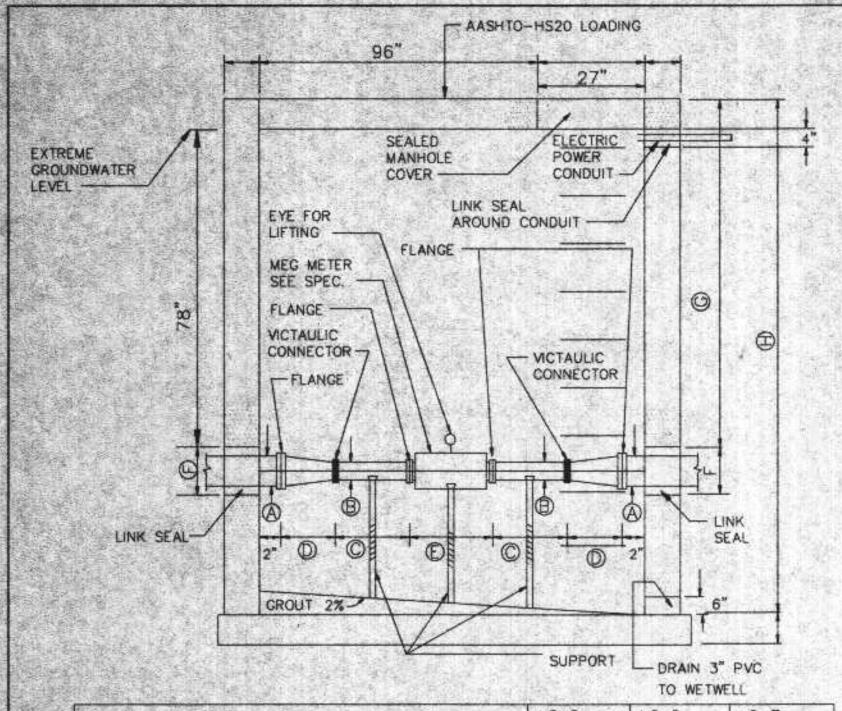


METER MANHOLE



	LS 5	LS 6	LS 7
LINK SEAL/FORCE MAIN OD/ID	10"/6"	10"/6"	8"/4"
LINK SEAL/CONDUIT OD/ID	8"/4"	8"/4"	8"/4"
LINK SEAL/DRAIN OD/ID	8"/4"	8"/4"	8"/4"
FORCE MAIN Ø , A	8"	8"	6"
MAG METER Ø , B	6"	6"	4"
MAG METER & . D	~12"-18"	~12"-18"	~12"-18"
ENLARGEMENT/REDUCER SMALL Ø, LARGE Ø	8"/6"	8"/6"	6"/4"
SMALL & PIPE &, C	18"	18"	12"
ENLARGEMENT/REDUCER &. (D)	11"	11"	9"
FORCE MAIN PENETRATION, OD (F)	10"	10"	8"
GRADE TO F.M. INVERT (C)	8'	6.15	6'
GRADE TO DRAIN INVERT (H)	9'	7.15	7'

NOTES:

EXTREME GROUNDWATER ELEVATION IS AT GRADE. EARTH COVER 0'-0".

DESIGN LOADING - AASHTO HS 20-44

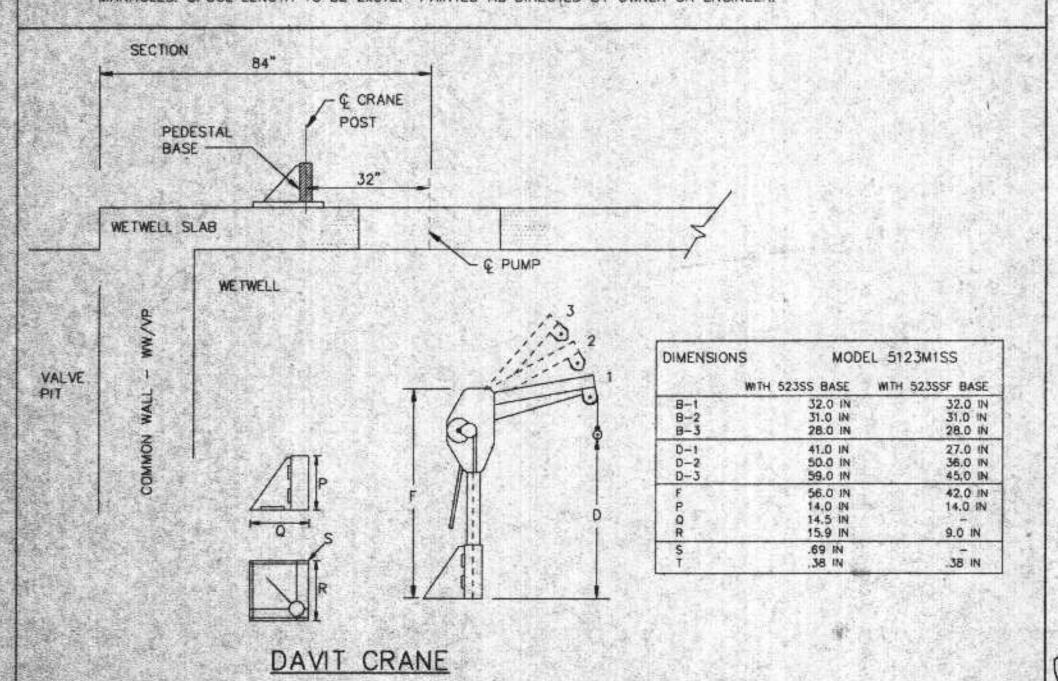
4. PLAN VIEW SHAPE = SQUARE OR CIRCULAR. S. STRUCTURE SHALL BE SEALED TO EXTERNAL WATER SOURCES.

6. D.I.P. SPOOL WITH VITAULIC TYPE ENDS TO BE PROVIDED AT ALL METER

(THERN PORTABLE DAVIT CRANE MODEL NO. 5123M1SS)

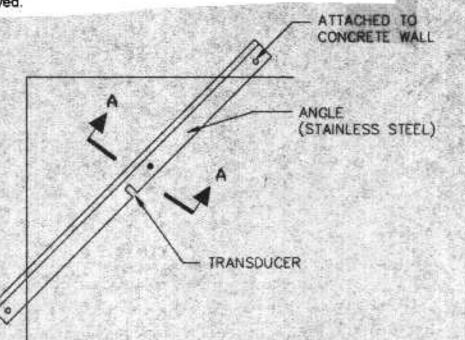
REVISIONS

MANHOLES. SPOOL LENGTH TO BE 2xC+E. PAINTED AS DIRECTED BY OWNER OR ENGINEER.



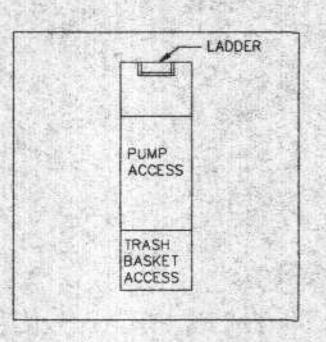
ULTRASONIC LEVEL METER

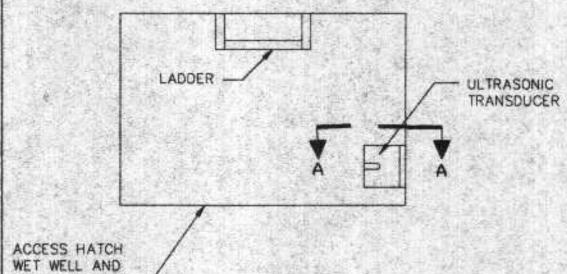
Supports to be 316 Grade L stainless steel Provide spare DIP to be available in each meter manhole for replacement of magnetic flow meter and pipe end pieces when



EXTERIOR BRACKET (STORAGE)

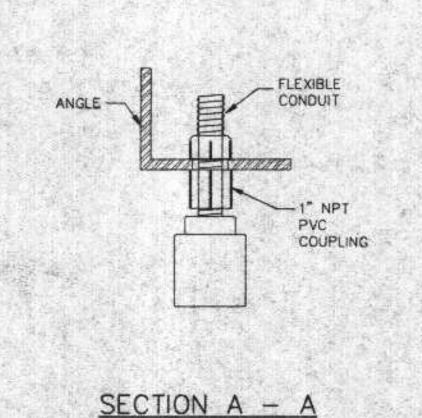
PLAN

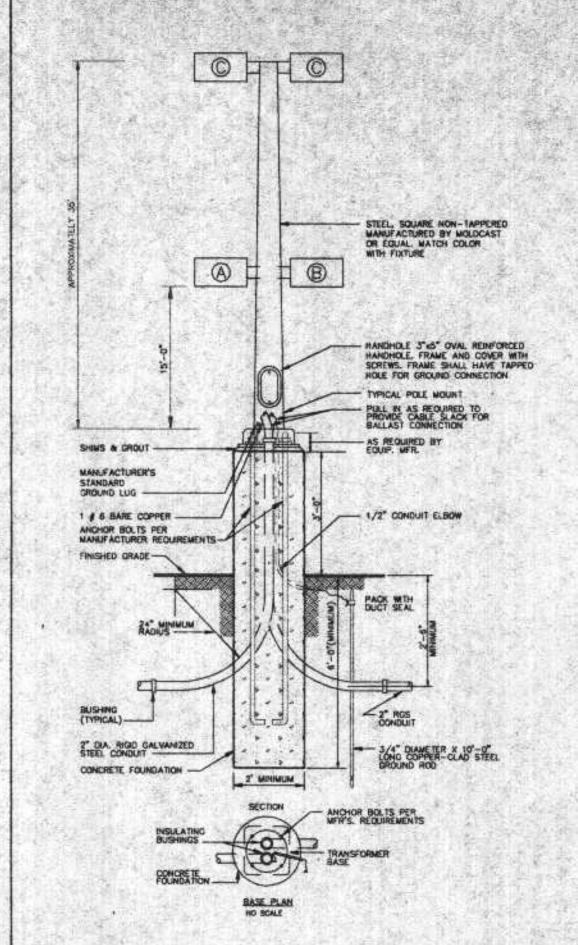




INTERIOR BRACKET (WET WELL)

LEVEL SENSORS





TYPICAL POLE FOUNDATION DETAIL

- 120 V, 20 Amp, GFCI, weatherproof duplex receptacle to be provided at base of all light poles. Receptacles to be switched at control panel.
- Switches to control yard lighting to be housed in control panel.

LIGHT POLE

HOUTING BOLE TYPE	1	EQUIPMENT REQUIREMENTS			
LIGHTING POLE TYPE	FIXTURE TYPE	QUANTITY	CONTROL		
	8	t	PHOTO CONTROL		
1	8	1	CONTROL PANEL INTERIOR SWITCH		
	0	2	CONTROL PANEL INTERIOR		
đ	0	2	CONTROL PANEL INTERIOR SWITCH		
	0	1	PHOTO CONTROL		
	®	1. +	CONTROL PANEL INTERIOR		
	©	3	CONTROL PANEL INTERIOR		

- 150 WATT HIGH PRESSURE SODIUM WITH PHOTO CONTROL. AND TYPE II REFLECTOR AS MANUFACTURED BY MOLDCAST MODEL NO. MF 1325-24-7-3-0-XX-PCR OR EQUAL.
- 400 WATT METAL HALIDE SWITCHED, WITH TYPE IX REFLECTOR AS MANUFACTURED BY MOLDCAST MODEL NO. MF 2441-24-7-3-0-XX
- 400 WATT HIGH PRESSURE SODIUM SWITCHED, WITH TYPE III REFLECTOR AS MANUFACTURED BY MOLDCAST MODEL NO. MF 2340-24-N-3-0-XX.
 - N = # OF FIXTURES REQUIRED AS DESCRIBED IN LIGHTING FIXTURE TYPE SCHEDULE.
 - XX = COLOR TO BE DETERMINED BY OWNER.
- 35 FEET SQUARE STEEL NON-TAPPERED AS MANUFACTURED BY MOLDCAST MODEL NO. S1635JB, COLOR TO BE DETERMINED BY OWNER.
- THE VOLTAGE FOR ALL FIXTURES SHALL BE 240 VOLT.
- SWITCHES MOUNTED IN CONTROL PANEL SHALL BE 20 AMP.
- MINIMUM WIRE SIZE SHALL BE #10 AWG, THHW. CALCULATE VOLTAGE DROP AND RESIZE WIRE AS NECESSARY.
- 4. INCLUDE ALL WIRE, CONDUIT, MOUNTING EQUIPMENT AND ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION.
- PRIOR TO ORDERING CONSULT WITH OWNER ON DIRECTION AND ANGLE OF FIXTURE MOUNTS.
- ALL POLES MUST BE FACTORY DRILLED FOR THE FIXTURES SPECIFIED.
- MODEL NO. WERE AS OF 6/96. VERIFY WITH MANUFACTURER PRIOR TO BIDDING.

SUSPENDED FROM

BRACKET- DETAIL

ULTRASONIC

TRANSDUCER-

FLOAT CABLES

TIE WRAPPED

TO STAINLESS

STEEL CABLE -

SIMILAR TO INTERIOR

(FLOAT TREE)

STEEL CABLE ATTACHED TO

POWER/SIGNAL CABLE

- STAINLESS STEEL CABLE

HIGH WATER ALARM FLOAT

- START LAG PUMP FLOAT

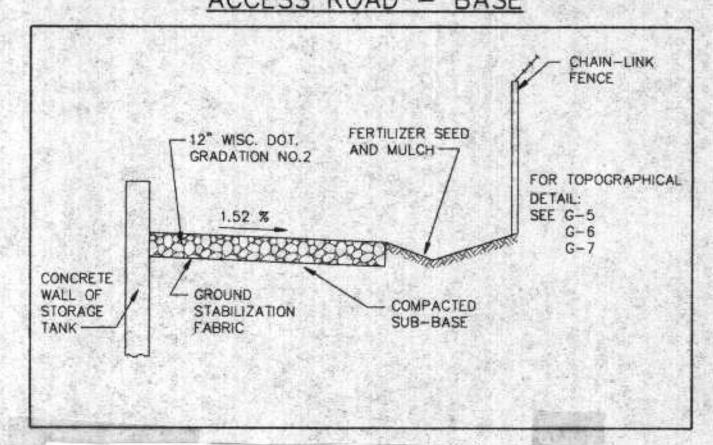
-START LEAD PUMP FLOAT

- STOP FLOAT

WETWELL FLOAT SUPPORT

- LOW LEVEL FLOAT

ACCESS ROAD - BASE



Sheet G-7:

- Remove davit crane drawing and information (see revised crane in Item 6 of Specifications above).
- Rename Ultrasonic Level Meter Drawing as Level Meters and modify Section A-A with the following:

Ultrasonic Level Meter Transducer Bracket/Assembly Notes:

All hardware and brackets to be stainless steel. ¼ " lip to be provided on bracket.

Float Tree Bracket/Assembly Notes:

- Float tree cable to be stainless steel and attached to 1/4 "
- stainless steel plate for placement on bracket. All hardware and brackets to be stainless steel.
- 1/4 " lip to be provided on bracket. Stainless steel handle for lifting of float system to be provided.
- Add following to meter manhole drawing:

CITY OF SUPERIOR, WISCONSIN DEPARTMENT OF PUBLIC WORKS

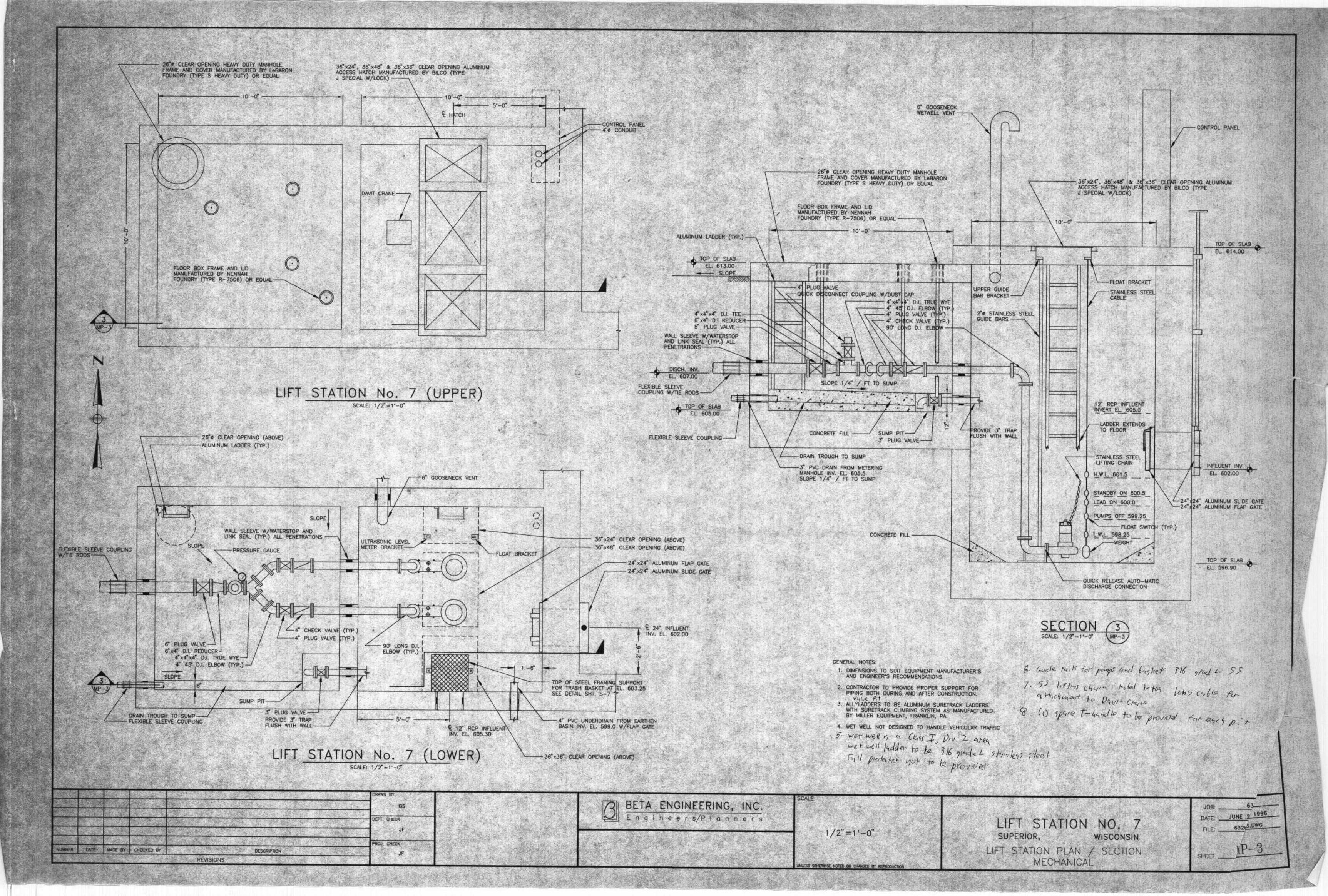
CONTRACT NO. 3 LIFE STATION & STORAGE IMPROVEMENTS

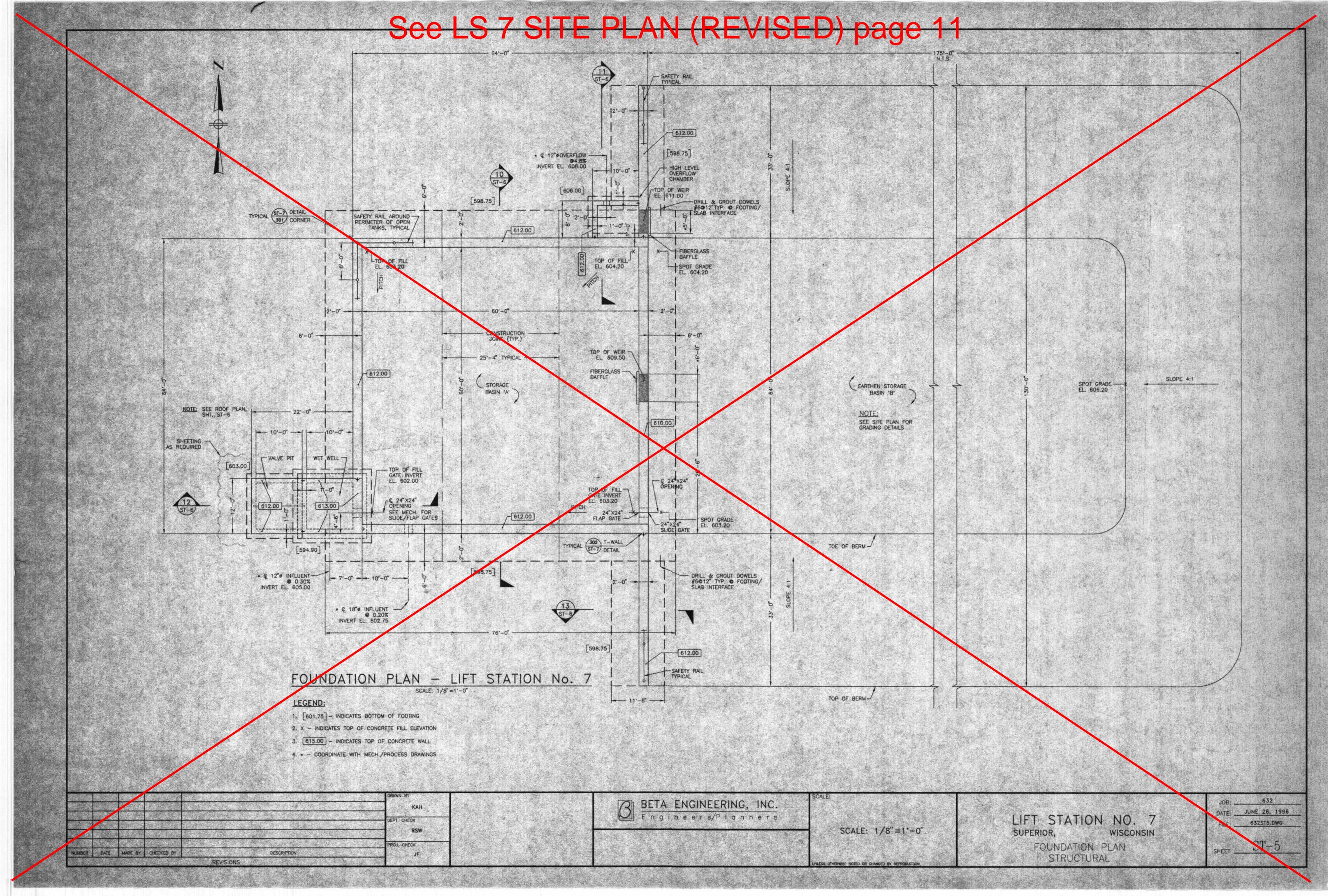
SHEET G-7

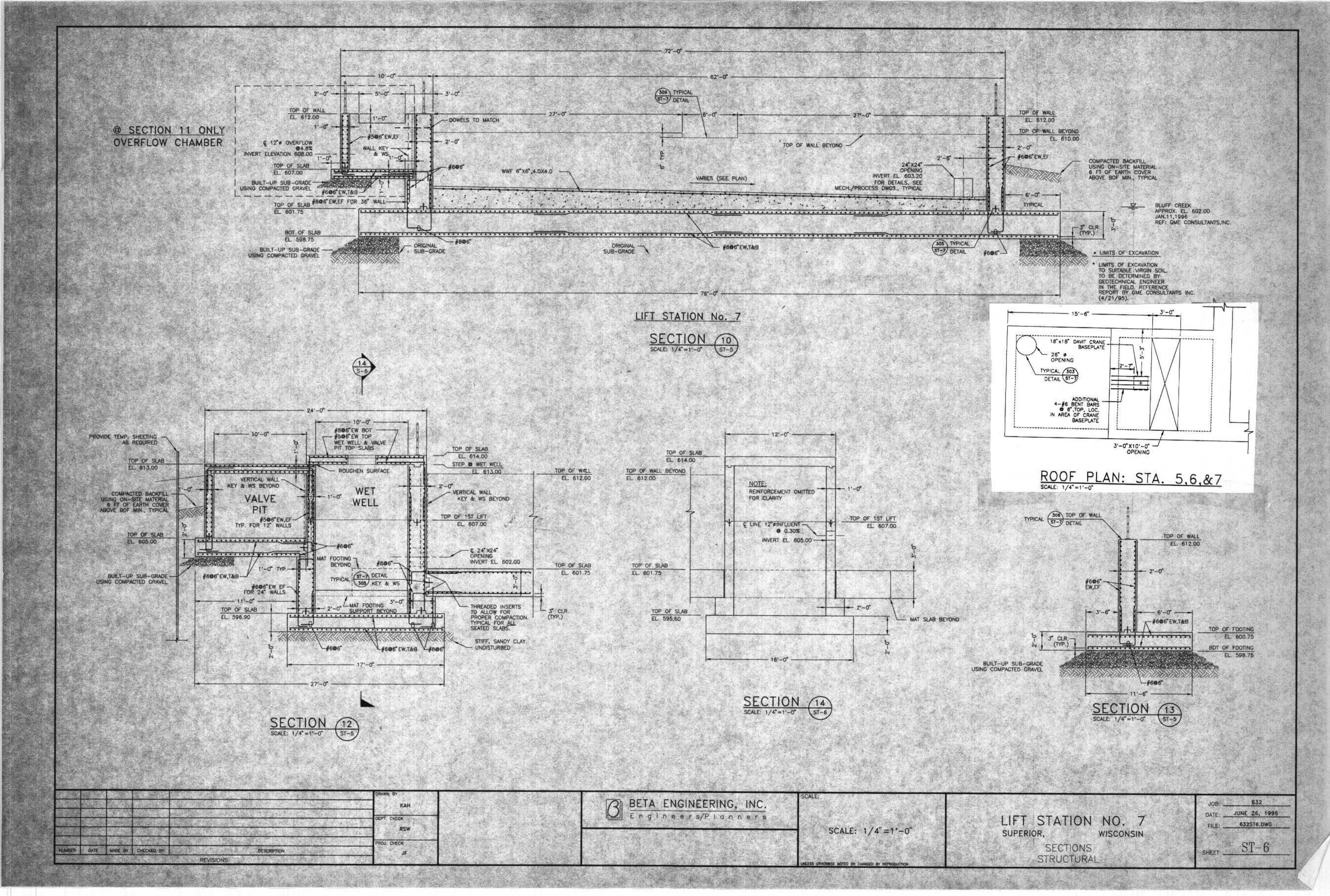
SHEETS

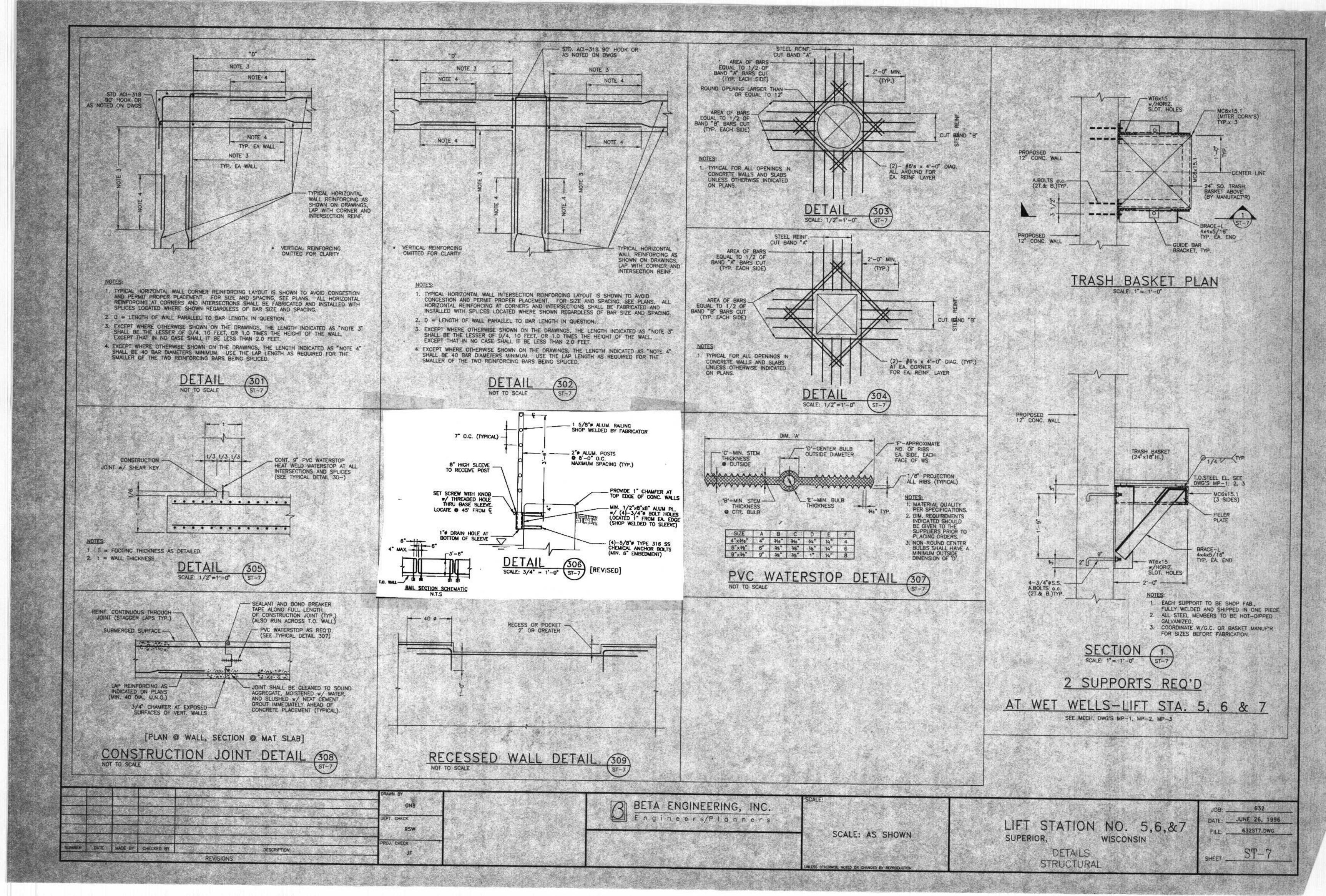
SCALE DESIGNED D.W NO SCALE CHECKED DESCRIPTION DATE APPROVED











STRUCTURAL ABBREVIATIONS

	AL	ALUMINUM	HORZ	HORIZONTAL
	ALT	ALTERNATE	IF .	INSIDE FACE
8	BOT	BOTTOM	LONG.	LONGITUDINAL
	BOF	BOTTOM OF FOOTING	MAX	MAXIMUM
	BM	BEAM	MIN	MINIMUM
	BRG	BEARING	NTS	NOT TO SCALE
8	CJ	CONSTRUCTION JOINT	oc	ON CENTER
ij	€ ·	CENTER LINE	OF	OUTSIDE FACE
	CLR	CLEARANCE	RC	REINFORCED CONCRE
	COL	COLUMN	SIM	SIMILIAR
	CONC	CONCRETE	SPECS	SPECIFICATIONS
Ē	CONN	CONNECTION	50	SQUARE
智	DIA	DIAMETER	T&B	TOP AND BOTTOM
	EA	EACH	TOC	TOP OF CONCRETE
	EF	EACH FACE	TRANSV	TRANSVERSE
er G	EL	ELEVATION	TOS	TOP OF STEEL
3	EW	EACH WAY	TOW ·	TOP OF WALL
ij	EXP JT	EXPANSION JOINT	TYP	TYPICAL
	FDN	FOUNDATION	VERT	VERTICAL
	FTG	FOOTING	WS	WATERSTOP
3	GALV	GALVANIZE (HOT DIPPED)	WWF	WELDED WIRE FABRIC

STRUCTURAL LEGEND

<u> </u>	INDICATES CENTER LINE
[602.00]	INDICATES BOTTOM OF FOOTING ELEVATION
612,00	INDICATES TOP OF WALL ELEVATION
	INDICATES PROPOSED WORK
	INDICATES EXISTING CONDITIONS
	INDICATES EXISTING HIDDEN CONDITIONS
	INDICATES NEW CONCRETE/ CONCRETE FILL

NOTE:
CONTRACTOR SHALL PROTECT ALL STRUCTURES
FROM BOUYANCY DURING CONSTRUCTION UNTIL
ENTIRE STRUCTURE IS COMPLETED AND BACKFILLED
AS DIRECTED.

SPECIAL BOUYANCY COMPENSATION IS REQUIRED DURING CONSTRUCTION AND FUTURE MODIFICATIONS SEE GENERAL NOTES.

LIFT STATION No. 5, 6 & 7

GEOTECHNICAL DESIGN CRITERIA EARTH AND HYDROSTATIC PRESSURES

THE PERSON OF TH	32	ETG HAZ THE
1. AT REST ABOVE GROUNDWATER TABLE (GWT) EQUIVALENT FLUID PRESSURE (EFP)		70 PCF
[2] 전 보이 있는 사람들은 10 10 10 10 10 10 10 10 10 10 10 10 10	COACO	110 PCF
	4	120 PCF
		350 PSF
5. K.	-	0.40
6. K	=	0.58
7. DESIGN 100 YEAR FLOOD ELEVATION	-	AT GRADE

STRUCTURAL NOTES -

GENERAL

1. DESIGN IS IN ACCORDANCE WITH, AND CONSTRUCTION SHALL CONFORM TO REQUIREMENTS OF THE WISCONSIN ADMINISTRATIVE CODE, DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS, CHAPTERS ILHR 50 TO 84, 'BUILDING AND HEATING, VENTILATING AND AIR CONDITIONING', WITH ALL ITS REVISIONS.

2. INFORMATION REGARDING EXISTING CONSTRUCTION AND CONDITIONS IS BASED ON FIELD INSPECTION, AND IS INCLUDED TO ASSIST THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.

3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN UNANTICIPATED OR APPARENTLY DANGEROUS CONDITIONS ARE UNGOVERED DURING CONSTRUCTION OR DEMOLITION.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE PORTION OF THE WORK.

5. OPENINGS LESS THAN 12" MAXIMUM DIMENSION IN SLABS AND MALES AND AND ARCHITECTURE OF THE WORK.

WALLS ARE GENERALLY NOT SHOWN ON STRUCTURAL DRAWINGS.
SEE MECHANICAL ELECTRICAL AND PLUMBING DRAWINGS (IF
ANY) FOR LOCATIONS AND DIMENSIONS OF CHASES, INSERTS,
SLEEVES: OPENINGS AND OTHER PROJECT REQUIREMENTS NOT
SHOWN ON STRUCTURAL DRAWINGS.

6. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE FOR MOST NEARLY SIMILAR CONDITION AS DETERMINED BY THE ENGINEER:

7. THE CONTRACTOR SHALL SHORE, BRACE, SHEETPILE OR OTHERWISE SUPPORT THE STRUCTURE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AT ALL TIMES, B. HEADERS SHALL BE PLACED ACROSS TOP OF SHORING POSTS AND SHALL BE TIGHT AGAINST UNDERSIDE OF STRUCTURE

ABOVE.

9. SHORING SHALL BEAR ON SLEEPERS TO PREVENT DAMAGE TO STRUCTURE BELOW.

10. TEMPORARY SHORES SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED AND MAINTAINED BY THE CONTRACTOR TO SUPPORT SAFELY ALL DEAD LOADS PRESENTLY CARRIED BY THE STRUCTURAL WORK BEING SHORED, AND ANY

CONSTRUCTION LIVE LOADS.

11. NEW STRUCTURAL SYSTEMS SHALL BE COMPLETELY INSTALLED AND CAPABLE OF SUPPORTING DESIGN LOADS BEFORE SHORES ARE REMOVED. SHORES SHALL BE RELEASED GRADUALLY.

DESIGN LOADS (EXCEPT AS NOTED):

SNOW - (ZONE 1): LIVE LOAD	40 PSF
STRUCTURAL SLAB - WET WELL AREAS	
WHEEL/ AXLE LOAD	350 PSF HS-20

FOUNDATIONS

LIFT STATION NO. 7

2000 PSF
THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY
IF UNSUITABLE BEARING MATERIALS EXIST.

2. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE
VALIDITY OF SUBSURFACE CONDITIONS WHERE DESCRIBED ON
DRAWINGS, SPECIFICATIONS, TEST BORINGS OR TEST PITS.

THESE DATA ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING CONSTRUCTION, AND REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE PARTICULAR TIME THEY WERE PERFORMED.

3. THE FOUNDATION DESIGN IS BASED ON INFORMATION PROVIDED IN GEOTECHNICAL REPORTS. 'SUBSURFACE SOIL EXPLORATION REPORT, SUPERIOR LIFT STATIONS 5 & 6, EAST 2nd STREET SUPERIOR, WISCONSIN, DATED 4/21/95, PREPARED BY TWIN PORTS TESTING, INC., SUPERIOR, WI.

TWIN PORTS TESTING, INC., SUPERIOR, WI.

ALSO, 'GEOTECHNICAL EXPLORATION, PROPOSED STORAGE TANK,
LIFT STATION #7, CITY OF SUPERIOR, PUBLIC WORKS DEPARTMENT
SUPERIOR, WISCONSIN, GME PROJECT NO. D-1770D DATED 7/6/94
PREPARED BY GME CONSULTANTS, INC., SUPERIOR, WI., INCLUDING
THE SUPPLEMENTAL DATED 1/11/96.

4. UNSUITABLE BEARING MATERIALS, SUCH AS MISCELLANEOUS FILL AND ORGANIC SDILS MAY EXIST IN AREAS OF NEW FOUNDATIONS. EXISTING UNSUITABLE MATERIALS SHALL BE EXCAVATED TO 1"-0"MIN. AS DIRECTED OR AS INDICATED ON THE DRAWINGS AND SHALL BE FOLLOWED BY PLACEMENT OF COMPACTED GRAVEL FILL OR CRUSHED STONE AS SPECIFIED.

6. WHERE ROCK IS ENCOUNTERED, IT SHALL BE EXCAVATED TO 1'-0" BELOW BOTTOMS OF FOOTINGS AND SLABS AND REPLACED WITH A 1'-0" LAYER OF COMPACTED GRAVEL OR SAND.

NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SOIL.
 BACKFILL UNDER ANY PORTION OF THE STRUCTURE SHALL BE COMPACTED IN 6" LIFTS.

8. COMPACT SOIL TO 95% OF MAX. DRY DENSITY UNDER FOOTINGS AND SLABS ACCORDING TO ASTM D-1557.

9. PLACE CONSTRUCTION JOINTS AND P.V.C. WATERSTOPS IN SLABS AND FOUNDATION WALLS IN ACCORDANCE WITH DETAILS AND AT LOCATIONS INDICATED ON DRAWINGS.

10. FOUNDATION WALLS ENCLOSING BELOW GRADE AREAS SHALL BE BRACED OR HAVE RCOF SLABS OR FRAMING SECURELY IN PLACE PRIOR TO BACKFILLING. CONCRETE SHALL REACH 75% OF THE DESIGN STRENGTH PRIOR TO BACKFILLING.

11. BACKFILL SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY

ON BOTH SIDES OF FOUNDATION WALLS WHEREVER POSSIBLE.

12. CONTRACTOR SHALL MAINTAIN CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SO THAT WORK IS DONE UNDER DRY CONDITIONS ON UNDISTURBED SUBGRADE MATERIAL OR COMPACTED FILL, AS APPLICABLE. IT IS ANTICIPATED THAT SHEETING & DEWATERING WILL BE REQUIRED.

13. ALL EMBANKMENTS AND BACKFILL AROUND STRUCTURES SHALL
BE COMPACTED TO 90%.

14. ALL BELOW GRADE CONCRETE WALLS SHALL BE COATED WITH A
BITUMINOUS BASED DAMPPROOFING MATERIAL.

15. STRUCTURES ARE DESIGNED FOR GROUNDWATER ELEVATIONS
BASED ON INFORMATION PROVIDED IN THE GEOTECHNICAL REPORTS
PREPARED BY GME CONSULTANTS, INC., SEE NOTE 3. ABOVE.

16. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF
OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND

STRUCTURAL NOTES, CONT.

CONCRETE

1. CONCRETE WORK SHALL CONFORM TO LATEST EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACT 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACT 301), AND ACT 350 "ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES":

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF THE APPROVED TESTING AGENCY.
 CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, UNLESS OTHERWISE NOTED.

4. ALL CONCRETE SHALL BE AIR-ENTRAINED.
5. CONCRETE SHALL BE CURED FOR A MINIMUM OF (7) SEVEN DAYS BEFORE ANY LOADS ARE APPLIED THERETO.
6. CONSTRUCTION JOINTS SHALL BE PLACED AS SHOWN ON THE

OF THE ENGINEER.

7. CONCRETE SHALL BE PLACED SO THAT SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON DRAWINGS.

8. CONCRETE SLABS AND WALLS SHALL BE CAST ALTERNATELY OR

DRAWINGS. CHANGES SHALL NOT BE MADE WITHOUT APPROVAL

IN A CHECKERBOARD PATTERN SO THAT SECTIONS ARE PLACED

NO SOONER THAN 3 DAYS APART.

9. PROVIDE A SMOOTH RUBBED SURFACE, FREE FROM BURRS, TIE HOLES, HONEYCOMBING, ETC. ON EXPOSED CONCRETE WALLS.

10. PROVIDE A STEEL TROWELED FINISH FOR SLABS AT PITS AND

A BROOM FINISH FOR EXPOSED SLABS.

11. AT OPENINGS IN FOUNDATION WALLS LESS THAN 12 INCHES SQUARE, PROVIDE 2-#6S AT EACH EDGE OF OPENING.

12. PORTLAND CEMENT TYPE II SHALL BE USED FOR ALL CONCRETE AND MAXIMUM W/C (WATER CEMENT RATIO) SHALL

CONCRETE AND MAXIMUM W/C (WATER CEMENT RATIO) SHALL
BE 0.45 AND A MAXIMUM WATER SOLUBLE CL-CONCENTRATION
IN HARDENED CONCRETE OF 0.15% BY WEIGHT OF CEMENT.

13. AT ALL CONSTRUCTION JOINTS EPOXY NEW CONCRETE TO
HARDENED CONCRETE WITH SIKADUR 32, HI-MOD

MANUFACTURED BY SIKA CORP. OR ENGINEER APPROVED
EQUIVALENT APPLY PER MANUFACTURED RECOMMENDATION.

14. ELASTOMERIC SEALANT SHALL BE 'SIKA FLEX 1A' AS
MANUFACTURED BY SIKA CORP. OR ENGINEER APPROVED

15. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER

16. ALL CONCRETE SHALL BE PLACED IN THE DRY.

17. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.

18. PROCESS AND ELECTRICAL DRAWINGS IDENTIFY AND LOCATE ALL EMBEDDED ITEMS (PIPES, SLEEVES, EQUIPMENT BOLTS, RAILINGS, LIFTING RINGS, FRAMES, ETC.) AND ARE TO BE USED IN CONJUNCTION WITH STRUCTURAL DRAWINGS DURING CONSTRUCTION.

 ALL EQUIPMENT ANCHOR BOLTS FURNISHED BY EQUIPMENT MANUFACTURER TO BE INSTALLED BY GENERAL CONTRACTOR, AND SHALL BE STAINLESS STEEL.

REINFORCING STEEL

 REINFORCING STEEL SHALL BE GRADE 60 NEW BILLET STEEL, CONFORMING TO ASTM A615. WELDED WIRE FABRIC SHALL BE ASTM A185.

DETAILING, FABRICATION AND ERECTION OF REINFORCEMENT
SHALL CONFORM TO LATEST EDITIONS OF "BUILDING CODE
REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND
"MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED
CONCRETE STRUCTURES" (ACI 315).
 MINIMUM LAP OF REINFORCING BARS SHALL BE 40

4. REINFORCEMENT SHALL BE CONTINUOUS THROUGH
CONSTRUCTION JOINTS.

5. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT
LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT.

DIAMETERS, UNLESS SHOWN OTHERWISE.

#6 THROUGH #18 BARS 2.0°
#5 BAR W31 OR D31 WIRE, AND SMALLER 1.5"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN
CONTACT WITH GROUND
#14 AND #18 BARS, SLABS, WALLS, JOISTS 1.5"
#11 BAR AND SMALLER 1.0"
D. BEAMS, COLUMNS:
PRIMARY REINFORCEMENT, TIES,

STIRRUPS, SPIRALS

2.0"

PROVIDE AND SCHEDULE ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION. MINIMUM REQUIREMENTS SHALL BE HIGH CHAIRS, 4'-0" O.C. WITH CONTINUOUS #5 SUPPORT BAR, SLAB BOLSTERS, CONTINUOUS AND 3'-6" O.C.; BEAM BOLSTERS, 5'-0" O.C. ALL CHAIRS SHALL BE GALVANIZED AND SHALL BE USED AGAINST ALL FORMS (SLABS, WALLS, PILASTERS,

8. WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR IT SHALL BE EXTENDED CONTINUOUS AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICES UNLESS NOTED OTHERWISE:

9. WHERE REINFORCEMENT IS REQUIRED IN SECTION,
REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE
SECTION APPLIES.
10. WELDED WIRE FABRIC SHALL LAP 6" OR ONE SPACE,

11. REINFORCEMENT SHALL NOT BE TACK WELDED.

WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.

STRUCTURAL NOTES, CONT.

STEEL

1. STRUCTURAL STEEL IS DESIGNED IN ACCORDANCE WITH AND WORK SHALL CONFORM TO THE LATEST EDITIONS OF "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (AISC), "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC) AND "STRUCTURAL WELDING CODE— STEEL (AWS.) STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO ASTM A36, FY =36 KSI, UNLESS OTHERWISE NOTED.

2. TUBE STEEL SECTIONS SHALL BE ASTM A500 GRADE B. FY

2. TUBE STEEL SECTIONS SHALL BE ASTM A500 GRADE B, FY 46 KSI.

3. CONNECTIONS:

A. BEAM CONNECTIONS SHALL BE TYPE-3 "SEMI-RIGID FRAMING"
(PARTIAL RESTRAINED), UNLESS NOTED OTHERWISE.
REFER TO AISC SPECIFICATIONS AND PROVIDE DETAILS
FOR REVIEW AND APPROVAL.

B. CONNECTIONS SHALL BE BOLTED OR WELDED OR BOTH,
AND FABRICATOR SHALL SUBMIT PROPOSED CONNECTION
DETAILS FOR APPROVAL PRIOR TO FABRICATION.

C. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4"
DIAMETER 316 STAINLESS STEEL
OR A325 HOT DIP GALVANIZED AS NOTED IN DETAIL

D. WELDED CONNECTIONS SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH AWS D.1.1, USING CLASS E70 SERIES ELECTRODES. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED.

E. COLUMN ANCHOR BOLTS SHALL BE STAINLESS STEEL
TYPE 316.
4. ALL STEEL COMPONENTS AND FITTINGS EXPOSED TO WEATHER

IN THEIR FINAL STATE SHALL BE HOT DIPPED GALVANIZED.

5. ANCHOR BOLTS AND BEARING PLATES SHALL BE LOCATED BY TEMPLATES OR SIMILAR METHOD. PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT. BOTTOM OF BASE PLATES SHALL BE SET APPROXIMATELY 3/4" ABOVE TOP OF BEARING. RESULTING SPACE SHALL BE FILLED WITH DRY PACKED NON-SHRINK GROUT.

6. STEEL FRAMING SHALL BE TRUED AND PLUMB BEFORE CONNECTIONS ARE

PERMANENTLY BOLTED OR WELDED.

7. TEMPORARY ERECTION BRACING AND SUPPORTS SHALL BE PROVIDED TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND FLOOR SLABS HAVE ATTAINED 75% OF SPECIFIED CONCRETE STRENGTH.

MILLED STIFFENERS SHALL BE PROVIDED UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS OVER ALL COLUMNS AND WHERE SHOWN ON THE DRAWINGS.

9. *** WELDING SHALL BE INSPECTED IN THE FIELD BY

QUALIFIED WELDING INSPECTORS UNDER THE SUPERVISION OF AN APPROVED TESTING AGENCY. 10. FIELD CUTTING OR ANY OTHER FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT APPROVAL

FROM ENGINEER FOR EACH SPECIFIC CASE.

11. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED (2 OZ/ SQ. FT.) AFTER FABRICATION IN COMPLIANCE WITH ASTM—123, A153 OR A386 AS APPLICABLE. GALVANIZER SHALL FURNISH, TO ENGINEER A NOTARIZED CERTIFICATE OF COMPLIANCE WITH THESE SPECIFICATIONS.

PROJ. CHECK

NUMBER DATE MADE BY CHECKED BY

REVISIONS

DESCRIPTION

JE

BETA ENGINEERING, INC. Engineers/Planners

SCALE: NONE

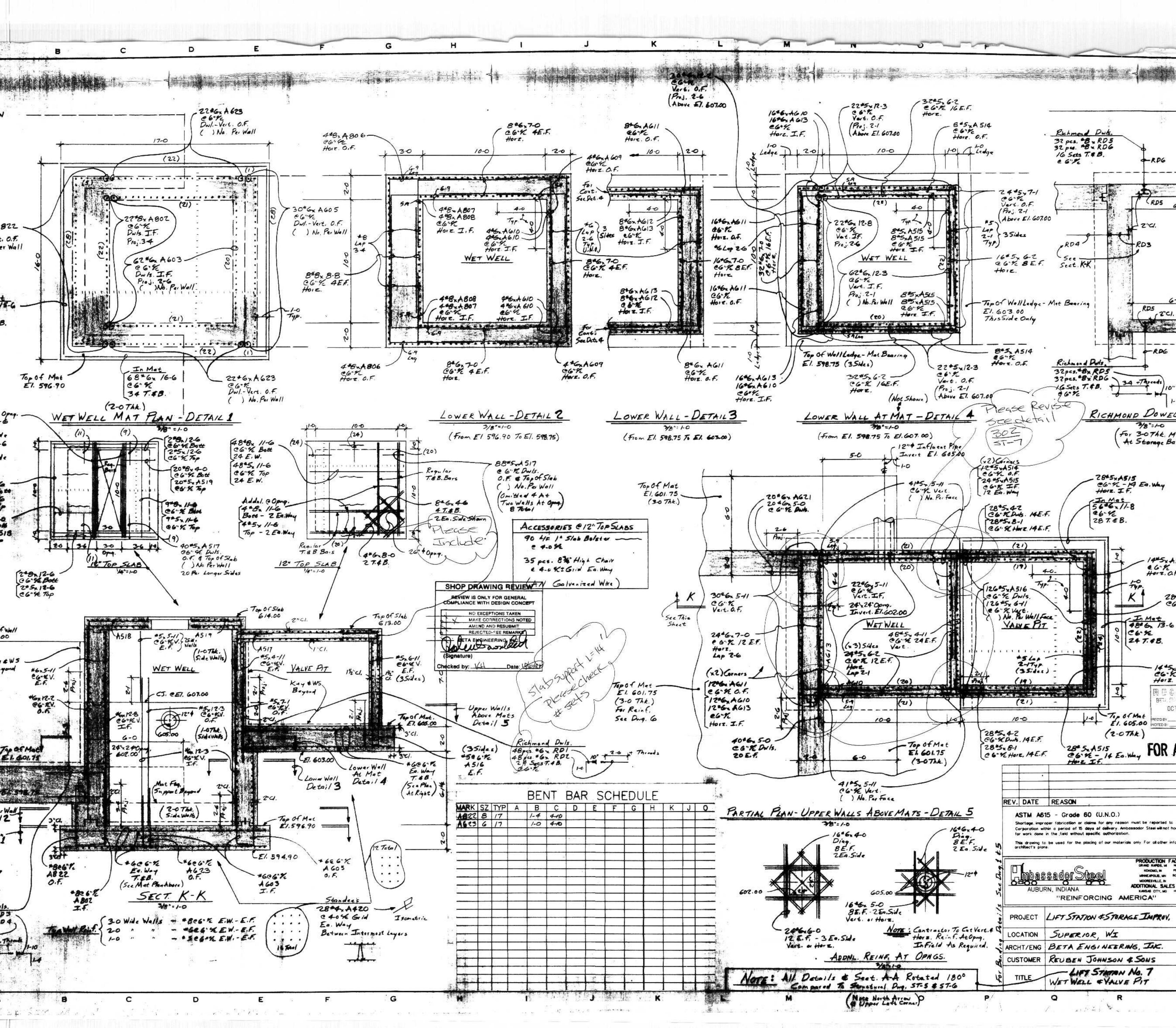
ILESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

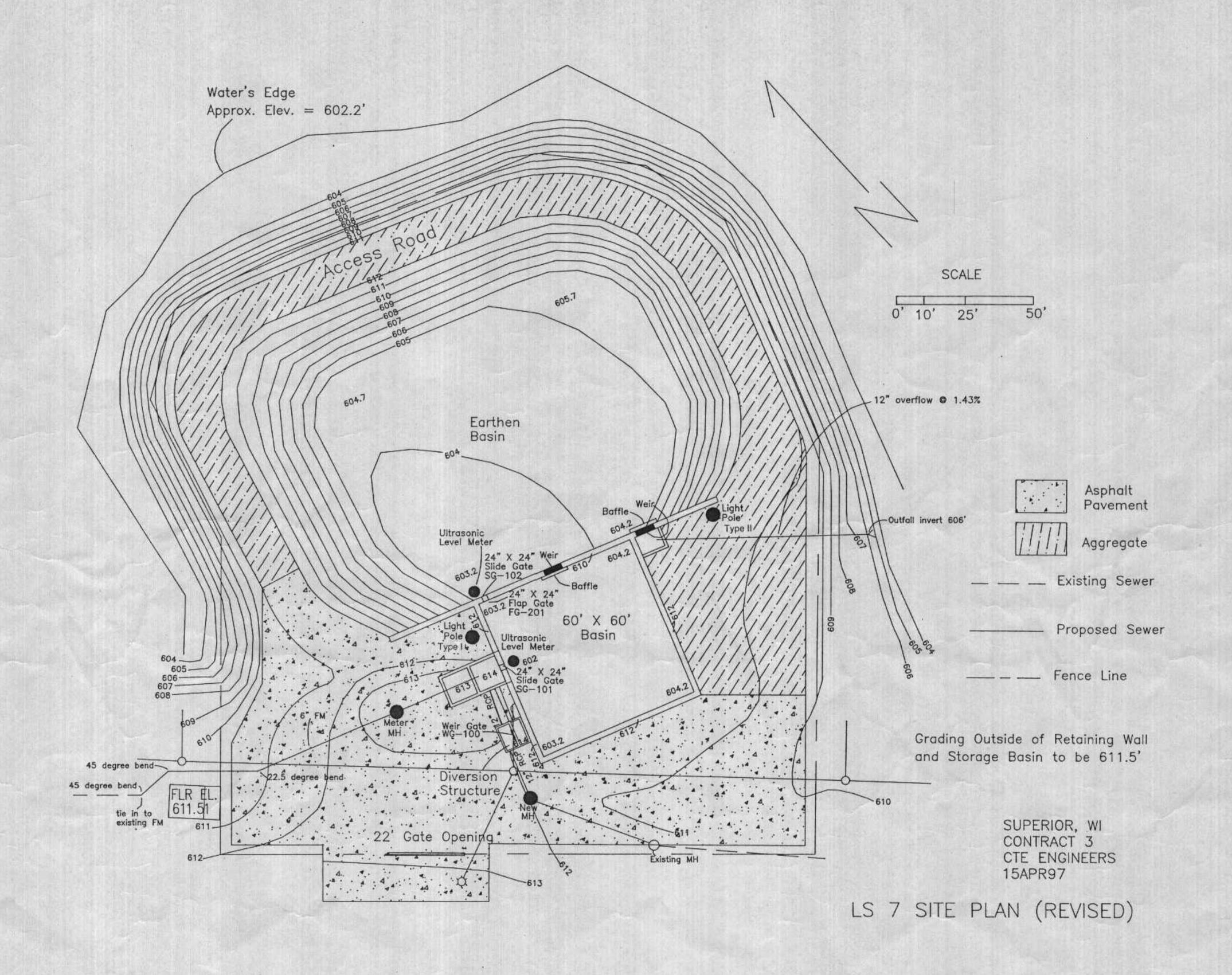
LIFT STATION NO. 5,6,&7
SUPERIOR, WISCONSIN

GENERAL NOTES
STRUCTURAL

JOB: 632 DATE: JUNE 26, 1996 FILE: 632ST8.DWG

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