

BUCKSPORT WWTP
TRANSFER PUMP STATION

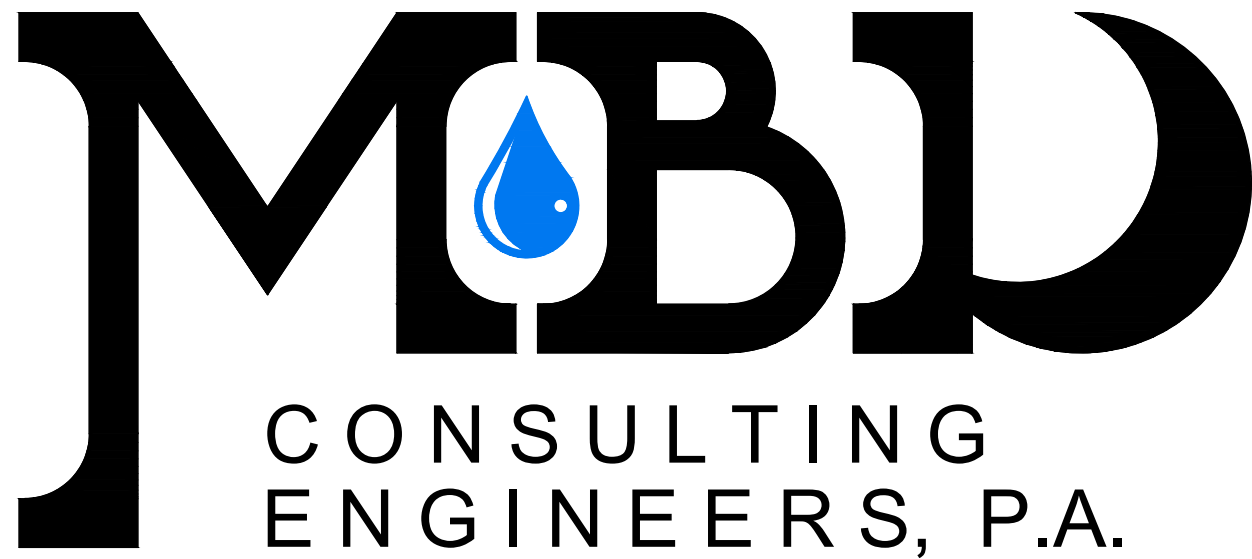
HORRY COUNTY, SOUTH CAROLINA



RECORD DRAWING	AUGUST 2015
THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF IT'S ACCURACY BEFORE RELYING ON IT FOR ANY PURPOSE.	

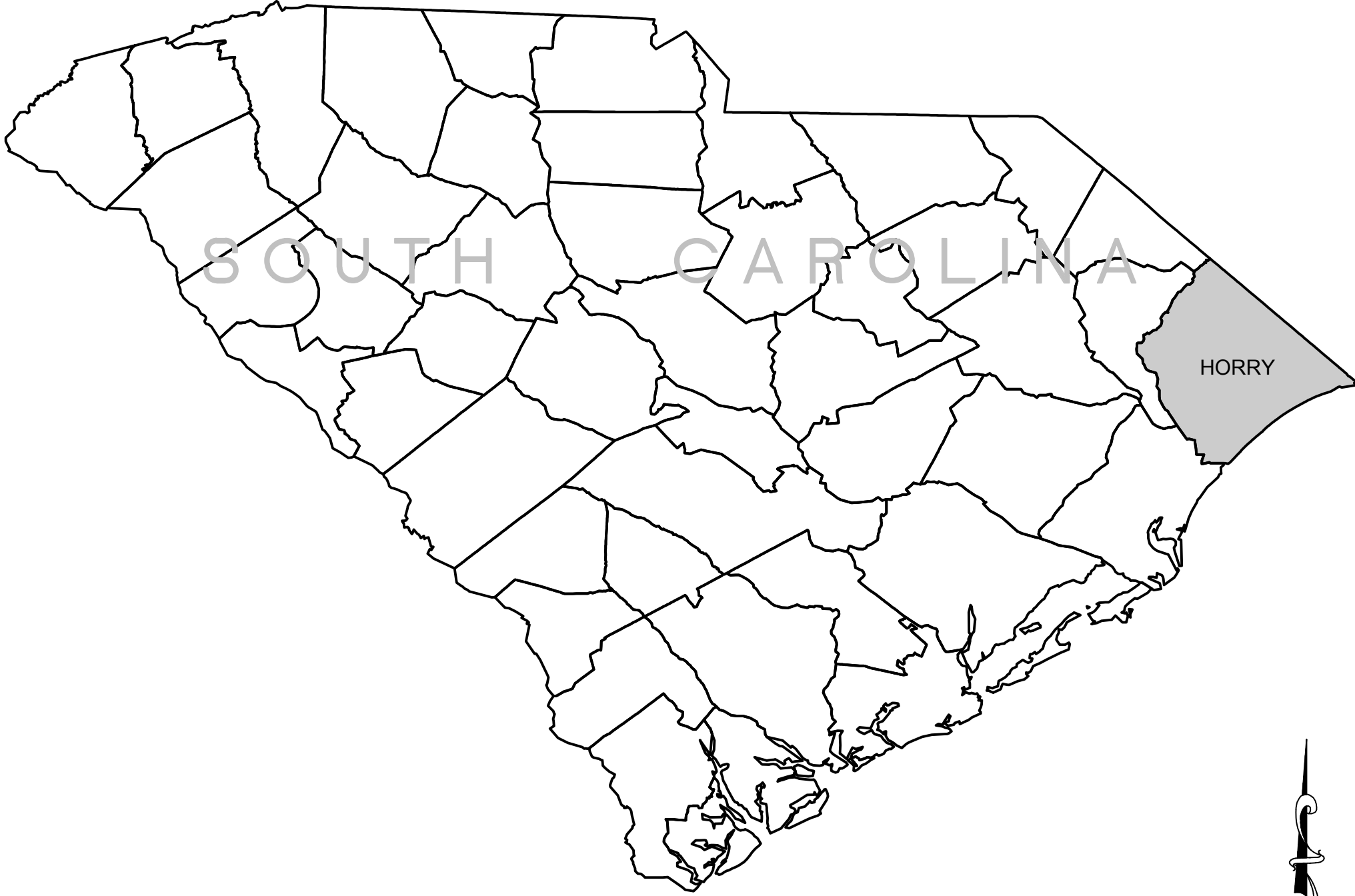
26-061-001/9

Version: 2

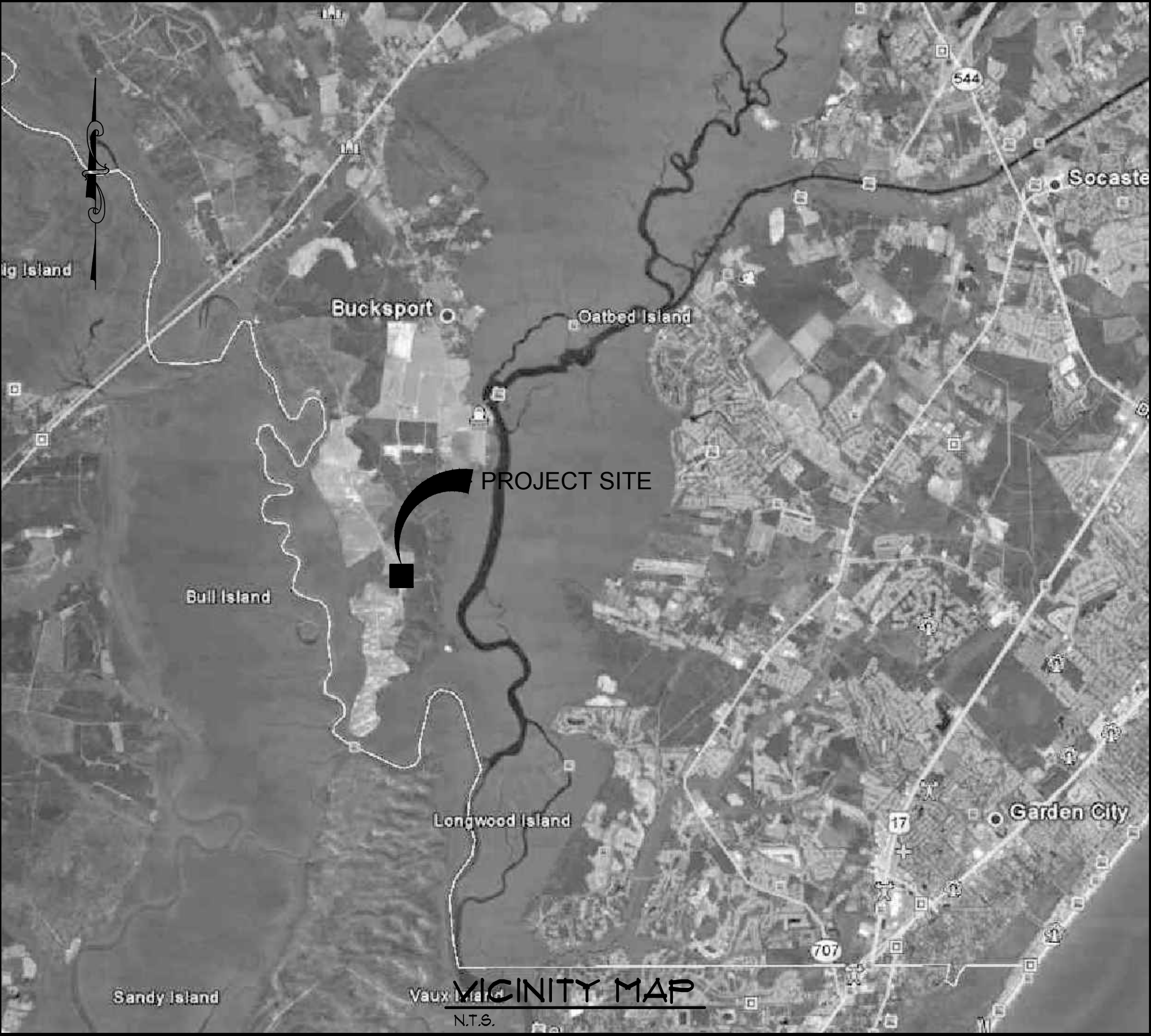


1300 SECOND AVENUE
SUITE 211
CONWAY, SC 29526
Phone: (843) 488-0124
Fax (843) 488-0129

	AUGUST 2015
	JOB NO. 33013
	11x17 DWGS. ARE TRUE HALF SCALE
	AS-BUILT



LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.

* NUMBER OR POUND	INFL INFLUENT
Ø DIAMETER	INS. INSIDE
∅ AND	INV. INVERT
< LESS THAN	JT. JOINT
<= LESS THAN OR EQUAL TO	JTS JOINTS
> GREATER THAN	L.L.O. LONG LEG OUT
@ AT	LB POUND
A.B. ANCHOR BOLT	LG LONG
AFF. ABOVE FINISHED FLOOR	L.P. LOW POINT
ADDL ADDITIONAL	M.J. MECHANICAL JOINT
ALUM ALUMINUM OR ALUM	MATL. MATERIAL
APPROX APPROXIMATE(LY)	MAS MASONRY
ARCH ARCHITECTURAL	MAX MAXIMUM
BM BENCH MARK OR BEAM	MECH MECHANICAL
BOTT. BOTTOM	MFR MANUFACTURER
B.W. BLOCK WALL	MH MANHOLE
C.I. CAST IRON	MIN MINIMUM
C/C CENTER TO CENTER	MNTG MOUNTING
CAP CAPACITY	N.P.W. NONPOTABLE WATER
CIRCUM CIRCUMFERENCE	N.T.S. NOT TO SCALE
CL CLAY	NO. NUMBER
CLR. CLEARANCE	O.C. ON CENTER
¢ CENTERLINE	O/O OUTSIDE TO OUTSIDE
CL2 CHLORINE	OFNG OPENING
CLARIF CLARIFIER	OX OXIDATION
CHEM. CHEMICAL	F.E. FLAIN END
COL COLUMN	FED PEDESTAL
CONC. CONCRETE	PL PLATE
CONST CONSTRUCTION	FLCS. PLACES
CONT CONTINUOUS	PROJ PROJECTION
CONTR CONTRACTOR	P.S. PUMP STATION
CU COPPER	P.V.C. POLYVINYL CHLORIDE
C.W. CONCRETE WALL	R.C.P. REINFORCED CONCRETE PIPE
D DIAMETER	RAD. RADIUS
DIA DIAMETER	RAS RETURN ACTIVATED SLUDGE
D.I.P. DUCTILE IRON PIPE	RED REDUCER
DISCH. DISCHARGE	REF REFERENCE
DP DEEP	REINF REINFORCING OR REINFORCED
DWL.S. DOWEL\$	REQ'D REQUIRED
E.F. EACH FACE	S.S. STAINLESS STEEL
E.J. EXPANSION JOINT	SCH. SCHEDULE
EA EACH	SHT SHEET
EFF. EFFLUENT	SIM SIMILAR
EL ELEVATION	SO2 SULFUR DIOXIDE
ELEV ELEVATION	SPA SPACES
EQ EQUAL	SQ. SQUARE
EQUIP EQUIPMENT	STD. STANDARD
EXIST. EXISTING	STL STEEL
EXP. EXPANSION	STN STAINLESS
F.E.S. FLARED END SECTION	SW. SLAB WIDTH
F.R.P. FIBERGLASS	S.W.D. SIDE WALL DEPTH
REINFORCED PLASTIC	T/ TOP OF
FIG FIGURE	TCJ,CJ TYP. CONTROL JOINT,
FIN FINISHED	CONSTRUCTION JOINT
FL. FLANGE	THRD THREAD(S)XED)
FLR FLOOR	TRICK TRICKLING
FTG FOOTING	TYP TYPICAL
GALV GALVANIZED	U.O.N. UNLESS OTHERWISE NOTED
HDUE HARDWARE	VERT VERTICAL
HK HOOK	W.W.F. WELDED WIRE FABRIC
HORIZ. HORIZONTAL	W/ WITH
H.P. HIGH POINT	W/O WITHOUT
HYD HYDRANT	WAS WASTE ACTIVATED SLUDGE
I.D. INSIDE DIAMETER	W/L WATER LEVEL
O.D. OUTSIDE DIAMETER	

DETAIL CALL-OUT
AND DETAIL TITLE
IDENTIFICATION
SYMBOL

DETAIL IDENTIFICATION LETTER
(IN SAME STRUCTURE)

SHEET NUMBER (IN SAME DISCIPLINE)
WHERE DETAIL IS DRAWN.

SHEET NUMBER ON WHICH DETAIL
CONDITION OCCURS, (DASH INDICATES
CONDITION OCCURS ON MULTIPLE
SHEETS.)

SECTION CUT SYMBOL
(w/ARROW) OR TITLE
IDENTIFICATION SYMBOL
(w/o ARROW)

SECTION IDENTIFICATION NUMBER

SHEET NUMBER (IN SAME STRUCTURE)
WHERE SECTION IS DRAWN.

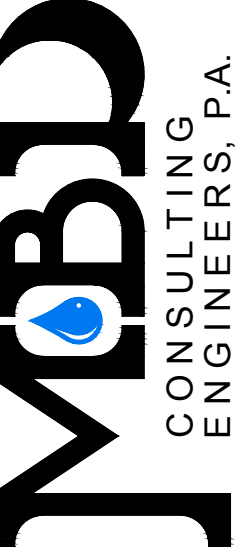
SHEET NUMBER (IN SAME STRUCTURE)
ON WHICH SECTION IS INITIALLY CUT.

1	COVER SHEET
2	GENERAL NOTES & INDEX
3	TRANSFER PUMP STATION SITE LAYOUT PLAN
4	TRANSFER PUMP STATION SITE PIPING PLAN
4A	TRANSFER PUMP STATION SITE GRADING PLAN
5	TRANSFER PUMP STATION LAYOUT & SECTION
6	TRANSFER PUMP STATION EXTERIOR ELEVATIONS
7	TRANSFER PUMP STATION LAYOUT & ELEVATIONS
8	MISCELLANEOUS DETAILS

RECORD DRAWING **AUGUST 2015**

THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF THE ACCURACY BEFORE RELYING ON IT FOR ANY PURPOSE.

1300 SECOND AVENUE
SUITE 211
CONWAY, SC 29526
Phone: (843) 488-0124
Fax (843) 488-0129



GENERAL NOTES & INDEX

BUCKSPORT WWTP
TRANSFER PUMP STATION
HORRY COUNTY, SOUTH CAROLINA

Scale: AS SHOWN

Date: AUG 2015

Drawn: ALR

Checked: JWM

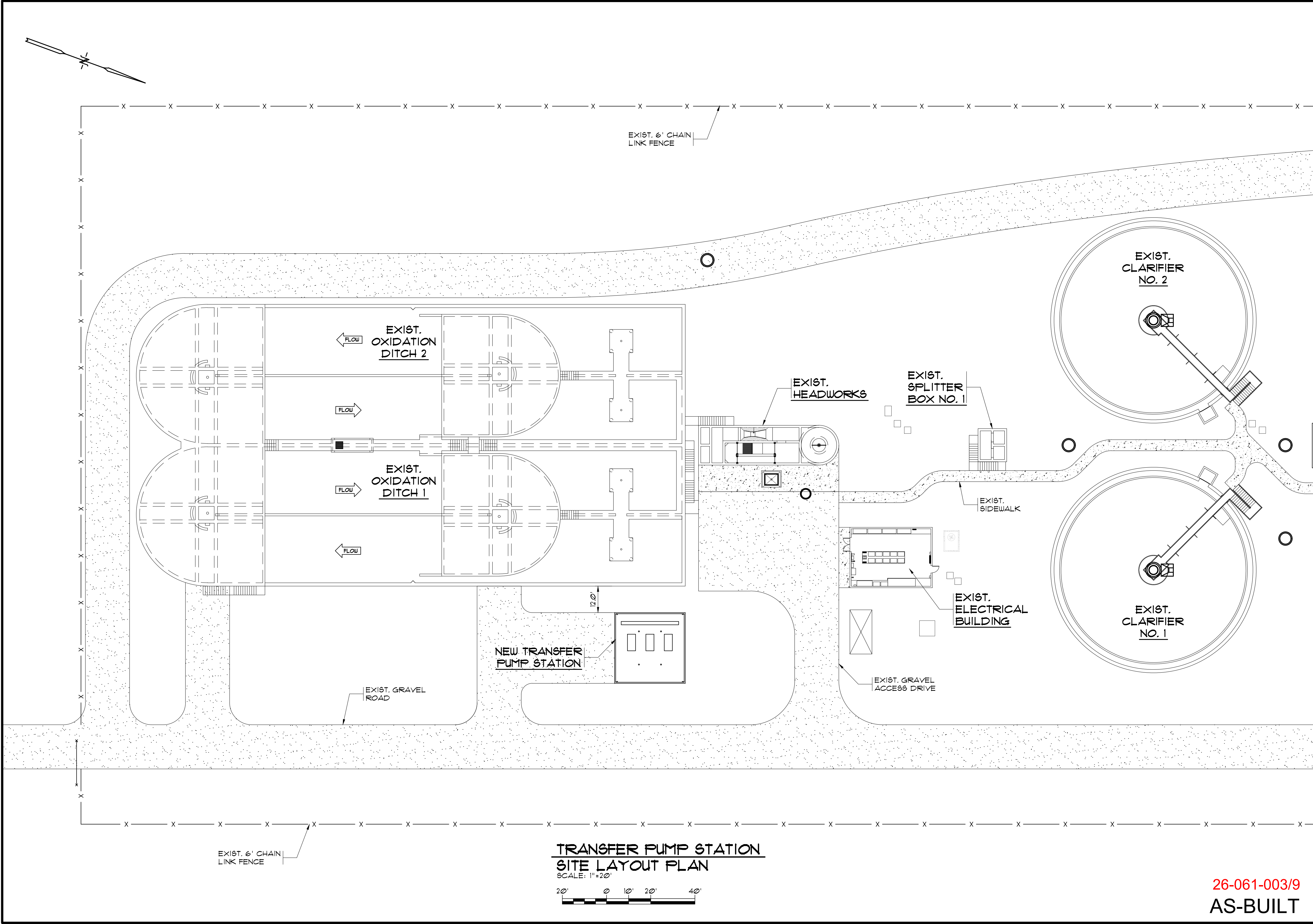
Job No.: 33013

Sheet No.:

2

2

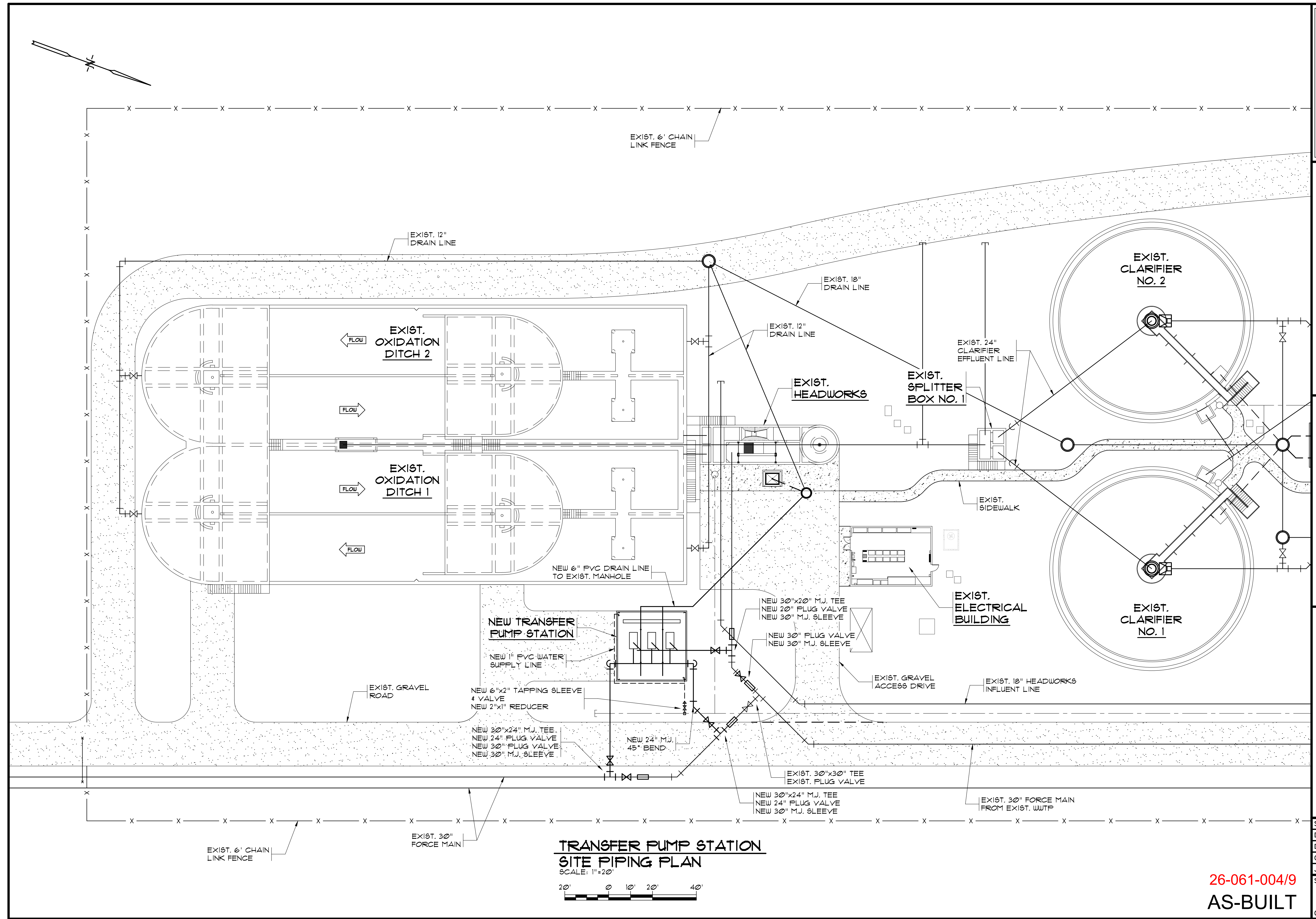
AS-BUILT



TRANSFER PUMP STATION
SITE LAYOUT PLAN
SCALE: 1"=20'

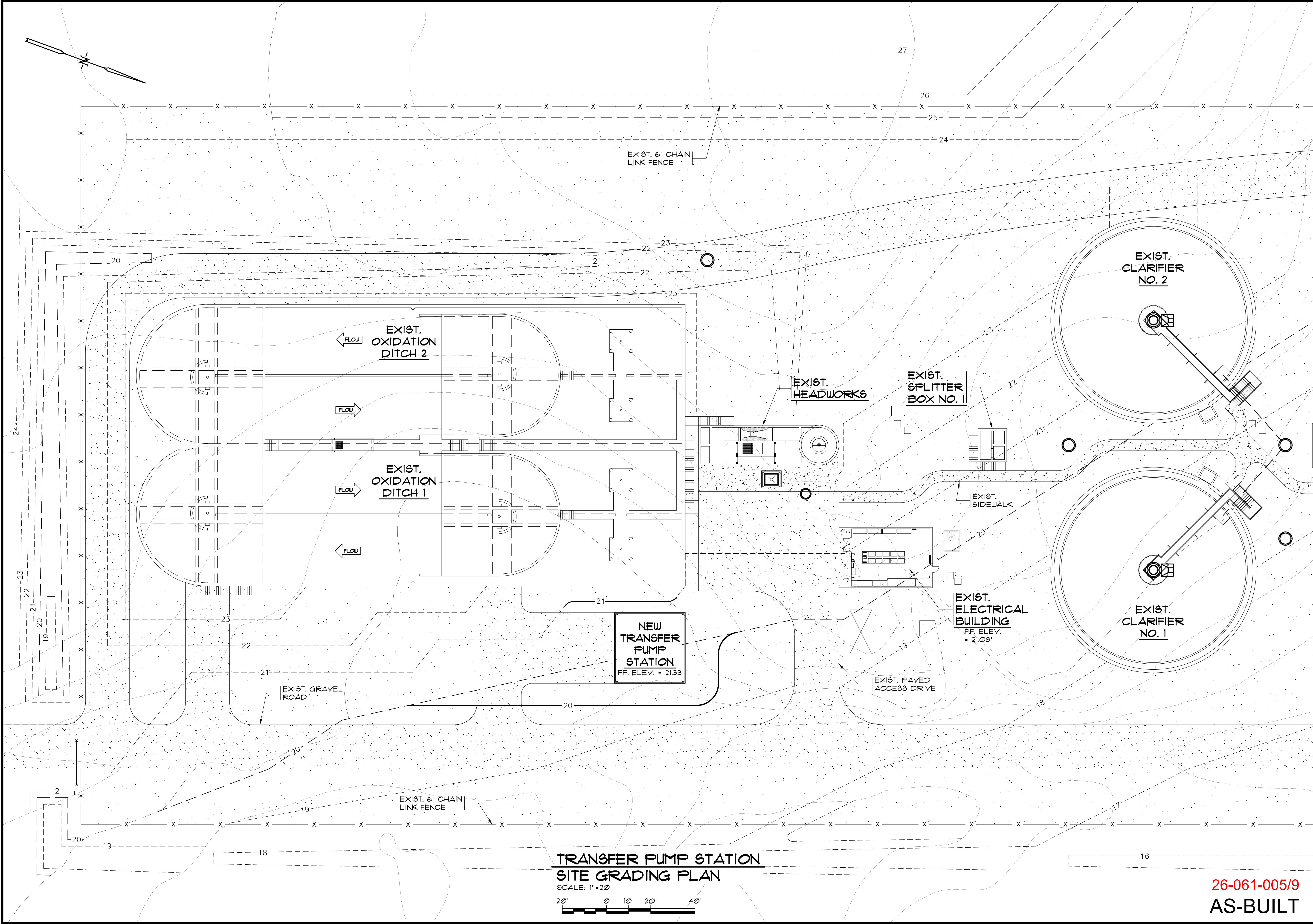
26-061-003/9
AS-BUILT

RECORD DRAWING AUGUST 2015 THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS DRAWING IS PREPARED BY THE CONSULTING ENGINEER, THE CONSULTING ENGINEER'S FIRM DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION. THE CONSULTING ENGINEER'S FIRM HAS CONDUCTED VISUAL GENERAL VERIFICATION OF THE INFORMATION AND HAS FOUND IT TO BE REASONABLY ACCURATE. THE CONSULTING ENGINEER'S FIRM HAS CONDUCTED VISUAL GENERAL VERIFICATION OF THE INFORMATION AND HAS FOUND IT TO BE REASONABLY ACCURATE. THE CONSULTING ENGINEER'S FIRM HAS CONDUCTED VISUAL GENERAL VERIFICATION OF THE INFORMATION AND HAS FOUND IT TO BE REASONABLY ACCURATE.	1300 SECOND AVENUE SUITE 211 CONWAY, SC 29526 Phone: (843) 488-0124 Fax: (843) 488-0129	MBD CONSULTING ENGINEERS, P.A.	TRANSFER PUMP STATION SITE LAYOUT PLAN	BUCKSPORT WWTP TRANSFER PUMP STATION HORRY COUNTY, SOUTH CAROLINA
			Scale: AS SHOWN Date: AUG 2015 Drawn: ALR Checked: JWM Job No.: 33013 Sheet No.: 3 Of: 2 Version: 2	



RECORD DRAWING AUGUST 2015	
THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS DRAWING IS THE PROPERTY OF MBD CONSULTING ENGINEERS, P.A., IT IS NOT BEING LOANED, REPRODUCED, COPIED, OR IN ANY MANNER BEING USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF MBD CONSULTING ENGINEERS, P.A. THE PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING. ANY INFORMATION NOT SHOWN OR SPECIFIED HEREIN HAS BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO VERIFY ALL INFORMATION AND CONDITIONS PRIOR TO ANY CONSTRUCTION. MBD CONSULTING ENGINEERS, P.A. DOES NOT ASSUME ANY LIABILITY FOR ANY ERRORS OR OMISSIONS, OR FOR ANY CONSEQUENCES ARISING FROM ANY RELIANCE ON THIS RECORD DOCUMENT FOR ANY PURPOSE.	
1300 SECOND AVENUE SUITE 211 CONWAY, SC 29526 Phone: (843) 488-0124 Fax: (843) 488-0129	
MBD CONSULTING ENGINEERS, P.A.	
TRANSFER PUMP STATION SITE PIPING PLAN	
BUCKSPORT WWTP TRANSFER PUMP STATION HORRY COUNTY, SOUTH CAROLINA	
Scale:	AS SHOWN
Date:	AUG 2015
Drawn:	ALR
Checked:	JWM
Job No.:	33013
Sheet No.:	4
Of:	Version: 2

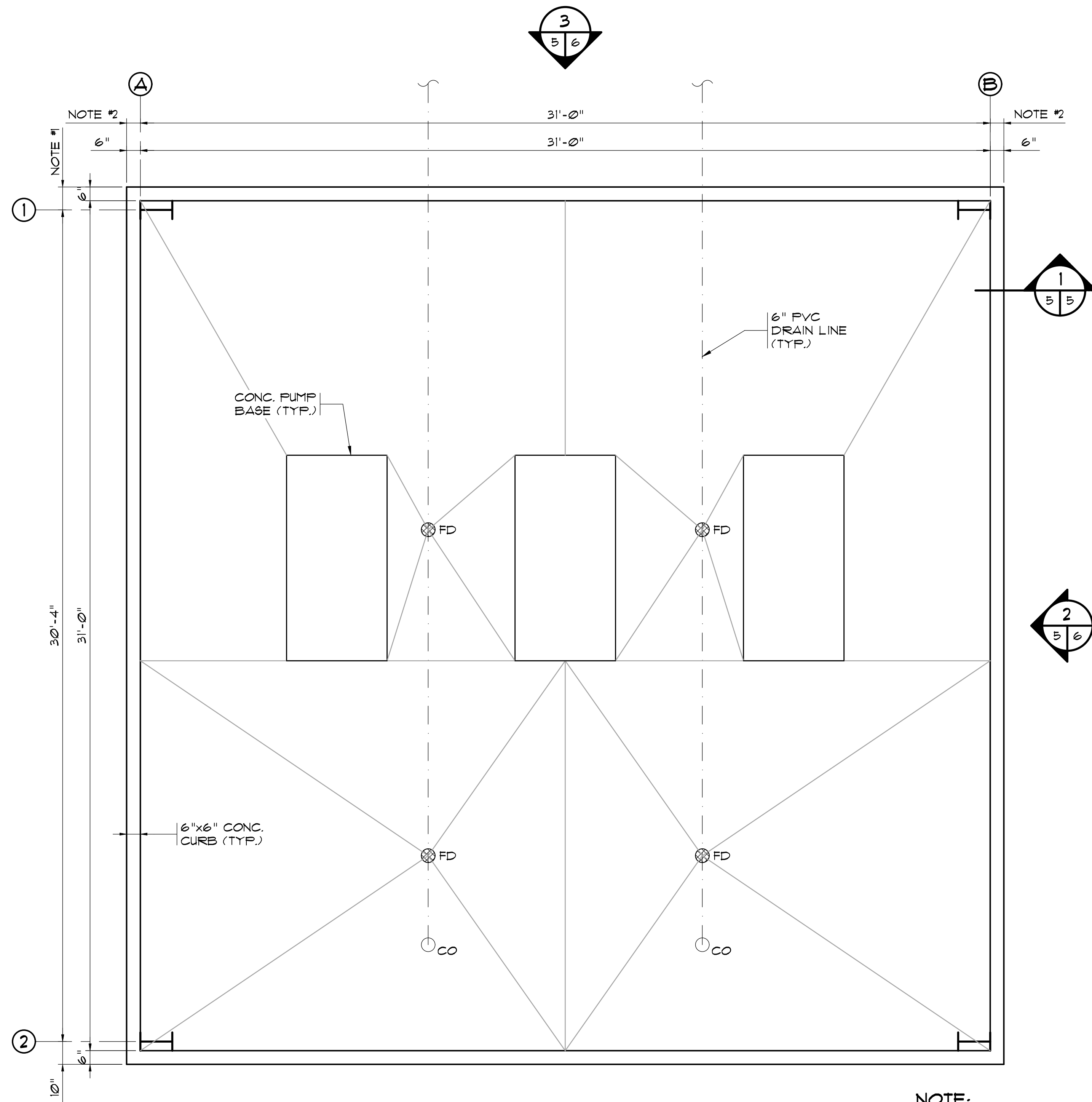
26-061-004/9
AS-BUILT



**TRANSFER PUMP STATION
SITE GRADING PLAN**
SCALE: 1"=20'

**26-061-005/9
AS-BUILT**

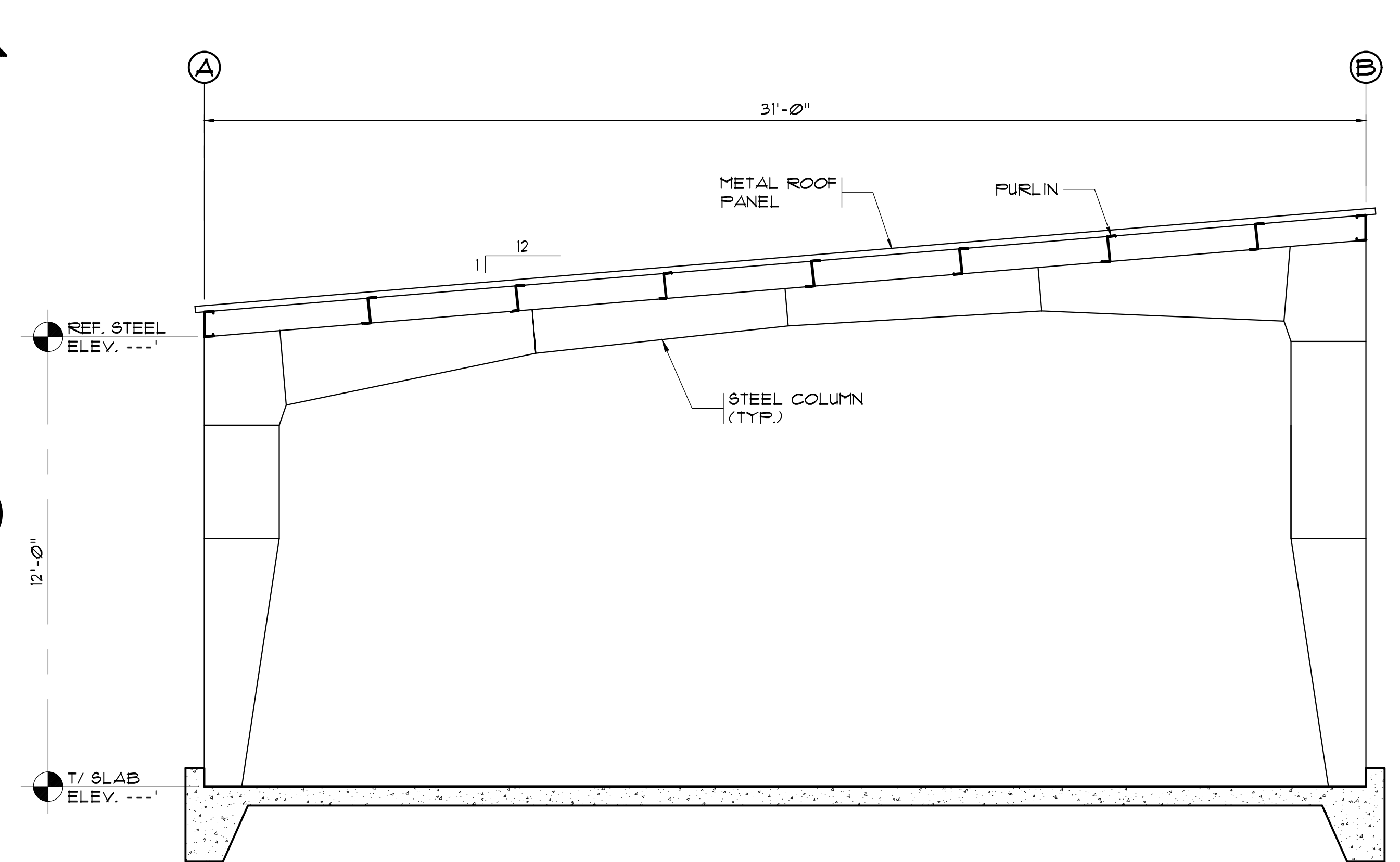
RECORD DRAWING AUGUST 2015 THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS DRAWING IS THE PROPERTY OF MBD CONSULTING ENGINEERS, P.A., IT IS NOT BEING LOANED, REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF MBD CONSULTING ENGINEERS, P.A. THE PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING. ANY INFORMATION THAT MAY BE INCORPORATED INTO THIS RECORD DRAWING HAS BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO VERIFY ALL INFORMATION FOR THEIR OWN PROJECT'S ACCURACY BEFORE RELYING ON IT FOR ANY PURPOSE.	1300 SECOND AVENUE SUITE 211 CONWAY, SC 29526 Phone: (843) 488-0124 Fax: (843) 488-0129	MBD CONSULTING ENGINEERS, P.A.	TRANSFER PUMP STATION SITE GRADING PLAN	BUCKSPORT WWTP TRANSFER PUMP STATION HORRY COUNTY, SOUTH CAROLINA	Scale: AS SHOWN
			Date: AUG 2015		
Drawn: ALR	Checked: JWM	Job No.: 33013	Sheet No.: 4A	Of: 2	Version: 2



TRANSFER PUMP STATION LAYOUT
SCALE: 3/8" = 1'-0"

NOTE:
SLOPE ALL FLOOR SLABS
TO DRAINS 1/4" PER 12" MIN.
(TYP.)

- NOTES:
1. MEASURED FROM OUTSIDE OF 6" CURB TO COLUMN CENTER LINE.
 2. MEASURED FROM OUTSIDE OF 6" CURB TO BACK OF COLUMN.



SECTION 1
SCALE: 3/8" = 1'-0"

26-061-006/9
AS-BUILT

1300 SECOND AVENUE
SUITE 211
CONWAY, SC 29526
Phone: (843) 488-0124
Fax: (843) 488-0129

BUCKSPORT WWTP
TRANSFER PUMP STATION

HORRY COUNTY, SOUTH CAROLINA

TRANSFER PUMP STATION
LAYOUT & SECTION

Scale:	AS SHOWN
Date:	AUG 2015
Drawn:	ALR
Checked:	JWM
Job No.:	33013
Sheet No.:	5
Of: 2	Version: 2

RECORD DRAWING AUGUST 2015
THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS DRAWING IS THE PROPERTY OF MBD CONSULTING ENGINEERS, P.A., IT IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF MBD CONSULTING ENGINEERS, P.A. MBD CONSULTING ENGINEERS, P.A. IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING. THE USER OF THIS RECORD DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. MBD CONSULTING ENGINEERS, P.A. HAS BEEN INCORPORATED INTO THIS RECORD DRAWING AS A RESULT OF THOSE HAVING BEEN INCORPORATED INTO THIS RECORD DRAWING. BEFORE RELYING ON IT FOR ANY PURPOSE.



26-061-007/9

AS-BUILT

**BUCKSPORT WWTP
TRANSFER PUMP STATION**
HORRY COUNTY, SOUTH CAROLINA

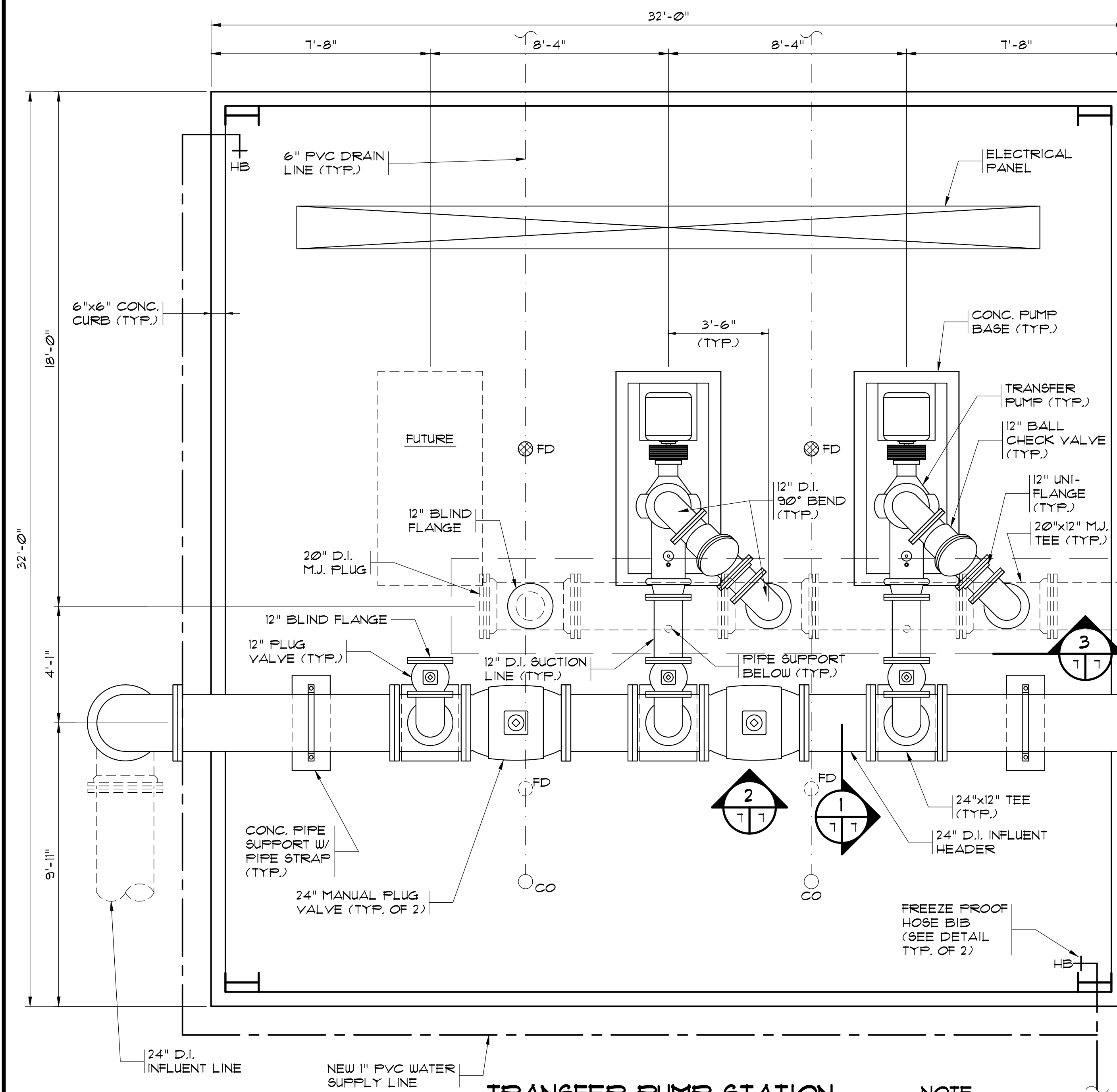
TRANSFER PUMP STATION EXTERIOR ELEVATIONS

MBD
CONSULTING
ENGINEERS, P.A.

1300 SECOND AVENUE
SUITE 211
CONWAY, SC 29526
Phone: (843) 488-0124
Fax: (843) 488-0129

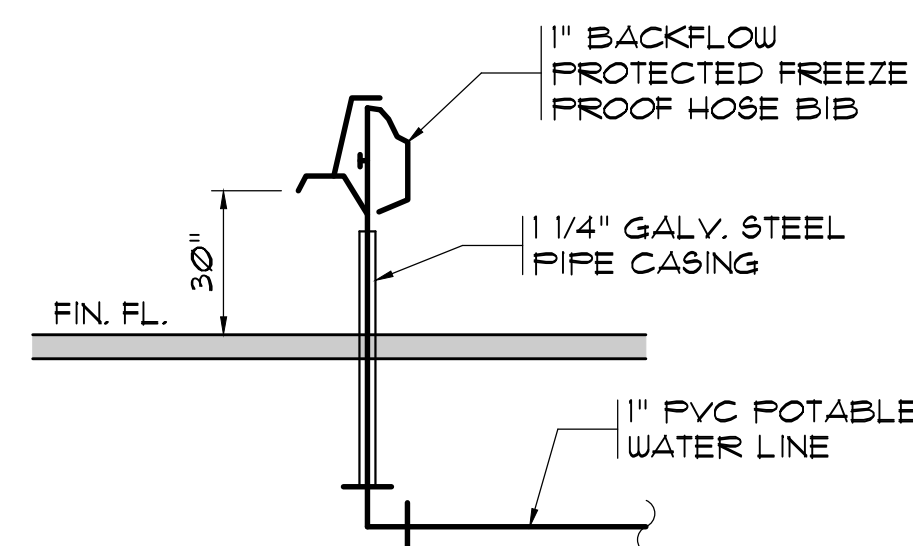
RECORD DRAWING **AUGUST 1 2015**

THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE RELYING ON IT FOR ANY PURPOSE.

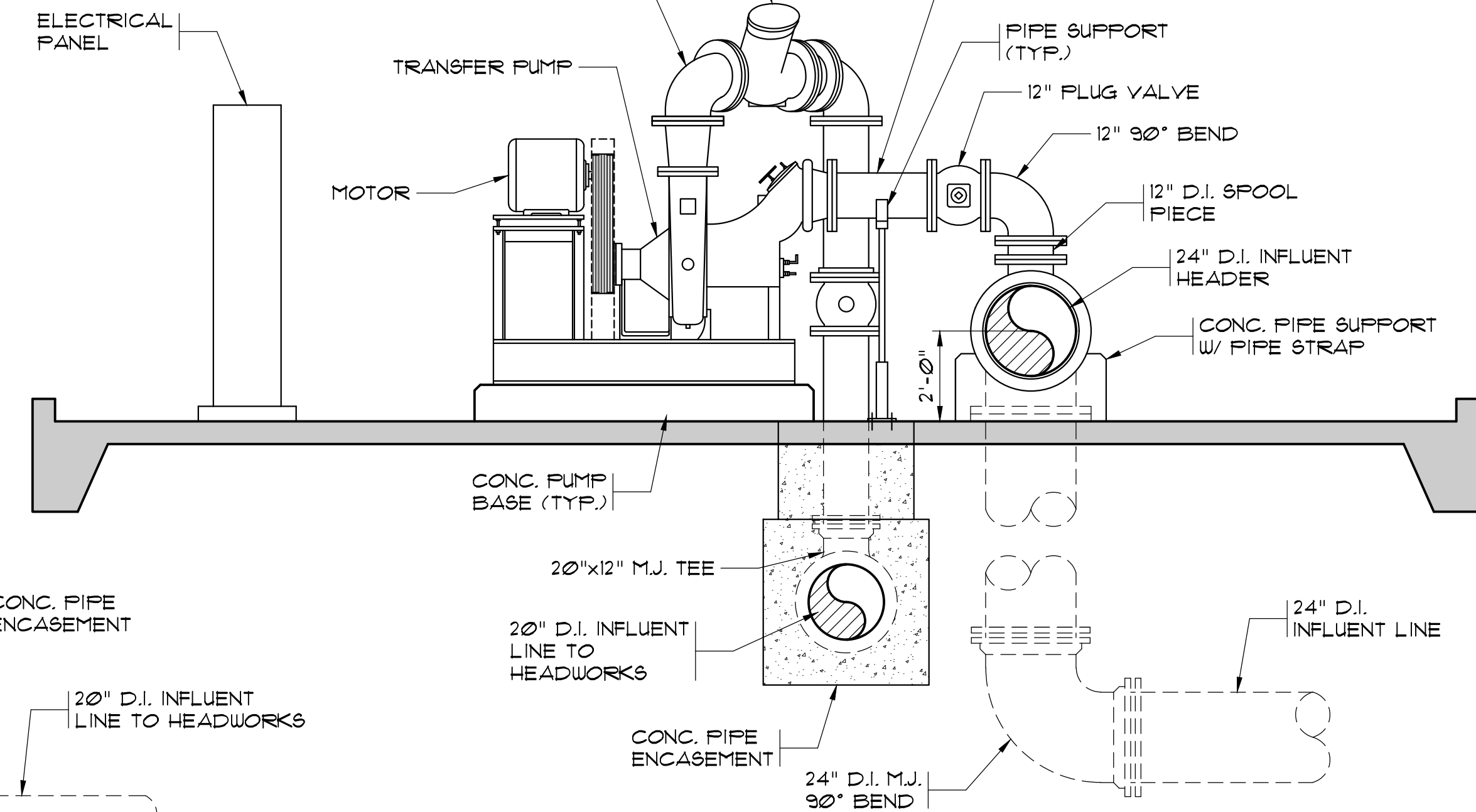


**TRANSFER PUMP STATION
PLAN VIEW**
SCALE: 3/8" = 1'-0"

NOTE:
SLOPE ALL FLOOR SLABS
TO DRAINS 1/4" PER 12" MIN.
(TYP.)

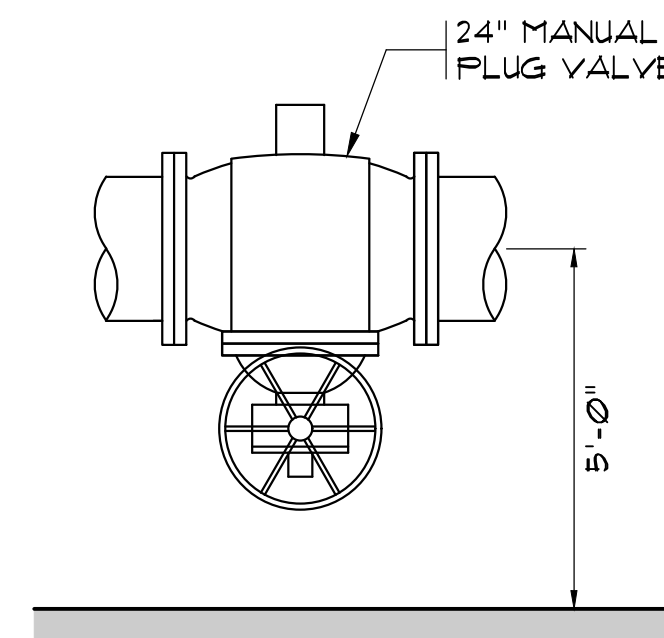


**1" BACKFLOW PROTECTED FREEZE
PROOF HOSE BIB DETAIL**
N.T.S.

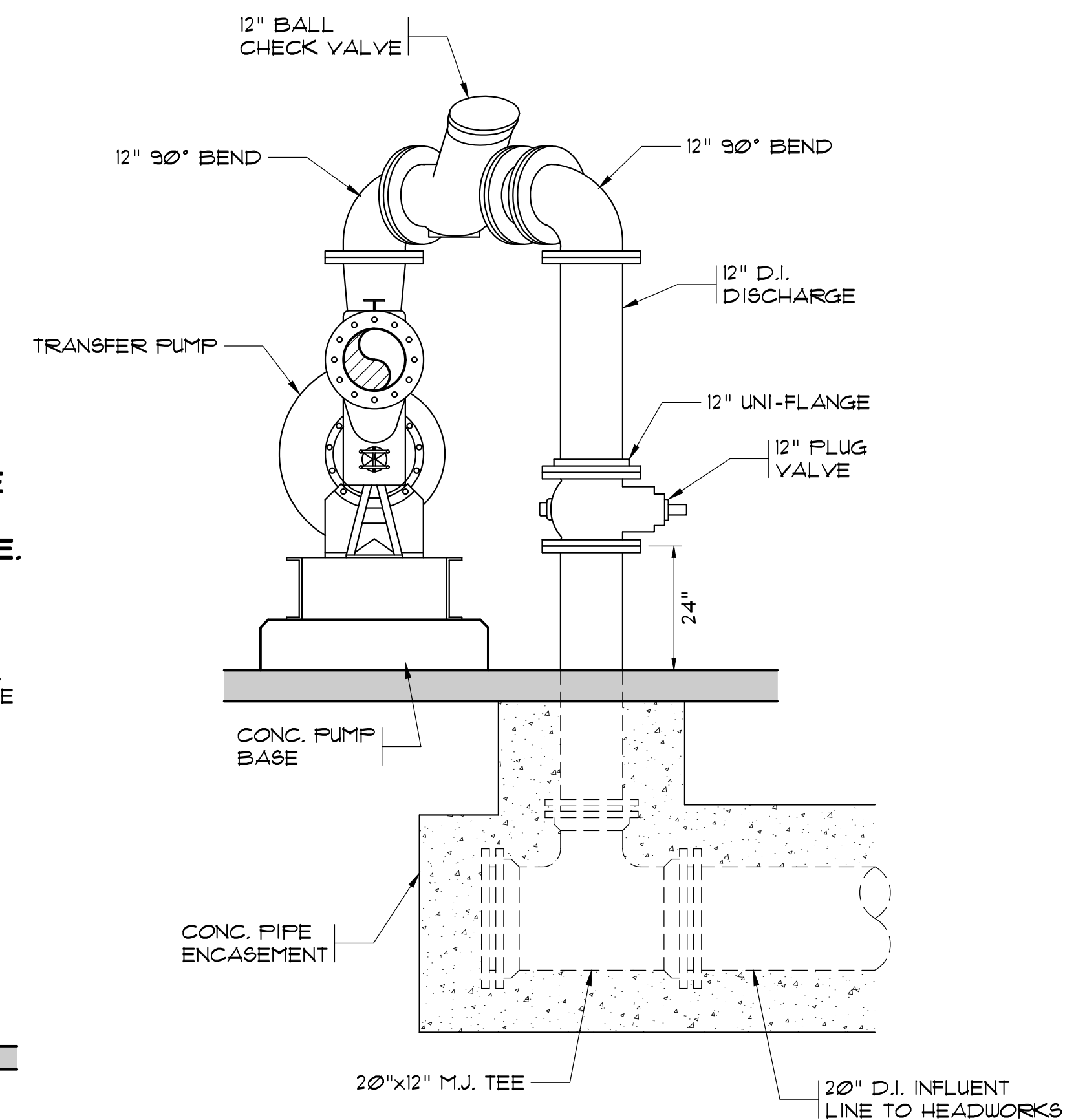


**TRANSFER PUMPS
ELEVATION VIEW**
SCALE: 3/8" = 1'-0"

NOTE:
ALL BELOW CONCRETE
PIPING SHALL BE
ENCASED IN CONCRETE.



2 ELEVATION
SCALE: 3/8" = 1'-0"



3 PUMP ELEVATION
SCALE: 1/2" = 1'-0"

26-061-008/9
AS-BUILT

RECORD DRAWING AUGUST 2015
THIS RECORD DRAWING HAS BEEN PREPARED IN PART BASED
UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS
DRAWING IS PREPARED BY MBD CONSULTING ENGINEERS, P.A.,
PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND THIS IS
NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD
DRAWING. ANY INFORMATION THAT MAY BE INCORPORATED
HEREIN HAS BEEN INCORPORATED INTO IT AS A RESULT OF
RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO
BEFORE RELYING ON IT FOR ANY PURPOSE.

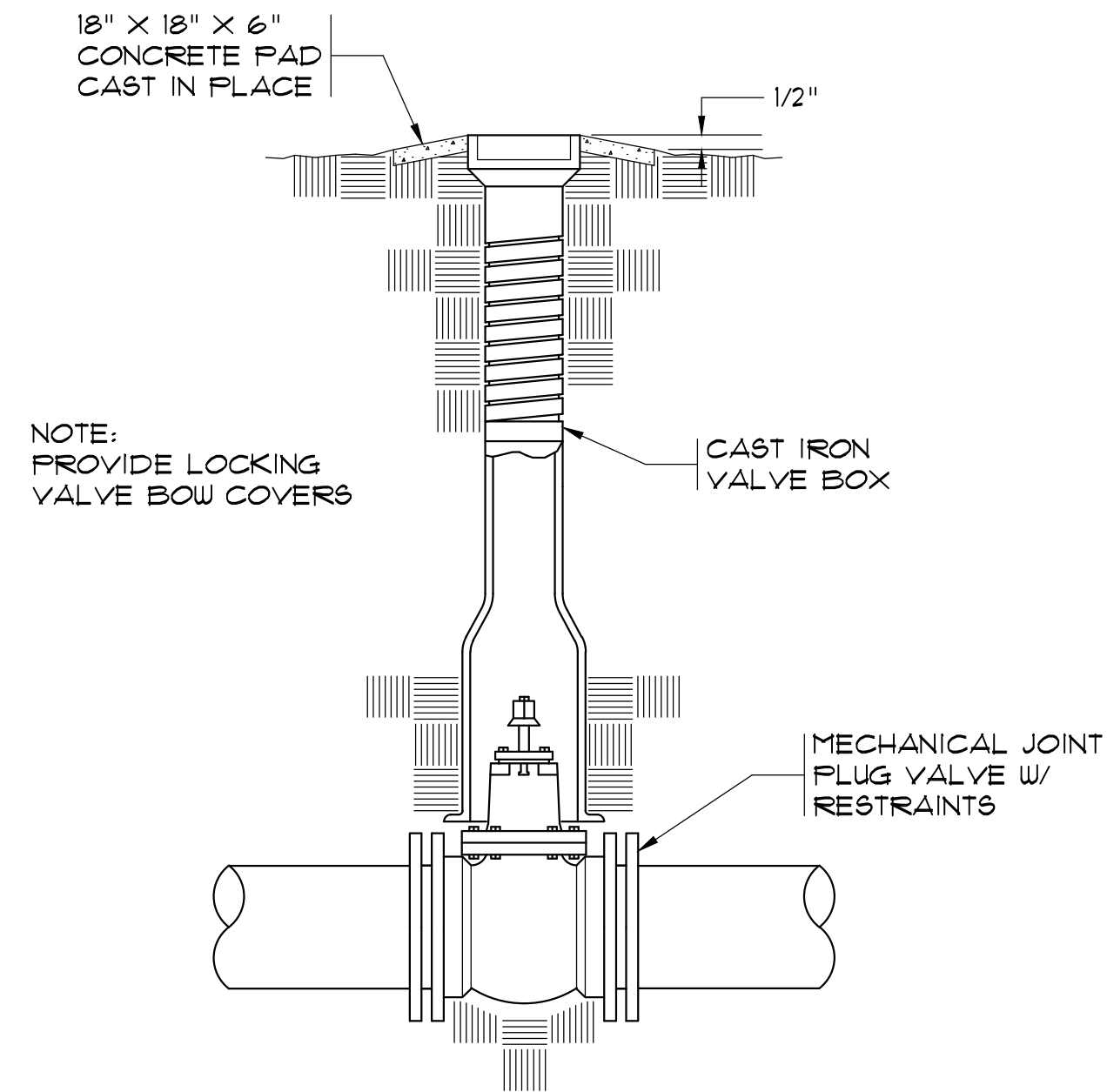
1300 SECOND AVENUE
SUITE 211
CONWAY, SC 29526
Phone: (843) 488-0124
Fax: (843) 488-0129

MBD
CONSULTING
ENGINEERS, P.A.

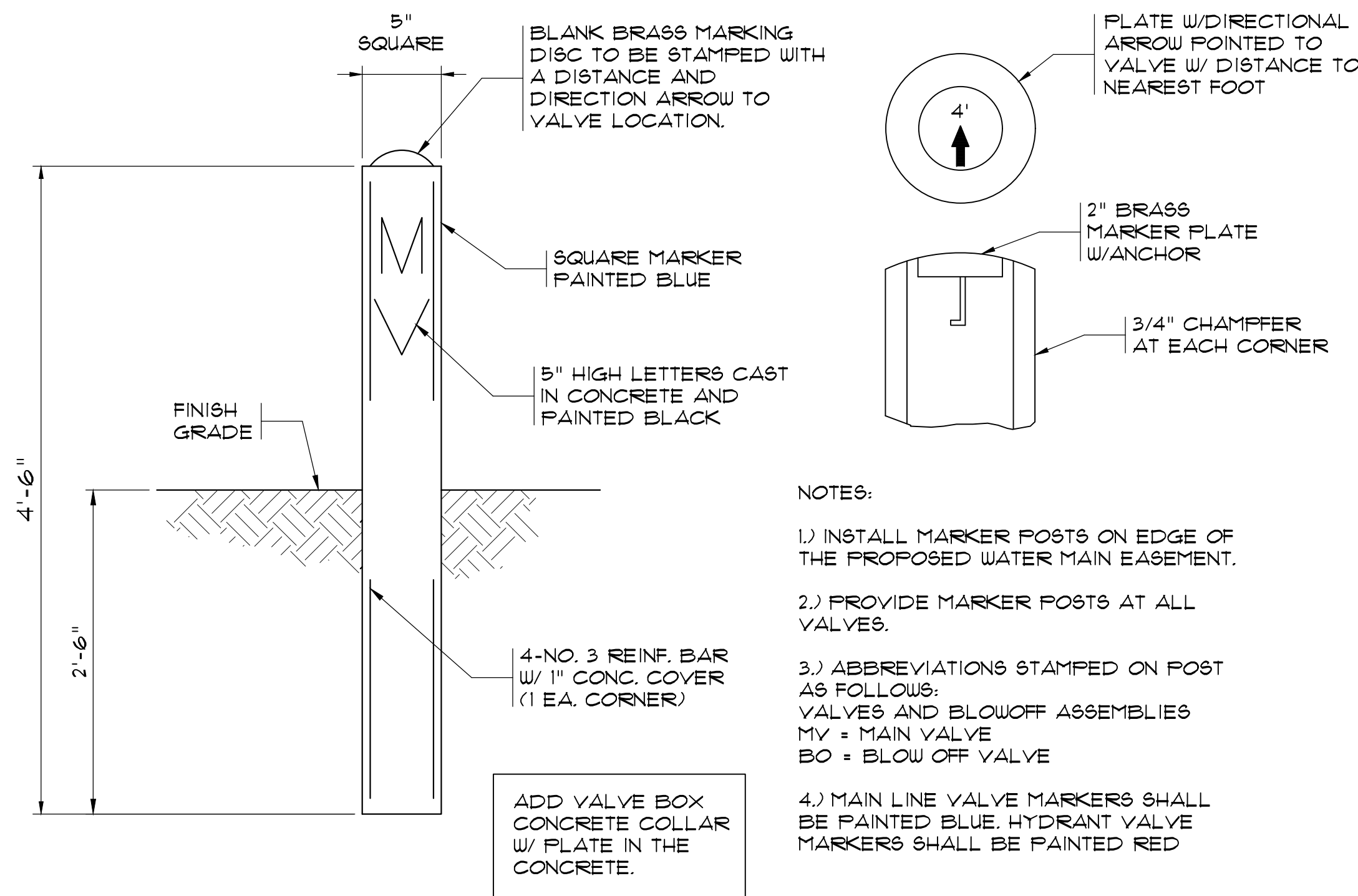
**TRANSFER PUMP STATION
LAYOUT & ELEVATIONS**

**BUCKSPORT WWTP
TRANSFER PUMP STATION**
HORRY COUNTY, SOUTH CAROLINA

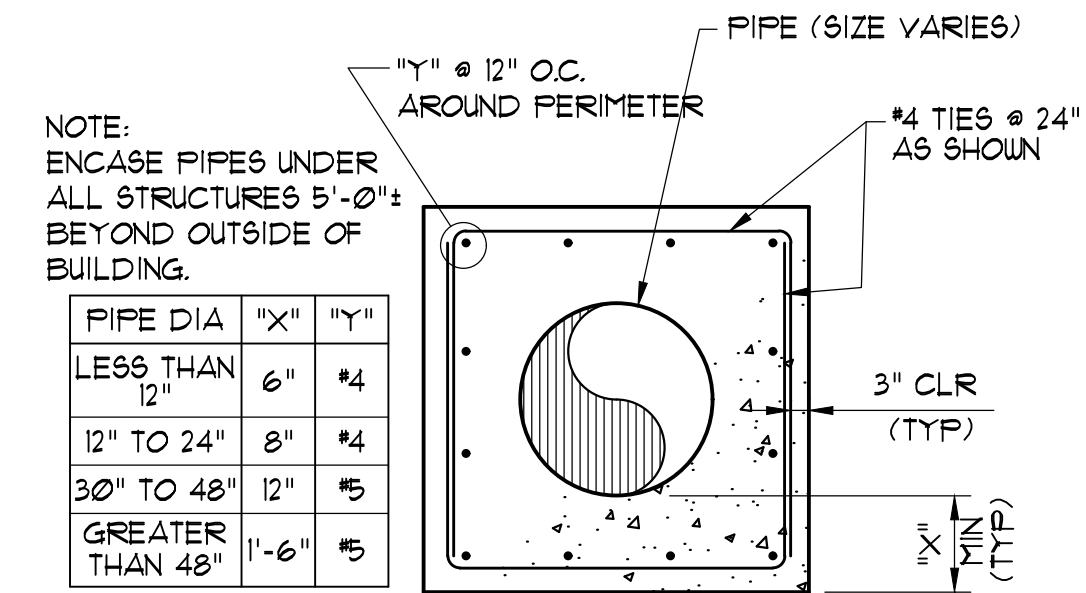
Scale: AS SHOWN
Date: AUG 2015
Drawn: ALR
Checked: JWM
Job No.: 33013
Sheet No.: 7
Of: 7 Version: 2



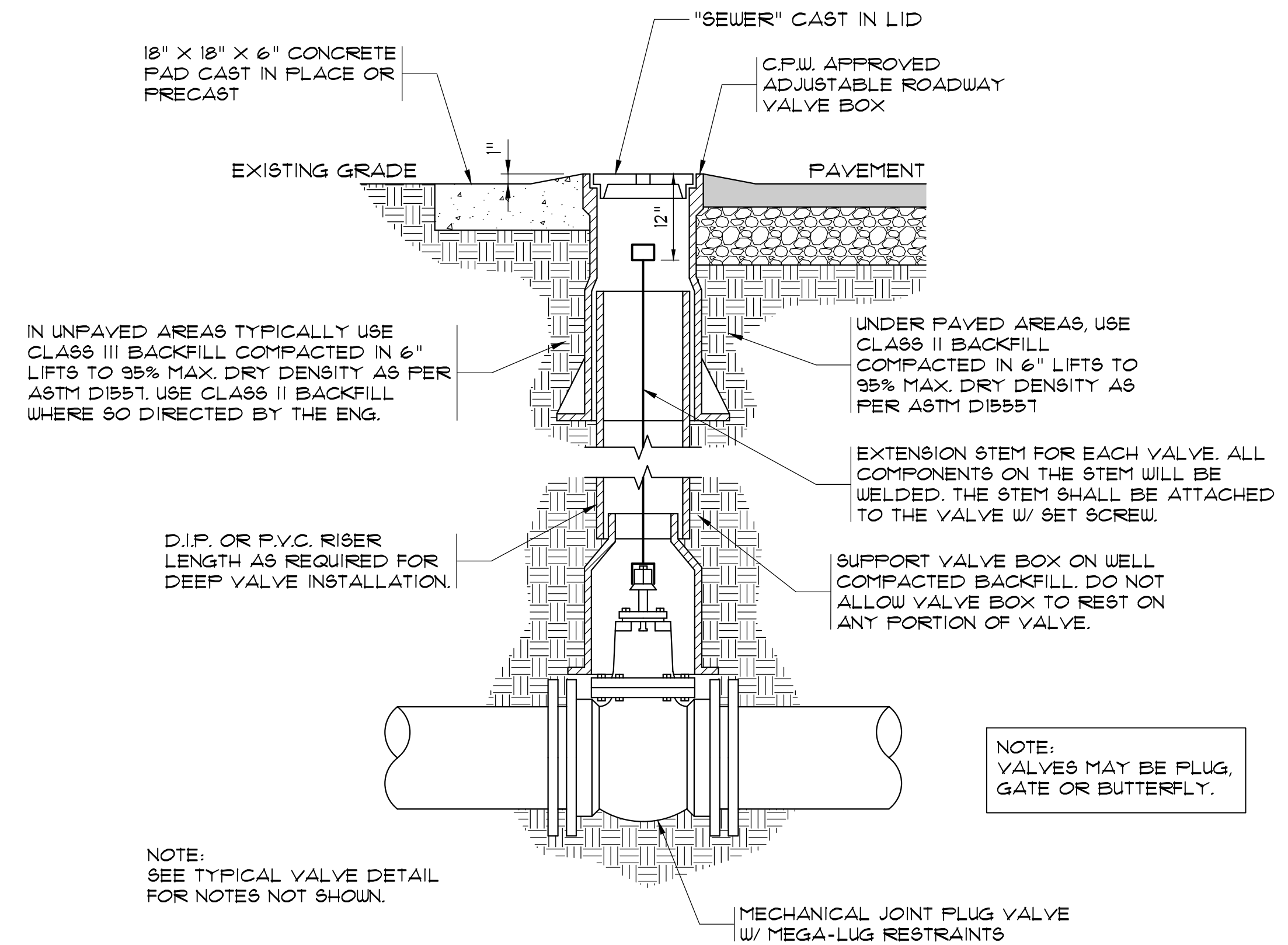
PLUG VALVE ASSEMBLY
N.T.S.



VALVE MARKER POST DETAIL
N.T.S.



TYPICAL PIPE ENCASEMENT DETAIL
N.T.S.



TYPICAL VALVE BOX ASSEMBLY
N.T.S.

- NOTES:
1. CENTER VALVE BOX OVER OPERATING NUT TO INSURE FREE VALVE OPERATION.
 2. USE 6" RISER PIPE ON 4" & 6" VALVES.
 3. USE 8" RISER PIPE ON 8" VALVES AND LARGER.

26-061-009/9
AS-BUILT