

AFFILIATED AGENCIES

Orange County Transit District

Local Transportation Authority

Service Authority for Freeway Emergencies

Consolidated Transporation Service Agency

Congestion Management Agency February 21, 2024

SUBJECT: Invitation for Bids (IFB) 4-2092

"Bus Hoist Replacement at Irvine Sand Canyon Bus Base"

Gentlemen/Ladies:

This letter and its attachment comprise **Addendum No. 2** to the above captioned Invitation for Bids issued by the Orange County Transportation Authority ("Authority").

- 1. Bidders are advised that the pre-bid conference registration sheets are presented as Attachment A to this Addendum No. 2.
- 2. Bidders are advised that an error existed on the presented slide show, slide no. 28 that originally stated, "Contractor shall obtain and pay for all City of Irvine building permits, business licenses, and inspections required by the City of Irvine to complete the project work." This information is incorrect as this project does not require acquisition of permits from the City of Irvine. The corrected slide is presented as Attachment B to this Addendum No. 2.
- 3. Bidders are advised that the record drawings submitted with the installation of the existing bus hoist are presented as Attachment C to this Addendum No. 2. Bidders are advised that the attached record drawings (from previous IFB 9-0212) are schematic level. Authority is not responsible for the accuracy of these drawings. Bidder is encouraged to verify the accuracy of all elements.
- 4. Bidders are advised that the Engineer Cost Estimate is presented as Attachment D to this Addendum No. 2.

Bidders are reminded to acknowledge receipt of this **Addendum No. 2** in their "Bid Form". Bidders are advised that all changes addressed in this **Addendum No. 2** shall be incorporated into the final Agreement.

Questions regarding this Addendum No. 2 should be directed to the undersigned at 714-560-5443 or adelgado@octa.net.

Sincerely,

Aaron Delgado

Associate Contract Administrator

Contracts Administration and Materials Management

Attachments:

Attachment A: Pre-Bid Conference Registration Sheets

Attachment B: Pre-Bid Presentation Slide No. 28

Attachment C: Record Drawings

Attachment D: Engineer Cost Estimate



	IFB No.: 4-2092	Date: February 20, 2024
	Title: Bus Hoist Replacement at Irvine Sand Canyon Bus Base	
1.	Company Name: Pacific Life.	
	Attendee: Goodow Risset	
	Address: 61 W. Mountain	
	City, State Zip: Passalewa, CA 91103	
	Phone Number: 1626) 777 4100 Registered on CAMM NET?	⊠ Yes □ No
	Prime Sub	
	E-Mail Address: 30 (Com @ paci ⁣ list. com	
2.	Company Name: PG CINTING Services	·
	Attendee: Rudy. Garaia	
	Address: PO Box 695	
	City, State Zip: Lake ElsiLeve, CA 92530	
	Phone Number: 1562 441-9729 Registered on CAMM NET?	☐ Yes ☐ No
	Prime Sub 🗵	
	E-Mail Address: Proy. Garrie @ Paciting . Con	<u> </u>
-		
3.	Company Namex SOUTH WEST LIFT & EQUIP ~~	
	Attendee: William GEORGIA	
	Address: 215 E VANGY BUDD	
	City, State Zip: SAN BORNANDINO CA. 90248	3
	Phone Number: 1909 1501-9078 Registered on CAMM NET?	Yes No
	Prime Sub	
	E-Mail Address: BIN @ SOUTH WEST LIFT. CO	



	IFB NO.: 4-2092	Date. February 20, 2024
	Title: Bus Hoist Replacement at Irvine Sand Canyon Bus Base	
1.	Company Name: (A) CA FINITION ("IT III") Attendee: (A) CAN ARETO Address: (COM DINCAN MAY City, State Zip: (A) 3308 Phone Number: (559) 393-571(C Registered on CAMM NET? Prime, Sub E-Mail Address: (A) CLANS an Automotive - Company Name - C	
	L-Ividii Address. The Square Land Control Land	
2.	Company Name: CLAWSON AUTOMOTIVE	
	Attendee: ()Im ('s Am Soal	
	Address: ICCO DUNCAN MA	
	City, State Zip: SALGESFTELD CA 93308	
	Phone Number: 1661 201-7655 Registered on CAMM NET?	☐ Yes ☐ No
	Prime 🗵 Sub 🗌	
	E-Mail Address: DENCE BENNICULIFT. Com	
	C-Mail Addiess. S227 S S	
3.	Company Name:	
	Attendee:	
	Address:	
	City, State Zip:	Lles
	Phone Number: Registered on CAMM NET?	Yes No
	Prime Sub	
	E-Mail Address:	



	IFB No.: 4-2092		Date: February 20, 2024
	Title: Bus Hoist Replacement at Irvine Sand Ca	anyon Bus Base	
1.	Company Name: ABAJIAN ENTERPRISE	DBA SOCAL REMOVAL	
	Attendee: ANDRE ABAJIAN		
	Address: 1640 E EDINGER AVE STE C		_
	City, State Zip: SANTA ANA, CALIFORNIA 927	705.	
	Phone Number: <u>(949) 446-0000</u>	Registered on CAMM NET?	☑ Yes ☐ No
	Prime ☐ Sub ☑		
	E-Mail Address: ANDRE@SOCALREMOVAL.C	OM	
2.	Company Name:		
	Attendee:		
	Address:		
	City, State Zip:		
	Phone Number: ()	Registered on CAMM NET?	☐ Yes ☐ No
	Prime Sub		
	E-Mail Address:		
3.	Company Name:		
	Attendee:		
	Address:		
	City, State Zip:		
	Phone Number: _()	Registered on CAMM NET?	☐ Yes ☐ No
	Prime Sub		
	E-Mail Address:		



IFB No.: 4-2092 Date: February 20, 2024

Title: Bus Hoist Replacement at Irvine Sand Canyon Bus Base

Company Name: OMER OSA -1. Thomas City, State Zip: _______oraville Phone Number: (470) 275-5919 Registered on CAMM NET? Yes Prime Sub E-Mail Address: t. boutwell@omerliftcom Company Name: 2. Attendee: _____ Address: City, State Zip: Phone Number: Yes Registered on CAMM NET? Yes □ No Prime Sub E-Mail Address: 3. Company Name: Attendee: _____ Address: City, State Zip: ______ Phone Number: () Registered on CAMM NET? Yes Prime Sub E-Mail Address:

Date: February 20, 2024



IFB No.: 4-2092

	Title: Bus Hoist Replacement at Irvine Sand Canyon Bus Base
1.	Company Name: Loghmani & Associates Design Group DBA L.A. Design Group - WLA
	Attendee: Mohsen Loghmani
	Address: 8640 Gulana Ave. Unit J3007
	City, State Zip: Playa del Rey, CA 90293
	Phone Number: (310) 497 - 7318 Registered on CAMM NET? X Yes No
	Prime X Sub
	E-Mail Address:mohsen@la-designgroup.com
2.	Company Name: Loghmani & Associates Design Group DBA L.A. Design Group - WLA
	Attendee: Matt Loghmani
	Address: 8640 Gulana Ave. Unit J3007
	City, State Zip: Playa del Rey, CA 90293
	Phone Number: (424) 222 - 8121 Registered on CAMM NET? X Yes No
	Prime X Sub
	E-Mail Address: matt@la-designgroup.com
3.	Company Name:
	Attendee:
	Address:
	City, State Zip:
	Phone Number: _() Registered on CAMM NET?
	Prime Sub
	E-Mail Address:

- Contractor shall include all premium costs to complete the work.
- The OCTA Irvine Sand Canyon Bus Base operates 24 hours a day, 7 days week, and will remain operational during the project work of this project.
- Normal work time window at the project site is from 7.00 AM to 4.00 PM on weekdays (Monday through Friday).

LIST OF DRAWINGS

By this reference, the following drawings are incorporated in this Addendum No. 2:

Sheet	<u>Description</u>	Number of
Identification		Sheets
G-1	Cover Sheet & Drawing Index	1
G-2	Site Plan & General Notes	1
C-100	Partial Civil Plan	1
A-100	Demolition Plan	1
A-200	Bus Lift Floor Plan & Sections	1
S-100	General Notes	1
S-200	Bus Lift Floor Plan	1
S-300	Bus Lift Sections & Details	1
E-100	Bus Lift Electrical Plan	1

ORANGE COUNTY TRANSPORTATION AUTHORITY



IFB 4-2092 ATTACHMENT C

ADDENDUM NO. 2

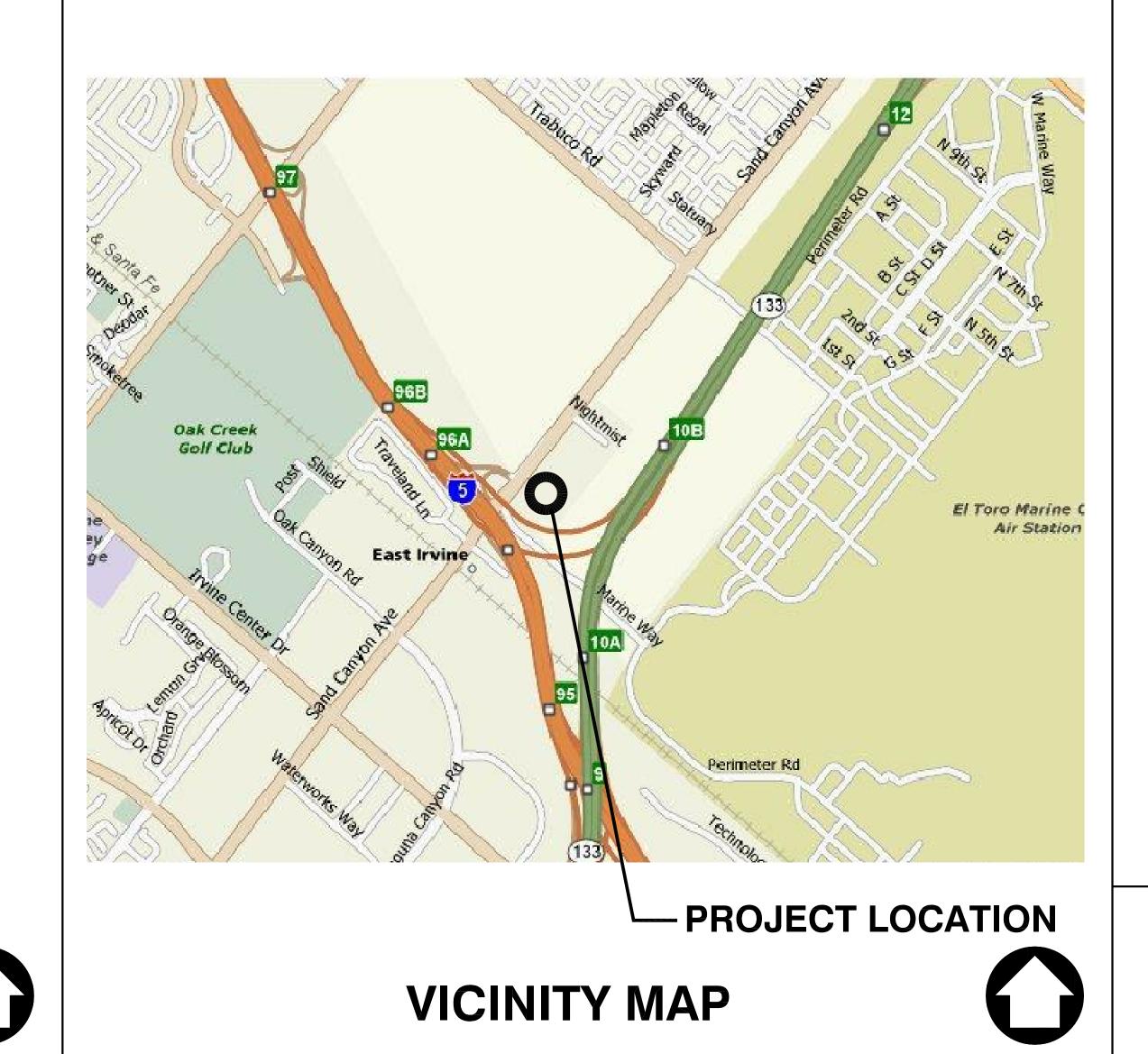
IRVINE BUS WASH & STEAM CLEAN FACILITY 14736 SAND CANYON AVE, IRVINE, CA 92618

IRVINE BUS LIFT PROJECT

PREVIOUS IFB NO: 9-0212

PLACENTIA LINDA PROJECT LOCATION—

LOCATION MAP



DRAWING INDEX

GENERAL

COVER SHEET & DRAWING INDEX SITE PLAN & GENERAL NOTES

C I V I L

C-100 PARTIAL CIVIL PLAN

ARCHITECTURAL

DEMOLITION PLAN

BUS LIFT FLOOR PLAN & SECTIONS

STRUCTURAL

BUS LIFT FLOOR PLAN BUS LIFE SECTIONS & DETAILS

ELECTRICAL

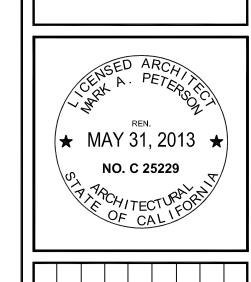
BUS LIFT ELECTRICAL PLAN

LIFT EQUIPMENT ANCHORAGE DESIGN AND DETAIL WILL BE DEFERRED APPROVAL.

CODE ANALYSIS

OCCUPANCY GROUP: F, PER CBC 2007, CHAPTER 3

CONSTRUCTION TYPE: 3, PER CBC 2007 CHAPTER 6



50% SUBMITTAL	95% SUBMITTAL	ADDENDUM	RECORD DRAWINGS			REVISIONS
ВН	ВН	ВН				ВУ
12-5-08 BH	1-5-09	3 3-17-09 BH	4 11-13-11			DATE
-	2	3	4			MARK DATE

JOB # 4012924-0012 DATE 3-17-09 **G-1**

1 OF 9

14736 Sand Canyon Ave Irvine, CA 92618 714/560/OCTA



IFB 4-2092 ADDENDUM NO. 2 ATTACHMENT C

- **ABBREVIATIONS** 57. ALL WORK SPECIFIED IN THE KEY NOTES APPLIES TO THE GENERAL AREA INDICATED,
- COLD WATER & VENT **EXISTING** SO THAT A CALL-OUT ON A DRAWING MAY ALSO AFFECT OTHER DRAWINGS FIRE WATER GAS LINE GRADE BREAK INDIRECT WATER MANHOLE

PROTECT IN PLACE

VENT

WATER

- 58. CONTRACTOR SHALL TAKE ANY PRECAUTIONS NECESSARY TO PREVENT OCTA STAFF AND BUSES ENTERING CONSTRUCTION EXCAVATION DURING DEMOLITION AND CONSTRUCTION. SIGNS SHALL BE POSTED TO NOTIFY WORKERS OF EXCAVATION. PROVIDE BARRIERS AROUND GENERAL AREA WHILE EXCAVATION WORK IS IN
- 59. CONTRACTOR WILL BE REQUIRED TO COVER ALL EQUIPMENT, TOOLS, MATERIAL, AND ACCESSORIES ON THE FLOOR BELOW TO PREVENT DAMAGE AND DUST.
- 60. PROJECT ENGINEER WILL SCHEDULE A MEETING BETWEEN THE CONTRACTOR AND THE FACILITY MAINTENANCE STAFF BEFORE WORK BEGINS.
- 61. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY DEACTIVATION OR RELOCATION OF EXISTING SYSTEMS, EQUIPMENT, AND SERVICES REQUIRED TO FACILITATE THE SCOPE OF WORK. KEEP DEACTIVATION PERIODS TO A MINIMUM COORDINATE DEACTIVATION PERIODS WITH OCTA TO KEEP SYSTEMS IN SERVICE.
- THE ARCHITECT/ENGINEER'S REVIEW AND APPROVAL OF SHOP DRAWINGS AND SUBMITTALSIS FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT/ENGINEER'S APPROVAL OF OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
- 31. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE OCTA FACILITY MANAGER DAILY, BEFORE STARTING CONSTRUCTION WORK ON SITE
- 32. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE WORK OF SUB-CONTRACTORS THE GENERAL CONTRACTOR SHALL REPLACE OR REMEDY ANY FAULTY OR IMPROPER WORK, MATERIAL, OR EQUIPMENT INSTALLED BY IT OR ITS SUB-CONTRACTORS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DAMAGE TO ADJACENT STRUCTURE. EQUIPMENT, UTILITIES, OR MATERIALS CAUSED BY ITS WORK.
- 33. CONTRACTOR SHALL COMPLY WITH ALL CODES PERTAINING TO INDUSTRIAL SAFETY, AND SHALL COMPLY WITH ALL RULES, REGULATIONS, AND ORDINANCES OF THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL AND OCCUPATIONAL SAFETY (OSHA)
- 34. REFERENCING OF THE DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT APPLICATION OF ANY DRAWING OR DETAIL
- 35. THE STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING, BRACING, SCAFFOLDING, AND OTHER SUPPORTS TILL STRUCTURE, EQUIPMENT, OR ACCESSORIES ARE FINALLY FIXED IN PLACE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BACKING, SUPPORTS, SLEEVES, FRAMING FOR SUPPORTING STRUCTURE, EQUIPMENT, AND ACCESSORIES DURING INSTALLATION.
- 36. ALL TRADES AND SUB-CONTRACTORS SHALL DO THEIR OWN CUTTING, FITTING, AND PATCHING, ETC. TO MAKE THE WORK OF ALL TRADES COME TOGETHER PROPERLY AND FIT TO RECEIVE THE WORK OF OTHER TRADES.
- 37. THE CONTRACTOR SHALL NOT BREAK CONSTRUCTION DOCUMENTS (DRAWINGS) FOR TRADE BIDDING. THE CONTRACTOR DOES SO AT ITS OWN RISK AND RESPONSIBILITY, AND THE ARCHITECT/ ENGINEER TAKES NO RESPONSIBILITY IF IT DOES SO.
- 38. CONSTRUCTION HOURS WILL BE FROM 7.00AM TO 3.30PM.
- 39. ALL EXISTING FACILITIES AND UTILITIES DIS-CONNECTED BY CONTRACTOR DURING ITS WORK SHALL BE RE-CONNECTED AT 3.30PM FOR OCTA TO CONTINUE OPERATIONS NORMALLY AFTER HOURS.
- 40. ALL MATERIALS AND EQUIPMENT USED IN THIS PROJECT SHALL BE NEW
- 41. CONTRACTOR SHALL FULLY CO-OPERATE WITH OCTA BUS AND FACILITY MAINTENANCE STAFF TO COMPLETE THE WORK. IF REQUIRED BY OCTA STAFF PROVIDE TEMPORARY POWER, UTILITIES, OR EQUIPMENT DURING TEMPORARY DISCONNECTION OF OCTA FACILITIES, UTILITIES, OR EQUIPMENT OR BREAKDOWN OF OCTA FACILITIES, EQUPIMENT OR UTILITIES DUE TO CONTRACTOR'S WORK
- 42. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, FENCES, ENCLOSURES, AND WARNING SIGNS TO WARN OCTA WORKERS OF CONSTRUCTION WORK IN PROGRESS DURING WELDING, CONTRACTOR WILL BE REQUIRED TO PROVIDE ENCLOSURE AROUND WORK AREA TO PROTECT OCTA STAFF FROM WELDING OPERATIONS AND GLARE.
- 43. OCTA PROPERTIES ARE A CLASS I DIVISION II FACILITIES. CONTRACTOR SHALL TAKE ALL PRECAUTION DURING CONSTRUCTION AND WELDING TO PREVENT ACCIDENTS AT THE WORK SITE DUE TO PRESENCE OF FLAMMABLE GASES OR LIQUIDS ON THE SITE.
- 44. CONTRACTOR SHALL INFORM OCTA PROJECT MANAGER 72 HOURS BEFORE STARTING CONSTRUCTION WORK ON SITE
- 45. CONSTRUCTION WORK UNDER THIS CONTRACT SHALL BE DONE SO THAT EXISTING BUS MAINTENACE AND REPAIR WORK AT THE OCTA CONSTRUCTION SITE (BASE) SHALL REMAIN UNINTERRUPTED, ONGOING, AND IN FULL OPERATION DURING CONSTRUCTION. CONTRACTOR SHALL ARRANGE HIS WORK TO OFFER LEAST INTERFERENCE TO OCTA'S CONTINUED DAILY WORK OF BUS MAINTENANCE AND REPAIR.
- 46. DUST CONTROL WILL BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL ENCLOSE AREA OF WORK (BUS BAY) TO PREVENT DUST SPREAD TO ADJACENT BUS BAYS, BUSES, AND EQUIPMENT.
- 47. CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE WORK AREA AND PROTECT THEM FROM DAMAGE. IF DAMAGED BY CONSTRUCTION, CONTRACTOR WILL BE REQUIRED TO REPAIR DAMGED UTILITY IMMEDIATELY SO THAT OCTA BUS REPAIR WORK IS NOT INTERRUPTED. PROVIDE TEMPORAY UTILITIES DURING BREAKDOWN PERIOD.
- 48. CONTRACTOR IS REQUIRED TO CERTIFY THE SAFETY OF THE SYSTEM INSTALLED, AND TO MEET ALL REQUIREMENTS OF THE WORKERS SAFETY CODES, STANDARDS, AND REGULATIONS OF THE FEDERAL AND STATE GOVERNMENT.
- 49. CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REINSTALL ALL EQUIPMENT, HVAC DUCTS AND SUPPORTS, OIL, GAS, WATER LINES, LNG VENT LINES, AND OTHER UTILITIES, APPURTENANCES AND ACCESSORIES TO INSTALL THE BUS LIFT IMPROVEMENTS IN PLACE. CONTRACTOR WILL BE REQUIRED TO IMPROVE ALL SURFACES TO MATCH ADJACENT SURFACE IN PAINT AND MATERIAL WHERE RELOCATION HAS AFFECTED THE SUPPORTING FOR ADJACENT STRUCTURE.
- 50. ALL SHOP AND FIELD WELDING SHALL BE DONE BY A CERTIFIED WELDER IN THE PRESENCE OF A OCTA CONTRACTED TESTING AND WELDING INSPECTOR
- 51. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, AND INSPECTIONS FROM THE CITIES TO COMPLETE THE WORK
- 52. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND SECURITY OF THE PROPERTY AND ALL WORKERS ON SITE. CONTRACTOR SHALL PROVIDE ALL SAFETY EQUIPMENT FOR ITS WORKERS
- 53. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ARCHITECT HARMLESS FROM ANY LIABILITIES REAL OR ALLEGED IN CONNECTION WITH PERFORMANCE OF THE WORK ON THIS PROJECT
- 54. THE CONTRACTOR IS RESPONSIBLE FOR MAKING AN EXACT DETERMINATION AS TO THE LOCATION OF ALL EXISTING UTILITIES. WORK SHALL NOT BEGIN UNTIL THIS DETERMINATION HAS BEEN MADE. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY ITS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 55. SCREENS, BARRICADES, OR FENCES MADE OF MATERIAL WHICH PRECLUDE HUMAN CLIMBING SHALL BE PROVIDED AROUND WORK AREA.

GENERAL NOTES

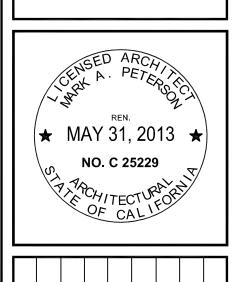
IN THE BID.

- 1. THE WORK OF THIS CONTRACT SHALL BE AS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, AND CONTRACT DOCUMENTS.
- 2. ALL WORK SHALL COMPLY WITH LATEST EDITION OF THE RESPECTIVE CITY BUILDING
- 3. INSPECTION WORK SHALL CONFORM TO THE REQUIREMENTS OF PARTS 1 & 2 OF TITLE 24, CCR.
- 4. IT IS MANDATORY THAT CONTRACTORS VISIT THE SITE BEFORE SUBMITTING A BID TO GET FAMILIAR WITH THE SITE, AND VERIFY EXISTING CONDITIONS ON SITE TO INCLUDE
 - 5. DEMOLITION NECESSARY FOR COMPLETION OF THE CONSTRUCTION SHALL BE A PART OF THIS PROJECT. OWNER HAS THE RIGHT OF FIRST REFUSAL FOR SALVAGE ON ALL ITEMS DEMOLISHED ON SITE.
- 6. PLANS HAVE BEEN PREPARED FROM VISUAL AND ACTUAL MEASUREMENTS OF ACCESSIBLE WORK. ALL CONTRACTORS SHALL VERIFY ALL GIVEN CONDITIONS, ELEVATIONS, DIMENSIONS, ETC. AT JOB SITE, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS, AS NOTED OR DETAILED. OCTA AND/OR ARCHITECT CANNOT GUARANTEE THE EXACT EXISTING CONSTRUCTION CONDITIONS.
- 7. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED AT THE JOB SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS BEFORE PREPARING AND SUBMITTING SHOP DRAWINGS.
- 9. ALL WORK AND EQUIPMENT SHALL BE NEW AND PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED EXISTING
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING ITEMS RESULTING FROM HIS CONSTRUCTION. ALL DISTURBED OR DAMAGED AREAS SHALL BE REPAIRED AND/OR PATCHED TO MATCH ADJACENT MATERIALS AT CONTRACTOR'S EXPENSE.
- 11. ALL SHOP OR FIELD WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- 12. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY A WRITTEN ADDENDUM OR A CHANGE ORDER APPROVED BY OWNER, ARCHITECT.
- 13. ITEMS MARKED N.I.C. ON THE DRAWINGS ARE NOT PART OF THIS CONTRACT.
- 14. CARE SHALL BE EXERCISED TO PREVENT DAMAGE DUE TO CARELESSNESS OR VANDALISM. ALL MATERIALS AND EQUIPMENT SHALL BE SECURED AFTER WORKING AT ANY TIME. THE CONTRACTOR SHALL PROVIDE FOR HIS OWN SECURITY OF HIS STORAGE ENCLOSURES AS NECESSARY. DESIGNATED LAY-DOWN OR STORAGE ENCLOSURE AREA SHALL BE APPROVED BY THE OCTA FACILITY MAINTENANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO FENCE AND SECURE HIS STORAGE AND EQUIPMENT AT ALL TIMES. OCTA IS NOT RESPONSIBLE FOR CONTRACTOR'S MATERIAL OR EQUIPMENT LOSS ON OCTA PROPERTY
- 15. FENCES, BARRICADES, ENCLOSURES, WARNING SIGNS, ETC. SHALL BE PROVIDED AROUND THE LOCAL WORK AREA BY THE CONTRACTOR TO KEEP THE PUBLIC OUT OF CONTRACTOR'S WORK AREA AND WARN THE PUBLIC OF OVERHEAD WORK.
- 16. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER THROUGH THE OCTA PROJECT MANAGER ANY ERROR, INCONSISTENCY OR OMISSION IT MAY DISCOVER. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY ERROR, INCONSISTENCY OR OMISSION AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE MEANS OF CORRECTING THE ERROR, INCONSISTENCY OR OMISSION SHALL FIRST BE APPROVED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE ERROR, INCONSISTENCY OR OMISSION AT NO COST TO OCTA AFTER START OF CONSTRUCTION.
- 17. NO OMISSION OF THE WORK SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE
- 18. NO SUBSTITUTION OF THE WORK SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER.
- 19. ALL WORKMANSHIP SHALL BE PERFORMED BY SKILLED MECHANICS USING THE BEST STANDARD PRACTICES OF THE TRADE AND CONSTRUCTION INDUSTRY
- 20. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE SIMILAR TO THAT INDICATED OR NOTED FOR SIMILAR CONDITIONS OF CONSTRUCTION ON THE PROJECT. REFERENCES OF NOTES AND DETAILS TO SPECIFIC CONDITIONS AND LOCATIONS SHALL NOT LIMIT THEIR APPLICABILITY.
- 21. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN OR RELATED THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND FACILITY STAFF AND THE PUBLIC ARE PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND CAL. OSHA.
- 22. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS. THE ARCHITECT/ENGINEER'S REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS, UNLESS HE HAS IN WRITING INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATIONS AT THE TIME OF SUBMISSION, AND HAS RECEIVED CLARIFICATIONS FROM THE ARCHITECT/ENGINEER; NOR SHALL IT RELIEVE HIM FROM RESPONSIBILTY FOR ERRORS IN THE SHOP DRAWINGS.
- THE SCHEDULE OF THE PROJECT IS CRITICAL. EACH SUB-CONTRACTOR SHALL START HIS WORK PER THE SCHEDULE AND PURSUE IT DILIGENTLY AND COMPLETE IT IN ACCORDANCE WITH THE GENERAL CONTRACTOR'S SCHEDULE OF CONSTRUCTION THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF THE WORK OF ALL ITS SUB-CONTRACTORS.
- 24. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES WHETHER SHOWN ON THE DRAWINGS OR NOT, AND TO PROTECT OR RE-LOCATE THEM AS NECESSARY. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES DAMAGED BY ITS OPERATIONS OR CONSTRUCTION WORK
- 25. THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED. IF THEY DIFFER FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER THROUGH A REQUEST FOR INFORMATION SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
- 26. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER, WATER, AND TOILET FACILITIES FOR THE USE OF ITS WORKERS
- 27. APPROVED PLANS AND CONSTRUCTION DOCUMENTS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY THE CONTRACTOR OR ITS WORKERS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF COMPLETE PLANS WITH REVISIONS, ADDENDA, AND APPROVED CHANGE ORDERS AT THE WORK-SITE.
- 28. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY FROM THE WORK SITE. ALL CONSTRUCTION AND ADJACENT WORK AREAS SHALL BE CLEANED AT THE END OF WORK DAY
- 29. ALL CONSTRUCTION WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF ANAHEIM BUILDING CODES, INCLUDING AMENDMENTS, AND SPECIAL ORDINANCES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

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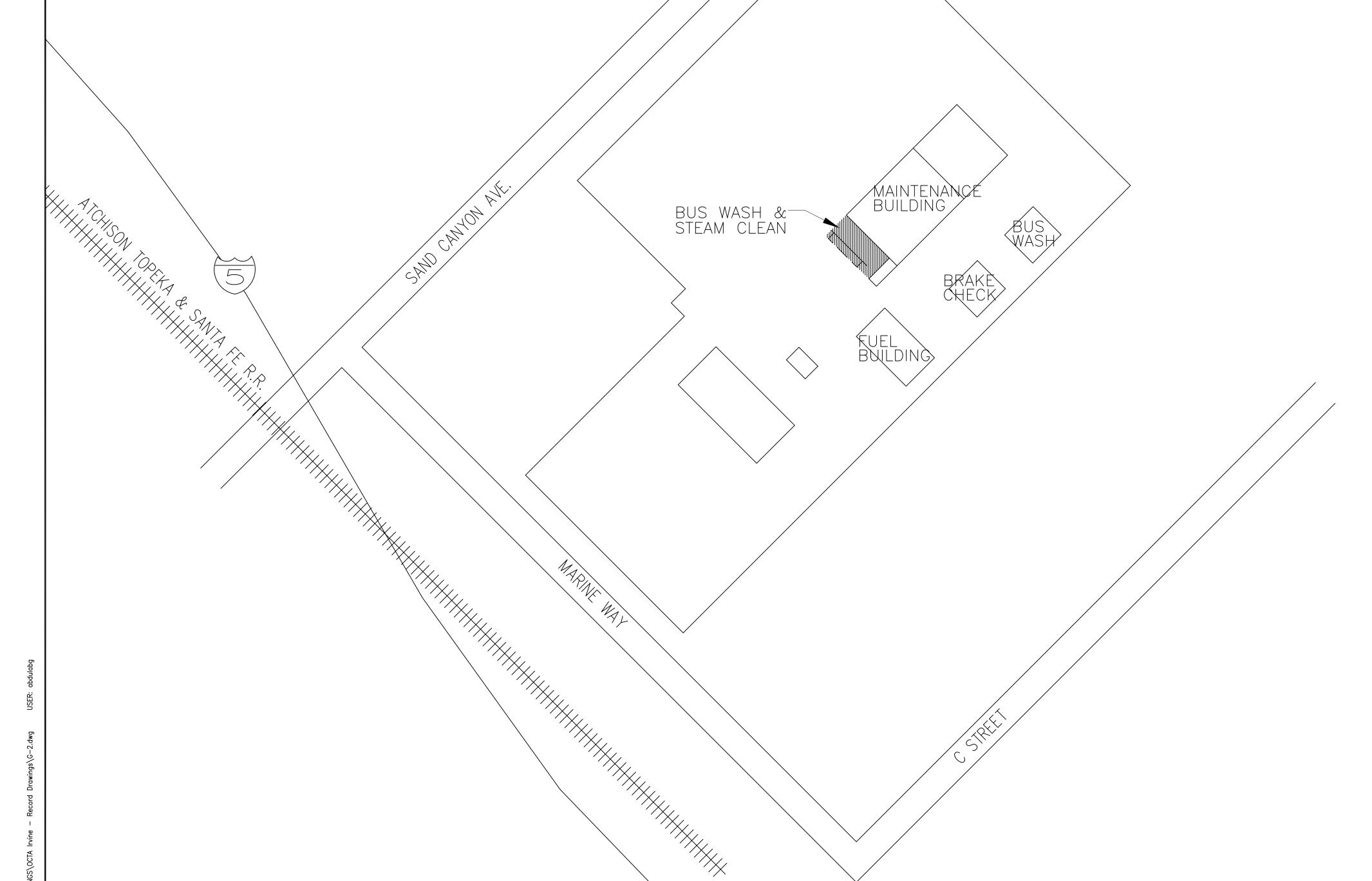
JOB # 4012924-0012 ESIGN RN ^{DRAWN} BH 3-17-09

AS NOTED

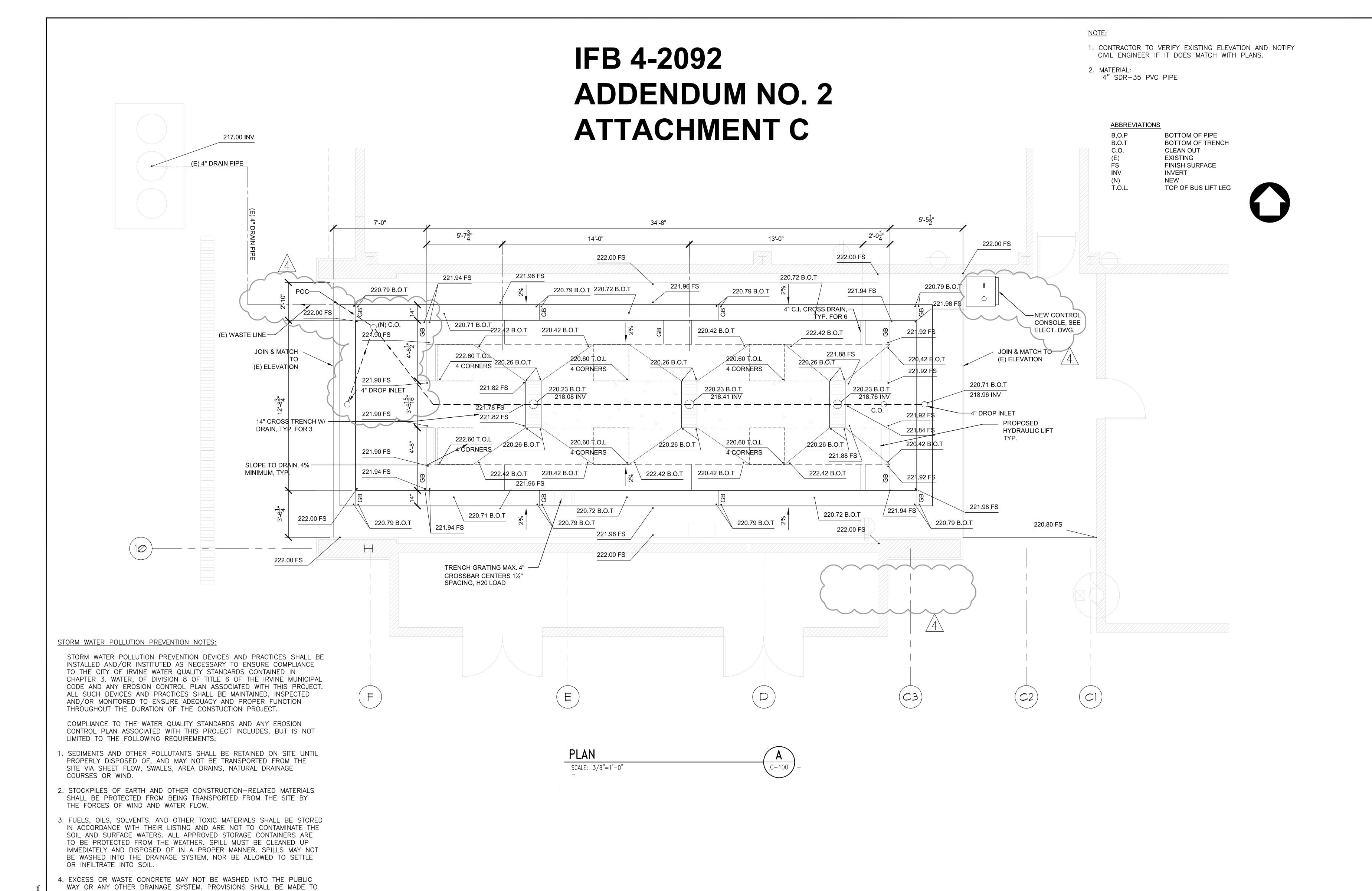
14/560/OCTA

G-2 2 OF 9 14736 Sand Canyon Ave Irvine, CA 92618

OCTA







RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF

5. TRASH AND CONSTRUCTION SOLID WASTES SHALL BE DEPOSITED INTO A

COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND

6. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE

MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITS SHALL BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR

STABILIZED TO INHIBIT EROSION BY WIND AND WATER.

SITE BY VEHICULAR TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS

7. ANY SLOPES WITH DISTURBED SOILS OR REMOVED VEGETATION SHALL BE

8. STORM WATER POLLUTION PREVENTION DEVICES AND/OR PRACTICES SHALL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES TO

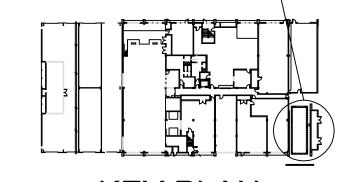
AS SOLID WASTES.

DISPERSAL BY WIND.

OTHER MEANS.

ENSURE EFFECTIVENESS.

STEAM CLEAN AREA

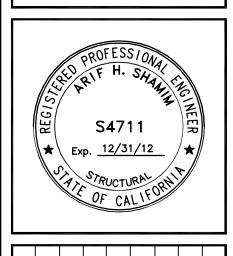


KEY PLAN

STV Incorporated

ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST 7th STREET., SUITE 3150
LOS ANGELES, CA. 90017-2577





12–5–08 BH 50% SUBMITTAL 1–5–09 BH 95% SUBMITTAL 3–17–09 BH ADDENDUM 11–13–11 RECORD DRAWINGS 11–13–10 R.N. CHANGE CAST IRON PIPE TO PVC C DATE BY REVISIONS
12-5-08 1-5-09 3-17-09 11-13-11 11-13-10 DATE
12-5-08 1-5-09 3-17-09 11-13-11 11-13-10
- 2 k 4 MARK

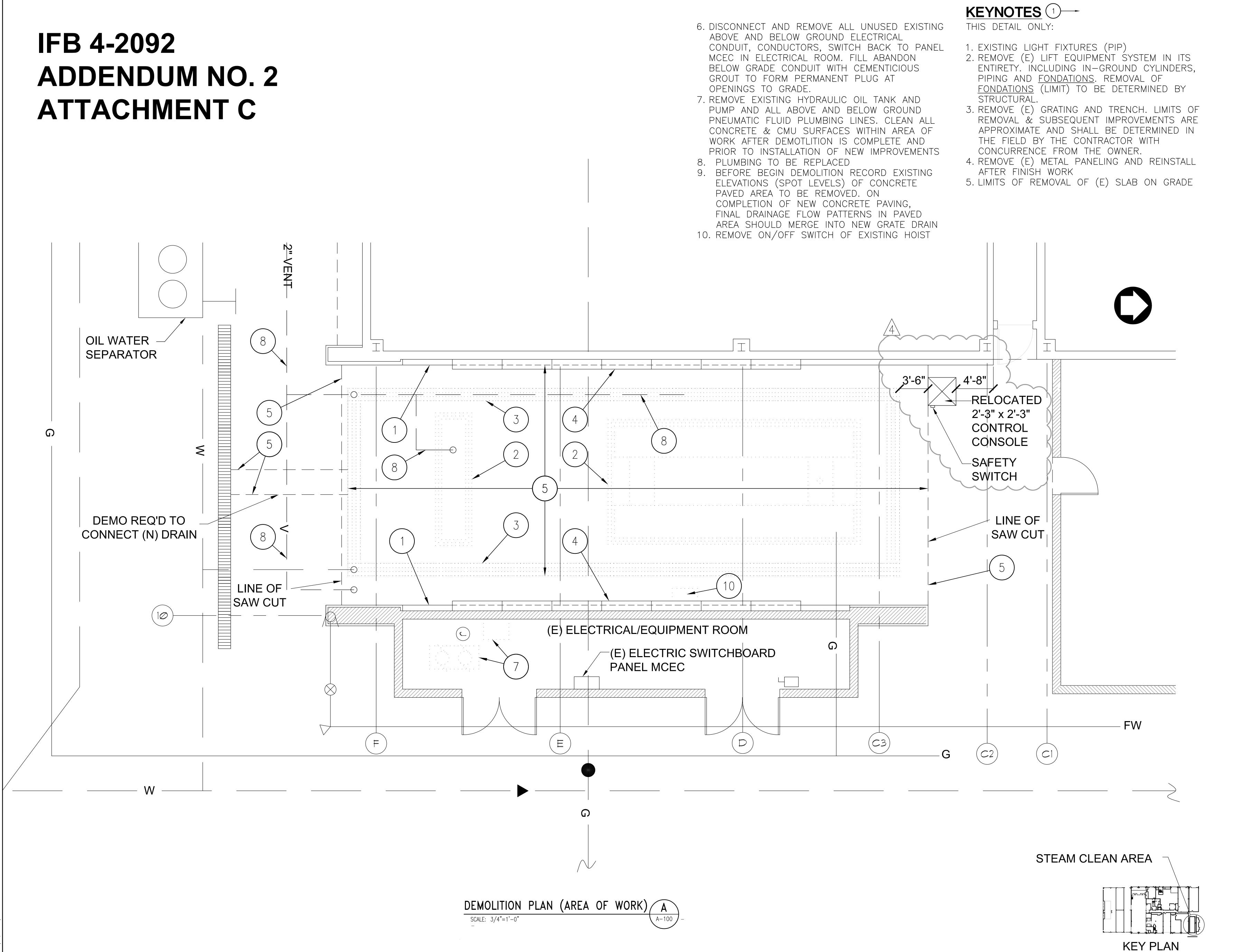
IRVINE

JOB #	4012924-0012
DESIGN	RN
DRAWN	BH
CHECKED	RN
DATE	3-17-09
SCALE	AS NOTED
SHEET	C-100

3 OF 9

14736 Sand Canyon Ave Irvine, CA 92618 714/560/0CTA

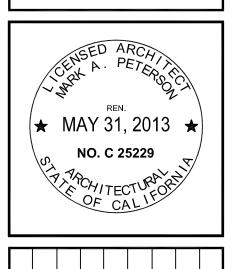




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STV ENGINEERS/AR 1055 WES LOS ANGE



1 12-5-08 BH 50% SUBMITTAL
3 3-17-09 BH ADDENDUM
4 11-13-11 RECORD DRAWINGS

MARK DATE BY REVISIONS

IRVINE OLITION PLAN

IRVII

JOB # 4012924-0012
DESIGN RN
DRAWN BH
CHECKED RN
DATE 3-17-09

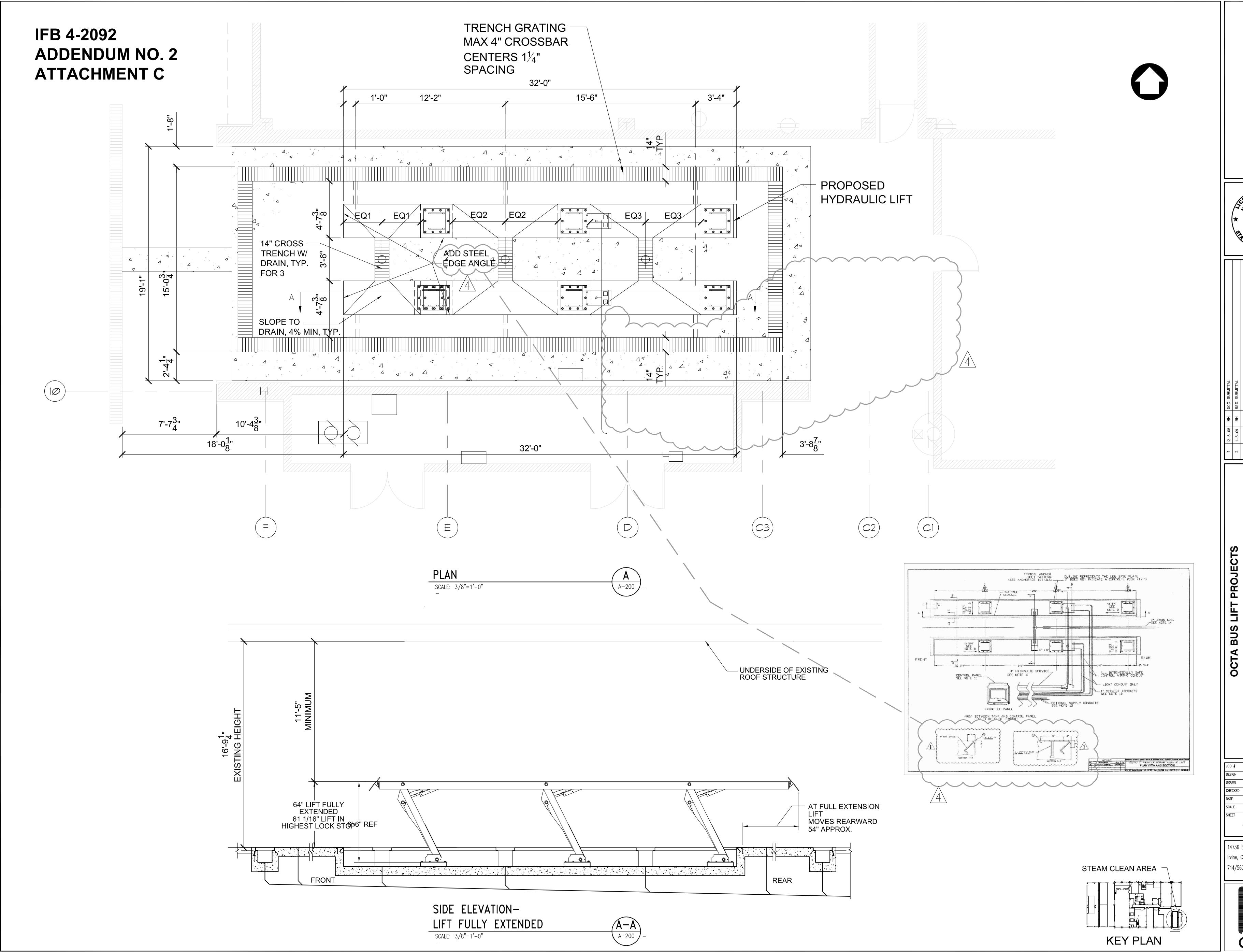
AS NOTED

A-100

4 OF 9

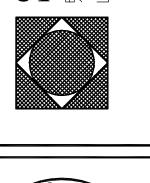
1rvine, CA 92618
714/560/0CTA

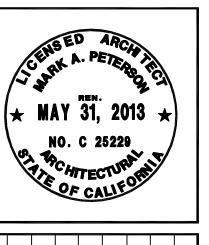


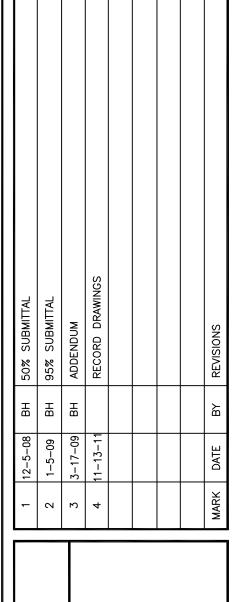


STV Incorporated

engineers/architects/planners/construction managers
1055 WEST 7th STREET, SUITE 3150
LOS ANGELES, CA. 90017-2577







IRVINE BUS LIFT FLOOR PLAN & SECTION

JOB # 4012924-0012

DESIGN RN

DRAWN BH

CHECKED RN

DATE 3-17-09

SCALE AS NOTED

SHEET A-200

14736 Sand Canyon Ave Irvine, CA 92618 714/560/OCTA



IFB 4-2092 ADDENDUM NO. 2 ATTACHMENT C

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19A OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
- 2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD"
- 3. CONCRETE MIXES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED ON SECTION 1905A OF THE CODE.
- 4. A. PROVIDE NORMAL WEIGHT CONCRETE (145 pcf), WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%, ATTAINING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS (f'c) AS FOLLOWS, UNLESS NOTED OTHERWISE:

SLABS ON GRADE RETAINING WALLS

4000 psi B. LIGHTWEIGHT AGGREGATE TO BE EXPANDED CLAY OR SHALE CONFORMING TO

4000 psi

- ASTM C-330 AND TITLE 24, 2-S603(d). AIR DRY UNIT WEIGHT SHALL NOT EXCEED 115 pcf.
- 6. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- 7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.

- 8. PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 1905A AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
- 9. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE
- 10. SUBMIT CONCRETE DESIGN MIX DATA FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE REQUIRED SIGNED BY AND BEARING THE SEAL OF A REGISTERED CIVIL ENGINEER TO THE ARCHITECT OR STRUCTURAL ENGINEER. BASE DESIGN MIX ON FIELD EXPERIENCE OR TRIAL MIXTURES AS STIPULATED IN CBC SECTION 1905A.3.
- 11. SUBMIT SHOP DRAWINGS TO ARCHITECT OR STRUCTURAL ENGINEER INDICATING LOCATIONS OF CONCRETE CONSTRUCTION JOINTS FOR REVIEW PRIOR TO PLACING CONCRETE. LOCATE JOINTS AT LOCATIONS TO MINIMIZE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.
- 12. SLUMP SHALL NOT EXCEED 4 INCHES.
- 13. DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES.
- 14. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN NEW CONCRETE BEFORE PLACING. LOCATE EXISTING REINFORCING USING NON-DESTRUCTIVE METHODS PRIOR TO CORING NEW HOLES IN EXISTING CONCRETE. DO NOT CUT ANY EXISTING REINFORCING WHICH MAY CONFLICT WITH NEW HOLES UNLESS SPECIFICALLY APPROVED THE ENGINEER. SLEEVES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS NOT BE SPACED CLOSER THAN A MINIMUM OF 6 X SLEEVE DIAMETER
- 15. CONDUITS LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. CONDUITS SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS AND SHALL NOT BE SPACED CLOSER THAN A MINIMUM OF 6 X CONDUIT DIAMETER. NO PIPES OF ANY SIZE SHALL BE EMBEDDED IN CONCRETE, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
- 16. PROVIDE KEYS IN CONSTRUCTION JOINTS UNLESS DETAILED OTHERWISE. THOROUGHLY CLEAN, REMOVE LAITANCE AND THOROUGHLY WET AND REMOVE STANDING WATER IN CONSTRUCTION JOINTS BEFORE PLACING NEW CONCRETE. AT VERTICAL JOINTS, SLUSH WITH A COAT OF NEAT CEMENT BEFORE PLACING NEW CONCRETE.
- 17. PERFORM CONCRETE WORK IN COMPLIANCE WITH ACI 301.
- 18. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT 9. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF (STRUCTURAL ENGINEER).
- 19. CONSOLIDATE CONCRETE IN PLACE USING A MECHANICAL VIBRATOR.
- 20. BEFORE PLACING CONCRETE SECURE REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND OTHER INSERTS IN POSITION TO PREVENT MOVEMENT.
- 21. ALL SLABS ON EARTH SHALL HAVE "QUICK-JOINT" INSTALLED TO PROVIDE APPROXIMATELY 20 FOOT SQUARES UNLESS DETAILED OTHERWISE ON THE PLANS.
- 22. WHERE CONCRETE POURS ARE STOPPED, THE JOINT SHALL BE FORMED PER TYPICAL CONSTRUCTION JOINT DETAIL.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 2. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
 - 2007 CALIFORNIA BUILDING CODE AND TITLE 24 C.C.R. AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE BUILDING AND SAFETY. AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ON SITE PRIOR TO PREPARING SHOP DRAWINGS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES
- 4. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. DETAILS AND SCHEDULES INDICATED AS "TYPICAL" MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMIN WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK. IF CONDITIONS ARE FOUND WHICH ARE NOT SPECIFICALLY DETAILED AND NO TYPICAL DETAIL OR SCHEDULE APPLIES, PROMPTLY NOTIFY ARCHITECT AND STRUCTURAL ENGINEER.
- 6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ITS OCCUPANTS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, THE INSTALLATION OF BARRIERS TO MINIMIZE EXCESSIVE NOISE. ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- 7. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.

8. SHOP DRAWINGS:

- A. REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO ARCHITECT (STRUCTURAL ENGINEER). REVIEW FOR COMPLETENESS AND COMPLIANCE WITH
- B. SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) AS INDICATED OR SPECIFIED FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT CONVEYED IN CONTRACT DOCUMENTS.
- C. SHOP DRAWINGS ARE NOT A PART OF CONTRACT DOCUMENTS. THEREFORE. ARCHITECT'S (STRUCTURAL ENGINEER'S) REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT. D. SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF
- COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR REVIEW PER PARAGRAPH ABOVE.
- F. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.
- F. MAINTAIN A COPY OF ALL SHOP DRAWINGS ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER) AT SITE DURING CONSTRUCTION PERIOD. OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE

FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS

- NOT ATTAINED DESIGN STRENGTH. 10. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: SIZE AND LOCATION OF ALL NEW PITS, SLOPES, CHANGE IN LEVEL, CHAMFERS,
- GROOVES, INSERTS, ETC.

DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

FOUNDATION

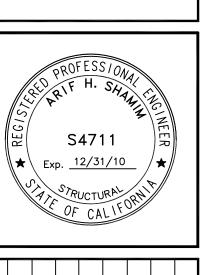
- 1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS IN GEOTECHNICAL REPORT PREPARED BY DIAZ, YOURMAN & ASSOC. DATED MARCH 6, 2009. PERFORM FOUNDATION WORK COMPLYING WITH REPORT. GEOTECHNICAL REPORT HEREBY BECOME PART OF THESE CONTRACT DOCUMENTS AND SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- 2. FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION: ALLOWABLE BEARING CONTINUOUS FOOTING CAPACITY (D+L+E) = 1,500 PSF

FOOTING SHALL BEAR ON ENGINEERED FILL MATERIAL AS INDICATED IN SOIL REPORT CONTINUOUS FOOTINGS SHOULD HAVE A WIDTH OF 3 FEET OR MORE. AS SPECIFIED PER THE RECOMMENDATIONS OF THE SOILS REPORT. MINIMUM DEPTH OF FOOTINGS BELOW FINAL GRADE SHALL BE 24".

- 3. ALL NEW FOOTINGS SHALL BEAR ON FIRM NATURAL SOILS OR COMPACTED FILL.
- 4. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, IF REQUIRED.
- 5. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- 6. EXCAVATION FOR NEW FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. CONTRACTOR TO NOTIFY THE INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. INSPECTOR TO SUBMIT LETTER OF COMPLIANCE.
- 7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.

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PROJECT

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BG

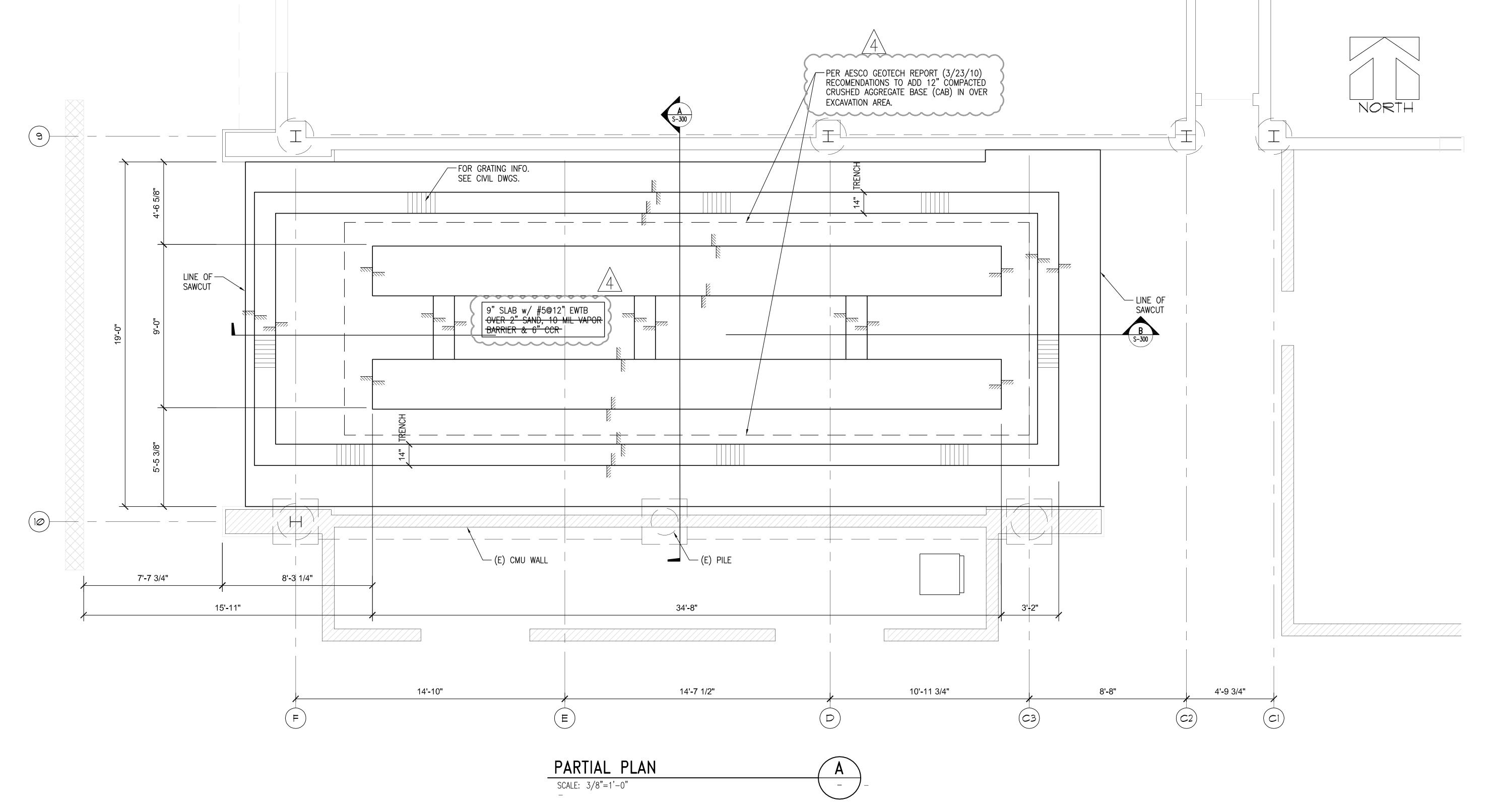
OC.

JOB # 4012924-0012 DATE 7/11/2008 S-100

> 1717 East Via Burton St Anaheim, CA 92805







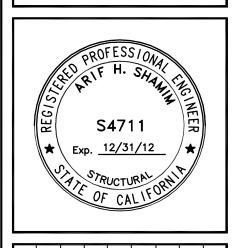
NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET S-100.
- 2. SEE S-300 FOR CONCRETE DETAILS AND SECTIONS.
- 3. FOR TOP OF SLAB ELEVATION, SEE C-100. 4. SEE ARCH. CIVIL AND ELECTRICAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, FLOOR SLOPES, CURBS,
- 5. NO CONCRETE SHALL BE POURED IN ANY FOUNDATION UNTIL EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

DRAINS, TRENCHES, AND OTHER INFORMATION NOT

- 6. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL FOOTING PENETRATIONS WHICH MAY BE REQUIRED BY OTHER DISCIPLINES PRIOR TO EXCAVATING FOUNDATION. SEE 1/S-300.
- 7. INDICATES STEP IN SLAB ON GRADE. SEE 2/S-300.
- 8. THESE STRUCTURAL PLANS AND DETAILS ARE PROVIDED FOR BUS LIFT MODEL: 50/32-F WITH MAX LIFTING CAPACITY OF 50 000 LRS





50% SUBMITTAL	95% SUBMITTAL	ADDENDUM	RECORD DRAWINGS			REVISIONS
H	ВН	ВН				ВУ
12-5-08	1-5-09	3-17-09	11-13-11			DATE
1	2	3	4			MARK

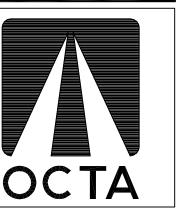
BUS LIFT PROJECTS

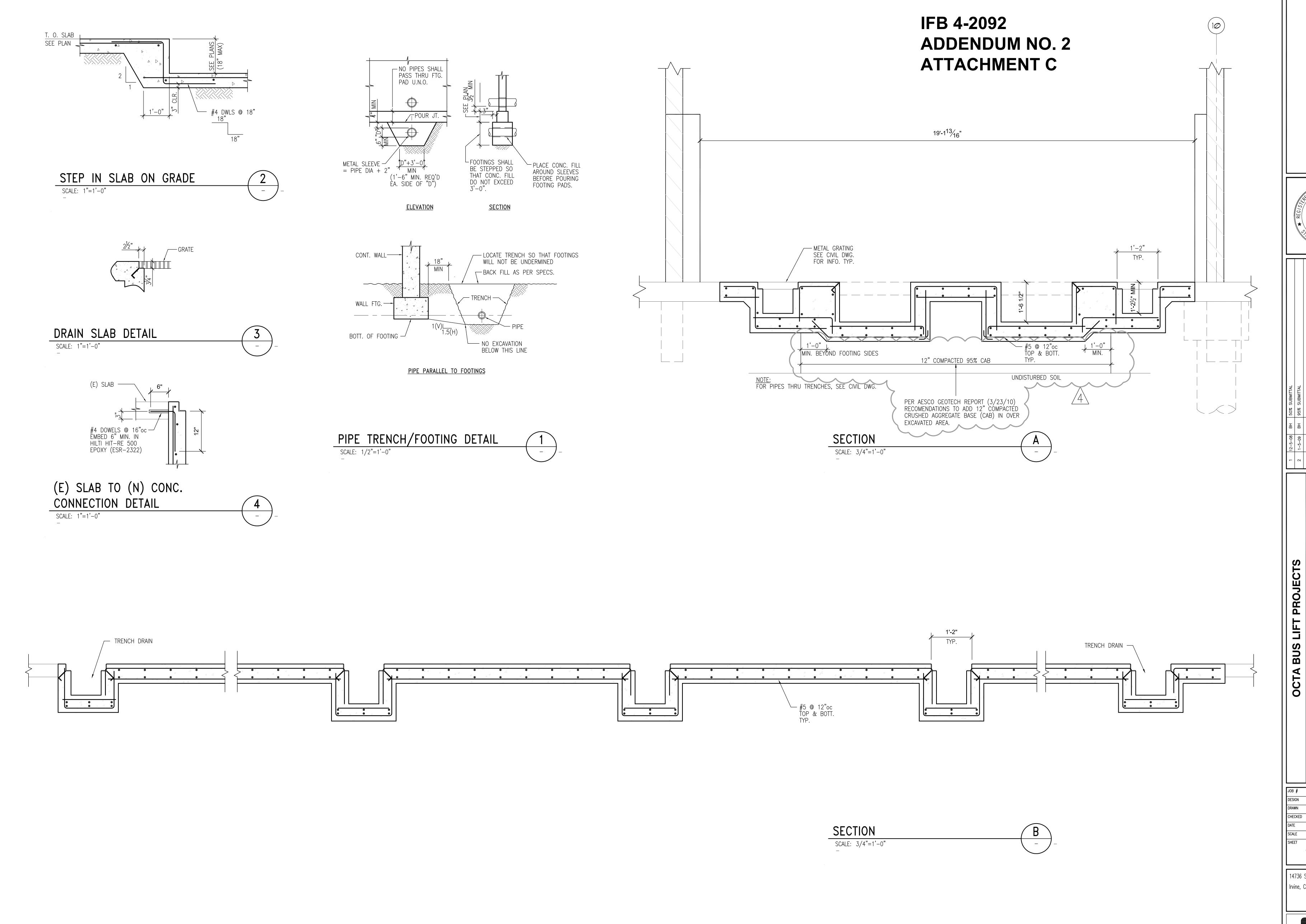
IRVINE S LIFT PI

JOB # 4012924-0012 CHECKED RN

scale AS NOTED **S-200**

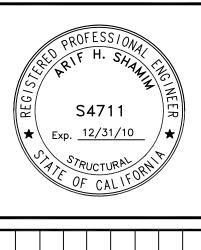
Irvine, CA 92618

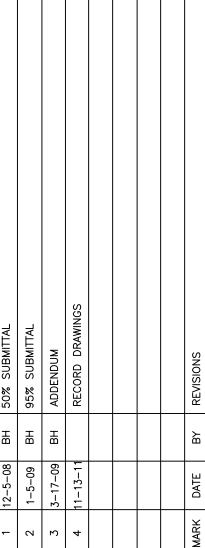




STV Incorporate engineers/architects/planners/construction manager 1055 WEST 7th STREET, SUITE 3150 LOS ANGELES, CA. 90017-2577







IRVINE LIFT SECTIONS & DETAIL!

JOB # 4012924-0012

DESIGN RN

DRAWN DSE

CHECKED RN

DATE 1/19/09

SCALE AS NOTED

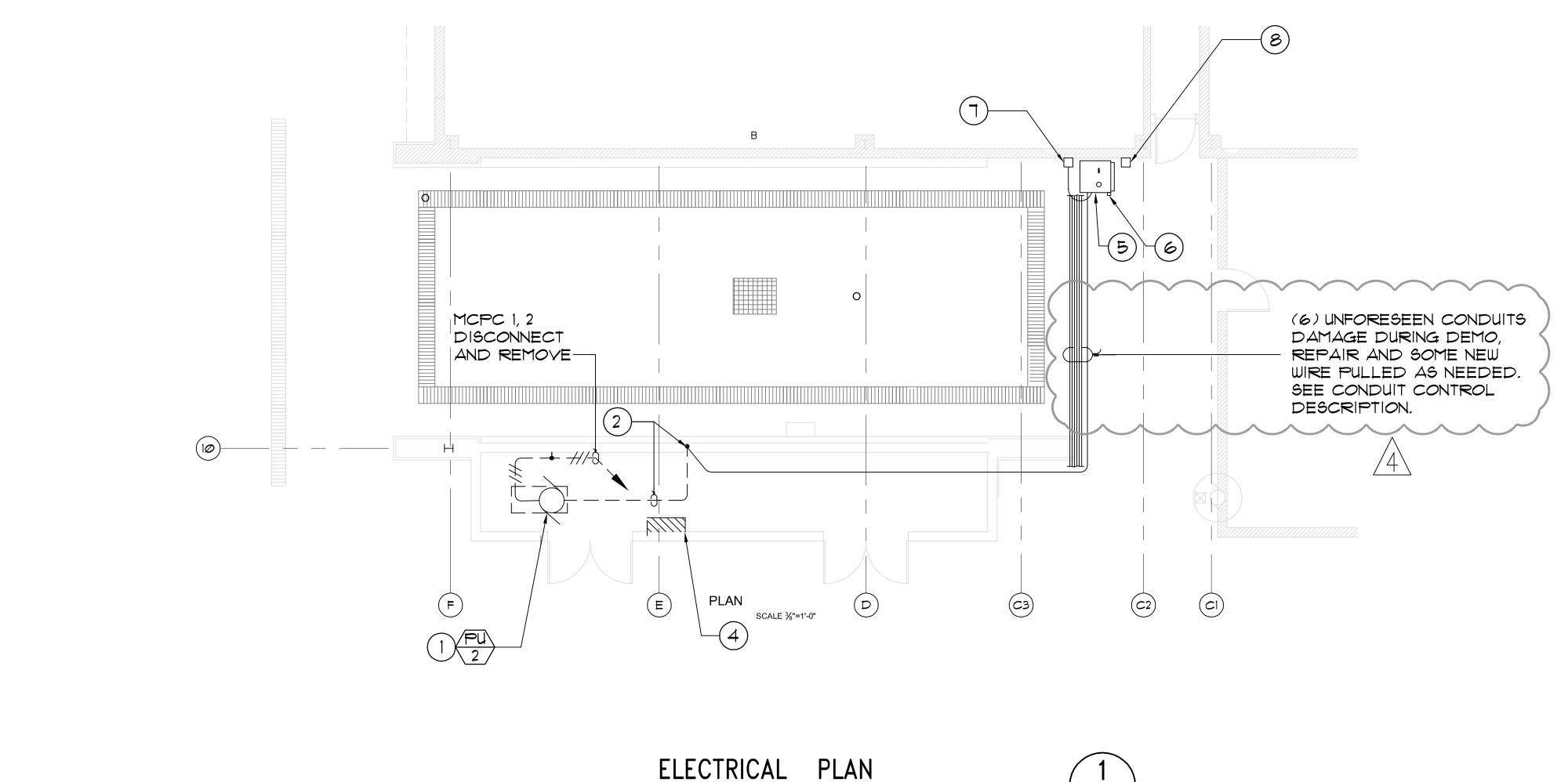
SHEET

S-300

14736 Sand Canyon Ave Irvine, CA 92618



IFB 4-2092 ADDENDUM NO. 2 ATTACHMENT C



SCALE: 1/4" = 1'-0"

M	OTO	R CONTROL PAN	IEL	MCF	PC				MAIN _100	0A N.T.
		480 VOLTS		3	PHAS	E	3	WIRE BU	JS 10	ØA
	С		HP	BREA	KER	STARTER	L	OAD	FEEDER	
	R	DESCRIPTION	KW	AMPS	POLE	SIZE	AMPS	K.V.A.	CONDUIT	WIRE
	1 .	HYDRAULIC PUMP	20	40	3	# 2	27	22.6	AS SI	HOWN
	2	SPARE	-	40	3	# 2				
	3 :	STEAM CLEANER	2	15	3	-	3.4	2.8	AS SI	HOWN
4	4	AIR COMP	5	2Ø	3	# 1	7.6	6.1		
į	5									
	6									
-	7									
	8									
	9									
1	0									
1	1									
1	2									
					1					1

SHEET NOTES:

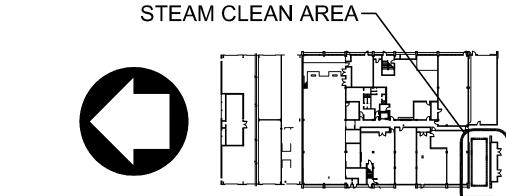
REPLACE EXISTING HYDRAULIC DRIVE UNIT OF 2-7 1/2 HP (480V, 3 PH) MOTORS, BY A SINGLE 20 HP (480V, 3 PH)UNIT IN THE SAME LOCATION.
RECONFIGURE PADMOUNT AS REQUIRED.

GRAPHIC SCALE

SCALE: 3/16"=1'-0"

3' 0 3' 6'

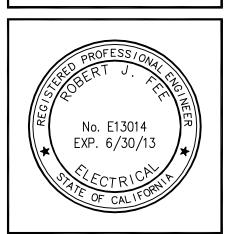
- PULL-OUT EXISTING HOMERUN AND REWIRE WITH NEW 3 *8 & 1 *10 G. TO THE SAME CIRCUIT IN EXISTING CONDUIT. PROVIDE 1 NEW 40A., 3P CIRCUIT BREAKER TO REPLACE EXISTING BREAKERS AT CIRCUITS 1 & 2.
- DISCONNECT AND REMOVE EXISTING SWITCH.
 REMOVE EXISTING WIRING IN CONDUIT AND
 REPLACE WITH NEW WIRING AS SHOWN TO NEW
 HYDRAULIC UNIT/CONTROL CONSOLE VIA THE
 EXISTING BOX. INSTALL NEW PULLBOX AS
 REQUIRED.
- 4 EXISTING MOTOR CONTROL PANEL" MCPC"
- 5 NEW HYDRAULIC UNIT/CONTROL CONSOLE BY LIFT
- NEW NEMA 3R, 60 AMP-3 POLE, 480 VOLT NON-FUSED DISCONNECT SWITCH.
- NEW 110Y CONTROL POWER CIRCUIT BACK TO EXISTING PANEL WITH NEW 20 AMP BREAKER.
- 8 POWER FOR CONTROL CONSOLE FROM PANEL MLG, CKT 24.
- 9 POWER FOR STEAM CLEAN OVERHEAD LIGHTS AND PUMP ROOM LIGHTS, AND EXT. WALL PACKS FROM PANEL MHC 17, 19 AND 21.
- POWER TO DRYER AND FANS FROM PANEL MLH CIRCUIT 14.
- WHITE CONDUIT AND WHITE COMMUNICATION WIRE FOR OVERHEAD SPEAKER OUTSIDE TUNNEL.



KEY PLAN

STV Incorporation engineers/architects/planners/construction 1055 WEST 7th STREET, SUITE 31 LOS ANGELES, CA. 90017-2577





	TAL	LAL		MINGS				
	50% SUBMITTAL	95% SUBMITTAL	ADDENDUM	RECORD DRAWINGS			REVISIONS	
	ВН	ВН	ВН				ВУ	
	12-5-08	1-5-09	3-17-09	11-13-11			DATE	
	1	2	3	4			MARK	

IRVINE

LIFT PROJECTS

BUS

JOB # 4012924-0012

DESIGN RJF

DRAWN GM

CHECKED AK

DATE 12-25-08

SCALE AS NOTED

14736 Sand Canyon Ave Irvine, CA 92618 714/560/0CTA

E-100



ORANGE COUNTY TRANSPORTATION AUTHORITY ENGINEER COST ESTIMATE BUS HOIST REPLACEMENT AT **IRVINE SAND CANYON BUS BASE** DESCRIPTION QUANTITY Item RATE TOTAL(\$) MATERIAL Total Area 305 Sft x 0.83 inches= 254 Cft/27= 10 Cyds Provide Class II Aggregate Base 10 inches thick 11 Cyds \$75.0/Cyd \$825.00 Provide Re-bar for concrete foundation 0.25 T 4000/T \$1,000.00 Provide number 4 Dowels 75 Each \$10.00 \$750.00 Provide Concrete for outside slab 10" Thick 11 Cyds \$165/Cyd \$1,815.00 Provide Sikaflex 2C NS TG Joint Sealant 100 L F \$5.0 / LF \$500.00 Provide 6" Dia.Schd 40 PVC Drain Pipe+Adapter 25 L.F. \$55.00/LF \$1.375.00 Provide Bus Lift Hoist 1 Unit L.S. \$170,000.00 **Provide new Control Console** 1 Each \$1,000.00 \$1,000.00 Provide new Circuit Breaker 60 amp 1 Each \$250.00 \$250.00 \$5.00 Provide new Conduit to Electric Panel 200L.F. \$1,000.00 Provide new Conductors to Electric Panel 1000L.F. \$1.00 \$1,000.00 Provide Hydraulic Tank & Accessories for lift operation. L.S. \$1.000.00 \$1,000,00 Sales Tax (7.75%) \$180,515.00 = \$14000.0 \$14,000.00 2 LABOR Sawcut outside Concrete at west end (2Dx2Wx8Hrs) 32 Hrs. \$90.00 \$2.880.00 Demolition of exist outside concrete slab & trench Excavate existing aggregate base remove dispose Operator Bobcat hammer (5Dx8Hrs) 40 Hrs. \$90.00 \$3,600.00 Backhoe operator collect demolished conc (5Dx8Hrs) 40 Hrs \$90.00 \$3,600.00 Load demolished concrete/Agg Base(5Dx2Wx8Hrs) 80 Hrs \$90.00 \$7,200.00 Compact exist Sub-base 90% compaction (2Wx8Hrs) 16 Hrs \$90.00 \$1,440.00 16 Hrs Install new aggregate base, Compact (2Wx8Hrs) \$90.00 \$1,440.00 Install Formwork and Re-bar and dowels Install Re-bar for outside concrete slab (4Wx8Hrs2D) and epoxy 64 Hrs. \$90.00 \$5,760.00 Place finish concrete slab and pit (6Wx8Hrs) 48 Hrs \$90.00 \$4.320.00 Install Joint sealant (2wx8Hrsx2D) 32 Hrs. \$90.00 \$2,880.00 \$90.00 Install Bus hoist lift and control Console.(4Wx5Dx8Hr) 160Hrs \$14,400.00 Truck Driver deliver material dispose debris 160 Hrs. \$90.00 \$14,400.00 \$150.00 Safety on Site 160 Hrs \$24,000.00

3	EQUIPMENT			
	Demolition of outside concrete slab and Drain Pit			
		0.0	A4 500 00	#0.000.00
	Saw- Cut equipment and Truck	2 Days	\$1,500.00	\$3,000.00
	Provide Bobcat /Hammer demolish conc (Deliver/Ret)	5 Days	\$700.00	\$3,500.00
	Back hoe bucket load demo concrete (Deliver/Ret)	5 Days	\$700.00	\$3,500.00
	Truck Deliver Material and Dispose Debris	20 Days	\$250.00	\$5,000.00
	Mechanical Compactor	5 Days	\$200.00	\$1,000.00
	Crane for Lift Bus lift Unit	1 Day	\$5,000.00	\$5,000.00
	Fencing on site 60 L.F. (30 Days)	L.S.	L.S.	\$1,000.00
	Deliver Bus Lift to site Wide Load cost	L.S.	\$15,500.00	\$15,500.00
		-	-	_
	Sales Tax (7.75%) x \$ 37,500.0 = \$ 2900.0			\$2,900.00
4	Dispose / Dump Fees	L.S.	\$5,825.00	\$5,825.00
5	Project Fees	L.S.	\$2,500.00	\$2,500.00
6	Sub-Total			\$329,160.00
7	Overhead and Profit (20%)		+	\$65,832.00
			TOTAL	\$394,992.00