROTECT IN PLACE
- (20) CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
- (23) CONSTRUCT PARKWAY DRAIN PER APWA STD. PLAN 151-1
- (27) GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
- (36) INSTALL CHAIN LINK FENCE PER APWA STD 600-1

REMOVAL NOTES:

- A REMOVE CURB & GUTTER
- B REMOVE AC
- C RELOCATE
- D REMOVE
- L REMOVE PARKWAY DRAIN
- O REMOVE CONCRETE

SCALE 1"=40'

CURVE DATA				
(ID)	△	R(FT)	L(FT)	T(FT)
(A)	90°00'00"	13.00	20.42	13.00

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DIG ALERT
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
ERIC S. GIROD
No. C 57288
Exp. 12/31/07
CIVIL
STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-07 DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

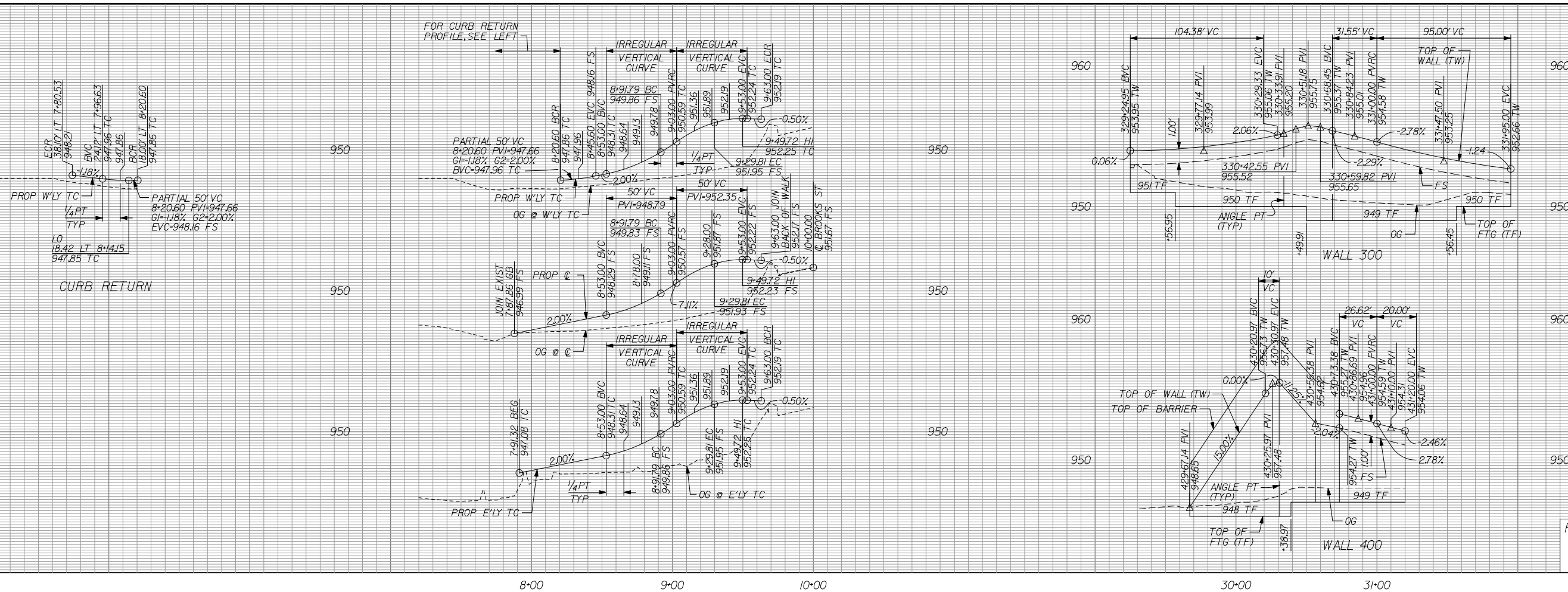
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

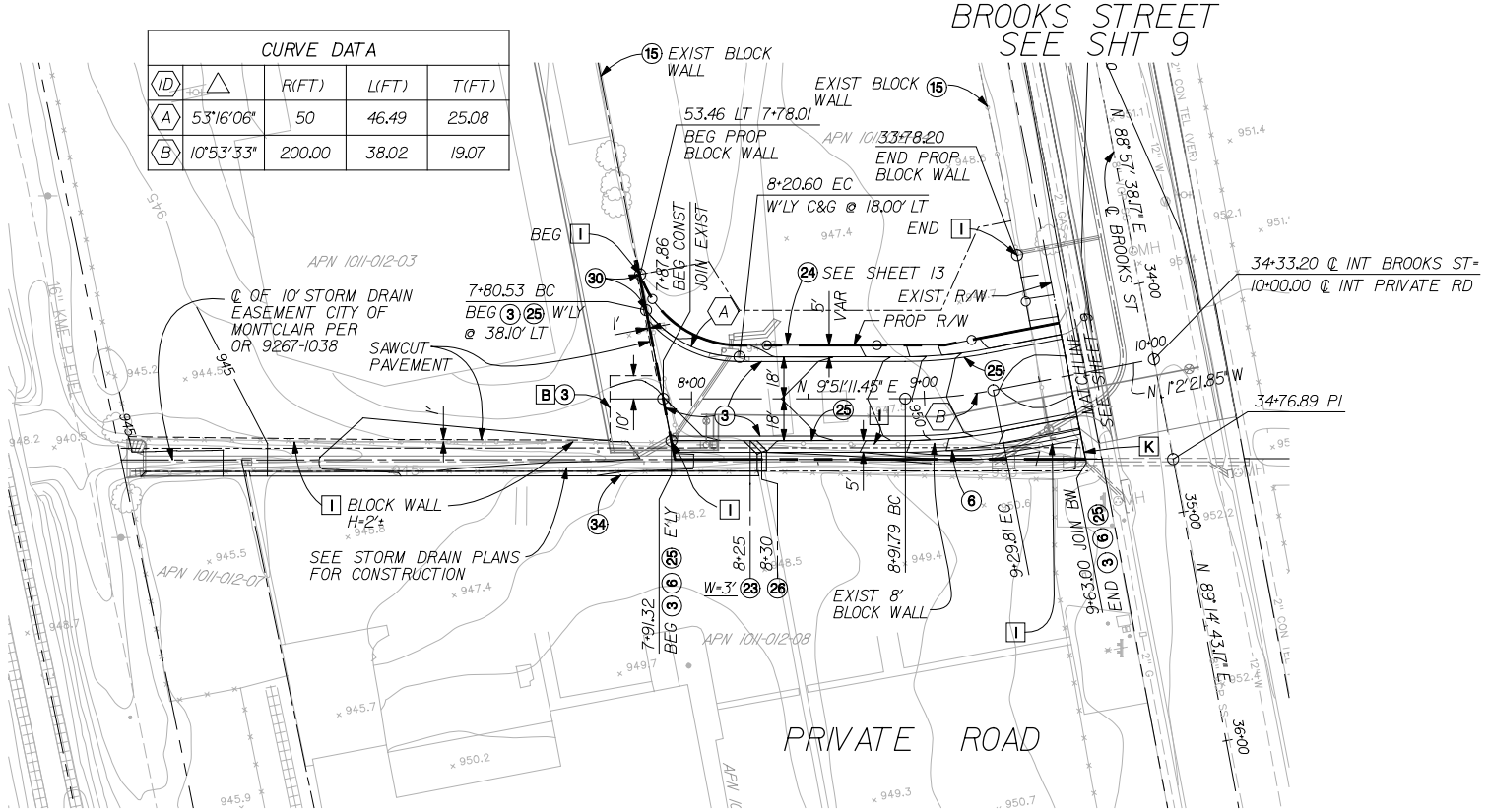
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

STREET IMPROVEMENTS
BROOKS STREET
STA 26+50.00 TO 34+64.00

CITY FILE NO
DRAWING NO
SHEET 9 OF 82 SHEETS





CONSTRUCTION NOTES

- (3) CONSTRUCT 0.25' AC ON NATIVE
- (6) CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
- (15) PROTECT IN PLACE
- (23) CONSTRUCT PARKWAY DRAIN PER APWA STD. PLAN 151-1
- (24) CONSTRUCT 8' MASONRY BLOCK WALL
- (25) CONSTRUCT 6" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1 TYPE A2
- (26) CONSTRUCT 3' PCC SWALE PER DETAIL 1 ON SHEET 4
- (30) CONSTRUCT 6" PCC CURB PER APWA STD. PLAN NO. 120-1, TYPE A1
- (34) CONSTRUCT CONCRETE RIBBON GUTTER PER CITY OF MONTCLAIR STD 106

REMOVAL NOTES:

- [B] REMOVE AC
- [I] REMOVE BLOCK WALL
- [K] REMOVE EXISTING CONCRETE HEADWALL

SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DIG ALERT
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/07 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-07

DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

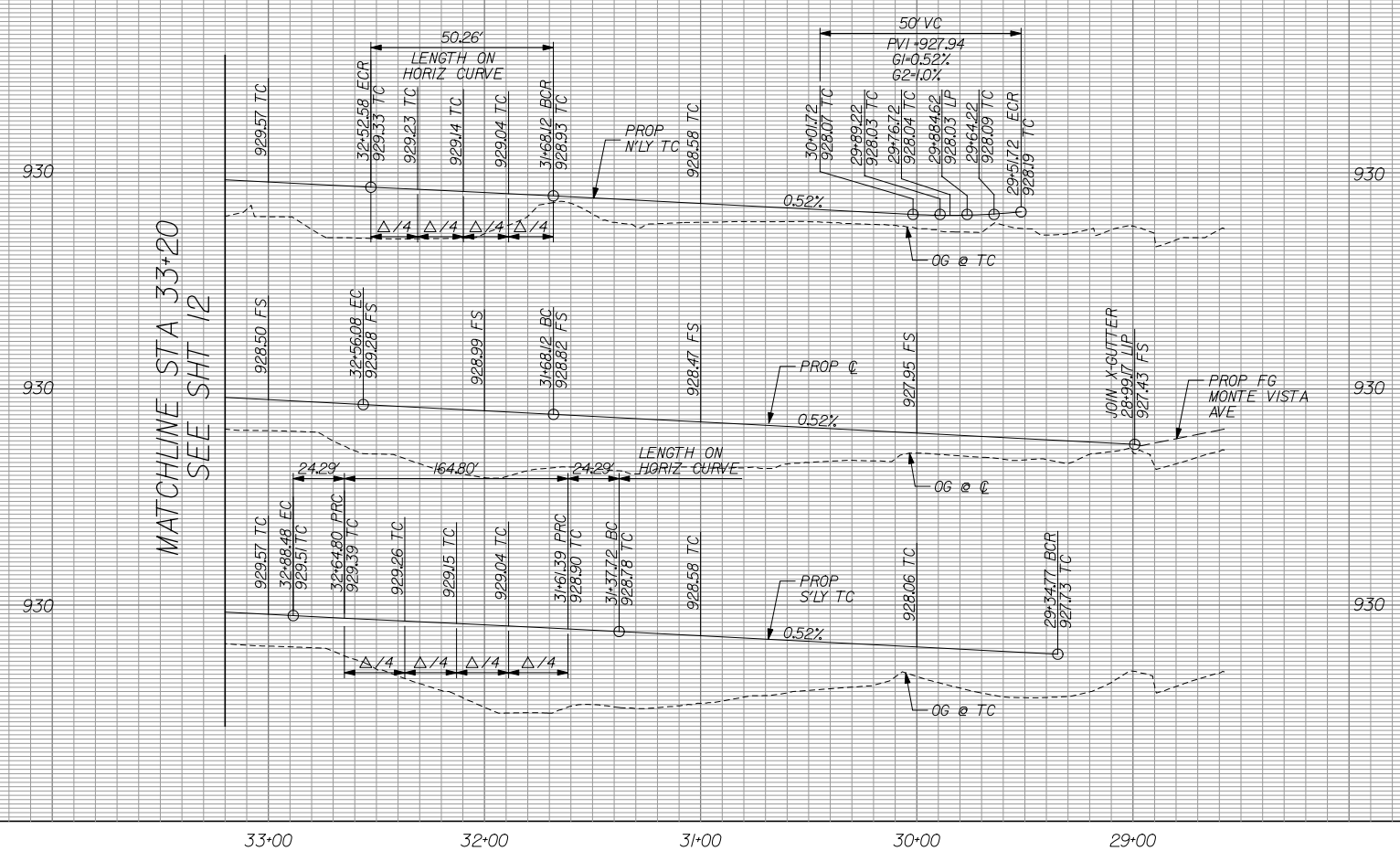
MONTE VISTA AVENUE
GRADE SEPARATION

STREET IMPROVEMENTS
PRIVATE ROAD
STA 7+87.00 TO 9+63.00

CITY FILE NO

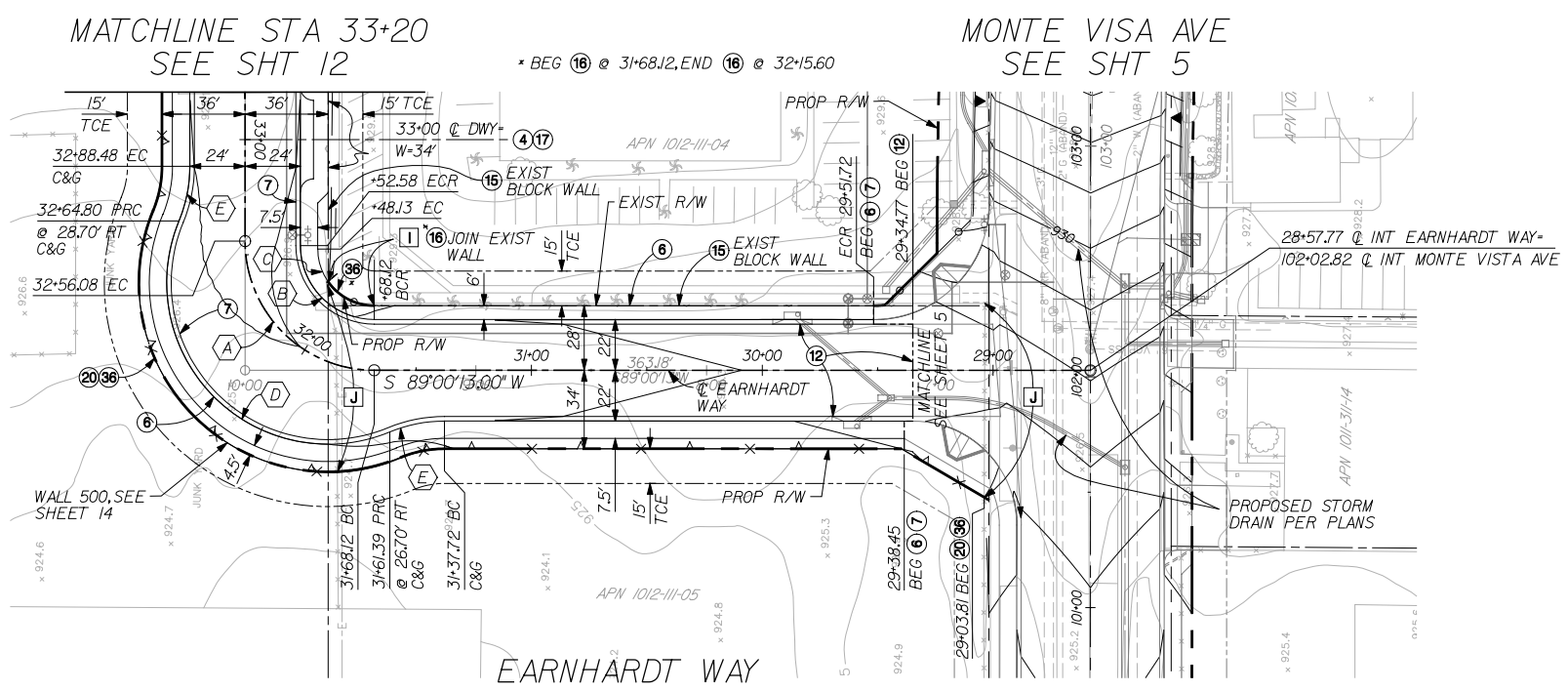
DRAWING NO

SHEET 10 OF 82 SHEETS



PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	89°59'47"	56.00	87.96	56.00
B	89°59'47"	32.00	50.26	32.00
C	89°59'47"	24.50	38.48	24.50
D	134°53'16"	70.00	164.80	168.53
E	22°26'44"	62.00	24.29	12.30



CONSTRUCTION NOTES

(4) CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C, AND DETAIL ON SHEET 4
(6) CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
(7) CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
(12) CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
(15) PROTECT IN PLACE
(16) REMOVE AND REPLACE BLOCK WALL IN KIND
(17) INSTALL SALVAGED SLIDING WROUGHT IRON FENCE GATE AND ELECTRICAL EQUIPMENT
(20) CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
(36) INSTALL CHAIN LINK FENCE PER APWA STD 600-1

REMOVAL NOTES:

[I] REMOVE BLOCK WALL
[J] REMOVE CHAINLINK FENCE

SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-05 DATE
LAN ENG JOB NO. COFM0202

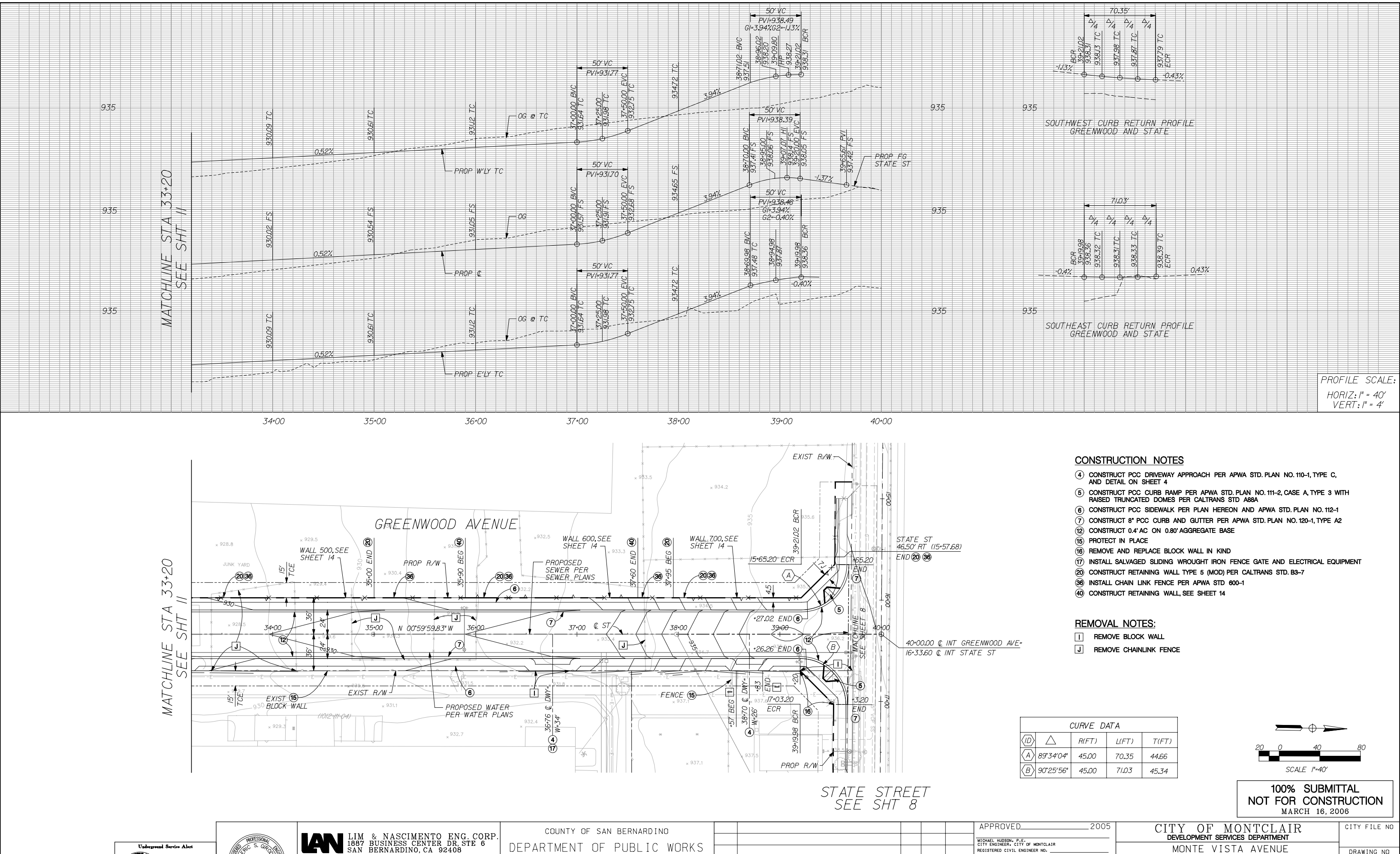
COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY
ASSISTANT DIRECTOR DATE
CHIEF DESIGN ENGINEER DATE
DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2005
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STREET IMPROVEMENTS
EARNHARDT WAY
STA 29+34.77 TO STA 33+20.00

CITY FILE NO
DRAWING NO
SHEET 11 OF 82 SHEETS



CONSTRUCTION NOTES

(4) CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C, AND DETAIL ON SHEET 4

(5) CONSTRUCT PCC CURB RAMP PER APWA STD. PLAN NO. 111-2, CASE A, TYPE 3 WITH RAISED TRUNCATED DOMES PER CALTRANS STD A88A

(6) CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1

(7) CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2

(12) CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE

(15) PROTECT IN PLACE

(16) REMOVE AND REPLACE BLOCK WALL IN KIND

(17) INSTALL SALVAGED SLIDING WROUGHT IRON FENCE GATE AND ELECTRICAL EQUIPMENT

(20) CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7

(36) INSTALL CHAIN LINK FENCE PER APWA STD 600-1

(40) CONSTRUCT RETAINING WALL, SEE SHEET 14

REMOVAL NOTES:

[I] REMOVE BLOCK WALL

[J] REMOVE CHAINLINK FENCE

CURVE DATA				
(ID)	△	R(FT)	L(FT)	T(FT)
(A)	89°34'04"	45.00	70.35	44.66
(B)	90°25'56"	45.00	71.03	45.34

20 0 40 80

SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
CALL 2 WORKING DAYS BEFORE YOU DIG
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
ERIC S. GIRDO
No. C 57288
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIRDO R.C.E. 57288
MY LICENSE EXPIRES 12-31-05 DATE

LAN ENG JOB NO. COFM0202

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY

SUBMITTED BY

ASSISTANT DIRECTOR DATE

CHIEF DESIGN ENGINEER DATE

DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2005

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG

CHECKED BY: NS

RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

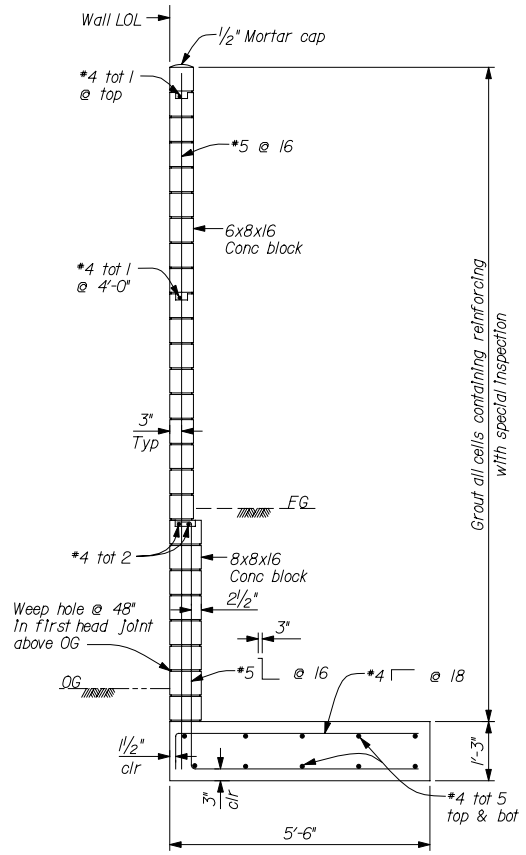
MONTE VISTA AVENUE
GRADE SEPARATION

STREET IMPROVEMENTS
GREENWOOD AVENUE
STA 33+20.00 TO STA 39+67.50

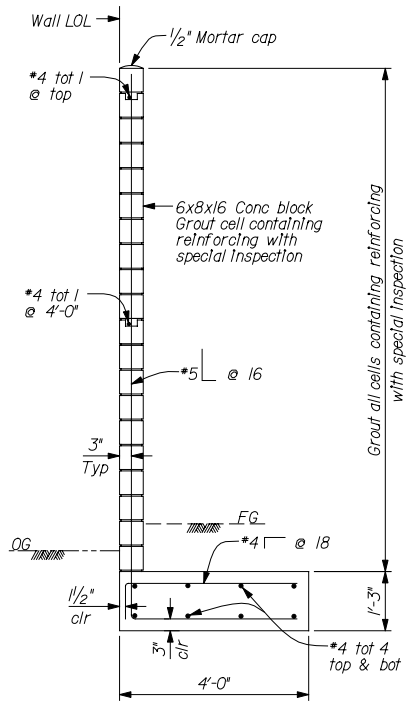
CITY FILE NO

DRAWING NO

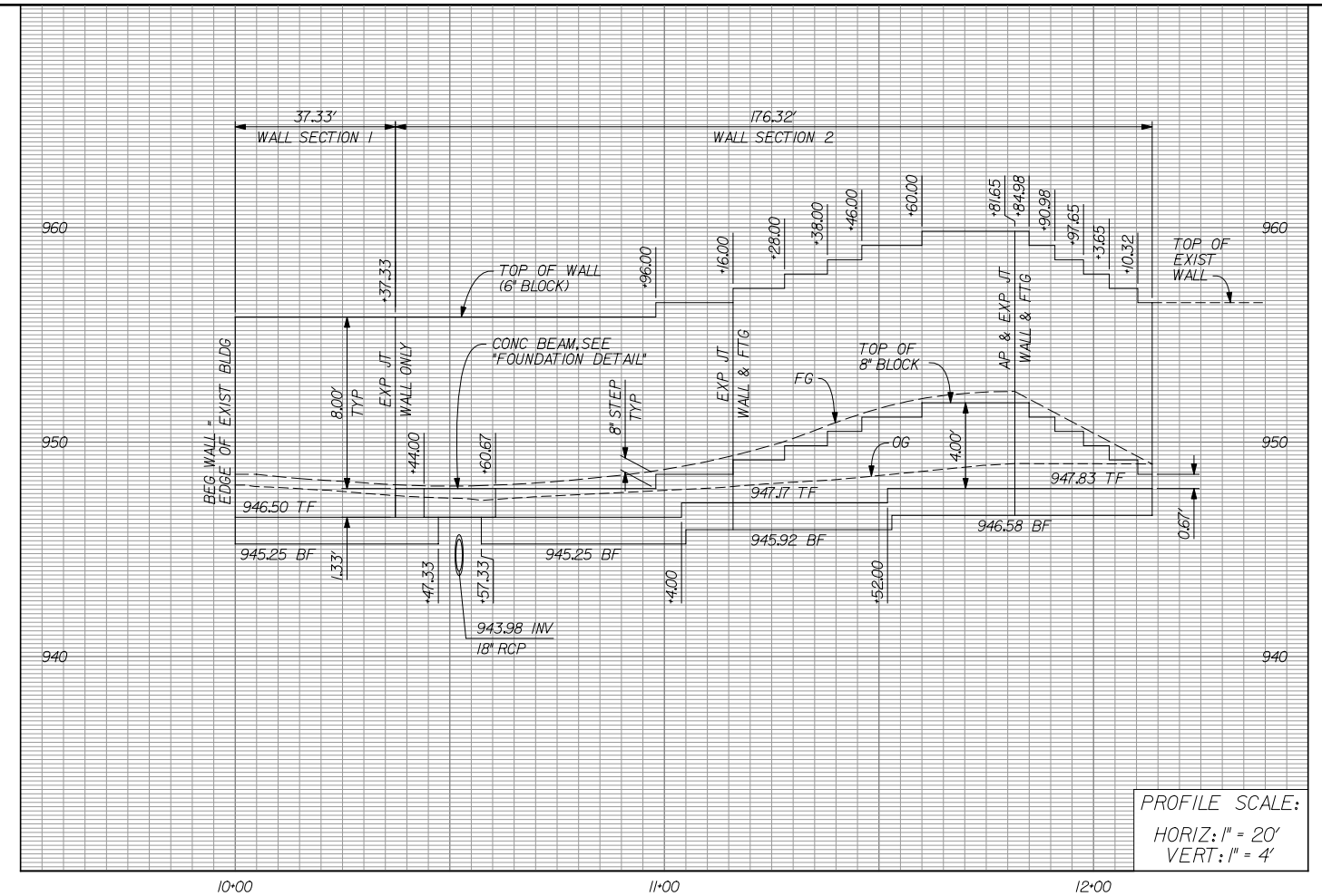
SHEET 12 OF 82 SHEETS

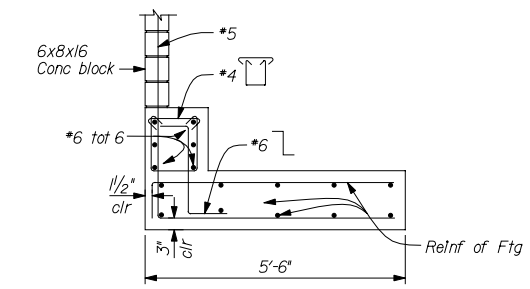


WALL SECTION 1
1/2" = 1'-0"

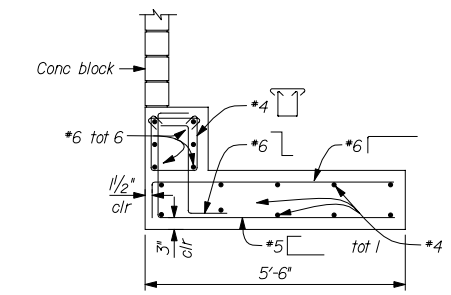


WALL SECTION 2
1/2" = 1'-0"

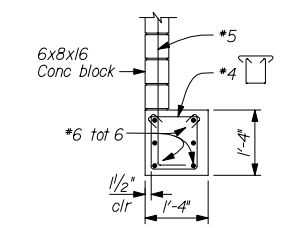




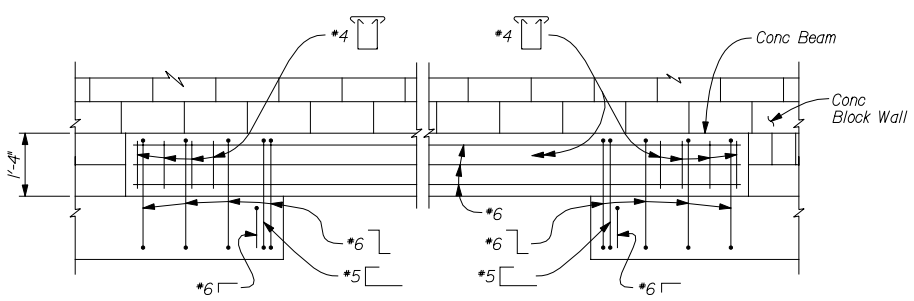
SECTION A–A
1/2" = 1'-0"



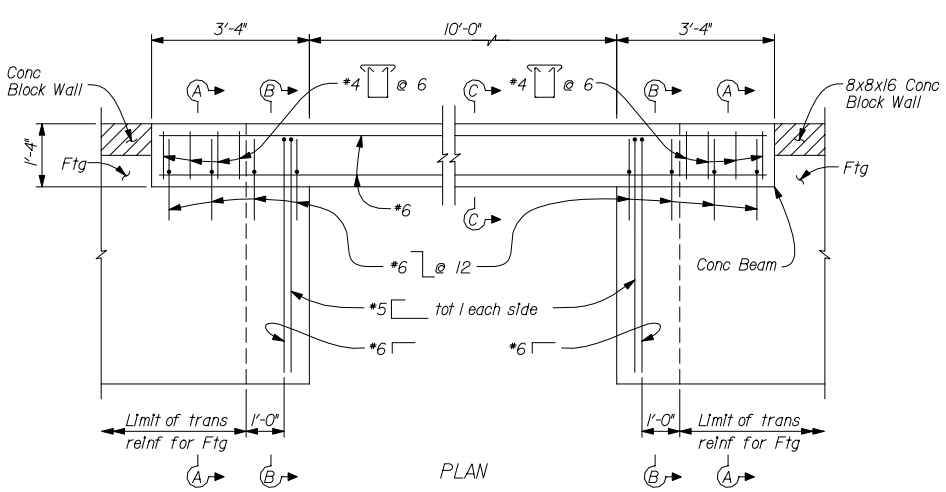
SECTION B–B
1/2" = 1'-0"



SECTION C–C
1/2" = 1'-0"



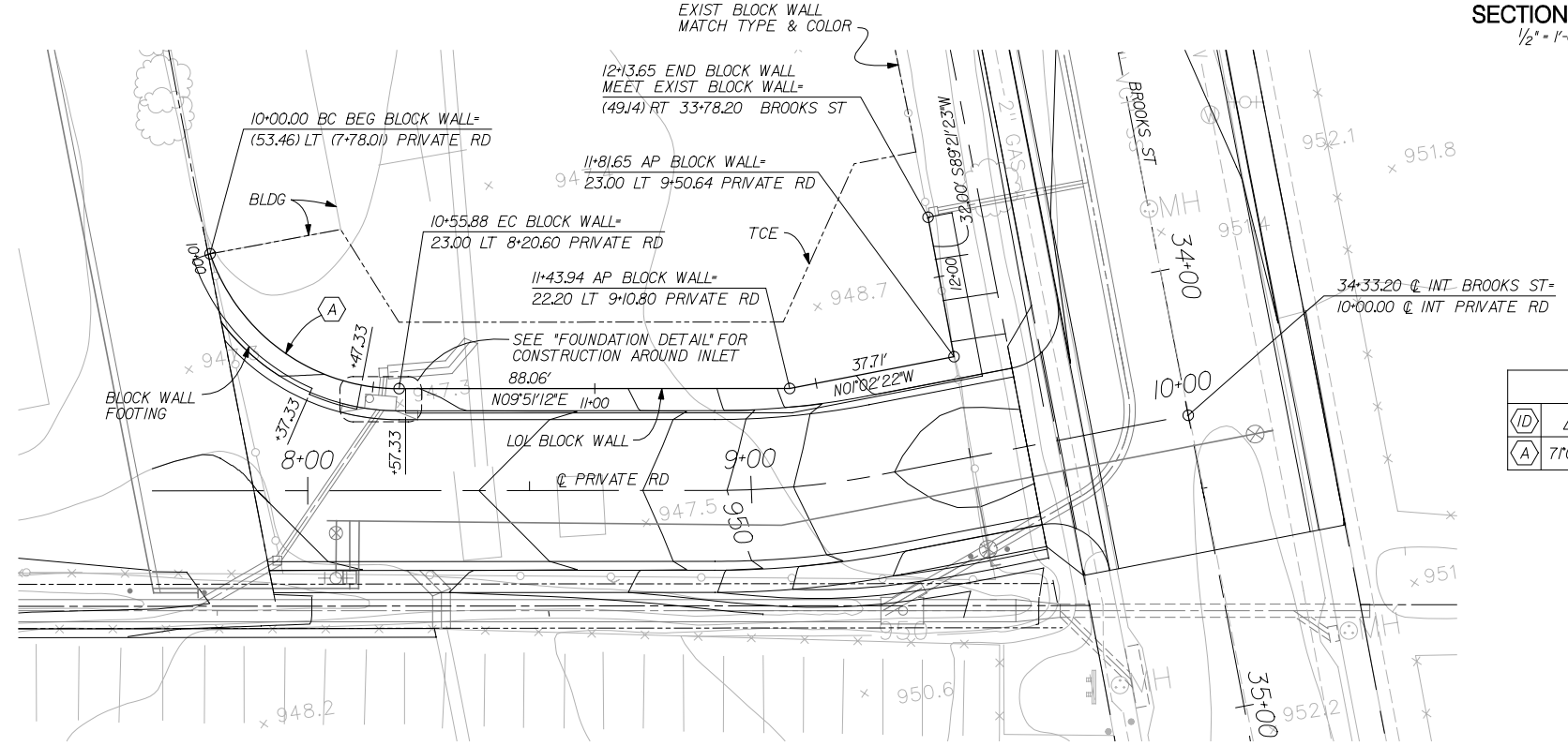
ELEVATION



PLAN

Note:
Reinforcement for Footing & Concrete Block Wall not shown for clarity.

FOUNDATION DETAIL (AT INLET)
1/2" = 1'-0"



CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	71°08'59"	45.00	55.88	32.19

SCALE 1"=20'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/07 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-07
DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

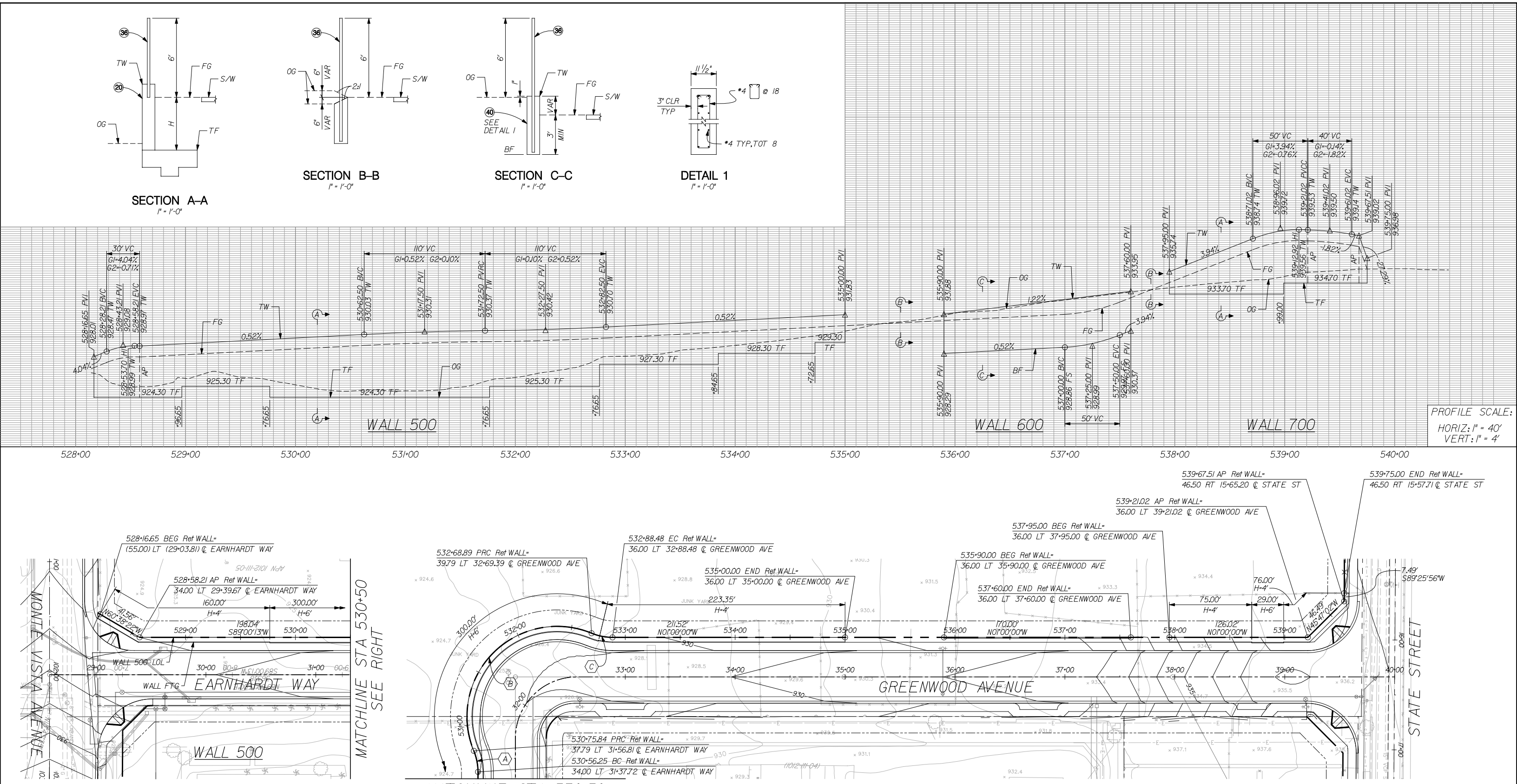
APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE GRADE SEPARATION

PRIVATE ROAD MASONRY BLOCK WALL

CITY FILE NO
DRAWING NO
SHEET 13 OF 82 SHEETS



CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	22°26'44"	50.00	19.59	9.92
B	134°53'16"	82.00	193.05	197.42
C	22°26'44"	50.00	19.59	9.92

SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ERIC S. GIROD No. C 57288 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288
MY LICENSE EXPIRES 12-31-05 DATE

LAN ENG JOB NO. COFM0202

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY

SUBMITTED BY | ASSISTANT DIRECTOR DATE

CHIEF DESIGN ENGINEER DATE | DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2005

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

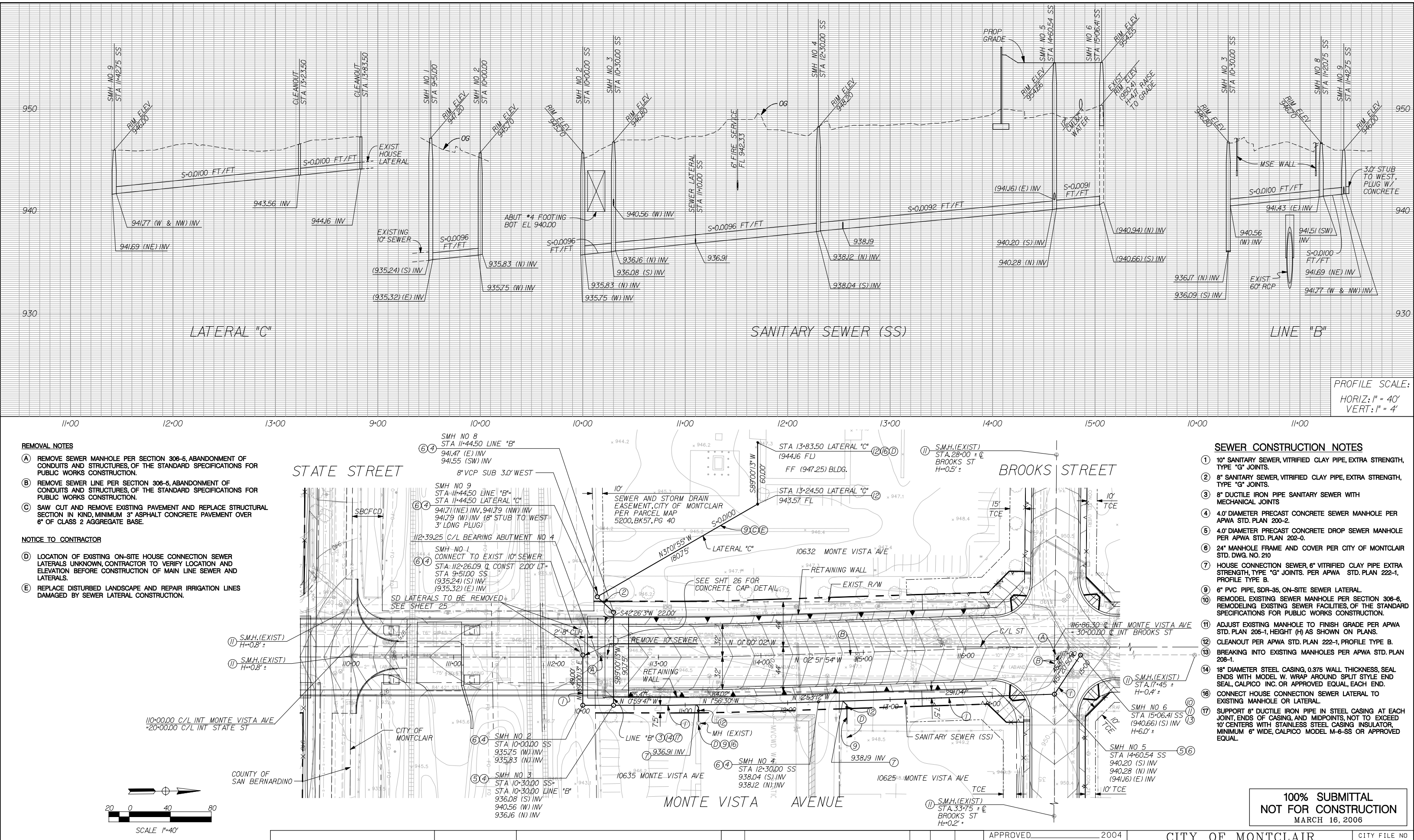
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

RETAINING WALLS 500, 600, & 700

CITY FILE NO
DRAWING NO
SHEET 14 OF 82 SHEETS



REMOVAL NOTES

(A) REMOVE SEWER MANHOLE PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

(B) REMOVE SEWER LINE PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

(C) SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.

NOTICE TO CONTRACTOR

(D) LOCATION OF EXISTING ON-SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION AND ELEVATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.

(E) REPLACE DISTURBED LANDSCAPE AND REPAIR IRRIGATION LINES DAMAGED BY SEWER LATERAL CONSTRUCTION.

SEWER CONSTRUCTION NOTES

1. 10" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
2. 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
3. 8" DUCTILE IRON PIPE SANITARY SEWER WITH MECHANICAL JOINTS
4. 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200-2.
5. 4.0' DIAMETER PRECAST CONCRETE DROP SEWER MANHOLE PER APWA STD. PLAN 202-0.
6. 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210
7. HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS. PER APWA STD. PLAN 222-1, PROFILE TYPE B.
9. 6" PVC PIPE, SDR-35, ON-SITE SEWER LATERAL.
10. REMODEL EXISTING SEWER MANHOLE PER SECTION 306-6, REMODELING EXISTING SEWER FACILITIES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
11. ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205-1, HEIGHT (H) AS SHOWN ON PLANS.
12. CLEANOUT PER APWA STD. PLAN 222-1, PROFILE TYPE B.
13. BREAKING INTO EXISTING MANHOLES PER APWA STD. PLAN 208-1.
14. 18" DIAMETER STEEL CASING, 0.375 WALL THICKNESS, SEAL ENDS WITH MODEL W. WRAP AROUND SPLIT STYLE END SEAL, CALPICO INC. OR APPROVED EQUAL, EACH END.
16. CONNECT HOUSE CONNECTION SEWER LATERAL TO EXISTING MANHOLE OR LATERAL.
17. SUPPORT 8" DUCTILE IRON PIPE IN STEEL CASING AT EACH JOINT, ENDS OF CASING, AND MIDPOINTS, NOT TO EXCEED 10' CENTERS WITH STAINLESS STEEL CASING INSULATOR, MINIMUM 6" WIDE, CALPICO MODEL M-6-SS OR APPROVED EQUAL.

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

DOUGLAS ENGINEERNG
414 TENNESSEE ST, SUITE "G"
REDLANDS, CA 92373

DOUGLAS H. MAYS R.C.E. 21062
MY LICENSE EXPIRES 09-30-07

DATE

REGISTERED PROFESSIONAL ENGINEER DOUGLAS H. MAYS No. C 21062 Exp. 09/30/07 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG
CHECKED BY: DM
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

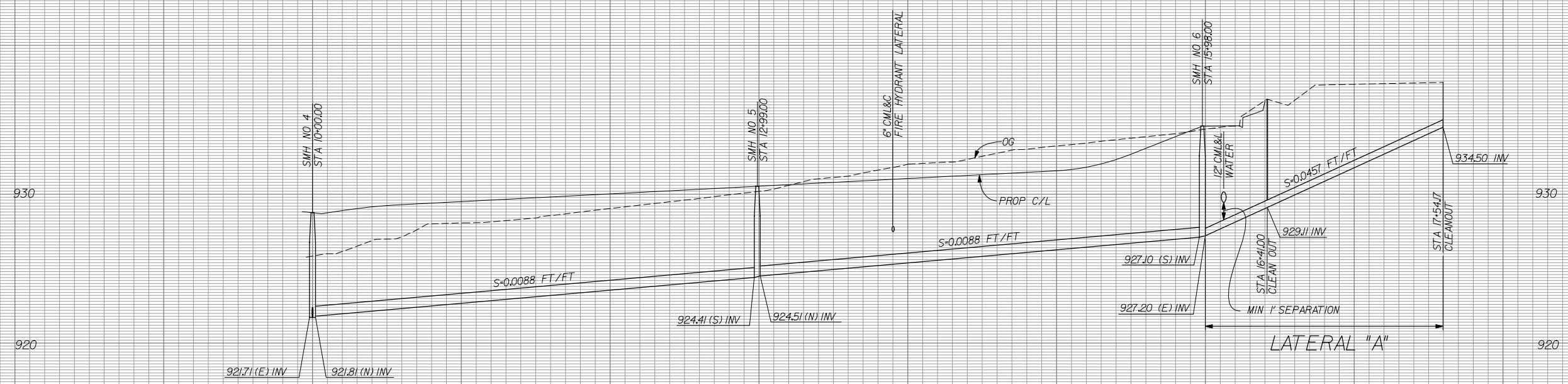
MONTE VISTA AVENUE
GRADE SEPARATION

SEWER PLAN AND PROFILE
MONTE VISTA AVENUE
FROM STATE ST TO BROOKS ST

CITY FILE NO

DRAWING NO

SHEET 15 OF 82 SHEETS



PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

SEWER CONSTRUCTION NOTES

(2) 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.

(4) 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200-2.

(6) 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210.

(7) HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS. PER APWA STD. PLAN 222-1, PROFILE TYPE B.

(9) 6" PVC PIPE, SDR-35, ON-SITE SEWER LATERAL.

(11) ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205-1, HEIGHT (H) AS SHOWN ON PLANS.

(12) CLEANOUT PER APWA STD. PLAN 222-1, PROFILE TYPE B.

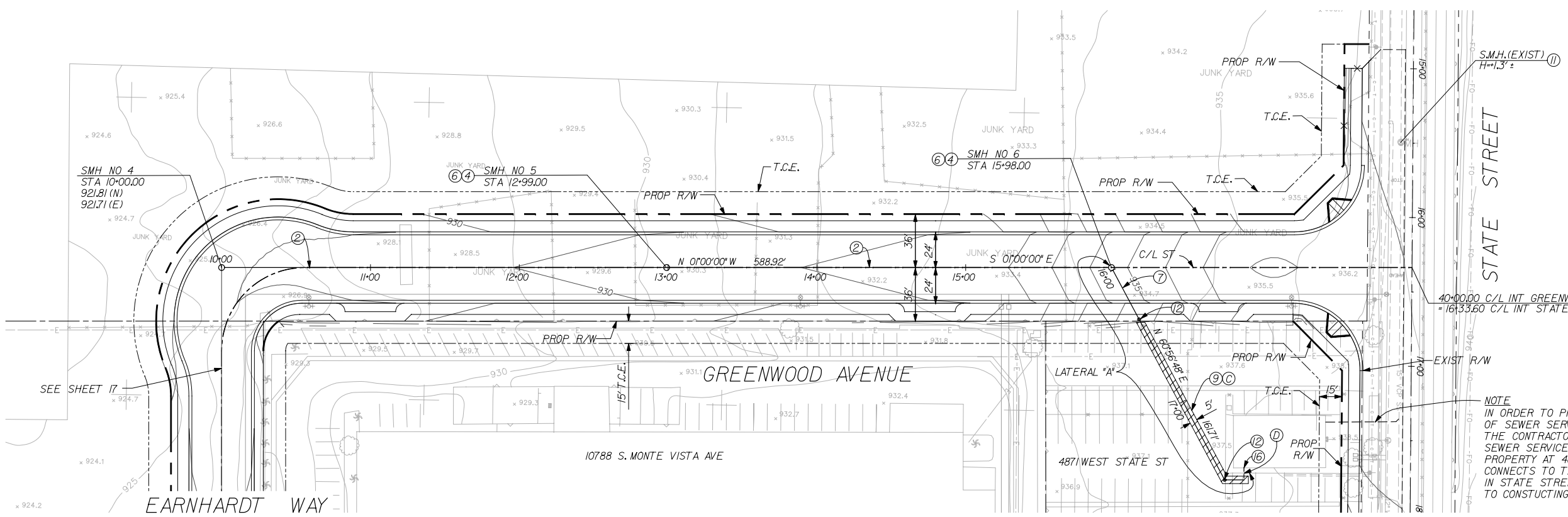
(16) CONNECT HOUSE CONNECTION SEWER LATERAL TO EXISTING MANHOLE OR LATERAL.

REMOVALS

(C) SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.

NOTICE TO CONTRACTOR

(D) LOCATION OF EXISTING ON-SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.



NOTE
IN ORDER TO PRECLUDE DUPLICATION OF SEWER SERVICE TO THIS PROPERTY, THE CONTRACTOR IS TO DETERMINE IF SEWER SERVICE LATERAL, FOR THE PROPERTY AT 4871 WEST STATE ST, CONNECTS TO THE 15" SEWER IN STATE STREET, PRIOR TO CONSTUCTING LATERAL "A"

20 0 40 80
SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

DOUGLAS ENGINEERNG
414 TENNESSEE ST, SUITE "G"
REDLANDS, CA 92373

DOUGLAS H. MAYS R.C.E. 21062
MY LICENSE EXPIRES 09-30-07

DATE

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS H. MAYS
No. C 21062
Exp. 09/30/07
CIVIL
STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG
CHECKED BY: DM
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

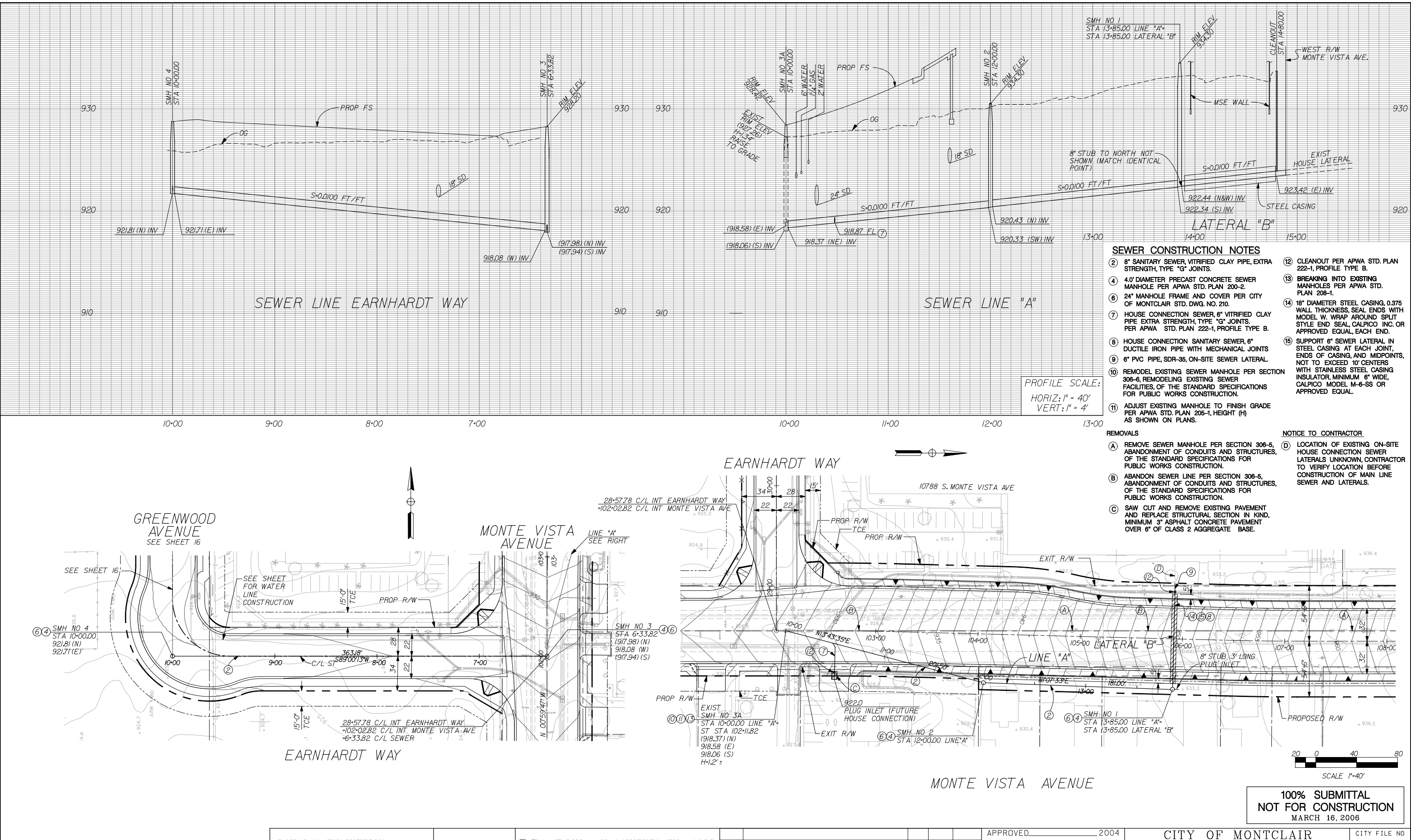
MONTE VISTA AVENUE
GRADE SEPARATION

SEWER PLAN AND PROFILE
GREENWOOD AVENUE
FROM EARNHARDT WAY TO STATE ST

CITY FILE NO

DRAWING NO

SHEET 16 OF 82 SHEETS



PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

SEWER CONSTRUCTION NOTES

(2) 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.

(4) 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200–2.

(6) 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210.

(7) HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS. PER APWA STD. PLAN 222–1, PROFILE TYPE B.

(8) HOUSE CONNECTION SANITARY SEWER, 6" DUCTILE IRON PIPE WITH MECHANICAL JOINTS

(9) 6" PVC PIPE, SDR–35, ON–SITE SEWER LATERAL.

(10) REMODEL EXISTING SEWER MANHOLE PER SECTION 306–6, REMODELING EXISTING SEWER FACILITIES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

(11) ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205–1, HEIGHT (H) AS SHOWN ON PLANS.

(12) CLEANOUT PER APWA STD. PLAN 222–1, PROFILE TYPE B.

(13) BREAKING INTO EXISTING MANHOLES PER APWA STD. PLAN 208–1.

(14) 18" DIAMETER STEEL CASING, 0.375 WALL THICKNESS, SEAL ENDS WITH MODEL W. WRAP AROUND SPLIT STYLE END SEAL, CALPICO INC. OR APPROVED EQUAL, EACH END.

(15) SUPPORT 6" SEWER LATERAL IN STEEL CASING AT EACH JOINT, ENDS OF CASING, AND MIDPOINTS, NOT TO EXCEED 10' CENTERS WITH STAINLESS STEEL CASING INSULATOR, MINIMUM 6" WIDE, CALPICO MODEL M–6–SS OR APPROVED EQUAL.

REMOVALS

(A) REMOVE SEWER MANHOLE PER SECTION 306–5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

(B) ABANDON SEWER LINE PER SECTION 306–5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

(C) SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.

NOTICE TO CONTRACTOR

(D) LOCATION OF EXISTING ON–SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1–800 422–4133
TWO WORKING DATE BEFORE YOU DIG

DOUGLAS ENGINEERNG
414 TENNESSEE ST, SUITE "G"
REDLANDS, CA 92373

DOUGLAS H. MAYS R.C.E. 21062
MY LICENSE EXPIRES 09–30–07

DATE

REGISTERED PROFESSIONAL ENGINEER DOUGLAS H. MAYS No. C 21062 Exp. 09/30/07 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG
CHECKED BY: DM
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

SEWER PLAN AND PROFILE
EARNHARDT WAY & MONTE VISTA AVENUE

CITY FILE NO
DRAWING NO
SHEET 17 OF 82 SHEETS

WATER CONSTRUCTION NOTES

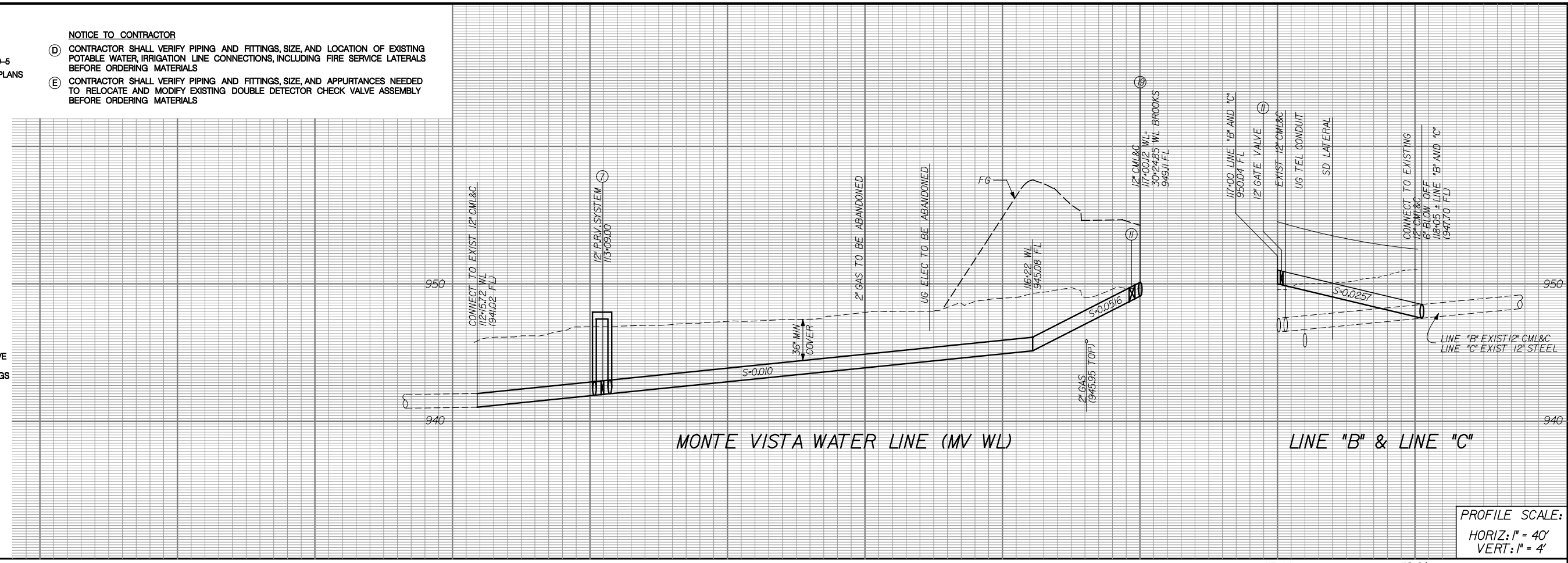
(2) CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
(4) CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
(5) CONSTRUCT 1" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD-5
(7) CONSTRUCT 8" PRESSURE REDUCING VALVE SYSTEM PER DETAIL ON PLANS
(9) CONNECT TO EXISTING WATERLINE – LAP WELD
(11) INSTALL 12" GATE VALVE; FLANGED
(19) INSTALL 12" X 12" X 12" TEE; FLANGED – WELDED
(21) INSTALL 12" – 90° BEND; WELDED
(22) INSTALL 12" – 45° BEND; WELDED
(24) INSTALL 6" – 90° BEND; WELDED
(26) INSTALL 12" BLIND FLANGE; FLANGED
(27) SLIP-ON WELD FLANGE
(28) INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
(30) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 1" COPPER WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD-6
(31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD-6
(32) LOCATE EXISTING FIRE SERVICE; CONSTRUCT FIRE SERVICE AND CONNECT LINE TO EXISTING FIRE SERVICE LINE PER STD. DWG. NO. MVWD-10
(38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MVWD-5 OR MVWD-6
(40) SALVAGE AND RELOCATE EXISTING 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY AND FIRE DEPARTMENT CONNECTION (ABOVE GROUND INSTALLATION) MODIFY AND RE-INSTALL WITH NEW PIPING AND FITTINGS PER PLANS
(42) ADJUST EXISTING VALVE CAN AND COVER TO FINISH GRADE
(43) SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".
(44) INSTALL 6" BLOW-OFF INSTALLATION PER STD. DWG. MVWD-16

REMOVAL NOTES

(A) ABANDON WATERLINE AND APPURTANCES PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
(B) REMOVE INTERFERING PORTIONS OF EXISTING WATERLINE AND APPURTENANCES

NOTICE TO CONTRACTOR

(D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS
(E) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND APPURTANCES NEEDED TO RELOCATE AND MODIFY EXISTING DOUBLE DETECTOR CHECK VALVE ASSEMBLY BEFORE ORDERING MATERIALS



PROFILE SCALE:
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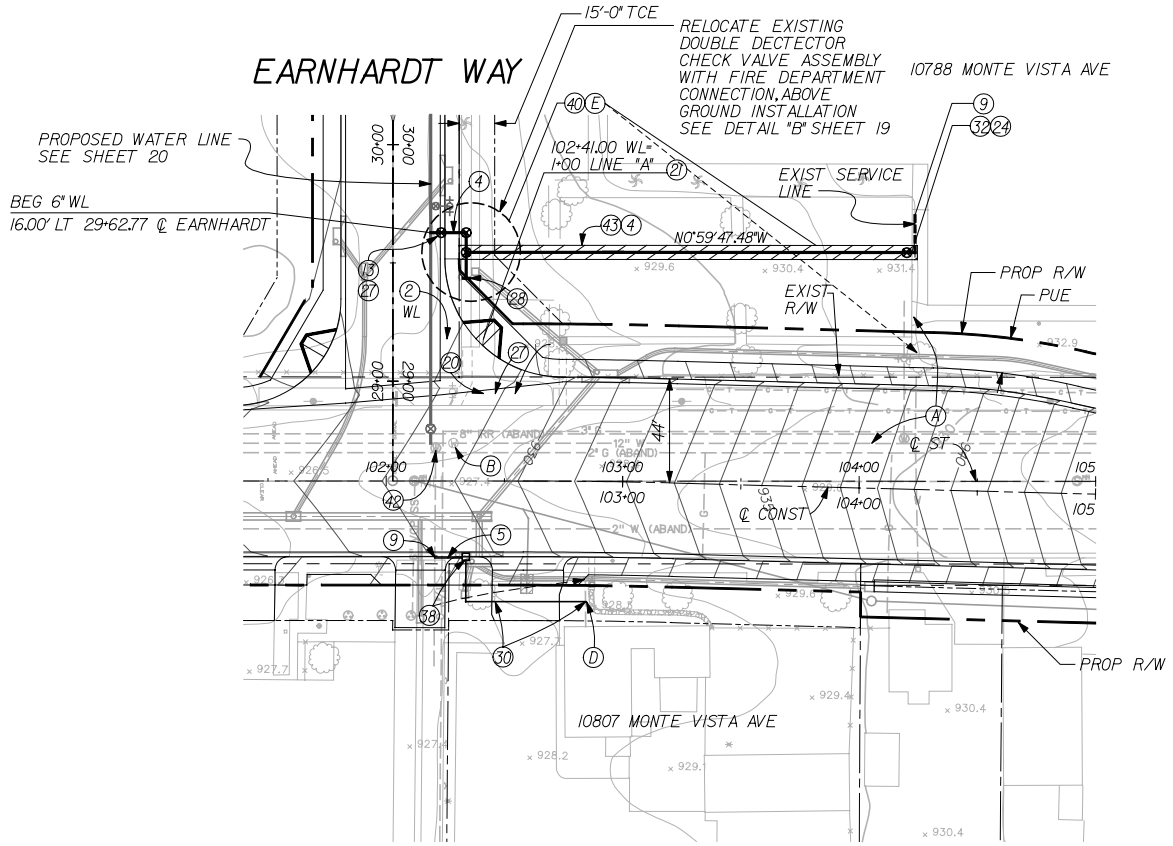

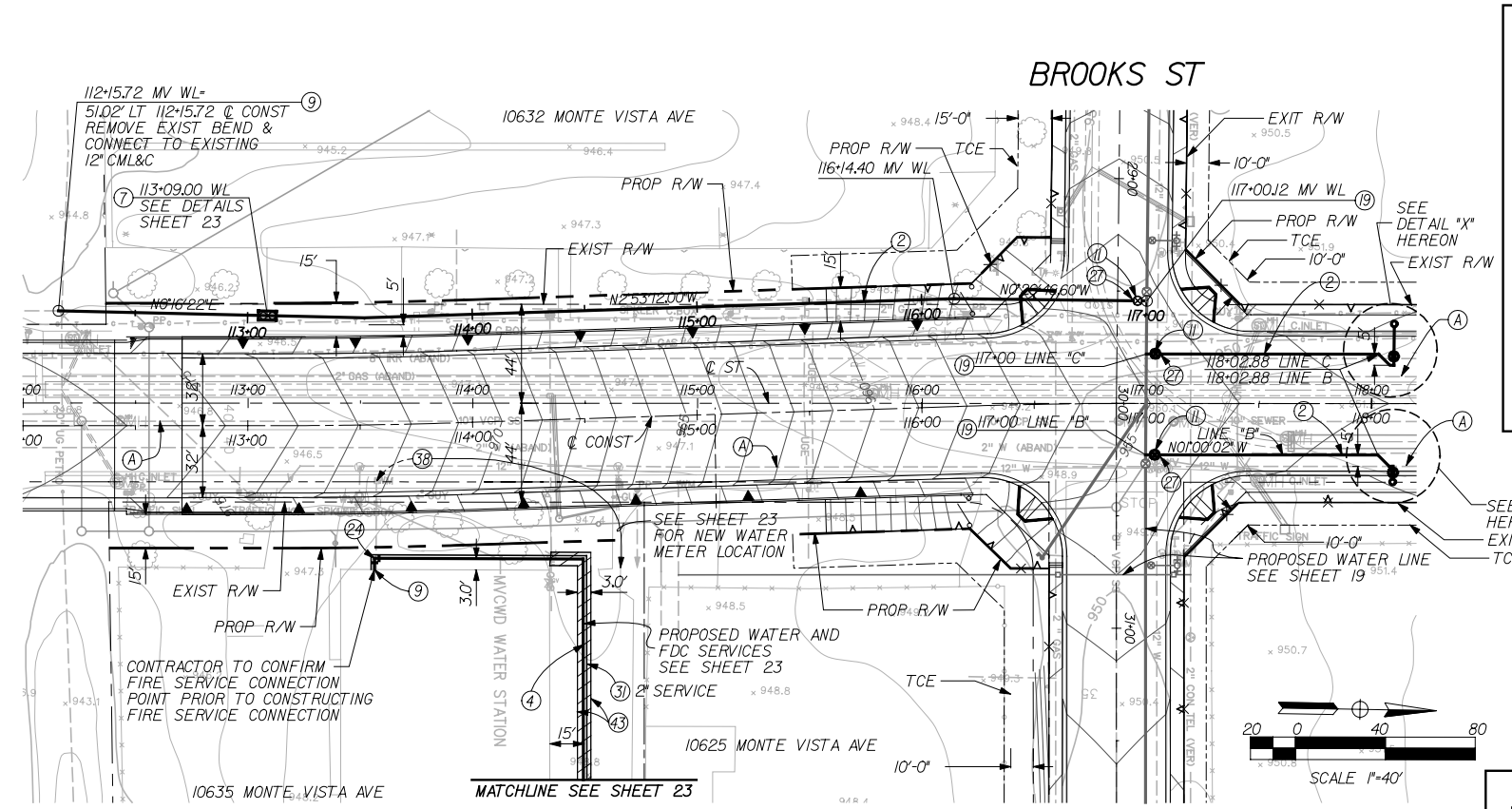

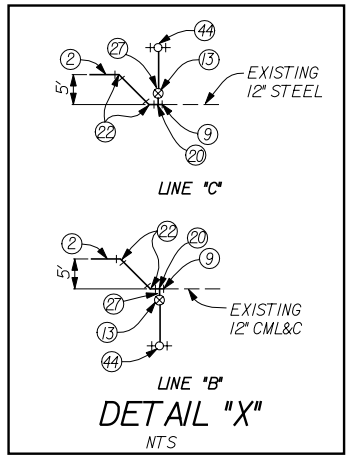

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MARCH 16, 2006

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MONTE VISTA WATER DISTRICT
10575 CENTRAL AVENUE
MONTCLAIR, CALIFORNIA 91763
(909) 624-0035

APPROVED BY | DATE

DOUGLAS ENGINEERNG
414 TENNESSEE ST, SUITE "G"
REDLANDS, CA 92373

DOUGLAS H. MAYS R.C.E. 21062
MY LICENSE EXPIRES 09-30-07

DATE

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LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

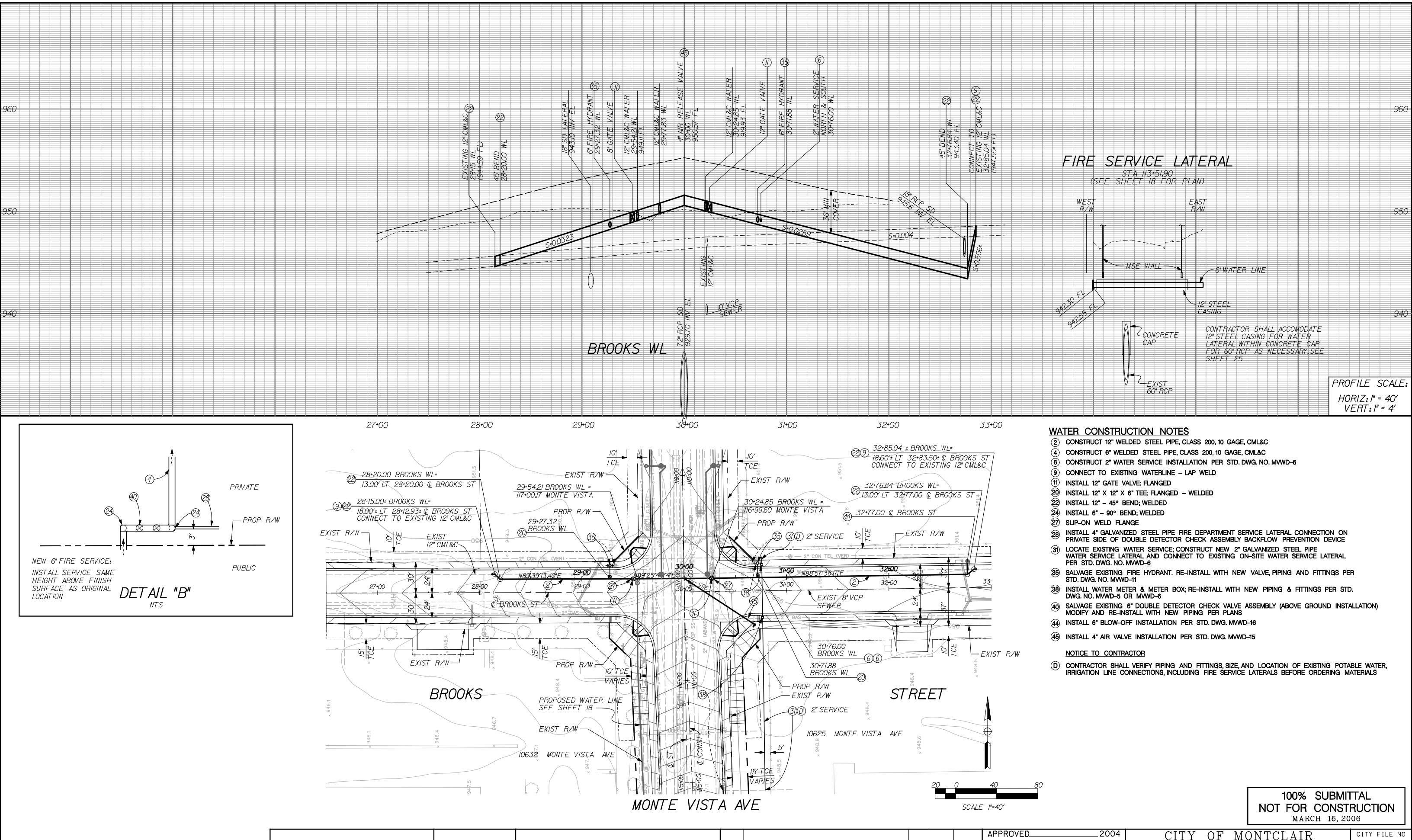
LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: DM
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
WATER IMPROVEMENTS
MONTE VISTA AVENUE

CITY FILE NO
DRAWING NO
SHEET 18 OF 82 SHEETS



WATER CONSTRUCTION NOTES

- (2) CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- (4) CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- (6) CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD-6
- (9) CONNECT TO EXISTING WATERLINE – LAP WELD
- (11) INSTALL 12" GATE VALVE; FLANGED
- (20) INSTALL 12" X 12" X 6" TEE; FLANGED – WELDED
- (22) INSTALL 12" – 45° BEND; WELDED
- (24) INSTALL 6" – 90° BEND; WELDED
- (27) SLIP-ON WELD FLANGE
- (28) INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
- (31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD-6
- (35) SALVAGE EXISTING FIRE HYDRANT. RE-INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MVWD-11
- (38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MVWD-5 OR MVWD-6
- (40) SALVAGE EXISTING 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY (ABOVE GROUND INSTALLATION) MODIFY AND RE-INSTALL WITH NEW PIPING PER PLANS
- (44) INSTALL 6" BLOW-OFF INSTALLATION PER STD. DWG. MVWD-16
- (45) INSTALL 4" AIR VALVE INSTALLATION PER STD. DWG. MVWD-15

NOTICE TO CONTRACTOR

- (D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS

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MARCH 16, 2006

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TWO WORKING DAYS BEFORE YOU DIG

MONTE VISTA WATER DISTRICT
10575 CENTRAL AVENUE
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(909) 624-0035

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CIVIL
STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

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MICHAEL HUDSON, P.E.
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MY LICENSE EXPIRES _____
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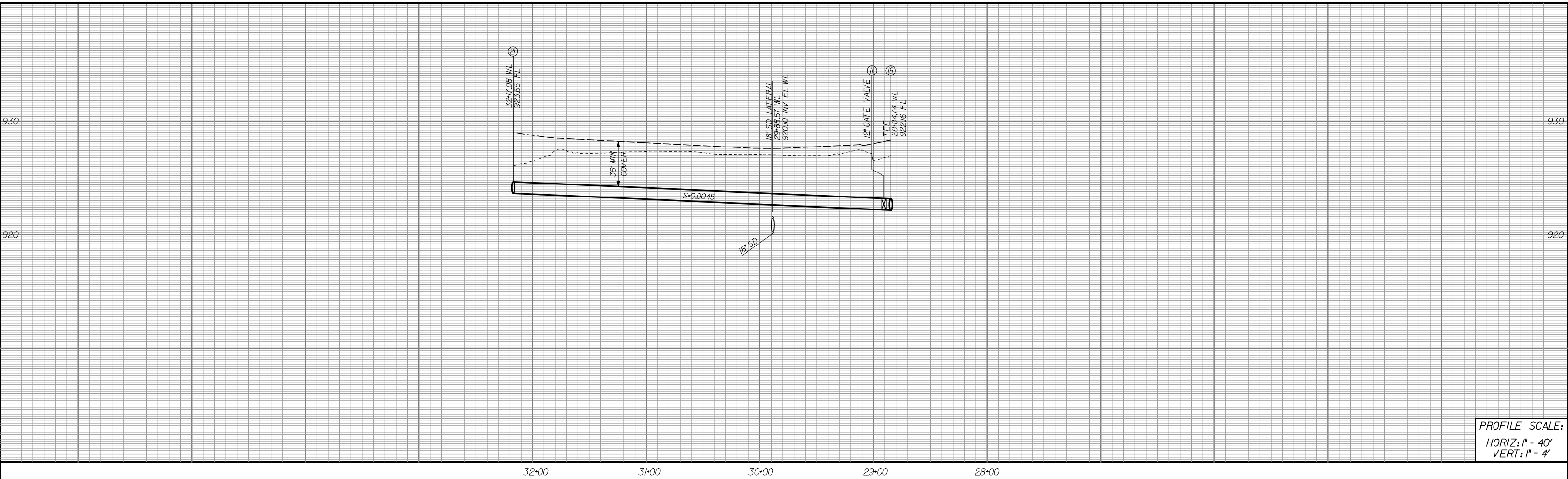
CHECKED BY: DM
RECOMMENDED BY:

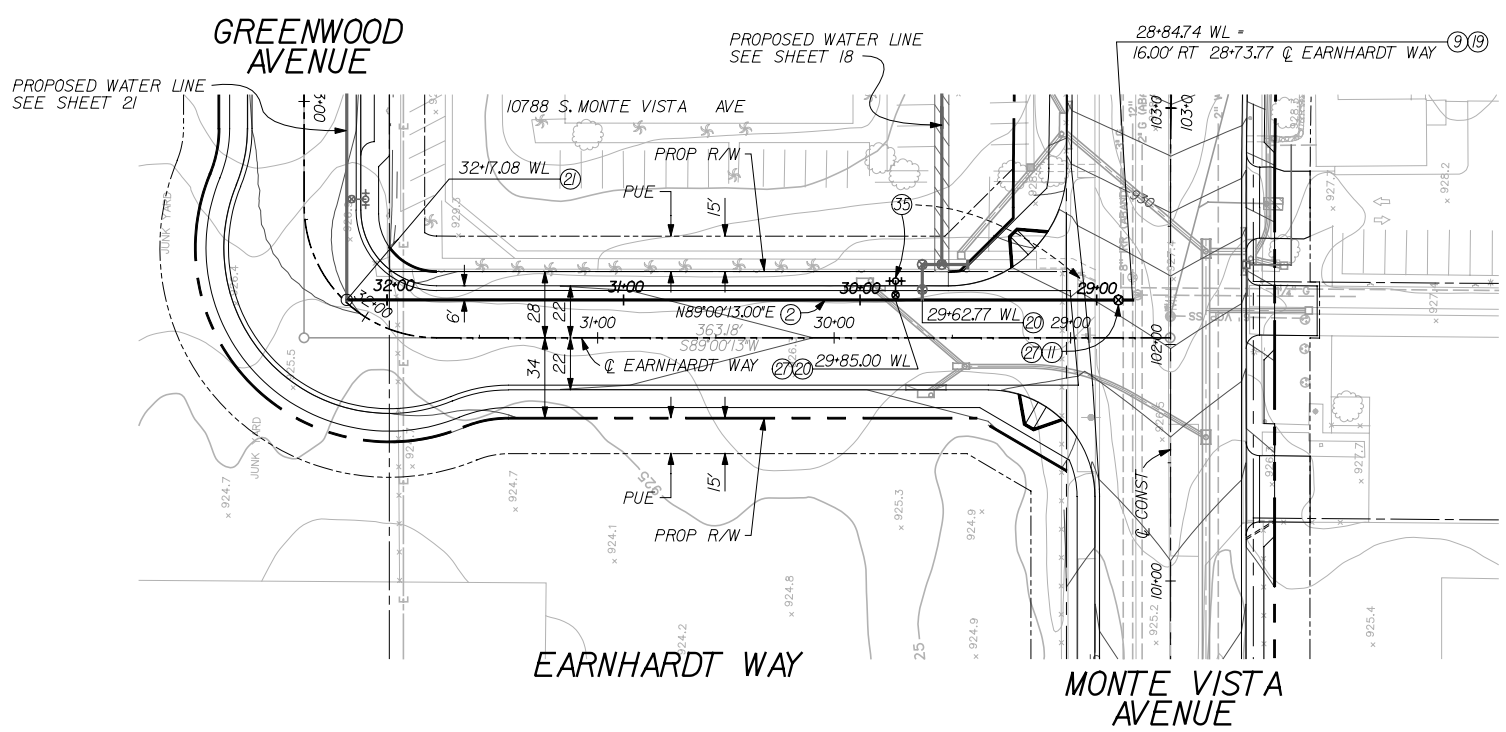
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

WATER IMPROVEMENTS
BROOKS STREET

CITY FILE NO
DRAWING NO
SHEET 19 OF 82 SHEETS





WATER CONSTRUCTION NOTES

2. CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
9. CONNECT TO EXISTING WATERLINE – LAP WELD
11. INSTALL 12" GATE VALVE; FLANGED
19. INSTALL 12" X 12" X 12" TEE; FLANGED – WELDED
20. INSTALL 12" X 12" X 6" TEE; FLANGED – WELDED
21. INSTALL 12" – 90° BEND; WELDED
27. SLIP-ON WELD FLANGE
35. SALVAGE EXISTING FIRE HYDRANT. RE-INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MVWD-11

SCALE 1"=40'

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MONTCLAIR, CALIFORNIA 91763
(909) 624-0035

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STATE OF CALIFORNIA

LIM & NASCIMENTO ENG. CORP.
1867 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

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MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
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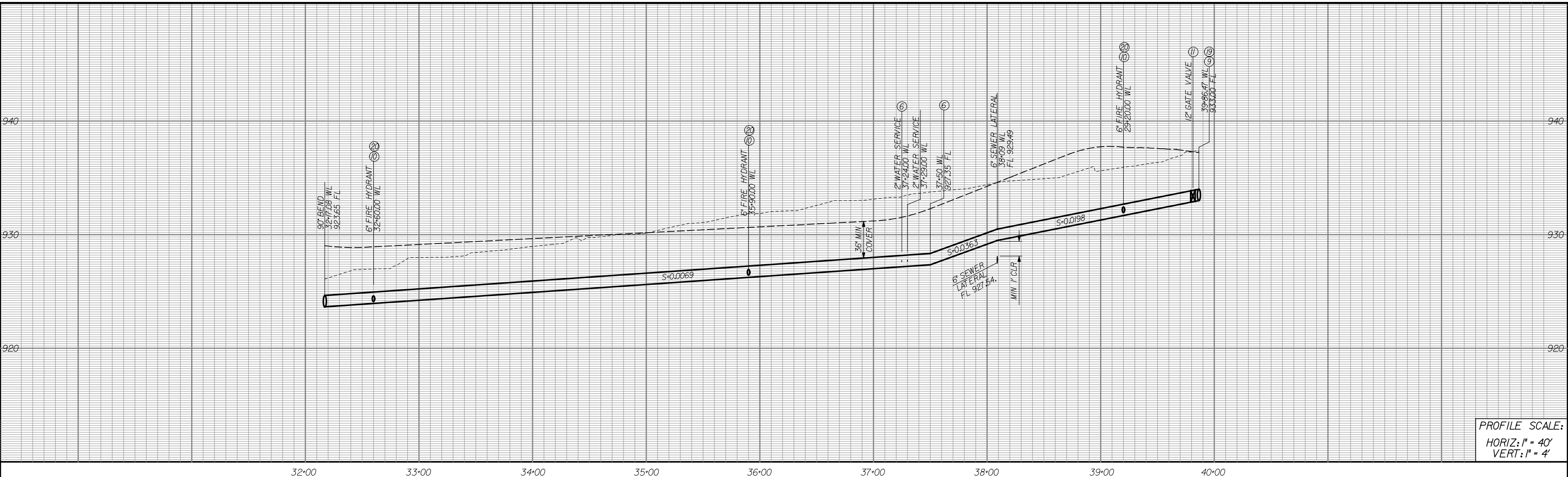
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

WATER IMPROVEMENTS
EARNHARDT WAY

CITY FILE NO
DRAWING NO
SHEET 20 OF 82 SHEETS



PROFILE SCALE:
HORIZ: 1" = 40'
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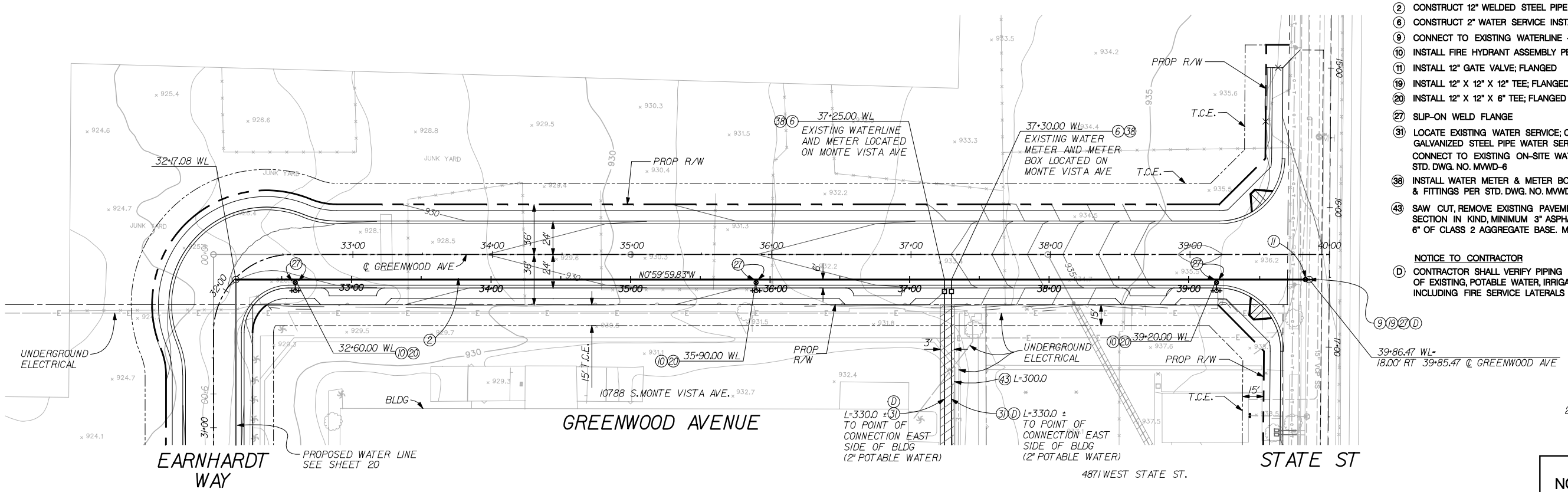
WATER CONSTRUCTION NOTES

- (2) CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- (6) CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD-6
- (9) CONNECT TO EXISTING WATERLINE – LAP WELD
- (10) INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG. NO. MVWD-11
- (11) INSTALL 12" GATE VALVE; FLANGED
- (19) INSTALL 12" X 12" X 12" TEE; FLANGED – WELDED
- (20) INSTALL 12" X 12" X 6" TEE; FLANGED – WELDED
- (27) SLIP-ON WELD FLANGE
- (31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD-6
- (38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MVWD-5 OR MVWD-6
- (43) SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".

NOTICE TO CONTRACTOR

(D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING, POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS



20 0 40 80
SCALE 1"=40'

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MONTCLAIR, CALIFORNIA 91763
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LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

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RECOMMENDED BY:

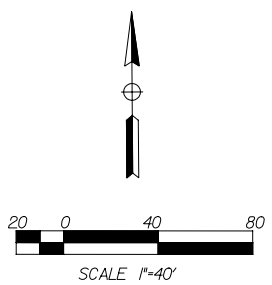
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

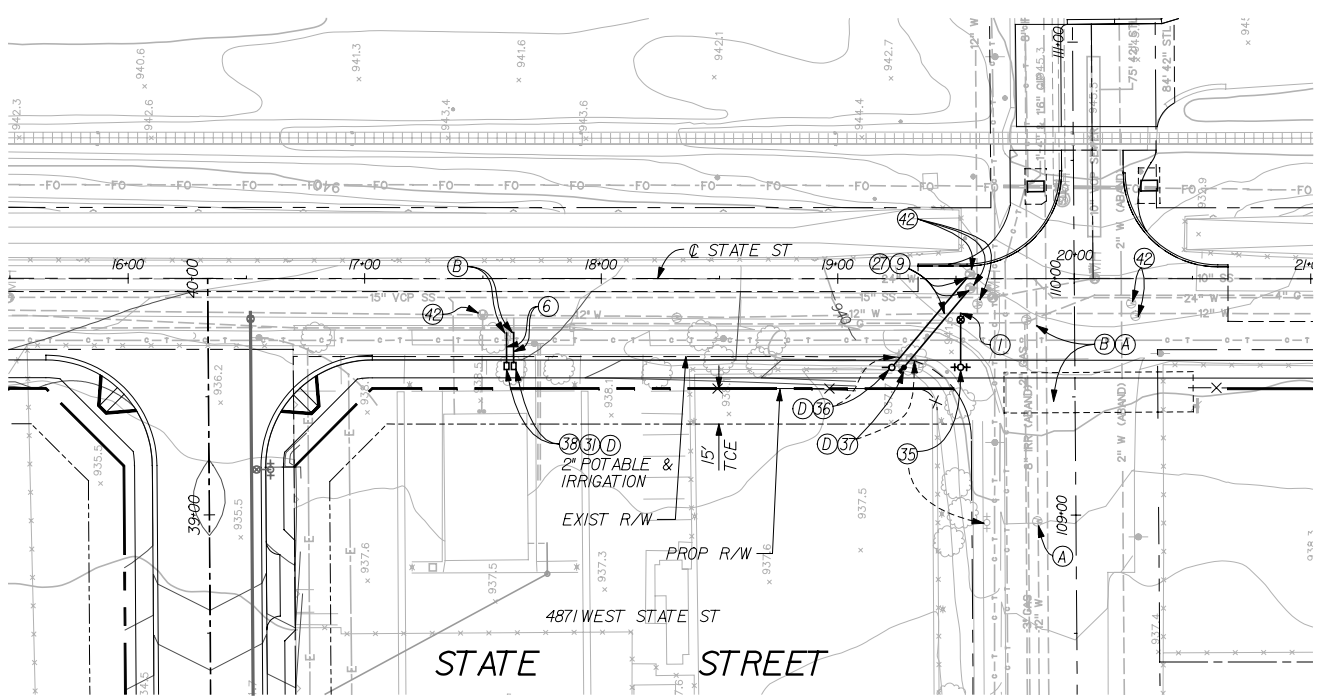
MONTE VISTA AVENUE
GRADE SEPARATION

WATER IMPROVEMENTS
GREENWOOD AVENUE

CITY FILE NO
DRAWING NO
SHEET 21 OF 82 SHEETS

PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'





GREENWOOD AVE

MONTE VISTA AVE

WATER CONSTRUCTION NOTES

(1) INSTALL 12" X 6" HOT TAP WITH 6" VALVE

(6) CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD-6

(9) CONNECT TO EXISTING WATERLINE – LAP WELD

(22) INSTALL 12" – 45° BEND; WELDED

(27) SLIP-ON WELD FLANGE

(31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" OR 1 1/2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD-6

(35) SALVAGE EXISTING FIRE HYDRANT. RE-INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MVWD-11

(36) SALVAGE EXISTING 4" AIR RELEASE VALVE AND ABOVE GROUND APPURTANCES; RE-INSTALL WITH NEW PIPING BEHIND CURB, EXTEND LATERAL FROM VALVE AND ADJUST RISER AS REQUIRED TO RELOCATE PER STD. DWG. NO. MVWD-15

(37) SALVAGE EXISTING 6" BLOW-OFF ASSEMBLY AND ABOVE GROUND APPURTANCES; RE-INSTALL WITH NEW PIPING AND FITTINGS BEHIND CURB, EXTEND LATERAL FROM VALVE AND ADJUST RISER AS REQUIRED TO RELOCATE PER STD. DWG. NO. MVWD-16

(38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MVWD-5 OR MVWD-6

(42) ADJUST EXISTING VALVE CAN AND COVER TO FINISH GRADE

REMOVALS

(A) ABANDON WATERLINE AND APPURTANCES PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

(B) REMOVE INTERFERING PORTIONS OF EXISTING WATERLINE

NOTICE TO CONTRACTOR

(D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS

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LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG

CHECKED BY: DM

RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

WATER IMPROVEMENTS
STATE STREET

CITY FILE NO

DRAWING NO

SHEET 22 OF 82 SHEETS

GENERAL NOTES P.R.V. SYSTEM

P.R.V. Station per Monte Vista Water District Standard

1. WELDED PIPE LENGTHS TO BE USED ONLY UPON APPROVAL BY M.V.W.D.
2. WELDED LENGTHS INDICATED ARE TO BE PROVIDED ON EACH SIDE OF BEND.
3. ALL JOINTS WITHIN THE LENGTHS INDICATED SHALL BE FULL WELD, DOUBLE PASS.
4. "DEAD END" THRUST IS EQUIVALENT TO A 60° BEND.
5. FOR SERVICE LATERALS, INCLUDING FIRE HYDRANTS, FIRE SERVICES, BLOW-OFFS ETC., FULLY WELD ALL MAINLINE JOINTS (DOUBLE PASS) 10' MINIMUM EACH SIDE OF TEE OUTLET.

THE FOLLOWING ASSUMPTIONS APPLY

1. LENGTH OF WELDED PIPE IS FOR EACH SIDE OF BEND USING THE FOLLOWING EQUATION:

$L = 1.5PA\,(1-\cos\Delta)\,/\,[U(W_w + W_p + W_e)]$

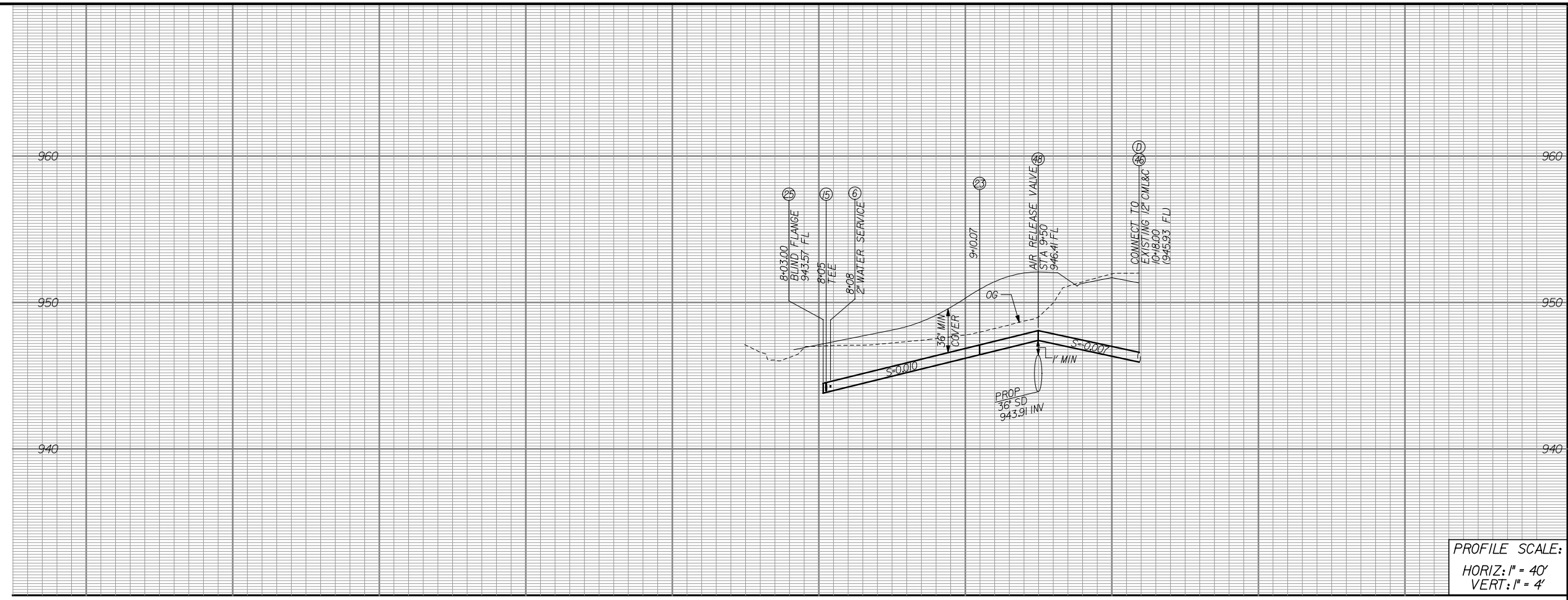
WHERE:
- P = MAXIMUM TEST PRESSURE (PSI)
- A = CROSS-SECTION AREA OF THE PIPE (SQ.IN.)
- Δ = ANGLE OF BEND (DEGREES)
- U = COEFF. OF FRICTION BETWEEN PIPE AND SOIL (ASSUMED 0.3)
- W_e = WEIGHT OF THE PRISM OR SOIL OVER THE PIPE (LB/FT.) OF PIPE LENGTH (WT. OF SOIL ASSUMED TO BE 110 LB/CU.FT.)
- W_p = WEIGHT OF THE PIPE (LB/FT)
- W_w = WEIGHT OF THE CONTAINED WATER (LB/FT)

2. MINIMUM PIPE COVER FOR PIPE DIAMETERS < 12", 4' MINIMUM PIPE COVER FOR PIPE DIAMETERS > 12"
3. FACTOR OF SAFETY = 1.5 TIMES MAXIMUM TEST PRESSURE
4. MAXIMUM ANGLE (A) USED FOR EACH RANGE SHOWN

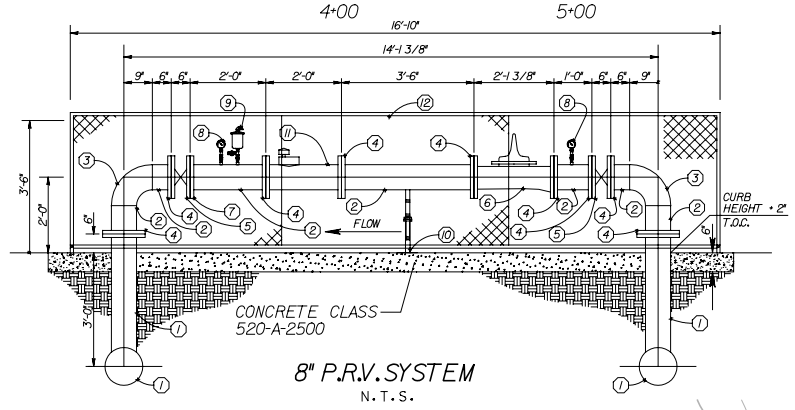
PIPE DIA.	INSTALLATIONS GREATER THAN CLASS 100 UP TO CLASS 150 (MAX.) ANGLE OF BEND. 0-22.5°	22.5°-45°	45°-67.5°	76.5°-90°
4"	10'	30'	50'	105'
6"	15'	45'	95'	150'
8"	15'	60'	125'	160'
10"	20'	75'	150'	240'
12"	20'	70'	140'	230'
14"	20'	80'	165'	265'
16"	25'	90'	185'	295'
18"	25'	100'	205'	330'
20"	30'	105'	225'	360'
24"	35'	125'	260'	420'
30"	40'	150'	310'	505'
36"	45'	170'	360'	580'

P.R.V SYSTEM MATERIALS LIST

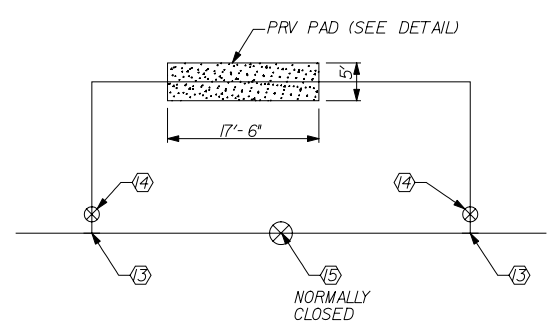
1. INSTALL 8" DIA. STEEL PIPE, 10 GA MIN., CML & CMC ..... 32 LF.
2. INSTALL 8-5/8" O.D. STEEL PIPE, STD. WT., CML & CMC OR CML & PAINTED ..... 18 LF.
3. INSTALL 8" STEEL-90° WELD ELBOW, STD. WT., CML & CMC ..... 4 EA.
4. INSTALL 8" STEEL SLIP-ON WELD FLANGE, CL. 150 ..... 9 EA.
5. INSTALL 8" BUTTERFLY VALVE, FLANGED, CL. 150. W/HANDWHEEL OPERATOR ..... 2 EA.
6. INSTALL 8" PRESSURE REGULATING VALVE, FLANGED, CL. 150. ..... 1 EA.
7. INSTALL 8" VICTAULIC FLANGE, STYLE 743 ..... 1 EA.
8. INSTALL LIQUID FILLED PRESSURE GAUGE ASSEMBLY WITH 3/4" COUPLING AND CORP. STOP .. 2 EA.
9. INSTALL 1" AIR RELEASE VALVE APCO, MODEL 200A WITH 1" COUPLING ..... 1 EA. AND CORP. STOP.
10. INSTALL PIPE SUPPORT PER MVWD STD. DWG. NO. MVWD-21 ..... 1 EA.
11. INSTALL 8" FLANGED WATER SPECIALTIES MODEL NO. ML-04-D FLOWMETER, REGISTER ..... 1 EA. IN GPM AND TOTALIZE IN 100'S CUBIC FEET.
12. INSTALL 20' 3/8"L x 30"W x 42"D FABRICATED ENCLOSURE PER LEMEUR MANUFACTURING ..... 1 EA.
13. INSTALL 12 x 12 x 8 A.W.W.A. TEE ..... 2 EA.
14. INSTALL 8" GATE VALVE PER MVWD STD. DWG. NO. MVWD-12 ..... 2 EA.
15. INSTALL 12" GATE VALVE PER MVWD STD. DWG. NO. MVWD-12 ..... 1 EA.



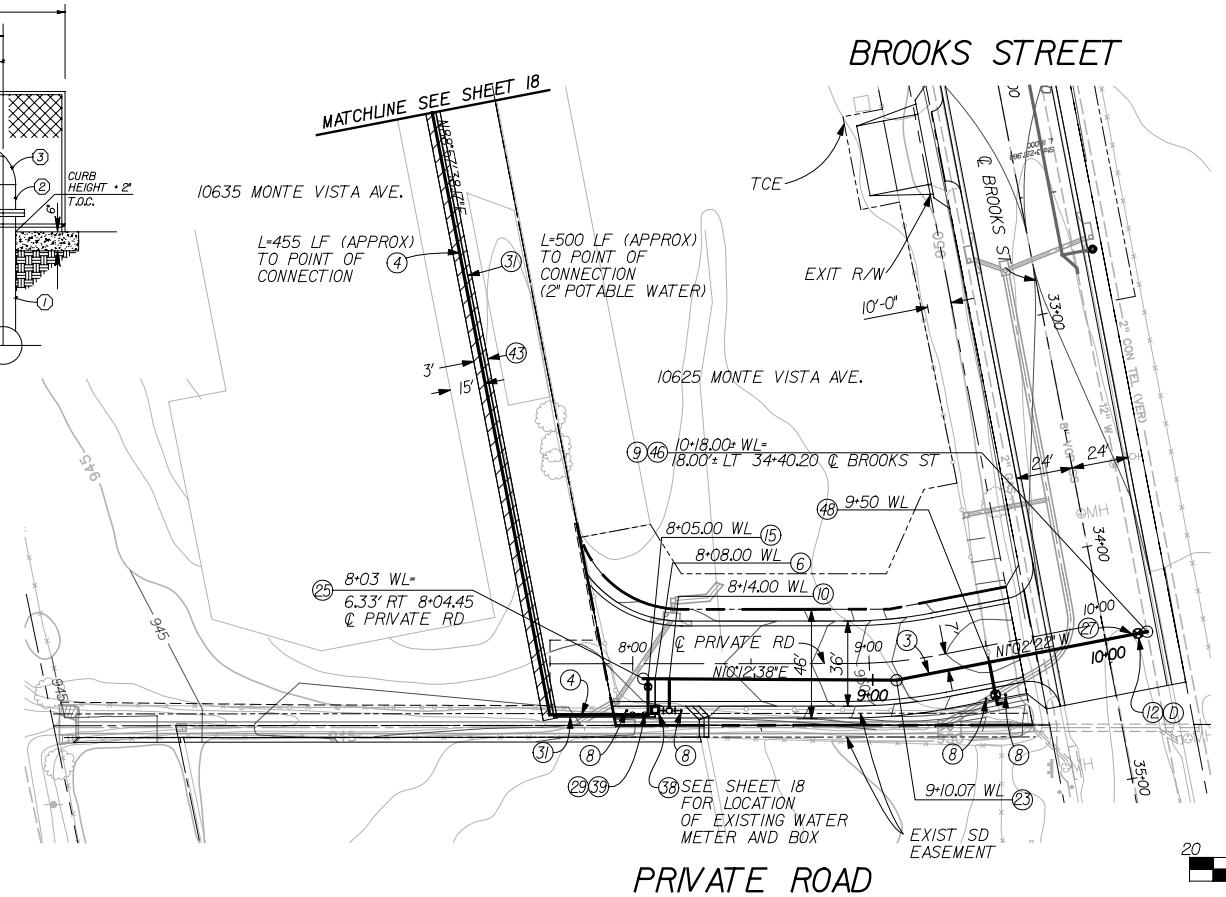
PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'



8" P.R.V. SYSTEM
N.T.S.



PROPOSED P.R.V. STATION
N.T.S.



WATER CONSTRUCTION NOTES

- (3) CONSTRUCT 8" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- (4) CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- (6) CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MVWD-6
- (8) CONSTRUCT 4" STEEL PIPE GUARD POST FILLED WITH CONCRETE PER STD. DWG. MVWD-20
- (9) CONNECT TO EXISTING WATERLINE – LAP WELD
- (10) INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG. NO. MVWD-11
- (12) INSTALL 8" GATE VALVE; FLANGED
- (15) INSTALL 8" X 8" X 6" TEE; FLANGED – WELDED
- (23) INSTALL 8" – 11.25 BEND; WELDED
- (25) INSTALL 8" BLIND FLANGE; FLANGED
- (27) SLIP-ON WELD FLANGE
- (28) INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
- (29) INSTALL 2 1/2" X 2 1/2" X 4" FIRE DEPARTMENT CONNECTION WITH POST INDICATOR AND VALVES
- (31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MVWD-6
- (38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MVWD-5 OR MVWD-6
- (39) INSTALL 6" DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE PER STD. DWG. NO. MVWD-9 AND MVWD-10
- (43) SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".
- (46) 12" X 8" CML&C HOT TAP; BY MONTE VISTA WATER DISTRICT
- (48) INSTALL 2" AIR VALVE, INSTALLATION PER STD. DWG. MVWD-14
- (49) INSTALL 8"X8"X4" TEE-WELDED

NOTICE TO CONTRACTOR

- (D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION AND LINE CONNECTIONS INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

MONTE VISTA WATER DISTRICT
10575 CENTRAL AVENUE
MONTCLAIR, CALIFORNIA 91763
(909) 624-0035

APPROVED BY ____ DATE ____

DOUGLAS ENGINEERNG
414 TENNESSEE ST, SUITE "G"
REDLANDS, CA 92373

DOUGLAS H. MAYS R.C.E. 21062
MY LICENSE EXPIRES 09-30-07

DATE ____

REGISTERED PROFESSIONAL ENGINEER DOUGLAS H. MAYS No. C 21062 Exp. 09/30/07 CIVIL STATE OF CALIFORNIA

LIM & NASCIMENTO ENG. CORP.
1867 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

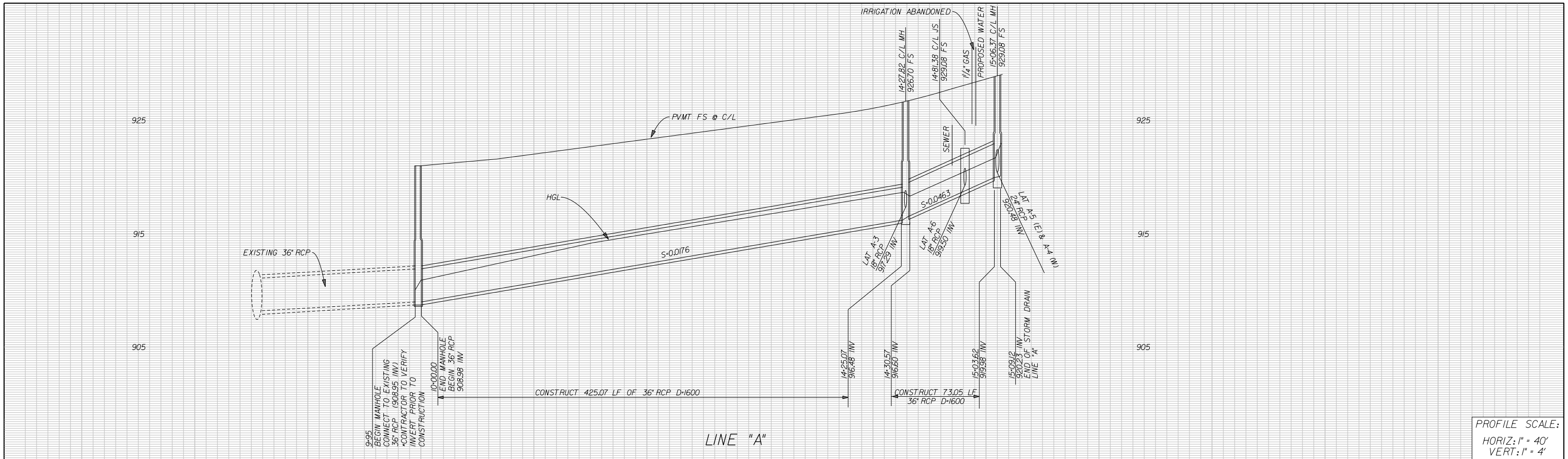
APPROVED ____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. ____
MY LICENSE EXPIRES ____
DRAWN BY: ESG
CHECKED BY: DM
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

WATER IMPROVEMENTS
PRIVATE ROAD

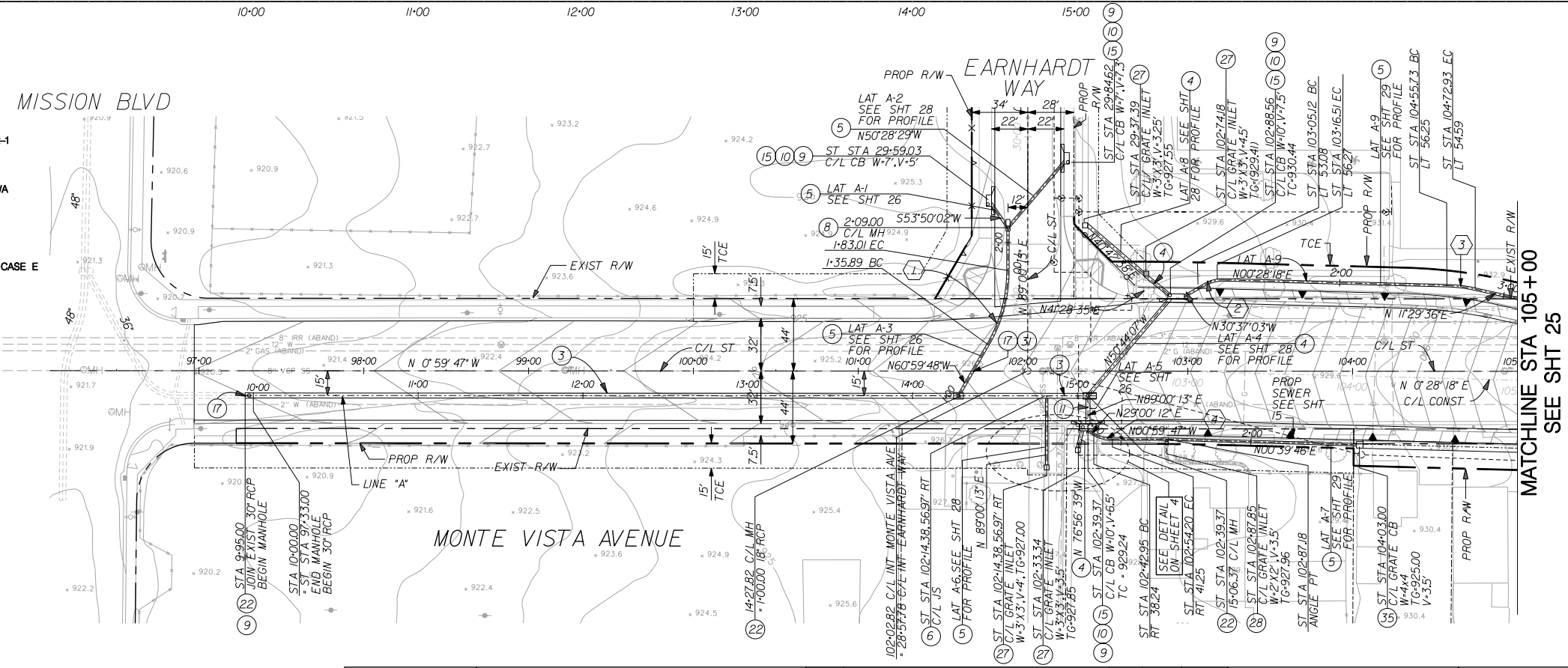
CITY FILE NO
DRAWING NO
SHEET 23 OF 82 SHEETS



PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

CONSTRUCTION NOTES

- (3) CONSTRUCT 36" RCP
- (4) CONSTRUCT 24" RCP
- (5) CONSTRUCT 18" RCP
- (6) CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
- (8) CONSTRUCT MANHOLE PER APWA STD PLAN 321-1
- (9) CONSTRUCT 36-INCH MANHOLE FRAME AND COVER PER APWA STD PLAN 633-3
- (10) CONSTRUCT CATCH BASIN PER APWA STD PLAN 300-2
- (11) CONSTRUCT 30" RCP
- (15) CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-0, CASE E
- (17) CONSTRUCT CONCRETE COLLAR PER APWA STD PLAN 380-2
- (22) CONSTRUCT MANHOLE PER APWA STD PLAN 320-1
- (27) CONSTRUCT 3'X3' PRECAST CATCH BASIN W/TRAFFIC GRATE. BROOKS PRODUCT OR APPROVED EQUAL
- (28) CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
- (31) CONSTRUCT CONCRETE ENCASING
- (35) CONSTRUCT 4' x 4' BROOKS GRATED INLET W/TRAFFIC GRATE



CURVE DATA				
NO	△	R	L	T
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2	31°05'21"	22.50'	12.21'	6.26'
3	11°01'18"	90.00'	17.31'	8.68'
4	30°00'00"	22.50'	11.78'	6.03'

SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER PORTIA GONZALEZ No. C 52302 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

LIM & NASCIMENTO ENG. CORP.
18887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06

DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: ESG
CHECKED BY: PG
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

STORM DRAIN IMPROVEMENTS
LINE "A"

CITY FILE NO
DRAWING NO
SHEET 24 OF 82 SHEETS

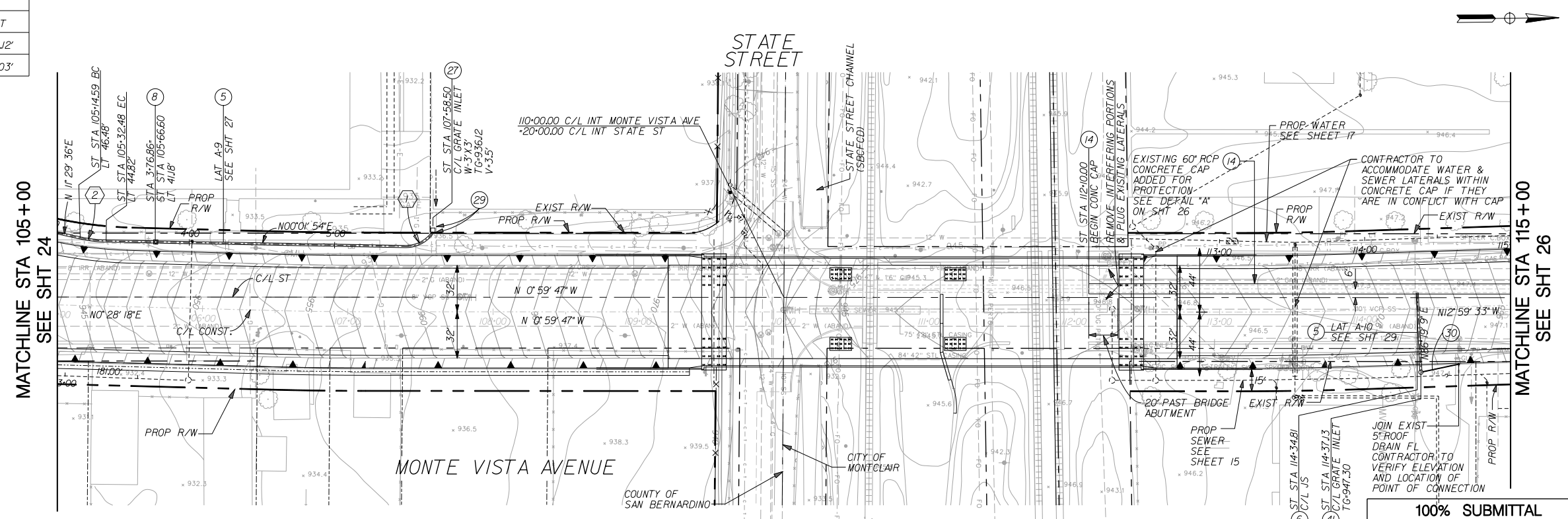
\Plans\D-GN24drain.dgn 7/7/2006 11:42:16 AM

PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

CURVE DATA				
NO	△	R	L	T
1	56°37'38"	22.50'	22.24'	12.12'
2	11°27'42"	90.00'	18.00'	9.03'

CONSTRUCTION NOTES

5. CONSTRUCT 18" RCP
6. CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
8. CONSTRUCT MANHOLE SHAFT PER APWA STD PLAN 321-1
14. CONSTRUCT CONCRETE CAP OVER EXISTING 60" RCP, PER DETAIL "A" ON SHEET 26
27. CONSTRUCT 3'X3' PRECAST CATCH BASIN W/TRAFFIC GRATE. BROOKS PRODUCT OR APPROVED EQUAL
28. CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
29. SAWCUT AND REMOVE EXIST 3' RECTANGULAR PCC GUTTER TO ACCOMODATE DRAINAGE INLET
30. INSTALL 5" PVC (SCH 40)
41. CONSTRUCT PIPE INLET TYPE GCP PER CALTRANS STD PLAN D75B



100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

SCALE 1"=40'

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER PORTIA GONZALEZ No. C 52302 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06 DATE

LAN ENG JOB NO. COFMO202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: PG
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE GRADE SEPARATION
STORM DRAIN IMPROVEMENTS
LINE "A"

CITY FILE NO
DRAWING NO
SHEET 25 OF 82 SHEETS

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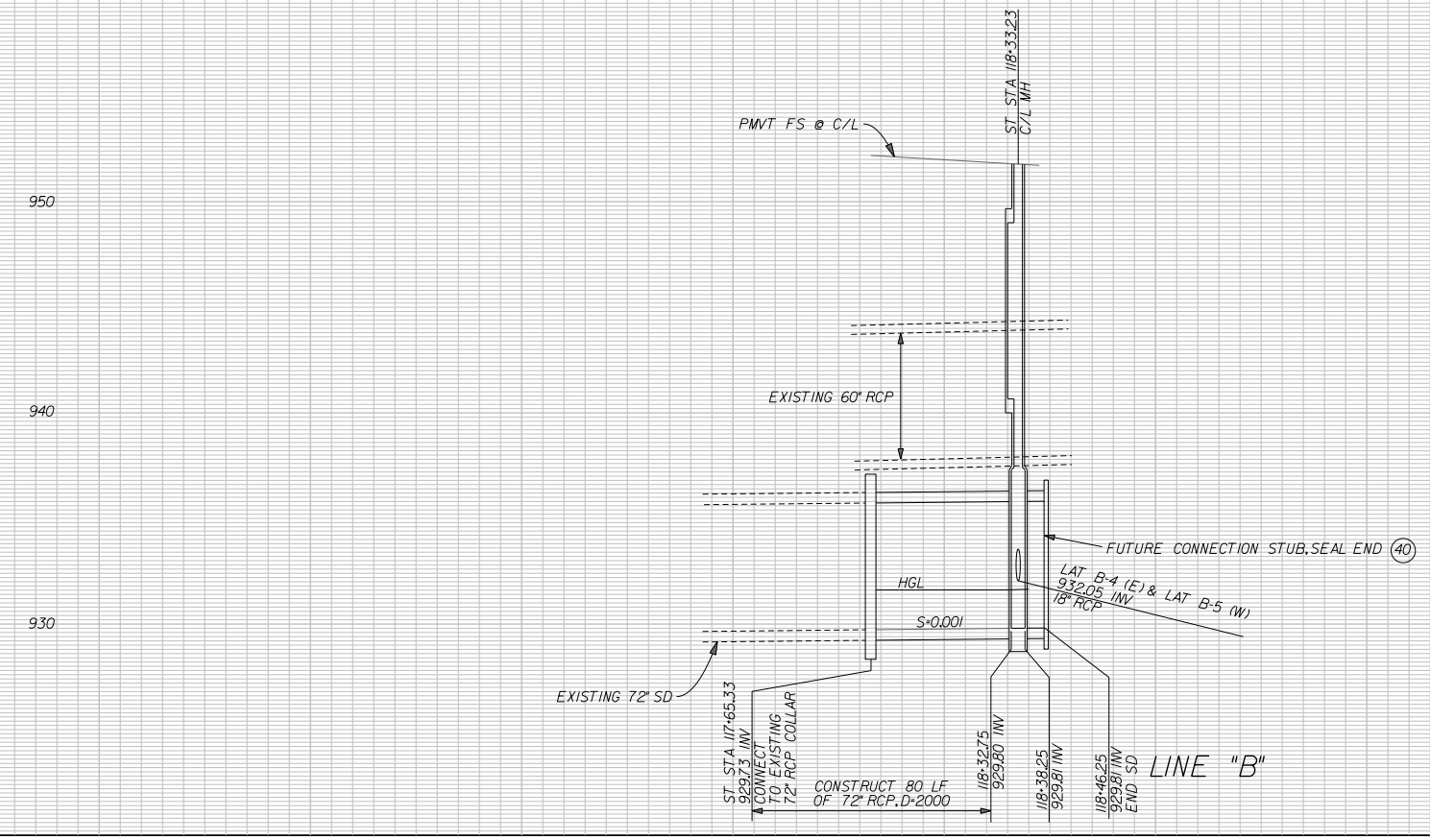
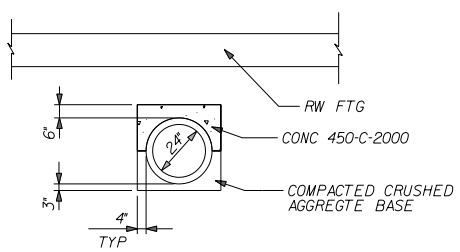


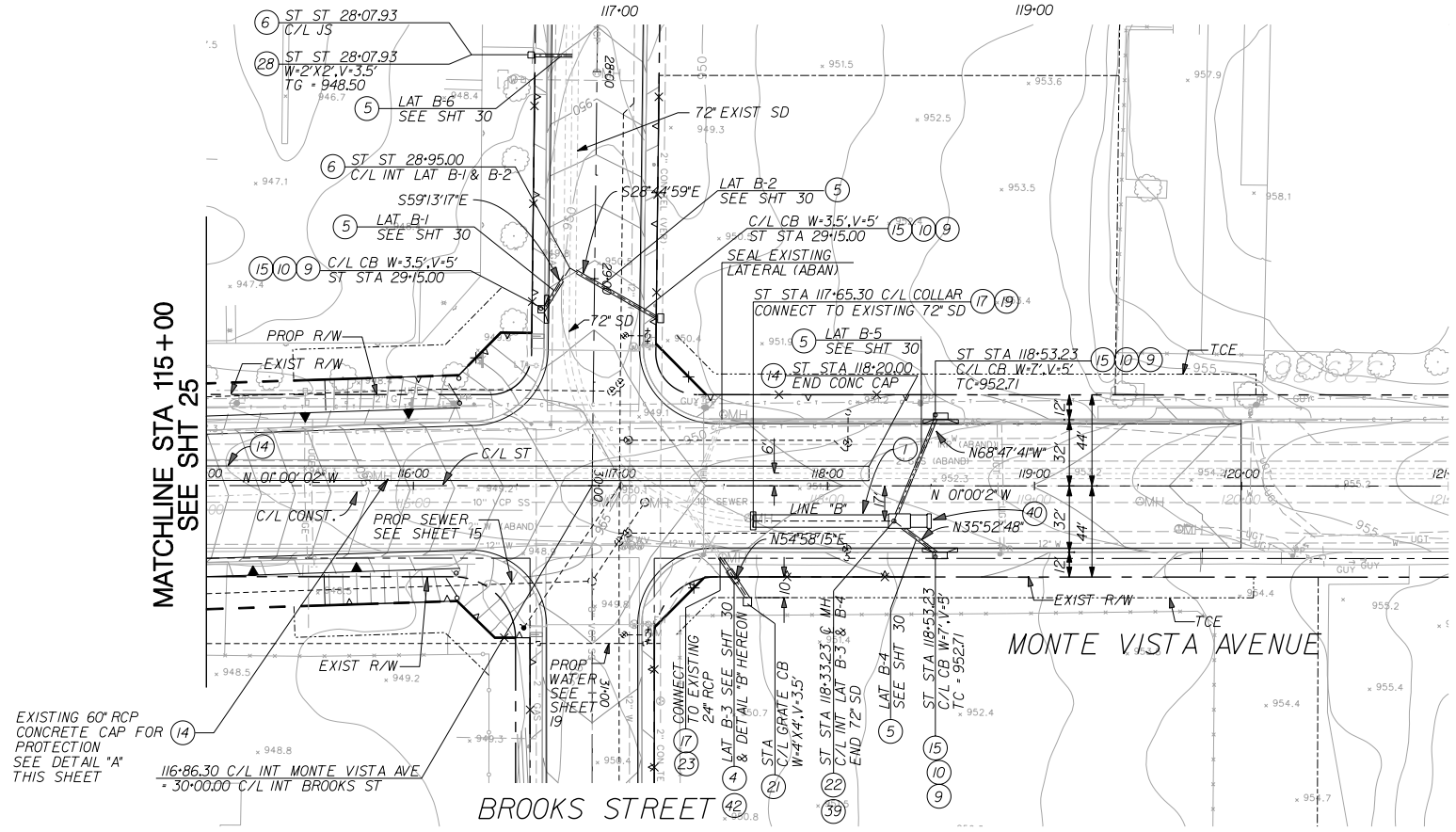
PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

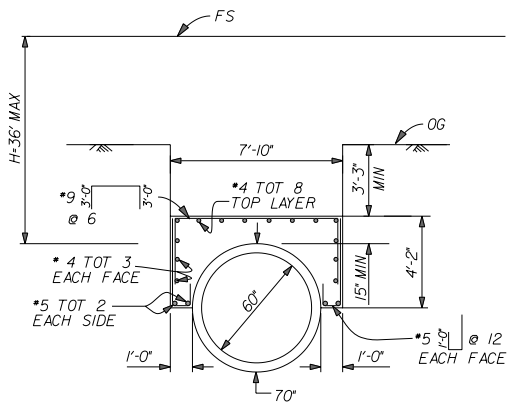
CONSTRUCTION NOTES

1. CONSTRUCT 72" RCP
3. CONSTRUCT 36" RCP
4. CONSTRUCT 24" RCP
5. CONSTRUCT 18" RCP
6. CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
9. CONSTRUCT 36-INCH MANHOLE FRAME AND COVER PER APWA STD PLAN 633-3
10. CONSTRUCT CATCH BASIN PER APWA STD PLAN 300-2
14. CONSTRUCT CONCRETE CAP OVER EXISTING 60" RCP, PER DETAIL "A" ON SHEET 26
15. CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-0, CASE E
17. CONSTRUCT CONCRETE COLLAR PER APWA STD PLAN 380-2
19. CONNECT TO EXISTING STORM DRAIN PIPE, REMOVE ANY PIPE CLOSURES
21. CONSTRUCT GRATING CATCH BASIN PER APWA STD PLAN 305-2
22. CONSTRUCT MANHOLE PER APWA STD PLAN 320-1
23. REMOVE EXISITING CATCH BASIN
28. CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
39. CONSTRUCT SAFETY LEDGE PER APWA STD PLAN 330-1
40. CONSTRUCT CONCRETE BULK HEAD PER RCFC STD DRAWING M816
42. CONSTRUCT CONCRETE ARCH & BEDDING FOR PROP 24" RCP



DETAIL "B" – CONCRETE ARCH & BEDDING FOR PROP 24" RCP
NOT TO SCALE





DETAIL "A" – CONCRETE CAP DETAIL PROTECTION FOR EXISTING 60" RCP
NOT TO SCALE

20 0 40 80
SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

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Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER PORTIA GONZALEZ No. C 52302 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06 DATE

LAN ENG JOB NO. COFM0202

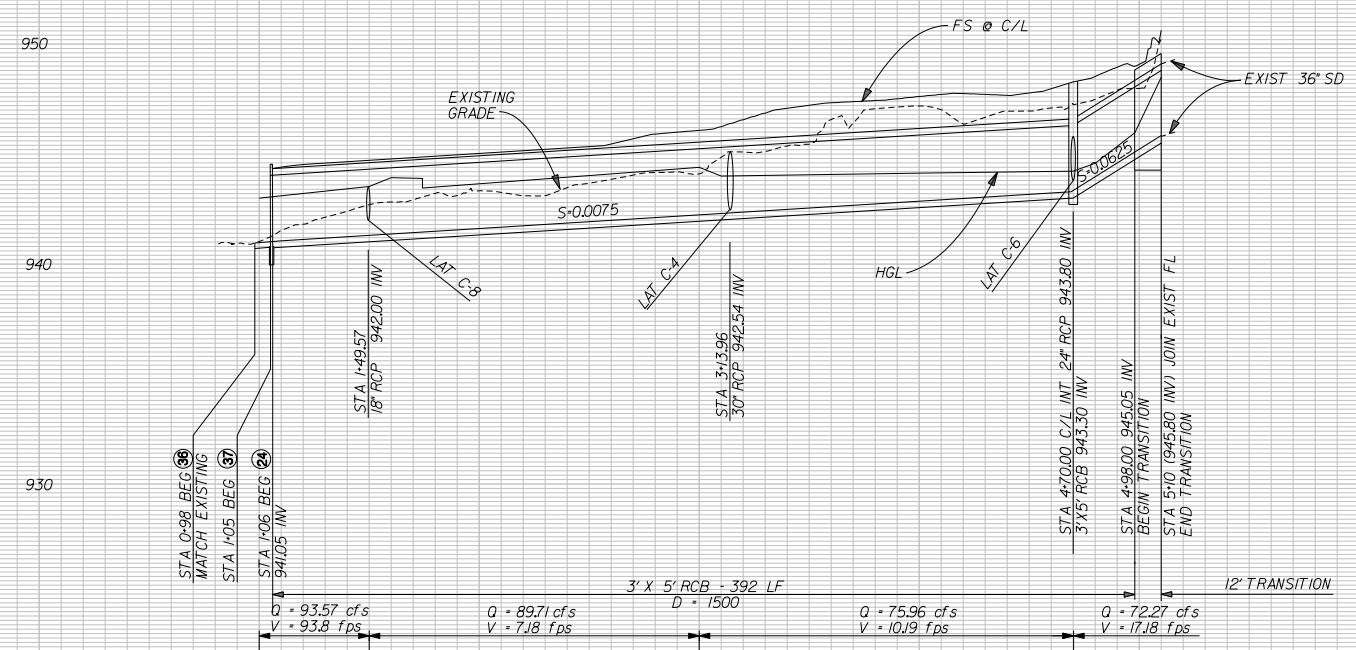
MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: PG
RECOMMENDED BY:

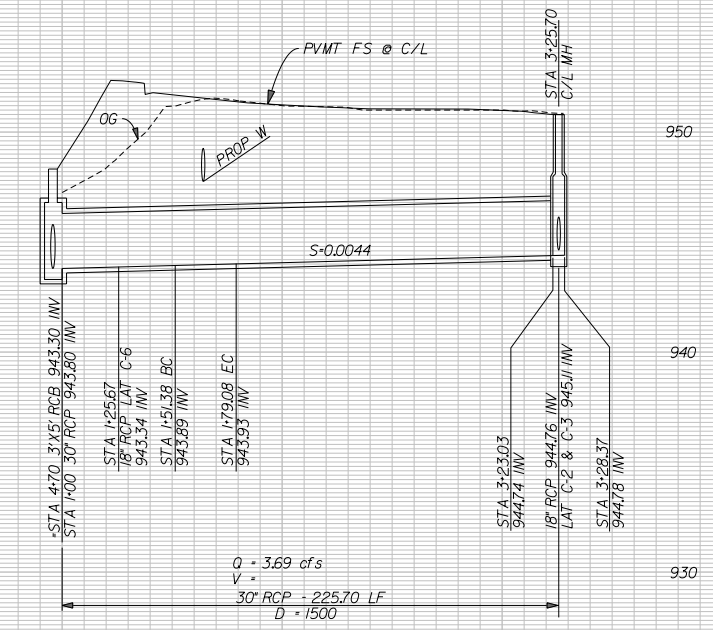
CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE GRADE SEPARATION
STORM DRAIN IMPROVEMENTS
LINE "B"

CITY FILE NO
DRAWING NO
SHEET 26 OF 82 SHEETS

\Plans\DGN\26drain.dgn 7/7/2006 11:45:39AM



LINE "C"



LATERAL C-1

PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

CONSTRUCTION NOTES

(5) CONSTRUCT 18" RCP

(6) CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1

(8) CONSTRUCT MANHOLE PER APWA STD PLAN 321-1

(9) CONSTRUCT 36-INCH MANHOLE FRAME AND COVER PER APWA STD PLAN 633-3

(10) CONSTRUCT CATCH BASIN PER APWA STD PLAN 300-2

(11) CONSTRUCT 30" RCP

(12) CONSTRUCT CONCRETE OUTLET STRUCTURE PER S.B.C.F.C.D. STD PLAN 209

(15) CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-0, CASE E

(19) CONNECT TO EXISTING STORM DRAIN PIPE, REMOVE ANY PIPE CLOSURES

(24) CONSTRUCT 5' X 3' RCB (1500D)

(25) CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 333-1

(26) CONSTRUCT TRANSITION STRUCTURE PER APWA STD PLAN 342-1

(28) CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE

(32) CONSTRUCT 3' RIBBON GUTTER PER CITY OF MONTCLAIR STD 106

(33) CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-1, CASE B

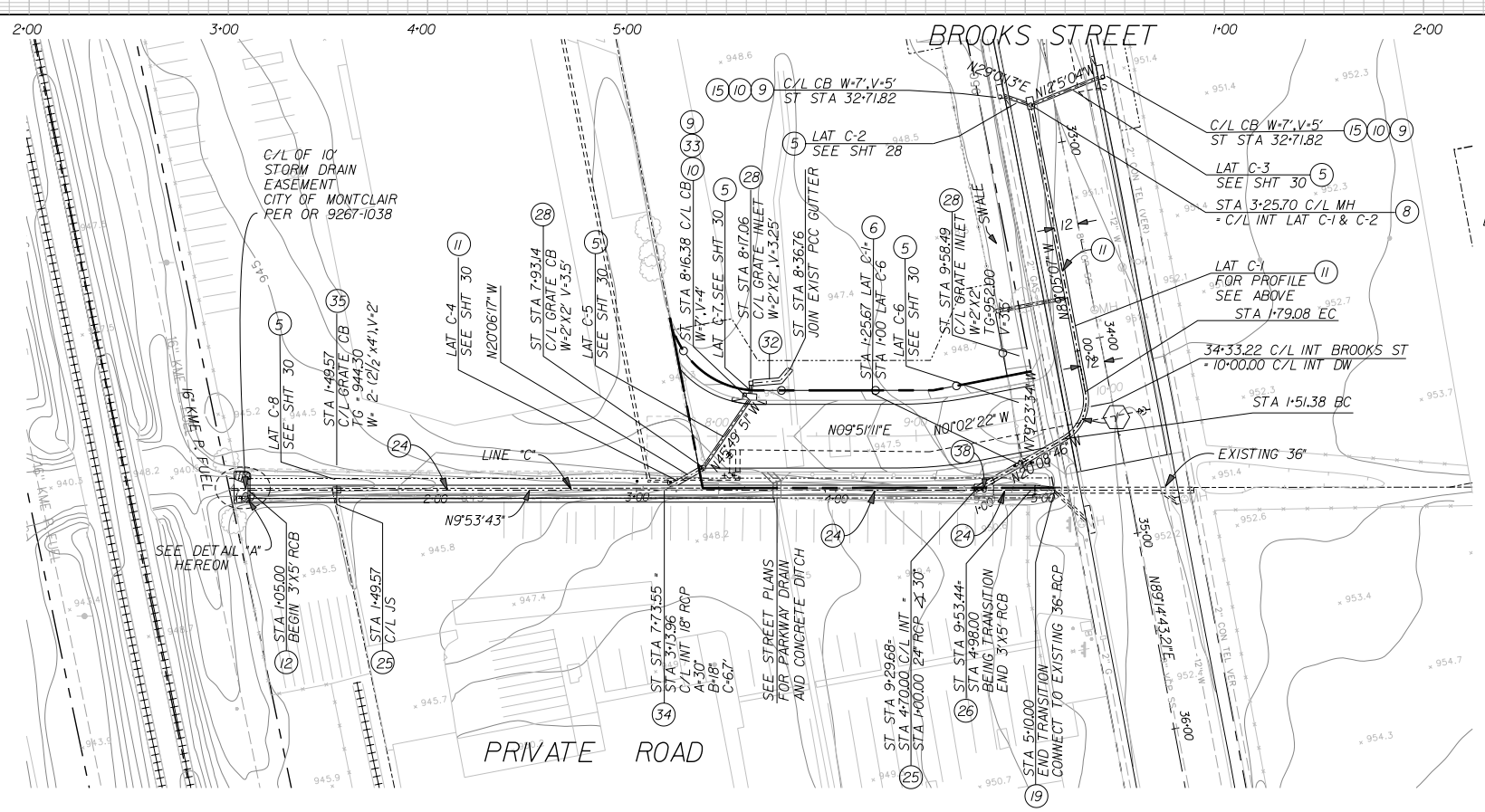
(34) CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 333-1

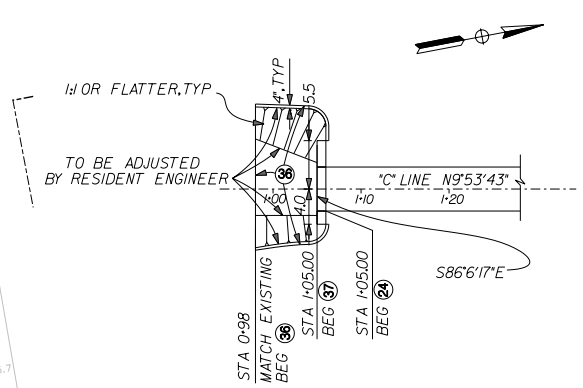
(35) CONSTRUCT 2.5' x 4' BROOKS GRATED INLET W/TRAFFIC GRATE

(36) CONSTRUCT 0.25' AC LINING

(37) CONSTRUCT RCB HEADWALL, WINGWALL TYPE "D" PER CALTRANS STD PLAN D82, D84

(38) CONSTRUCT MANHOLE PER APWA STD PLAN 323-1





DETAIL "A"
SCALE 1"=10'

CURVE DATA				
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20 0 40 80
SCALE 1"=40'

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER PORTIA GONZALEZ No. C 52302 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06 DATE

LAN ENG JOB NO. COFMO202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: PG
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STORM DRAIN IMPROVEMENTS
LINE "C"

CITY FILE NO
DRAWING NO
SHEET 27 OF 82 SHEETS

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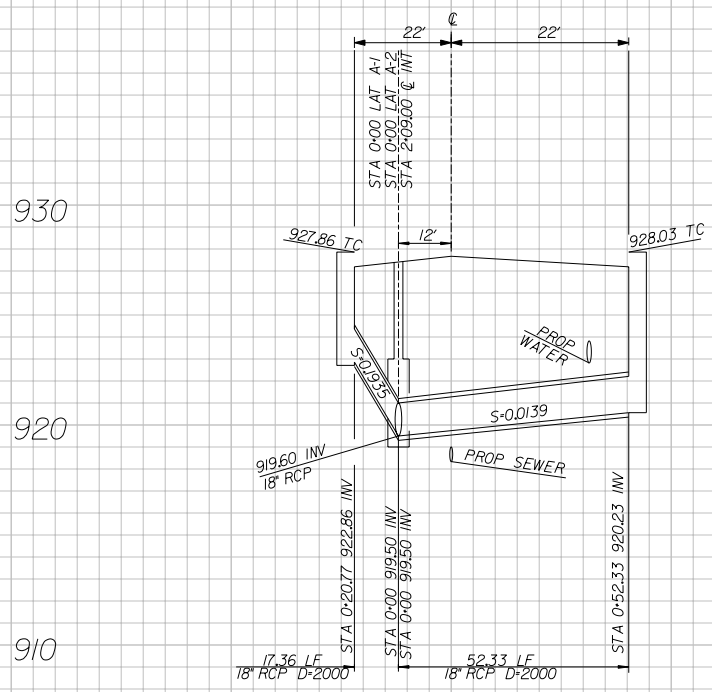
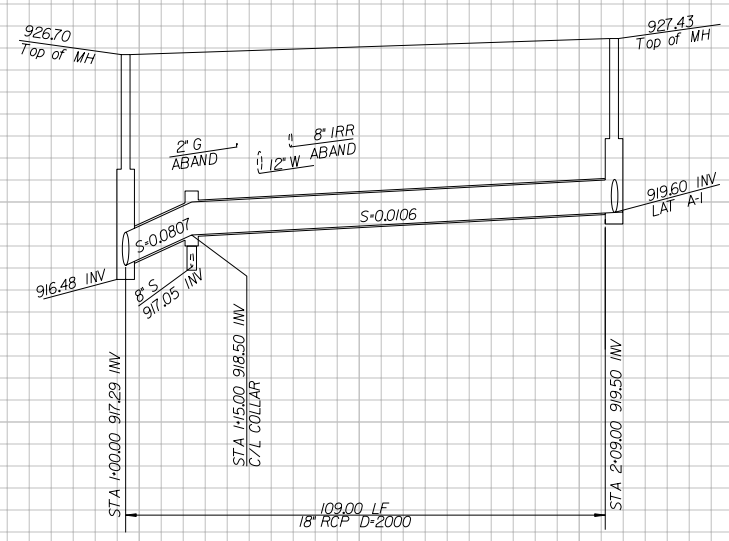
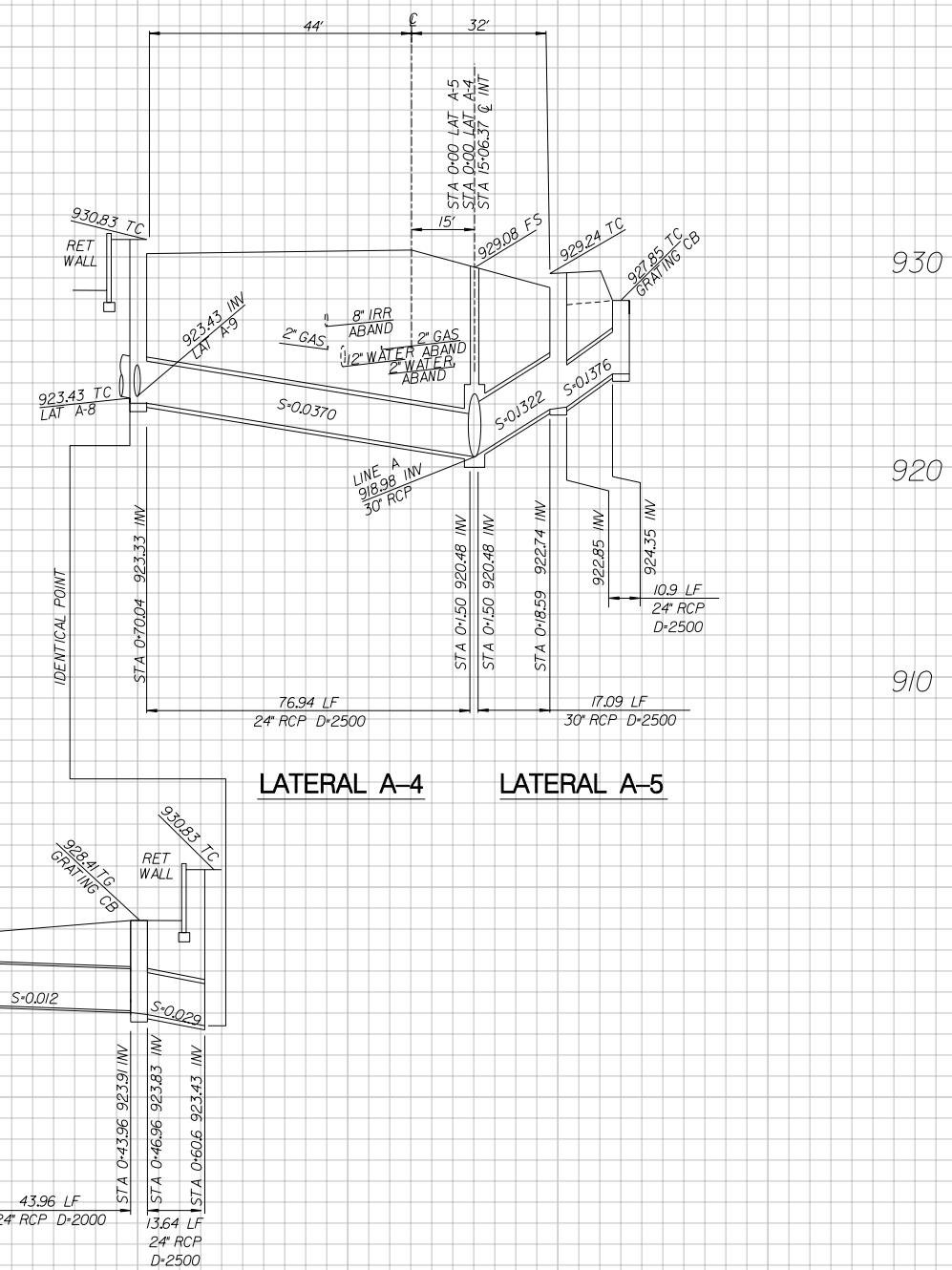


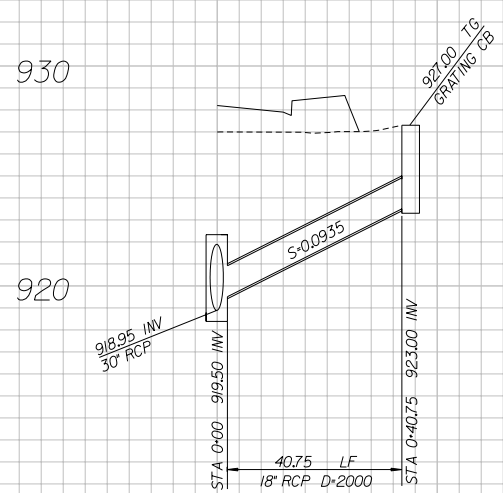
LATERAL A-1 LATERAL A-2



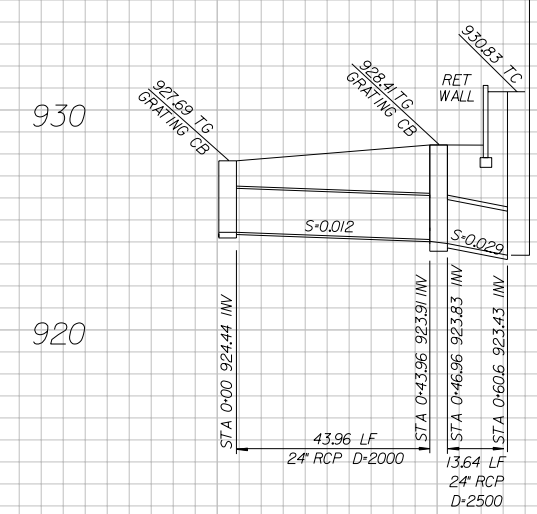
LATERAL A-3



LATERAL A-4 LATERAL A-5



LATERAL A-6



LATERAL A-8

1" = 4' VERT
1" = 20' HORIZ

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE
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422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
PORTIA GONZALEZ
No. C 52302
Exp. 12/31/06
CIVIL
STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR, STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06
DATE

LAN ENG JOB NO. COFM0202

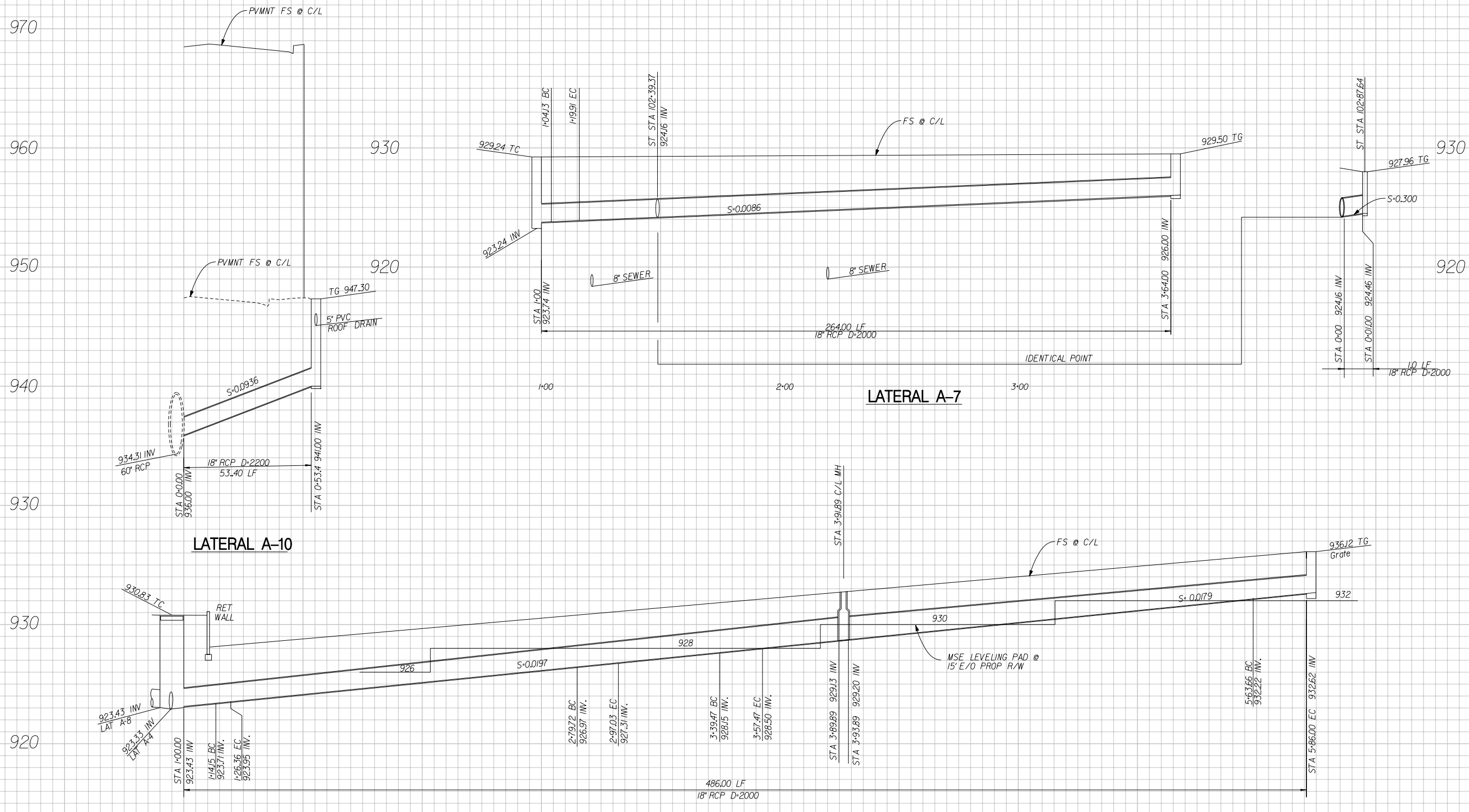
MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: FO
CHECKED BY: PG
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STORM DRAIN IMPROVEMENTS
LATERAL PROFILES
A-1 THROUGH A-6 & A-8

CITY FILE NO
DRAWING NO
SHEET 28 OF 82 SHEETS

...\Plans\DGN\28drain_lateral.dgn 7/7/2006 11:46:47 AM



100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER PORTIA GONZALEZ No. C 52302 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06

DATE

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: FO
CHECKED BY: PG
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

STORM DRAIN IMPROVEMENTS
LATERAL PROFILES
A-7, A-9 & A-10

CITY FILE NO
DRAWING NO
SHEET 29 OF 82 SHEETS

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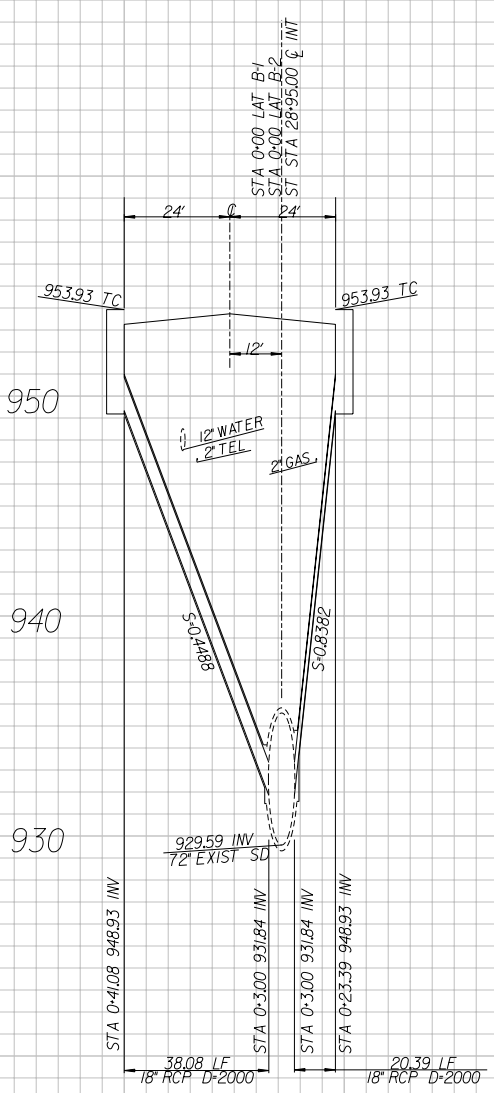
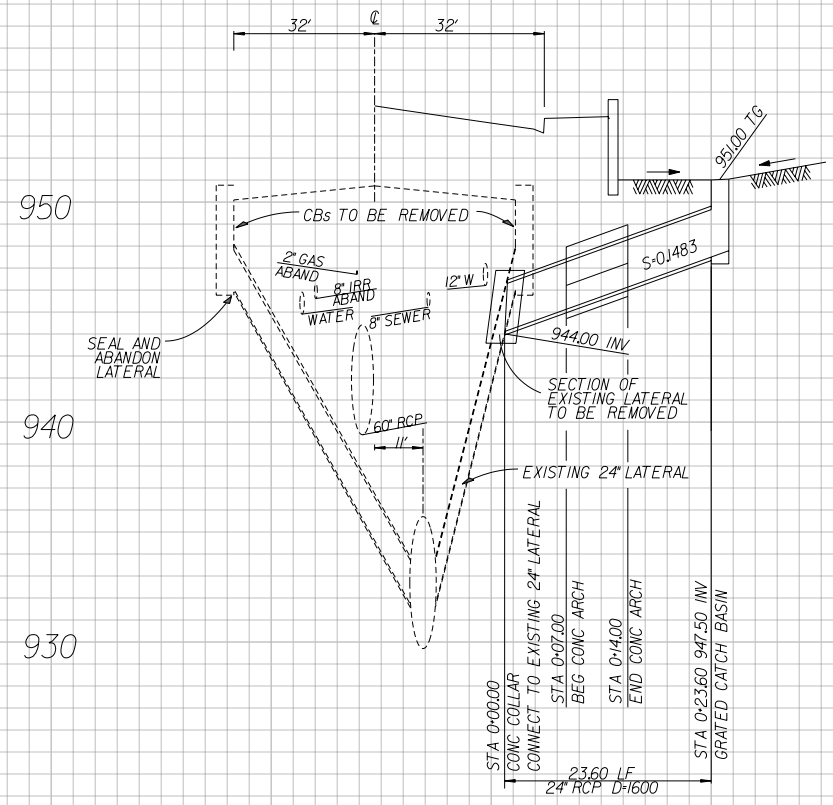


LATERAL B-2 LATERAL B-1



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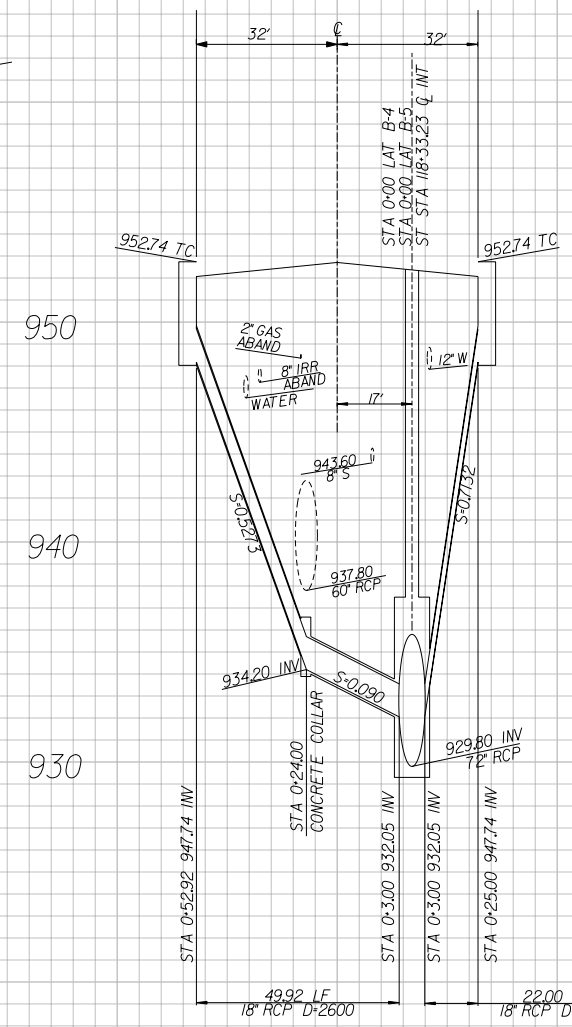
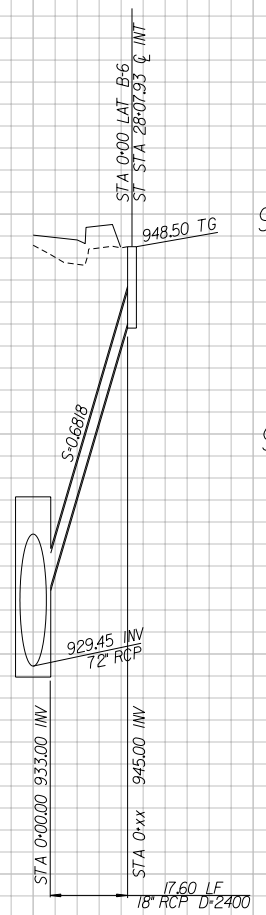
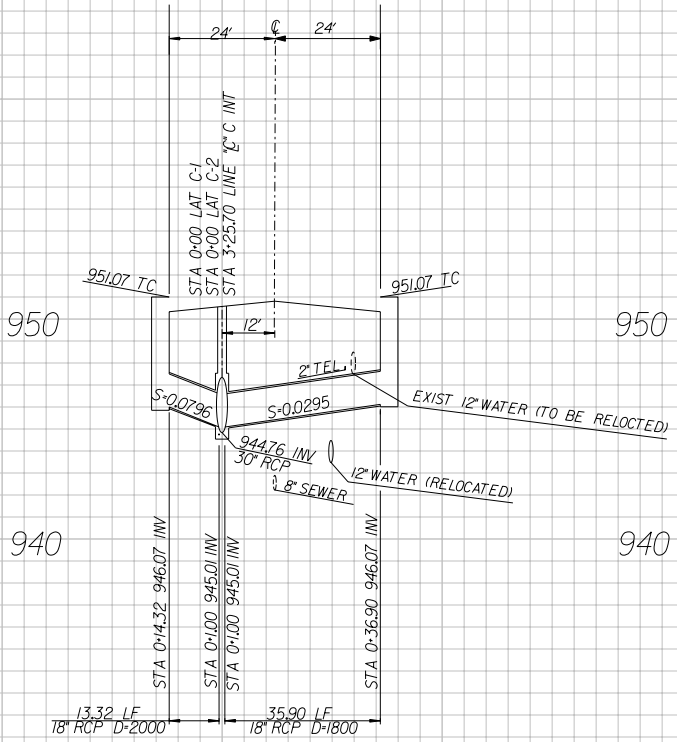


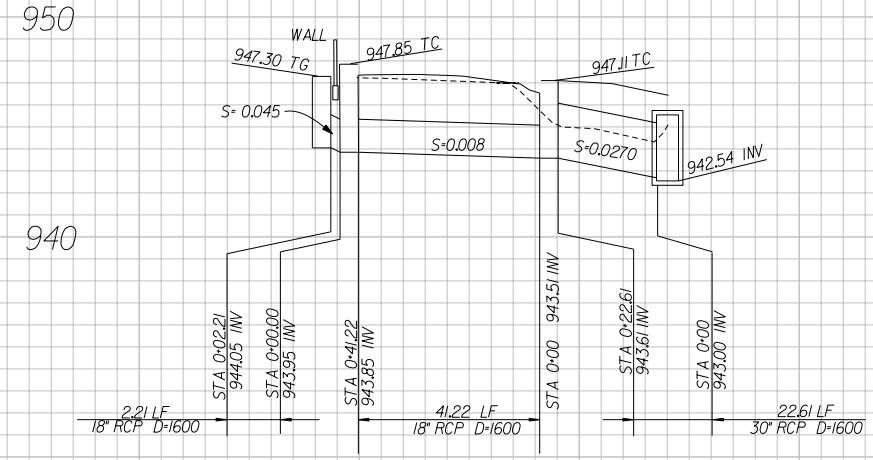
LATERAL B-5 LATERAL B-4



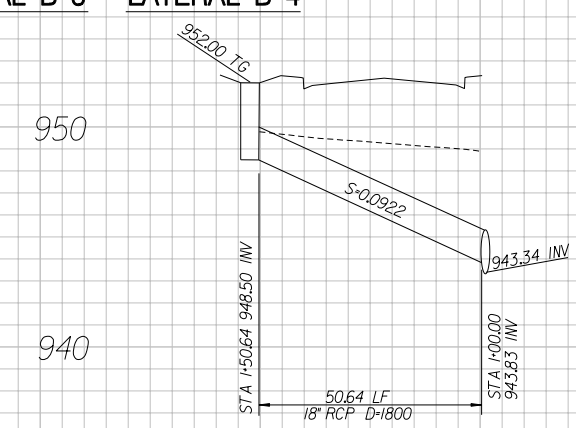
LATERAL B-6



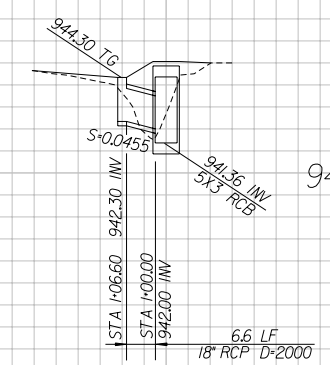
LATERAL C-2 LATERAL C-3



LATERAL C-7 LATERAL C-5 LATERAL C-4



LATERAL C-6



LATERAL C-8

1" = 4' VERT
1" = 20' HORIZ

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER PORTIA GONZALEZ No. C 52302 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

LAN
LIM & NASCIMENTO ENG. CORP.
1887 BUSINESS CENTER DR. STE 6
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302
MY LICENSE EXPIRES 12-31-06 DATE

LAN ENG JOB NO. COFMO202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2004
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: FO
CHECKED BY: PG
RECOMMENDED BY:

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STORM DRAIN IMPROVEMENTS
LATERAL PROFILES
B-1 THROUGH B-5, C-1 THROUGH C-8

CITY FILE NO
DRAWING NO
SHEET 30 OF 82 SHEETS

\Plans\DGN\drain_lateral.dgn 7/7/2006 11:5:04 AM

GENERAL NOTES :

1 – ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.

2 – ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).

3 – ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FWHA TYPE IIIA) REFLECTIVE SHEETING.

4 – SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.

5 – ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY COUNTY REPRESENTATIVE.

6 – ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED, RELOCATED OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.

7 – ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS, IF REMOVED/ OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

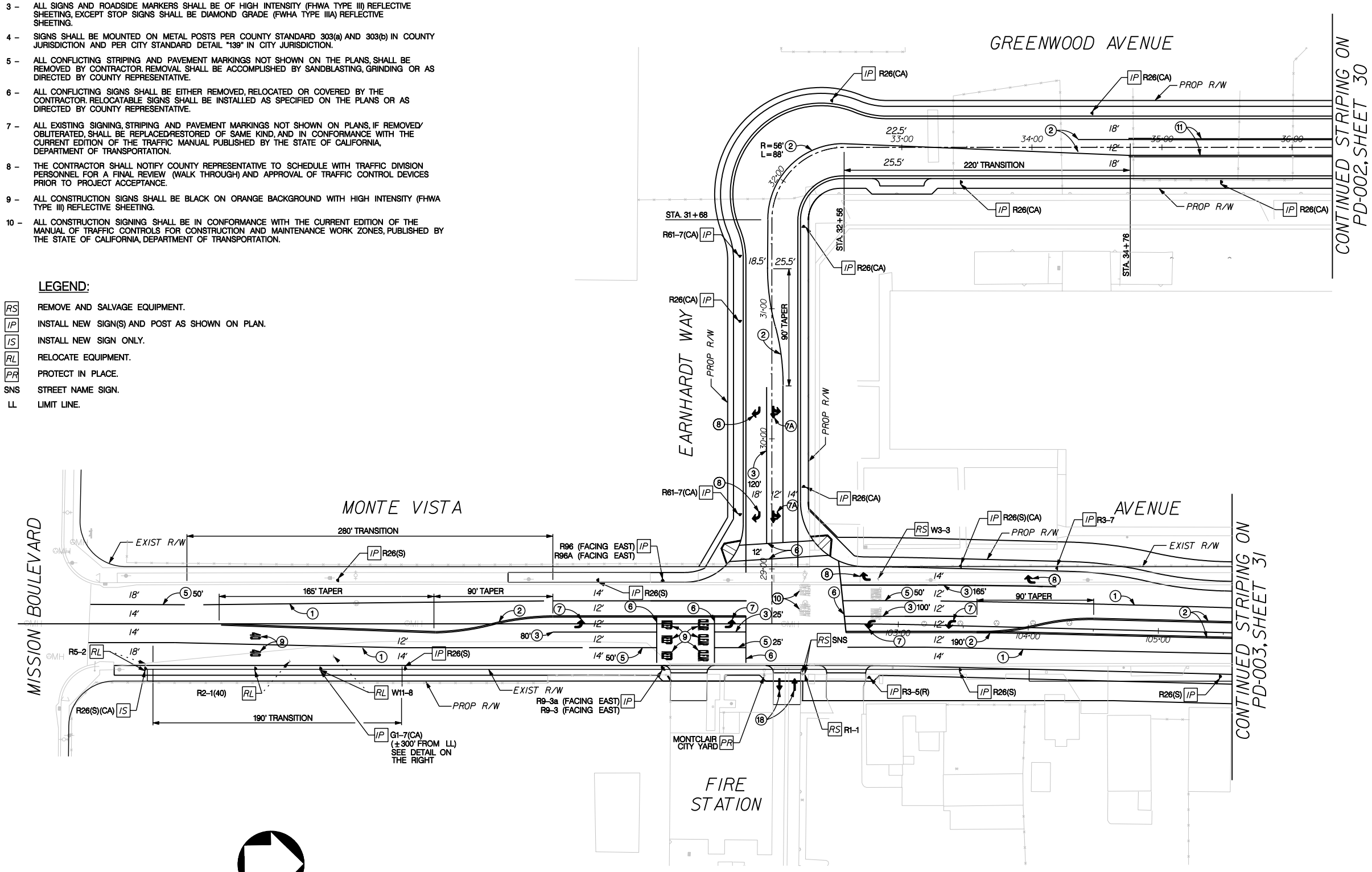
8 – THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

9 – ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.

10 – ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

LEGEND:

RS	REMOVE AND SALVAGE EQUIPMENT.
IP	INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.
IS	INSTALL NEW SIGN ONLY.
RL	RELOCATE EQUIPMENT.
PR	PROTECT IN PLACE.
SNS	STREET NAME SIGN.
LL	LIMIT LINE.

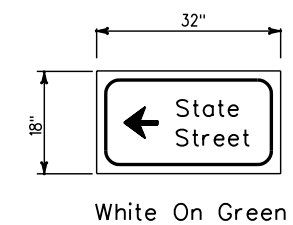


40' 20' 0 40' 80'

1" = 40'-0"

CONSTRUCTION NOTES

1. INSTALL DETAIL 8 – LANE LINES PER CALTRANS STD. PLAN A20A.
2. INSTALL DETAIL 21 –DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
3. INSTALL DETAIL 38 – 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
4. INSTALL DETAIL 28 – DOUBLE LEFT EDGELINE PER CALTRANS STD. PLAN A20B.
5. INSTALL 4" SOLID WHITE LINE PER CALTRANS STD. PLAN A20A.
6. INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
7. INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
7A. INSTALL TYPE II (T & L) ARROW MARKING PER CALTRANS STD. PLAN A24B.
8. INSTALL TYPE IV (R) ARROW MARKING PER CALTRANS STD. PLAN A24A.
9. INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN A24B – A24E.
10. REMOVE EXISTING CONFLICTING STRIPING AND/OR PAVEMENT MARKINGS.
11. INSTALL DETAIL 31 – TWO-WAY LEFT TURN LANES PER CALTRANS STD. PLAN A20B.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. JOIN EXISTING STRIPING.
18. INSTALL TYPE 1 ARROW MARKING PER CALTRANS STD. PLAN A24A.



White On Green

G8-4 (MOD)
N.T.S.

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DIG ALERT
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER DENWUN LIN NO. 46719 EXP. 06/30/07 CIVIL STATE OF CALIFORNIA

LIN Consulting, Inc.
Traffic, Civil, and Electrical Consulting Engineers
21660 E. COPLEY DRIVE, SUITE 270
DIAMOND BAR, CA 91765
PHONE: (909) 396-6850, FAX: (909) 396-8150
E-MAIL: "INBOX@LINCONSULTING.COM"

DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07 — 03/16/06 DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY | ASSISTANT DIRECTOR | DATE
CHIEF TRAFFIC DIVISION | DATE | DIRECTOR OF PUBLIC WORKS | DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE GRADE SEPARATION
SIGNING AND STRIPING PLAN
MONTE VISTA AVENUE AT EARNHARDT WAY

CITY FILE NO
DRAWING NO PD-001
SHEET 31 OF 82 SHEETS

GENERAL NOTES :

1 – ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.

2 – ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).

3 – ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FWHA TYPE IIIA) REFLECTIVE SHEETING.

4 – SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.

5 – ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY COUNTY REPRESENTATIVE.

6 – ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED, RELOCATED OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.

7 – ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS, IF REMOVED/ OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

8 – THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

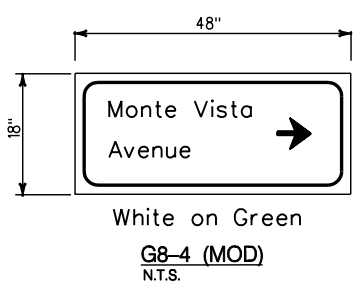
9 – ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.

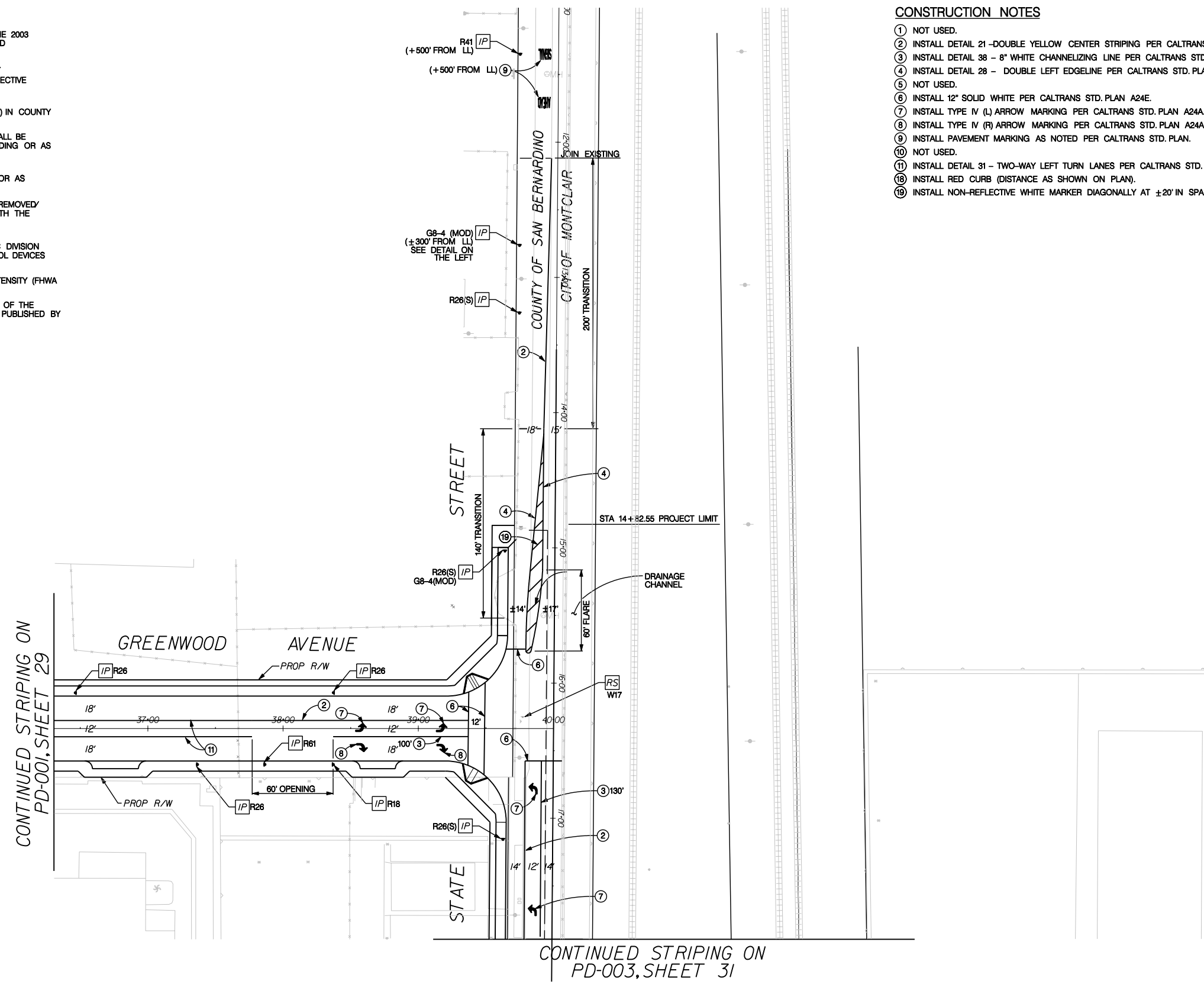
10 – ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

LEGEND:

RS — REMOVE AND SALVAGE EQUIPMENT.

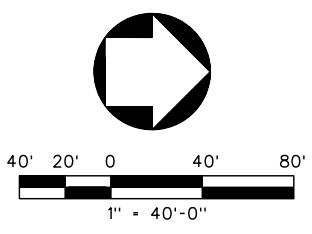
IP — INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.





CONSTRUCTION NOTES

1. NOT USED.
2. INSTALL DETAIL 21 –DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
3. INSTALL DETAIL 38 – 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
4. INSTALL DETAIL 28 – DOUBLE LEFT EDGELINE PER CALTRANS STD. PLAN A20B.
5. NOT USED.
6. INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
7. INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
8. INSTALL TYPE IV (R) ARROW MARKING PER CALTRANS STD. PLAN A24A.
9. INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN.
10. NOT USED.
11. INSTALL DETAIL 31 – TWO-WAY LEFT TURN LANES PER CALTRANS STD. PLAN A20B.
18. INSTALL RED CURB (DISTANCE AS SHOWN ON PLAN).
19. INSTALL NON-REFLECTIVE WHITE MARKER DIAGONALLY AT ±20' IN SPACING.



100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DIG ALERT
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
DENWUN LIN
NO. 46719
EXP. 06/30/07
CIVIL
STATE OF CALIFORNIA

LIN Consulting, Inc.
Traffic, Civil, and Electrical Consulting Engineers
21660 E. COPLEY DRIVE, SUITE 270
DIAMOND BAR, CA 91765
PHONE: (909) 396-6850, FAX: (909) 396-8150
E-MAIL: 'INBOX@LINCONSULTING.COM

DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07
03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY
SUBMITTED BY			ASSISTANT DIRECTOR — DATE
CHIEF TRAFFIC DIVISION — DATE			DIRECTOR OF PUBLIC WORKS — DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
SIGNING AND STRIPING PLAN
STATE STREET AT
GREENWOOD AVENUE

CITY FILE NO
DRAWING NO PD-002
SHEET 32 OF 82 SHEETS

GENERAL NOTES :

1 – ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.

2 – ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).

3 – ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FWHA TYPE IIIA) REFLECTIVE SHEETING.

4 – SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.

5 – ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY COUNTY REPRESENTATIVE.

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7 – ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS, IF REMOVED/ OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

8 – THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

9 – ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.

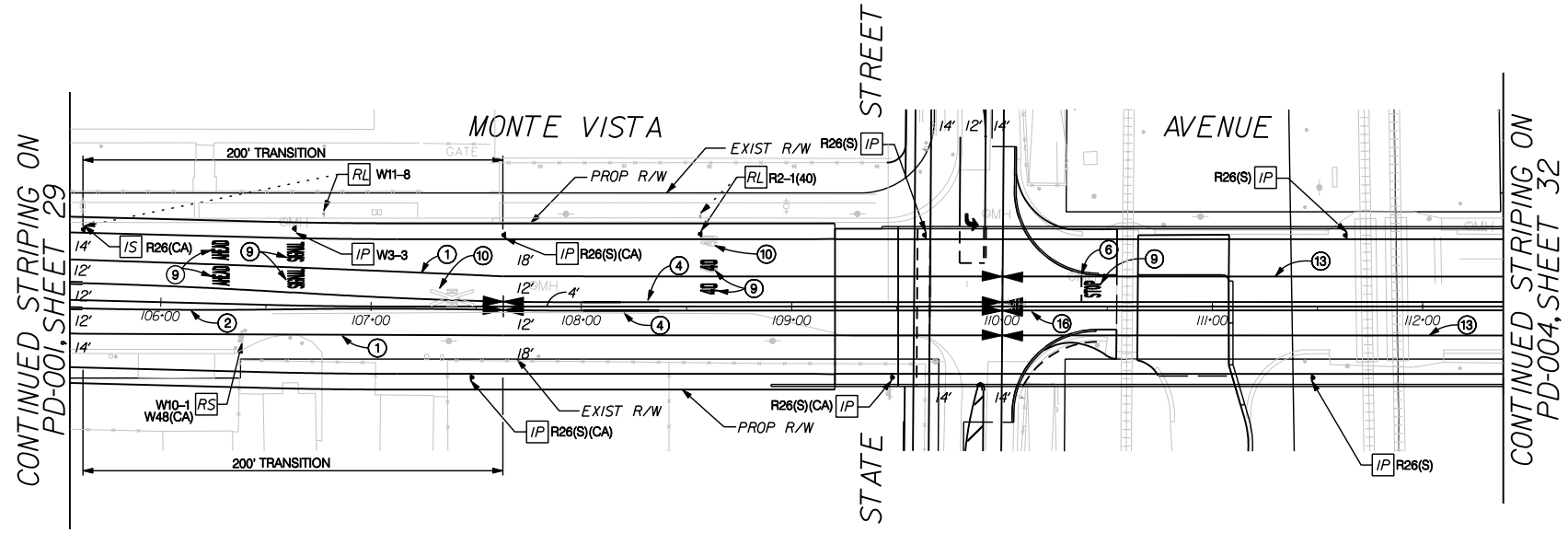
10 – ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

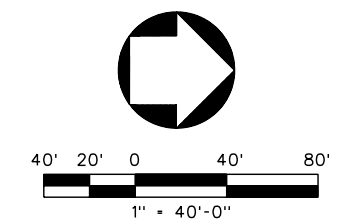
CONSTRUCTION NOTES

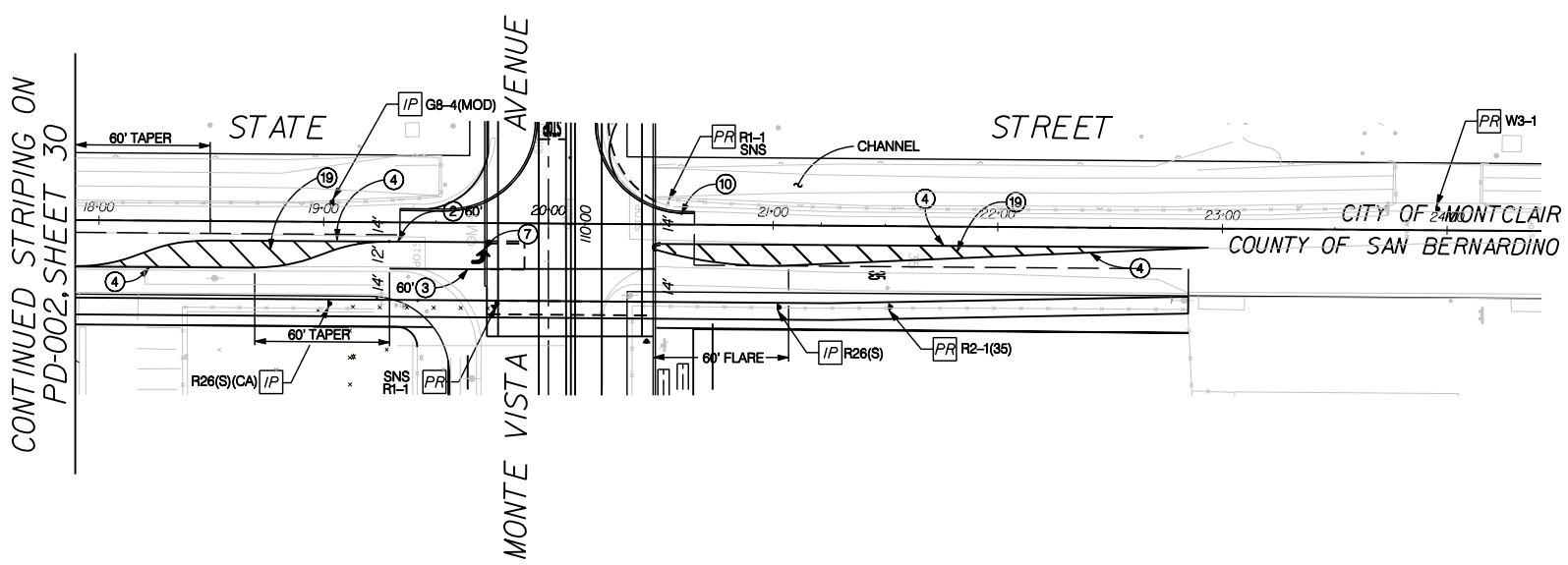
(1) INSTALL DETAIL 8 – LANE LINES PER CALTRANS STD. PLAN A20A.
(2) INSTALL DETAIL 21 –DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
(3) INSTALL DETAIL 38 – 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
(4) INSTALL DETAIL 28 – DOUBLE LEFT EDGELINE PER CALTRANS STD. PLAN A20B.
(5) INSTALL 4" SOLID WHITE LINE PER CALTRANS STD. PLAN A20A.
(6) INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
(7) INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
(8) NOT USED.
(9) INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN.
(10) REMOVE EXISTING CONFLICTING STRIPING AND/OR PAVEMENT MARKINGS.
(11) NOT USED.
(12) NOT USED.
(13) INSTALL DETAIL 10 – LANE LINES PER CALTRANS STD. PLAN A20A.
(14) NOT USED.
(15) NOT USED.
(16) INSTALL DETAIL 30 – MEDIAN ISLAND PER CALTRANS STD. PLAN A20B.
(19) INSTALL NON-REFLECTIVE WHITE MARKER DIAGONALLY AT ±20' IN SPACING.

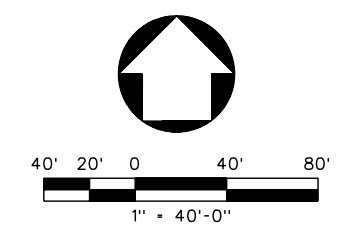
LEGEND:

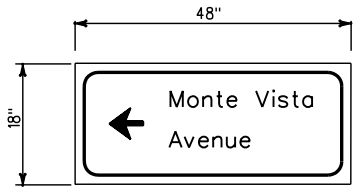
RS REMOVE AND SALVAGE EQUIPMENT.
RL RELOCATE EQUIPMENT.
IP INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.
IS INSTALL NEW SIGN ONLY.
PR PROTECT IN PLACE.
STRIPING TRANSITION











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DIAMOND BAR, CA 91765
PHONE: (909) 396-6850, FAX: (909) 396-8150
E-MAIL: INBOX@LINCONSULTING.COM
DENWUN LIN R.C.E. 46719 MY LICENSE EXPIRES 06-30-07
03/16/06 DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY | ASSISTANT DIRECTOR | DATE
CHIEF TRAFFIC DIVISION | DATE | DIRECTOR OF PUBLIC WORKS | DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE GRADE SEPARATION

SIGNING AND STRIPING PLAN
MONTE VISTA AVENUE AT STATE STREET

CITY FILE NO
DRAWING NO PD-003
SHEET 33 OF 82 SHEETS

GENERAL NOTES :

1 – ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.

2 – ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).

3 – ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FWHA TYPE IIIA) REFLECTIVE SHEETING.

4 – SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.

5 – ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY COUNTY REPRESENTATIVE.

6 – ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED, RELOCATED OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.

7 – ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS, IF REMOVED/ OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

8 – THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

9 – ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.

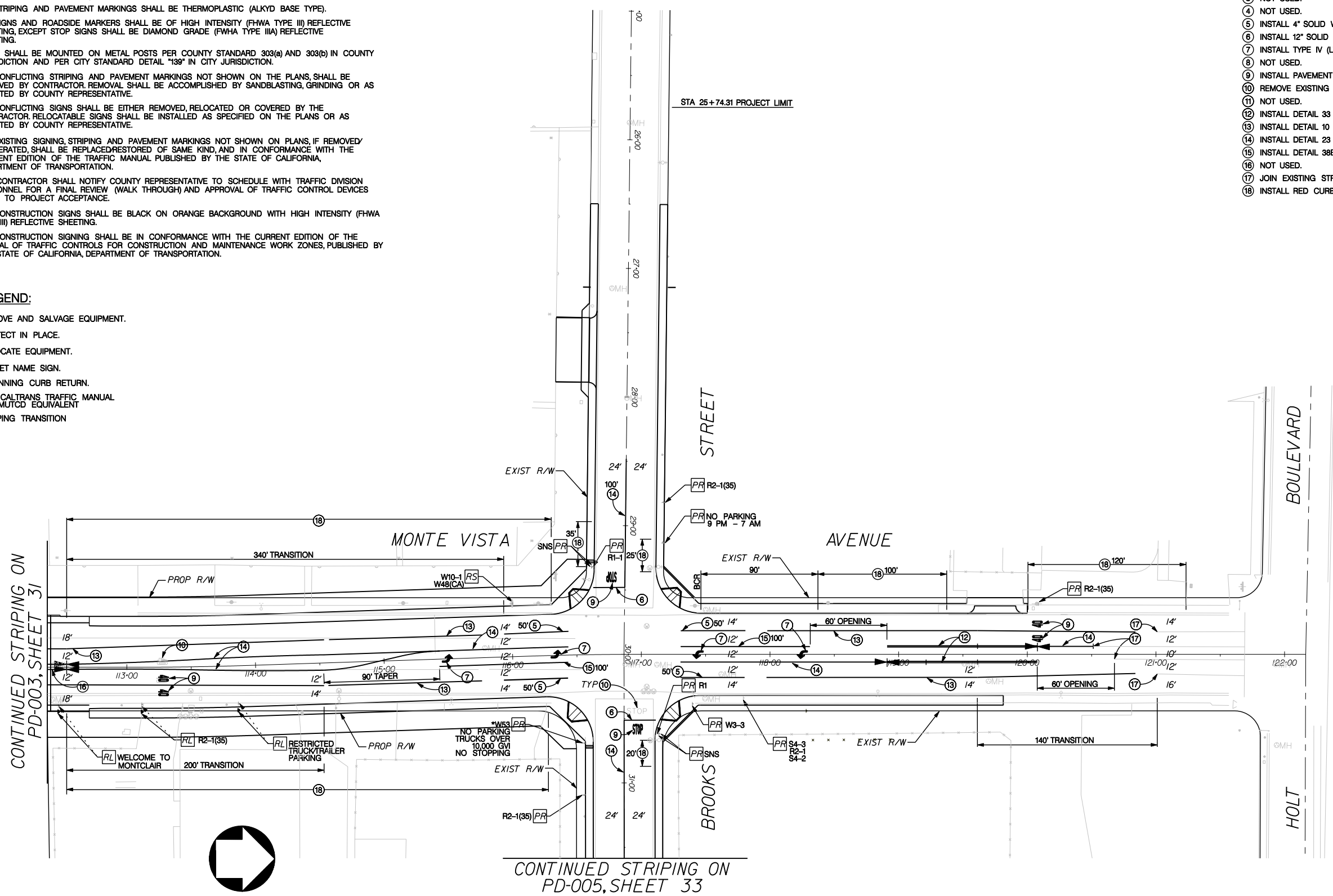
10 – ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

LEGEND:

RS	REMOVE AND SALVAGE EQUIPMENT.
PR	PROTECT IN PLACE.
RL	RELOCATE EQUIPMENT.
SNS	STREET NAME SIGN.
BCR	BEGINNING CURB RETURN.
*	PER CALTRANS TRAFFIC MANUAL NO MUTCD EQUIVALENT
	STRIPING TRANSITION

CONSTRUCTION NOTES

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. INSTALL 4" SOLID WHITE LINE PER CALTRANS STD. PLAN A20A.
6. INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
7. INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
8. NOT USED.
9. INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN A24B – A24E..
10. REMOVE EXISTING CONFLICTING STRIPING AND/OR PAVEMENT MARKINGS.
11. NOT USED.
12. INSTALL DETAIL 33 – TWO–WAY LEFT TURN LANES PER CALTRANS STD. PLAN A20B.
13. INSTALL DETAIL 10 – LANE LINES PER CALTRANS STD. PLAN A20A.
14. INSTALL DETAIL 23 –DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
15. INSTALL DETAIL 38B – 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
16. NOT USED.
17. JOIN EXISTING STRIPING.
18. INSTALL RED CURB (DISTANCE AS SHOWN ON PLAN).



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DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07
03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY
SUBMITTED BY			ASSISTANT DIRECTOR DATE
CHIEF TRAFFIC DIVISION DATE			DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE GRADE SEPARATION
SIGNING AND STRIPING PLAN
MONTE VISTA AVENUE AT BROOKS STREET

CITY FILE NO
DRAWING NO PD-004
SHEET 34 OF 82 SHEETS

GENERAL NOTES :

1 – ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.

2 – ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).

3 – ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FWHA TYPE IIIA) REFLECTIVE SHEETING.

4 – SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.

5 – ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY COUNTY REPRESENTATIVE.

6 – ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED, RELOCATED OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.

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8 – THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

9 – ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.

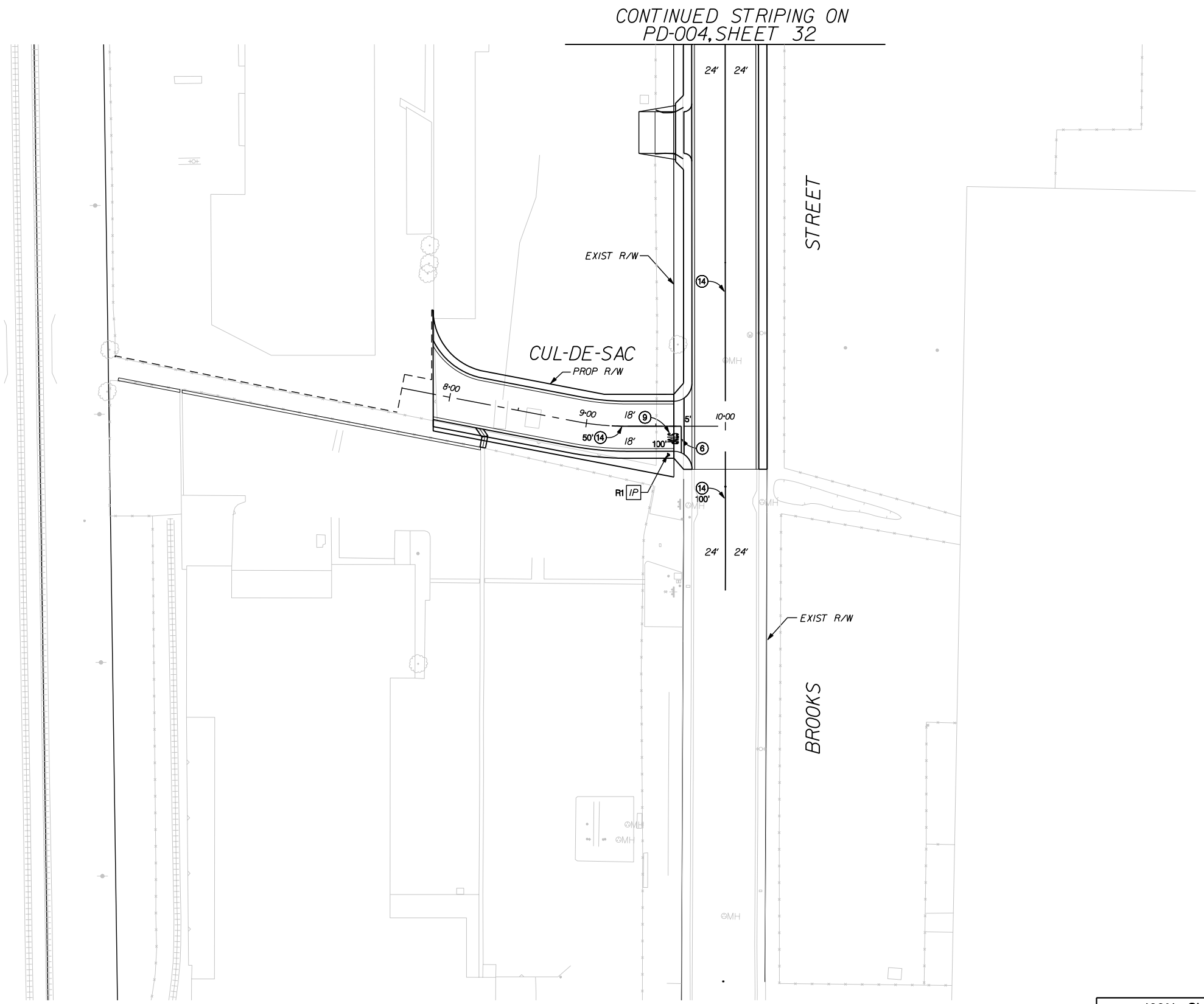
10 – ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

LEGEND:

IP INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.

CONSTRUCTION NOTES

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED.
6. INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E
7. NOT USED.
8. NOT USED.
9. INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN .
10. NOT USED.
11. NOT USED.
12. NOT USED.
13. NOT USED.
14. INSTALL DETAIL 23-DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
15. NOT USED.
16. NOT USED.



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E-MAIL: INBOX@LINCONSULTING.COM

DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07

03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

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SUBMITTED BY			ASSISTANT DIRECTOR DATE
CHIEF TRAFFIC DIVISION DATE			DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

SIGNING AND STRIPING PLAN
BROOKS STREET AT
CUL-DE-SAC

CITY FILE NO

DRAWING NO
PD-005

SHEET 35 OF 82 SHEETS

GENERAL NOTES:

1. STREET LIGHTING: STREET LIGHT INSTALLATIONS ON FACILITIES OWNED BY SOUTHERN CALIFORNIA EDISON (SCE), AS DESCRIBED ON REFERENCE DRAWINGS, INCLUDING LUMINAIRES AND WIRING TO MAKE AN OPERABLE LIGHTING SYSTEM, SHALL BE PERFORMED BY SCE AT NO COST TO THE CONTRACTOR.

   NEW STREET LIGHT STANDARDS, FOUNDATIONS, LUMINAIRES, CONDUIT, PULL BOXES AND WIRING SHALL BE SUPPLIED AND CONSTRUCTED BY THE CONTRACTOR UP TO THE POINT OF CONNECTION WITH SOUTHERN CALIFORNIA EDISON. CONTRACTOR SHALL COORDINATE SELECTION OF LUMINAIRES TO BE CONSISTENT WITH THOSE PROVIDED BY SCE.

2. REFER TO SOUTHERN CALIFORNIA EDISON WORK ORDER DRAWING FOR CONDUIT RUNS AND SIZE, WIRING AND CONDUCTORS INFORMATION.

3. CROSSING ILLUMINATION CONFORMS TO THE REQUIREMENTS OF ANSI "PRACTICE FOR ROADWAY LIGHTING RP8," IES.

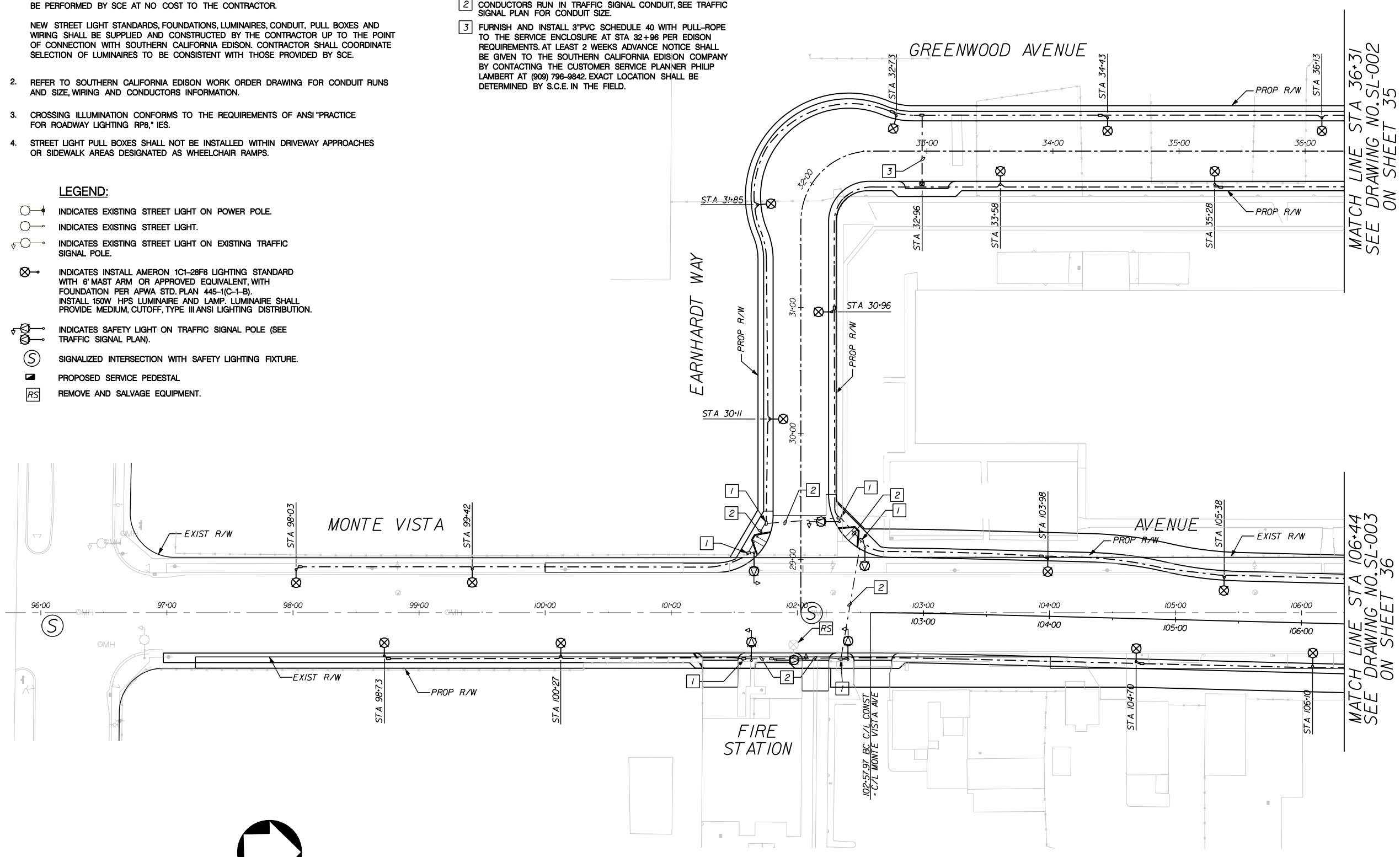
4. STREET LIGHT PULL BOXES SHALL NOT BE INSTALLED WITHIN DRIVEWAY APPROACHES OR SIDEWALK AREAS DESIGNATED AS WHEELCHAIR RAMPS.

LEGEND:

- INDICATES EXISTING STREET LIGHT ON POWER POLE.
- INDICATES EXISTING STREET LIGHT.
- INDICATES EXISTING STREET LIGHT ON EXISTING TRAFFIC SIGNAL POLE.
- INDICATES INSTALL AMERON 1C1-28F6 LIGHTING STANDARD WITH 6' MAST ARM OR APPROVED EQUIVALENT, WITH FOUNDATION PER APWA STD. PLAN 445-1(C-1-B). INSTALL 150W HPS LUMINAIRE AND LAMP. LUMINAIRE SHALL PROVIDE MEDIUM, CUTOFF, TYPE III ANSI LIGHTING DISTRIBUTION.
- INDICATES SAFETY LIGHT ON TRAFFIC SIGNAL POLE (SEE TRAFFIC SIGNAL PLAN).
- (S) SIGNALIZED INTERSECTION WITH SAFETY LIGHTING FIXTURE.
- PROPOSED SERVICE PEDESTAL
- RS REMOVE AND SALVAGE EQUIPMENT.

CONSTRUCTION NOTES:

1. STREET LIGHT CONDUIT JOINS TRAFFIC SIGNAL PULL BOX, SEE TRAFFIC SIGNAL PLAN.
2. CONDUCTORS RUN IN TRAFFIC SIGNAL CONDUIT, SEE TRAFFIC SIGNAL PLAN FOR CONDUIT SIZE.
3. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL-ROPE TO THE SERVICE ENCLOSURE AT STA 32+96 PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISION COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT (909) 796-9842. EXACT LOCATION SHALL BE DETERMINED BY S.C.E. IN THE FIELD.



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DIAMOND BAR, CA 91765
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DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07
03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY
SUBMITTED BY			ASSISTANT DIRECTOR — DATE
CHIEF TRAFFIC DIVISION — DATE			DIRECTOR OF PUBLIC WORKS — DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STREET LIGHTING PLAN
MONTE VISTA AVENUE AT
EARNHARDT WAY

CITY FILE NO
DRAWING NO
SL-001
SHEET 36 OF 82 SHEETS

GENERAL NOTES:

1. STREET LIGHTING: STREET LIGHT INSTALLATIONS ON FACILITIES OWNED BY SOUTHERN CALIFORNIA EDISON (SCE), AS DESCRIBED ON REFERENCE DRAWINGS, INCLUDING LUMINAIRES, AND WIRING TO MAKE AN OPERABLE LIGHTING SYSTEM, SHALL BE PERFORMED BY SCE AT NO COST TO THE CONTRACTOR.

   NEW STREET LIGHT STANDARDS, FOUNDATIONS, LUMINAIRES, CONDUIT, PULL BOXES AND WIRING SHALL BE SUPPLIED AND CONSTRUCTED BY THE CONTRACTOR UP TO THE POINT OF CONNECTION WITH SOUTHERN CALIFORNIA EDISON. CONTRACTOR SHALL COORDINATE SELECTION OF LUMINAIRES TO BE CONSISTENT WITH THOSE PROVIDED BY SCE.

2. REFER TO SOUTHERN CALIFORNIA EDISON WORK ORDER DRAWING FOR CONDUIT RUNS AND SIZE WIRING AND CONDUCTORS INFORMATION.

3. CROSSING ILLUMINATION CONFORMS TO THE REQUIREMENTS OF ANSI "PRACTICE FOR ROADWAY LIGHTING RP8," IES.

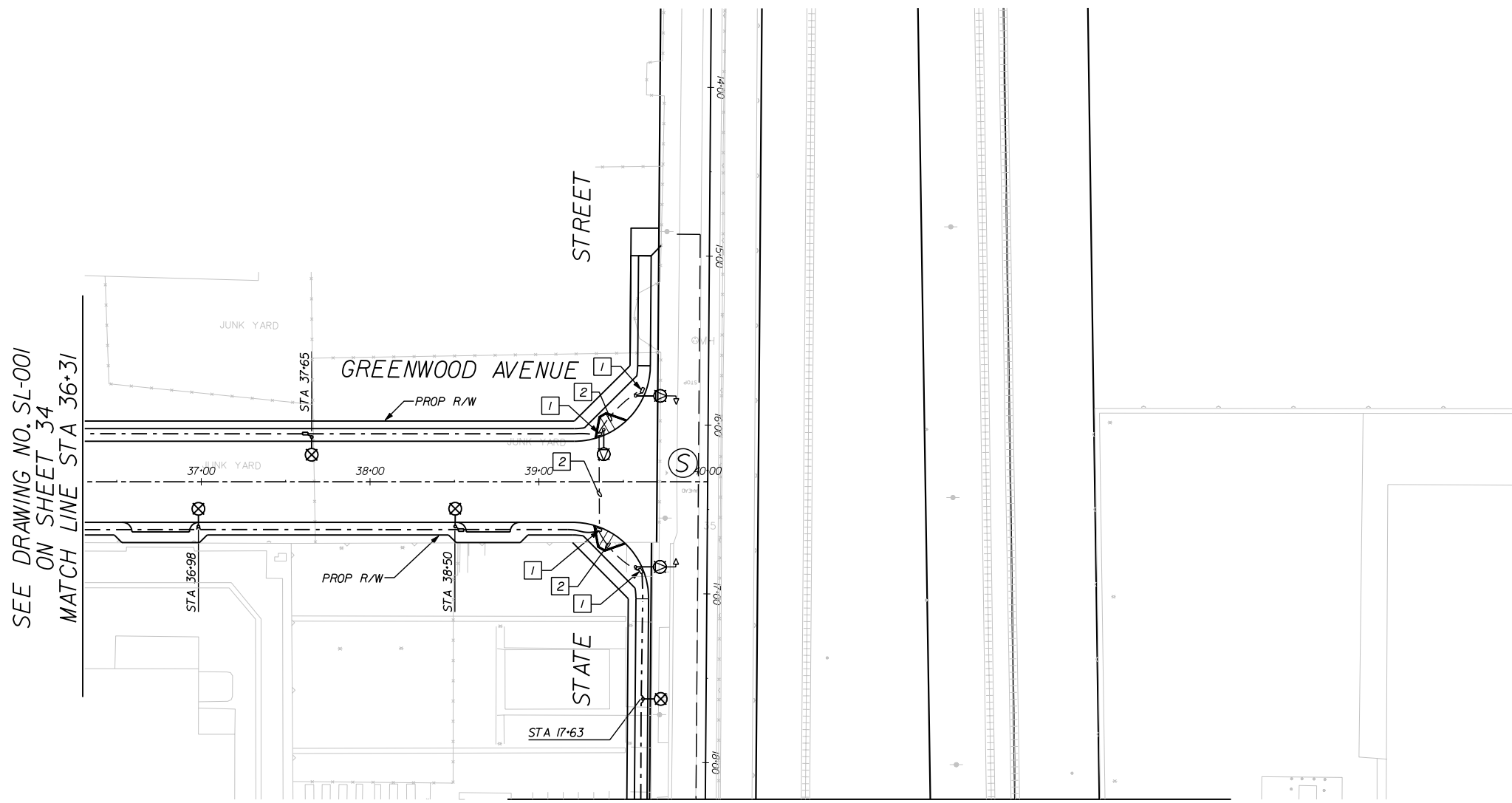
4. STREET LIGHT PULL BOXES SHALL NOT BE INSTALLED WITHIN DRIVEWAY APPROACHES OR SIDEWALK AREAS DESIGNATED AS WHEELCHAIR RAMPS.

CONSTRUCTION NOTES:

1. STREET LIGHT CONDUIT JOINS TRAFFIC SIGNAL PULL BOX, SEE TRAFFIC SIGNAL PLAN.
2. CONDUCTORS RUN IN TRAFFIC SIGNAL CONDUIT, SEE TRAFFIC SIGNAL PLAN FOR CONDUIT SIZE.

LEGEND:

- INDICATES EXISTING STREET LIGHT ON POWER POLE.
- INDICATES EXISTING STREET LIGHT.
- INDICATES EXISTING STREET LIGHT ON EXISTING TRAFFIC SIGNAL POLE.
- INDICATES INSTALL AMERON 1C1–28F6 LIGHTING STANDARD WITH 6' MAST ARM OR APPROVED EQUIVALENT, WITH FOUNDATION PER APWA STD. PLAN 445–1(C–1–B). INSTALL 150W HPS LUMINAIRE AND LAMP. LUMINAIRE SHALL PROVIDE MEDIUM, CUTOFF, TYPE III ANSI LIGHTING DISTRIBUTION.
- INDICATES SAFETY LIGHT ON TRAFFIC SIGNAL POLE (SEE TRAFFIC SIGNAL PLAN).
- (S) SIGNALIZED INTERSECTION WITH SAFETY LIGHTING FIXTURE.
- PROPOSED SERVICE PEDESTAL
- RS REMOVE AND SALVAGE EQUIPMENT.



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LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

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MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

STREET LIGHTING PLAN
STATE STREET AT
GREENWOOD AVENUE

CITY FILE NO

DRAWING NO
SL-002

SHEET 37 OF 82 SHEETS

GENERAL NOTES:

1. STREET LIGHTING: STREET LIGHT INSTALLATIONS ON FACILITIES OWNED BY SOUTHERN CALIFORNIA EDISON (SCE), AS DESCRIBED ON REFERENCE DRAWINGS, INCLUDING LUMINAIRES AND WIRING TO MAKE AN OPERABLE LIGHTING SYSTEM, SHALL BE PERFORMED BY SCE AT NO COST TO THE CONTRACTOR.

   NEW STREET LIGHT STANDARDS, FOUNDATIONS, LUMINAIRES, CONDUIT, PULL BOXES AND WIRING SHALL BE SUPPLIED AND CONSTRUCTED BY THE CONTRACTOR UP TO THE POINT OF CONNECTION WITH SOUTHERN CALIFORNIA EDISON. CONTRACTOR SHALL COORDINATE SELECTION OF LUMINAIRES TO BE CONSISTENT WITH THOSE PROVIDED BY SCE.

2. REFER TO SOUTHERN CALIFORNIA EDISON WORK ORDER DRAWING FOR CONDUIT RUNS AND SIZE WIRING AND CONDUCTORS INFORMATION.

3. CROSSING ILLUMINATION CONFORMS TO THE REQUIREMENTS OF ANSI "PRACTICE FOR ROADWAY LIGHTING RP8," IES.

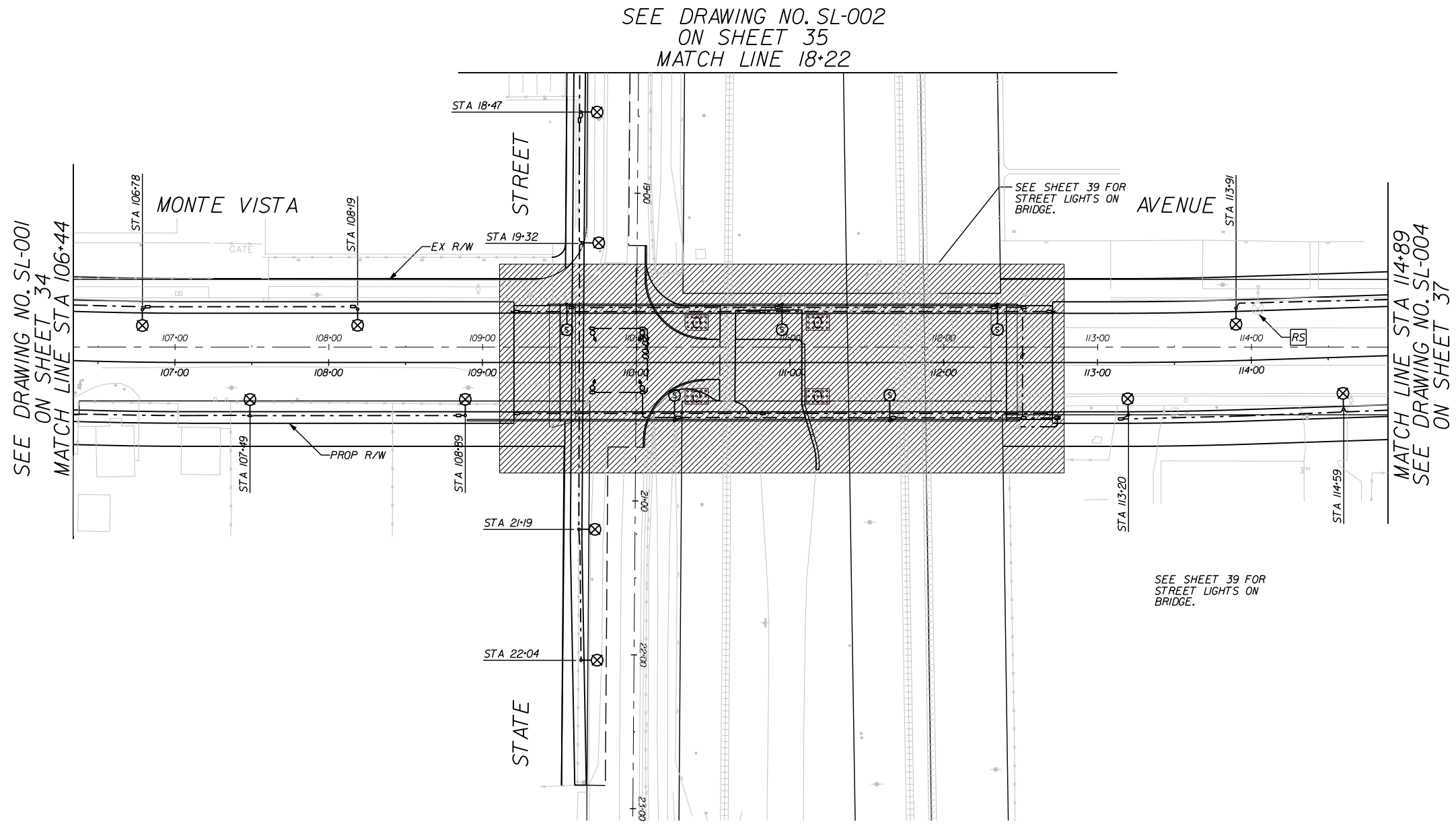
4. STREET LIGHT PULL BOXES SHALL NOT BE INSTALLED WITHIN DRIVEWAY APPROACHES OR SIDEWALK AREAS DESIGNATED AS WHEELCHAIR RAMPS.

LEGEND:

INDICATES EXISTING STREET LIGHT.

INDICATES INSTALL AMERON 1C1-28F6 LIGHTING STANDARD WITH 6' MAST ARM OR APPROVED EQUIVALENT, WITH FOUNDATION PER APWA STD. PLAN 445-1(C-1-B). INSTALL 150W HPS LUMINAIRE AND LAMP. LUMINAIRE SHALL PROVIDE MEDIUM, CUTOFF, TYPE III ANSI LIGHTING DISTRIBUTION.

RS — REMOVE AND SALVAGE EQUIPMENT.



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SUBMITTED BY			ASSISTANT DIRECTOR — DATE
CHIEF TRAFFIC DIVISION — DATE			DIRECTOR OF PUBLIC WORKS — DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006

MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____

DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE
GRADE SEPARATION

STREET LIGHTING PLAN
MONTE VISTA AVENUE AT
STATE STREET

CITY FILE NO

DRAWING NO
SL-003

SHEET 38 OF 82 SHEETS

GENERAL NOTES:

1. STREET LIGHTING: STREET LIGHT INSTALLATIONS ON FACILITIES OWNED BY SOUTHERN CALIFORNIA EDISON (SCE), AS DESCRIBED ON REFERENCE DRAWINGS, INCLUDING LUMINAIRES AND WIRING TO MAKE AN OPERABLE LIGHTING SYSTEM, SHALL BE PERFORMED BY SCE AT NO COST TO THE CONTRACTOR.

   NEW STREET LIGHT STANDARDS, FOUNDATIONS, LUMINAIRES, CONDUIT, PULL BOXES AND WIRING SHALL BE SUPPLIED AND CONSTRUCTED BY THE CONTRACTOR UP TO THE POINT OF CONNECTION WITH SOUTHERN CALIFORNIA EDISON. CONTRACTOR SHALL COORDINATE SELECTION OF LUMINAIRES TO BE CONSISTENT WITH THOSE PROVIDED BY SCE.

2. REFER TO SOUTHERN CALIFORNIA EDISON WORK ORDER DRAWING FOR CONDUIT RUNS AND SIZE WIRING AND CONDUCTORS INFORMATION.

3. CROSSING ILLUMINATION CONFORMS TO THE REQUIREMENTS OF ANSI "PRACTICE FOR ROADWAY LIGHTING RP8," IES.

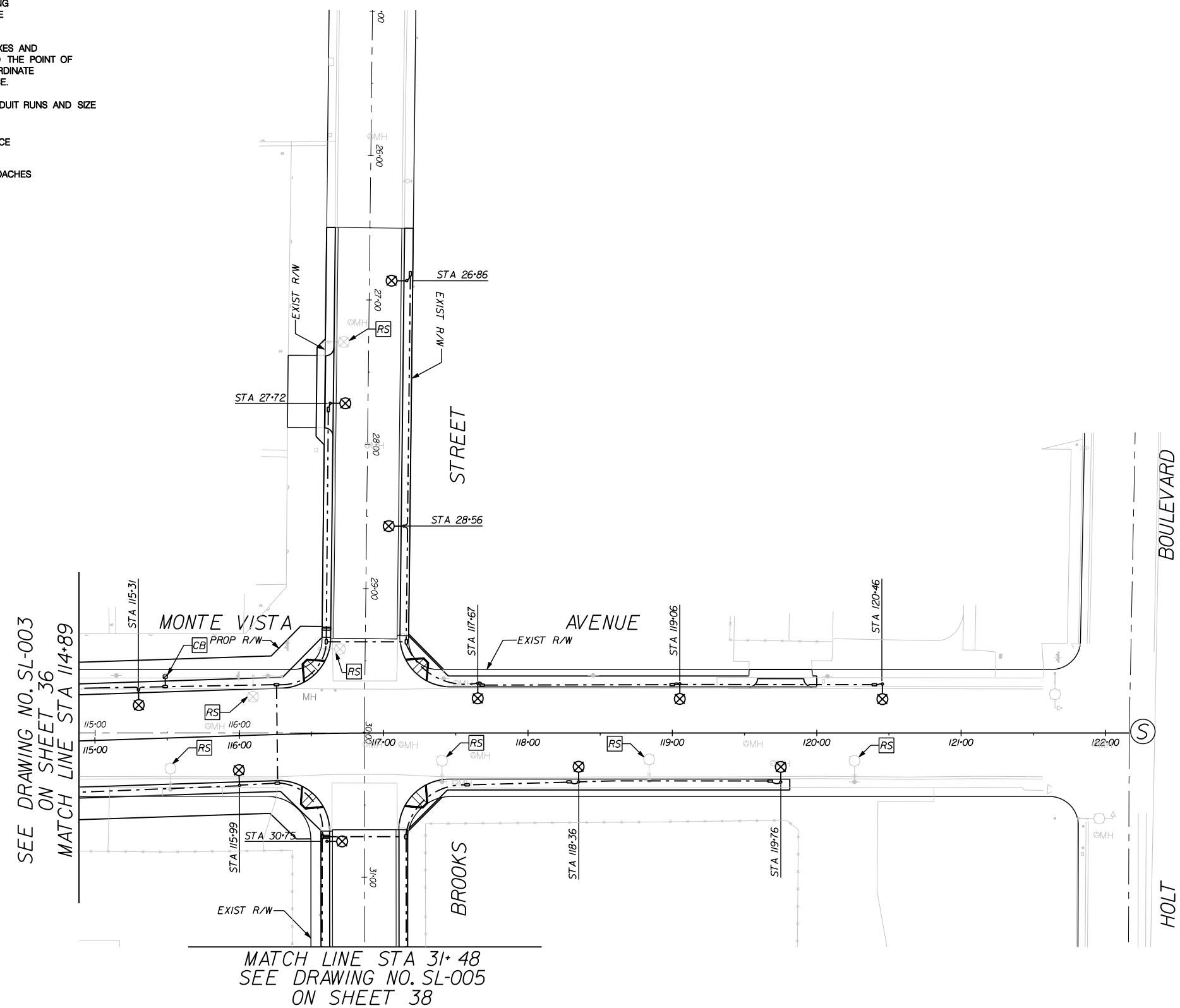
4. STREET LIGHT PULL BOXES SHALL NOT BE INSTALLED WITHIN DRIVEWAY APPROACHES OR SIDEWALK AREAS DESIGNATED AS WHEELCHAIR RAMPS.

LEGEND:

- INDICATES EXISTING STREET LIGHT ON POWER POLE.
- INDICATES EXISTING STREET LIGHT.
- INDICATES EXISTING STREET LIGHT ON EXISTING TRAFFIC SIGNAL POLE.
- INDICATES INSTALL AMERON 1C1-28F6 LIGHTING STANDARD WITH 6' MAST ARM OR APPROVED EQUIVALENT, WITH FOUNDATION PER APWA STD. PLAN 445-1(C-1-B). INSTALL 150W HPS LUMINAIRE AND LAMP. LUMINAIRE SHALL PROVIDE MEDIUM, CUTOFF, TYPE III ANSI LIGHTING DISTRIBUTION.
- INDICATES SAFETY LIGHT ON TRAFFIC SIGNAL POLE (SEE TRAFFIC SIGNAL PLAN).
- (S) SIGNALIZED INTERSECTION WITH SAFETY LIGHTING FIXTURE.
- PROPOSED SERVICE PEDESTAL
- RS REMOVE AND SALVAGE EQUIPMENT.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

CONSTRUCTION NOTES:

1. STREET LIGHT CONDUIT JOINS TRAFFIC SIGNAL PULL BOX, SEE TRAFFIC SIGNAL PLAN.
2. CONDUCTORS RUN IN TRAFFIC SIGNAL CONDUIT, SEE TRAFFIC SIGNAL PLAN FOR CONDUIT SIZE.
3. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL-ROPE TO THE SERVICE ENCLOSURE AT STA 115+50 PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISION COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT (909) 796-9842. EXACT LOCATION SHALL BE DETERMINED BY S.C.E. IN THE FIELD.



40' 20' 0 40' 80'
1" = 40'-0"

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
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REGISTERED PROFESSIONAL ENGINEER
DENWUN LIN
NO. 46719
EXP. 06/30/07
CIVIL
STATE OF CALIFORNIA

LIN Consulting, Inc.
Traffic, Civil, and Electrical Consulting Engineers
21660 E. COPLEY DRIVE, SUITE 270
DIAMOND BAR, CA 91765
PHONE: (909) 396-6850, FAX: (909) 396-8150
E-MAIL: INBOX@LINCONSULTING.COM

DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07
03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY
SUBMITTED BY			ASSISTANT DIRECTOR DATE
CHIEF TRAFFIC DIVISION DATE			DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STREET LIGHTING PLAN
MONTE VISTA AVENUE AT
BROOKS STRRET

CITY FILE NO
DRAWING NO SL-004
SHEET 39 OF 82 SHEETS

GENERAL NOTES:

1. STREET LIGHTING: STREET LIGHT INSTALLATIONS ON FACILITIES OWNED BY SOUTHERN CALIFORNIA EDISON (SCE), AS DESCRIBED ON REFERENCE DRAWINGS, INCLUDING LUMINAIRES AND WIRING TO MAKE AN OPERABLE LIGHTING SYSTEM, SHALL BE PERFORMED BY SCE AT NO COST TO THE CONTRACTOR.

   NEW STREET LIGHT STANDARDS, FOUNDATIONS, LUMINAIRES, CONDUIT, PULL BOXES AND WIRING SHALL BE SUPPLIED AND CONSTRUCTED BY THE CONTRACTOR UP TO THE POINT OF CONNECTION WITH SOUTHERN CALIFORNIA EDISON. CONTRACTOR SHALL COORDINATE SELECTION OF LUMINARIES TO BE CONSISTENT WITH THOSE PROVIDED BY SCE.

2. REFER TO SOUTHERN CALIFORNIA EDISON WORK ORDER DRAWING FOR CONDUIT RUNS AND SIZE WIRING AND CONDUCTORS INFORMATION.

3. CROSSING ILLUMINATION CONFORMS TO THE REQUIREMENTS OF ANSI "PRACTICE FOR ROADWAY LIGHTING RP8," IES.

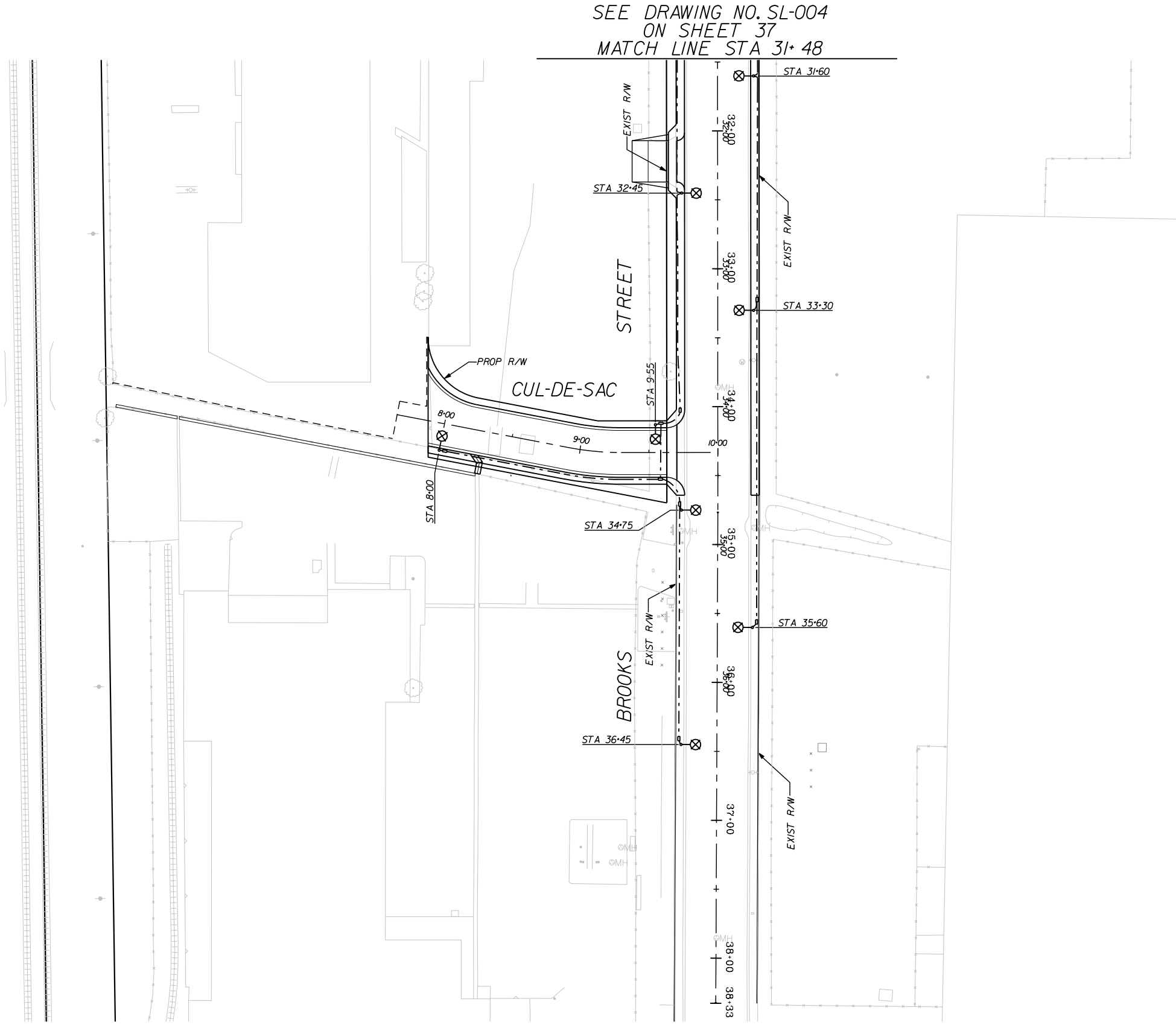
4. STREET LIGHT PULL BOXES SHALL NOT BE INSTALLED WITHIN DRIVEWAY APPROACHES OR SIDEWALK AREAS DESIGNATED AS WHEELCHAIR RAMPS.

LEGEND:

- INDICATES EXISTING STREET LIGHT ON POWER POLE.
- INDICATES EXISTING STREET LIGHT.
- INDICATES EXISTING STREET LIGHT ON EXISTING TRAFFIC SIGNAL POLE.
- INDICATES INSTALL AMERON 1C1-28F6 LIGHTING STANDARD WITH 6' MAST ARM OR APPROVED EQUIVALENT, WITH FOUNDATION PER APWA STD. PLAN 445-1(C-1-B). INSTALL 150W HPS LUMINAIRE AND LAMP. LUMINAIRE SHALL PROVIDE MEDIUM, CUTOFF, TYPE III ANSI LIGHTING DISTRIBUTION.
- INDICATES SAFETY LIGHT ON TRAFFIC SIGNAL POLE (SEE TRAFFIC SIGNAL PLAN).
- (S) SIGNALIZED INTERSECTION WITH SAFETY LIGHTING FIXTURE.
- PROPOSED SERVICE PEDESTAL
- RS REMOVE AND SALVAGE EQUIPMENT.

CONSTRUCTION NOTES:

1. STREET LIGHT CONDUIT JOINTS TRAFFIC SIGNAL PULL BOX, SEE TRAFFIC SIGNAL PLAN.
2. CONDUCTORS RUN IN TRAFFIC SIGNAL CONDUIT, SEE TRAFFIC SIGNAL PLAN FOR CONDUIT SIZE.



40' 20' 0 40' 80'

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MARCH 16, 2006

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DENWUN LIN
NO. 46719
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STATE OF CALIFORNIA

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DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07
03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY
SUBMITTED BY			ASSISTANT DIRECTOR DATE
CHIEF TRAFFIC DIVISION DATE			DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
STREET LIGHTING PLAN
BROOKS STREET AT
CUL-DE-SAC

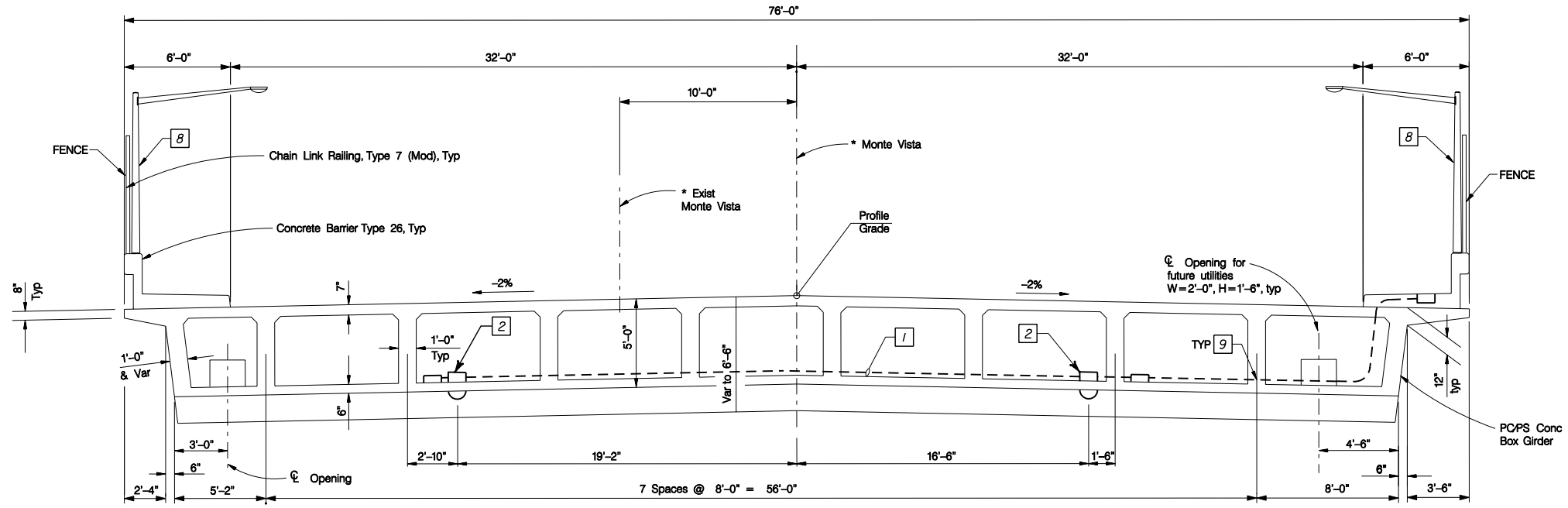
CITY FILE NO
DRAWING NO
SL-005
SHEET 40 OF 82 SHEETS

LEGEND:

- INDICATES EXISTING STREET LIGHT ON POWER POLE.
- INDICATES EXISTING STREET LIGHT.
- 150W HPS AMERON A258, BARRIER MOUNTED PER CALTRANS STANDARD PLANS B11-54 (2.4m OR 8' LUMINAIRE ARM).
- 70W HPS SOFFIT LIGHT
- PROPOSED SERVICE PEDESTAL
- RS REMOVE AND SALVAGE EQUIPMENT.

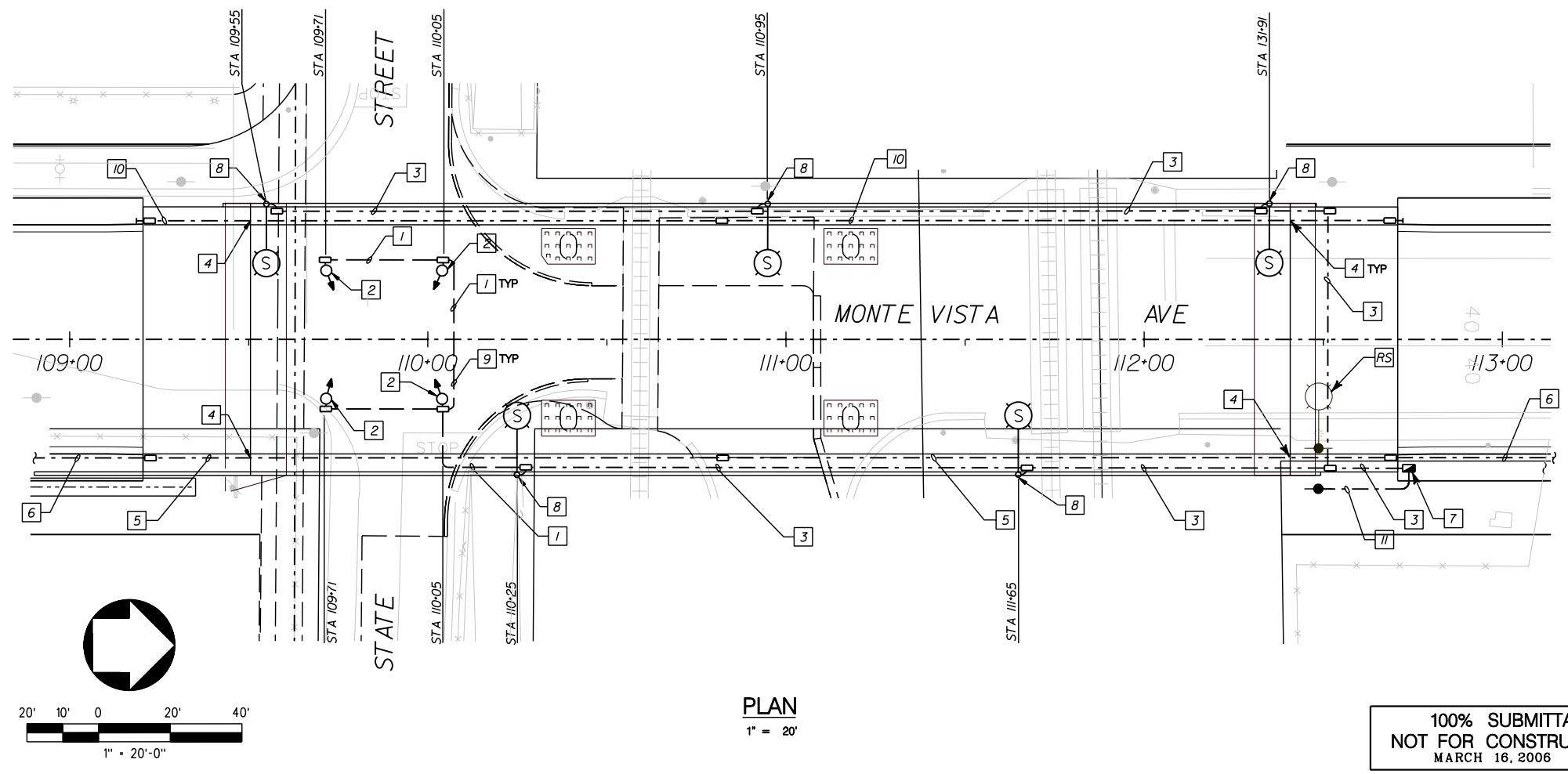
CONSTRUCTION NOTES:

1. INSTALL 1"C, 2#8.
2. INSTALL 70W HPS SOFFIT LIGHT WITH NO.7 PULL BOX PER CALTRANS STD. PLAN ES-9E. LOCATE SOFFIT LIGHT PER PLAN & SECTION.
3. INSTALL 2"C, 2#8, AND NO.5 PULL BOX AS SHOWN ON PLAN FOR TYPE 15 STREET LIGHT (SEE CALTRANS STD. PLAN ES-9D)
4. EXPANSION /DEFLECTION FITTING IS REQUIRED AT ALL JOINTS (SEE CALTRANS STD. PLAN ES-9B DETAIL X)
5. INSTALL 2" CONDUIT, PULL ROPE AND PULL BOXES FOR FUTURE IRRIGATION CONTROL (SEE CALTRANS STD. PLAN ES-9B) INSTALL 2" CONDUIT, 12PR#19 SIC, SEE TRAFFIC SIGNAL PLAN FOR DETAIL.
6. INSTALL 2" CONDUIT, 12PR#19 SIC, SEE TRAFFIC SIGNAL PLAN FOR DETAIL.
7. INSTALL 120/240 V TYPE III-BF SERVICE ENCLOSURE AND FOUNDATION WITH TYPE V PHOTO ELECTRIC CONTROL FOR CITY OWNED/MAINTAINED STREET LIGHTS:
   METER # 1 WITH 100 A MAIN BREAKER TYPE LS-3
   I-30 A – 120 V – 1P CB FOR CITY OF MONTCLAIR STREET LIGHTING SYSTEM
8. AMERON STEEL POLES(A258) SHALL BE MOUNTED ON TYPE 26 BARRIER TO BE MAINTAINED BY THE CITY OF MONTCLAIR.
9. CONDUIT PASS THROUGH BRIDGE GIRDER(S) PER CALTRANS STD. PLAN ES-9B DETAIL S.
10. INSTALL 2-2" CONDUIT, PULL ROPE AND PULL BOXES FOR FUTURE COMMUNICATIONS WIRE & IRRIGATION CONTROL (SEE CALTRANS STD. PLAN ES-9B)
11. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL-ROPE AND 3" PVC SCHEDULE 80 RISER SWEEP FROM P.P. #18201252 TO THE SERVICE ENCLOSURE PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.



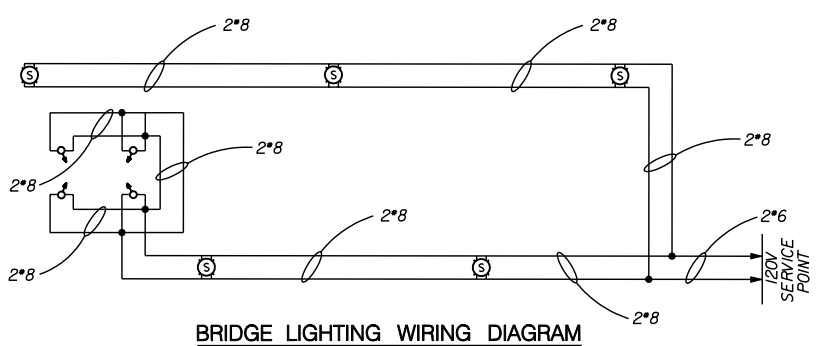
TYPICAL SECTION

NTS



PLAN

1" = 20'



BRIDGE LIGHTING WIRING DIAGRAM

NTS

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MARCH 16, 2006

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REGISTERED PROFESSIONAL ENGINEER DENWUN LIN NO. 46719 EXP. 06/30/07 CIVIL STATE OF CALIFORNIA

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Traffic, Civil, and Electrical Consulting Engineers
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E-MAIL: INBOX@LINCONSULTING.COM
DENWUN LIN R.C.E. 46719
MY LICENSE EXPIRES 06-30-07

03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY | ASSISTANT DIRECTOR | DATE
CHIEF TRAFFIC DIVISION | DATE | DIRECTOR OF PUBLIC WORKS | DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE GRADE SEPARATION
STREET LIGHTING PLAN
MONTE VISTA AVE AT BRIDGE OVERPASS

CITY FILE NO
DRAWING NO SL-006
SHEET 41 OF 82 SHEETS

SIGNAL GENERAL NOTES:

1–ALL PEDESTRIAN HEADS SHALL BE MODIFIED TYPE A WITH 2–LED INTERNATIONAL MESSAGE SYMBOLS. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL HAVE MESSAGE SYMBOLS.

2–ALL BACK PLATES AND VISORS SHALL BE METAL, NO PLASTIC PARTS WILL BE ALLOWED.

3–UNLESS OTHERWISE NOTED, ALL PULL BOXES SHALL BE #6 AND INSTALLED PER CALTRANS STANDARD PLAN ES–8.

4–PEDESTRIAN PUSH BUTTON SHALL BE PER CALTRANS STANDARD PLAN ES–5C (TYPE B) AND ES–7A.

5–SLEEVE NUTS SHALL BE USED FOR ALL (1–A) POLES PER CALTRANS STANDARD PLAN ES–7B.

6–ALL SIGNAL HEADS SHALL BE 12" LED.

7–SIGNAL POLE LOCATIONS ARE APPROXIMATE.

8–ALL BACK PLATES SHOULD BE LOUVERED.

9–PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC, SHALL BE TRAFFIC TYPE PER CALTRANS STANDARD PLAN ES–8.

10–CONTRACTOR SHALL OBTAIN FROM THE ENGINEER THE EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT.

11–ALL UNUSED TENON(S) SHALL BE CAPPED.

12–TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS (DATED JULY 2002).

13–ALL REQUIRED CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF MONTCLAIR ENGINEERING DIVISION.

14–EXISTING SIGNS, STRIPING, AND PAVEMENT MARKINGS TO BE REMOVED AT TRAFFIC SIGNAL TURN–ON WITH PROPER TRAFFIC CONTROL IN PLACE.

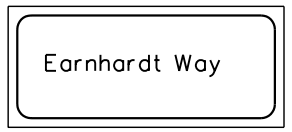
SIGNAL CONSTRUCTION NOTES:

1. FURNISH AND INSTALL TYPE 170 CONTROLLER ASSEMBLY, INCLUDING TYPE "R" CABINET. CLARY SP1000CR BATTERY BACK–UP SYSTEM AND APPURTENANT EQUIPMENT (SEE SPECIAL PROVISIONS). CONTROLLER CABINET AND FOUNDATION ARE TO BE INSTALLED PER CALTRANS STANDARD PLAN ES–3C. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION AS SHOWN ON THE PLAN. THE CONTROLLER ASSEMBLY AND BATTERY BACK UP SYSTEM SHALL BE TESTED BY REPUBLIC ELECTRIC PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.
2. FURNISH AND INSTALL 120/240V TYPE III–BF SIGNAL AND LIGHTING SERVICE AND FOUNDATION PER CALTRANS STD. PLAN ES–2E. INSTALL 1P–100A MAIN BREAKER, 1P–50A SIGNAL BREAKER, 1P–30A LIGHTING BREAKER. SIGNAL CIRCUIT SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.
3. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL–ROPE TO THE SERVICE ENCLOSURE AT STA 32+96 PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISION COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT [(909)796–9842. EXACT LOCATION SHALL BE DETERMINED BY S.C.E. IN THE FIELD.
4. FURNISH AND INSTALL VEHICLE DETECTION SYSTEM. CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
5. FURNISH AND INSTALL DOUBLE SIDED REFLECTIVE STREET NAME SIGNS PER DETAILS SHOWN ON PLAN. SIGN PANEL SHALL BE ALUMINUM BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
6. FURNISH AND INSTALL SIGNS ON MAST ARM OR POLE AS SHOWN. SIGN(S) SHALL BE ALUMINUM–BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
7. FURNISH AND INSTALL TYPE "V" PHOTOELECTRIC CONTROL (LIGHTING TYPE) AT SERVICE CABINET.
8. FURNISH AND INSTALL SWITCH AND ENCLOSURE. FOR 07 PREEMPTION. CONTACT FIRE DIVISION CHIEF MR. DAN TAPIA (909) 626–1217 FOR EXACT LOCATION OF PREEMPTION EQUIPMENT.
9. FURNISH AND INSTALL 3M OPTICOM MODEL 711 EMERGENCY VEHICLE PREEMPTION (E.V.P.) SYSTEM. THE SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION AND DETAIL "Z" HEREON.

(G7) DETAIL "G"
NTS

(G7) DETAIL "I"
NTS

BACKGROUND – YELLOW (REFLECTIVE)
LETTER AND BORDER – BLACK (NON–REFLECTIVE)



(G7) DETAIL "H"
NTS

LEGEND:

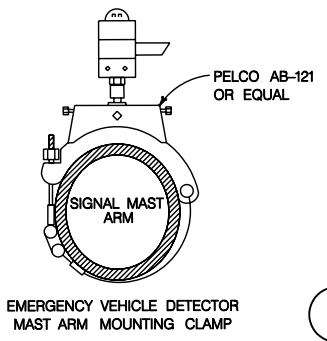
A ½" WHITE REFLECTIVE BORDER
B 8" U.C. AND 6" L.C.
C 18"
D VARIES

NOTE:

DETAILS "H" AND "I"

BACKGROUND COLOR = GREEN (NON–REFLECTIVE)
LETTER COLOR = WHITE (REFLECTIVE)

POLE LOCATION DETAIL
N.T.S.



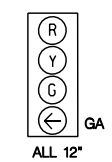
EMERGENCY VEHICLE DETECTOR
MAST ARM MOUNTING CLAMP

DETAIL "Z"
N.T.S.

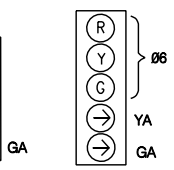
POLE AND EQUIPMENT SCHEDULE

NO	STANDARD TYPE	STANDARD SIG MA	STANDARD "F" SPACING	STANDARD LUM MA	POLE LOCATION A	POLE LOCATION B	VEH SIG MTG MAST	VEH SIG MTG MOUNTING	PED SIGNAL Ø	PED SIGNAL MOUNTING	PED PUSH BUTTON Ø	PED PUSH BUTTON ARROW	HPSV LUMINAIRE	REFLECTIVE STREET NAME SIGN
A	19–3–129	25'	-	15'	SEE PLAN	5.5'	MAS	SV–2–TA	-	-	-	-	200W	SEE DETAIL G
B	17–3–129	20'	-	15'	SEE PLAN	5.5'	MAS	SV–2–TA	2	SP–1–T	2	←	200W	SEE DETAIL I
C	19–4–129	30'	12'	15'	SEE PLAN	5.5'	MAS / MAS	SV–2–TA	2	SP–1–T	2	→	200W	SEE DETAIL H
D	15TS*	-	-	15'	22'	3'	-	SV–2–TA	6	SP–1–T	6	→	200W	-
E	17–3–129	20'	-	15'	22'	3'	MAS	SV–1–T	-	-	-	-	200W	SEE DETAIL I
F	1–A	-	-	-	13'	3'	-	TV–1–T	-	-	-	-	-	-
G	26–4–129	40'	15'	15'	33'	3'	MAS / MAS	SV–1–T	6	SP–1–T	6	←	200W	SEE DETAIL H

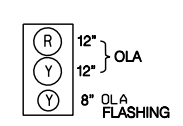
ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.
* PER 2004 CALTRANS TRAFFIC MANUAL.



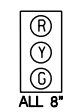
ALL 12"
DETAIL A
NTS



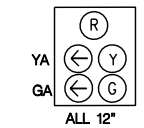
ALL 12"
DETAIL B
NTS



DETAIL C
NTS



ALL 8"
DETAIL D
NTS



ALL 12"
DETAIL E
NTS

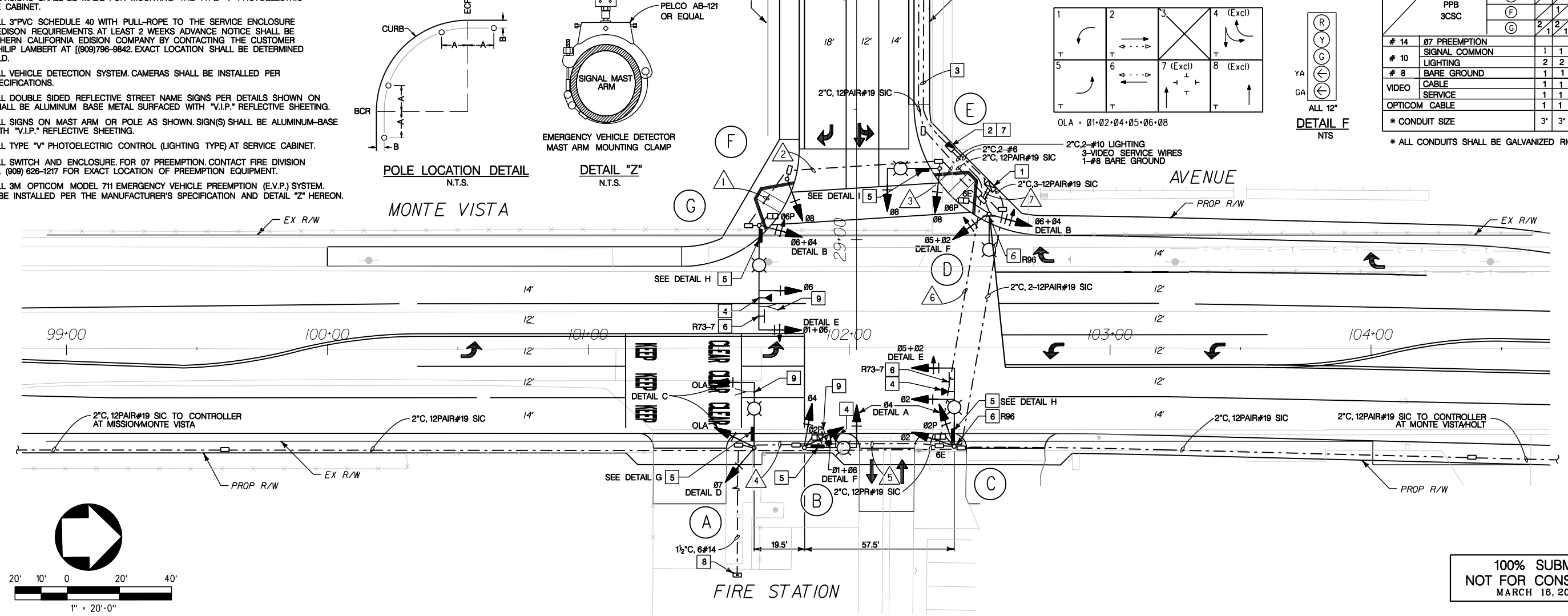
OLA = Ø1+Ø2+Ø4+Ø5+Ø6+Ø8

ALL 12"
DETAIL F
NTS

CONDUCTOR AND CONDUIT SCHEDULE

CABLE, AWG, SCHEDULE / CABLE TYPE	STD	1	2	3	4	5	6	7
VEH–PED 12CSC / PPB 3CSC	A			1	1	1	1	1
	B				2	2	2	2
						1	1	1
	C					2	2	2
							1	1
	D							2
								1
	E		1					1
	F	1	1					1
	G	2	2	2				2
		1	1	1				1
# 14	Ø7 PREEMPTION				6	6	6	6
# 10	SIGNAL COMMON	1	1	1	1	1	1	1
	LIGHTING	2	2	2	2	2	2	
# 8	BARE GROUND	1	1	1	1	1	1	1
VIDEO	CABLE	1	1	1		1	2	3
	SERVICE	1	1	1		1	2	
OPTICOM CABLE		1	1	1	1	2	2	3
* CONDUIT SIZE		3"	3"	3"	3"	3"	3"	2-3"

* ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL.



100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 16, 2006

Underground Service Alert
DIG ALERT
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1-800
422-4133
TWO WORKING DATE BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
DENMUN LIN
NO. 46719
EXP. 06/30/07
CIVIL
STATE OF CALIFORNIA

LIN Consulting, Inc.
Traffic, Civil, and Electrical Consulting Engineers
21660 E. COPLEY DRIVE, SUITE 270
DIAMOND BAR, CA 91765
PHONE: (909) 396–6850, FAX: (909) 396–8150
E–MAIL: INBOX@LINCONSULTING.COM
DENMUN LIN P.E.E. 46719
MY LICENSE EXPIRES 06–30–07

03/16/06
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

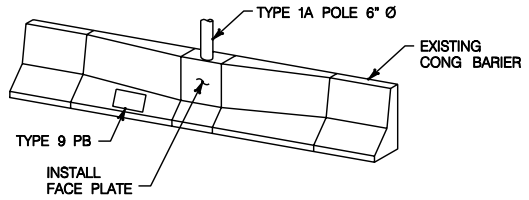
DRAWN BY | DESIGNED BY | PROJ. ENGR. | RECOMMENDED /APPROVED BY
SUBMITTED BY | ASSISTANT DIRECTOR | DATE
CHIEF TRAFFIC DIVISION | DATE | DIRECTOR OF PUBLIC WORKS | DATE

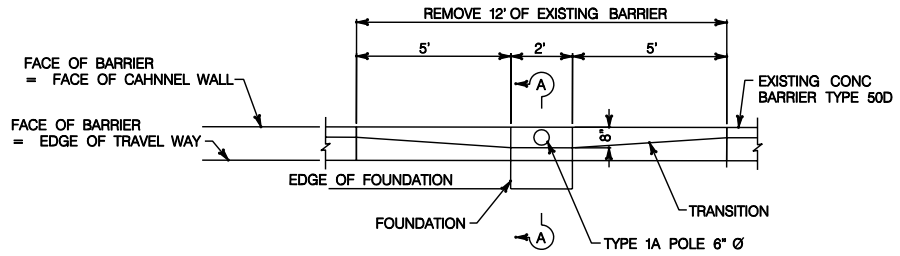
MARK	REVISIONS	BY	APPR.	DATE

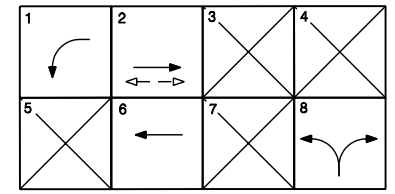
APPROVED _____ 2006
MICHAEL HUDSON, P.E.
CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
CHECKED BY: D. LIN
RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE
GRADE SEPARATION
TRAFFIC SIGNAL PLAN
MONTE VISTA AVENUE AT
EARNHARDT WAY

CITY FILE NO
DRAWING NO TR-001
SHEET 42 OF 82 SHEETS





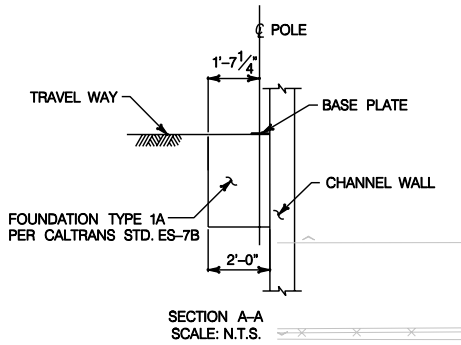


PROPOSED PHASE DIAGRAM

POLE AND EQUIPMENT SCHEDULE

NO	STANDARD TYPE	STANDARD SIG MA	STANDARD "F"	STANDARD LUM MA	POLE LOCATION A	POLE LOCATION B	VEH SIG MTG MAST	VEH SIG MTG POLE	PED SIGNAL MTG	PPB Ø	PPB ARROW	HPS LUMINAIRE	REFLECTIVE STREET NAME SIGN
(A)	1-A(10')*	-	-	-	SEE PLAN	SEE PLAN	-	TV-2-T	-	-	-	-	-
(B)	26-4-129	40'	15'	15'	18'	4.5'	MAS / MAS	SV-1-T	SP-1-T	2	→	200W	SEE DETAIL "B"
(C)	15TS**	-	-	15'	17.5'	2.5'	-	-	-	-	-	200W	-
(D)	1-A(10')	-	-	-	18'	2.5'	-	TV-1-T	-	-	-	-	-
(E)	19-4-129	15'	-	15'	25.8'	2.5'	MAS	SV-1-T	SP-1-T	2	←	200W	SEE DETAIL "B"
(F)	1-A(10')*	-	-	-	SEE PLAN	SEE PLAN	-	TV-2-T	-	-	-	-	-

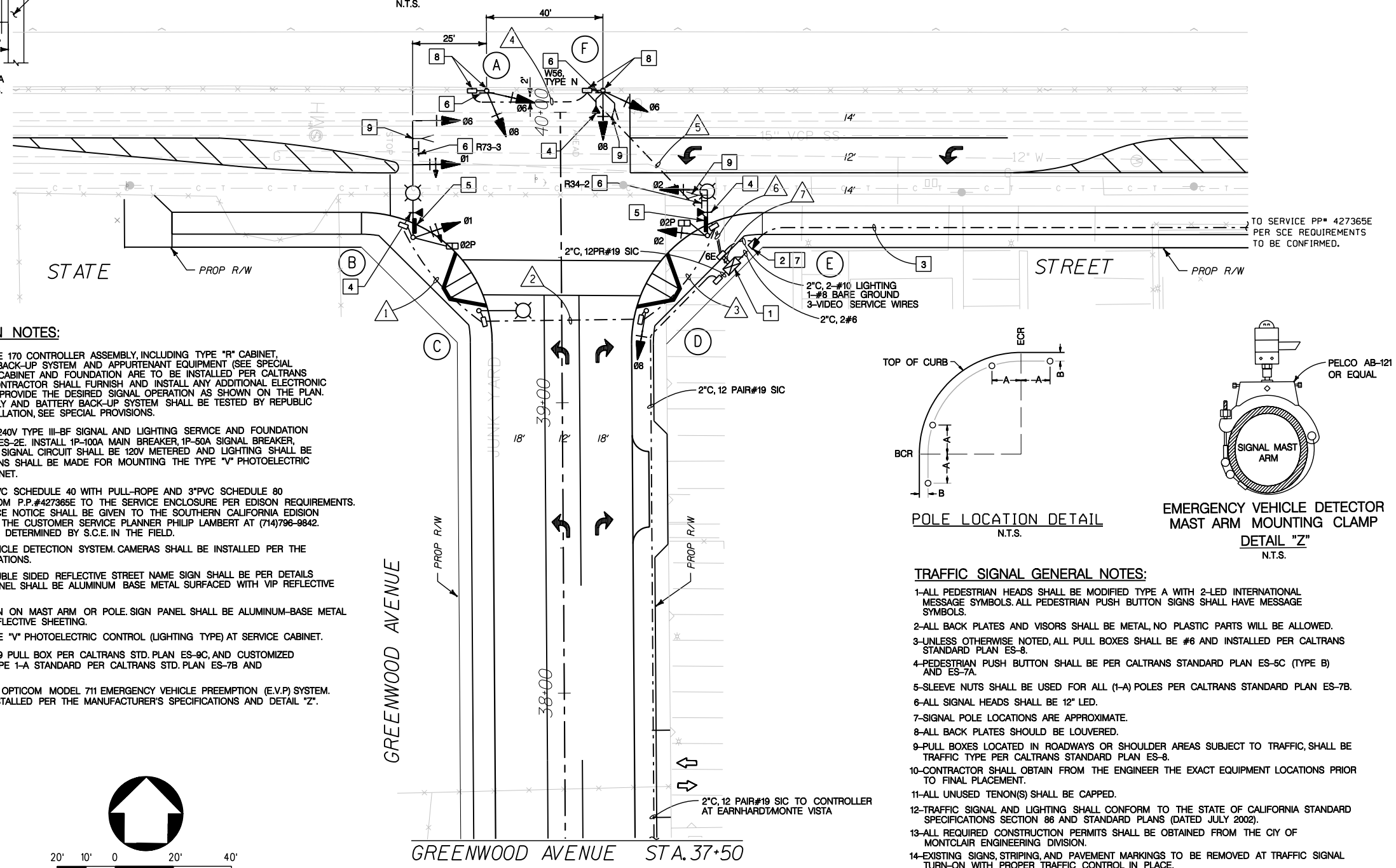
* REFER TO CUSTOMIZED FOUNDATIONS DETAIL ON THE LEFT (DETAIL "D")
** PER 2004 CALTRANS TRAFFIC MANUAL.



SECTION A-A
SCALE: N.T.S.

CONCRETE BARRIER AT POLES (A) AND (F) 'S FOUNDATIONS

DETAIL "D"
N.T.S.



CONDUCTOR AND CONDUIT SCHEDULE

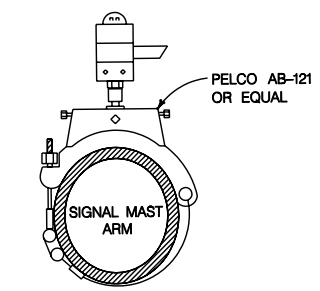
CABLE, AWG, AND DLC SCHEDULE		CONDUCTOR RUN NUMBER AND SIZE						
CABLE TYPE	STD	1	2	3	4	5	6	7
VEH-PED 12CSC / PPB 3CSC	(A)			1	1	1	1	
	(B)	1	1	1			1	1
	(C)						1	1
	(D)		1				1	1
	(E)						1	1
	(F)					1	1	1
# 10	SIGNAL COMMON	1	1	1	1	1	1	1
	LIGHTING	2	2	2			2	
# 8	BARE GROUND	1	1	1	1	1	1	1
VIDEO	CABLE	1	1	1		1	3	3
	SERVICE	1	1	1		1	3	
OPTICOM CABLE		1	1	1		1	3	3
* CONDUIT SIZE		3"	3"	3"	3"	3"	2-3"	2-3"

* ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL.

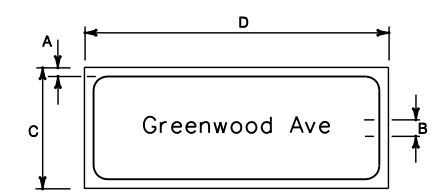
SIGNAL CONSTRUCTION NOTES:

1. FURNISH AND INSTALL TYPE 170 CONTROLLER ASSEMBLY, INCLUDING TYPE "R" CABINET, CLARY SP1000CR BATTERY BACK-UP SYSTEM AND APPURTENANT EQUIPMENT (SEE SPECIAL PROVISIONS). CONTROLLER CABINET AND FOUNDATION ARE TO BE INSTALLED PER CALTRANS STANDARD PLAN ES-3C. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION AS SHOWN ON THE PLAN. THE CONTROLLER ASSEMBLY AND BATTERY BACK-UP SYSTEM SHALL BE TESTED BY REPUBLIC ELECTRIC PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.
2. FURNISH AND INSTALL 120/240V TYPE III-BF SIGNAL AND LIGHTING SERVICE AND FOUNDATION PER CALTRANS STD. PLAN ES-2E. INSTALL 1P-100A MAIN BREAKER, 1P-50A SIGNAL BREAKER, 1P-30A LIGHTING BREAKER. SIGNAL CIRCUIT SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.
3. FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL-ROPE AND 3"PVC SCHEDULE 80 RISER WITH 36" SWEEP FROM P.P.#427365E TO THE SERVICE ENCLOSURE PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISION COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT (714)796-9842. EXACT LOCATION SHALL BE DETERMINED BY S.C.E. IN THE FIELD.
4. FURNISH AND INSTALL VEHICLE DETECTION SYSTEM. CAMERAS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
5. FURNISH AND INSTALL DOUBLE SIDED REFLECTIVE STREET NAME SIGN SHALL BE PER DETAILS SHOWN ON PLAN. SIGN PANEL SHALL BE ALUMINUM BASE METAL SURFACED WITH VIP REFLECTIVE SHEETING.
6. FURNISH AND INSTALL SIGN ON MAST ARM OR POLE. SIGN PANEL SHALL BE ALUMINUM-BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
7. FURNISH AND INSTALL TYPE "V" PHOTOELECTRIC CONTROL (LIGHTING TYPE) AT SERVICE CABINET.
8. FURNISH AND INSTALL NO.9 PULL BOX PER CALTRANS STD. PLAN ES-9C, AND CUSTOMIZED FOUNDATIONS FOR THE TYPE 1-A STANDARD PER CALTRANS STD. PLAN ES-7B AND DETAIL "D" ABOVE HEREON.
9. FURNISH AND INSTALL 3M OPTICOM MODEL 711 EMERGENCY VEHICLE PREEMPTION (E.V.P) SYSTEM. THE SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND DETAIL "Z". HEREON.

POLE LOCATION DETAIL
N.T.S.



EMERGENCY VEHICLE DETECTOR MAST ARM MOUNTING CLAMP
DETAIL "Z"
N.T.S.



DETAIL "B"
NTS

LEGEND:

A ½" WHITE REFLECTIVE BORDER
B 8" U.C. AND 6" L.C.
C 18"
D VARIES

NOTE:

DETAIL "B"

BACKGROUND COLOR = GREEN (NON-REFLECTIVE)
LETTER COLOR = WHITE (REFLECTIVE)

TRAFFIC SIGNAL GENERAL NOTES:

1-ALL PEDESTRIAN HEADS SHALL BE MODIFIED TYPE A WITH 2-LED INTERNATIONAL MESSAGE SYMBOLS. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL HAVE MESSAGE SYMBOLS.

2-ALL BACK PLATES AND VISORS SHALL BE METAL, NO PLASTIC PARTS WILL BE ALLOWED.

3-UNLESS OTHERWISE NOTED, ALL PULL BOXES SHALL BE #6 AND INSTALLED PER CALTRANS STANDARD PLAN ES-8.

4-PEDESTRIAN PUSH BUTTON SHALL BE PER CALTRANS STANDARD PLAN ES-5C (TYPE B) AND ES-7A.

5-SLEEVE NUTS SHALL BE USED FOR ALL (1-A) POLES PER CALTRANS STANDARD PLAN ES-7B.

6-ALL SIGNAL HEADS SHALL BE 12" LED.

7-SIGNAL POLE LOCATIONS ARE APPROXIMATE.

8-ALL BACK PLATES SHOULD BE LOUVERED.

9-PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC, SHALL BE TRAFFIC TYPE PER CALTRANS STANDARD PLAN ES-8.

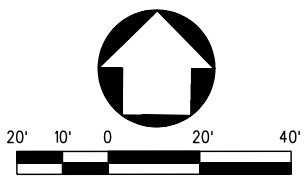
10-CONTRACTOR SHALL OBTAIN FROM THE ENGINEER THE EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT.

11-ALL UNUSED TENON(S) SHALL BE CAPPED.

12-TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS (DATED JULY 2002).

13-ALL REQUIRED CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CIY OF MONTCLAIR ENGINEERING DIVISION.

14-EXISTING SIGNS, STRIPING, AND PAVEMENT MARKINGS TO BE REMOVED AT TRAFFIC SIGNAL TURN-ON WITH PROPER TRAFFIC CONTROL IN PLACE.



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03/16/06 DATE
LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY
SUBMITTED BY			ASSISTANT DIRECTOR DATE
CHIEF TRAFFIC DIVISION DATE			DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED _____ 2006
MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR
REGISTERED CIVIL ENGINEER NO. _____
MY LICENSE EXPIRES _____
DRAWN BY: R. WOO
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CITY OF MONTCLAIR
DEVELOPMENT SERVICES DEPARTMENT
MONTE VISTA AVENUE GRADE SEPARATION
TRAFFIC SIGNAL PLAN
STATE STREET AT GREENWOOD AVENUE

CITY FILE NO
DRAWING NO TR-002
SHEET 43 OF 82 SHEETS