

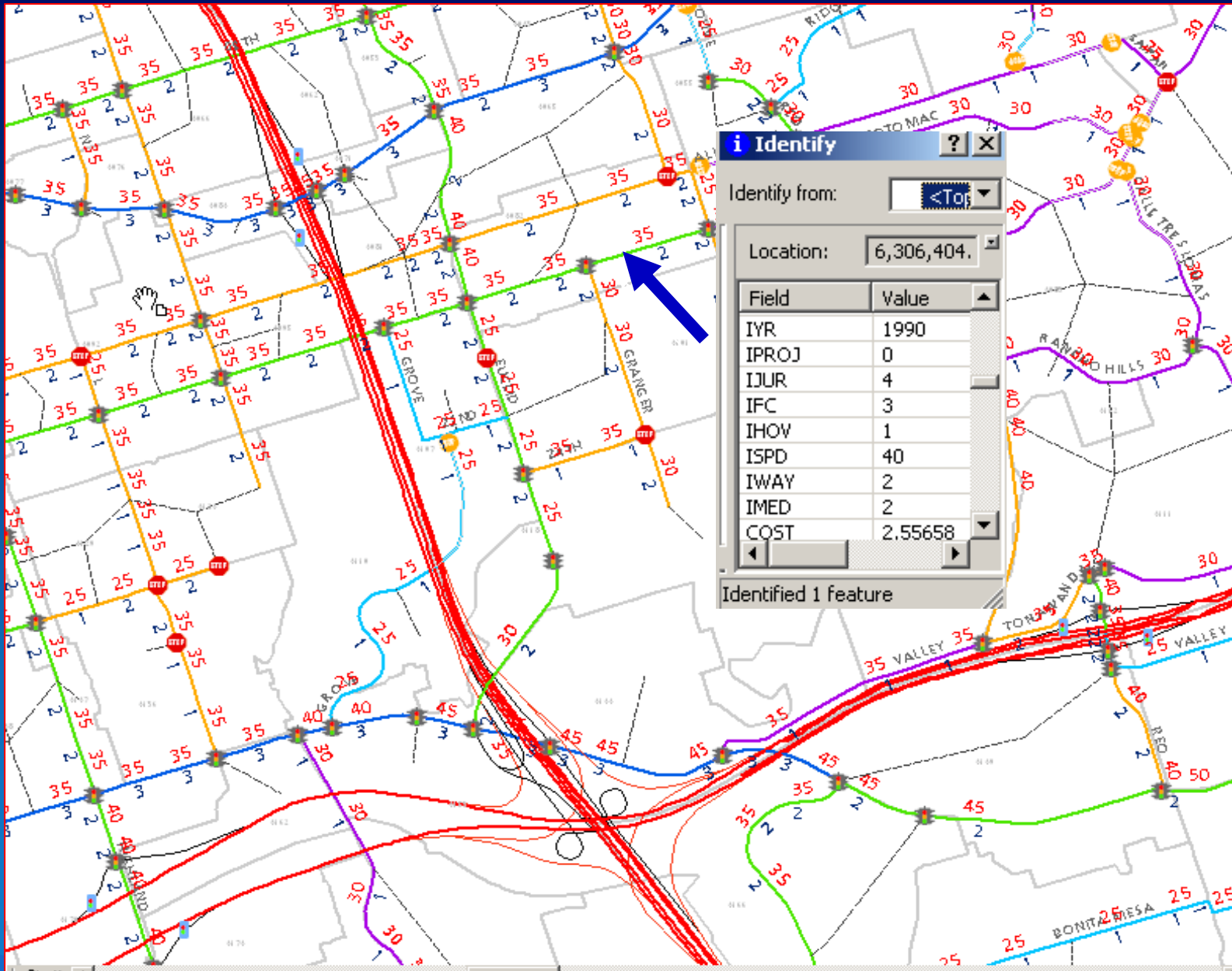
SANDAG 2010 RTIP Network coding

March 04, 2010



RTIP for SANDAG Model

- RTIP provides key inputs for building near term future network in SANDAG transportation model
- RTIP coding will be carried into RTP, Corridor Studies, Air Quality Conformity, City and County Circulation Element and GP Updates, Traffic Impact Studies, etc.



Freeway Information

Roadway Detail

- # of Mixed Flow Lanes
- # of Auxiliary or Truck Lanes
- # of HOV/ML Lanes
- Access Points

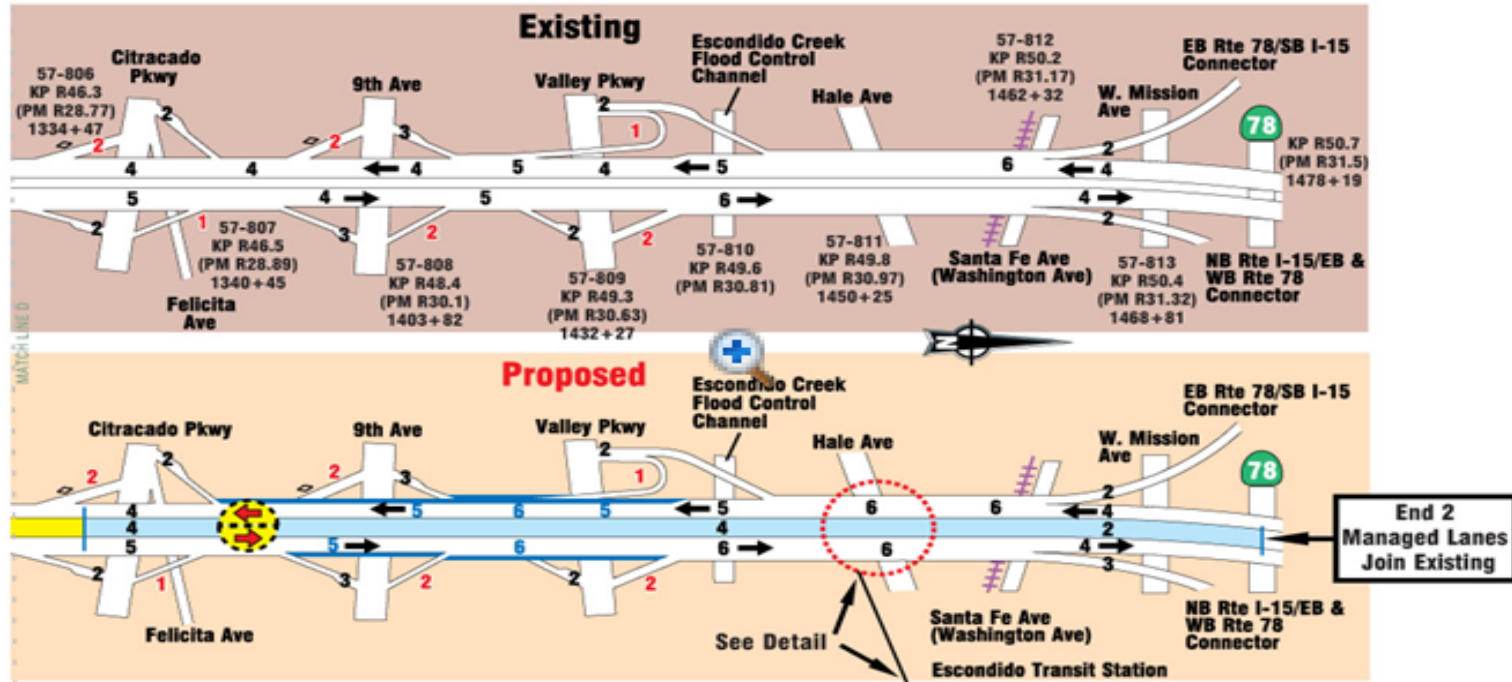
Freeway Ramps

- Ramp Meter
- # of Lanes
- Direct Access Ramp
 - Transit-Only
 - HOV & Transit
 - Managed
 - ...

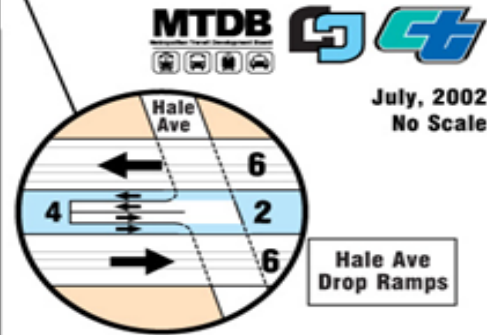


INTERSTATE 15

- ADDED/AUXILIARY LANES
- MANAGED LANES



LEGEND			
	Added/Auxiliary Lanes		Managed Lanes w/Movable Barrier
	Metered Ramp		Managed Lanes w/Fixed Barrier
	Unmetered Ramp		Direct Access Ramps
	HOV Bypass Lane		Bus Rapid Transit Center/Park & Ride Lot
	Intermediate Access		Auxiliary Lane Added



July, 2002
No Scale

Surface Street Information

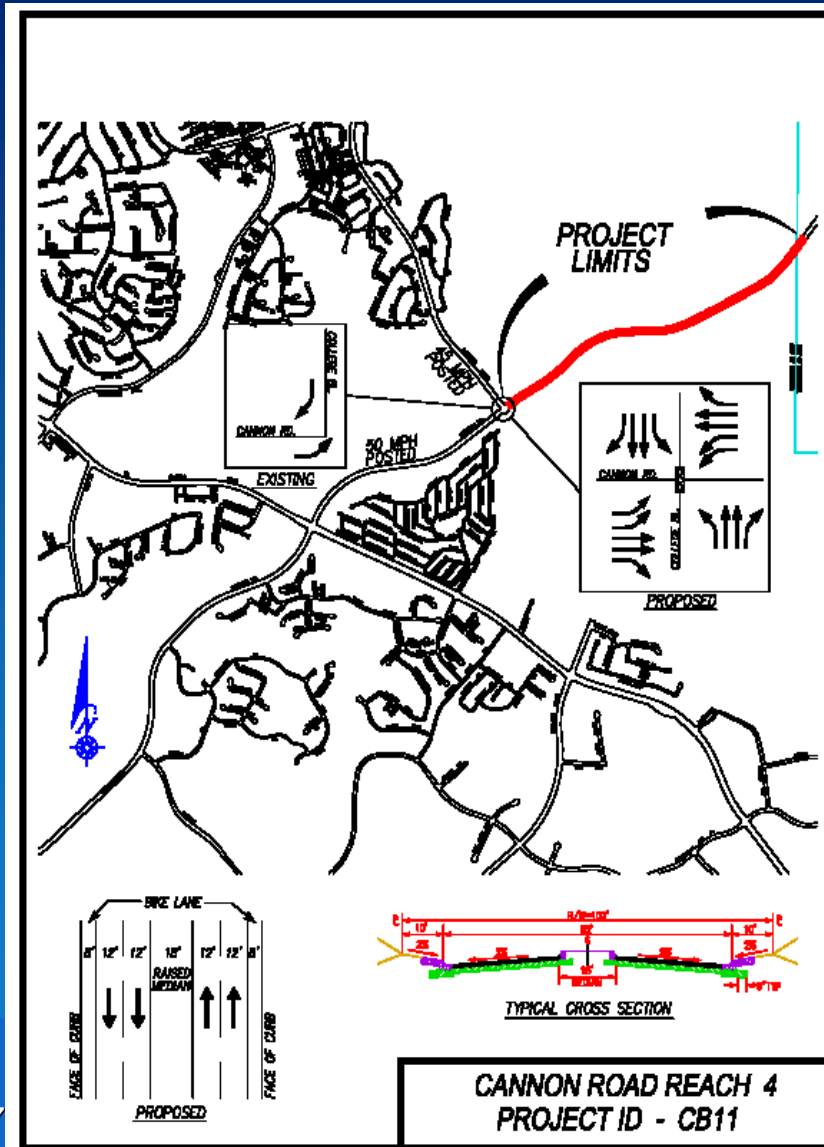
Roadway Detail

- # of Lanes
- Two way or one way
- Posted Speed
- Median Type
 - Median
 - CLT

Intersection Detail

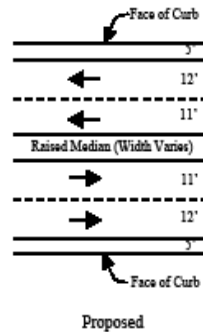
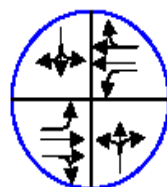
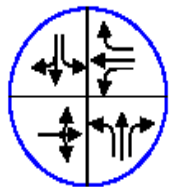
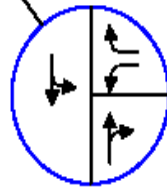
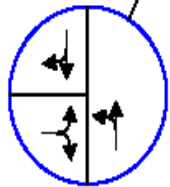
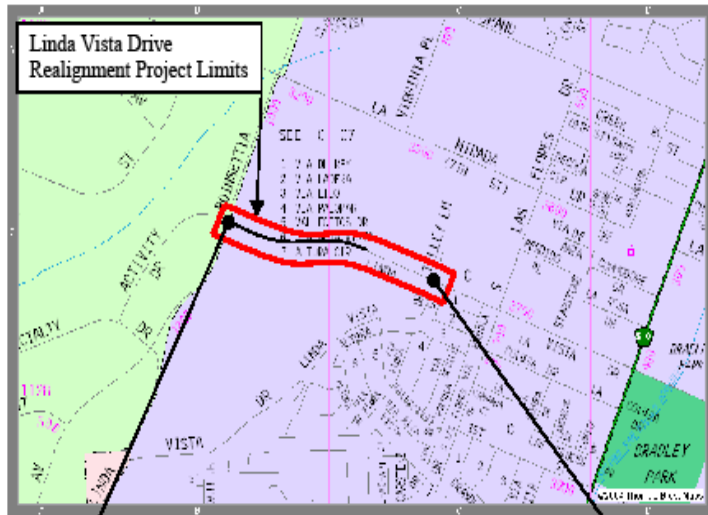
- Control Type
 - Stop (4 or 2-way)
 - Signal
- Approach Information (# of lanes)
 - Left/Thru/Right
 - Free Right
 - Prohibited Turn

Carlsbad Example



- Project Limits and Location
- Proposed # of Lanes
- Existing and Future Intersection
- Approach Information
- Control Type
- Posted / Proposed Speed

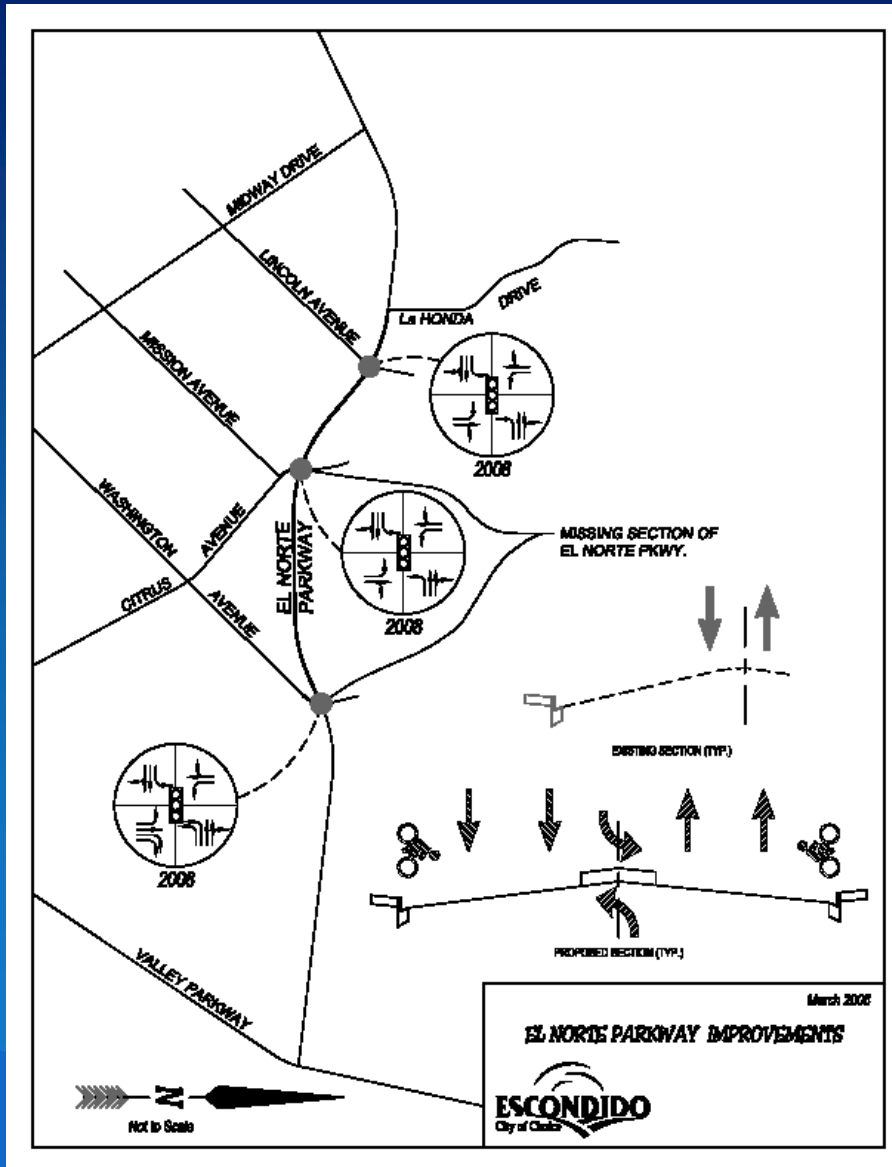
San Marcos Example



Key Elements

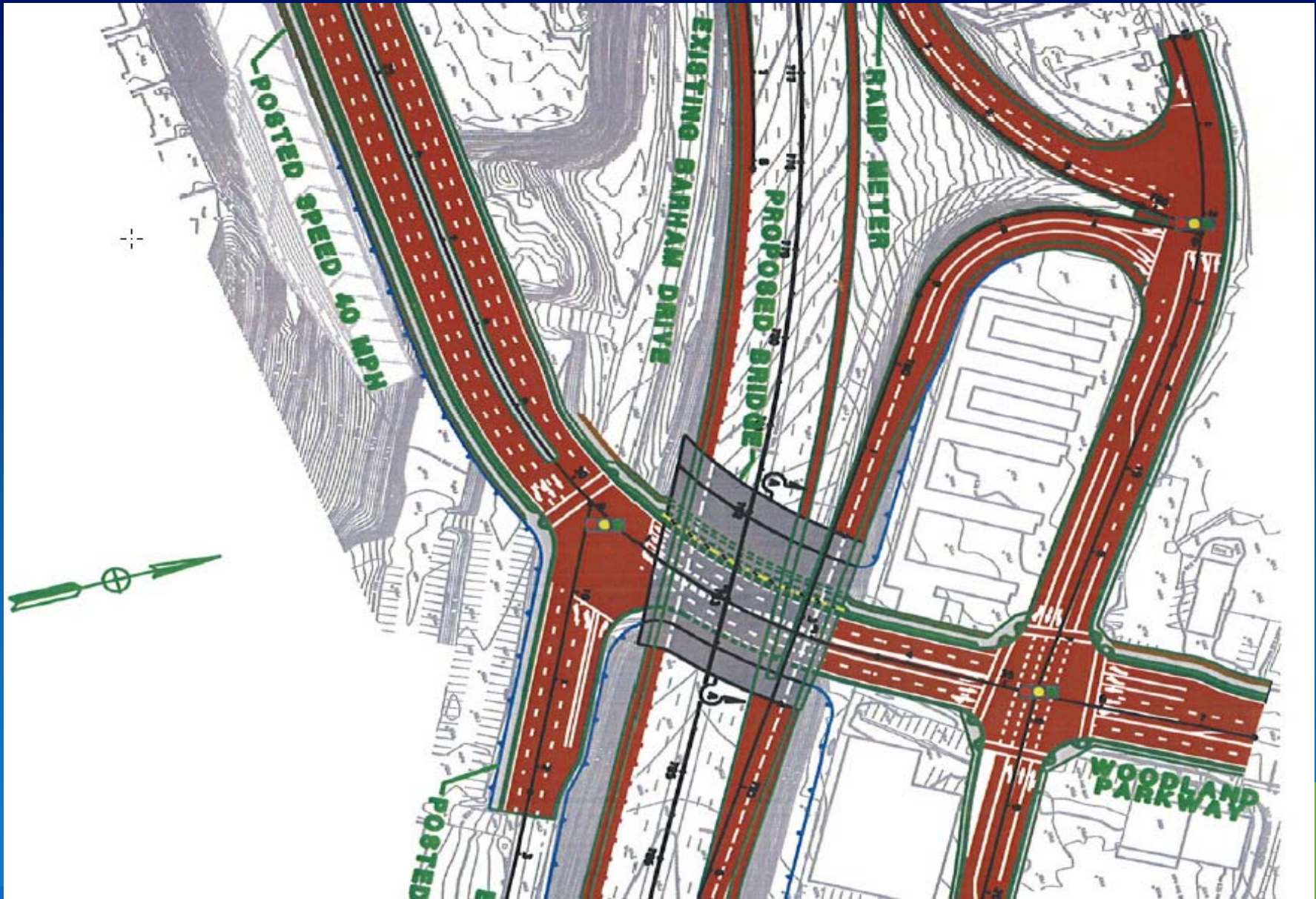
- Project Limits and Location
- Proposed # of Lanes
- Posted / Proposed Speed
- Existing and Future Intersection
 - Approach Information
 - Control Type

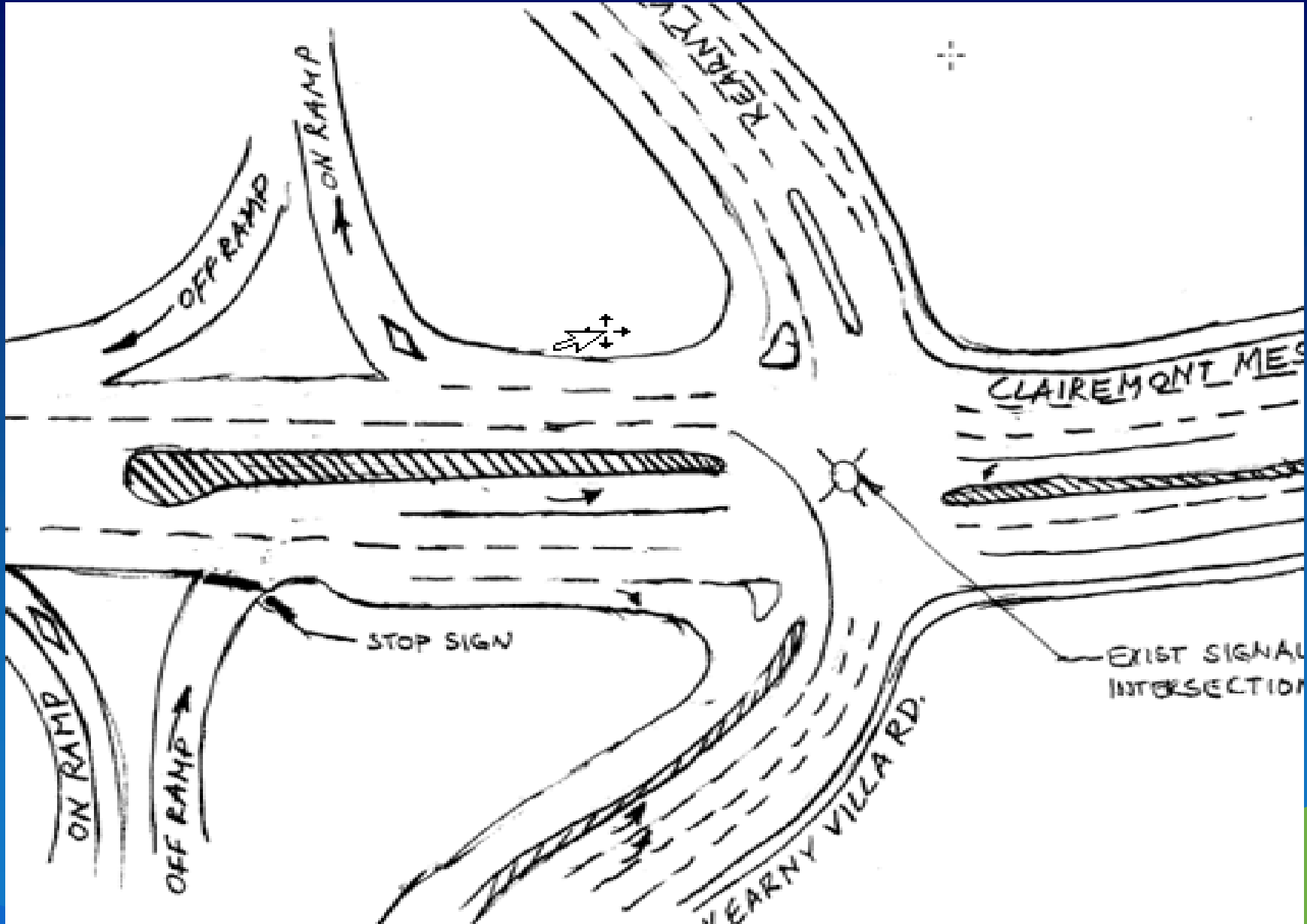
Escondido Example



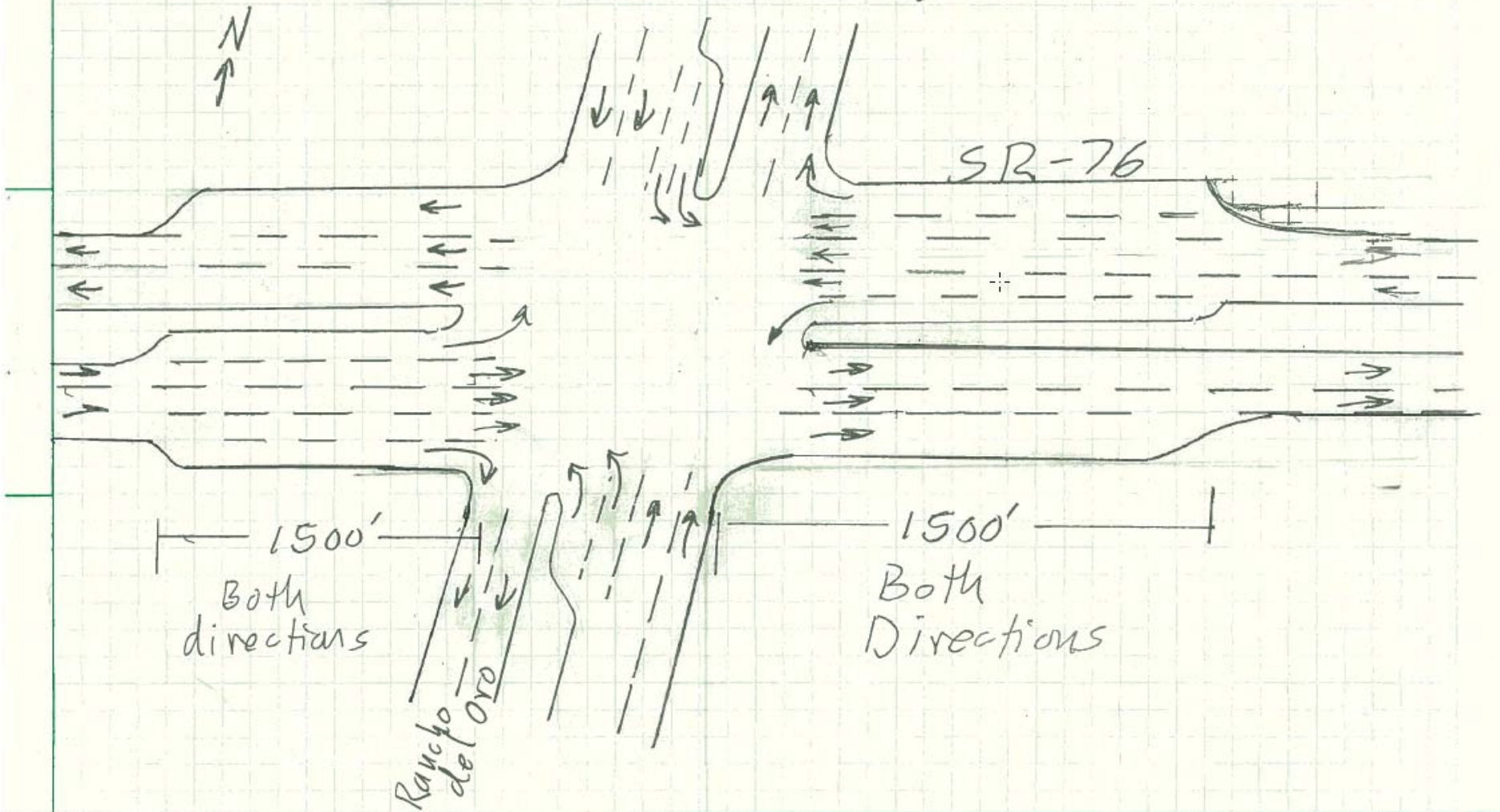
Key Elements

- Project Limits and Location
- Proposed # of Lanes
- Proposed Speed
- Existing and Future Intersection
 - Approach Information
 - Control Type



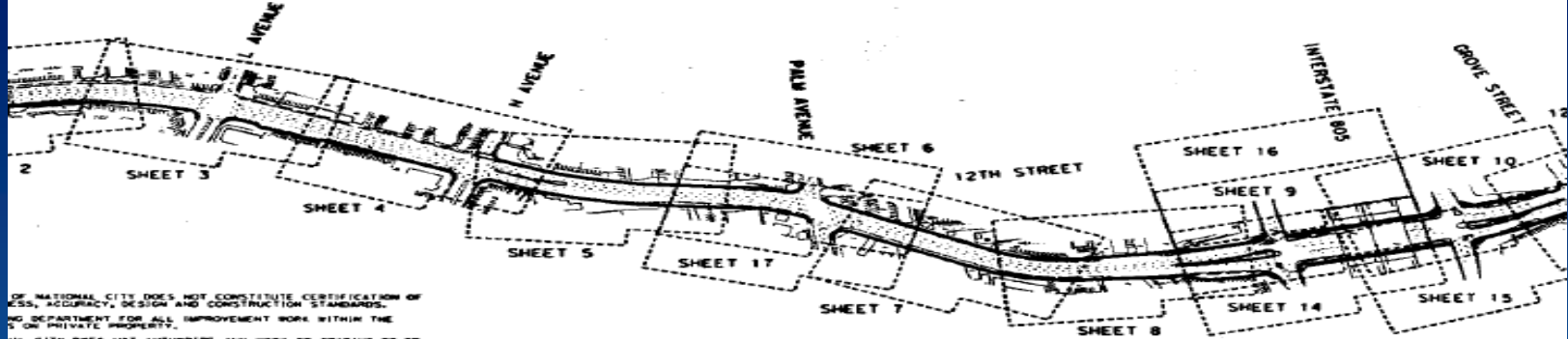


SR-76 Widening at Rancho del Oro (Planned Improvement)



fors.
1,500

PLAZA BOULEVARD WIDENING PROJECT FROM HIGHLAND AVENUE TO EUCLID AVENUE



OF NATIONAL CITY DOES NOT CONSTITUTE CERTIFICATION OF ACCURACY, DESIGN AND CONSTRUCTION STANDARDS. NO DEPARTMENT FOR ALL IMPROVEMENT WORK WITHIN THE CITY OF NATIONAL CITY DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE DONE UNLESS A VALID PERMIT HAS BEEN OBTAINED FROM THE CITY ENGINEER. THE ENGINEER IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SETTLING, CRACKING, EROSION, SINKING, OR SLURRING OF THESE PLANS. LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. THE FOLLOWING AGENCIES:

8001 422-4133
 619 424-3980
 619 427-2810
 619 424-3980
 601 409-6750
 619 424-4580
 601 422-0776

FOR TO LOCATE ALL SUBSTRUCTURE WHETHER SHOWN OR NOT AND FOR THE REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURE SHALL BE BORNE BY THE CONTRACTOR. CONSTRUCTION COMMENCES AND OF ANY CHANGES OR ADDITIONS TO THESE PLANS MUST BE APPROVED BY THE REGISTERED SOILS ENGINEERING DEPARTMENT AT THE COMPLETION OF GRADING. THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN HERE ON AT THE CONTRACTOR'S COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND LOCATE EXISTING UNDERGROUND FACILITIES. REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF WORK TO BE DONE SHALL BE CONFORMED BY FIELD



GENERAL NOTES (CONT.)

- BEFORE EXCAVATING FOR THIS CONTRACT VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A UTILITY LOCATING SERVICE. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES SHOWN ON THESE PLANS.
- NEITHER THE CITY NOR THE ENGINEER IS RESPONSIBLE TO PROVIDE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN OR HAVE DESIGNED, CONSTRUCT AND MAINTAIN, AND BE RESPONSIBLE FOR ALL SAFETY DEVICES, SIGNS, STATE AND FEDERAL SAFETY LAWS AND REGULATIONS.
- INSPECTION NOTES - NO WORK SHALL COMMENCE ON THIS PROJECT PRIOR TO A PRE-CONSTRUCTION MEETING WITH THE CITY OF NATIONAL CITY ENGINEERING DEPARTMENT. CALL THE CITY ENGINEER AT (619) 336-4380 TO SCHEDULE A MEETING.
- CHANGE ORDER - THE CHANGE ORDERS SHALL BE REQUESTED IN WRITING USING THE CITY OF NATIONAL CITY STANDARD FORM AND ATTACHED WITH PLANS SHOWING IN RED THE REVISIONS FOR APPROVAL.
- ALL OPERATIONS CONDUCTED FOR THIS PROJECT, INCLUDING THE BARRING UP, REPAIR, ARRIVAL, DEPARTURE OR REMOVAL OF TRUCKS, LOADING UNLOADING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 5:00 P.M. MONDAY THROUGH FRIDAY. PERIODS OF WORK IN THE CITY ENGINEER WILL BE REQUIRED FOR WORK BEFORE 7:00 A.M. AND AFTER 5:00 P.M.
- STRUCTURAL DESIGN OF THE STREET IMPROVEMENT SHALL BE IN ACCORDANCE WITH AN APPROVED SOILS REPORT, BUT NOT LESS THAN THE MINIMUM REQUIREMENT PER NATIONAL CITY STANDARD DRAWING 9000-022.
- ALL CURB OUTLETS OR SIDEWALK UNDERDRAINS AND CURB INLETS, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE PROTECTED IN PLACE OR REPAIRED OR REPLACED IN KIND PER 2008 REGIONAL STANDARD DRAWING. THE EXPENSE OF PROTECTING OR REPLACING SAID FACILITIES SHALL BE BORNE BY THE CONTRACTOR.

GRADING NOTES

SPECIAL NOTE
 GRADING AND STOCKPILING IS PROHIBITED BY NATIONAL CITY. ALL MATERIAL EXCAVATED AND REMOVED FROM THE SITE SHALL BE DISPOSED OF AT A SITE PRE-APPROVED BY THE CITY ENGINEER. NO EXCEPTIONS. ALL VIOLATORS WILL BE CITED WITH NOTICES OF CORRECTION, AND LEGAL ACTIONS.
 ANY TREES NOT UTILIZED IN LANDSCAPING, ABANDONED STRUCTURES, WEEDS, AND ANY OTHER RUBBISH SHALL BE REMOVED, FILED OR OTHERWISE DISPOSED OF SO AS TO LEAVE THE AREAS THAT HAVE BEEN DISTURBED WITH A NEAT AND FINISHED APPEARANCE, FREE FROM UNDESIRABLE DEBRIS.
 ALL VEGETATION MATTER AND SOIL DESIGNATED AS UNSUITABLE SHALL BE REMOVED. THE EXPOSED SURFACE SHALL THEN BE PLOWED OR SCARIFIED TO A DEPTH OF AT LEAST EIGHT INCHES UNTIL THE SURFACE IS FREE FROM ROOTS, BRANCHED, OR THE LIKE FEATURES WHICH WOULD TEND TO PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED.
 WHERE FILL IS TO BE PLACED ON NEW SIDEWALKS IS PLANNED, CARE SHOULD BE TAKEN THAT ANY EXISTING UNDERGROUND UTILITIES AND THE NATURAL GRADE SHALL BE IDENTIFIED AT LEAST 4 INCHES AND COMPACTION TO AT LEAST 95% OF MAXIMUM DENSITY. FILL SOIL SHALL BE COMPACTION TO AT LEAST 95% COMPACTION TO AT LEAST 95%.

TRAFFIC CONTROL

TRAFFIC CONTROL
 CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS TO THE CITY OF NATIONAL CITY ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. THE MINIMUM OF AT LEAST ONE LANE 11.5 FT. WIDE IN EACH DIRECTION SHALL

STATEMENT OF THE RESPONSIBLE CHARGE

I HEREBY STATE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CARE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 5703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THIS PROJECT.

BY: JOHN BODDOKKEN DATE: ESP. 12/31/08 SEAL

STANDARDS

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL CITY STANDARD DRAWINGS FOR CONSTRUCTION AND MAINTENANCE.

OWNER

CITY OF NATIONAL CITY
 1243 NATIONAL CITY BOULEVARD
 NATIONAL CITY, CALIFORNIA 91907

LEGAL DESCRIPTION

THE PROJECT IS LOCATED IN THE CITY OF NATIONAL CITY, CALIFORNIA, AND IS BOUND BY 12TH STREET AND GROVE STREET.

BENCH MARK

THE BENCH MARK IS LOCATED AT THE INTERSECTION OF DIVISION STREET & 4TH STREET, NATIONAL CITY, CALIFORNIA.

SHEET INDEX

TITLE SHEET
 TYPICAL CROSS SECTION SHEET
 LAYOUT PROFILE SHEETS
 CURB RETURN LAYOUT PROFILE SHEETS
 DRIVEWAY LAYOUT PROFILE SHEETS
 CONSTRUCTION DETAIL SHEETS
 RIGHT OF WAY APPRAISAL SHEETS
 CONTROL GRADING FORMS
 DRAINAGE PROFILE SHEETS
 UTILITY LOCATION/SIGN SHEETS
 PAVEMENT DELINEATION/SIGN SHEETS
 TRAFFIC CONTROL SHEETS
 RETAINING WALL SHEETS

RECORD DRAWING

NOTE TO CONTRACTOR: UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE CITY OF NATIONAL CITY A SET OF RECORD DRAWINGS IN RED INK AND IN ORIGINAL SIZE. THE RECORD DRAWINGS SHALL BE DIMENSIONED FROM THE ORIGINAL DRAWINGS.

65% PRELIMINARY
 NOT FOR CONSTRUCTION

PREPARED BY:
DEKOKKEN
 ENGINEERING & ARCHITECTURE
 1000 W. 15TH STREET, SUITE 200
 SAN DIEGO, CALIFORNIA 92108
 TEL: 619-594-1100 FAX: 619-594-1101
 WWW.DKOKKEN.COM

