

GENERAL NOTES

GENERAL

GC-1 LOCATE ALL EXISTING MECHANICAL, PLUMBING, ELECTRICAL AND OTHER UTILITY LINES PRIOR TO BEGINNING WORK.

GC-2 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.

GC-3 APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING TO BRACE THE STRUCTURE IN ALL DIRECTIONS.

GC-4 THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

GC-5 GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, GRADE CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK AS HE WILL BE RESPONSIBLE FOR ALL WORK FITTING AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.

STRUCTURAL DESIGN CRITERIA

SD-1

A. LIVE LOADS:

NEW COVERS WITH FOOT TRAFFIC = 50 PSF

COVERS WITH WHEEL TRAFFIC = AASHTO HS20

STAINLESS STEEL

ST-1 STAINLESS STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODES OF THE LATEST ADOPTION. SUBMIT SEALED SHOP DRAWINGS AND CALCULATIONS WITH TEXAS P.E. SEAL PRIOR TO BEGINNING WORK.

ST-2 STEEL MATERIALS SHALL CONFORM TO ASTM A316 AND (A316L FOR WELDING)

- EXPANSION BOLTS SHALL BE STAINLESS STEEL AND SHALL BE ONE OF THE FOLLOWING:
- HILTI KB III
 - OR
 - SIMPSON STRONG TIE WEDGE ALL
 - OR
 - POWERS FASTENERS POWER - STUD SD2

LOCATION OF EXPANSION BOLTS RELATIVE TO EDGE OF CONCRETE SHALL CONFORM TO ACI 318-05.

ST-3 SPLICING OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE.

ST-4 ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE LATEST AWS CODE.

ST-5 COAT ALL EXPOSED FIELD WELDS WITH CARBOMASTIC 15 (TWO PART EPOXY MASTIC) AS MANUFACTURED BY CARBOLINE (800 848-4645 OR 210-930-4313)

STRUCTURAL ALUMINUM

SA-1 ALUMINUM FRAMING SHOWN ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL BE DESIGNED BY ALUMINUM SUPPLIER'S ENGINEER. CONTRACTOR SHALL SUBMIT SEALED SHOP DRAWINGS AND CALCULATIONS SEALED BY A TEXAS P.E. FOR ALL NEW FRAMING. ALL FRAMING SHALL CONFORM TO IBC 2009 AND THE ALUMINUM CONSTRUCTION MANUAL LATEST EDITION. SEE SECTION SD-1 FOR REQUIRED DESIGN LOADS FOR FRAMING.

SA-2 ALL ALUMINUM FRAMING SHALL BE SUPPLIED BY HALLSTEN CORP. OR APPROVED EQUAL. (HALLSTEN.COM)

SA-3 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EPOXY

EX-1 ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED CONCRETE WITH EPOXY ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE ENGINEER.

EX-2 ALL EPOXY WORK SHALL BE INSPECTED BY THE LAB DURING INSTALLATION. THE PROCEDURE FOR INSTALLATION OF REBAR AND ALL THREAD RODS WITH EPOXY IS AS FOLLOWS:

A. DRILL HOLE WITH A ROTARY HAMMER. HOLE DIAMETER SHALL BE 1/8" GREATER IN DIAMETER (NO LARGER) THAN THE DIAMETER OF THE ROD OR REBAR BEING INSTALLED.

B. CLEAN HOLE WITH COMPRESSED AIR. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE DUST, DIRT AND OIL.

C. FILL HOLE WITH EPOXY.

D. CLEAN STEEL RODS OR REBAR WITH A WIRE BRUSH TO A BRIGHT FINISH.

E. INSERT ROD OR REBAR INTO HOLE.

F. LET EPOXY CURE FOR 24 HOURS WITHOUT BEING DISTURBED.

EX-3 ALL EPOXY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

EX-4 ALL EPOXY SHALL DEVELOP A COMPRESSIVE STRENGTH OF 7,000 PSI AND A TENSILE STRENGTH OF 2,500 PSI IN 7 DAYS.

EX-5 ACCEPTABLE PRODUCTS ARE:

1. HILTI HY150 MAX OR SIMPSON SET EPOXY OR APPROVED EQUAL.
2. ALL THREAD RODS SHALL BE HILTI HIT-TZ RODS.

SUBSTITUTIONS MAY BE CONSIDERED PROVIDED COMPLETE TECHNICAL INFORMATION IS FURNISHED TO THE ENGINEER AND APPROVED PRIOR TO COMMENCEMENT OF WORK. IN USING THE ABOVE PRODUCTS, FOLLOW STRICTLY THE MANUFACTURER'S SPECIFICATIONS AND DIRECTIONS FOR MIXING AND APPLICATION. ALSO HEED ALL LABEL WARNINGS BY MANUFACTURER. MAKE APPLICATION IN ACCORDANCE WITH APPLICABLE SAFETY LAWS.

FIELD WELD INSPECTION

FW-1 THE CONTRACTOR SHALL EMPLOY A QUALIFIED TESTING LAB (AWS CERTIFIED WELD INSPECTOR) TO PERFORM VISUAL WELD INSPECTIONS ON ALL FIELD WELDS. ALL WELDS FAILING INSPECTIONS SHALL BE REINSPECTED UNTIL THEY PASS. THE LAB SHALL SUBMIT WRITTEN REPORTS OF ALL INSPECTIONS TO SAWS AND THE STRUCTURAL ENGINEER.

APPLICABILITY OF TYPICAL DETAILS

TD-1 TYPICAL DETAILS SHALL APPLY TO ALL SUCH SITUATIONS AND CONDITIONS WHICH ARE SIMILAR TO THE CONDITION SHOWN ON THE DETAIL OR VERBALLY DESCRIBED IN THE TITLE OF THE DETAIL OR NOTES ON THE DETAIL.

TD-2 TYPICAL DETAILS SHALL APPLY REGARDLESS OF WHETHER OR NOT THE DETAIL SECTION MARK IS CUT ON THE PLANS.

MISCELLANEOUS

VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURES AT THE JOB SITE PRIOR TO BEGINNING WORK.

M-1 SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS INCLUDING REBAR, STEEL, STRUCTURAL STAINLESS STEEL AND STRUCTURAL ALUMINUM MEMBERS, GRATING, BOLTS, DOORS, HANDRAILS, ETC. SHOP DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER ALLOWING A MINIMUM OF 10 WORKING DAYS FOR REVIEW BY STRUCTURAL ENGINEER.

M-2 CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL INSPECTIONS REQUIRED BY THE IBC CODE. ALL INSPECTIONS SHALL BE PAID FOR BY THE OWNER.

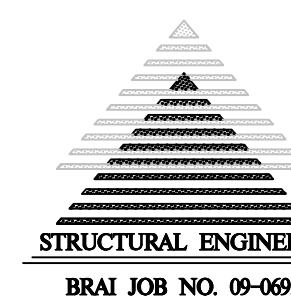
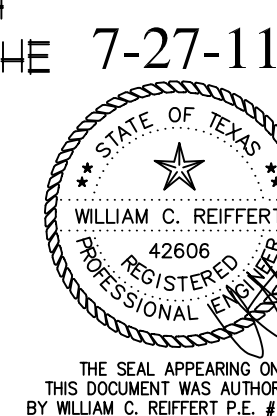
SITE OBSERVATION BY THE STRUCTURAL ENGINEER

SV-1 PERIODIC SITE OBSERVATIONS BY FIELD REPRESENTATIVES OF BILL REIFFERT AND ASSOCIATES ARE SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED SITE OBSERVATIONS SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

SV-4 DO NOT COVER UP STRUCTURAL FRAMING UNTIL IT HAS BEEN REVIEWED BY THE ENGINEER.

REPRODUCTION NOTE

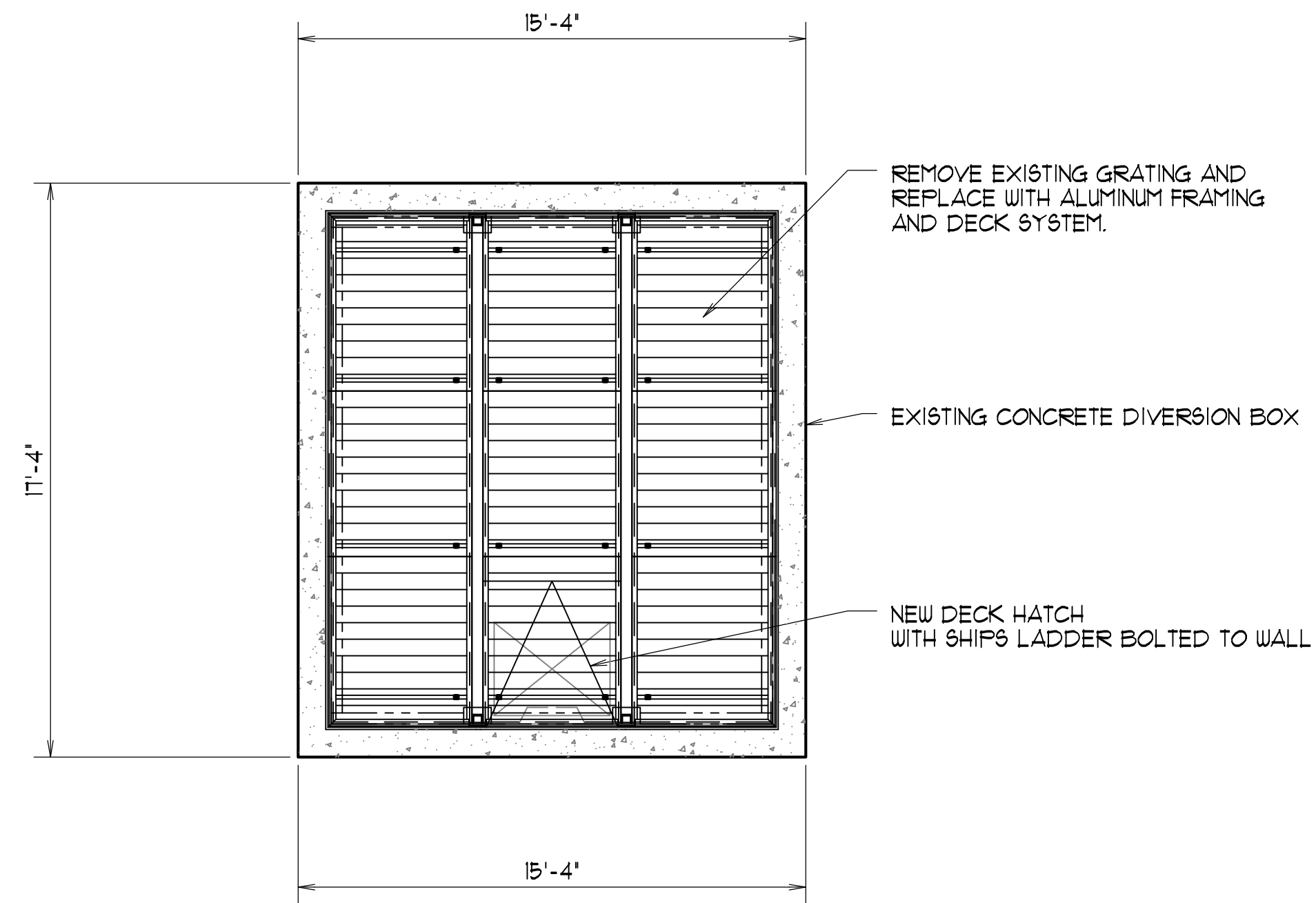
R-1 THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.



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	SALADO CREEK WATER RECYCLING CENTER STRUCTURE COVERS
DEVELOPER: _____	
CONT. _____	BUDGET PROJ. _____
SUBMITTED _____	
APPROVED _____	
MAP No. _____	SHEET
SECT. No. _____	91
DR. JNT CK. BR	JOB No. _____

7-27-11



NOTE:
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SCHEMATIC FRAMING PLAN FOR NEW COVER OVER EXISTING 'LAST DIVERSION BOX' STRUCTURE
 SCALE : 1/4" = 1'-0"
5501



PHOTO #1



PHOTO #2



PHOTO #3



PHOTO #4



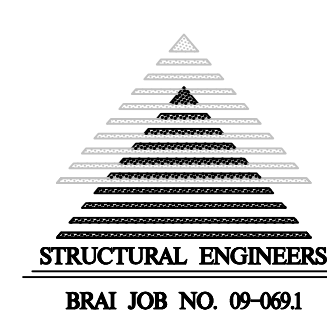
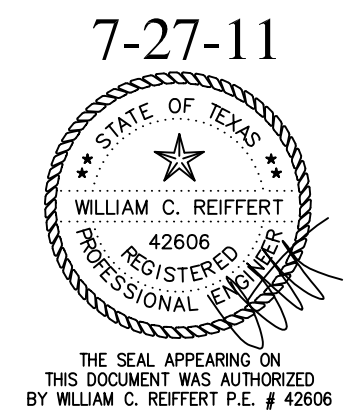
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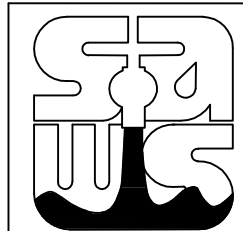
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PHOTO #7



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		DEVELOPER: SALADO CREEK WATER RECYCLING CENTER STRUCTURE COVERS	
		CONT.	BUDGET PROJ.
SUBMITTED		APPROVED	
MAP No.		SHEET 55	
SECT. No.	DR. JNT	CK. BR	JOB No.