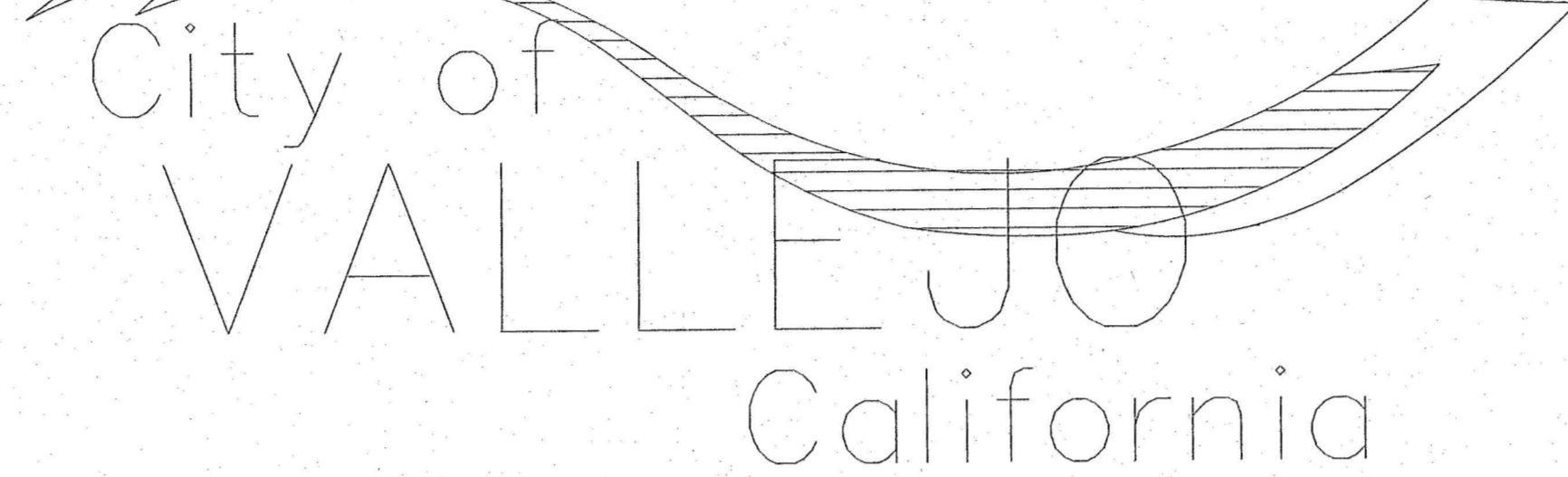
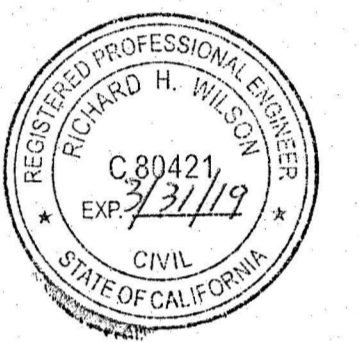


CITY OF VALLEJO

WATER DEPARTMENT



FHWTP FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 EQUIPMENT UPGRADE PROJECT WT 7093



CITY OF VALLEJO
WATER DEPARTMENT
APPROVED: *[Signature]*
RICHARD WILSON, P.E. - ENGINEERING MANAGER

INT. REVISION DATE MARK
CITY OF VALLEJO
FLEMING HILL WATER TREATMENT PLANT
FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093
TITLE SHEET
CITY PROJECT # WT 7093
DESIGN BY J JACKSON
DRAWN BY R. ZAMBRANA
CHECKED BY M. SOKOLU R. WILSON
DATE 02/12/18
SCALE NTS
SHEET 1
OF 21 SHEETS
DRAWING FILE # WT 7093

CITY COUNCIL

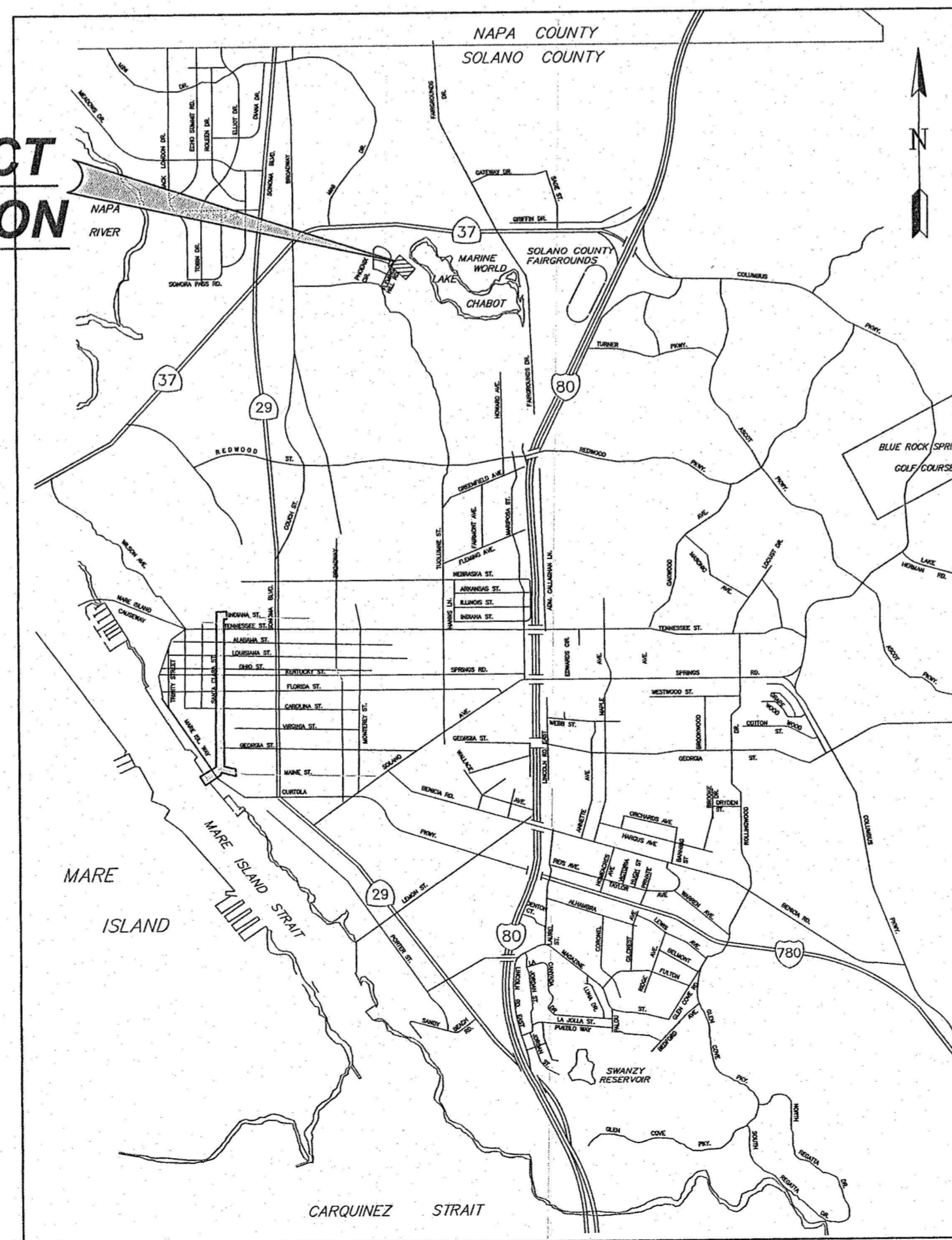
- Bob Sampayan - Mayor
- Katy Miessner - Vice Mayor
- Robert H. McConnell
- Pippin Dew-Costa
- Jesus Malgapo
- Hermie Sunga
- Rozzana Verder-Aliga, EdD

Approved for Construction:

[Signature]
Michael A. Malone
Water Director, City of Vallejo

9/17/18
Date

PROJECT LOCATION



PROJECT LOCATION MAP

INDEX OF DRAWINGS

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02	GENERAL NOTES, SCHEDULES, LEGENDS
03	BILL OF MATERIALS - BASINS 1 & 8 - CHAIN & FLIGHT EQUIPMENT
04	BILL OF MATERIALS - BASINS 1 & 8 - FLOCCULATION EQUIPMENT
05	DEMO PLAN - BASINS 1 & 8
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07	DEMO PLAN - BASINS 1 & 8
08	FLOCCULATION BASINS 1 & 8 - PLAN VIEW AND ROLLER BEARING VIEWS
09	FLOCCULATION BASINS 1 & 8 - STAGE 1 SECTION & DETAILS VIEWS
10	FLOCCULATION BASINS 1 & 8 - STAGE 2 SECTION & DETAILS VIEWS
11	FLOCCULATION BASINS 1 & 8 - STAGE 3 SECTION & DETAILS VIEWS
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16	SEDIMENTATION BASINS 1 & 8 - INSTALLATION AND LAYOUT - CROSS COLLECTOR
17	SEDIMENTATION BASINS 1 & 8 - DETAIL SHEET - CROSS COLLECTOR AND LONGITUDINAL HEAD SHAFT
18	SEDIMENTATION BASINS 1 & 8 - INSTALLATION AND LAYOUT - COLLECTOR EQUIPMENT
19	SEDIMENTATION BASINS 1 & 8 - INSTALLATION AND LAYOUT - DRIVE UNIT LAYOUT
20	SEDIMENTATION BASINS 1 & 8 - INSTALLATION AND LAYOUT - DRIVE UNIT LAYOUT
21	BASINS 1 & 8 - INSTALLATION AND LAYOUT - PIPING, SCUM TROUGHS AND OTHER MISCELLANEOUS EQUIPMENT

Elevations shown on these plans are based on the City of Vallejo Datum
City of Vallejo datum (COVD) = NAVD88 - 8.99
COVD = National Geodetic Vertical Datum 1929 (NGVD29) - 6.34
COVD = MID - 106.34
Mare Island Datum (MID) = NGVD29 + 100

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF EQUIPMENT. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE APPROVED OPERATION AND MAINTENANCE MANUAL.
- REFER TO BILL MATERIALS ON SHEET 3 & 4 FOR LIST OF EQUIPMENT TO BE PROVIDED BY THE CITY.
- ALL GROUT TO BE NON-SHRINK, FURNISHED & INSTALLED AFTER FINAL ADJUSTMENT & ALIGNMENT OF EQUIPMENT HAS BEEN VERIFIED BY THE EQUIPMENT MANUFACTURER.
- COAT ALL STAINLESS STEEL TO STAINLESS STEEL FASTENERS WITH AN ANTI-SEIZE COMPOUND. APPLIED PER MFG'S INSTRUCTIONS.
- LOCATE & MARK ANCHOR LOCATIONS AS SHOWN.
- DIMENSIONS ARE IN FEET - INCHES AND ARE CONSIDERED TYPICAL FOR ALL BASINS, UNLESS OTHERWISE NOTED.

CHAIN AND FLIGHT EQUIPMENT - GENERAL NOTES:

- LOCATE ALL EQUIPMENT FROM THEORETICAL TANK CENTER LINE. INSTALLATION TOLERANCES: SPROCKETS MUST BE LEVEL & PARALLEL TO EACH OTHER WITHIN ± 1/16" & PARALLEL TO THEORETICAL TANK CENTERLINE. STUB SHAFT/SPINDLE AXIS MUST ALIGN WITH ONE ANOTHER AND BE PERPENDICULAR TO THE THEORETICAL CENTERLINE WITHIN ± 1/16. FLIGHT ATTACHMENT LINK CENTER DISTANCE MUST BE WITHIN ± 1/8"
- INSTALL DRIVE CHAIN TENSIONER ASSEMBLIES AFTER FINAL INSTALLATION & ALIGNMENT OF NH-78 DRIVE & DRIVEN SPROCKETS & DRIVE CHAIN.
- LUBRICATE BEARING SLEEVE OF DRIVE UNIT AND COAT INPUT SHAFT WITH ANTI-SEIZE PRIOR TO INSTALLATION.
- CHECK LOCATIONS WITH TEST FIT OF EQUIPMENT TO BE INSTALLED, ADJUST POSITION IF NECESSARY, THEN DRILL AS SHOWN IN SCHEDULE. IF INTERFERENCE OR DISCREPANCY IS ENCOUNTERED, CONTACT POLYCHEMSYSTEMS. BEFORE INSTALLING ADDITIONAL EQUIPMENT.
- INSTALL CHAIN GUARDS & TAKE-UP ASSEMBLIES AFTER INSTALLING DRIVE UNITS, ALIGN DRIVE AND TAKE-UP SPROCKETS WITH DRIVEN SPROCKETS ON HEAD SHAFTS.
- ELEVATIONS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. IN CASES WHERE CLEARANCES ARE CRITICAL THE DIMENSION SHALL SERVE AS A MINIMUM REQUIREMENT FROM THE HIGHEST POINT ACROSS THE TANK WIDTH AND FROM THE FURTHEST POINT LONGITUDINALLY FOR THE LOWER IDLER AND THE CLOSEST POINT LONGITUDINALLY FOR THE TAIL SHAFT. +/- DIMENSIONS ARE APPROXIMATE AND COULD VARY THROUGHOUT THE TANK UPON FINAL ADJUSTMENTS. THEY SHOULD NOT BE USED TO INSTALL EQUIPMENT EXCEPT AT LOWER IDLER OR TAIL SHAFT WHERE THE +/- IS SUPPLIED TO ALLOW MOVEMENT FOR ALIGNMENT WITH THE OPPOSITE SIDE IDLER.
- ORIENTATION CRITICAL FOR COLLECTOR CHAIN, DRIVE CHAIN, WEAR STRIP, AND MANY OTHER COMPONENTS. REFER TO PERTINENT COMPONENT DRAWINGS PRIOR TO INSTALLATION.
- RETURN RAILS ARE TO BE FIELD DRILLED AND CUT TO LENGTH AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR FIELD MODIFYING CHAIN GUARD COVERS, AT APPROPRIATE LOCATIONS TO ACCOMMODATE INGRESS AND/OR EGRESS OF ELECTRICAL WIRING.

WATER NOTES:

- ALL MATERIALS TO BE IN CONTACT WITH POTABLE WATER SHALL BE NSF-61 APPROVED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION, DIAMETER, AND TYPE OF EXISTING PIPE SO THAT THE NEW PIPE CAN BE PROPERLY ALIGNED WITH AND FITTED TO THE EXISTING PIPE.
- DEFLECTION OF PIPE AT JOINTS SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
- BENDS MAY NOT BE USED EXCEPT WHEN SHOWN ON THE PLANS OR PERMITTED BY THE ENGINEER.
- THE INSIDE OF ALL PIPES AND FITTINGS MUST BE THOROUGHLY RINSED WITH A PROPER DISINFECTING AGENT PER AWWA C651-86.
- MISALIGNMENT SHALL BE CORRECTED BY THE REALIGNMENT OF EITHER OR BOTH PIPES TO BE CONNECTED. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND PIPE MATERIALS NEEDED TO CONNECT THE NEW PIPE TO THE EXISTING PIPE.

ANCHOR SCHEDULE FOR CHAIN AND FLIGHT EQUIPMENT:

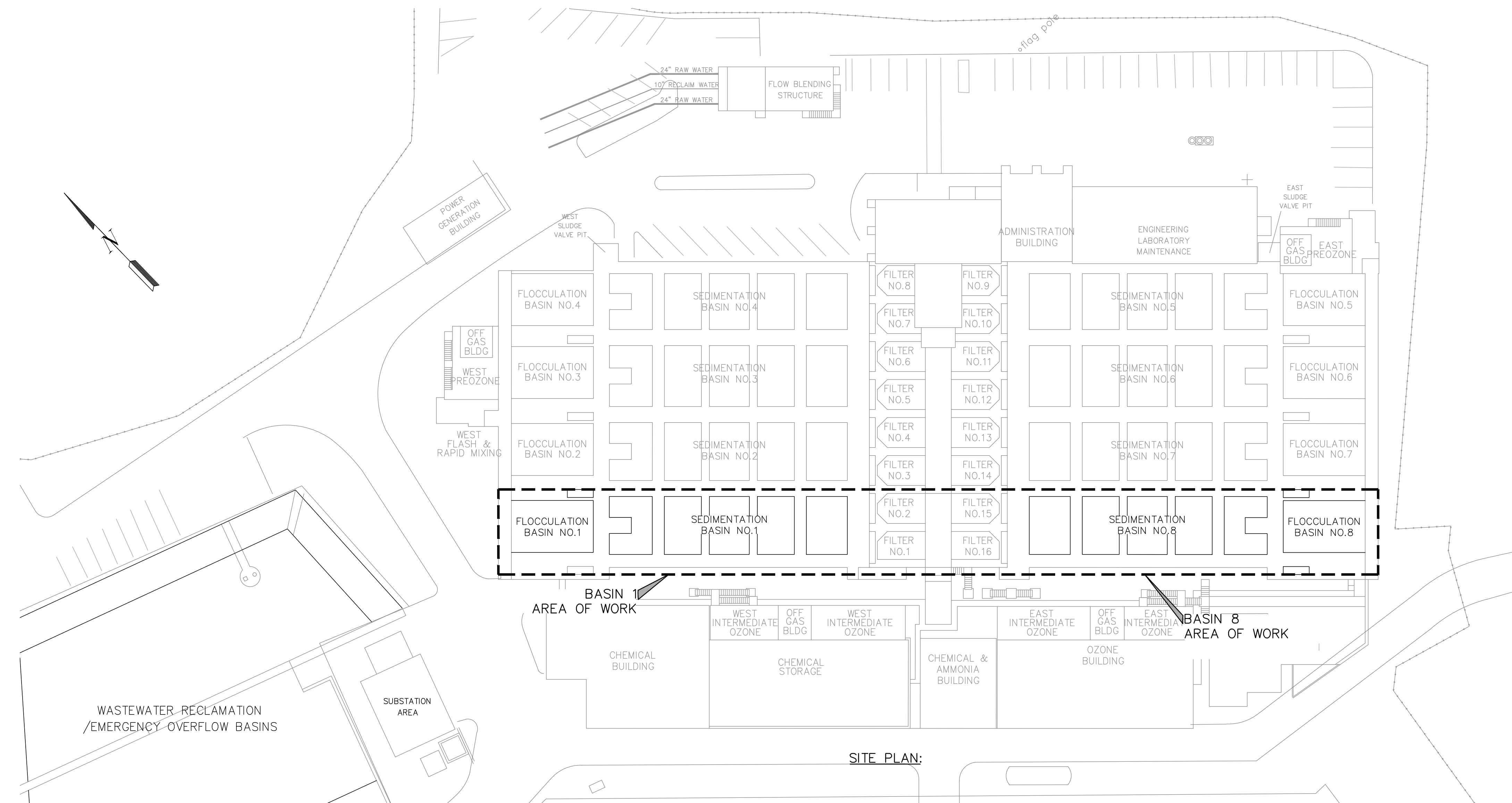
SYM.	ANCHOR SIZE	DRILL SIZE	EMBED	PROJ	MIN EDGE DIST	BOM ITEM
A	1"	1 1/8"	8 1/4"	5 1/2"	5"	23
B	1/2"	9/16"	4"	4"	2 1/2"	N/A
C	1/2"	9/16"	4"	1 3/4"	2 1/2"	39
D	5/8"	3/4"	5"	5"	3 1/8"	51
E	3/8"	7/16"	3"	1 3/4"	1 7/8"	44
F	3/4"	1 1/4"	8 7/8"	0"	33/4"	33

ABBREVIATIONS:

ⓐ	ANCHOR TYPE CALLOUT
@	AT
ⓑ	BOM ITEM CALLOUT
ⓐ	GRID DATUM
ⓐ	DETAIL CALLOUT
ⓐ	DRAWING LABEL
ⓐ	DRAWING NUMBER(S) WHERE TAKEN
ⓐ	FLAG NOTE - SEE NOTE THAT SHEET
ⓐ	FLOOR SLOPE - TO LONG LINES
ⓐ	MAXIMUM WATER LEVEL EL
[DIM]	REFERENCE DIMENSION
<DIM>	DIMENSION REQUIRES VERIFICATION/CONFIRMATION
ⓐ	REVISION CALLOUT
ⓐ	VIEW CALLOUT
CONCRETE	CONCRETE
GROUT	GROUT
STEEL	STEEL
PLASTIC	PLASTIC
W/	WITH
REMOVED FOR SANDBLASTING AND COATING	REMOVED FOR SANDBLASTING AND COATING
REMOVE	REMOVE

ABBREVIATIONS:

APPROX	APPROXIMATE
ASSY	ASSEMBLY
ATH	ALL THREAD (USED TO DESCRIBE ANCHOR ROD)
BLT	BOLT
BOM	BILL OF MATERIALS
BRG	BEARING
BRKT	BRACKET
CFW	CONICAL FLANGED WASHER
CHP	CROSS COLLECTOR HIGH POINT (FLOOR HIGH POINT)
CL	CENTERLINE
CLP	CROSS COLLECTOR LOW POINT (FLOOR LOW POINT)
DIMS	DIMENSIONS
DIST	DISTANCE
DPDT	DOUBLE POLE DOUBLE THROW
EL	ELEVATION
ENG	ENGLISH, DESCRIPTOR FOR ENGLISH THREAD HARDWARE
EQPT	EQUIPMENT
FCANC	FEMALE CONICAL ANCHOR
FL	FLOOR
FLT	FLIGHT
FRP	FIBER REINFORCED PLASTIC (FIBERGLASS)
FT/M	FEET PER MINUTE
FW	FLAT WASHER
HDM	HAND DISPENSER MANUAL (HILTI ABBREVIATION)
HDSFT	HEADSHAFT
HN	HEX NUT
INTLK	INTERLINK KEY
KEY	KEY
LHP	LONGITUDINAL HIGH POINT (FLOOR HIGH POINT)
LLP	LONGITUDINAL LOW POINT (FLOOR LOW POINT)
LN	LOCK NUT
LONG	LONGITUDINAL
LVL	LEVELING, DESCRIPTOR FOR VOLT USAGE
LW	LOCKER WASHER
MAX	MAXIMUM
MIN	MINIMUM
MM	MISALIGNMENT MONITORING
MTG	MOUNTING
NCS	DESCRIPTOR FOR NON-METALLIC 720 SERIES CHAIN
NH	DESCRIPTOR FOR NON-METALLIC 78 SERIES CHAIN
NM	NON-METALLIC
OPNG	OPENING
OPP	OPPOSITE
PA	POLYAMIDE USED WITH 6 OR 6/6 ABBREV. FOR NYLON MATERIAL
PC	POLYCARBONATE
PE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
PLCS	PLACES
RED	REDUCER
SCR	SCREW
SMM	MOTION MONITORING
SPRKT	SPROCKET
SS	STAINLESS STEEL
THRU	THROUGH
TLSFT	TAIL SHAFT
TOP	TOP OF DECK
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WL	WATER LEVEL
WS	WEAR STRIP



SITE PLAN:

9/17/2018 3:20 PM V:\WATER\7093 - FH\WTP SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\CA07093 - FH\WTP-BASINS 1 AND 8 REVISED.DWG

INIT.									
REVISION									
MARK									
DATE									
CITY OF VALLEJO WATER DEPARTMENT									
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER									
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 GENERAL NOTES, SCHEDULES, LEGENDS									
CITY PROJECT # WT 7093 DESIGN BY J JACKSON DRAWN BY R. ZAMBRANA CHECKED BY M. SOKOLU R. WILSON DATE 02/12/18 SCALE AS SHOWN SHEET									
2 OF 21 SHEETS DRAWING FILE # WT 7093									

9/17/2018 3:20 PM V:\WATER\7093 - FH/TP SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FH/TP BASINS 1 AND 8 REVISED.DWG

BILL OF MATERIALS – CHAIN AND FLIGHT EQUIPMENT – BASIN 1:PROVIDED BY THE CITY

Table with 5 columns: ITEM, PART NUMBER, QTY, UNITS, DESCRIPTION. Lists materials for Basin 1 including chain strands, sprockets, shafts, and hardware.

BILL OF MATERIALS – CHAIN AND FLIGHT EQUIPMENT – BASIN 8:PROVIDED BY THE CITY

Table with 5 columns: ITEM, PART NUMBER, QTY, UNITS, DESCRIPTION. Lists materials for Basin 8, identical to Basin 1 but with different part numbers.

BILL OF MATERIALS – NOTES:

- 1. CHAIN AND FLIGHT, FLOCCULATION AND OTHER EQUIPMENT AND MATERIALS ARE BEING PROVIDED BY THE CITY OF VALLEJO AS DETAILED IN THE BILL OF MATERIALS.
2. ANY ADDITIONAL EQUIPMENT, MATERIALS AND MISCELLANEOUS ANCHORS, SCREWS, BOLTS, NUTS, ADHESIVE ANCHORING SYSTEM, ETC. REQUIRED TO COMPLETE THE PROJECT BEYOND WHAT IS PROVIDED SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. MISCELLANEOUS PIPING, VALVES, FITTINGS AND OTHER PIPING EQUIPMENT AND MATERIALS ARE TO BE FURNISHED BY THE CONTRACTOR. ESTIMATED QUANTITIES (BASIN 1) FOR THE PIPING ARE AS FOLLOWS: 1 1/2" PIPE - 200 LF, 2" PIPE - 90 LF, 4" PIPE - 180 LF, 6" PIPE - 130 LF. ESTIMATED QUANTITIES (BASIN 2) FOR PIPING ARE AS FOLLOWS: 2" PIPE - 15 LF, 4" PIPE - 40 LF, 6" PIPE - 130 LF. CONTRACTOR SHALL FIELD VERIFY THE QUANTITIES FOR PIPING, VALVES, FITTINGS AND OTHER MATERIALS.

Vertical sidebar containing: CITY OF VALLEJO WATER DEPARTMENT, PROJECT WT 7093, FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE, BILL OF MATERIALS BASIN 1 & 8 CHAIN & FLIGHT EQUIPMENT, and revision table.

BILL OF MATERIALS – FLOCCULATION EQUIPMENT BASIN 1 & 8: PROVIDED BY THE CITY



ITEM	QTY.	SAP PN	LEGACY PN/ DRAWING NO	DESCRIPTION	MAT'L	WT
STAGE 1 (BASIN #1 & #8)						
35	2		12699-120-100-316SS	COMPRSSN CPLG - RIBBED (2.94X2.44)	316SS	110
36	2		12699-111-100-316SS	STUFFING BOX ASSEMBLY - 2.437" DIA	316SS	90
37	2		12699-114-3	COUPLING - TAPERED GRID + COVER		
40	8		12699-115-100-316SS	TURBINE DISC ASSY (HALF)	316SS	1424
41	40		12699-115-4-316SS	TURBINE DISC BLADE	316SS	
42	40		12699-115-5-316SS	TURBINE DISC BLADE	316SS	
44	4		12699-209-103-316SS	SHAFT EXTENSION ASSY (62.69" LG)	316SS	648
			12699-114-2	HALF COUPLING SWEATED ONTO SHAFT END		
45	2		12699-124-100-316SS	TURBINE HUB SHAFT ASSY (149.75" LG)	316SS	700
46	2		12699-124-101-316SS	TURBINE HUB SHAFT ASSY (137.88" LG)	316SS	650
52	2		12699-123-100-316SS	COMPRSSN CPLG - RIBBED (2.94X2.94)	316SS	10
100	2		12699-114-1	HALF COUPLING SWEAT ONTO REDUCER SHAFT		
STAGE 2 (BASIN #1 & #8)						
77	4		12699-113-100-316SS	COMPRSSN CPLG - RIBBED (2.44X2.44)	316SS	220
78	2		12699-111-100-316SS	STUFFING BOX ASSEMBLY - 2.437" DIA	316SS	90
80	2		12699-114-3	COUPLING - TAPERED GRID + COVER		
84	32		12699-203-1	PADDLE BLADE (LAMINATED FIR)	WOOD	868
87	16		12699-205-1-316SS	PADDLE ARM	316SS	144
88	16		12699-205-2-316SS	PADDLE ARM	316SS	144
89	32		12699-206-1-316SS	CROSS BRACE - PADDLE ARM	316SS	360
90	64		12699-207-1-316SS	REINFORCEMENT PLATE - PADDLE ARM	316SS	17
95	2		12699-209-101-316SS	SHAFT ASSY - PADDLE HUB (149.75"LG)	316SS	576
96	2		12699-209-102-316SS	SHAFT ASSY - PADDLE HUB (137.88"LG)	316SS	540
99	2		12699-209-103-316SS	SHAFT "EXTENSION" ASSY (62.69" LG)	316SS	162
			12699-114-2	HALF COUPLING SWEATED ONTO SHAFT END		
100	2		12699-114-1	HALF COUPLING SWEAT ONTO REDUCER SHAFT		
STAGE 3 (BASIN #1 & #8)						
77	4		12699-113-100-316SS	COMPRSSN CPLG - RIBBED (2.44X2.44)	316SS	220
78	2		12699-111-100-316SS	STUFFING BOX ASSEMBLY - 2.437" DIA	316SS	90
79	2		12699-114-101	COUPLING ASSY (2.88X2.44)		78
84	24		12699-203-1	PADDLE BLADE (LAMINATED FIR)	WOOD	868
85	8		12699-204-1-316SS	PADDLE ARM	316SS	144
86	8		12699-204-2-316SS	PADDLE ARM	316SS	144
89	16		12699-206-1-316SS	CROSS BRACE - PADDLE ARM	316SS	360
90	48		12699-207-1-316SS	REINFORCEMENT PLATE - PADDLE ARM	316SS	17
94	2		12699-209-100-316SS	SHAFT EXTENSION ASSY (62.69" LG)	316SS	230
95	2		12699-209-101-316SS	SHAFT ASSY - PADDLE HUB (149.75"LG)	316SS	576
96	2		12699-209-102-316SS	SHAFT ASSY - PADDLE HUB (137.88"LG)	316SS	540
100	2		12699-114-1	HALF COUPLING SWEAT ONTO REDUCER SHAFT		
COMPLETE						

PILLOW BLOCK BEARINGS FOR FLOCCULATION EQUIPMENT,
SCUM TROUGHS, CROSSES FOR SCUM TROUGHS AND
LAUNDERS ARE PROVIDED BY THE CITY.

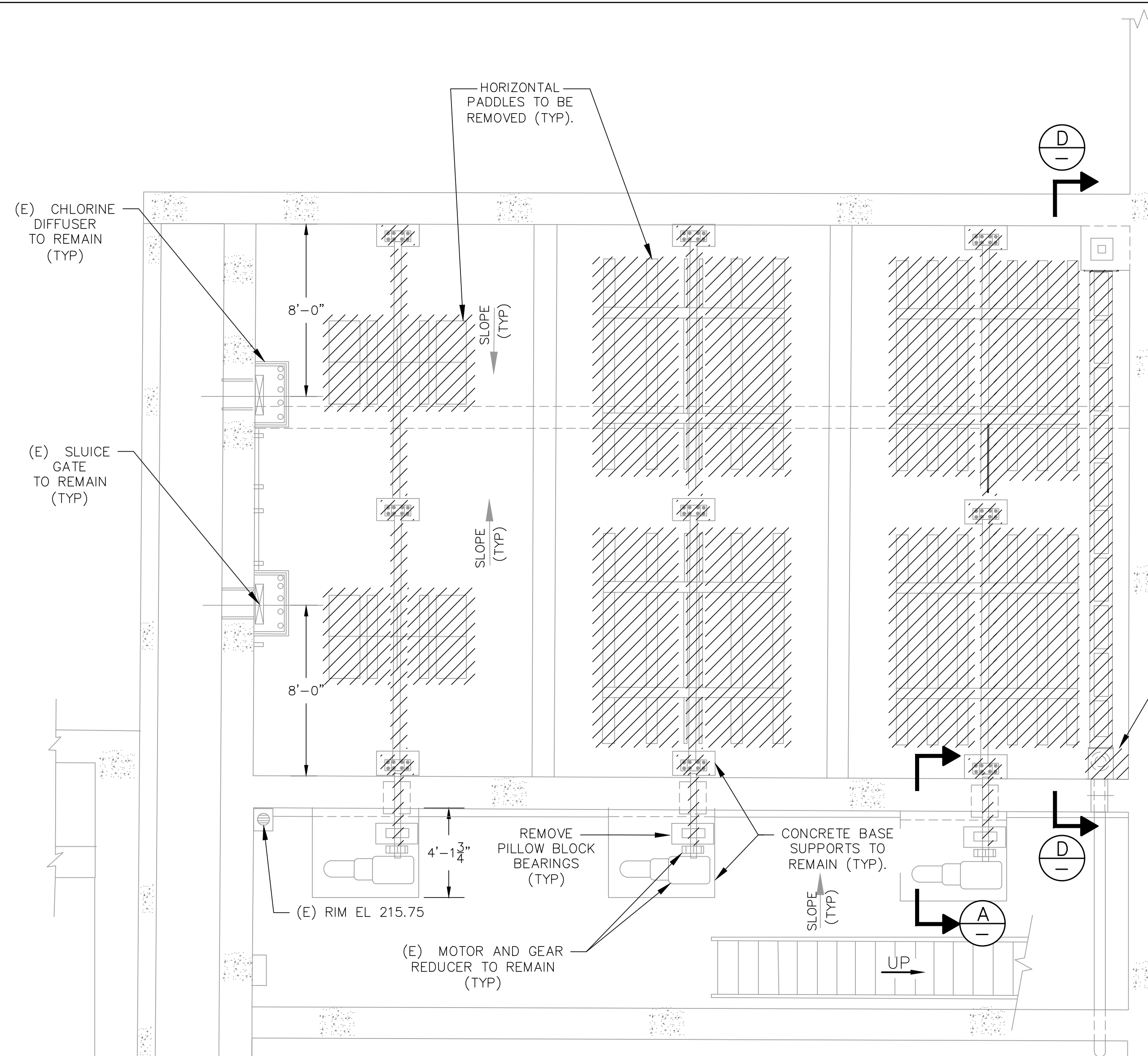
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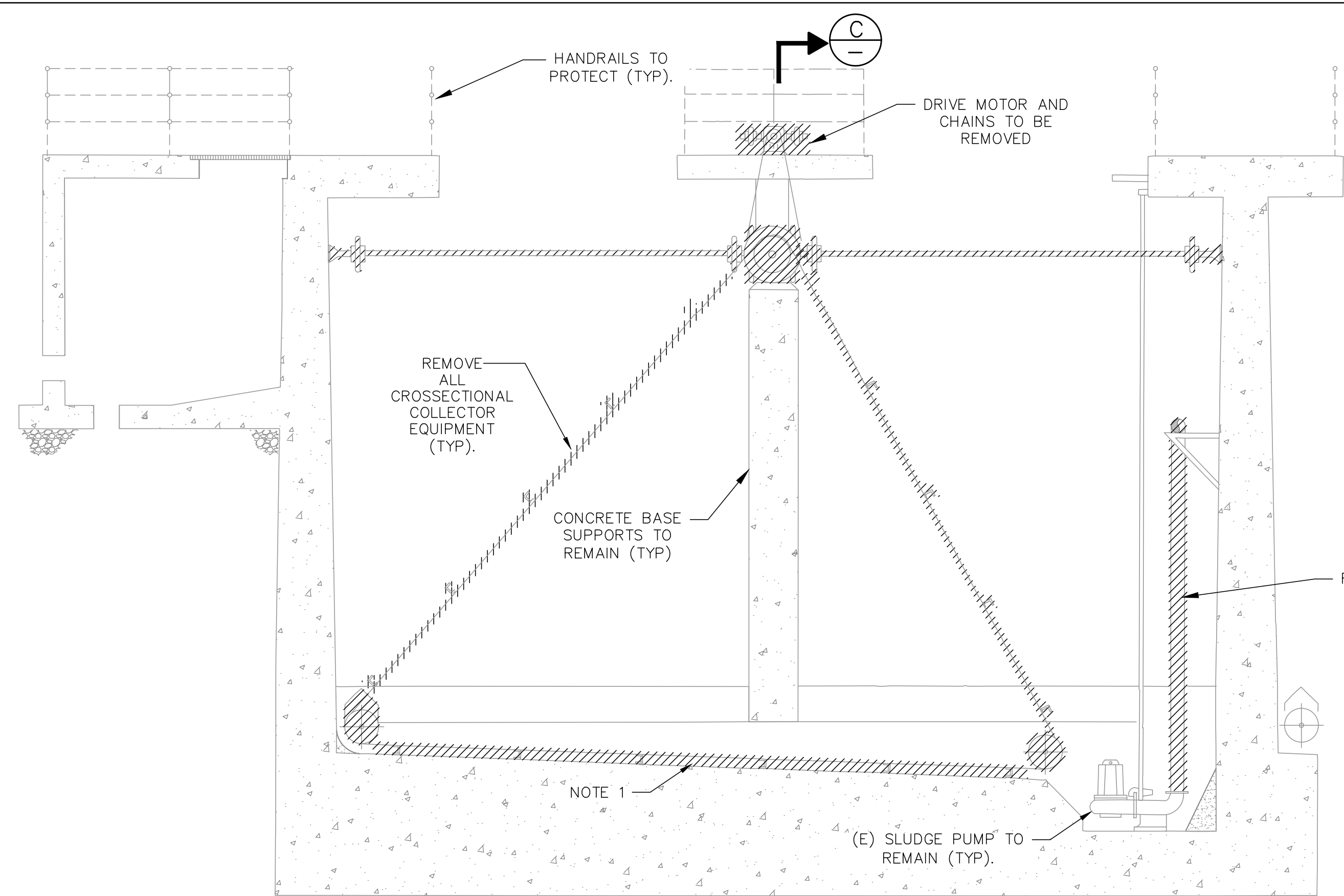
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DATE									
									
CITY OF VALLEJO WATER DEPARTMENT									
APPROVED:  RICHARD WILSON, PE. – ENGINEERING MANAGER									
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 BILL OF MATERIALS BASIN 1 & 8 FLOCCULATION EQUIPMENT									
CITY PROJECT # WT 7093									
DESIGN BY J JACKSON									
DRAWN BY R. ZAMBRANA									
CHECKED BY M. SOKOL R. WILSON									
DATE 02/12/18									
SCALE N/A									
SHEET 4									
OF 21 SHEETS DRAWING FILE # WT 7093									

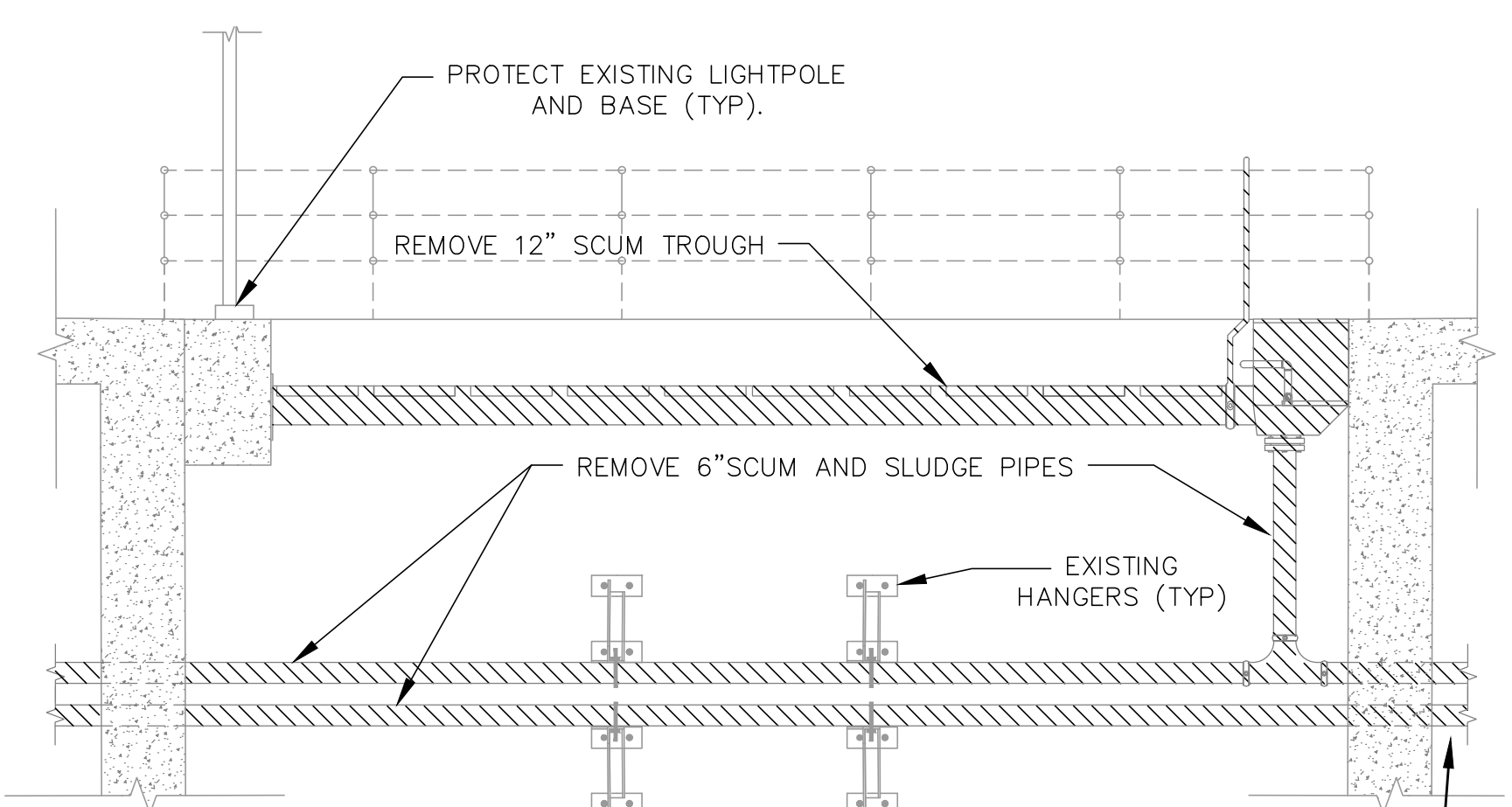
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FLOCCULATION BASIN 1
NTS



CROSS AND LONGITUDINAL COLLECTOR SECTION
NTS



DETAIL
NTS

BASIN NOTES

1. LOCATIONS FOR BASIN 8 ARE MIRROR LOCATIONS OF BASIN 1.

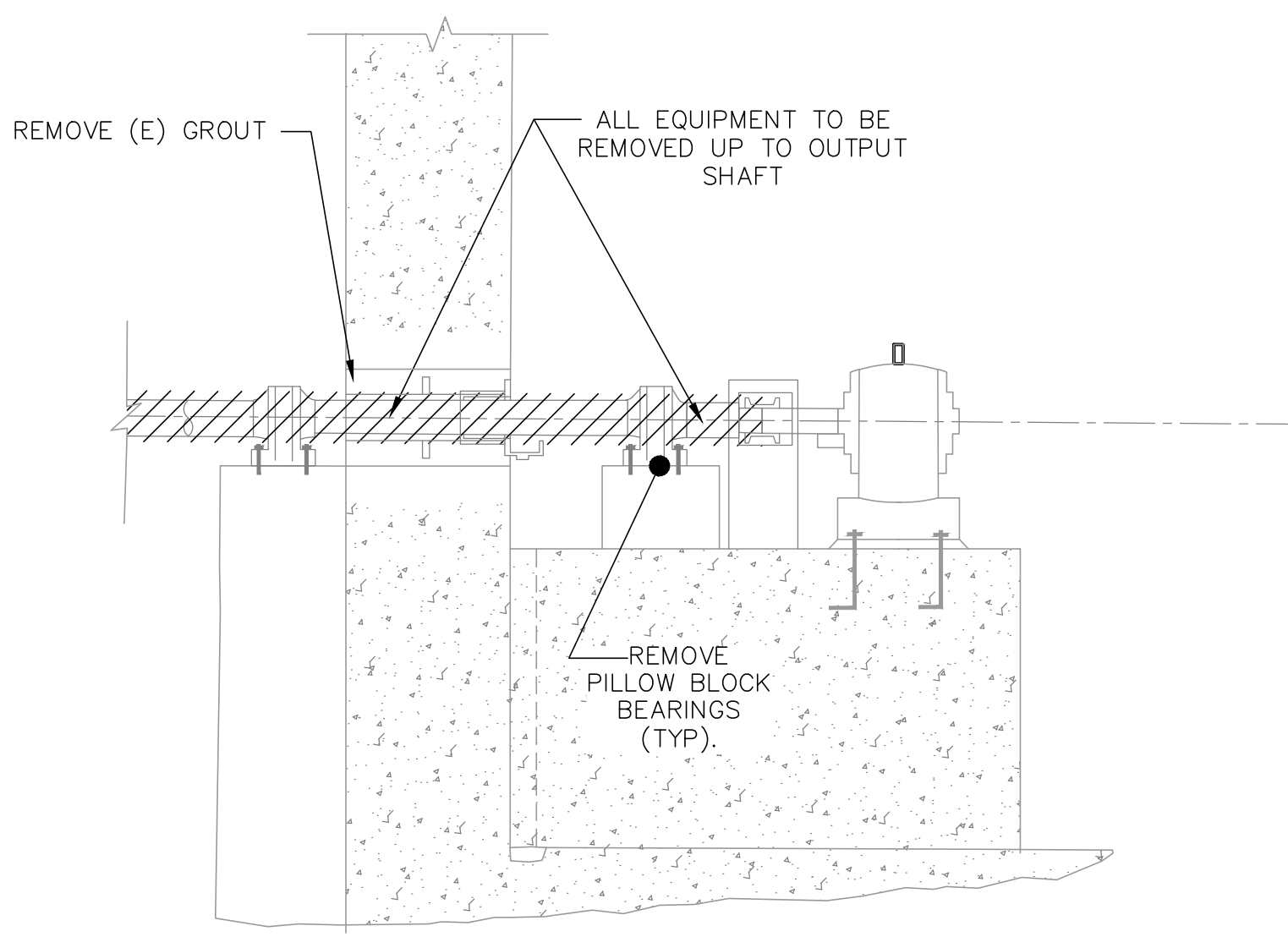
CHAIN & FLIGHT DEMO NOTES:

1. LONGITUDINAL STAINLESS STEEL RETURN RAILS ARE TO REMAIN.
2. ALL LONGITUDINAL AND CROSS COLLECTOR EQUIPMENT TO BE DEMOLISHED.
3. ALL MATERIALS AND EQUIPMENT REMOVED SHALL BE SALVAGED AND DISPOSED BY THE CONTRACTOR.

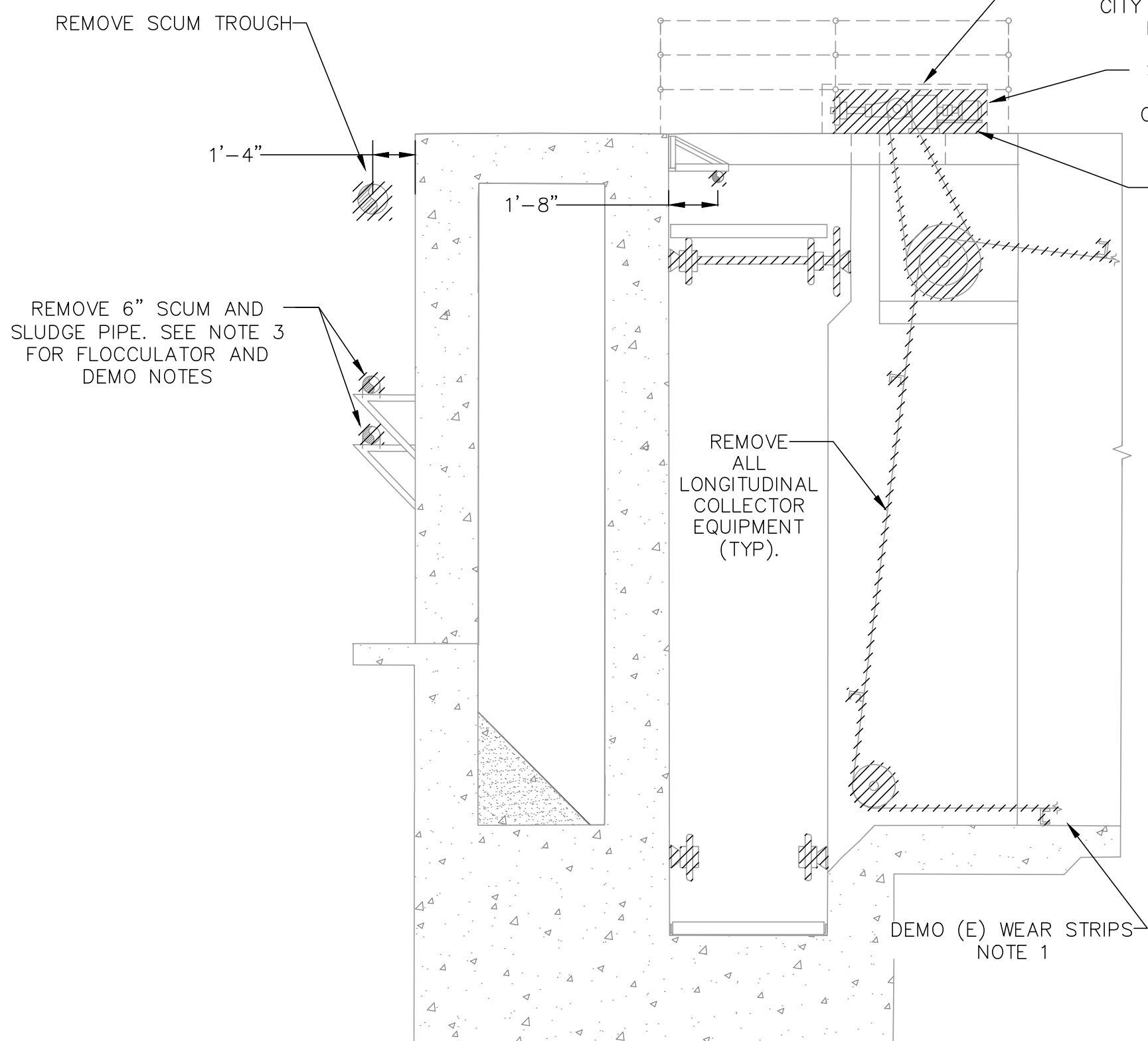
LEGEND:

REMOVE AND REPLACE

DETAIL
NTS



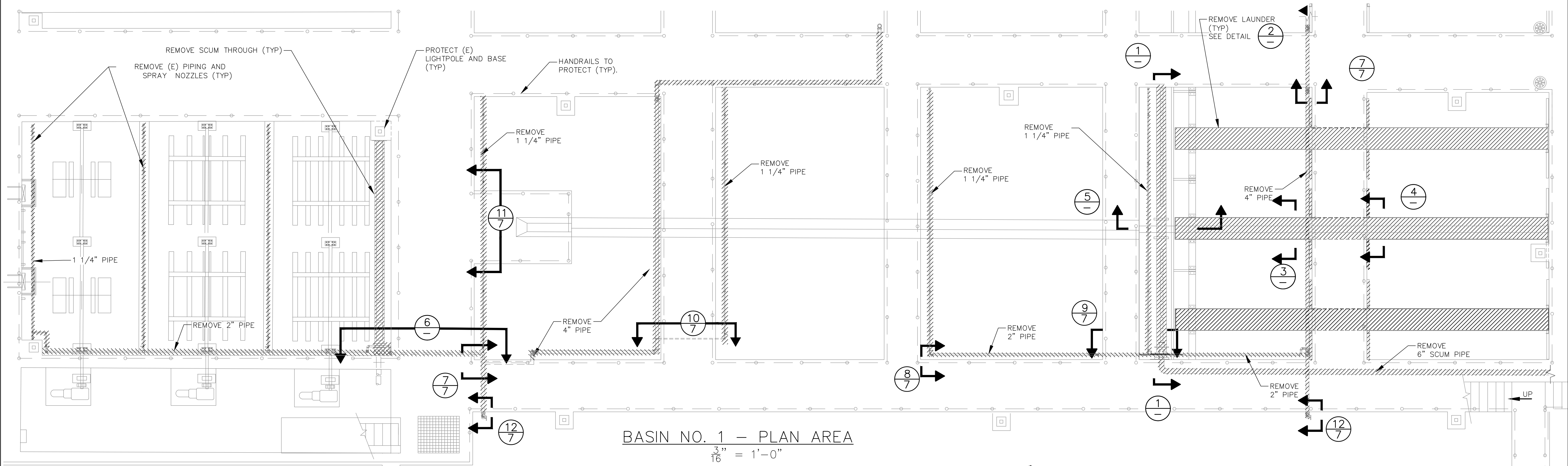
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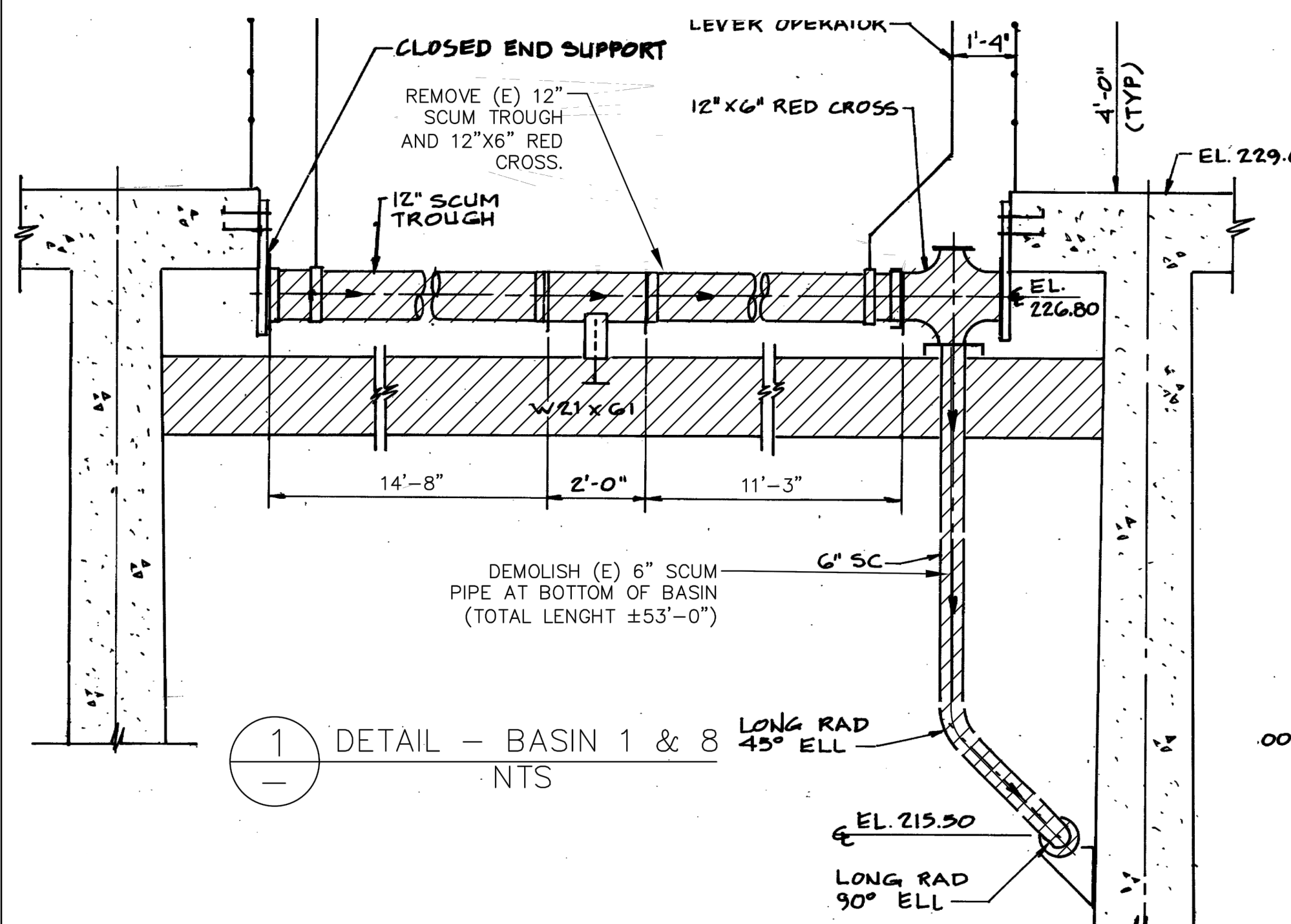
CROSS AND LONGITUDINAL COLLECTOR SECTION
NTS

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REVISION	
MARK	
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CITY OF VALLEJO WATER DEPARTMENT	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093	
DEMO PLAN - BASIN 1 & 8	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
CITY PROJECT # WT 7093	
DESIGN BY J JACKSON	
DRAWN BY R. ZAMBRANA	
CHECKED BY M. SOKOL R. WILSON	
DATE 02/12/18	
SCALE AS SHOWN	
SHEET 5	
OF 21 SHEETS DRAWING FILE # WT 7093	

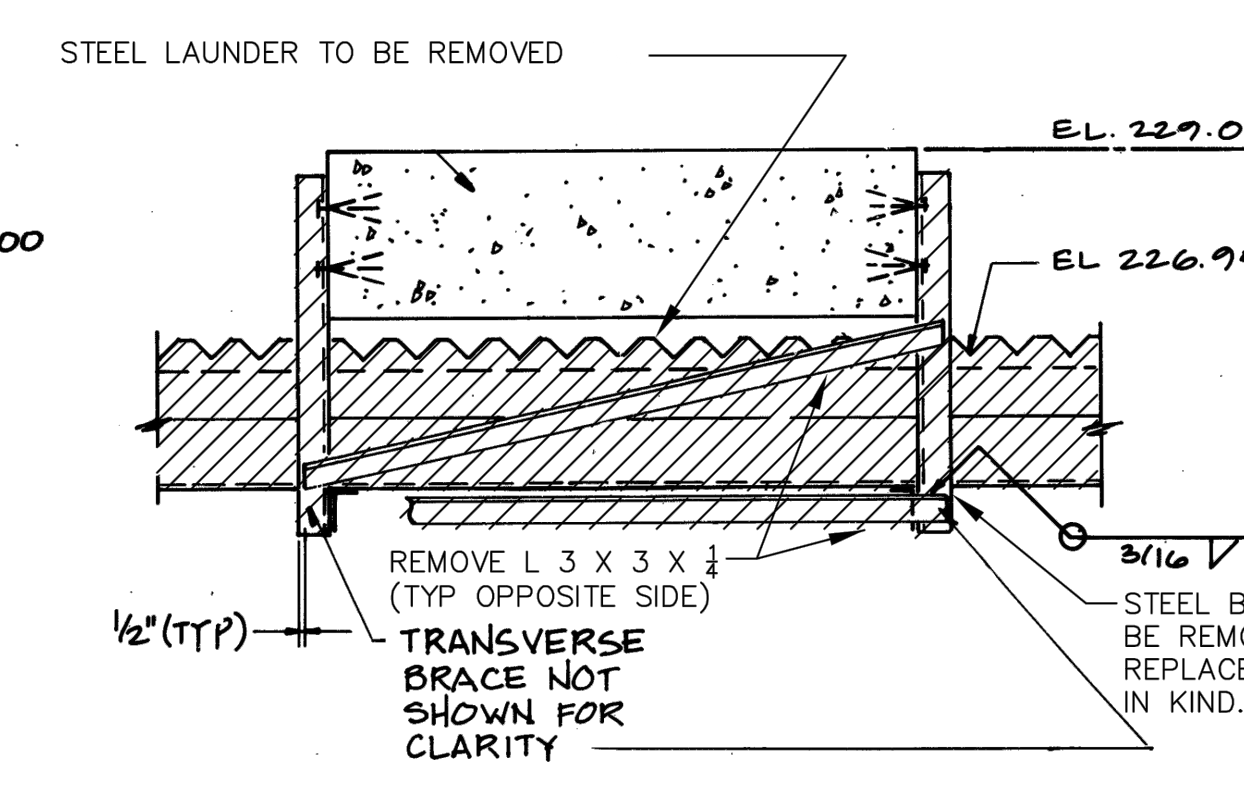
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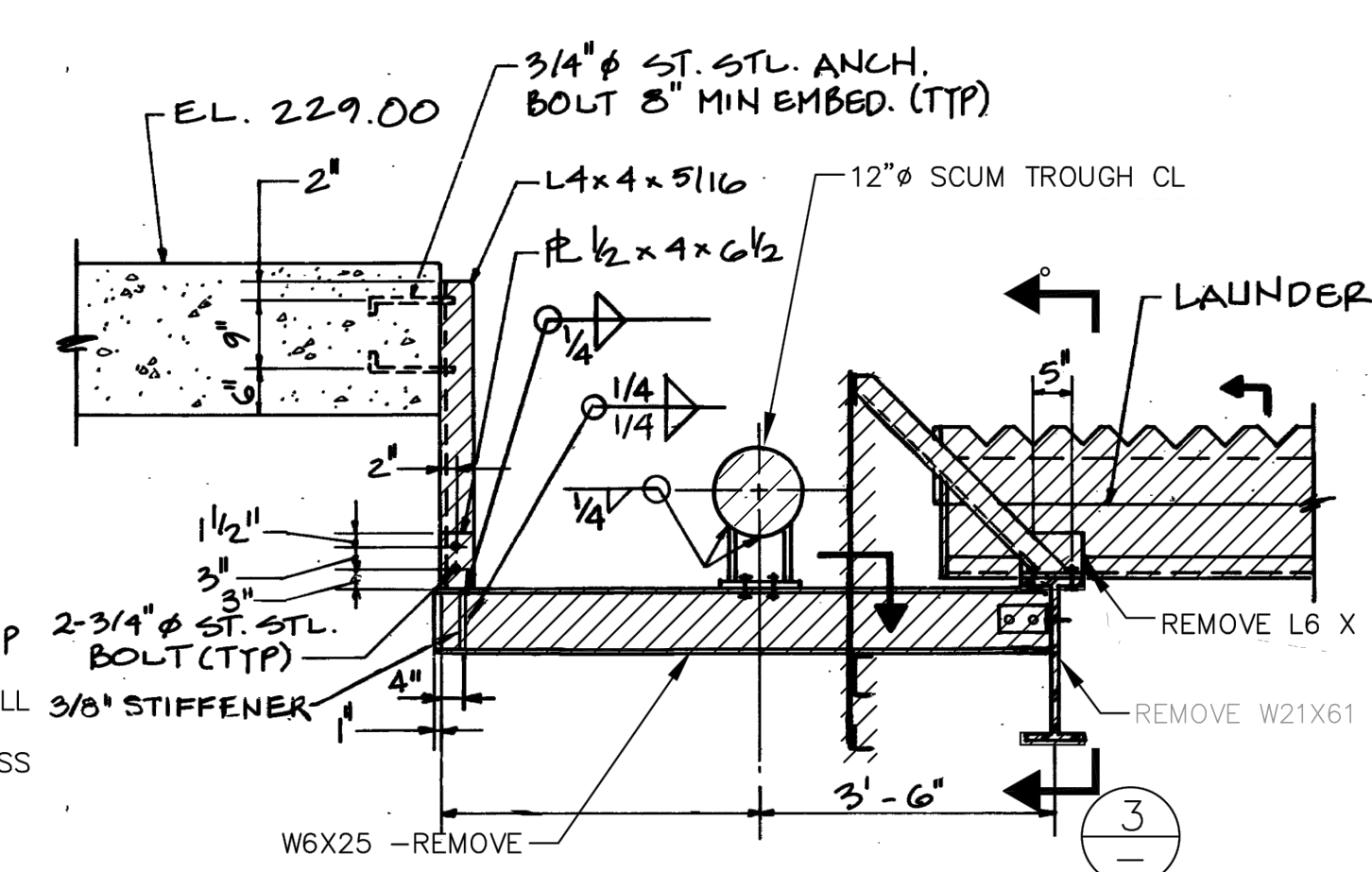
BASIN NO. 1 - PLAN AREA
 $\frac{3}{16}'' = 1'-0''$



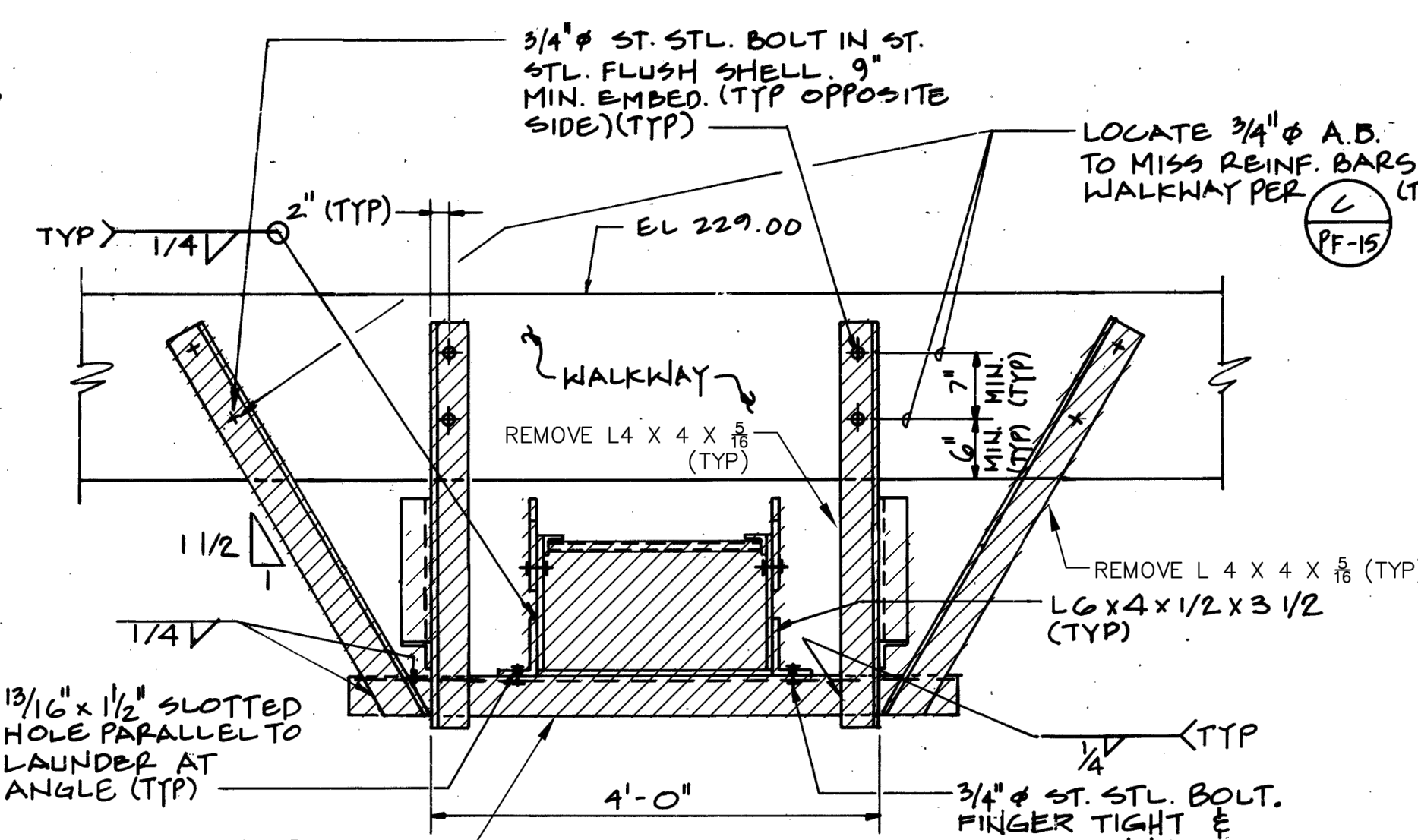
1 - DETAIL - BASIN 1 & 8
 NTS



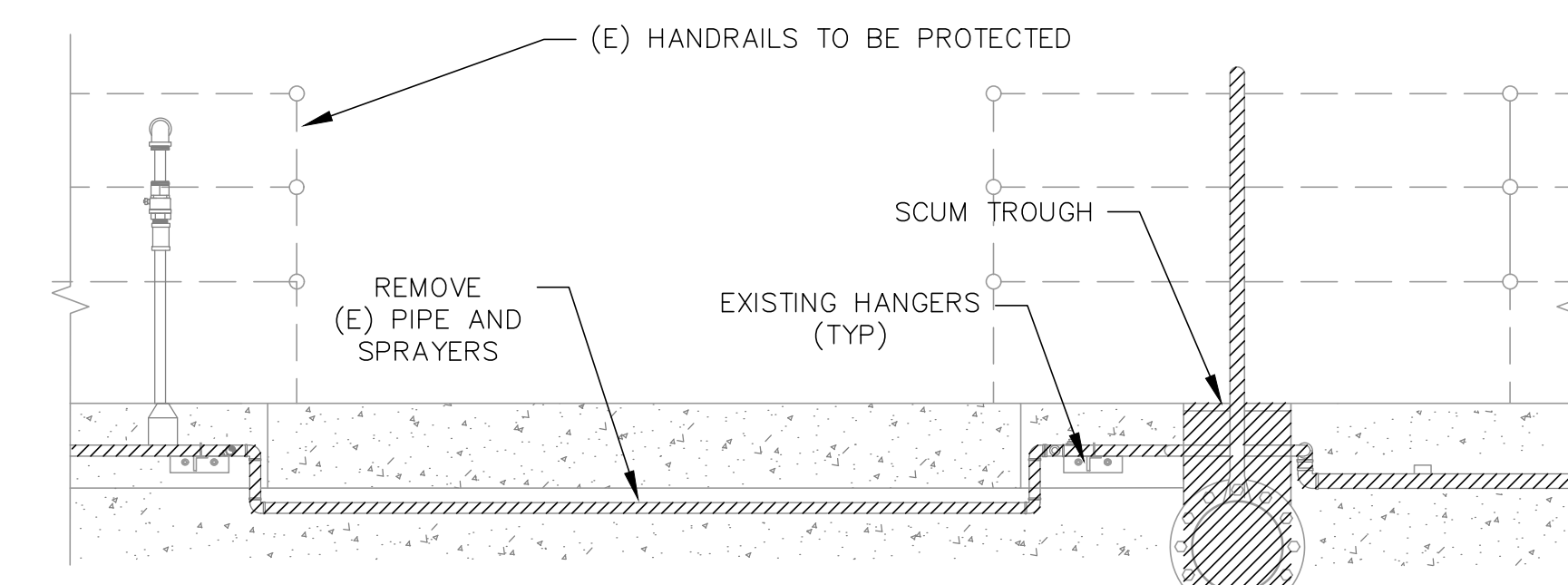
2 - DETAIL
 NTS



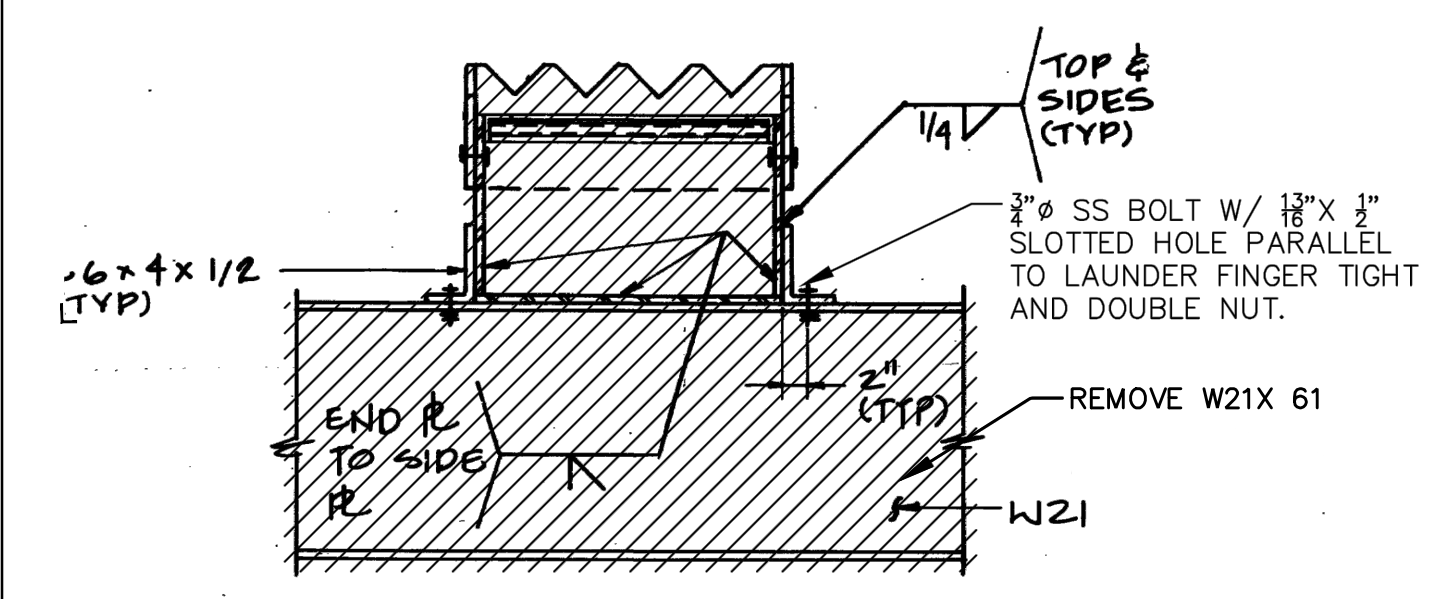
5 - DETAIL
 NTS



4 - DETAIL
 NTS



6 - DETAIL - 2\"/>
 NTS



3 - DETAIL
 NTS

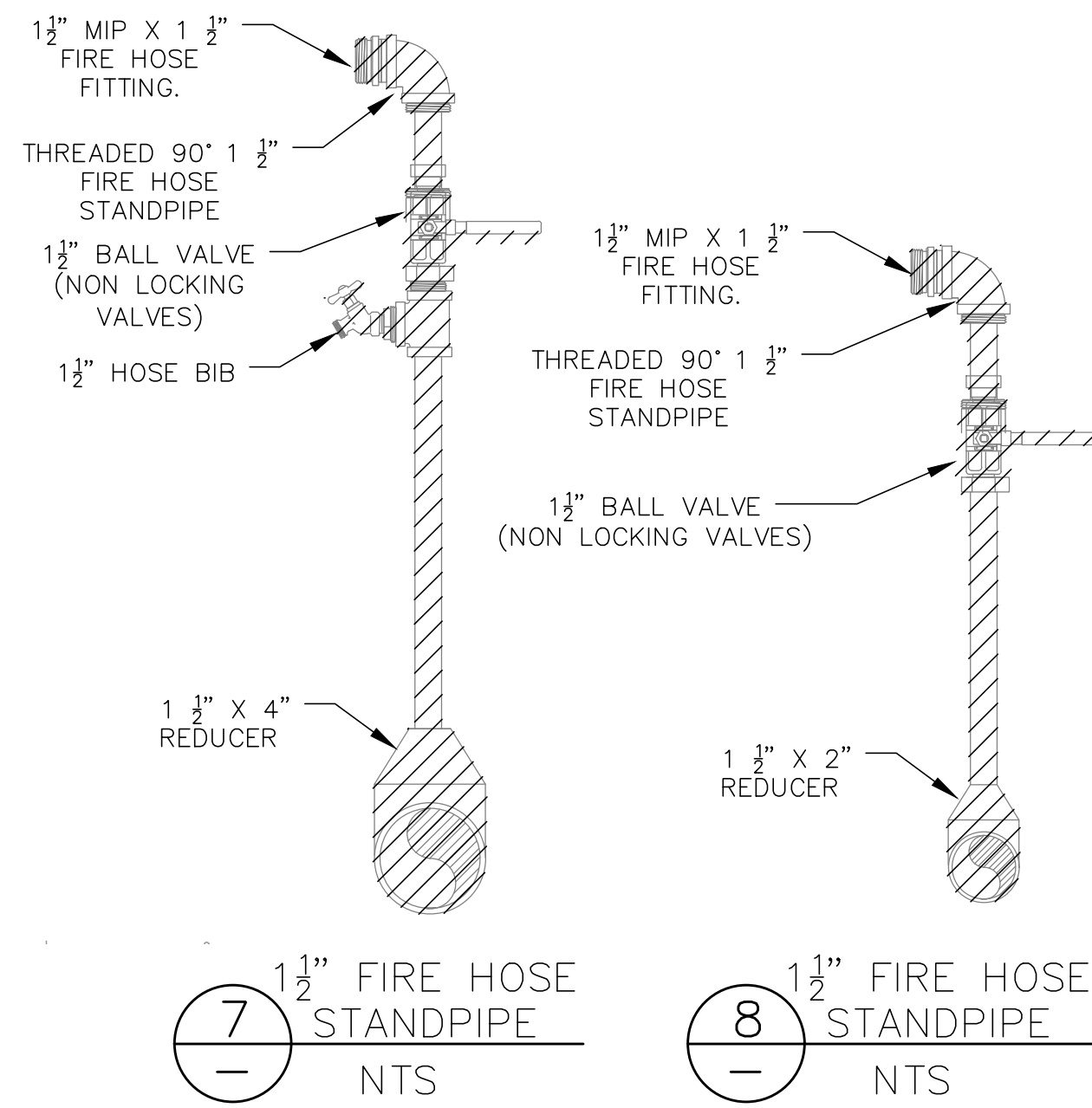
- BASIN NOTES**
1. LOCATIONS FOR BASIN 8 ARE MIRROR LOCATIONS OF BASIN 1.
- FLOCCULATOR DEMO NOTES:**
1. ALL MATERIAL AND EQUIPMENT REMOVED SHALL BE SALVAGED BY THE CONTRACTOR.
 2. ALL PIPE SUPPORTS TO REMAIN. REPLACE U-BOLTS (SS 316).
 3. ALL NON-POTABLE WATER PIPING TO SPRAYERS IN BASIN 1 ONLY TO BE REMOVED. SEE PAGE 5 NON-POTABLE WATER LOCATIONS (PLAN VIEW).
 4. CONCRETE PEDESTAL/BASES TO REMAIN ONLY AFTER FIRST TESTING CONCRETE WITH THE PLACEMENT OF THE ANCHORS. IF ANY SPALLING OR SOFTNESS, BASE/ PEDESTAL TO BE REMOVED COMPLETELY AND A NEW ONE INSTALLED IN ITS PLACE.
- CHAIN & FLIGHT DEMO NOTES:**
1. LONGITUDINAL STAINLESS STEEL RETURN RAILS ARE TO REMAIN.
 2. ALL LONGITUDINAL AND CROSS COLLECTOR EQUIPMENT TO BE DEMOLISHED.
 3. ALL MATERIALS AND EQUIPMENT REMOVED SHALL BE SALVAGED AND DISPOSED BY THE CONTRACTOR.

LEGEND:

REMOVE AND REPLACE

INIT.	
REVISION	
MARK	
DATE	
CITY OF VALLEJO	
WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093	
DEMO PLAN - BASIN 1 & 8	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	6
OF 21 SHEETS	
DRAWING FILE #	WT 7093

9/14/2018 1:01 PM V:\WATER\7093 - FH/TP SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FH/TP-BASINS 1 AND 8 REVISED.DWG



FLOCCULATOR DEMO NOTES:

BASIN NOTES

1. LOCATIONS FOR BASIN 8 ARE MIRROR LOCATIONS OF BASIN 1.

FLOCCULATOR DEMO NOTES:

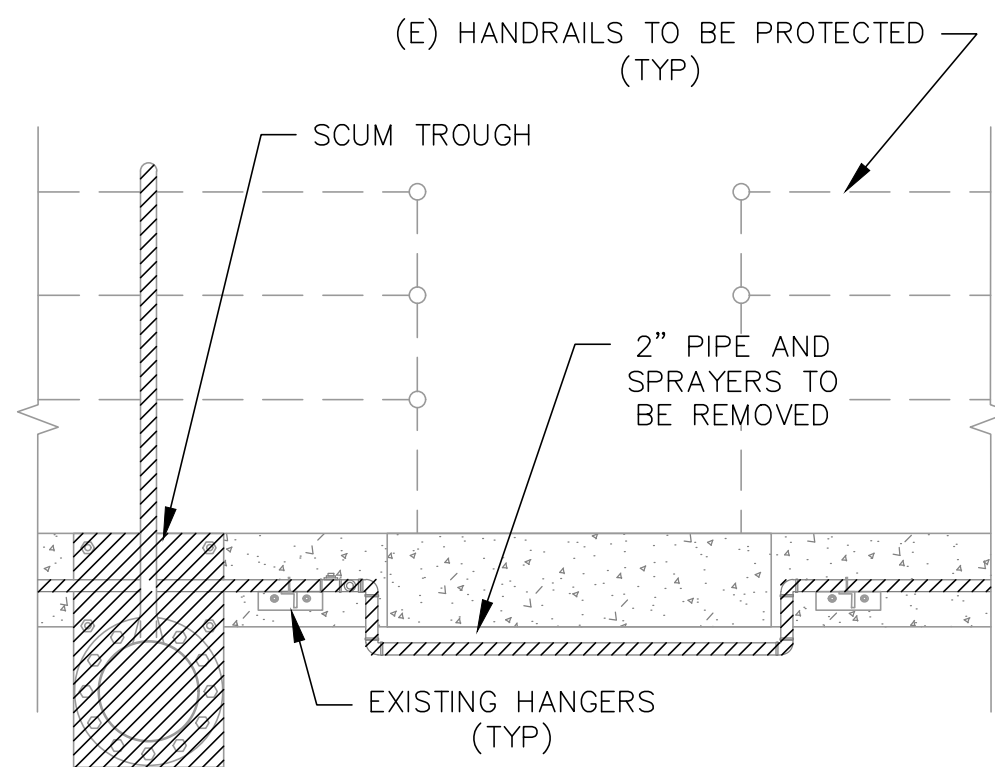
1. ALL MATERIAL AND EQUIPMENT REMOVED SHALL BE SALVAGED BY THE CONTRACTOR.
2. ALL PIPE SUPPORTS AND U BOLTS TO REMAIN.
3. ALL NON-POTABLE WATER PIPING TO SPRAYERS IN BASIN 1 ONLY TO BE REMOVED. SEE PAGE 5 NON-POTABLE WATER LOCATIONS (PLAN VIEW).
4. CONCRETE PEDESTAL/BASES TO REMAIN ONLY AFTER FIRST TESTING CONCRETE WITH THE PLACEMENT OF THE ANCHORS. IF ANY SPALLING OR SOFTNESS, BASE/ PEDESTAL TO BE REMOVED COMPLETELY AND A NEW ONE INSTALLED IN ITS PLACE.

CHAIN & FLIGHT DEMO NOTES:

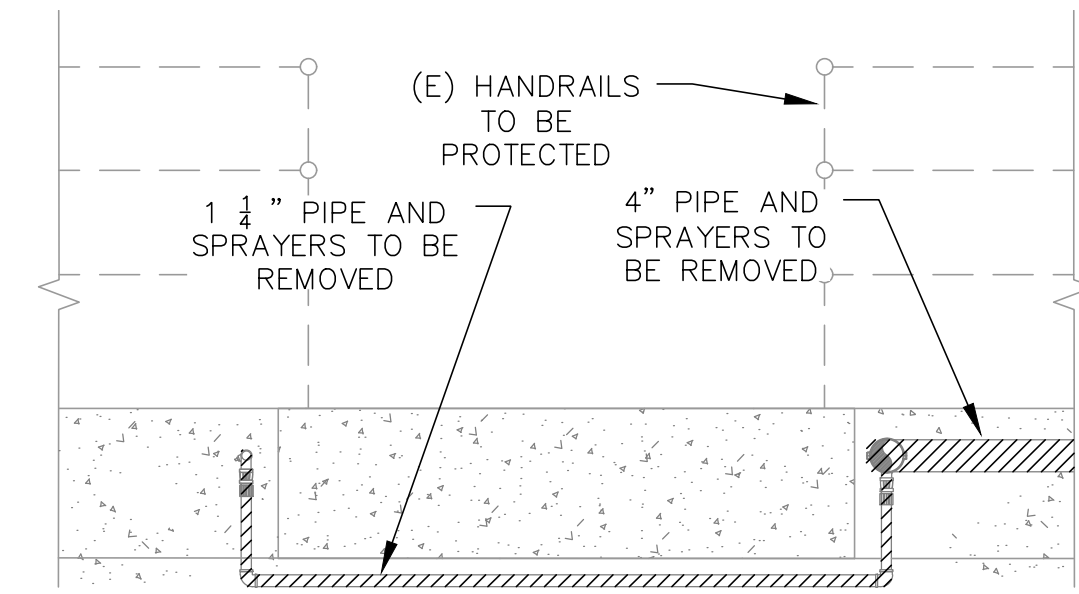
1. LONGITUDINAL STAINLESS STEEL RETURN RAILS ARE TO REMAIN.
2. ALL LONGITUDINAL AND CROSS COLLECTOR EQUIPMENT TO BE DEMOLISHED.
3. ALL MATERIALS AND EQUIPMENT REMOVED SHALL BE SALVAGED AND DISPOSED BY THE CONTRACTOR.

LEGEND:

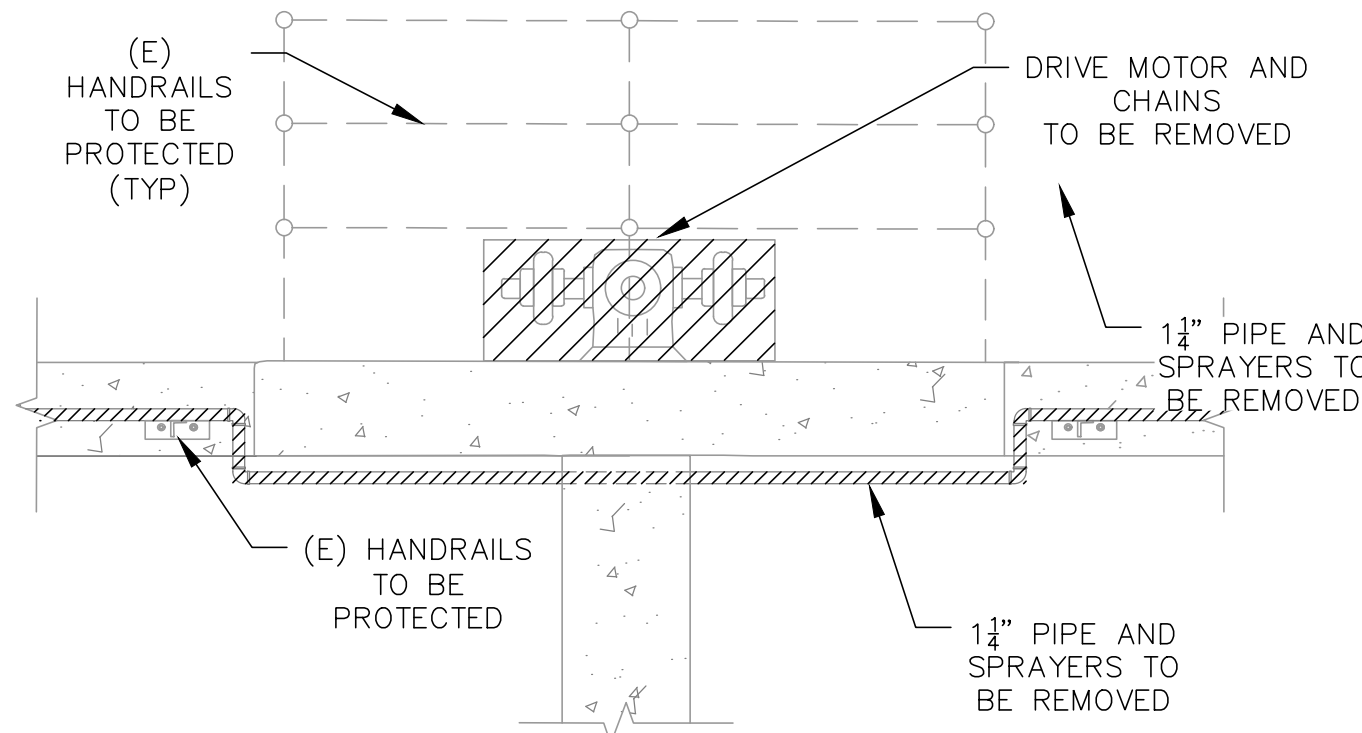
REMOVE AND REPLACE



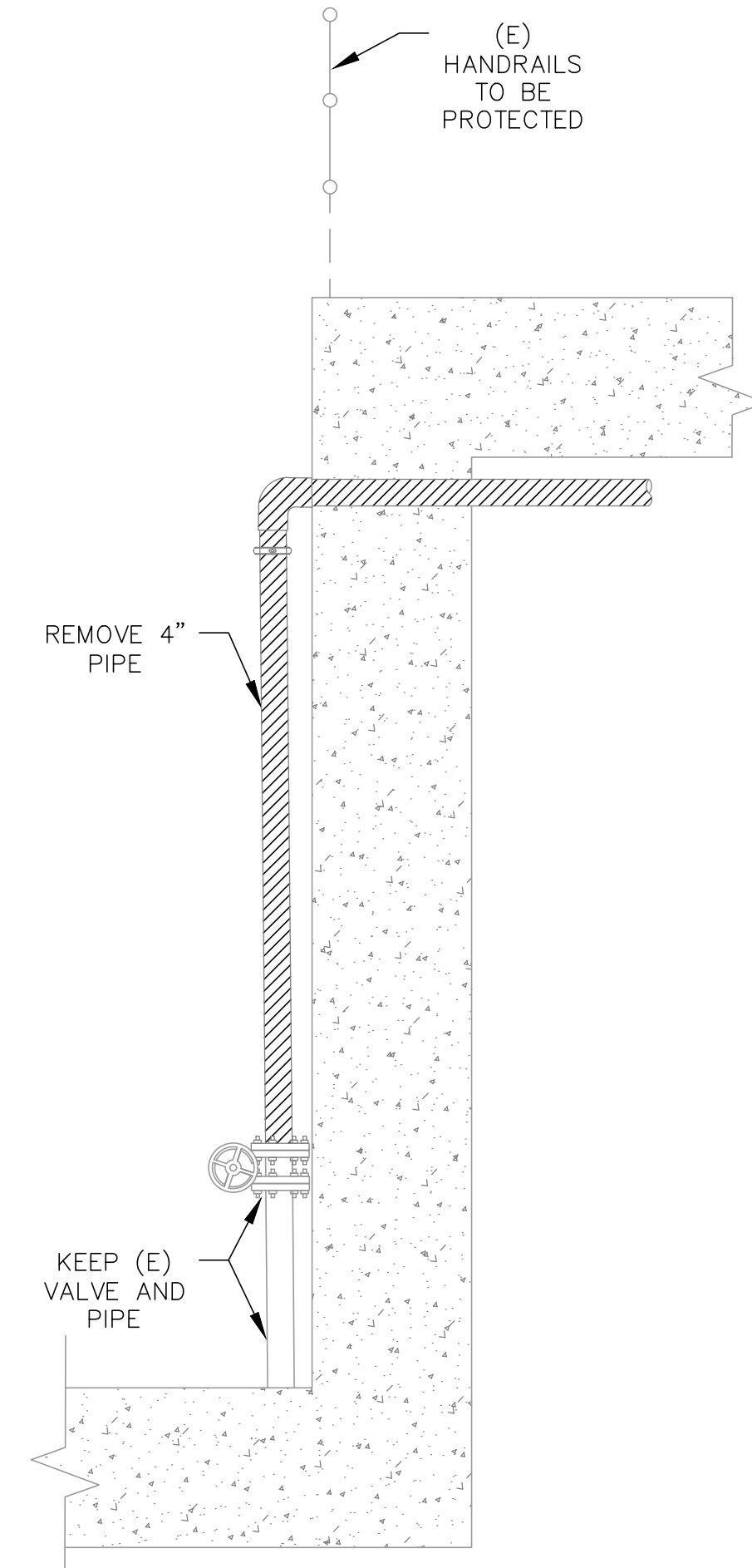
9 — **DETAIL - 2" PIPE UNDER WALKWAY**
NTS



10 — **DETAIL - 1 1/4" PIPE UNDER WALKWAY**
NTS



11 — **DETAIL - 1 1/4" PIPE UNDER WALKWAY**
NTS



12 — **DETAIL - 4" PIPE**
NTS

INIT.	REVISION	MARK	DATE



CITY OF VALLEJO

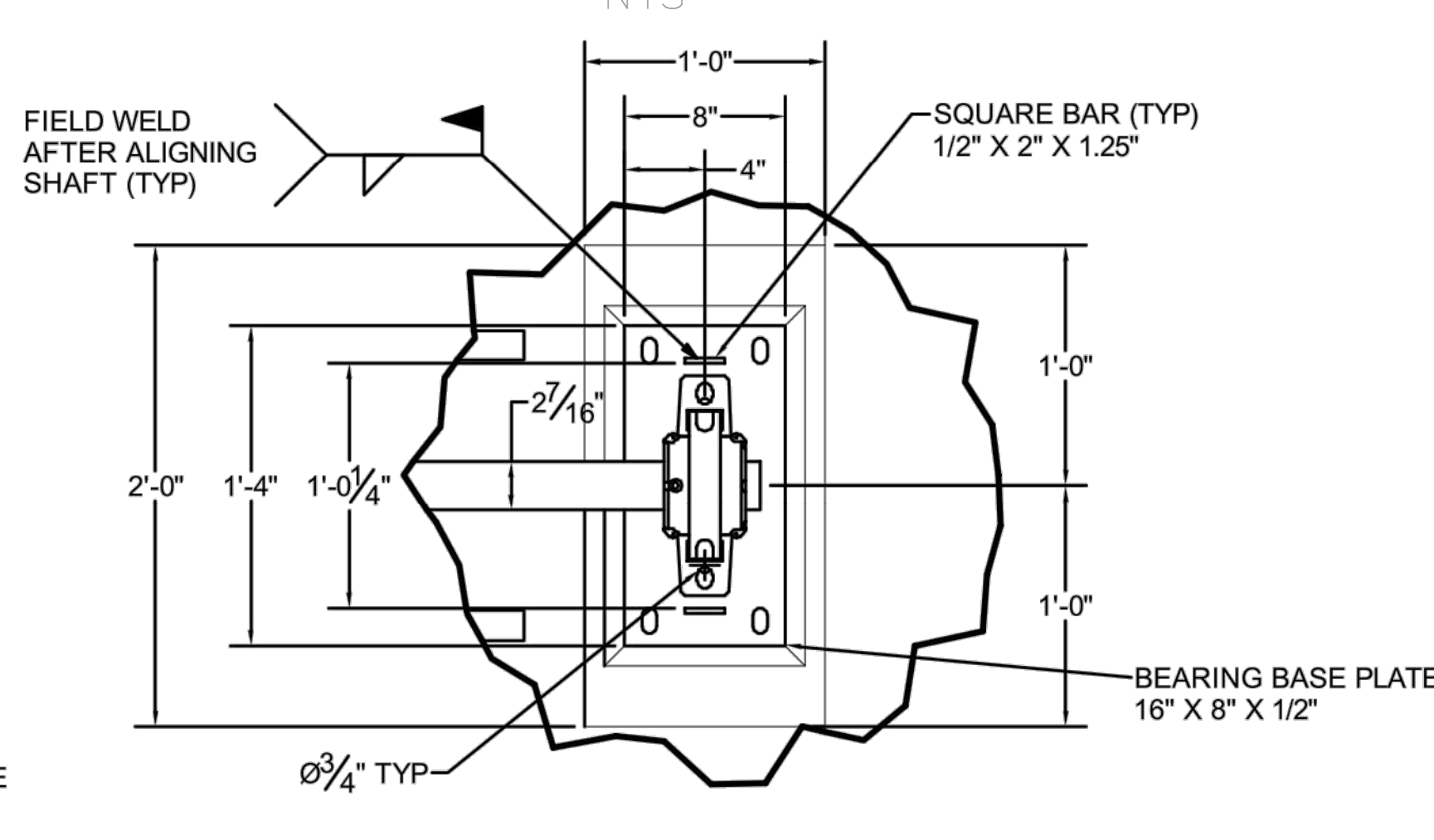
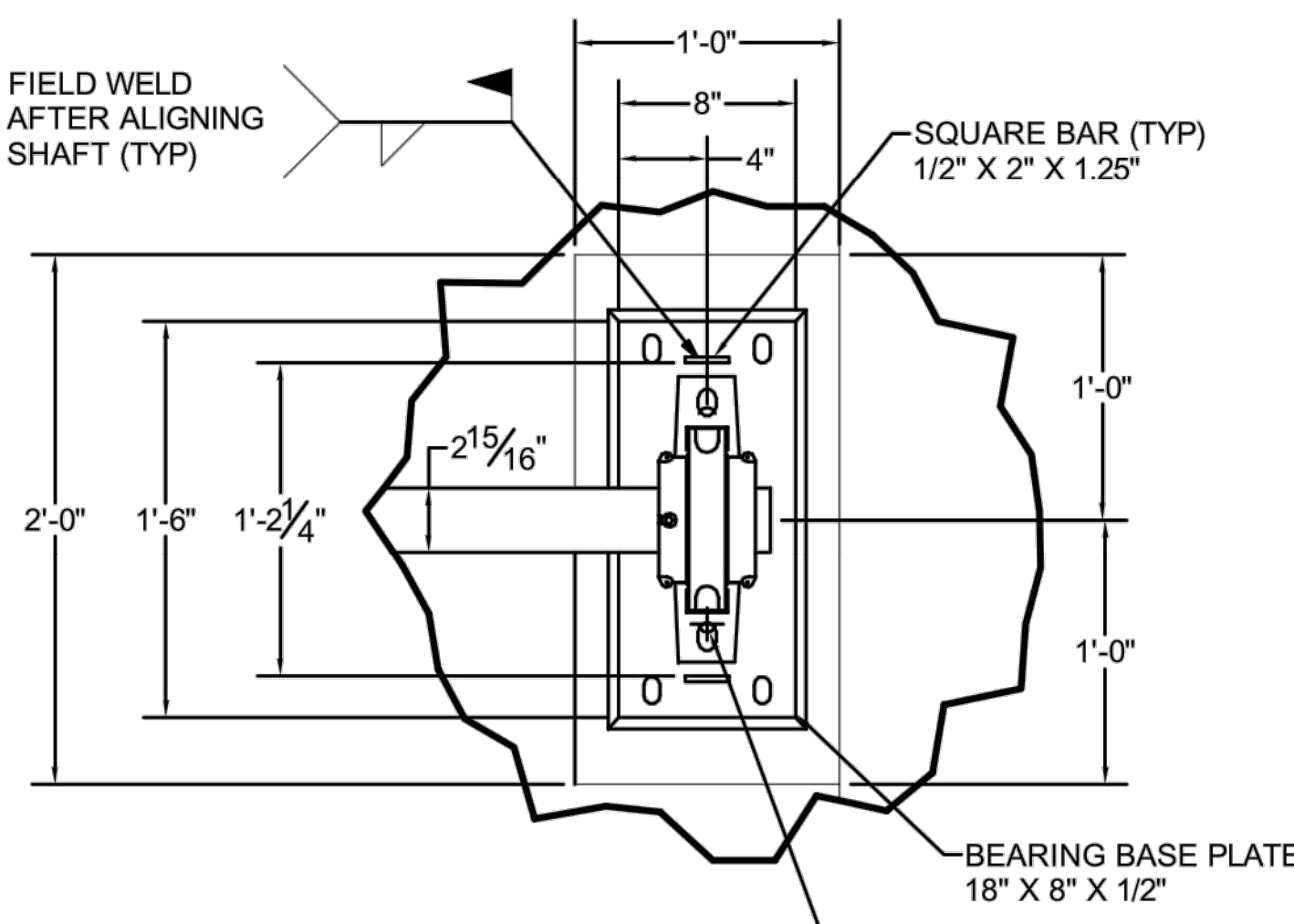
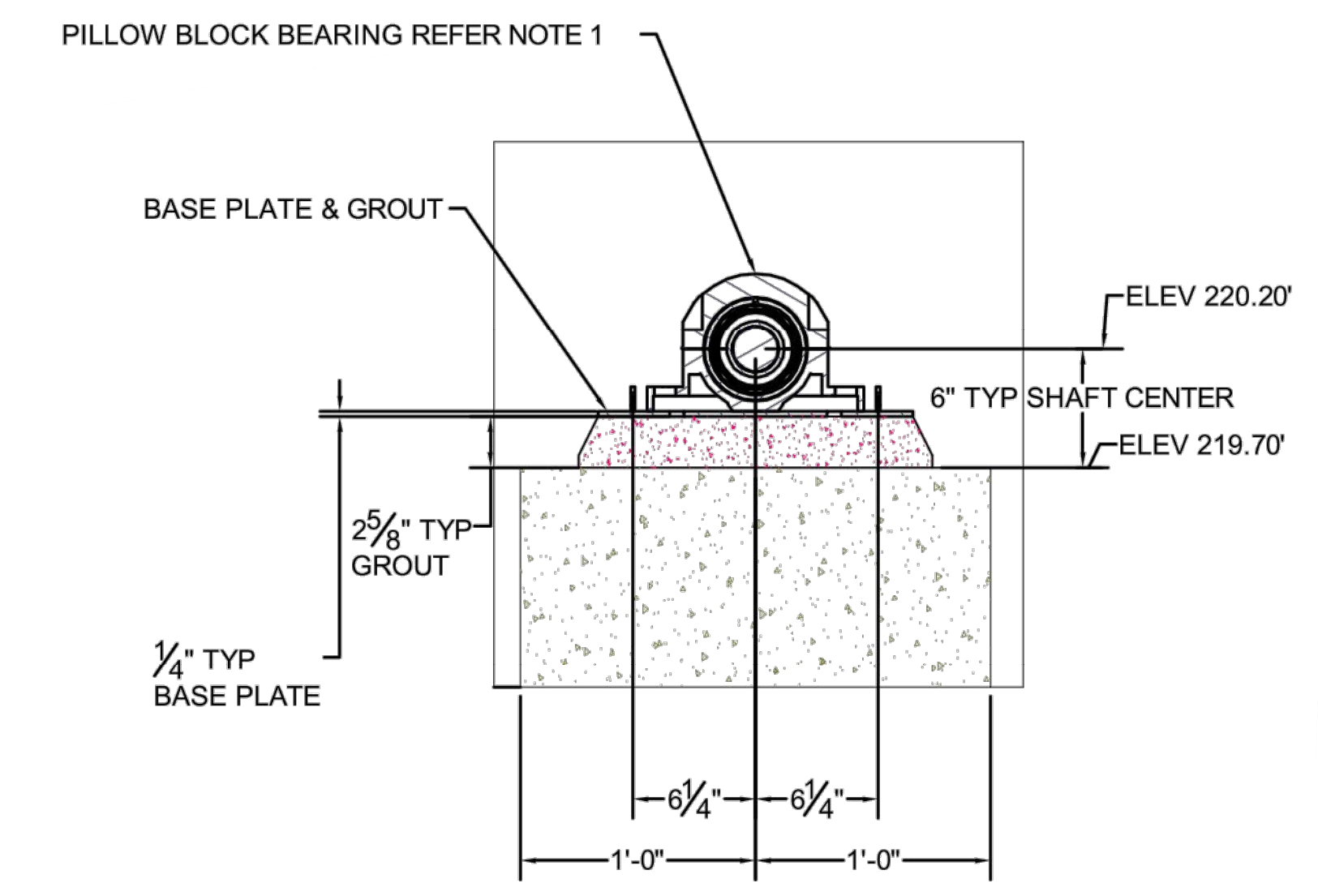
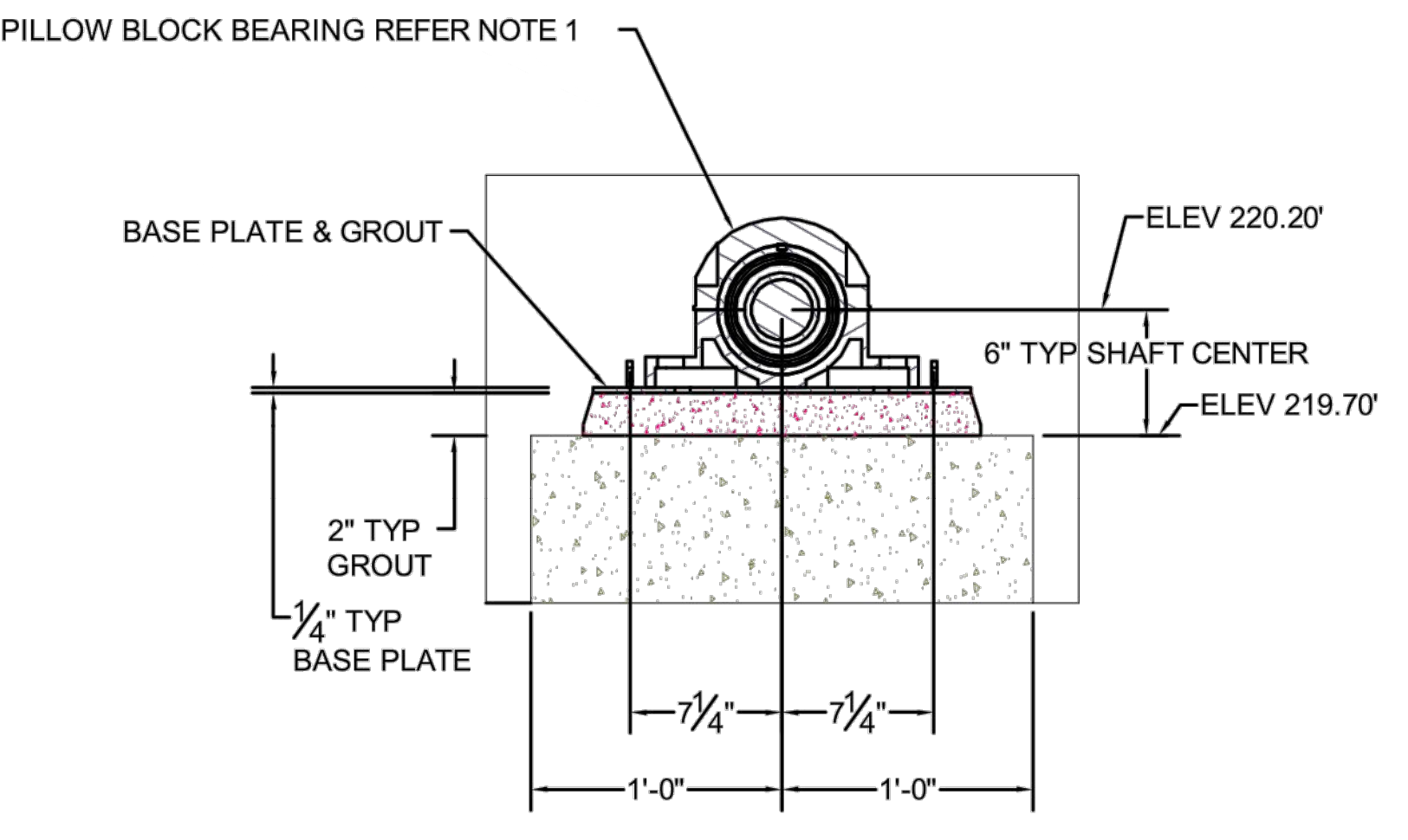
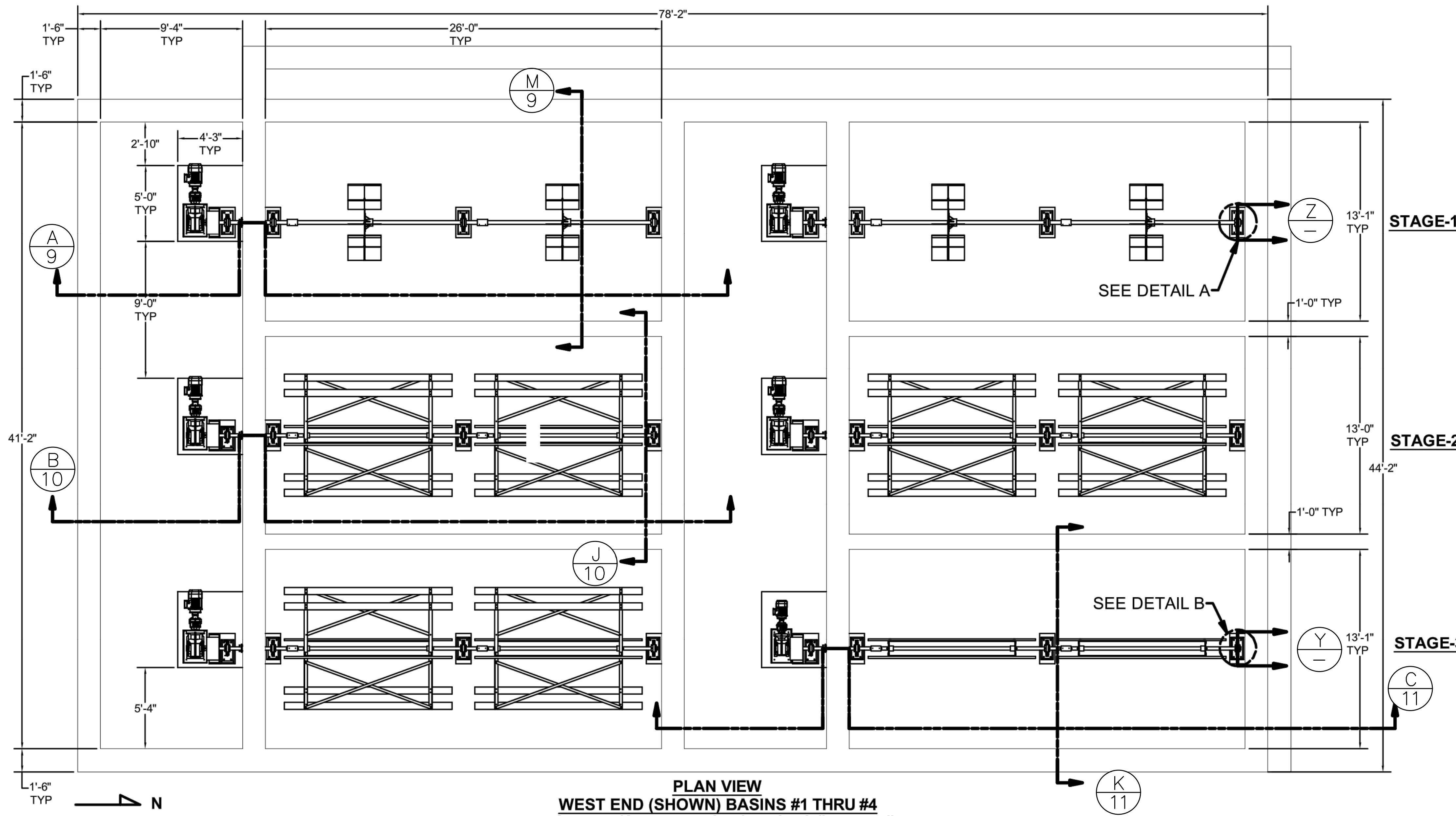
WATER DEPARTMENT

APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER

FLEMING HILL WATER TREATMENT PLANT
FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093

DEMO PLAN - BASIN 1 & 8
FLOCCULATION AND CHAIN & FLIGHT EQUIPMENT

CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	7
OF 21 SHEETS	
DRAWING FILE #	WT 7093

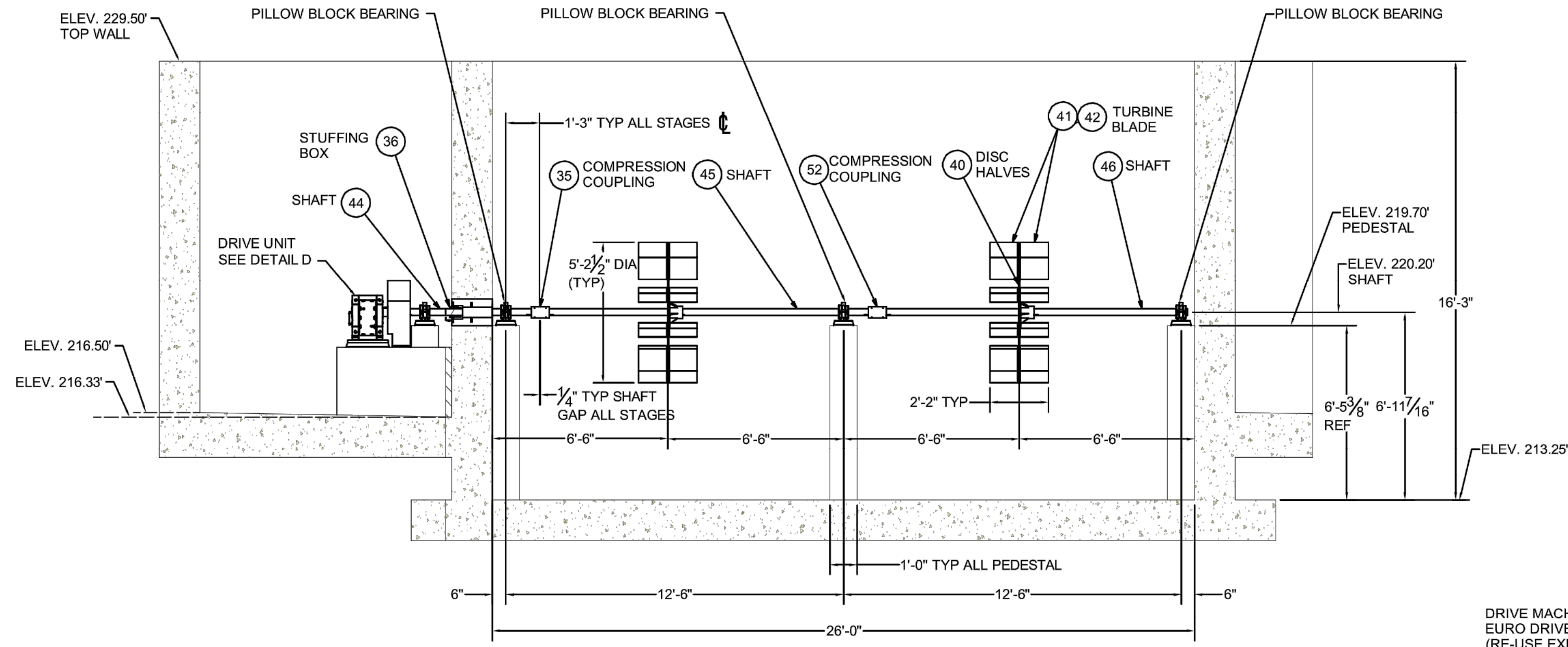


NOTES
 1. SEE SHEET 4 FOR PART'S LIST.

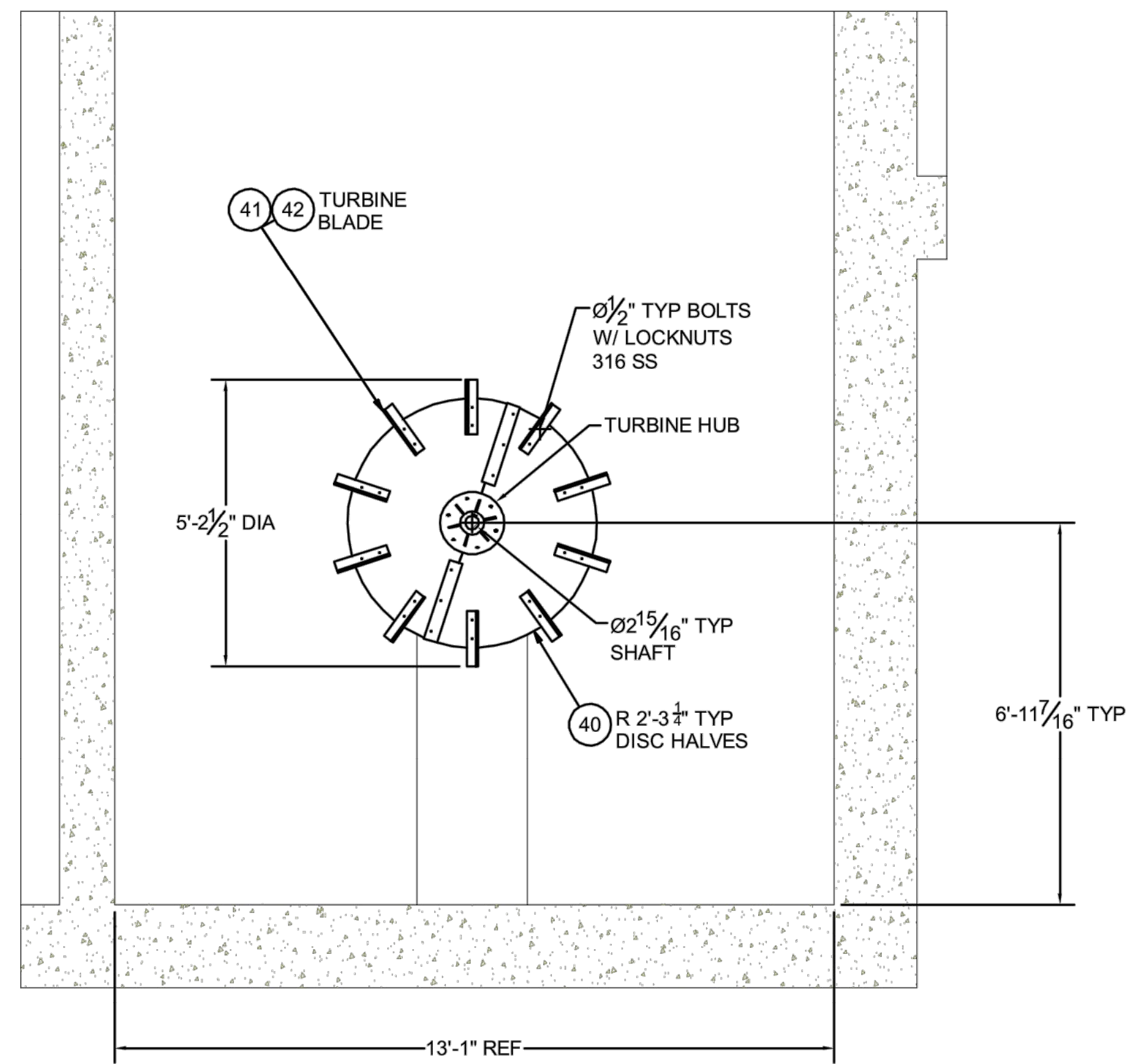
9/17/2018 3:20 PM V:\WATER\7093 - FHWP\SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FHWP-BASINS 1 AND 8 REVISED.DWG

INIT.	
REVISION	
MARK	
DATE	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093	
FLOCCULATION BASINS 1 & 8 PLAN VIEW & ROLLER BEARING VIEWS	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	8
OF 21 SHEETS	
DRAWING FILE #	WT 7093

9/17/2018 3:20 PM V:\WATER\7093 - FH/TP SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FH/TP-BASINS 1 AND 8 REVISED.DWG

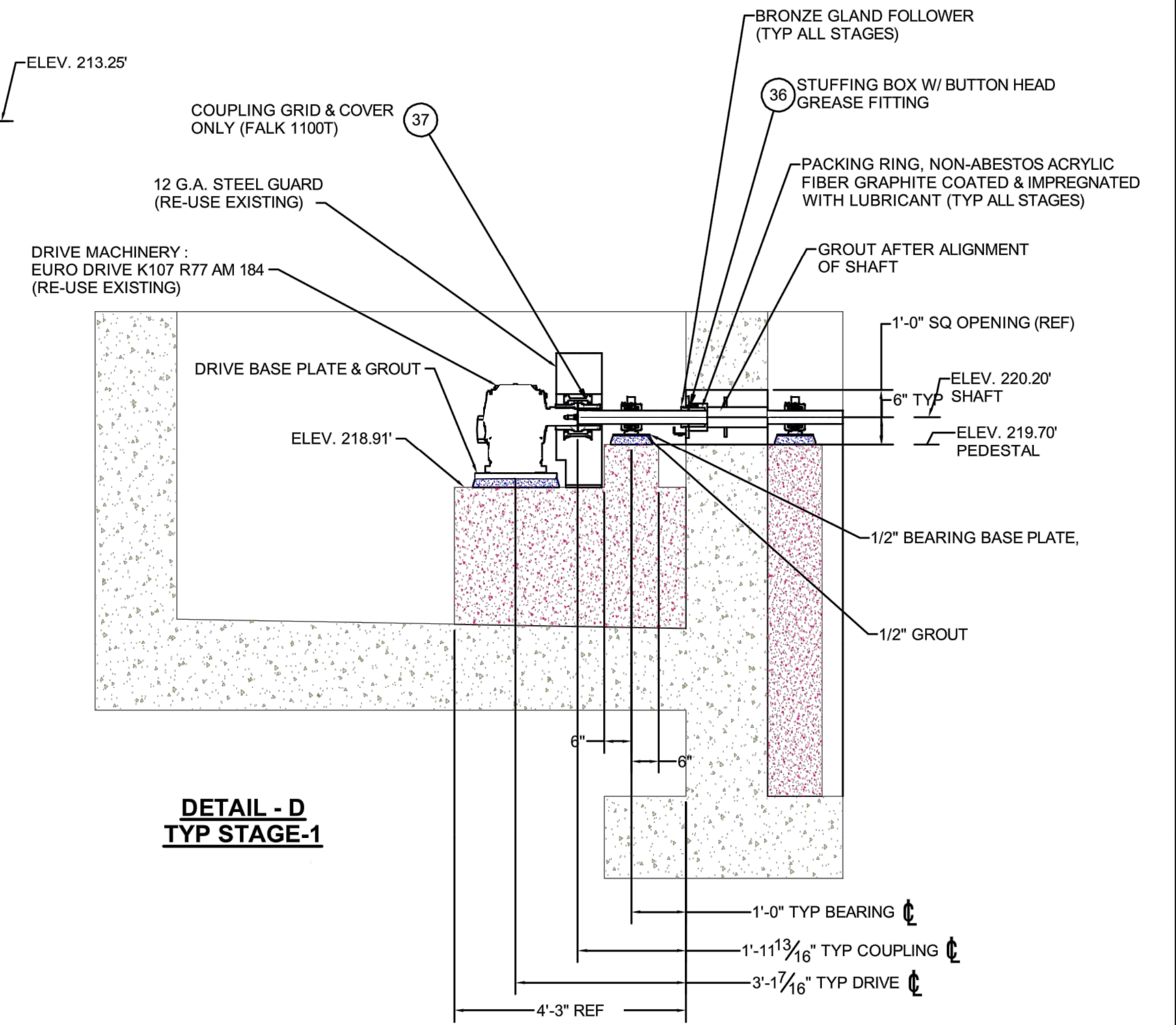
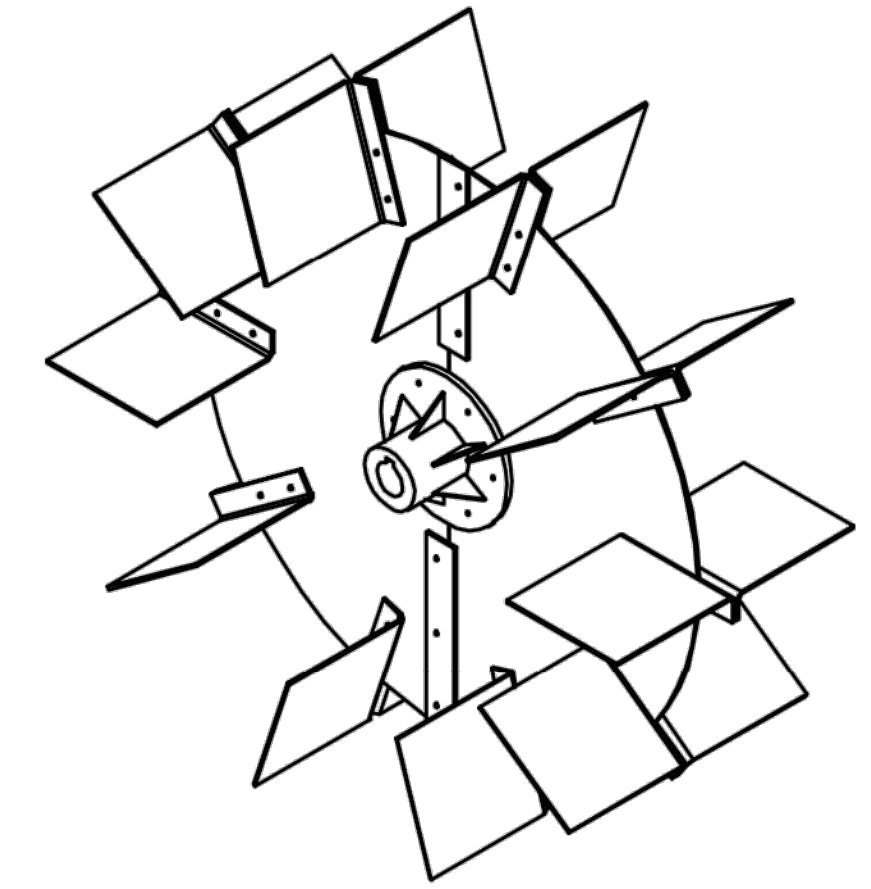


A
8 **TYP STAGE-1**




M
8 **TYP STAGE-1**

TURBINE MECHANISM 3D VIEW
TYP STAGE-1

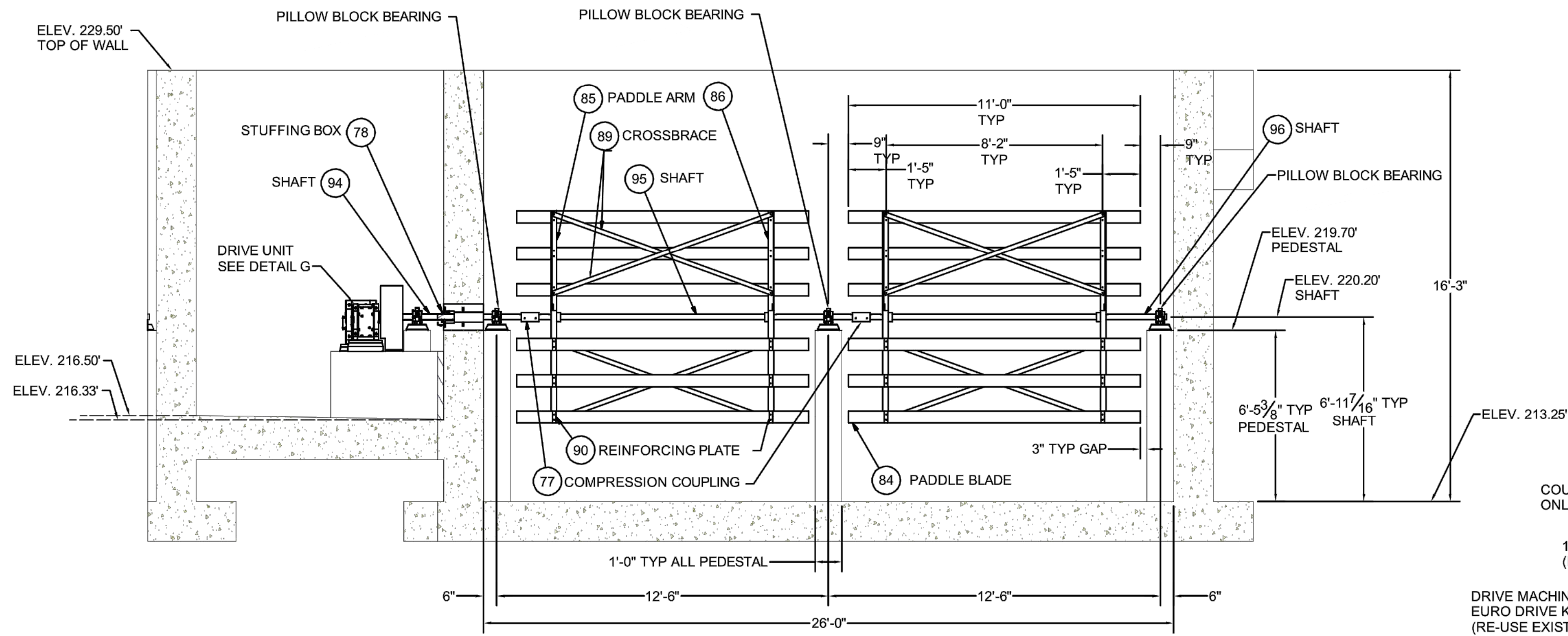


DETAIL - D
TYP STAGE-1

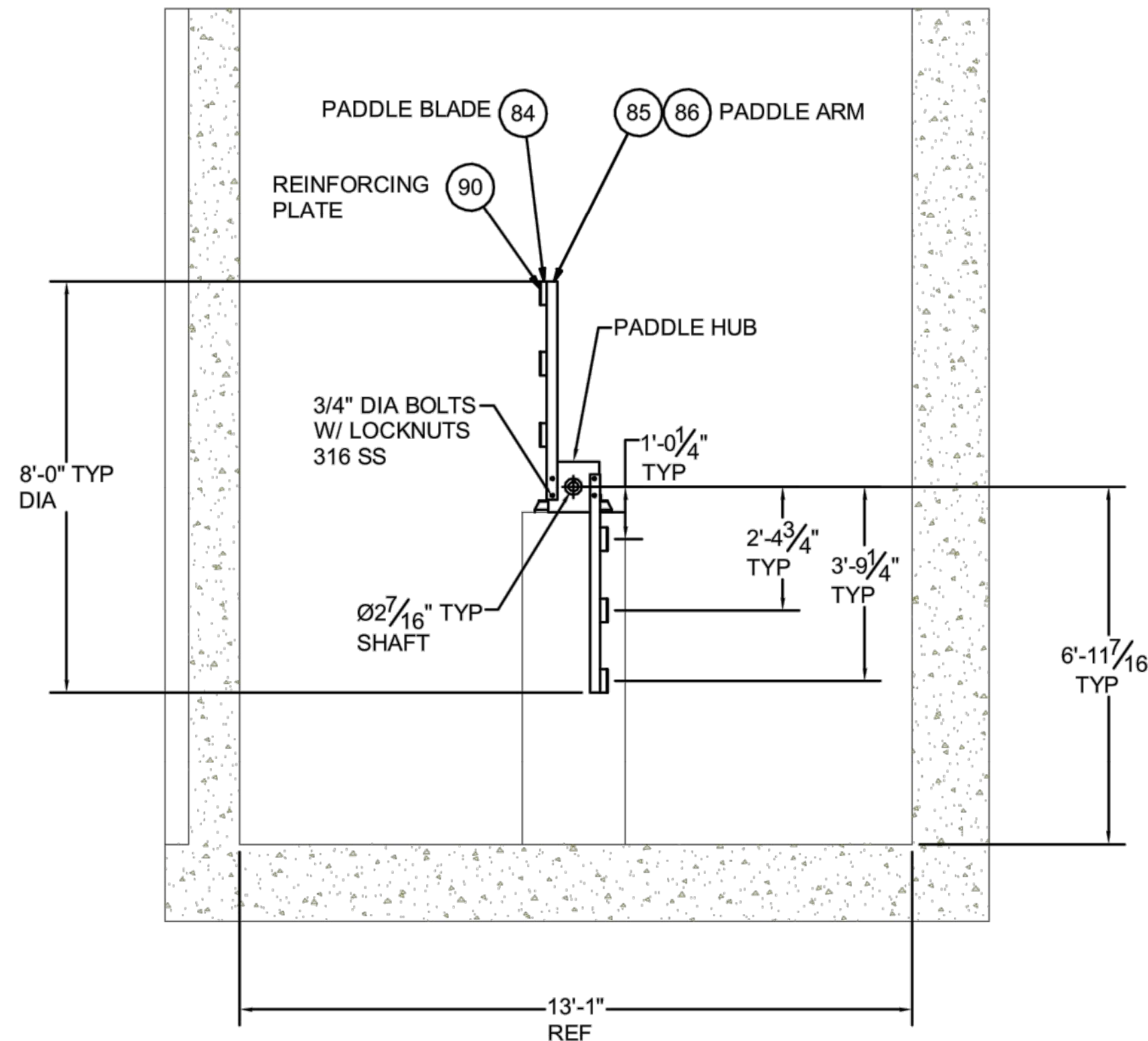
NOTES
1. SEE SHEET 4 FOR PART'S LIST.

INIT.	
REVISION	
MARK	
DATE	
	
CITY OF VALLEJO WATER DEPARTMENT APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 FLOCCULATION BASINS 1 & 8 STAGE 1 SECTION & DETAILS VIEWS	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	9
OF 21 SHEETS	
DRAWING FILE #	WT 7093

9/17/2018 3:20 PM V:\WATER\7093 - FH\WTP SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FH\WTP-BASINS 1 AND 8 REVISED.DWG

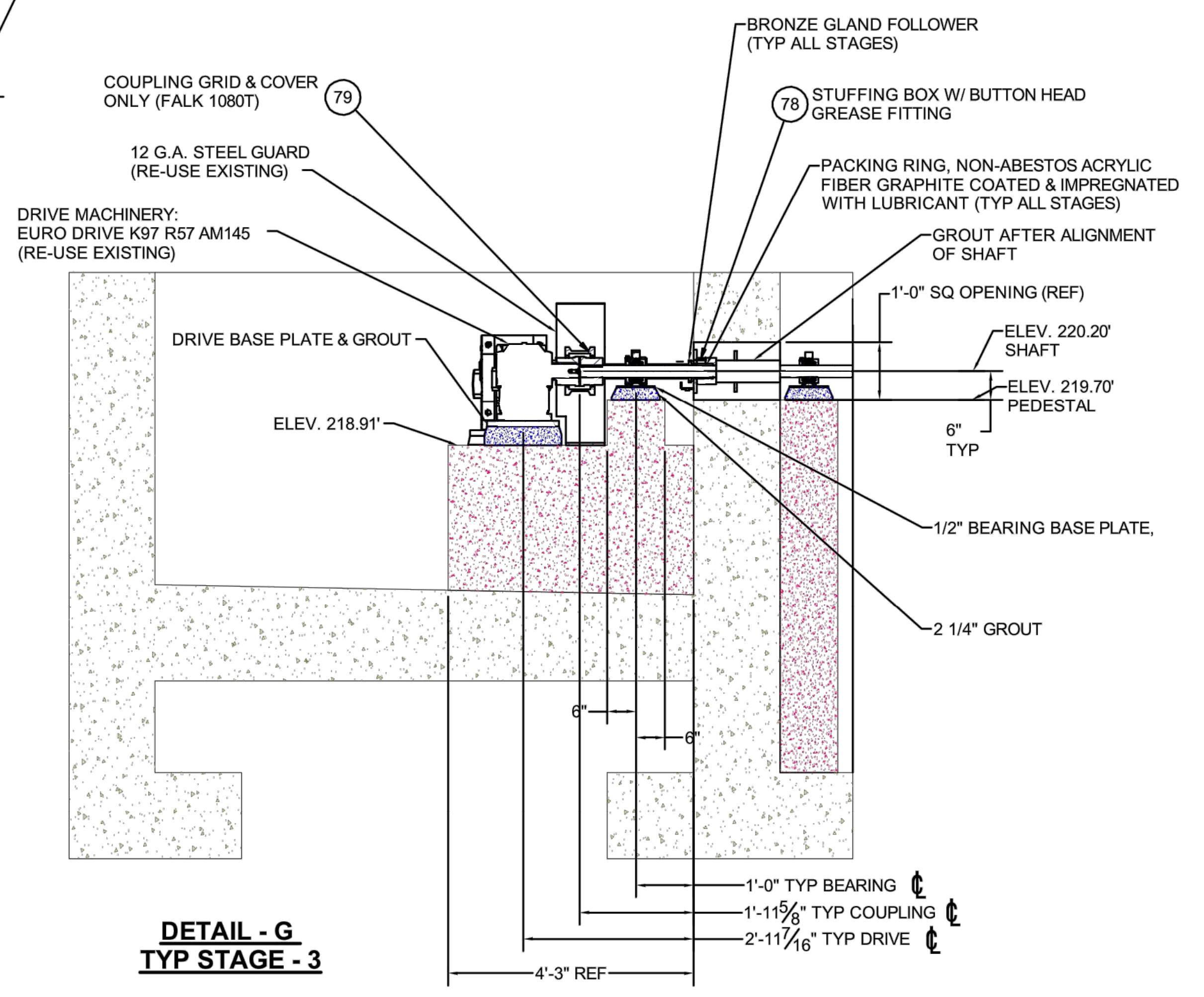
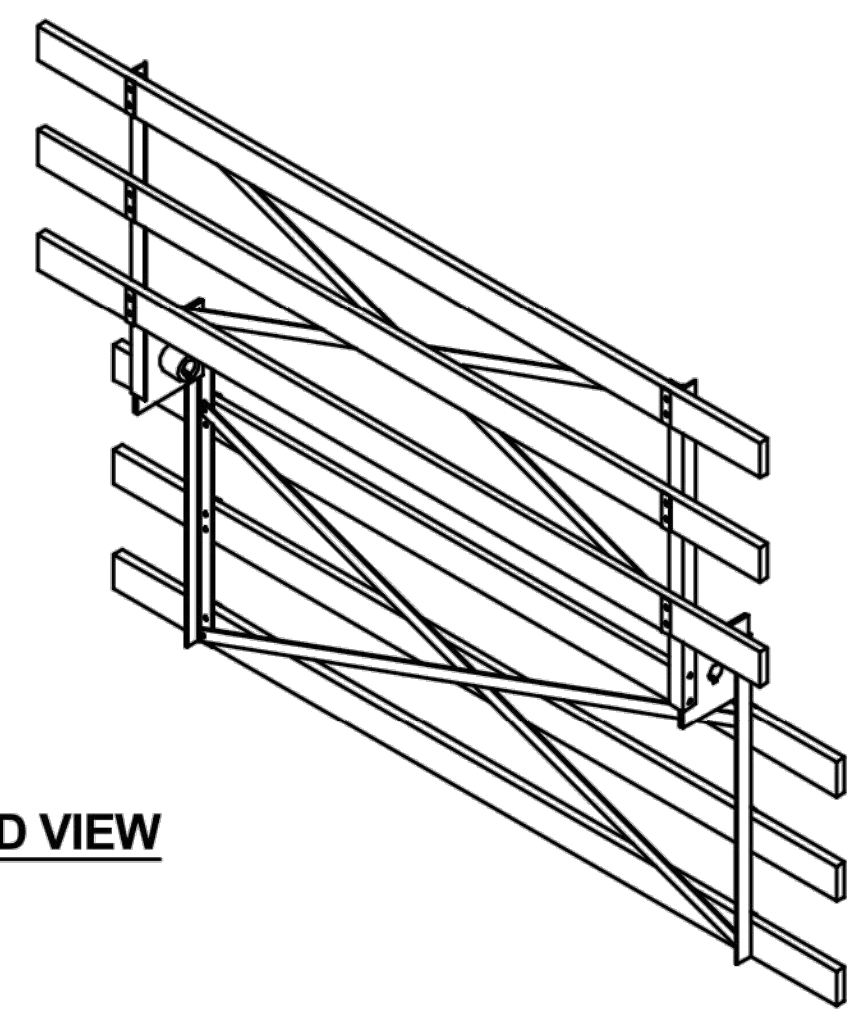


C
8 **TYP STAGE - 3**





K
8 **TYP STAGE - 3**

PADDLE MECHANISM 3D VIEW
TYP STAGE - 3

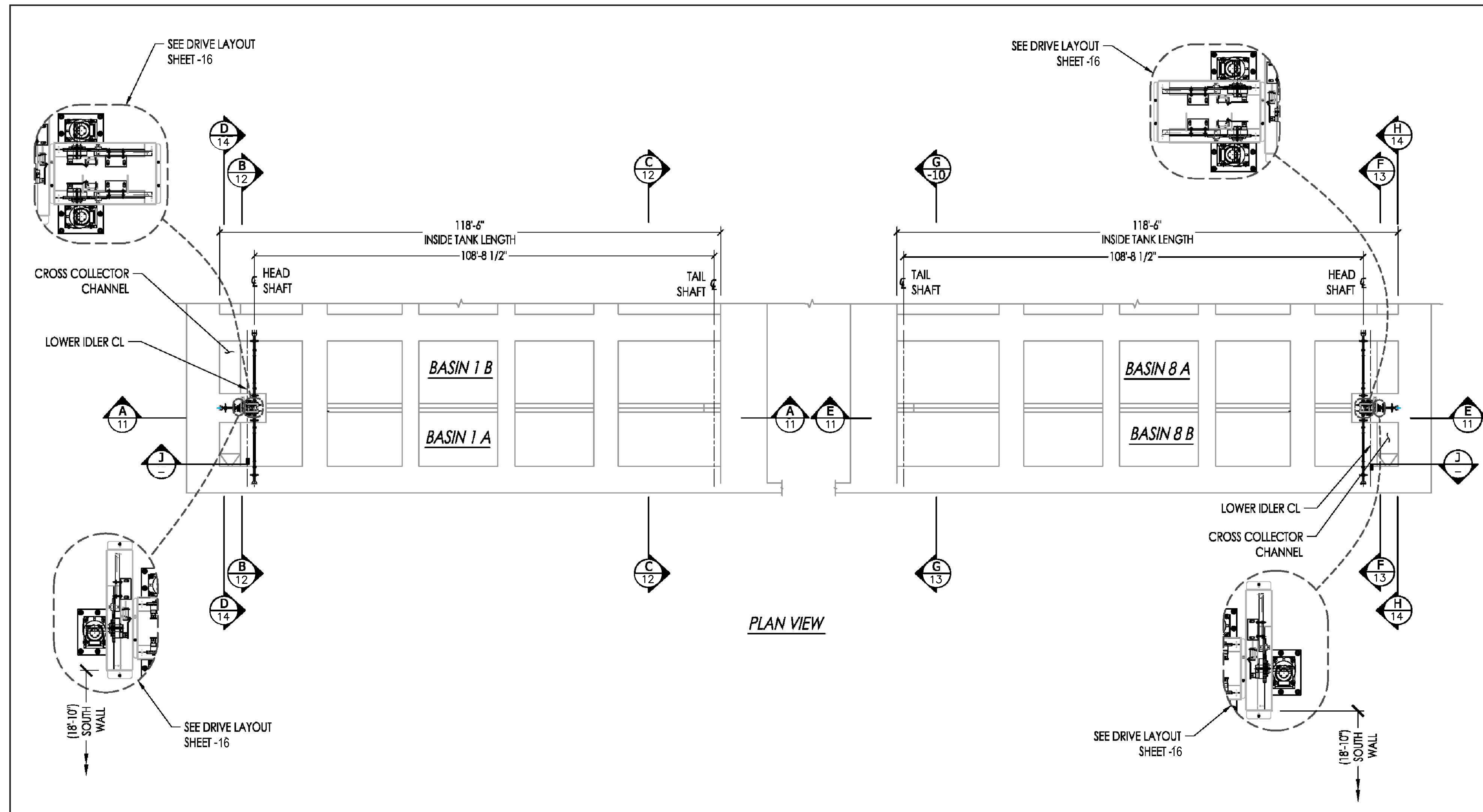


DETAIL - G
TYP STAGE - 3

NOTES
1. SEE SHEET 4 FOR PART'S LIST.

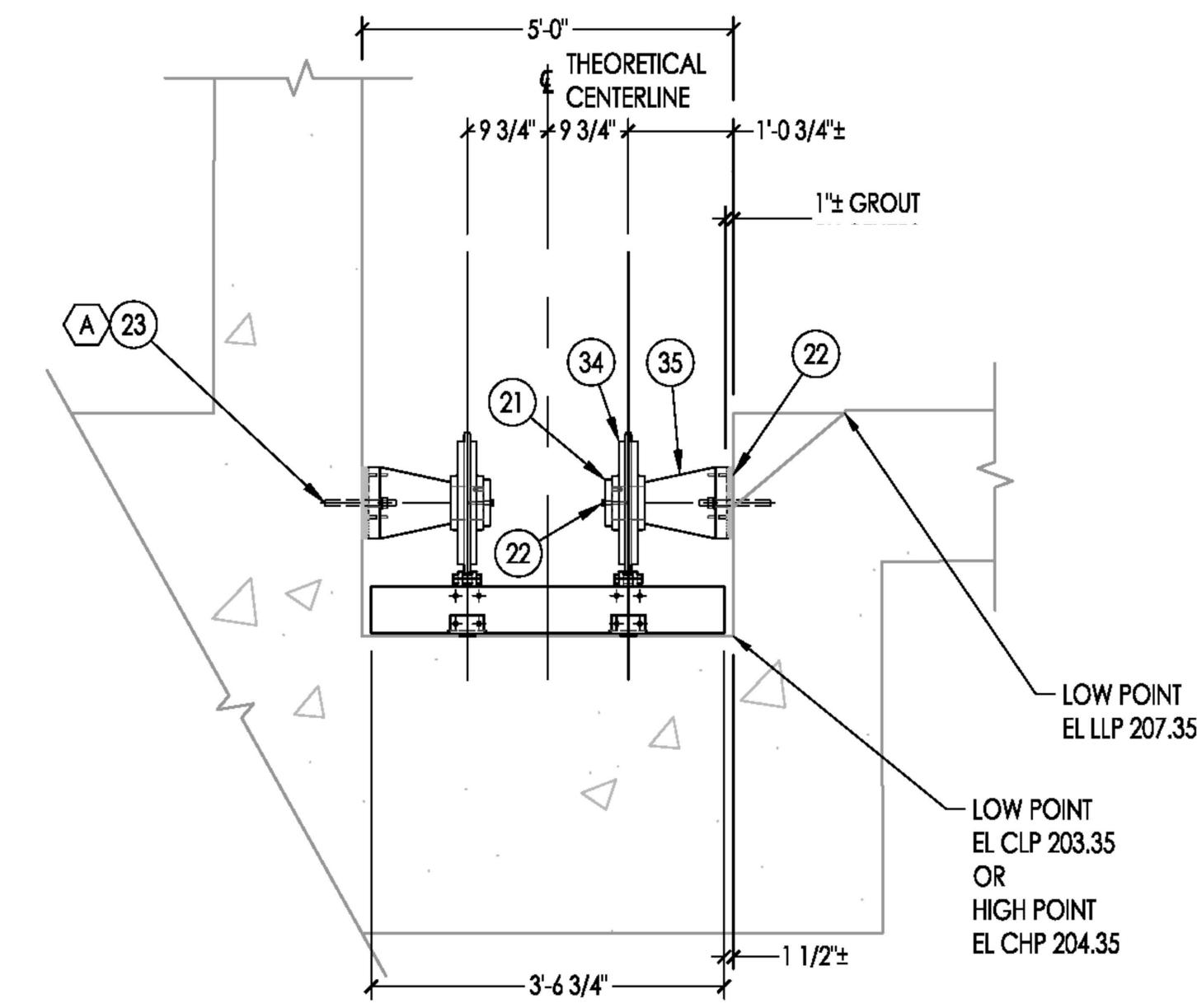
INIT.	
REVISION	
MARK	
DATE	
	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED:  RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 FLOCCULATION BASINS 1 & 8 STAGE 3 SECTION & DETAILS VIEWS	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	11
OF 21 SHEETS	
DRAWING FILE #	WT 7093

9/14/2018 1:01 PM V:\WATER\7093 - FHMT\SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\CAD\7093 - FHMT-BASINS 1 AND 8 REVISED.DWG



PLAN VIEW

FLAG NOTES:
 1. NOT ALL STRUCTURE SHOWN FOR CLARITY. TOP OF DECK SHOWN AROUND DRIVE EQUIPMENT ONLY.

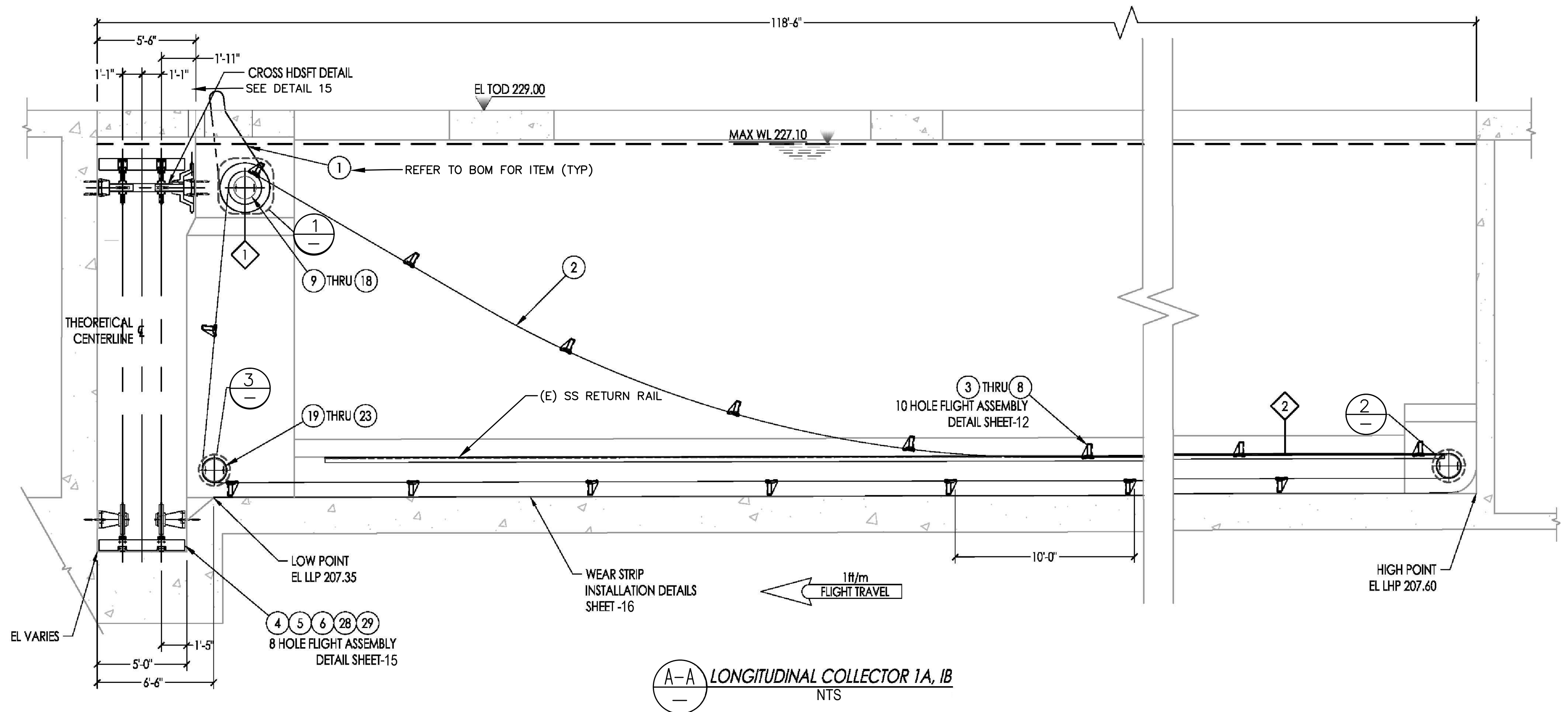


J
 -
 CROSS COLLECTOR LOW IDLER
 NTS
 *T/SFT SIMILAR

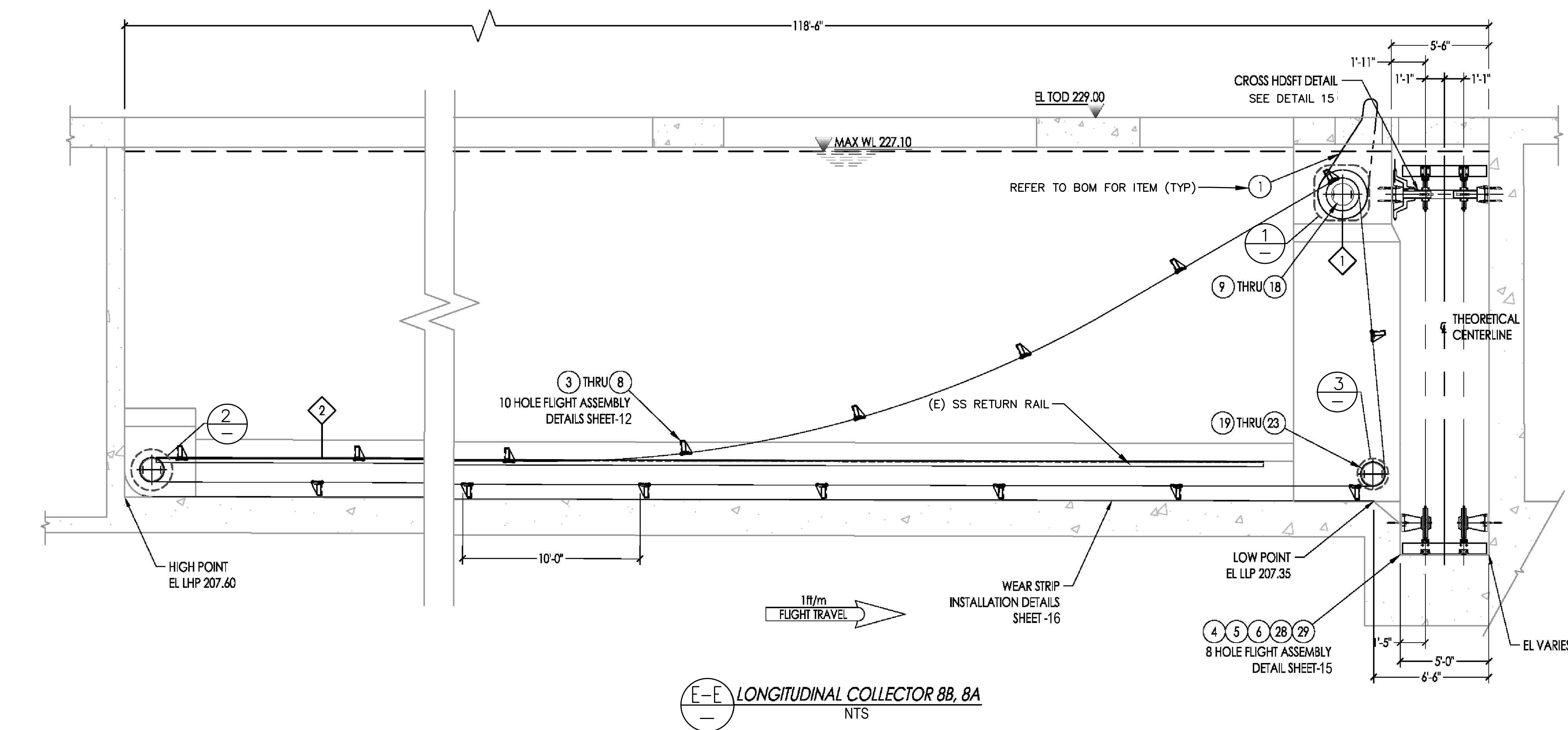
NOTE
 1. SEE SHEET 3 FOR PART'S LIST.

INIT.	
REVISION	
MARK	
DATE	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER ON	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 1 & 8 INSTALLATION AND LAYOUT PLAN VIEW	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	12
OF 21 SHEETS	
DRAWING FILE #	WT 7093

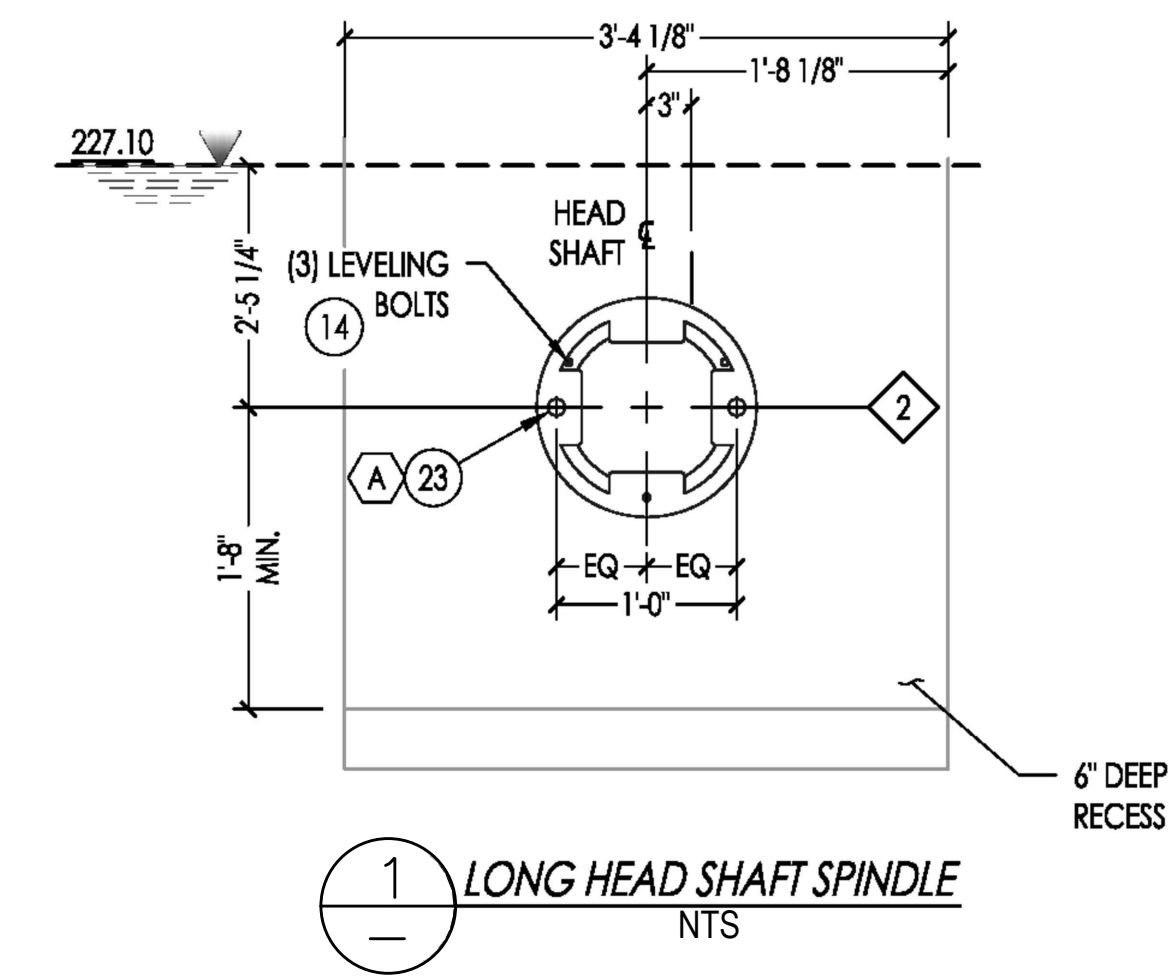
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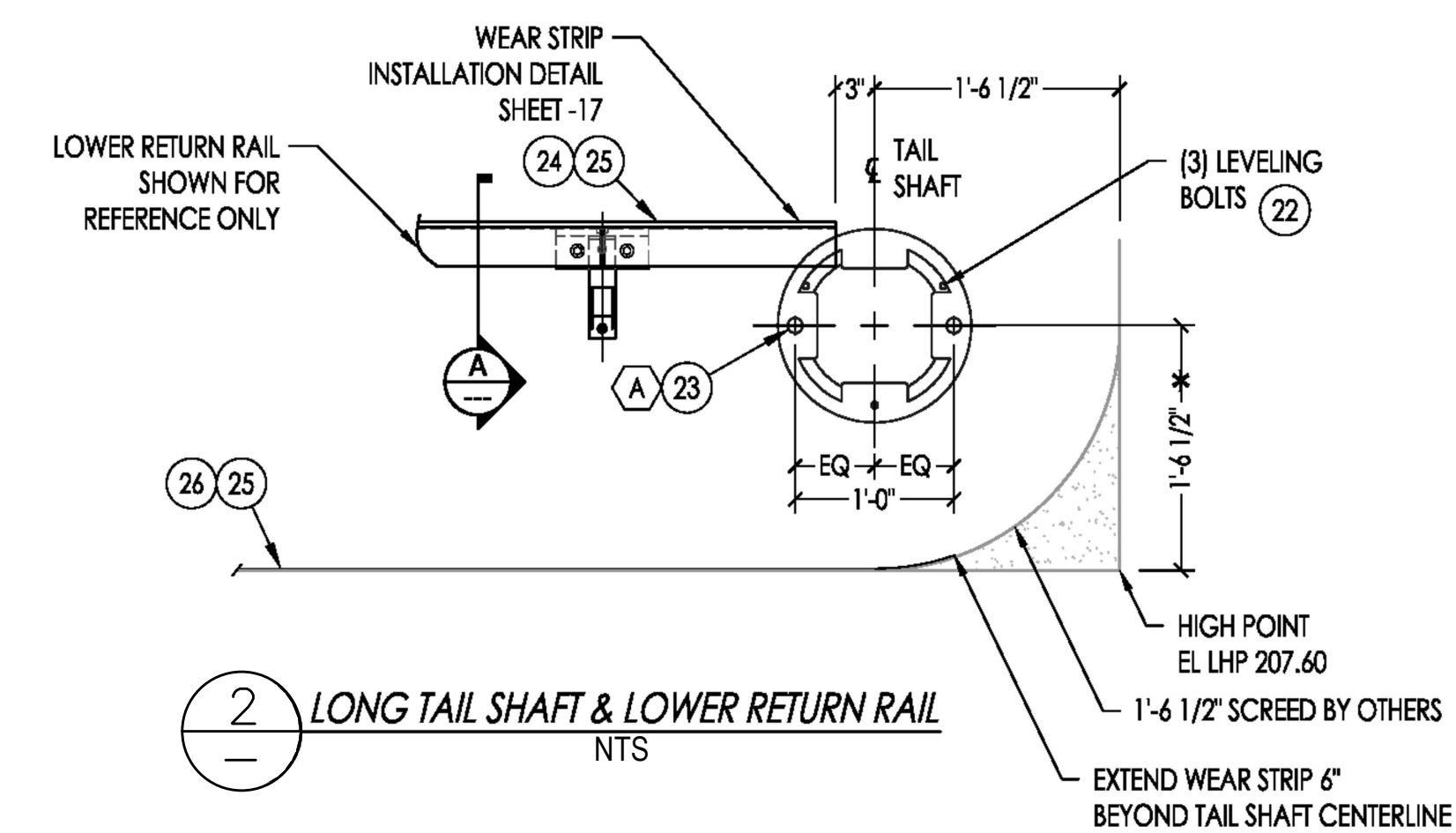
A-A LONGITUDINAL COLLECTOR 1A, 1B
NTS



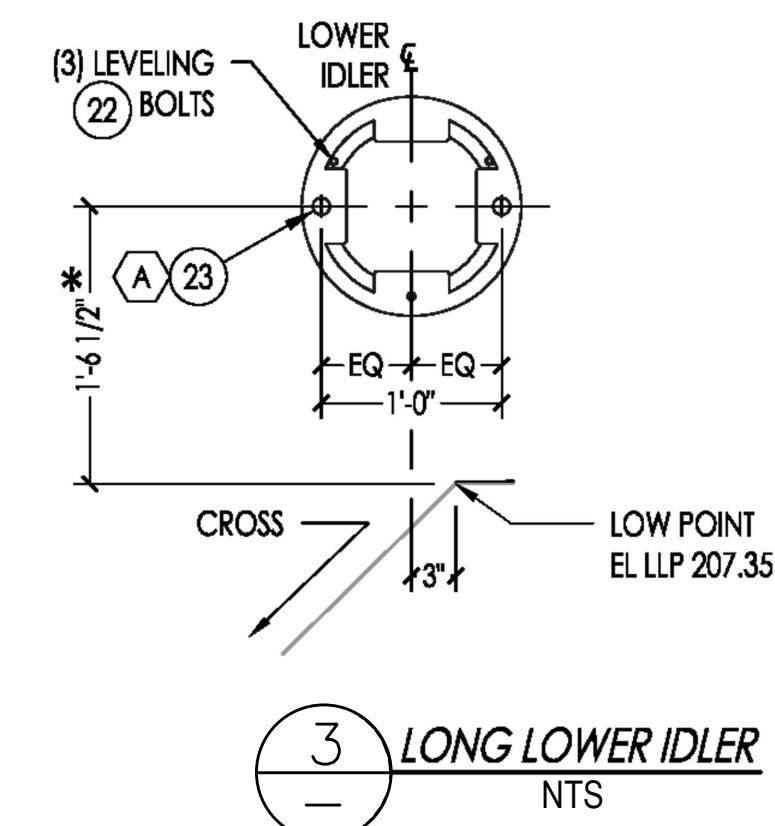
E-E LONGITUDINAL COLLECTOR 8B, 8A
NTS



1 LONG HEAD SHAFT SPINDLE
NTS



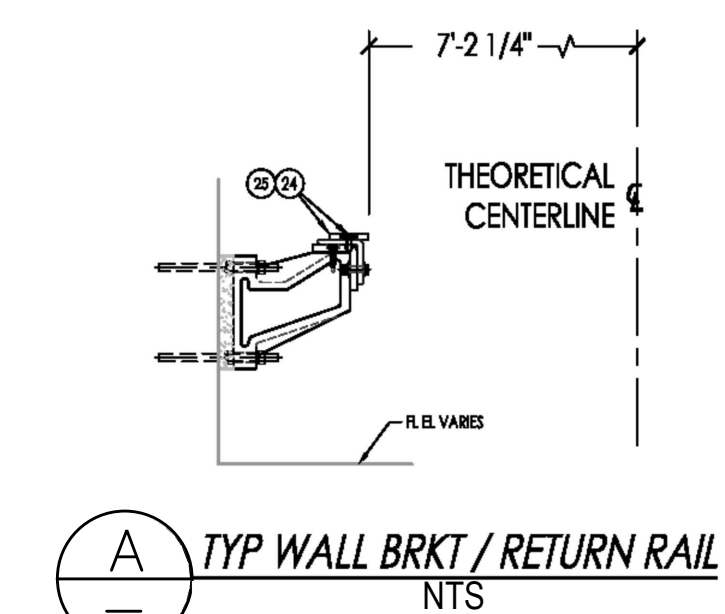
2 LONG TAIL SHAFT & LOWER RETURN RAIL
NTS



3 LONG LOWER IDLER
NTS

NOTE
3. SEE SHEET 3 FOR PART'S LIST.

FLAG NOTES:
1. ROTATE ANCHORS 90° OPPOSITE SIDE TO AVOID INTERFERENCE
2. RETURN RAIL SHOWN FOR REFERENCE ONLY
*SEE GENERAL NOTE 12 ON SHEET 2.
3. SEE SHEET 3 FOR PART'S LIST.



A TYP WALL BRKT / RETURN RAIL
NTS

INIT.	REVISION	MARK	DATE

CITY OF VALLEJO

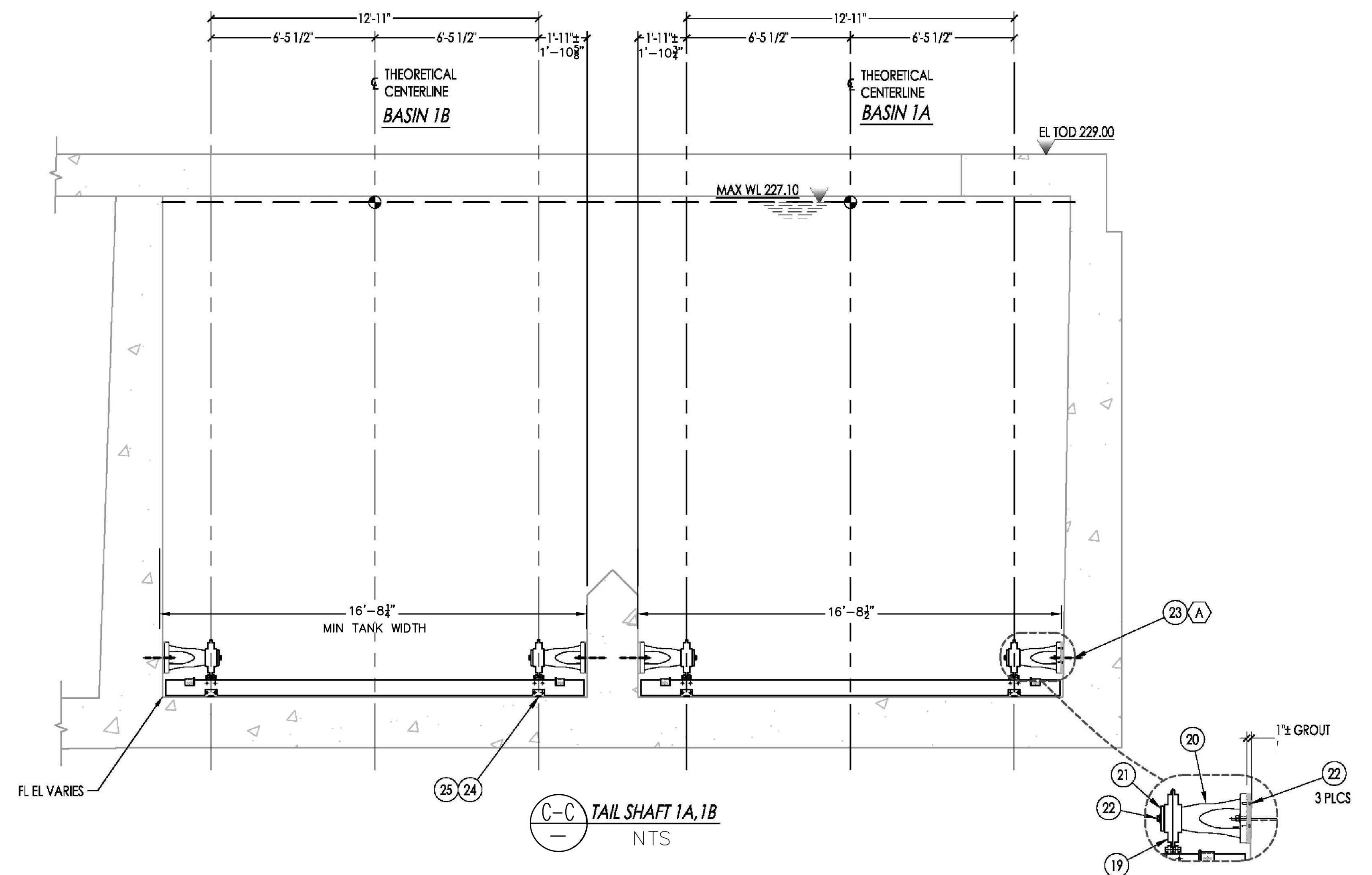
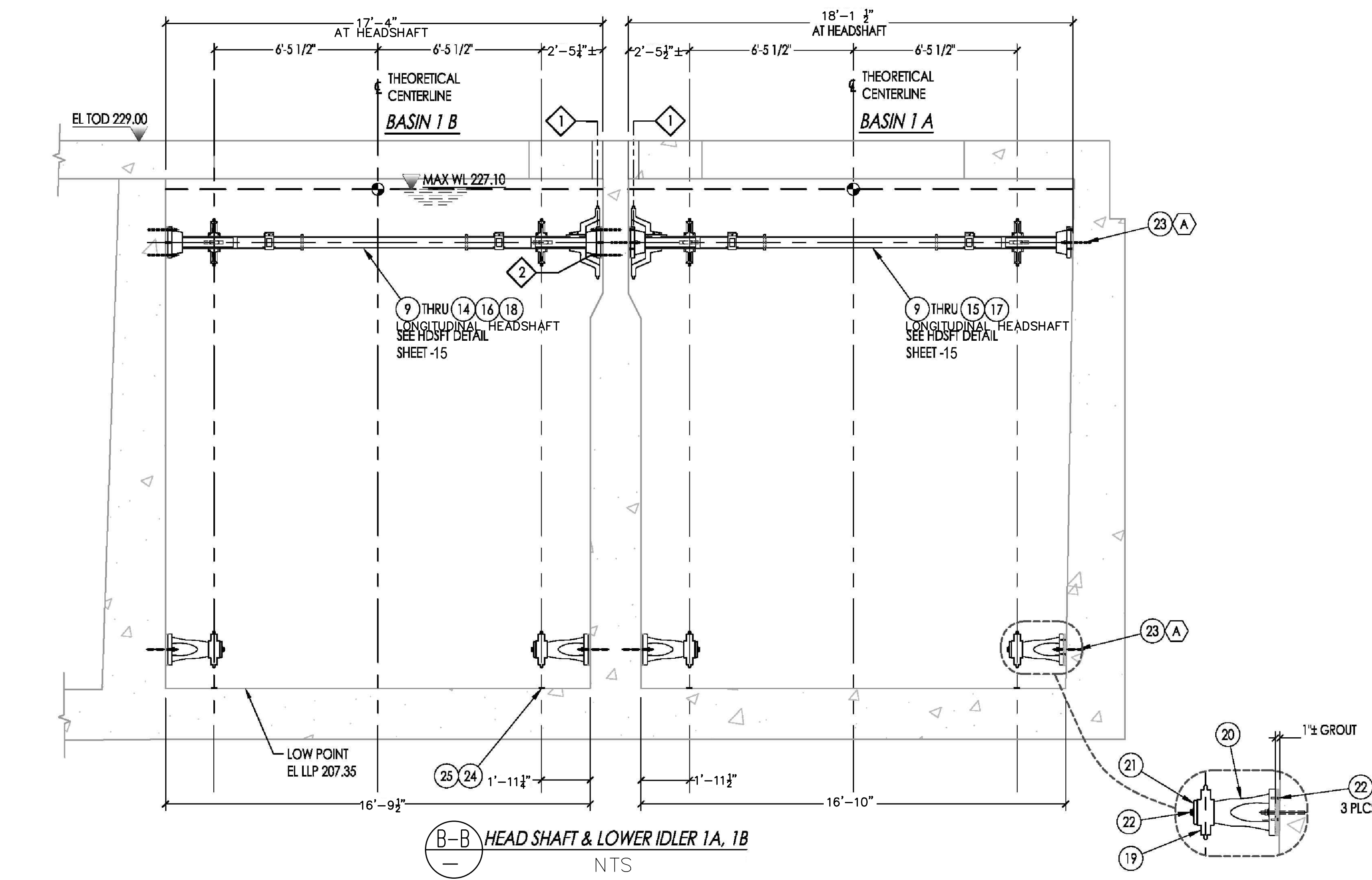
WATER DEPARTMENT

APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER


FLEMING HILL WATER TREATMENT PLANT
FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093
SEDIMENTATION BASINS 1 & 8
INSTALLATION AND LAYOUT
LONGITUDINAL COLLECTOR

CITY PROJECT # WT 7093
DESIGN BY J JACKSON
DRAWN BY R. ZAMBRANA
CHECKED BY M. SOKOLI R. WILSON
DATE 02/12/18
SCALE AS SHOWN
SHEET 13 OF 21 SHEETS
DRAWING FILE # WT 7093

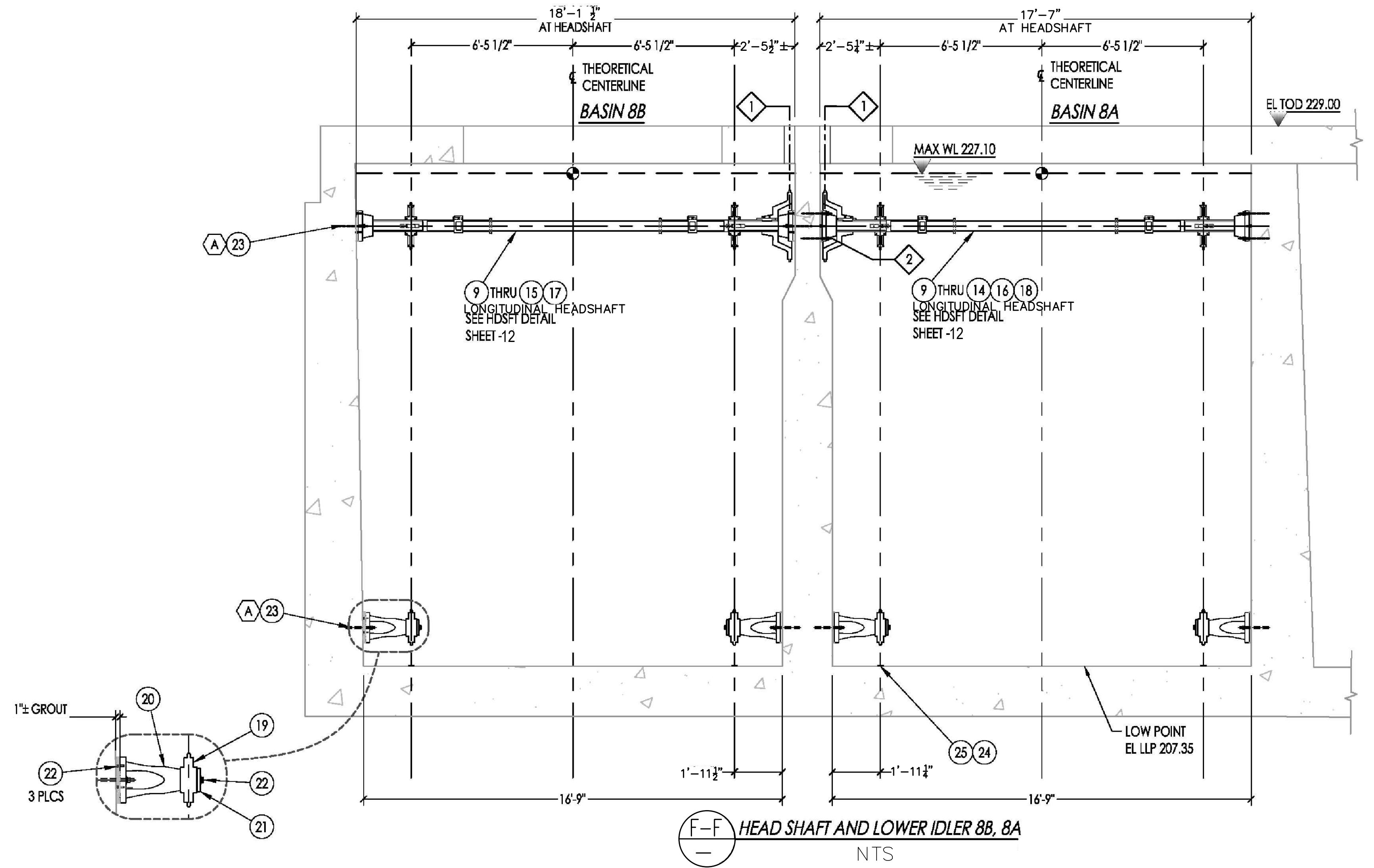
- FLAG NOTES:
 1. DRIVES NOT SHOWN FOR CLARITY
 2. ROTATE ANCHORS 90° THIS SIDE TO AVOID INTERFERENCE
 3. SEE SHEET 3 FOR PART'S LIST.



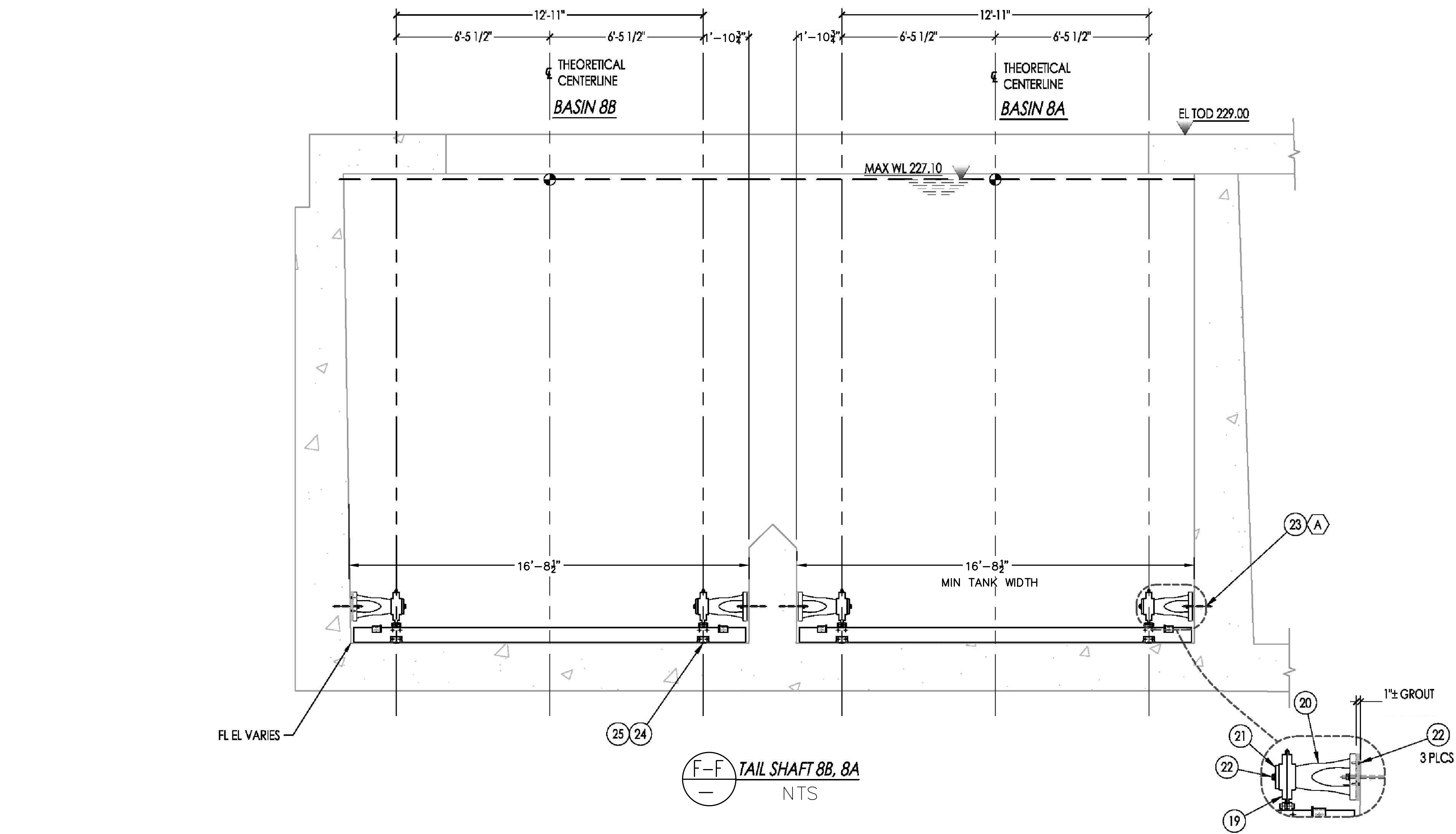
9/14/2018 1:01 PM V:\WATER\7093 - FHMT/SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\CAD\7093 - FHMT-BASINS 1 AND 8 REVISED.DWG

INIT.	
REVISION	
MARK	
DATE	
	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 1 INSTALLATION AND LAYOUT HEAD AND TAIL SHAFT	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOLI R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	14
OF 21 SHEETS	
DRAWING FILE #	WT 7093

- FLAG NOTES:
 1. DRIVES NOT SHOWN FOR CLARITY
 2. ROTATE ANCHORS 90° THIS SIDE TO AVOID INTERFERENCE
 3. SEE SHEET 3 FOR PART'S LIST.



(F-F) HEAD SHAFT AND LOWER IDLER 8B, 8A
 NTS

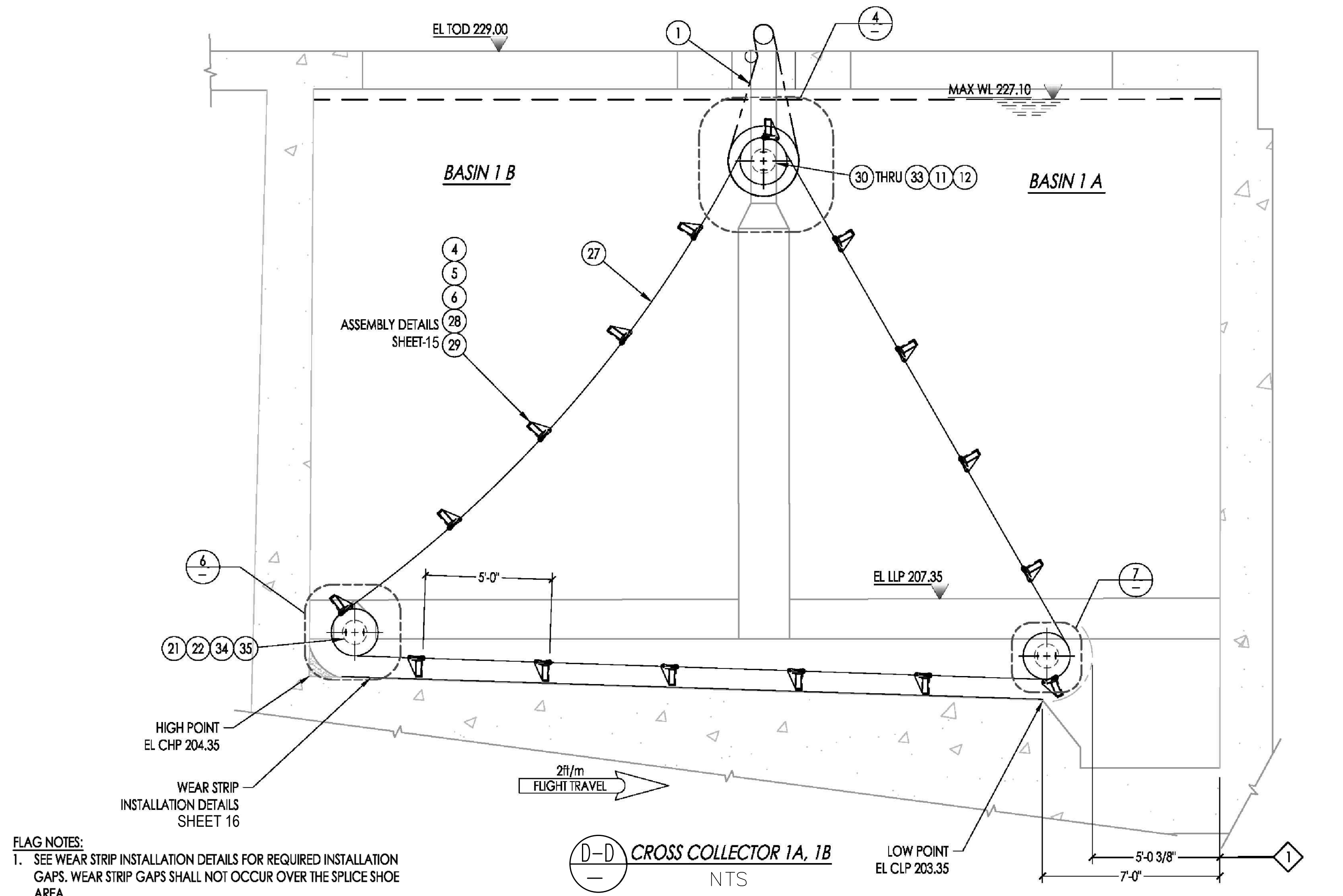


(F-F) TAIL SHAFT 8B, 8A
 NTS

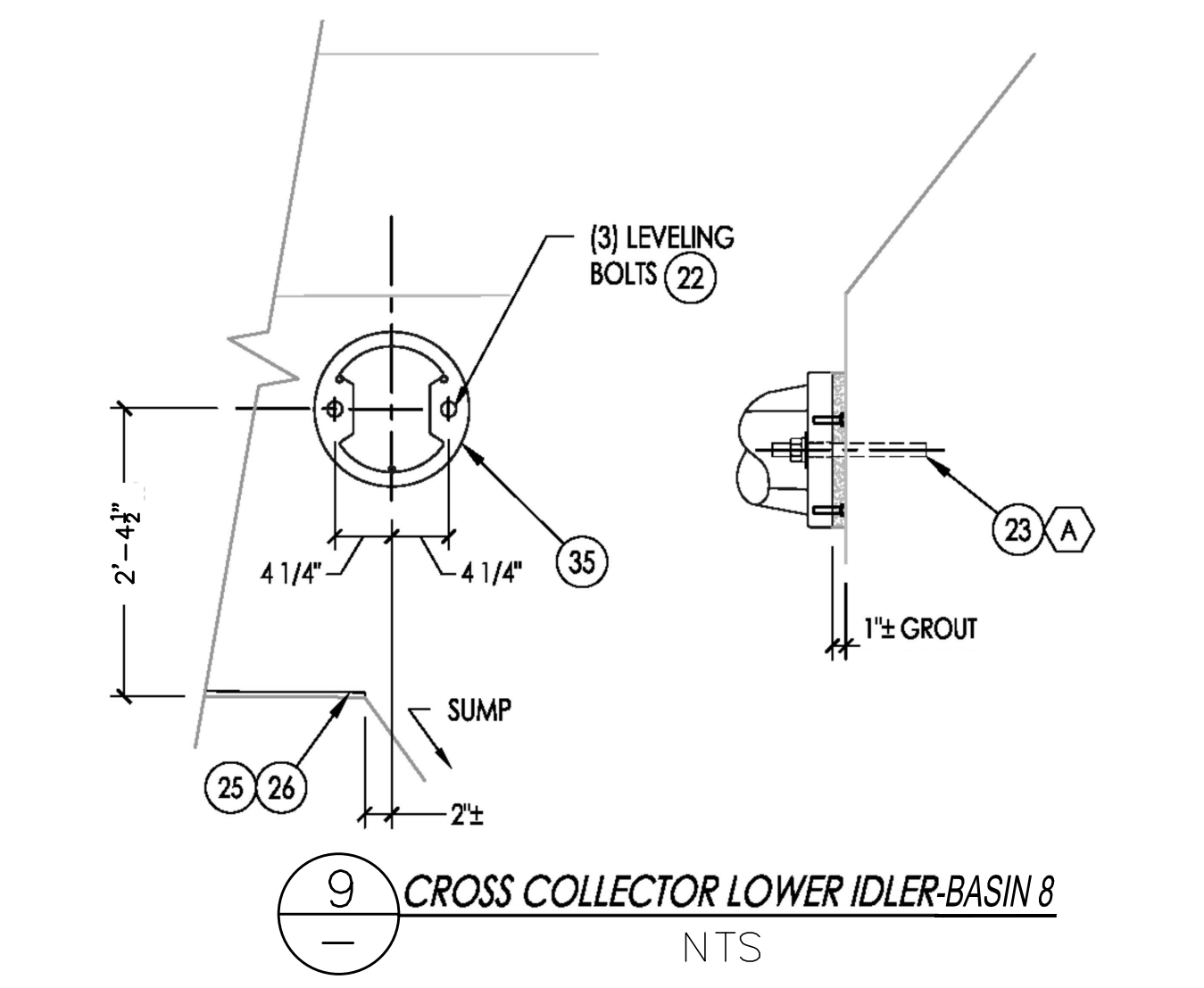
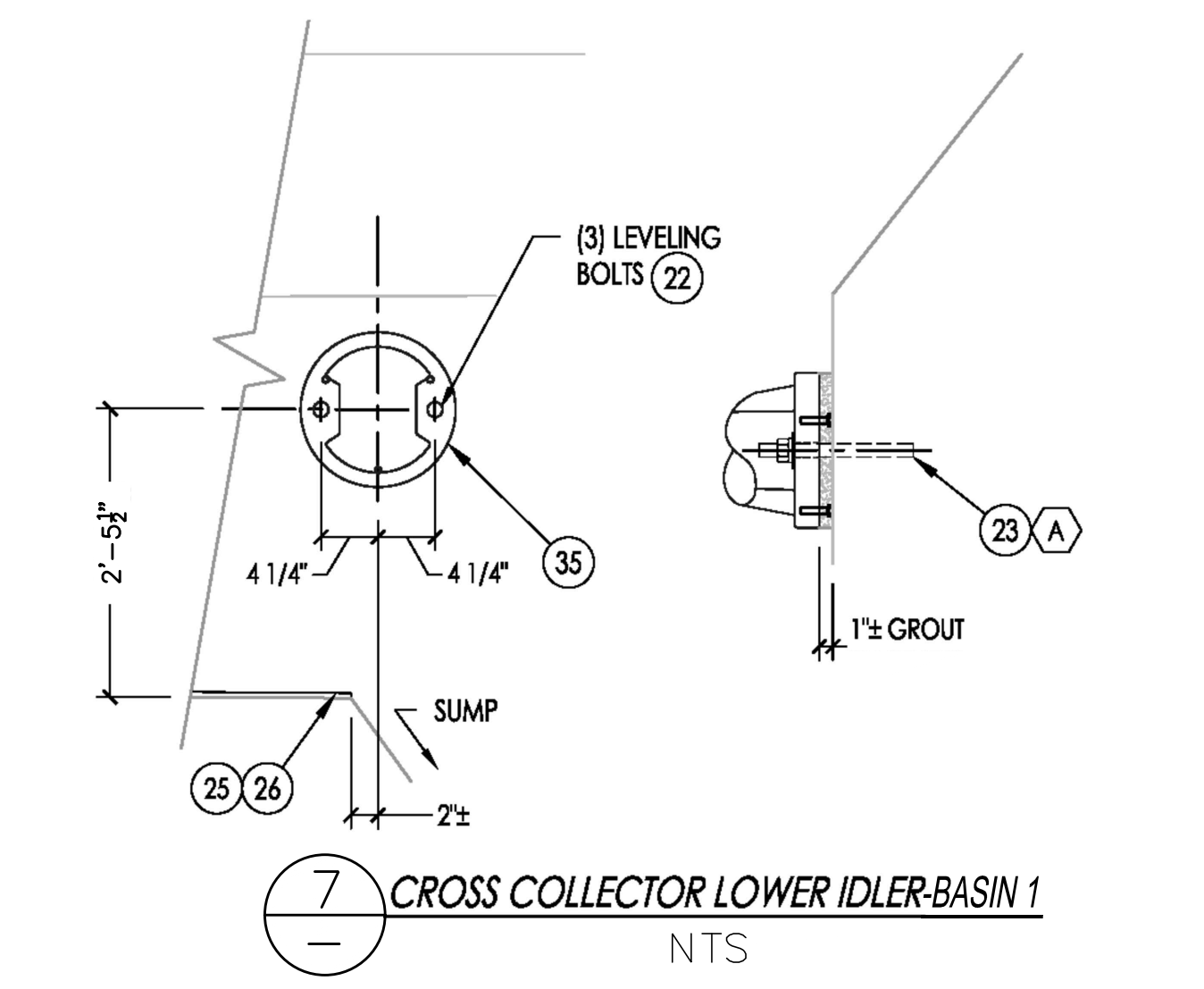
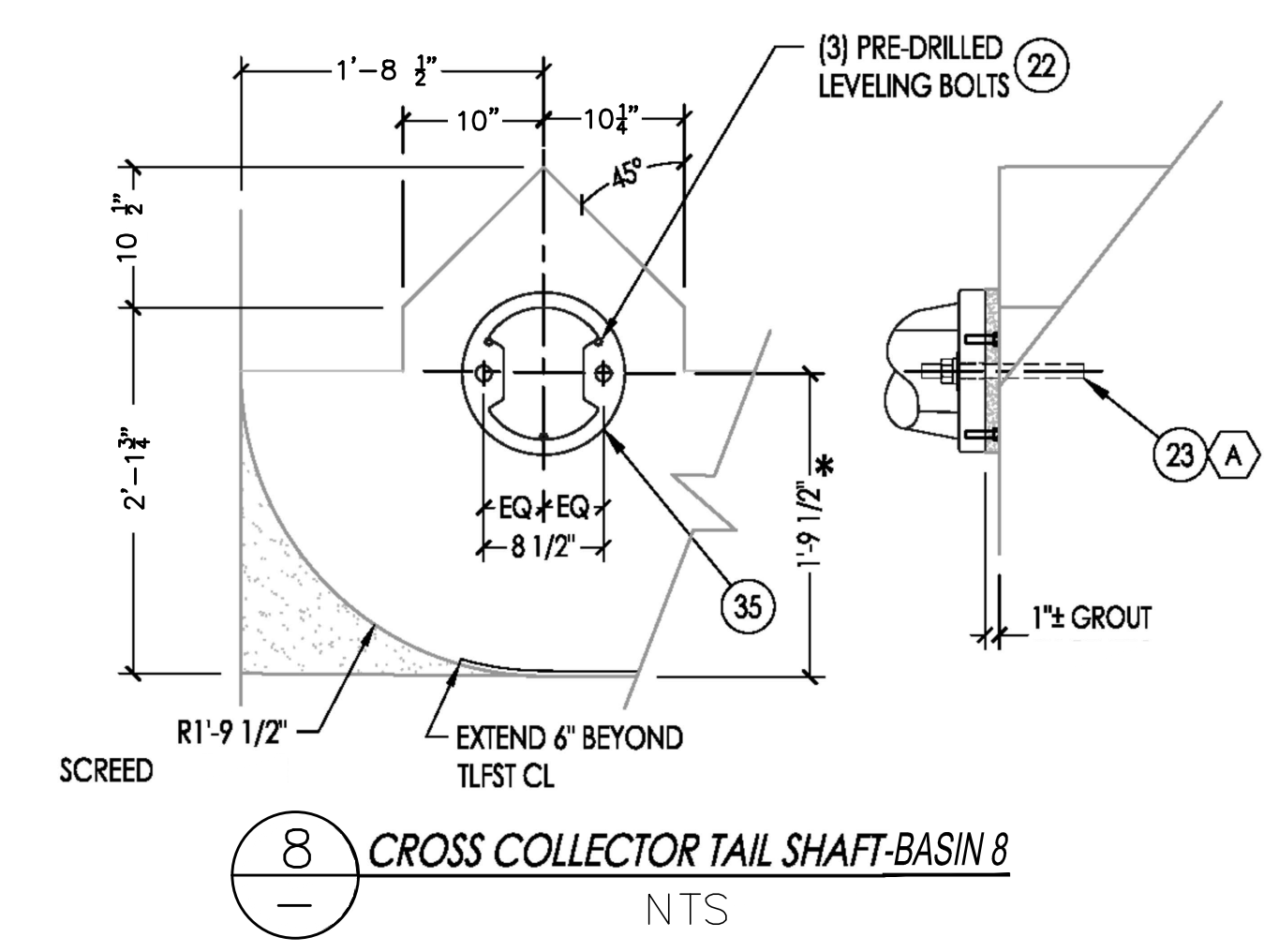
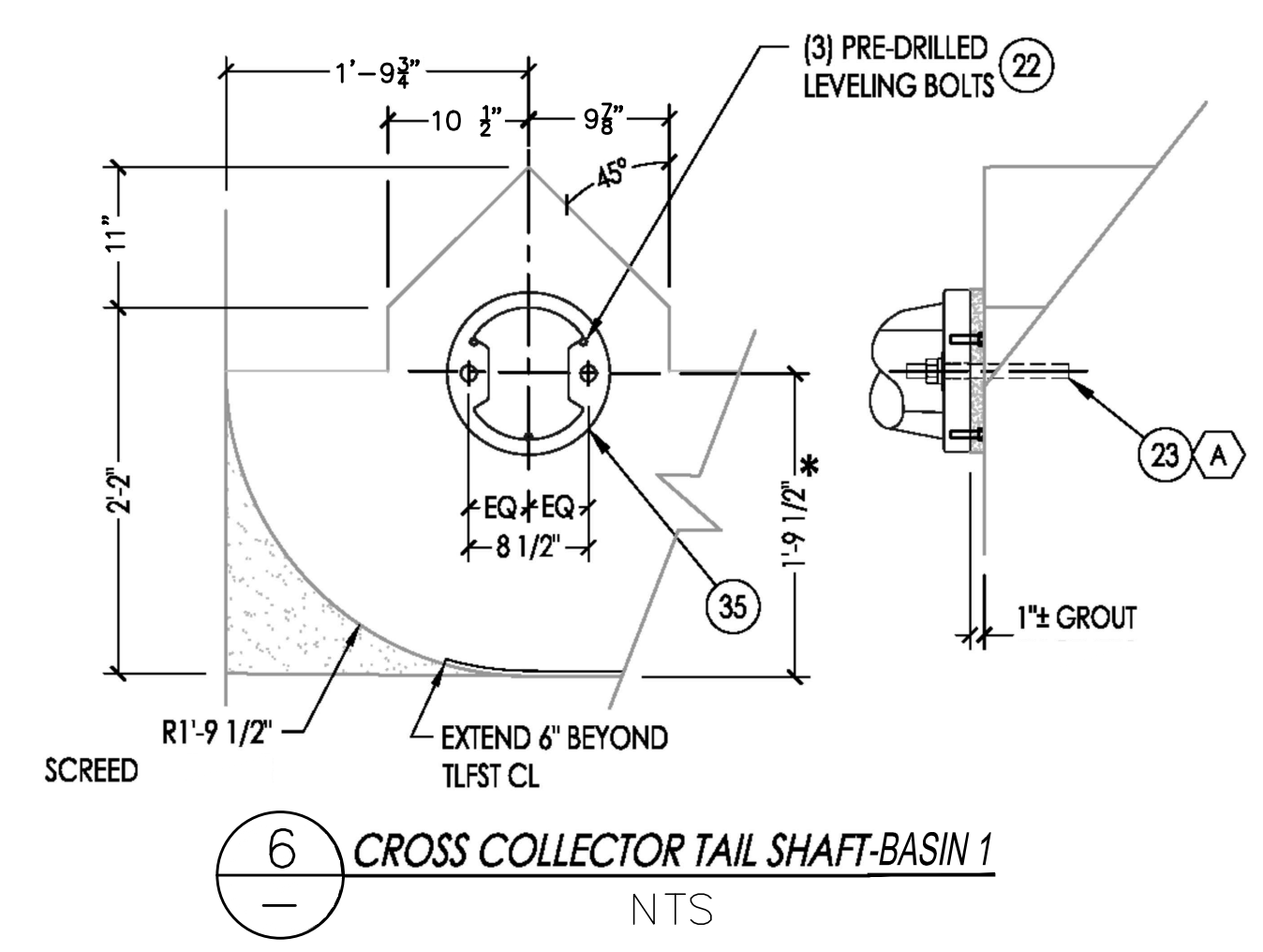
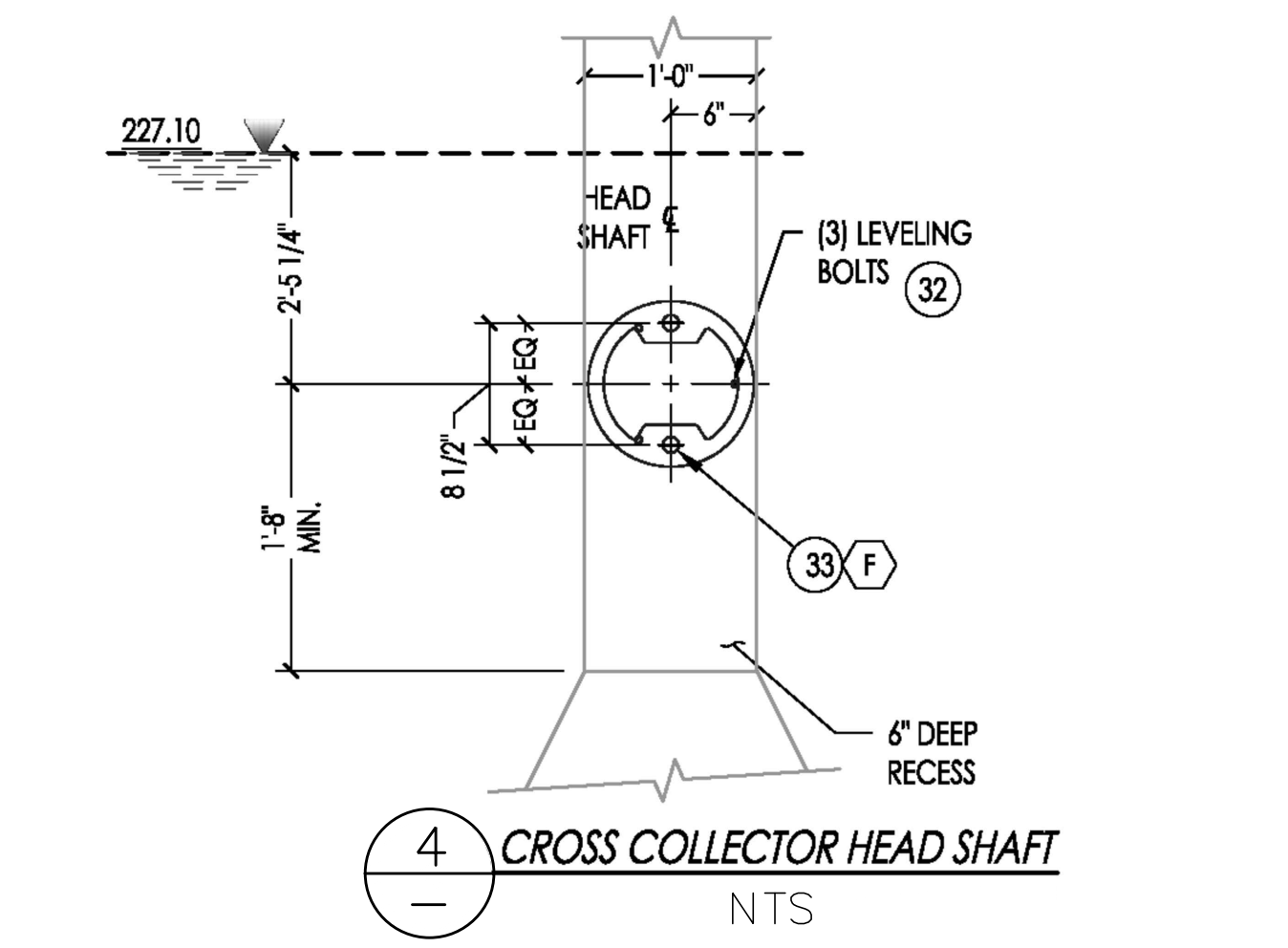
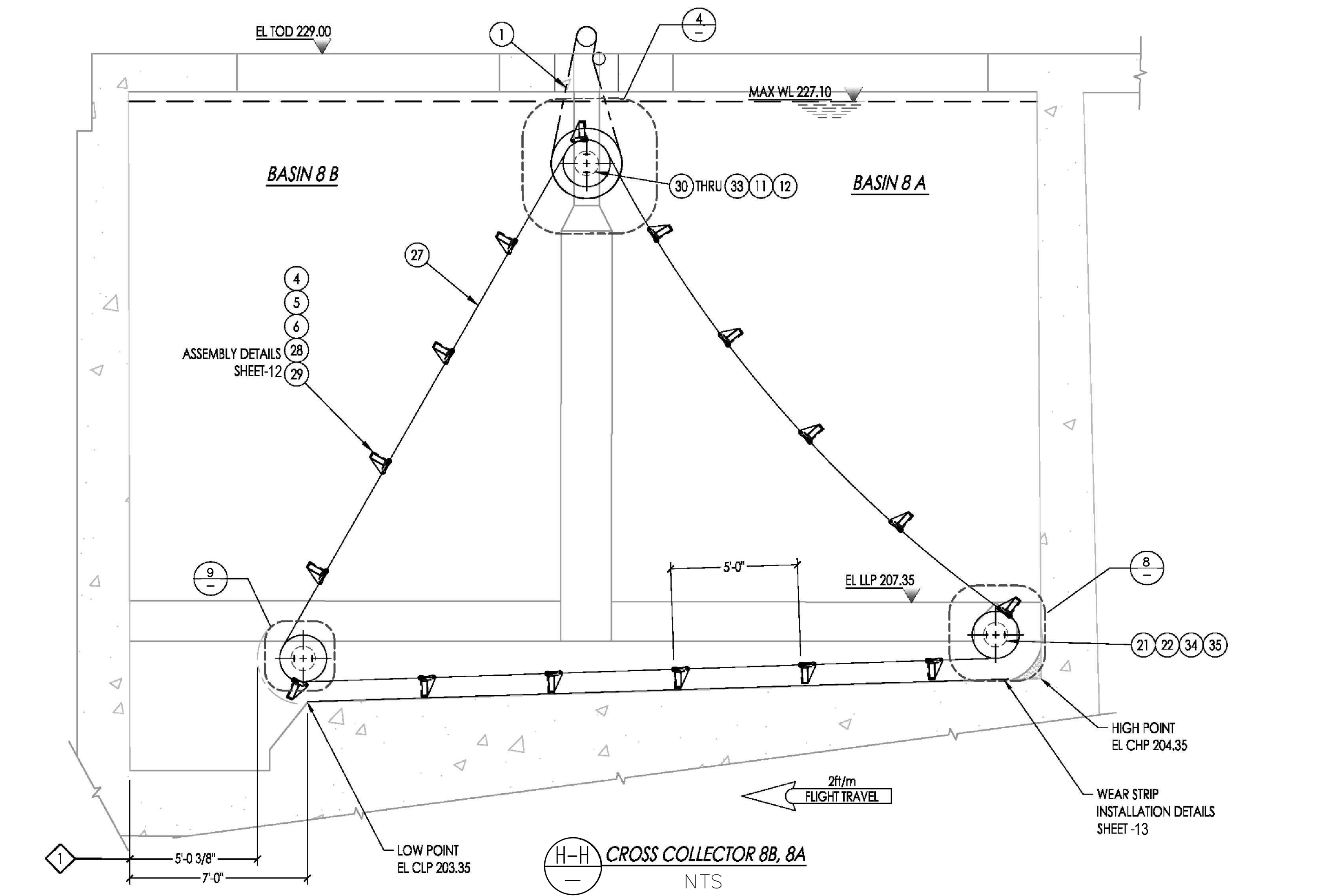
9/14/2018 1:01 PM V:\WATER\7093 - FHWP\SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\CAD\7093 - FHWP-BASINS 1 AND 8 REVISED.DWG

INIT.	
REVISION	
MARK	
DATE	
	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED:  RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 8 INSTALLATION AND LAYOUT HEAD AND TAIL SHAFT	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	15
OF 21 SHEETS	
DRAWING FILE #	WT 7093

9/14/2018 1:01 PM V:\WATER\7093 - FHWP SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FHWP-BASINS 1 AND 8 REVISED.DWG

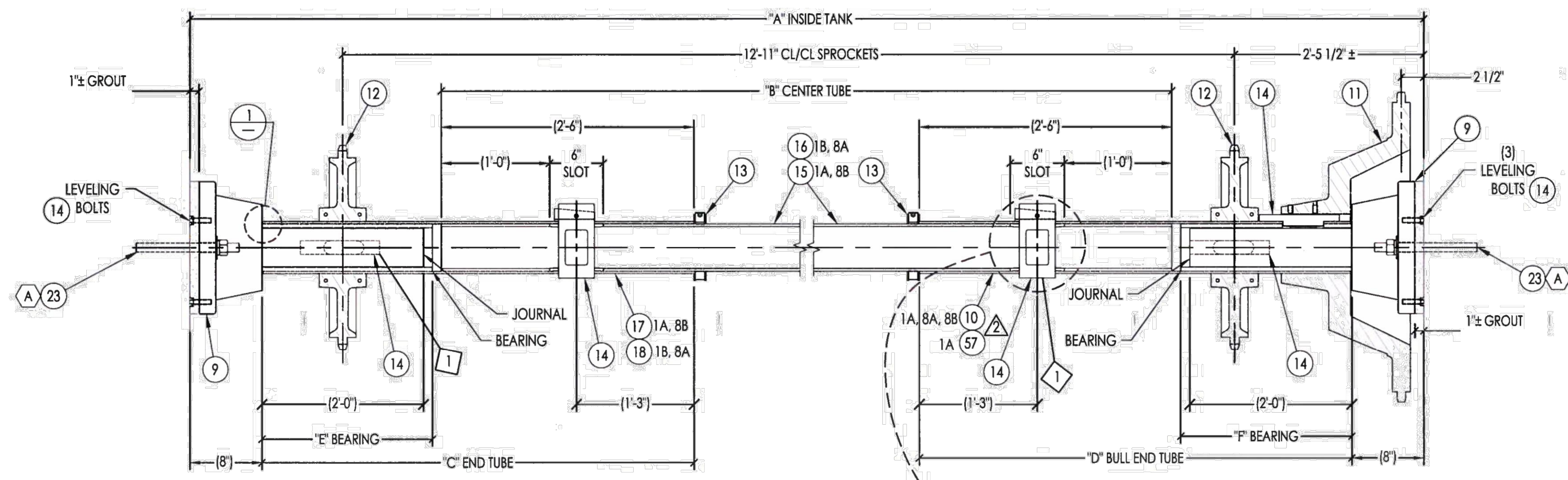


FLAG NOTES:
 1. SEE WEAR STRIP INSTALLATION DETAILS FOR REQUIRED INSTALLATION GAPS. WEAR STRIP GAPS SHALL NOT OCCUR OVER THE SPLICE SHOE AREA.
 2. ROTATE OPPOSITE SIDE 90°



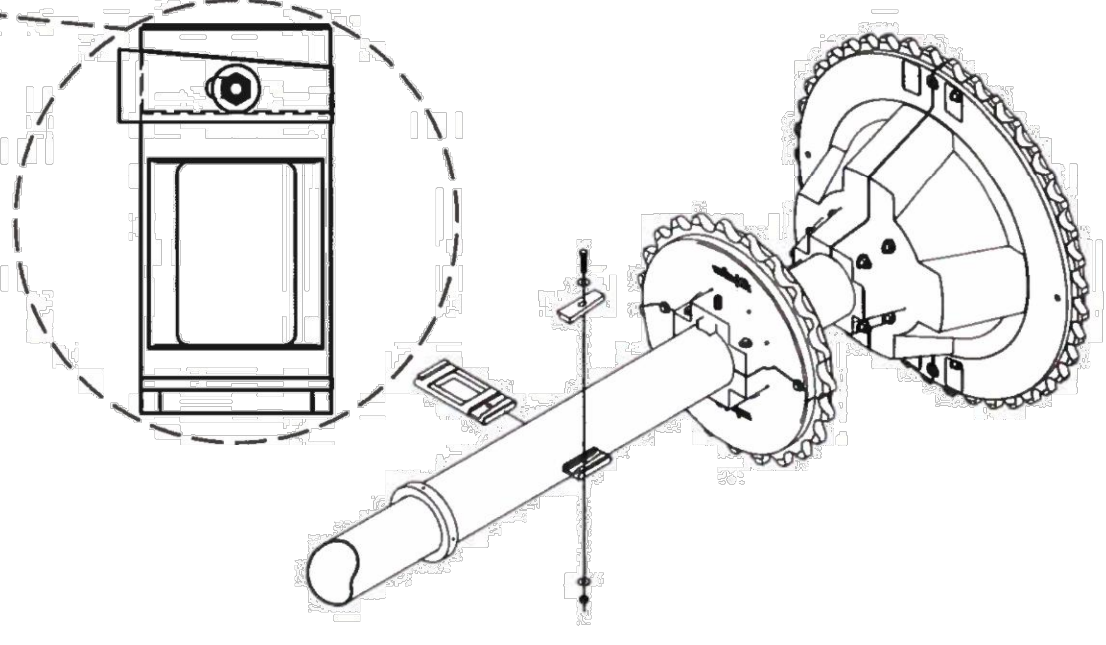
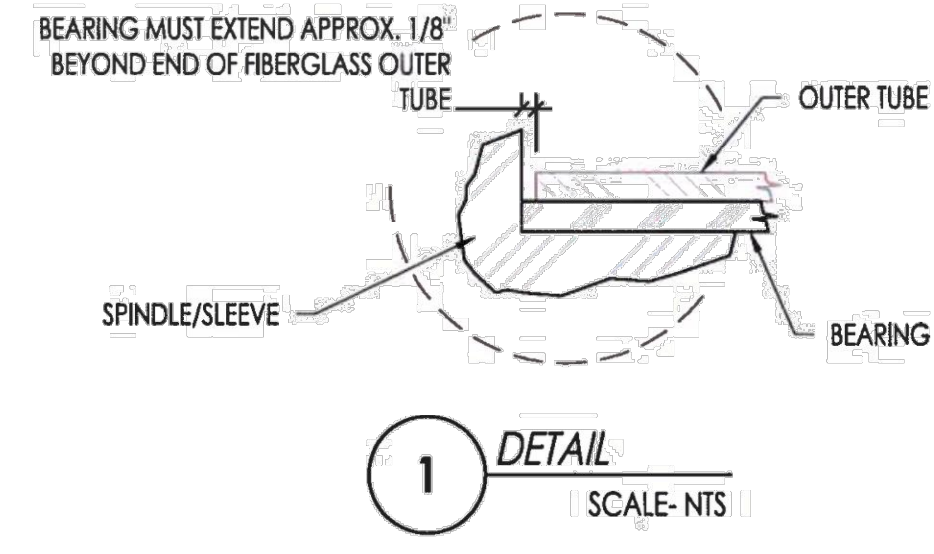
FLAG NOTES:
 1. ANY NON-CHAIN & FLT EQMNT PAST THIS POINT WILL DAMAGE SYSTEM.
 2. SEE SHEET 3 FOR PARTS LIST.

INIT.	
REVISION	
MARK	
DATE	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER ON	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 1 & 8 INSTALLATION AND LAYOUT CROSS COLLECTOR	
CITY PROJECT # WT 7093 DESIGN BY J JACKSON DRAWN BY R. ZAMBRANA CHECKED BY M. SOKOL R. WILSON DATE 02/12/18 SCALE AS SHOWN SHEET	
16 OF 21 SHEETS DRAWING FILE # WT 7093	

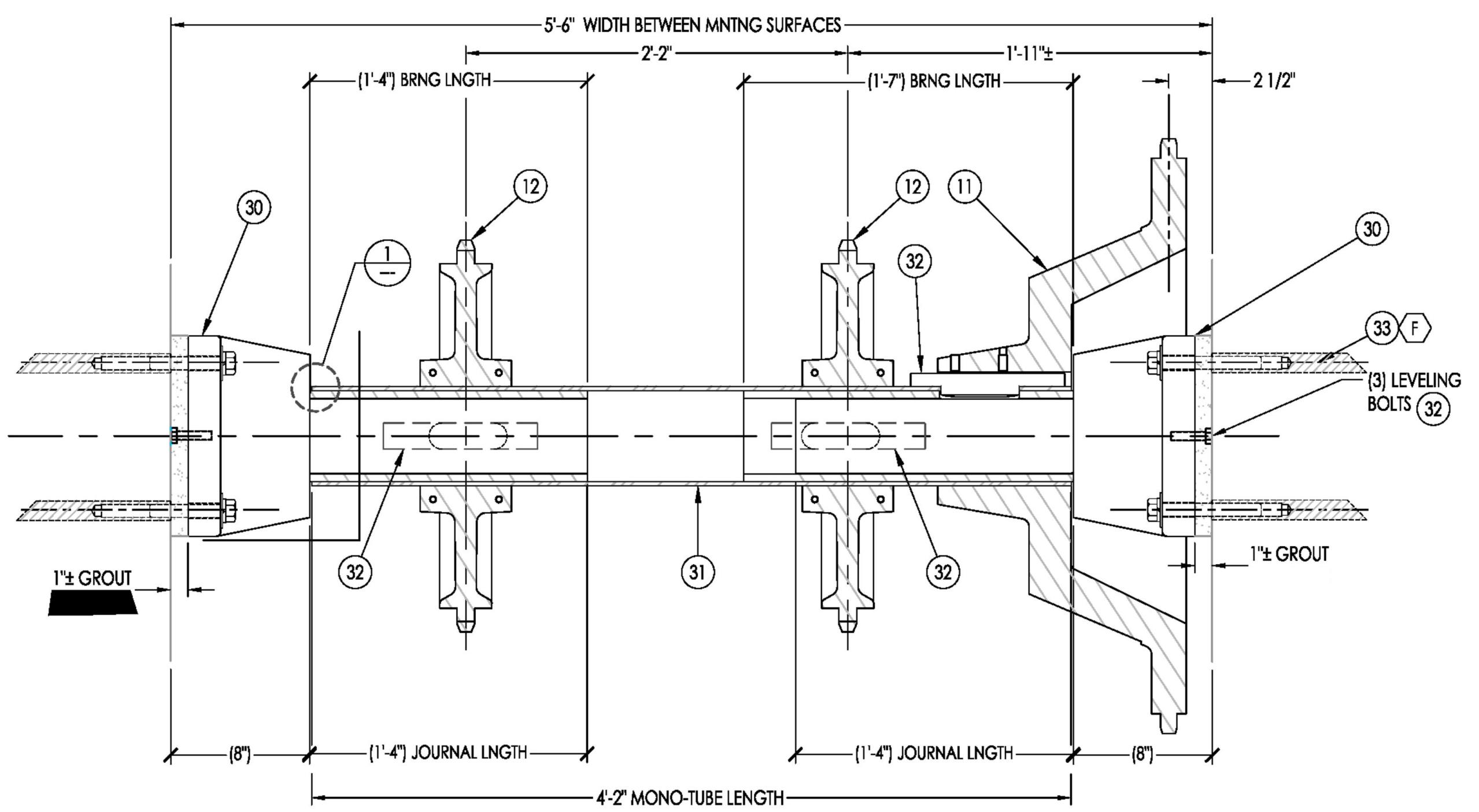


DETAIL SHEET: LONGITUDINAL HEAD SHAFT
SCALE: NTS

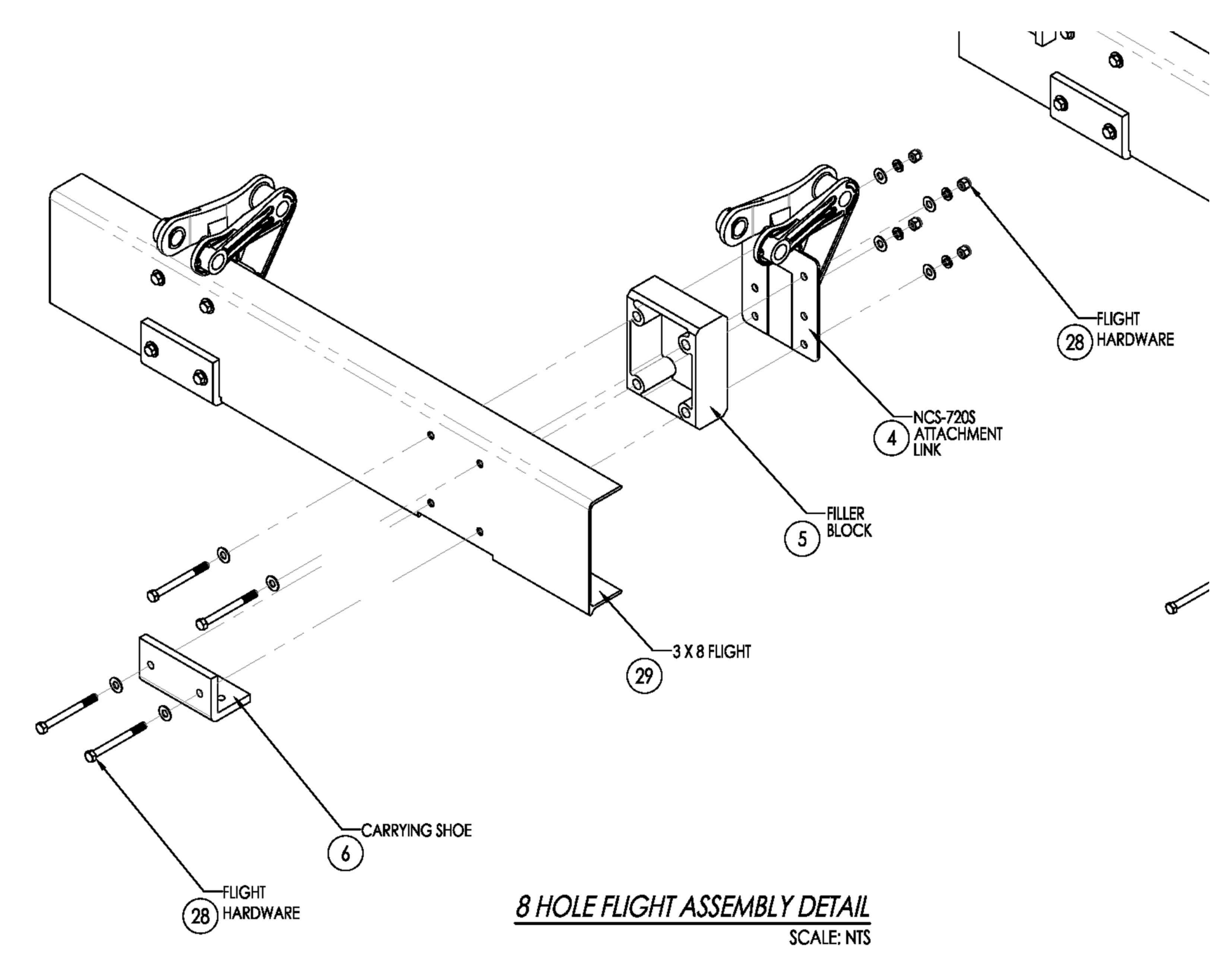
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A	18'-1 1/4"	17'-4"	17'-7"	18'-1 1/2"
B	12'-0"	11'-8"	11'-11"	12'-0"
C	5'-1"	4'-8"	4'-8"	5'-2"
D	4'-9"	4'-8"	4'-8"	4'-8"
E	2'-5"	2'-0"	2'-0"	2'-6"
F	2'-1"	2'-0"	2'-0"	2'-0"



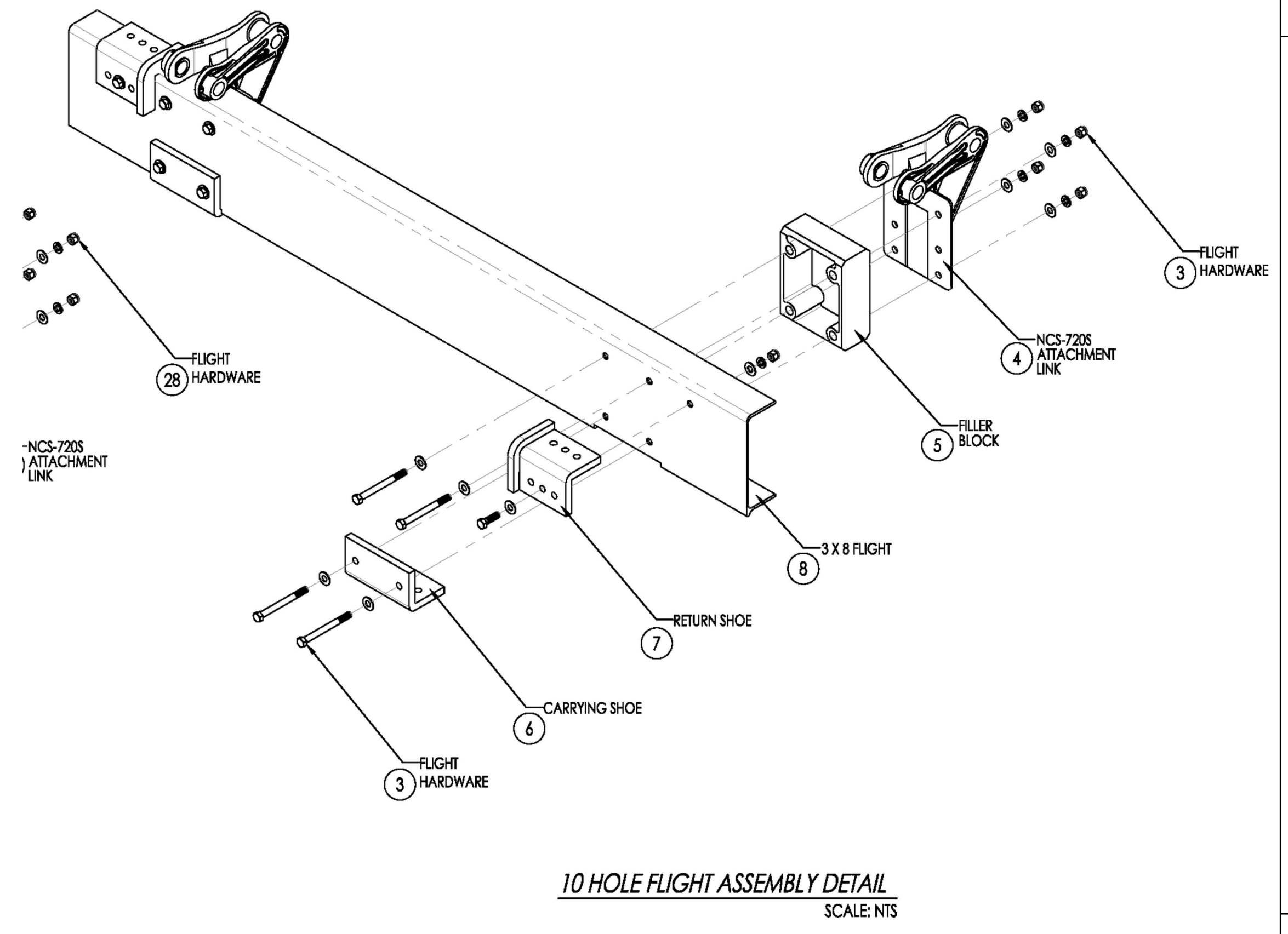
- FLAG NOTES:**
- ASSEMBLE SHAFT WITH THE END TUBE KEY AND THE BULL END TUBE KEY ON THE SAME SIDE OF SHAFT
 - SEE SHEETS 12 & 13 FOR PARTS LIST.



DETAIL SHEET: CROSS COLLECTOR HEAD SHAFT
SHEET-11 NTS



8 HOLE FLIGHT ASSEMBLY DETAIL
SCALE: NTS

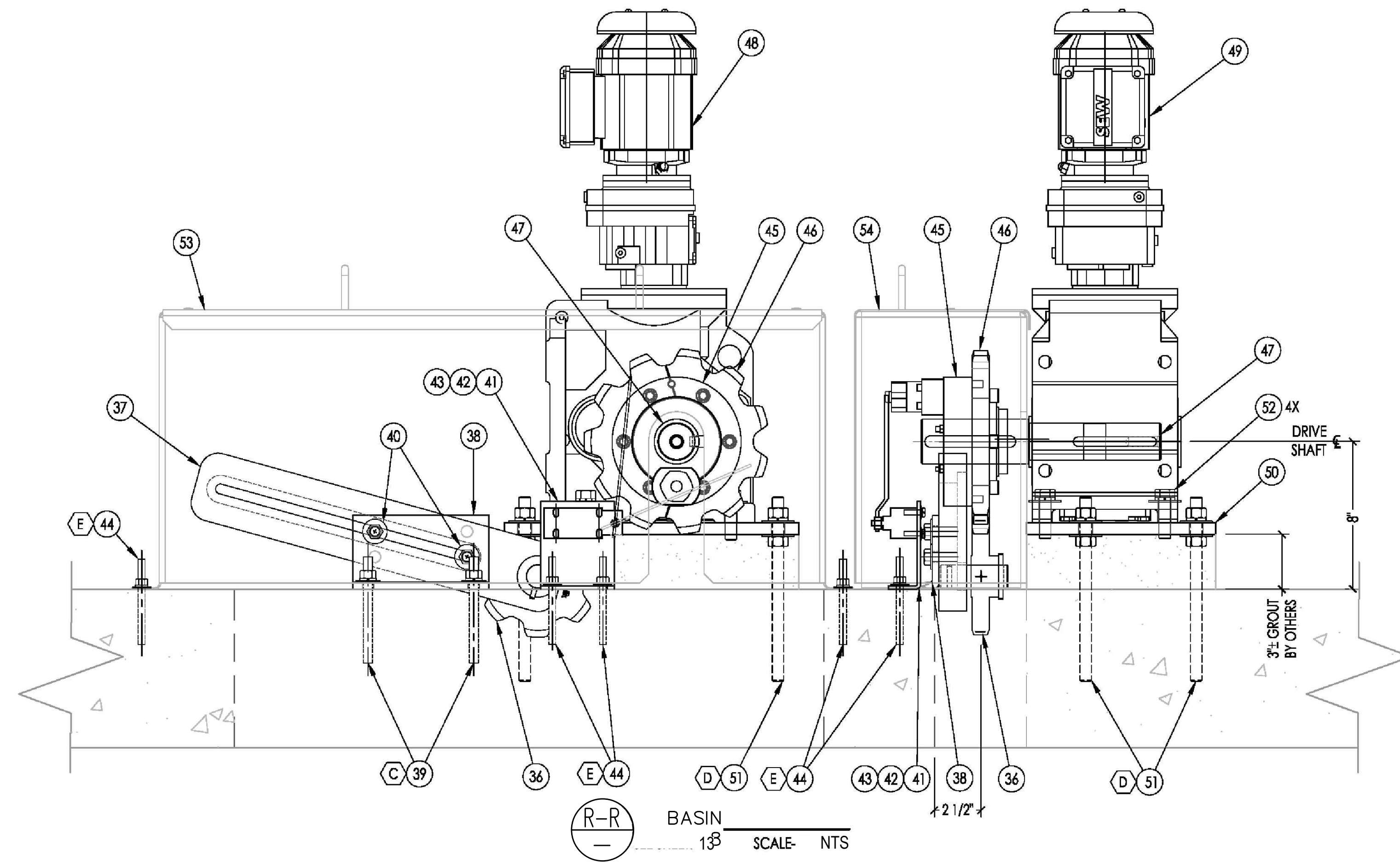
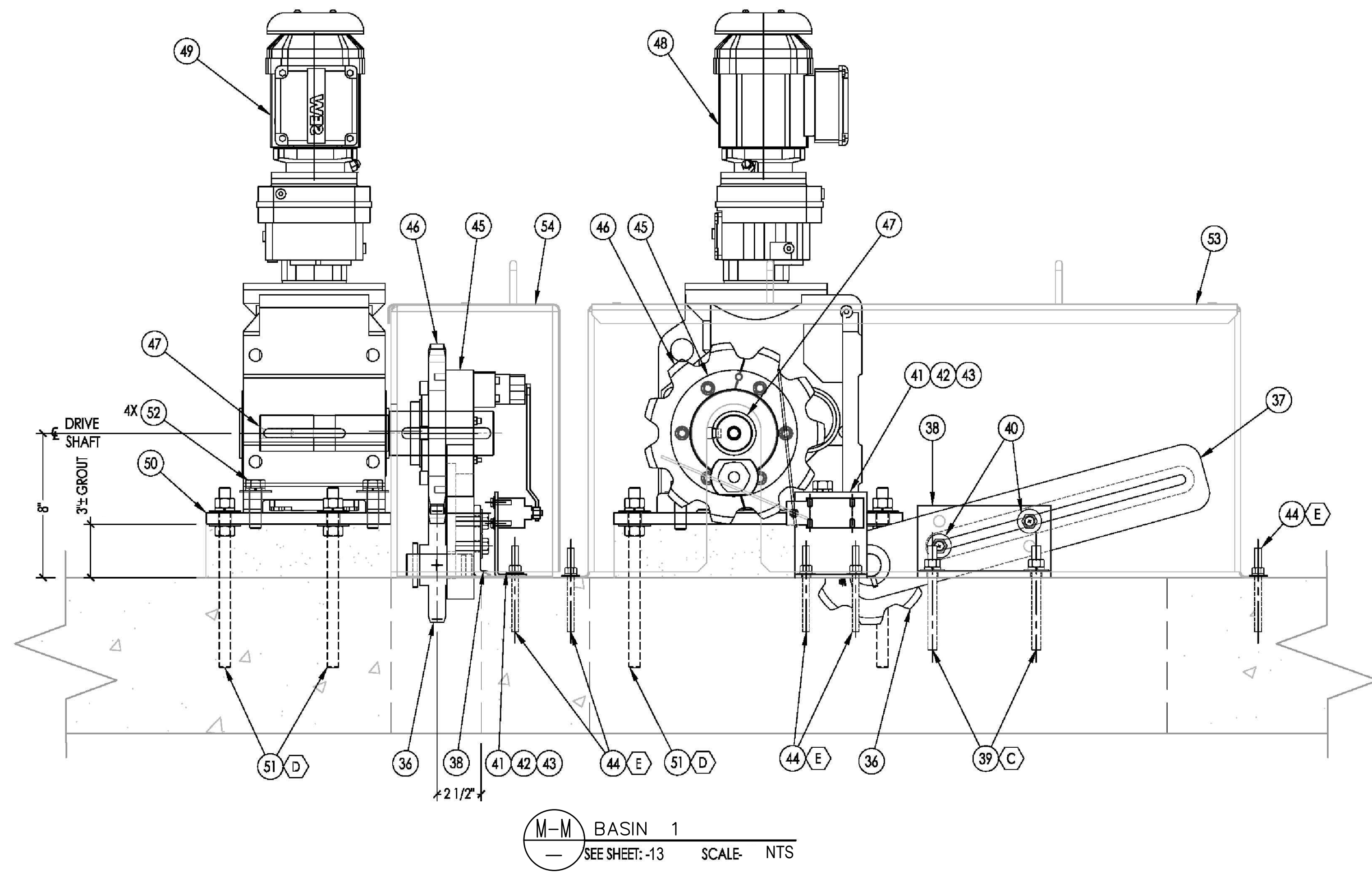


10 HOLE FLIGHT ASSEMBLY DETAIL
SCALE: NTS

9/14/2018 1:01 PM V:\WATER\7093 - FHMTD SED & FLOC CHAMBER EQUIPMENT UPGRADE\DWG\7093 - FHMTD-BASINS 1 AND 8 REVISED.DWG

INIT.									
REVISION									
MARK									
DATE									
CITY OF VALLEJO					WATER DEPARTMENT APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER				
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 1 & 8 DETAIL SHEET CROSS COLLECTOR AND LONGITUDINAL HEAD SHAFT									
CITY PROJECT # WT 7093 DESIGN BY J JACKSON DRAWN BY R. ZAMBRANA CHECKED BY M. SOKOL R. WILSON DATE 02/12/18 SCALE AS SHOWN									
17 OF 21 SHEETS DRAWING FILE # WT 7093									

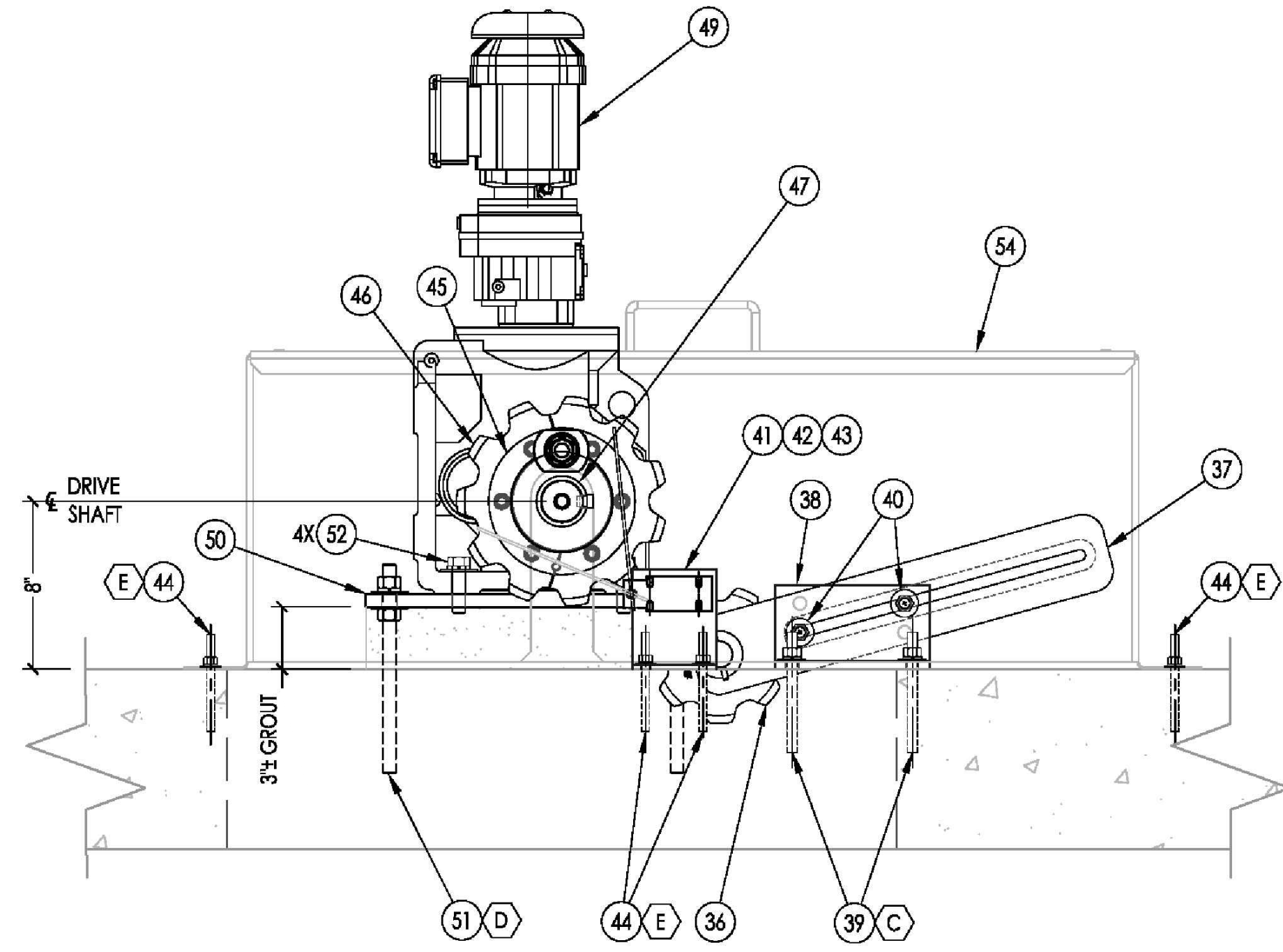
INSTALLATION NOTES
 1. LUBRICATE BEARING SLEEVE PRIOR TO SHAFT INSTALLATION.
 2. COAT INPUT OF SHAFT AT DRIVE UNIT AS WELL AS ALL CONTACT SPOTS WITH TORQUE LIMITERS WITH ANTI-SEIZE PRIOR TO INSTALLATION.
 3. SEE SHEET 3 FOR PARTS LIST.



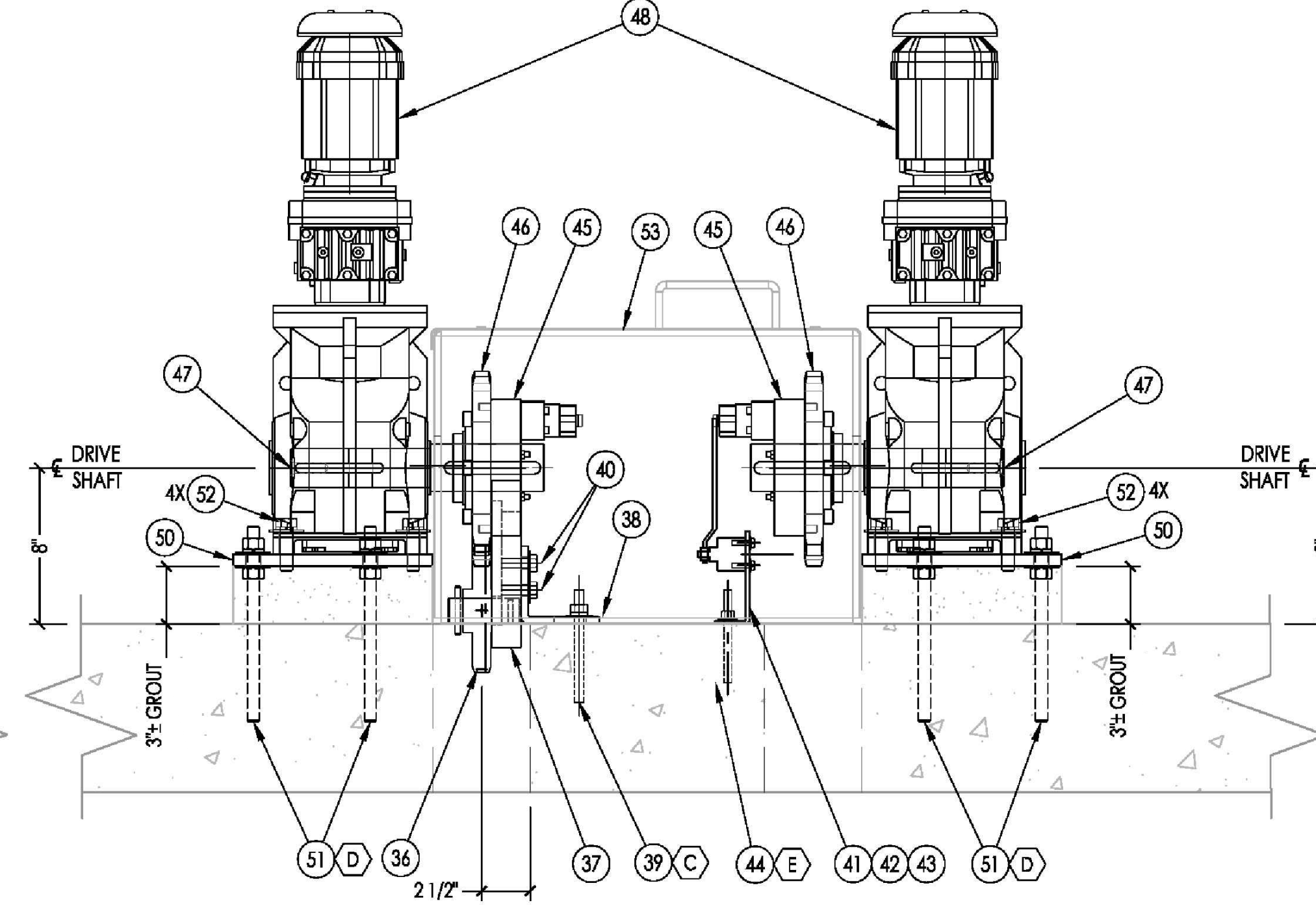
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INIT.	
REVISION	
MARK	
DATE	
	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 1 & 8 INSTALLATION AND LAYOUT DRIVE UNIT LAYOUT	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	19
	OF 21 SHEETS
	DRAWING FILE #
	WT 7093

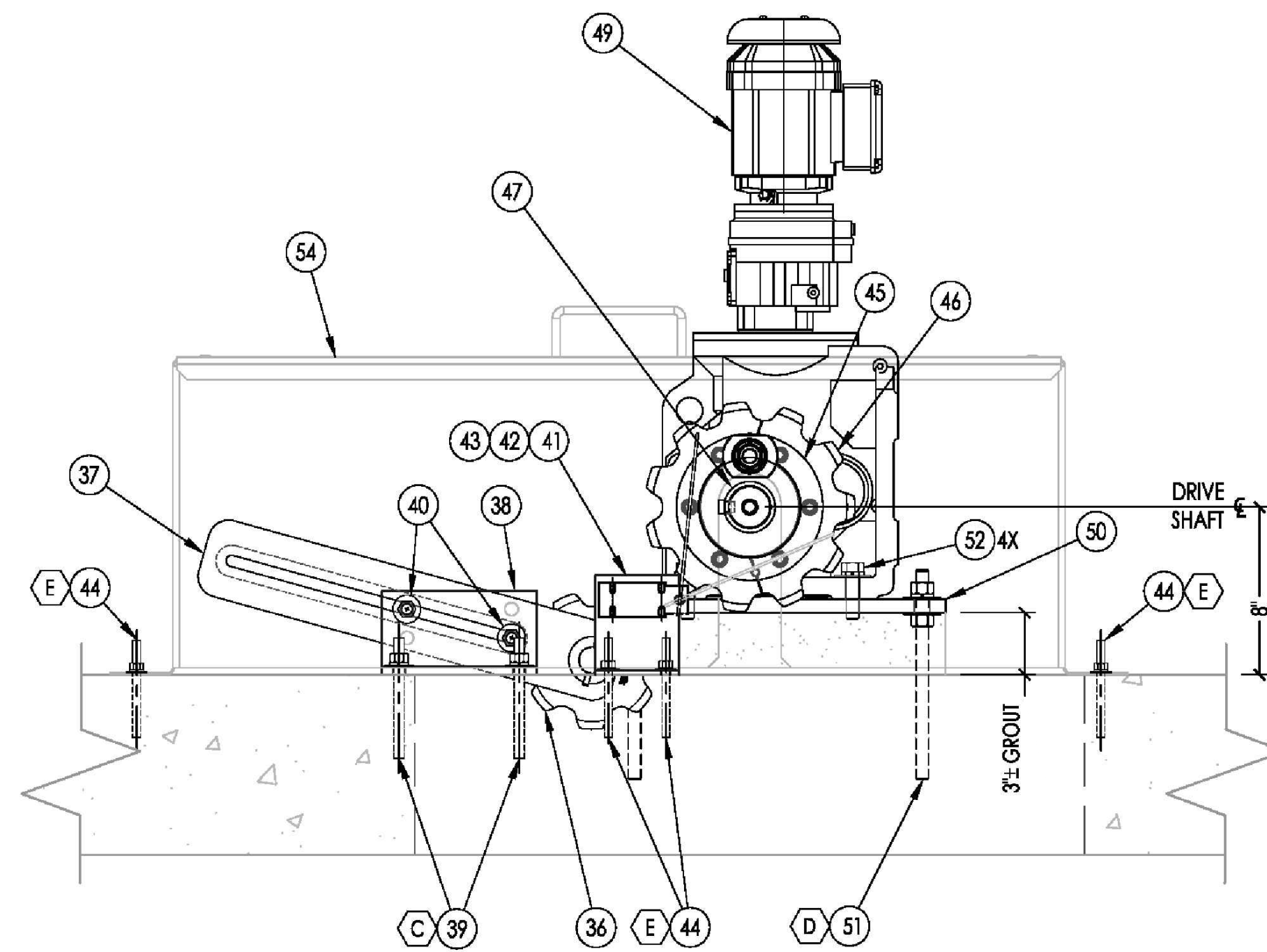
INSTALLATION NOTES
 1. LUBRICATE BEARING SLEEVE PRIOR TO SHAFT INSTALLATION.
 2. COAT INPUT OF SHAFT AT DRIVE UNIT AS WELL AS ALL CONTACT SPOTS WITH TORQUE LIMITERS WITH ANTI-SEIZE PRIOR TO INSTALLATION.
 3. SEE SHEET 3 FOR PART'S LIST.



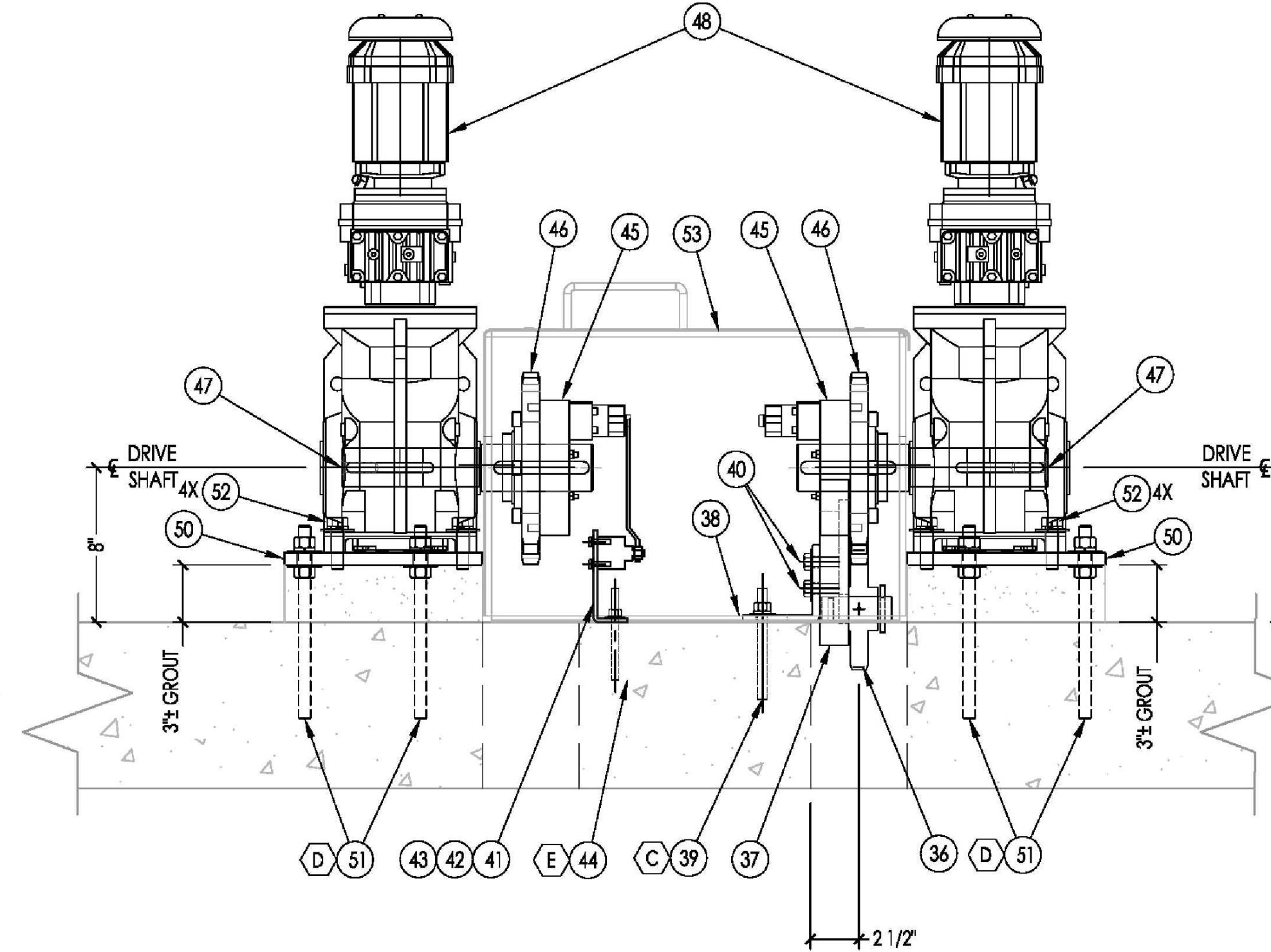
N-N BASIN 1
 13 SEE SHEET: -13 SCALE: NTS



P-P BASIN 1
 13 SEE SHEET: -13 SCALE: NTS




S-S BASIN 1
 13 SEE SHEET: -13 SCALE: NTS

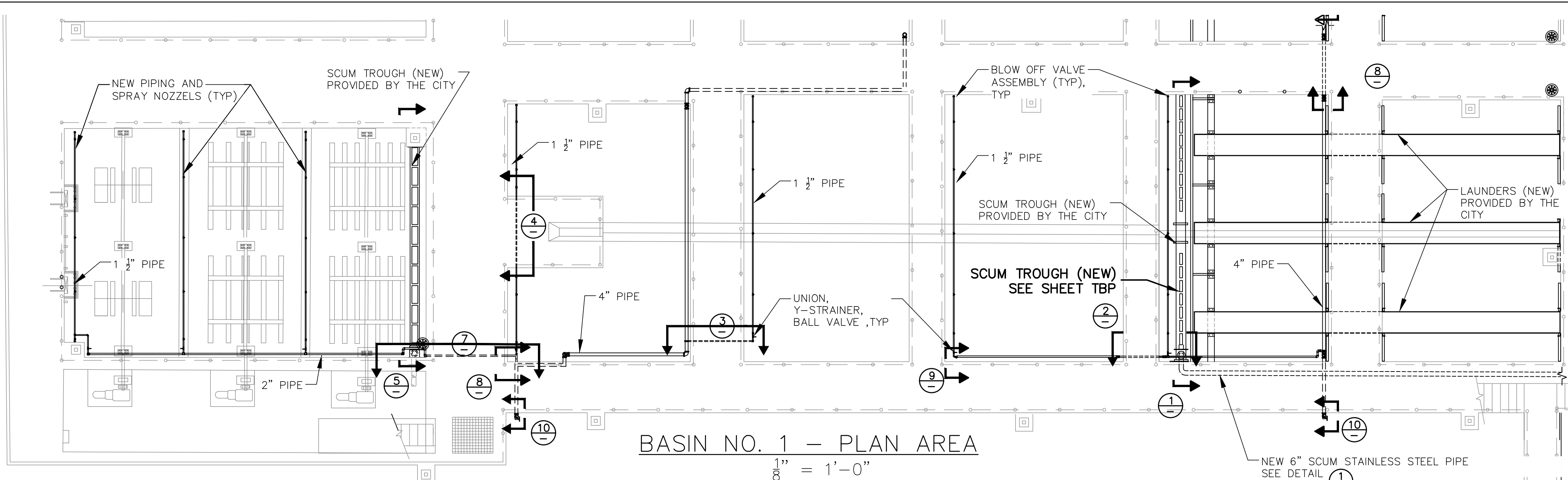


T-T BASIN 1
 13 SEE SHEET: -13 SCALE: NTS

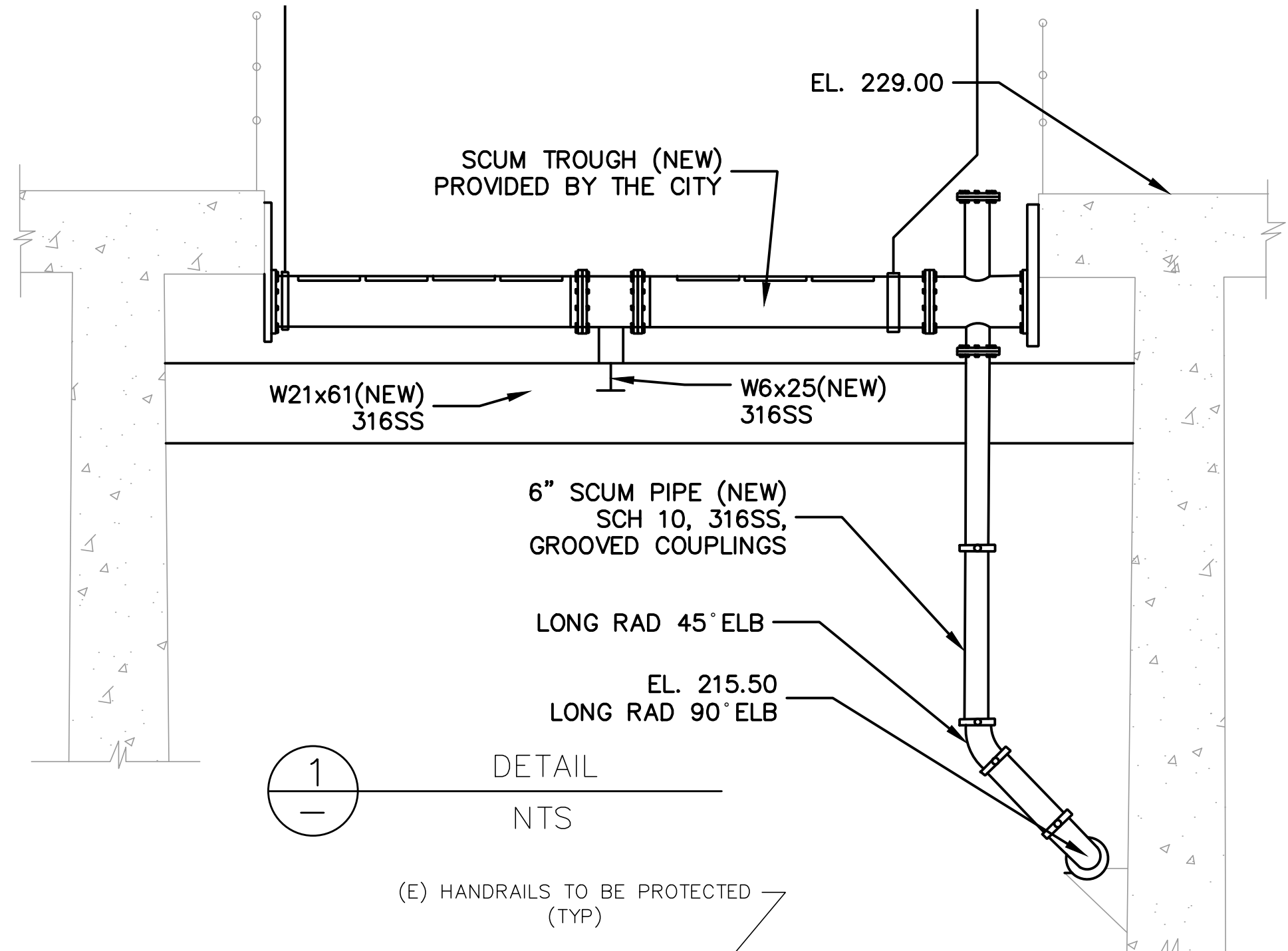
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INIT.	
REVISION	
MARK	
DATE	
	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED:  RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 SEDIMENTATION BASINS 1 & 8 INSTALLATION AND LAYOUT DRIVE UNIT LAYOUT - BASINS 1 & 8	
CITY PROJECT #	WT 7093
DESIGN BY	J JACKSON
DRAWN BY	R. ZAMBRANA
CHECKED BY	M. SOKOL R. WILSON
DATE	02/12/18
SCALE	AS SHOWN
SHEET	20
	OF 21 SHEETS
	DRAWING FILE #
	WT 7093

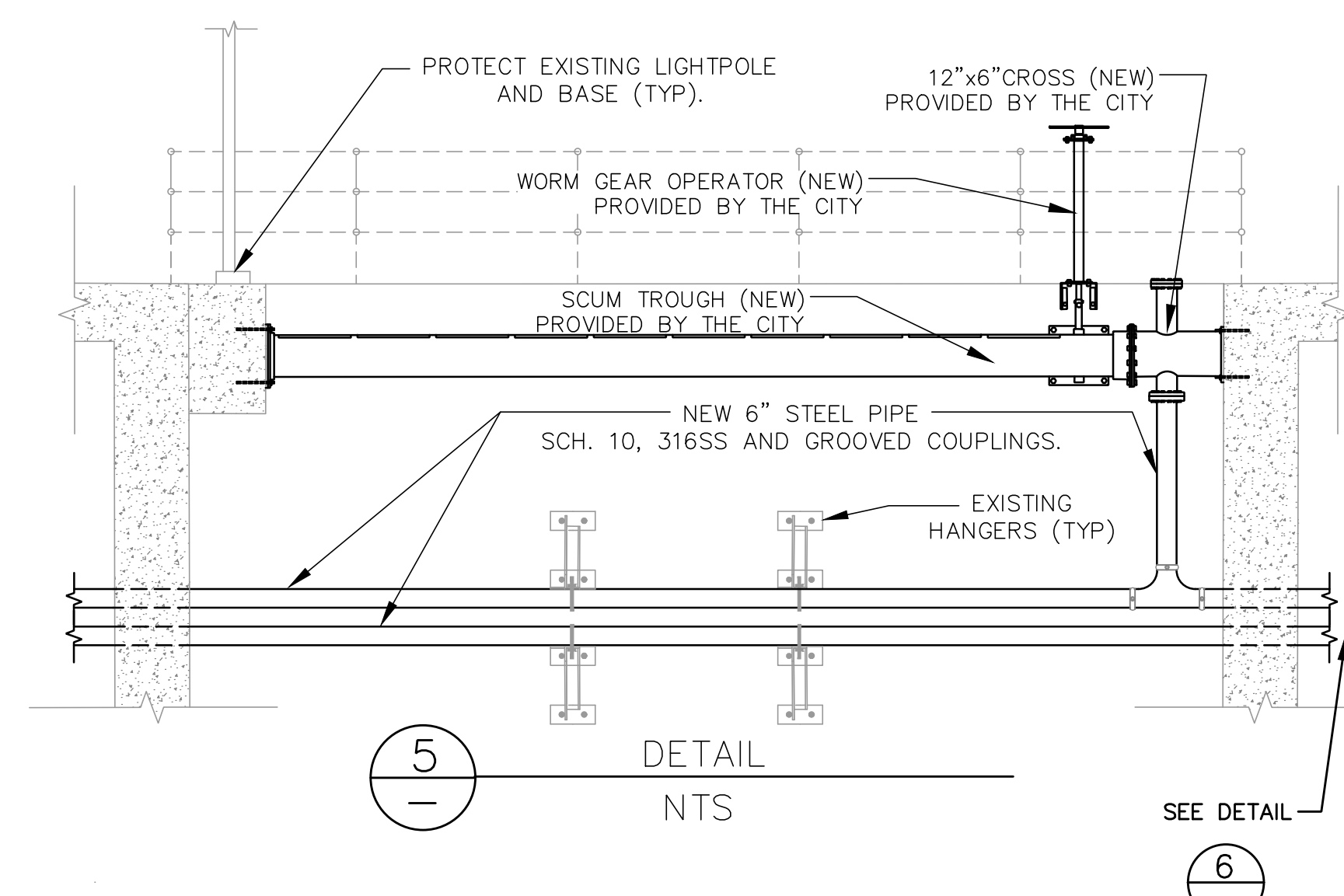
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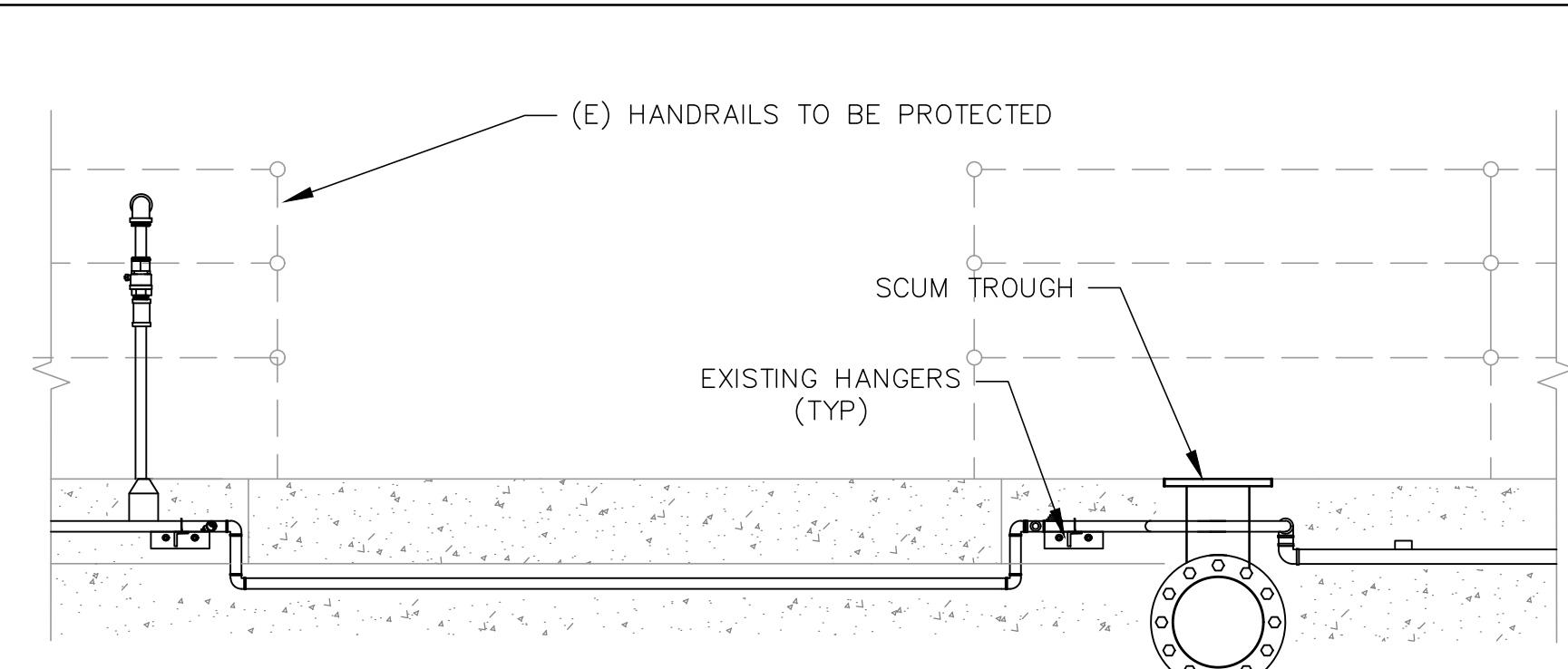
BASIN NO. 1 - PLAN AREA
1/8" = 1'-0"



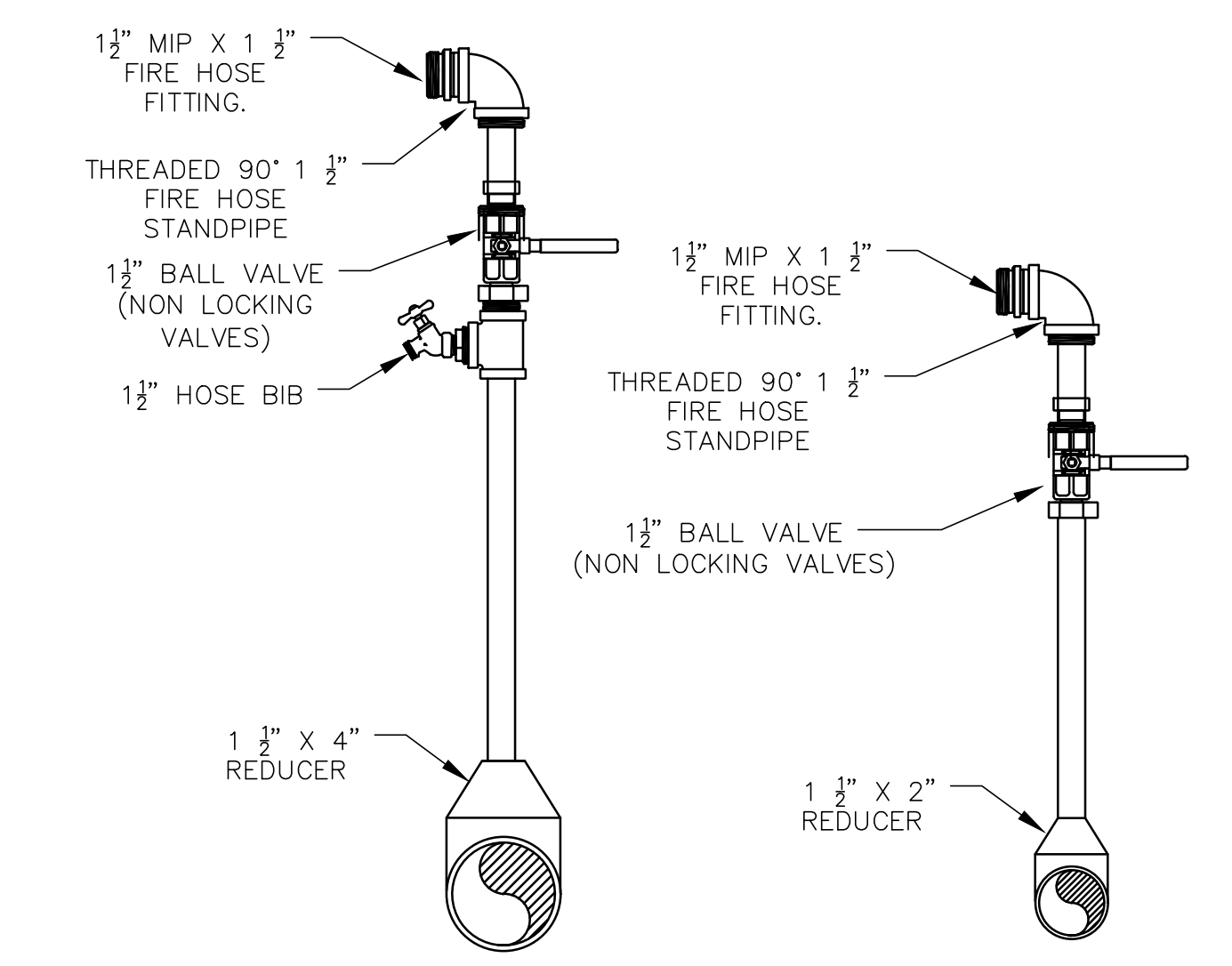
1 DETAIL
NTS



5 DETAIL
NTS

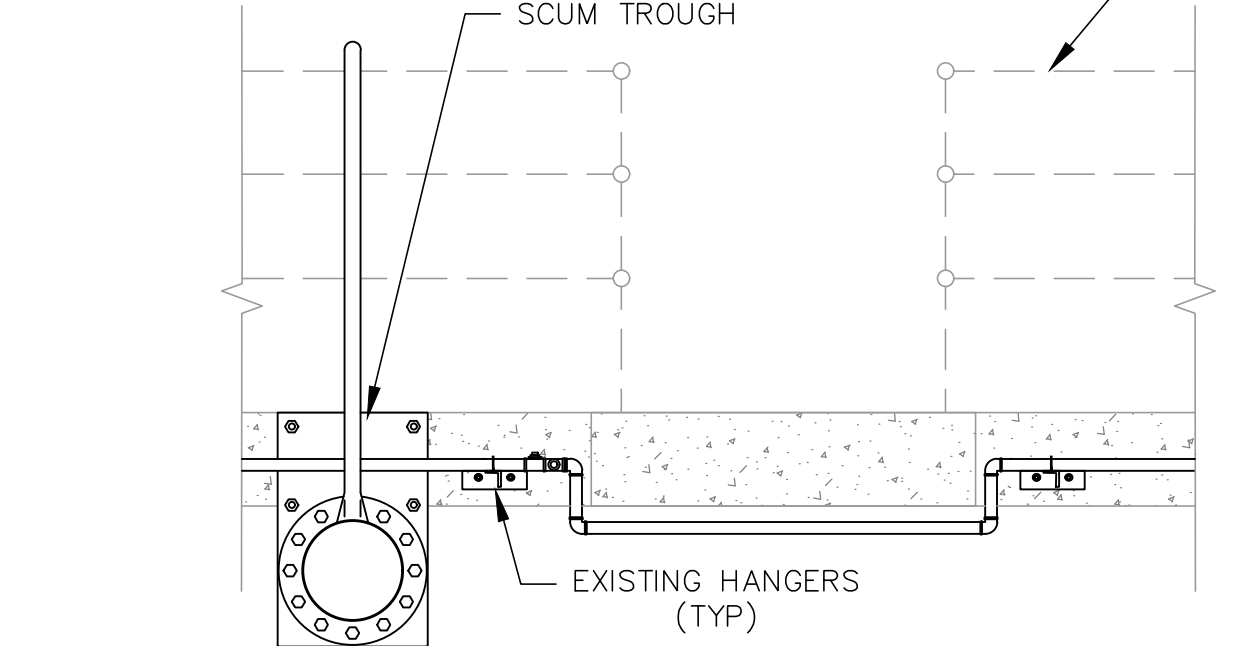


7 DETAIL - 1 1/2\"/>

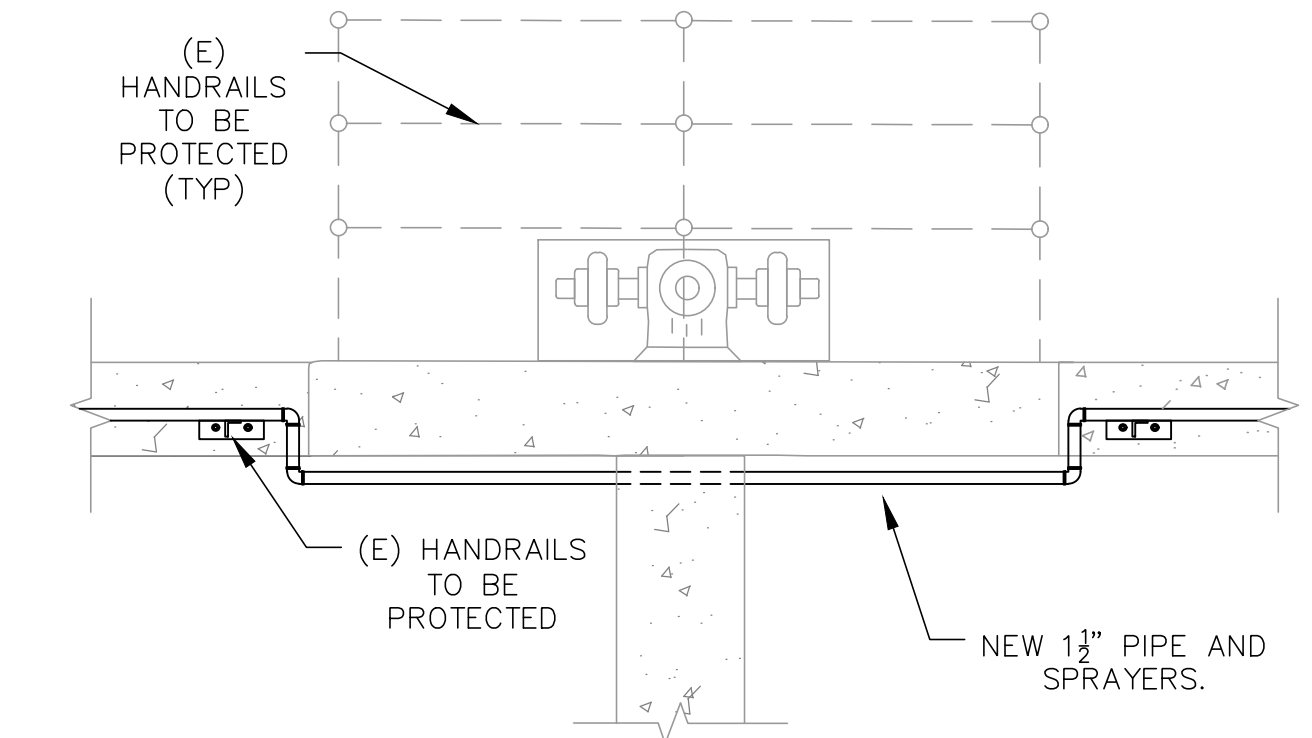


8 NEW 1 1/2\"/>

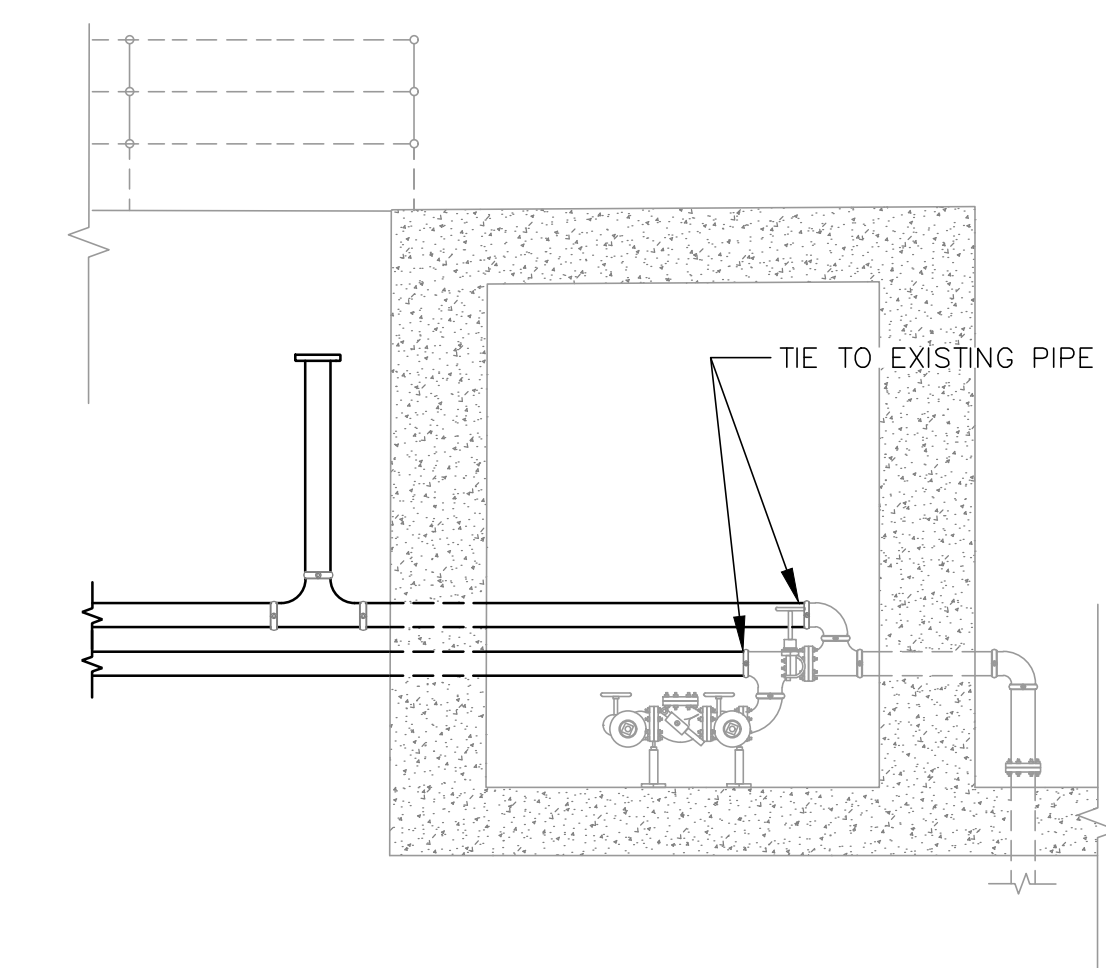
9 NEW 1 1/2\"/>



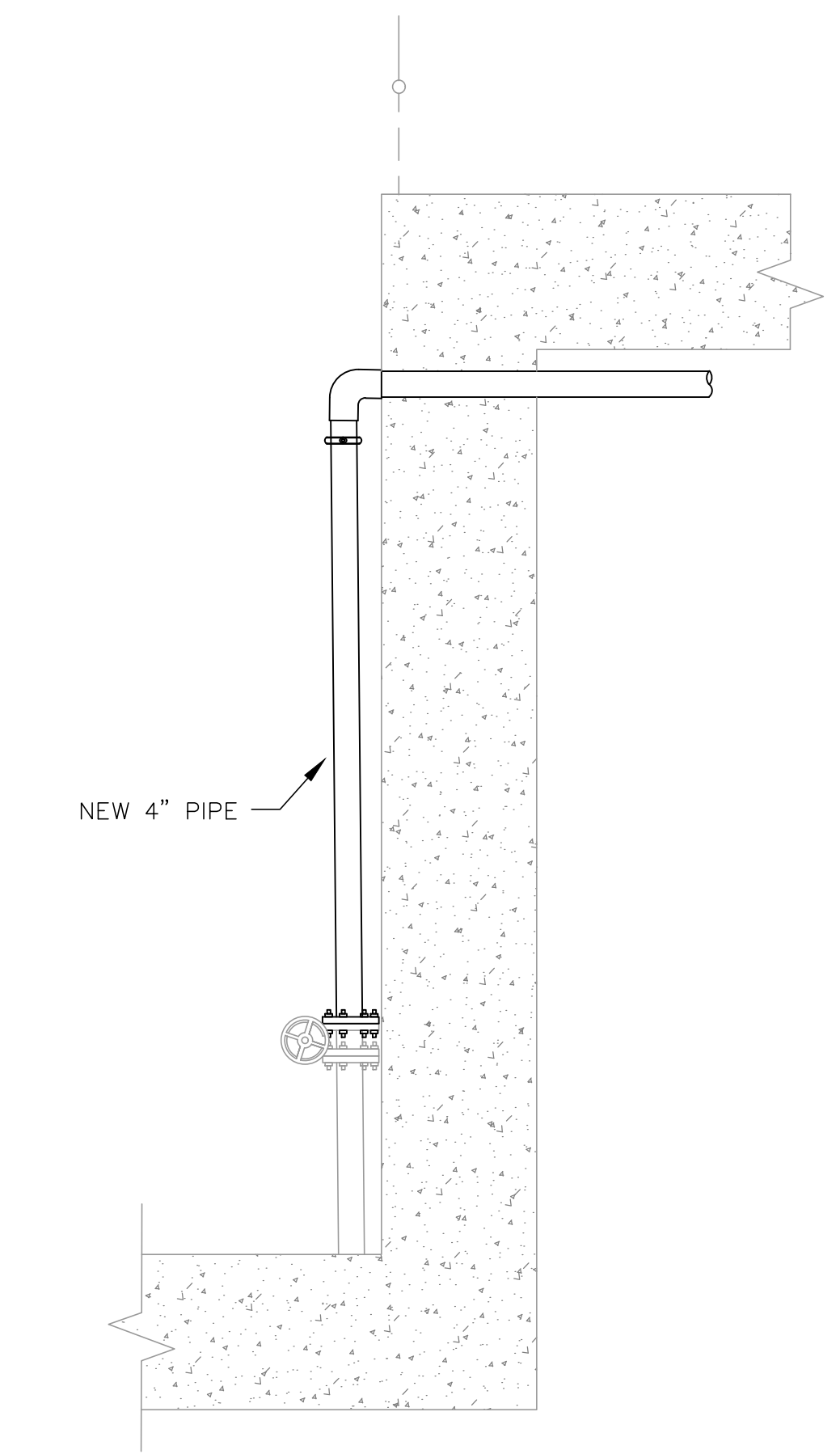
2 DETAIL - 1 1/2\"/>



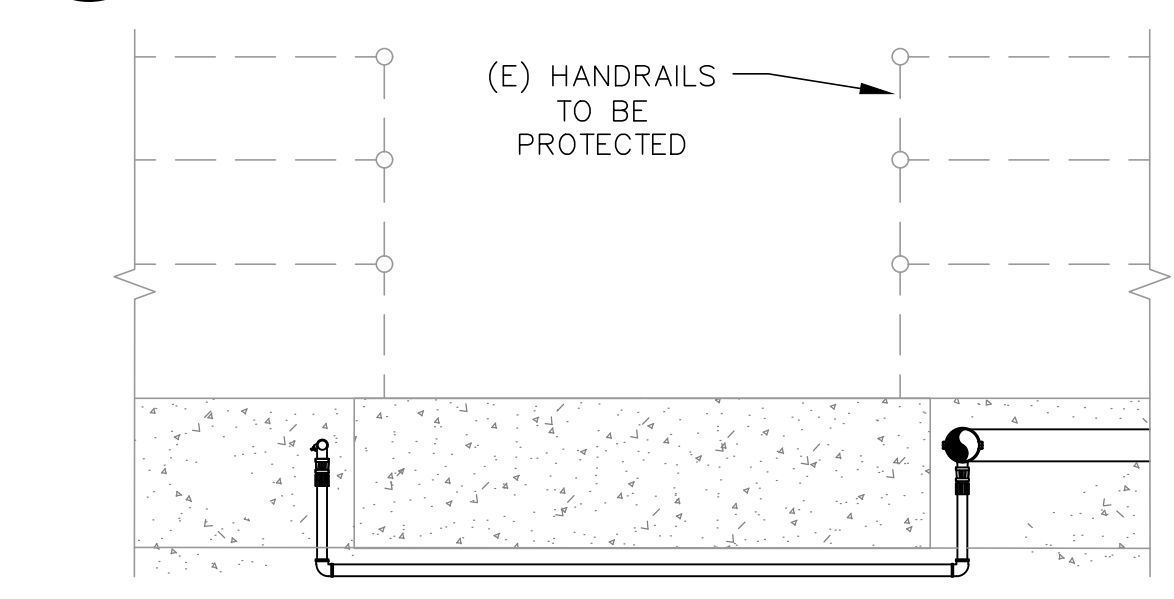
4 DETAIL - 1 1/2\"/>



6 DETAIL
NTS



10 DETAIL - 4\"/>



3 DETAIL - 1 1/2\"/>

INIT.	
REVISION	
MARK	
DATE	
CITY OF VALLEJO WATER DEPARTMENT	
APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
FLEMING HILL WATER TREATMENT PLANT FLOCCULATION AND SEDIMENTATION BASINS 1 & 8 - EQUIPMENT UPGRADE PROJECT WT 7093 BASINS 1 & 8 INSTALLATION AND LAYOUT PIPING, SCUM TROUGHS AND OTHER MISCELLANEOUS EQUIPMENT	
CITY PROJECT # WT 7093 DESIGN BY J JACKSON DRAWN BY R. ZAMBRANA CHECKED BY M. SOKOL R. WILSON DATE 02/12/18 SCALE AS SHOWN SHEET	
21 OF 21 SHEETS DRAWING FILE # WT 7093	