DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE & INVESTIGATIONS 100 South Main Street, 3rd Floor LOS ANGELES, CA 90012 PHONE (213) 897-2004 FAX (213) 897-2033



Making Conservation a California Way of Life.

AUG 27 2018

OC PUBLIC WORKS DIRECTOR'S OFFICE

August 8, 2018

Mr. Shane Silsby Director of Public Works County of Orange P O Box 4048 Santa Ana, CA 92702-4048

Dear Mr. Silsby:

In accordance with Title 23 of the Code of Federal Regulations (Federal Highway Act) and the National Bridge Inspection Standards (NBIS), Caltrans Structure Maintenance and Investigations performed an inspection of 4 bridges under your jurisdiction. The type of inspection is indicated on the bridge report transmittal sheet. The bridges have been rated to indicate their deficiencies, structural adequacy, safe load carrying capacity and overall general condition.

Enclosed are copies of the Bridge Inspection Reports for the structures noted on the attached transmittal sheet. These reports contain descriptions of physical changes to the structures since the last inspection, recommendations for work to be done, and additional information not recorded in the previous Bridge Reports.

Your attention is directed to the requirements of Title 23, Part 650 of the Code of Federal Regulations, where newly completed structures or any modification of existing structures shall be entered in the inventory within 90 days. Please notify this office of any newly constructed bridge or culvert within your jurisdiction, more than 20 feet measured along the center of the roadway and carrying public vehicular traffic or over a public roadway, in order that it may be entered in the inventory of bridge structures in compliance with Federal requirements.

Should you have any questions regarding the enclosed Bridge Inspection Reports, please contact Bing Wu @ (213) 897-0874.

Sincerely,

CHING CHAO Office Chief

Structure Maintenance & Investigations - (Investigations-South)

Enclosures

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Bridge Report Transmittal Sheet

Batch 45552

| County | of Orange | Inspe | ction | Outstanding | | |
|----------|--|---------------------------|------------|-------------|------|------|
| Bridge # | Bridge Name | Location | Date | Type | Work | Cost |
| 55C0097 | SANTA ANA RIVER CHANNEL (TALBERT/MACARTHUR) | 0.6 MI W/O HARBOR BLVD. | 01/17/2018 | Routine | Y | \$ |
| 55C0103 | SANTA ANA RIVER (HAMILTON AVE) | 0.15 MI E/O BROOKHURST ST | 01/12/2018 | Routine | Y | \$ |
| 55C0283 | SUNSET CHANNEL | 100' NE/O PACIFIC CST HWY | 01/12/2018 | Routine | Y | \$ |
| 55C0344 | SANTA ANA RIVER (ADAMS AVE) | 0.5 MI E/O BROOKHURST ST | 01/17/2018 | Routine | N | \$ |

4 Bridge(s) in this Transmittal

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WEB SITES:

The National Bridge Inspection Standards (NBIS) Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Element Level Inspection, Structure Maintenance and Investigations Manuals, Local Assistance Program Guidelines and other related information are posted on Division of Maintenance, Structure Maintenance and Investigations; Division of Local Assistance, Local Highway Bridge Program (HBP) and FHWA websites.

The websites can be accessed at:

- 1. "Caltrans Structure Maintenance and Investigations" http://www.dot.ca.gov/hq/structur/strmaint/
- 2. "Caltrans Division of Local Assistance"

http/www.dot.ca.gov/hq/LocalPrograms/hbrr99/hbrr99a.htm

3. "FHWA" http/www.fhwa.dot.gov/BRIDGE/mtguide.pdf

Inspection Type Definitions

Routine Inspection:

Routine Inspections consist of both the initial Inventory Inspection (the first inspection of the bridge that places it in the bridge inventory or when there has been a change in the configuration of the structure) and subsequent regularly scheduled inspections. The initial inspection provides all the Structural Inventory & Appraisal (SI&A) data required by federal and state regulations, determines the baseline structural conditions, lists any existing problems, and establishes the load capacity of the structure. Subsequent inspections consist of observations, measurements needed to determine the physical and functional condition of the bridge, to identify any changes from the previously recorded conditions, and verification of its load capacity. These inspections are generally conducted from the deck, ground and/or water level, and from permanent work platforms and walkways, if present. Inspection of underwater portions of the substructure is limited to observations during low-flow periods and/or probing for signs of undermining. Special equipment should be utilized in circumstances where its use provides the only practical access to areas of the structure.

Fracture Critical, Special Feature & Underwater Inspections:

Fracture Critical, Special Feature, and Underwater Inspections are up close, hands-on inspections of one or more members above or below the water level to identify any deficiencies not readily detectable using Routine Inspection procedures. These inspections generally require special equipment such as under-bridge inspection equipment, manlifts, boats, traffic control, and railroad flagging. Personnel with special skills such as divers or structural steel inspectors trained in non-destructive testing techniques may be required.

Other Inspections:

Other Inspections are conducted on damaged structures, structures that have developed specific problems, or structures suspected of developing problems. The scope of these investigations should be sufficient to determine the need for emergency load restrictions or closure of the structure, monitor a changing condition, and to assess the level of effort necessary to effect a repair.



Structure Maintenance & Investigations

Bridge Number : 55C0103

Facility Carried: HAMILTON-VICTORIA

Location : 0.15 MI E/O BROOKHURST S

City

Inspection Date: 01/12/2018

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: SANTA ANA RIVER (HAMILTON AVE)

CONSTRUCTION INFORMATION

 Year Built : 1979
 Skew (degrees): 16

 Year Modified: 1992
 No. of Joints : 3

 Length (m) : 194
 No. of Hinges : 1

Structure Description: Continuous 7 span CIP/RC box girder (9 cells) with RC piers and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (W) 81.0 ft, 3 @ 94.0 ft, 81.0 ft, 94.0 ft, 92.5 ft (E)

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18+MOD OR HS-20+MOD

Inventory Rating: RF=1.00 =>32.4 metric tons Calculation Method: ASSIGNED (LFD)
Operating Rating: RF=1.67 =>54.1 metric tons Calculation Method: ASSIGNED (LFD)

Permit Rating : PPPPP

Posting Load : Type 3: Legal Type 3S2: Legal Type 3-3: Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (N) 1.0 ft br, 5.0 ft sw, 78.0 ft, 5.0 ft sw, 1.0 ft br (S)

Total Width: 27.4 m Net Width: 23.8 m No. of Lanes: 4 Speed: 45 mph
Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 inches

Rail Code: 1000

DESCRIPTION UNDER STRUCTURE

Channel Description: Santa Ana River: Sandy bottom with grouted rock slopes through the site.

Greenville-Banning: Sandy bottom with RC vertical walls.

NOTICE

The bridge inspection condition assessment used for this inspection is based on the American Association of State Highway and Transportation Officials (AASHTO) Bridge Element Inspection Manual 2013 as defined in Moving Ahead for Progress in the 21st Century (MAP-21) federal law. The new element inspection methodology may result in changes to related condition and appraisal ratings on the bridge without significant physical changes at the bridge.

The element condition information contained in this report represents the current condition of the bridge based on the most recent routine and special inspections. Some of the notes presented below may be from an inspection that occurred prior to the date noted in this report. Refer to the Scope and Access section of this inspection report for a description of which portions of the bridge were inspected on this date.

INSPECTION COMMENTARY

SCOPE AND ACCESS

A complete routine inspection of all visible bridge elements was performed by walking on, around and under the structure. The bridge deck and underside of the structure was evaluated visually and by using binoculars.

Printed on: Wednesday 08/01/2018 12:43 PM

55C0103/AAAK/45552

INSPECTION COMMENTARY

DECK AND ROADWAY

The joint seals are lost adhesion and dirt were filled in between the rubber and the concrete.

The southerly bridge railing nuts are missing at the following locations.

Span #4, second post from the existing electrollier at station 16+90.38.

Span #4, fourth post from the existing electrollier at station 16+90.38.

Span #5, third post from the existing electrollier at station 18+20.38.

There is a 3 inches H X 8 inches L X 1 inch D spall at the southerly bridge rail, under the electrolier in span #4. Furthermore, there is a a 3 inches H X 8 inches L X 1 inch D spall with rebar exposed at the southerly bridge rail, approximately 4 ft from the hinge in span #6.

SUPERSTRUCTURE

The superstructure is in satisfactory condition.

SUBSTRUCTURE

The substructure is in satisfactory condition.

SAFE LOAD CAPACITY

A Load Rating Summary Sheet dated 05/10/2010 is on file for this structure. The load rating for this structure is being reviewed by SM&I Ratings Branch. An updated Load Rating Summary Sheet will be archived when this review is completed.

WATERWAY

There are no issues with the waterway.

| ELEMENT INSPECTION RATINGS AND COMMENTARY | | | | | | | | | | |
|---|--|----------------------------------|-----|--------------|-------|------|---------|---|---|--|
| Elem No. | Defect De /Prot | fect Element Description | Env | Total Qty | Units | | each Co | | | |
| 16 | | Top Flange-RC | 2 | 5335 | sq.m | 5335 | 0 | 0 | 0 | |
| | 521 | Concrete Coat. (Meth/Paint/Seal) | 2 | 2450 | sq.m | 2450 | 0 | 0 | 0 | |
| (16) | | | | | | | | | | |
| There | There were no significant defects noted. | | | | | | | | | |
| (16-52 | (16-521) | | | | | | | | | |
| There were no significant defects noted. | | | | | | | | | | |
| 105 | | Box Girder-RC | 2 | 390 | m | 390 | 0 | 0 | 0 | |
| (105) | | | | | | | | | | |
| There | There were no significant defects noted. | | | | | | | | | |
| 210 | | Pier Wall-RC | 2 | 180 | m | 180 | 0 | 0 | 0 | |
| (210) | | | | | | | | | | |
| There | There were no significant defects noted. | | | | | | | | | |
| 215 | | Abutment-RC | 2 | 60 | m | 60 | 0 | 0 | 0 | |

| Defect Defect /Prot | ct Element Description | Env | Qty | Units | Qty in St. 1 | | | |
|------------------------|---|--|--|--|---|---|--|---|
| ere no sigr | ificant defects noted | | | | | | | |
| | | 2 | 1 | e a | 1 | | 0 | 0 |
| | | | 1 | ea. | 1 | U | U | U |
| | | | | | | _ | | |
| | | | | | | | | |
| for visual | inspection. No indication of pile | distre | ss was | noted | in any | substr | ucture | elemen |
| | Joint-Compression Seal | 2 | 87 | m | 27 | 60 | 0 | 0 |
| 2320 | Seal Adhesion (Joints) | 2 | 60 | | 0 | 60 | 0 | 0 |
| • | | d in bet | ween | the rul | | | | 0 |
| | | | | | | | | |
| ere no sign | ificant defects noted. | | | | | | | |
| | Railing-Other | 2 | 136 | m | 134 | 0 | 2 | 0 |
| 1020 | Connection | 2 | 1 | | 0 | 0 | 1 | 0 |
| 1020 | | | 1 | | 0 | 0 | 1 | 0 |
| 1080 | Delamination/Spall/Patched Area | 2 | | | | | | |
| | Delamination/Spall/Patched Area | | | | | | | |
| 1080 | Delamination/Spall/Patched Area ificant defects noted. | | | | | | | |
| | ere no sign e element i for visual 2320 20) nt seals ar | ere no significant defects noted. Pile-RC e element is included to indicate the presence for visual inspection. No indication of pile Joint-Compression Seal 2320 Seal Adhesion (Joints) 20) nt seals are lost adhesion and dirt were filled Railing-RC ere no significant defects noted. | ere no significant defects noted. Pile-RC 2 e element is included to indicate the presence of pile for visual inspection. No indication of pile distrest Joint-Compression Seal 2 2320 Seal Adhesion (Joints) 2 200) nt seals are lost adhesion and dirt were filled in between Railing-RC 2 ere no significant defects noted. | ere no significant defects noted. Pile-RC 2 1 e element is included to indicate the presence of piles on for visual inspection. No indication of pile distress was Joint-Compression Seal 2 87 2320 Seal Adhesion (Joints) 2 60 20) ht seals are lost adhesion and dirt were filled in between Railing-RC 2 252 ere no significant defects noted. | ere no significant defects noted. Pile-RC 2 1 ea. e element is included to indicate the presence of piles on this s for visual inspection. No indication of pile distress was noted Joint-Compression Seal 2 87 m 2320 Seal Adhesion (Joints) 2 60 20) nt seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals are lost adhesion and dirt were filled in between the rules at large recommendation and the seals at large recommendation and the seals are lost adhesion and the | ere no significant defects noted. Pile-RC 2 1 ea. 1 e element is included to indicate the presence of piles on this structure for visual inspection. No indication of pile distress was noted in any Joint-Compression Seal 2 87 m 27 2320 Seal Adhesion (Joints) 2 60 0 20) Int seals are lost adhesion and dirt were filled in between the rubber and Railing-RC 2 252 m 252 ere no significant defects noted. | ere no significant defects noted. Pile-RC 2 1 ea. 1 0 e element is included to indicate the presence of piles on this structure. The for visual inspection. No indication of pile distress was noted in any substr Joint-Compression Seal 2 87 m 27 60 2320 Seal Adhesion (Joints) 2 60 0 60 20) at seals are lost adhesion and dirt were filled in between the rubber and the content of the conte | ere no significant defects noted. Pile-RC 2 1 ea. 1 0 0 e element is included to indicate the presence of piles on this structure. The piles for visual inspection. No indication of pile distress was noted in any substructure Joint-Compression Seal 2 87 m 27 60 0 2320 Seal Adhesion (Joints) 2 60 0 60 0 20) at seals are lost adhesion and dirt were filled in between the rubber and the concrete Railing-RC 2 252 m 252 0 0 ere no significant defects noted. |

(333-1080)

There is a 3 inches H X 8 inches L X 1 inch D spall at the southerly bridge rail, under the electrolier in span #4. Furthermore, there is a a 3 inches H X 8 inches L X 1 inch D spall with rebar exposed at the southerly bridge rail, approximately 4 ft from the hinge in span #6.

WORK RECOMMENDATIONS

Status : PROPOSED

RecDate: 01/12/2018 EstCost: Repair all spalls and install all missing

Action : Railing-Repair StrTarget: 2 YEARS nuts along both rails.

Work By: LOCAL AGENCY DistTarget:

Span #5, third post from the existing electrollier at station 18+20.38

electrollier at station 16+90.38. Span #4, fourth post from the existing

electrollier at station 16+90.38. Span #5, third post from the existing electrollier at station 18+20.38.

Span #4, second post from the existing

There is a 3 inches H X 8 inches L X 1 inch D spall at the southerly bridge

rail, under the electrolier in span #4.

WORK RECOMMENDATIONS

Furthermore, there is a a 3 inches H X 8 inches L X 1 inch D spall with rebar exposed at the southerly bridge rail, approximately 4 ft from the hinge in span #6.

| CHANNEL | X-SECTION | | | |
|----------|--------------|----------|---------|----------------------------|
| Side : | Upstream | | | X-Section Date: 01/12/2018 |
| Measured | From :Soffit | | | |
| Location | | Horiz(m) | Vert(m) | Comments |
| Abutment | 1 | 0.00 | 0.54 | face of abutment |
| | | 8.66 | 1.95 | Toe of Slope |
| | | 17.45 | 3.87 | Toe of Slope |
| | | 21.58 | 3.95 | edge of pavement |
| Pier 2 | | 24.77 | 4.71 | |
| | | 35.75 | 6.68 | |
| | | 42.05 | 6.52 | |
| Pier 3 | | 53.57 | 6.87 | |
| | | 62.43 | 6.79 | |
| | | 68.50 | 6.85 | |
| Pier 4 | | 82.37 | 7.23 | |
| | | 91.22 | 6.89 | |
| | | 104.99 | 6.78 | |
| Pier 5 | | 111.18 | 6.81 | |

Team Leader : Matthew M. Monajemi

Report Author: Matthew M. Monajemi

Inspected By : MM.Monajemi/Y.Chen

Matthew M. Monajemi (Registered Civil Engineer)

(Date



STRUCTURE INVENTORY AND APPRAISAL REPORT

| | ************************************** | | ************************************** |
|-------|--|-------|---|
| (1) | STATE NAME- CALIFORNIA 069 | | STATUS |
| (8) | STRUCTURE NUMBER 55C0103 | | ****** |
| (5) | INVENTORY ROUTE (ON/UNDER) - ON 140000000 | | 200.0 |
| (2) | HIGHWAY AGENCY DISTRICT 12 | | PAINT CONDITION INDEX = N/A |
| (3) | COUNTY CODE 059 (4) PLACE CODE 00000 | | ********* CLASSIFICATION ******** CODE |
| (6) | FEATURE INTERSECTED- SANTA ANA RIVER | | NBIS BRIDGE LENGTH- YES Y |
| (7) | FACILITY CARRIED- HAMILTON-VICTORIA | | HIGHWAY SYSTEM- NOT ON NHS 0 |
| (9) | LOCATION- 0.15 MI E/O BROOKHURST ST | (26) | FUNCTIONAL CLASS- MINOR ARTERIAL URBAN 16 |
| (11) | MILEPOINT/KILOMETERPOINT 0 | (100) | DEFENSE HIGHWAY- NOT STRAHNET 0 |
| (12) | BASE HIGHWAY NETWORK- NOT ON NET 0 | (101) | PARALLEL STRUCTURE- NONE EXISTS N |
| (13) | LRS INVENTORY ROUTE & SUBROUTE | (102) | DIRECTION OF TRAFFIC- 2 WAY 2 |
| (16) | LATITUDE 33 DEG 39 MIN 01.76 SEC | (103) | TEMPORARY STRUCTURE- |
| (17) | LONGITUDE 117 DEG 57 MIN 08.31 SEC | (105) | FED.LANDS HWY- NOT APPLICABLE 0 |
| (98) | BORDER BRIDGE STATE CODE % SHARE % | (110) | DESIGNATED NATIONAL NETWORK - PART OF NET 1 |
| (99) | BORDER BRIDGE STRUCTURE NUMBER | (20) | TOLL- ON FREE ROAD 3 |
| | | (21) | MAINTAIN- COUNTY HIGHWAY AGENCY 02 |
| | ******* STRUCTURE TYPE AND MATERIAL ******* | (22) | OWNER- COUNTY HIGHWAY AGENCY 02 |
| (43) | STRUCTURE TYPE MAIN: MATERIAL- CONCRETE CONT | (37) | HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5 |
| | TYPE- TEE BEAM CODE 204 | | ********** CONDITION ********** CODE |
| (44) | STRUCTURE TYPE APPR:MATERIAL- OTHER/NA | | |
| | TYPE- OTHER/NA CODE 000 | | DECK 7 SUPERSTRUCTURE 7 |
| | NUMBER OF SPANS IN MAIN UNIT 7 | 1 / | , |
| (46) | NUMBER OF APPROACH SPANS 0 | | SUBSTRUCTURE 7 CHANNEL & CHANNEL PROTECTION 9 |
| (107) | DECK STRUCTURE TYPE- CIP CONCRETE CODE 1 | | |
| (108) | WEARING SURFACE / PROTECTIVE SYSTEM: | (62) | CULVERTS |
| A) | TYPE OF WEARING SURFACE- NONE CODE 0 | | ****** LOAD RATING AND POSTING ****** CODE |
| | TYPE OF MEMBRANE- NONE CODE 0 | (31) | DESIGN LOAD- MS-18+MOD OR HS-20+MOD 6 |
| C) | TYPE OF DECK PROTECTION- NONE CODE 0 | (63) | OPERATING RATING METHOD- ASSIGNED (LFD) A |
| | ******** AGE AND SERVICE ********* | (64) | OPERATING RATING- 54.1 |
| (27) | YEAR BUILT 1979 | (65) | INVENTORY RATING METHOD- ASSIGNED (LFD) A |
| (106) | YEAR RECONSTRUCTED 1992 | (66) | INVENTORY RATING- 32.4 |
| (42) | TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5 | (70) | BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5 |
| | UNDER- WATERWAY 5 | | STRUCTURE OPEN, POSTED OR CLOSED- A |
| | LANES:ON STRUCTURE 04 UNDER STRUCTURE 00 | | DESCRIPTION- OPEN, NO RESTRICTION |
| , , | AVERAGE DAILY TRAFFIC 30000 | | |
| (30) | YEAR OF ADT 2010 (109) TRUCK ADT 2 % | | ********* APPRAISAL *********** CODE |
| (19) | BYPASS, DETOUR LENGTH 5 KM | | STRUCTURAL EVALUATION 7 |
| | ******** GEOMETRIC DATA ********** | | DECK GEOMETRY 9 |
| (48) | LENGTH OF MAXIMUM SPAN 28.8 M | | UNDERCLEARANCES, VERTICAL & HORIZONTAL N |
| (49) | STRUCTURE LENGTH 194.0 M | | WATER ADEQUACY 9 |
| (50) | CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.5 M | | APPROACH ROADWAY ALIGNMENT 8 |
| (51) | BRIDGE ROADWAY WIDTH CURB TO CURB 23.8 M | | TRAFFIC SAFETY FEATURES 1000 |
| (52) | DECK WIDTH OUT TO OUT 27.4 M | (113) | SCOUR CRITICAL BRIDGES 8 |
| (32) | APPROACH ROADWAY WIDTH (W/SHOULDERS) 24.0 M | | ****** PROPOSED IMPROVEMENTS ******* |
| (33) | BRIDGE MEDIAN- NO MEDIAN 0 | (75) | TYPE OF WORK- CODE |
| (34) | SKEW 16 DEG (35) STRUCTURE FLARED NO | (76) | LENGTH OF STRUCTURE IMPROVEMENT M |
| (10) | INVENTORY ROUTE MIN VERT CLEAR 99.99 M | (94) | BRIDGE IMPROVEMENT COST |
| | INVENTORY ROUTE TOTAL HORIZ CLEAR 23.8 M | (95) | ROADWAY IMPROVEMENT COST |
| | MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M | (96) | TOTAL PROJECT COST |
| | MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M | (97) | YEAR OF IMPROVEMENT COST ESTIMATE |
| | MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M | (114) | FUTURE ADT 50289 |
| (56) | MIN LAT UNDERCLEAR LT 0.0 M | (115) | YEAR OF FUTURE ADT 2036 |
| | ********* NAVIGATION DATA ********* | | ************************************** |
| (38) | NAVIGATION CONTROL- NOT APPLICABLE CODE N | (90) | |
| (111) | PIER PROTECTION- CODE | | INSPECTION DATE 01/18 (91) FREQUENCY 48 MO CRITICAL FEATURE INSPECTION: (93) CFI DATE |
| (39) | NAVIGATION VERTICAL CLEARANCE 0.0 M | | FRACTURE CRIT DETAIL- NO MO A) |
| (116) | VERT-LIFT BRIDGE NAV MIN VERT CLEAR M | | UNDERWATER INSP- NO MO B) |
| (40) | NAVIGATION HORIZONTAL CLEARANCE 0.0 M | | OTHER SPECIAL INSP- NO MO C) |
| | | -, | |