



TRI-TOWN WASTE DISPOSAL FACILITY  
208 SO. HIRAM RD  
HIRAM, ME 04041

Serving Towns of Baldwin, Hiram and Porter  
Tel: Station 207-625-7633 Office 207-625-4663



**INFORMATION FOR BIDDERS and BID PACKAGE**  
**for**  
**RENOVATION WORK FOR TRI-TOWN TRANSFER STATION**

The Tri-Town Waste Board of Directors (Board) request bids for the Renovation Work as described below and depicted on Plans attached.

Sealed Bids are due on **JULY 13, 2021 at 3:00 PM.** Bids should be delivered to the **HIRAM TOWN OFFICE, 16 Nasons Way, Hiram, ME 04041.** Completed Bid Form (attached) shall be submitted in clearly marked, sealed envelopes titled "**Tri-Town Transfer Station Renovations**".

There will be a **Mandatory Pre-Bid** on **JUNE 24 at 9:00 AM** at the **Tr-Town Transfer Station, 208 South Hiram Road, Hiram, ME 04041** where you can meet with members of the board and discuss the work to be done.

***Bidders or designated representative must be present for the site review to be considered for the project. You must sign in and provide your email address.***

During the bid process, all questions should be submitted in writing to Ron Silvia, Board Representative. Email to: [r\\_silvia@portermaine.org](mailto:r_silvia@portermaine.org). All questions will be answered via email and copied to all bidders attending the Pre-Bid. Deadline for questions is July 7. Final answers will be provided by July 9. Only questions answered in this format will be binding. Oral and other interpretations or clarifications will be without legal effect.

Bid documents are available electronically at no charge. Printed sets are available upon payment of \$50. All requests should be emailed to [r\\_silvia@portermaine.org](mailto:r_silvia@portermaine.org). Bid document packages can be available at the pre-bid meeting if arranged for in advance, otherwise allow 3 days' notice.

Board intends to vote to award the project at its meeting July 19. The Board reserves the right to accept or reject any and/or all bids that are not in the best interest of the residents of Baldwin, Hiram and Porter as determined by the Board.

The Successful bidder shall submit a Project Schedule and a Schedule of Values within 10 days following award and agrees to complete the work by **November 1, 2021**.

Monthly payments will be made based on percent complete of the work per approved Schedule of Values. A completed Form W-9 must be provided before any payment is made.

Certificate of Insurance from Contractor in at least minimum limits stated must be provided before contract is awarded. General Liability (\$1Mil per Occurrence), Automobile Liability (\$1Mil per Occurrence) and Worker's Compensation and Employer's Liability (\$500,000). Policies must be written on a per project basis. If any subcontractor is hired, Contractor will ensure they also meet the minimum limits before any work is started on site by Contractor's subcontractor.

It is understood that the Tri-Town Disposal Facility will remain fully operational during construction. The construction must be completed in sequence as detailed. Care must be taken to separate work zones from public zones. Tri-Town will make every effort to work with Contractor throughout the process, but Contractor is responsible for all safety measures and practices related to their work, their equipment, their employees, their subcontractors and their suppliers.

No work should be done on Saturday or Sunday during construction.

Contractor will verify all site elevations and report any discrepancies to the Board.

Bid Documents consist of this Information for Bidders (3 pages), Bid Form (1 page), Positioning of Compactors (1 page), Drop Chute for Compactors (1 page), Plans entitled PHASE 2: TRI-TOWN TRANSFER STATION prepared by Terradyn Consulting, LLC dated 5/11/21 (7 sheets), Plans entitled TRI-TOWN TRANSFER STATION prepared by Shelly Engineering, Inc. dated August 21, 2019 (4 sheets) and Plan #94664 Entitled Foundation, Concrete Pier prepared by Rick Lake Weighing Systems dated 4/3/06 (1 sheet).

### **SCOPE AND SEQUENCE OF WORK (per Bid Documents)**

1. Ramp for construction debris:
  - a. Install concrete blocks for side walls
  - b. Install appropriate gravel and compact.
  - c. Ramp should taper up to within 12" from the top of the concrete wall.
  
2. New area for recycling compactors:
  - a. Remove roof – store structural materials on site.
  - b. Remove existing concrete walls and pads.
  - c. Install (2) conduits for power and data to small (relocated) building.
  - d. Prepare site for new foundation and slab.

- e. Pour concrete foundation and slab.
  - f. Construct roof.
  - g. Move one recycling compactor to the new site and set up.
  - h. Move other recycling compactor to new site and set up.
  - i. Construct and install drop chute.
  - j. Disconnect power and move small building to new site by recycling compactors and set up.
  - k. Contractor option to pull new or reuse existing 240v power to existing panel to power compactors and lights, etc. in small building.
3. New Scales:
- a. Prepare on and off ramp at existing slab for scale installation per plan.
  - b. Maine Scale LLC will provide, install, and calibrate scale.
  - c. Maintain 120v electric power currently serving small building for the scale.



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**BID FORM**  
**for**  
**RENOVATION WORK FOR TRI-TOWN TRANSFER STATION**

Bidder: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

I have read and understand all information contained in the Information for Bidders and the Bid Documents issued by the Tri-Town Waste Board dated June 9, 2021 and agree to complete the work for the Lump Sum amount of:

\_\_\_\_\_ Bid in words \_\_\_\_\_ Bid in numbers

Furthermore, I agree to the terms and conditions included in the Information for Bidders including but not limited to providing all insurance and W-9 information, Project Schedule, and Schedule of Values. I also certify I am an authorized signer for my company or an individual owner.

Signed by: \_\_\_\_\_  
 Name Printed: \_\_\_\_\_  
 Title: \_\_\_\_\_

Bid is hereby accepted, and you are authorized to complete the work for the Bid Amount stated above.

\_\_\_\_\_ Ron Silvia, Board Representative \_\_\_\_\_ Date

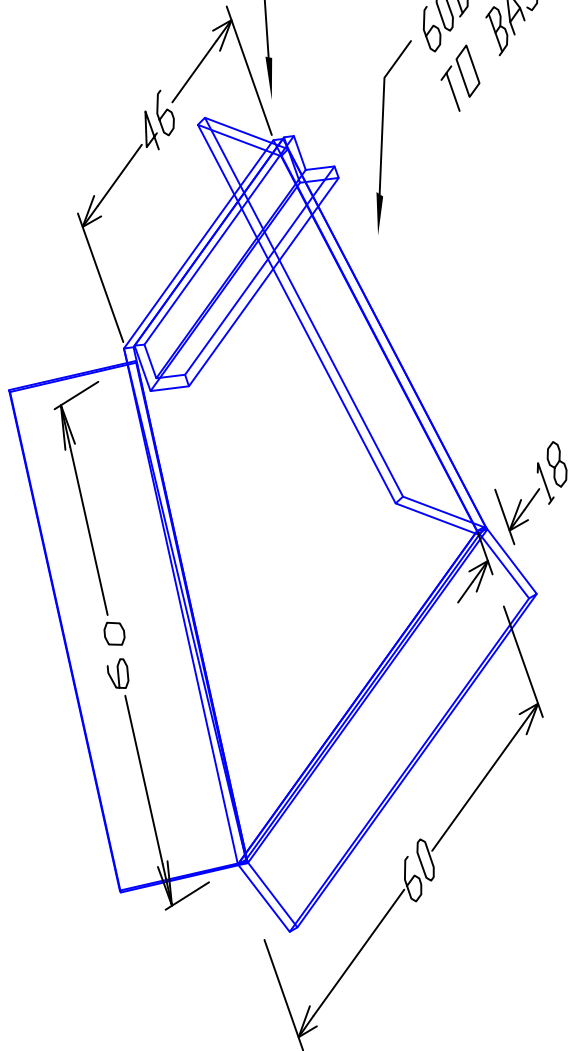


TRI-TOWN TRANSFER STATION

6/9/21

DROP CHUTE FOR RECYCLING COMPACTORS

1.5X1.5X.125 ANGLE IRON STOP  
SIDES ARE AT A  
60 DEGREE ANGLE  
TO BASE



# PHASE 2: TRI-TOWN TRANSFER STATION

## SOUTH HIRAM ROAD - HIRAM, MAINE

### PREPARED BY:

CIVIL ENGINEER:  
TERRADYN CONSULTANTS, LLC  
41 CAMPUS DR. SUITE 101  
NEW GLOUCESTER, MAINE 04260  
(207)926-5111

SURVEYOR:  
WAYNE T. WOOD & COMPANY  
GRAY, MAINE 04039  
(207) 657-3330

### APPLICANT:

TOWN OF HIRAM  
25 ALLARD CIRCLE  
HIRAM, MAINE 04047

### PROJECT PARCEL SITE

TOWN OF HIRAM TAX ASSESSOR'S MAP & LOT NUMBERS  
MAP R-1 LOT 15A



LOCATION MAP

1" = 200'

### SHEET INDEX

C-0.0	COVER SHEET & LOCATION MAP
S-1.0	BOUNDARY SURVEY
C-1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C-2.0	SITE LAYOUT PLAN
C-2.1	TRAFFIC PLAN
C-3.0	GRADING & EROSION CONTROL
C-4.0	EROSION CONTROL NOTES & DETAILS

### LEGEND

---	ABUTTING PROPERTY LINE
---	SITE PROPERTY LINE
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED CONTOUR
---	EXISTING STORMDRAIN
---	EXISTING OVERHEAD ELECTRIC & TELEPHONE
---	PROPOSED OVERHEAD ELECTRIC & TELEPHONE
---	EXISTING UNDERGROUND ELECTRIC & TELEPHONE
---	PROPOSED UNDERGROUND ELECTRIC & TELEPHONE
---	EXISTING EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
---	EXISTING EDGE OF GRAVEL
---	PROPOSED EDGE OF GRAVEL
---	EXISTING TREE LINE
---	CHAIN LINK FENCE
---	SILT BARRIER
---	EXISTING UTILITY POLE
+	EXISTING SPOT GRADE
-	PROPOSED SPOT GRADE
+	EXISTING BUILDING
+	PROPOSED BUILDING
---	WETLAND AREA
---	PROPOSED PAVEMENT

DATE:	
P.E.:	

NO.	DATE	REVISIONS	APP'D BY
1	5/11/2021	REVISED PER TOWN REVIEW	

585 CONGRESS STREET  
SUITE 201  
PORTLAND, ME 04102

41 CAMPUS DRIVE  
SUITE 101  
NEW GLOUCESTER, ME 04260

OFFICE: (207) 926-5111 FAX: (207) 221-1317  
www.terradynconsultants.com

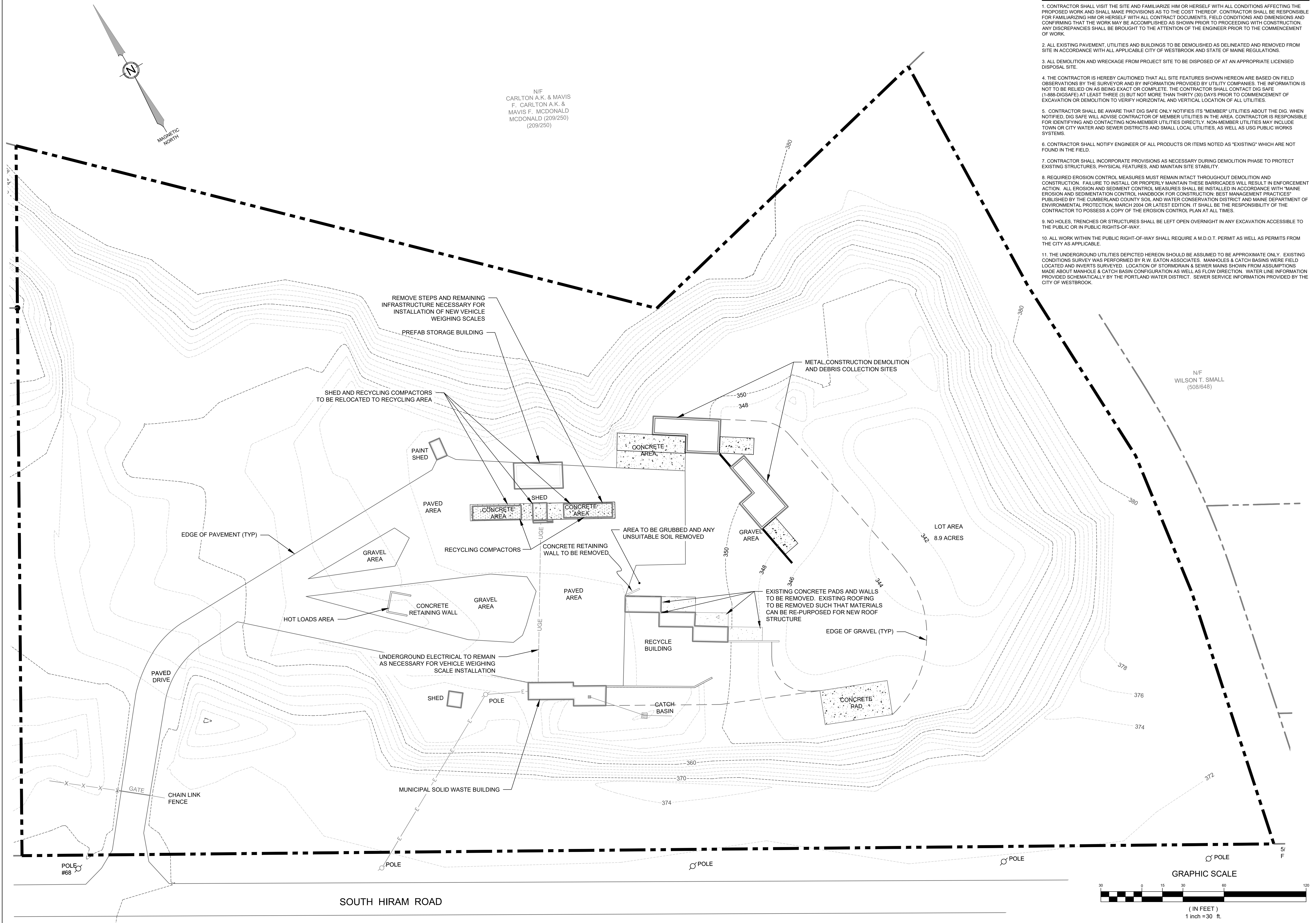
**TERRADYN CONSULTANTS, LLC**  
Civil Engineering | Land Planning | Stormwater Design | Environmental Permitting

PERMIT DRAWING  
NOT FOR CONSTRUCTION

PROJECT:	PHASE 2: TRI-TOWN TRANSFER STATION
SHEET TITLE:	COVER/LOCATION MAP
CLIENT:	TRI-TOWN TRANSFER STATION 25 ALLARD CIRCLE HIRAM, ME 04047
DATE:	3/30/2021
SCALE:	
DESIGNED:	
JOB NO.:	2127
FILE:	2103 C.DWG
SHEET	C-0.0

**DEMOLITION NOTES**

1. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM OR HERSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM OR HERSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL EXISTING PAVEMENT, UTILITIES AND BUILDINGS TO BE DEMOLISHED AS DELINEATED AND REMOVED FROM SITE IN ACCORDANCE WITH ALL APPLICABLE CITY OF WESTBROOK AND STATE OF MAINE REGULATIONS.
3. ALL DEMOLITION AND WRECKAGE FROM PROJECT SITE TO BE DISPOSED OF AT AN APPROPRIATE LICENSED DISPOSAL SITE.
4. THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-DIGSAFE) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.
5. CONTRACTOR SHALL BE AWARE THAT DIG SAFE ONLY NOTIFIES ITS "MEMBER" UTILITIES ABOUT THE DIG. WHEN NOTIFIED, DIG SAFE WILL ADVISE CONTRACTOR OF MEMBER UTILITIES IN THE AREA. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND CONTACTING NON-MEMBER UTILITIES DIRECTLY. NON-MEMBER UTILITIES MAY INCLUDE TOWN OR CITY WATER AND SEWER DISTRICTS AND SMALL LOCAL UTILITIES, AS WELL AS USG PUBLIC WORKS SYSTEMS.
6. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND IN THE FIELD.
7. CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY DURING DEMOLITION PHASE TO PROTECT EXISTING STRUCTURES, PHYSICAL FEATURES, AND MAINTAIN SITE STABILITY.
8. REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT DEMOLITION AND CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PUBLISHED BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 2004 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.
9. NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.
10. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL REQUIRE A M.D.O.T. PERMIT AS WELL AS PERMITS FROM THE CITY AS APPLICABLE.
11. THE UNDERGROUND UTILITIES DEPICTED HEREON SHOULD BE ASSUMED TO BE APPROXIMATE ONLY. EXISTING CONDITIONS SURVEY WAS PERFORMED BY R.W. EATON ASSOCIATES. MANHOLES & CATCH BASINS WERE FIELD LOCATED AND INVERTS SURVEYED. LOCATION OF STORMDRAIN & SEWER MAINS SHOWN FROM ASSUMPTIONS MADE ABOUT MANHOLE & CATCH BASIN CONFIGURATION AS WELL AS FLOW DIRECTION. WATER LINE INFORMATION PROVIDED SCHEMATICALLY BY THE PORTLAND WATER DISTRICT. SEWER SERVICE INFORMATION PROVIDED BY THE CITY OF WESTBROOK.

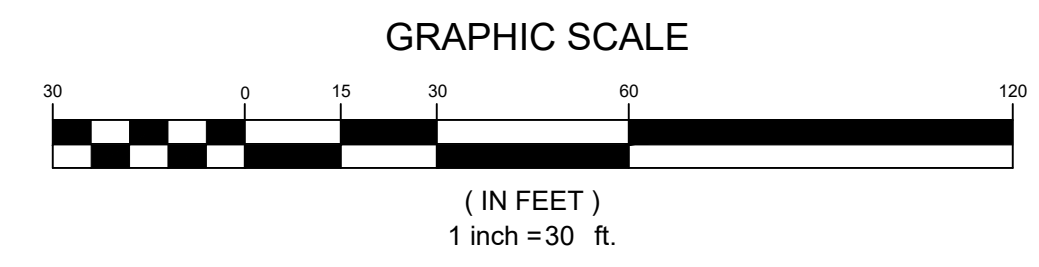


DATE:	
P.E.:	
NO.	1
DATE	5/11/2021
REVISED PER TOWN REVIEW	
REVISIONS	
APP'D BY	

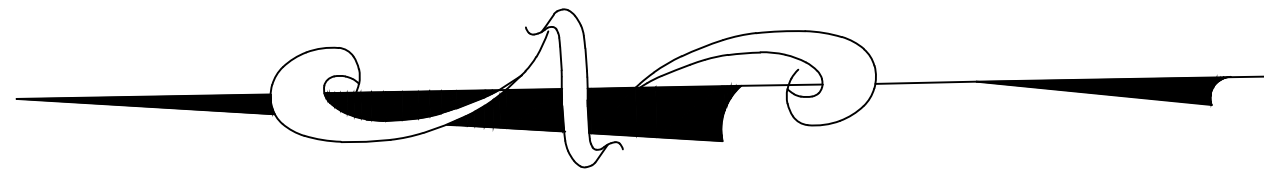
565 CONGRESS STREET  
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PERMIT DRAWING  
NOT FOR CONSTRUCTION

PROJECT:	PHASE 2: TRI-TOWN TRANSFER STATION
SHEET TITLE:	EXISTING CONDITIONS & DEMOLITION PLAN
CLIENT:	TRI-TOWN TRANSFER STATION
DATE:	3/30/2021
SCALE:	
DESIGNED:	
JOB NO.:	2127
FILE:	
SHEET	C-1.0

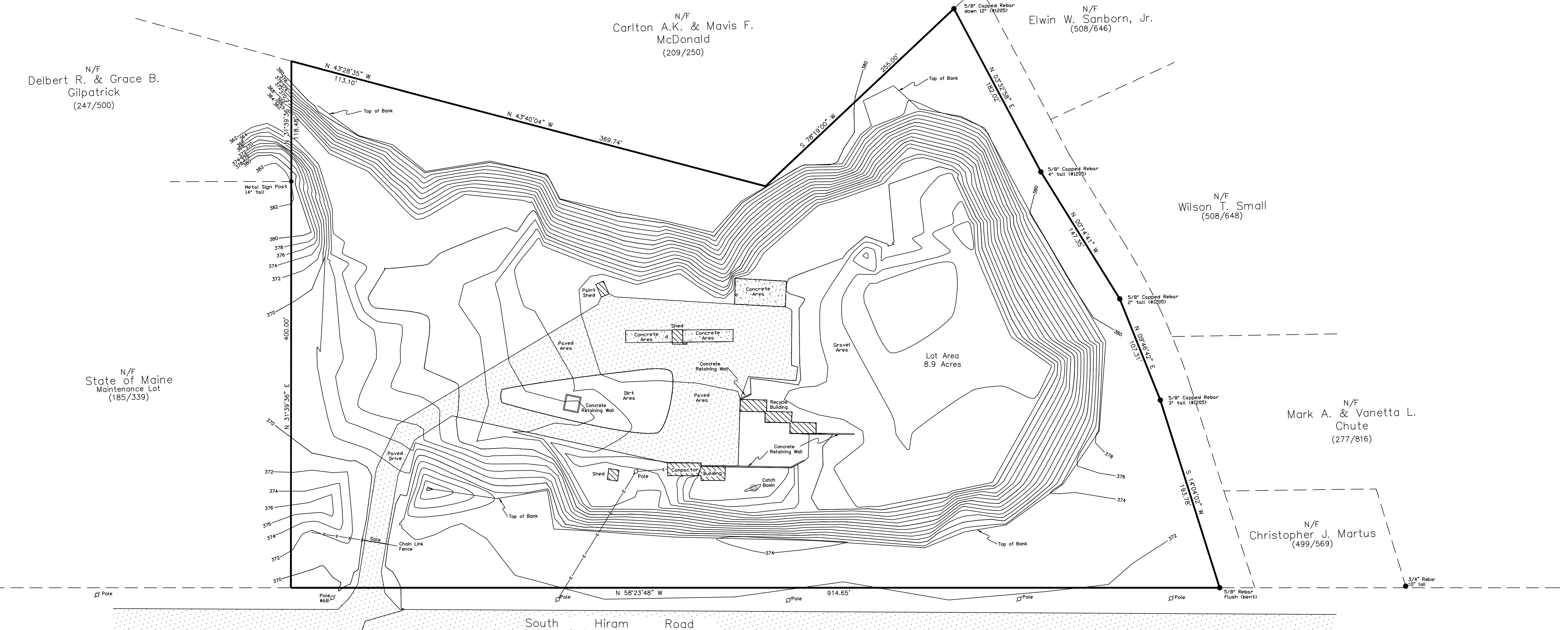






PLAN REFERENCES

1. Plan of Land of School Administrative District #55, 115 & 213 South Hiram Road, Oxford County, Hiram, Maine by Land Services Inc. dated 10-03-05.
2. Site Plan of Proposed Solid Waste Transfer Station~ South Hiram Road, South Hiram, Maine for Tri-Town Waste Disposal Board by Sebago Technics, Inc. dated 11/03/87.



N/F  
Delbert R. & Grace B.  
Gilpatrick  
(247/500)

N/F  
Carlton A.K. & Mavis F.  
McDonald  
(209/250)

N/F  
Elwin W. Sanborn, Jr.  
(508/646)

N/F  
Wilson T. Small  
(508/648)

N/F  
State of Maine  
Maintenance Lot  
(185/339)

N/F  
Mark A. & Vanetta L.  
Chute  
(277/816)

N/F  
Christopher J. Martus  
(499/569)

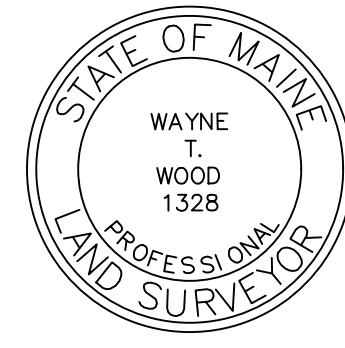
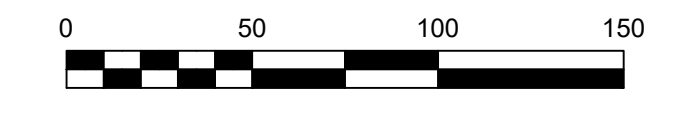
South Hiram Road

NOTES

1. Owners of record are the Towns of Baldwin, Hiram and Porter by deeds recorded in the Oxford County West Registry of Deeds in book 307 pages 331, 332 and 333.
2. Boundaries shown on this plan were taken from the plan in reference 2
3. All bearings are Magnetic of the year 1987 as per the plan in reference 2.
4. Topographic information on this plan is based upon an assumed USGS datum as per the plan in reference 2.
5. Ditches, the catch basin and other drainage ways were located with significant snow on the ground and should be field verified when the snow has melted.
6. This property is shown as Lot 15A on Hiram Tax Map R-1.

LEGEND

- Iron Pipe or Pin Found as Noted
- ⊕ Utility Pole
- Concrete Retaining Wall
- ▨ Existing Building
- Overhead Utility Lines
- ▨ Paved Area
- ▨ Concrete Area
- Existing Contours
- N/F Now or Formerly
- (209/250) Deed Book and Page Reference



Existing Conditions  
At  
208 South Hiram Road  
In  
Hiram, Maine  
For  
Terradyn Consultants, LLC.  
P.O. Box 339 ~ New Gloucester, ME 04260

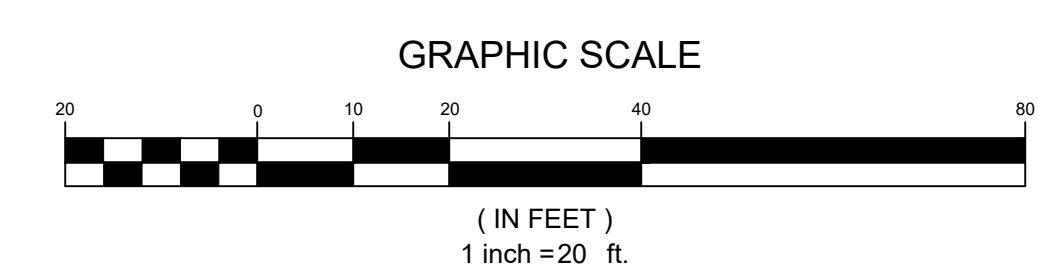
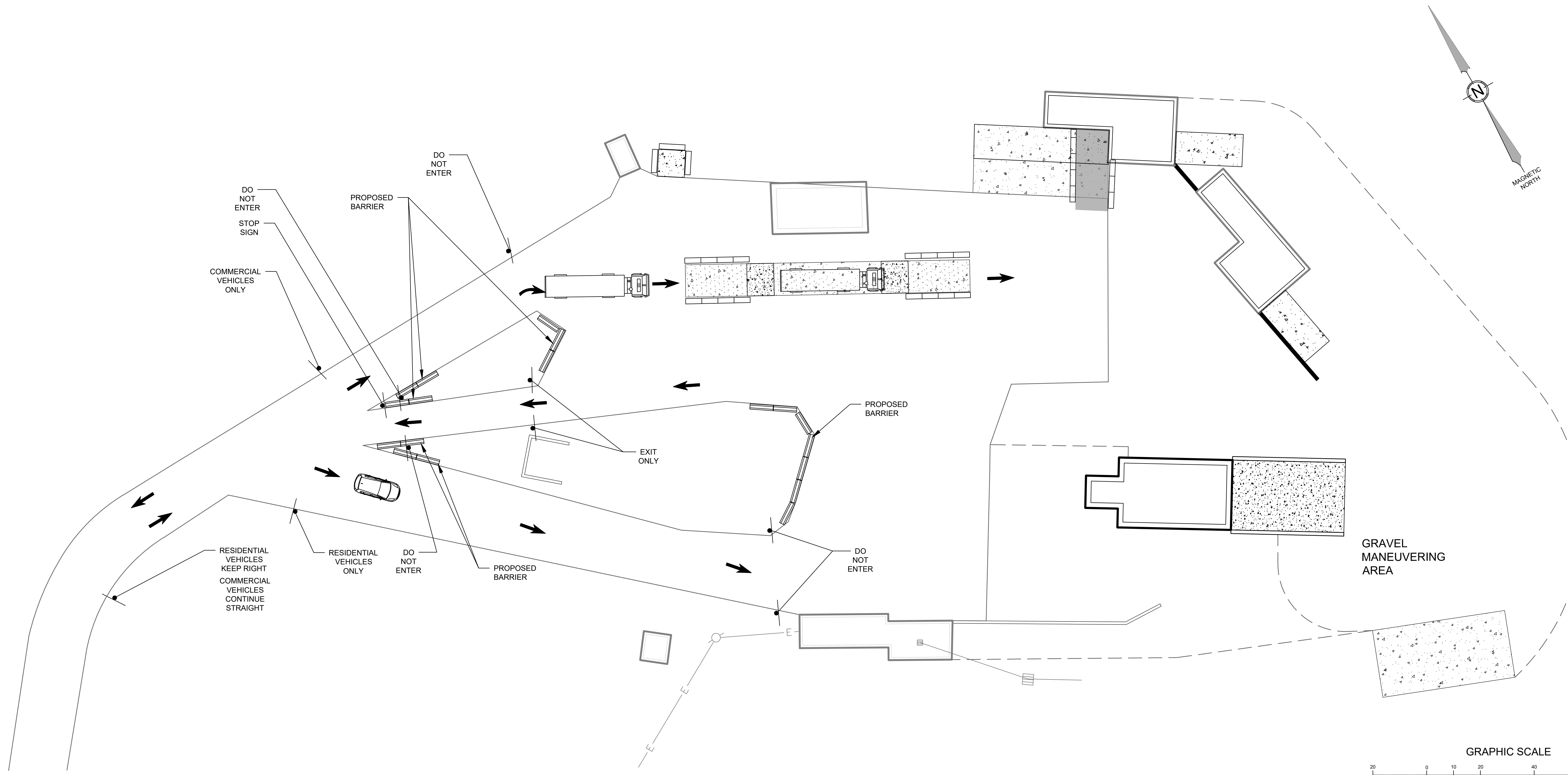
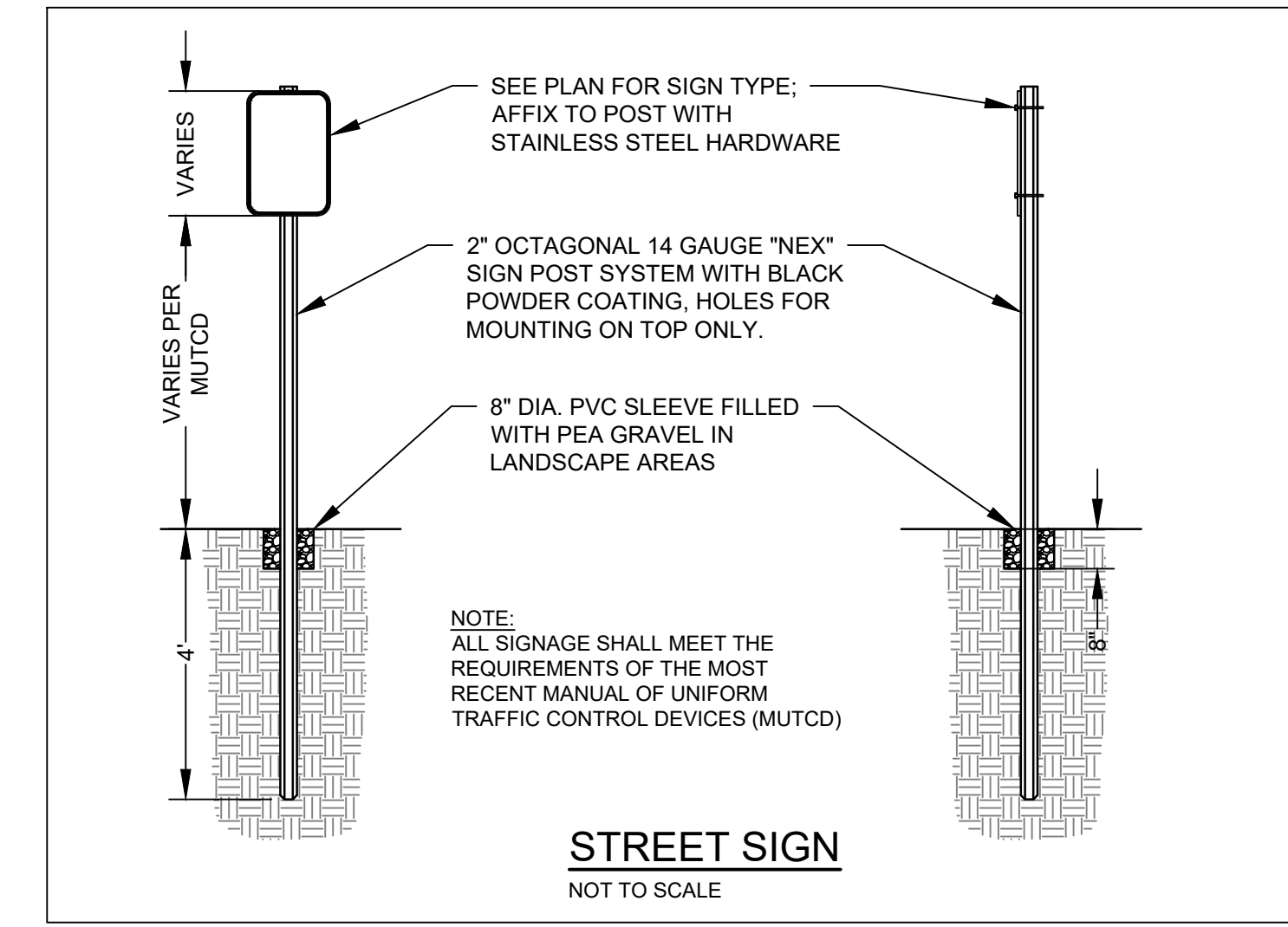
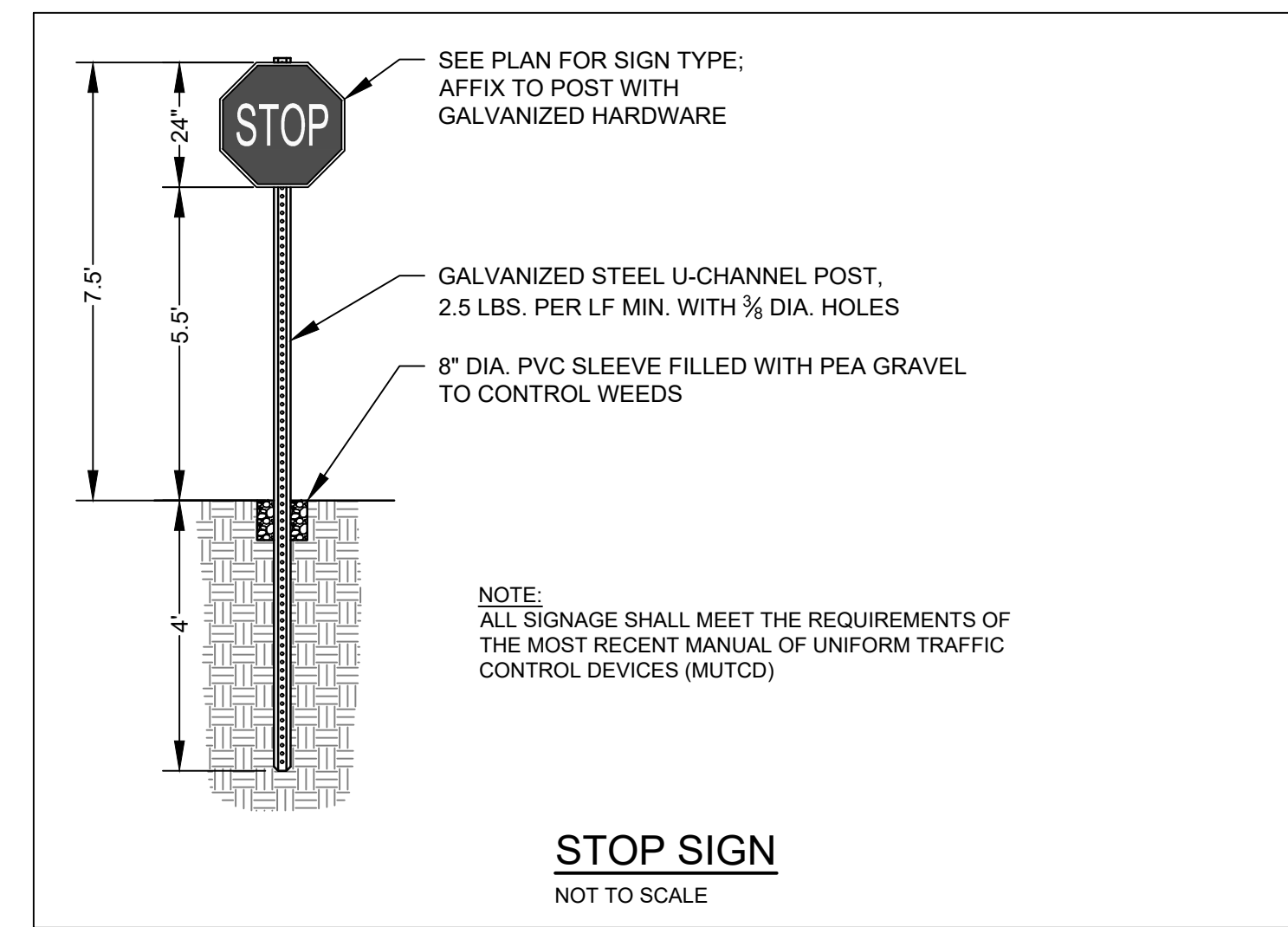
**WAYNE T. WOOD & CO.**

Gray, Maine 04039 (207)657-3330  
Drwn. By: KLV/WTW Date  
Scale: 1" = 50' March 2014  
Checked By: WTW Job No.  
Bk.No. 136 214005



**NOTES:**

1. ALL TRAFFIC SIGNAGE SHALL CONFORM TO MANUAL OF UNIFORM TRAFFIC CONTROL (MUTCD) MOST RECENT EDITION.
2. TRAFFIC MOVEMENT SIGNAGE WITHIN FACILITY BY OWNERS OPERATORS.



NO.	DATE	REVISIONS
1	5/11/2021	REVISED PER TOWN REVIEW

DATE: \_\_\_\_\_  
 P.E.: \_\_\_\_\_

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 PORTLAND, ME 04102

41 CAMPUS DRIVE  
 SUITE 101  
 NEW GLOUCESTER, ME 04260

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 NOT FOR CONSTRUCTION

PROJECT: PHASE 2: TRI-TOWN TRANSFER STATION  
 SOUTH HIRAM ROAD

SHEET TITLE: TRAFFIC PLAN

CLIENT: TRI-TOWN TRANSFER STATION  
 25 ALLARD CIRCLE  
 HIRAM, ME 04047

DATE: 3/30/2021  
 SCALE:  
 DESIGNED:  
 JOB NO: 2127  
 FILE:  
 SHEET

**C-2.1**



# EROSION AND SEDIMENT CONTROL PLAN

**PRE-CONSTRUCTION PHASE**  
 A PERSON WHO CONDUCTS, OR CAUSES TO BE CONDUCTED, AN ACTIVITY THAT INVOLVES FILLING, DISPLACING OR EXPOSING SOIL OR OTHER EARTHEN MATERIALS SHALL TAKE MEASURES TO PREVENT UNREASONABLE EROSION OF SOIL OR SEDIMENT BEYOND THE PROJECT SITE OR INTO A PROTECTED NATURAL RESOURCE AS DEFINED IN 38 MRSA § 480-B. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE THE ACTIVITY BEGINS. MEASURES MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL THE SITE IS PERMANENTLY STABILIZED. ADEQUATE AND TIMELY TEMPORARY AND PERMANENT STABILIZATION MEASURES MUST BE TAKEN. THE SITE MUST BE MAINTAINED TO PREVENT UNREASONABLE EROSION AND SEDIMENTATION. MINIMIZE DISTURBED AREAS AND PROTECT NATURAL DOWNGRADIENT BUFFER AREAS TO THE EXTENT PRACTICABLE.

**BMP CONSTRUCTION PHASE**  
**A. SEDIMENT BARRIERS.** PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE EDGE OF ANY DOWNGRADIENT DISTURBED AREA AND ADJACENT TO ANY DRAINAGE CHANNELS WITHIN THE PROPOSED DISTURBED AREA. MAINTAIN THE SEDIMENT BARRIERS UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.

**B. CONSTRUCTION ENTRANCE.** PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT THE INTERSECTION WITH THE PROPOSED ACCESS DRIVE AND THE EXISTING ROADWAY TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

**C. RIPRAP.** SINCE RIPRAP IS USED WHERE EROSION POTENTIAL IS HIGH, CONSTRUCTION MUST BE SEQUENCED SO THAT THE RIPRAP IS PUT IN PLACE WITH THE MINIMUM DELAY. DISTURBANCE OF AREAS WHERE RIPRAP IS TO BE PLACED SHOULD BE UNDERTAKEN ONLY WHEN FINAL PREPARATION AND PLACEMENT OF THE RIPRAP CAN FOLLOW IMMEDIATELY BEHIND THE INITIAL DISTURBANCE. WHERE RIPRAP IS USED FOR OUTLET PROTECTION, THE RIPRAP SHOULD BE PLACED BEFORE OR IN CONJUNCTION WITH THE CONSTRUCTION OF THE PIPE OR CHANNEL SO THAT IT IS IN PLACE WHEN THE PIPE OR CHANNEL BEGINS TO OPERATE. MAINTAIN TEMPORARY RIPRAP, SUCH AS TEMPORARY CHECK DAMS UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.

**D. TEMPORARY STABILIZATION.** STABILIZE WITH TEMPORARY SEEDING, MULCH, OR OTHER NON-ERODABLE COVER ANY EXPOSED SOILS THAT WILL REMAIN UNWORKED FOR MORE THAN 14 DAYS EXCEPT, STABILIZE AREAS WITHIN 100 FEET OF A WETLAND OR WATERBODY WITHIN 7 DAYS OR PRIOR TO A PREDICTED STORM EVENT, WHICHEVER COMES FIRST. IF HAY OR STRAW MULCH IS USED, THE APPLICATION RATE MUST BE 2 BALES (70-90 POUNDS) PER 1000 SF OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE TO COVER 75 TO 90% OF THE GROUND SURFACE. HAY MULCH MUST BE KEPT MOIST OR ANCHORED TO PREVENT WIND BLOWING. AN EROSION CONTROL BLANKET OR MAT SHALL BE USED AT THE BASE OF GRASSED WATERWAYS, STEEP SLOPES (15% OR GREATER) AND ON ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS AND WETLANDS. GRADING SHALL BE PLANNED SO AS TO MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL SOIL EXPOSURE AND FINAL GRADING. ON LARGE PROJECTS THIS SHOULD BE ACCOMPLISHED BY PHASING THE OPERATION AND COMPLETING THE FIRST PHASE UP TO FINAL GRADING AND SEEDING BEFORE STARTING THE SECOND PHASE, AND SO ON.

**E. VEGETATED WATERWAY.** UPON FINAL GRADING, THE DISTURBED AREAS SHALL BE IMMEDIATELY SEEDING TO PERMANENT VEGETATION AND MULCHED AND WILL NOT BE USED AS OUTLETS UNTIL A DENSE, VIGOROUS VEGETATIVE COVER HAS BEEN OBTAINED. ONCE SOIL IS EXPOSED FOR WATERWAY CONSTRUCTION, IT SHOULD BE IMMEDIATELY SHAPED, GRADED AND STABILIZED. VEGETATED WATERWAYS NEED TO BE STABILIZED EARLY DURING THE GROWING SEASON (PRIOR TO SEPTEMBER 15). IF FINAL SEEDING OF WATERWAYS IS DELAYED PAST SEPTEMBER 15, EMERGENCY PROVISIONS SUCH AS SOD OR RIPRAP MAY BE REQUIRED TO STABILIZE THE CHANNEL. WATERWAYS SHOULD BE FULLY STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

**PERMANENT STABILIZATION DEFINED**  
**A. SEEDING AREAS.** FOR SEEDING AREAS, PERMANENT STABILIZATION MEANS AN 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

**B. SODDED AREAS.** FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.

**C. PERMANENT MULCH.** FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.

**D. RIPRAP.** FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF A WELL-GRADED GRAVEL OR APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP. STONE MUST BE SIZED APPROPRIATELY. IT IS RECOMMENDED THAT ANGULAR STONE BE USED.

**E. AGRICULTURAL USE.** FOR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL PURPOSES (E.G., PIPELINES ACROSS CROP LAND), PERMANENT STABILIZATION MAY BE ACCOMPLISHED BY RETURNING THE DISTURBED LAND TO AGRICULTURAL USE.

**F. PAVED AREAS.** FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.

**G. DITCHES, CHANNELS, AND SWALES.** FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL-GRADED RIPRAP, OR WITH ANOTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN-CUTTING OF THE CHANNEL.

**GENERAL CONSTRUCTION PHASE**  
 THE FOLLOWING EROSION CONTROL MEASURES SHALL BE FOLLOWED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION OF THIS PROJECT:

**A. ALL TOPSOIL SHALL BE COLLECTED, STOCKPILED, SEEDING WITH RYE AT 3 POUNDS/1,000 SF AND MULCHED, AND REUSED AS REQUIRED.** SILT FENCING SHALL BE PLACED DOWN GRADIENT FROM THE STOCKPILED LOAM. STOCKPILE TO BE LOCATED BY DESIGNATION OF THE OWNER AND INSPECTING ENGINEER.

**B. THE INSPECTING ENGINEER AT HIS/HER DISCRETION, MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AND/OR SUPPLEMENTAL VEGETATIVE PROVISIONS TO MAINTAIN STABILITY OF EARTHWORKS AND FINISH GRADED AREAS.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY SUPPLEMENTAL MEASURES AS DIRECTED BY THE INSPECTING ENGINEER. FAILURE TO COMPLY WITH THE ENGINEER'S DIRECTIONS WILL RESULT IN DISCONTINUATION OF CONSTRUCTION ACTIVITIES.

**C. EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLAN OVER ALL FINISH SEEDING AREAS AS SPECIFIED ON THE DESIGN PLANS.**

**D. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE ADEQUATELY STABILIZED.**

**E. ALL EROSION, AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.**

**F. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIALS.**

**G. AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL.**

**H. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.** FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

**I. ALL FILLS SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.**

**J. EXCEPT FOR APPROVED LANDFILLS OR NON-STRUCTURAL FILLS, FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.**

**K. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILL SLOPES OR STRUCTURAL FILLS.**

**L. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.**

**M. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED APPROPRIATELY.**

**N. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.**

**O. REMOVE ANY TEMPORARY CONTROL MEASURES, SUCH AS SILT FENCE, WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. REMOVE ANY ACCUMULATED SEDIMENTS AND STABILIZE.**

**PERMANENT VEGETATION**  
 PERMANENT VEGETATIVE COVER SHOULD BE ESTABLISHED ON DISTURBED AREAS WHERE PERMANENT, LONG LIVED VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE ENVIRONMENT.

**SEEDBED PREPARATION**  
**A. GRADE AS FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.**

**B. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF MAINE SOIL TESTING LABORATORY. SOIL SAMPLES SHOULD BE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQ. FT.).**

**C. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHOULD BE ON THE GENERAL CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE. D. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION, REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.**

**E. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE TILLED AND FIRMED AS ABOVE.**

**F. PERMANENT SEEDING SHOULD BE MADE 45 DAYS PRIOR TO THE FIRST KILLING FROST OR AS A DORMANT SEEDING WITH MULCH AFTER THE FIRST KILLING FROST AND BEFORE SNOWFALL. WHEN CROWN VETCH IS SEEDING IN LATER SUMMER, AT LEAST 35% OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, MULCH ACCORDING TO THE TEMPORARY MULCHING BMP AND OVERWINTER STABILIZATION AND CONSTRUCTION TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.**

**G. FOLLOWING SEED BED PREPARATION, SWALE AREAS, FILL AREAS AND BACK SLOPES SHALL BE SEEDING AT A RATE OF 3 LBS./1,000 S.F. WITH A MIXTURE OF 35% CREEPING RED FESCUE, 6% RED TOP, 24% KENTUCKY BLUEGRASS, 10% PERENNIAL RYEGRASS, 20% ANNUAL RYEGRASS AND 5% WHITE DUTCH CLOVER.**

**I. AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.**

**J. AREAS WHICH CANNOT BE SEEDING WITHIN THE GROWING SEASON SHALL BE MULCHED FOR OVER-WINTER PROTECTION AND THE AREA SHOULD BE SEEDING AT THE BEGINNING OF THE GROWING SEASON.**

**WINTER CONSTRUCTION PHASE**  
 IF AN AREA IS NOT STABILIZED WITH TEMPORARY OR PERMANENT MEASURES BY NOVEMBER 15, THEN THE SITE MUST BE PROTECTED WITH ADDITIONAL STABILIZATION MEASURES.

**A. PERMANENT STABILIZATION CONSISTS OF AT LEAST 90% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.**

**B. DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH.**

**C. APPLY HAY MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.**

**D. USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR ALL SLOPES GREATER THAN 8% OR OTHER AREAS EXPOSED TO DIRECT WIND.**

**E. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGEWAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.**

**F. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.**

**G. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SO THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.**

**H. AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.**

**I. TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.**

**J. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THAT SAME DAY.**

**K. IF SNOWFALL IS GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDING AND MULCHED.**

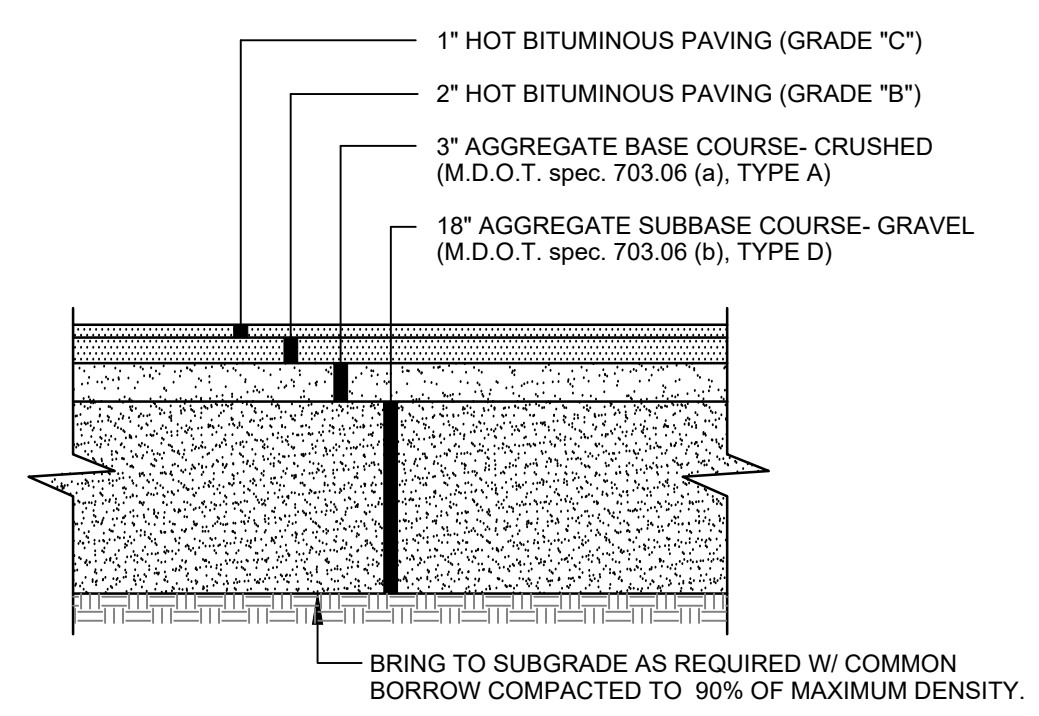
**L. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.**

**M. ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE DEPARTMENT.**

**MAINTENANCE AND INSPECTION PHASE**  
**A. MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE.**

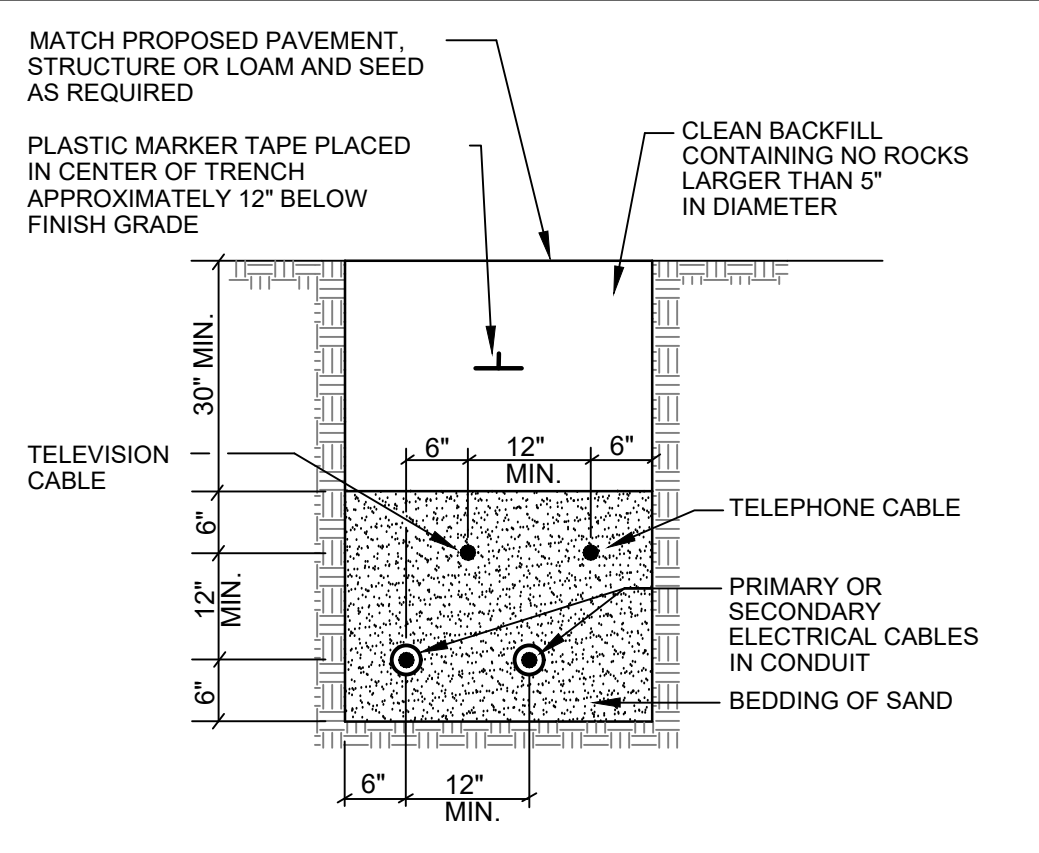
**B. A LOG (REPORT) MUST BE KEPT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES. MAJOR OBSERVATIONS MUST INCLUDE: BMPs THAT NEED TO BE MAINTAINED; LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION; AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION. FOLLOW-UP TO CORRECT DEFICIENCIES OR ENHANCE CONTROLS MUST ALSO BE INDICATED IN THE LOG AND DATED, INCLUDING WHAT ACTION WAS TAKEN AND WHEN.**

**DEWATERING**  
 A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL EVENTS OR WHERE THE EXCAVATION MAY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. THE COLLECTED WATER NEEDS TREATMENT AND A DISCHARGE POINT THAT WILL NOT CAUSE DOWNGRADIENT EROSION AND OFFSITE SEDIMENTATION OR WITHIN A RESOURCE.

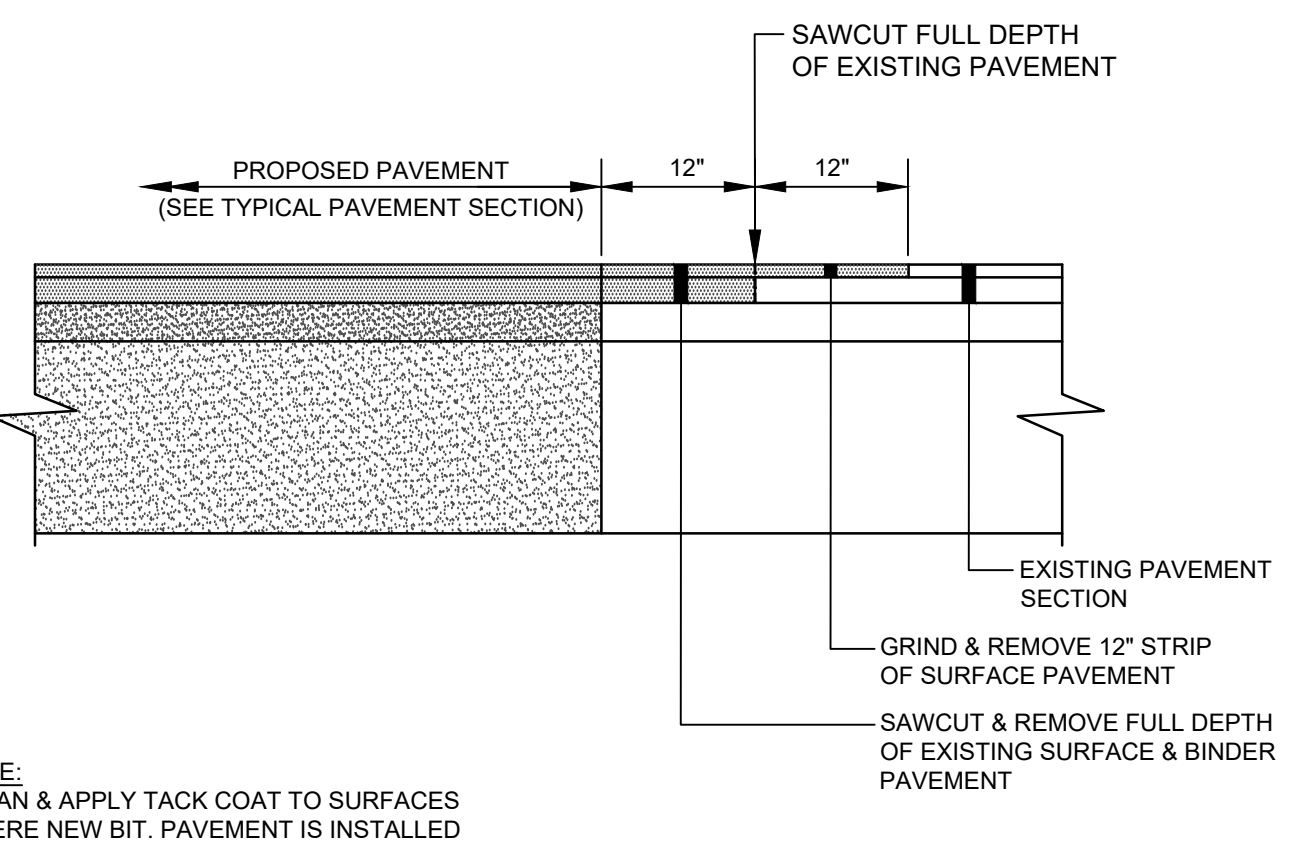


- NOTES:**
1. COMPACT GRAVEL SUBBASE COURSE TO 92% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
  2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

**TYPICAL PAVEMENT SECTION**  
 NOT TO SCALE

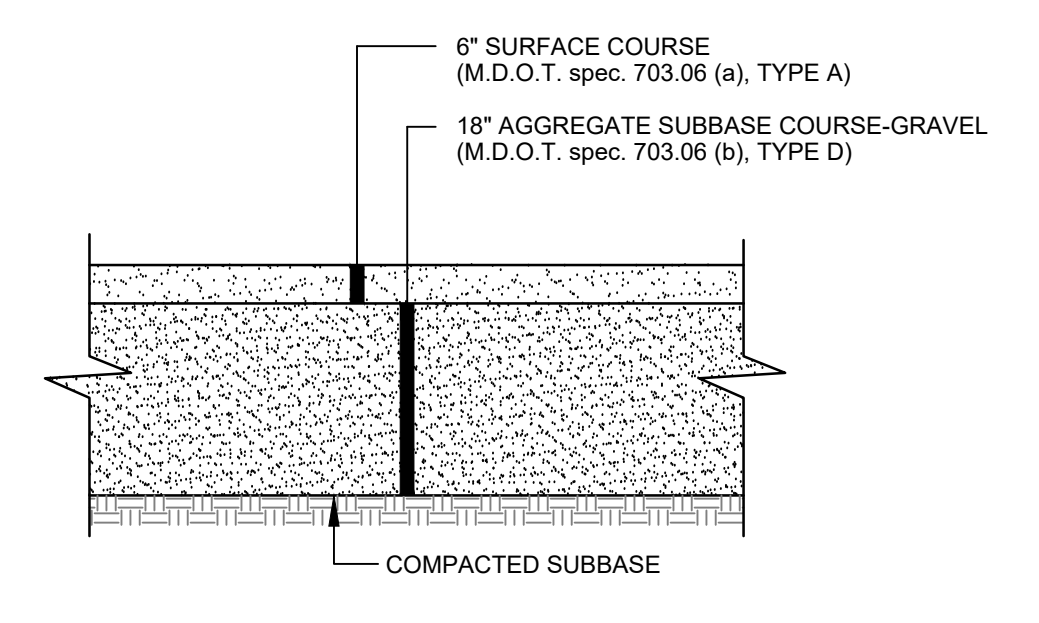


**TYPICAL UNDERGROUND CABLE INSTALLATION**  
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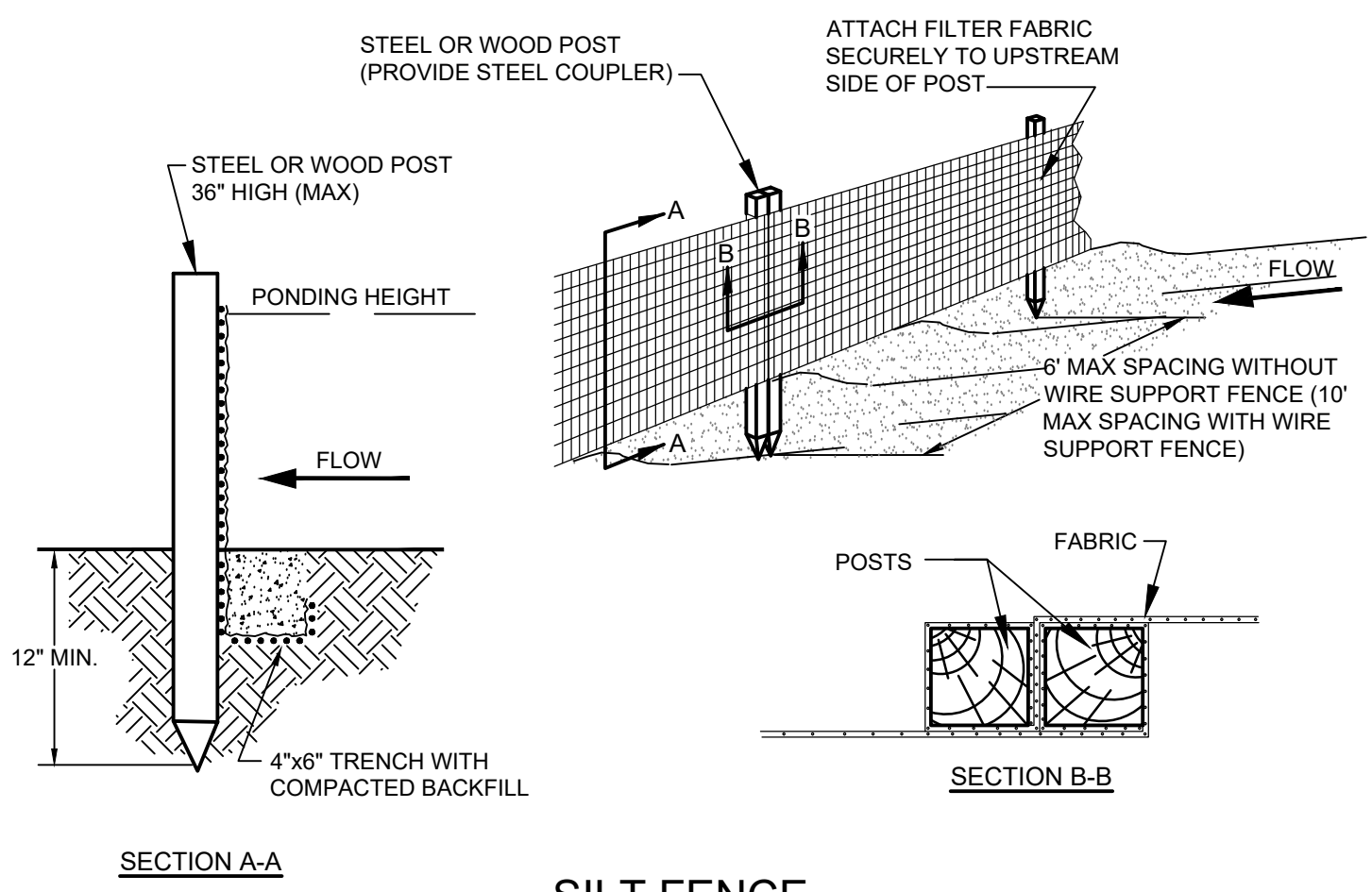


**NOTE:**  
 CLEAN & APPLY TACK COAT TO SURFACES WHERE NEW BIT. PAVEMENT IS INSTALLED

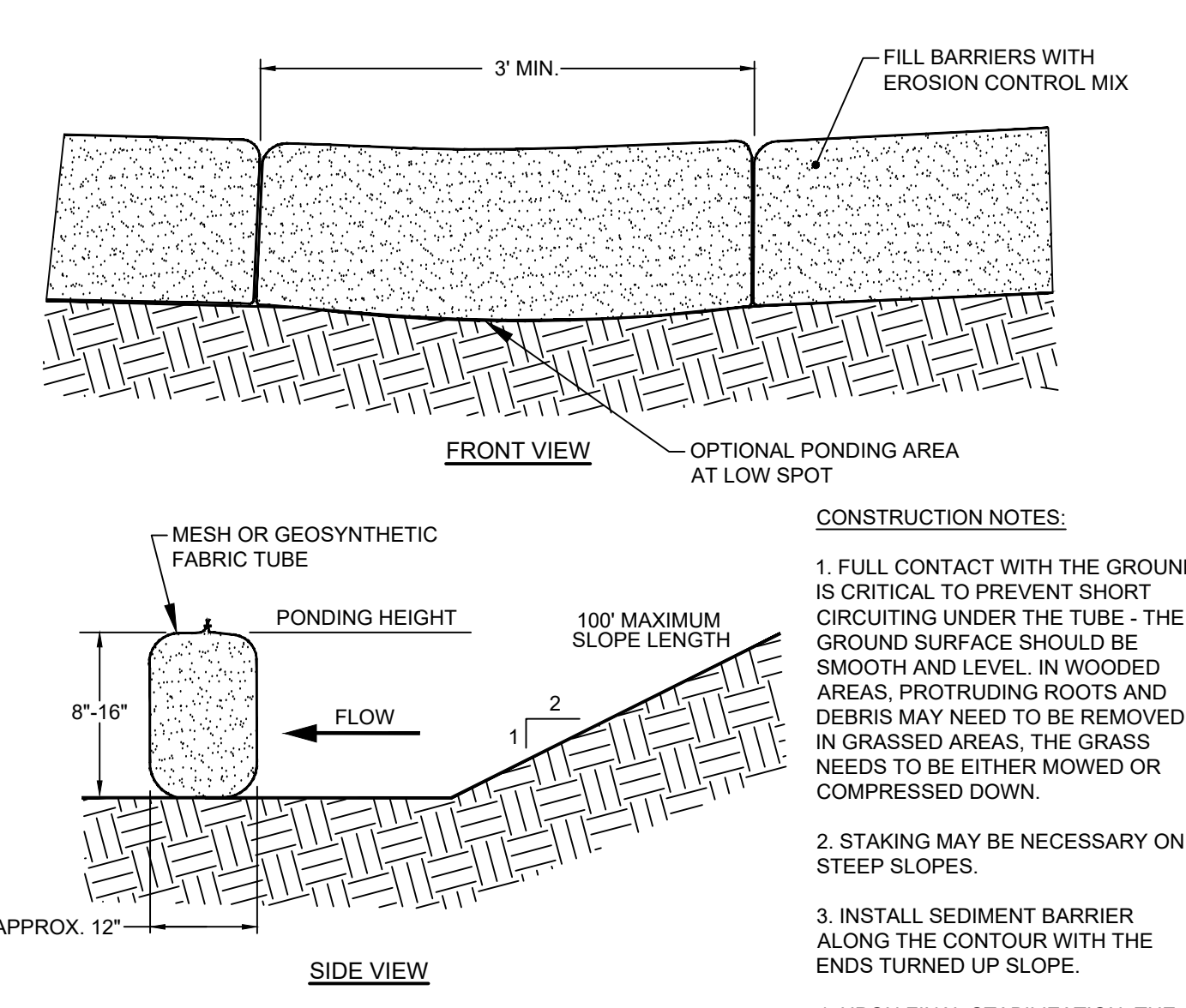
**TYPICAL PAVEMENT JOINT**  
 NOT TO SCALE



**TYPICAL GRAVEL SECTION**  
 NOT TO SCALE

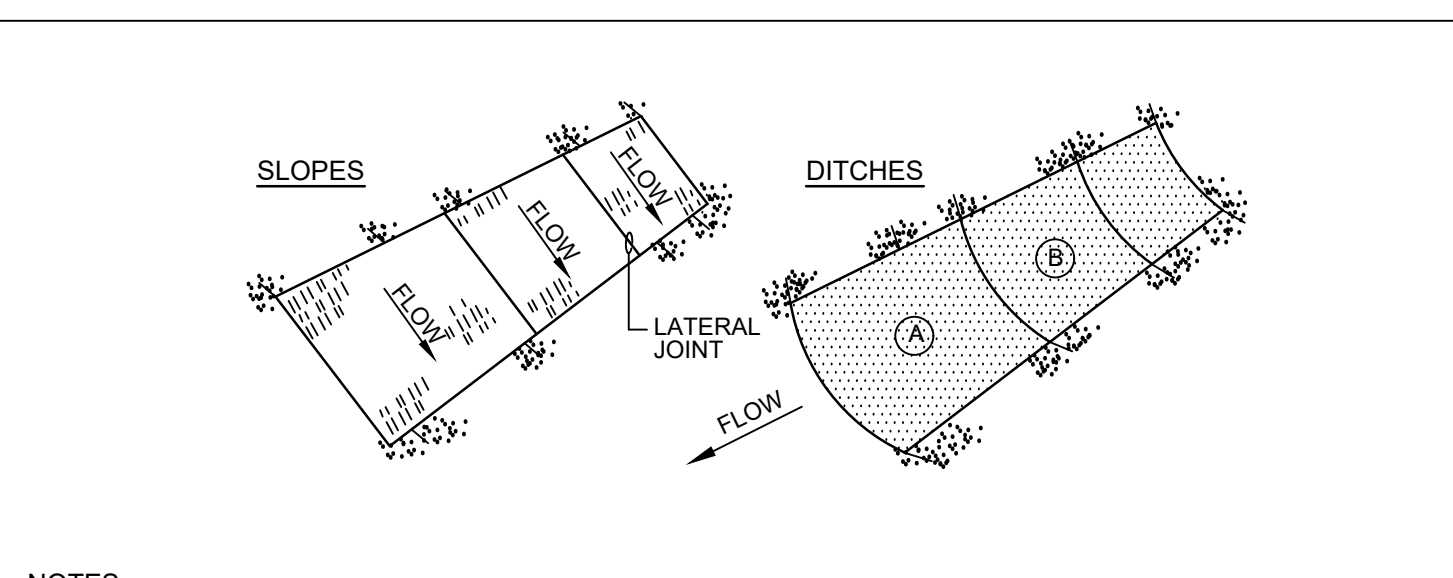


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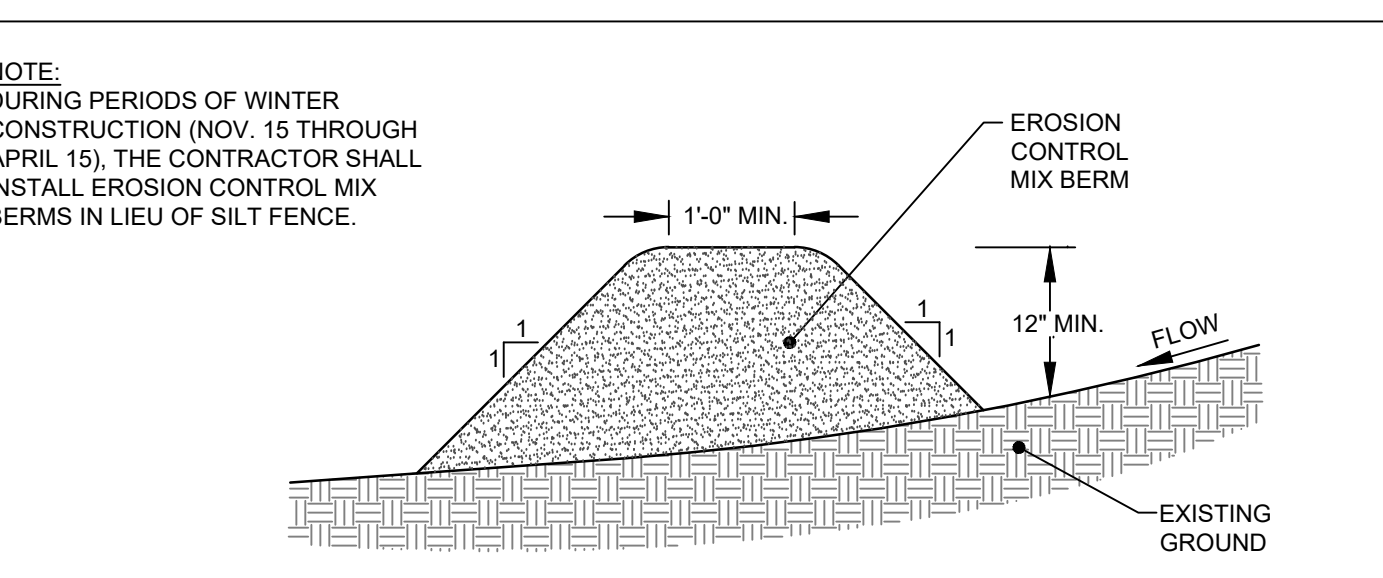


**FILTER SOCK**  
 NOT TO SCALE

- CONSTRUCTION NOTES:**
1. FULL CONTACT WITH THE GROUND IS CRITICAL TO PREVENT SHORT CIRCUITING UNDER THE TUBE - THE GROUND SURFACE SHOULD BE SMOOTH AND LEVEL. IN WOODED AREAS, PROTRUDING ROOTS AND DEBRIS MAY NEED TO BE REMOVED. IN GRASSED AREAS, THE GRASS NEEDS TO BE EITHER MOWED OR COMPRESSED DOWN.
  2. STAKING MAY BE NECESSARY ON STEEP SLOPES.
  3. INSTALL SEDIMENT BARRIER ALONG THE CONTOUR WITH THE ENDS TURNED UP SLOPE.
  4. UPON FINAL STABILIZATION, THE TUBE CAN BE CUT OPEN AND THE MATERIAL SPREAD OUT ONTO THE GROUND. THE MESH MATERIAL SHOULD BE REMOVED.

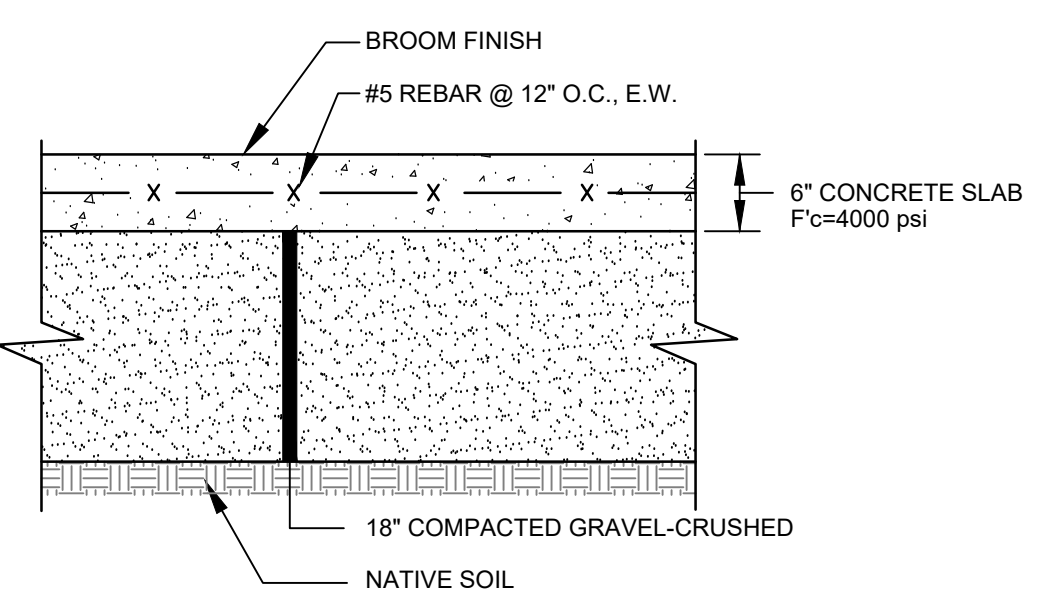


**EROSION CONTROL BLANKET**  
 NOT TO SCALE



**EROSION CONTROL MIX BERM**  
 NOT TO SCALE

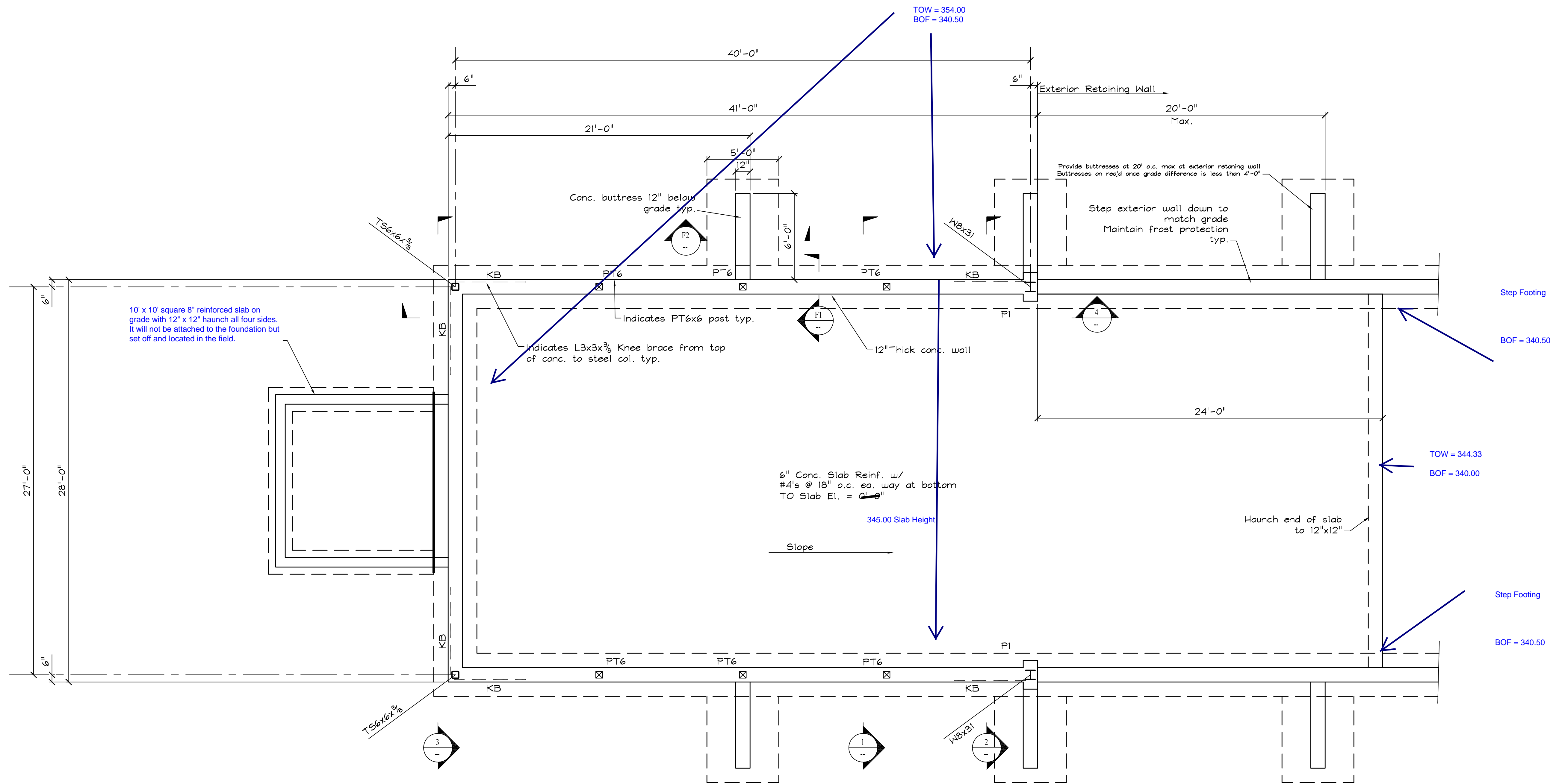
- NOTE:**  
 DURING PERIODS OF WINTER CONSTRUCTION (NOV. 15 THROUGH APRIL 15), THE CONTRACTOR SHALL INSTALL EROSION CONTROL MIX BERMS IN LIEU OF SILT FENCE.
- EROSION CONTROL MIX:**  
 EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES & MAY CONTAIN ROCKS LESS THAN 4\"/>



**TYPICAL CONCRETE SLAB**  
 NOT TO SCALE

- NOTE:**
1. PROVIDE CONTRACTION CONTROL JOINTS EVERY 6\"/>

DATE:		P.E.:		APP'D BY:	
5/11/2021		NO		REVISIONS	
1		NO		REVISED PER TOWN REVIEW	
5/11/2021		NO		DATE	
565 CONGRESS STREET		SUITE 201		PORTLAND, ME 04102	
41 CAMPUS DRIVE		SUITE 101		NEW GLOUCESTER, ME 04260	
OFFICE: (207) 926-5111		FAX: (207) 221-1317		www.terradynconsultants.com	
PERMIT DRAWING		NOT FOR CONSTRUCTION		TERRADYN CONSULTANTS, LLC	
PROJECT: PHASE 2: TRI-TOWN TRANSFER STATION		SOUTH HIRAM ROAD		SHEET TITLE: EROSION CONTROL NOTES & DETAILS	
CLIENT: TRI-TOWN TRANSFER STATION		25 ALLARD CIRCLE		HIRAM, ME 04047	
DATE: 3/30/2021		SCALE: AS NOTED		DESIGNED: 2127	
JOB NO: 2127		FILE: 2127-D		SHEET	
C-4.0					



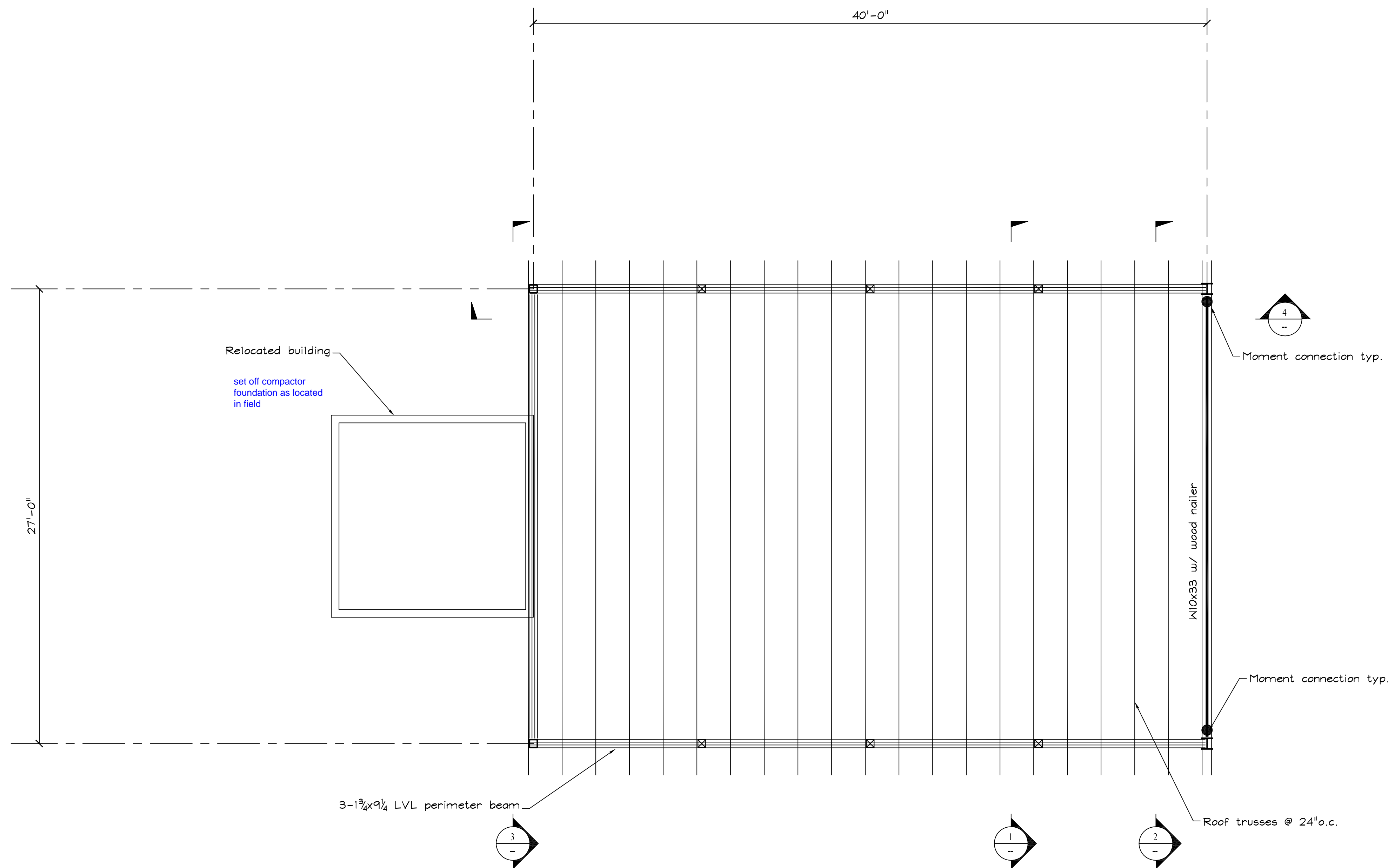
FOUNDATION PLAN  
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#	DATE	REVISION / ISSUE DESCRIPTION
1	11/09/2019	For Review

DRAWN BY: PDJ	CHECKED BY: PDJ
DATE: AUGUST 21, 2019	SCALE: AS NOTED
JOB NO.: 2019-000	

SOUTH HIRAM MAINE  
**TRI-TOWN TRANSFER STATION  
 NEW TRASH COMPACTOR  
 ENCLOSURE**

—SEI— SHELLEY ENGINEERING, INC.  
 STRUCTURAL CONSULTANTS  
 P.O. Box 1030  
 Gray, Maine 04039  
 Phone: (207) 529-4504  
 www.SHELLEYENGINEERING.COM



**ROOF FRAMING PLAN**

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

#	DATE	REVISION / ISSUE DESCRIPTION
1	11/09/2019	For Review

DRAWN BY:	PDJ
CHECKED BY:	PDJ
DATE:	AUGUST 21, 2019
SCALE:	As Noted
JOB NO.:	2019-000

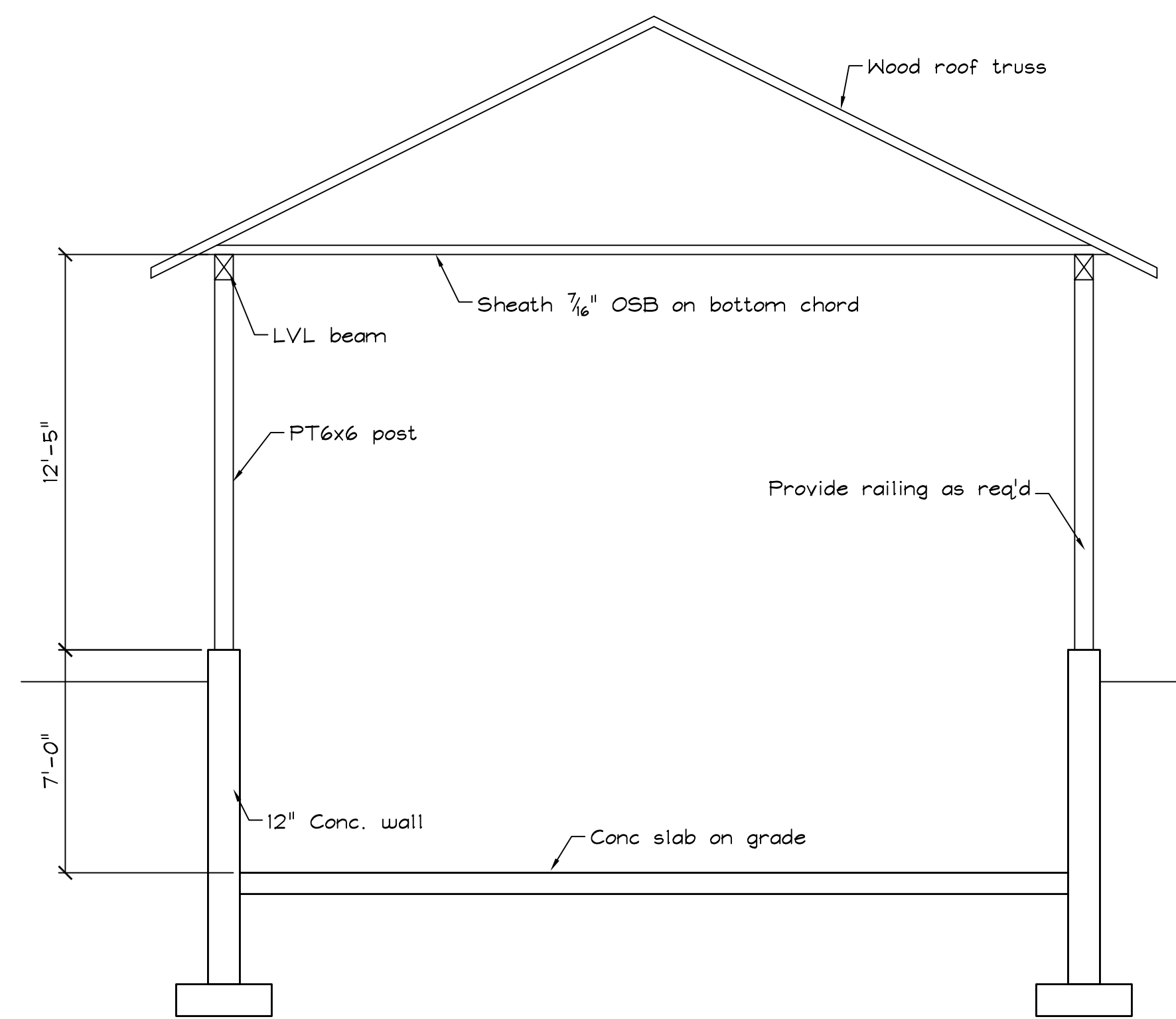
**TRI-TOWN TRANSFER STATION**  
**NEW TRASH COMPACTOR**  
**ENCLOSURE**

SOUTH HIRAM      MAINE

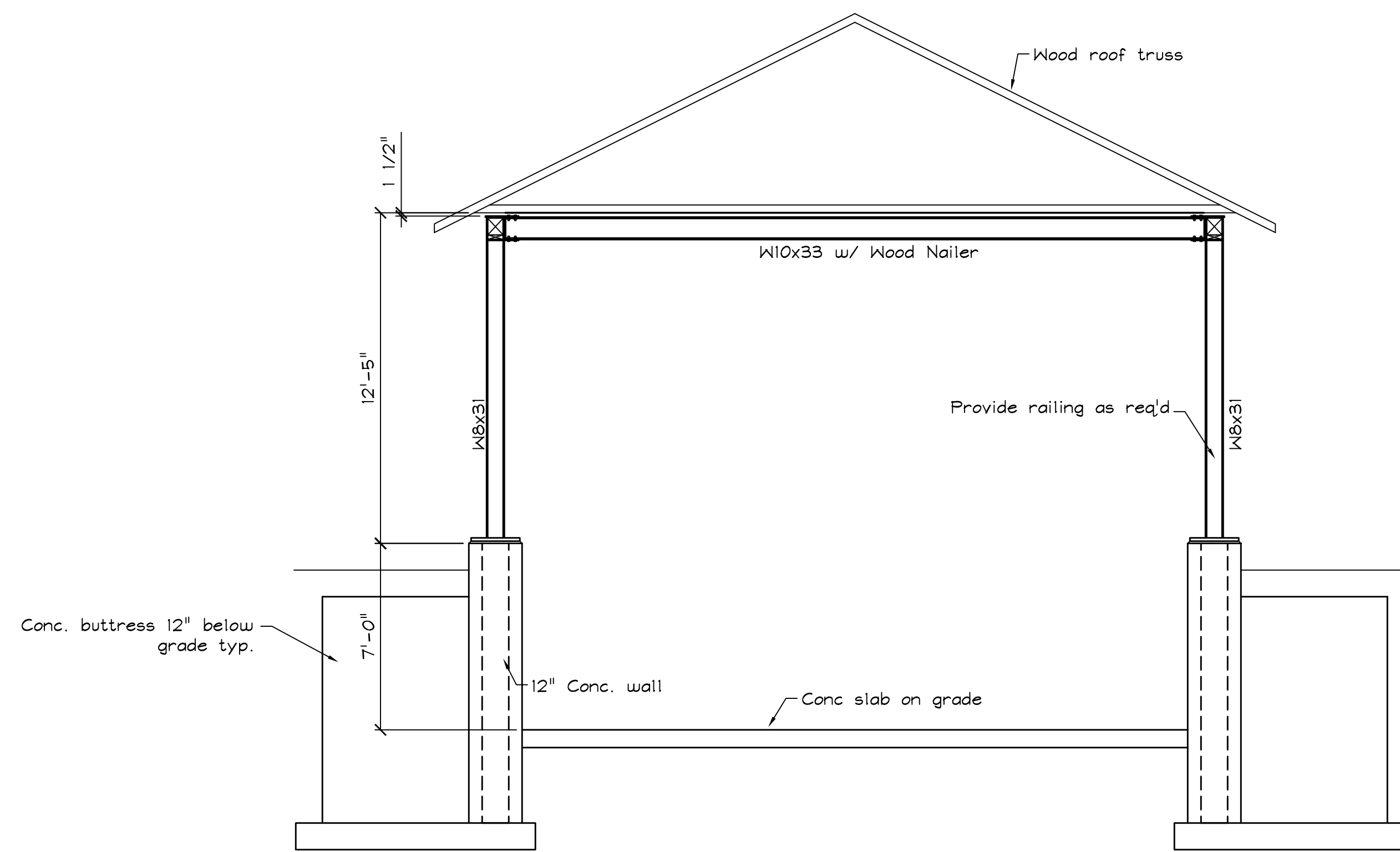
—SEI—  
 SHELLEY ENGINEERING, INC.  
 STRUCTURAL CONSULTANTS  
 P.O. Box 1090  
 Gray, Maine 04089  
 Phone: (207) 829-4604  
 www.SHELLEYENGINEERING.COM

SHEET TITLE:  
 ROOF FRAMING  
 PLAN

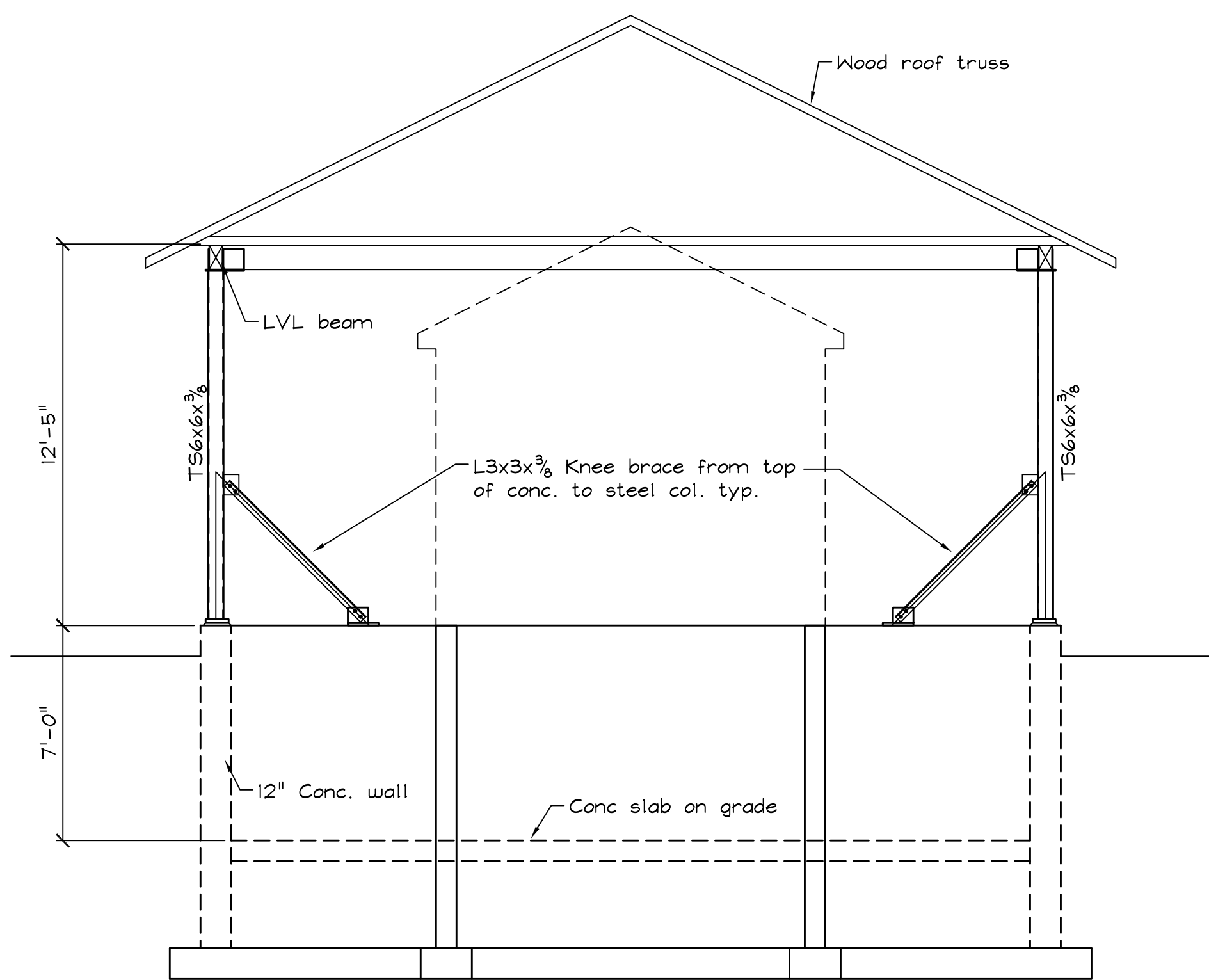
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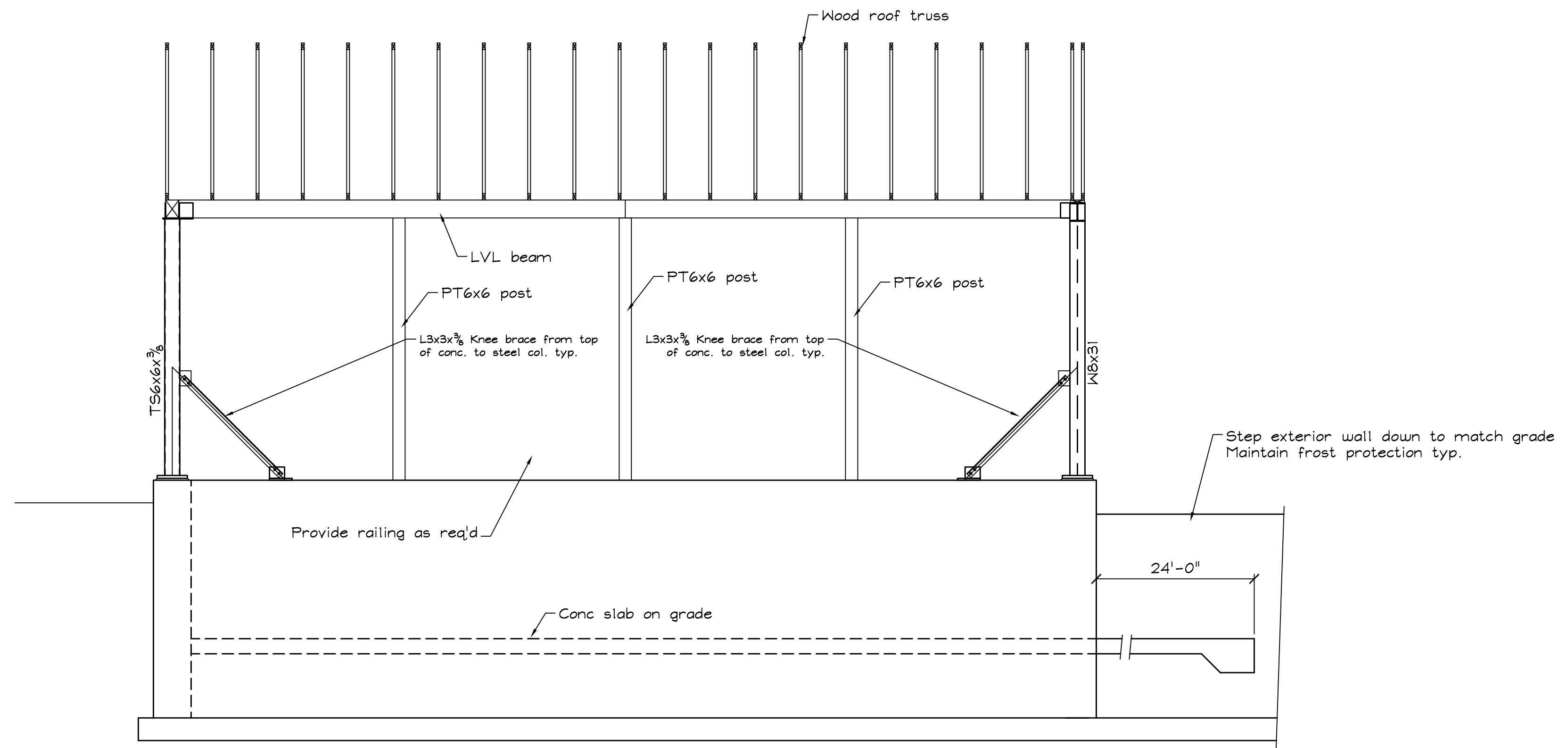
SECTION 1  
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SECTION 2  
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SECTION 3  
SCALE: 1/4" = 1'-0"



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

#	DATE	REVISION / ISSUE DESCRIPTION
1	11/9/2019	For Review

DRAWN BY:	PDJ
CHECKED BY:	PDJ
DATE:	August 21, 2019
SCALE:	As Noted
JOB NO.:	2019-000

**TRI-TOWN TRANSFER STATION**  
**NEW TRASH COMPACTOR**  
**ENCLOSURE**

SOUTH HIRAM  
 MAINE

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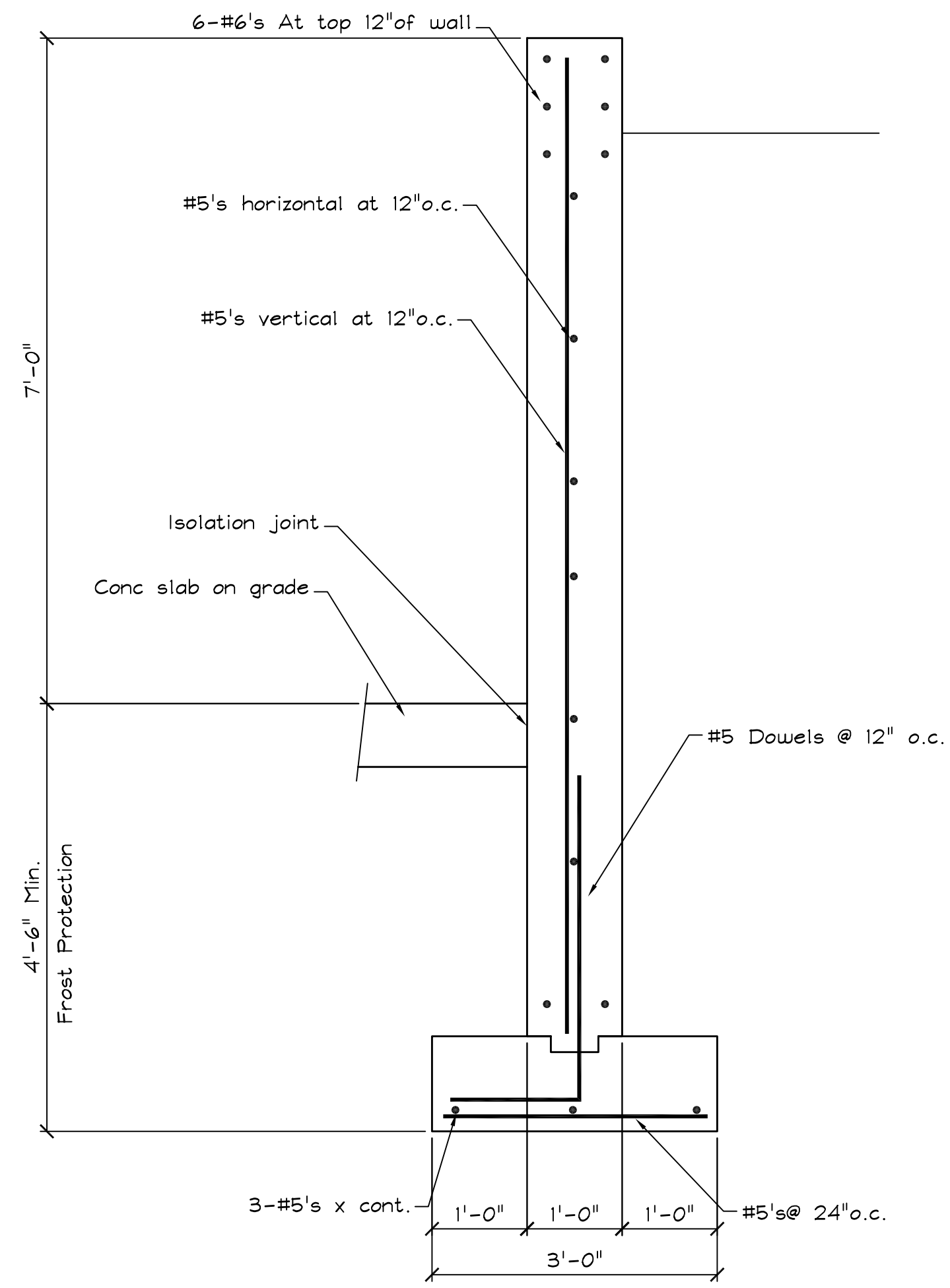
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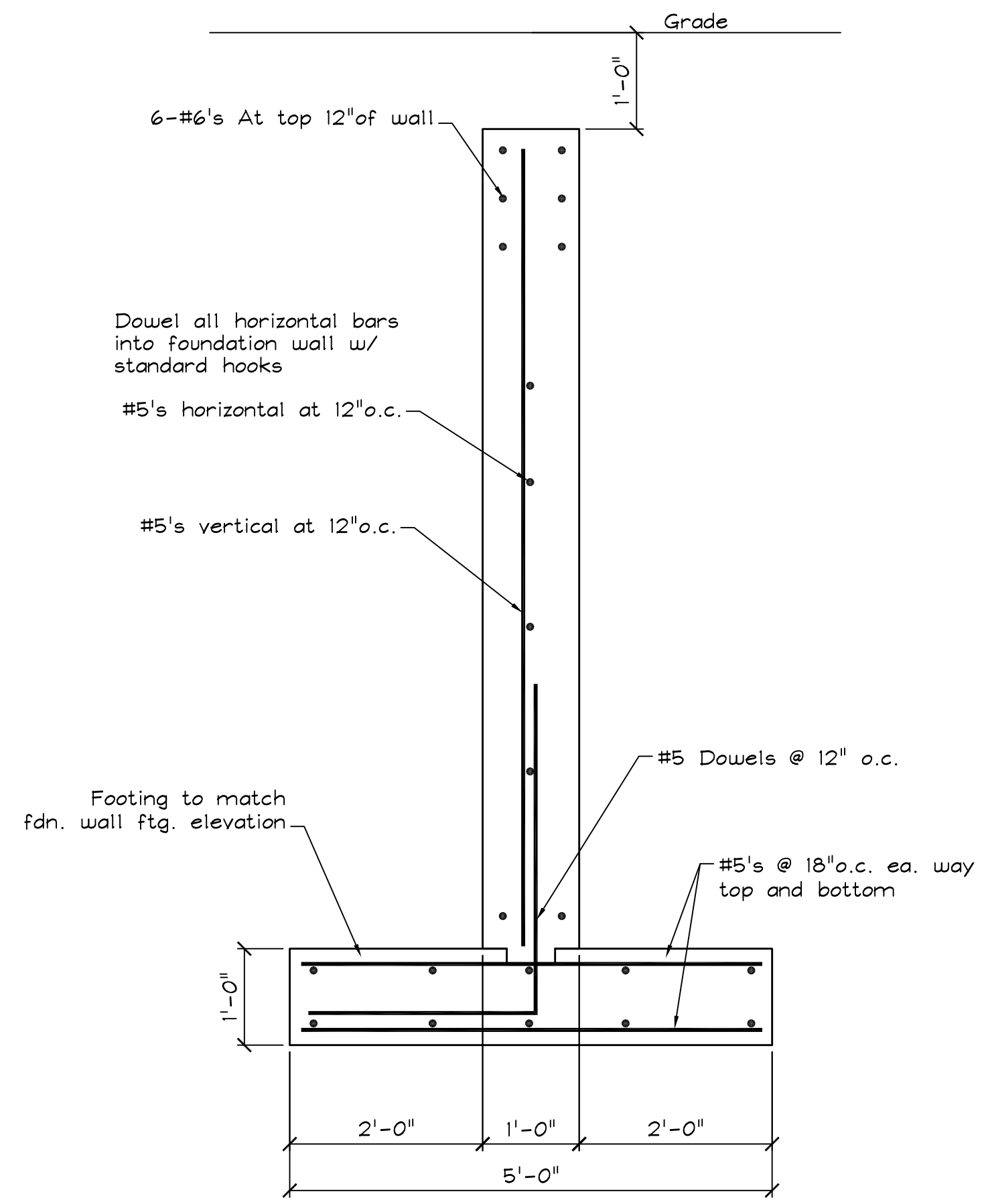
S3 OF 4

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SECTION F1 TYP. FDN. WALL  
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SECTION F2 TYP. BUTTRESS WALL  
SCALE: 3/4" = 1'-0"

#	DATE	DESCRIPTION
	11/09/2019	For Review

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CHECKED BY:	PDJ
DATE:	AUGUST 21, 2019
SCALE:	As NOTED
JOB NO.:	2019-000

**TRI-TOWN TRANSFER STATION**  
**NEW TRASH COMPACTOR**  
**ENCLOSURE**

SOUTH HIRSAM      MAINE

—SEI—  
 SHELLEY ENGINEERING, INC.  
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 P.O. Box 1030  
 Gray, Maine 04039  
 Phone: (207) 329-4504  
 www.SHELLEYENGINEERING.COM

SHEET TITLE:  
 FOUNDATION SECTIONS

S4 OF 4  
 CADD Cadd File

REVISIONS			
REV	REFERENCE	INIT	DATE
A	ADDED CONCRETE PROFILE DETAIL	BJS	6/26/06

REBAR SCHEDULE: 2' PIER DEPTH				
BL. NO.	QUANTITY	BAR SIZE	LENGTH & DESCRIPTION	WEIGHT
A	36	#5	2'-0" @ 8" O.C.	75
B	72	#3	4'-0" @ 8" O.C.	108
C	36	#3	2'-6" @ 8" O.C.	34
D	52	#5	9'-6" @ 12" O.C.	515
E	44	#3	11'-6" @ 12" O.C.	190
F	28	#5	11'-6" @ 12" O.C.	336
TOTAL WEIGHT OF REBAR				1258

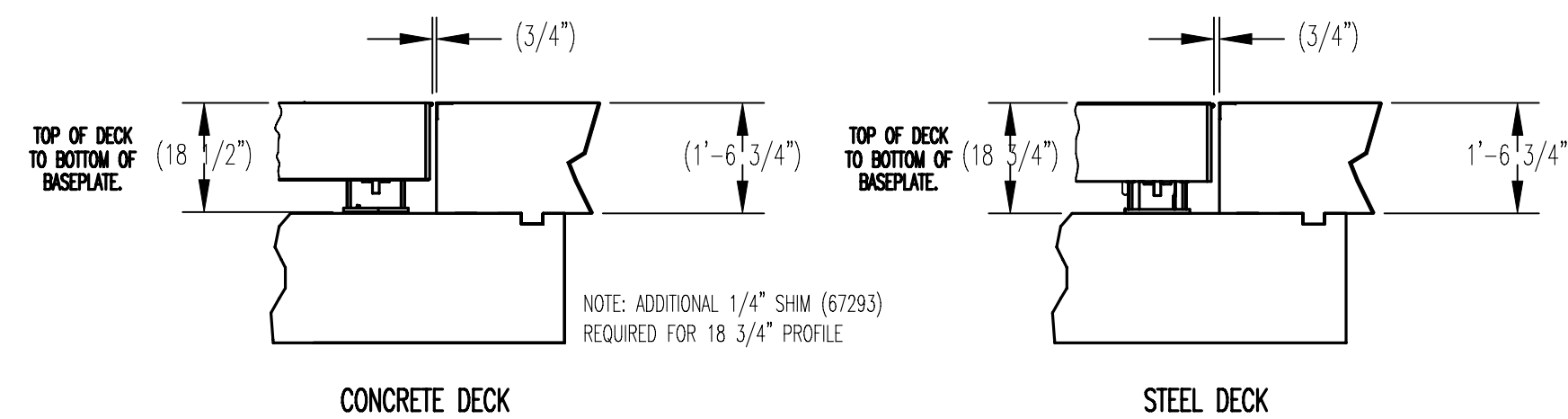
REBAR SCHEDULE: 3' PIER DEPTH				
BL. NO.	QUANTITY	BAR SIZE	LENGTH & DESCRIPTION	WEIGHT
A	36	#5	2'-0" @ 8" O.C.	75
B	72	#3	4'-0" @ 8" O.C.	108
C	36	#3	2'-6" @ 8" O.C.	34
D	52	#5	9'-6" @ 12" O.C.	515
E	44	#3	11'-6" @ 12" O.C.	190
F	28	#5	11'-6" @ 12" O.C.	336
TOTAL WEIGHT OF REBAR				1258

REBAR SCHEDULE: 4' PIER DEPTH				
BL. NO.	QUANTITY	BAR SIZE	LENGTH & DESCRIPTION	WEIGHT
A	36	#5	2'-0" @ 8" O.C.	75
B	72	#3	4'-0" @ 8" O.C.	108
C	36	#3	2'-6" @ 8" O.C.	34
D	52	#5	9'-6" @ 12" O.C.	515
E	44	#3	11'-6" @ 12" O.C.	190
F	28	#5	11'-6" @ 12" O.C.	336
TOTAL WEIGHT OF REBAR				1258

MATERIAL REQUIREMENTS: 2' PIER DEPTH  
 CONCRETE: APPROACHES..... 14 YDS. PIERS..... 11 YDS. CLEANOUT..... 5 YDS.  
 REINFORCING: REBAR..... 1258 LBS. W.W.F. CLEANOUT..... 384 SQ. FT.

MATERIAL REQUIREMENTS: 3' PIER DEPTH  
 CONCRETE: APPROACHES..... 14 YDS. PIERS..... 16 YDS. CLEANOUT..... 5 YDS.  
 REINFORCING: REBAR..... 1258 LBS. W.W.F. CLEANOUT..... 384 SQ. FT.

MATERIAL REQUIREMENTS: 4' PIER DEPTH  
 CONCRETE: APPROACHES..... 14 YDS. PIERS..... 21.5 YDS. CLEANOUT..... 5 YDS.  
 REINFORCING: REBAR..... 1258 LBS. W.W.F. CLEANOUT..... 384 SQ. FT.



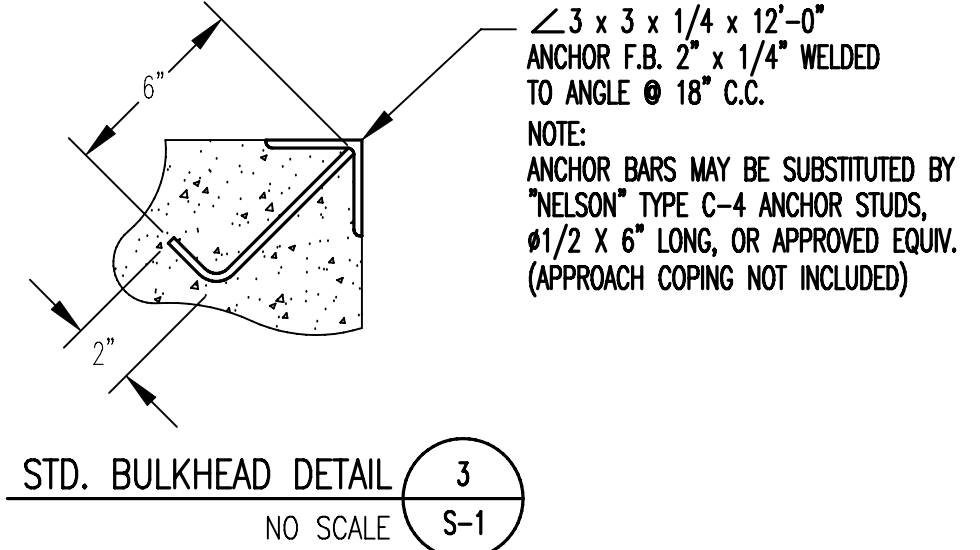
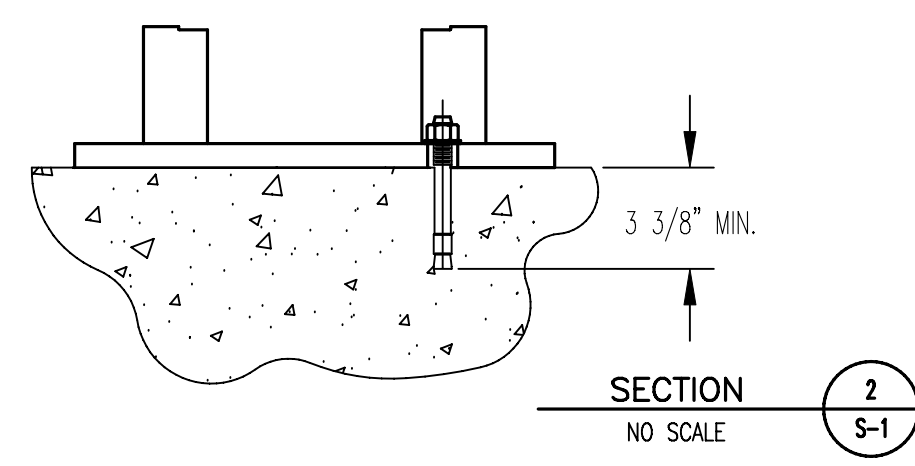
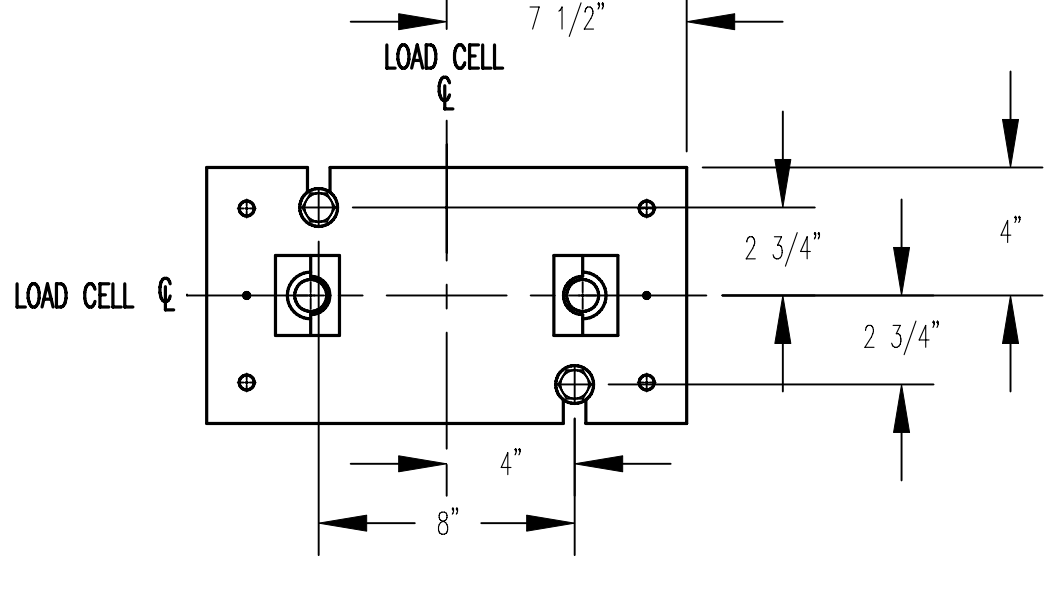
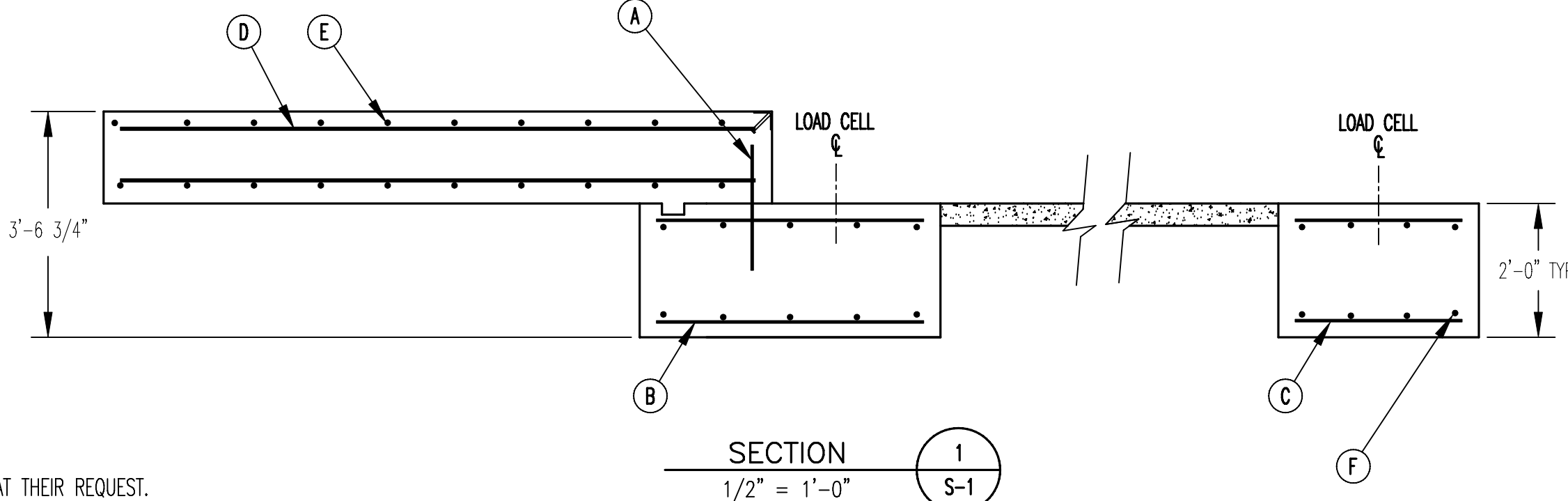
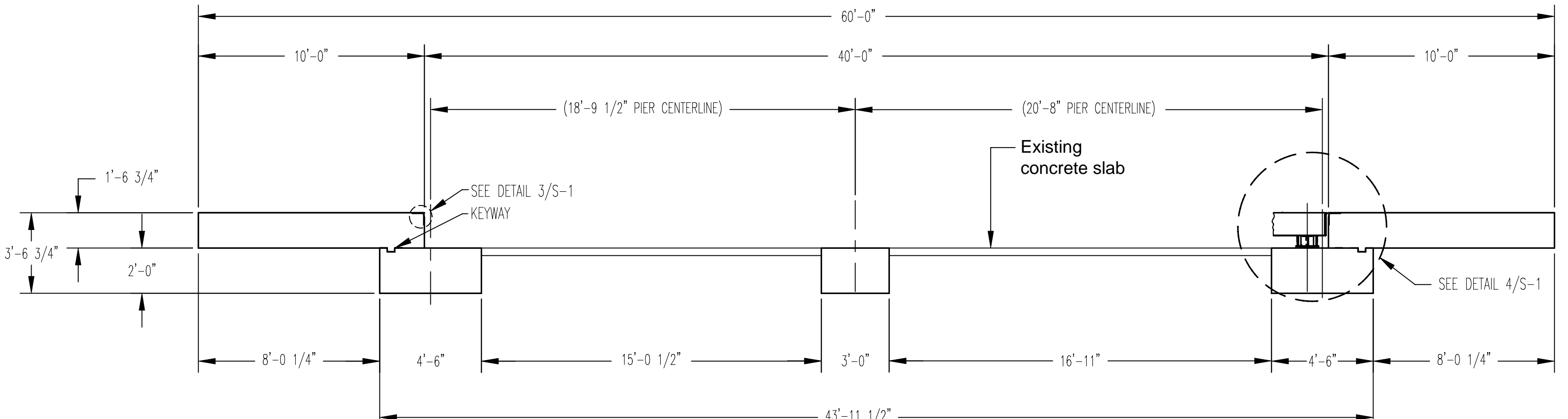
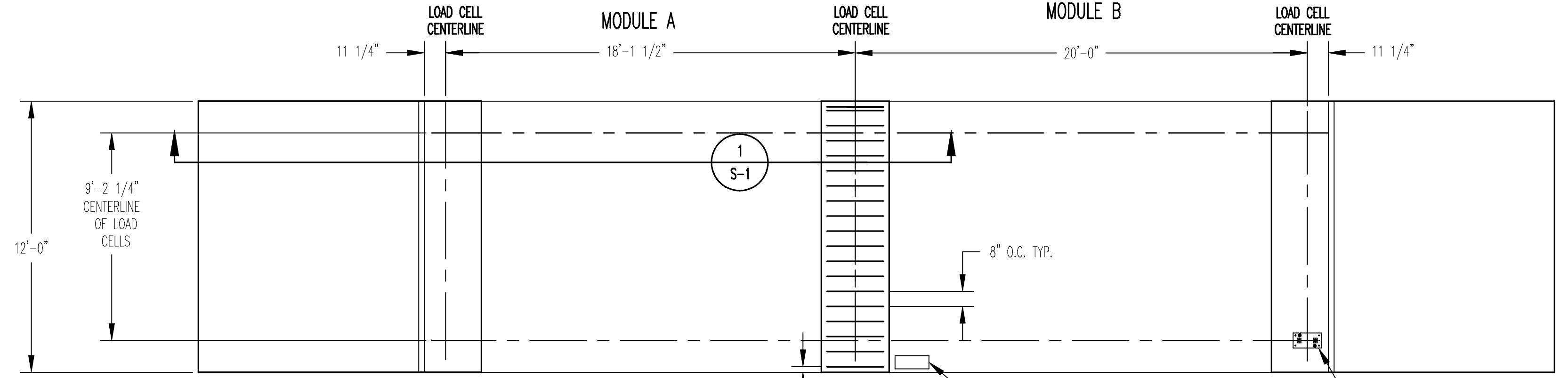
SCALE PROFILE DETAIL 4  
NO SCALE S-1

- NOTE:  
 1. DESIGN STRESSES:  
 1.1) CONCRETE:  $f'_c = 3000$  PSI @ 28 DAYS, MAXIMUM SLUMP 4.  
 1.2) REINFORCING STEEL: DEFORMED BARS ASTM A615 GRADE 60, UNLESS OTHERWISE NOTED.  
 1.3) STEEL: STRUCTURAL ASTM A36

2. CONTRACTOR NOTE:  
 2.1) STRUCTURAL CONCRETE MEMBERS ARE DESIGNED FOR "IN PLACE" LOADS. CONTRACTOR IS RESPONSIBLE FOR BRACING ALL STRUCTURAL ELEMENTS (AS REQUIRED AT ANY STAGE OF CONSTRUCTION) UNTIL COMPLETION OF THIS PROJECT. SHOP DRAWINGS ARE SUBMITTED TO ARCHITECT/ENGINEER FOR APPROVAL (3 SETS REQUIRED).  
 2.2) SOME STATES REQUIRE CONCRETE CLEANOUTS. CHECK WITH STATE AND LOCAL CODES BEFORE PROCEEDING WITH CONSTRUCTION.  
 2.3) MONOLITHIC POUR OF SLAB AND PIERS IS ALLOWED, AT CONTRACTOR'S DISCRETION.  
 2.4) STATE AND LOCAL AGENCIES MAY HAVE VARIOUS REQUIREMENTS FOR APPROACH RAMP LENGTH, PITCH, AND FOR CLEAN OUT HEIGHT. PLEASE CHECK WITH ALL AGENCIES PRIOR TO CONSTRUCTION.

- DIVISION 2  
 3. SITE PREPARATION:  
 3.1) FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ENGINEERED FILL.  
 3.2) DEVELOP AND MAINTAIN SITE GRADES WHICH WILL RAPIDLY DRAIN SURFACE AND ROOF RUN-OFF AWAY FROM FOUNDATION.  
 3.3) ALL FILL SHALL BE COMPACTED TO 95 - 98 PERCENT OF STANDARD PROCTOR DENSITY (ASTM 698).  
 3.4) FOOTINGS HAVE BEEN DESIGNED FOR A MINIMUM SOIL PRESSURE OF 3000 PSF IN LIEU OF SOIL BORINGS. IT WILL BE THE RESPONSIBILITY OF OTHERS TO VERIFY THIS VALUE.

- DIVISION 3  
 4. CONCRETE:  
 4.1) CODE FOR REINFORCED CONCRETE ACI 318 LATEST EDITION.  
 4.2) WHERE REINFORCING BARS ARE SHOWN CONTINUOUS, LAP SPLICE BARS 40 DIAMETERS.  
 4.3) UNLESS SHOWN OTHERWISE, PROVIDE 2" CONCRETE COVER ON ALL REINFORCING STEEL (3" AT FOOTING REINF.).  
 4.4) PROVIDE SUITABLE SUPPORT OF ALL REINFORCING TO PREVENT DISPLACEMENT DURING CONCRETING.  
 4.5) ALL EXPANSION BOLTS SHALL BE "KWIKBOLT", "WEJIT", OR EQUAL.  
 4.6) ALL CONCRETE TO HAVE 5-8% ENTRAINED AIR BY VOLUME.  
 4.7) CONCRETE SHOULD NOT CONTAIN FLY ASH.  
 4.8) PORTLAND CEMENT: ASTM C150, TYPE 1; AGGREGATE - 3/4".  
 4.9) WATER: CLEAN, POTABLE AND FREE OF DELETERIOUS AMOUNTS OF ACIDS, ALKALINES AND ORGANIC MATERIALS.  
 4.10) CONCRETE: SHALL BE MAINTAINED ABOVE 50° F. AND IN A MOIST CONDITION FOR AT LEAST 7 DAYS FOR NORMAL CONCRETE AND 3 DAYS FOR HIGH-EARLY STRENGTH CONCRETE. HOT AND COLD WEATHER PROTECTION ASTM C-94.  
 4.11) THE CONCRETE SUPPLIER OR HIS REPRESENTATIVE SHALL TAKE A SET OF 3 CYLINDERS FOR EVERY TRUCK LOAD OF CONCRETE POURED, OR A MINIMUM OF ONE SET PER ANY ONE POUR. THE CYLINDERS WILL BE MARKED WITH THE LOCATION OF WHERE THEY WERE TAKEN, THE NUMBER OF THE TRUCK THAT HAULED THE CONCRETE AND THE DATE AND TIME THE CYLINDERS WERE TAKEN. THE CYLINDERS ARE TO BE TAKEN ACCORDING TO ACCEPTED PRACTICES BY ASTM C31, C39 AND C172 USING APPROVED CYLINDER FORMS.  
 4.12) THE OWNER SHALL BE RESPONSIBLE FOR STORING THE CYLINDERS AND MAINTAINING THEM IN GOOD CONDITION.  
 4.13) THE OWNER SHALL HAVE ONE CYLINDER FOR EACH SET BROKE AT 7 DAYS AND A SECOND CYLINDER OF EACH SET BROKE AT 28 DAYS BY AN APPROVED TESTING COMPANY. THE THIRD CYLINDER OF EACH SET SHALL BE RETAINED AT THE SITE.  
 4.14) THE OWNER OR OWNER'S REP SHALL RECEIVE WRITTEN COPIES OF THE TESTING COMPANY'S REPORT IN A TIMELY MANNER, AND PROVIDE THEM TO THE MANUFACTURER AT THEIR REQUEST.  
 4.15) CONTRACTOR MUST SUPPLY CONCRETE DESIGN MIX TO OWNER OR OWNER'S REP AND A/E PRIOR TO STARTING CONSTRUCTION.  
 5. SLAB TO BE LEVEL WITHIN 1/4".  
 6. APPROACHES TO BE A COMMON PLANE WITHIN 1/4".  
 7. TOP OF REBAR MUST BE PLACED TO CLEAR THE ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED AFTER FOUNDATION HAS CURED.



OWNER: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 SCALE DEALER: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_  
 REF#: \_\_\_\_\_ DATE: \_\_\_\_\_

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TITLE: FOUNDATION, CONCRETE PIER  
 40' X 11' OTR SERIES TRUCK SCALE

DR. BY: BDL CAD  
 DATE: 4/3/06 APPD  
 RICE LAKE WEIGHING SYSTEMS  
 RICE LAKE WISCONSIN  
 THIRD ANGLE PROJECTION  
 SCALE: 1/4"=1'-0" SHEET 1 OF 1 REVISION A DWG NO 94664