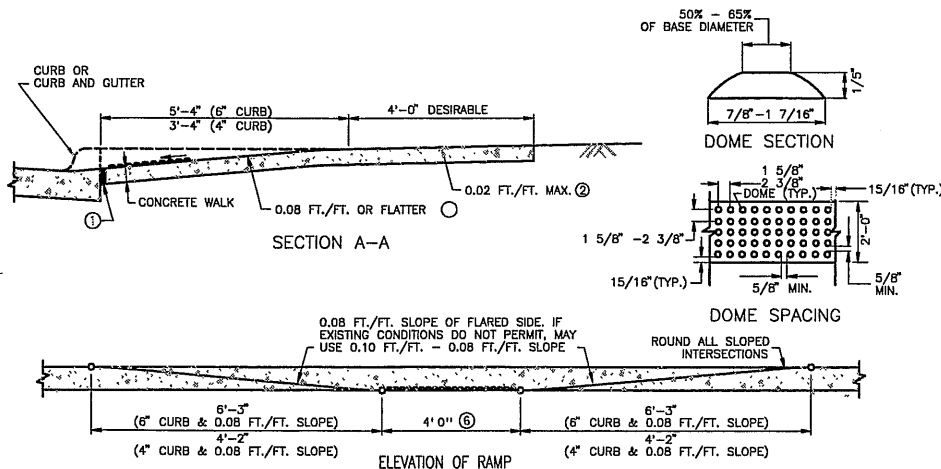
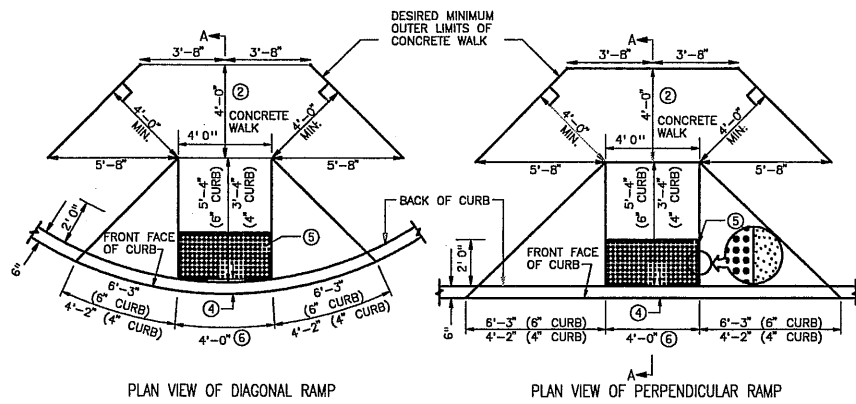


LEGEND

- PROPERTY LINE
- FOUND PROPERTY CORNER
- MANHOLE
- ⚡ POWER POLE SIGN
- ⊙ TREE
- WATER MAIN LINE
- SANITARY LINE



PEDESTRIAN RAMP

NOTES:

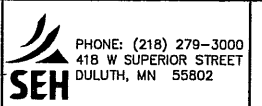
- 1) 1/2 INCH PREFORMED JOINT FILLER MATERIAL, ASHTO M 213
- 2) WHEN POSSIBLE, PROVIDE A PATH OF TRAVEL 4'-0" WIDE BEHIND THE PEDESTRIAN RAMP. A RELATIVELY FLAT 4' x 4' LANDING WILL ALLOW WHEELCHAIRS TO NAVIGATE AROUND THE PEDESTRIAN RAMP.
- 3) WHEN A MEDIAN IS NOT WIDE ENOUGH FOR TWO PEDESTRIAN RAMPS AND A 48" LANDING BETWEEN THEM, THE PEDESTRIAN CROSSING SHALL BE CUT THROUGH THE MEDIAN AT STREET LEVEL.
- 4) 6" TO 8" IS THE REQUIRED OFFSET OF THE DETECTABLE WARNINGS/ TRUNCATED DOME AREA FROM THE FRONT FACE OF CURB, OR PLACE THE DETECTABLE WARNINGS AT THE BACK OF CURB.
- 5) ADA REQUIRED TRUNCATED DOME AREA SHALL BE 2'-0" MIN. IN DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH (3'-0" OR 4'-0" TYP.) OF THE CURB RAMP. THIS 2'-0" BY 3'-0" OR 4'-0" WIDTH (TYP.) TRUNCATED DOME AREA SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE. THE ENTIRE TRUNCATED DOME AREA SHALL BE A LIGHT COLOR (LIGHT GRAY, WHITE, OR YELLOW) WHEN THE ADJACENT SIDEWALK IS A DARK COLOR. THE ENTIRE TRUNCATED DOME AREA SHALL BE A DARK COLOR (DARK GRAY) WHEN THE ADJACENT SIDEWALK IS A "WHITE" OR LIGHT GRAY CEMENT COLOR.
- 6) 4'-0" FOR NEW CONSTRUCTION 3'-0" ALLOWED FOR RETROFITS OR PRESERVATION PROJECTS.

DRAWN BY: MR
 DESIGNER: MS
 CHECKED BY: SW
 DESIGN TEAM

| NO. | BY | DATE | REVISIONS |
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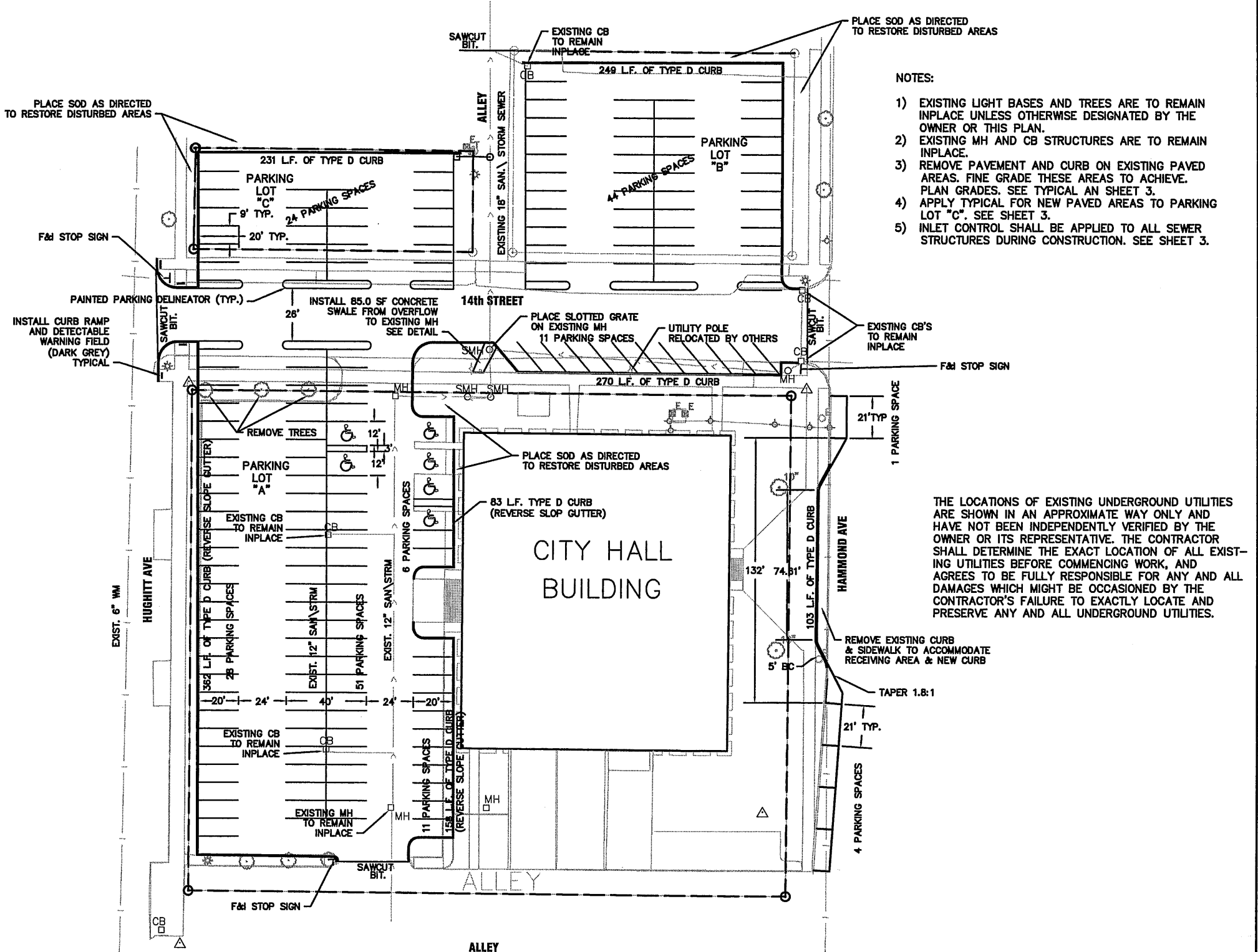
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
 SIGNATURE: *Scott S. Weandy* DATE: 7/19/05
 PRINTED NAME: SCOTT S. WEANDY LIC. NO. E-27245



A&L PROPERTIES
 CITY HALL PARKING LOT
 SUPERIOR, WISCONSIN

FILE NO. ALPRO0504.00
 DATE 8/23/05

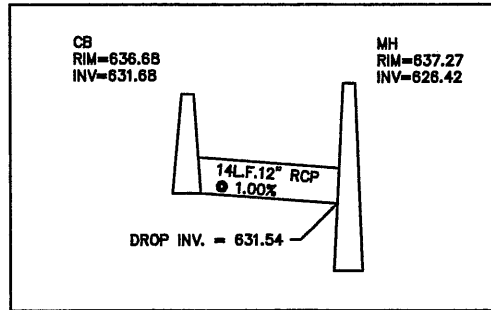
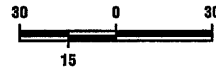
SITE PLAN
 1
 5



NOTES:

- 1) EXISTING LIGHT BASES AND TREES ARE TO REMAIN INPLACE UNLESS OTHERWISE DESIGNATED BY THE OWNER OR THIS PLAN.
- 2) EXISTING MH AND CB STRUCTURES ARE TO REMAIN INPLACE.
- 3) REMOVE PAVEMENT AND CURB ON EXISTING PAVED AREAS. FINE GRADE THESE AREAS TO ACHIEVE PLAN GRADES. SEE TYPICAL AN SHEET 3.
- 4) APPLY TYPICAL FOR NEW PAVED AREAS TO PARKING LOT "C". SEE SHEET 3.
- 5) INLET CONTROL SHALL BE APPLIED TO ALL SEWER STRUCTURES DURING CONSTRUCTION. SEE SHEET 3.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

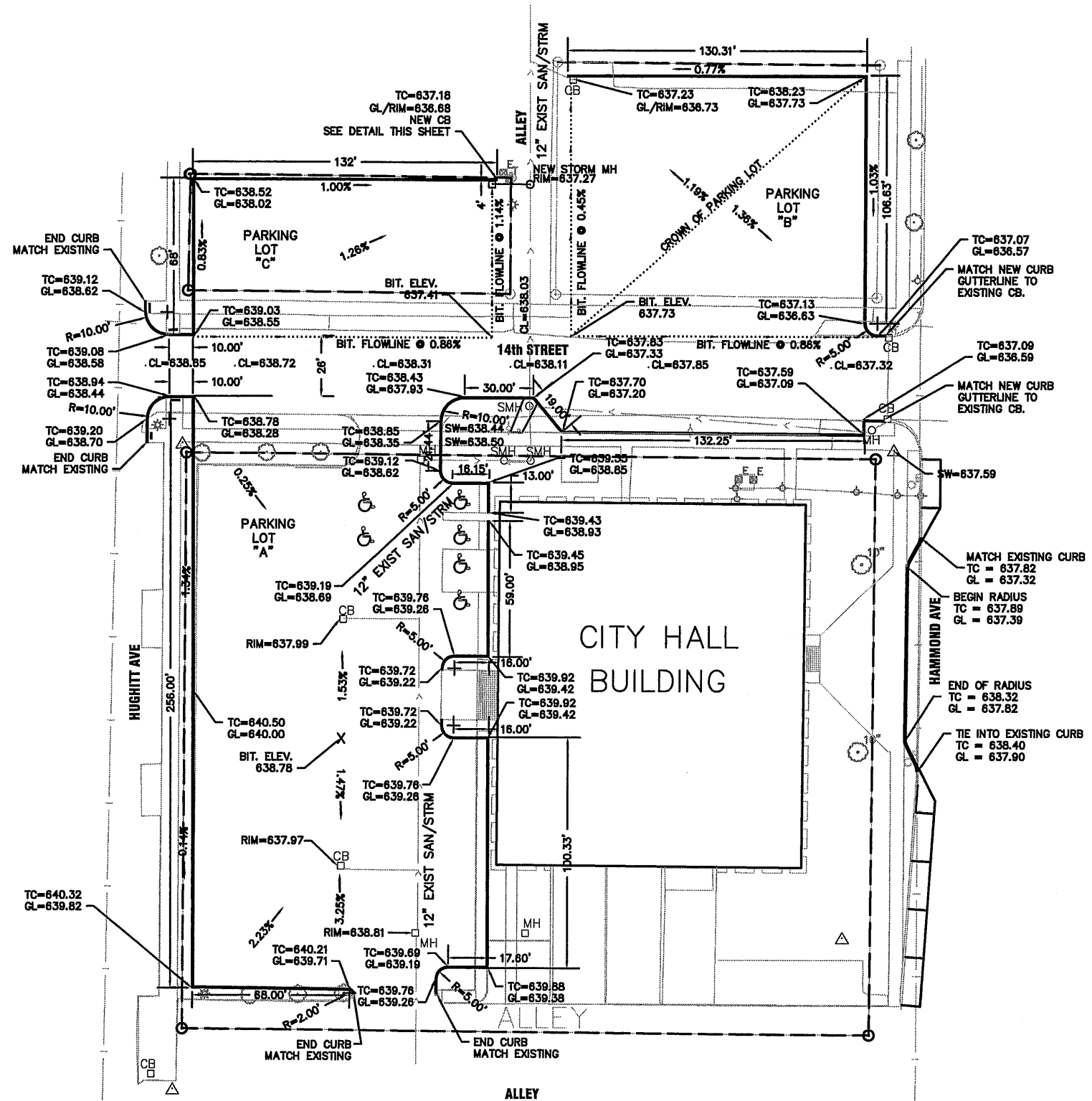


PARKING LOT C STORM SEWER DETAIL

LEGEND

- — — — — PROPERTY LINE
- FOUND PROPERTY CORNER
- MANHOLE
- ⚡ POWER POLE
- △ SIGN
- ☼ TREE
- — — — — WATER MAIN LINE
- — — — — SANITARY LINE

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

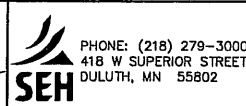


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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
 SIGNATURE: *Scott S. Weyandt* DATE: 9/19/05
 PRINTED NAME: SCOTT S. WEYANDT LIC. NO. E-27245

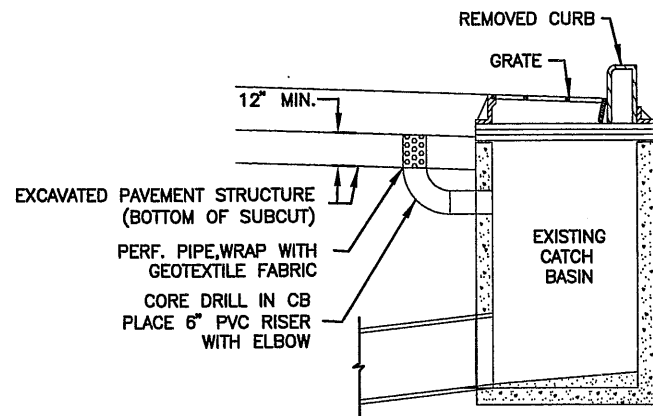


A&L PROPERTIES
 CITY HALL PARKING LOT
 SUPERIOR, WISCONSIN

GRADING PLAN

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| FILE NO. | ALPRO0504.00 |
| DATE | 8/23/05 |

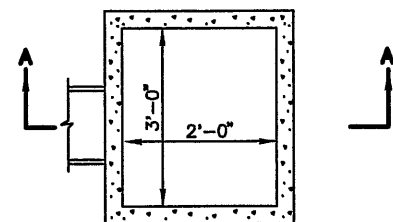
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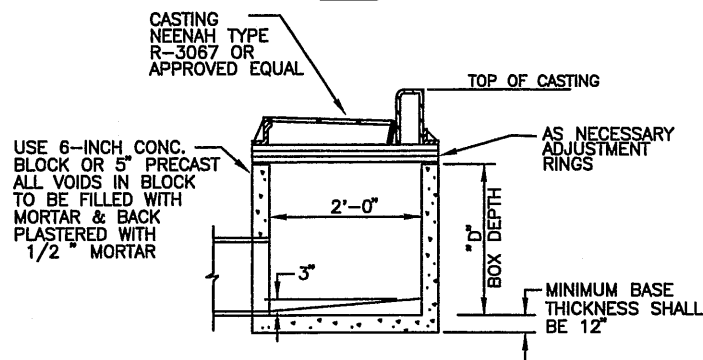
NOTES:

- 1) INSTALL PERFORATED PVC PIPE WRAPPED IN GEOTEXTILE FABRIC
- 2) THIS APPLICATION SHALL BE USED DURING EXCAVATION OF EXISTING PAVEMENT STRUCTURE UNTIL THE NEW CATCH BASIN STRUCTURES ARE IN PLACE. THE EXCAVATION MAY NOT BE DEWATERED BY PUMPING UNLESS APPROVED BY THE WISCONSIN DNR.
- 3) REMOVE PERF. PIPE AND BULKHEAD WITH BRICK AND MORTAR SUBSEQUENT TO PLACEMENT OF PERMANENT PAVEMENT.

EXISTING STRUCTURE INLET PROTECTION

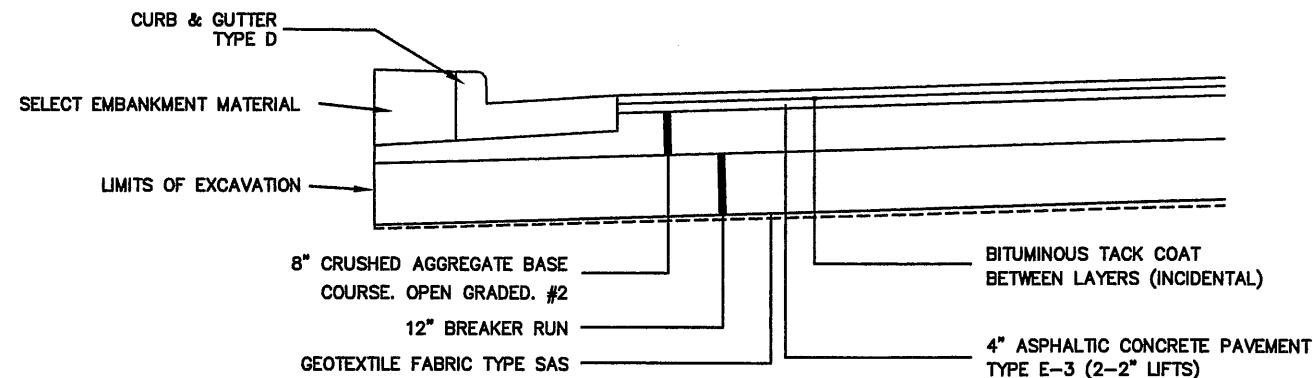


PLAN

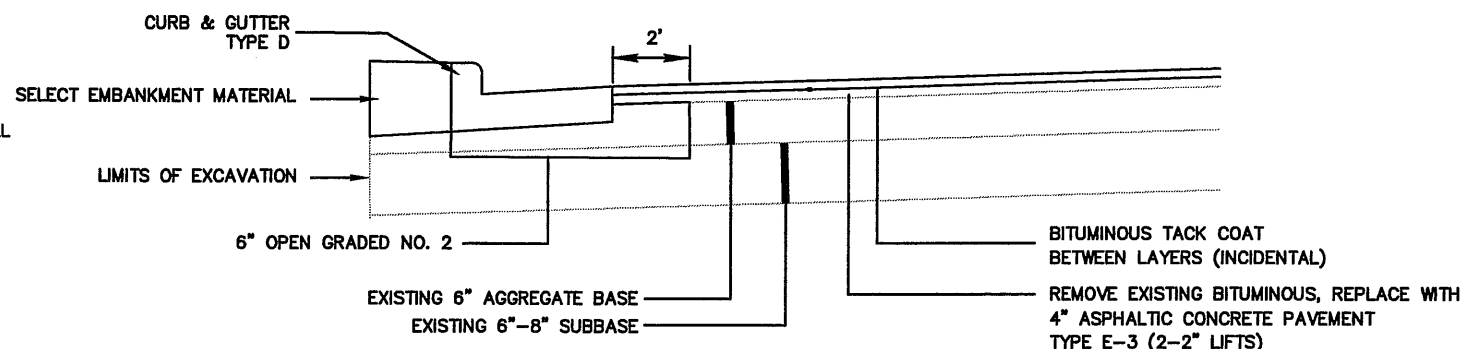


SECTION A-A

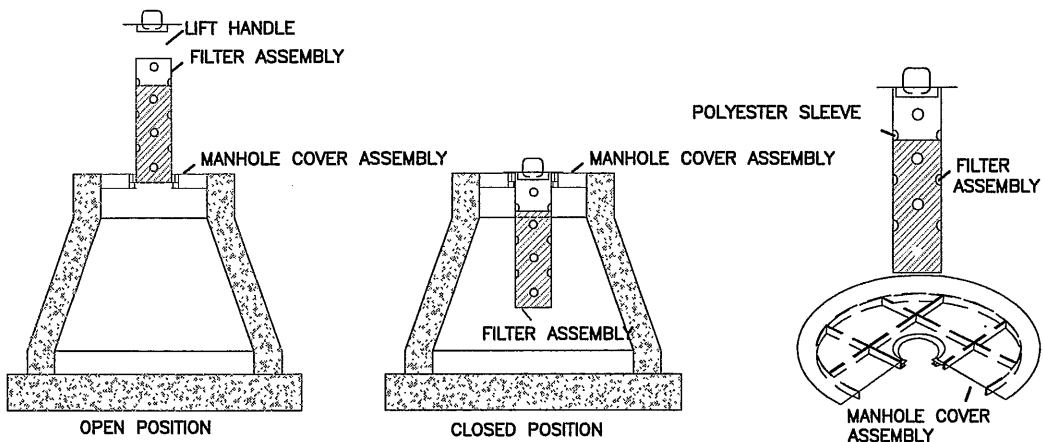
CURB INLET CATCH BASIN TYPE 1



TYPICAL PARKING LOT SECTION FOR NEW PAVED AREAS



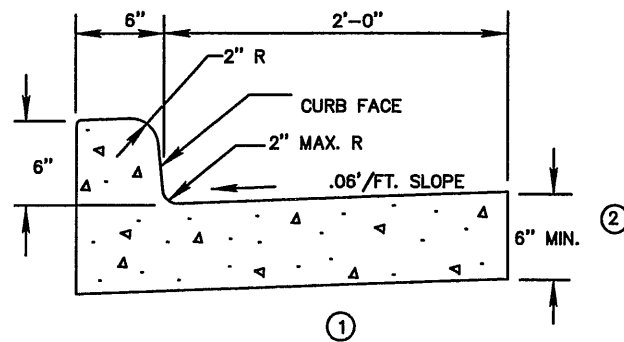
TYPICAL PARKING LOT SECTION FOR EXISTING PAVED AREAS



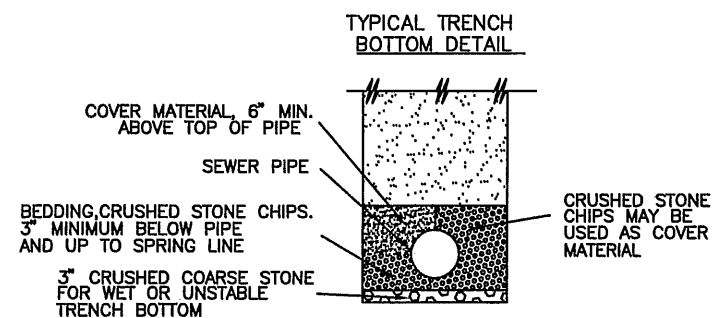
NOTES:

1. WIMCO ROAD DRAIN RD-27 SHOWN. FILTER ASSEMBLY MAY BE IN CLOSED POSITION DURING HOURS OF CONSTRUCTION OPERATIONS. FILTER SHALL BE IN THE OPEN POSITION DURING "OFF" HOURS TO ALLOW STORM WATER TO ENTER STRUCTURE
2. DEVICES SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING CATCH BASINS, DEVICES SHALL BE LEFT IN PLACE UNTIL CASTING ARE INSTALLED.
2. CAN ALSO USE ALTERNATE CATCH BASIN EROSION BARRIER (BARREL TYPE) BY ROYAL ANCHOR SYSTEMS.

INLET PROTECTION TYPE B



CURB TYPE D

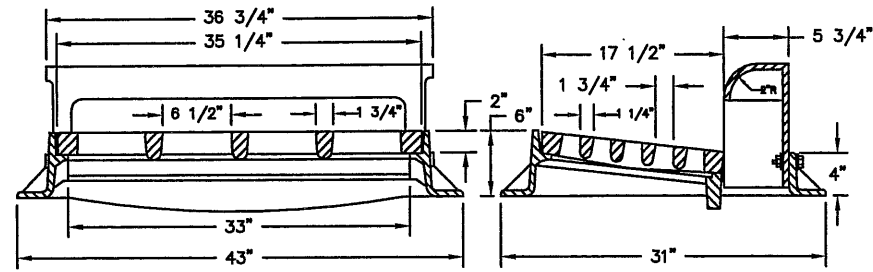


- NOTE:**
- 1) CLASS B PIPE EMBEDMENT SHALL BE INCIDENTAL TO ALL PIPE INSTALLATION
 - 2) REF: CITY SPECIFICATIONS OR SSWCW 3.2.6, 6.43.2, AND 6.43.3

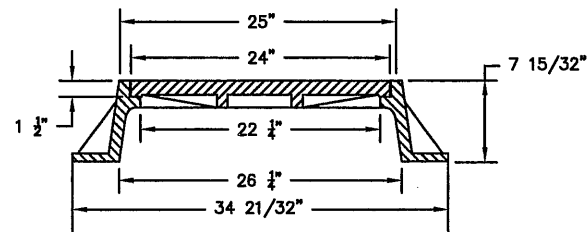
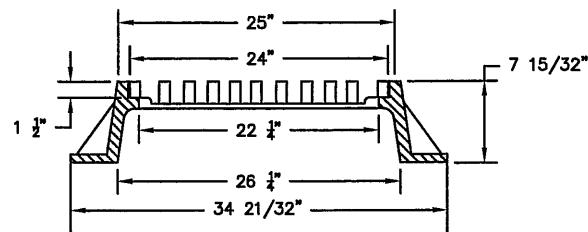
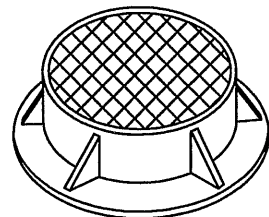
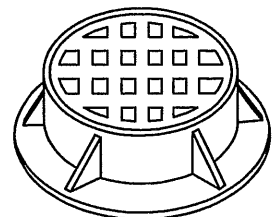
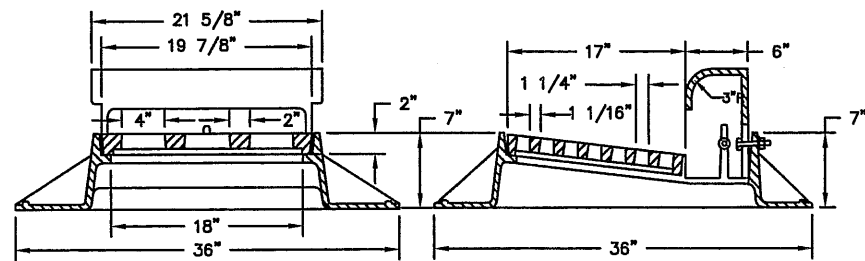
CLASS B PIPE EMBEDMENT

| DRAWN BY: MR DESIGNER: MS CHECKED BY: SW DESIGN TEAM | <table border="1"> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | NO. | BY | DATE | REVISIONS | | | | | ©SHORT ELLIOTT HENDRICKSON 2002. ANY USE OR REUSE OF THIS PLAN/DRAWING AND THE CORRESPONDING COMPUTER AIDED DESIGN/DRAFTING FILES WITHOUT THE EXPRESS WRITTEN CONSENT OF SEH, IS PROHIBITED. SEH SHALL NOT BE RESPONSIBLE FOR ANY UNAUTHORIZED USE OR REUSE OF THESE MATERIALS, OR DAMAGES RESULTING THEREFROM. | I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN. SIGNATURE: <i>[Signature]</i> DATE: 8/19/05 PRINTED NAME: SCOTT S. WEYAND LIC. NO. E-27245 | PHONE: (218) 279-3000 418 W SUPERIOR STREET DULUTH, MN 55802 | A&L PROPERTIES CITY HALL PARKING LOT SUPERIOR, WISCONSIN | DETAILS | FILE NO. ALPR00504.00 | 3 | DATE 8/23/05 | 5 |
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| NO. | BY | DATE | REVISIONS | | | | | | | | | | | | | | | |
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TYPICAL CURB INLET CASTING DIMENSIONS FOR RECTANGULAR STRUCTURES



TYPICAL CURB INLET CASTING DIMENSIONS FOR CIRCULAR STRUCTURES



TYPE "C"

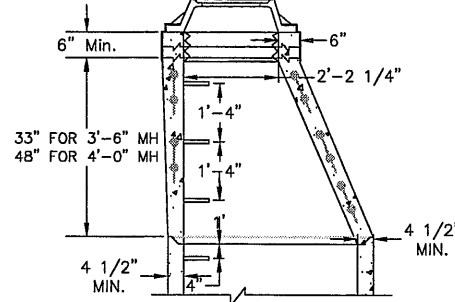
NEENAH R-2500 OR APPROVED EQUAL

MANHOLE CASTING DIMENSIONS

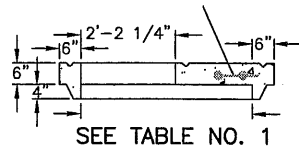
NEENAH R-1670 OR APPROVED EQUAL

TYPE I FRAME/CHIMNEY JOINT REQUIRED ON ALL SANITARY MANHOLES UNLESS OTHERWISE SPECIFIED. SONNEBORN HLM-5000-R ELASTOMERIC WATERPROOFING SEALER APPLIED TO EXTERIOR AND CRETEX INTERIOR CHIMNEY SEAL OR APPROVED EQUAL.

ELASTOMERIC SEAL



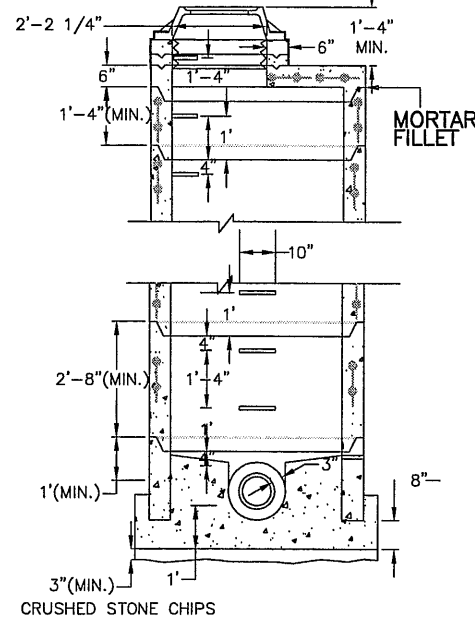
REINFORCING STEEL



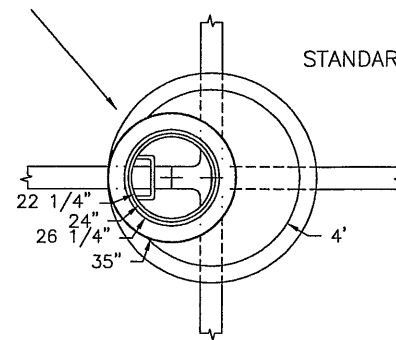
SEE TABLE NO. 1

THE STEPS, FRAME, AND COVER SHALL BE CENTERED OVER THE DISCHARGE PIPE.

ELASTOMERIC SEAL



STANDARD TOP VIEW



FLAT TOP SLAB MAY ONLY BE USED FOR 5'-0" AND 6'-0" DIA. MANHOLES AND WITH PERMISSION OF PROJECT ENGINEER OR WHERE SHOWN ON THE PLANS.

ADJUST FRAME TO GRADE WITH BRICK OR CONCRETE RINGS OF VARIABLE THICKNESS, MAXIMUM RING HEIGHT = 6", MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP. THE CHIMNEY SHALL BE CONSTRUCTED SO THAT AS FEW ADJUSTING RINGS AS POSSIBLE SHALL BE USED TO BRING MANHOLE TO GRADE.

CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING BUTYL RUBBER GASKETS. ALL JOINTS SHALL CONFORM TO ASTM-C443 VARIATIONS IN DIAMETER, DEFECTIVE OR DAMAGED ENDS, OR OTHER CONDITIONS WHICH, IN THE OPINION OF THE PROJECT ENGINEER, PREVENT MAKING A SATISFACTORY JOINT SHALL BE CONSIDERED CAUSE FOR REJECTION.

AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ INCH PER LINEAL FOOT.

SPACE BETWEEN PIPE AND PRECAST MANHOLE WALL TO BE FILLED WITH BRICK MORTARED IN PLACE EXCEPT THAT AN APPROVED FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS. THE ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE WALL SHALL BE FILLED WITH FLEXIBLE BUTYL RUBBER GASKET MATERIAL BELOW SURFACE OF BENCH SPRINGLINE.

3" MIN. CRUSHED STONE CHIPS UNDER CONCRETE BASE.

PRECAST BASE RISER SECTION WITH A SEPERATE PRECAST BASE SLAB SHALL NOT BE CONSIDERED GENERALLY ACCEPTABLE UNDER THIS SPECIFICATION.

THE FLOW CHANNEL THROUGH MANHOLES SHALL BE MADE TO CONFORM TO THE SHAPE AND SLOPE OF THE SEWERS AND SHALL EXTEND VERTICALLY FROM THE SPRINGLINE TO THE CROWN OF THE DISCHARGE PIPE.

BENCH SLOPE STORM MANHOLE 1" PER FOOT
SANITARY MANHOLE 2" PER FOOT

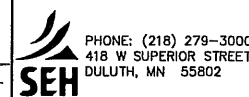
CLASS "D" CONCRETE, 12" MIN. BELOW BOTTOM OF PIPE

PRECAST MANHOLE (TYPE 1)

| | | | | |
|----------------|-----|----|------|-----------|
| DRAWN BY: MR | | | | |
| DESIGNER: MS | | | | |
| CHECKED BY: SW | | | | |
| DESIGN TEAM | NO. | BY | DATE | REVISIONS |

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SIGNATURE: *Scott S. Weyandt* DATE: 9/19/05
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A&L PROPERTIES
CITY HALL PARKING LOT
SUPERIOR, WISCONSIN

DETAILS

| | |
|--------------------------|---|
| FILE NO. ALPRO0504.00 | 4 |
| DATE 8/23/05 | 5 |

