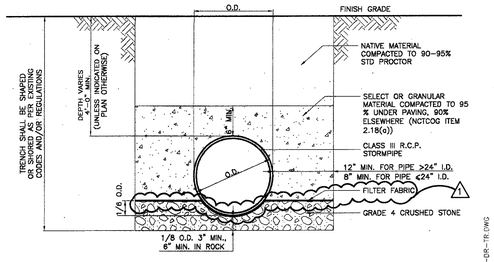
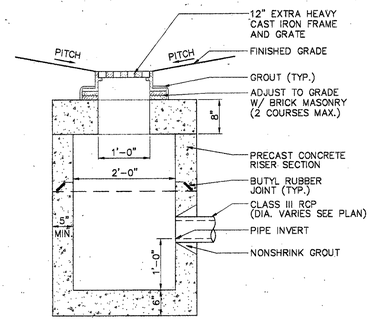
STORM SEWER NOTES:

1. THE FLOOR OF THE EXCAVATION FOR STORM DRAIN STRUCTURE (CATCH BASIN, AREA DRAIN, MANHOLE) MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.
2. A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR, IN LIEU OF THIS, AT LEAST 6 INCHES OF 2 SACKS CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED-SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE DRY.
3. AFTER PIPE HAS BEEN LAID ON PROPER BEDDING, BACKFILLING IS TO COMMENCE WITH 8 INCHES MAXIMUM LOOSE LIFTS MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR UNDER ROADWAY OR 12 INCHES MAXIMUM LOOSE LIFT BEHIND CURB. MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 4 INCHES IN DIAMETER.
4. PRECAST INLETS MUST BE APPROVED BY THE CITY.
5. CONCRETE TO BE MINIMUM 4,200 P.S.I.
6. LOCKING DEVICE IS REQUIRED ON ALL STORM SEWER LIDS.
7. "NO DUMPING" WARNING PLAQUE TO BE INSTALLED ON ALL STANDARD AND RECESS INLETS.
8. CONCRETE CAST-IN-PLACE INLETS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,200 P.S.I. @ 28 DAYS.
9. EXISTING STORM SEWER PIPE AND/OR LATERALS SHALL BE LOCATED PRIOR TO SETTING OF CONSTRUCTION INLET BOXES. IF ADJUSTMENT IN GRADE OF LATERAL IS REQUIRED, A REVISED DESIGN BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.
10. REINFORCED CONCRETE PIPE CLASS III MINIMUM FOR ALL STORM SEWER PIPE. ⚠1
11. WHERE GRANULAR MATERIAL IS USED FOR EMBEDMENT IN UTILITY TRENCHES, A CLAY PLUG IS RECOMMENDED AS A REPLACEMENT FOR THE GRANULAR EMBEDMENT AT THE LOCATION WHERE THE CITY LINE IS LOCATED, AT THE LOCATION WHERE THE UTILITY ENTERS THE STRUCTURE, AND AT OTHER CONNECTIONS. THE INTENT IS TO STOP ANY FREE MOISTURE FROM PASSING THROUGH THE GRANULAR EMBEDMENT AND ENTERING THE SOIL BENEATH THE STRUCTURE.

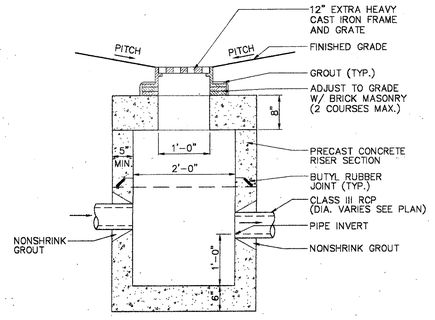


1 STORM DRAIN TRENCH (CLASS C EMBEDMENT FOR RCP PIPE)
NTS

STRM-DR-TR.DWG



2 PRECAST CONCRETE AREA DRAIN (TYPE A)
SCALE: NTS



3 PRECAST CONCRETE AREA DRAIN (TYPE B)
SCALE: NTS

AREADRN-TYPEA

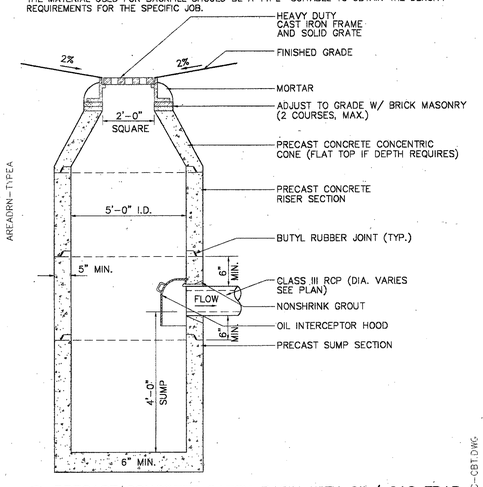
AREADRN-TYPEB

NOTES:

THE FLOOR EXCAVATION FOR CATCH BASIN, AREA DRAIN & DMH MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.

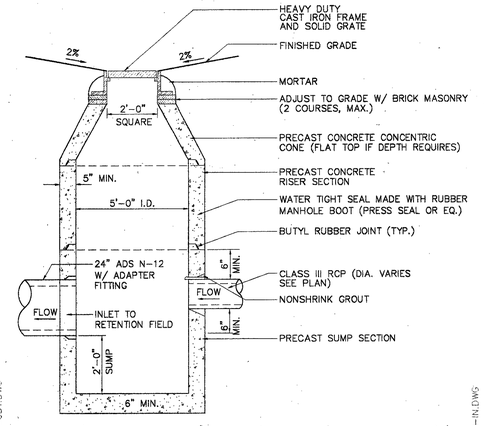
A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR LIEU OF THIS. AT LEAST 6 INCHES OF 2-SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED-SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.

AFTER CASIN HAS BEEN INSTALLED ON THE PREPARE BEDDING, THE BACKFILL MATERIAL, WHICH IS FREE FLOWING AND CLEAR OF ROCKS, IN EXCESS OF 4" DIAMETER AND OTHER LUMPS WHICH WOULD PROHIBIT PROPER COMPACTION, SHALL BE COMMENCED IN LIFTS OF NO MORE THAN 18". THE MATERIAL USED FOR BACKFILL SHOULD BE A TYPE SUITABLE TO OBTAIN THE DENSITY REQUIREMENTS FOR THE SPECIFIC JOB.



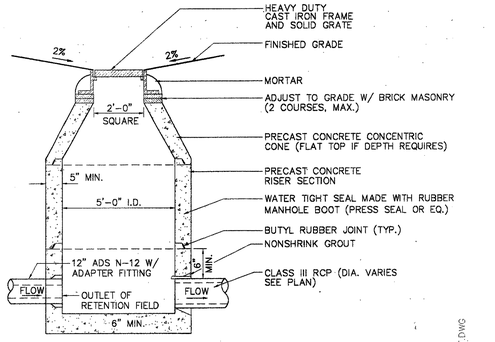
4 PRECAST CONCRETE CATCH BASIN WITH OIL/ GAS TRAP
SCALE: NTS

PCC-CBT.DWG



5 PRECAST DRAINAGE MANHOLE (INLET TO RETENTION FIELD)
SCALE: NTS

PDM-IN.DWG



6 PRECAST DRAINAGE MANHOLE (OUTLET OF RETENTION FIELD)
SCALE: NTS

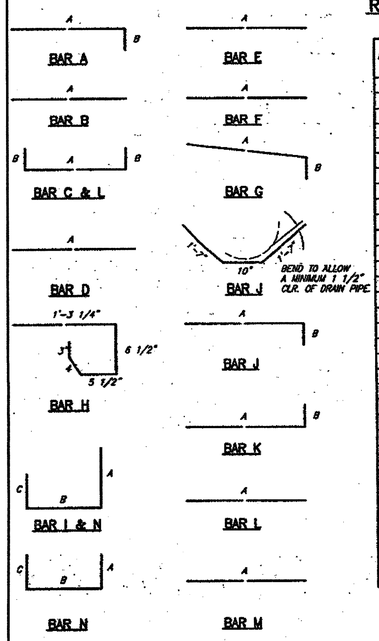
PDM-OUT.DWG

REINFORCING STEEL SCHEDULE

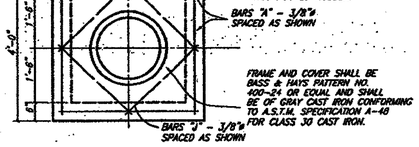
DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REQ'D	BAR DIMENSIONS A	B	C
4	A	3	6	3'-2"	0'-3"	–
	B	3	1	2'-10"	–	–
	C	4	15	4'-8"	0'-6"	–
	D	4	5	4'-8"	–	–
	F	4	1	3'-2"	–	–
	G	3	5	2'-0"	1'-3"	–
	H	3	6	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
6	A	3	9	3'-2"	0'-3"	–
	B	3	1	4'-10"	–	–
	C	4	15	6'-8"	0'-6"	–
	D	4	5	4'-8"	–	–
	F	4	1	3'-2"	–	–
	G	3	5	2'-0"	1'-3"	–
	H	3	9	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
8	A	3	12	3'-2"	0'-3"	–
	B	4	1	6'-10"	–	–
	C	4	15	8'-8"	0'-6"	–
	D	4	5	4'-8"	–	–
	F	4	1	3'-2"	–	–
	G	3	5	2'-0"	1'-3"	–
	H	3	12	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
10	A	3	13	3'-2"	0'-3"	–
	B	3	2	8'-10"	–	–
	C	4	16	10'-8"	0'-6"	–
	D	4	4	4'-8"	–	–
	E	5	6	10'-8"	–	–
	G	3	5	2'-0"	1'-3"	–
	H	3	14	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"
	L	4	5	4'-3"	–	–

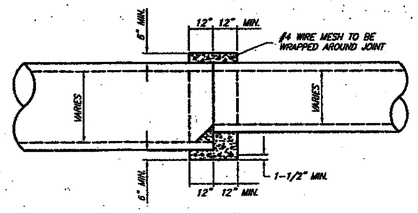
* SEE DIAGRAM FOR DIMENSIONS. 4', 6', 8' AND 10' INLETS



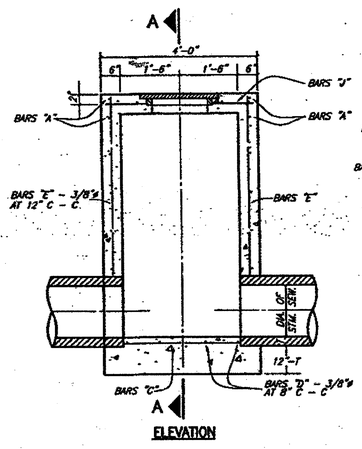
BAR DIAGRAMS



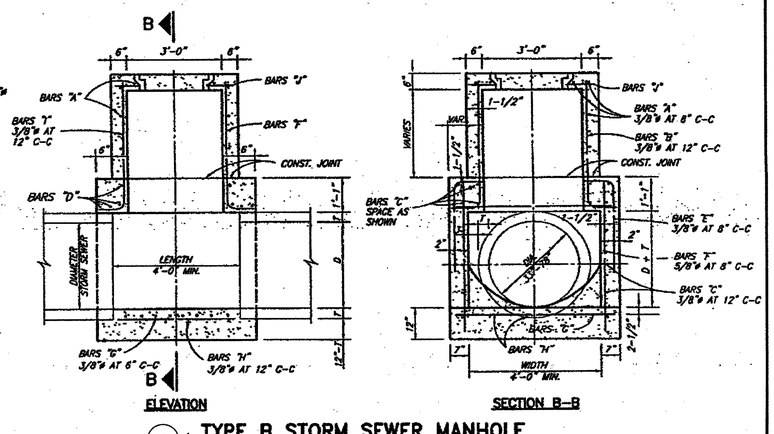
TOP PLAN
TYPE A & TYPE B
STORM SEWER MANHOLE



DETAIL OF CONCRETE COLLAR FOR R.C.P. CONNECTIONS
SCALE: N.T.S.



7 STORM SEWER TYPE A MANHOLE
MAX. PIPE SIZE 30"



8 TYPE B STORM SEWER MANHOLE
MAX. PIPE SIZE 78"

SASAKI
Interdisciplinary Design
64 Pleasant Street, Watertown, Massachusetts 02472 USA
t 617 926 3300 f 617 924 2748 w www.sasaki.com

No.	Description	Date
⚠1	ADDENDUM #2	10-21-02
	ISSUED FOR CONSTRUCTION	09-30-02

DWG ISSUE & REVISION HISTORY

Stamp

STATE OF TEXAS
STEPHEN E. HAMWEY
57911
REGISTERED PROFESSIONAL ENGINEER
10/21/02

Project Title:

ADDISON ARTS & EVENTS DISTRICT
ADDISON, TEXAS

Drawing Title:

SITE DETAILS DRAINAGE

Project No. 14516.00 Scale: AS NOTED
Drawn By: SJM
Checked By: TC
Approved By: SEH
Date: September 30, 2002

Drawing No.

C8-7