LA-MSID SOUTHWEST LEHIGH WEIRS PROJECT (A.B.S.O.R.B.)

OWNER
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

601 East County Lane

Lehigh Acres, FL 33936

Phone:

(239) 368-0044

Fax:

(239) 368-5412 mcook@la-msid.com

BOARD OF COMMISSIONERS:

J. Nathan Stout
Kenneth K. Thompson
David Deetscreek
Michael J. Welch
Michael Bonacolta

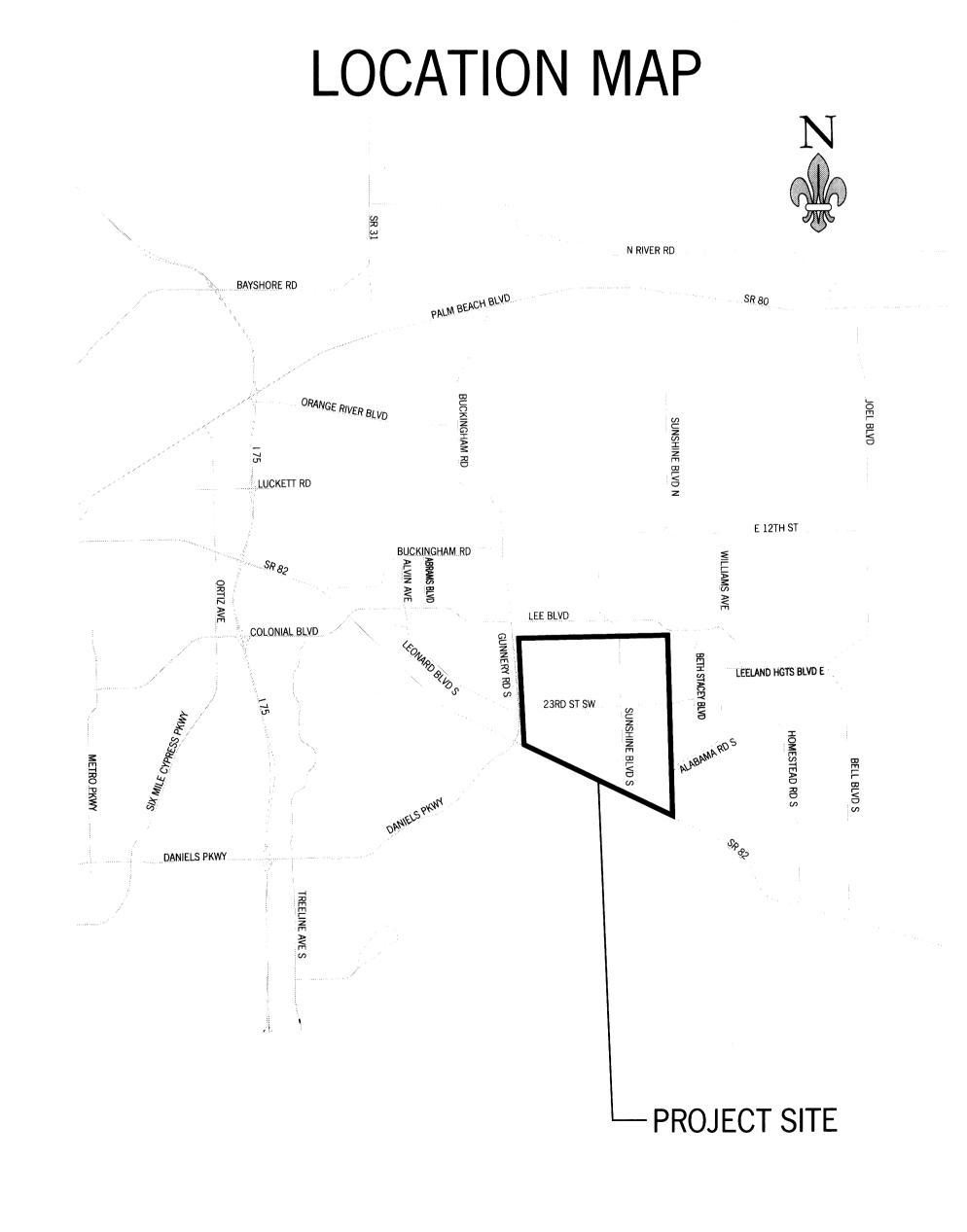
LA-MSID STAFF:

David E. Lindsay-Michael S. Cook -Kathryn O'Brien - District Manager
Assistant District Manager
Comptroller

UTILITY SERVICE PROVIDERS: POTABLE WATER & SANITARY SEWER **GARBAGE COLLECTION:** FLORIDA GOVERNMENTAL UTILITIES AUTHORITY WASTE MANAGEMENT 1229 HOMESTEAD ROAD NORTH 11990 STATE ROAD 82 LEHIGH ACRES, FLORIDA 33936 FT. MYERS, FL. 33913 PHONE (239) 368-0538 (239) 334-4115 1-866-302-1615 **UTILITY LOCATING SERVICE TELEPHONE:** SUNSHINE STATE ONE CALL CENTER PHONE (800) 432-4770 1500 DANIELS PKWY, #300 (MINIMUM 48 HOURS NOTICE REQUIRED) FT. MYERS, FL. 33912 (239) 590-0440 FIRE CONTROL DISTRICT: ELECTRIC: **LEHIGH ACRES FIRE RESCUE** 10 HOMESTEAD RD S LEE COUNTY ELECTRIC COOP LEHIGH ACRES, FL 33936 4980 BAYLINE DR NORTH FT. MYERS, FL 33917

CALL BEFORE YOU DIG:

SUNSHINE STATE ONE CALL CENTER PHONE: (800) 432-4770 (MINIMUM 48 HOURS NOTICE REQUIRED) Aquifer Benefit and Storage for Orange River Basin LEHIGH ACRES, FLORIDA



1	MASTER SITE PLAN
2	MASTER SITE AERIAL
3,4	STRUCTURE 1 (BLOWFISH CANAL)
5,6	STRUCTURE 2 (GERNARD CANAL)
7,8	STRUCTURE 3 (LAMPRY CANAL)
9,10	STRUCTURE 4 (LADYFISH CANAL)
11,12	STRUCTURE 5 (BLOWFISH CANAL)
13,14	STRUCTURE 6 (BUTTERFLY CANAL)
15,16	STRUCTURE 7 (SARDINE CANAL)
17,18	STRUCTURE 8 (WARMOUTH CANAL)
19, 20	STRUCTURE 9 (BUTTERFLY CANAL)
21,22	STRUCTURE 10 (FLOUNDER CANAL)
23,24	STRUCTURE 12 (HERRING CANAL)
25, 26	STRUCTURE 13 (POMPANO CANAL)
27,28	STRUCTURE 14 (BUTTERFLY CANAL)
29,30	STRUCTURE 15 (OCTOPUS CANAL)
31,32	STRUCTURE 16 (BUTTERFLY CANAL)
33,34	STRUCTURE 17 (BUTTERFLY CANAL)
35,36	STRUCTURE 18 (FLOUNDER CANAL)
37,38	STRUCTURE 19 (HADDOCK CANAL)
39,40	STRUCTURE 20 (JEWEL CANAL)
41,42	STRUCTURE 21 (CLAM CANAL)
43,44	STRUCTURE 22 (BLACKDRUM CANAL)
45,46	STRUCTURE 23 (BLACKDRUM CANAL)
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COVER

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RHT

CHECKED BY:
RHT

APPROVED BY:
RHT

DATE:
SEPT 2015

EHIGH WEIRS PROJECT (A.B.S.O.R.B.)

SW Basin Structures

H. Tkompson, P.E. # 46720

T. Engineeting, Inc.
319 Inman Street
chigh Acres, FL 33936
(239) 369-8900





SOUTHWEST LEHIGH WEIRS PROJECT (A.B.S.O.R.B.) MASTER SITE SW BASIN STRUCTURES

CLIENT: LEHIGH ACRES

LEHIGH ACRES

SHEET 1/56

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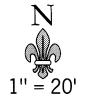
SHEET 2/56

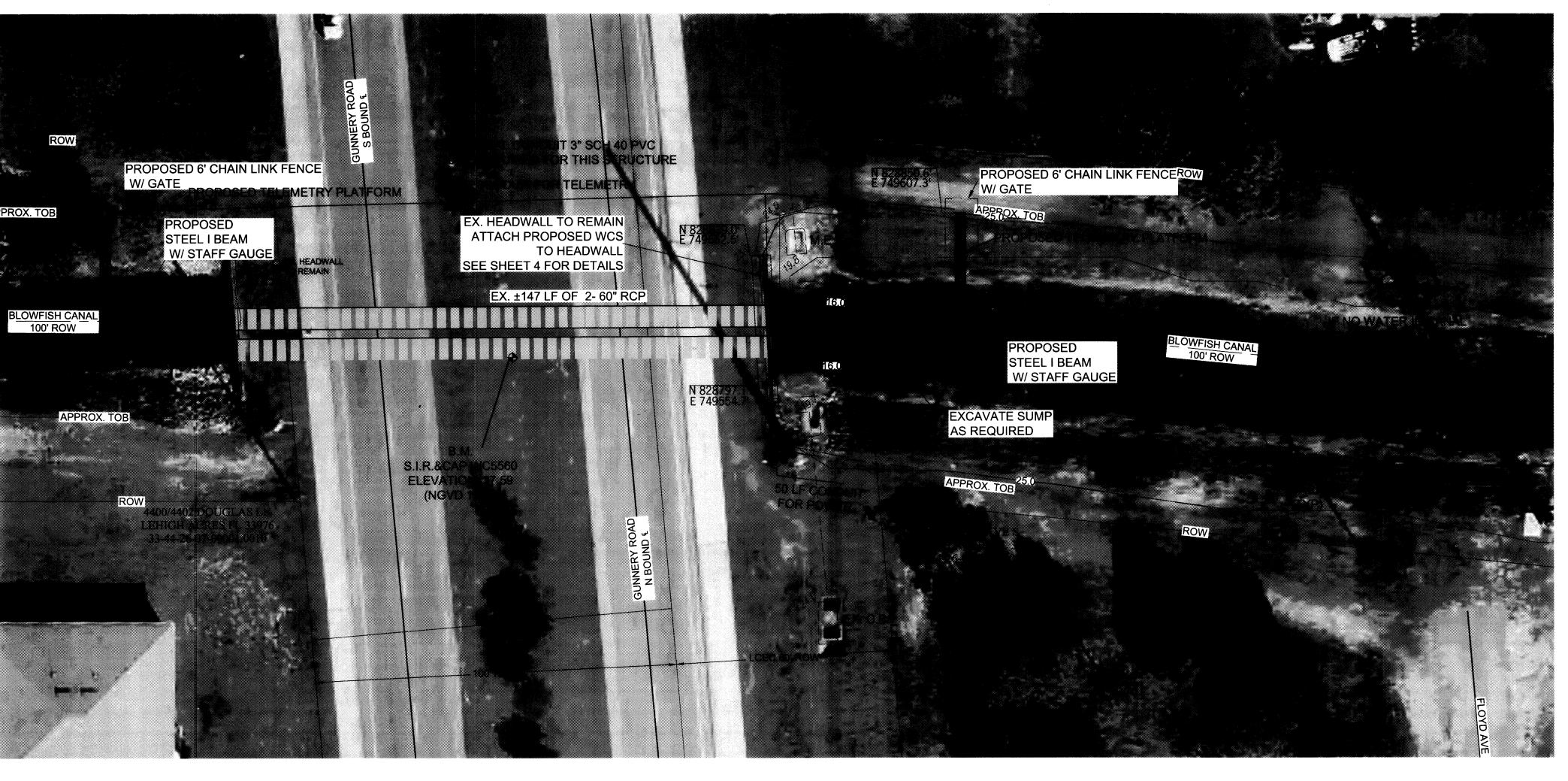
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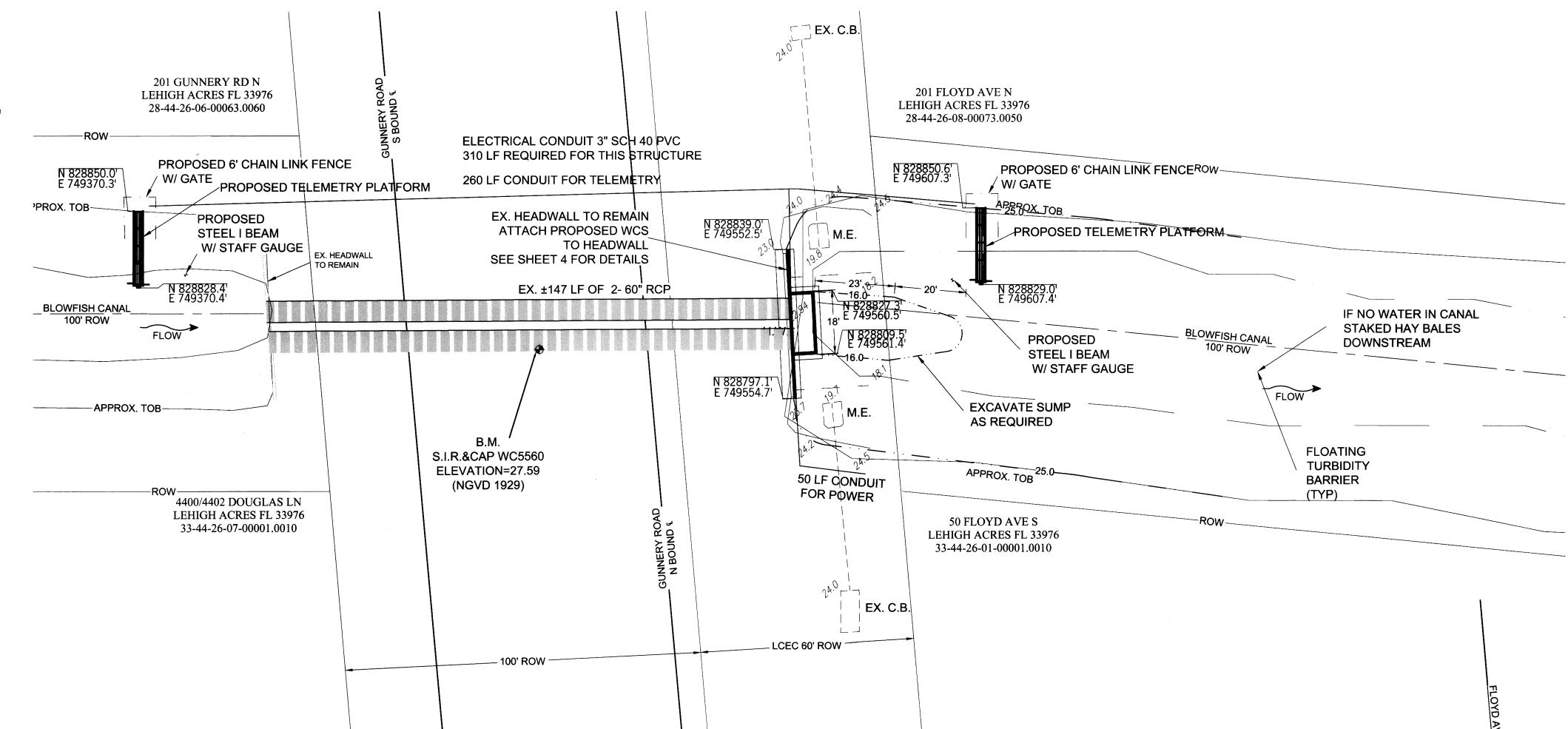
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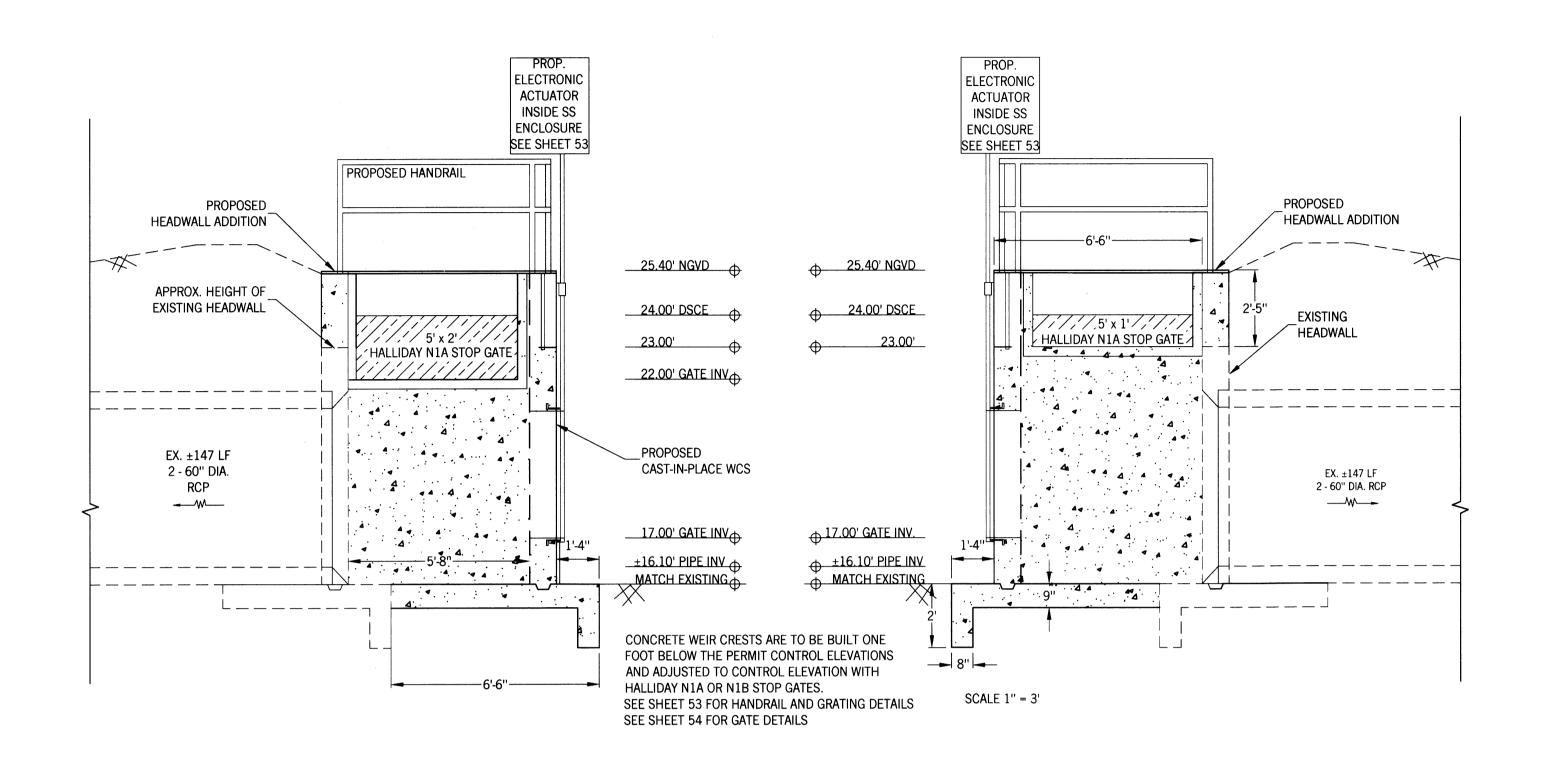


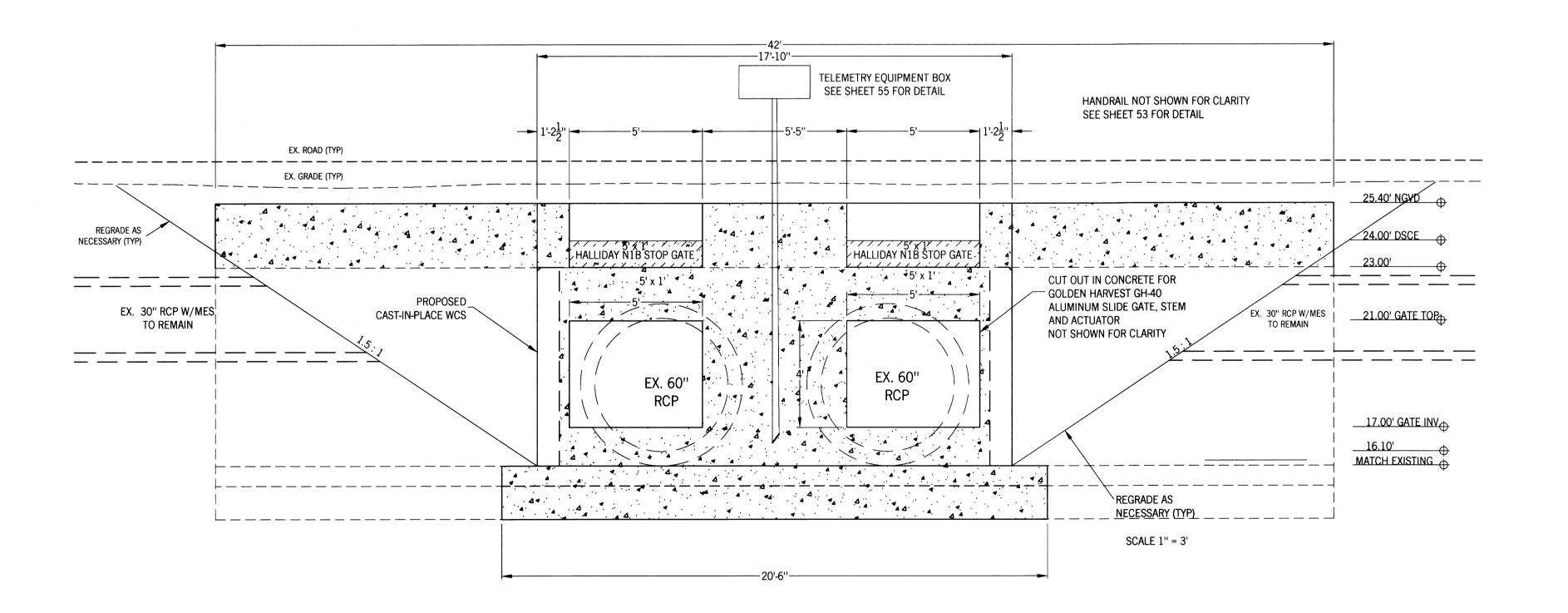


CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 RECLAMATION PROJECT AND PLAN VIEW AERIAL STORMWATER \leftarrow STRUCTURE : SOUTHWEST

SHEET 3/56

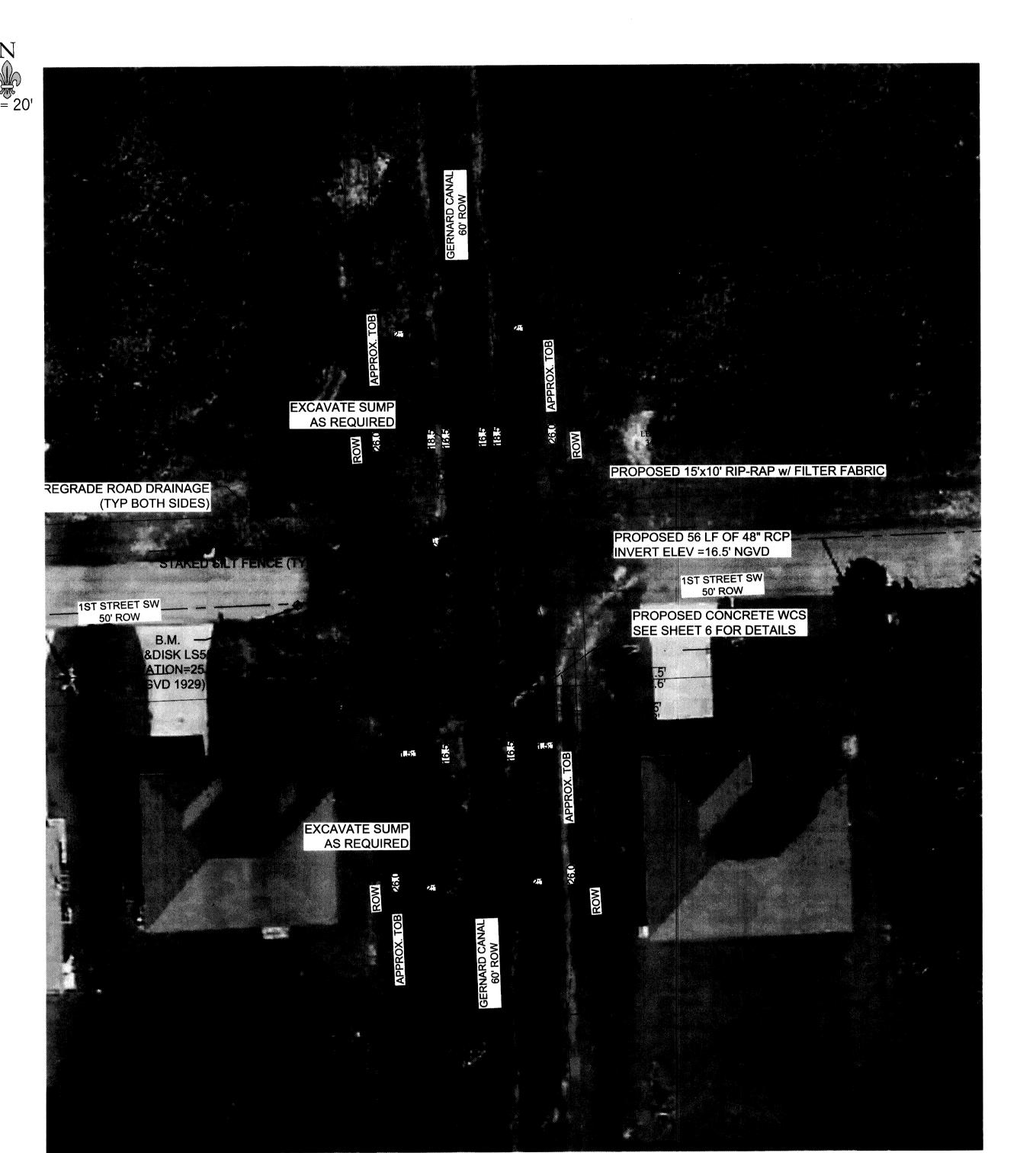
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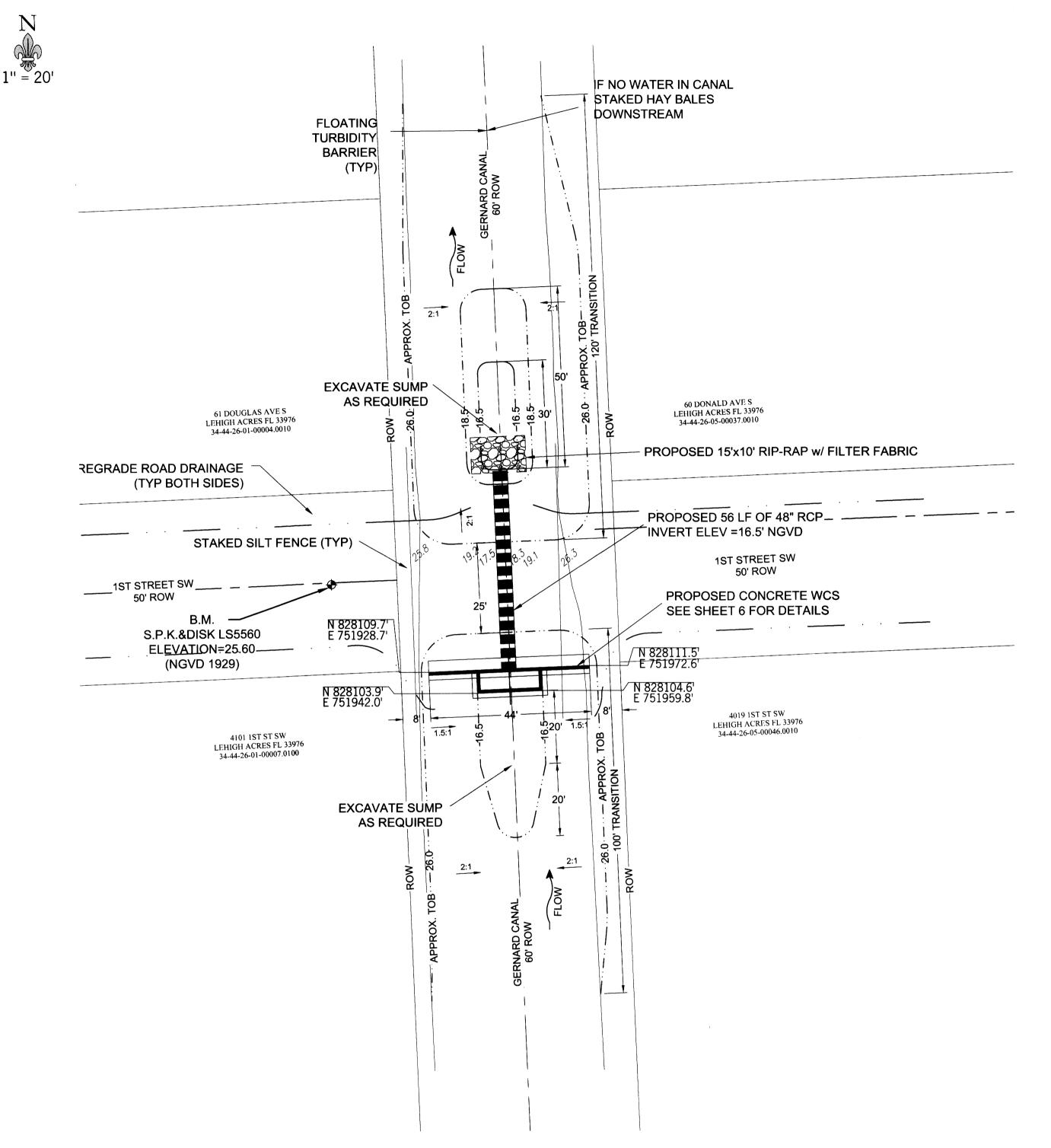




SOUTHWEST LEHIGH WEIRS PROJECT (A.B.S.O.R.B.) STRUCTURE 1 FRONT AND SIDE VIEWS CLIENT: LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT







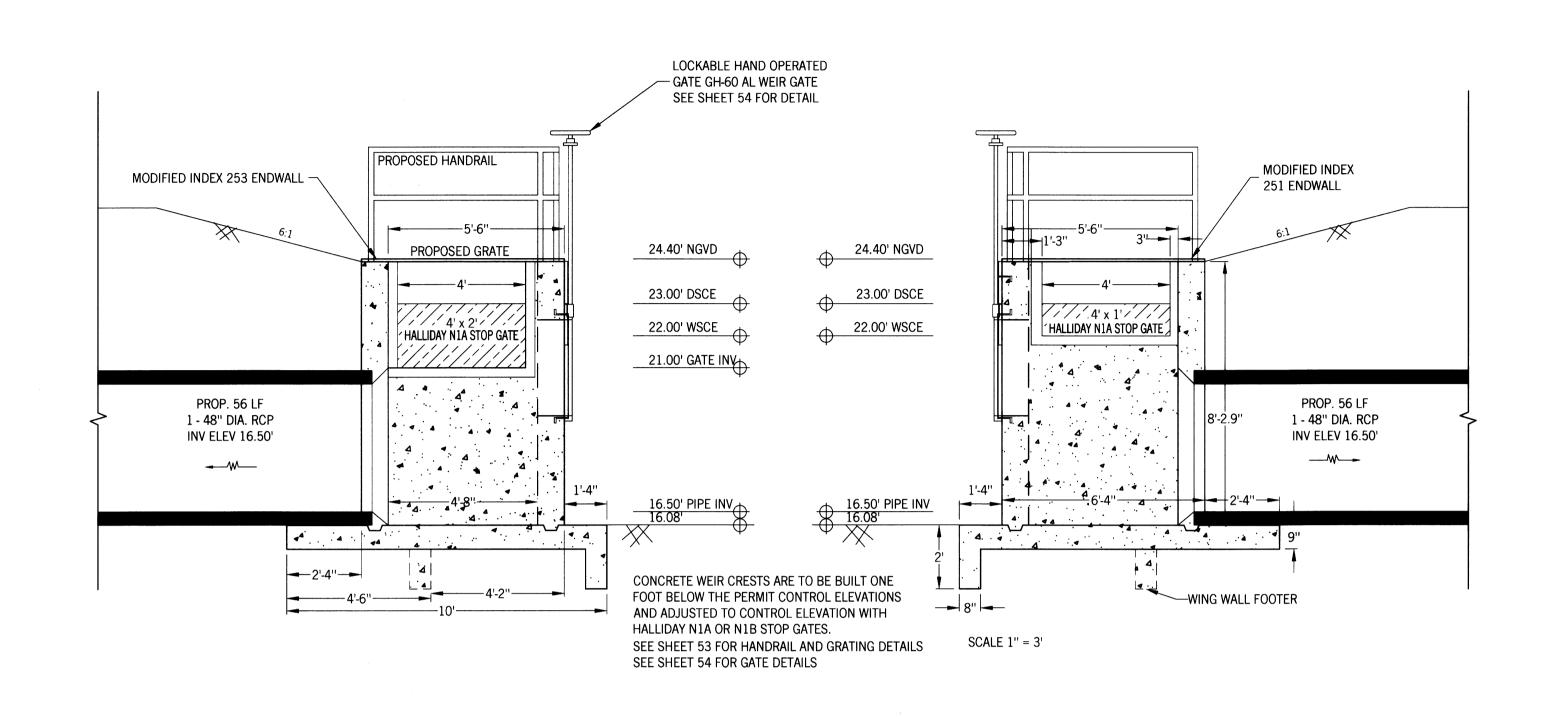
SHEET 5/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 (A.B.S.O.R.B.) PLAN VIEW **PROJECT** AND SOUTHWEST LEHIGH WEIRS STRUCTURE 2 AERIAL

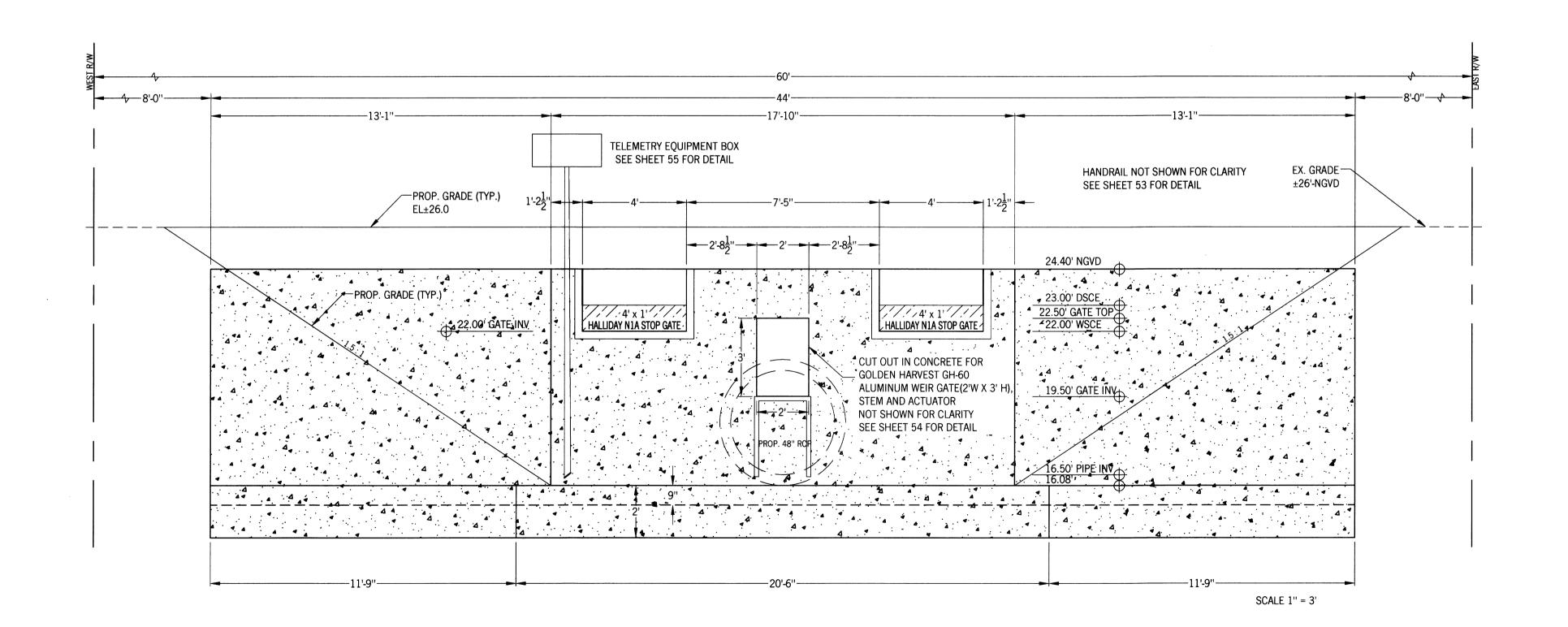
Richard H. Thompson, P.E. # 46720

R.H.T. Engineering, Inc.
319 Inman Street
Lehigh Acres, FL 33936
(239) 369-8900

Engineering Certificate of Authorization # 25852







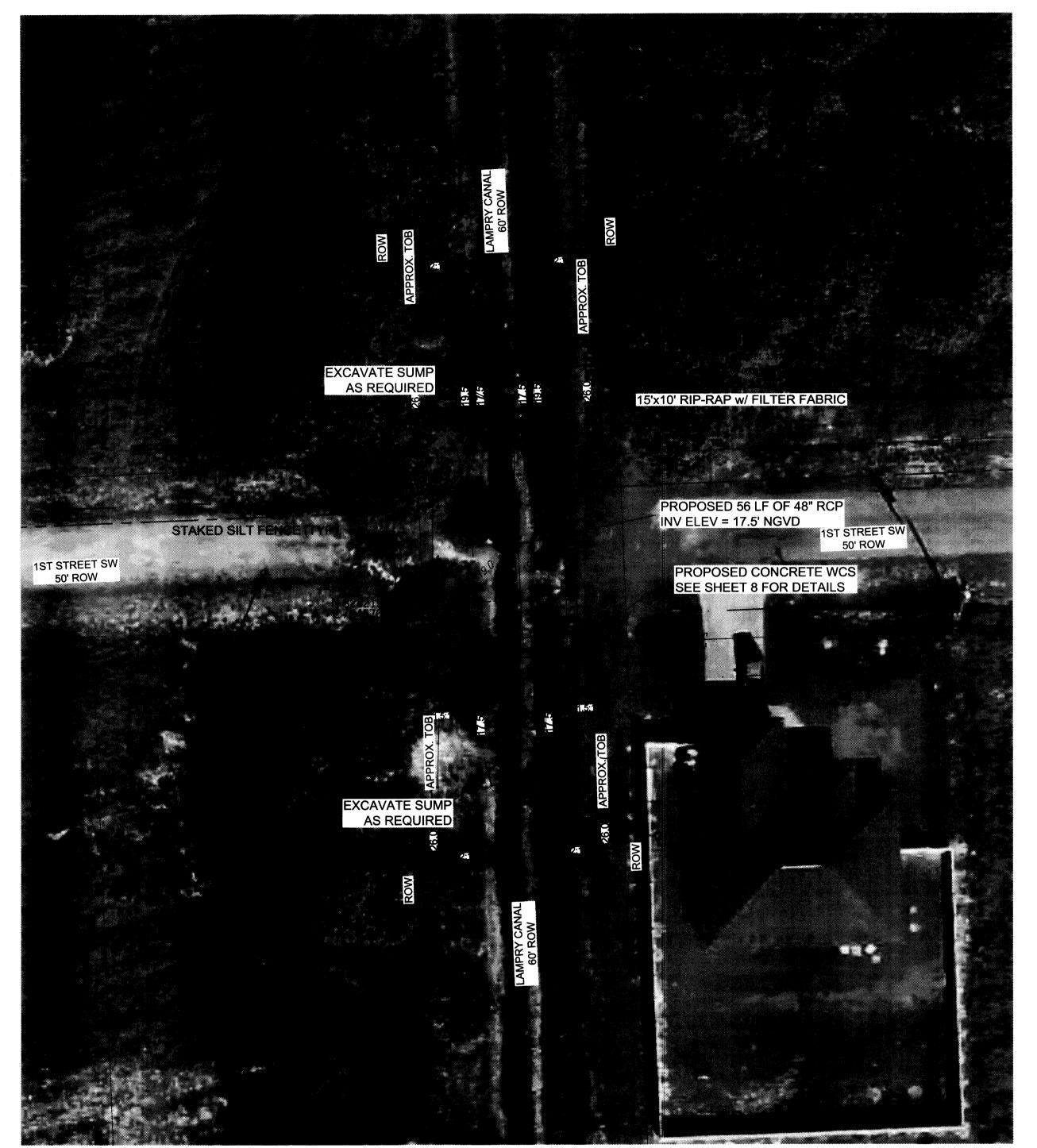
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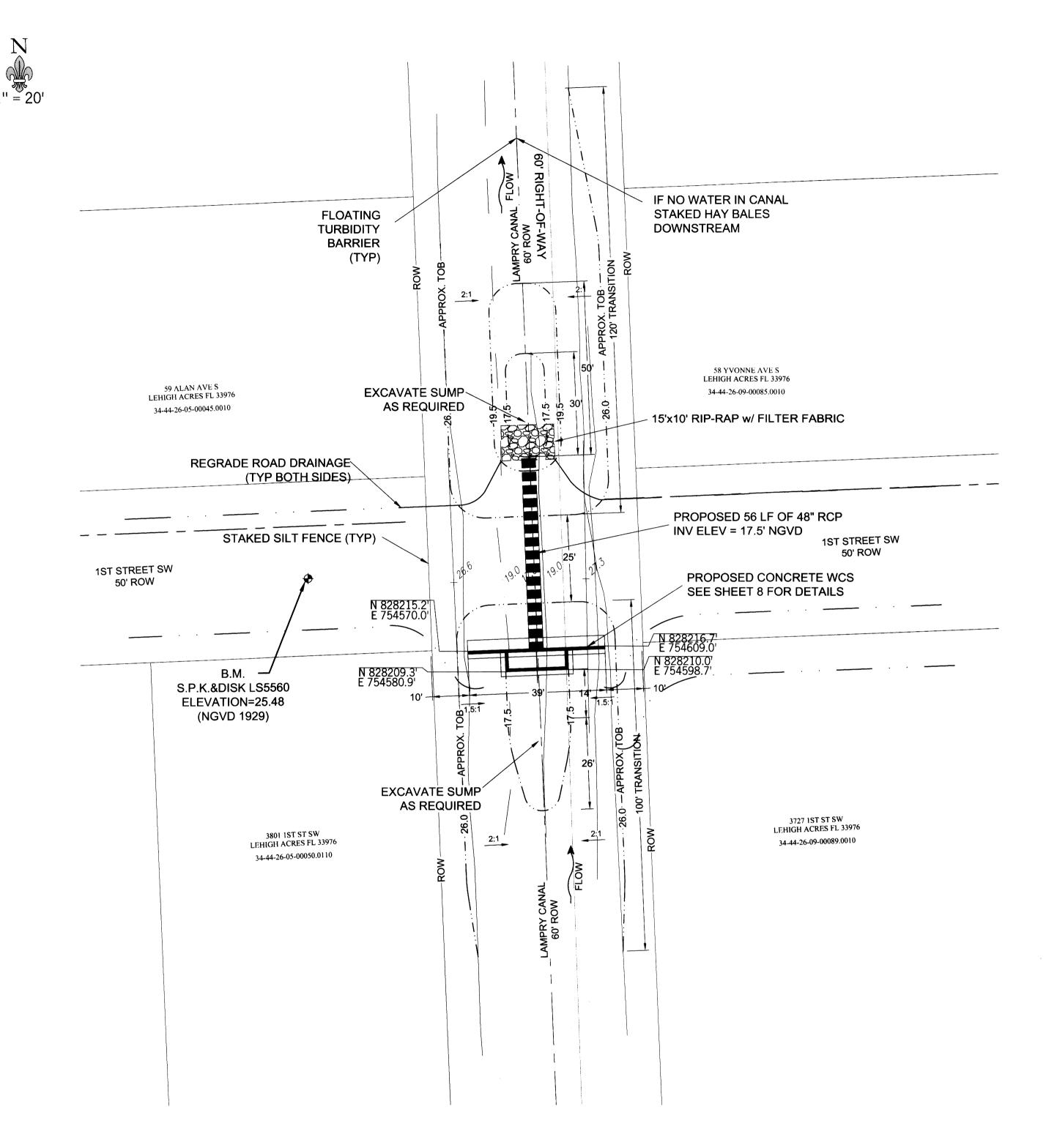
SHEET 6/56

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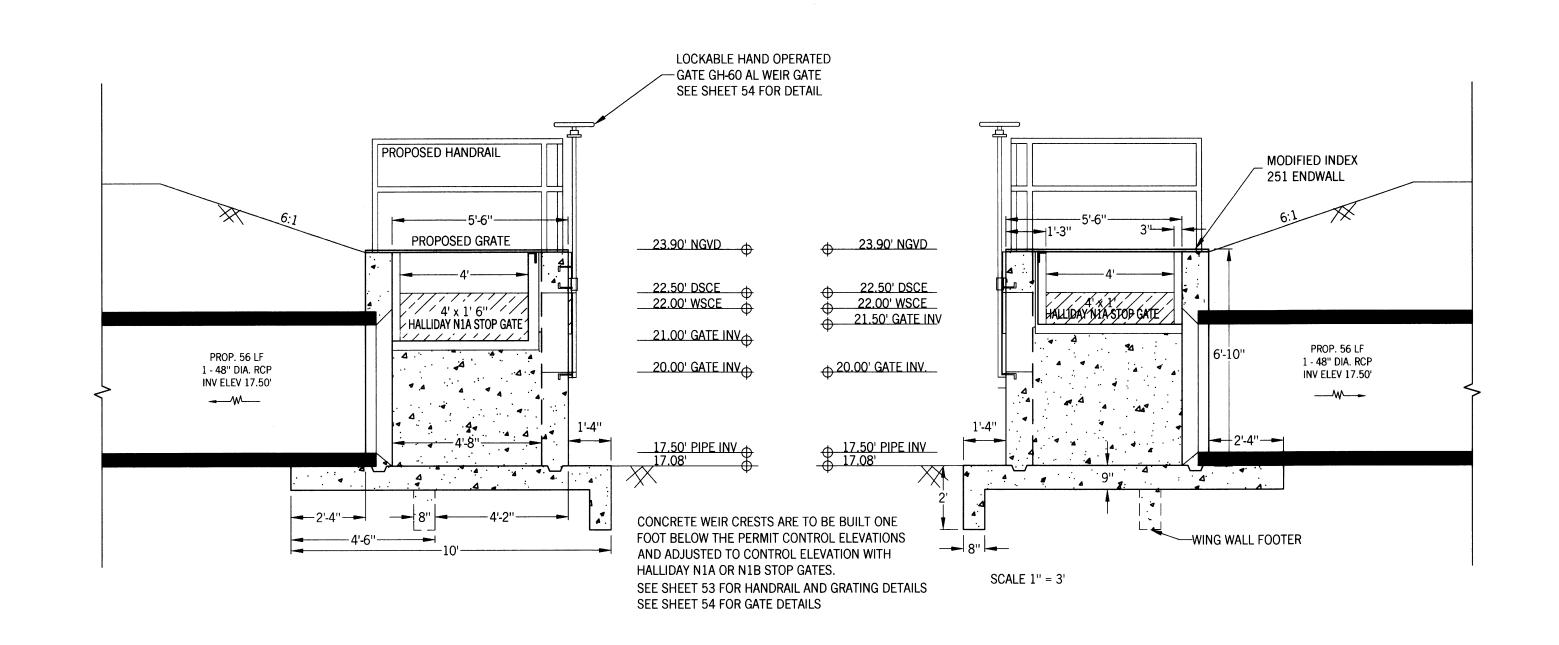
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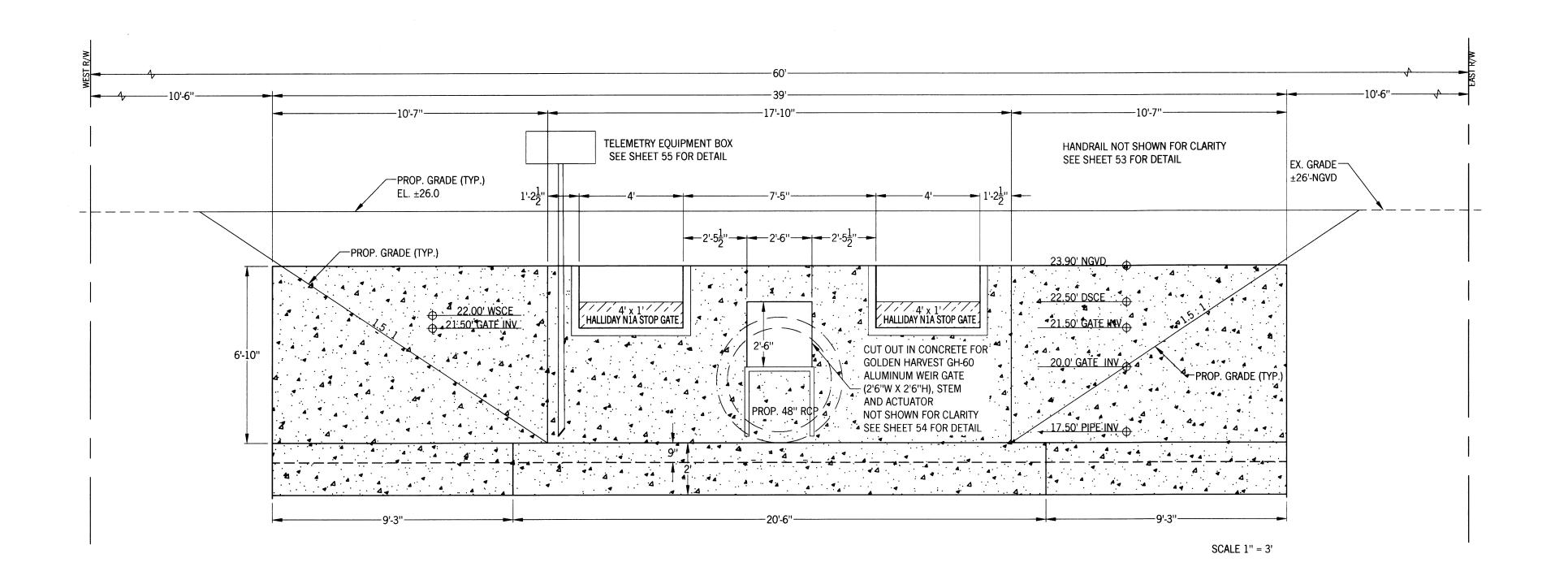
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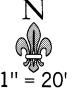


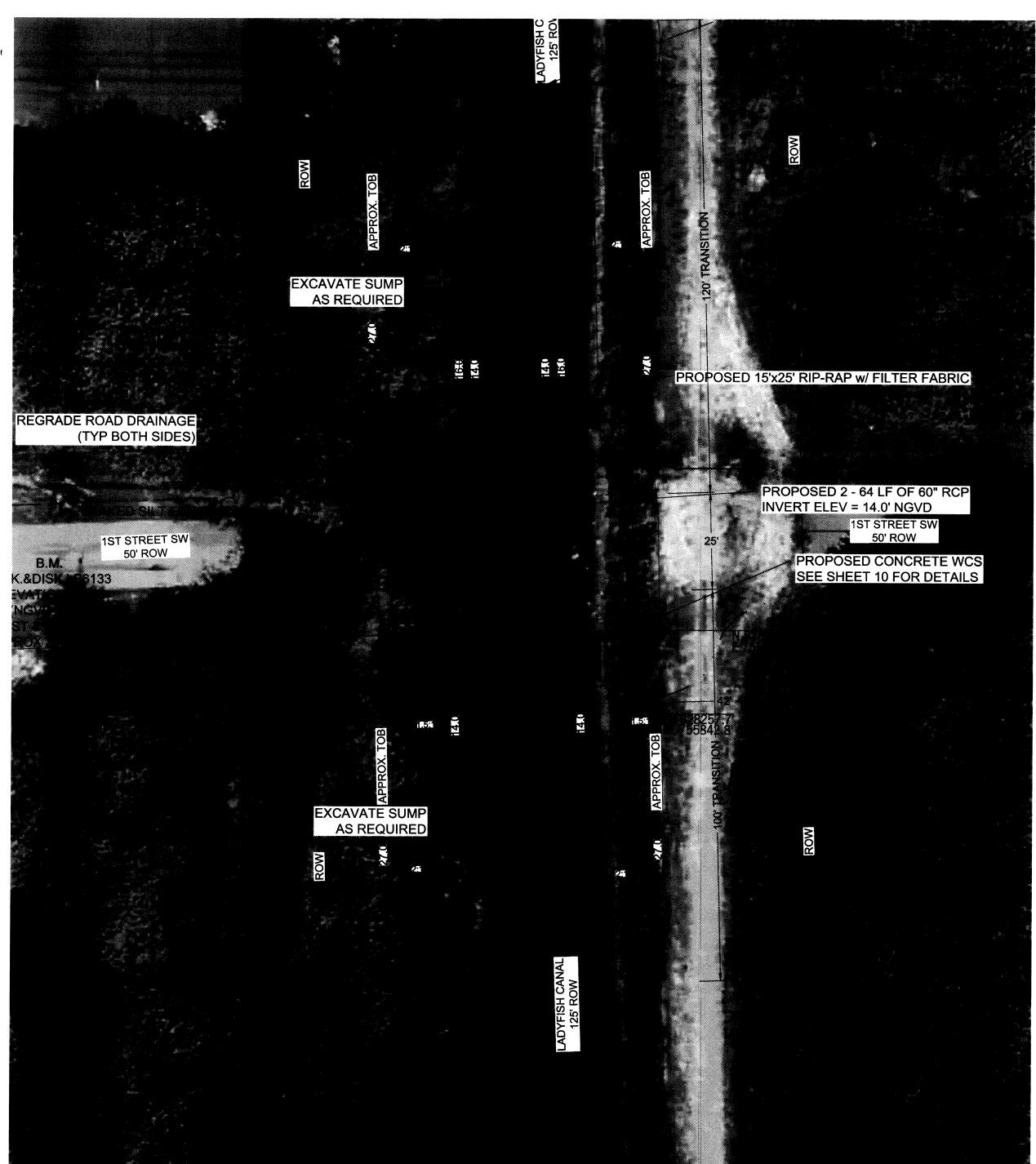


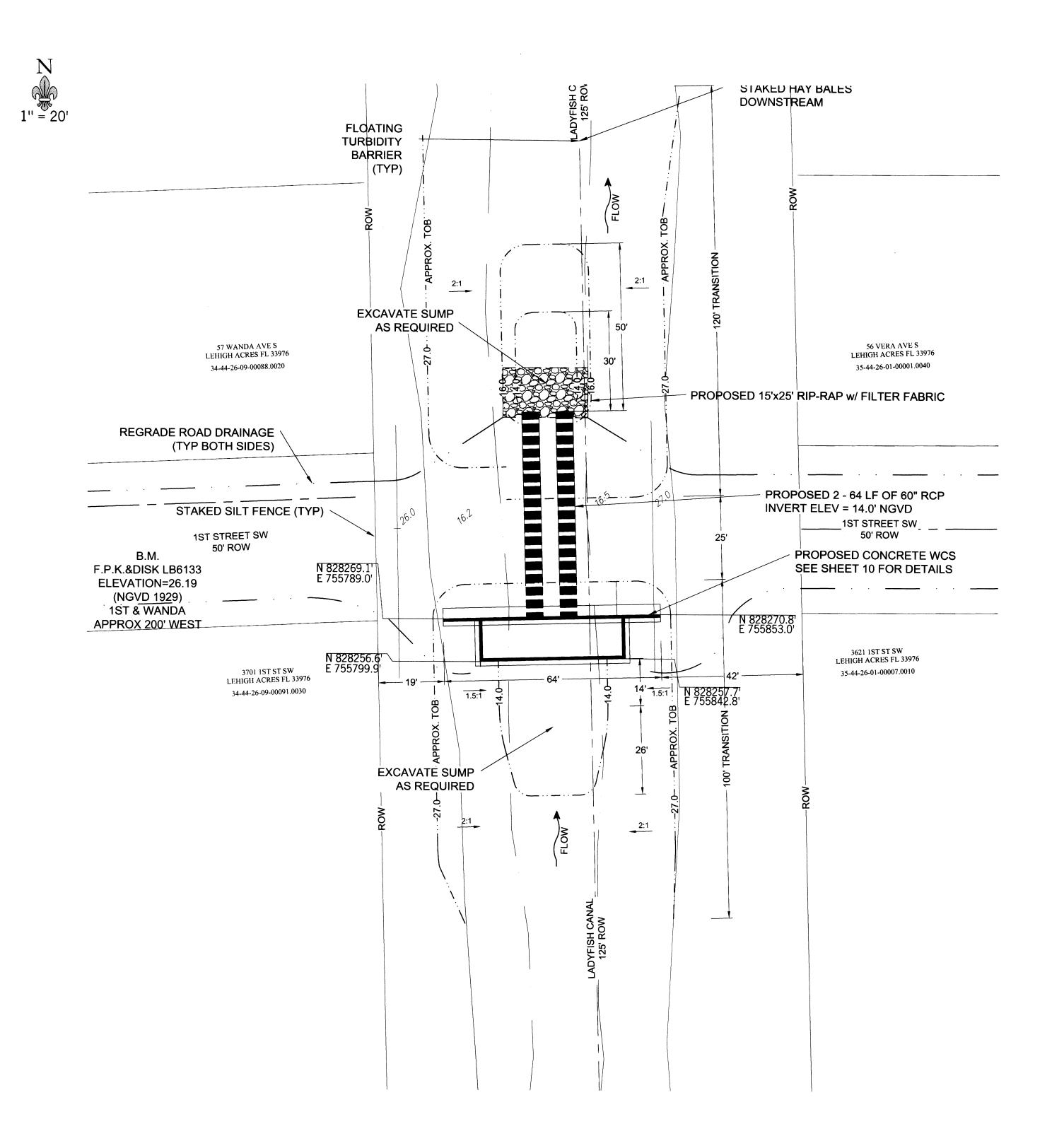


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SHEET 8/56





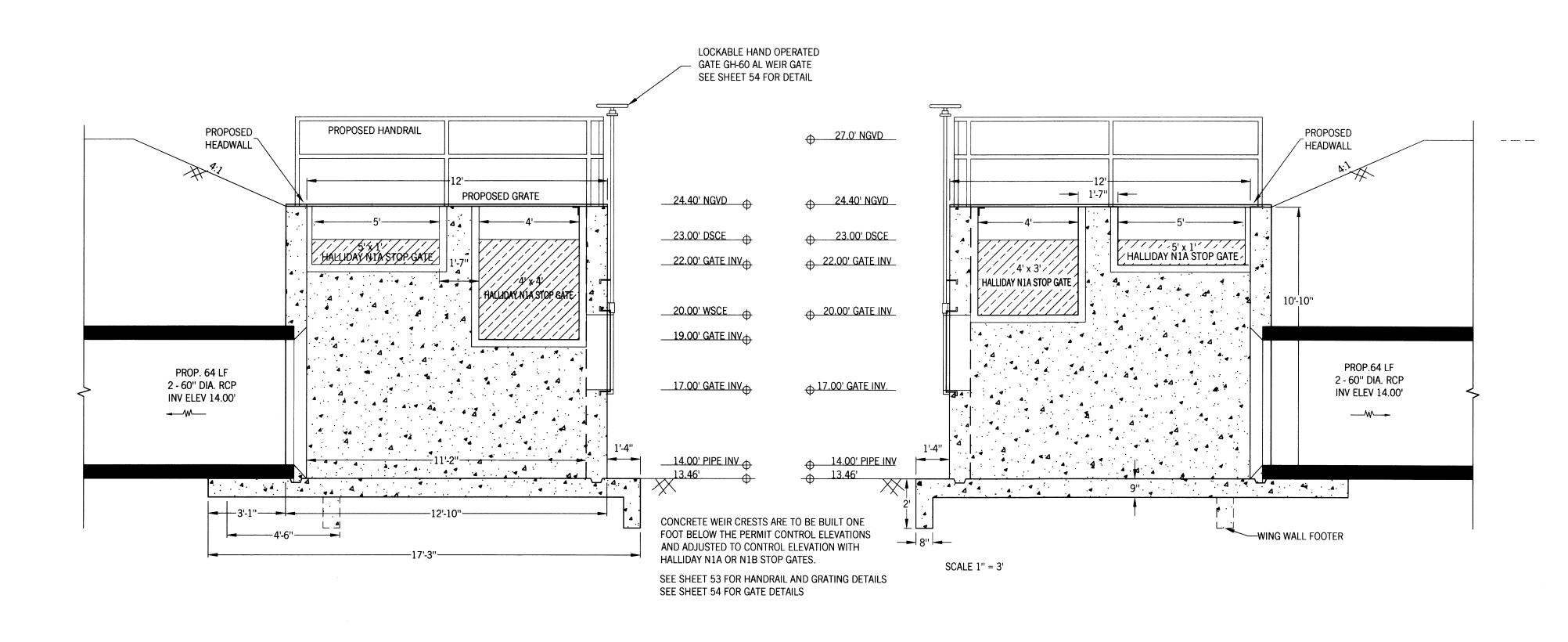


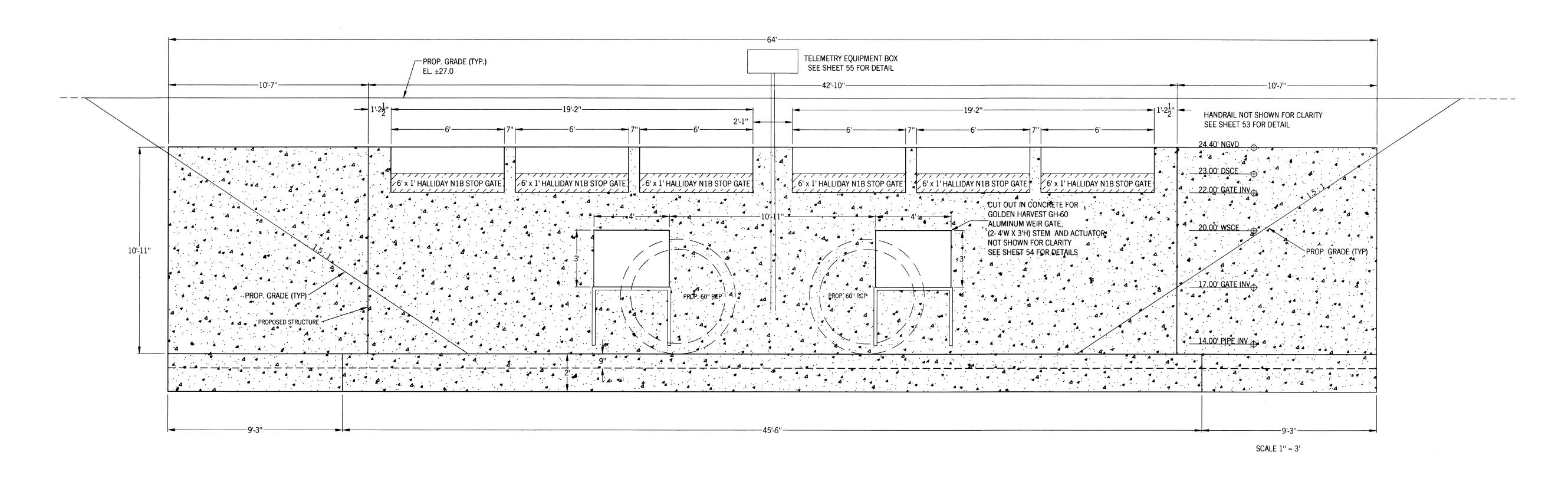
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SHEET 9/56

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 \Box O.R. PROJECT (A.B. VIEWS SIDE **JND** LEHIGH WEIRS SOUTHWEST

SHEET 10/56

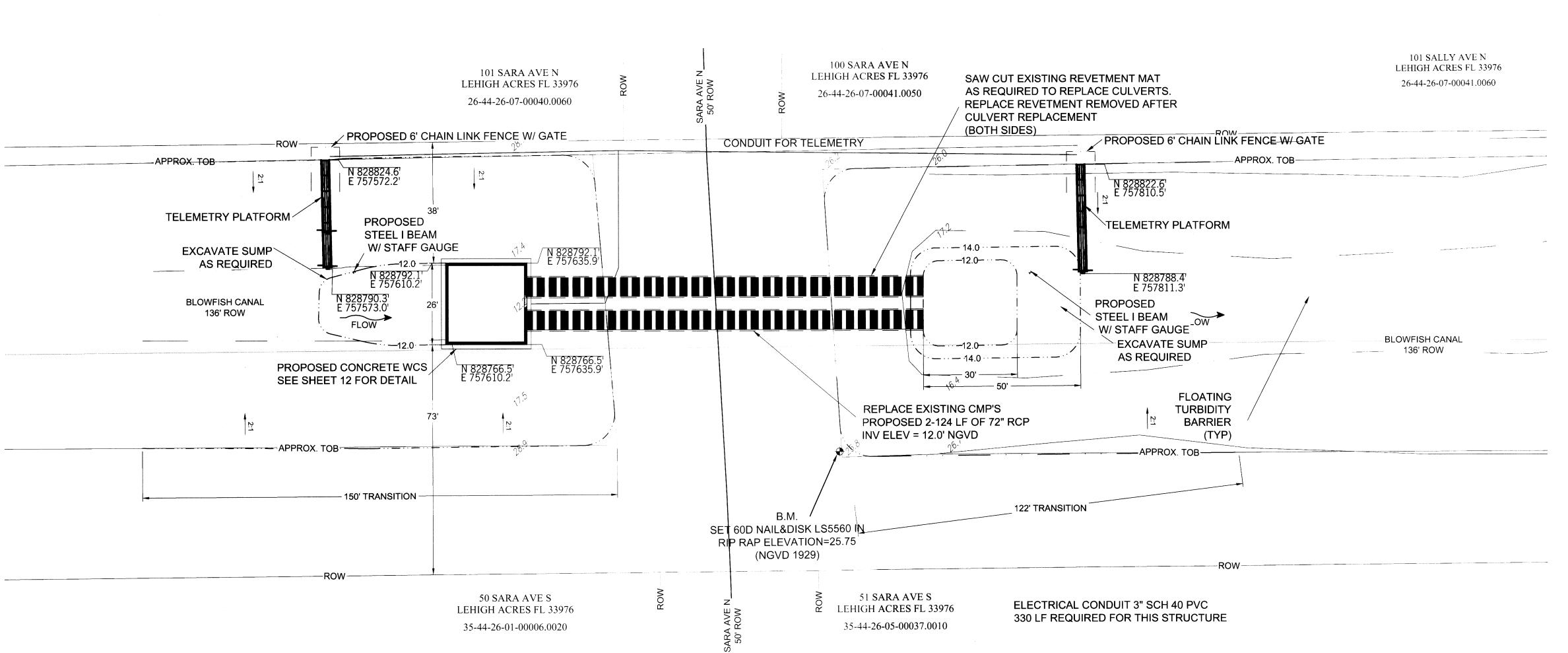
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APPROVED BY: RHT DATE: SEPT 2015



PROPOSED 6' CHAIN LINK FENCE W/ GATE PROPOSED 6' CHAIN LINK FENCE W/ GATE PROPOSED STEEL I BEAM W/ STAFF GAUGE AS REQUIRED STEEL I BEAM W/ STAFF GAUGE PROPOSED CONCRETE WCS SEE SHEET 12 FOR DETAIL REPLACE EXISTING CMP'S PROPOSED 2-124 LF OF 72" RCF



1'' = 20'

B WEIRS AERIAL 5 STRUCTURE CLIENT: SOUTHWE

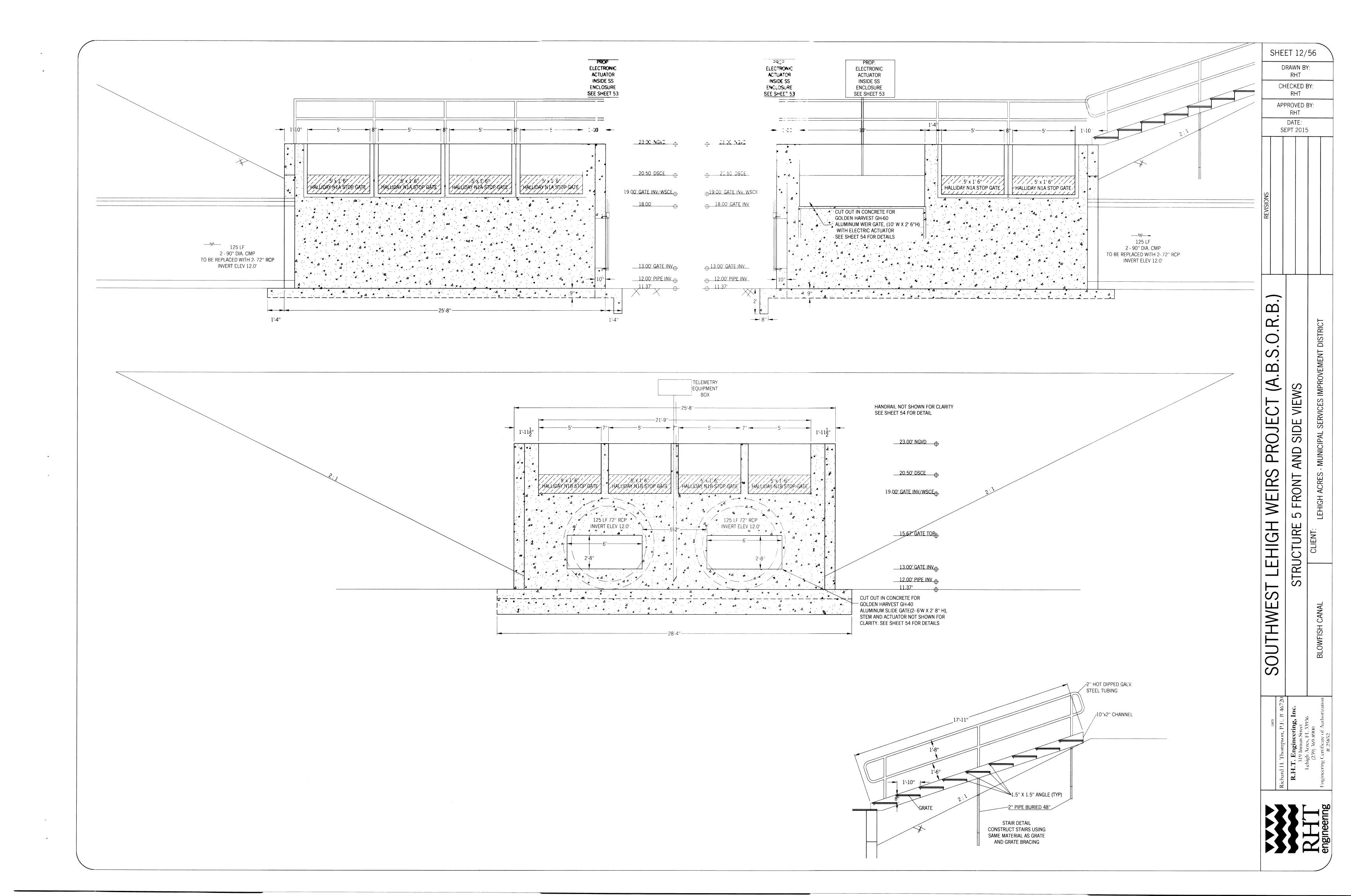
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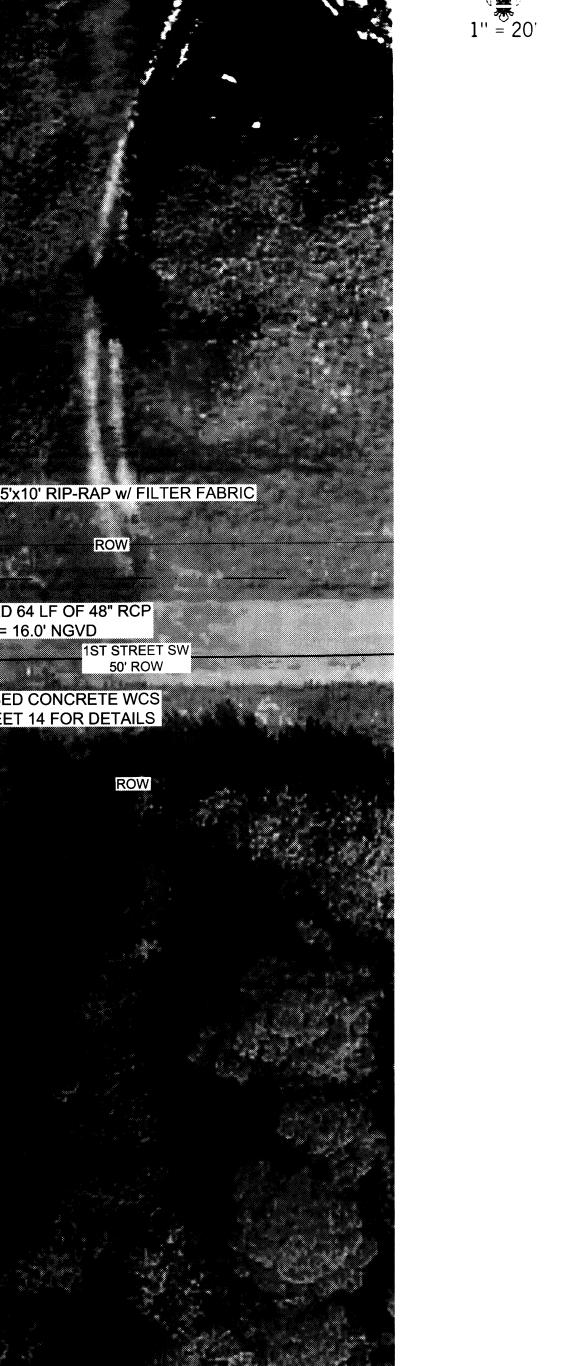
O.R.



STAKED SILT FENCE (I

EXCAVATE SUMP AS REQUIRED

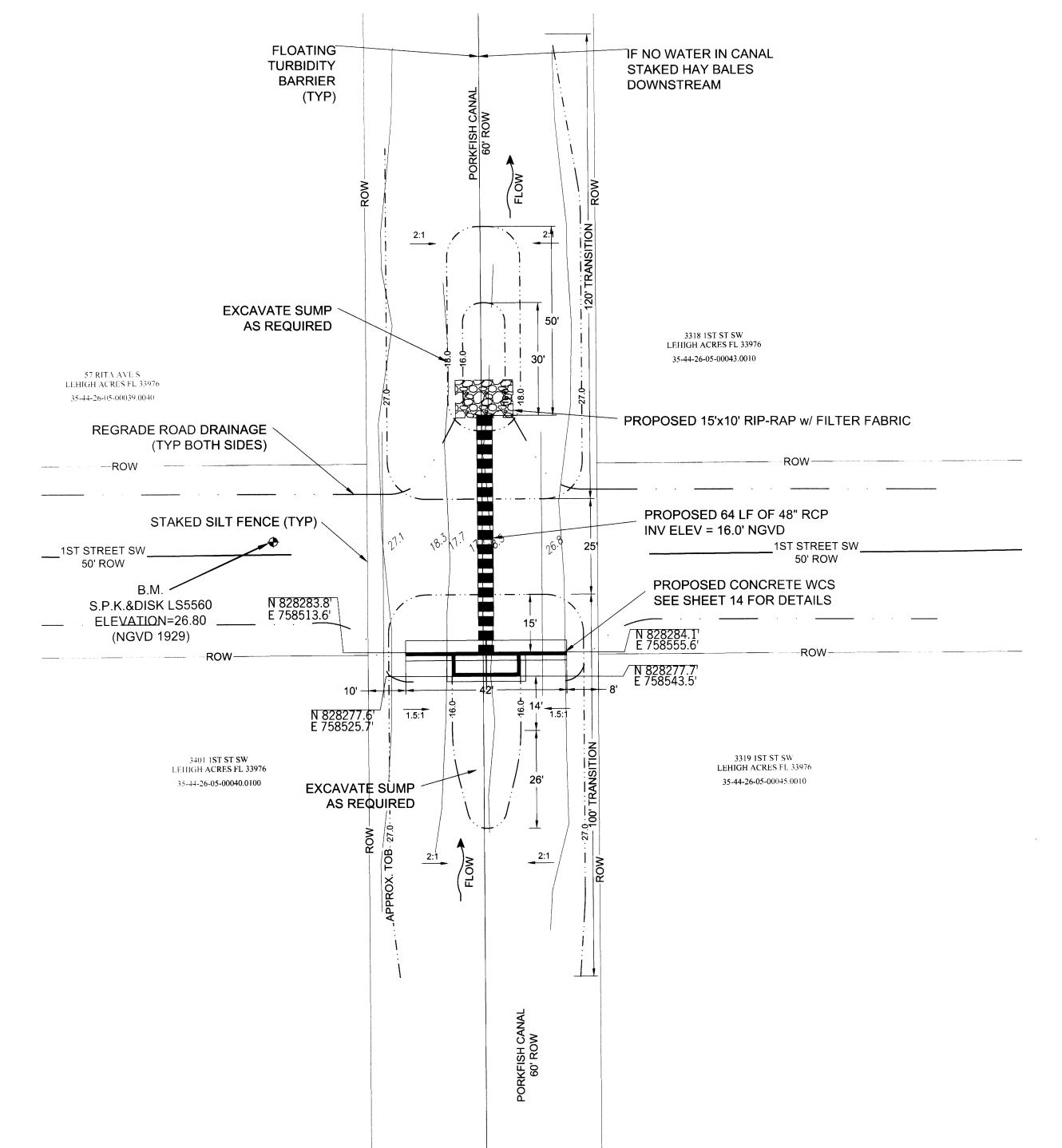
1ST STREET SW 50' ROW



PROPOSED 15'x10' RIP-RAP w/ FILTER FABRIC

PROPOSED CONCRETE WCS
SEE SHEET 14 FOR DETAILS

PROPOSED 64 LF OF 48" RCP INV ELEV = 16.0' NGVD



SOUTHWEST LEHIGH WEIRS

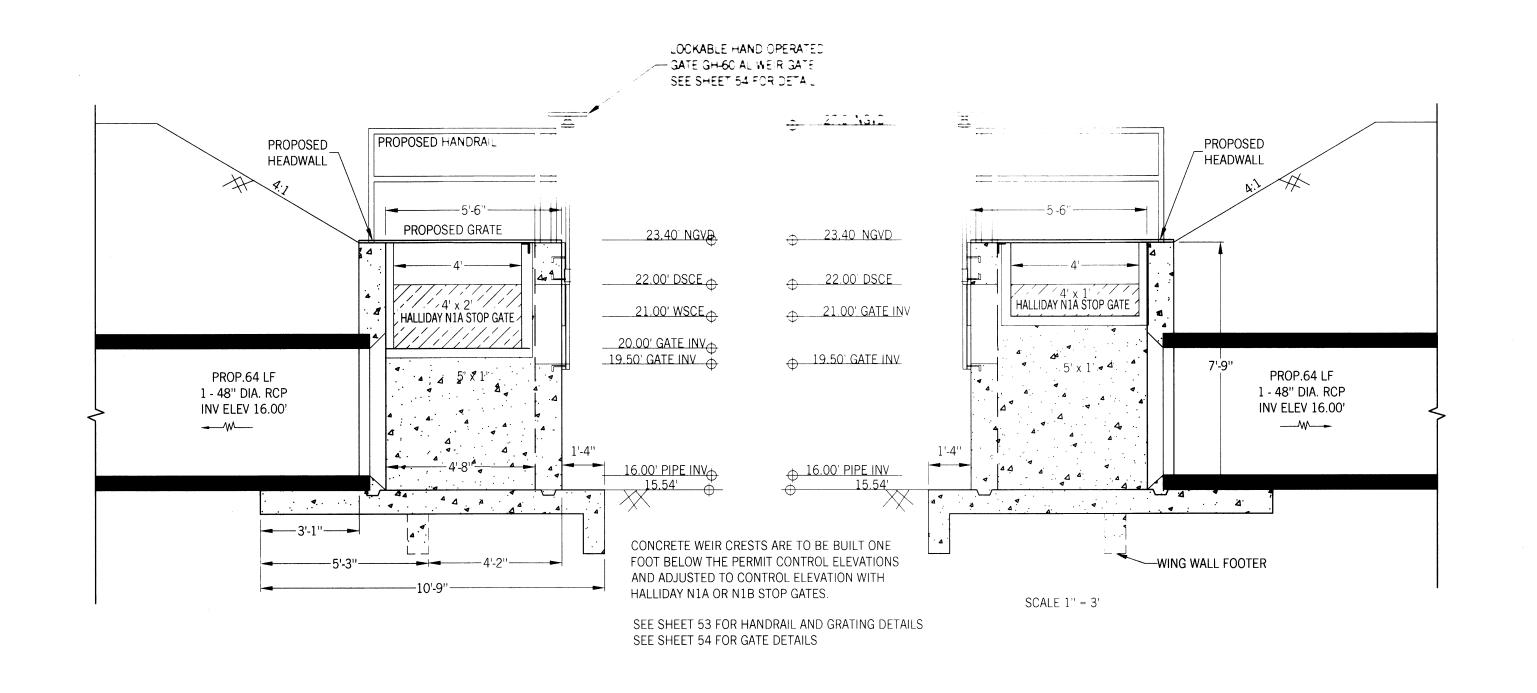
STRUCTURE 6 AERIAL

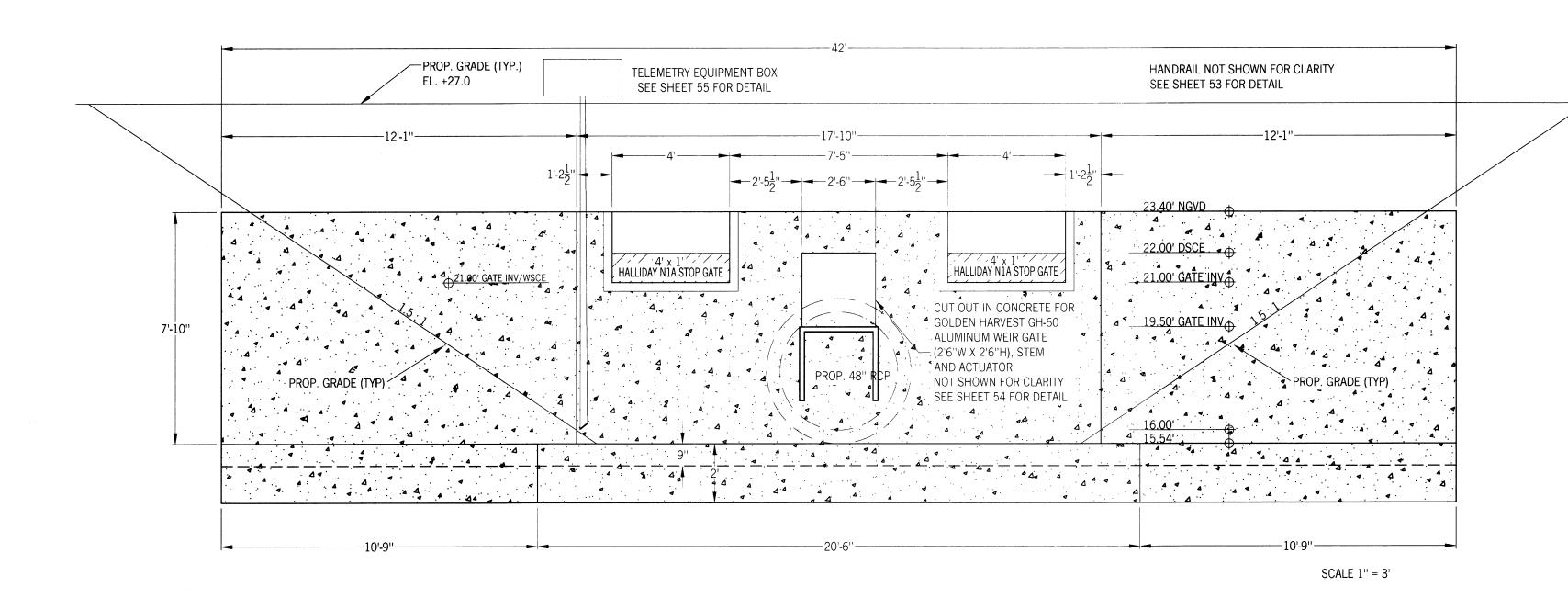
SHEET 13/56

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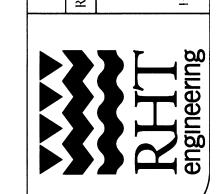
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APPROVED BY: RHT DATE: SEPT 2015

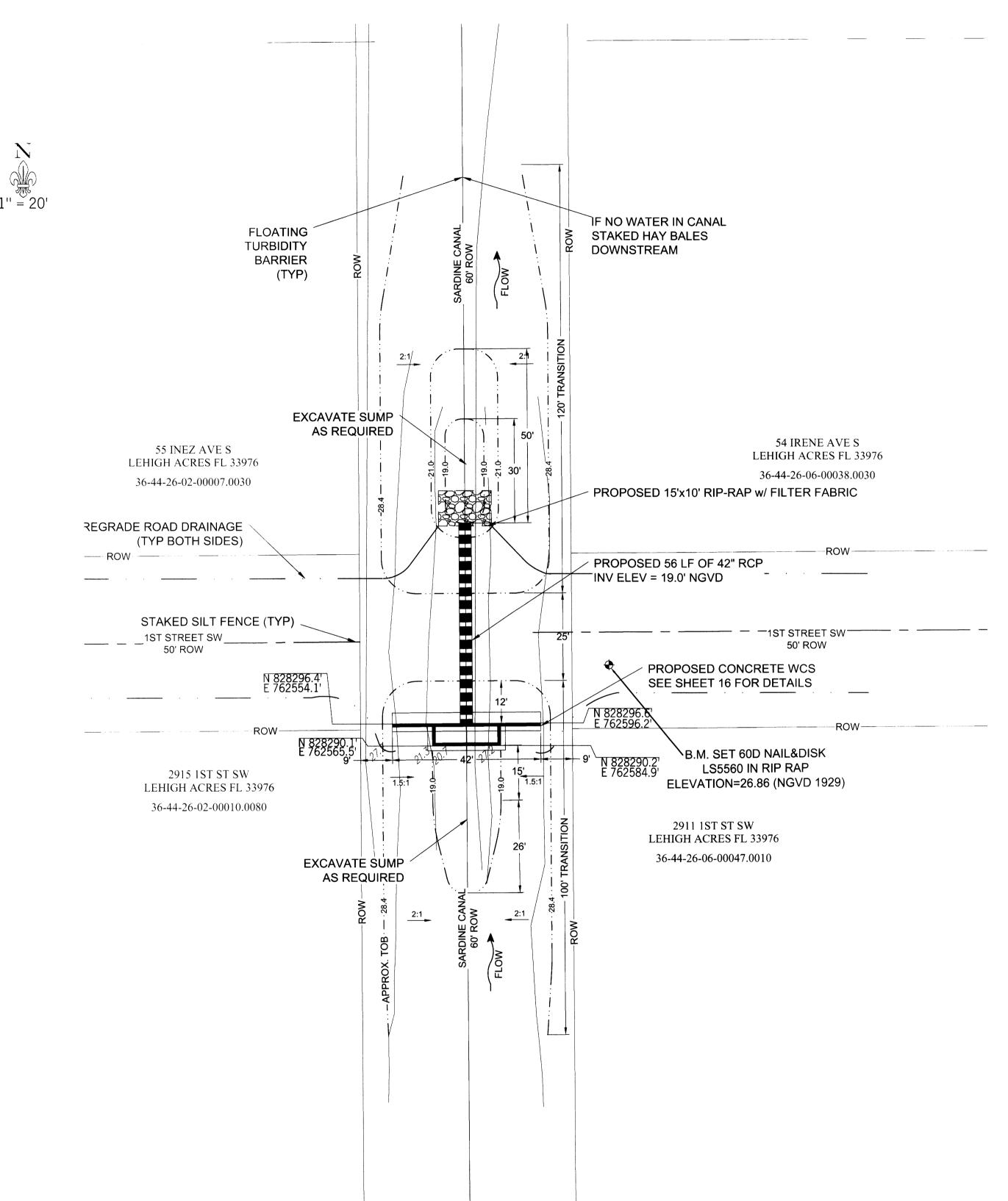




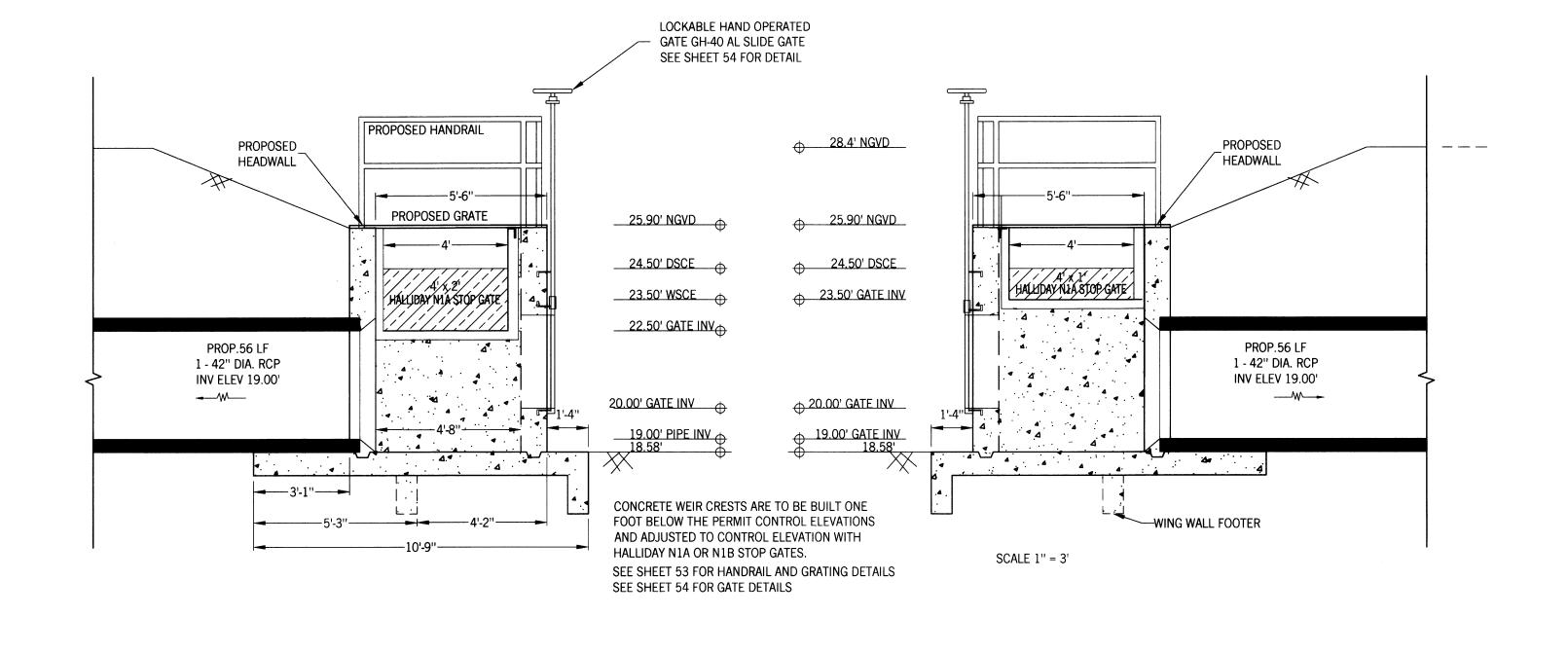
SHEET 14/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 MUNICIPAL SERVICES IMPROVEMENT DISTRICT SOUTHWEST LEHIGH WEIRS PROJECT (A.B. VIEWS SIDE AND 6 FRONT STRUCTURE (

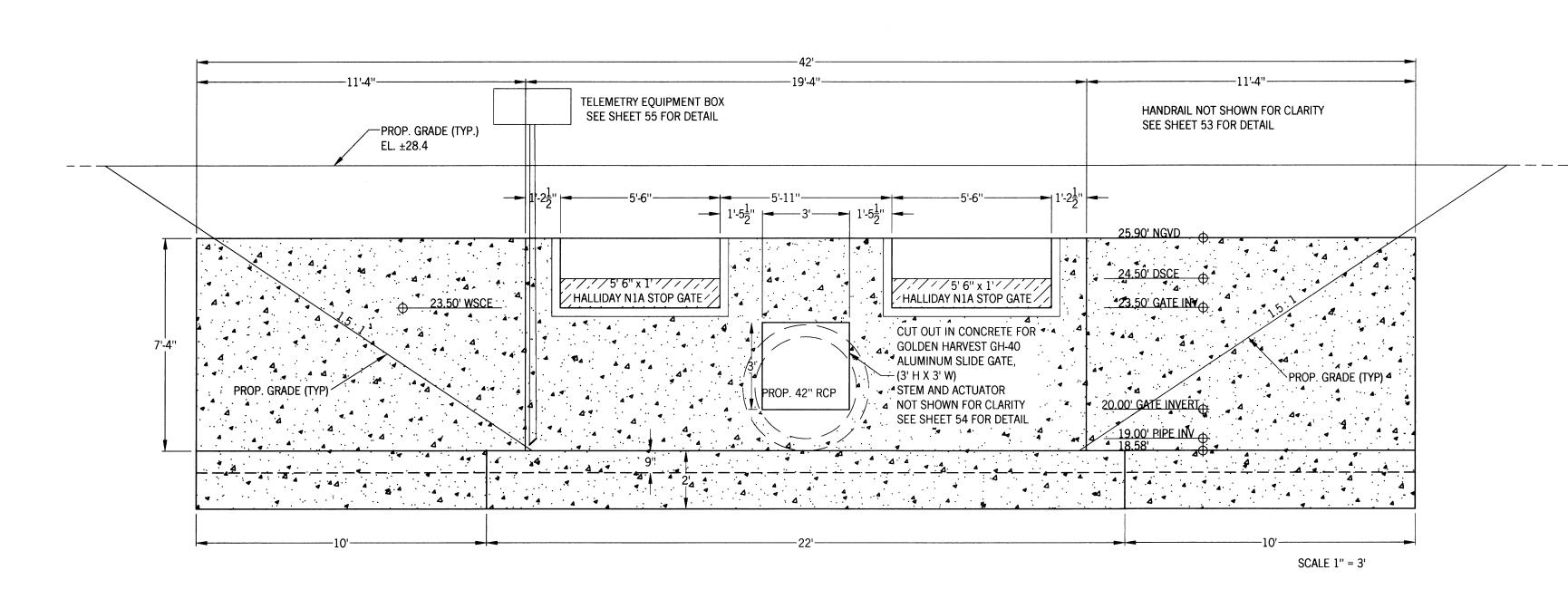






SHEET 15/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 (A.B.S.O.R.B.) SOUTHWEST LEHIGH WEIRS 7 AERIAI STRUCTURE 7



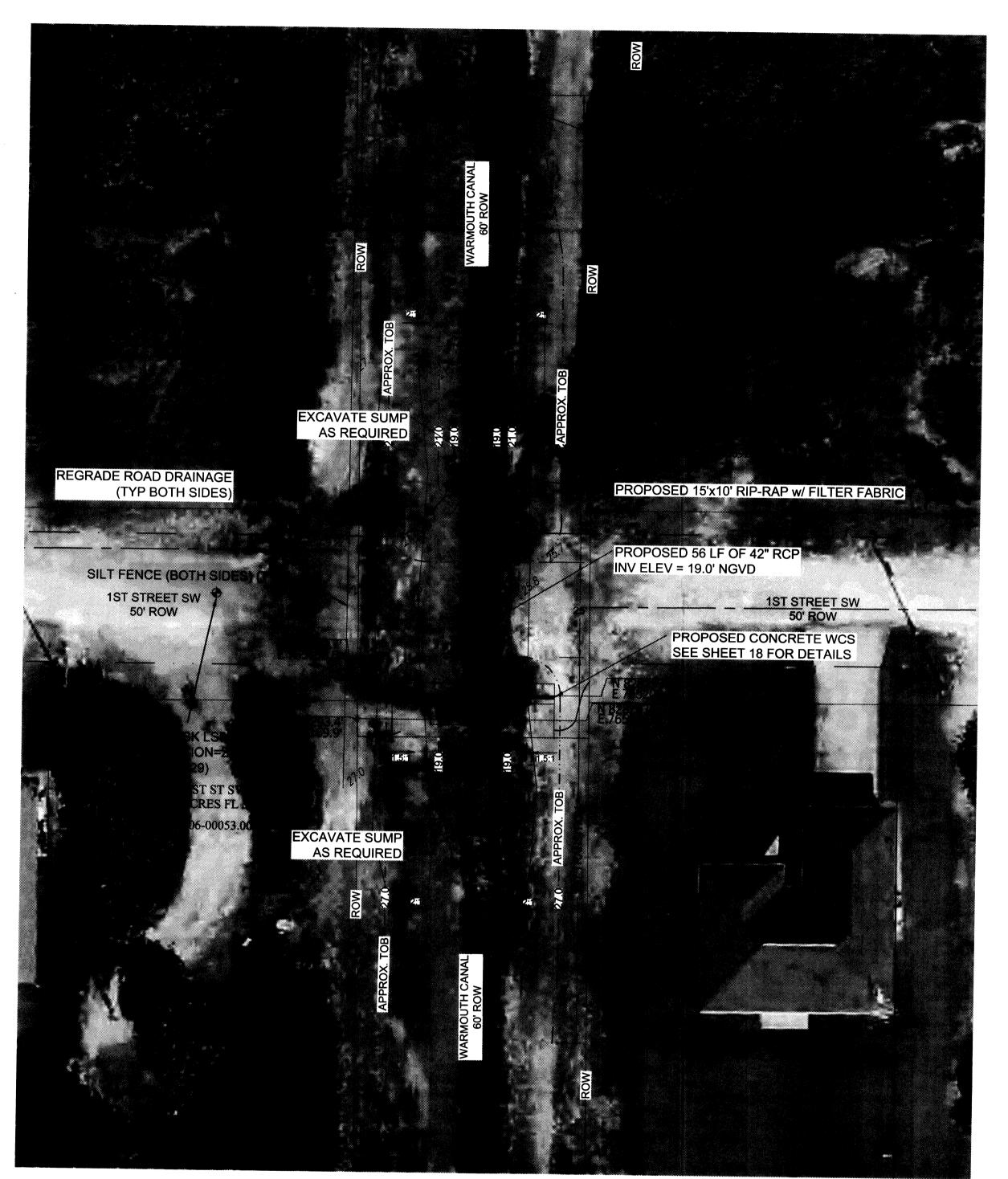


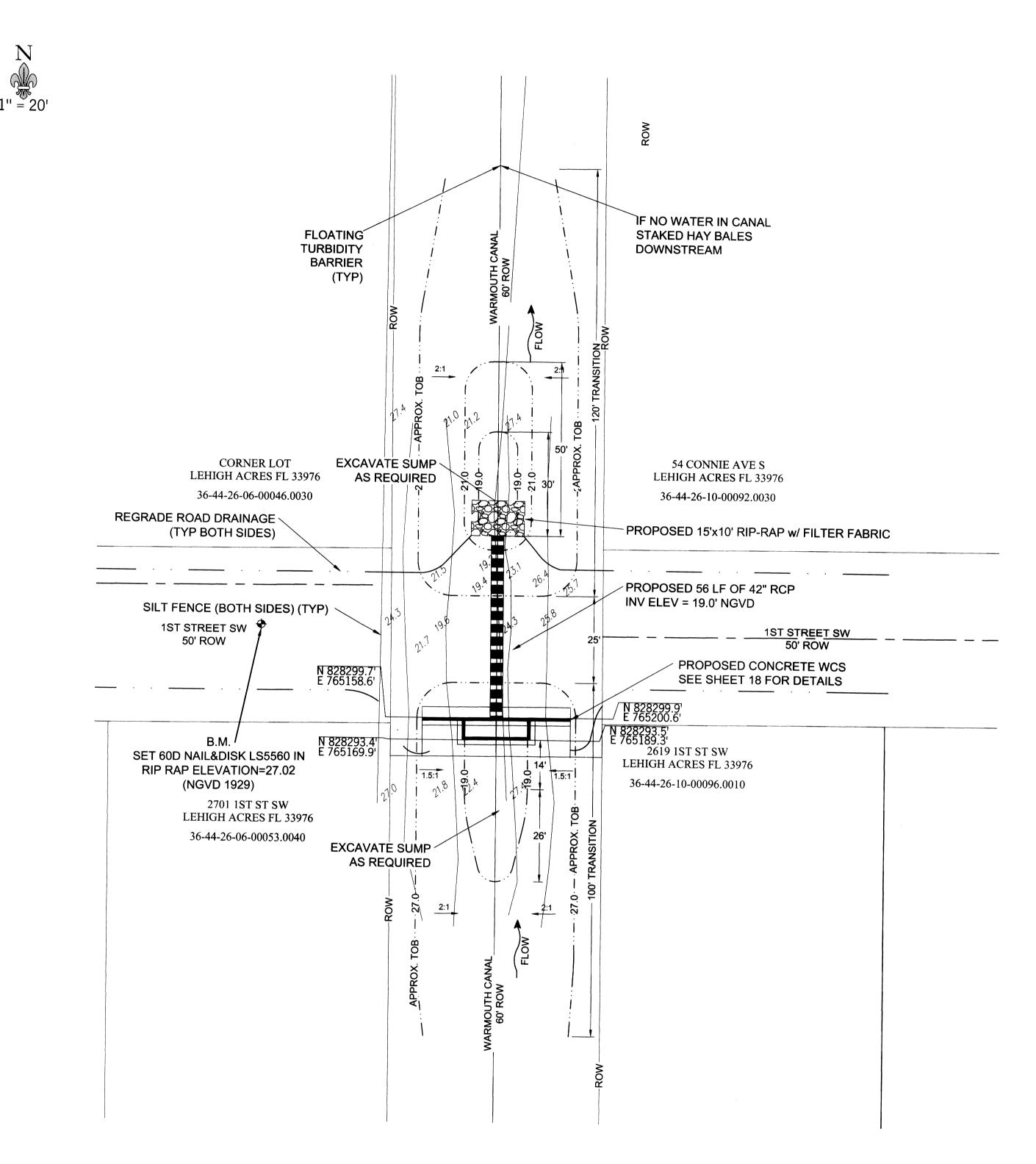
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REVISIONS									
_		_			SIRUCIURE / FRONI AND SIDE VIEWS		CLIENT:	LETIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT	
- FOL/** FI CO					とこの		CABDINE CANAI	SANDIINE CAINAL	
	DATE:	*d H Thompson P F # 46720	id ii. Inompout, i.e. ii ioi zo	H.T. Engineering, Inc.	319 Inman Street	Lehioh Acres FL 33936	(239) 369-8900	eering Certificate of Authorization	# 25852

SHEET 16/56

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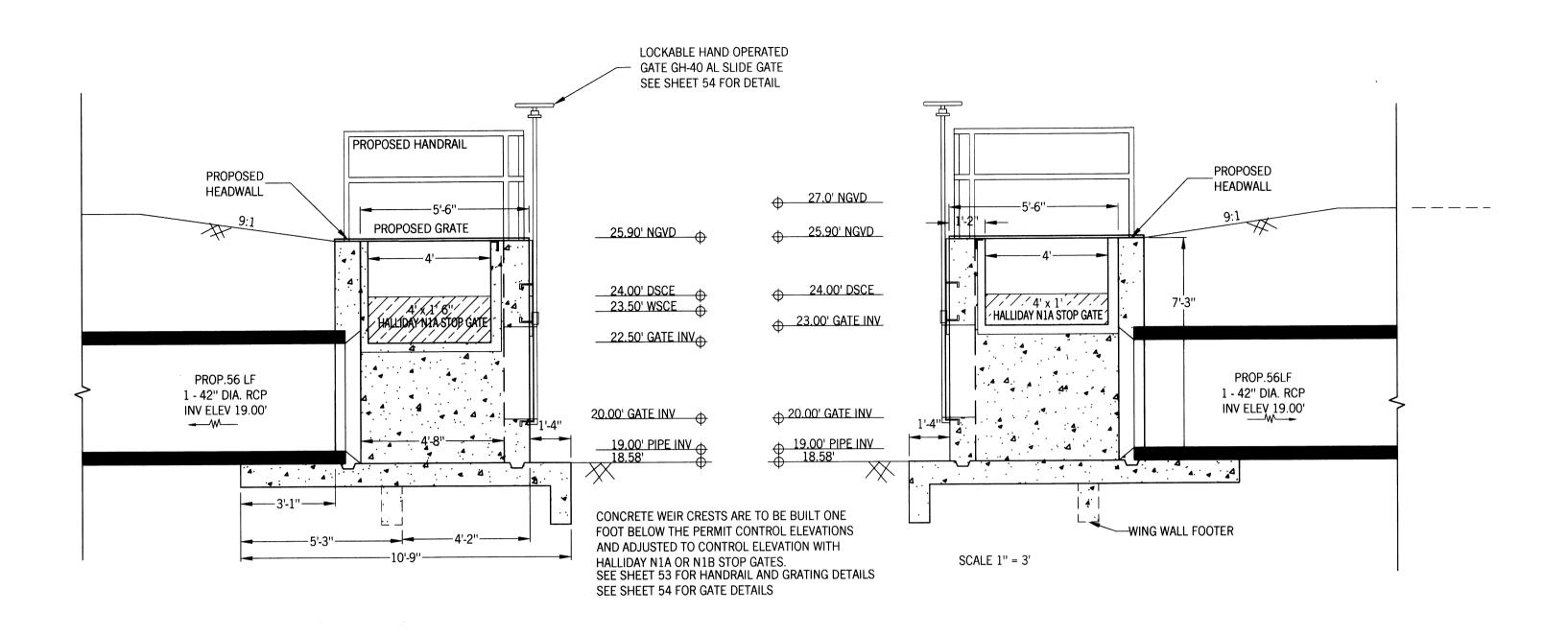


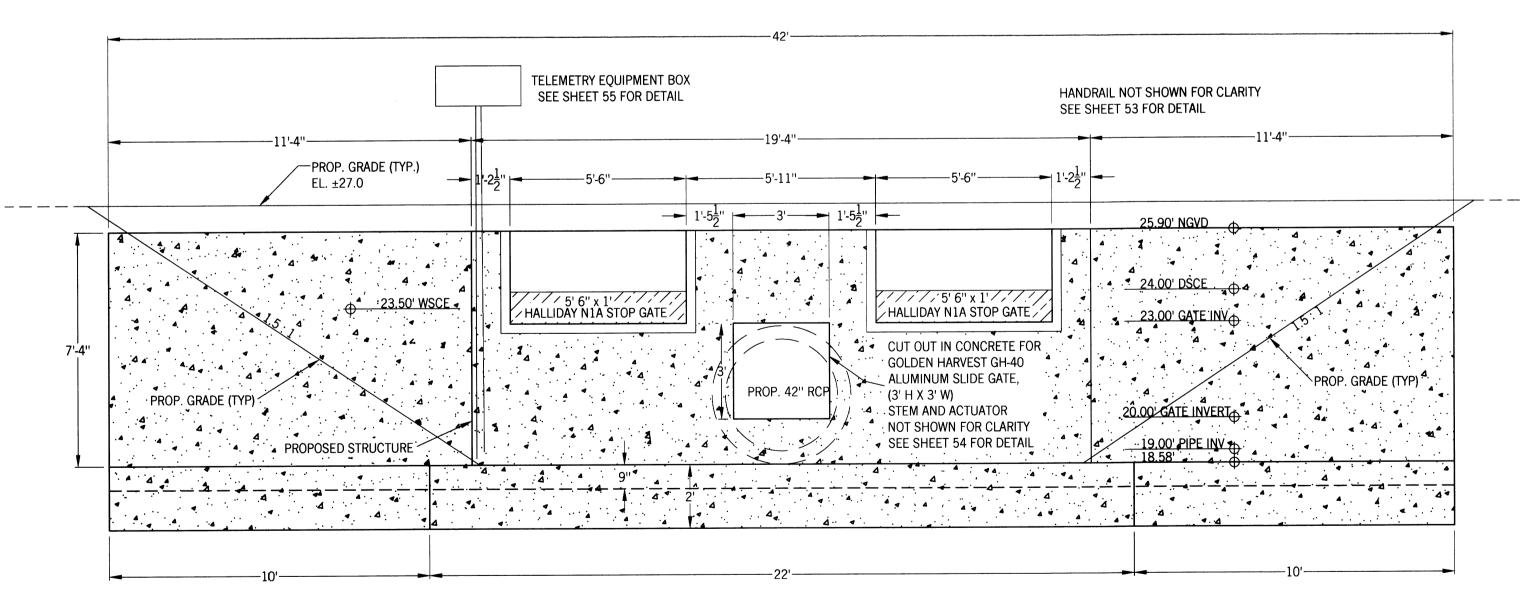




SHEET 17/56 DRAWN BY: CHECKED BY: APPROVED BY: DATE: **SEPT 2015** (A.B.S.O.R.B.) ND PLAN VIEW **PROJECT** LEHIGH ACRES - M STRUCTURE 8 AERIAL A SOUTHWEST LEHIGH WEIRS

WARMOUTH CANAL





SCALE 1" = 3'

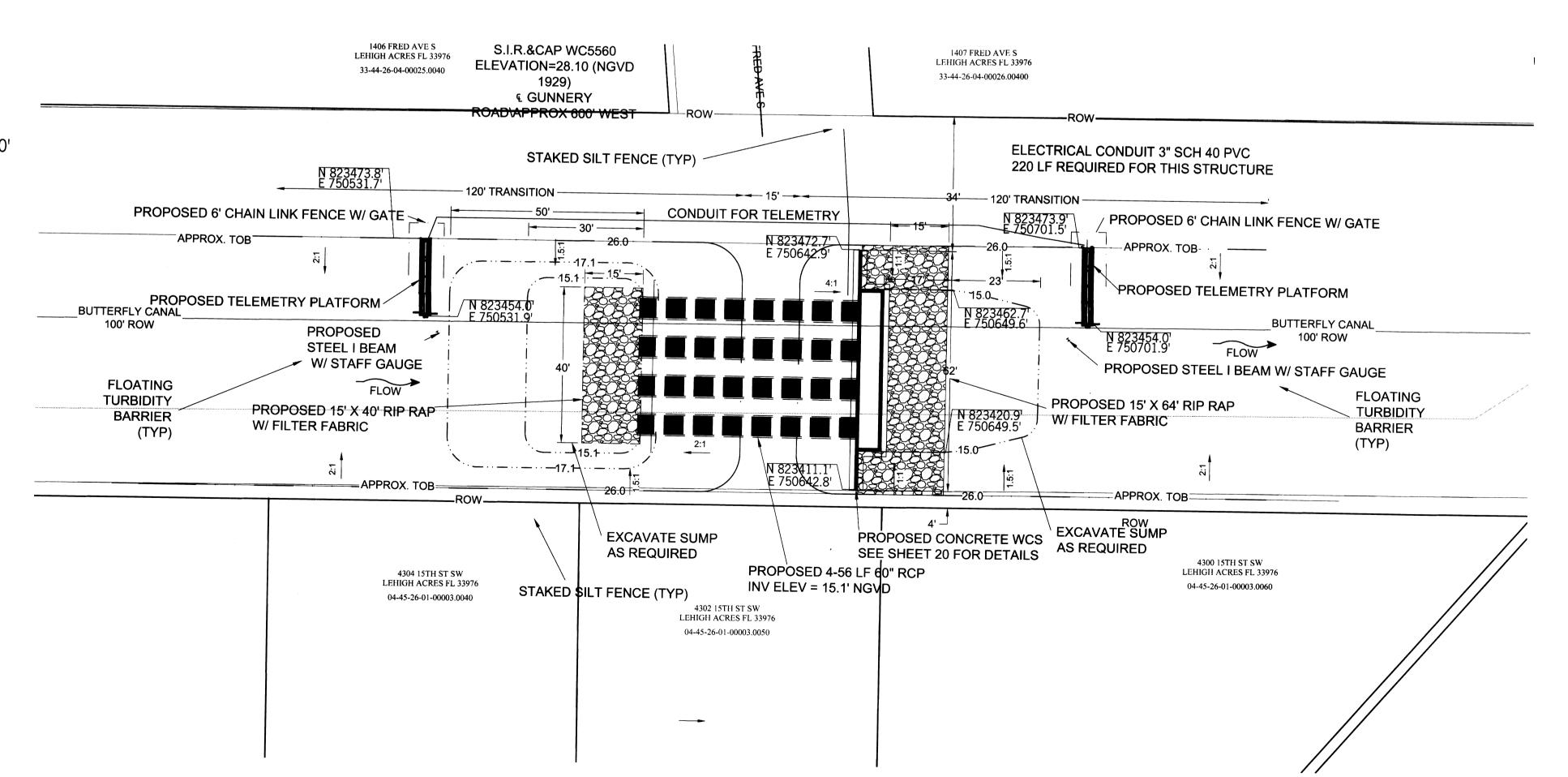
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	REVISIONS						
	_	HIGH WEIKS PROJECT (A.B.S.O.K.B.)			STRUCTURE 8 FROM AND SIDE VIEWS	CLIENT:	LEHIGH ACKES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
	1 - TO1/4 TI OO	SOUTHWEST LEHIGH		-	SIRL		WAKMOUTH CANAL

Richard H
Richard H
R.H.7

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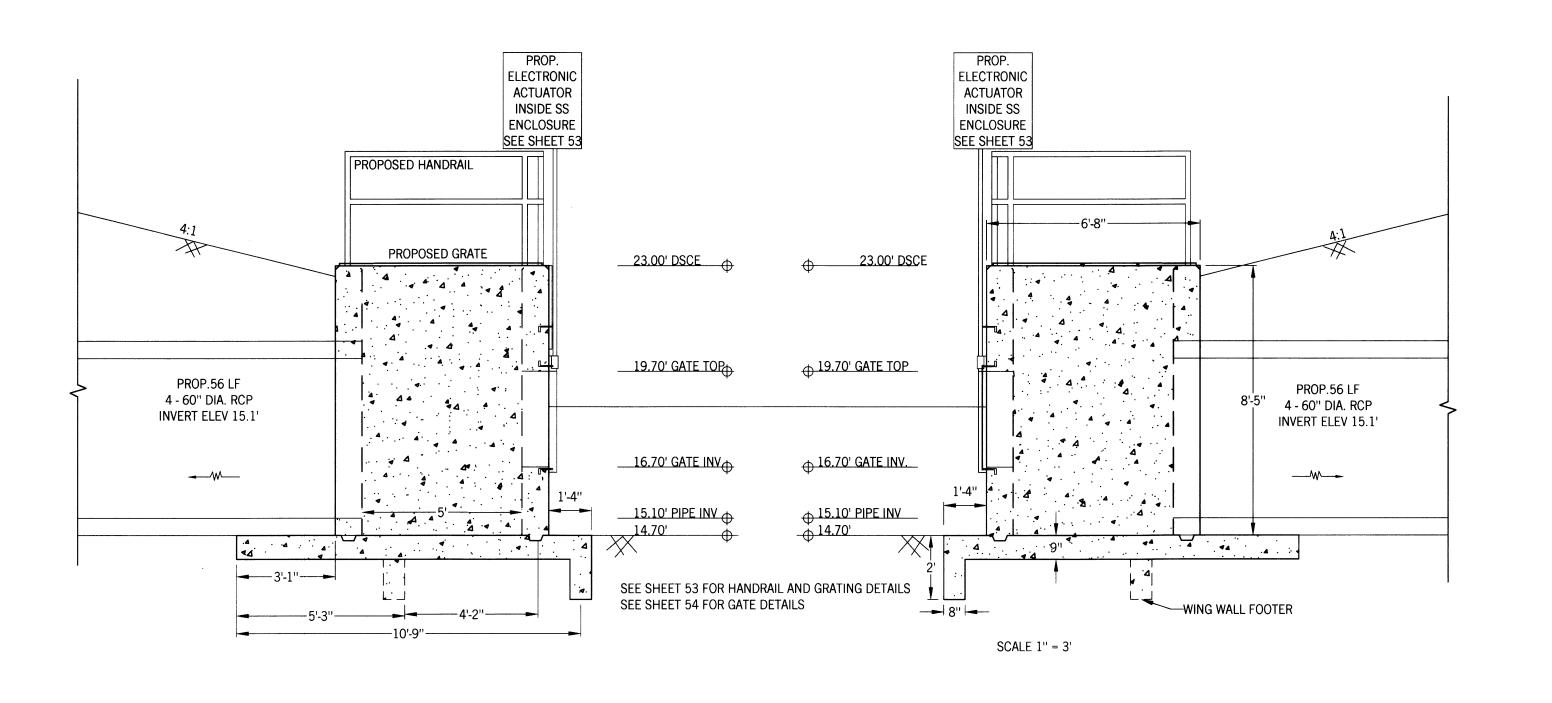


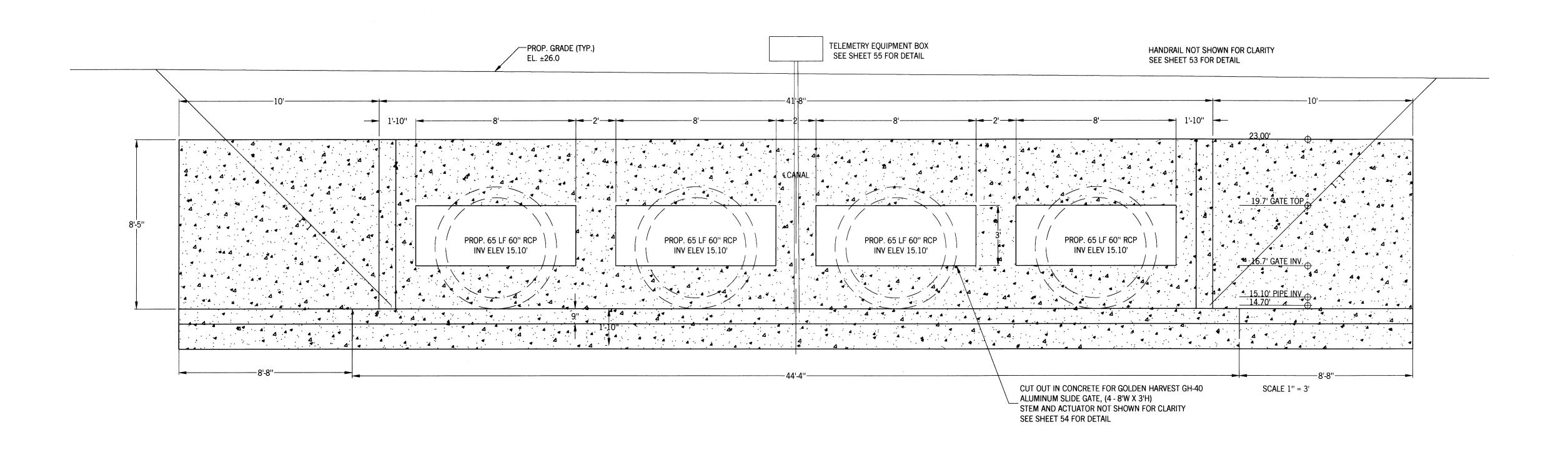


CHECKED BY: APPROVED BY: RHT DATE: SEPT 2015 PROJECT (A.B.S.O.R.B.) AND PLAN VIEW SOUTHWEST LEHIGH WEIRS AERIAL 0 BUTTERFLY CANAL

SHEET 19/56

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PROJECT (A.B.S.O.R.B.) IND SIDE VIEWS 9 FRONT AI SOUTHWEST LEHIGH WEIRS STRUCTURE !

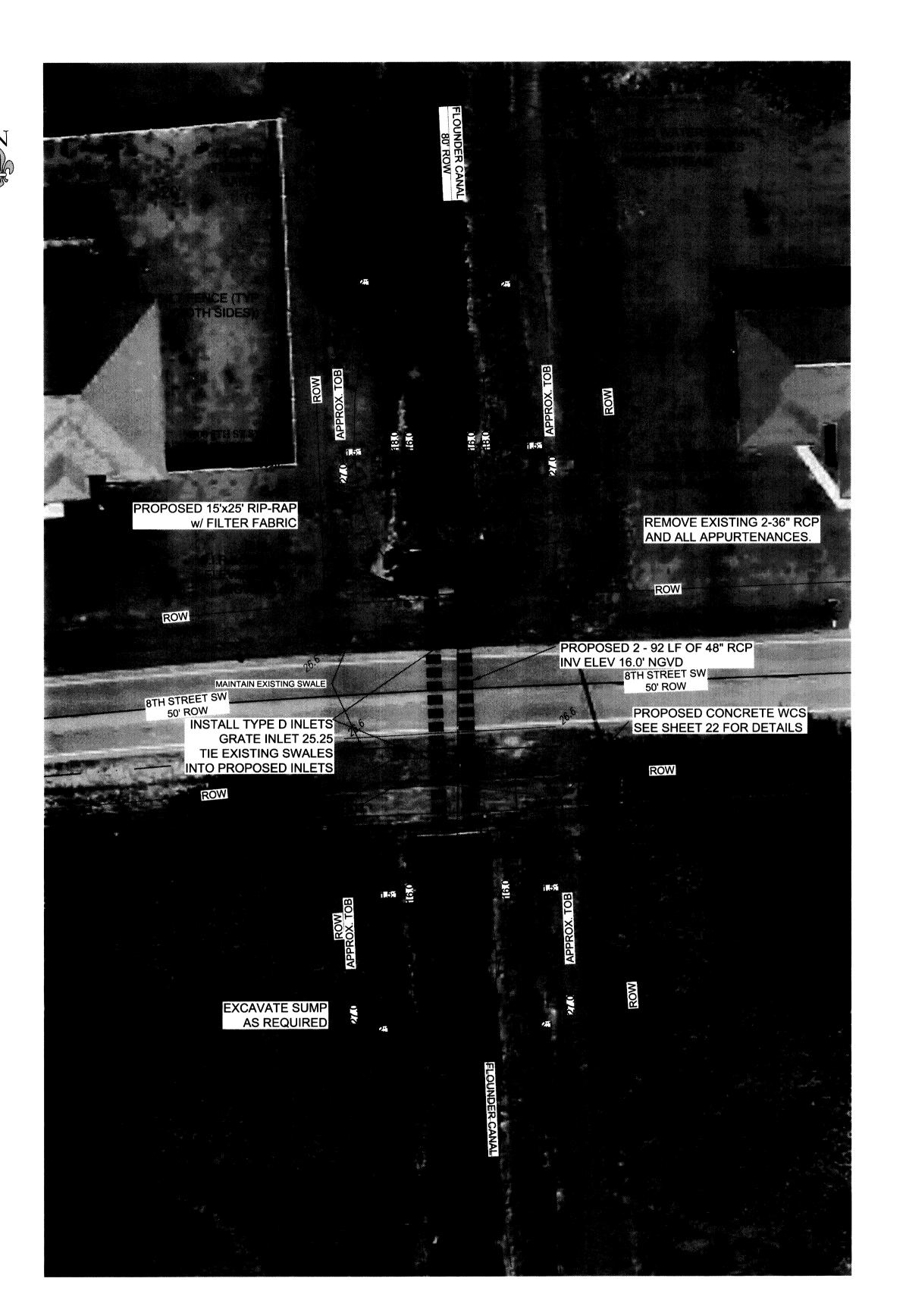
SHEET 20/56

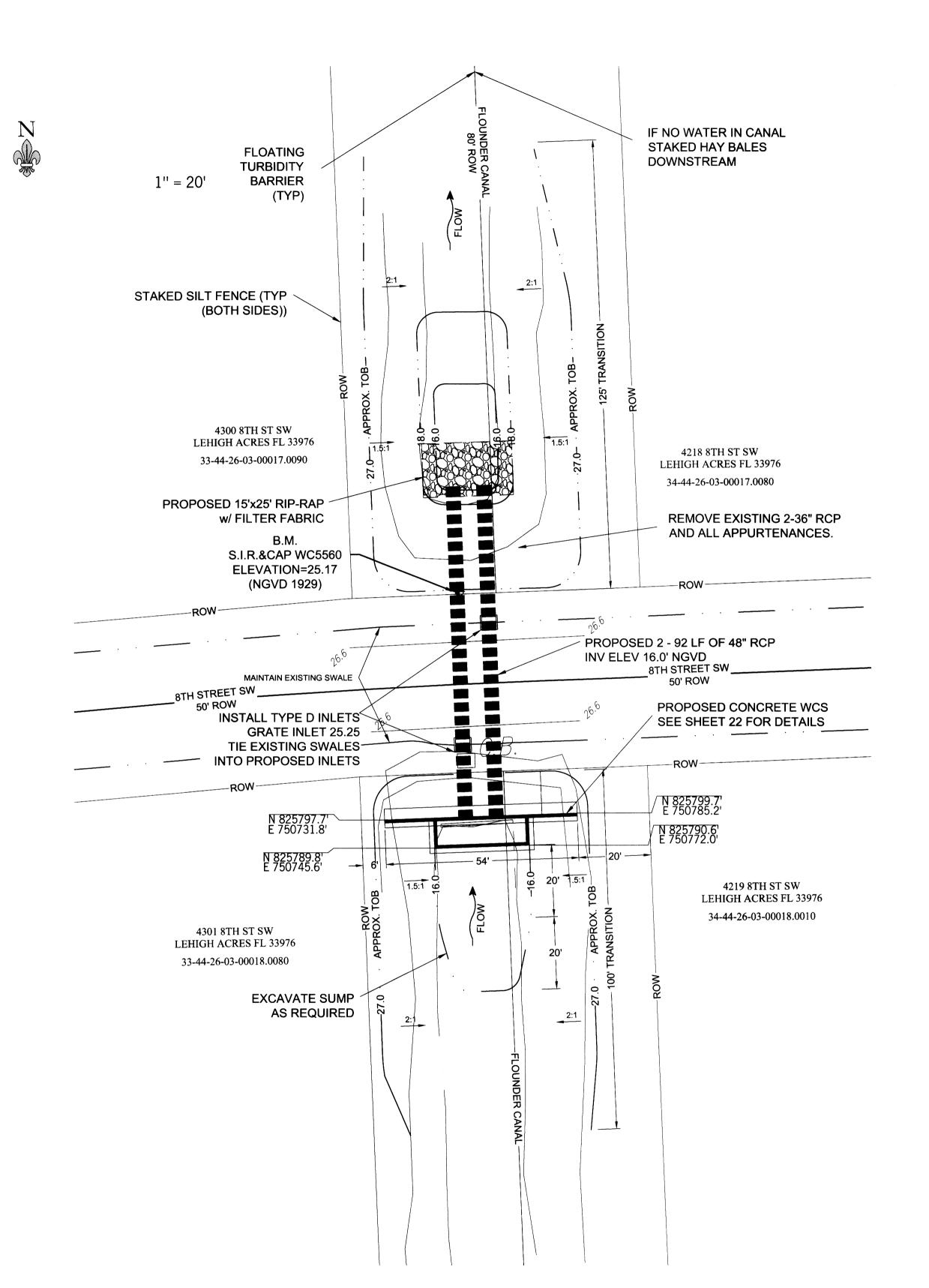
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APPROVED BY: RHT DATE:

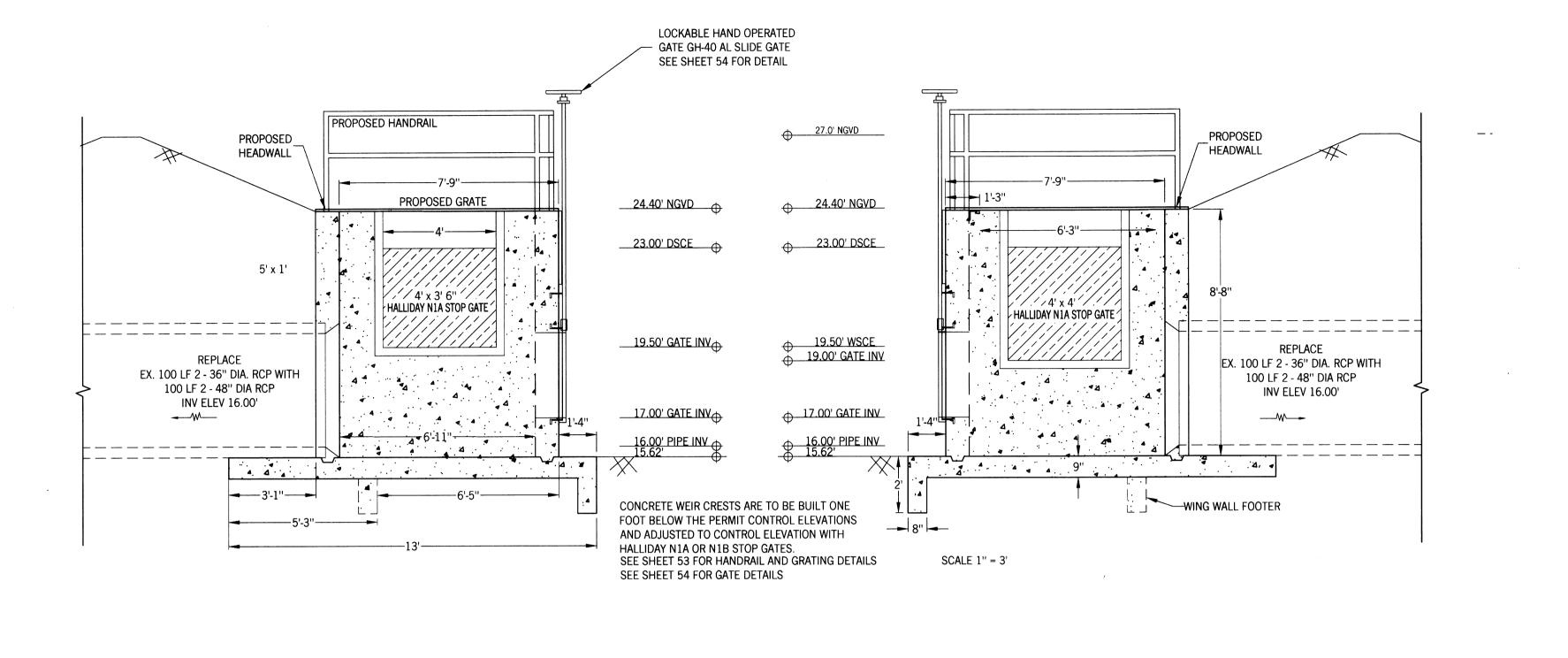
SEPT 2015

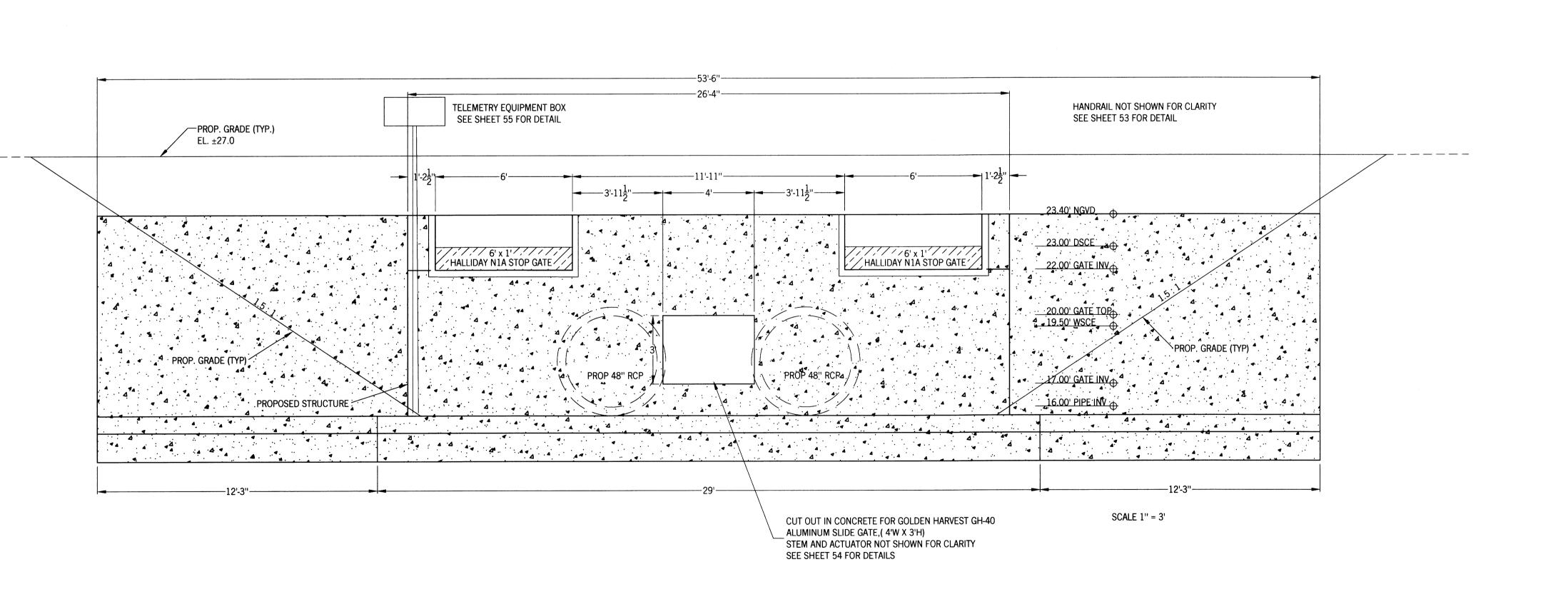




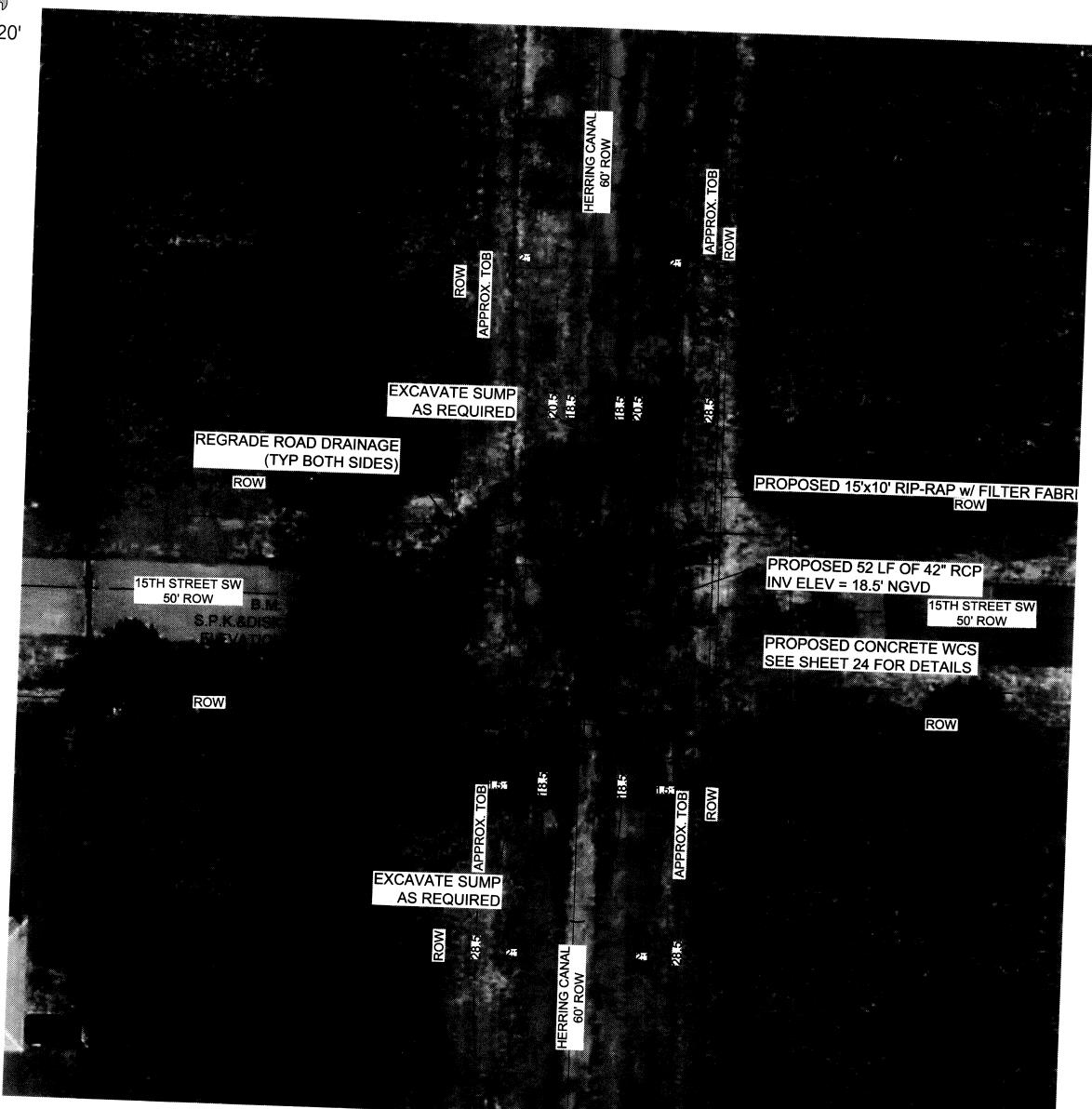
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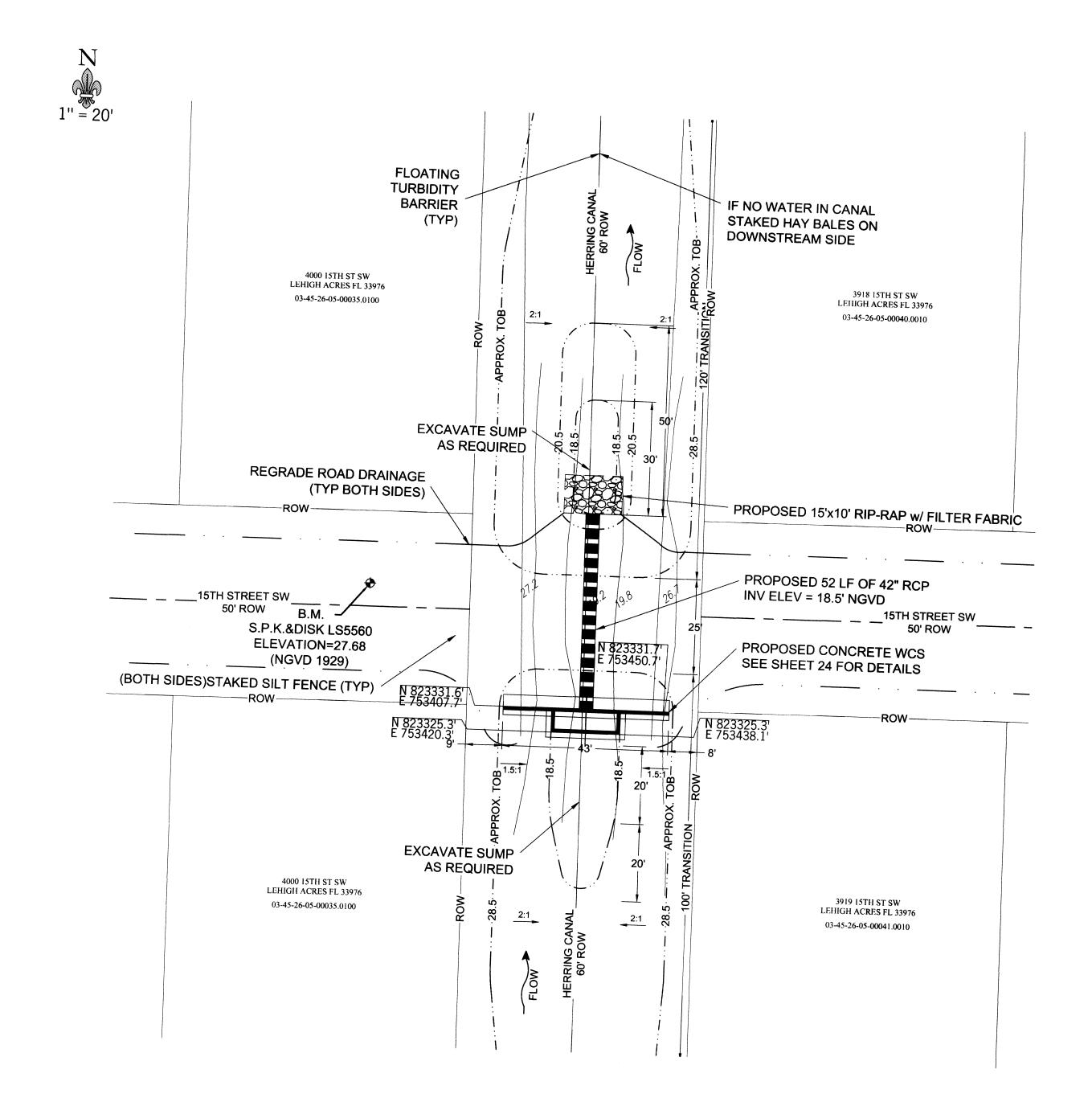
RHT engineering





SHEET 22/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 .S.O.R.B.) PROJECT (A.B. SIDE AND SOUTHWEST LEHIGH WEIRS 10 FRONT STRUCTURE " = 20'





SHEET 23/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 .S.O.R.B.) PROJECT (A.B. STRUCTURE 12 AERIAL AND PLAN VIEW SOUTHWEST LEHIGH WEIRS

Richard H. Thompson, P.

R.H.T. Engineerin

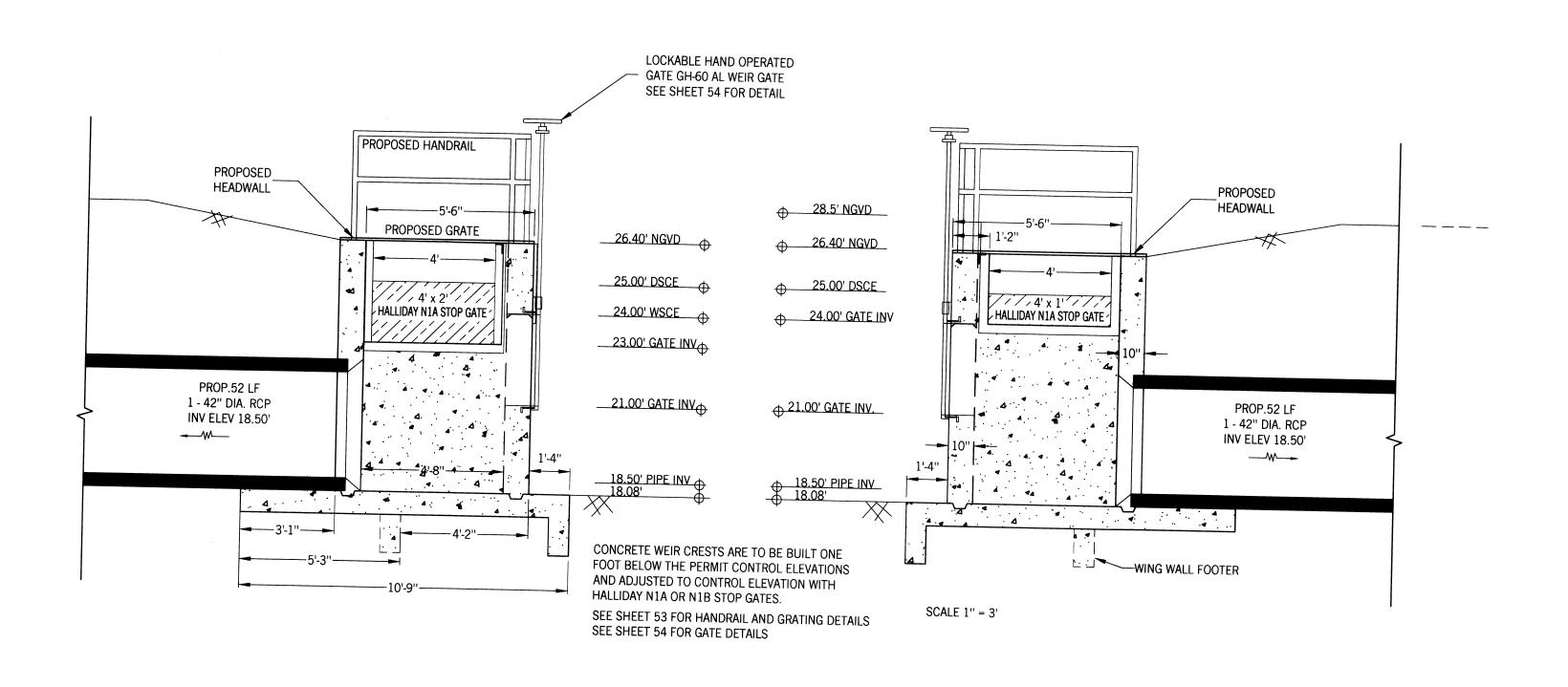
319 Inman Street

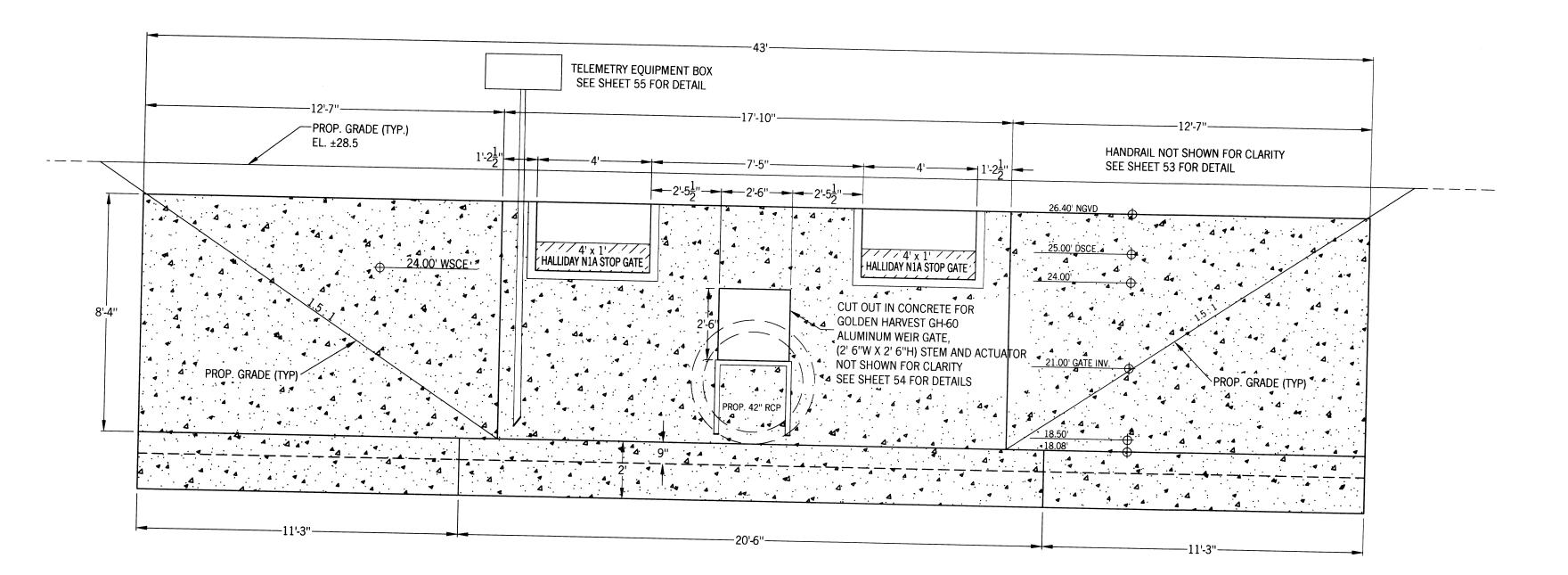
Lehigh Acres, FL 33

(239) 369-8900

Engineering Certificate of An

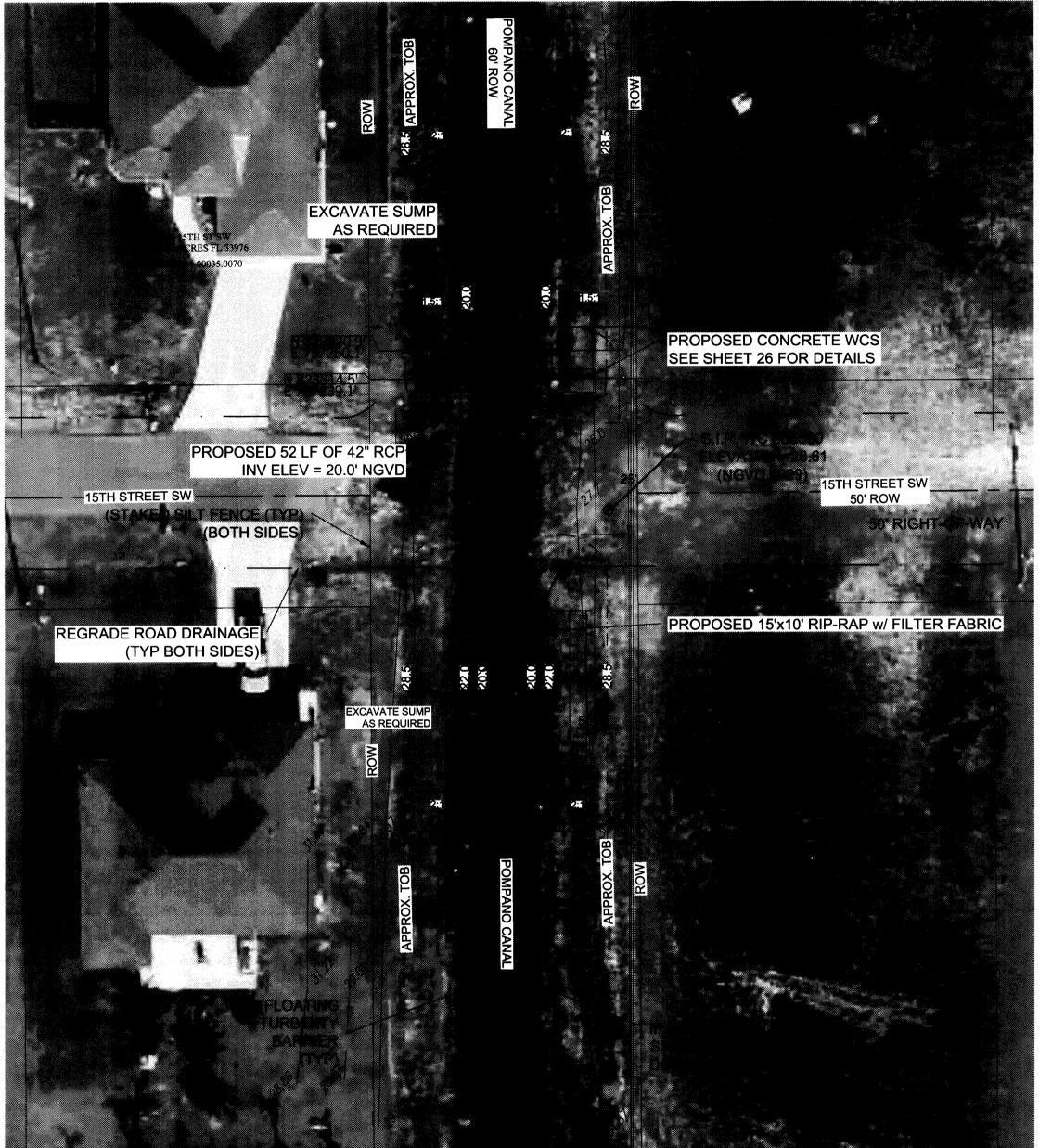


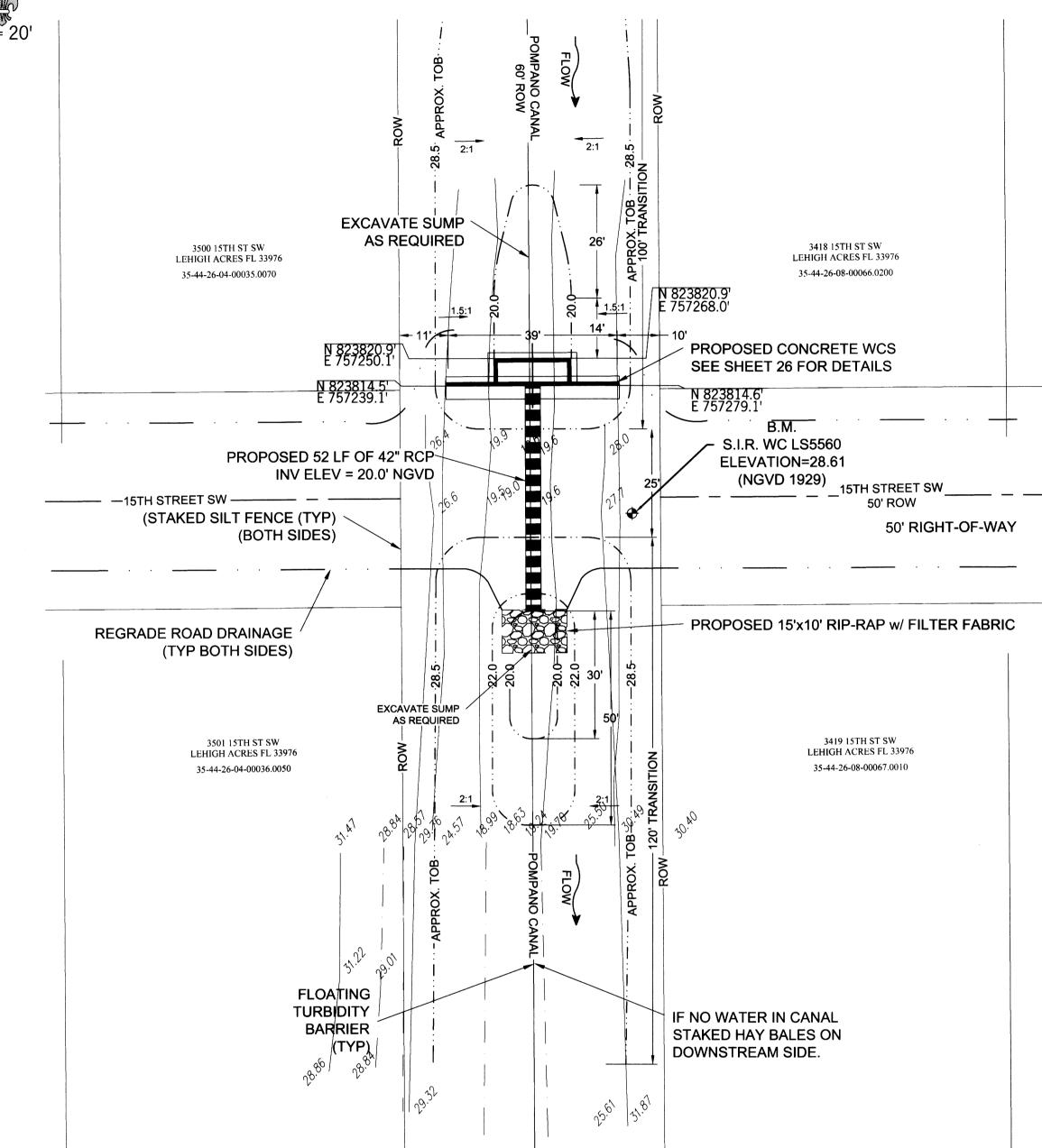




SHEET 24/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 .R.B.) SOUTHWEST LEHIGH WEIRS PROJECT (A.B. VIEWS SIDE AND 12 STRUCTURE CLIENT:







	ROW	POMPANO CANAL NOI	
3500 15TH ST SW LEHIGH ACRES FL 33976 35-44-26-04-00035.0070	EXCAVATE SUMP AS REQUIRED	26'	
	N 823820.9' E 757250.1' N 823814.5' E 757239.1' - D 52 LF OF 42" RCP 'ELEV = 20.0' NGVD	9 25	PROPOSED CONCRETE WCS SEE SHEET 26 FOR DETAILS N 823814.6' E 757279.1' B.M. S.I.R. WC LS5560 ELEVATION=28.61 (NGVD 1929) 15TH STREET SW
(STAKED SILT FENCE (BOTH S	(TYP)		50' ROW 50' RIGHT-OF-WAY
REGRADE ROAD DRAINAGE (TYP BOTH SIDES)			PROPOSED 15'x10' RIP-RAP w/ FILTER FABRIC
	EXCAVATE SUMP AS REQUIRED MOQ 2:1	20.8	3419 15TH ST SW LEHIGH ACRES FL 33976 35-44-26-08-00067.0010
3501 15TH ST SW LEHIGH ACRES FL 33976 35-44-26-04-00036.0050	EXCAVATE SUMP AS REQUIRED NO 2:1	22.00	3419 15TH ST SW LEHIGH ACRES FL 33976 35-44-26-08-00067.0010

PROJECT (A.B.S.O.R.B.) SOUTHWEST LEHIGH WEIRS STRUCTURE 13 AERIAL CLIENT: LEHIGH ACRES.

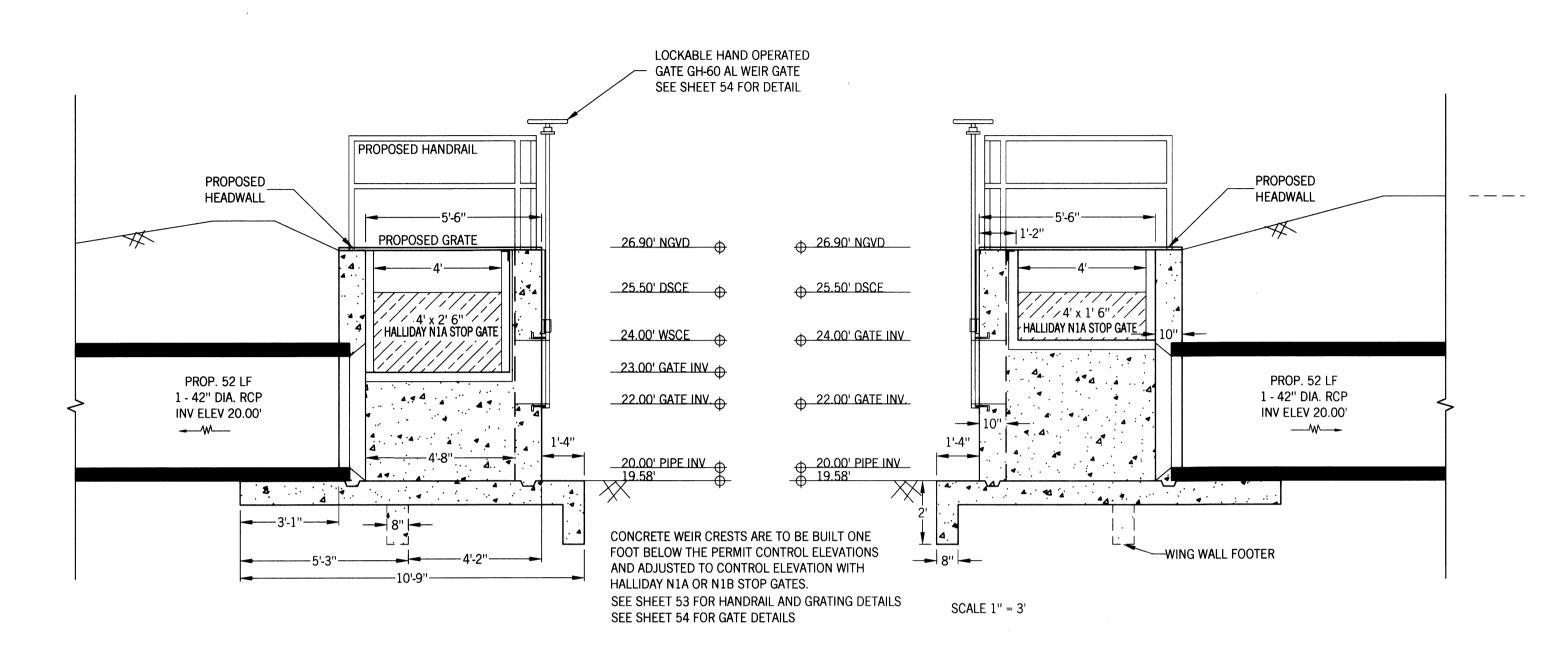
SHEET 25/56

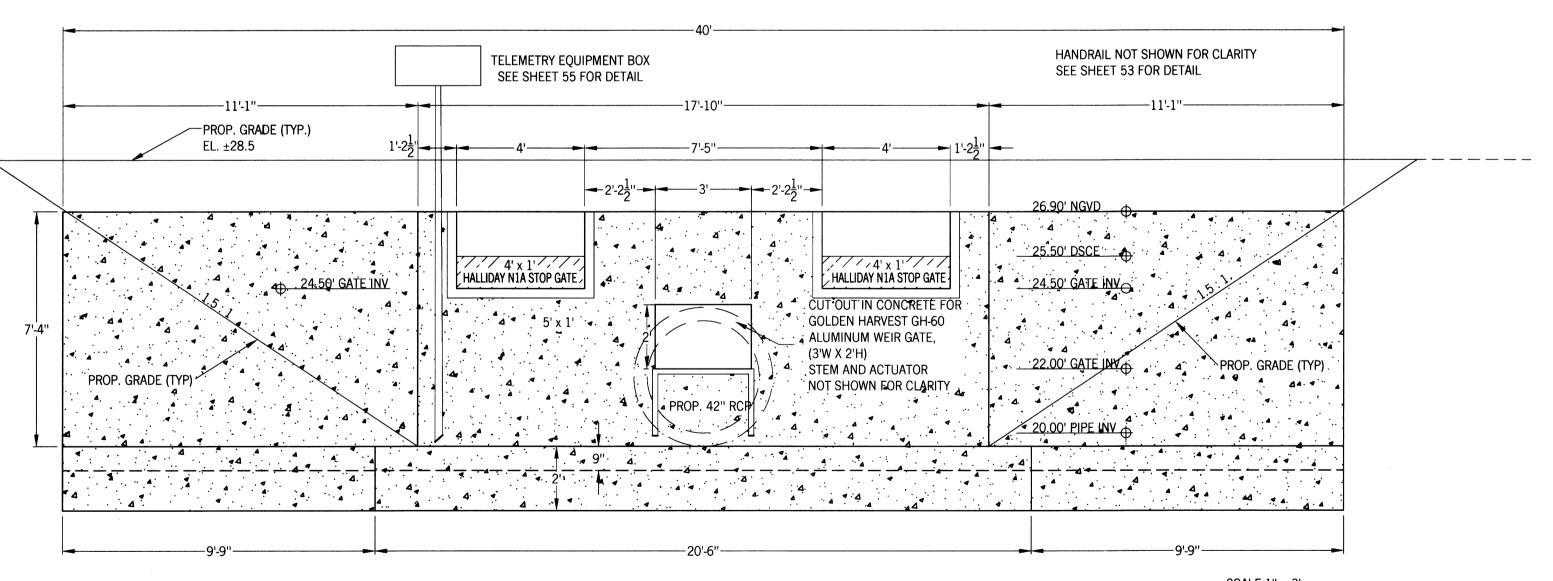
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APPROVED BY: RHT

DATE: SEPT 2015





RHT DATE: SEPT 2015 $\mathbf{\Omega}$ ج<u>.</u> S.0 (A.B. **AND SIDE VIEWS PROJECT** S Ś 13 FRONT WEIR LEHIGH STRUCTURE SOUTHWEST

SHEET 26/56

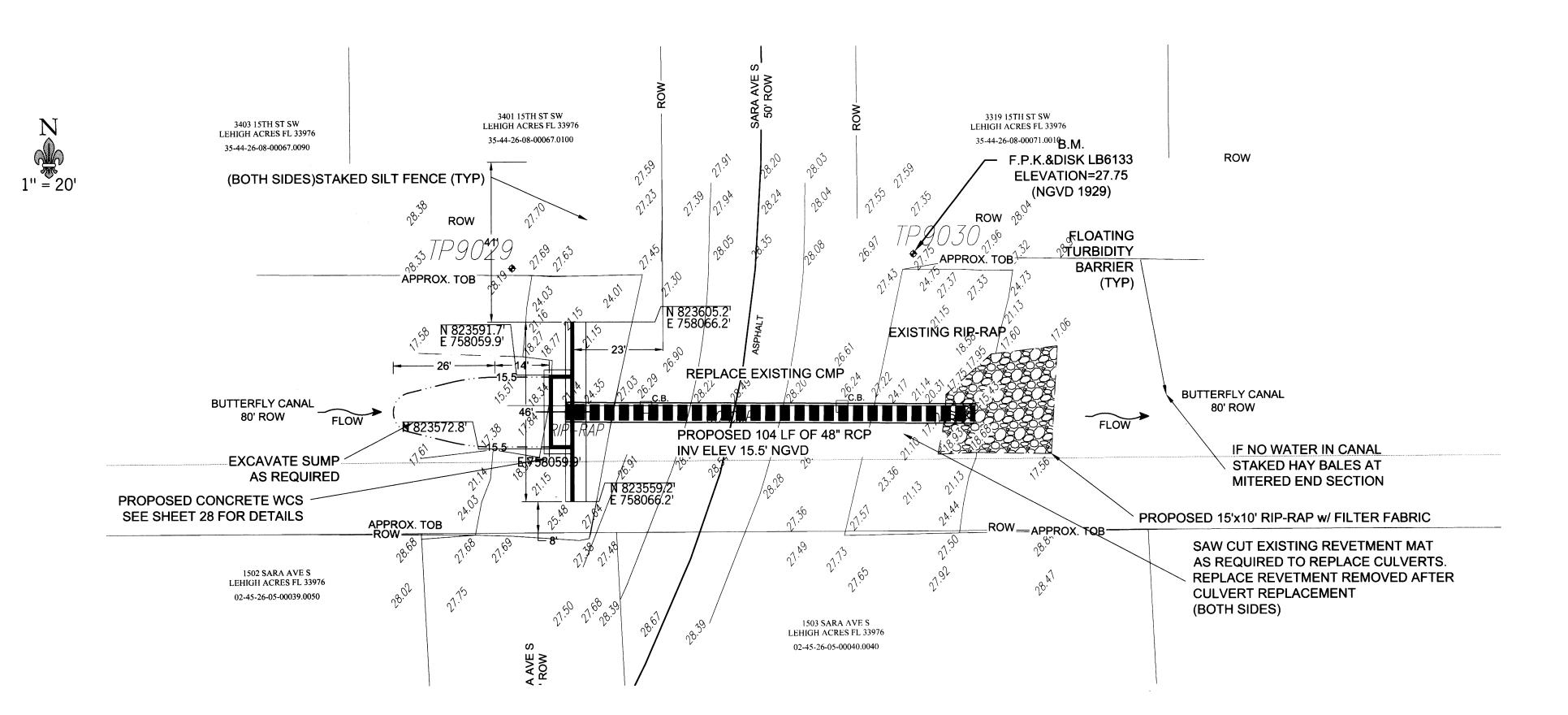
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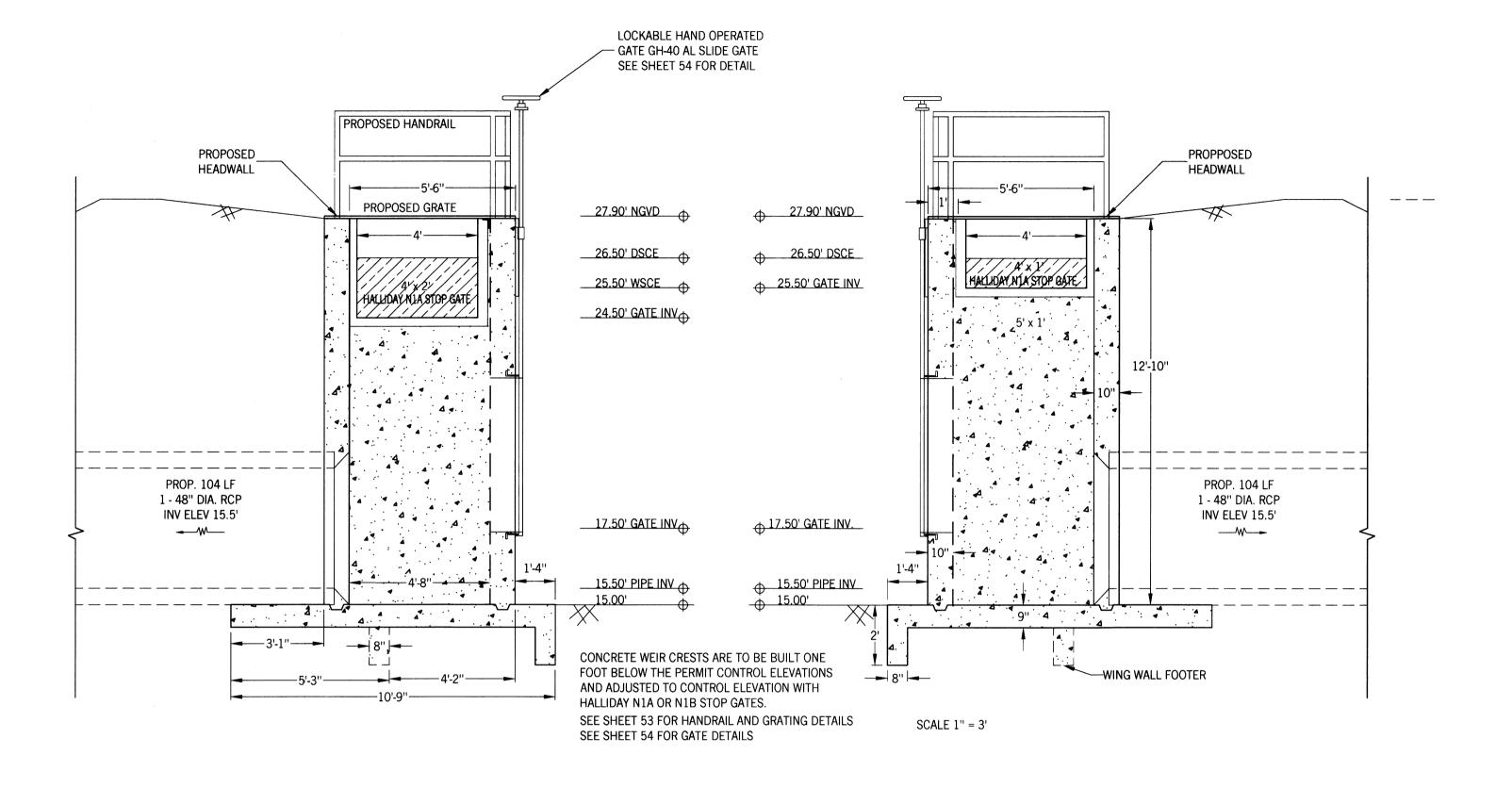
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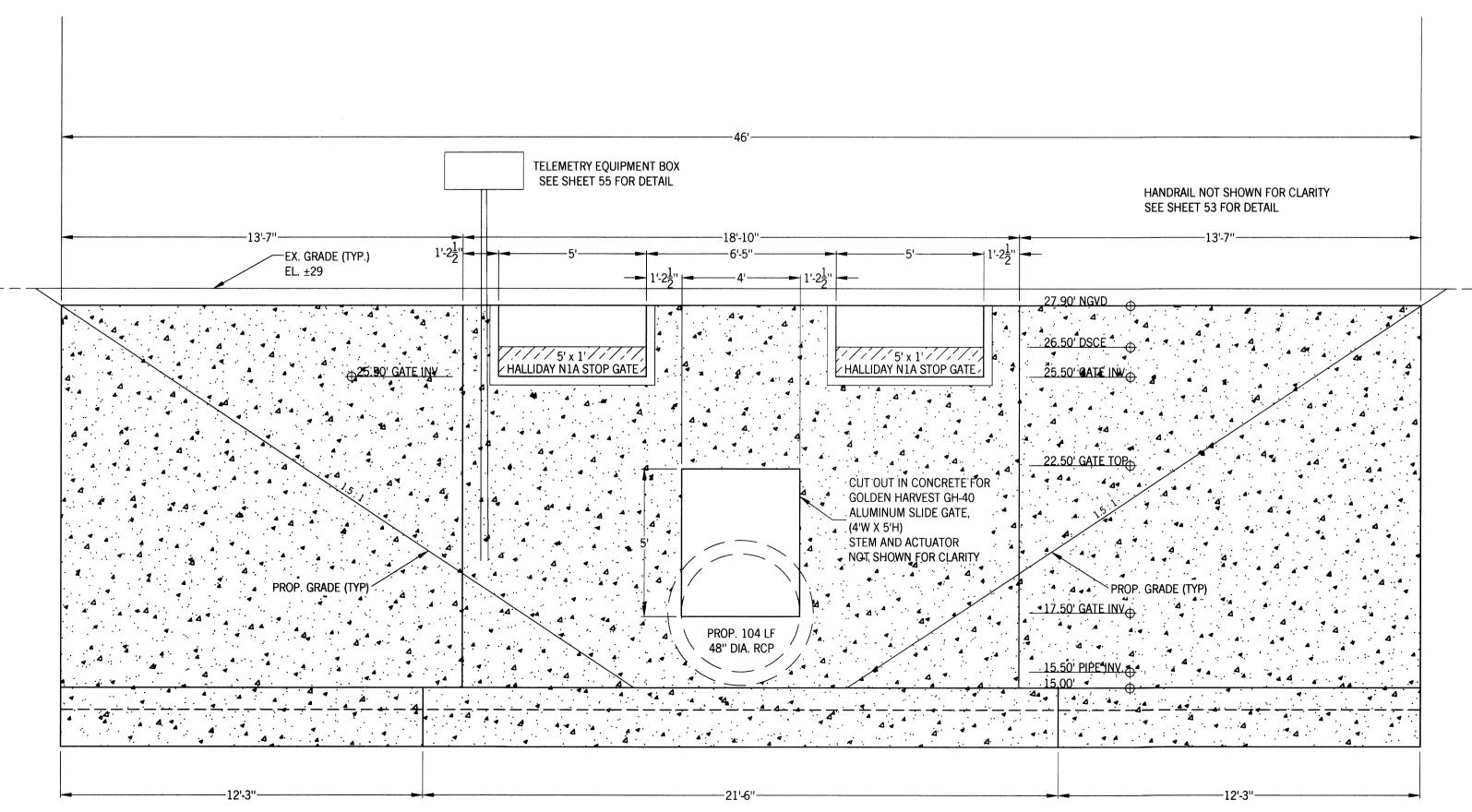
SCALE 1" = 3'





SHEET 27/56 DRAWN BY: RHT CHECKED BY: APPROVED BY: RHT DATE: SEPT 2015 PROJECT (A.B.S.O.R.B.) **AND PLAN VIEW** 14 AERIAL LEHIGH WEIRS STRUCTURE SOUTHWEST





B. <u>ج</u> (A.B. **PROJECT** SIDE AND SOUTHWEST LEHIGH WEIRS 14 FRONT

SHEET 28/56

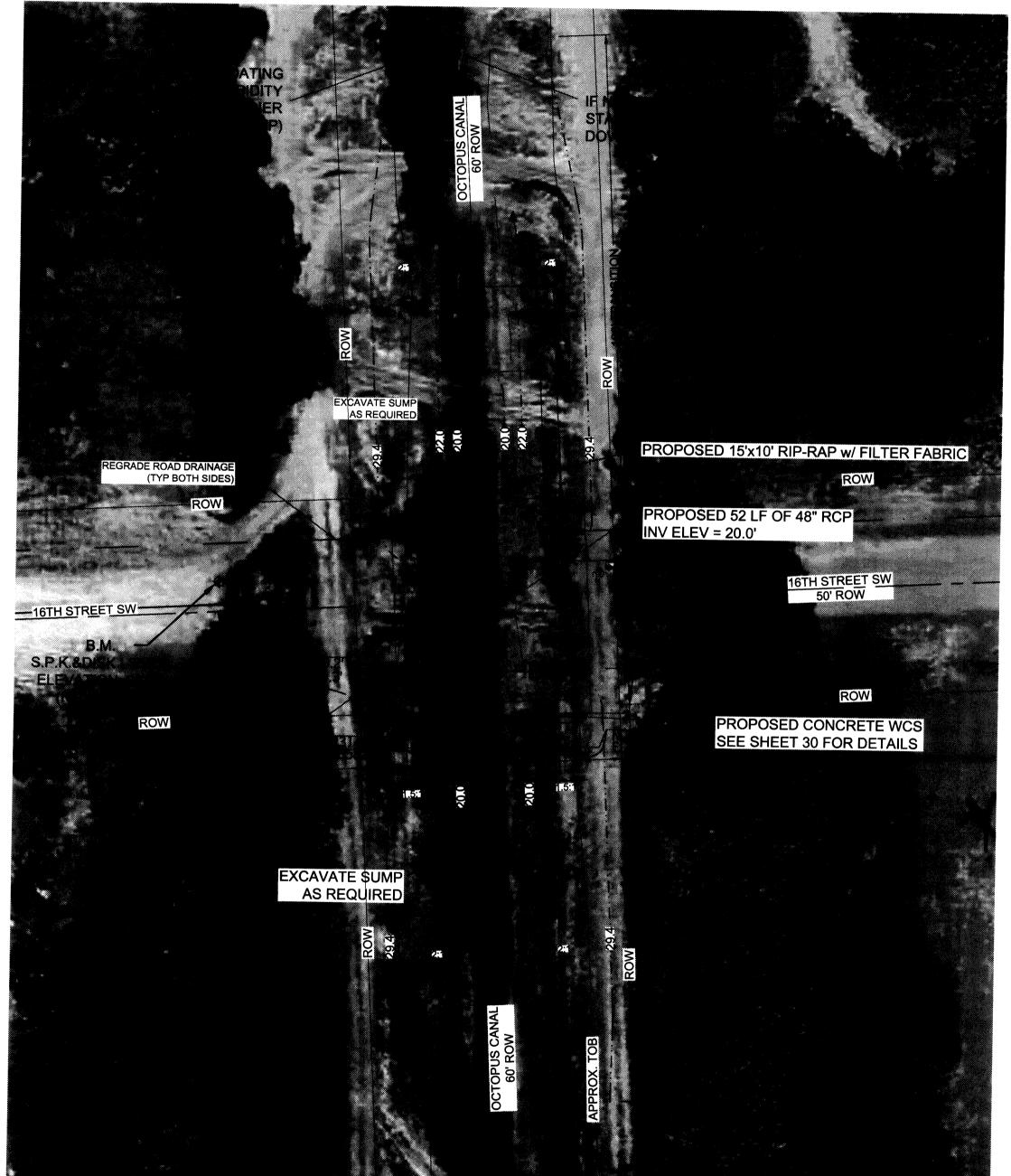
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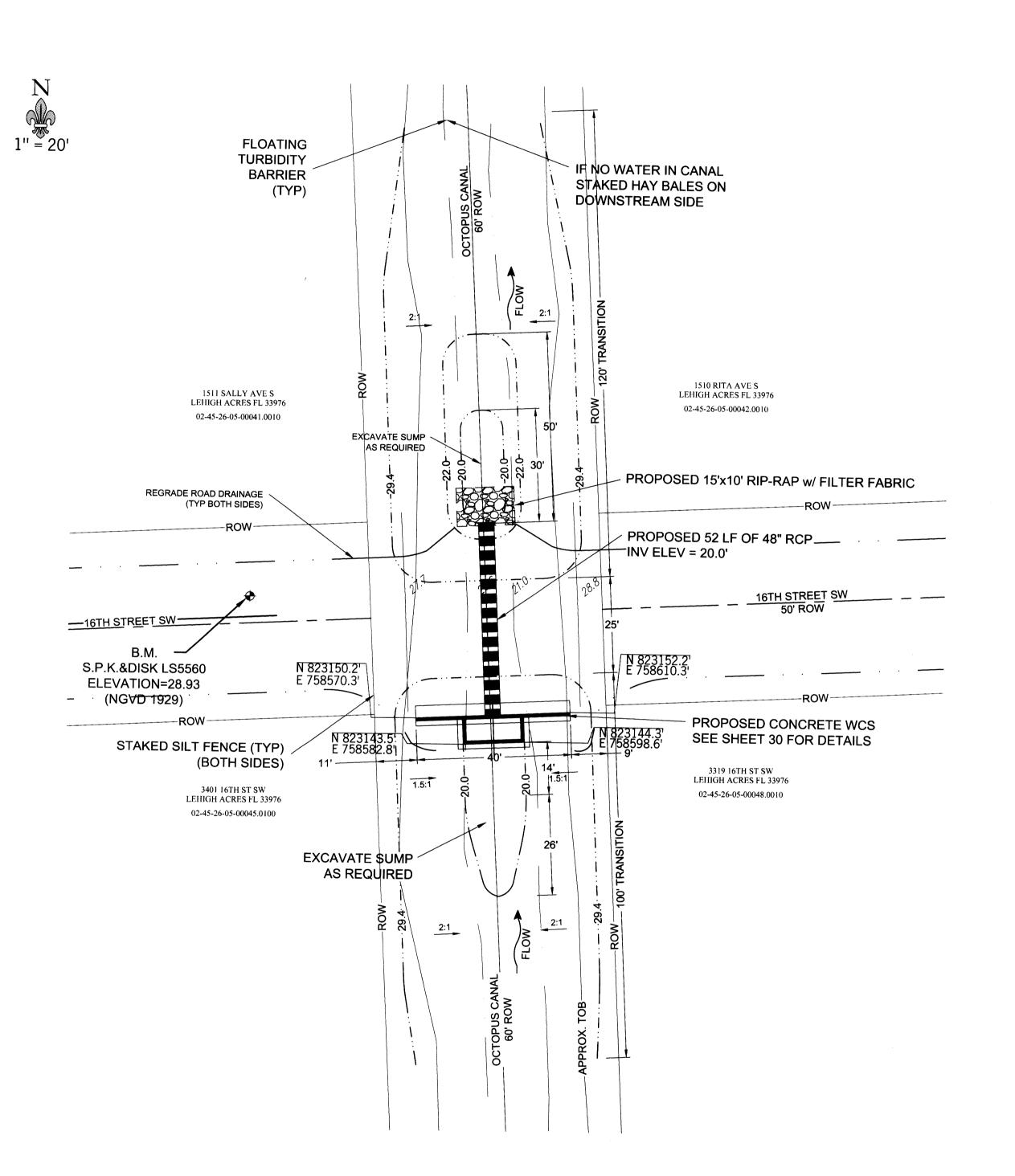
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APPROVED BY: RHT DATE: SEPT 2015

SCALE 1" = 3'







SHEET 29/56

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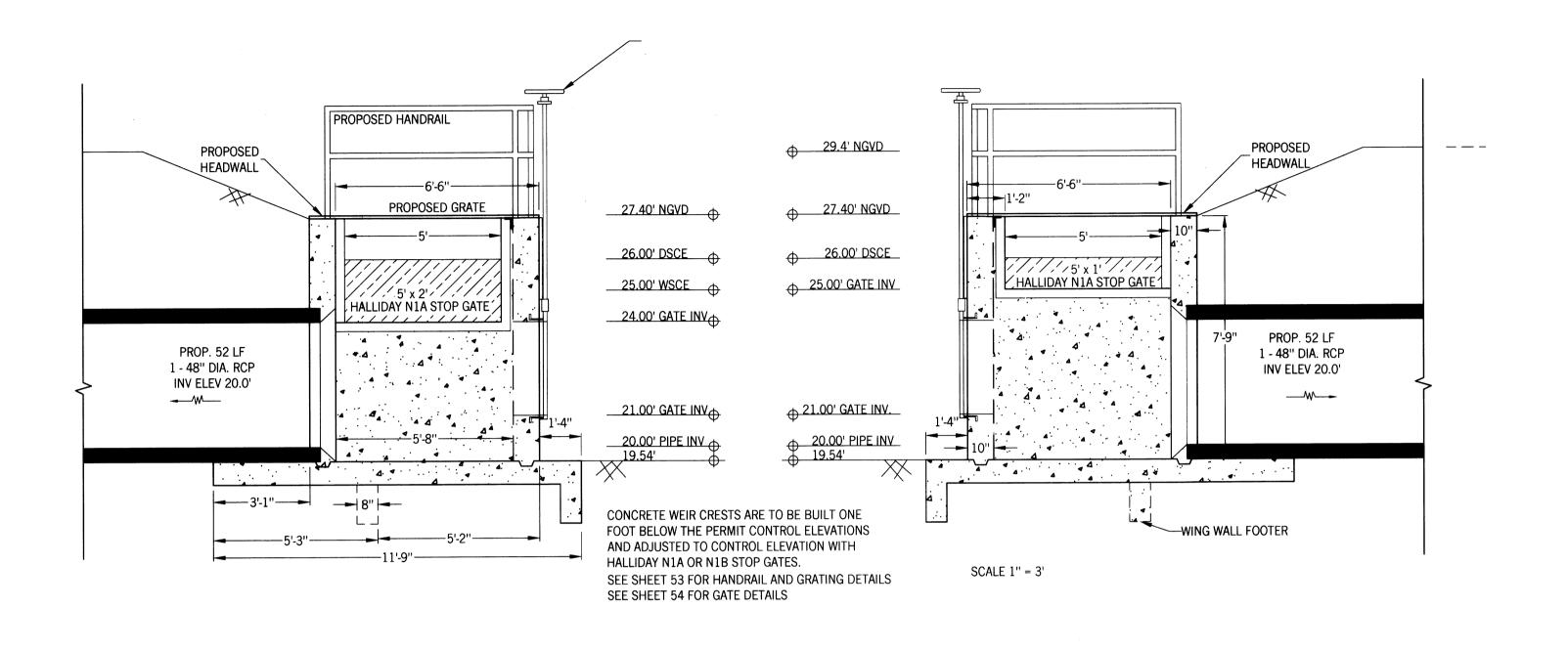
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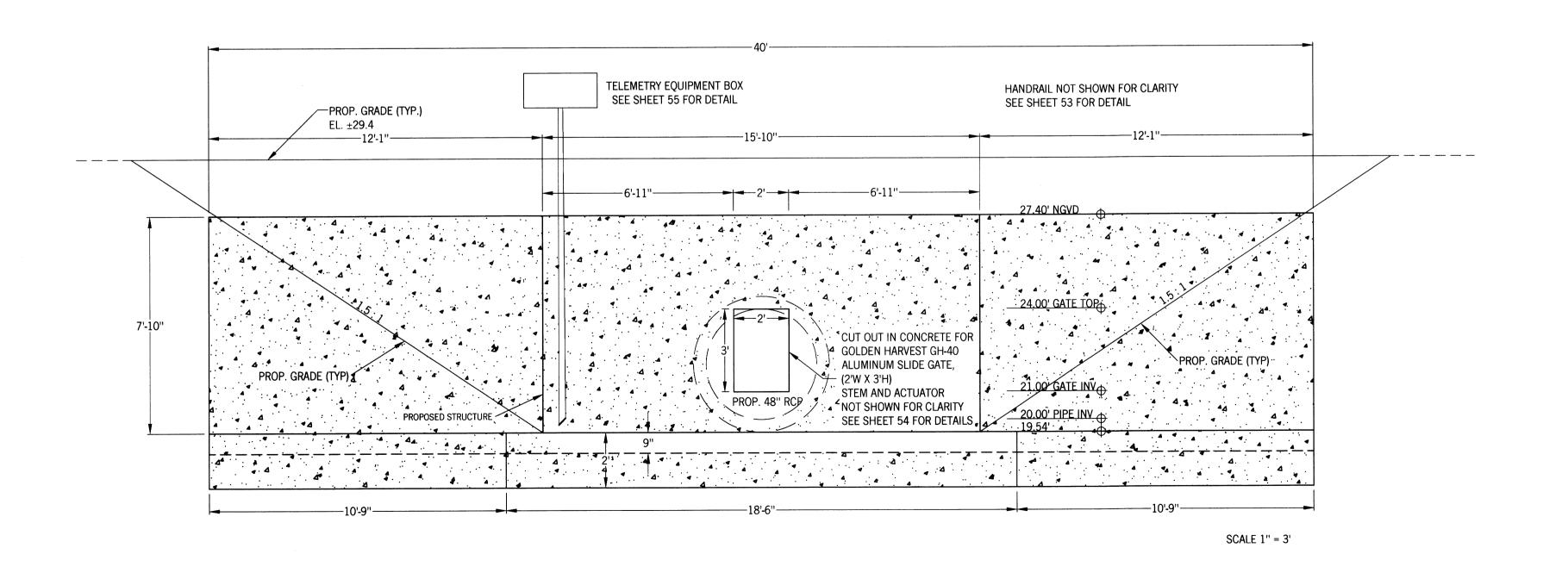
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SEPT 2015

.S.O.R.B.) (A.B. AND PLAN VIEW **PROJECT** LEHIGH ACRES - M STRUCTURE 15 AERIAL SOUTHWEST LEHIGH WEIRS OCTOPUS CANAL

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PROJECT (A.B.S.O.R.B.) SIDE VIEWS AND 15 FRONT SOUTHWEST LEHIGH WEIRS STRUCTURE

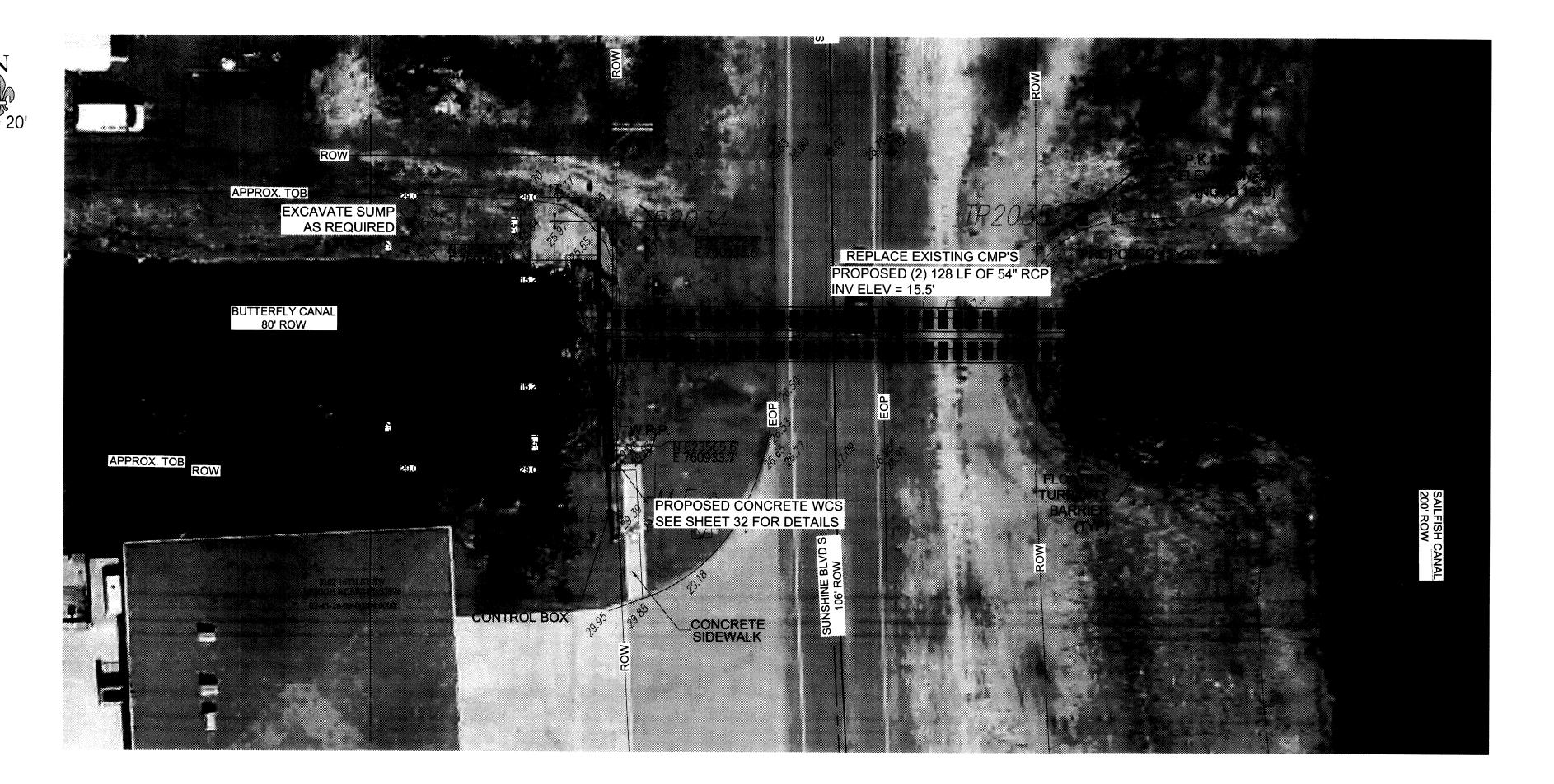
SHEET 30/56

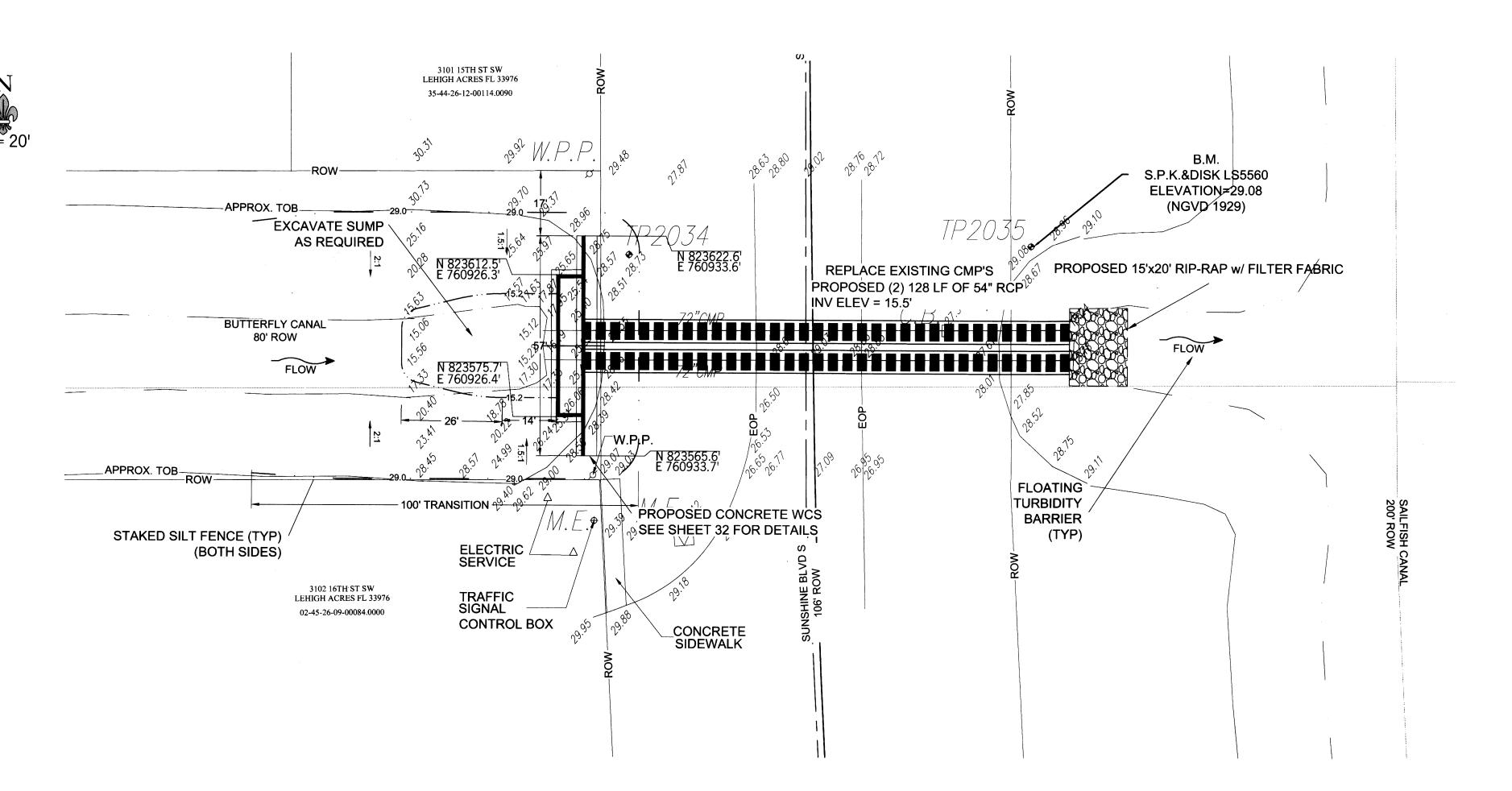
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RHT

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SEPT 2015

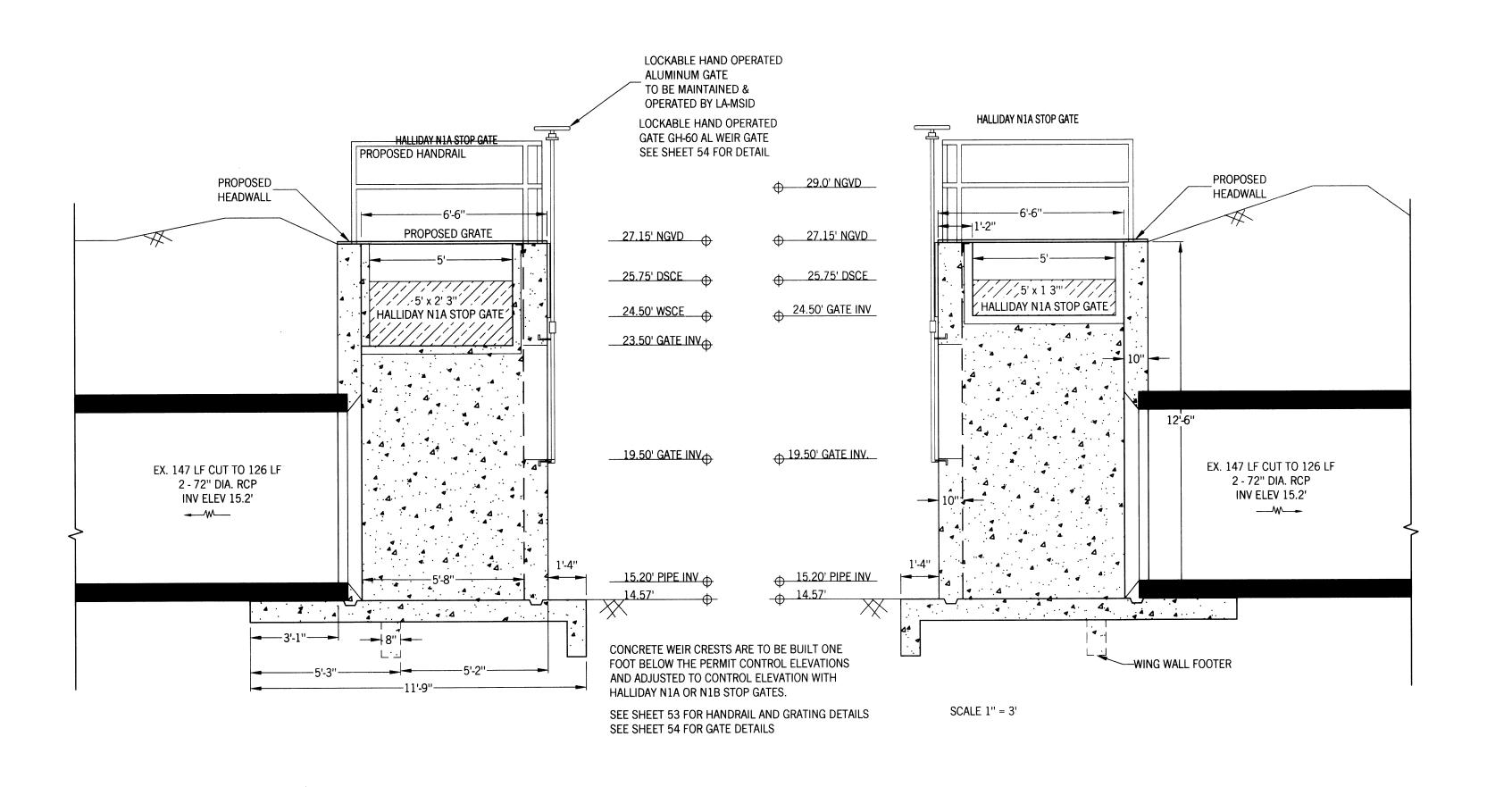


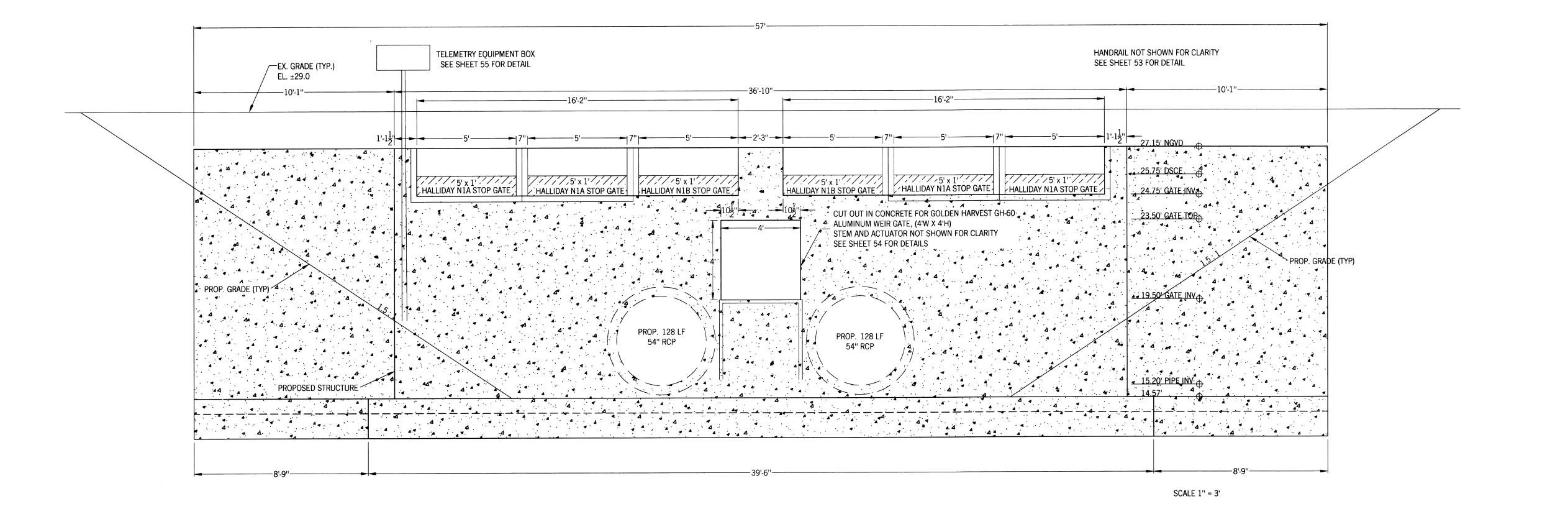


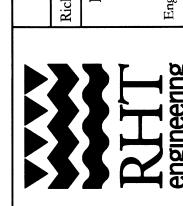
CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 SOUTHWEST LEHIGH WEIRS PROJECT (A.B.S.O.R.B.) AND PLAN VIEW 16 AERIAL STRUCTURE CLIENT:

SHEET 31/56

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DATE: SEPT 2015 O.R.B.) IMPROVEMENT DISTRICT PROJECT (A.B. SIDE AND SOUTHWEST LEHIGH WEIRS FRONT

SHEET 32/56

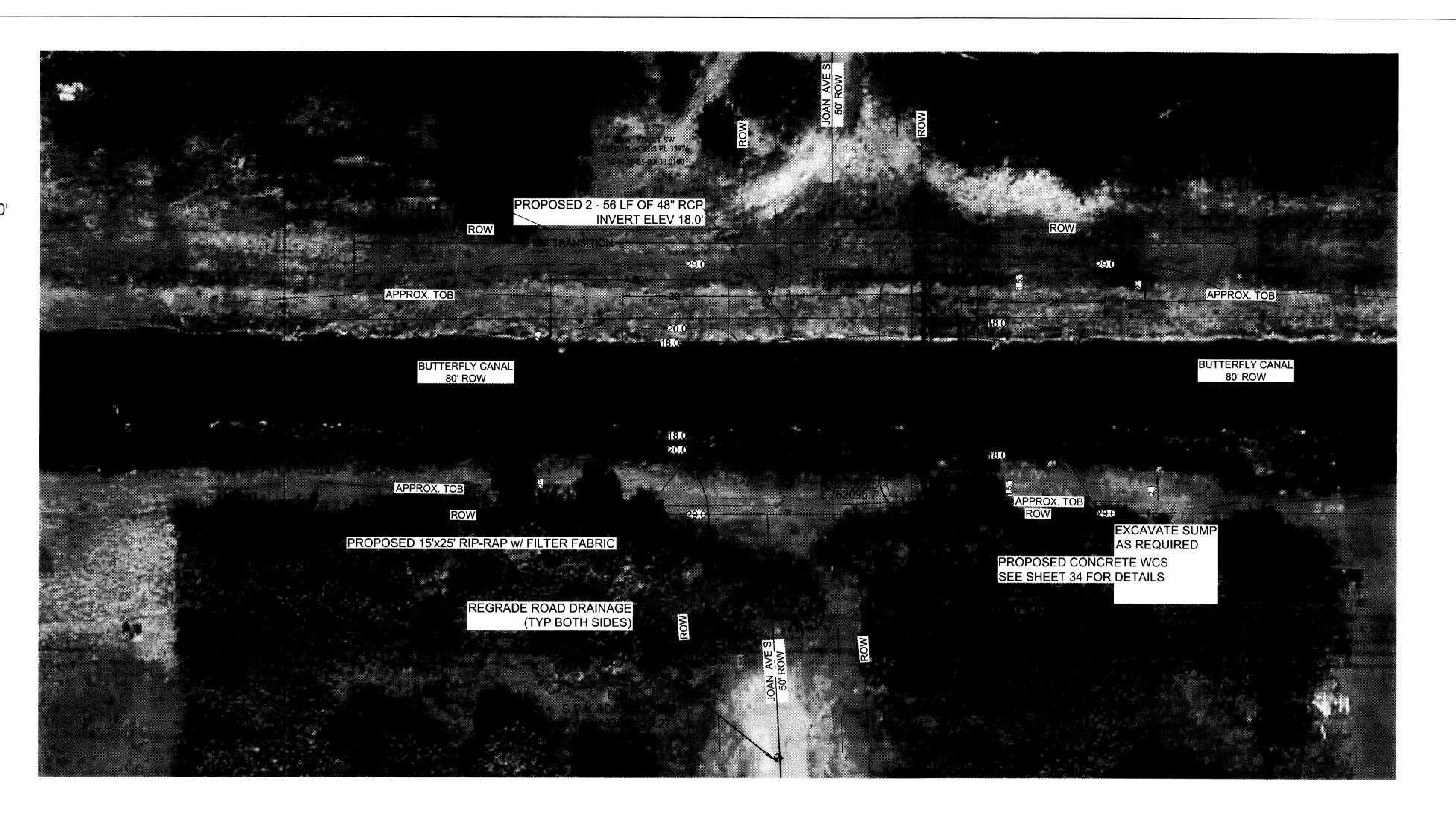
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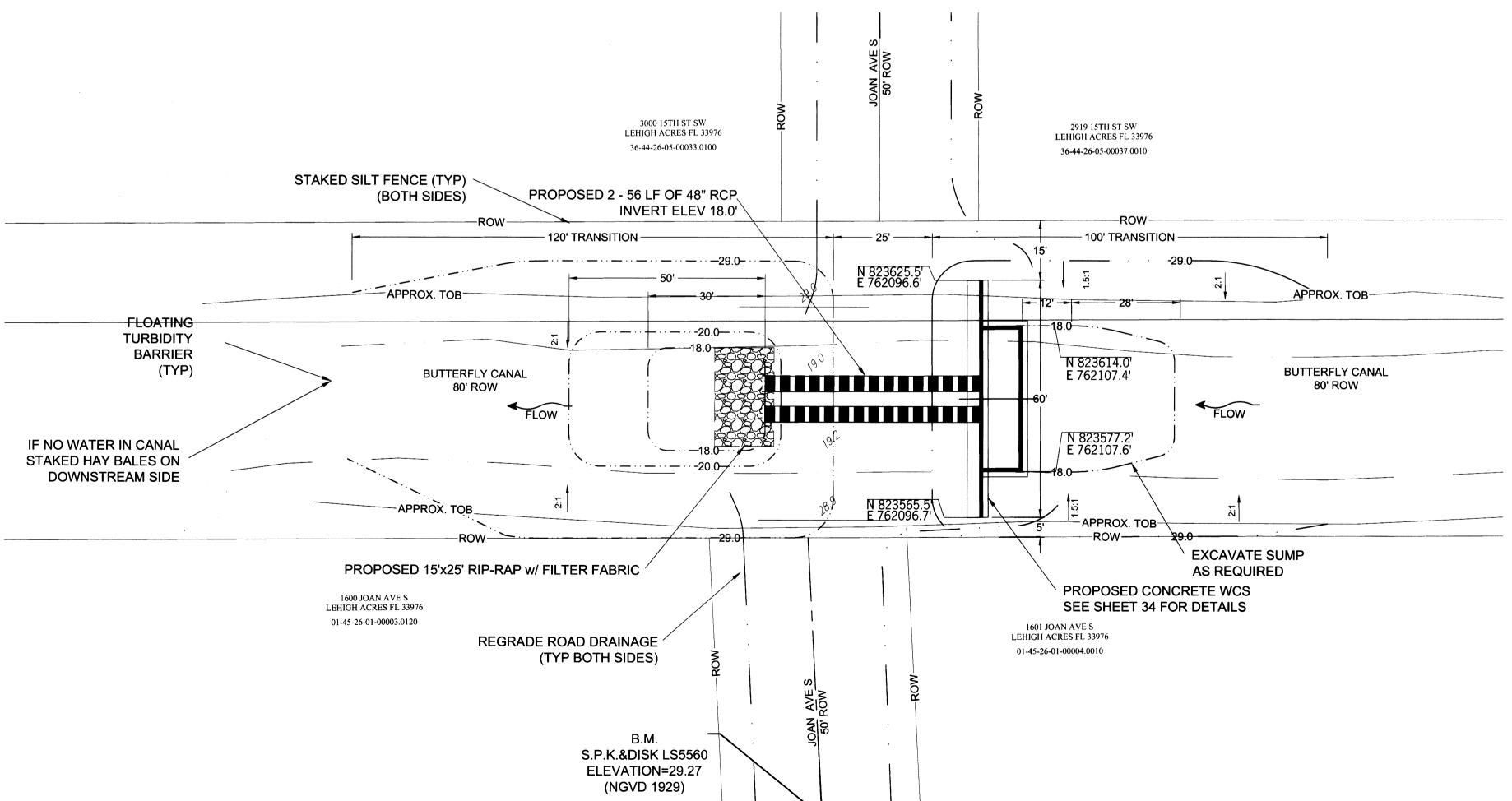
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STRUCTURE





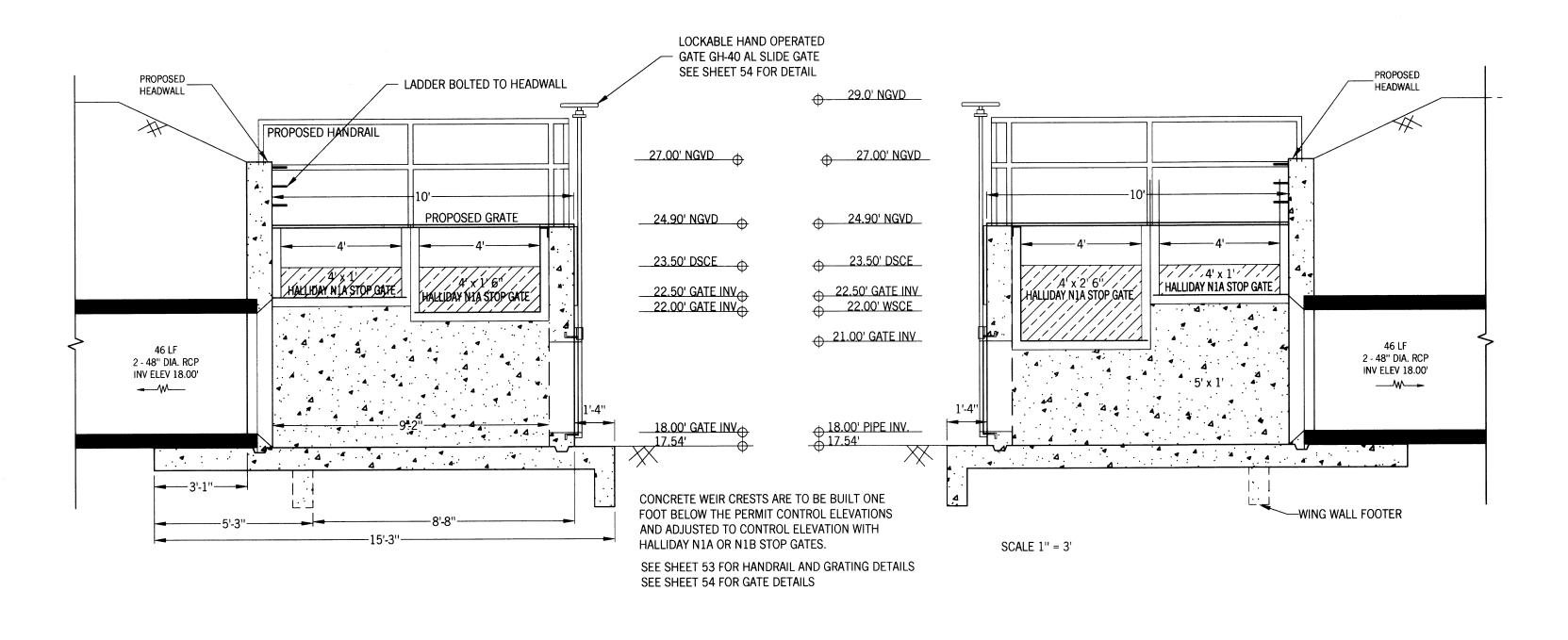
PROJECT (A.B.S.O.R.B.) **AND PLAN VIEW** SOUTHWEST LEHIGH WEIRS 17 AERIAL STRUCTURE BUTTERFLY CANAL

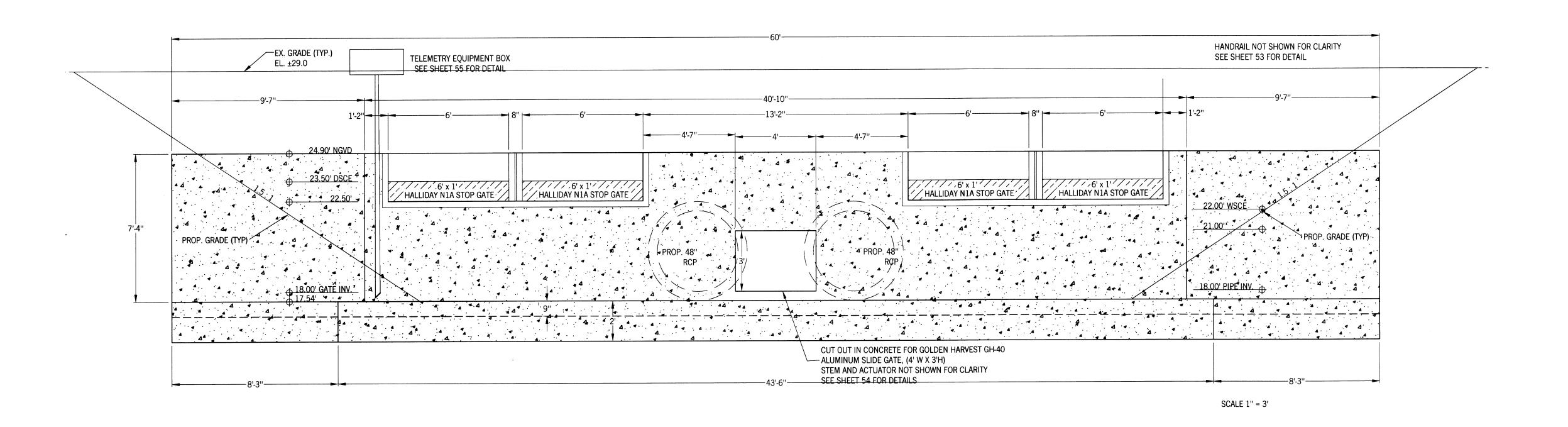
SHEET 33/56

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APPROVED BY: RHT DATE: SEPT 2015





.S.O.R.B.) PROJECT (A.B. SIDE AND SOUTHWEST LEHIGH WEIRS 17 FRONT STRUCTURE CLIENT:

SHEET 34/56

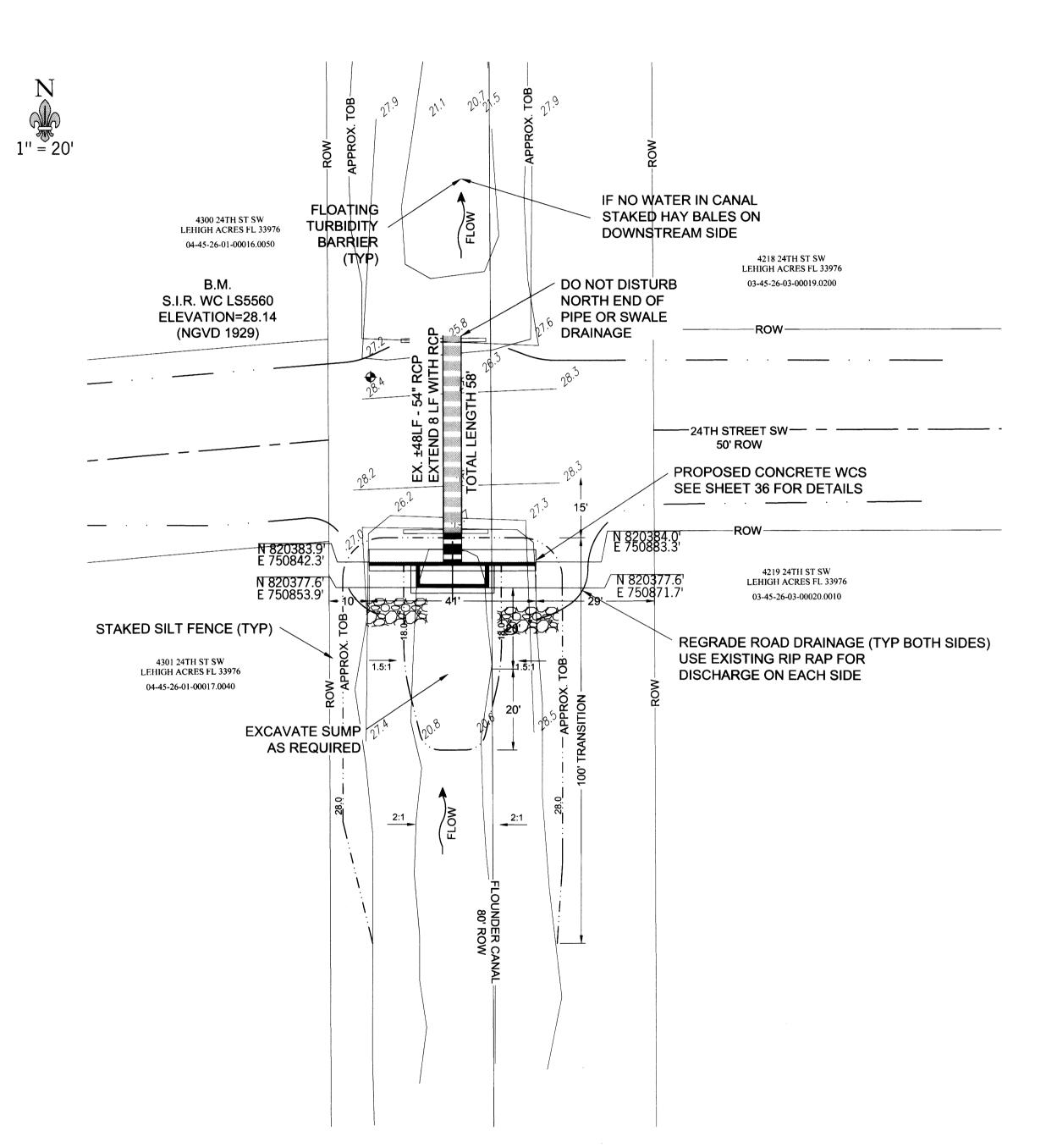
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SEPT 2015





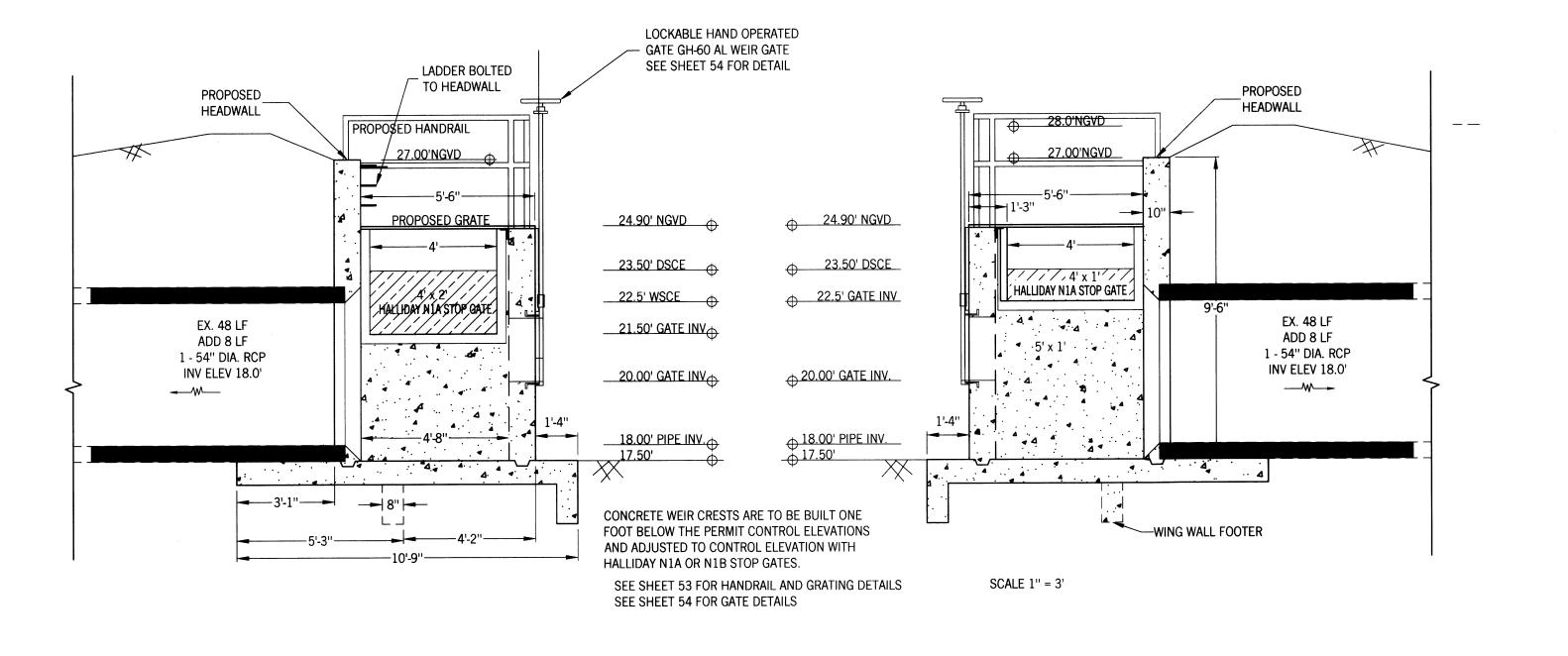
APPROVED BY: DATE: **SEPT 2015** (A.B **PROJEC** SOUTHWEST LEHIGH WEIR STRUCTURE 18 AERIA FLOUNDER CANAL

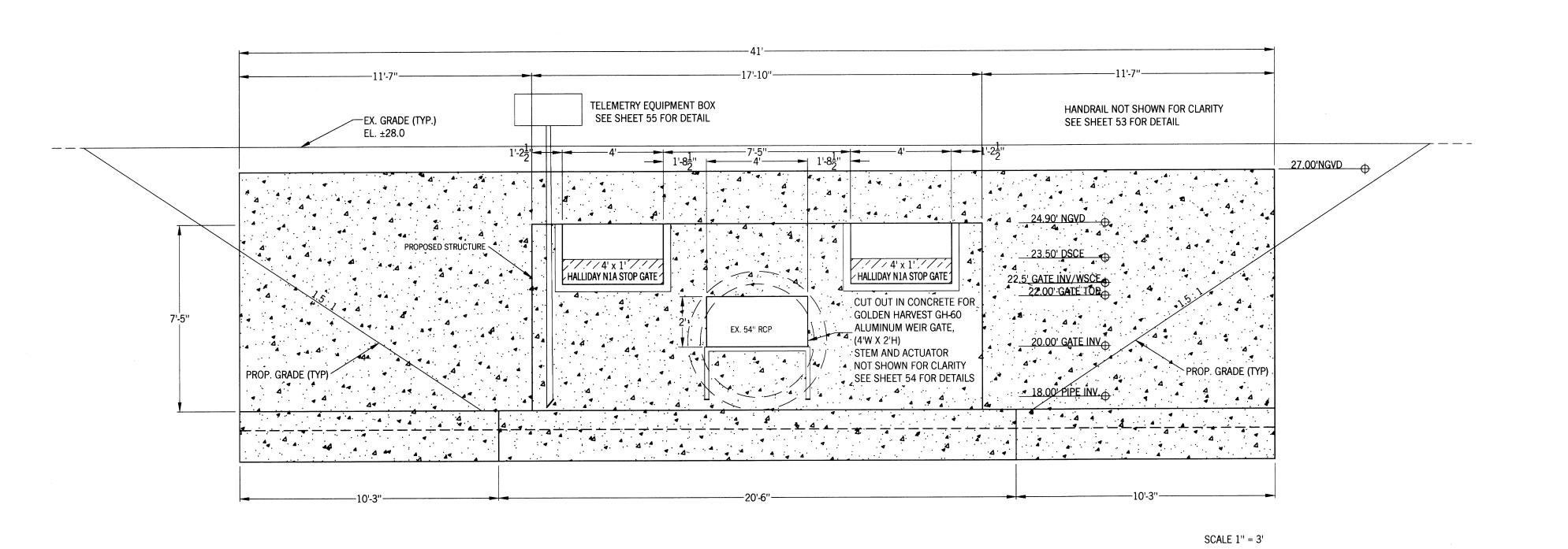
SHEET 35/56

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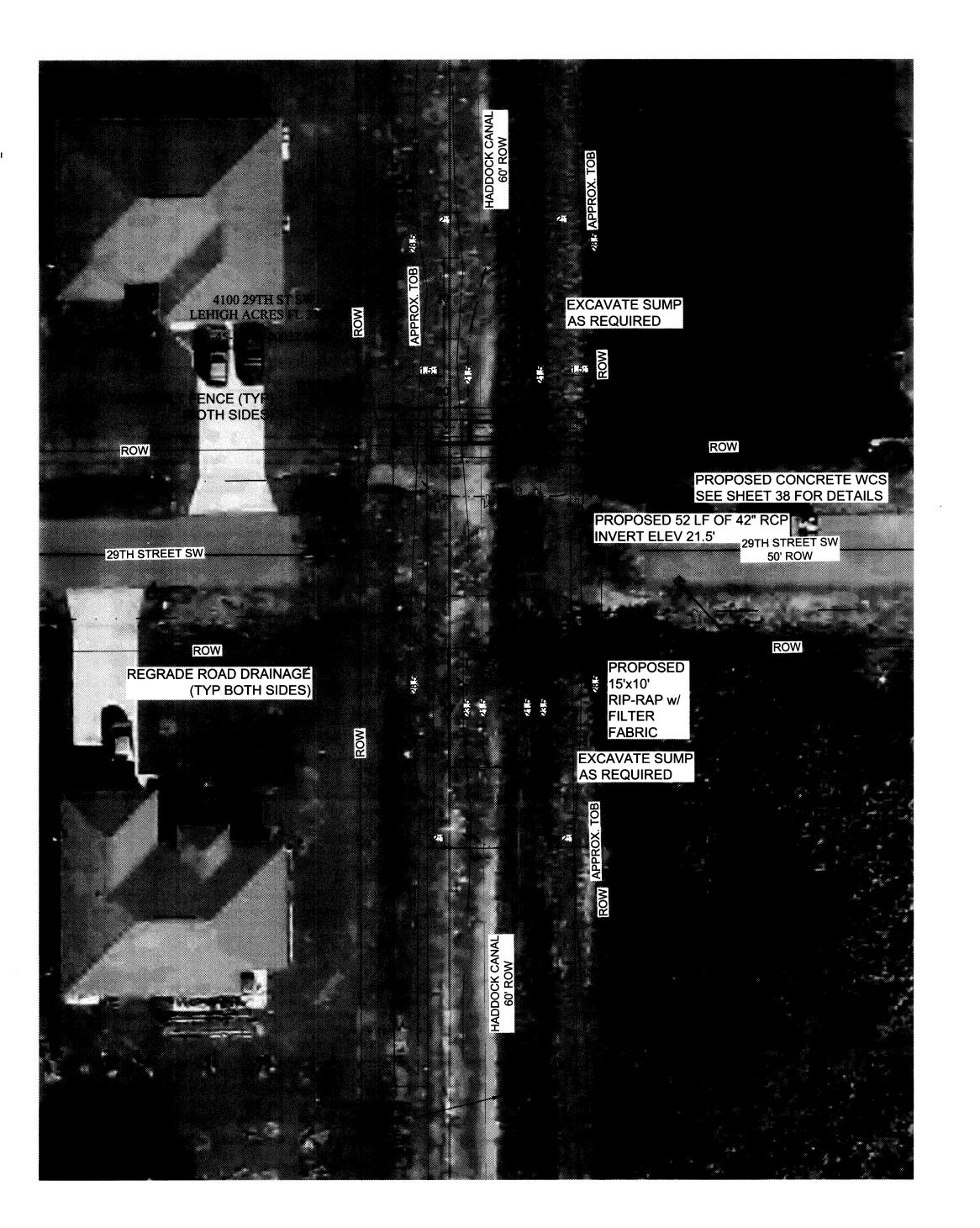
DATE: SEPT 2015 S.O.R.B. $\mathbf{\Omega}$ Ä. VIEWS **PROJECT** SIDE AND SOUTHWEST LEHIGH WEIRS 18 FRONT STRUCTURE

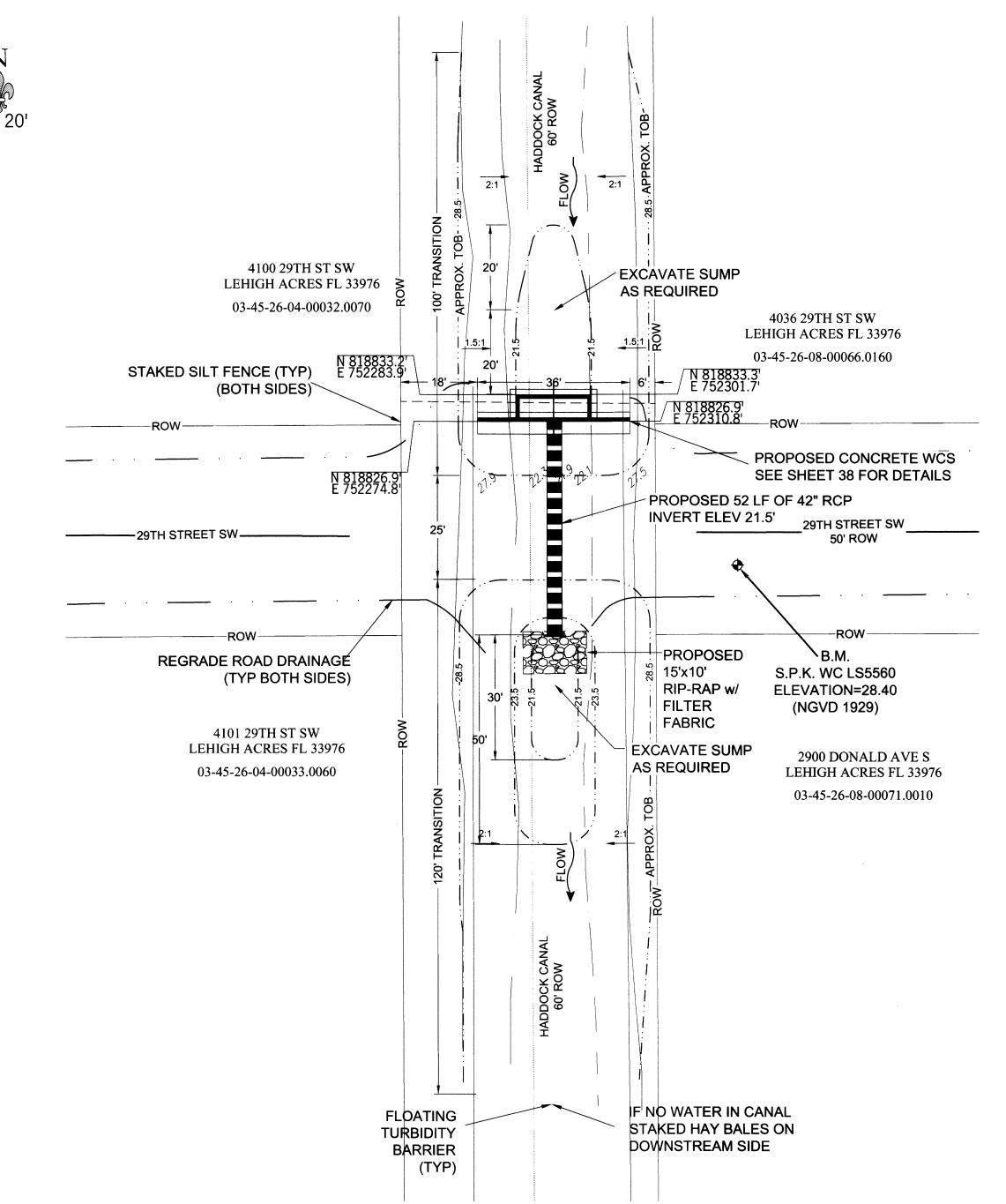
SHEET 36/56

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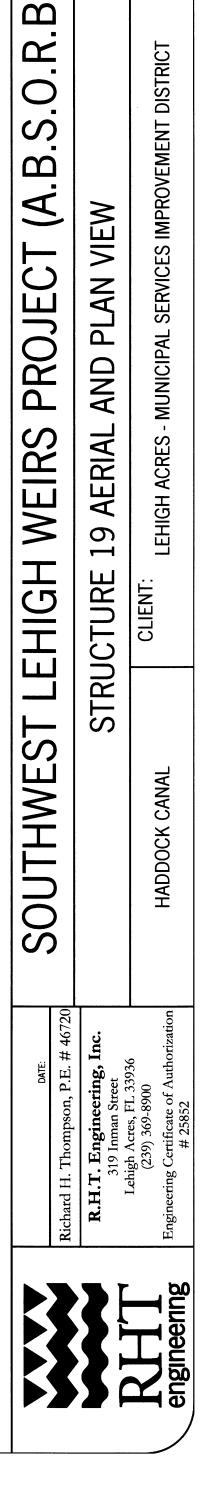
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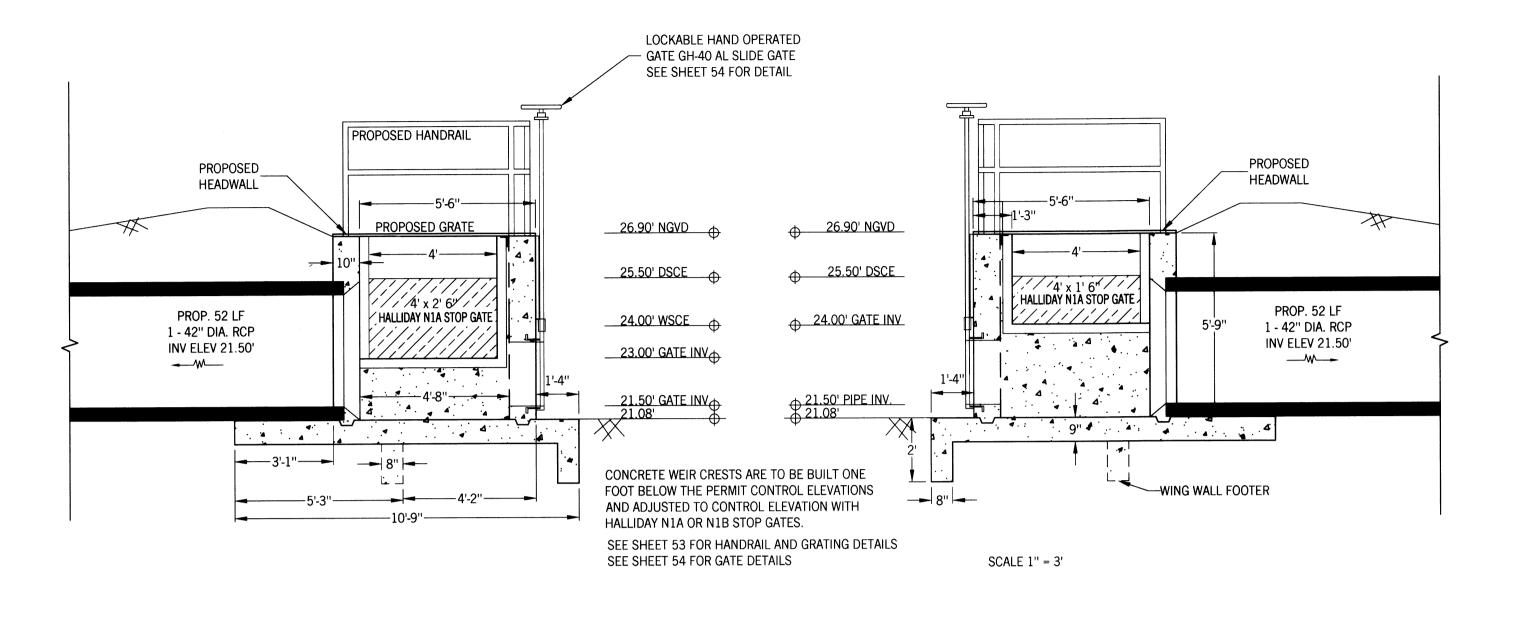
SHEET 37/56

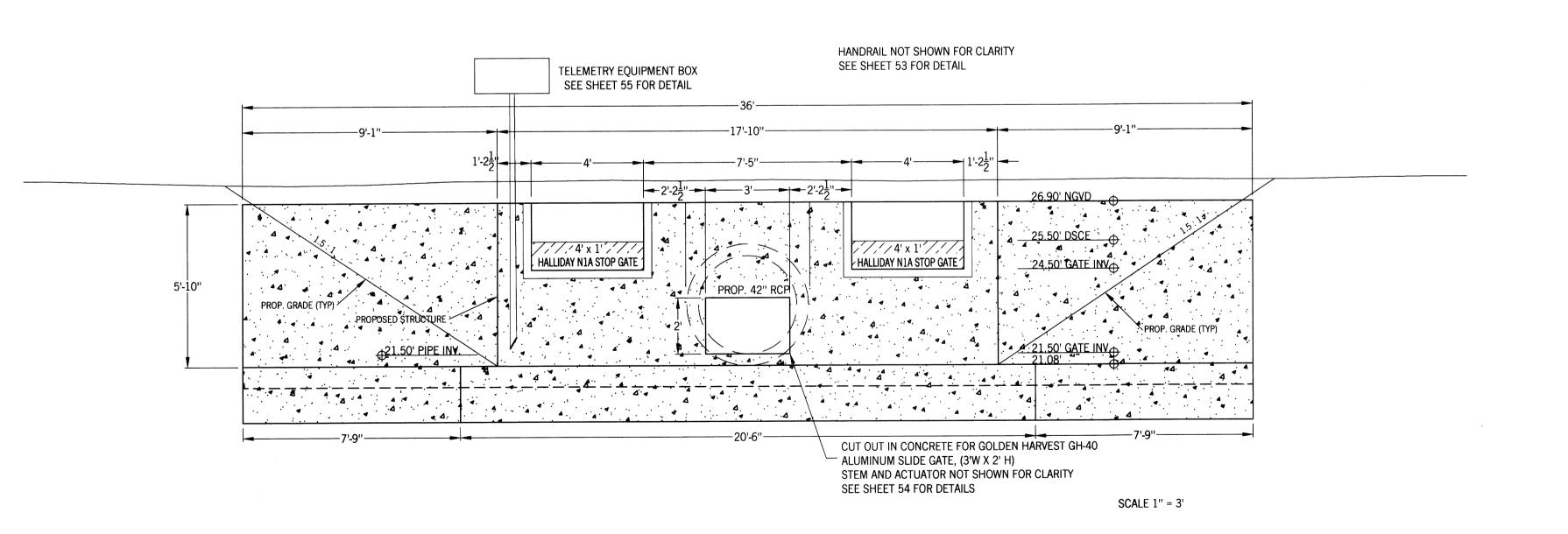
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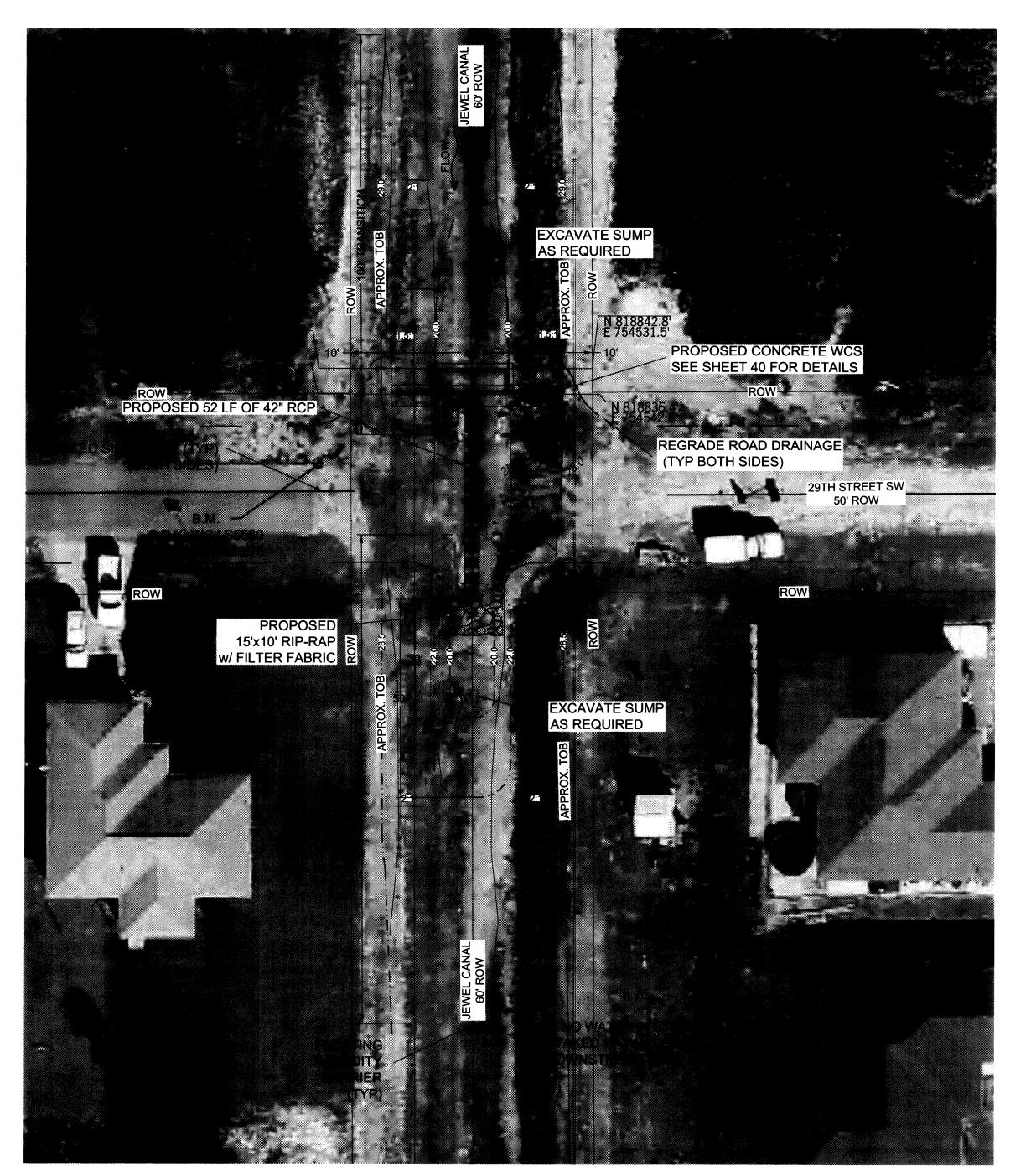
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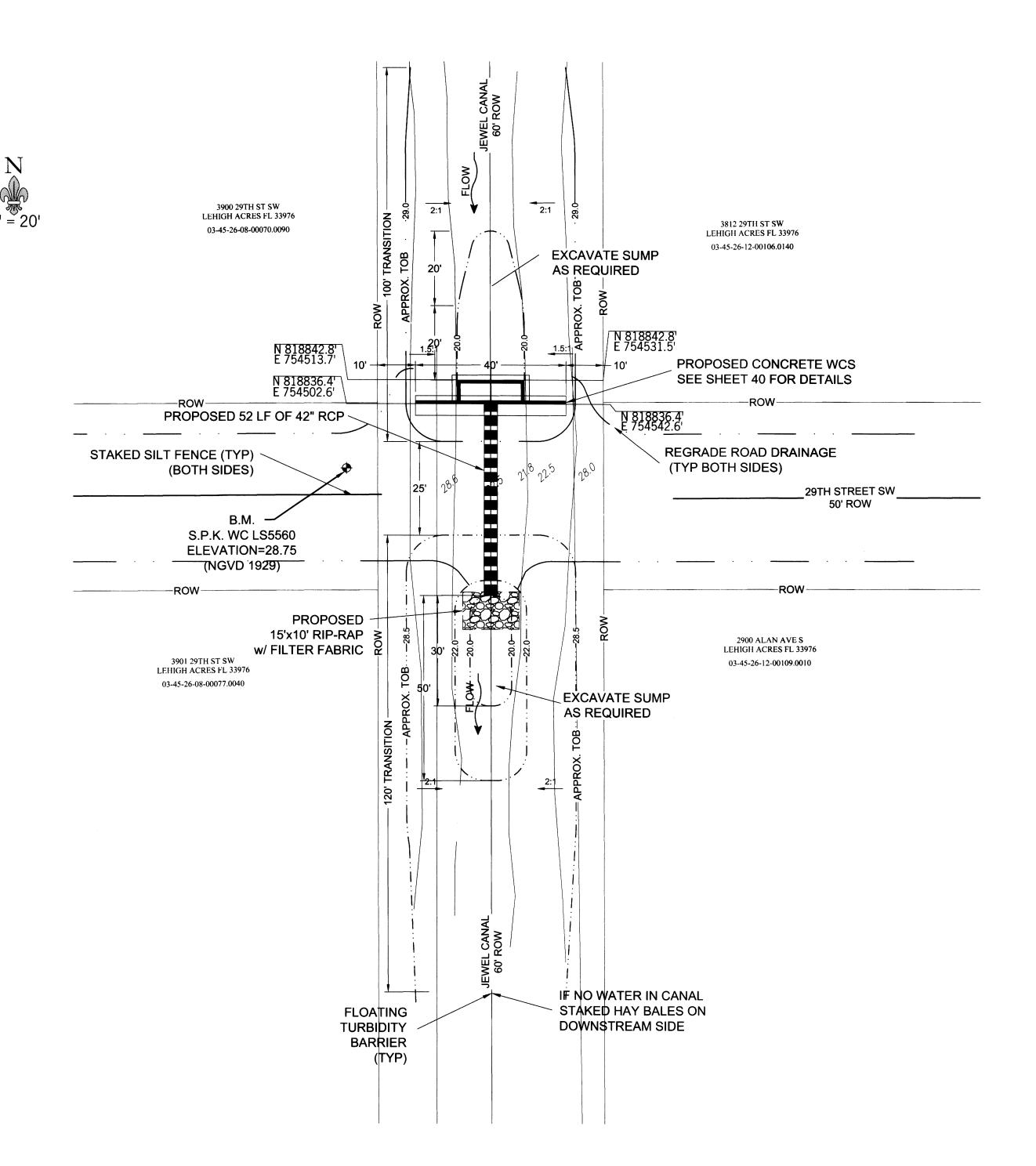
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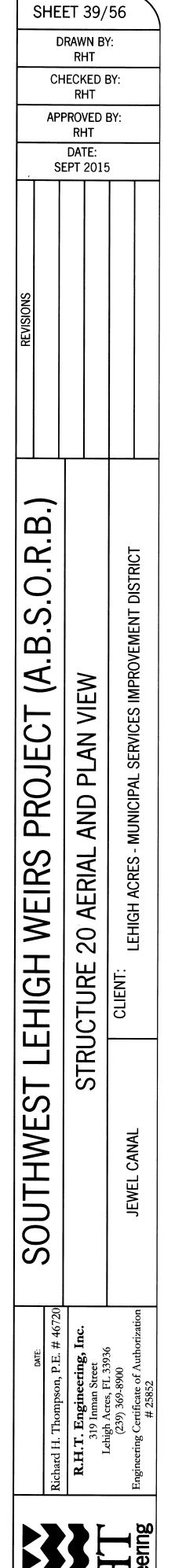


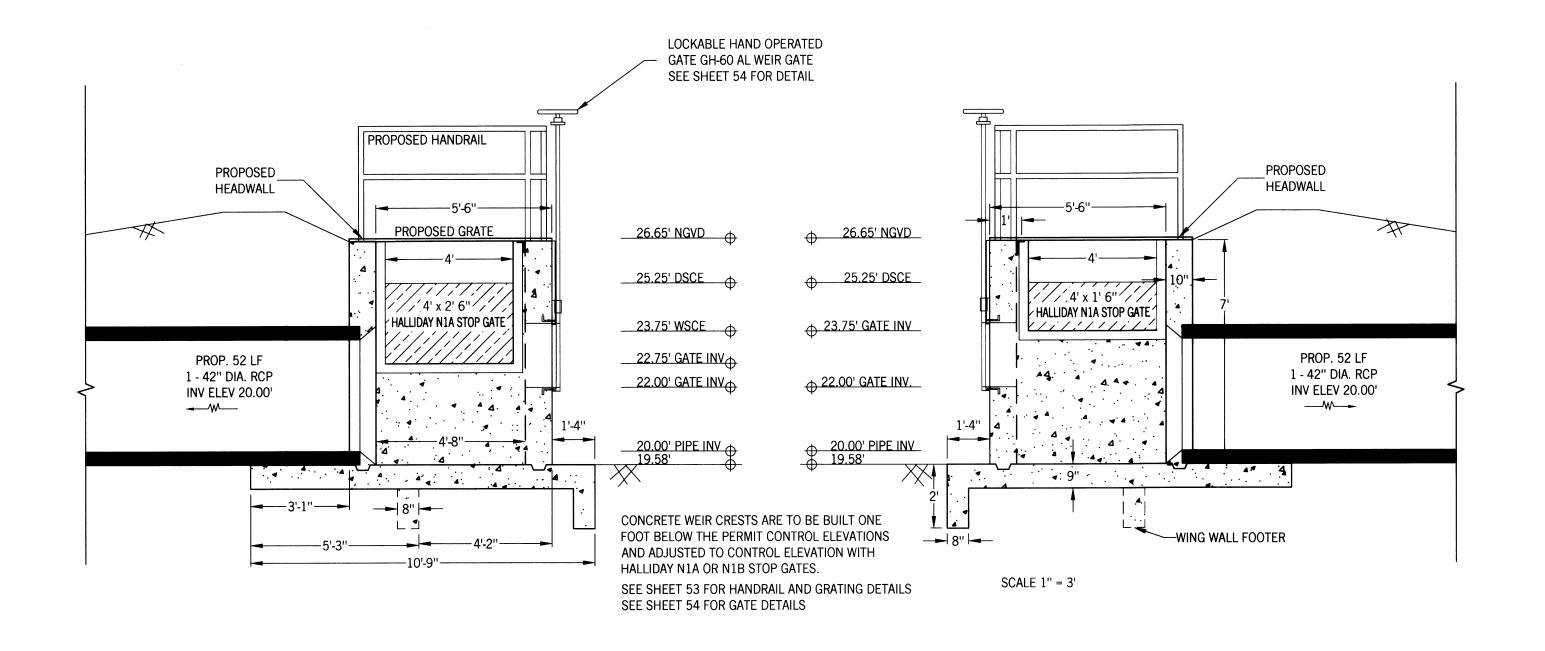
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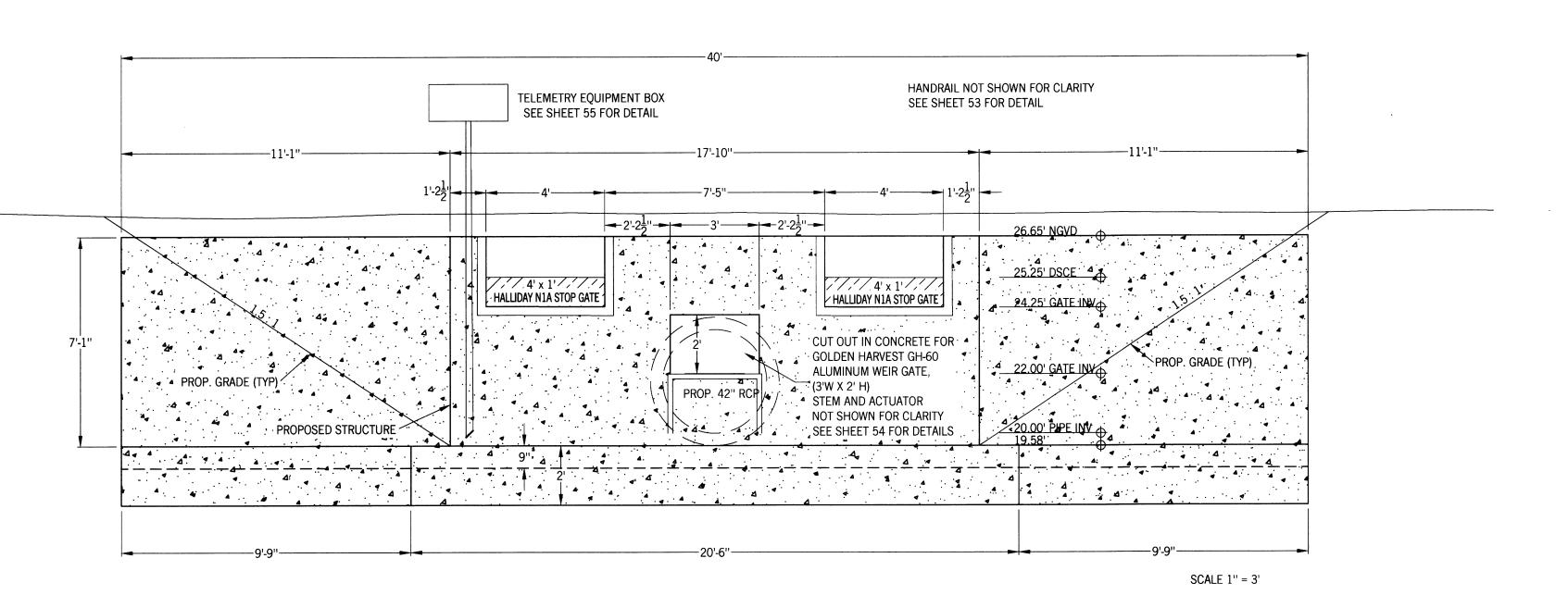












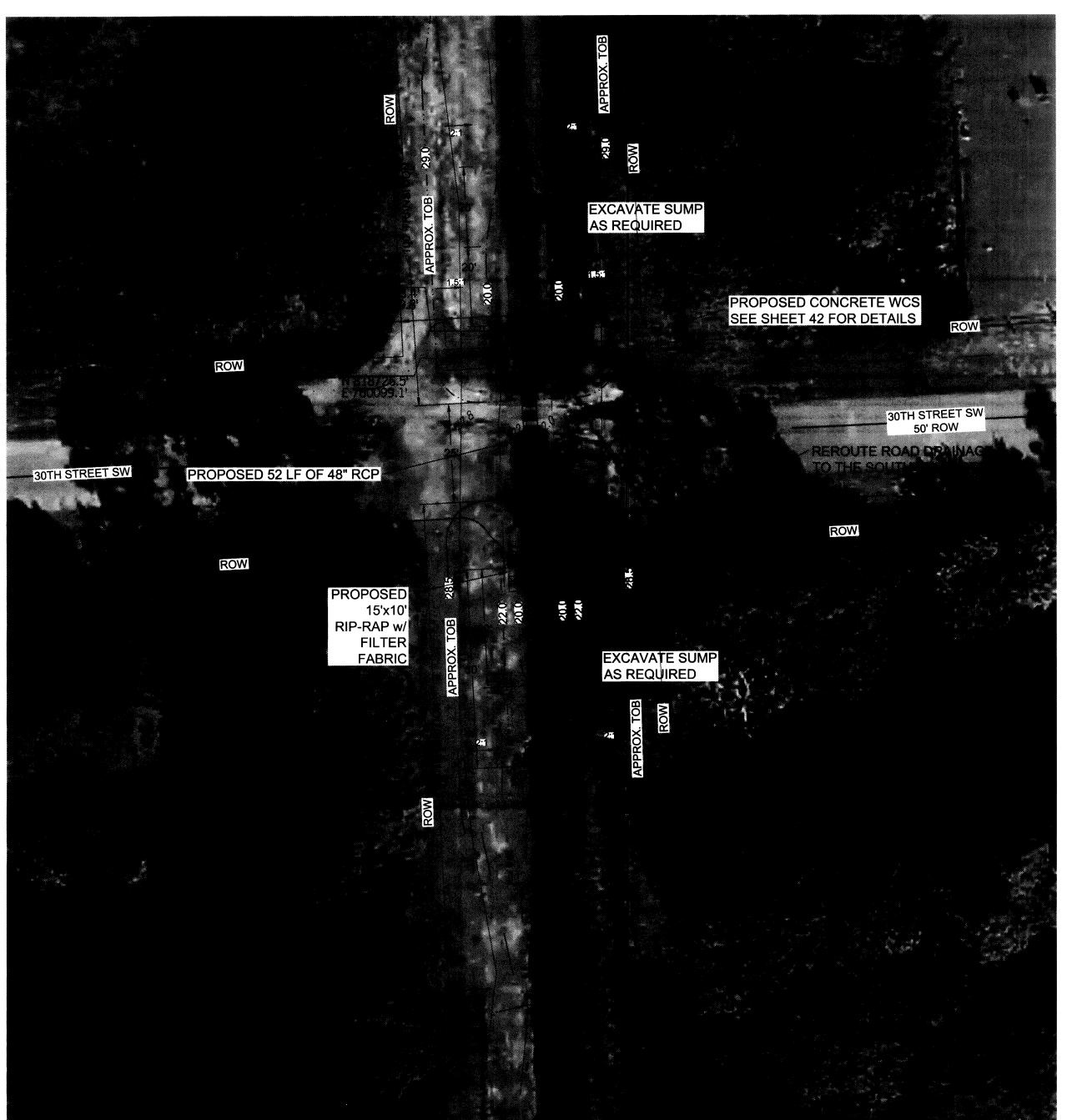
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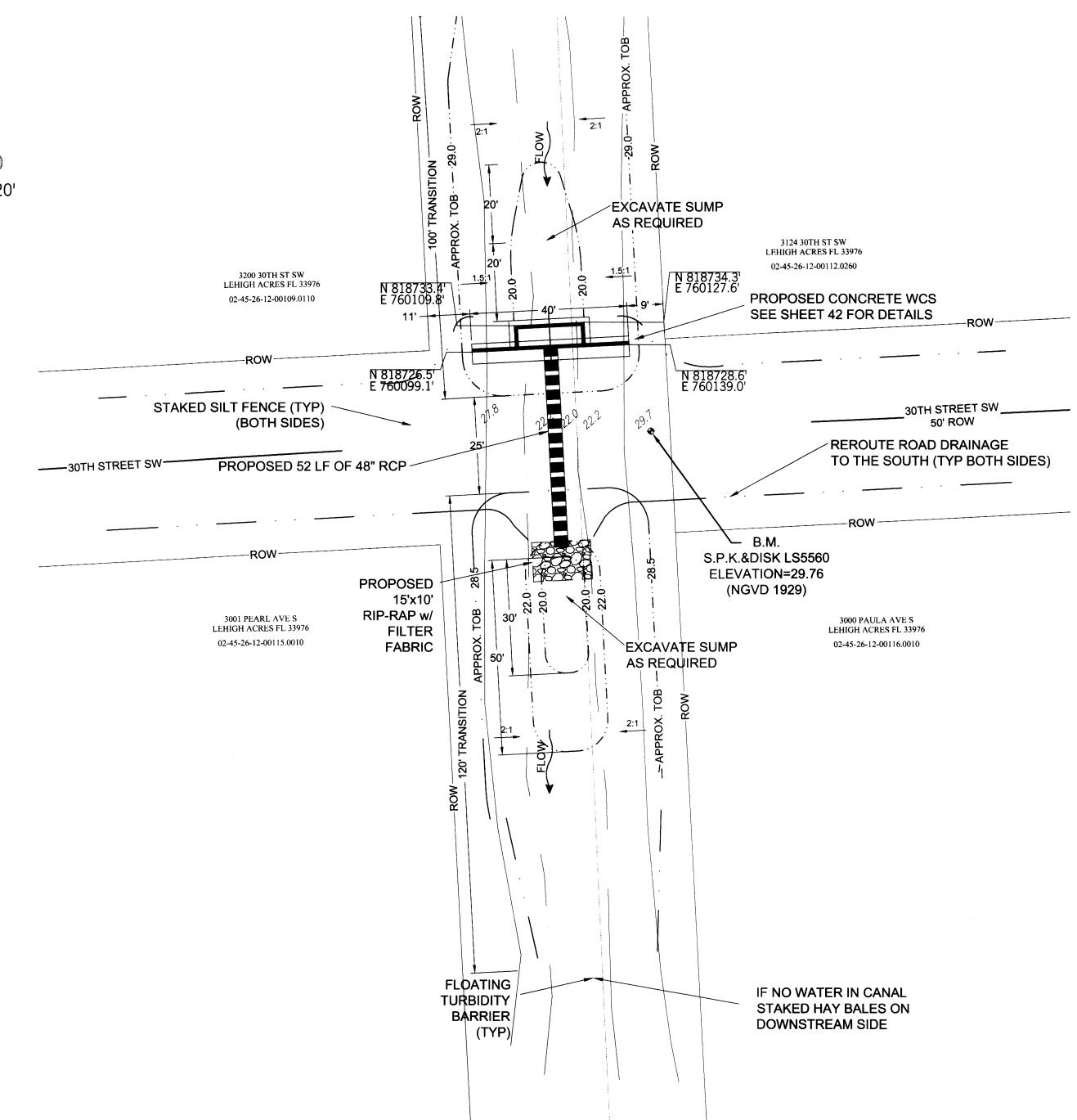
Richard H. Thompson, P.E. # 46

R.H.T. Engineering, Inc. 319 Inman Street
Lehigh Acres, FL 33936
(239) 369-8900

Engineering Certificate of Authorizat









B.) 3 B. 8 VIEW PROJECT PLAN AND SOUTHWEST LEHIGH WEIRS STRUCTURE 21 AERI CLAM CANAL

SHEET 41/56

Drawn by: Rht

CHECKED BY: RHT

APPROVED BY: RHT DATE: SEPT 2015

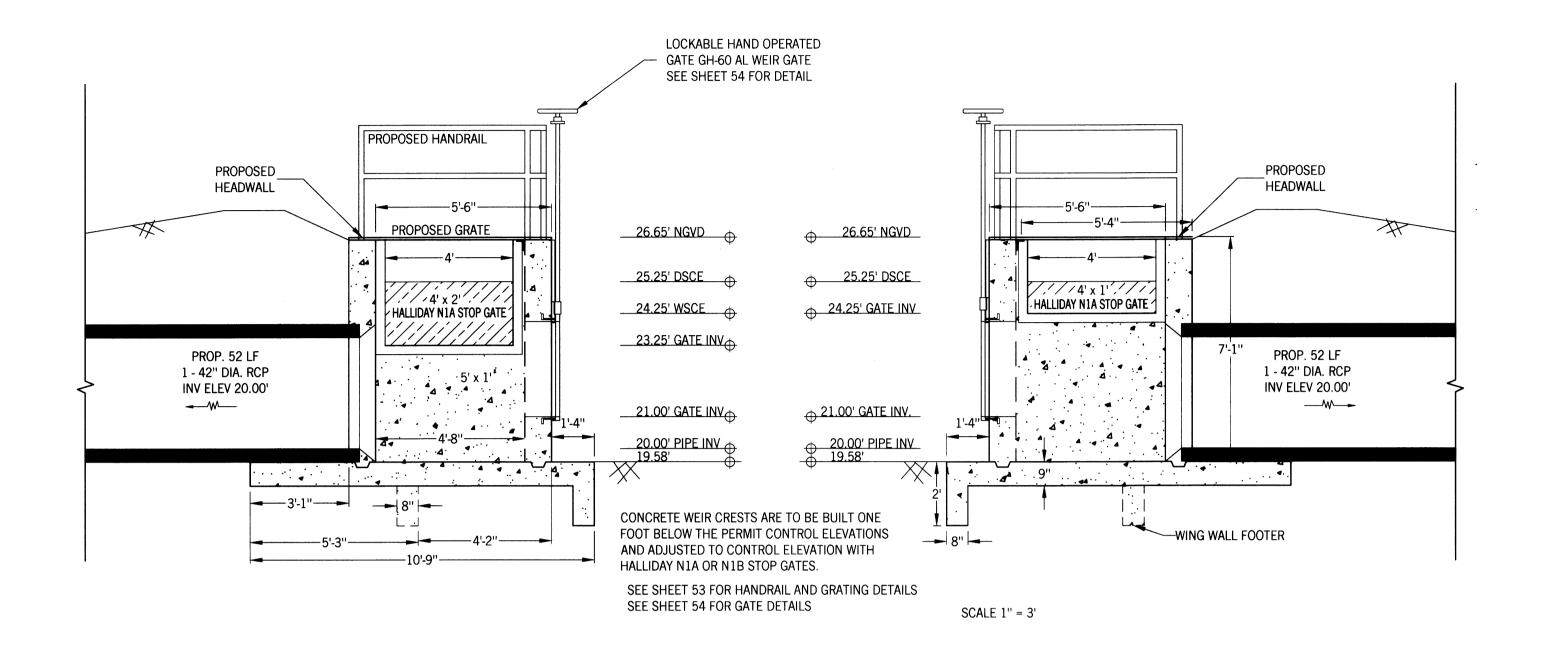
Richard H. Thomp

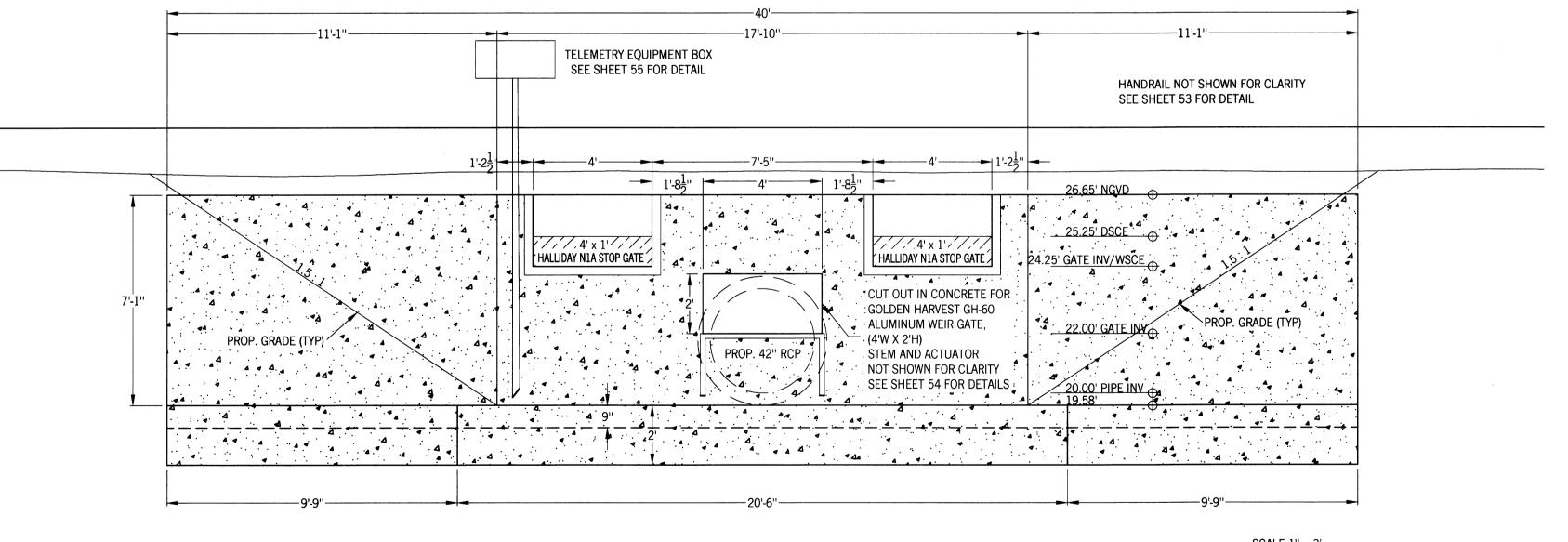
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R.B.) (A.B. PROJECT SIDE AND LEHIGH WEIRS FRONT STRUCTURE SOUTHWEST

SHEET 42/56

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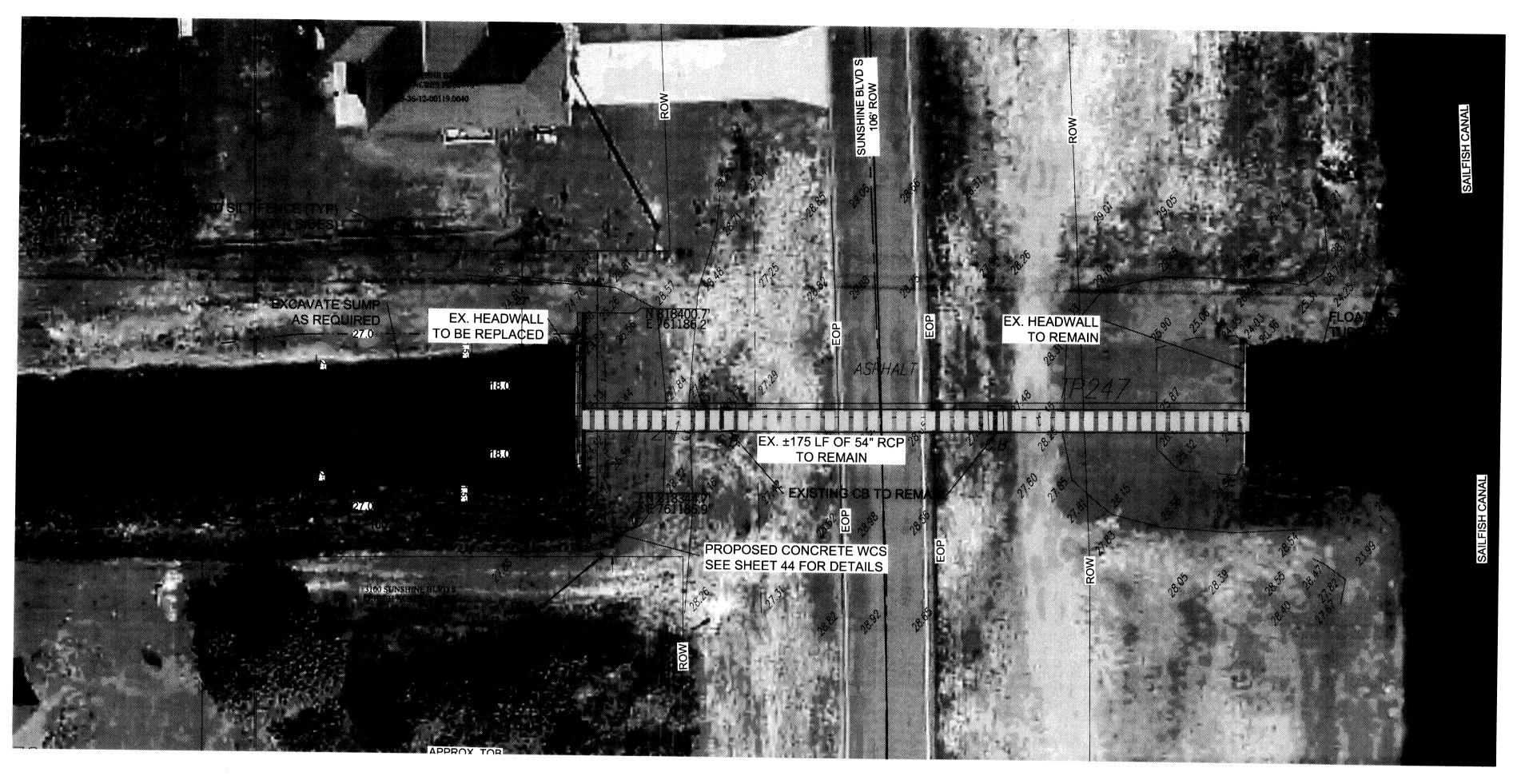
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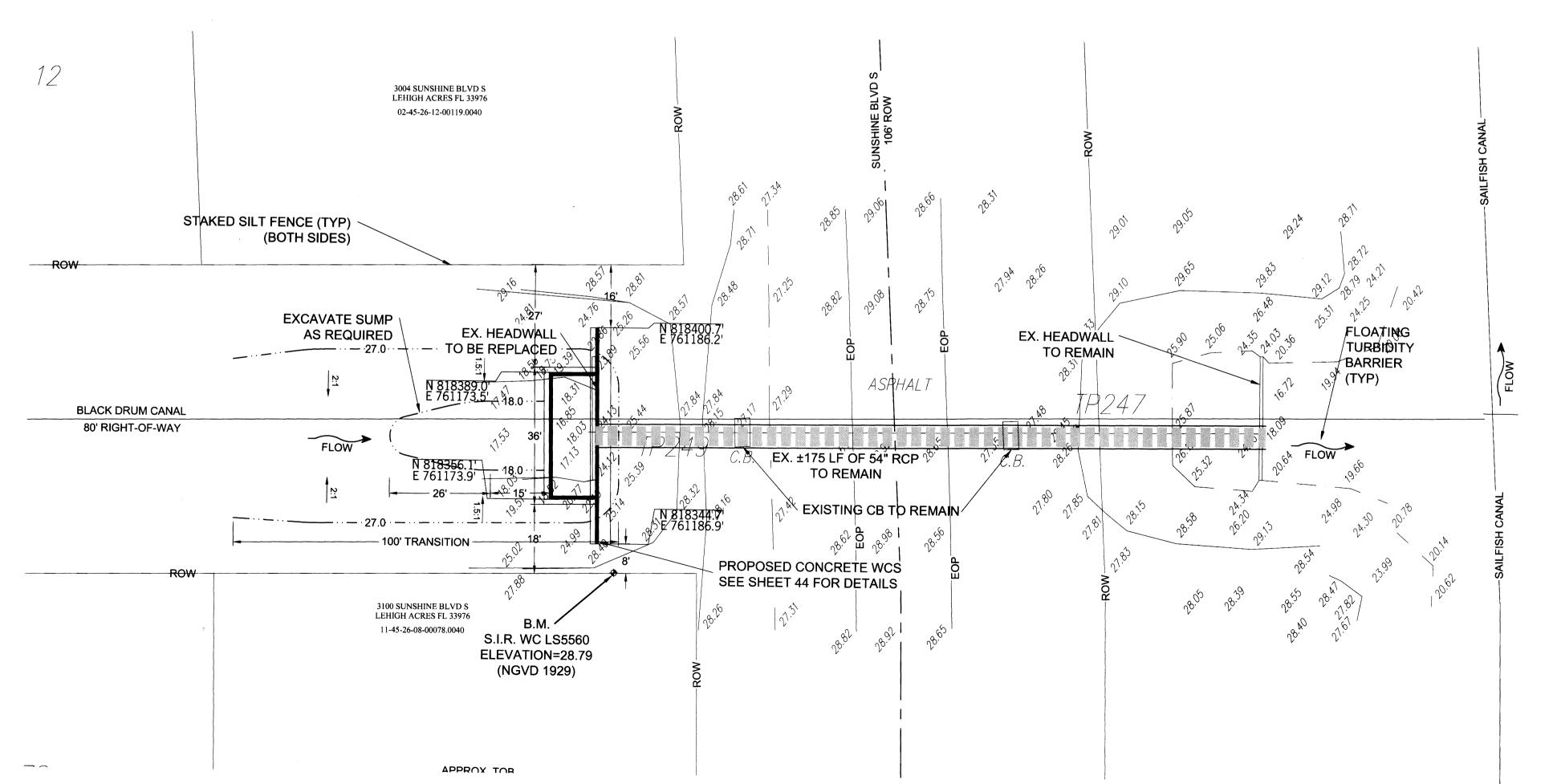
SCALE 1" = 3'











SHEET 43/56

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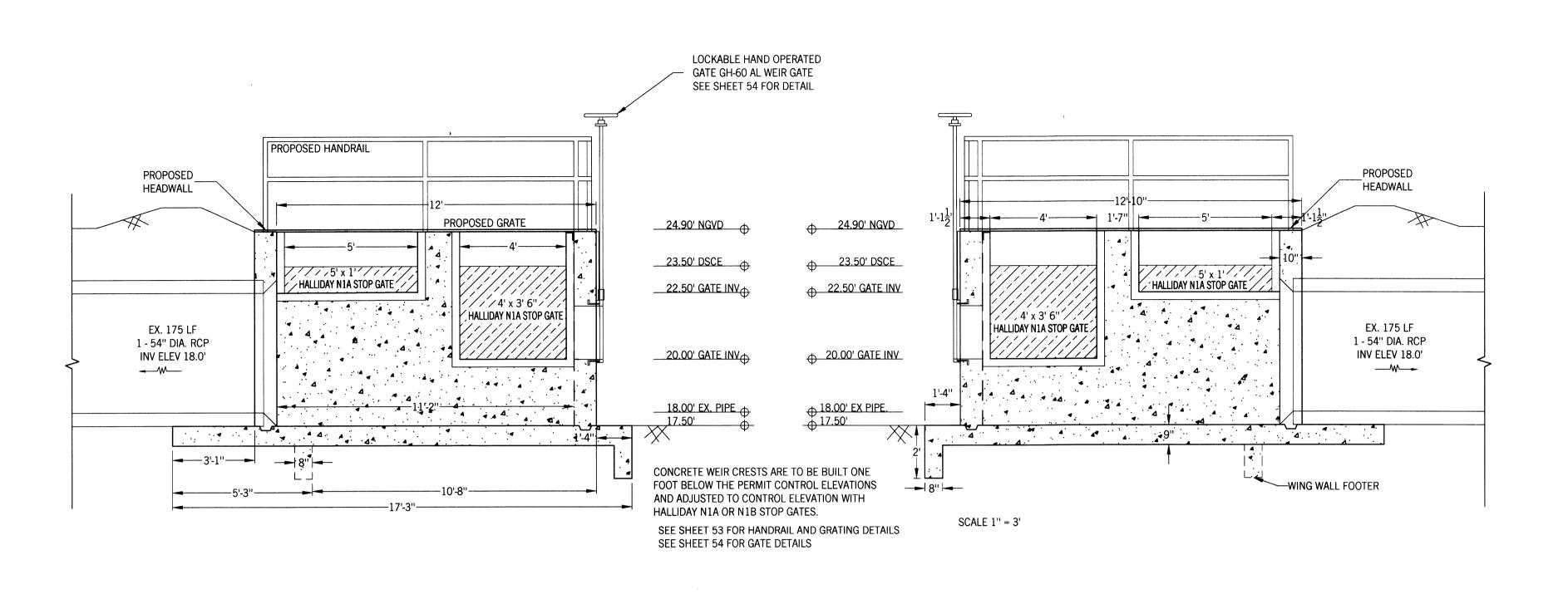
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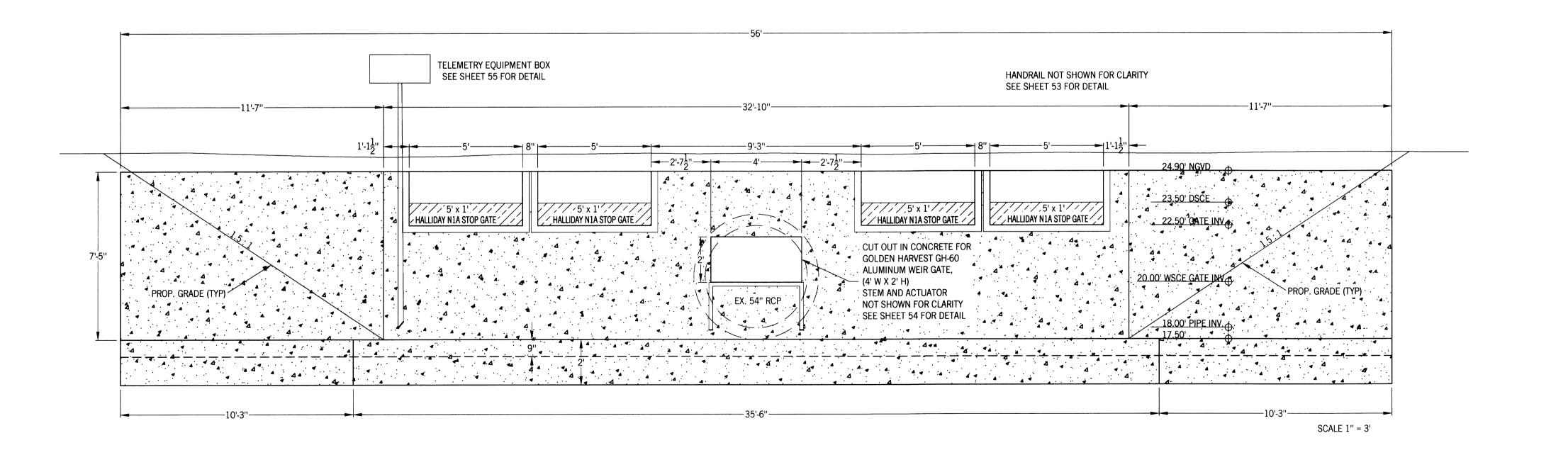
DATE: SEPT 2015

PROJECT (A.B.S.O.R.B.)

AND PLAN VIEW SOUTHWEST LEHIGH WEIRS 22 AERIAL

STRUCTURE 2





mpson, P.E. # 46720

spincering, Inc.
man Street
cres, FL 33936
3 469-8900

BLACKDRUM CANAL

CLIENT:

CLIENT:

LEHIGH ACRES PROJECT

STRUCTURE 22 FRONT AND SIDE VIE

LEHIGH ACRES - MUNICIPAL SERVICES

SHEET 44/56

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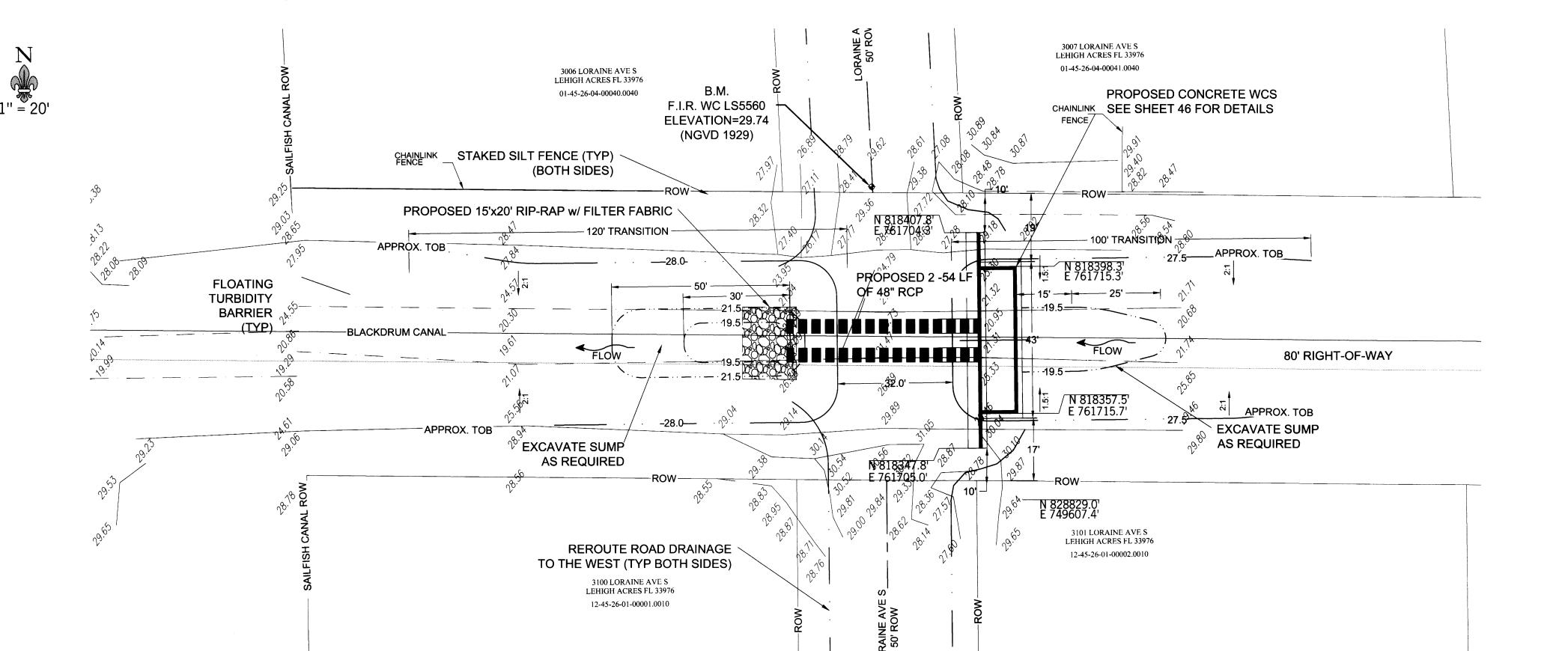
SEPT 2015

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S.O.R.I

(A.B.

PROPOSED CONCRETE WCS SEE SHEET 46 FOR DETAILS





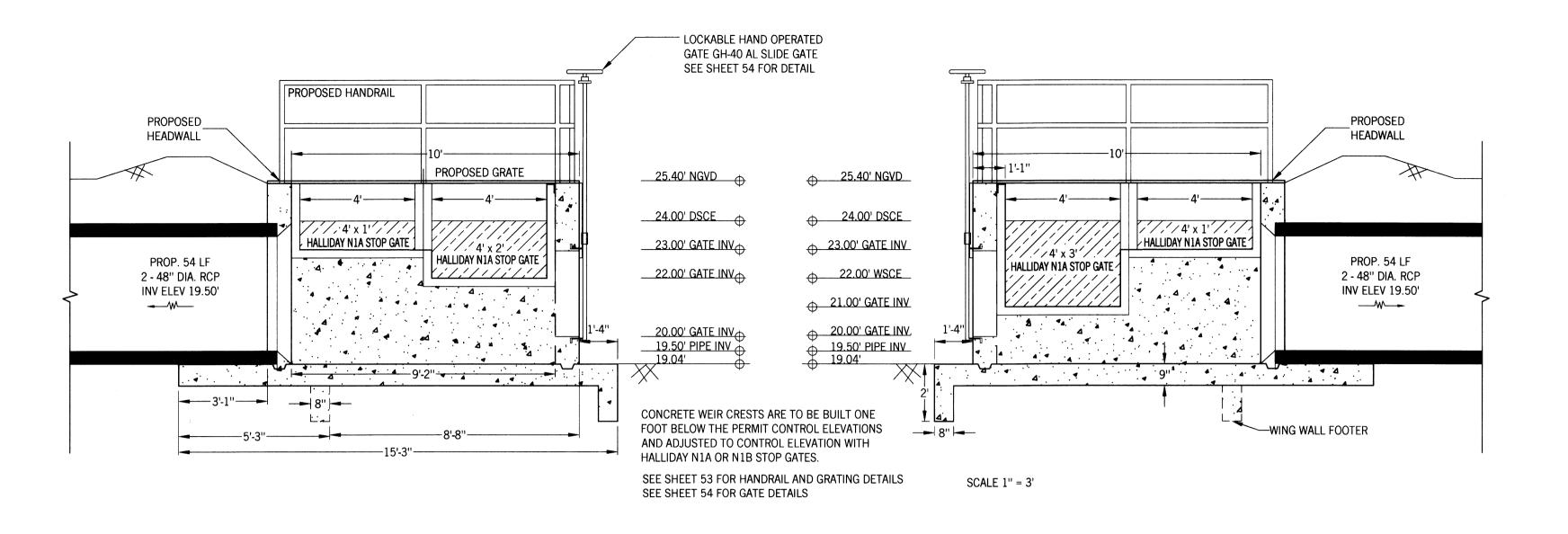
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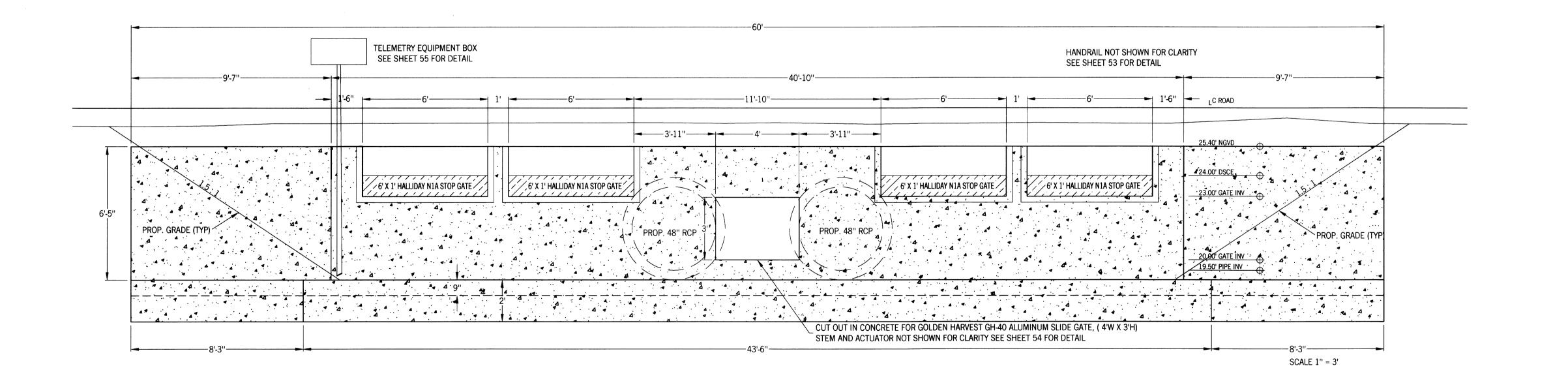
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DATE: SEPT 2015

		STIFFICH WFIRS PROJECT (A R
720		
	STRU	STRUCTURE 23 AERIAL AND PLAN VIEW
tion	BLACKDRUM CANAL	CLIENT: LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEN





PROJECT (A.B VIEWS SIDE AND LEHIGH WEIRS 23 FRONT STRUCTURE SOUTHWEST

SHEET 46/56

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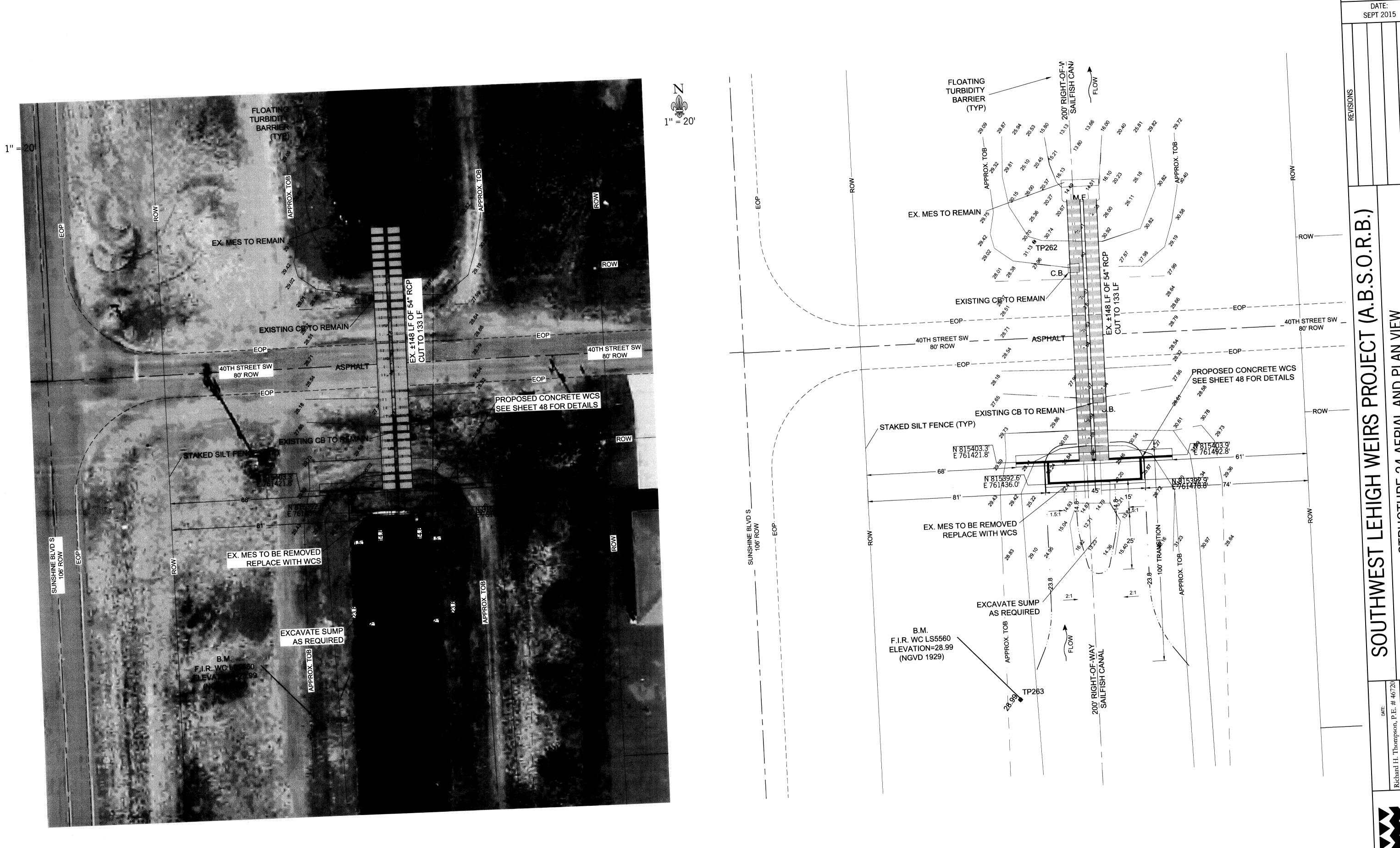
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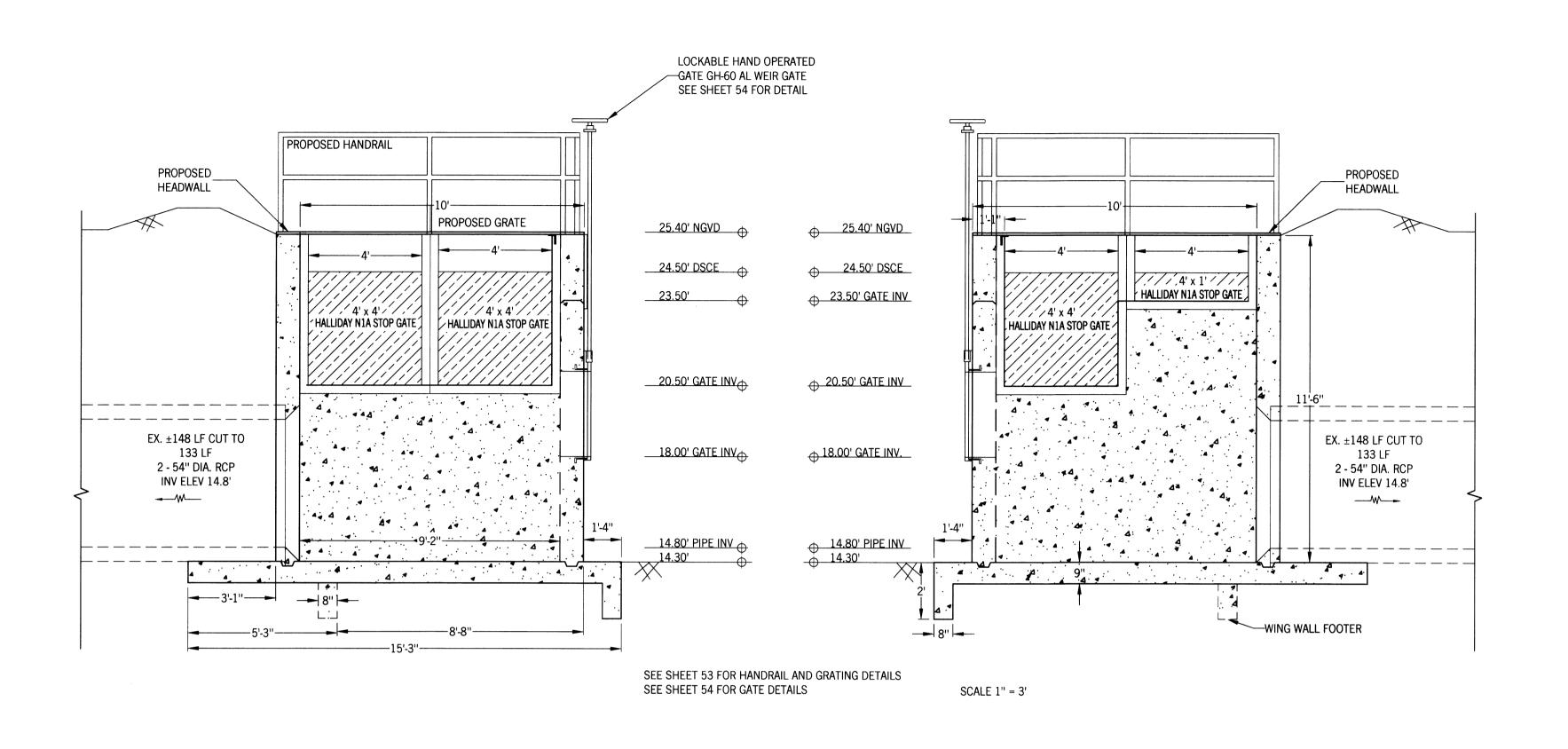
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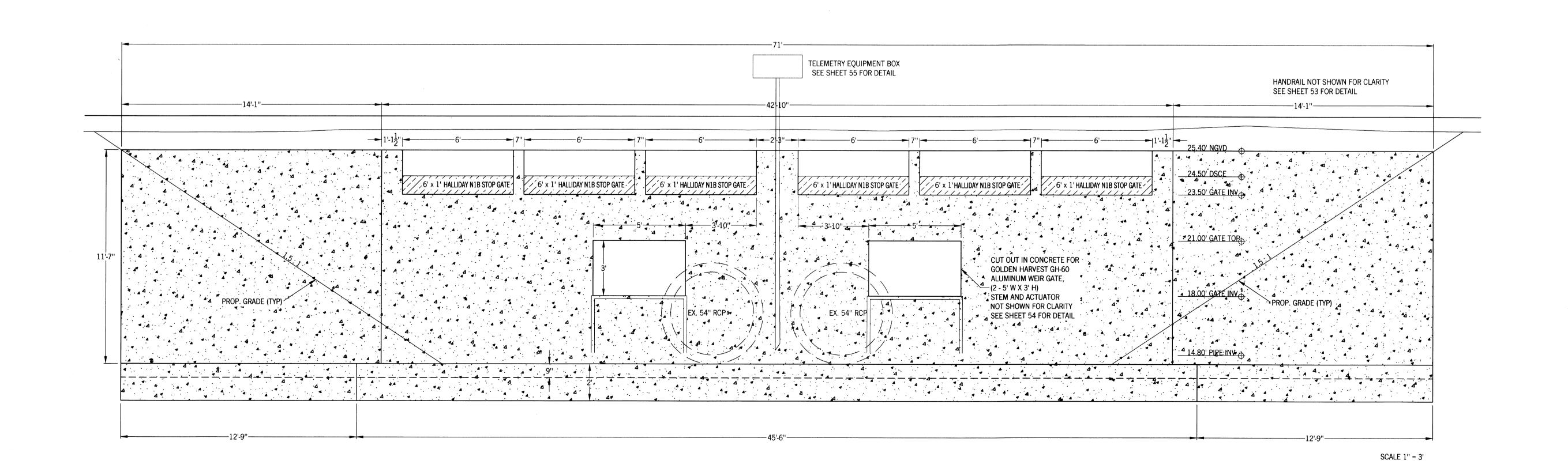
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> AND PLAN VIEW 24 AE STRUCTURE ?





(A.B.S.O.R.B.) **PROJECT** SOUTHWEST LEHIGH WEIRS

SIDE VIEWS AND 24 FRONT STRUCTURE

SHEET 48/56

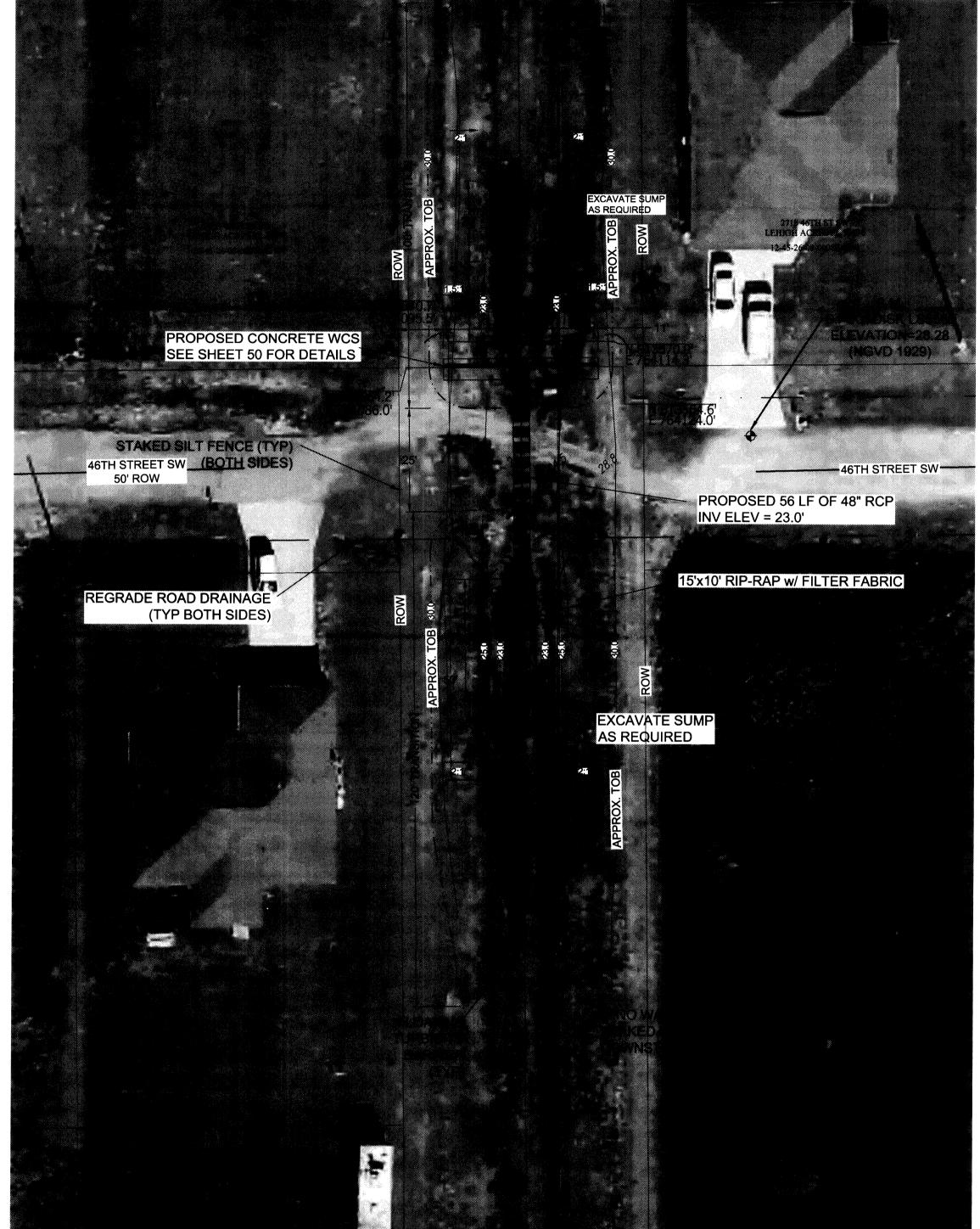
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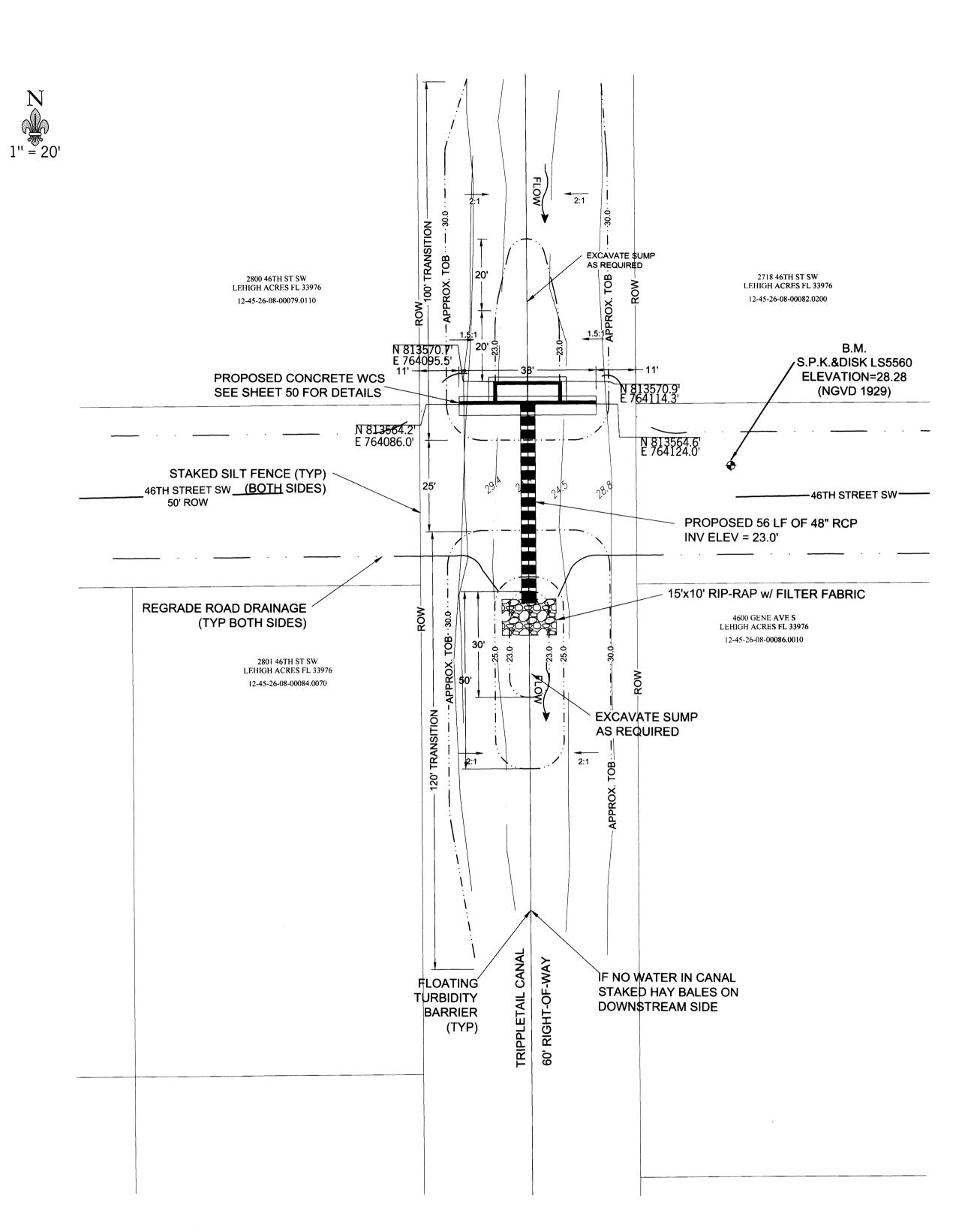
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SEPT 2015

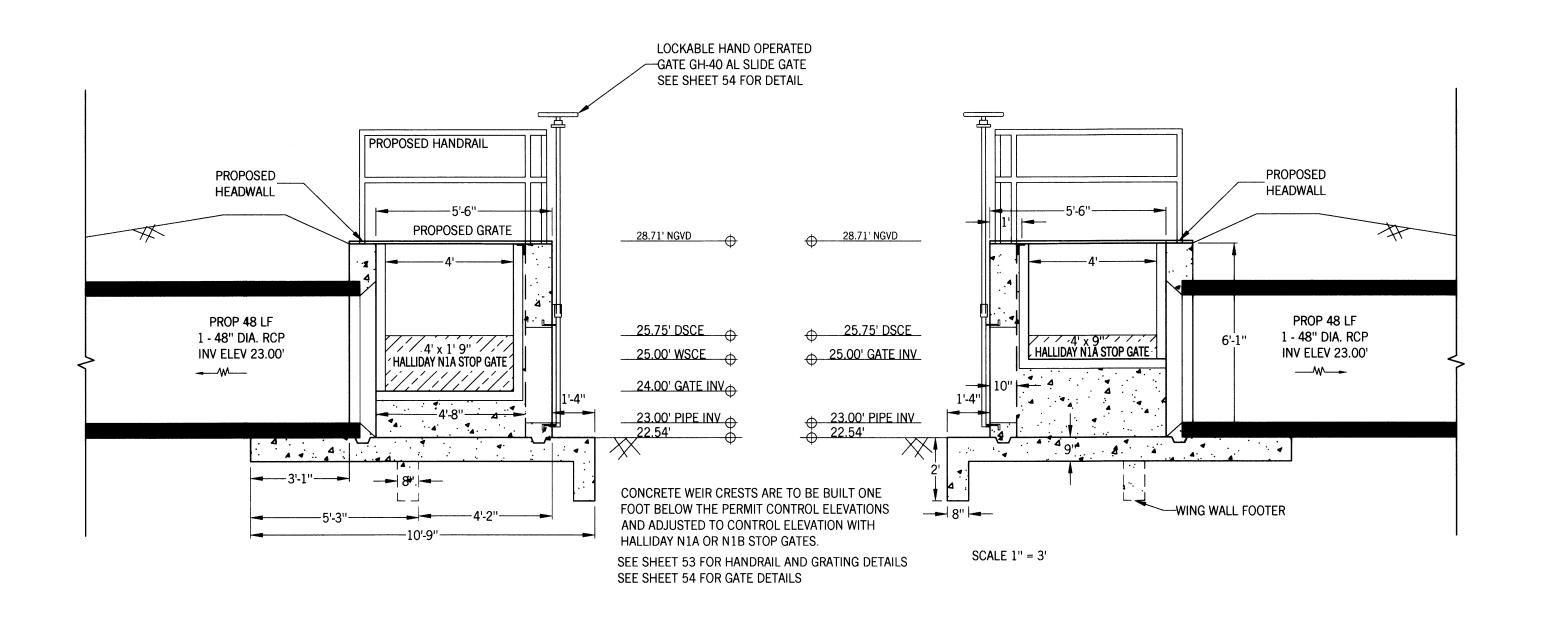


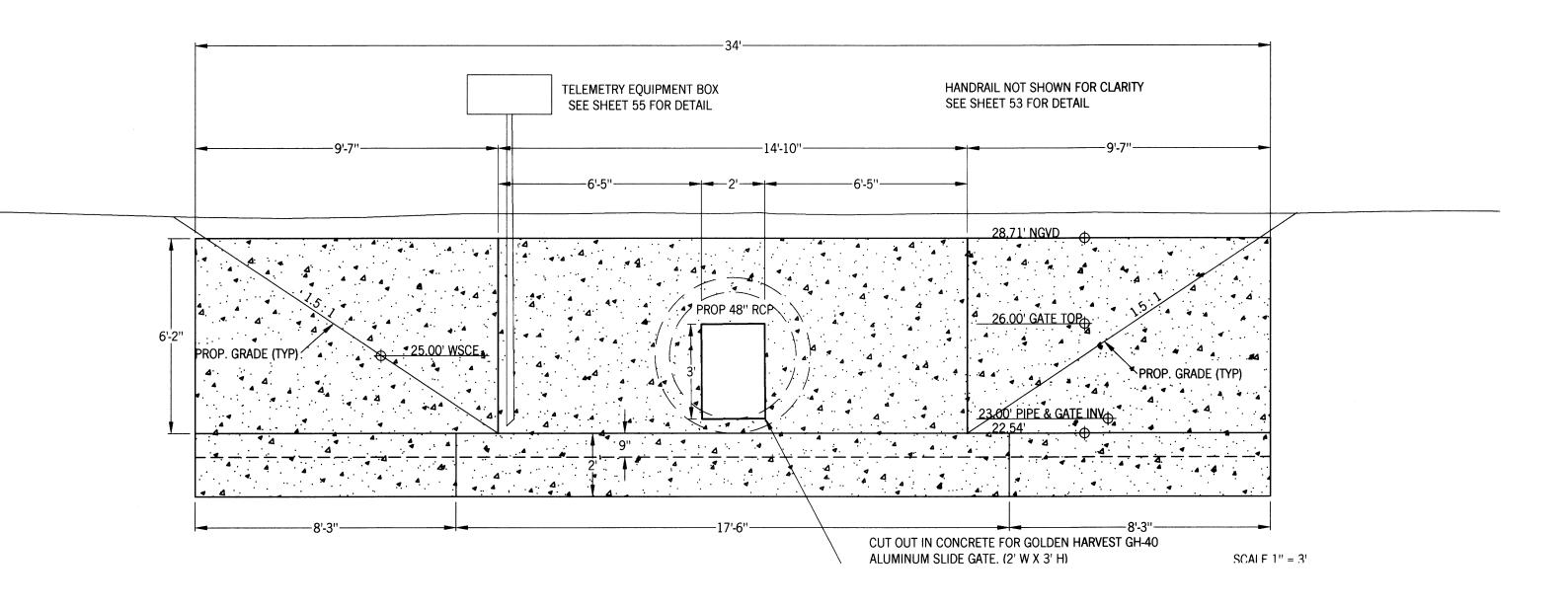




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RHT engineering



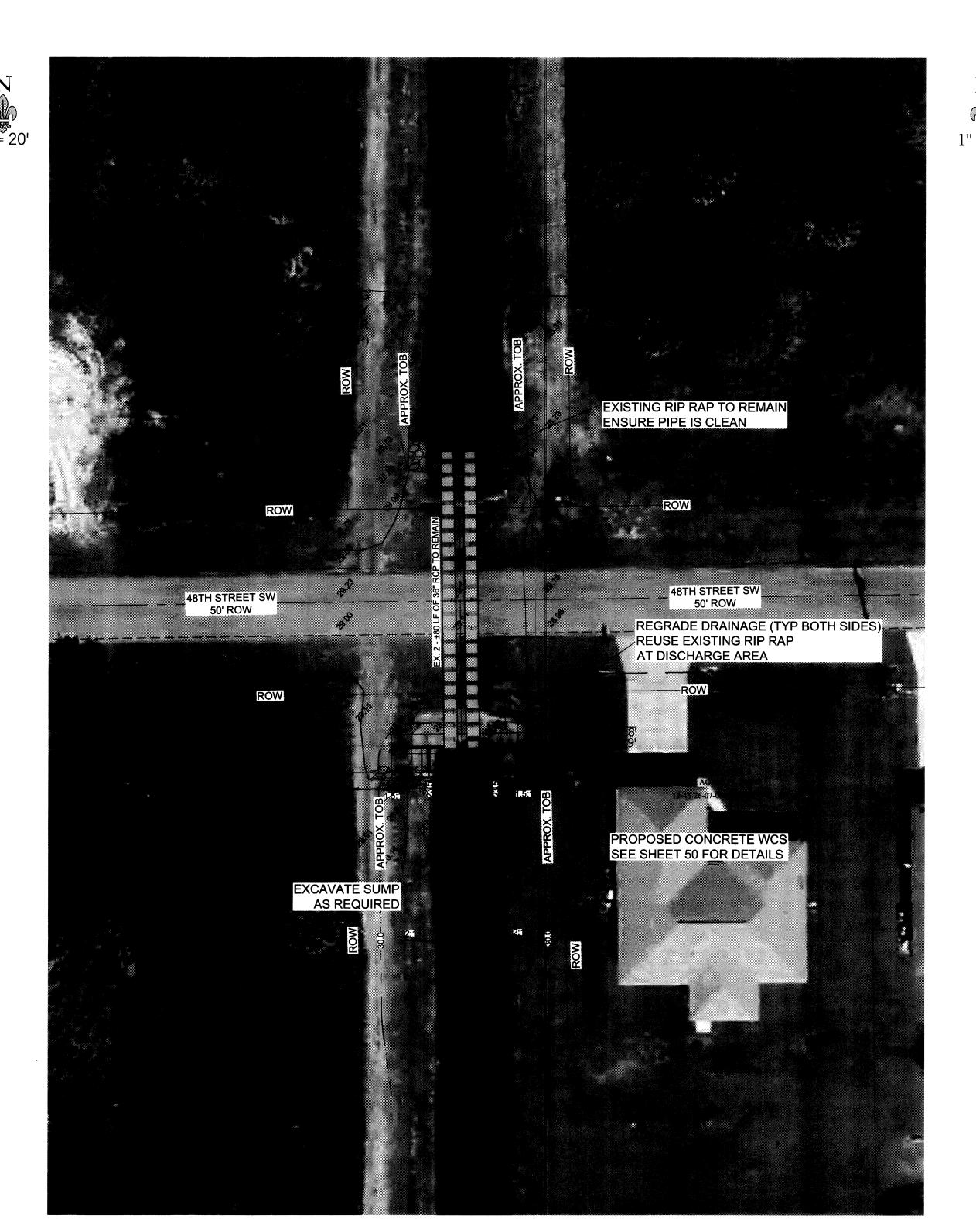


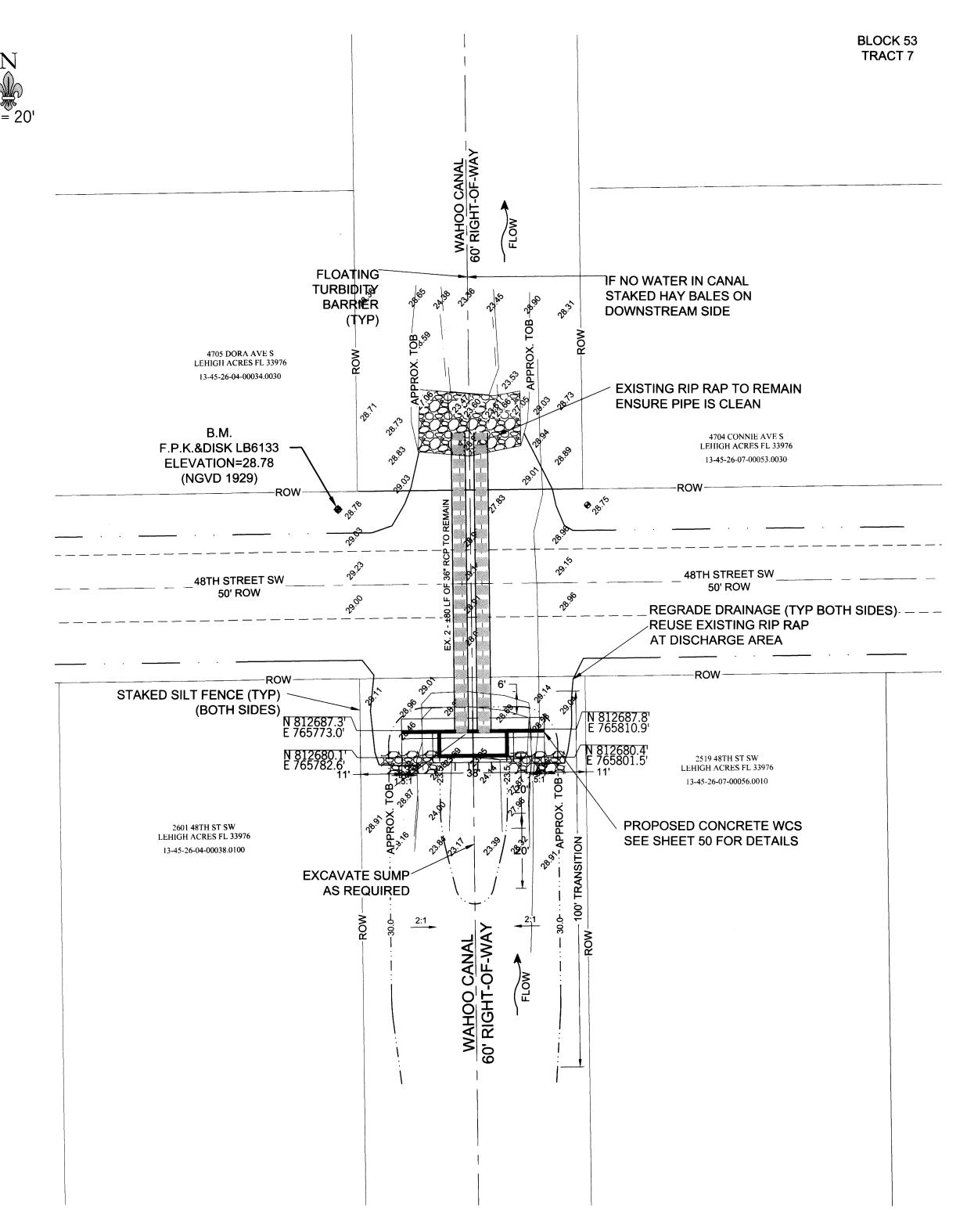
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SHEET 50/56

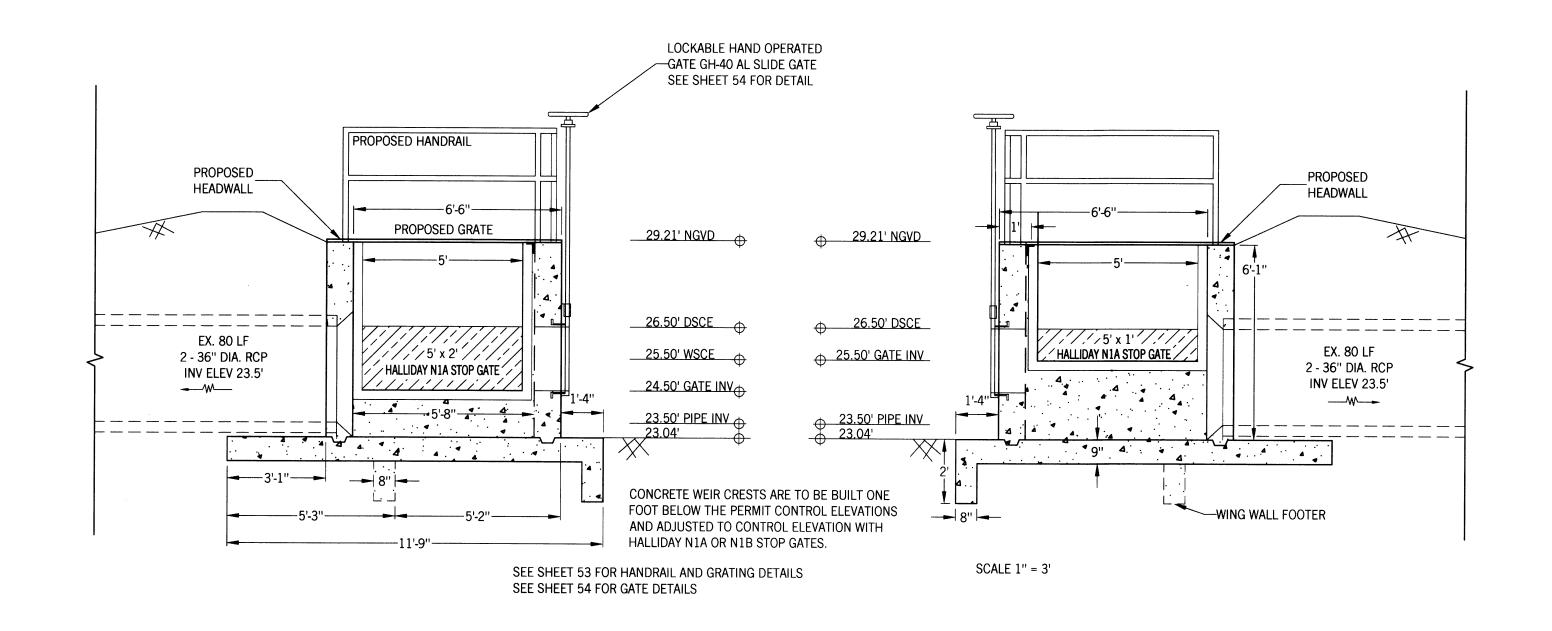
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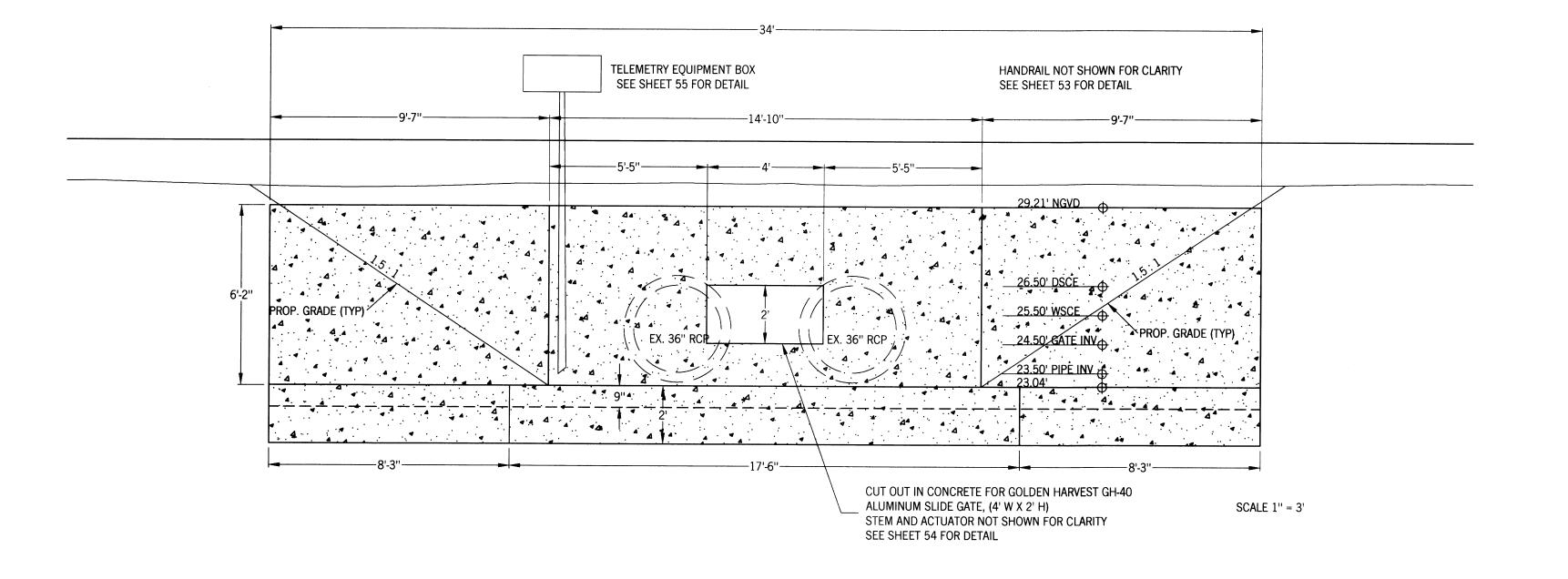
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SHEET 51/56 DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: SEPT 2015 (A.B.S.O.R.B.) **AND PLAN VIEW PROJECT** LEHIGH ACRES - N STRUCTURE 26 AERIAL CLIENT: LEHIGH ACRES LEHIGH WEIRS SOUTHWEST WAHOO CANAL





DRAWN BY: RHT CHECKED BY: RHT APPROVED BY: RHT DATE: **SEPT 2015** PROJECT (A.B.S.O.R.B.) AND SIDE LEHIGH WEIRS 26 FRONT STRUCTURE SOUTHWEST

SHEET 52/56

RHT engineering

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.

- THESE PLANS ARE FOR THE PERMANENT CONCRETE WATER CONTROL STRUCTURES FOR THE PROJECT REFERRED TO AS "LA-MSID SW BASIN STRUCTURES".

- THE CONTRACTOR SHALL FIELD LOCATE ALL OF THE ADJACENT PROPERTY CORNERS, PRIVATE LOT LINES, AND/OR RIGHT-OF-WAY LINES AND FIELD LOCATE EACH STRUCTURE. THE ENGINEER SHALL APPROVE THE FINAL PLACEMENT OF EACH STRUCTURE PRIOR TO CONSTRUCTION.

GENERAL SPECIFICATIONS:

- FLORIDA DEPARTMENT OF TRANSPORTATION (FOOT) STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION (2007 EDITION) AS AMENDED BY CONTRACT

DESIGN SPECIFICATIONS:

- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (THIRD EDITION) AND APPROVED INTERIMS AS SPECIFIED IN THE FDOT STRUCTURES DESIGN GUIDELINES.

CONCRETE:

- ALL CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346. CONCRETE CLASS II, MINIMUM 28- DAY COMPRESSIVE STRENGTH F'C = 4.500 PSI. BEVEL EXPOSED EDGES 3/4" UNLESS NOTED OTHERWISE.

CONCRETE COVER:

- USE 3 IN. CLEAR CONCRETE COVER FOR ALL REINFORCEMENT, UNLESS NOTED OTHERWISE. CONCRETE COVERS SHOWN ON THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE TOLERANCES.

REINFORCING STEEL:

- ALL REINFORCING SHALL BE ASTM A615. GRADE 60. CONCRETE SURFACE FINISH:

- APPLY A GENERAL SURFACE FINISH TO ALL EXPOSED CONCRETE SURFACES. IN ADDITION, USE A CLASS 3 SURFACE FINISH IN ACCORDANCE WITH FDOT SECTION 400-15.

JOINTS IN CONCRETE:

- FDOT SECTION 400-9.

EXCAVATION AND BACKFILL:

- FDOT SECTION 125.

PIPE HANDRAIL STEEL:

FIELD VERIFY ALL MEASUREMENTS BEFORE FABRICATION.

DESIGN REQUIREMENTS: RAILING ASSEMBLY AND ATTACHMENTS TO RESIST LATERAL FORCE OF 50 PLF OR 200 LBS CONCENTRATED AT ANY POINT WITHOUT DAMAGE OR PERMANENT SET AND MEET OR EXCEED REQUIREMENTS OF OSHA AND BUILDING CODE.

WELDED HOT-DIPPED GALVANIZED STEEL SYSTEM CONSTRUCTED IN ACCORDANCE WITH FDOT SECTIONS 515 AND 962-9.1, AS AMENDED BY CONTRACT DOCUMENTS.

RAILS AND POSTS: 1%" STEEL PIPE (1.9 IN. OD, 0.145 IN. WALLS), EXTRUDED TUBING CONFORMING TO ASTM A53, SMOOTH WELDED JOINTS.

SHOP DRAWINGS: INDICATE PROFILES, SIZES, CONNECTIONS, ANCHORAGE, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES.

FITTINGS: HOT DIPPED GALVANIZED

MOUNTING: BRACKETS AND FLANGES WITH HOT DIPPED GALVANIZED BOLTS.

SPLICE CONNECTORS: CONCEALED SPIGOT; HOT DIPPED GALVANIZED

EXPOSED FASTENERS: FLUSH COUNTERSUNK SCREWS OR BOLTS CONSISTENT WITH DESIGN OF RAILING.

BOLTS, NUTS, FASTENERS: HOT DIPPED GALVANIZED.

FABRICATION: SEAL JOINED PIECES BY CONTINUOUS WELDS. DRILL CONDENSATE DRAINAGE HOLES AT BOTTOM OF MEMBERS AT LOCATIONS THAT WILL NOT ENCOURAGE WATER INTRUSION. GRIND EXPOSED JOINTS FLUSH AND SMOOTH WITH ADJACENT FINISH SURFACE. MAKE EXPOSED JOINTS BUTT TIGHT. FLUSH, AND HAIRLINE. EASE EXPOSED EDGES WITH SMALL UNIFORM RADIUS. ACCOMMODATE FOR EXPANSION AND CONTRACTION OF MEMBERS. BEND CORNERS AND ELBOWS TO SMALLEST POSSIBLE UNIFORM RADIUS WITHOUT CAUSING GRAIN SEPARATION, BUCKLING, OR TWISTING. BEND AND WELD COMPONENTS BEFORE ANODIZING. REPAIR ANODIZING ON AND ADJACENT TO FIELD WELDS. COORDINATE SPECIAL CONNECTION REQUIREMENTS WITH THE DISTRICT AND THE GATE MANUFACTURER.

STEEL GRATING:

FIELD VERIFY ALL MEASUREMENTS BEFORE FABRICATION.

PERFORMANCE REQUIREMENTS: DESIGN LIVE LOAD OF 100 PSF MINIMUM, MAXIMUM DEFLECTION OF 1/240 OF SPAN. ALL SECTIONS TO BE REMOVABLE FOR ACCESS TO CLEAN UP DEBRIS ON TOP OF THE SHEET PILE WALL BELOW.

SHOP DRAWINGS: INDICATE DETAILS OF COMPONENT SUPPORTS, OPENINGS, PERIMETER CONSTRUCTION, TOLERANCES, AND NET WELD LENGTHS.

SAMPLE: SUBMIT SAMPLE ILLUSTRATING SURFACE FINISH, COLOR, AND TEXTURE.

MANUFACTURER: IKG INDUSTRIES TYPE B HOT DIPPED GALVANIZED STEEL GRATING OR APPROVED EQUAL. MATERIAL: EXTRUDED HOT DIPPED GALVANIZED STEEL 6061 PER ASTM A123. MILL FINISH.

ACCESSORIES: HOT DIPPED GALVANIZED FASTENERS AND SADDLE CLIPS; PERIMETER CLOSURE OF SAME MATERIAL AS GRATING.

FABRICATION: SERRATED TOP SURFACE; MECHANICALLY CLINCH JOINTS OF INTERSECTING METAL SECTIONS: FABRICATE SUPPORT FRAMING FOR OPENINGS; BEARING BARS SPACED AT 1 3/16 INCHES; CROSS BARS SPACED 4 INCHES ON CENTER; BAND ALL EDGES AND CUTOUTS; COORDINATE SPECIAL GRATING AND FRAMING REQUIREMENTS WITH THE OWNER AND THE GATE MANUFACTURER.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC .STEEL CONSTRUCTION MANUAL," THIRTEENTH EDITION AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," MARCH 18, 2005 EDITION.

- ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE. PROVIDE CONTINUOUS MINIMUM SIZED WELDS PER AISC REQUIREMENTS, UNLESS NOTED OTHERWISE.

- THE MINIMUM SIZE OF FILLET WELDS SHALL BE AS SPECIFIED IN TABLE J2.4 IN THE AISC MANUAL OF STEEL CONSTRUCTION.

- BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A-325 HIGH STRENGTH BOLTS (MIN 3/4-INCH DIAMETER). CONNECTIONS SHALL SUPPORT, AT A MINIMUM, ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE AISC TABLES OF UNIFORM LOAD CONSTANTS FOR THE GIVEN BEAM, SPAN, AND STEEL SPECIFIED, UNLESS OTHERWISE DETAILED. BEAM-TO-BEAM AND BEAM-TO-COLUMN FRAMING CONNECTIONS SHALL BE MADE WITH DOUBLE ANGLES UNLESS. OTHERWISE DETAILED.

- ALL STRUTS, HANGERS, AND BRACES SHALL HAVE CONNECTIONS DESIGNED TO DEVELOP THE FULL ALLOWABLE TENSILE STRENGTH OF THE MEMBER UNLESS THE DESIGN FORCE IS INDICATED ON THE DRAWINGS, IN WHICH CASE THE CONNECTIONS SHALL BE DESIGNED FOR THE FORCE INDICATED.

- CLEAN, PREPARE, AND SHOP PRIME EXTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH S.S.P.C. STANDARDS SP-1 AND SP-6. - WHILE THE DESIGN DOCUMENTS MAY REFERENCE OSHA, THEY ARE NOT INTENDED TO SPECIFICALLY IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AND COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.

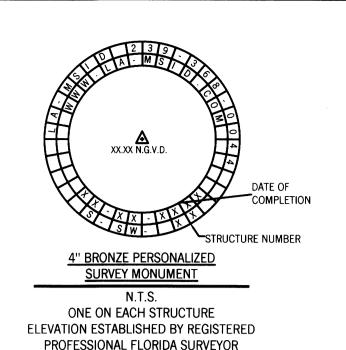
- ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED. PROVIDE MINIMUM 2.0 OZ/SQ. FT., (3.4 mils) GALVANIZED COATING FOR MEMBERS 3/16-INCH TO 1/4-INCH THICK, AND 2.3 OZ/SQ. FT. (3.9

mils) FOR MEMBERS GREATER THAN 1/4-INCH THICK. - ALL STEEL SHALL BE POSITIONED WITH THE NATURAL CAMBER OR INDUCED CAMBER TURNED UP.

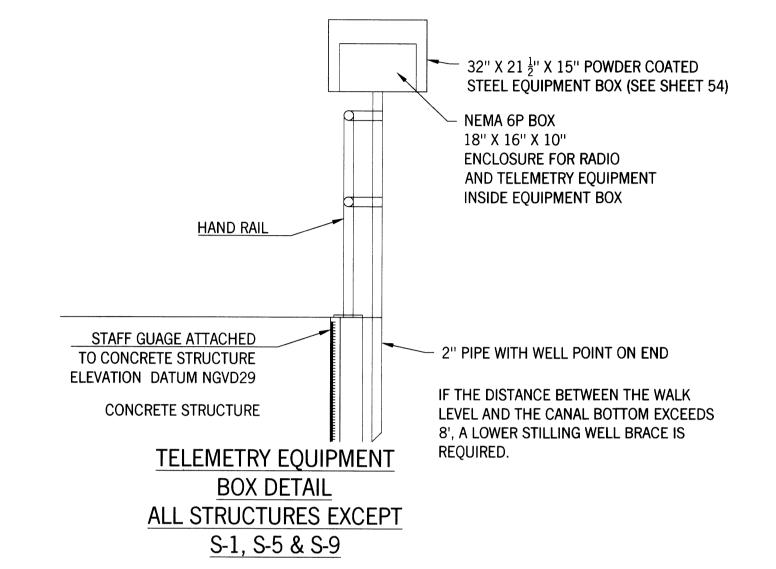
- TOUCH UP ANY DAMAGED GALVANIZED COATING OR FIELD WELDS WITH ZINC-RICH COLD GALVANIZING COMPOUND -EQUIVALENT HOT DIPPED GALVANIZED STEEL MAY BE PROPOSED AS AN ALTERNATIVE TO ALUMINUM COMPONENTS

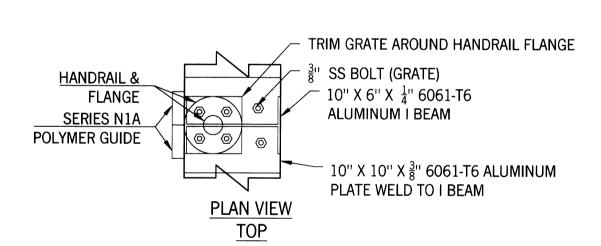
🖁 " x 3" SS BOLT 18" OC (TYP) - 1 X 글" GRATING TYPICAL GRATE CONNECTION

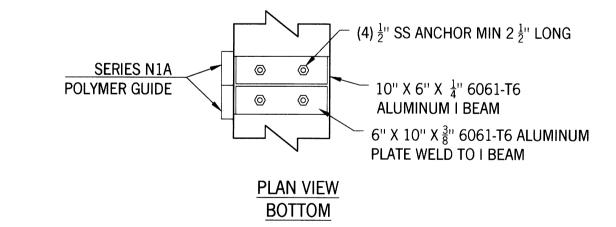
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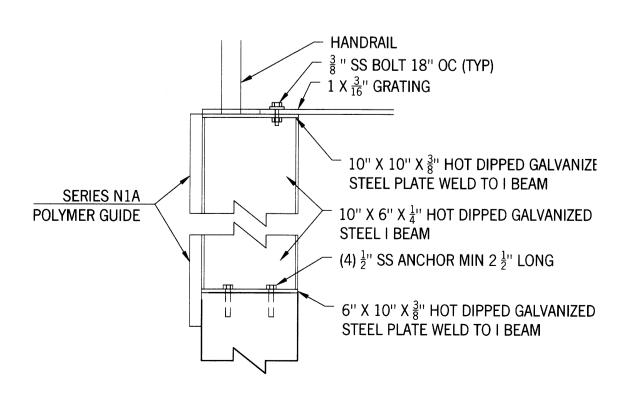


NGVD 29 DATUM

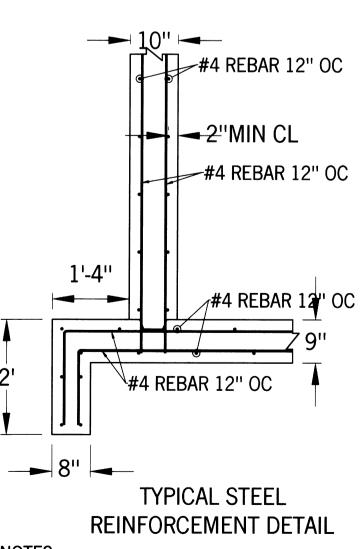






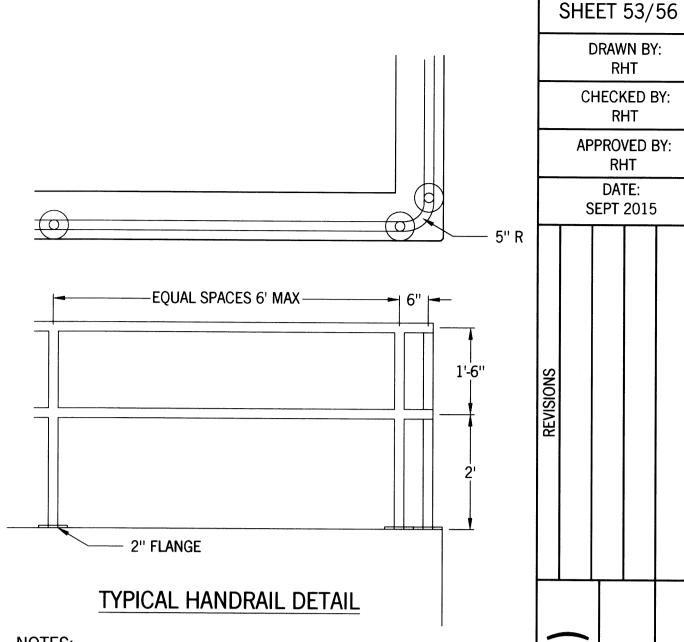


TYPICAL AL PLATE GUIDE CENTER SUPPORT W/OUT WALL



NOTES:

- ALL REINFORCING SHALL BE ASTM A615.
- GRADE 60.
- REQUIRED SPLICES SHALL BE MINIMUM 12". REBAR SHALL BE BENT AROUND OPENINGS
- FOR CULVERTS AND GATES.

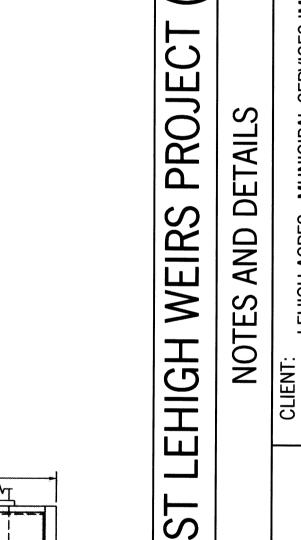


NOTES:

ALL PIPE SHALL BE 2" SCHD 40 HOT DIPPED GALVANIZED.

MANUFACTURERS RECOMMENDATION.

- 2. POSTS SHALL BE EVENLY SPACED AND NO MORE THAN 6' APART.
- 3. POSTS SHALL BE CONNECTED TO
- STRUCTURE WITH 2" FLANGES. 4. FLANGES SHALL BE CONNECTED PER



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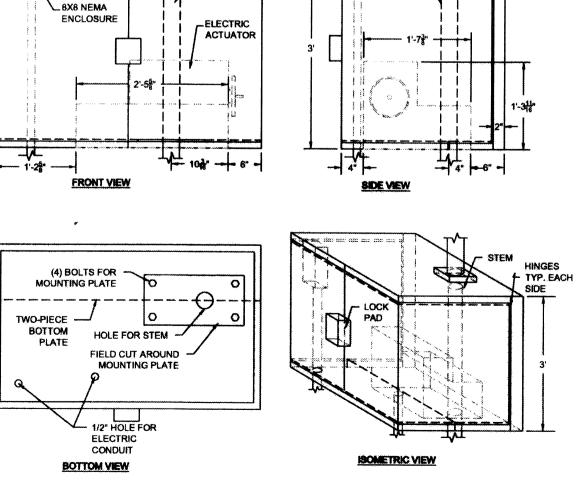
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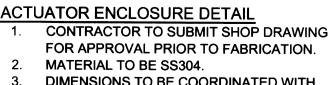
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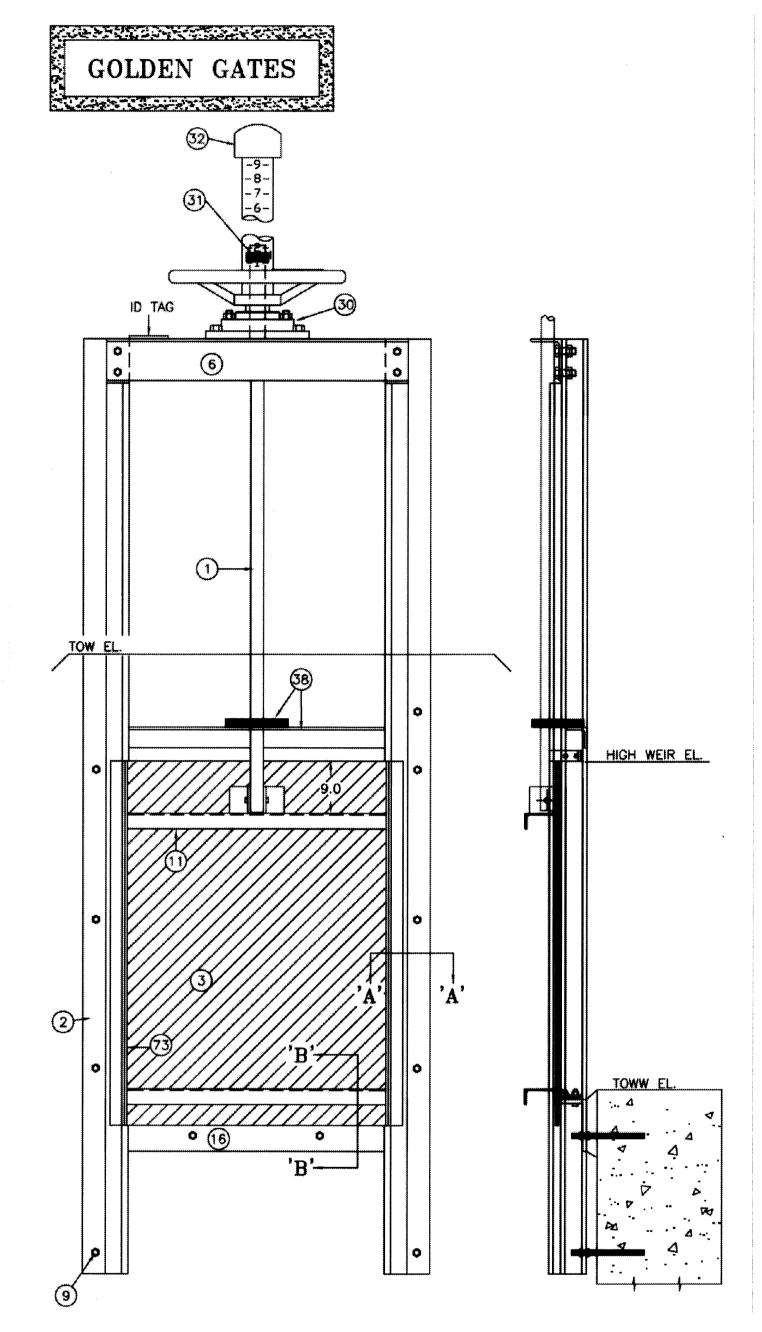




3. DIMENSIONS TO BE COORDINATED WITH ACTUATORS.

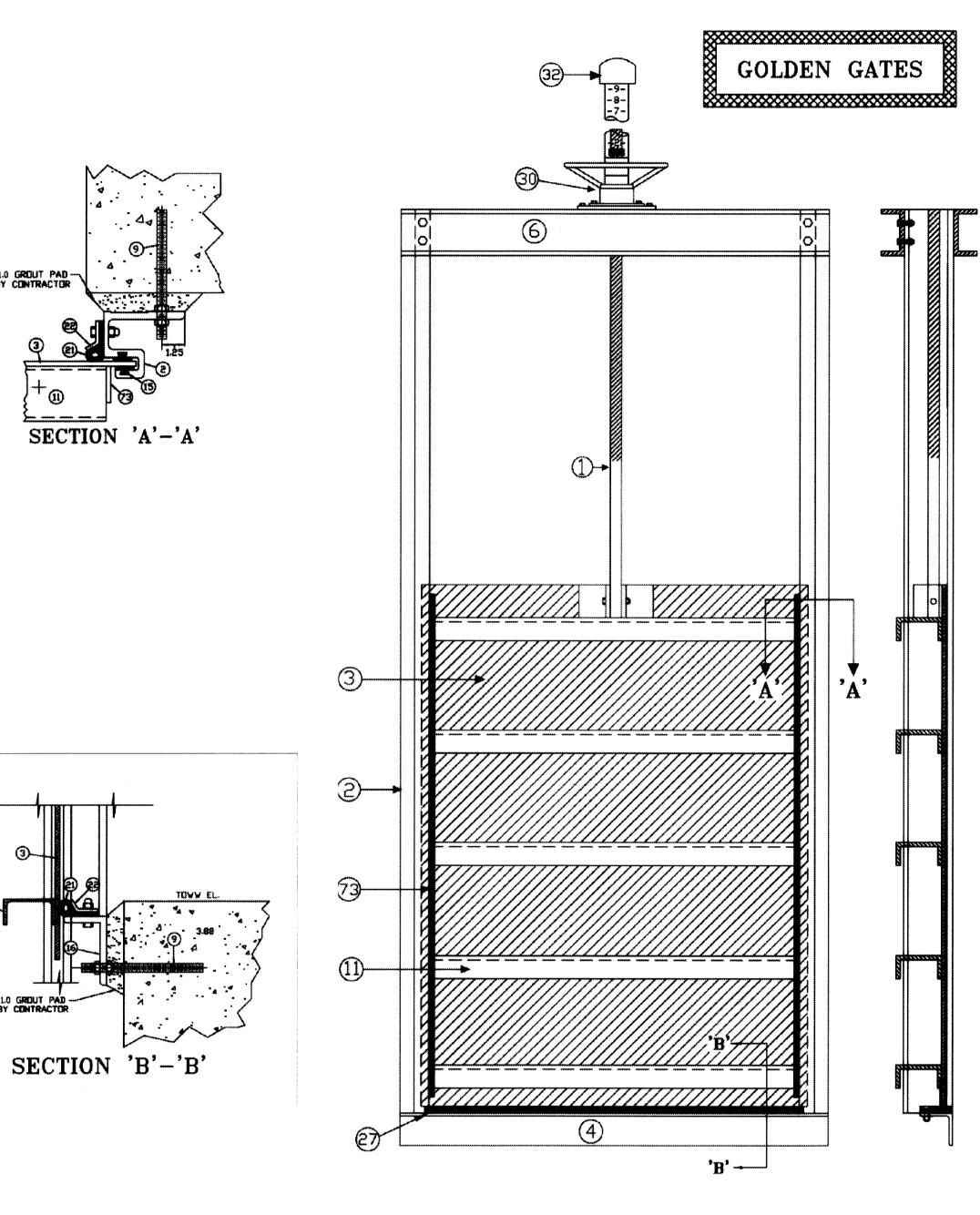


GOLDEN HARVEST GH-60 WEIR GATE



N	/D	GH	6 (A C	L.	WEI	R	GATE	F	AR	rs	LIST	₩
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6	***************************************)KE											
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11	ST	IFFE	NER	***************************************	************	*******************							
15	GL	JIDE	BEA	RIN	G	BAR	**********	• • • • • • • • • • • • • • • • • • •				222222222222222222222222222222222222222	
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<u>38</u>		EM	GUI	************									
73	VE	RT.	STIF	FEN	ER								

GOLDEN HARVEST GH-40 SLIDE GATE



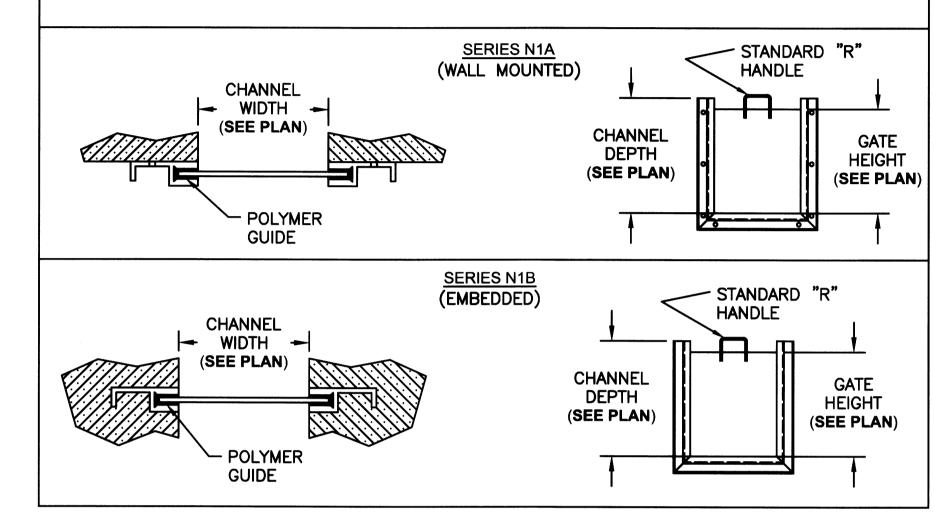
N	MD GH-40 ALUMINUM SLIDE GATE PARTS LIST
1	STEM
2	GUIDE RAIL
3	GATE HEAD
4	INVERT MEMBER
6	YOKE
11	STIFFENER
15	GUIDE BEARING BAR, UHMW
21	P-SEAL NEOPRENE RUBBER
27	INVERT SEAL NEOPRENE RUBBER
30	OPERATOR
31	STOP NUT
32	STEM COVER
73	VERTICAL STIFFENER



STANDARD FEATURES: \HALLIDAY PRODUCTS/

•ONE-PIECE 6061-T6 EXTRUDED ALUMINUM FRAME ONE-PIECE, WRAP AROUND POLYMER GUIDE •1/4" (7 MM) THICK 6061—T6 ALUMINUM GATE REINFORCED
TO DEFLECT NO MORE THAN 1/360th OF SPAN
•LOW COEFFICENT OF FRICTION
•NON—OZONE DEPLETING BITUMINOUS COATING ON FRAME
•DEEP SEATING FOR OPTIMUM TRACKING

•STANDARD "R" HANDLE OR OPTIONAL "P" HANDLE
•SERIES N1A AND N1C SUPPLIED WITH Ø1/2" (13 MM)
MOUNTING HOLES AND S.STL. MOUNTING HARDWARE
•3 YEAR GUARANTEE



SHEET 54/56 DRAWN BY: RHT

CHECKED BY: RHT

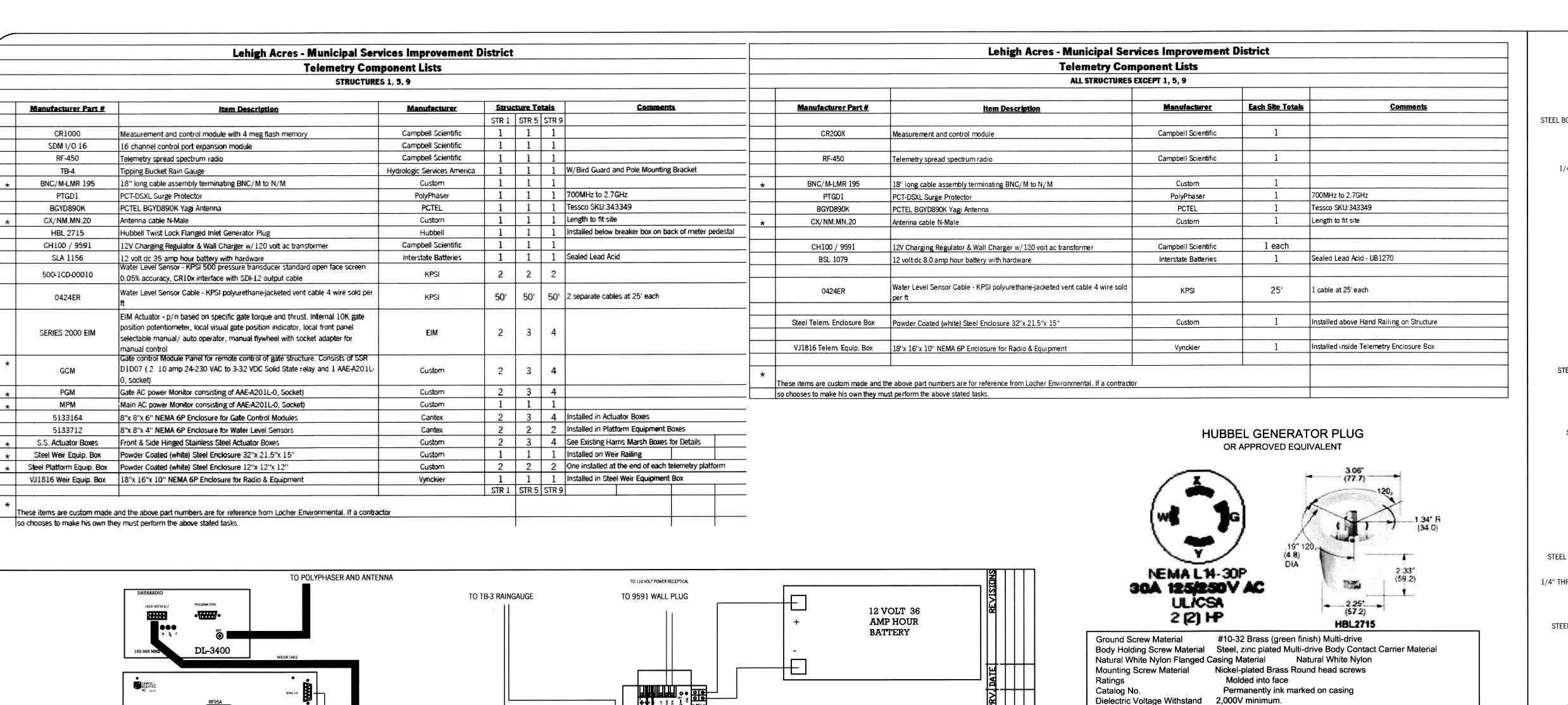
APPROVED BY: RHT

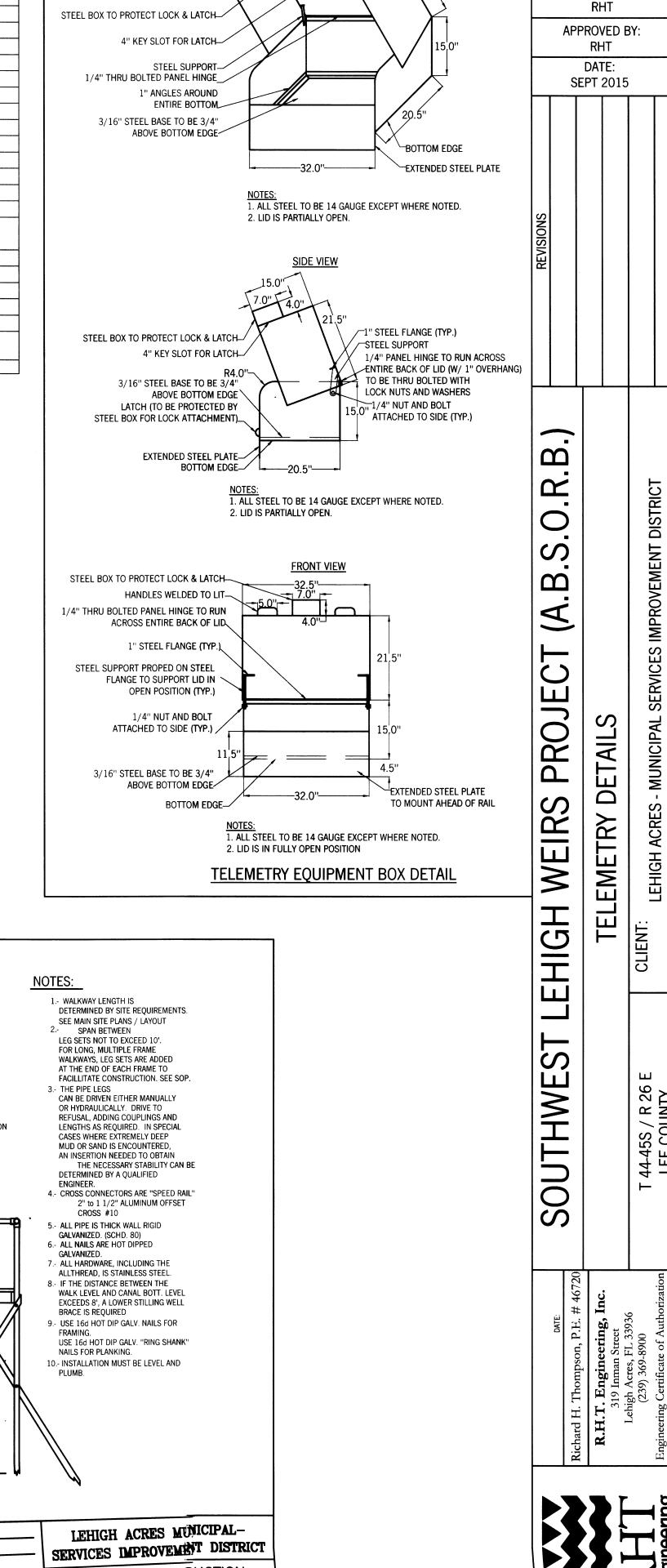
www.HallidayProducts.com Phone 800-298-1027 Fax 407-298-4534 Sales@HallidayProducts.com

DATE: SEPT 2015

 \Box NOTES AND DE SOUTHWEST LEHIGH WEIRS







Certified for current interrupting at full rated current

HB or better per UL 94 or CSA 22.2 No. 0.6

cycles of overload at 150% of rated current at a power factor of .75.

30A #10 AWG

Max 30 C temperature rise at full rated current after 50

Terminals identified in accordance with UL 498 (X, Y, Z,

Maximum Continuous 75 C Minimum -40 C (w/o impact)

Current Interrupting

Temperature Rise

White, Green)

Flammability

Terminal Accommodation

Operating Temperatures

Terminal Identification

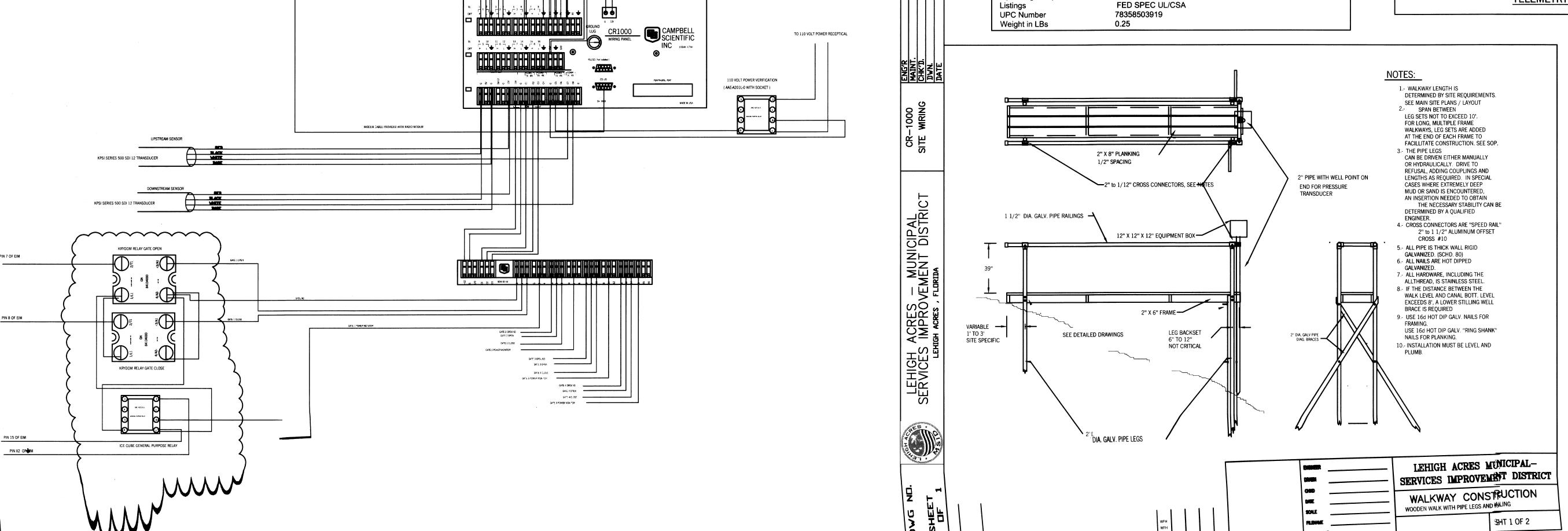
ISOMETRIC VIEW

SHEET 55/56

DRAWN BY:

RHT

CHECKED BY:



WASTE, SANITARY, AND SEPTIC TANK DISPOSAL CONTROLS

SOLID WASTE PRODUCED ON-SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS. SOLID WASTE IS TO BE HAULED OFF-SITE AND DISPOSED OF AT A LICENSED LAND FILL. NO SOLID MATERIALS INCLUDING BUILDING MATERIALS SHALL BE DISCARDED INTO SURFACE WATERS. SPECIFIC LOCATIONS ONSITE SHALL BE DESIGNATED FOR WASTE RECEPTACLES AND A COLLECTION SCHEDULE MUST BE ESTABLISHED. SPECIAL PROVISIONS SHALL BE MADE FOR THE COLLECTION, STORAGE, AND DISPOSAL OF TOXIC AND HAZARDOUS SUBSTANCES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL HEALTH AND SAFETY REGULATIONS.

WASTE COLLECTION AREAS ARE TO BE MAINTAINED AND ARE TO BE LOCATED IN LOCATIONS LEAST LIKELY TO BE AFFECTED BY CONCENTRATED STORMWATER RUNOFF.

CONTRACTOR SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS DURING WASTE, SANITARY, AND SEPTIC TANK DISPOSAL.

ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED ON SITE FOR WORKERS IN ACCORDANCE WITH APPLICABLE HEALTH REGULATIONS.

PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION

1. EROSION CONTROL PLAN - THE PERIMETER CONTROLS FOR THE SITE WILL BE INSTALLED AFTER THE CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF THE MEASURE, BUT BEFORE THE CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE SITE). PERIMETER CONTROLS WILL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE UPWARD OF THE PERIMETER CONTROL. TEMPORARY PERIMETER CONTROLS WILL BE REMOVED AFTER FINAL STABILIZATION. ALL CONTROLS SHALL BE CONSISTENT WITH THE REQUIREMENTS SET FORTH IN THE STATE WATER POLICY OF FLORIDA (CHAPTER 17-40, FLORIDA ADMINISTRATIVE CODE), THE APPLICABLE STORM WATER PERMITTING REQUIREMENTS OF THE FDEP OR SFWMD, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FDER, 1988) AND ANY SUBSEQUENT AMENDMENTS. THE DESCRIPTION AND IMPLEMENTATION OF CONTROLS SHALL ADDRESS THE FOLLOWING MINIMUM COMPONENTS

2, MAINTENANCE. THE CONTRACTOR SHALL ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION, AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN IN GOOD AND EFFECTIVE OPERATING CONDITION.

3. INSPECTIONS. QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT ALL POINTS OF DISCHARGE INTO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM AND ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, STORM WATER MANAGEMENT SYSTEMS, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.25 INCHES OR GREATER. WHERE SITES HAVE BEEN FINALLY STABILIZED, OR DURING SEASONAL ARID PERIODS IN ARID AREAS WITH AN AVERAGE ANNUAL RAINFALL OF 6 TO 10 INCHES AND SEMI-ARID AREAS (AREAS WITH AN AVERAGE RAINFALL OF 10 TO 20 INCHES) SUCH INSPECTION SHALL BE CONDUCTED AT LEAST

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORM WATER MANAGEMENT SYSTEM. THE STORM WATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL AND STORM WATER MANAGEMENT MEASURES ARE EFFECTIVE IN MEETING THE PERFORMANCE STANDARDS SET FORTH IN STATE WATER POLICY (CHAPTER 17-40 F.A.C.) AND THE APPLICABLE STORM WATER PERMITTING REGULATIONS OF THE FDEP OR SFWMD. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH IV.D.1 OF THIS PERMIT AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH IV.D.2 OF THIS PERMIT SHALL BE REVISED AS APPROPRIATE BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH IV.D.4B OF THE PERMIT SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THIS PERMIT.

4, RETENTION OF RECORDS

A. THE CONTRACTOR SHALL RETAIN COPIES OF STORM WATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE DIRECTOR AT ANY TIME.

B. THE CONTRACTOR SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

C. ADDRESSES. EXCEPT FOR THE SUBMITTAL OF NOI'S (SEE PART II.C. OF THIS PERMIT), ALL WRITTEN CORRESPONDENCE CONCERNING DISCHARGES IN ANY STATE, INDIAN LAND, OR FROM ANY FEDERAL FACILITY COVERED UNDER THIS PERMIT AND DIRECTED TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING THE SUBMITTAL OF INDIVIDUAL PERMIT APPLICATIONS, SHALL BE SENT TO THE ADDRESS OF THE APPROPRIATE REGIONAL OFFICE LISTED BELOW:

UNITED STATES EPA REGION IV, WATER MANAGEMENT DIVISION, (FPE-3) STORM WATER STAFF, 345 COURTLAND STREET N.E., ATLANTA, GA 30365

EROSION AND SEDIMENT CONTROLS

ACCEPTABLE PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, FENCE PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION. STABILIZATION SHALL BE INITIATED NO MORE THAN 14 DAYS IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTI Y CEASED

CONTRACTOR SHALL MAINTAIN A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION TEMPORARILY OR PERMANENTLY CEASES AND WHEN STABILIZATION IS INITIATED AND COMPLETED

ACCEPTABLE STRUCTURAL PRACTICES INCLUDE SILT FENCES, HAY BALES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, TURBIDITY BARRIERS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR

STRUCTURAL PRACTICES SHOULD BE PLACED ON UPLAND SOILS UNLESS SPECIFIED OTHERWISE BY THE FLORIDA WETLAND RESOURCE OR ENVIRONMENTAL RESOURCE PERMIT. FOR DRAINAGE LOCATIONS SERVING MORE THAN 5 ACRES OF DISTURBED LAND AT ONE TIME, A SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR

EQUIVALENT MEASURE MUST BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. FOR DRAINAGE LOCATIONS SERVING LESS THAN 5 ACRES OF DISTURBED LAND AT ONE TIME, SEDIMENT BASINS OR TRAPS SHOULD BE USED. SEDIMENT BASINS SHALL BE INSTALLED IN LOCATION OF PERMANENT STORM WATER RETENTION FACILITIES IF POSSIBLE. WHEN PERMANENT STORM WATER RETENTION PONDS ARE TO BE USED AS TEMPORARY SEDIMENT BASINS ACCUMULATED SEDIMENTS MUST BE COMPLETELY REMOVED AND EXCAVATION FOR TEMPORARY SEDIMENT BASIN SHALL NOT EXCEED

SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDE SLOPE AND DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA. STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT LOADING DURING THE COURSE OF CONSTRUCTION BY THE USE OF SEDIMENT FILTERS OR AN EXCAVATED IMPOUNDING AREA PROPERLY INSTALLED AND MAINTAINED AROUND THE STORM DRAIN DROP OR CURB INLET. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL PERMANENT STABILIZATION OF

EROSION CONTROL DEVICES TO BE INSTALLED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, JANUARY 2000 (OR

OFF-SITE VEHICLE TRACKING OF SEDIMENTS CONTROLS

INCHES ABOVE THE BOTTOM ELEVATION OF THE PERMANENT STORM WATER POND.

DISTURBED AREA TO KEEP POLLUTANTS FORM ENTERING THE CONVEYANCE SYSTEM.

OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATION OF DUST SHALL BE MINIMIZED. CALCIUM CHLORIDE, OILS OR OTHER CHEMICAL DUST CONTROL AGENTS SHOULD NOT BE USED ON CONSTRUCTION ROADS. AREAS SHALL BE PERIODICALLY WATERED TO MINIMIZE DUST.

DEMOLITION CONTROLS

CALCIUM CHLORIDE, OILS OR OTHER CHEMICAL DUST CONTROL AGENTS SHOULD NOT BE USED TO CONTROL DUST. AREAS SHALL BE PERIODICALLY WATERED TO MINIMIZE THE TRANSPORT OF AIRBORNE POLLUTANTS. WATER OR SLURRY USED TO CONTROL DUST MUST BE RETAINED ONSITE AND NOT ALLOWED TO RUN INTO SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS.

FERTILIZER AND PESTICIDE CONTROLS

A. ALL FERTILIZERS SHALL BE STORED IN A DRY STORAGE AREA PROTECTED FROM RAINFALL AND PONDING.

B. NO FERTILIZER CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL (AS DEFINED BY CHAPTER 576, FLORIDA STATUTES) SHALL BE APPLIED TO TURFGRASS, PASTURES, PADDOCKS, OR USED IN NURSERIES UNLESS JUSTIFIED BY A SOIL TEST. C. FERTILIZER CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL SHALL NOT BE APPLIED WITHIN 5 FEET OF THE EDGE OF WATER OR WITHIN 5 FEET OF A DRAINAGE FACILITY.

D. ALL FERTILIZER SHALL BE APPLIED SUCH THAT SPREADING OF FERTILIZER ON ALL IMPERVIOUS SURFACES IS MINIMIZED.

E. LIQUID FERTILIZERS CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL SHALL NOT BE APPLIED THROUGH AN IRRIGATION SYSTEM WITHIN 10 FEET OF THE EDGE OF WATER OR WITHIN 10 FEET OF A DRAINAGE FACILITY. F. LIQUID FERTILIZERS CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL SHALL NOT BE APPLIED THROUGH HIGH OR MEDIUM MIST APPLICATION OR DIRECTED SPRAY APPLICATION WITHIN 10 FEET OF THE EDGE OF WATER OR WITHIN 10 FEET OF A DRAINAGE FACILITY.

THE USE OF PESTICIDES, FUNGICIDES, OR HERBICIDES IS LIMITED TO PRODUCTS THAT MEET THE FOLLOWING CRITERIA:

A. MUST BE CONSISTENT WITH THE USDA-NRCS SOIL RATING FOR SELECTING PESTICIDES.

B. MUST HAVE THE MINIMUM POTENTIAL FOR LEACHING INTO GROUNDWATER OR LOSS FROM RUNOFF C. PRODUCTS MUST BE EPA APPROVED.

D. THE HALF-LIFE OF PRODUCTS USED SHALL NOT EXCEED SEVENTY (70) DAYS

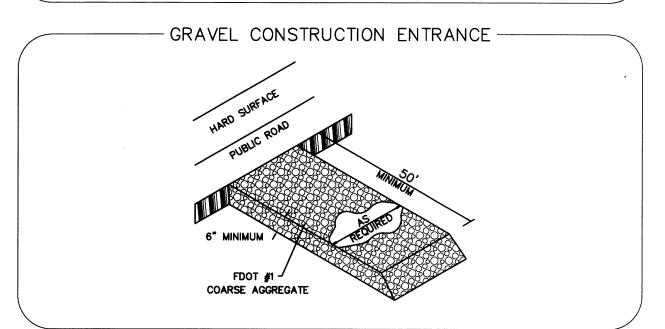
GENERAL NOTES ---

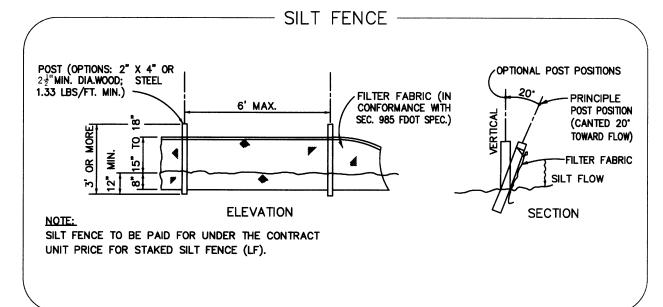
PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL THE SURROUNDING AREAS ARE

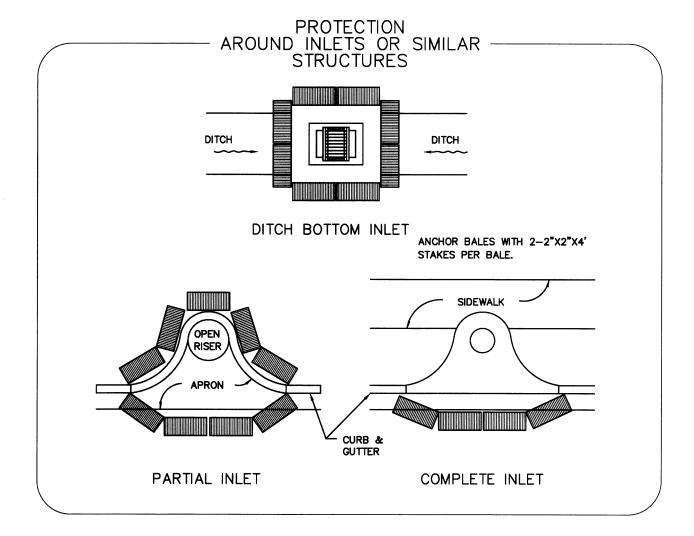
THE FOLLOWING MINIMUM REQUIREMENTS ARE RECOMMENDED: (REFERENCE FLORIDA DEVELOPMENT MANUAL, FDER, PPS 6-301 TO 6-500).

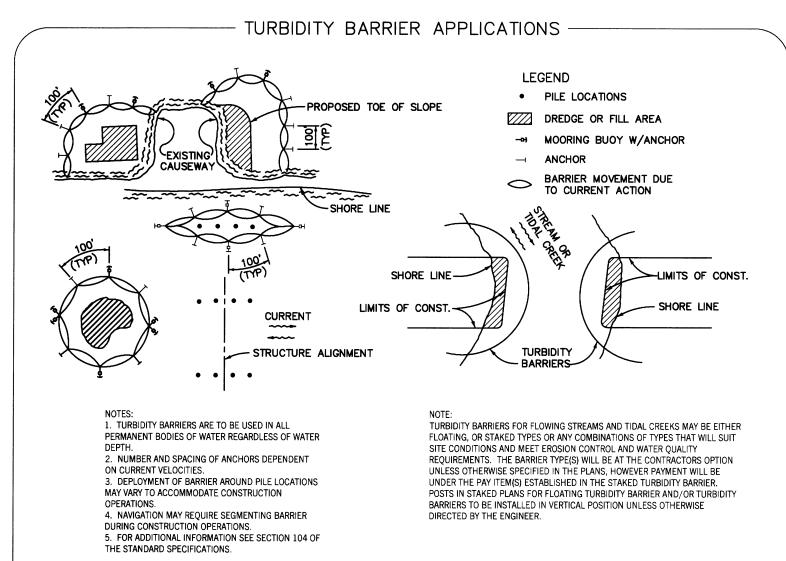
A) BMP 1.01 — TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
B) BMP 1.05 — STRAW BALE BARRIER
C) BMP 1.06 — SILT FENCE) BMP 1.08 - STORM INLET DRAIN PROTECTION

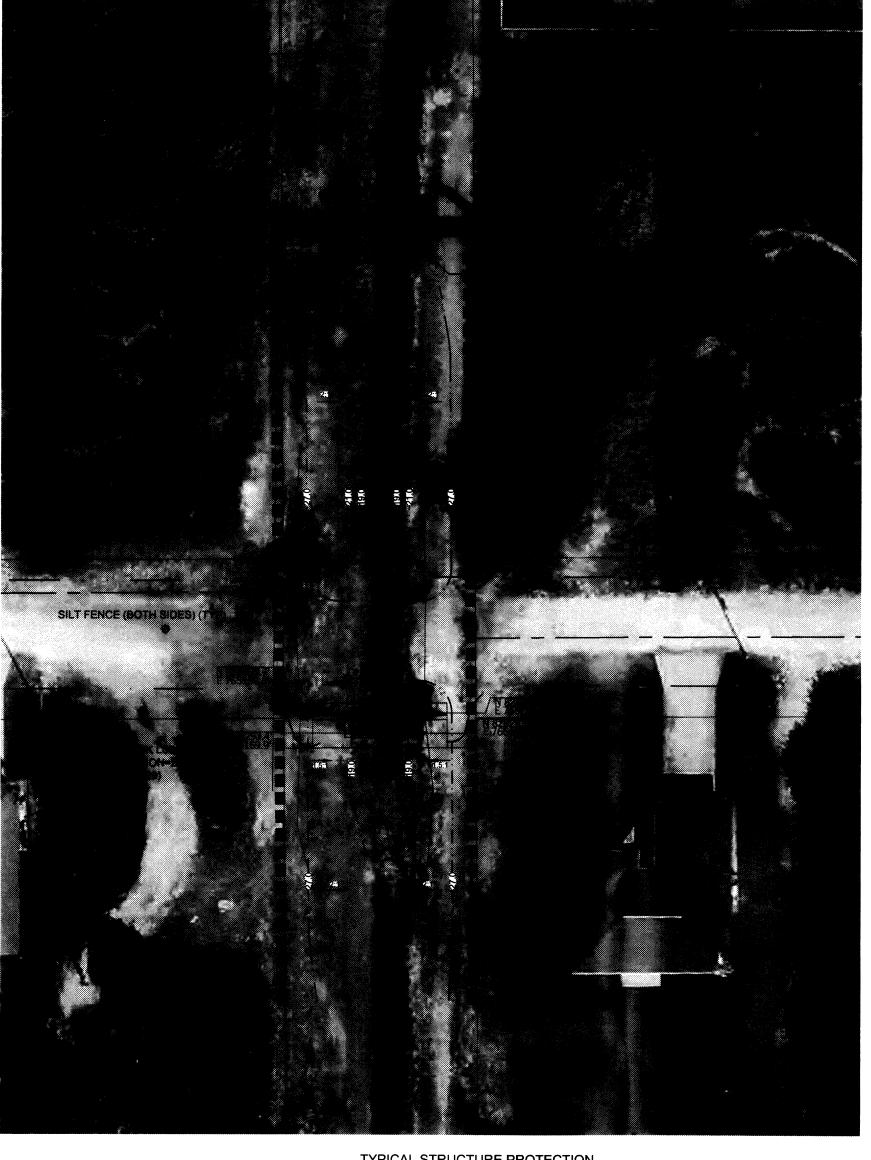
THESE BEST MANAGEMENT PRACTICES (BMP) ARE TYPICAL OF THE REQUIREMENTS FOR SOIL EROSION CONTROL PER DIVISION 3.7 OF THE COLLIER COUNTY LAND DEVELOPMENT CODE. THEY MAY NOT CONSTITUTE COMPLETE REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND SPECIFIC



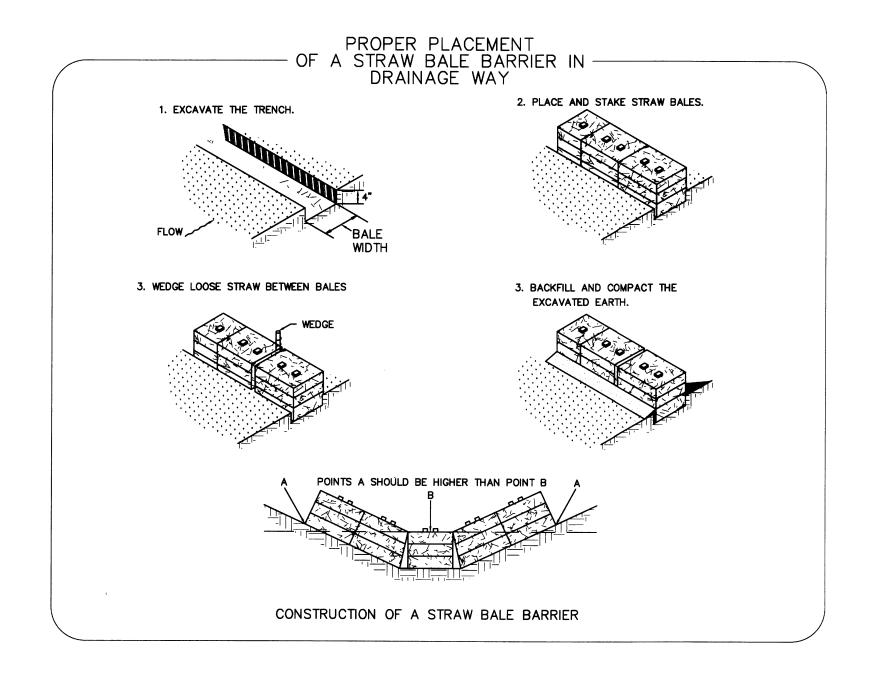








TYPICAL STRUCTURE PROTECTION SILT FENCE SHALL BE INSTALLED AT ALL ROW WHERE DISTURBANCE OCCURS GRAVEL CONSTRUCTION ENTRANCE SHALL BE INSTALLED IF TRACKING OCCURS ON PUBLIC ROADS





SHEET 56/56

DRAWN BY:

RHT

CHECKED BY: RHT

APPROVED BY:

RHT

DATE:

SEPT 2015

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