## TRUCTURAL DESIGN DATA AND GENERAL NOTES

BUILDING CODE 1996 BOCA AND 1999 CONNECTICUT SUPPLEMENT WITH THE 2000 AMENDMENTS DESIGN LIVE LOADS

1. LIVE LOAD:

INPORTANCE FACTOR (I)

MATERIAL STRENGTHS DESIGN

CONCRETE (Fc CONCRETE UNO ON GRADE @ 28 DAYS) 8,000 8,000

REBAR (GRADE 60) (ASTM 6115) WELDED WIRE FABRIC (ASTM A-185) 3. STRUCTURAL STEEL (Fy)

60,000 PSI 60,000 PSI

REINFORCING STEEL (Fy)

STEEL PLATES (UNO) (ASTM 588)

50,000 PSI

NOTES

1. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATIONS. CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE USED AND COORDINATED BY THE CONTRACTOR IN CONJUNCTION WITH THE SHOP DRAWINGS AND OTHER SUBMITTALS, AND THE SUBSURFACE/ GEOTECHNICAL DATA.

2. CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITION AND CONTRACT DOCUMENTS.

3. THE CONTRACTOR PRIOR TO SUBMITTING THE SHOP DRAWINGS FOR THE ENGINEER'S REVIEW, SHALL PERFORM A CHECK OF THE DRAWINGS AND STAMP THE SHOP DRAWINGS "REVIEWED". NO FABRICATION OR DELIVERY OF MATERIAL NOT REQUIRING FABRICATION WILL BE ALLOWED UNLESS SPECIFIC AUTHORIZATION HAS BEEN RECEIVED BY CRRA. SHOP DRAWINGS SUBMITTED TO THE ENGINEER WITHOUT FIRST BEING STAMPED "REVIEWED" BY THE GENERAL CONTRACTOR SHALL BE RETURNED WITHOUT BEING REVIEWED BY THE ENGINEER. REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

4. CONTRACTOR SHALL STRICTLY ADHERE TO ALL APPLICABLE SAFETY REGULATIONS INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS, WHILE PERFORMING WORK. CONTRACTOR IS RESPONSIBLE FOR METHOD OF CONSTRUCTION. PROVIDE SHORING, TEMPORARY TIES, TEMPORARY SUPPORTS AND BRACING WHERE NECESSARY UNTIL WORK IS COMPLETE. MAKE FINAL FIT TIGHT TO ENSURE PROPER LOAD TRANSFER.

6. PROVIDE TEMPORARY CONSTRUCTION BARRIERS AROUND PERIMETER OF WORK CONSTRUCTION AS SHOWN AND SPECIFIED. 5. CONSTRUCTION ACTIVITIES WILL TAKE PLACE WHILE THE FACILITY REMAINS IN OPERATION. CONSTRUCTION PHASING ACTIVITIES SHALL BE COORDINATED WITH OWNER (CRRA) AND OPERATOR (MDC) AS SHOWN AND SPECIFIED. CONSTRUCTION PHASING SHALL NOT BE MODIFIED WITHOUT OWNER'S (CRRA) PRIOR WRITTEN APPROVAL.

DEMOLITION NOTES

1. TWO WORKING DAYS PRIOR TO ANY DEMOLITION OR EXCAVATION WORK THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455. 2. AT LIMITS OF REMOVAL, EXISTING CONCRETE SLAB SHALL BE SAWCUT TO AN 1 INCH DEPTH TO DELINEATE SLAB REMOVAL AREA PRIOR TO ANY DEMOLITION OF THE EXISTING CONCRETE SLAB. CONTRACTOR SHALL DISPOSE AF ALL DEMOLITION MATERIAL.

CONCRETE

2. BAR PLACEMENT SHALL CONFORM TO CONCRETE REINFORCING STEEL INSTITUTE'S RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. 1. ALL CONCRETE WORK SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS AND WITH THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS ACI 318. 3. REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST ACI (SP—66) MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). THE MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE FOLLOWS:

A) CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER (UNLESS

NOTED OTHERWISE):

CONCRETE POURED TO EARTH OR GROUND CONCRETE EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS #5 BAR, W31, OR D31 WIRE AND SMALLER CONCRETE WITH INTERIOR EXPOSURE: SLABS, WALLS, JOISTS #14 AND #18 BARS #11 BAR AND SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES AND SPIRALS

5. REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED SHALL BE LAPPED 6 INCHES AT THE SIDES AND ENDS. 1 1/2" 3/4" 1 1/2" A MINIMUM OF 30 INCHES WELDED WIRE

FABRIC

PROVIDE AND SHOW ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY POSITION. MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" OC WITH CONTINUOUS #5 SUPPORT BAR; AB BOLSTERS, CONTINUOUS AT 3'-6" OC

7. ALL CONCRETE TO BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE

STRUCTURAL

ALL WELDS TO BE MADE ONLY BY WELDERS WHO HAVE BEEN QUALIFIED AS PRESCRIBED IN THE "STRUCTURAL WELDING CODE" (ANSI/AWS D1.1) OF THE AMERICAN WELDING SOCIETY.

ALL WELDS SHALL BE WITH E70-XX ELECTRODES. ALL WELDING SHALL BE IN ACCORDANCE WITH "AWS STRUCTURAL WELDING CODE".

STRUCTURAL SLAB

THE TOLERANCE ON THE THICKNESS OF THE SLAB IS +3/8", -1/4".

PROVIDE ISOLATION JOINTS WHERE SEALANT TO ALL ISOLATION JOINTS SHOWN ON DRAWINGS. AS DETAILED. INSTALL SPECIFIED JOINT FILLER AND

FINISH THE SLAB SURFACE TO AN FF18/FL12 COMPOSITE TOLERANCE AND AN FF14/FL10 LOCAL TOLERANCE.

PROVIDE WELDED WIRE FABRIC (ASTM A-185) IN FLAT SHEETS ONLY. ROLLS ARE NOT ALLOWED. INCHES AT SIDES AND ENDS AND EXTEND TO WITHIN 2 INCHES OF THE SLAB EDGES.

REMOVE TEMPORARY CONCRETE JERSEY BARRIER CURB FROM STAGE  ${f I}$  AND AS SHOWN ON SHEET S-102. DEMOLISH CONRETE SLAB AS INDICATED. AT STAGE II

REPAIR CONCRETE SLAB, INSTALL RAILS AND STEEL PLATE AS INDICATES IN STAGE  ${f II}$  CONSTRUCTION AS SHOWN ON SHEET S-202.

REPAIR CONCRETE SLAB, AS INDICATED AT STAGE III CONSTRUCTION AS SHOWN ON SHEET

REPAIR CONCRETE SLAB, AS INDICATED AT STAGE  ${f IV}$  CONSTRUCTION AS SHOWN ON SHEET S-204.

AND REINSTALL

PLACE 2" BITUMINOUS CONCRETE PAVEMENT AS INDICATED ON DRAWINGS.

ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS — ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, 9TH EDITION.

INSTALL SLAB REINFORCING AS INDICATED ON THE DRAWINGS. SUPPORT REINFORCING CHAIRS OR BOLSTERS

LAP

SHOP DRAWINGS

표 FOLLOWING ITEMS REQUIRE SHOP DRAWINGS 9R

A. LAYOUT AND TYPE OF TEMPORARY BARRIERS FOR MAINTENANCE & PROTECTION OF FACILITY OR OPERATION.
B. CONCRETE MIX DESIGN.
C. REINFORCING STEEL BARS.
D. GROUT.
E. BRACING/SHORING/TEMPORARY SUPPORT SYSTEMS
F. STEEL PLATES & RAILS.
G. BITUMINOUS CONCRETE PAVEMENT MIX.
H. TACK COAT MATERIAL.

SEQUENCE OF CONSTRUCTION

INSTALL TEMPORARY CONCRETE JERSEY BARRIER CURBS DEMOLISH CONCRETE SLAB AS INDICATED. AS IN STAGE I DEMOLITION (SHEET

REPAIR CONCRETE SLAB, INSTALL RAILS, STEEL PLATE AND PROVIDE CONSTRUCTION JOINTS INDICATED AT STAGE  ${\bf I}$  CONSTRUCTION (SHEET S-201).

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REMOVE TEMPORARY CONCRETE JERSEY BARRIER CURB FROM STAGE  ${f II}$  and reinstall as shown on sheet s-103. Demolish concrete slab as indicated.

REMOVE TEMPORARY CONCRETE JERSEY BARRIER CURB FROM STAGE III and reinstall at stage IV, as shown on sheet s-104. Demolish concrete floor as indicated.

AT STAGE

REMOVE TEMPORARY CONCRETE JERSEY BARRIER CURBS FROM STAGE  ${f IV}$  AS SHOWN ON SHEET S-105. DEMOLISH CONCRETE FLOOR AS INDICATED.

REMOVE TEMPORARY CONCRETE JERSEY BARRIER CURB FROM STAGE  ${f IV}$  AND FROM THE SITE.

THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE MAY BE VARIED WITH THE PERMISSION OF ENGINEER AND/OR OWNER.

**ABBREVIATIONS** 

CONNECTICUT

RESOURCES
RECOVERY
AUTHORITY

(860)-757-7700 (860)-757-7742

BRG BECKG BECKG BECKG BECKG BECKG BECKG RING
CKING ERNATE HOR BOL ELEV

TER LINE G LINE FOOTING **ELEVATION** 

JAMN
CRETE
CRETE
NECTION
STRUCTION
TINUE, CONTINUOUS
TRACTOR
TRACTOR
TROL JOINT
JAN STRIP

LOAD

DUIPMENT
DUIVALENT
SUIVALENT
AISTING
APANSION JOINT
APANSION
TERIOR
AR SIDE
ET OR FOOT
NISH, FINISHED
REPROOFING
ASHING
ASHING METER JENSION JANCE VEL WING H FACE B S REFAB RAD or RECT RECT RECT

JNC
LD, REVISION
JF DRAIN
JFING
EDULE
TION
T

TANGLE, RECTANGULAR FORCE, REINFORCING FORCED CONCRETE UIRED

Z

**3RICATED** 

INCHES
INCLUDING INSIDE DIAMETER THE STATE OF ERTICAL, VERTICALLY
ERIFY IN FIELD
ATERPROOF RAIGHT RUCTURAL RUCTURAL STEEL PPORT ICK, THICKNESS
DUSAND POUNDS
READ, THREADED
ROUGH
AND BOTTOM
ELEVATION
OF FRAME
OF SLAB ELEVATION
OF STEEL ECIFICATIONS UARE FEET (FOOT) NINLESS STEEL DED WIRE FABRIC ACE OL, SYMMETRICAL

OOR DRAIN
OTING
UNDATION
RRED, FURRING
TURE
LVANIZED

\* WHEN PERTAINING TO DETAILS CIRCLE IS REPLACED WITH A SQUARE SHEET ON WHICH SECTION OR DETAIL IS LOCATED\* DETAIL NUMBER

SECTION AND DETA 

STRUCTURAL

SCELLANEOUS
DDLE STRIP
AR SIDE
DMINAL

LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT MASONRY MAXIMUM IN CONTRACT
TO SCALE
SER
CENTER

YVINYLCHLORIDE

NDS

NDS PER SQUARE FOOT

NDS PER SQUARE INCH

CAST

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MID-CONNECTICUT PROJECT MSW FLOOR REPAIR

(1,000 ENGTH VEL

LOAD

IGH POINT
IGH STRENGTH BOLT
ORIZONTAL, HORIZONTALLY
ICH OR INCHES
ICLUDE, INCLUDING INSIDE I

NERAL CON

NTRACTOR

MAXIM ROAD HARTFORD, CT

ELD STRENGTH

RKING LINE

DATE: PROJECT NO: 36937394 DRAWN BY: CHECKED 10/24/07 BY: PJG M M M

**ABBREVIATIONS** GENERAL NOTES CADD

FILE:

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