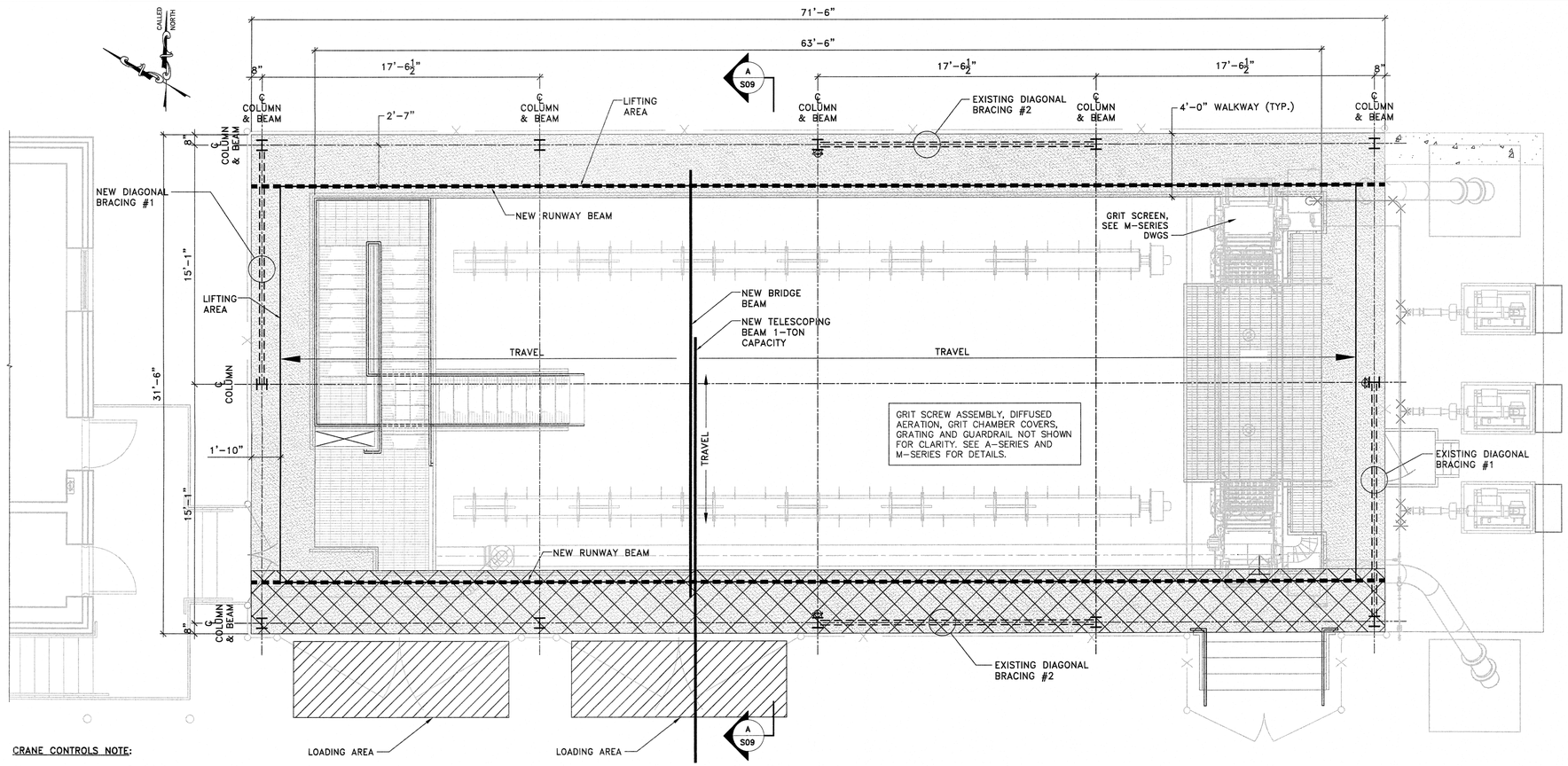


GRIT CHAMBER CRANE SYSTEM

SCALE: 1/4"=1'-0"

NOTE:
FOR CLARITY NEW AND EXISTING CONDITION SHOWN AS GREY, EXCEPT EXISTING MONORAIL FRAMING AND NEW CRANE SYSTEM.

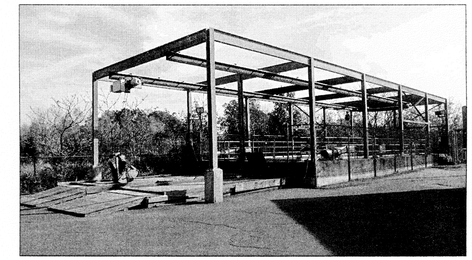


PHOTO 1 – GRIT CHAMBER – EXISTING MONORAIL SUPPORT FRAMING VIEW

NOTES:

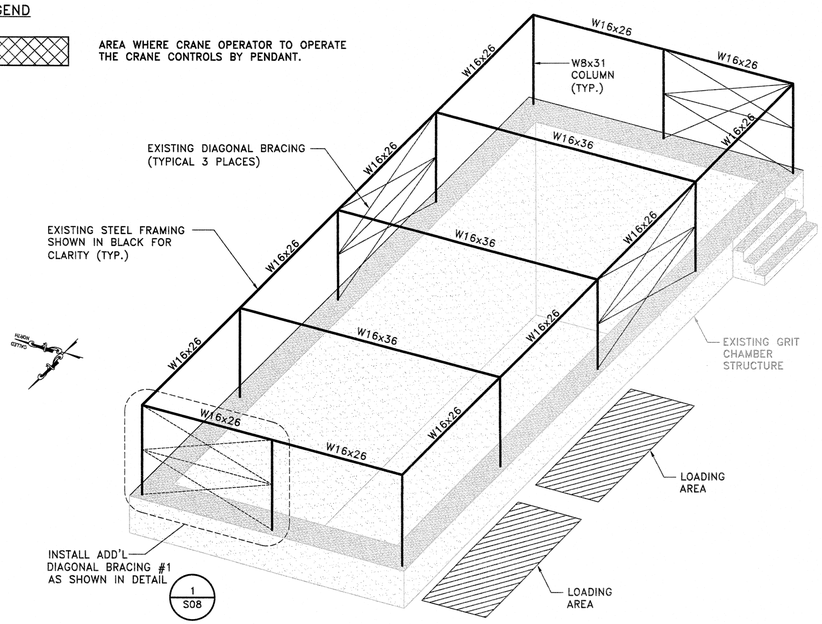
1. FOR MECHANICAL DEMOLITION AND WORK SEE D-SERIES DRAWINGS.
2. OVERHEAD MATERIAL HANDLING EQUIPMENT BY D.R. CORDELL & ASSOCIATES INC. OR EQUAL. SEE SPECIFICATION FOR DETAILS.
3. ALL CRANE SYSTEM INCLUDING HOIST, TELESCOPING BEAM, BRIDGE BEAM, BRIDGE CRANES, RUNWAY BEAMS, CONNECTION TO EXISTING FRAMING, CONTROLS AND ALL OTHER RELATED EQUIPMENT SHALL BE DESIGNED BY CRANE MANUFACTURER TO MEET CRITERIA AND DIMENSION SHOWN ON THE DRAWINGS AND SPECIFICATION.
4. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY PROFESSIONAL ENGINEER LICENSED IN NEW JERSEY FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT.
5. THE CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO SUBMITTING SHOP DRAWINGS OR ORDERING ANY EQUIPMENT.
6. ALL SHOWN DIMENSIONS AND ELEVATIONS ARE TAKEN FROM DRAWINGS ENTITLED "WOODBRIDGE AVENUE PUMPING STATION GRIT CHAMBER", CONTRACT NO. 9045, AS PREPARED BY SCHOOR ENGINEERING, INC. AND ROBERT LAWRENCE, P.E. DATED APRIL. 29, 1991.
7. ADDITIONAL DIAGONAL BRACING #1 SHALL MATCH EXISTING. ALL FRAMING MEMBERS & BOLTS SHALL BE HOT-DIPPED GALVANIZED. IN CASE WHEN FIELD WELDS ARE REQUIRED ALL WELDS SHALL BE CLEANED AND PROTECTED WITH PRIMER AND FINISH PAINT, SEE SPECIFICATION.
8. FOR GENERAL STRUCTURAL STEEL NOTES AND DETAILS, SEE SHEET S03.
9. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR ADD'L BRACING WITH FIELD MEASUREMENTS INCLUDED PRIOR TO ORDERING ANY MATERIAL.

CRANE CONTROLS NOTE:

CRANE SYSTEM SHALL BE CONTROLLED BY RADIO REMOTE CONTROL AS PRIMARY CONTROL MEANS AND FIXED LOCATION 10 BUTTON PUSH BUTTON STATION WITH PLUG-IN PENDANT CABLE WITH BRIDGE MOUNTED RECEPTACLE AS A SECONDARY CONTROL MEANS. SEE SPECIFICATIONS.

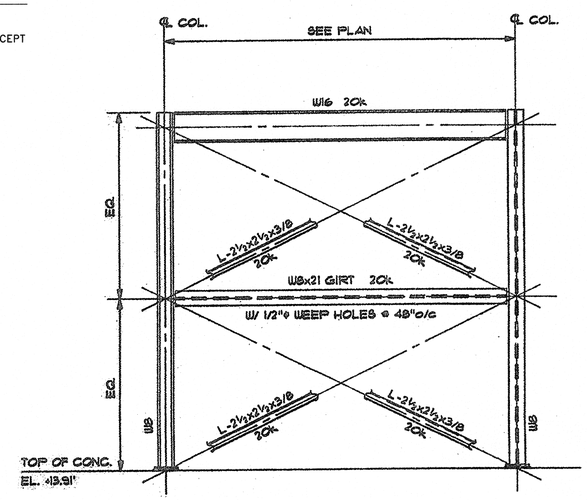
LEGEND

AREA WHERE CRANE OPERATOR TO OPERATE THE CRANE CONTROLS BY PENDANT.

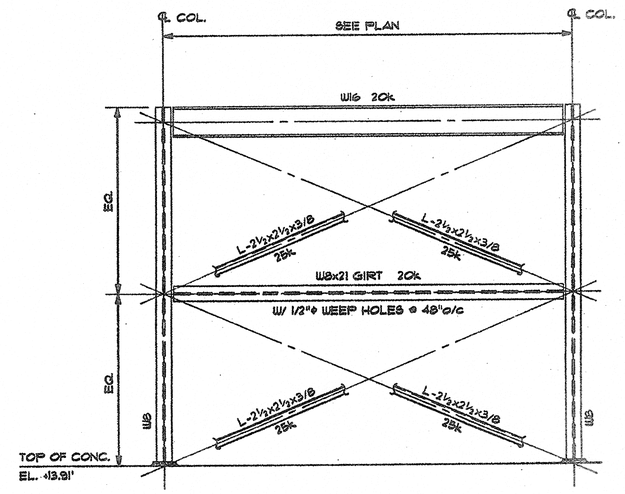


EXISTING MONORAIL SUPPORT FRAMING DIAGRAM

SCALE: N.T.S.



BRACED BAY #1



BRACED BAY #2

NOTE: ALL FORCES GIVEN ARE ON MEMBERS ARE IN TENSION & COMPRESSION AND ALL FORCES ARE IN KIPS. LOADS GIVEN ARE FROM WIND FORCES & CONNECTIONS MAY BE DESIGNED WITH 1/3 INCREASE IN ALLOWABLE STRESS. INCLUDE REACTIONS FROM VERTICAL LOADS IN CONNECTION DESIGN. ALL WORKING POINTS ARE AT CENTER OF COLUMNS & BEAMS.

DETAIL 1 EXISTING DIAGONAL BAY BRACING

SCALE: N.T.S.

APPROVED: 4/13/17
Richard A. Alaimo
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 13195

REVISIONS	DATE	BY

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GRIT CHAMBER UPGRADE

GRIT CHAMBER CRANE SYSTEM

SCALE: AS NOTED

CLIENT: WOODBRIDGE TOWNSHIP

PROJECT LOCATION: WOOBRIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

PROJECT NO.: B-0726-0023-000

CONTRACT NO.: 1230

DATE: APRIL 2017

DESIGNED BY: PG

DRAWN BY: PG

CHECKED BY:

DEPT. HEAD:

SHEET S08

FILE NO.:

Plotted: 4/10/2017 3:06 PM Last saved: 1/4/2017 1:30 PM File Name: K:\Projects\B0726002300\Drawings\Cdy-S08_Grit_Chamber_Crane_System.dwg