

ORANGE COUNTY PUBLIC WORKS

SANTA ANA, CALIFORNIA

SHANE SHILBY, DIRECTOR

PLANS FOR CONSTRUCTION OF

MAINTENANCE OF VARIOUS BRIDGES IN ORANGE COUNTY

PHASE 1 - PROJECT No. 3, LOWER SANTA ANA RIVER AREA W.O. NO. ER09345 **APRIL** 2014

COUNTY OF ORANGE

MAINTAINED BY: COUNTY OF ORANGE

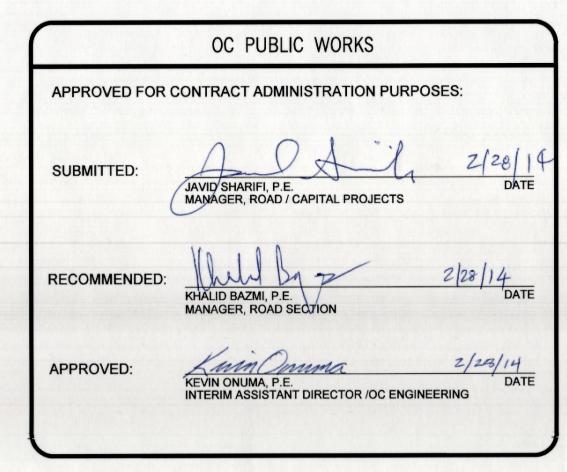
CITY OF COSTA MESA FOR BR. NO. 55C-0103 AND 55C-0344

Resident Engineer: Hamid Abedzadeh

Inspector: Michael Romero/Amit Verma

Contractor: West Coast Structures, Inc. dba Western Structures

Date of Completion: November 4, 2014



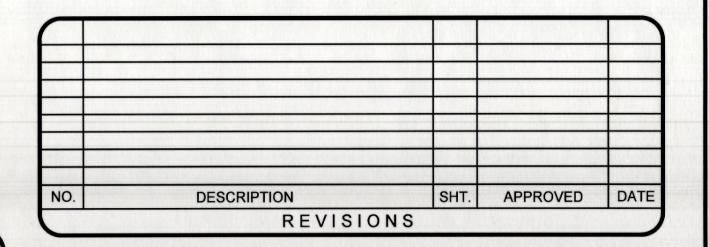
NO AS BUILT CHANGES

UNDERGROUND SERVICE ALERT

CALL 1-800-422-4133 TWO (2)
WORKING DAYS PRIOR TO EXCAVATION

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Bridge No.	Utility Company	Phone No.	Contact
55C-0097	AT &T	714-237-6945/6947	Bob Steurtevant / Doug Dipaolo
	Orange County Sanitation District	714-593-7242	Rich Leon
	Mesa Water District	949-631-1291	Mark Pelka
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Suneys LLC	951-256-0474	Steve Alfonsi
	Clear Channel	213-305-0045	Kevin Kocic
	City of Fountain Valley	714-593-4433	Temo Galvez
	M Power Communications	949-864-0296	Mark Denning
	SC Gas	714-634-3039	Don Amador
	Time Warner Cable	714-903-4032	Larry Lilly
	Orange County Water District	714-378-3232	Chris Olsen
	Wilcon	951-545-7056	Tameion Saputo
55C-0371	AT &T	714-237-6945/6947	Bob Steurtevant / Doug Dipaolo
	Orange County Sanitation District	714-593-7242	Rich Leon
	Mesa Water District	949-631-1291	Mark Pelka
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Suneys LLC	951-256-0474	Steve Alfonsi
	Clear Channel	213-305-0045	Kevin Kocic
	City of Fountain Valley	714-593-4433	Temo Galvez
	M Power Communications	949-864-0296	Mark Denning
	SC Gas	714-634-3039	Don Amador
	Time Warner Cable	714-903-4032	Larry Lilly
	Orange County Water District	714-378-3232	Chris Olsen
	Wilcon	951-545-7056	Tameion Saputo
55C-0103	Orange County Sanitation District	714-962-2411	Rich Leon
	Mesa Consolidated	949-631-1291	Mark Pelka
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Orange County Water District	714-378-3232	Chris Olsen
55C-0344	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Orange County Sanitation District	714-962-2411	Rich Leon
	cox	714-923-2727	Rob Hamers
	AT&T	714-237-6945	Bob Sturtevant
	Mesa Consolidated	949-631-1291	Mark Pelka
	Orange County Water District	714-378-3232	Chris Olsen
55C-0631	Verizon Wireless	818-898-2352	Mathew Kang
-50 0031	Orange County Sanitation District	714-962-2411	Rich Leon
	AT&T	714-237-6945	Bob Sturtevant
	SC Gas	714-634-3039	Don Amador
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	MCI Communications (Verizon Business)	951-536-1200	Dan Garden



W. O. NO. __ER09345

SHEET

LEGEND

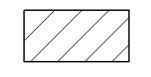
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Indicates existing.

Indicates direction of traffic.



Indicates direction of flow.



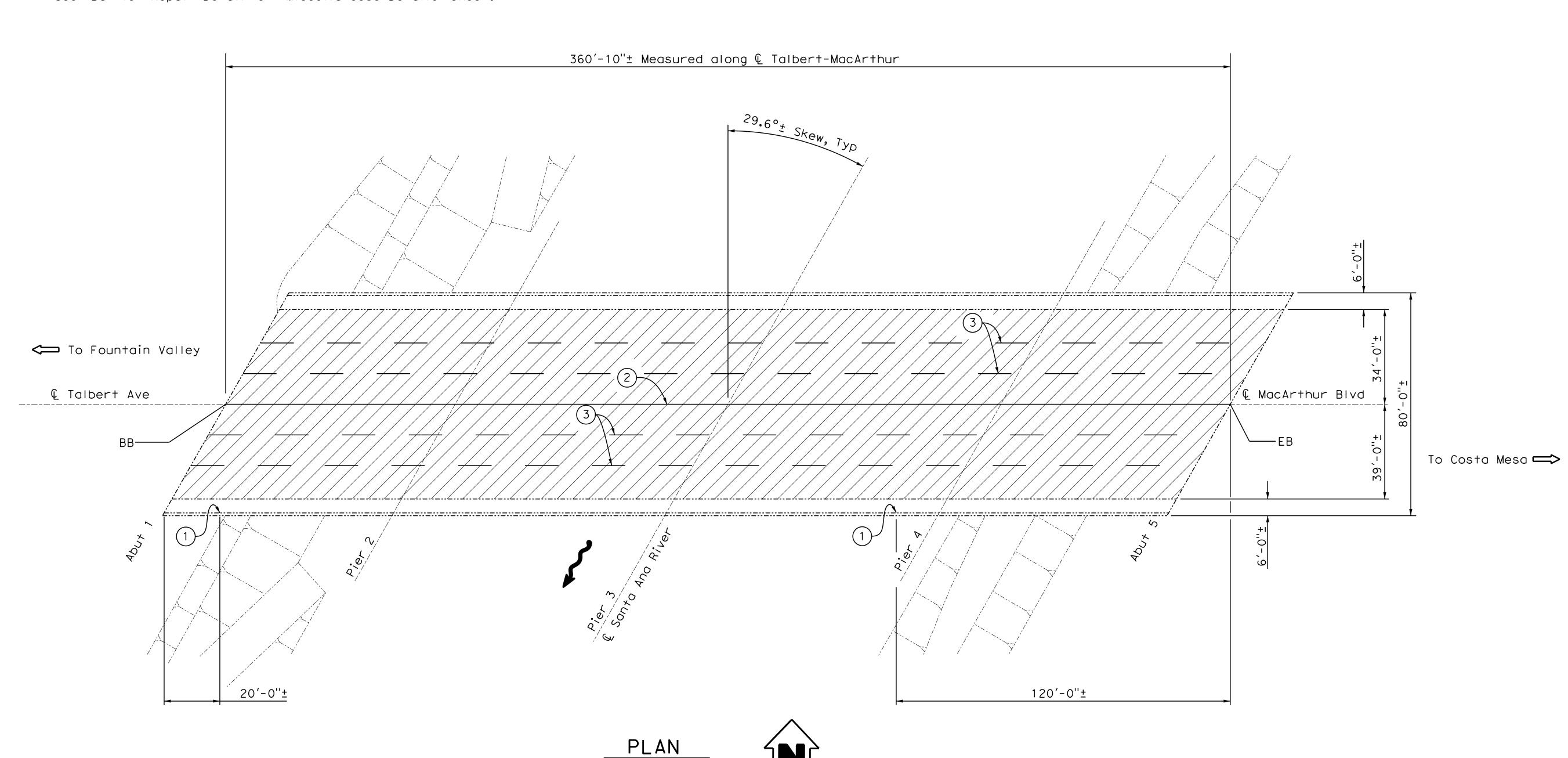
Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.

(1)

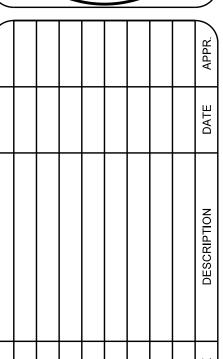
Repair concrete spall on inside face of concrete railing at base of bridge mounted electrolier (total 2). See "Barrier Repair Detail" on "Miscellaneous Details" sheet.

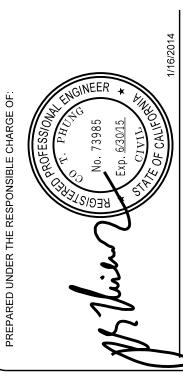
Remove and replace existing striping and pavement markers per "Caltrans Standard Plan A20A Detail 21 And Detail 23".

Remove and replace existing striping and pavement markers per "Caltrans Standard Plan A20A Detail 9 and Detail 10".



1"=20'





PUBLIC WORKS	DRAWN BY:	CHECKED BY:
	CP/KN	E. FRONDOSO
	DRAWING CODE:	
APTIAL PROJECTS	FILE NAME:	
	PLOT DATE:	SCALE:
	3/3/2014	AS NOTED

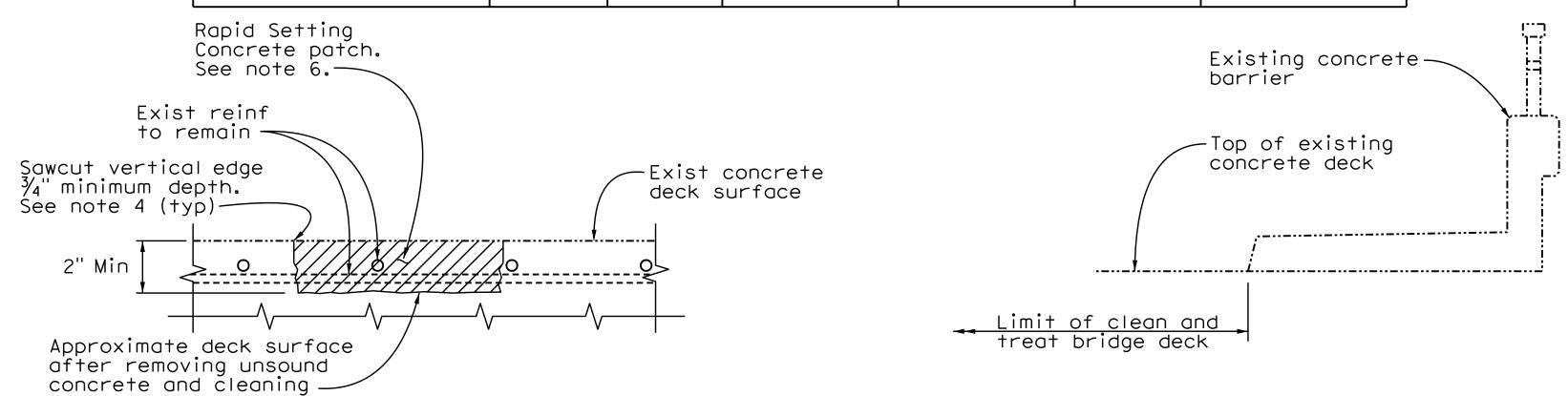
AIN LENANCE OF VARIOUS
IDGES IN ORANGE COUNTY
OWER SANTA ANA RIVER
AREA BRIDGES - PHASE I
ALBERT - MACARTHUR
BRIDGE ACROSS

SHEET REFERENCE NUMBER

GENERAL PLAN

SHEET 2 OF 26

DECK REPAIR TABLE REMOVE UNSOUND APPROXIMATE APPROXIMATE RAPID SETTING BRIDGE DECK AREA DAMAGED BRIDGE NAME DEPTH (INCHES) CONCRETE PATCH CONCRETE NUMBER AREA (%) (CF) (SQ FT) (CF) Talbert - Macarthur Bridge Across Santa Ana River |55C-0097| 26,341 88 88



DECK DAMAGE REPAIR DETAIL

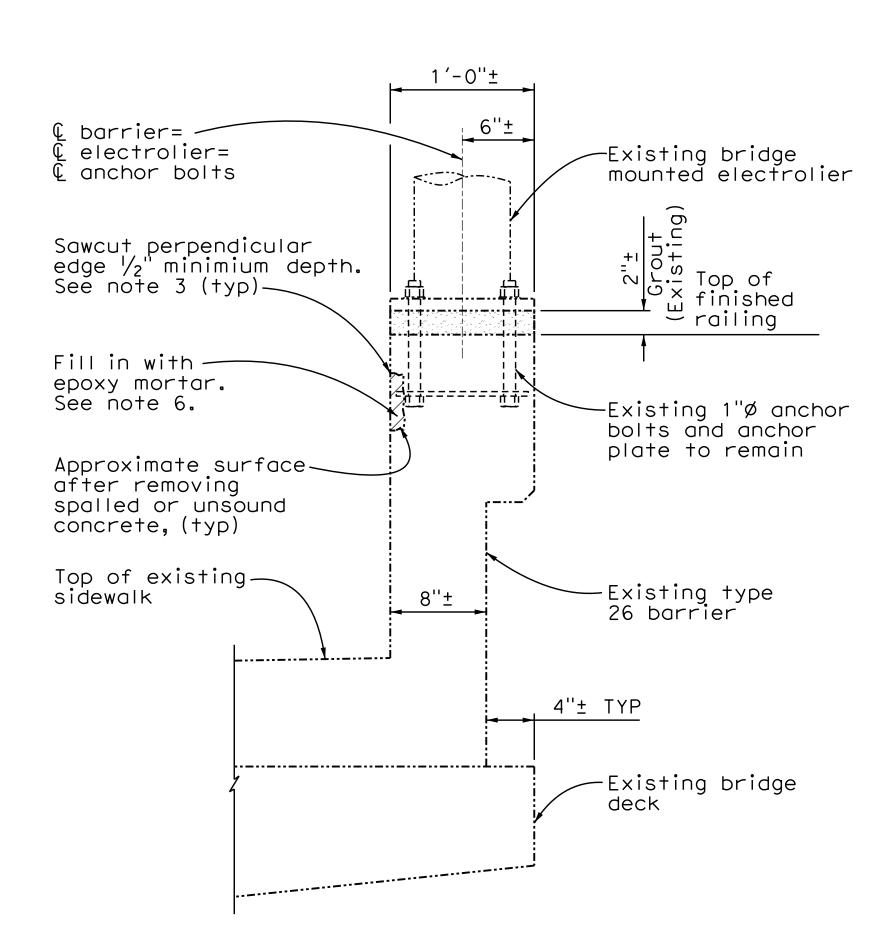
NO SCALE

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

TYPICAL LIMITS OF DECK WORK

TYPE 26 BARRIER

NO SCALE



BARRIER REPAIR DETAIL

11/2"=1'-0"

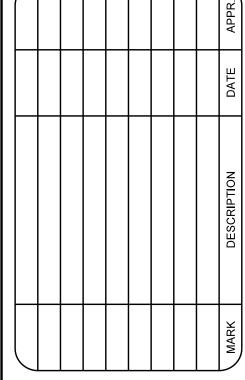
DECK REPAIR NOTES:

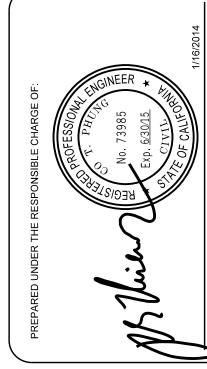
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.
- The sawcut depth shall not exceed $\frac{3}{4}$ " or the concrete cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.
- Rapid setting concrete repairs shall conform to the sections entitled "Patches," "General Provisions Applicable to All Patches," and "Rapid Setting Concrete Patches in Deck Surfaces" of the special provisions.

BARRIER REPAIR NOTES:

- Existing reinforcement shall be protected in place during unsound concrete removal operations.
- It is the responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- 3. The saw cut depth shall not exceed $\frac{1}{2}$ " or the concrete cover to the outer layer of reinforcement, whichever is less.
- Remove unsound concrete to expose sound, hard concrete substrate.
- Replace original concrete surface with epoxy mortar.
- Epoxy mortar repairs shall conform to the sections entitled "Patches," "General Provisions Applicable to All Patches," and "Vertical and Overhead Un-Formed Patches" of the special provisions.







SOUNTY	C. PHUNG	g	
/ORKS	DRAWN BY:	СНЕСКЕD ВҮ:	
	CP/KN	E. FRONDOSO	
	DRAWING CODE:		
OJECTS	FILE NAME:		
	PLOT DATE:	SCALE:	

SHEET REFERENCE NUMBER

MISCELLANEOUS

SHEET 3 OF 26

DETAILS

NO AS BUILT CHANGES