

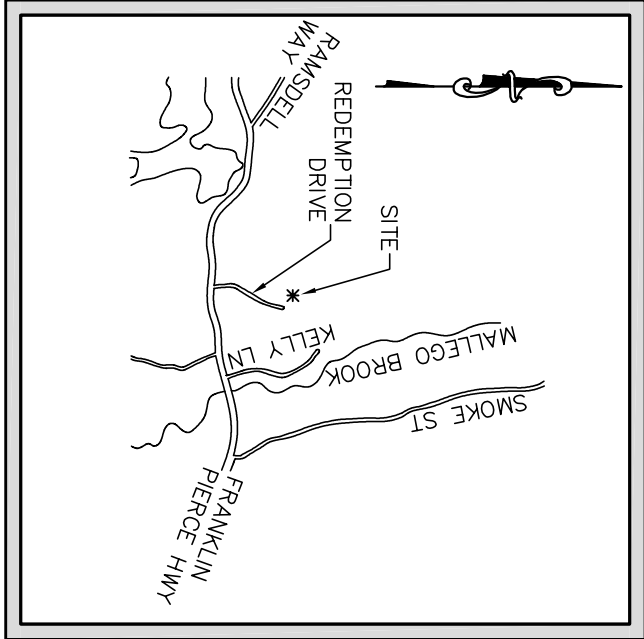
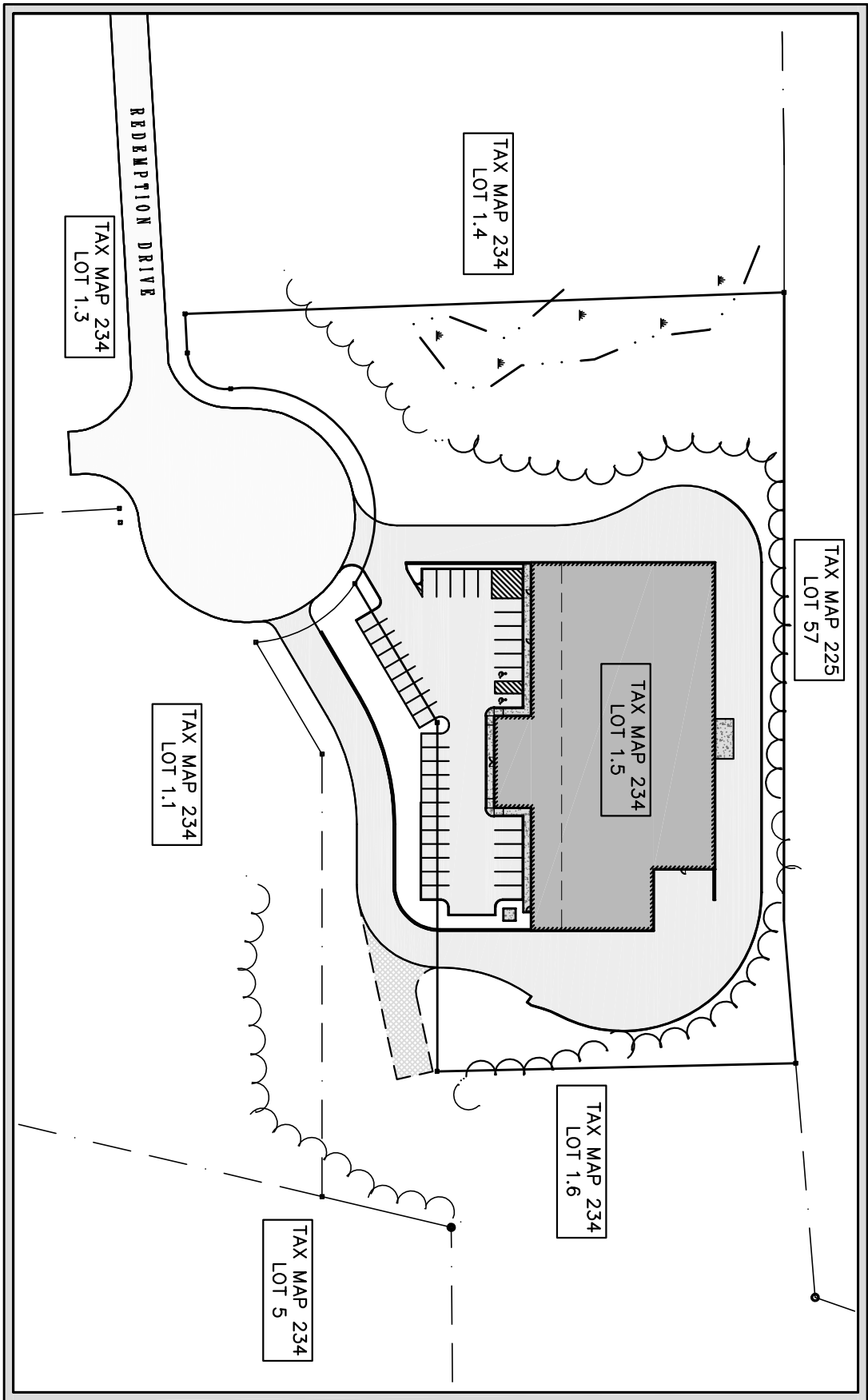
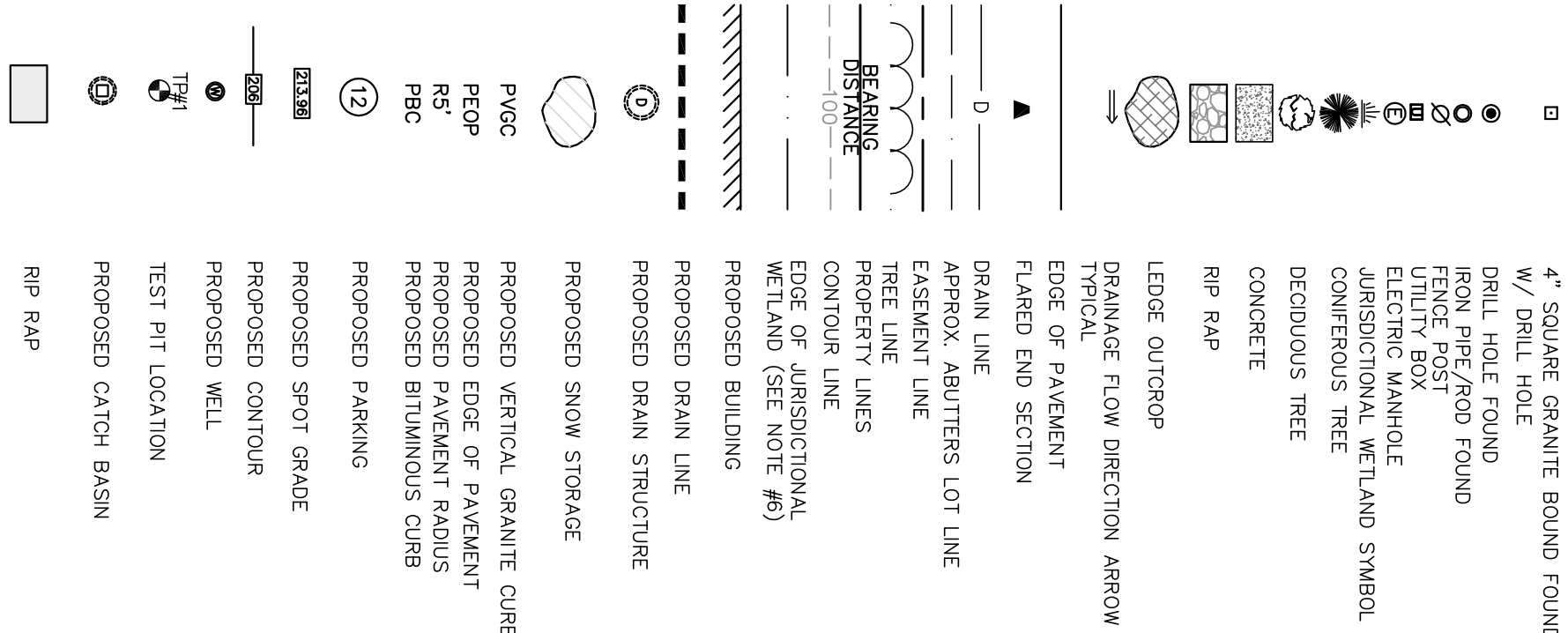
PROPOSED SITE PLAN

FOR

TURBOCAM
MAP 234, LOT 1.5
ROUTE 9

BARRINGTON, NH 03825

SEPTEMBER 17, 2014

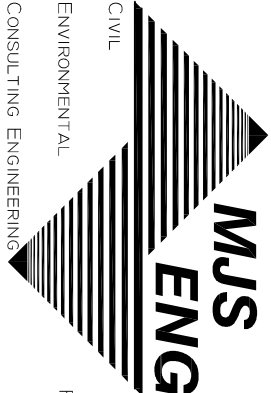


LOCATION MAP
SCALE: 1" = 2,500'

TABLE OF CONTENTS

TITLE	SHEET
EXISTING CONDITIONS PLAN	.... EC
SITE PLAN	..... C1
GRADING, DRAINAGE, UTILITIES, & EROSION CONTROL PLAN	.... C2
LIGHTING PLAN	..... C3
DRIVEWAY PROFILE	..... C4
RETAINING WALL DETAILS	..... C5
CONSTRUCTION DETAILS	..... C6-10
STORMTRAP PRELIMINARY DETAILS	..... C-11
LANDSCAPE PLAN	..... L-1
CONCEPTUAL BUILDING RENDERINGS	..... A1

ENGINEER

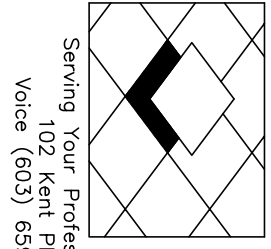


MJS
ENGINEERING, PC

CIVIL
ENVIRONMENTAL
CONSULTING ENGINEERING

5 BARNARD ST., P.O. BOX 359
BARRINGTON, NH 03825
Phone: (603) 659-4673
E-MAIL: MJS@MJS-ENGINEERING.COM


SURVEYOR



DOUCET
SURVEYORS

Serving Your Professional Surveying & Mapping Needs
102 Kent Place, Newmarket, NH 03857
Voice (603) 659-6560, Data (603) 659-4118

LANDSCAPE ARCHITECT



WOODBURN
& COMPANY

103 Kent Place
Newmarket, NH 03857
Tel: 603.659.5949
Fax: 603.659.5939

Landscape Architecture, LLC

OWNER SIGNATURE BLOCK

PLANNING BOARD APPROVAL BLOCK

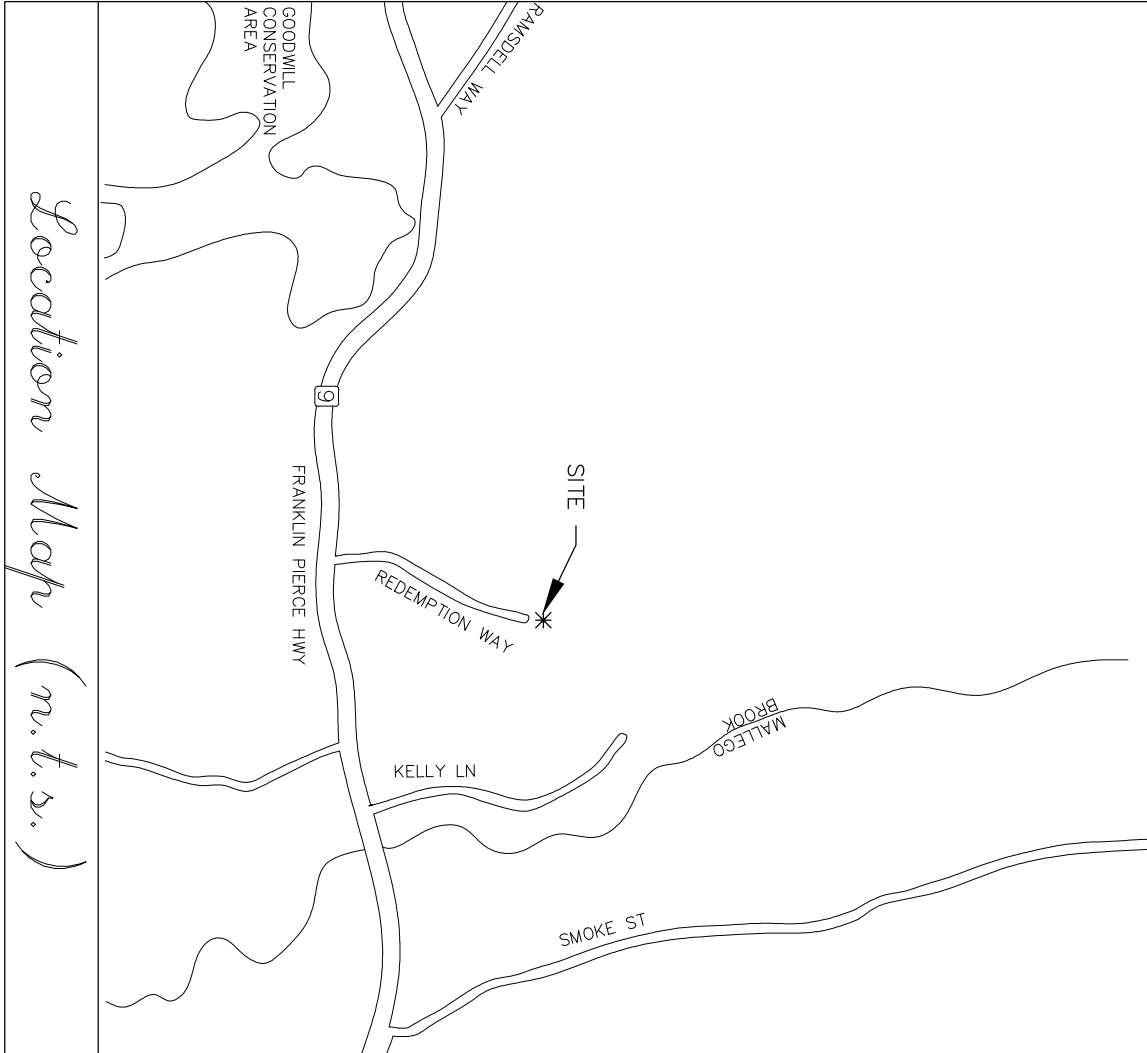
0.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	9/17/14	RO
	REVISIONS		
NO.		DATE	INT.

TAX MAP 225 LOT 57
KELIHER CHRISTOPHER & SUZANNE
66 CHRISSY CIR 03825
S.C.R.D. BOOK 1824, PAGE 363

I certify that this survey and is not a subdivision pursuant to this title (NHRSA Title LXIV) and that the lines of streets and ways shown are those of public or private streets or ways already established and that no new ways are shown. I certify that this survey and plan were prepared by me or by those under my direct supervision, and falls under the Administrative Rules of the Board of License for Land Surveyors. I certify that this survey was made on the ground and is correct to the best of my knowledge and belief, random traverse survey by total station, with a precision greater than 1:15,000.

LL.S. #924
DATE

The certifications shown herein are intended to meet registry of deed requirements and are not a certification to title or ownership of property shown. Owners of adjoining properties are according to current town assessors records.



TAX MAP 234 LOT 1.6
BARRINGTON, TOWN OF
(CLARK/GOODMILL)
PO BOX 660
333 CALEF HWY
BARRINGTON, NH 03825
S.C.R.D. BOOK 2326, PAGE 756

NOTES:

- REFERENCE: TAX MAP 234, LOT 1.5
- TOTAL PARCEL AREA: 130,944 SQ. FT. OR 3.006AC.
- OWNER OF RECORD: BARRINGTON, TOWN OF
(CLARK/GOODMILL)
PO BOX 660
333 CALEF HWY
BARRINGTON, NH 03825
S.C.R.D. BOOK 2326, PAGE 756

4. ZONE: RC
DIMENSIONAL REQUIREMENTS:

MIN. LOT AREA 80,000 sq. ft. OR 1.83 AC.
MIN. FRONTAGE 200 ft.
MIN. FRONT SETBACK 40 ft.
MIN. FRONT YARD SETBACK 30 ft.
MAX. BUILDING HEIGHT 35 ft.
MAX. BUILDING COVERAGE 40%

WETLAND SETBACKS:
75 ft. (VERY POORLY DRAINED SOILS)
50 ft. (POORLY DRAINED SOILS)

ALL OTHER STRUCTURES (NO BUILDING ACTIVITY)
100 ft. (VERY POORLY DRAINED SOILS)
35 ft. (POORLY DRAINED SOILS)

- FIELD SURVEY PERFORMED BY E.J.S. & W.D.C. DURING 07/14 USING A TRIMBLE 56 TOTAL STATION WITH A TRIMBLE 1753 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL. TRANSVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- JURISDICTIONAL WETLANDS DELINEATED BY WEST ENVIRONMENTAL, INC. DURING JULY 2014 IN REPORT 1-67-11.
- HORIZONTAL DATUM BASED ON MAGNETIC NORTH PER REFERENCE PLAN.
- VERTICAL DATUM BASED ON MAGNETIC NORTH PER REFERENCE PLAN.
- STAMPED -027 0370.
- THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
- DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED INCOMPLETE, OBTAINED, OR LOST DOCUMENTS, THERE IS AN INHERENT A ROADWAY RIGHT OF WAY, THE EXTENT OF (THE ROAD(S)) AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT STRAFFORD COUNTY REGISTRY OF DEEDS.

- FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUCET SURVEY, INC. FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUCET SURVEY, INC.).

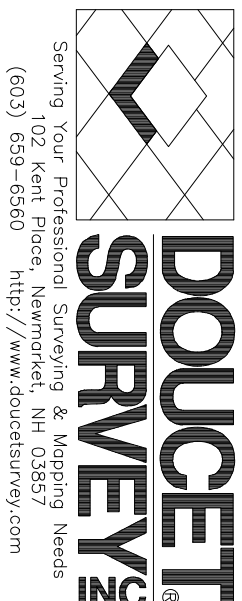
REFERENCE PLAN:

"SUBDIVISION PLAT, MAP 231 LOT 1 ROUTE 9 BARRINGTON, NH," PREPARED FOR TOWN OF BARRINGTON BY JONES & BECH ENGINEERS, INC. DATED JANUARY 11, 2013. S.C.R.D. PLAN# 104-89-87

EXISTING CONDITIONS PLAN

FOR
MJS ENGINEERING PC
BARRINGTON INDUSTRIAL PARK
BARRINGTON, NEW HAMPSHIRE

DRAWN BY:	J.P.E.	DATE:	AUGUST 6, 2014
CHECKED BY:	W.J.D.	DRAWING NO.:	38704
JOB NO.:	3870	SHEET	1 OF 1



LEGEND

- 4" SQUARE GRANITE BOUND FOUND
- W/ DRILL HOLE
- IRON PIPE/ROD FOUND
- FENCE POST
- UTILITY BOX
- ELECTRIC MANHOLE
- JURISDICTIONAL WETLAND SYMBOL
- DECIDUOUS TREE
- CONCRETE
- RIP RAP

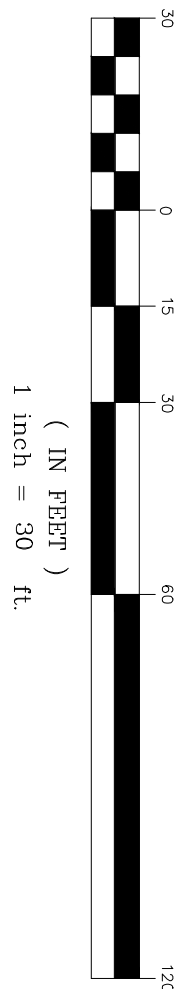
- LEDGE OUTCROP
- DRAINAGE FLOW DIRECTION ARROW
- TYPICAL
- EDGE OF PAVEMENT
- CONC.
- FILED END SECTION
- FES
- BARBED WIRE
- DRAIN LINE
- APPROX. ABUTTERS LOT LINE
- EASEMENT LINE
- TREE LINE
- PROPERTY LINES
- CONTOUR LINE
- EDGE OF JURISDICTIONAL WETLAND (SEE NOTE #9)

EASEMENT LEGEND

- ACCESS EASEMENT "B"
- (SEE REFERENCE PLAN)
- ACCESS EASEMENT "C"
- (SEE REFERENCE PLAN)
- UTILITY EASEMENT "A"
- (SEE REFERENCE PLAN)
- ACCESS EASEMENT "A"
- (SEE REFERENCE PLAN)
- DRAINAGE EASEMENT "A"
- (SEE REFERENCE PLAN)
- MAINTENANCE EASEMENT "A"
- (SEE REFERENCE PLAN)

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	25.00'	41.12'	36.64'	N 00°17'05" E	94°14'24"	26.92'
C2	83.00'	188.46'	150.51'	N 18°06'46" E	130°05'45"	178.38'

GRAPHIC SCALE



TAX MAP 234 LOT 1.4
BARRINGTON, TOWN OF
(CLARK/GOODMILL)
PO BOX 660
333 CALEF HWY
BARRINGTON, NH 03825
S.C.R.D. BOOK 2326, PAGE 756

TM 3870 A
MAG NAIL SET, IN ROOT
COLLAR OF 12" OAK
ELEV.=225.37'

R E D E M P T I O N D R I V E

TAX MAP 234 LOT 1.3
REDEMPTION ROAD, LLC
PO BOX 830
BARRINGTON, NH 03825
S.C.R.D. BOOK 4117, PAGE 720

NOTE:
ALL ELECTRIC, GAS, TEL, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC
MAINTENANCE LOCATIONS AND ACCESS POINTS ARE SHOWN IN SCHEMATIC. LOCATIONS ABOVE
MAINTENANCE LOCATIONS ARE SHOWN IN SCHEMATIC. LOCATIONS ABOVE MAINTENANCE
SERVICES CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE
LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

NO.	DATE	DESCRIPTION	BY

PLANNING BOARD APPROVAL BLOCK

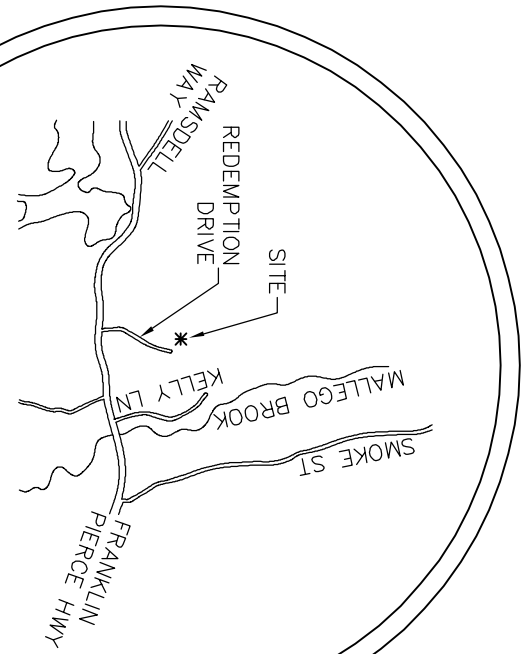
TAX MAP 225 LOT 57
KELLHER CHRISTOPHER & SUZANNE
BARRINGTON, NH 03825
S.C.R.D. BOOK 1824 PAGE 363

SITE DATA BLOCK

PLAN INTENT: CONSTRUCT A 26,640 SF BUILDING FOOTPRINT WITH 26,640 SF OF INDUSTRIAL SPACE AND 6,240 SF OF OFFICE SPACE. THE LOWER (1ST FLOOR) AREA OF THE BUILDING CONTAINS THE OFFICE SPACE AND THE UPPER (2ND FLOOR) AREA CONTAINS THE INDUSTRIAL SPACE. A DRIVEWAY IS PROVIDED AROUND THE PERIMETER OF THE BUILDING FOR ACCESS TO THE BUILDING. A DRIVEWAY WITH ADA ACCESSIBLE PARKING IS LOCATED ALONG THE FRONT OF THE BUILDING.

ZONE: REGIONAL COMMERCIAL (RC)

DIMENSIONAL REQUIREMENTS- REGIONAL COMMERCIAL (RC)			
	STANDARD	PROPOSED	
MINIMUM LOT SIZE (SQUARE FEET)	8,000	12,500	
MINIMUM FRONTAGE (FEET)	200	255	
MINIMUM BUILDING SETBACKS (FEET)	40	104±	
SIDE/REAR (FEET)	30	37±	
MAXIMUM BUILDING HEIGHT (FEET)	35	78D<40'	
MAXIMUM BUILDING COVERAGE	40%	20.3% (26,640 SF)	



LOCUS
SCALE: 1"=2,500'

GENERAL NOTES:

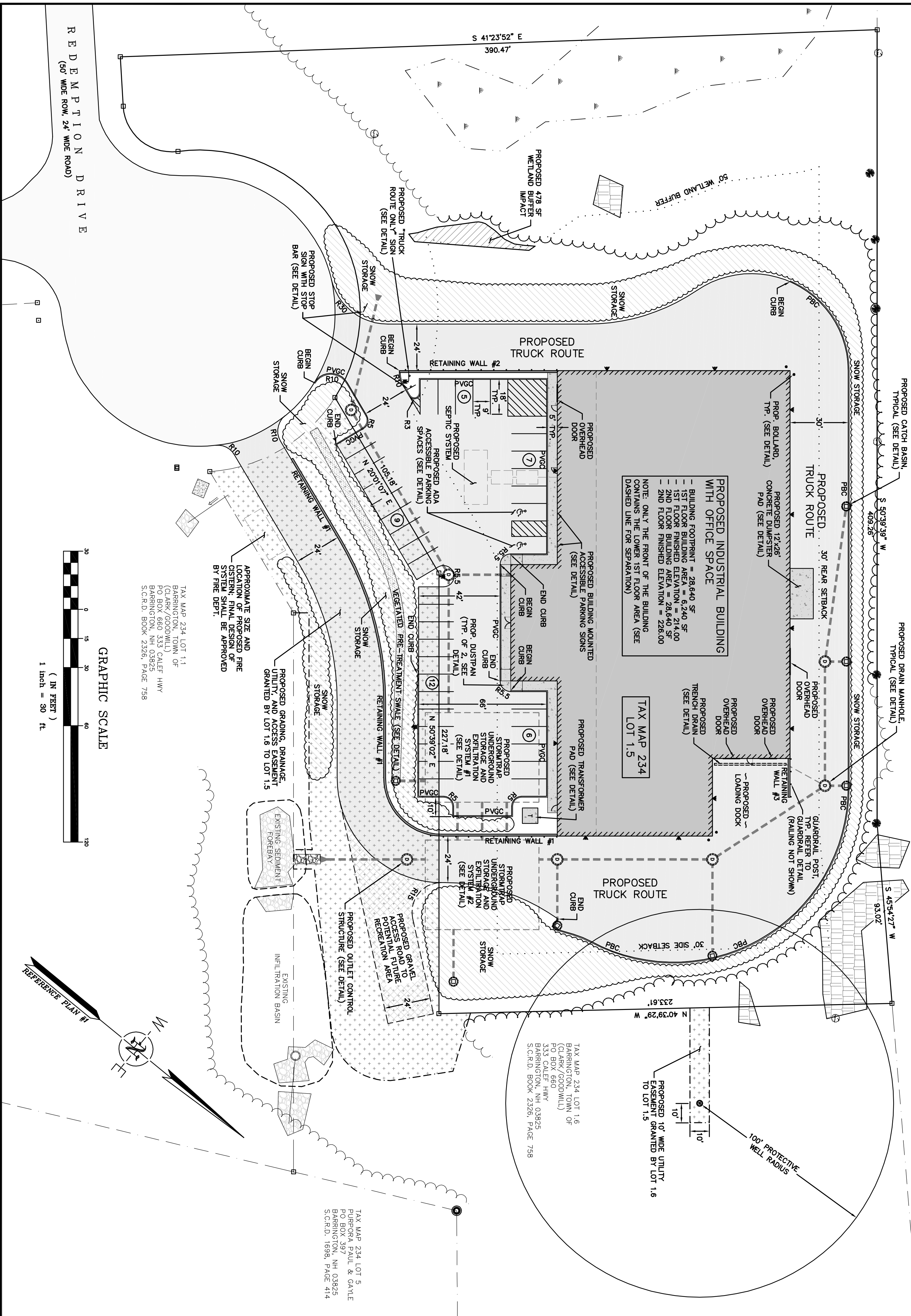
- OWNER OF RECORD:
BARRINGTON, TOWN OF
CLARK, GOODWILL
100 RYAN BLVD
333 CALF HWY
BARRINGTON, NH 03825
S.C.R.D. BOOK 2326, PAGE 758
- LOT AREA: 3.006 ACRES
- FIELD SURVEY PERFORMED BY E.J.S. & W.D.C. OF DOUGET SURVEY, INC. DURING 07/14 SURVEY. A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TS33 DATA COLLECTOR AND A SOKKIA BEI A1010 LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- JURISDICTIONAL WETLANDS DELINEATED BY WEST ENVIRONMENTAL, INC. DURING JULY 2014 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT Y-87-1.
- HORIZONTAL DATUM BASED ON MAGNETIC NORTH PER REFERENCE PLAN.
- VERTICAL DATUM BASED ON NAVD83(GEOD12A) DERIVED FROM A STANDARD MH001 DISK STAMPED-027 0370.
- REFERENCE PLAN:
A) SUBDIVISION PLAN, MAP 231 LOT 1 ROUTE 9 BARRINGTON, NH, PREPARED FOR BARRINGTON, TOWN OF CLARK, GOODWILL & BEACH ENGINEERS, INC. DATED JANUARY 11, 2013. S.C.R.D. PLAN#04-85-87
- IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
- REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY BEING REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED AND COMPLETED INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE NHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- IN ACCORDANCE WITH BARRINGTON SITE PLAN REVIEW REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE NHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- SNOW SHALL BE STORED IN THE LOCATIONS SHOWN ON THIS PLAN.
- SITE LIGHTING WILL BE LOCATED AS SHOWN ON THE SITE PLAN AND LIGHTING PLAN. ALL NON-ESSENTIAL LIGHTING WILL BE REQUIRED TO BE TURNED OFF AFTER BUSINESS CLOSING FOR SECURITY OR AESTHETICS WILL BE FILLED OUT-OFF OR OF A SHIELDED TYPE, NOT ALLOWING ANY UPWARD DISTRIBUTION OF LIGHT.
- LANDSCAPING IS SHOWN ON THE LANDSCAPE PLAN (SHEET 1.1).
- SHEET C1 SHALL BE RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS. ALL OTHER PLANS ARE ON FILE AT THE TOWN HALL.
- WATER IS SUPPLIED BY AN ONSITE WELL.
- FLOOD HAZARD "X" (OUTSIDE THE 500 YEAR FLOOD ZONE) PER FIRM MAP #33017002880, DATED 5/17/05.
- INDICES ALTERATION OF TERRAIN PERMIT # _____
INDICES SUBSURFACE BUREAU C.A. # _____
INDICES WATER SUPPLY PERMIT # _____

PARKING REQUIREMENTS

USE	AREA	REQUIRED	PROVIDED
INDUSTRIAL	26,640 SF	1.5 SPACES/1,000 SF = 43 SPACES	0 SPACES
OFFICE	6,240 SF	1 SPACE/300 SF = 21 SPACES	10 SPACES

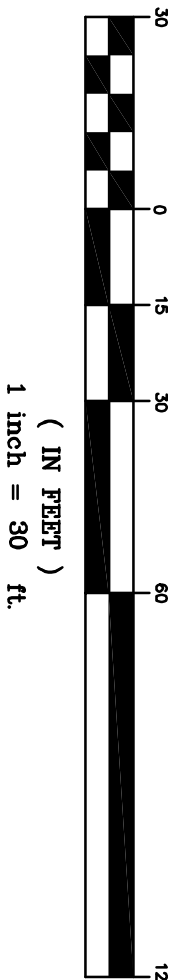
NOTE: 30 TO 40 EMPLOYEES ANTICIPATED

UTILITIES NOTE:
GAS, TELEPHONE, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATION FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE: 1-888-DIG-SAFE (1-888-344-7235)



TAX MAP 234 LOT 1.1
BARRINGTON, TOWN OF
CLARK, GOODWILL
PO BOX 660 333 CALF HWY
BARRINGTON, NH 03825
S.C.R.D. BOOK 2326, PAGE 758

GRAPHIC SCALE
(IN FEET)



REDEMPTION DRIVE
(50' WIDE ROW, 24' WIDE ROAD)

MJS ENGINEERING, PC
CIVIL ENVIRONMENTAL CONSULTING ENGINEERING
5 RAILROAD ST., P.O. Box 359
NEWARK, NH 03857
PHONE: (603) 659-4979, FAX: (603) 659-4627
E-MAIL: MJS@MJS-ENGINEERING.COM

SITE PLAN
prepared for
TURBOCAM

MAP 234, LOT 1.5
ROUTE 9 BARRINGTON, NH

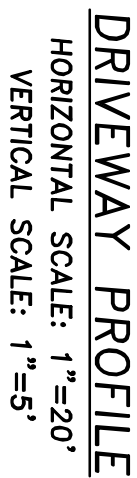
DATE: 9/17/14
SCALE: 1"=30'
DESIGNED BY: JLG/MJS
DRAWN BY: JLG
APPROVED BY: MJS
DWG FILE: 14028C1.dwg

SEAL

NO.	REVISIONS	DATE	INT.
0.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	9/17/14	JLG

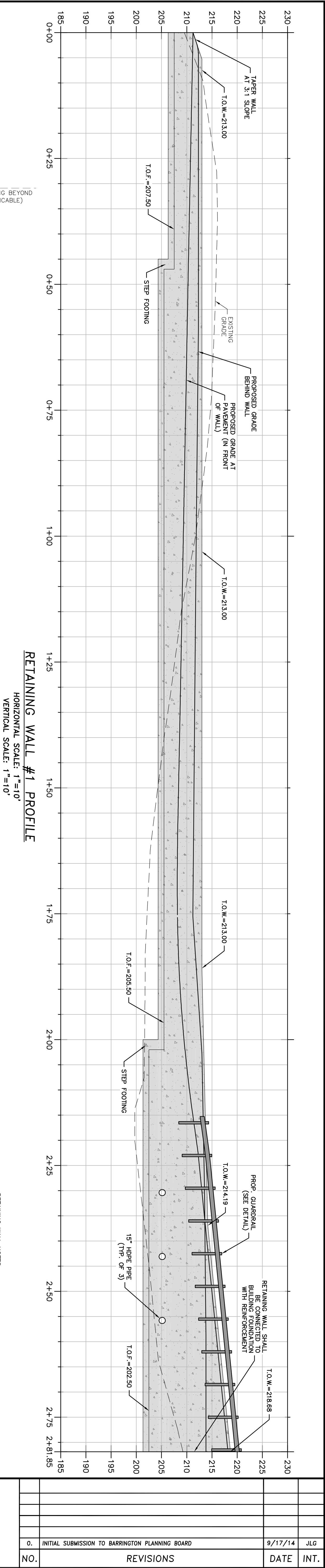
C1

JOB: 14-028



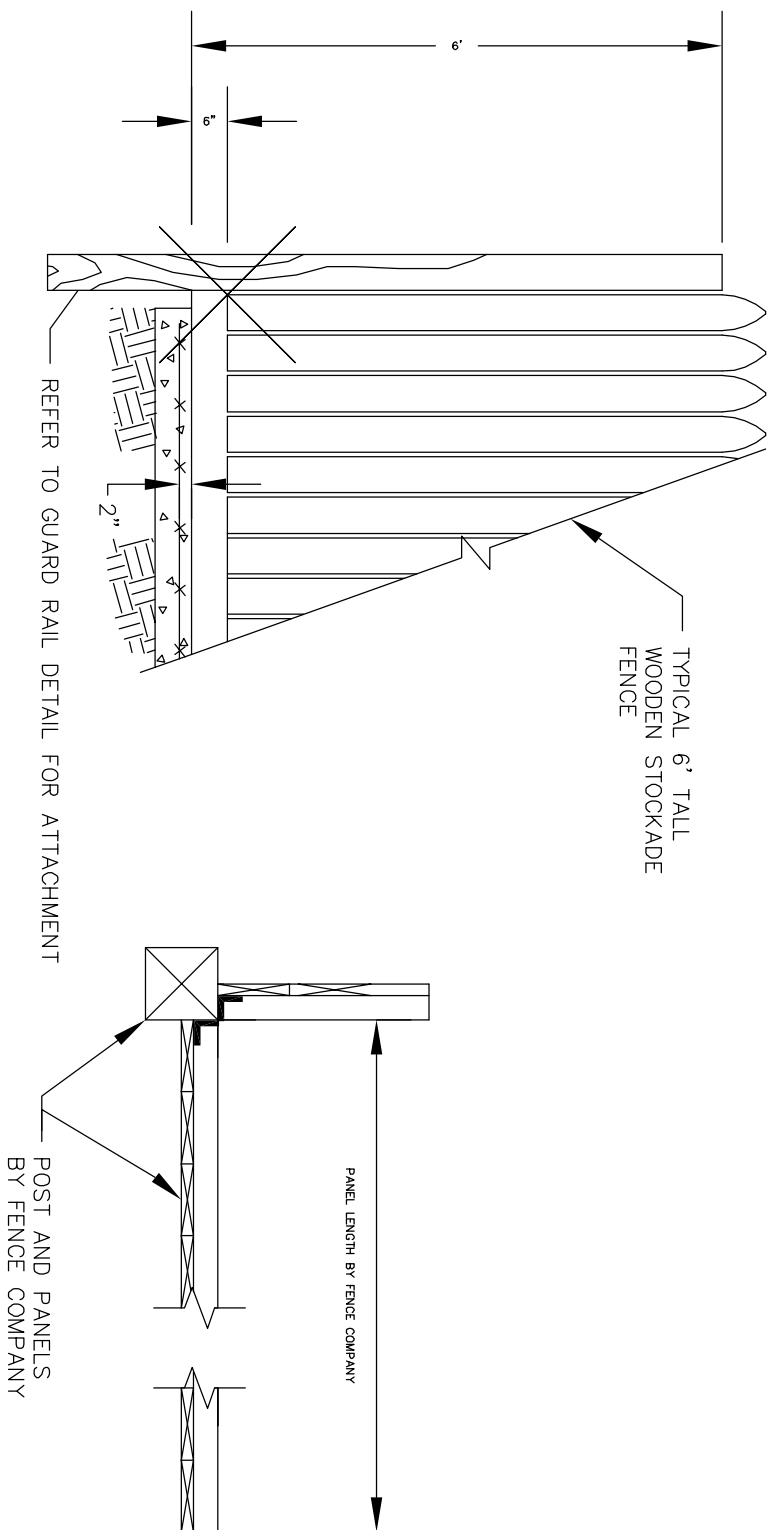
DRIVEWAY PROFILE NOTES:

1. DRAINAGE STRUCTURES AND PIPES ARE NOT SHOWN ON THIS PROFILE. REFER TO SHEET C2 FOR LOCATIONS AND ELEVATIONS.



RETAINING WALL #1 PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

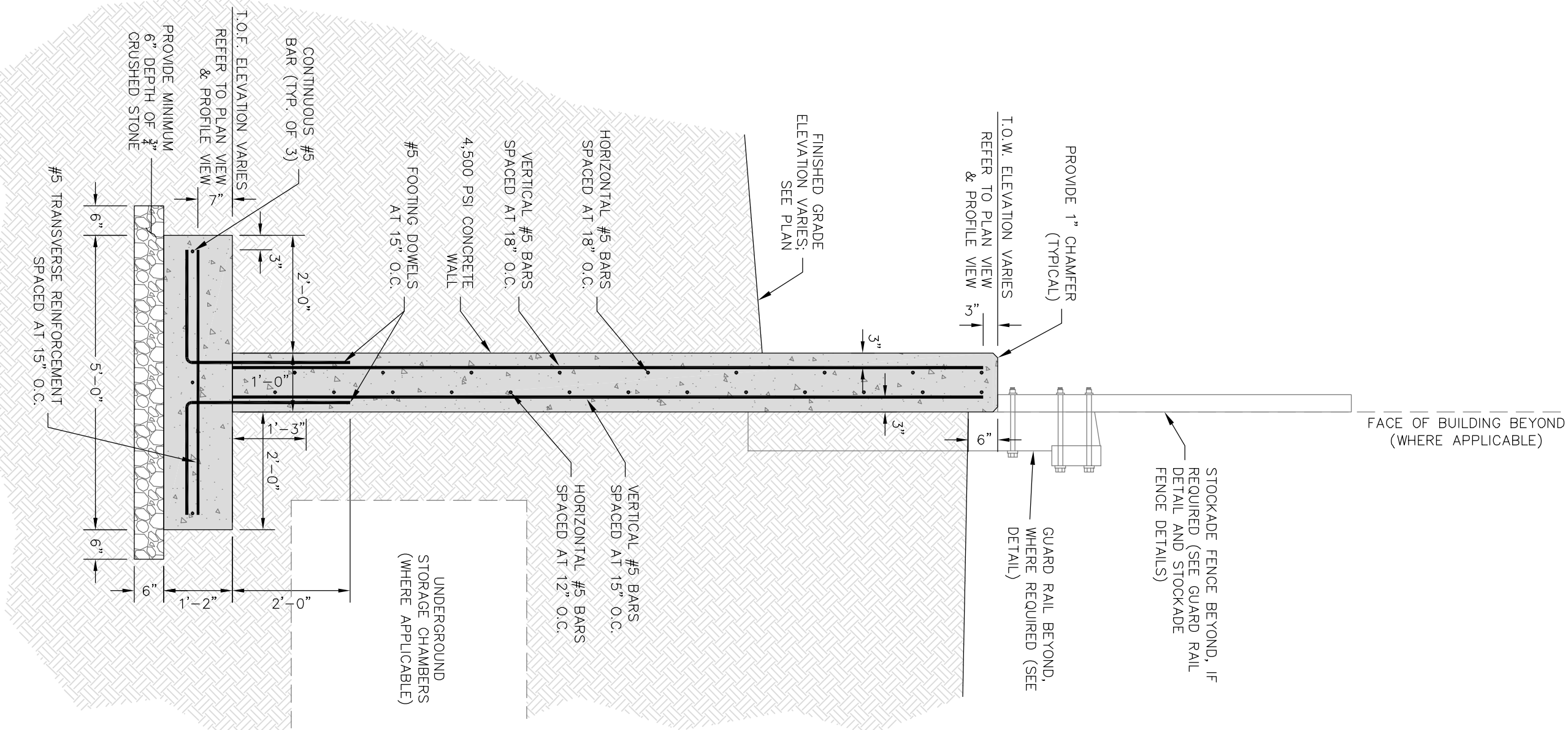
- RETAINING WALL NOTES:**
1. THE RETAINING WALL DESIGN SHOWN ON THIS AND THE OTHER PLAN SHEETS IS PRELIMINARY. THE FINAL DESIGN SHALL BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER. REFER TO THE PROFILE VIEW.
 2. THE RETAINING WALL DETAIL FOR REINFORCEMENT REQUIREMENTS.
 3. RETAINING WALLS #2 & #3 SHALL BE CONSTRUCTED SIMILAR TO RETAINING WALL #1. IN PARTICULAR, BOTH WALLS SHALL HAVE A 6\"/>



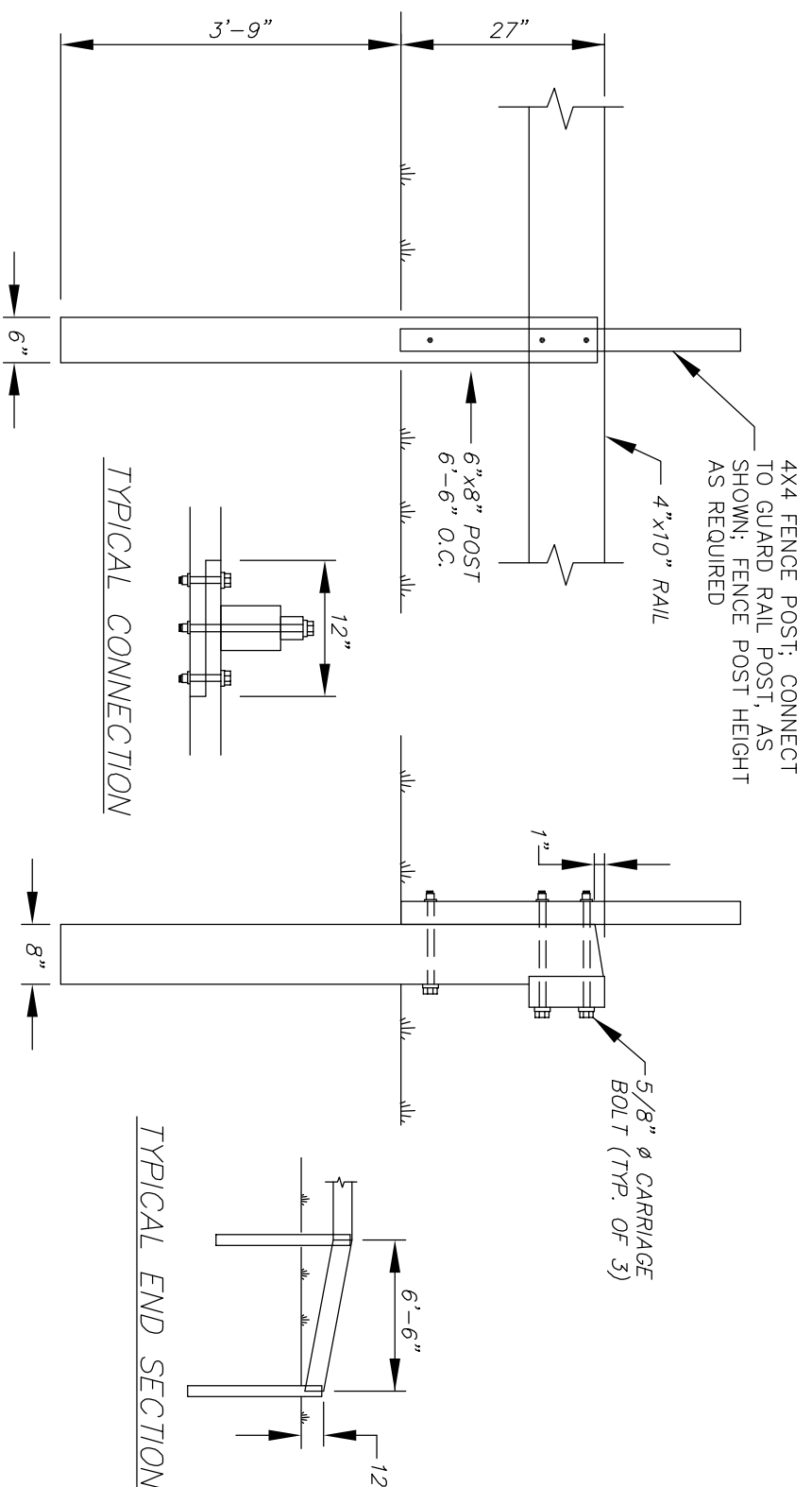
ELEVATION VIEW
SCALE: 3/8" = 1'-0"

PLAN VIEW
SCALE: 3/8" = 1'-0"

STOCKADE FENCE
SCALE: AS NOTED



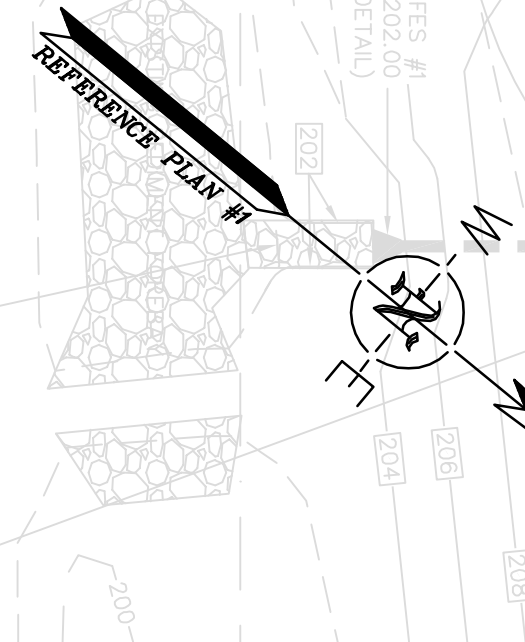
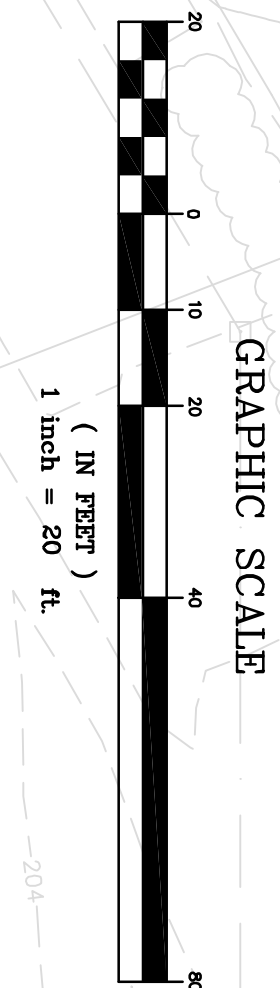
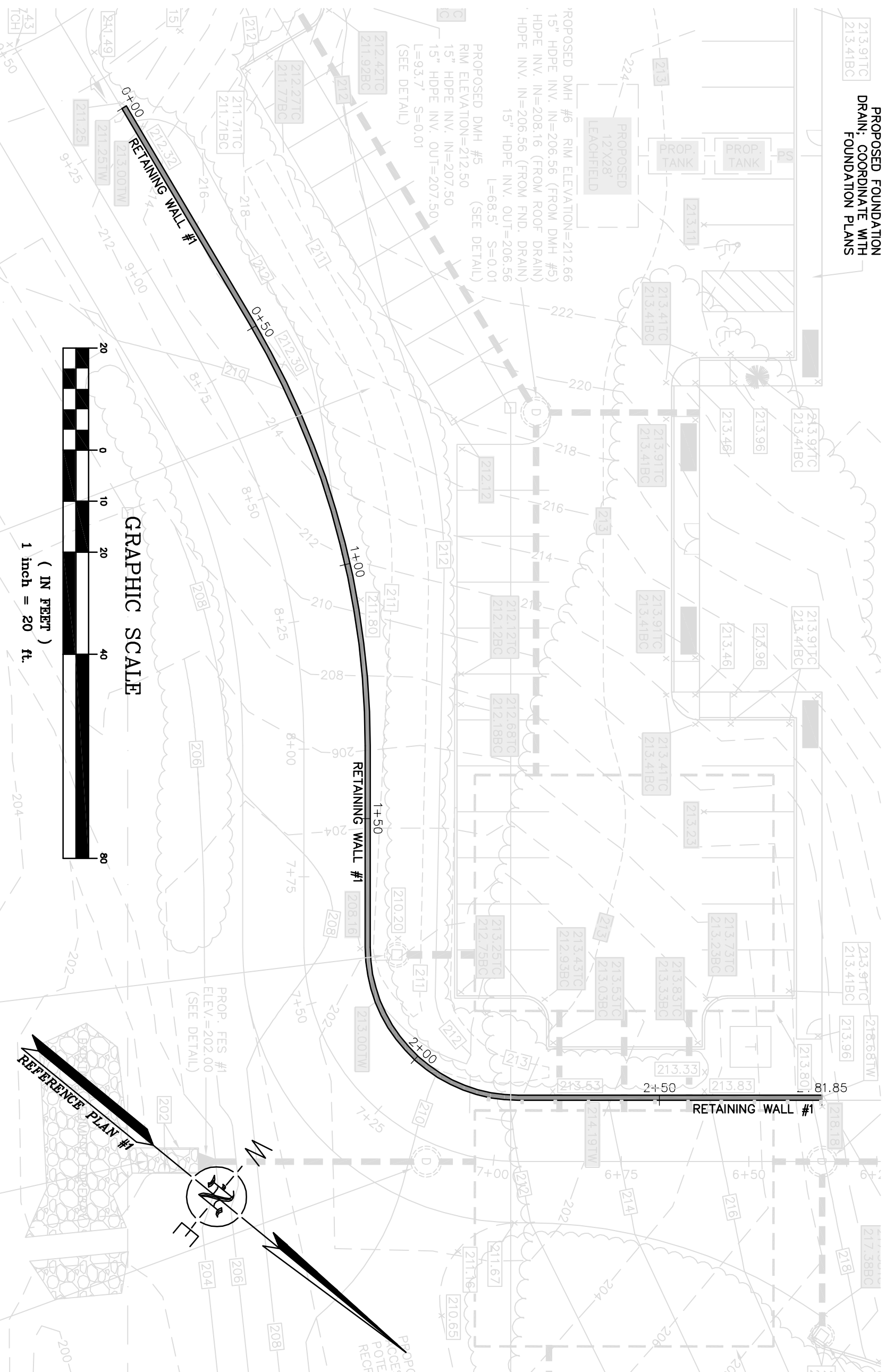
RETAINING WALL DETAIL
SCALE: 1"=2'



GUARD RAIL
SCALE: 1/2" = 1'-0"

GUARD RAIL NOTES:

1. WHERE GUARD RAIL POSTS ARE LOCATED DIRECTLY NEXT TO THE RETAINING WALL, THEY SHALL BE SECURELY FASTENED TO IT PRIOR TO APPROVED BY ENGINEER.



NO.	REVISIONS	DATE	INT.
0.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	9/17/14	JLG

SEAL

DATE: 9/17/14
SCALE: AS SHOWN
DESIGNED BY: JLG/MJS
DRAWN BY: JLG
APPROVED BY: MJS
DWG FILE: 14028C1.dwg

RETAINING WALL DETAILS
prepared for
TURBOCAM

MAP 234, LOT 1.5
ROUTE 9 BARRINGTON, NH

MJS ENGINEERING, PC
CIVIL
ENVIRONMENTAL
CONSULTING ENGINEERING
5 RAILROAD ST., P.O. BOX 359
NEW MARKET, NH 03857
PHONE: (603) 659-4979, FAX: (603) 659-4627
E-MAIL: MJS@MJS-ENGINEERING.COM

JOB: 14-028

C5

STABILIZATION AND EROSION CONTROL NOTES:

AREA OF DISTURBANCE/STABILIZATION

- A. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL THE DISTURBED AREA BE LESS THAN 5' WIDE.
- B. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - 1. THE AREA IS COVERED BY A MINIMUM OF 85% VEGETATIVE GROWTH MEETING THE GRASSATION SPECIFICATIONS OF THIS SPECIFICATION.
 - 2. THE AREA IS COVERED BY A MINIMUM OF 85% VEGETATIVE GROWTH MEETING THE GRASSATION SPECIFICATIONS OF THIS SPECIFICATION.
 - 3. THE AREA IS COVERED BY A MINIMUM OF 85% VEGETATIVE GROWTH MEETING THE GRASSATION SPECIFICATIONS OF THIS SPECIFICATION.
- C. A MINIMUM OF 3' OF NON-EROSIVE MATERIAL SUCH AS STONE OR GRAVEL SHALL BE MAINTAINED AT ALL TIMES.
- D. ALL DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED WITHIN 45 DAYS AND PERMANENTLY STABILIZED NO LATER THAN 3 DAYS AFTER FINAL GRADING.

EROSION CONTROL PRACTICES:

- A. INSTALLATION:
 - 1. INSTALL ALL EROSION CONTROLS AS SHOWN ON THE GRADING PLAN, WITHIN 10 DAYS OF THE START OF CONSTRUCTION.
 - 2. MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION AND IN CONFORMANCE WITH THE EROSION CONTROL AND SEDIMENT CONTROL NOTES ON THIS PAGE. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED.
- B. INSPECTION:
 - 1. INSPECT ALL EROSION CONTROLS WEEKLY AND AFTER EVERY RAIN EVENT OF 0.25 INCHES OR GREATER UNLESS OTHERWISE NOTED.
 - 2. TEMPORARY STABILIZATION PRACTICES SHALL BE INSPECTED ONCE PER WEEK DURING CONSTRUCTION UNTIL EXPOSED SURFACES ARE STABILIZED.
 - 3. ANY SIGNS OF RILL OR GULLY EROSION SHALL BE IMMEDIATELY REPAIRED.
- C. MAINTENANCE:
 - 1. MAINTAIN EROSION CONTROLS PER THE TYPICAL DETAILS AND IN CONFORMANCE WITH THE MAINTENANCE DETAILS FOR EACH PRACTICE.
- D. REMOVAL:
 - 1. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE UNDERLYING SURFACE IS STABILIZED.
 - 2. AFTER REMOVAL, ALL DISTURBED AREAS SHALL BE REGRADED, FERTILIZED, AND RESEEDED MONITOR TO ENSURE VEGETATIVE GROWTH IS ESTABLISHED.
 - 3. ANY AREAS WHERE EROSION CONTROL MEASURES WERE USED TO PREVENT EROSION SHALL BE RESEEDED AS NEEDED UNTIL MINIMUM OF 85% VEGETATIVE COVER IS ESTABLISHED.

COLD WEATHER SITE STABILIZATION

- A. EXPOSED UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE FOLLOWING METHODS PRIOR TO ANY THAW OR SPRING MELT EVENT:
 - 1. ALL EXPOSED AREAS HAVING A SLOPE OF LESS THAN 1:5 WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHALL BE SEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
 - 2. THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 25% AND 65%, DRY WEIGHT BASIS, HAVE AN ORGANIC AND ELONGATED SUCH AS FROM SHREDDED BARK, ASPEN BRINDRUMS, COMPOSTED BARK, OR EQUIVALENT WOOD AND BARK CHIPS. GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS THE ORGANIC MATERIAL.
 - 3. THE MIX SHALL NOT CONTAIN SILTS, CLAYS, OR FINE SANDS.
 - 4. THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 100% PASSING A 3-INCH SCREEN, 90% TO 100% PASSING A 1-INCH SCREEN, 70% TO 100% PASSING A 0.75-INCH SCREEN, AND 30% TO 75% PASSING A 0.25 INCH SCREEN.
 - 5. THE MIX SH ALL BE BETWEEN 5.0 AND 8.0.
- C. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE GREATER THAN 1:5 WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHALL BE SEEDED AND COVERED WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA SPECIFIED ABOVE IN (B)(1)-(5).
- D. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX MEETING THE CRITERIA SPECIFIED ABOVE IN (B)(1)-(5):
 - 1. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 2. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 3. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 4. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 5. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
- E. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX MEETING THE CRITERIA SPECIFIED ABOVE IN (B)(1)-(5):
 - 1. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 2. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 3. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 4. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 5. THE MIX SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
- F. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH (A) OR (B) SHALL BE GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
- G. OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS. GRADE THAT IS FINAL OR THAT ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHALL BE SEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- H. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- I. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- J. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- K. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- L. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- M. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- N. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- O. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- P. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- Q. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- R. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- S. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- T. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- U. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- V. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- W. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- X. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- Y. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.
- Z. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE RESEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR CRIPPER.

TEMPORARY VEGETATION

- A. SITE PREPARATION:
 - 1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED ABOVE.
 - 2. ENSURE RUNOFF IS DIVERTED FROM SEEDED AREA.
 - 3. PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.
- B. SEED BED PREPARATION:
 - 1. SEED BED SHALL BE PREPARED BY HAND OR BY OTHER MEANS.
 - 2. SEED BED SHALL BE PREPARED BY HAND OR BY OTHER MEANS.
 - 3. SEED BED SHALL BE PREPARED BY HAND OR BY OTHER MEANS.
- C. SEEDING:
 - 1. SEED SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 2. SEED SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 3. SEED SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
- D. SEED PER THE FOLLOWING RECOMMENDATIONS:
 - 1. SEED SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 2. SEED SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.
 - 3. SEED SHALL BE APPLIED AT A RATE OF 600 LBS PER ACRE OF 10-10-10.

SEASON	APPLICATION DATE	MATURE TYPE	QUANTITY (lb./Ac.)
EARLY SPRING	NO LATER THAN 5/15	OATS	80
LATE SPRING/ FALL	4/1 TO 6/1 & 8/15 TO 9/15	PERENNIAL RYE	30
EARLY SPRING/ FALL	4/1 TO 5/15 & 8/15 TO 9/15	ANNUAL RYE	40
FALL	8/15 TO 9/15	WINTER RYE	112

- 1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER, TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/2 TO 1 INCH.
- 2. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
- 3. SEEDING RATES SHOULD TYPICALLY OCCUR PRIOR TO SEPTEMBER 15TH.
- 4. AREAS SEEDED BETWEEN MAY 15TH AND AUGUST 15TH SHOULD BE COVERED WITH HAY OR STRAW MULCH.
- 5. VEGETATION SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.
- 6. MAINTENANCE:
 - 1. TEMPORARY SEEDING SHOULD BE INSPECTED WEEKLY AND AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHOULD ALSO BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED.
 - 2. BASED ON INSPECTION, AREAS SHOULD BE RESEED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHOULD BE IMPLEMENTED.

STABILIZATION AND EROSION CONTROL NOTES CONT.:

PERMANENT VEGETATION

- A. SITE PREPARATION:
 - 1. REFER TO SITE PREPARATION FOR TEMPORARY SEEDING.
- B. SEED BED PREPARATION:
 - 1. WORK, LIME, AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A 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 GRAVEL SHOULD BE REMOVED FROM THE SURFACE. 2 INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE, CLODS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIALS.
- C. SEEDING:
 - 1. UNLESS OTHERWISE NOTED, GRASS SEED MIXTURE "C" SHALL BE APPLIED AT THE SPECIFIED RATE AS NOTED IN THE "SEED MIXTURES FOR PERMANENT VEGETATION" TABLE.
 - 2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER OR FERTILIZER. NORMAL SEEDING DEPTH IS FROM 1/2 TO 3/4 INCH.
 - 3. HYDROSEEDING IS USED. THE SEEDBED SHOULD BE FINISHED FLOUNDER WHERE FEASIBLE. EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR FERTILIZER IS USED, THE SEEDBED SHOULD BE FINISHED FLOUNDER.
 - 4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER.
 - 5. APPLY FERTILIZER AT A RATE OF 600 LBS PER ACRE OF 10-10-10.

MULCHING & EROSION CONTROL MATING

- A. GENERAL:
 - 1. APPLY PROOF TO A STORM EVENT. CLOSELY MONITOR THE WEATHER TO ENSURE ADEQUATE WARNING OF SIGNIFICANT STORMS.
 - 2. MULCHING WITHIN A SPECIFIED TIME PERIOD FROM ORIGINAL SOIL EXPOSURE.
 - 3. MULCHING WITHIN A SPECIFIED TIME PERIOD FROM ORIGINAL SOIL EXPOSURE.
 - 4. MULCHING WITHIN A SPECIFIED TIME PERIOD FROM ORIGINAL SOIL EXPOSURE.
 - 5. MULCHING WITHIN A SPECIFIED TIME PERIOD FROM ORIGINAL SOIL EXPOSURE.
- B. TEMPORARY MULCHING:
 - 1. HAY OR STRAW MULCHES.
 - 2. FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS.
 - 3. APPLICATION RATE SHALL BE 2 BALS/1,000 SF (70-90 POUNDS) OR 1.5-2.0 TONS/ACRE TO COVER 75-90% OF THE GROUND.
 - 4. ANCHORING: NETTING SHALL BE LIME, WOOD FIBER, OR BIODEGRADABLE PLASTIC NETTING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - 5. TACKLER: APPLY POLYMER OR ORGANIC TACKLER TO ANCHOR HAY OR STRAW MULCH. APPLY PER MANUFACTURER'S SPECIFICATIONS.
 - 6. TACKLER: APPLY POLYMER OR ORGANIC TACKLER TO ANCHOR HAY OR STRAW MULCH. APPLY PER MANUFACTURER'S SPECIFICATIONS.
- C. PERMANENT MULCHING:
 - 1. FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS.
 - 2. APPLICATION RATE SHALL BE 2 BALS/1,000 SF (70-90 POUNDS) OR 1.5-2.0 TONS/ACRE TO COVER 75-90% OF THE GROUND.
 - 3. ANCHORING: NETTING SHALL BE LIME, WOOD FIBER, OR BIODEGRADABLE PLASTIC NETTING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - 4. TACKLER: APPLY POLYMER OR ORGANIC TACKLER TO ANCHOR HAY OR STRAW MULCH. APPLY PER MANUFACTURER'S SPECIFICATIONS.
 - 5. TACKLER: APPLY POLYMER OR ORGANIC TACKLER TO ANCHOR HAY OR STRAW MULCH. APPLY PER MANUFACTURER'S SPECIFICATIONS.
- D. WINTER APPLICATION: APPLY TO A DEPTH OF 4 INCHES OR DOUBLE THE NECESSARY MULCH WILL NEED TO BE REMOVED AND THE AREA RESEEDED AND MULCHED IN THE SPRING.
- E. MAINTENANCE:
 - 1. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
 - 2. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
 - 3. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.

- A. WOOD CHIPS OR GROUND BARK:
 - 1. APPLY TO A THICKNESS OF 2 TO 6 INCHES. TYPICAL APPLICATION RATE IS 20-25 TONS/ACRE OR 400-900 POUNDS/1,000 SF.
 - 2. INSPECT ANNUALLY AND AFTER RAIN EVENTS OF 2.5 INCHES OR MORE IN A 24 HOUR PERIOD. REPAIR/REPLACE AS NECESSARY.
 - 3. EROSION CONTROL MIX THE MIX SHALL BE AS FOLLOWS:
 - 1. 25-65% DRY WEIGHT BASIS.
 - 2. PARTICLE SIZE BY WEIGHT SHOULD BE: 100% PASSING 7/8 INCH, 30-40% PASSING 1/2 INCH, 30-75% PASSING 1/4 INCH, 30-75% PASSING 1/8 INCH, 30-75% PASSING 1/16 INCH.
 - 3. THE ORGANIC PORTION SHALL BE ELONGATED AND FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS.
 - 4. THE MIX SHALL NOT CONTAIN SILTS, CLAYS, OR FINE SANDS.
 - 5. DOUBLE SALT CONTENT SHALL BE < 4.0MM/100/GM.
 - 6. AND PH OF 5.0-8.0.
 - 4. PLACE BEHIND A LEVEL CONTOUR, BEHIND MUST BE A MINIMUM OF 12" HIGH ON THE UPHILL SIDE AND MAINTAINANCE WIDE.
 - 5. INSPECT PERIODICALLY AND ADEQUATE AS NEEDED TO MAINTAIN INITIAL THICKNESS. REPLACE IF NO LONGER FUNCTIONING AS INTENDED.
- B. PLACEMENT OF BEAM:
 - 1. BE A MINIMUM OF 12" HIGH ON THE UPHILL SIDE AND MAINTAINANCE WIDE.
 - 2. INSPECT PERIODICALLY AND ADEQUATE AS NEEDED TO MAINTAIN INITIAL THICKNESS. REPLACE IF NO LONGER FUNCTIONING AS INTENDED.
- C. MAINTENANCE:
 - 1. INSPECT PERIODICALLY AND ADEQUATE AS NEEDED TO MAINTAIN INITIAL THICKNESS. REPLACE IF NO LONGER FUNCTIONING AS INTENDED.

SOIL STOCKPILES

- A. GENERAL:
 - 1. ADDITIONAL STOCKPILES SHOULD BE LOCATED 50 FEET FROM DITCHES AND CULVERT INLETS.
 - 2. PROTECTION OF STOCKPILES:
 - 1. SOIL STOCKPILES SHOULD BE PROTECTED BY TEMPORARY PERIMETER FENCING.
 - 2. COVER ACTIVE STOCKPILES WITH ANCHORED PROTECTIVE COVERING PRIOR TO EXPECTED STORM EVENTS.
 - 3. INACTIVE STOCKPILES SHALL BE COVERED WITH ANCHORED TARPES OR OTHER COVERING.
 - 4. STOCKPILES THAT ARE A SOURCE OF DUST SHALL BE COVERED.
- B. DUST CONTROL:
 - 1. DUST SHALL BE CONTROLLED ON SITE DURING CONSTRUCTION BY IMPLEMENTING THE FOLLOWING DUST CONTROL MEASURES:
 - 1. MULCHING AND VEGETATIVE COVER TO REDUCE DUST.
 - 2. COVER ACTIVE STOCKPILES WITH ANCHORED PROTECTIVE COVERING PRIOR TO EXPECTED STORM EVENTS.
 - 3. COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.

SEED MIXTURE SELECTION BASED ON SOIL TYPE		SOIL DRAINAGE	
USE	SEEDING MIXTURE	WELL DRAINED	Moderately Well Drained
STEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	GOOD	GOOD
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	B	GOOD	GOOD
LIGHTLY USED PARKING LOTS, GOOD AREAS, OTHER LANDS, AND LOW INTENSITY USE RECREATION SITES.	C	GOOD	GOOD
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	D	GOOD	GOOD
NOTE: POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREAS AND ATHLETIC FIELDS.	E	GOOD	GOOD

SEED MIXTURES FOR PERMANENT VEGETATION	
MIXTURE	POUNDS PER ACRE
A	20
B	20
C	20
D	20
E	20
F	20

CONSTRUCTION SEQUENCING:

- 1. CONTACT DIG SITE PRIOR TO BEGINNING CONSTRUCTION.
- 2. THE OWNER OR SITE GENERAL CONTRACTOR SHALL FILE A NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EPA'S CONSTRUCTION GENERAL PERMIT (CGP). A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE AVAILABLE ON SITE.
- 3. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 4. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 5. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 6. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 7. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 8. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 9. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 10. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 11. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 12. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 13. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 14. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 15. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 16. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.
- 17. INSPECT PERIODICALLY AND BEFORE AND AFTER RAIN STORMS FOR SILTS OR OTHER DEBRIS THAT MAY BE ACCUMULATED ON OR NEAR THE MULCH.

ADDITIONAL NOTES:

- 1. ALL MATERIAL SHALL BE FREE OF DELETERIOUS MATERIALS SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS.
- 2. ALL MATERIAL SHALL BE FREE OF DELETERIOUS MATERIALS SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS.
- 3. ALL MATERIAL SHALL BE FREE OF DELETERIOUS MATERIALS SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS.
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- 16. ALL MATERIAL SHALL BE FREE OF DELETERIOUS MATERIALS SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS.
- 17. ALL MATERIAL SHALL BE FREE OF DELETERIOUS MATERIALS SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS.

BEST MANAGEMENT PRACTICES FOR BLASTING:

- 1. PRE-BLAST CONDITION SURVEY:
 - A MINIMUM OF 30 DAYS PRIOR TO CONDUCTING ANY BLASTING, THE APPLICANT SHALL PREPARE A PRE-BLAST CONDITION SURVEY PLAN AND SUBMIT IT TO THE FIRE DEPARTMENT FOR REVIEW AND APPROVAL. THE PRE-BLAST CONDITION SURVEY SHALL BE CONDUCTED BY A REGISTERED PROFESSIONAL ENGINEER OR A REGISTERED PROFESSIONAL SURVEYOR. THE SURVEY SHALL INCLUDE PHOTOGRAPHS AND VIDEO OF THE EXISTING STRUCTURES AND CONDITIONS ON THE SITE, ADJACENT TO THE SITE OR IN THE VICINITY OF THE SITE. THE PLAN SHALL EXTEND TO SUCH STRUCTURES OR CONDITIONS AS MAY BE AFFECTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS AND THE INSPECTIONS SHALL BE CONDUCTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS AND THE INSPECTIONS SHALL BE CONDUCTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS.
 - 2. THE SURVEY SHALL INCLUDE PHOTOGRAPHS AND VIDEO OF THE EXISTING STRUCTURES AND CONDITIONS ON THE SITE, ADJACENT TO THE SITE OR IN THE VICINITY OF THE SITE. THE PLAN SHALL EXTEND TO SUCH STRUCTURES OR CONDITIONS AS MAY BE AFFECTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS AND THE INSPECTIONS SHALL BE CONDUCTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS.
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- 2. HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES BLASTING BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT CONTAMINATION OF GROUNDWATER INCLUDING PREPARING, REVIEWING AND FOLLOWING AN APPROVED BLASTING PLAN, PROPER DRILLING, EXPLOSIVE HANDLING AND LOADING PROCEDURES, OBSERVING THE BLASTING PROCESS, MONITORING EXISTING BLASTING PERFORMANCE, AND HANDLING AND STORAGE OF BLASTED ROCK.
- 3. THE PRE-BLAST CONDITION SURVEY SHALL BE CONDUCTED BY A REGISTERED PROFESSIONAL ENGINEER OR A REGISTERED PROFESSIONAL SURVEYOR. THE SURVEY SHALL INCLUDE PHOTOGRAPHS AND VIDEO OF THE EXISTING STRUCTURES AND CONDITIONS ON THE SITE, ADJACENT TO THE SITE OR IN THE VICINITY OF THE SITE. THE PLAN SHALL EXTEND TO SUCH STRUCTURES OR CONDITIONS AS MAY BE AFFECTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS AND THE INSPECTIONS SHALL BE CONDUCTED BY THE APPLICANT'S CONSTRUCTION OPERATIONS.
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EROSION CONTROL *Products*

-

CHANNEL BOTTOM/SIDE
SLOPE VERTICES

-

N.T.S

NTS

(PIPE OUTLET TO FLAT AREA
WELL DEFINED CHANNEL)

(PIPE OUTLET TO WELL DEFINED CHANNEL.

WEIGHT SMALLER	SIZE OF
----------------	---------

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	9	TO	12
85	7.8	TO	10.8
50	6	TO	9
15	1.8	TO	3

PIPE OUTLET	W_0	W	L_0	T	d50
-------------	-------	-----	-------	-----	-----

PIPE OUTLET	W ₀	W	L ₀	T	d ₅₀
RIP RAP #1	3.75'	4.2'	10'	18"	6"

NOT TO SCALE

N.T.S

N.T.S.

2" - 3" CRUSHED STONE

12" (TYP)

12" (TYP)

12" (TYP)

FLOW

STONE CHECK DAM

N.T.S.

1. TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE INSPECTED AFTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. AND DAMAGE TO THE STRUCTURES SHALL BE REPAIRED IMMEDIATELY.
2. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM JOE OF THE STRUCTURE.
3. WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED.
4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURE.

N.T.S

GEOSYNTHETIC INLET PROTECTION

SILT SACK IN PLACE

EXPANSION RESISTANT

CATCHBASIN

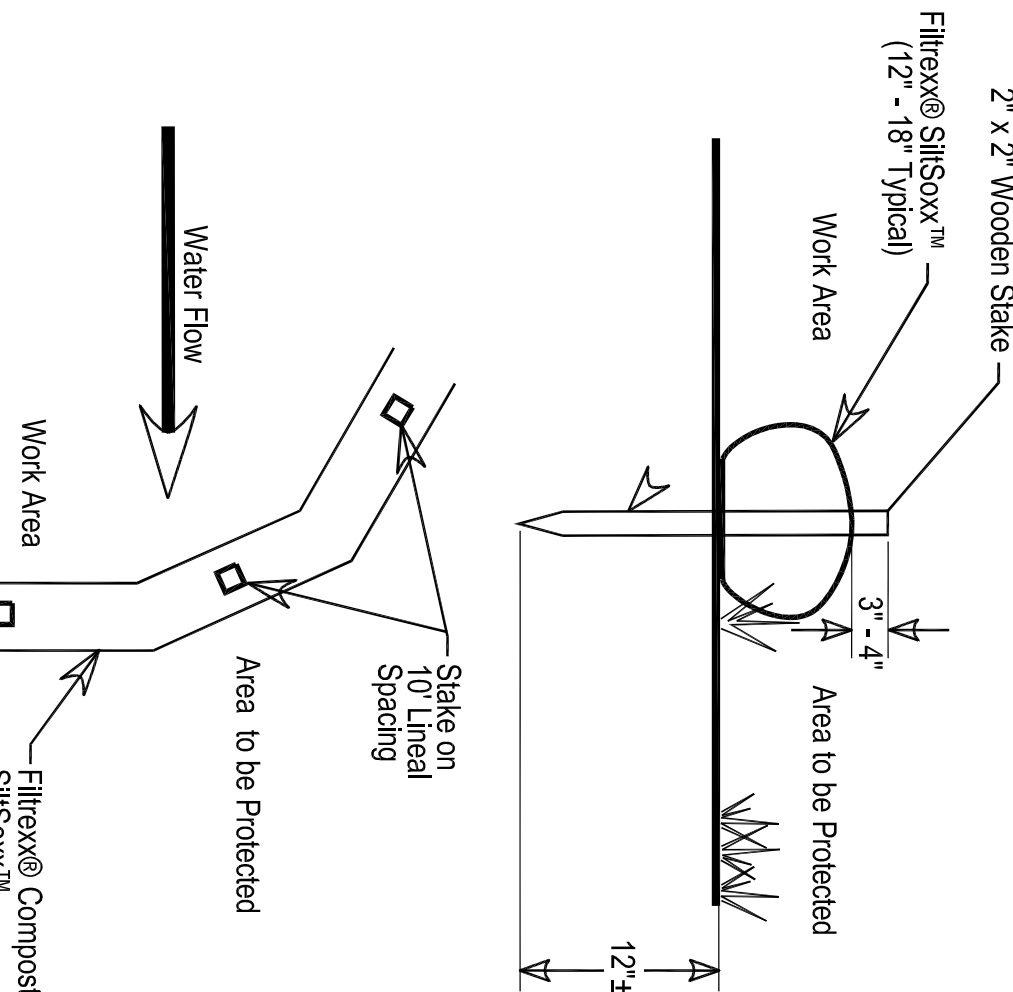
CATCHBASIN GRADE

SiltSack®
SPECIFICATIONS

NTS

N.T.9

- ®SiltSoxx™**
Plan View



prepared for
TURBOCAM

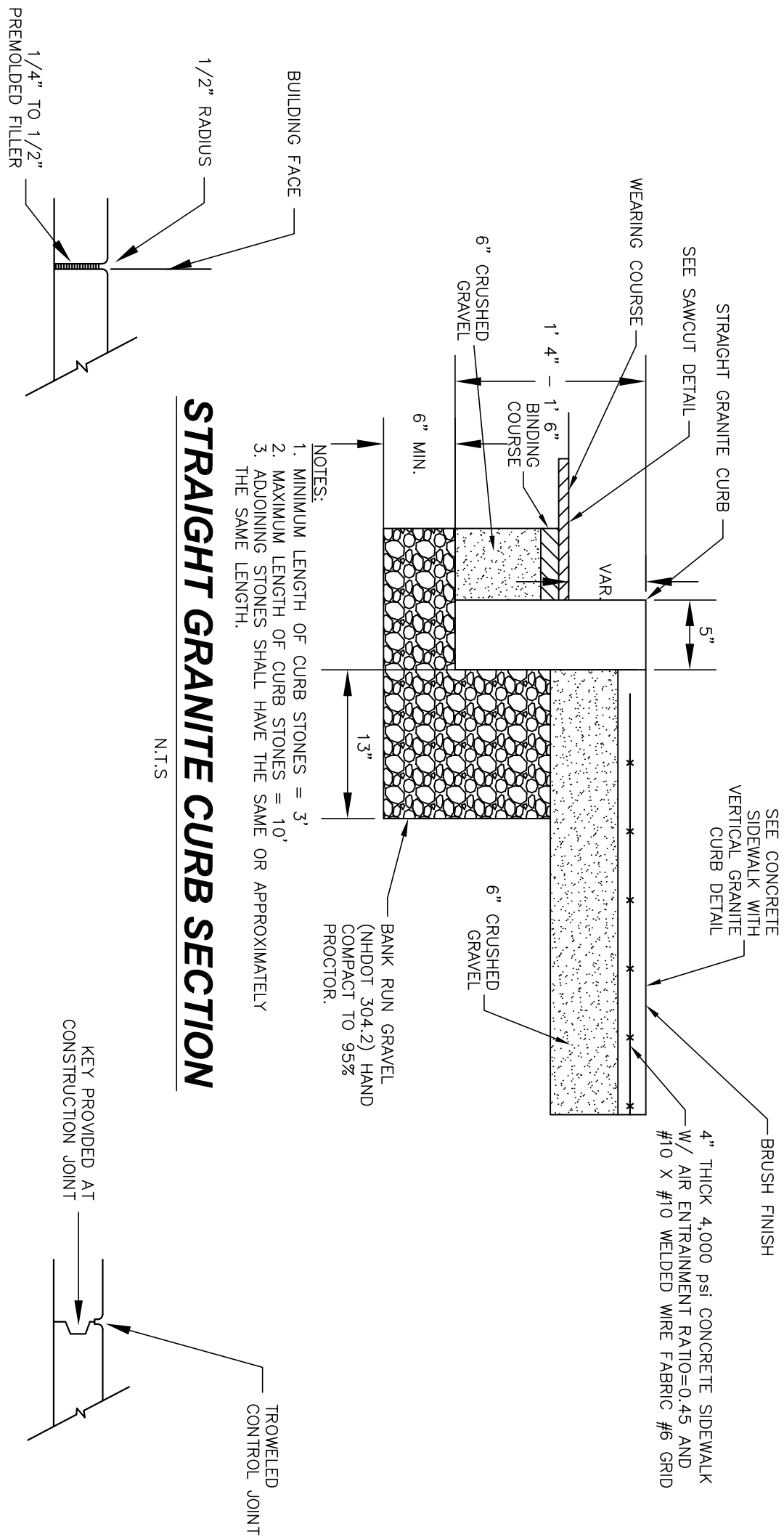
MAP 234, LOT 1.5
TE 9 BARRINGTON

DATE: 9/17/14
SCALE: AS SHOWN
DESIGNED BY: KD/MS
DRAWN BY: KD
APPROVED BY: MJS
DWG FILE:
14-028_cvr&dtlsA.dwg

SEAL

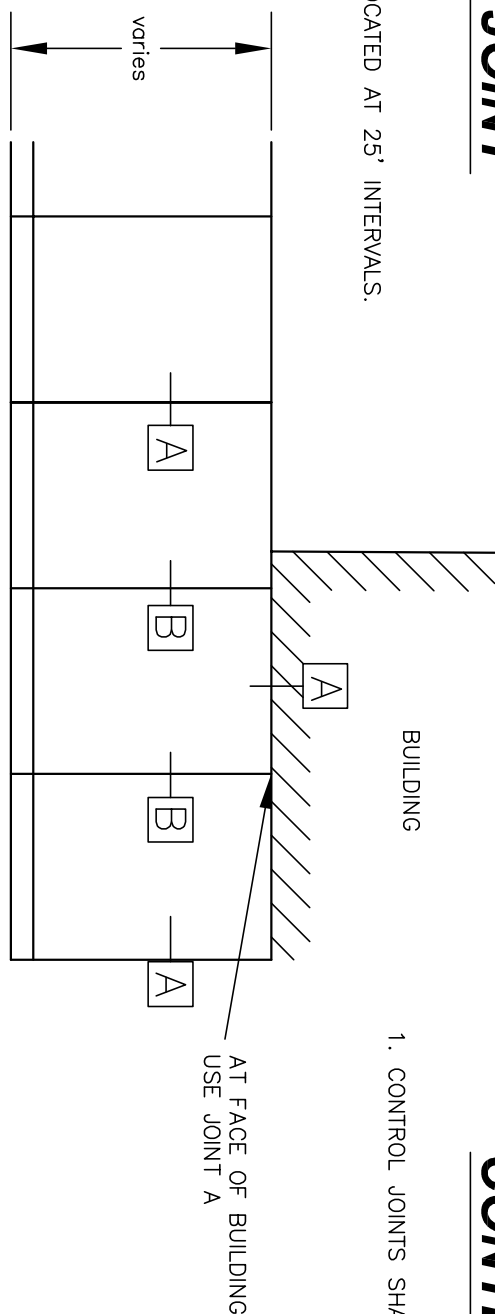
0.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	9/17/14	KD
NO.	REVISIONS	DATE	INT.

JOB: 14-028

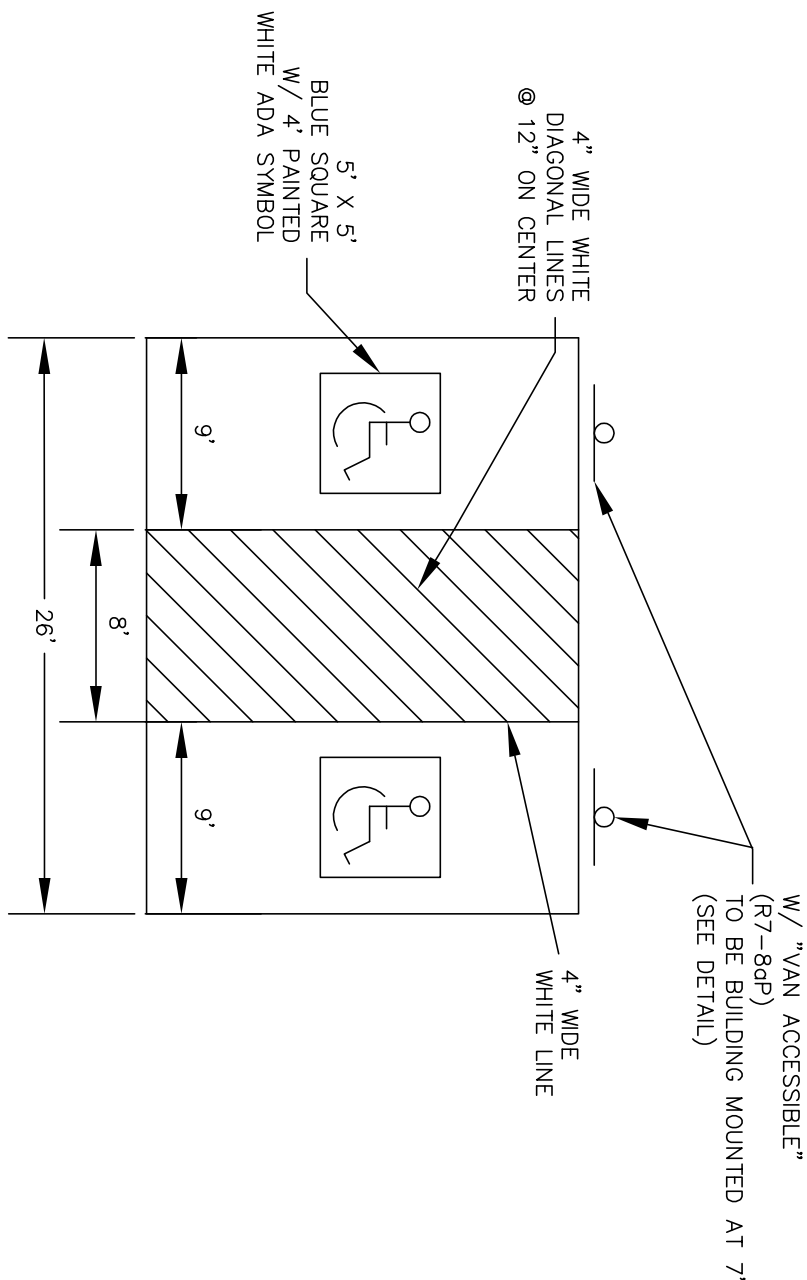
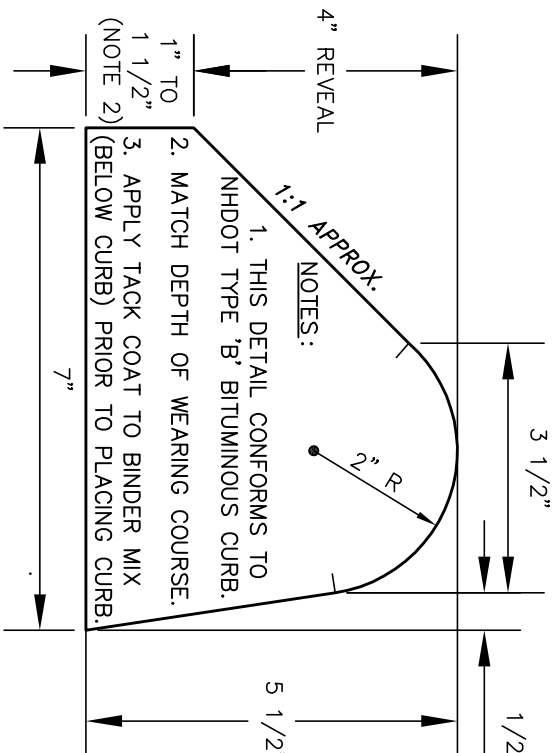
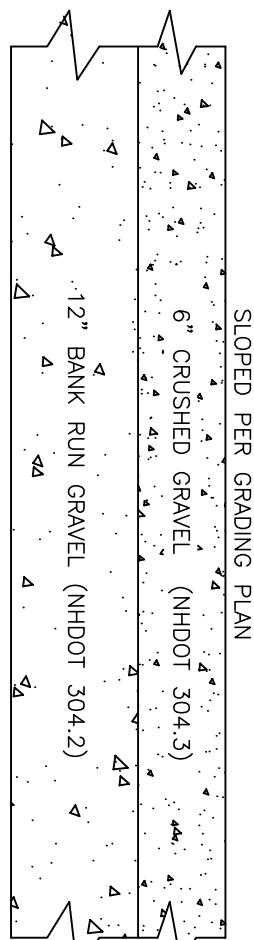
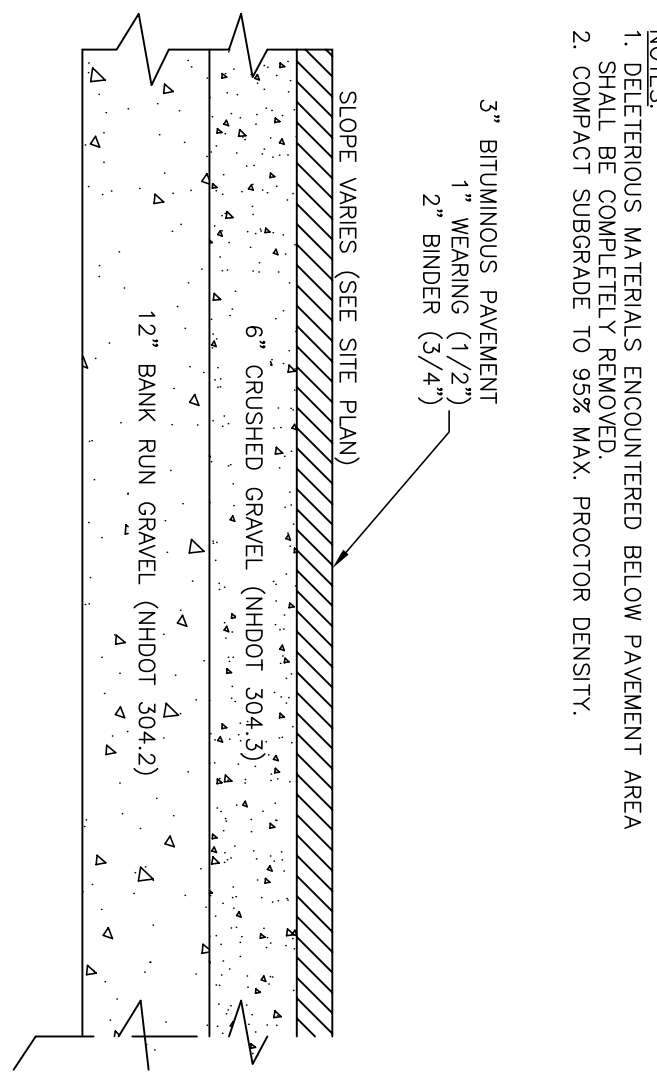
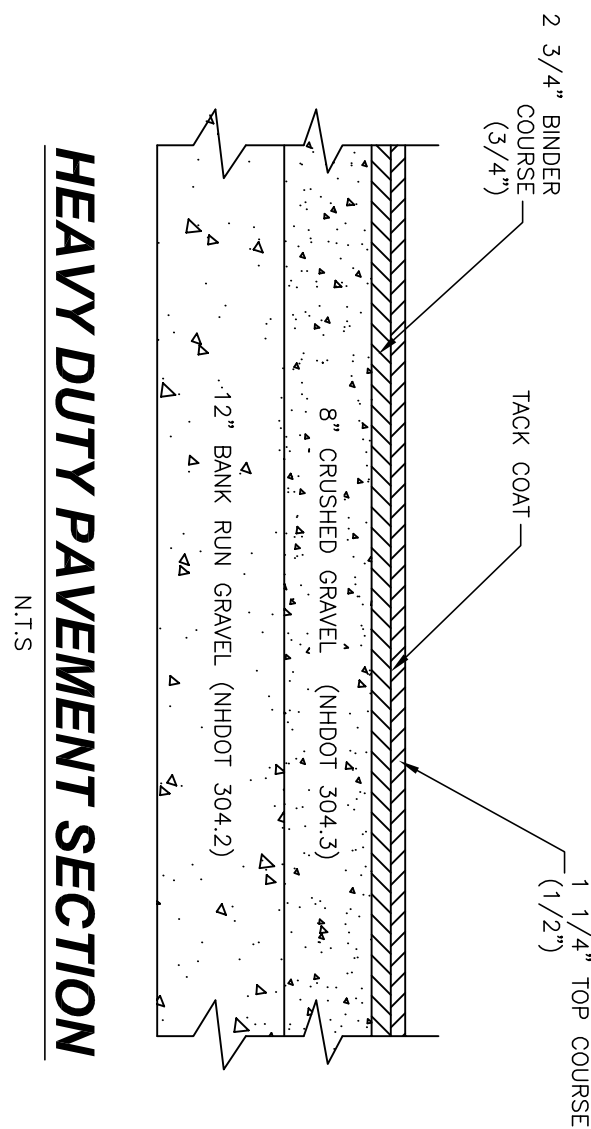
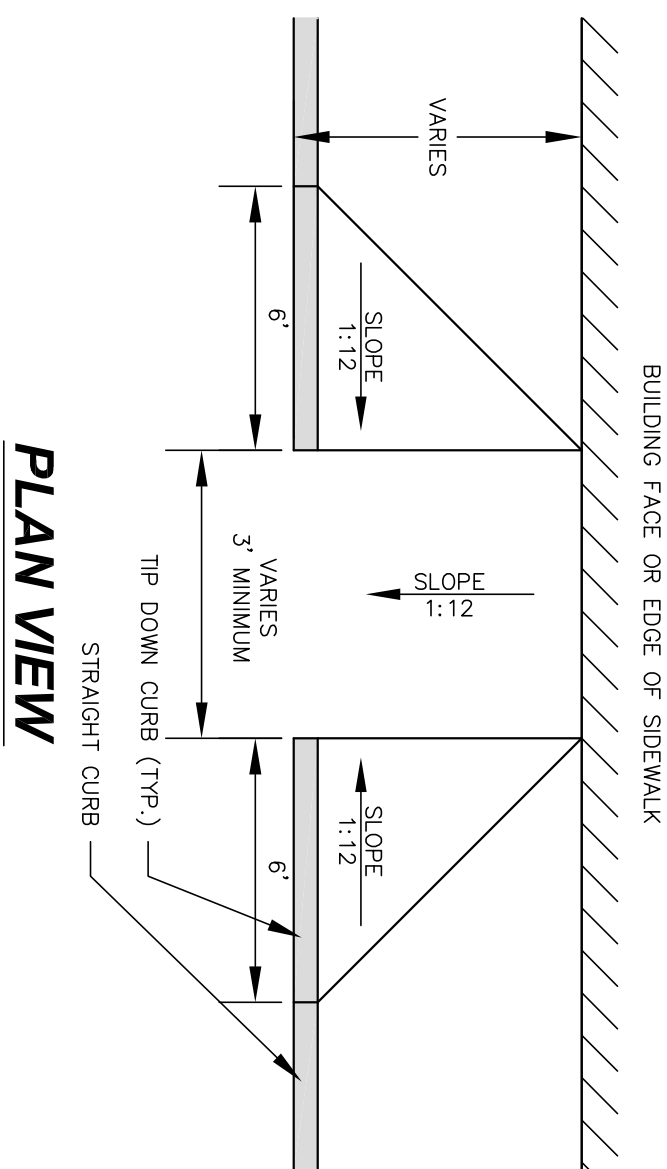
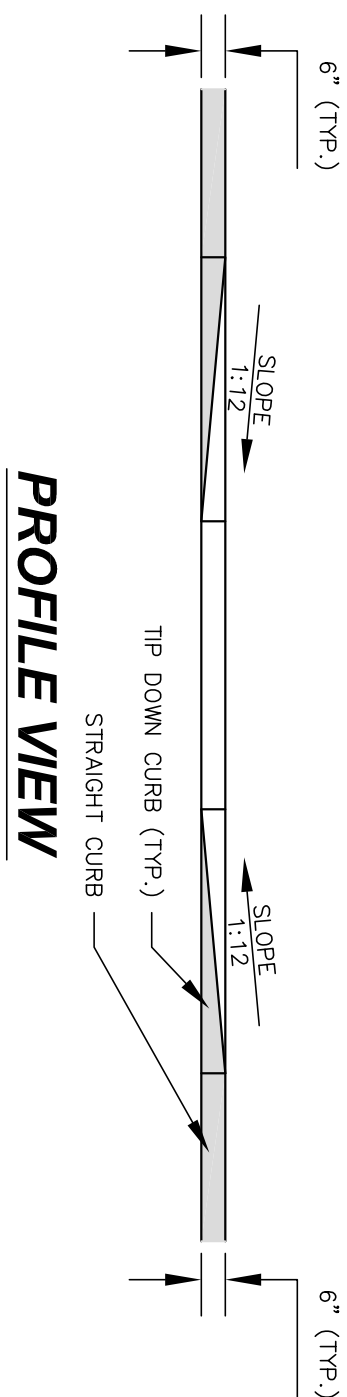


**SECTION A:
EXPANSION JOINT**
N.T.S.

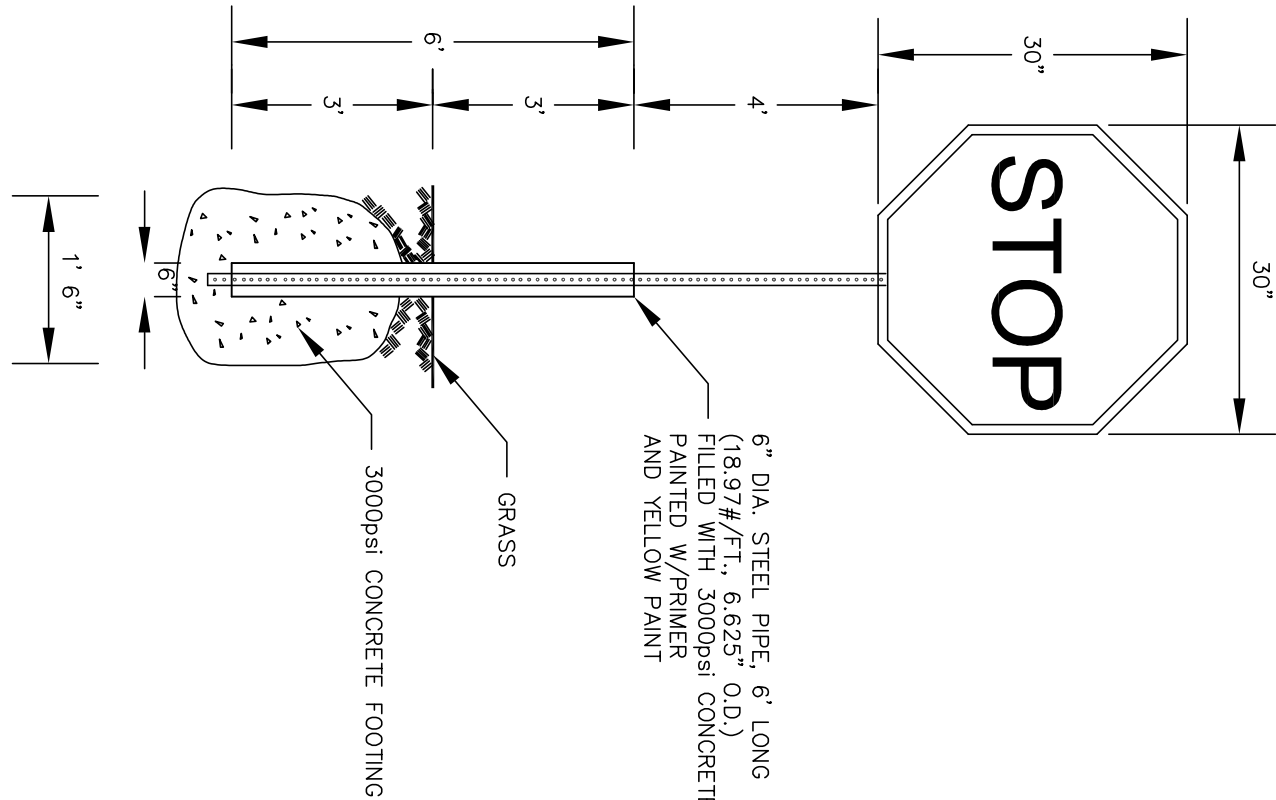
1. EXPANSION JOINTS SHALL BE LOCATED AT 25' INTERVALS.



**SECTION B: CONSTRUCTION
CONTROL JOINT**
N.T.S.



PAVEMENT MARKINGS:
1. STRIPE PARKING AREAS AND DRIVES AS SHOWN, INCLUDING PARKING SPACES, HANDICAP SPACES, AND PAINTED ISLANDS. ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD APPEARANCES FOR HIGHWAY SIGN AND PAVEMENT MARKINGS, AND THE STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS AND METHODS OF CONSTRUCTION. TRAFFIC PAINT SHALL BE 4 INCH WIDE DIAGONAL LINES SPACED AT 3 FT. O.C. BORDERED BY 4 INCH WIDE LINES.



SIGN SCHEDULE

MUTCD NUMBER	SIGN	SIGN DIMENSIONS (WxH)	MOUNT HEIGHT	NOTES
R1-1	STOP	30" X 30"	7'-0"	N/A
R7-8	TRUCK ROUTE	12" X 24"	7'-0"	N/A
R7-8A	TRUCK ROUTE	12" X 6"	5'-0"	N/A
TRUCK ROUTE	TRUCK ROUTE	18" X 24"	7'-0"	BLACK ON WHITE SIGN

NO.	REVISIONS	DATE	INT.
0.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	9/17/14	KD

SEAL

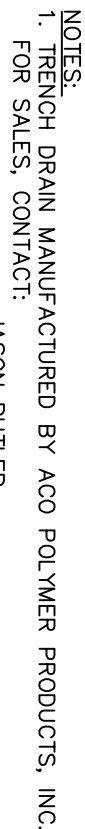
DATE: 9/17/14
SCALE: AS SHOWN
DESIGNED BY: KD/MS
DRAWN BY: KD
APPROVED BY: MJS
DWG FILE: 14-028 cwr&dtlsA.dwg

CONSTRUCTION DETAILS
prepared for
TURBOCAM
MAP 234, LOT 1.5
ROUTE 9 BARRINGTON, NH

MJS ENGINEERING, PC
CIVIL
ENVIRONMENTAL
CONSULTING ENGINEERING
5 RAILROAD ST., P.O. BOX 359
NEW MARKET, NH 03857
PHONE: (603) 659-4979, FAX: (603) 659-4627
E-MAIL: MJS@MJS-ENGINEERING.COM

C8

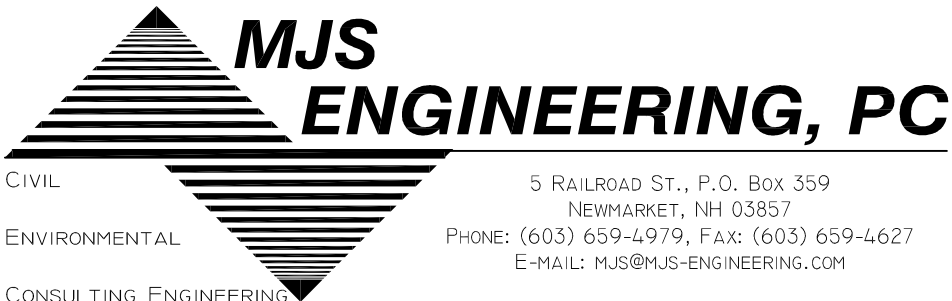
JOB: 14-028

SEAL

DATE: 9/17/14
SCALE: AS SHOWN
DESIGNED BY: KD/MS
DRAWN BY: KD
APPROVED BY: MJS
DWG FILE:
14-028_cvr&dtlsA.dwg

prepared for
TURBOCAM

MAP 234, LOT 1.5
ROUTE 9 BARRINGTON, NH



JOB: 14-028



- TELEPHONE, CABLE, & ELECTRIC TRENCH**



- ## TYPICAL BOLLARD DETAIL



[illegible][illegible]

1. PIPE OPENINGS SHALL MAINTAIN A MINIMUM 1'-0" OF CLEARANCE FROM A VERTICAL EDGE OF THE STORMDRAIN UNIT.
2. MINIMUM OPENING SIZE TO BE DETERMINED BY JUNT HEIGHT. PREFERRED OPENING SIZE 0.28 OR LESS, ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMDRAIN FOR REVIEW.
3. CONNECTING PIPES SHALL BE INSTALLED WITH A 14" CONCRETE COLLAR AND A AGGREGED GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PS SHALL BE USED.
4. THE ANNUALS SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH NONSHRINK GROUT.

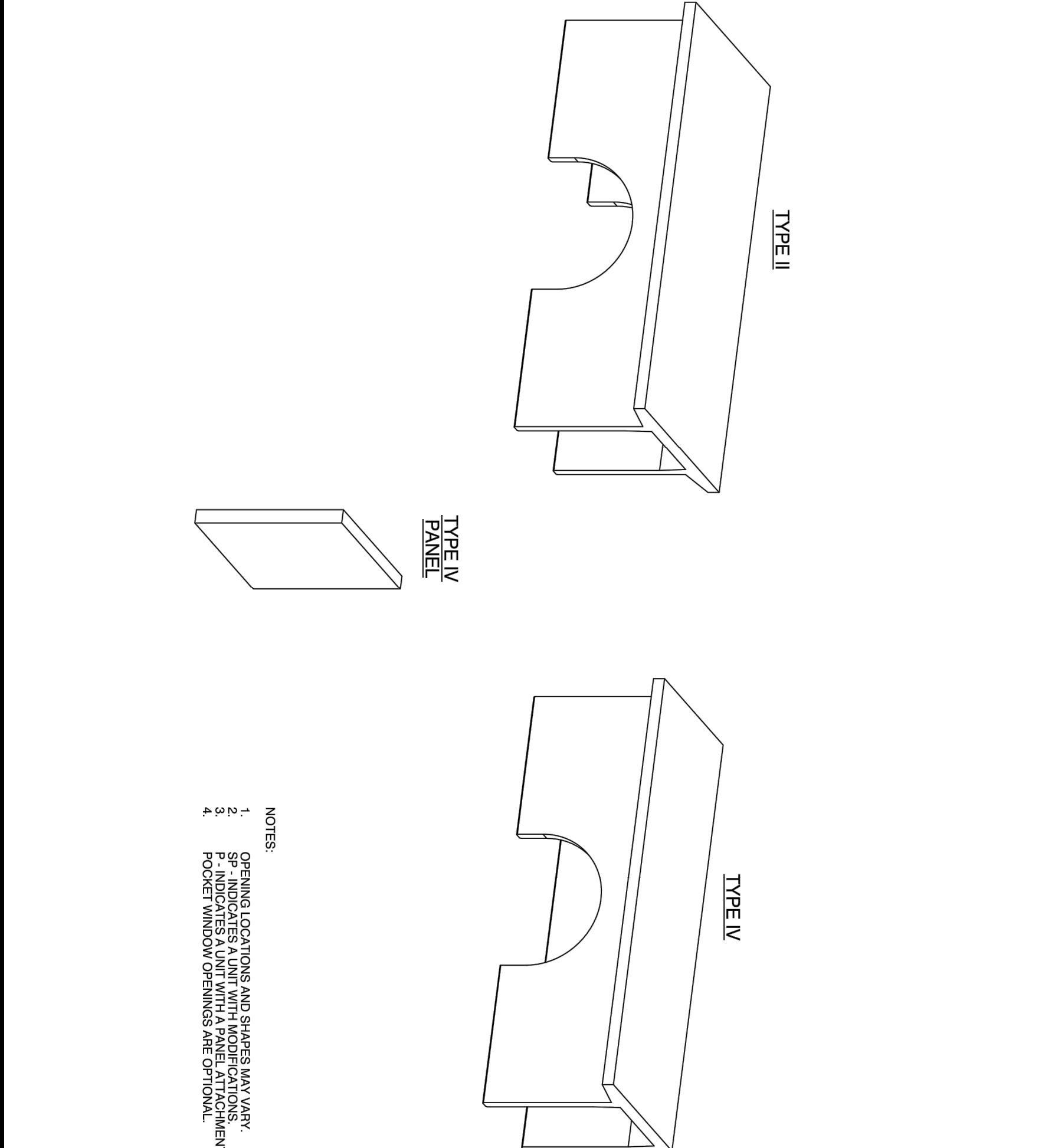
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1. CLEAN AND LIGHTLY LUBRICATE ALL OF PIPE TO BE INSERTED INTO STORMTRAP.
2. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES, BEVEL AND LUBRICATE LEAD END OF PIPE.
3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

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NOTES:

1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP - INDICATES A UNIT WITH MODIFICATIONS.
3. P - INDICATES A UNIT WITH A PANEL ATTACHMENT
4. POCKET WINDOW OPENINGS ARE OPTIONAL.

[illegible]

