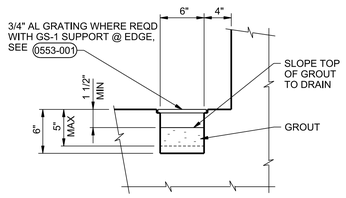


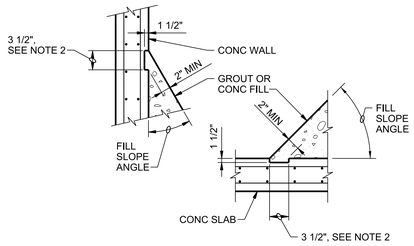
NOTES:

1. PROVIDE GRATING WHERE GUTTER CROSSES WALKWAY OR WORKING AREAS.
2. WHERE TRENCH IS ADJACENT TO WALL DO NOT PROVIDE GRATING UNLESS SPECIFICALLY SHOWN.

FORMED CONCRETE TRENCH

NTS

0330-077



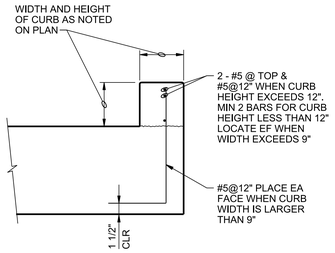
NOTES:

1. PROVIDE KEY FOR ALL FILL WHERE FILL SLOPE ANGLE TO WALL OR SLAB IS LESS THAN 45 DEGREES.
2. LENGTHEN 3 1/2" BLOCKOUT AS REQUIRED TO MAINTAIN 2" MINIMUM THICKNESS OF GROUT OR CONCRETE FILL.

CONC OR GROUT FILL KEY

NTS

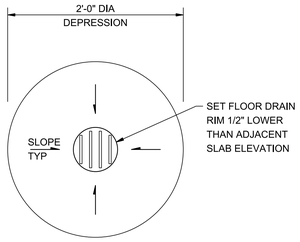
0330-078



CONCRETE CURB

NTS

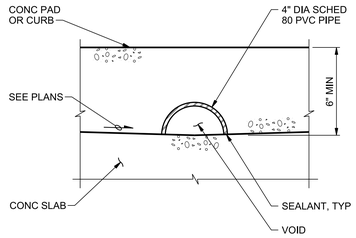
0330-080



FLOOR DRAIN

NTS

0330-082



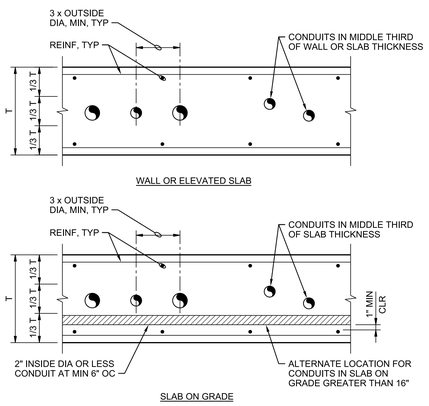
NOTE:

ANCHOR IN PLACE WITH SST STRAPPING AND ADHESIVE ANCHORS AS REQUIRED.

DRAINAGE BLOCKOUT

NTS

0330-083



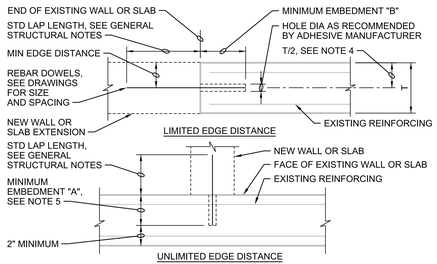
NOTES:

1. AT EXIT OR ENTRY TO SLAB, REINFORCE OPENINGS CREATED BY MULTIPLE CONDUITS PER 0330-001.
2. FOR SHORT SECTIONS OF ELEMENTS, SUCH AS WALL PIERS, PLACE CONDUITS AS DIRECTED BY ENGINEER.

CONDUIT IN STRUCTURAL CONCRETE

NTS

0330-084



DOWEL SIZE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT "A"	MINIMUM EMBEDMENT "B"
#3	2 1/2"	5"	8"
#4	3 1/2"	7"	11"
#5	4"	8"	13"
#6	5"	10 1/2"	16"
#7	6"	12 1/2"	20"
#8	7"	14"	22"
#9	7 1/2"	15"	24"

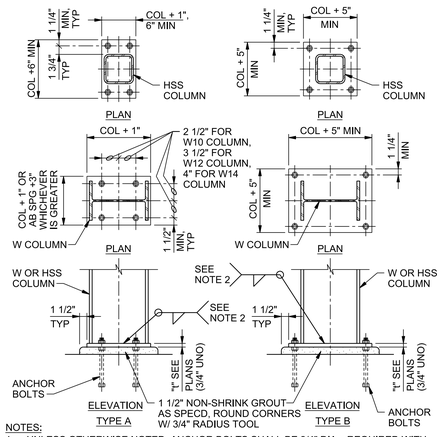
NOTES:

1. CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 03 63 00, CONCRETE DOWELING.
2. FOLLOW ADHESIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
3. USE MINIMUM EMBEDMENTS SHOWN, EXCEPT USE MANUFACTURER'S MINIMUM RECOMMENDED EMBEDMENT IF GREATER.
4. LOCATE DOWELS CENTERED IN WALL OR SLAB UNLESS OTHERWISE NOTED ON DRAWINGS. WHERE 2 ROWS OF DOWELS INDICATED, STAGGER SPACING & LOCATE ALTERNATING DOWELS AT MINIMUM EDGE DISTANCE FROM OPPOSITE FACES.
5. PROVIDE MINIMUM EMBEDMENT "A" SHOWN IN TABLE UNLESS SHORTER EMBEDMENT DEPTH IS CALLED OUT ON DRAWINGS.

ADHESIVE DOWEL

NTS

0330-105



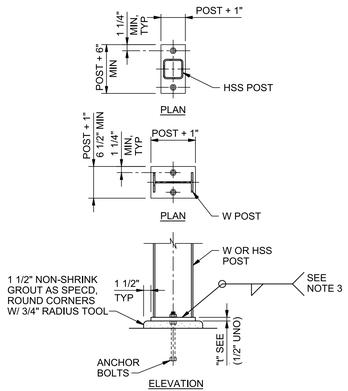
NOTES:

1. UNLESS OTHERWISE NOTED, ANCHOR BOLTS SHALL BE 3/4" DIA x REQUIRED WITH LEVELING NUTS AND 1'-0" MINIMUM EMBED AND BASEPLATES SHALL BE CENTERED ON COLUMN.
2. WELD SIZE SHALL BE DETERMINED BY THE THICKEST MEMBER JOINED; MINIMUM WELD SIZE SHALL BE 3/16" FILLET FOR MATERIAL THICKNESSES UP TO AND INCLUDING 1/2", 1/4" FILLET FOR THICKNESSES OVER 1/2" TO 3/4", AND 5/16" FILLET FOR MATERIAL THICKNESSES OVER 3/4". ALL WELDS SHALL BE SINGLE-PASS WELDS.

COLUMN BASE - STEEL

NTS

0512-001



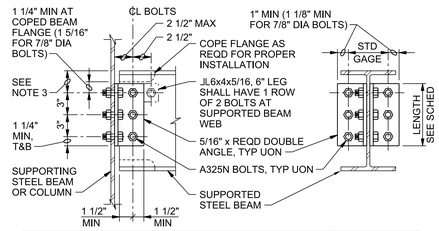
NOTES:

1. UNLESS OTHERWISE NOTED, ANCHOR BOLTS SHALL BE 3/4" DIA x REQUIRED WITH LEVELING NUTS AND 1'-0" MINIMUM EMBED AND BASEPLATES SHALL BE CENTERED ON POSTS.
2. USE OF 2 - BOLT STEEL POST BASEPLATE ANCHORAGE DETAIL SHOWN SHALL BE LIMITED TO STEEL SUPPORT MEMBERS WEIGHING LESS THAN 300 LBS IN ACCORDANCE WITH OSHA STANDARDS.
3. WELD SIZE SHALL BE DETERMINED BY THE THICKEST MEMBER JOINED; MINIMUM WELD SIZE SHALL BE 3/16" FILLET FOR MATERIAL THICKNESSES UP TO AND INCLUDING 1/2", 1/4" FILLET FOR THICKNESSES OVER 1/2" TO 3/4", AND 5/16" FILLET FOR MATERIAL THICKNESSES OVER 3/4". ALL WELDS SHALL BE SINGLE-PASS WELDS.

POST BASE - STEEL

NTS

0512-002



NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS	BOLT DIA, INCHES	DOUBLE ANGLE, LENGTH, INCHES	COMMENTS
36	10	7/8"	2'-6"	ANGLE THK = 3/8"
33	9	7/8"	2'-3"	ANGLE THK = 3/8"
30	8	7/8"	2'-0"	ANGLE THK = 3/8"
27	7	3/4"	1'-8 1/2"	-
24	6	3/4"	1'-5 1/2"	-
21	5	3/4"	1'-2 1/2"	-
16-18	4	3/4"	0'-11 1/2"	-
12-15	3	3/4"	0'-8 1/2"	-
8-10	2	3/4"	0'-5 1/2"	-
6	1	3/4"	0'-3"	JL 6"x4"x5/16"
4	1	3/4"	0'-2 1/2"	JL 6"x4"x5/16"

NOTES:

1. ALL BEAM FRAMING CONNECTIONS SHALL CONFORM TO THIS DETAIL UNLESS SPECIFICALLY NOTED OTHERWISE OR APPROVED IN WRITING BY THE ENGINEER.
2. PROVIDE ADDITIONAL 1 1/2" LENGTH TO DOUBLE ANGLE FOR STAGGERED BOLT CONNECTIONS WHEN REQUIRED OR USED.
3. DIMENSION SHALL BE 3" UNLESS OTHERWISE REQUIRED FOR PROPER FABRICATION.

TYPICAL BEAM CONNECTION - STEEL

NTS

0512-020

THIS DRAWING IS LOANED FOR SOLE USE OF THE INTENDED RECIPIENT AND ONLY FOR THE LIMITED PURPOSES FOR WHICH IT WAS PROVIDED. USE BY OTHER ENTITIES OR FOR OTHER PURPOSES IS PROHIBITED AND AT THE USER'S OWN RISK. DRAWINGS ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING RECIPIENT.

PART	REV	DESCRIPTION	DRW	CHKR	DE	DVR	DM	DATE	PE	DATE
	0	ISSUED FOR CONSTRUCTION	RM	AF	HE		LE	06/2017		

REVISION OR ISSUE PURPOSE — REVISION APPROVALS

SQUAD CHECK: WE AR CV ST HV EM FP PD EE IE M NP

RPE: Teresa J. Pierce, P.E. — STATE OF TENNESSEE — 6/20/17

DRAWING APPROVALS		DATE
DRW	R MARKEN	06/16/17
CHKR	A FIRTH	06/16/17
DE	H ELLIOTT	06/16/17
DVR		
DM	L ELLIS	06/16/17

REV. DATE

UCOR URS | CH2M Oak Ridge LLC

OF200 Mercury Treatment Facility

Designed by URS|CH2M Oak Ridge LLC (UCOR) for the Department of Energy
Oak Ridge Office of Environmental Management
under U. S. Government contract DE-SC-0004645

Y-12 National Security Complex managed and operated by Consolidated Nuclear Security, LLC for the Department of Energy under U.S. Government contract DE-NA0001942 • Oak Ridge, Tennessee •

PROJECT NAME:
OF200 MERCURY TREATMENT FACILITY
STRUCTURAL
STANDARD DETAILS - SHEET 6 OF 12

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	S	DT	X	NC	FAC	AR	E	9410-02	S	U

SH.	OF	TYPE		PART	REV
6	12	DD	S941002-F-0050	000	0

662886

ISSUED FOR CONSTRUCTION

6/22/2017 11:29:16 AM
S941002-F-0050.dgn