

FLOOR PLAN
3/32"=1'-0"

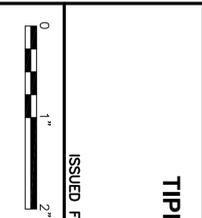
HDR
HDR Engineering Inc.
440 S. Orange Street, Suite 1000 | Orlando, FL 32802

ISSUE	DATE	ISSUED FOR	DESCRIPTION
A	10/2009	10/2009	ISSUED FOR BID

PROJECT MANAGER: J. LOCKLEAR	DESIGNED BY: J. GRUBER	DRAWN BY: W. MALACINI
CHECKED BY: H. ANTISHEL	PROJECT NUMBER: (195) 112754	

PE NAME: Jeffrey T. Gruber
PE No.: 64444
CA No.: 4213

LEON COUNTY SOLID WASTE TRANSFER STATION FLOOR REPAIR
LEON COUNTY, FLORIDA



TIPPING FLOOR REPAIR STRUCTURAL FLOOR PLAN
ISSUED FOR BID - NOT FOR CONSTRUCTION
FILENAME: 005-01.dwg
SCALE: AS NOTED
SHEET: 005-01

REPAIR ZONE	POUR SEQUENCE	TOPPING THICKNESS (1)	ESTIMATED TOPPING VOLUME (2)	REINFORCING
1	1	5"	89 CY	(3)
2	1	3"	42 CY	-
3	1	2"	24 CY	-
4	2	2"	24 CY	-
5	3	3"	56 CY	-
6	4	2"	24 CY	-

- (1) THICKNESS ABOVE ORIGINAL FLOOR ELEV. TO BE VERIFIED BY FIELD SURVEY FOR BIDDING ONLY.
(2) FOR REIN OF THIS ZONE SEE SHT S-02 SECT "B"
(3) SEE SHT S-02 SECT "B"
- REINFORCING NOTES:**
R1. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, GRADE 60, AND SHALL CONFORM TO ASTM A615. ALL SPLICES SHALL BE IN ACCORDANCE WITH A01 318-05 AND STANDARD DETAILS.
R2. REINFORCEMENT SHALL BE CLEANED BEFORE PLACEMENT TO REMOVE ALL DUST, DIRT, RUST, OIL, GREASE, AND OTHER FOREIGN MATTER, WHICH COULD PREVENT OR REDUCE BONDING. THE CONTRACTOR SHALL INSURE THAT SUCH CLEANLINESS IS MAINTAINED UNTIL CONCRETE HAS BEEN PLACED.
R3. SPACING OF REINFORCEMENT SHALL NOT BE PERMITTED EXCEPT WHERE SHOWN ON APPROVED SHOP DRAWINGS. SPLICES SHALL PROVIDE LAP PER SCHEDULE TO TRANSFER THE STRESS BETWEEN BARS BY BOND.
R4. DO NOT WELD REINFORCING BARS.
R5. REINFORCEMENT SHALL BE SUPPORTED BY SPECIFIC ACCESSORIES WHICH WILL PROVIDE THE REQUIRED PROTECTIVE CONCRETE COVER. MASONRY CONCRETE BLOCKS OR "EQUAL" SHALL NOT BE USED TO SUPPORT BARS.
R6. REINFORCING LAP SPLICE:
#4 LAP = 2'-0"
#5 LAP = 2'-6"
#6 LAP = 3'-0"
- STEEL NOTES:**
S1. DESIGN PROPERTIES: PLATES, ANGLES, WT. AND ETC. F_y=36 KSI (MIN.) (UNO) ABRASION RESISTANT "AR" WEAR PLATE ASTM A514 STEEL (BRINNELL 360 MIN.)
S2. ALL METAL SURFACES SHALL RECEIVE A UNIVERSAL SHOP PRIMER COATING.

- KEY NOTES:**
1. EXISTING INFILL WALL AT ABANDONED LOAD OUT CONVEYOR OPENING.
2. WEAR PLATE REPAIR.
3. FEATHER TOPPING THICKNESS (12H:1V MAX.) TO LOWER NEW SLAB LEVELS.
4. LOCATE A CONSTRUCTION JOINT ALONG EXISTING SLAB JOINT.
5. CLEAN AND PREPARE CONSTRUCTION JOINT FOR PHASE 2. SEE "SURFACE PREPARATION".
- SURFACE PREPARATION:**
P1. ALL EXISTING CONCRETE SURFACES, RECEIVING A TOPPING/OVERLAY SHALL BE SOUND, CLEAN, AND FREE OF ALL BOND-INHIBITING MATERIALS INCLUDING OIL, DIRT, DUST, LAZANE AND STANDING WATER. REMOVE ALL LOOSE AND DETERIORATED CONCRETE BY MEANS OF AN EXHAUSTIVE CLEANING CONCRETE BRUSHES CAN BE ACCOMPLISHED BY SANDBLASTING, WATER BLASTING, HYDRO LETTING, SCARIFICATION, OR SHOT BLASTING.
- P2. SCRUB COAT: DAMPEN THE AREA TO BE REPAIRED SO THAT THE PORES OF THE CONCRETE ARE FILLED WITH WATER. REMOVE ANY FONDING OR GUSTENING WATER REMAINING ON THE SURFACE. BRUSH A MORTAR SCRUB COAT INTO THE CONCRETE SUBSTRATE TO ESTABLISH A BOND. THE SCRUB COAT SHALL REMAIN WET OR TACKY UNTIL THE PLACEMENT OF THE TOPPING SLAB. IF THE SCRUB COAT DRIES A FRESH SCRUB COAT SHALL BE APPLIED. THE MORTAR SCRUB COAT SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 2 PARTS FINE AGGREGATE.
- P3. EXISTING EXPOSED REBAR TO BE 1-1/2" CLEAR OF CONCRETE IN ALL DIRECTIONS. CHIP-OUT AS REQUIRED WITHOUT DAMAGING REBAR.
- P4. APPLY CORROSION INHIBITOR TO EXPOSED EXISTING REINFORCING USING "Sika FerroDard-903".
- LEGEND:**
EL. xxx'x' (O).....ORIGINAL DESIGN ELEVATIONS.
EL. xxx'x' (N).....NEW TOPPING ELEVATIONS.
- GENERAL NOTES:**
G1. FOR ADDITIONAL PROJECT INFORMATION SEE SHEET 005-02.
G2. FOR ADDITIONAL REFERENCE DRAWINGS SEE ORIGINAL CONSTRUCTION DOCUMENTS BY BRANDELT PLETTERS & ASSOCIATES, INC., "S" SERIES DRAWINGS.
G3. WORK SHALL PROGRESS FROM PHASE-1 THROUGH PHASE-2 AS DIRECTED BY OWNER. CONTRACTOR SHALL BID PHASED WORK AS INSTRUCTED BY THE CONTRACT DOCUMENTS.
APPLICABLE SPECIFICATIONS AND CODES:
1. FLORIDA BUILDING CODE 2007 EDITION (INCLUDING LOCAL JURISDICTION AMENDMENTS)
2. ACI 318-05
3. ASC STEEL CONSTRUCTION MANUAL, 13TH EDITION
4. AWS D1.1-06, STRUCTURAL WELDING CODE - STEEL
- CONCRETE NOTES:**
C1. REINFORCED CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF A01 301-05, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," EXCEPT AS MODIFIED BY SUPPLEMENT REQUIREMENTS. THE WORK SHALL ALSO CONFORM TO ACI 318-05, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
C2. CONCRETE QUALITY
A. ALL SLAB ON GRADE & TOPPING OVERLAYS SHALL BE 6000 PSI (UNO), BALANCE 3000 PSI.
B. CONCRETE SPECIFICATIONS ARE AS FOLLOWS:
SPEC 03308 - CONCRETE MATERIALS AND PROPORTIONING
SPEC 03311 - CONCRETE MIXING, PLACING, JOINTING AND CURING
SPEC 03348 - CONCRETE FINISHING AND REPAIR OF SURFACE DEFECTS
SPEC 03350 - CONCRETE TESTING
C3. CONCRETE COVER:
UNLESS OTHERWISE NOTED, PROVIDE CONCRETE CLEAR COVER FOR REINFORCING AS FOLLOWS:
CONCRETE DEPOSITED AGAINST EARTH - 3-INCHES
ALL OTHERS - 2-INCHES
SEE DRAWINGS FOR EXCEPTIONS
C4. CONCRETE CURING: CURING SHALL START AS SOON AS POSSIBLE AFTER FINISHING.
A. HORIZONTAL SURFACES: WET BURLAP, PLASTIC SHEETING, CURING PAPER, TAPPALUNTS, OR A COMBINATION SHALL BE USED (SEE SPEC).
B. VERTICAL SURFACES: TWO COATS OF A MEMBRANE-CURING COMPOUND MAY BE USED (SEE SPEC).
C5. SURFACE FINISH:
A. HORIZONTAL SURFACES: BULL FLOAT (NO POWER FLOATING) FOLLOWED WITH APPLICATION OF A CHEMICAL FLOOR HARDENER (SEE SPEC 03348).
B. VERTICAL SURFACES: SMOOTH FORM. REPAIR ALL SURFACE DEFECTS.
C6. CONSTRUCTION JOINT "C": SQUARE FORMED POUR STOP.

