
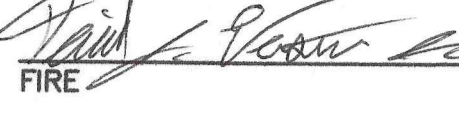

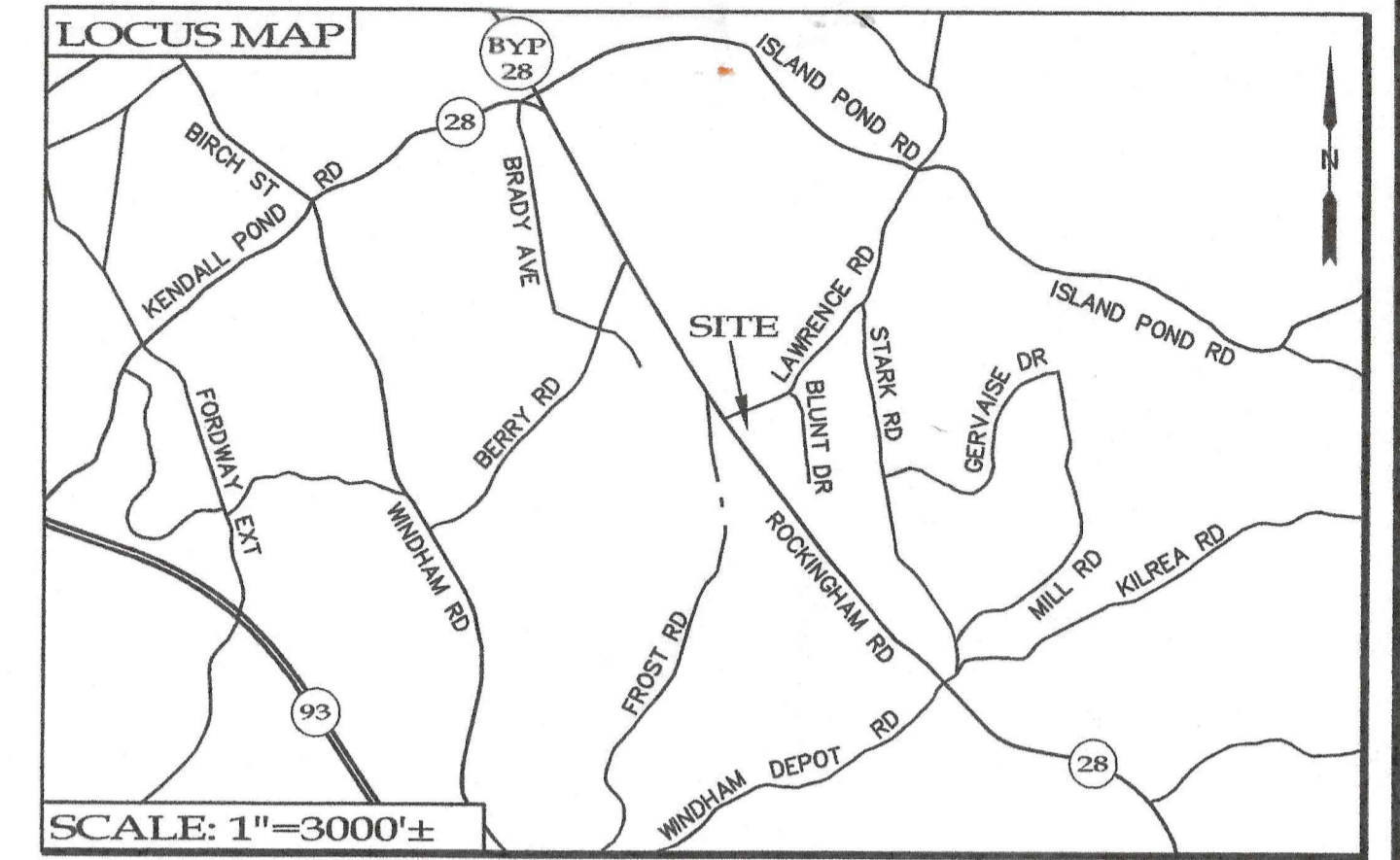


DERRY DEPARTMENT HEAD SIGNATURE BLOCK:

 9-21-22  
 POLICE DATE  
 9/21/22  
 FIRE DATE  
 PUBLIC WORKS DATE  
 9-20-22  
 CODE ENFORCEMENT DATE

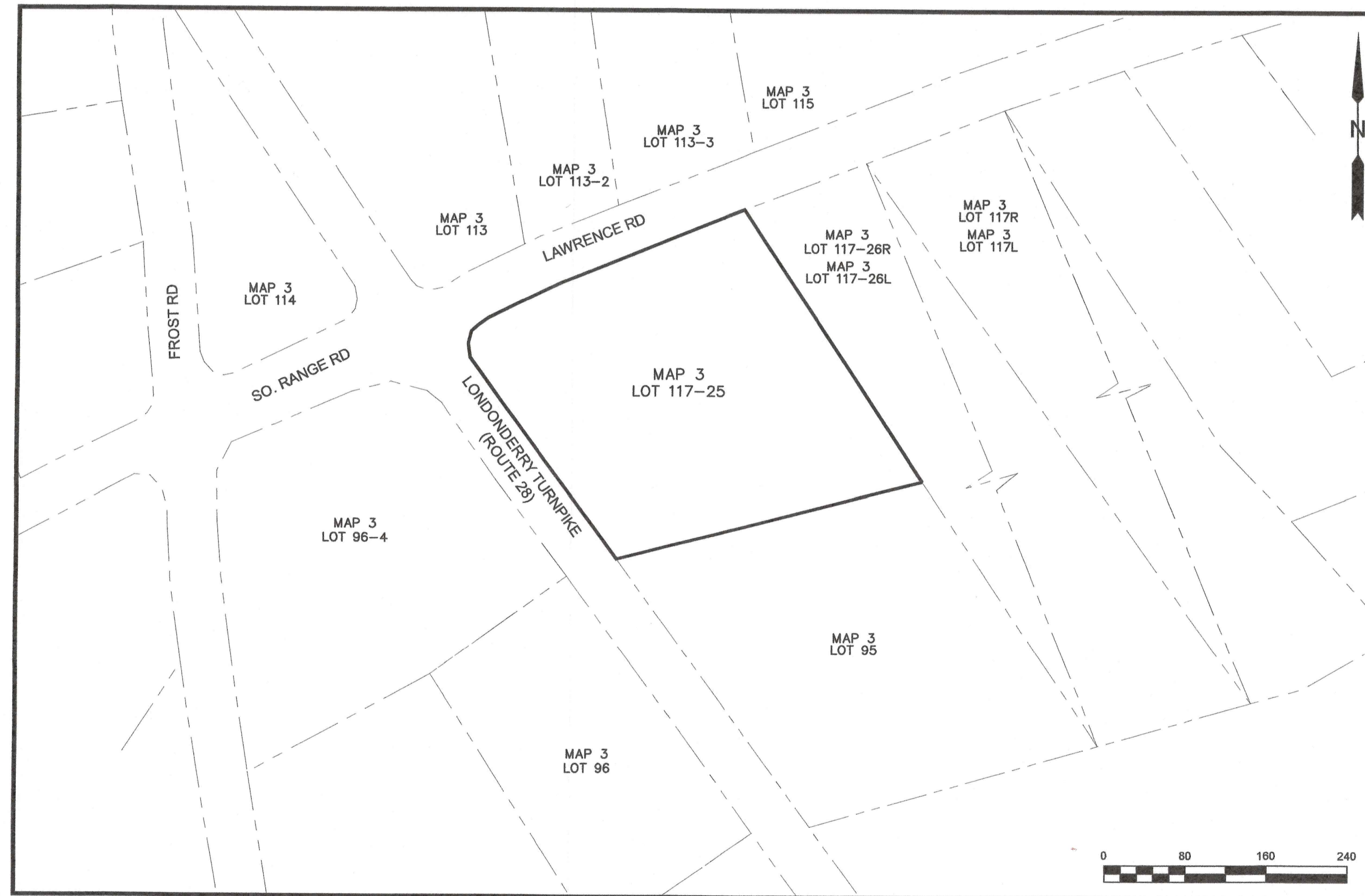
ABUTTERS:

MAP 3 LOT 95 N/F CHANG YU PROPERTIES LLC 97 ROCKINGHAM RD LONDONDERRY, NH 03053	MAP 3 LOT 113-2 N/F MILLER LIVING TRUST PHYLLIS MILLER TRUSTEE 2.5 LAWRENCE RD DERRY, NH 03038	MAP 3 LOT 117R & 117L N/F CYR MICHELLE D. & KEVIN M. CYR TRUSTEES MICHELLE D. CYR REV. TRUST 33 STONEHURST RD PELHAM, NH 03076
MAP 3 LOT 96 N/F GREENWOOD REALTY TRUST HERSEY ROBERT/JENNIFER M TRUST 175 ROCKINGHAM RD DERRY, NH 03038	MAP 3 LOT 113-3 N/F SHANNON & JERRY OLSON 4 LAWRENCE RD DERRY, NH 03038	MAP 3 LOT 117-26L N/F PAMELA J. ANDERSON 1R LAWRENCE RD DERRY, NH 03038
MAP 3 LOT 96-4 N/F GREENWOOD REALTY TRUST HERSEY ROBERT/JENNIFER M TRUST 175 ROCKINGHAM RD DERRY, NH 03038	MAP 3 LOT 114 N/F PAUL R. SR & RUTH M. SMITH TRSTS. PAUL R. SR. & RUTH M. SMITH REV TR. 11 BALSAM LN ROCHESTER, NH 03867	MAP 3 LOT 117-26L N/F JOHN F. & WENDY EVANS 1L LAWRENCE RD DERRY, NH 03038
MAP 3 LOT 113 N/F FLENNIKEN ENTERPRISES LLC 71 MARBLEHEAD RD WINDHAM, NH 03087	MAP 3 LOT 115 N/F DANIEL J. BUTLER PO BOX 862 BROOKLINE, NH 03033	



SHEET INDEX

DESCRIPTION	SHEET NO.
OVERVIEW PLAN (PLS)	1
EXISTING CONDITIONS (PLS)	2
OVERALL SITE PLAN (ATLANTIC)	3
GRADING & DRAINAGE (ATLANTIC)	4
SITE DISTANCE PROFILES (ATLANTIC)	5
SITE DETAILS (ATLANTIC)	6
DRAINAGE AREA MAP (ATLANTIC)	7
PHOTOMETRICS PLAN (ATLANTIC)	8



APPROVED BY THE TOWN OF DERRY  
 PLANNING BOARD ON: \_\_\_\_\_  
 CERTIFIED BY: \_\_\_\_\_  
 CHAIRMAN DATE  
 SECRETARY DATE

LAND OWNERS OF RECORD  
 BRIDGEWAY CHRISTIAN CHURCH  
 148 ROCKINGHAM RD  
 DERRY, NH 03038  
 ROCKINGHAM COUNTY REGISTRY OF DEEDS BOOK 5900 PAGE 2799.

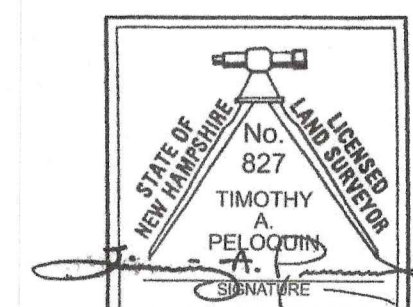
OVERVIEW PLAN  
 "BRIDGEWAY CHRISTIAN CHURCH"  
 MAP 3 LOT 117-25  
 148 ROCKINGHAM ROAD  
 DERRY NEW HAMPSHIRE  
 APRIL 13, 2022  
 LAND OWNER: BRIDGEWAY CHRISTIAN CHURCH  
 148 ROCKINGHAM RD  
 DERRY, NH 03038  
 (RCRD 5900/2799)  
 SCALE: 1"=80' SHEET 1 OF 8

PREPARED BY:  
 Promised Land Survey, LLC  
 PO Box 447  
 Derry, New Hampshire 03038  
 Tel: (603) 432-2112  
 www.PromisedLandSurvey.com  
 Land Surveying • Mapping • Planning • Permitting • Layout

REVISIONS

NO.	DATE	DESCRIPTION	BY
2	8/16/2022	VARIOUS	BJW
1	08-24-2022	SECOND-ROUND TRC SUBMITTAL	TAP

NOTE:  
 NO SHEETS SHALL BE RECORDED AT THE ROCKINGHAM COUNTY  
 REGISTRY OF DEEDS UPON APPROVAL BY THE DERRY PLANNING  
 BOARD. ALL 8 SHEETS WHICH CONSTITUTE THE APPLICATION  
 APPROVED BY THE DERRY PLANNING BOARD SHALL BE ON FILE AT  
 THE DERRY PLANNING DEPARTMENT.



N:\CARLSON\2021\3316\DWG\d3316s1.dwg

**NOTES:**

- 1) THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING CONDITIONS OF MAP 3 LOT 117-25, LOCATED AT 148 ROCKINGHAM ROAD IN DERRY, NEW HAMPSHIRE.
- 2) THIS PLAN IS BASED ON FIELD & RECORD EVIDENCE LAST OBSERVED IN MARCH OF 2022.
- 3) THIS PARCEL OF LAND DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS INTERPOLATED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR ROCKINGHAM COUNTY, NEW HAMPSHIRE (ALL JURISDICTIONS) #33015C0531E, HAVING AN EFFECTIVE DATE OF MAY 17, 2005.
- 4) THIS PLAN IS INTENDED TO BE AT THE DEPICTED SCALE WHEN PLOTTED ON 22x34 (ANSI D) SIZE PAPER.
- 5) ALL DISTANCES, UNLESS OTHERWISE INDICATED, ARE US SURVEY FEET HORIZONTAL DISTANCES.
- 6) ALL ZONING INFORMATION SHALL BE VERIFIED PRIOR TO ANY BUILDING OR CONSTRUCTION ACTIVITY.

**DATUM:**

HORIZONTAL: NAD83-2011  
VERTICAL: NAVD88 - GEOID18

VERTICAL AND HORIZONTAL DATA SHOWN ARE BASED ON GNSS OBSERVATIONS BY PROMISED LAND SURVEY, LLC IN FEBRUARY OF 2022 USING CARLSON BRX7 GNSS. OBSERVATIONS WERE ADJUSTED USING A LEAST SQUARES ADJUSTMENT UTILIZING CORS STATIONS WES2 (WESTFORD, MA), ZBWI (NASHUA, NH), & MASA (SALISBURY, MA), AND WERE INSTRUMENT (LEICA TS16) VERIFIED AND INCORPORATED INTO THE CLOSED TRAVERSE, WHICH HAD A LINEAR ERROR OF CLOSURE OF 1:72,964.

**PLANS OF REFERENCE:**

- 1) NHDOT PLAN: "T. L. R. PROJECT No. 14174; P-2103; DATED: MARCH, 1951.
- 2) NHDOT PLAN "FEDERAL AID PROJECT NO 198E - ROCKINGHAM ROAD."
- 3) "TAX MAP 3 LOT 117, LAND OF WILLIAM D. & BARBARA W. BLUNT," PREPARED BY: PROGRESSIVE SURVEY, INC. DATED: AUGUST 7, 1994; SEE RCRD PLAN No. D-12748.
- 4) "PLAN OF LAND IN DERRY, NH.," PREPARED FOR: 3A-3B LAWRENCE ROAD CONDOMINIUM; PREPARED BY: SCOTT L. GILES' DATED: APRIL 4, 1986; SEE RCRD PLAN No. B-15205.
- 5) "PLAN OF LAND IN DERRY, NH.," PREPARED FOR: 1A-1B LAWRENCE ROAD CONDOMINIUM; PREPARED BY: SCOTT L. GILES' DATED: APRIL 4, 1986; SEE RCRD PLAN No. B-15206.

**ZONING:**

GC4 (GENERAL COMMERCIAL 4) MINIMUM:  
FRONTAGE: 125'  
WIDTH: 125' AT FRONT 35' SETBACK  
SETBACKS:  
FRONT - 35'  
SIDE - 20'  
REAR - 20'  
WETLANDS > 1 Ac. IN SIZE - 75'  
WETLANDS < 1 Ac. IN SIZE - 30'

**WETLAND NOTE:**

THE WETLANDS WERE DELINEATED BY WEST ENVIRONMENTAL, INC. ON MARCH 30, 2022 ACCORDING TO THE FOLLOWING STANDARDS:  
US ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JANUARY 1987).  
REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION (OCTOBER 2012).  
FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND VERSION 4 NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). U.S. FISH AND WILDLIFE SERVICE, 2013  
CODE OF ADMINISTRATIVE RULES, WETLANDS BOARD, STATE OF NEW HAMPSHIRE (CURRENT).

**LEGEND:**

- BOUND
- BOLLARD
- CATCH BASIN
- DELINEATOR
- ELECTRIC METER
- GUYWIRE
- HYDRANT-FIRE
- IRON PIPE/REBAR
- LIGHT POST
- SHRUB
- SIGN
- TREE - CONIFEROUS
- TREE - DECIDUOUS
- UTILITY POLE
- WETLAND
- CONTOUR MAJOR
- CONTOUR MINOR
- CURBING
- DELIMITED WETLAND
- DRAINAGE LINE
- GRAVEL
- OVERHEAD ELECTRIC
- RETAINING WALL
- TREE LINE
- WETLAND EDGE
- BUILDING
- CONCRETE
- CRUSHED STONE
- LANDSCAPING

TP 1 08/15/2022

- 10YR 3/3 LOAM: DARK BROWN; GRANULAR; LOOSE
- 10YR 4/8 FINE SANDY LOAM; DARK YELLOWISH BROWN; WEAK SUBANGULAR BLOCKY; VERY FRIABLE
- 2.5Y 6/3 LOAMY FINE SAND; LIGHT YELLOWISH BROWN; SUBANGULAR BLOCKY; FRIABLE; 2% DISTINCT REDOXIMORPHIC CONCENTRATIONS, 10YR 6/8; MOST >36"

ESH-WT 36"  
ROOTS 36"  
WATER N/O  
LEDGE N/O



MAP 3 LOT 96-4  
N/F GREENWOOD REALTY TRUST  
HERSEY ROBERT/JENNIFER M TRUST  
175 ROCKINGHAM RD  
DERRY, NH 03038

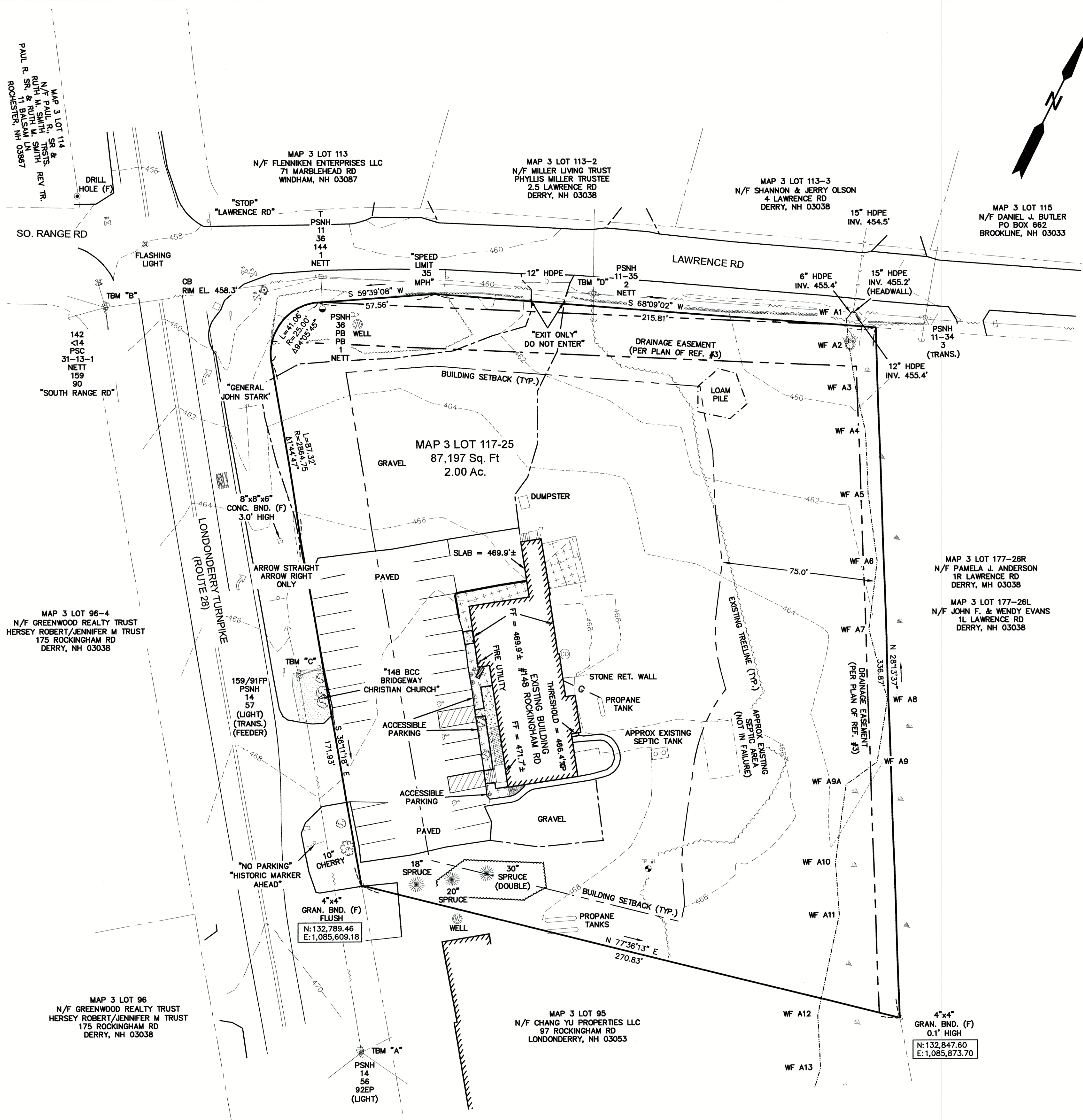
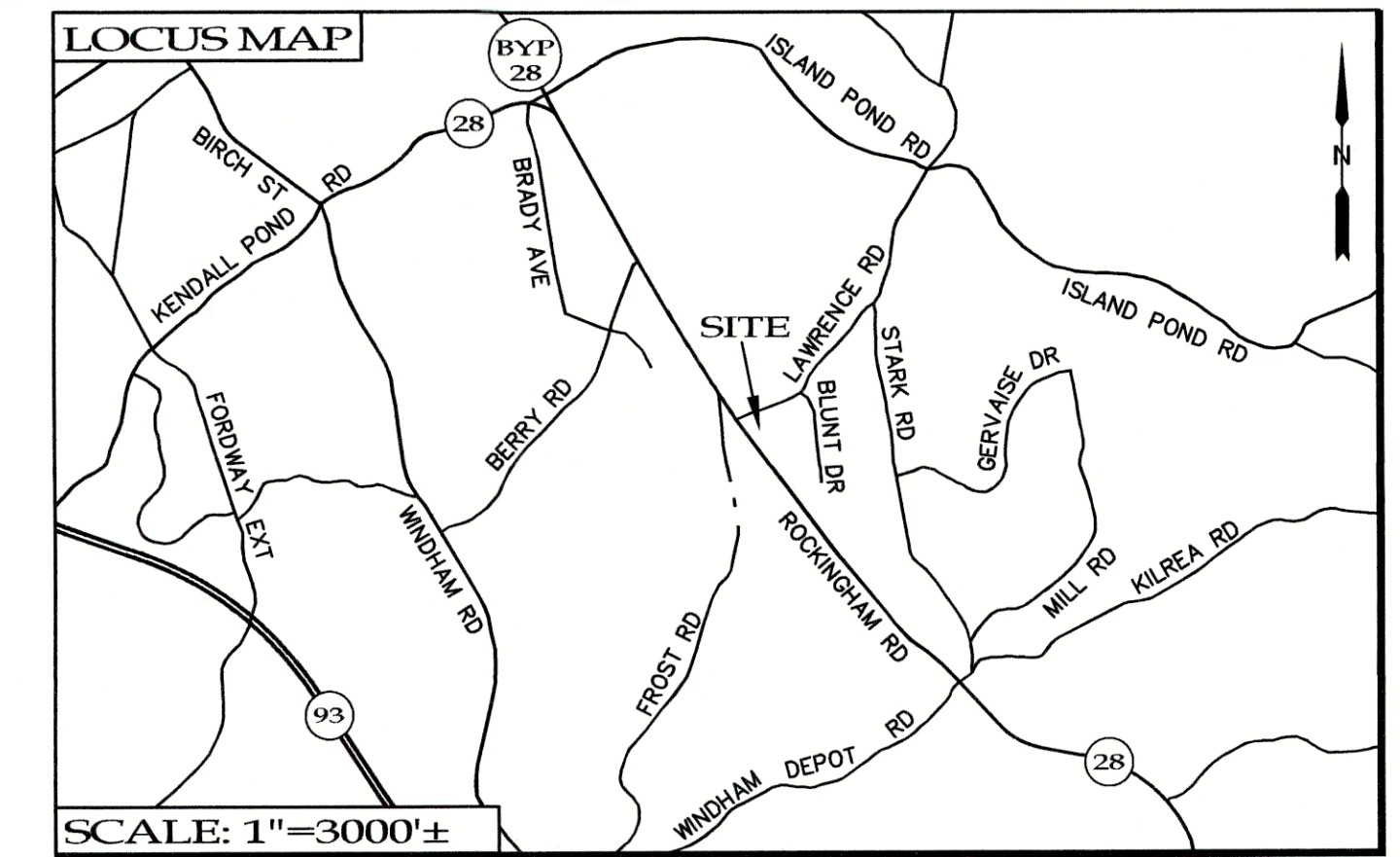
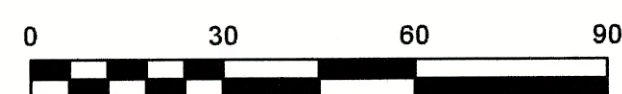
MAP 3 LOT 98  
N/F GREENWOOD REALTY TRUST  
HERSEY ROBERT/JENNIFER M TRUST  
175 ROCKINGHAM RD  
DERRY, NH 03038

MAP 3 LOT 95  
N/F CHANG YU PROPERTIES LLC  
97 ROCKINGHAM RD  
LONDONDERY, NH 03053

4"x4"  
GRAN. BND. (F)  
0.1' HIGH  
N:132,847.60  
E:1,085,873.70

**BENCHMARK INFORMATION**

BENCHMARK	EL.	DESCRIPTION
TBM "A"	471.16'	MAG (F) HORIZONTAL IN UTILITY POLE, 0.6' HIGH
TBM "B"	459.48'	MAG (F) HORIZONTAL IN UTILITY POLE, 0.4' HIGH
TBM "C"	467.57'	MAG (S) HORIZONTAL IN UTILITY POLE, 0.6' HIGH
TBM "D"	461.78'	MAG (S) HORIZONTAL IN UTILITY POLE, 0.9' HIGH



APPROVED BY THE TOWN OF DERRY PLANNING BOARD ON:

CERTIFIED BY: \_\_\_\_\_

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_

SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

**LAND OWNER OF RECORD:**  
BRIDGEWAY CHRISTIAN CHURCH  
148 ROCKINGHAM RD  
DERRY, NH 03038  
ROCKINGHAM COUNTY REGISTRY OF DEEDS BOOK 5900 PAGE 2799.

**EXISTING CONDITIONS PLAN  
"BRIDGEWAY CHRISTIAN CHURCH"  
MAP 3 LOT 117-25  
148 ROCKINGHAM ROAD  
DERRY NEW HAMPSHIRE  
APRIL 13, 2022**

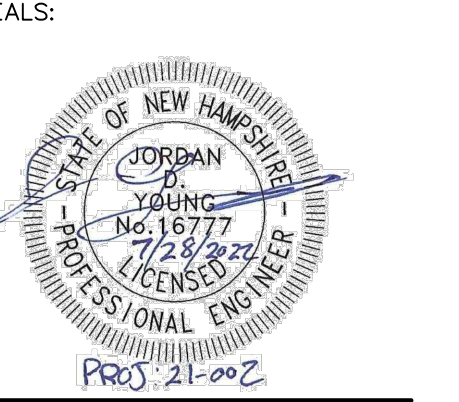
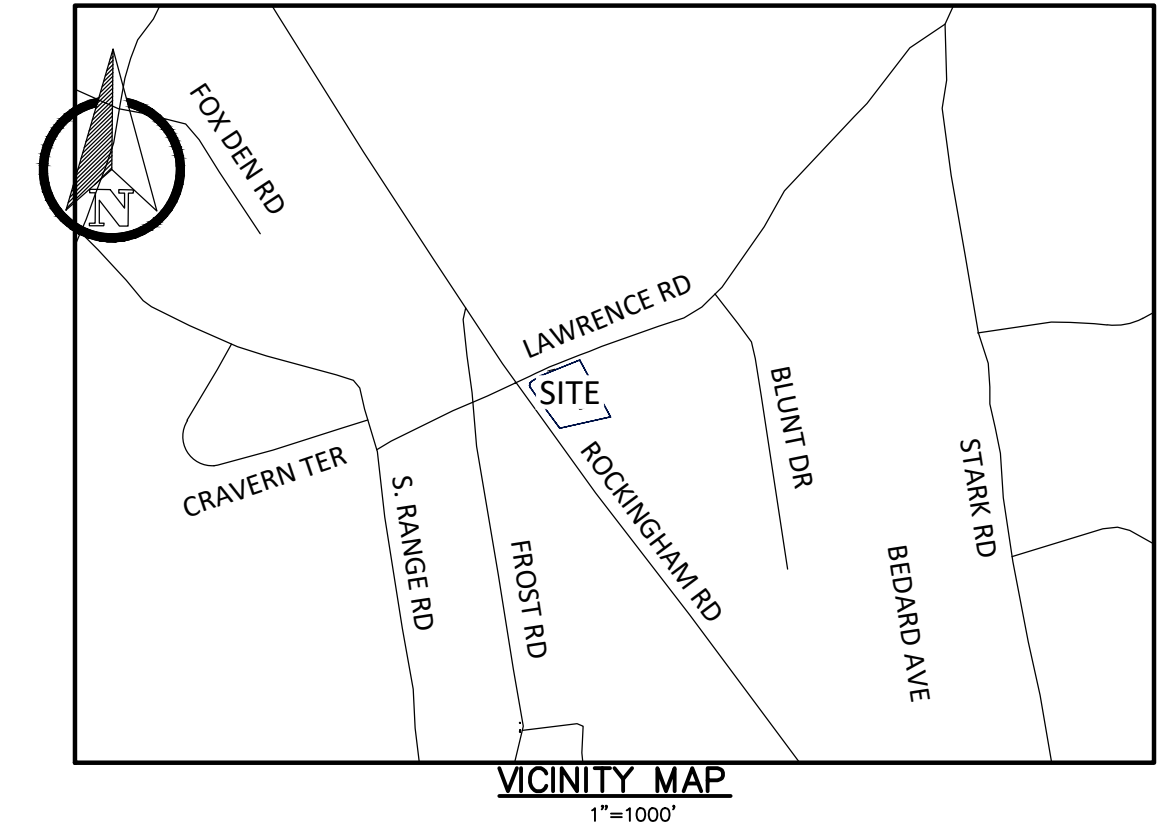
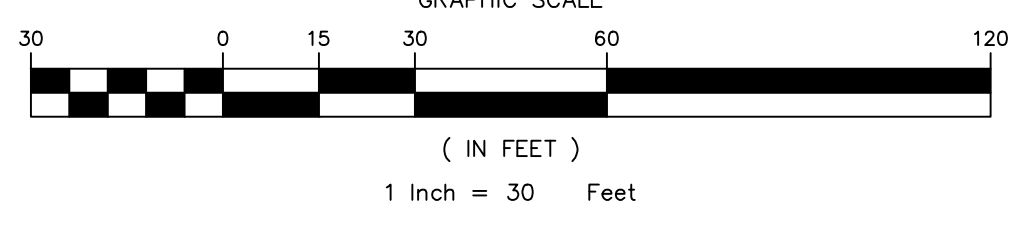
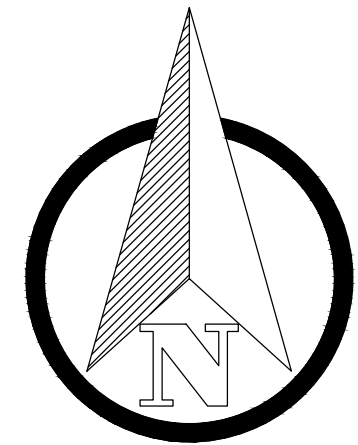
LAND OWNER: BRIDGEWAY CHRISTIAN CHURCH  
148 ROCKINGHAM RD  
DERRY, NH 03038  
(RCRD 5900/2799)

SCALE: 1"=30'  
SHEET 2 OF 8

PREPARED BY:  
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**REVISIONS**

NO.	DATE	DESCRIPTION	BY
2	8/16/2022	VARIOUS	BJW
1	08-24-2022	SECOND-ROUND TRC SUBMITTAL	TAP



APPLICANT/DEVELOPER:  
BRIDGEWAY CHURCH  
ATTN: LENNY SANTOSUOSSO  
OFFICE: 603.401.2882  
EMAIL: LENNY@CD@COMCAST.NET

**BRIDGEWAY CHURCH**  
148 ROCKINGHAM RD DERRY, NH 03038

STATE: NEW HAMPSHIRE  
COUNTY: ROCKINGHAM

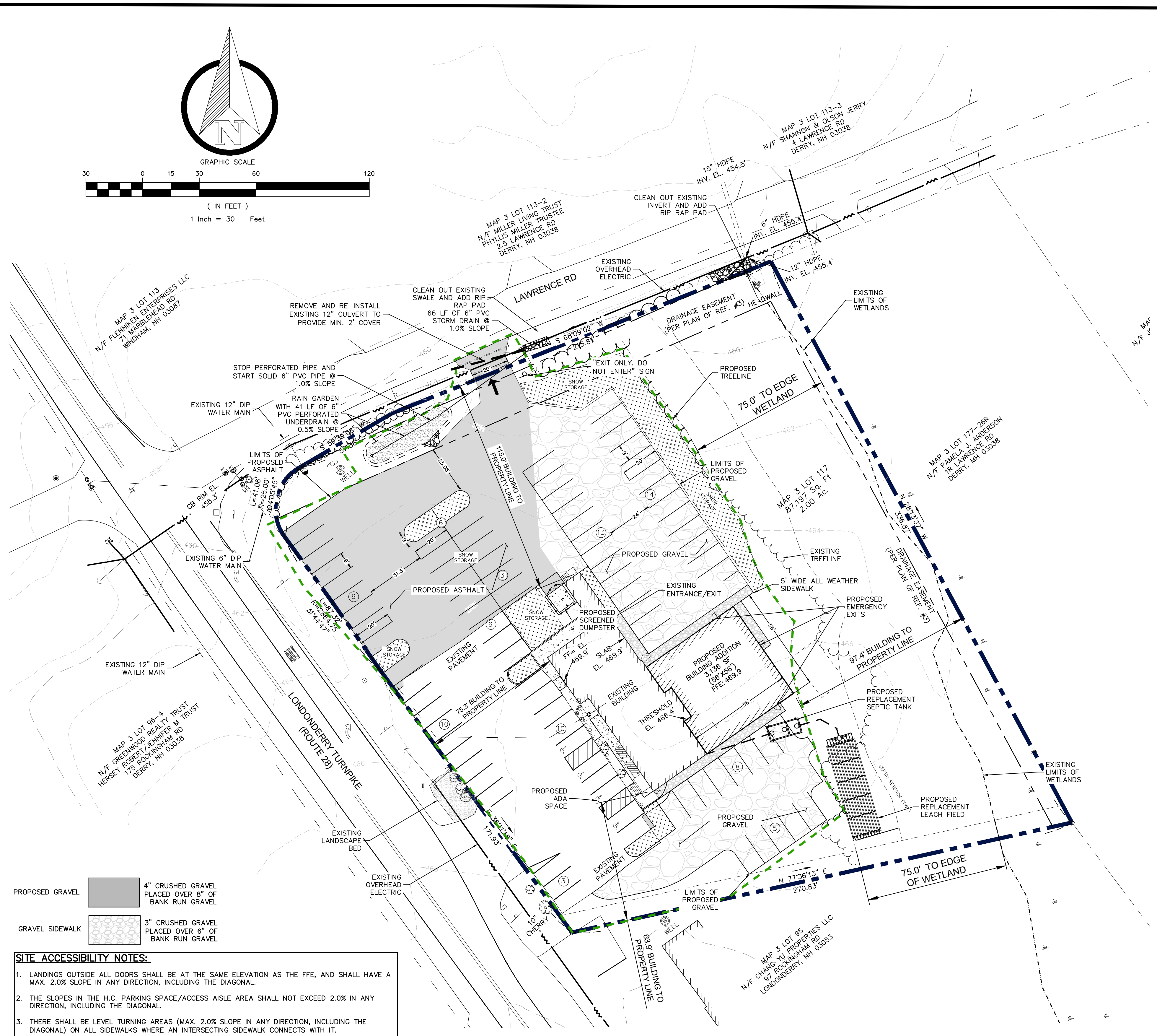
MUNICIPALITY: DERRY

SITE AREA: 2.00± ACRES  
PARCEL ID: 03117-025  
DESIGNED BY: JDY  
DATE: 2022.09.15  
PROJECT: 21-002  
REVISIONS:  
2022.10.10: SPELLING CORRECTIONS



SHEET TITLE:  
**OVERALL SITE LAYOUT AND UTILITY PLAN**

SCALE: 1" = 30'  
SHEET NO.:



PROPOSED GRAVEL	4" CRUSHED GRAVEL PLACED OVER 8" OF BANK RUN GRAVEL
GRAVEL SIDEWALK	3" CRUSHED GRAVEL PLACED OVER 6" OF BANK RUN GRAVEL

- SITE ACCESSIBILITY NOTES:**
- LANDINGS OUTSIDE ALL DOORS SHALL BE AT THE SAME ELEVATION AS THE FFE, AND SHALL HAVE A MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL.
  - THE SLOPES IN THE H.C. PARKING SPACE/ACCESS AISLE AREA SHALL NOT EXCEED 2.0% IN ANY DIRECTION, INCLUDING THE DIAGONAL.
  - THERE SHALL BE LEVEL TURNING AREAS (MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL) ON ALL SIDEWALKS WHERE AN INTERSECTING SIDEWALK CONNECTS WITH IT.
  - THERE SHALL BE NO DESIGNATED PEDESTRIAN ROUTES/SIDEWALKS WITHIN THE SITE, EXCEPT WHERE LABELED AS A RAMP WITH RAILS, WHICH EXCEEDS A 5% SLOPE IN THE DIRECTION OF TRAVEL AND A 2% CROSS-SLOPE.
  - ALL PEDESTRIAN ROUTES >5% (1:20), IF ANY, ARE LABELED AS "RAMPS" SHOWING SLOPES, LEVEL LANDINGS AT THE TOP AND BOTTOM (MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL), DAILINGS/GUARDRAILS, AND SHALL COMPLY WITH NCBC.
  - ALL STAIRS SHALL HAVE SLIGHTLY SLOPED LANDINGS MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL) AT THE TOP AND BOTTOM.
  - ANY STRUCTURE TO BE REMOVED SHALL REQUIRE A DEMOLITION PERMIT FROM BUILDING INSPECTIONS.

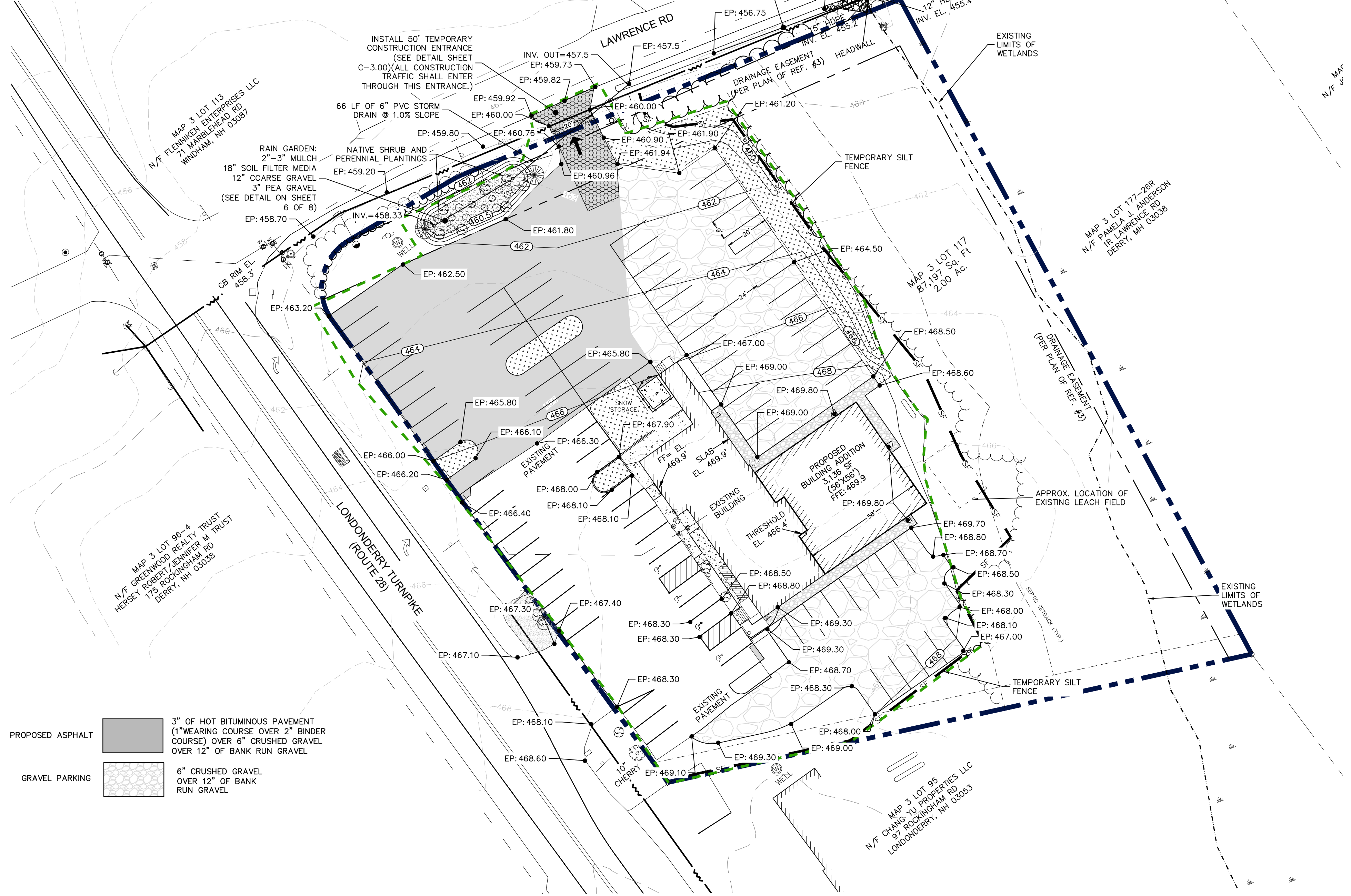
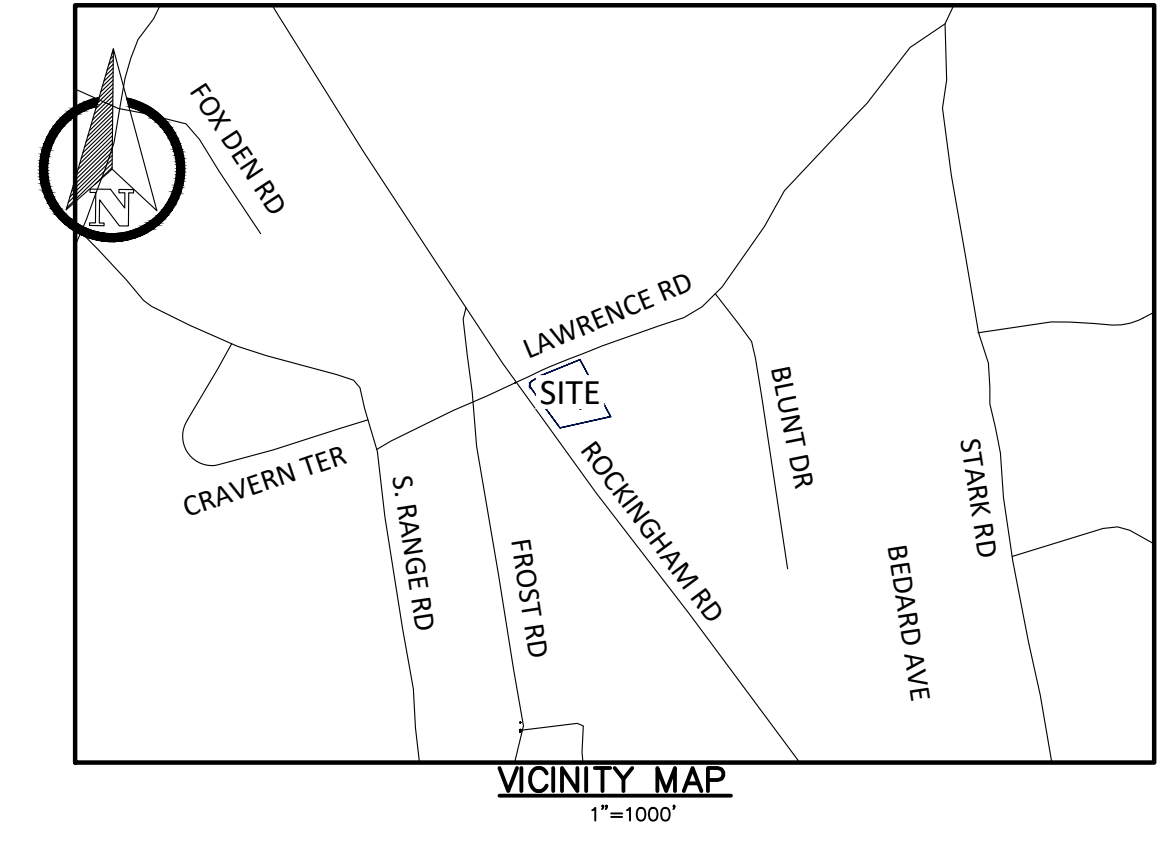
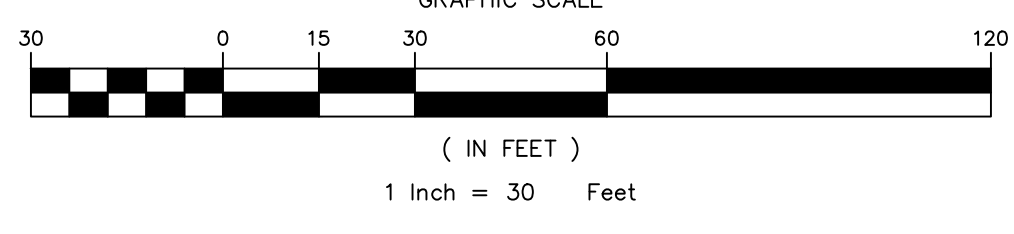
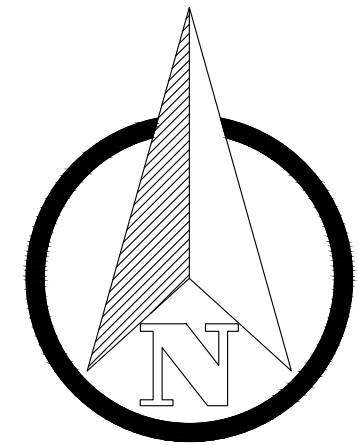
- GENERAL NOTES:**
- THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE A PROPOSED COMMERCIAL DEVELOPMENT IN DERRY, NH.
  - AREA OF TAX MAP 03 LOT 117= 2.00± ACRES.
  - OWNER OF RECORD:  
BRIDGEWAY CHURCH  
148 ROCKINGHAM RD  
DERRY, NH 03038
  - THE WORK PROPOSED IS LOCATED ENTIRELY WITHIN THE GENERAL COMMERCIAL IV ZONING DISTRICT AND IS SUBJECT TO THE FOLLOWING DIMENSIONAL REGULATIONS

**GC-IV ZONING REQUIREMENTS**

DESCRIPTION	REQUIREMENT	EXISTING PARCEL	PROPOSED PARCEL
MIN. LOT AREA	1.00 AC	2.00 AC	2.00 AC
MIN. LOT FRONTAGE	125 LF	574 LF	574 LF
MIN. BUILDABLE AREA***	N/A	0.68 AC	1.12 AC
MIN. FRONT YARD SETBACK	35 FT	91.8	91.8 FT
MIN. SIDE YARD SETBACK	20 FT	63.7	63.7 FT
MIN. REAR YARD SETBACK	20 FT	153.0	97.3 FT

- THE PARCEL WILL BE SERVED BY PUBLIC WATER AND PRIVATE SEPTIC.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF DERRY'S LAND DEVELOPMENT CONTROL REGULATIONS, LATEST EDITION.
- HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAV88
- PARKING CALCULATIONS:  
CHURCHES, THEATERS, AND OTHER PLACES OF ASSEMBLY:  
261 TOTAL PROPOSED SEATS  
1 SPACE PER 3 SEATS  
261 SEATS/3= 87 SPACES REQUIRED  
TOTAL PROVIDED = 87 SPACES INCLUDING 4 HC SPACES
- EXISTING CONDITIONS INFORMATION SHOWN HEREON IS PROVIDED BY PROMISED LAND SURVEY, LLC OF DERRY NH.
- THE TOPOGRAPHIC INFORMATION PROVIDED HEREON IS PROVIDED BY PROMISED LAND SURVEY, LLC OF DERRY NH.
- PROPOSED DEVELOPMENT LAYOUT IS SUBJECT TO CHANGE. FINAL LAYOUT SHALL BE DETERMINED IN COORDINATION WITH DERRY PLANNING BOARD.
- PROPOSED BUILDING ADDITION HEIGHT: 28'-8"
- THE HOURS OF OPERATION OF THE CHURCH WILL BE FROM 9AM TO 12PM ON SUNDAYS. RELIGIOUS GATHERINGS WILL ALSO BE HELD ON WEDNESDAYS (12 PEOPLE)
- A WAIVER IS BEING REQUESTED FROM ARTICLE XI SECTION 170-62 FOR PAVED DRIVE AISLES AND PARKING SURFACES. THE GRAVEL FOR THE PARKING SURFACE AND DRIVE AISLES MEETS THE TOWN OF DERRY REQUIREMENTS FOR THE BUILD UP OF PARKING LOT UP TO THE BITUMINOUS ASPHALT.
- A WAIVER IS BEING REQUESTED FROM XI SECTION 170-63 (A)(6) FOR CURBED, RAISED ISLAND A MINIMUM OF 15' IN WIDTH SHALL BE PROVIDED WHERE PARKING SPACES ADJACENT TO A PUBLIC STREET.
- 5% OF INTERIOR PARKING ARE LANDSCAPED:  
REQUIRED INTERIOR LANDSCAPING OF PROPOSED PARKING AND DRIVE AISLES:  
39,025 SF X 5%= 1,951 SF; PROVIDED= 2,078 SF
- PERCENT IMPERVIOUS AREA VS. GREEN SPACE= 46,114 SF/87,120 SF= 52.93%  
GREEN SPACE= 41,006 SF
- PARKING SPACES SHALL BE PAINTED. GRAVEL SPACES WILL NEED TO BE RE-PAINTED EVERY YEAR OR SOONER IF NEEDED.

- GENERAL CONSTRUCTION NOTES:**
- DIGSAFE SHALL BE CONTACTED 72 HOURS PRIOR TO CONSTRUCTION COMMENCING (1-888-344-7233).
  - EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE IN LOCATION AND POSSIBLY INCOMPLETE. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT SIZE, LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES THAT ARE TO BE ACCESSED OR CROSSED DURING CONSTRUCTION.
  - ALL PRIVATE UTILITIES SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE OWNING UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DIRECTLY WITH EACH OWNING UTILITY COMPANY, UNLESS OTHERWISE APPROVED BY THE TOWN OF DERRY, ALL UTILITIES SHALL BE CONSTRUCTED UNDERGROUND.



PROPOSED ASPHALT	3" OF HOT BITUMINOUS PAVEMENT (1" WEARING COURSE OVER 2" BINDER COURSE) OVER 6" CRUSHED GRAVEL OVER 12" OF BANK RUN GRAVEL
GRAVEL PARKING	6" CRUSHED GRAVEL OVER 12" OF BANK RUN GRAVEL

- SITE ACCESSIBILITY NOTES:**
1. LANDINGS OUTSIDE ALL DOORS SHALL BE AT THE SAME ELEVATION AS THE FFE, AND SHALL HAVE A MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL.
  2. THE SLOPES IN THE H.C. PARKING SPACE/ACCESS AISLE AREA SHALL NOT EXCEED 2.0% IN ANY DIRECTION, INCLUDING THE DIAGONAL.
  3. THERE SHALL BE LEVEL TURNING AREAS (MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL) ON ALL SIDEWALKS WHERE AN INTERSECTING SIDEWALK CONNECTS WITH IT.
  4. THERE SHALL BE NO DESIGNATED PEDESTRIAN ROUTES/SIDEWALKS WITHIN THE SITE, EXCEPT WHERE LABELED AS A RAMP WITH RAILS, WHICH EXCEEDS A 5% SLOPE IN THE DIRECTION OF TRAVEL AND A 2% CROSS-SLOPE.
  5. ALL PEDESTRIAN ROUTES >5% (1:20). IF ANY, ARE LABELED AS "RAMPS" SHOWING SLOPES, LEVEL LANDINGS AT THE TOP AND BOTTOM (MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL) DAILINGS/GUARDRAILS, AND SHALL COMPLY WITH NCBC.
  6. ALL STAIRS SHALL HAVE SLIGHTLY SLOPED LANDINGS MAX. 2.0% SLOPE IN ANY DIRECTION, INCLUDING THE DIAGONAL) AT THE TOP AND BOTTOM.
  7. ANY STRUCTURE TO BE REMOVED SHALL REQUIRE A DEMOLITION PERMIT FROM BUILDING INSPECTIONS.

- GENERAL CONSTRUCTION NOTES:**
1. DIGSAFE SHALL BE CONTACTED 72 HOURS PRIOR TO CONSTRUCTION COMMENCING (1-888-344-7233).
  2. EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE IN LOCATION AND POSSIBLY INCOMPLETE. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT SIZE, LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES THAT ARE TO BE ACCESSED OR CROSSED DURING CONSTRUCTION.
  3. ALL ONSITE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE "ROADWAY SPECIFICATIONS" OF THE TOWN OF DERRY DEPARTMENT OF PUBLIC WORKS AND/OR THE "NH DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITIONS. ALL CONSTRUCTION WITHIN THE ROADWAY RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE "ROADWAY SPECIFICATIONS" OF THE TOWN OF DERRY DEPARTMENT OF PUBLIC WORKS.
  4. ALL PRIVATE UTILITIES SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE OWNING UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DIRECTLY WITH EACH OWNING UTILITY COMPANY, UNLESS OTHERWISE APPROVED BY THE TOWN OF DERRY. ALL UTILITIES SHALL BE CONSTRUCTED UNDERGROUND.
  5. ALL TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION, AND UNTIL THE SITE IS STABILIZED.
  6. CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION FROM THE PAVEMENT STRUCTURAL SECTION ON LAWRENCE RD TO THE PROPOSED PAVEMENT SECTION ONSITE. PROVIDE A 10' TAPER TO TRANSITION FROM PROPOSED PAVEMENT SECTION THAT WILL MATCH INTO EXISTING SECTION ON ROADWAY IN ORDER TO AVOID AN ABRUPT CHANGE IN SECTION.
  7. THE TOWN OF DERRY, NH DEPARTMENT OF PUBLIC WORK MUST BE GIVEN SUFFICIENT NOTICE (AT LEAST 14 DAYS) OF ANY UTILITY TRENCH EXCAVATION OR ABOVE GROUNDWORK WITHIN THE TOWN OF DERRY, NH RIGHT-OF-WAY OR ON TOWN OF DERRY PROPERTY. A PRE-CONSTRUCTION MEETING MAY BE NECESSARY TO LOCATE EXISTING TOWN UTILITIES AND DISCUSS ANY POTENTIAL PROBLEMS. DIG SHALL BE NOTIFIED TO LOCATE ANY OTHER EXISTING PUBLIC OR PRIVATE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK DURING THE EXCAVATION, MAINTENANCE AND REPAIR OF UTILITY TRENCHES AND/OR ANY ABOVE GROUNDWORK. POLICE DETAILS MAY BE NECESSARY FOR WORK ALONG SELECTED ROADWAYS.
  8. CONTRACTOR IS RESPONSIBLE FOR TESTING SOIL UNDER PROPOSED BUILDING ADDITION BEFORE CONSTRUCTION BEGINS.

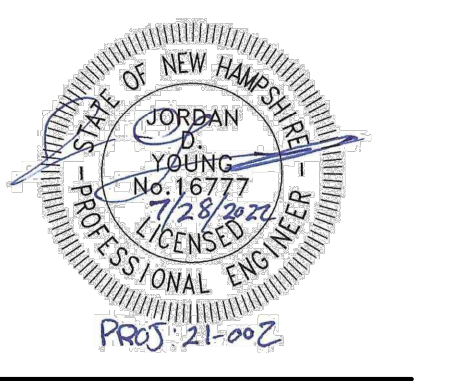
**LEGEND\***

\*ALL ITEMS IN LEGEND ARE PROPOSED UNLESS OTHERWISE NOTED

	SETBACK LINE
	PUBLIC UTILITY EASEMENT
	PROPERTY BOUNDARY
	EXISTING WATER MAIN
	ABUTTER LINE
	EDGE OF WETLAND
	EXISTING CONTOUR-MAJOR
	EXISTING CONTOUR-MINOR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	TEMPORARY SILT FENCE

**ATLANTIC**  
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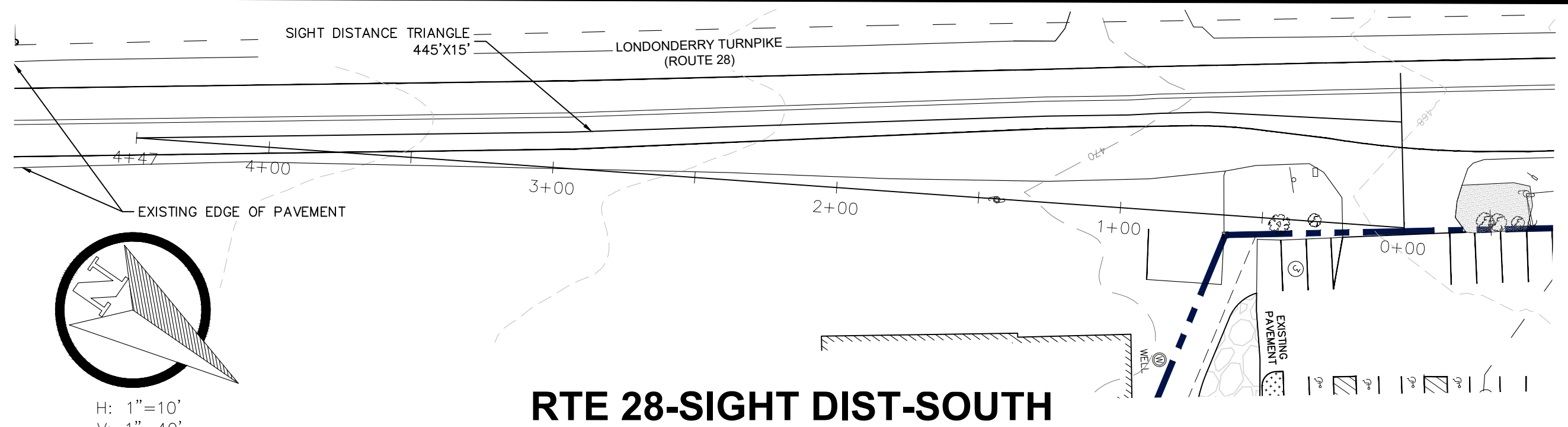
STATE: NEW HAMPSHIRE  
COUNTY: ROCKINGHAM

SITE AREA: 2.00± ACRES  
PARCEL ID: 03117-025  
DESIGNED BY: JDY  
DATE: 2022.08.24  
PROJECT: 21-002  
REVISIONS:

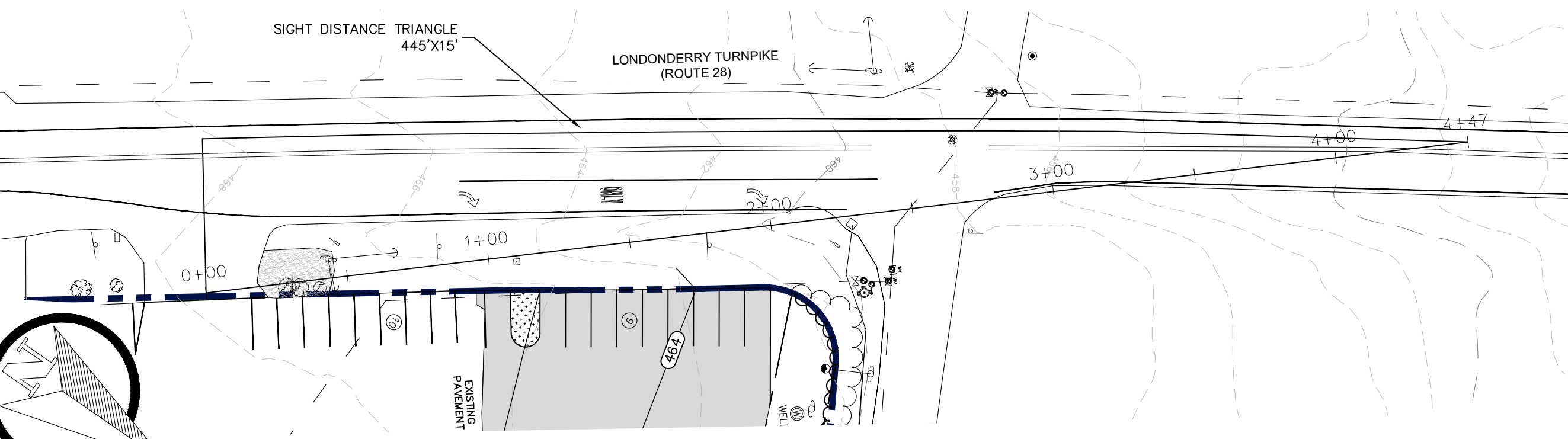
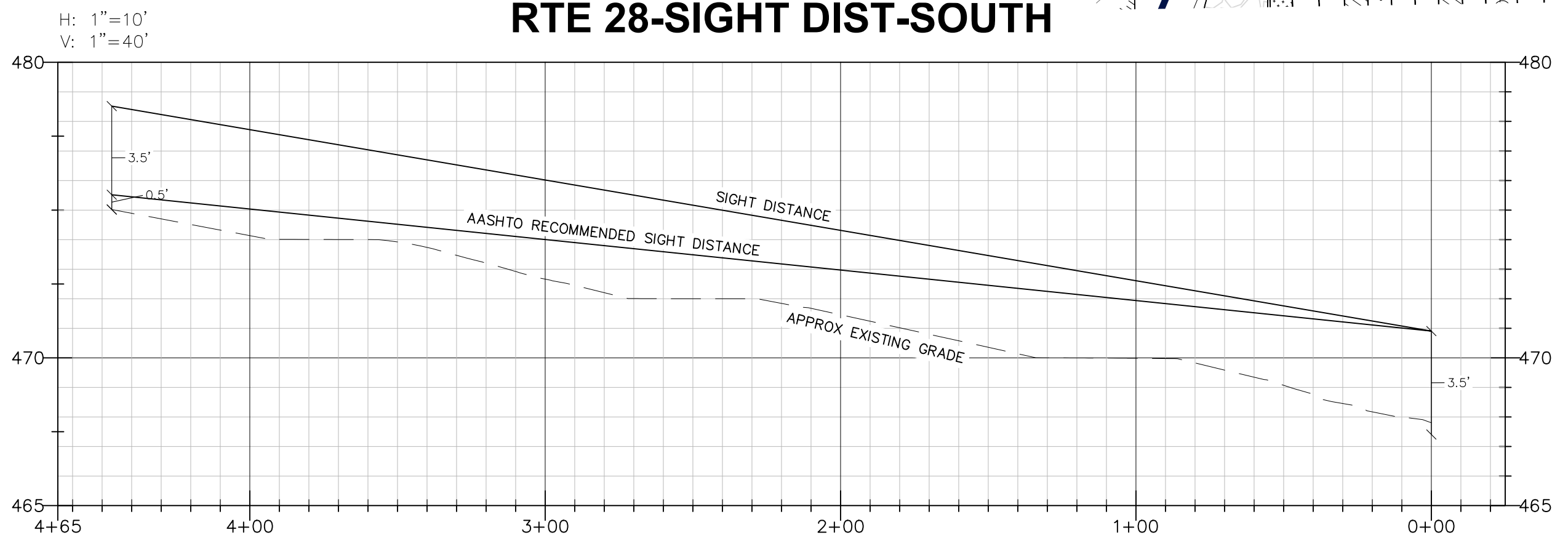


SHEET TITLE:  
**OVERALL  
GRADING AND  
EROSION  
CONTROL PLAN**

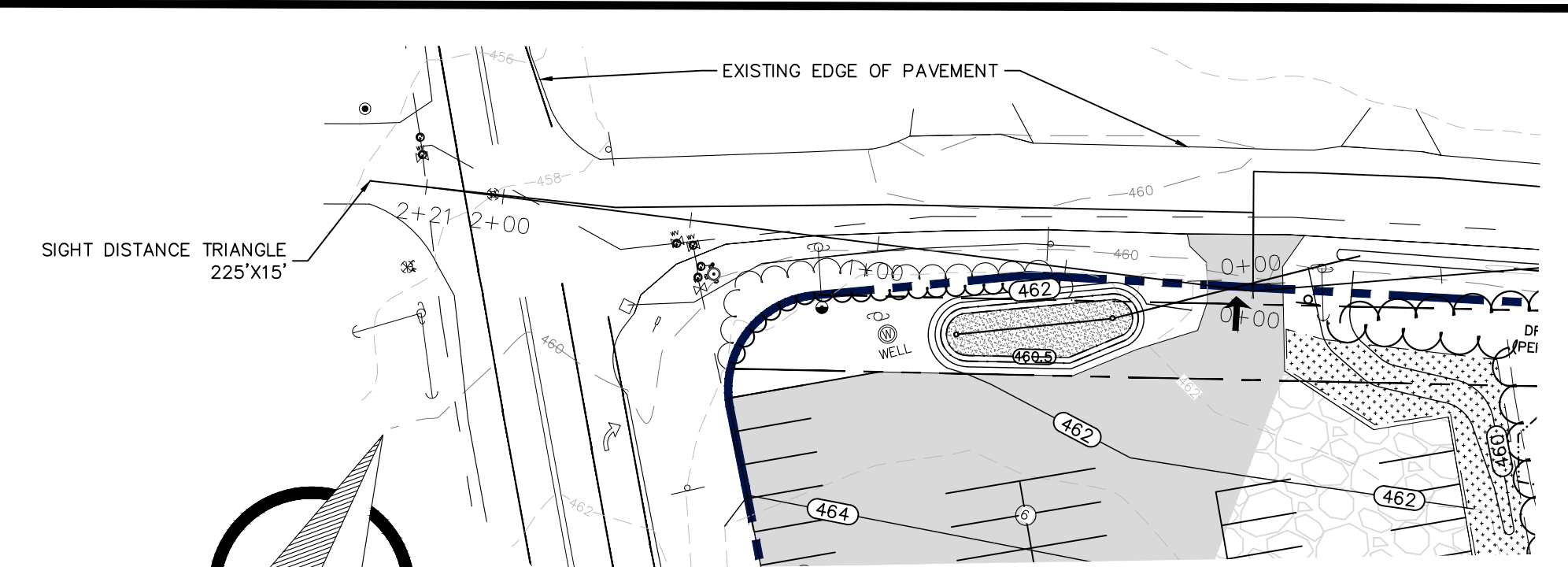
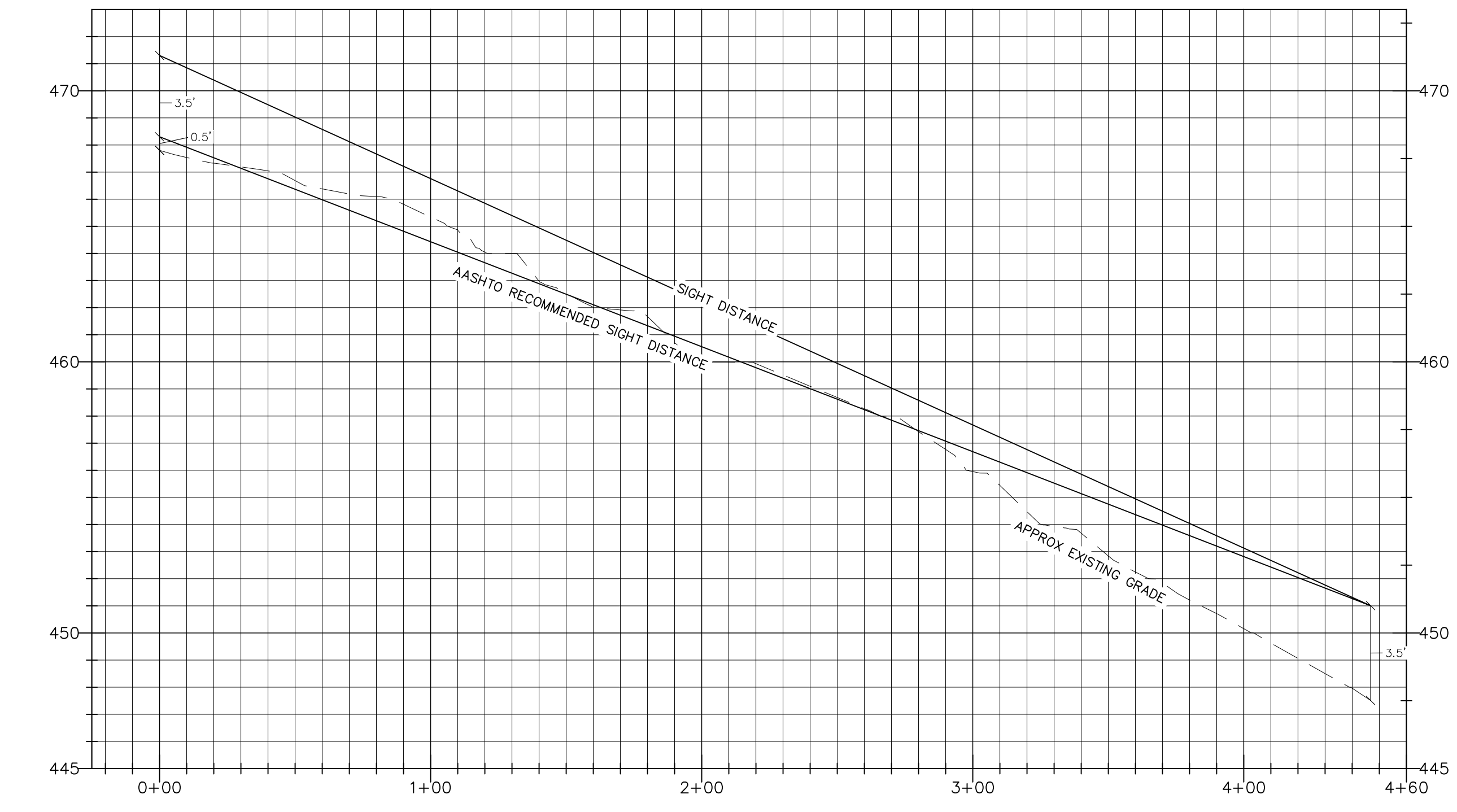
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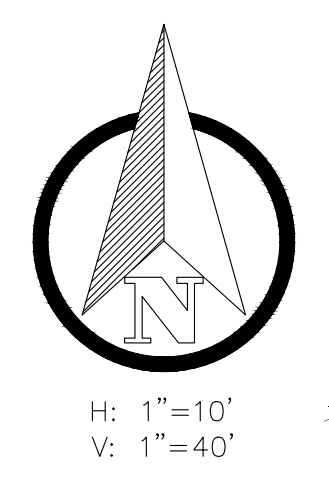
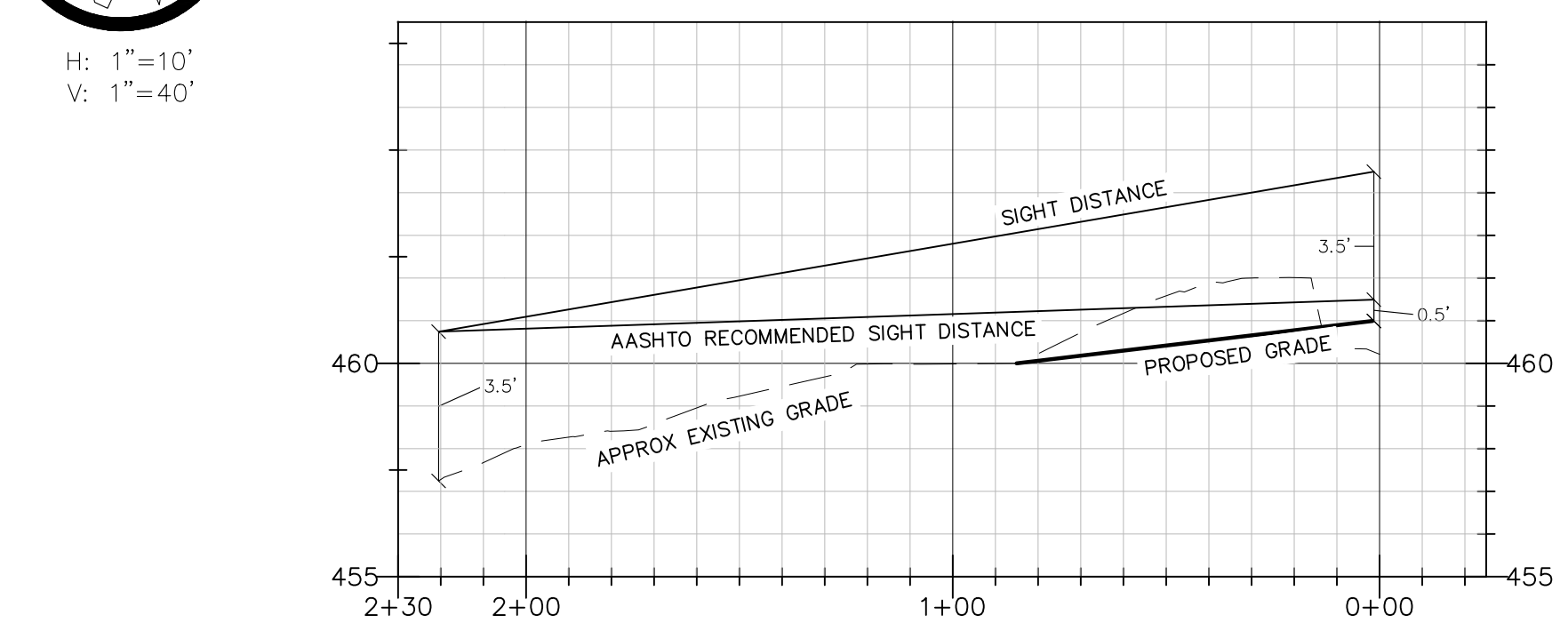
**RTE 28-SIGHT DIST-SOUTH**



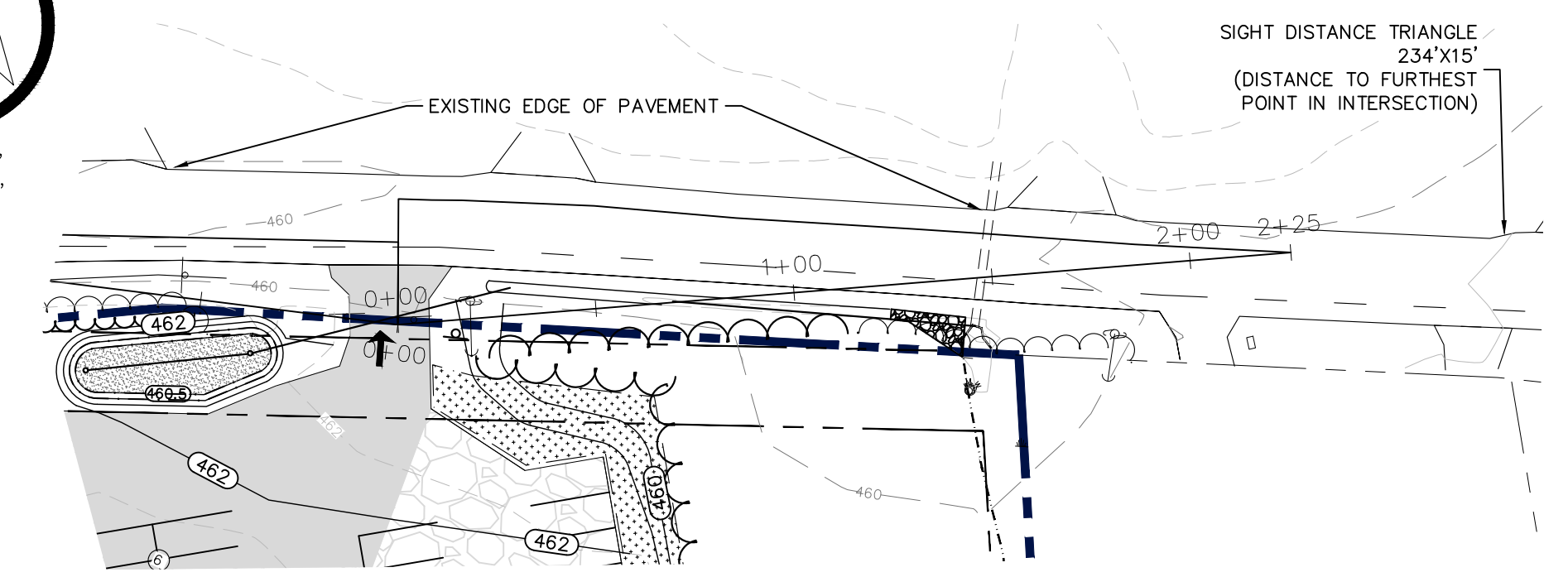
**ROUTE 28- NORTH  
SIGHT DISTANCE PROFILE**



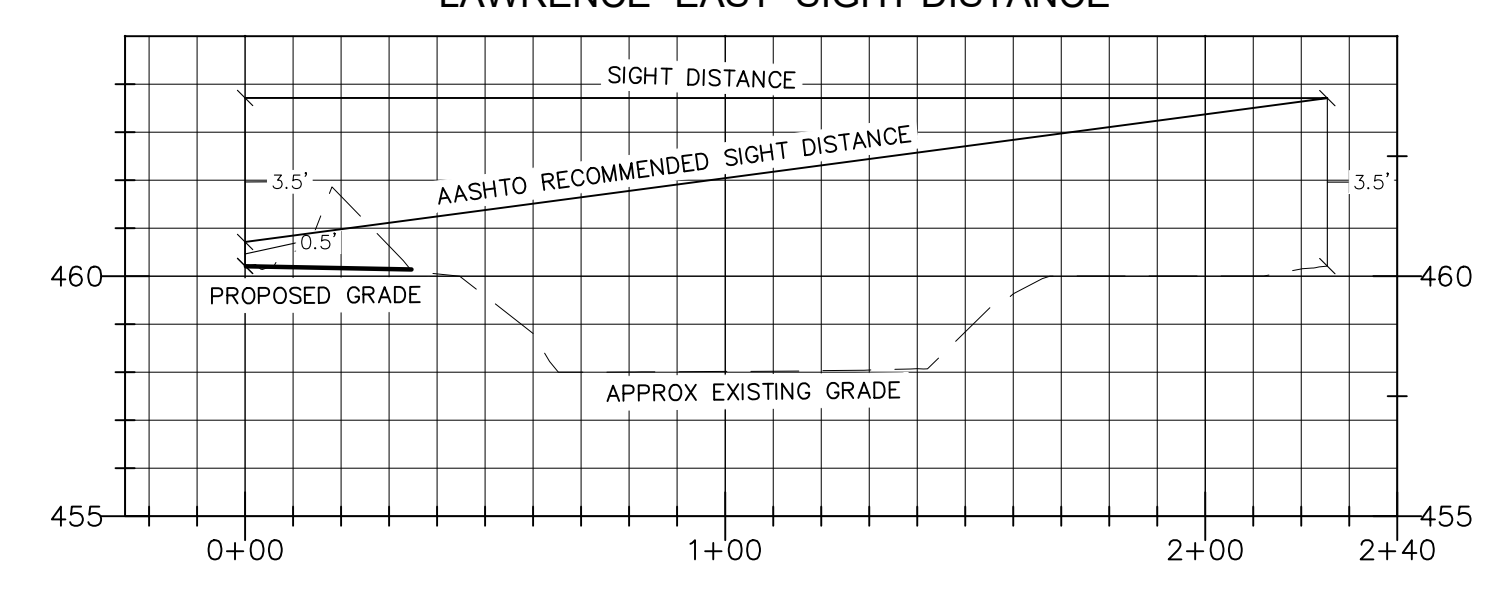
**LAWRENCE-WEST-SIGHT DISTANCE**



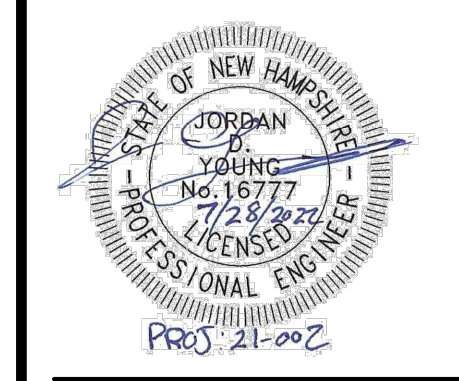
H: 1"=10'  
V: 1"=40'



**LAWRENCE- EAST- SIGHT DISTANCE**



SEALS:



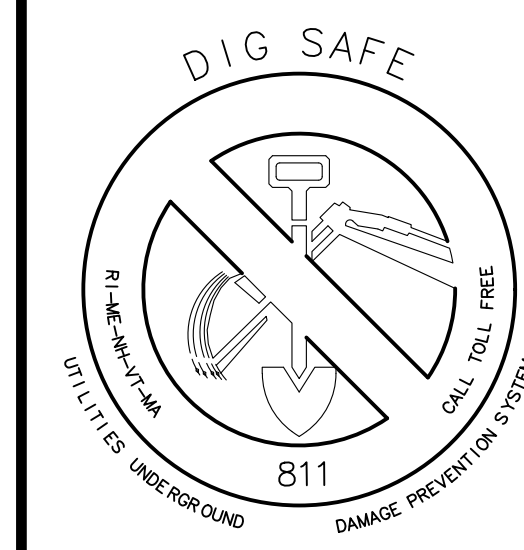
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SHEET TITLE:  
**SIGHT DISTANCE  
PROFILES**

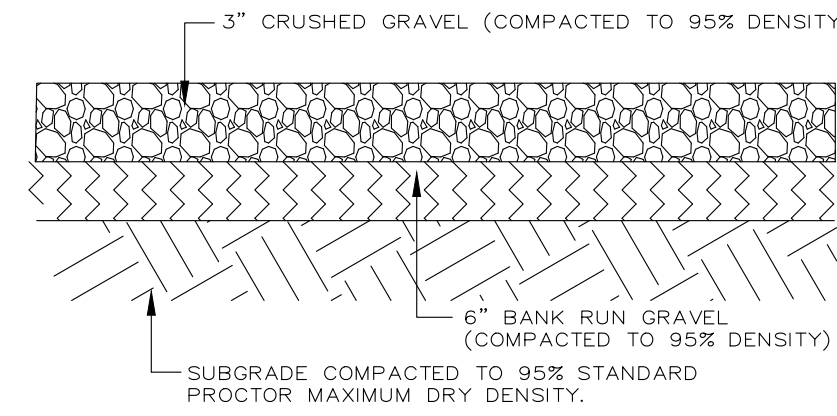
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**CONSTRUCTION SPECIFICATIONS:**

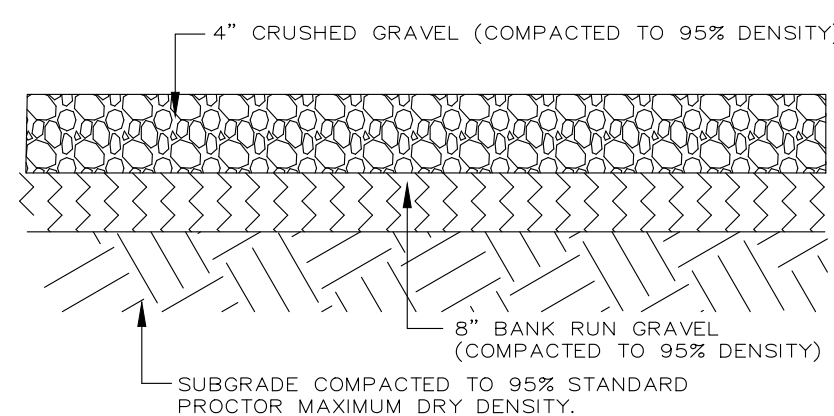
- STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED EXIT SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- THE THICKNESS OF THE STONE FOR THE STABILIZED EXIT SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE EXIT SHALL NOT BE LESS THAN THE FULL WIDTH OF THE EXIT WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION EXIT SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A BERM WITH 3:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
- WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO EXIT ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

**MAINTENANCE**

- MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOP DRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
- IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

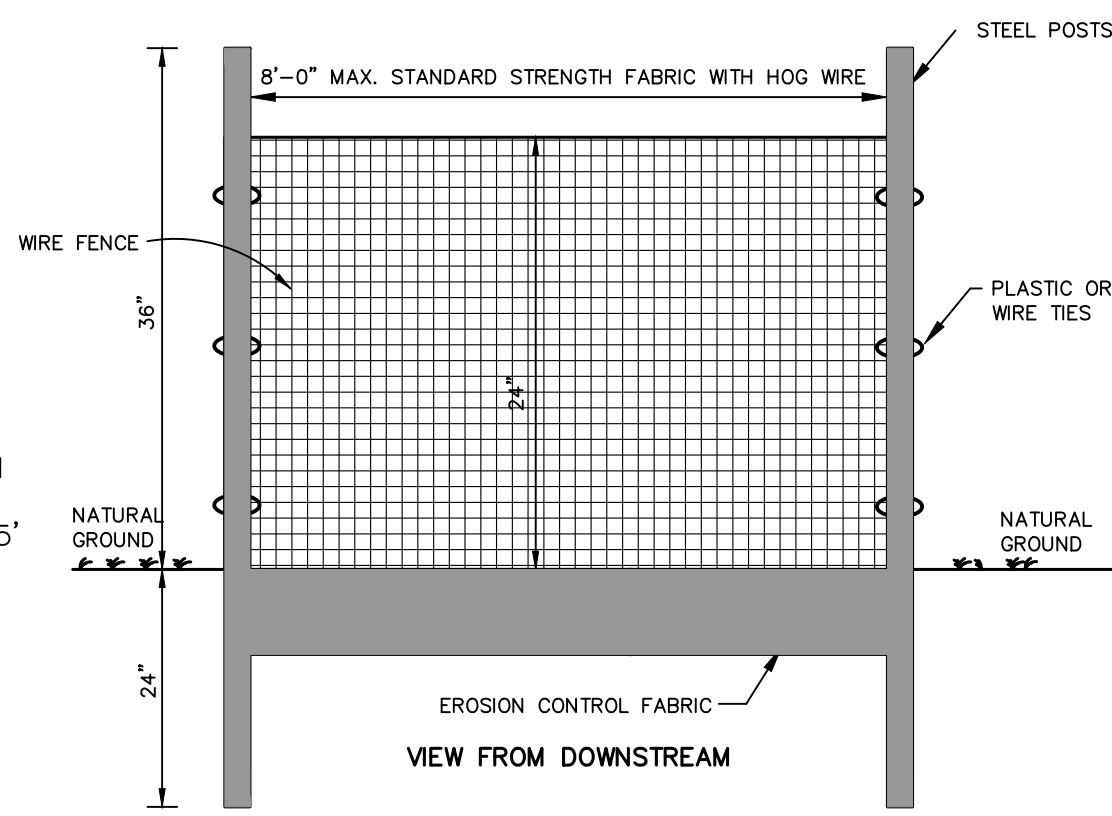


TYPICAL GRAVEL SIDEWALK SECTION DETAIL

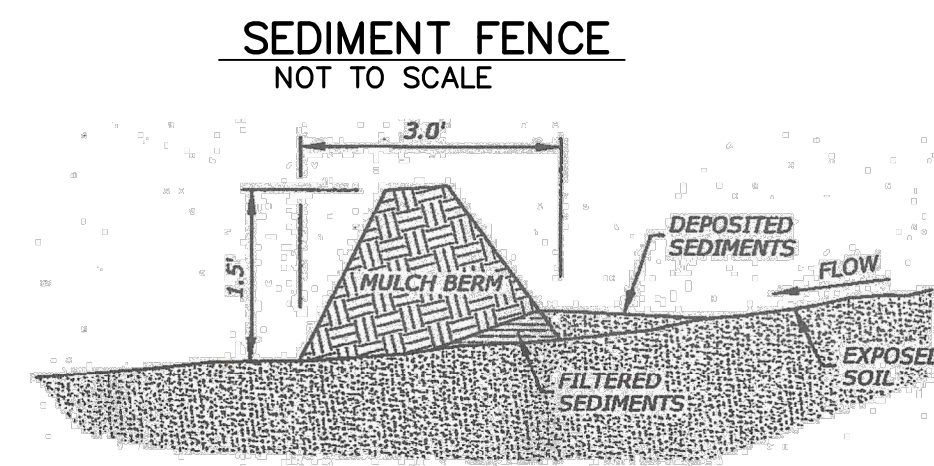


TYPICAL GRAVEL SECTION DETAIL

NOTES:  
CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION FROM THE EXISTING PAVEMENT OR GRAVEL TO THE PROPOSED GRAVEL SECTION ON SITE. PROVIDE A 25' TAPER TO TRANSITION FROM EXISTING SECTION TO AVOID AN ABRUPT CHANGE IN SECTION.



NOTES:  
MAXIMUM SEPARATION BETWEEN POSTS USING HOG WIRE WITH APPROVED EROSION CONTROL FABRICS SHALL BE 8'-0"  
POST: METAL T-POST 5'-0" OR 6'-0" IN HEIGHT DEPENDING ON FILL SLOPE.  
FABRIC: MINIMUM 3'-0" IN WIDTH (MUST MEET ENGINEER'S SPECIFICATIONS FOR EROSION CONTROL).



MULCH BERM CROSS SECTION DETAIL NOT TO SCALE

**MULCH BERM (PERIMETER CONTROL):**

**DESCRIPTION & PURPOSE:**  
A MULCH BERM, OFTEN REFERRED TO AS A FILTER BERM OR AN EROSION CONTROL MIX BERM, IS A COMPOSITE OF PRIMARILY ORGANIC MATERIAL THAT CAN BE MANUFACTURED EITHER ON OR OFF THE PROJECT SITE. A MULCH BERM MAY CONSIST OF SHREDDED BARK, STUMP GRINDINGS, COMPOSITE BAR, OR ACCEPTABLE MANUFACTURED PRODUCTS.  
A MULCH BERM IS EFFECTIVE AS A SEDIMENT BARRIER INSTALLED ACROSS OR AT THE TOE OF A SLOPE TO INTERCEPT AND RETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED OR UNPROTECTED AREAS.

**COMPOSITION:**

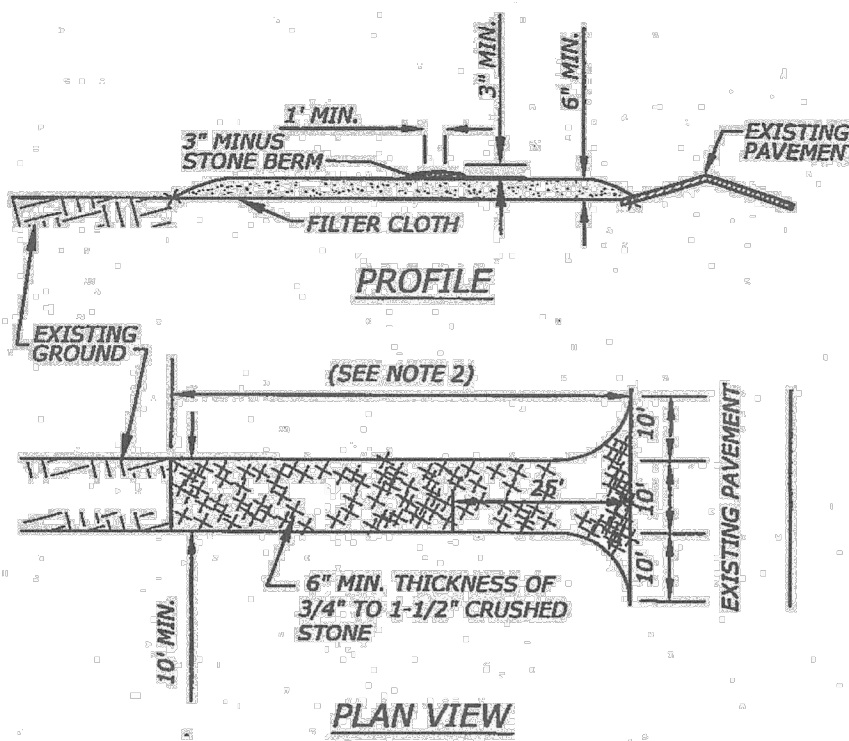
- THE MULCH (OR EROSION CONTROL MIX) SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. IT MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS.
- THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100%, DRY WEIGHT BASIS.
- PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MINIMUM OF 70% MAXIMUM BY 85%, PASSING A 0.75"
- THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
- LARGE PORTIONS OF SILT, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
- SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM.
- THE PH SHOULD BETWEEN 5.0 AND 8.0.

**INSTALLATION:**

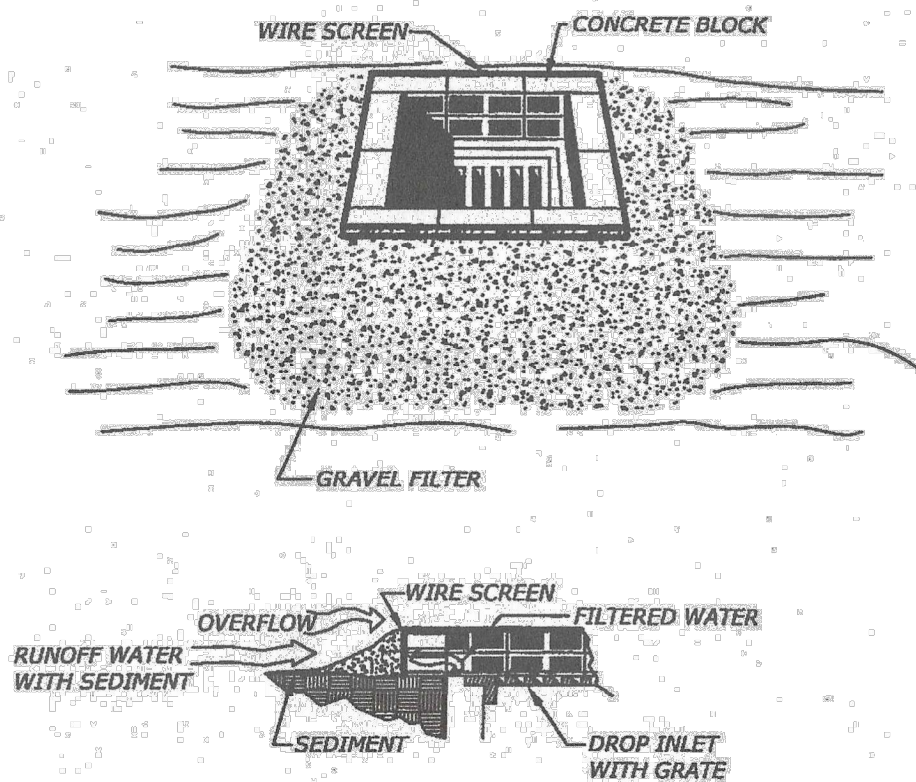
- THE BERM MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BERM.
- BERM MAY BE FORMED WITH A BARK BLOWER OR WITH OTHER EQUIPMENT. BERM SHALL BE A MINIMUM OF 3'-FT WIDE AT THE BASE AND SHALL BE AT LEAST 18" IN HEIGHT.
- BERM MAY BE PLACED DIRECTLY ON GROUND, NO TRENCHING OR STAKING IS REQUIRED.

**INSPECTION AND MAINTENANCE**

- MULCH BERMS SHALL BE INSPECTED WEEKLY AND/OR AFTER EACH SIGNIFICANT RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EACH STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE HALF THE HEIGHT OF THE BERM.
- THE BERM SHALL BE RESHAPED AS NECESSARY.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BERM IS REMOVED SHOULD BE GRADED TO CONFORM TO THE EXISTING TOPOGRAPHY AND RE-SEEDED.



TEMP CONSTRUCTION ENTRANCE/EXIT NOT TO SCALE



**NOTES:**

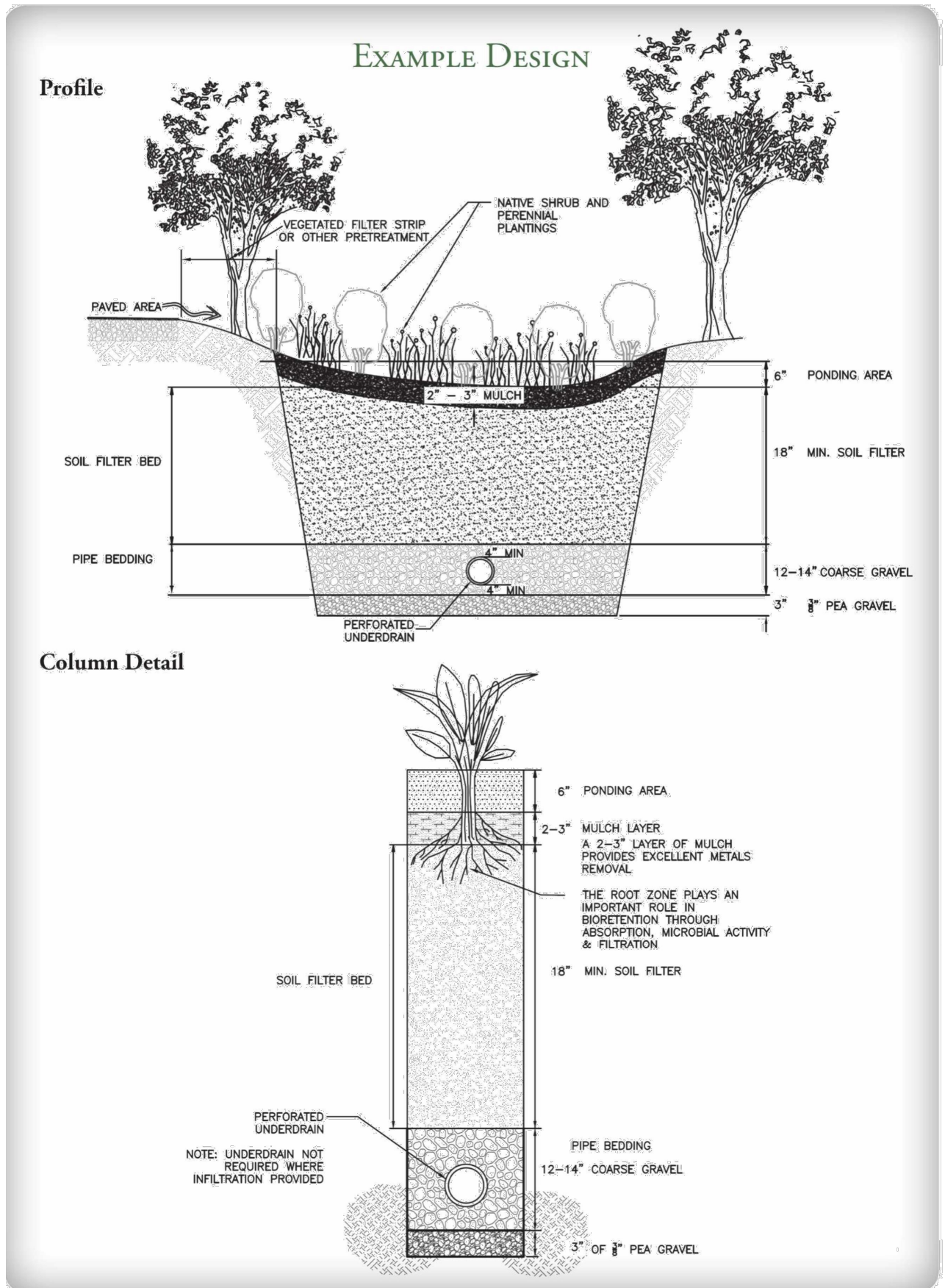
- CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12-INCHES HIGH AND A MAXIMUM OF 24 INCHES HIGH.
- HARDWARE CLOTH OR WIRE MESH SHOULD BE PLACED OVER OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12-INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
- SEWER STONE OR OTHER CLEAN COARSE AGGREGATE SHOULD BE PLACED AGAINST THE BLOCK TO THE TOP OF THE BARRIER.

BLOCK & GRAVEL DROP INLET SEDIMENT INLET FILTER NOT TO SCALE

**RAIN GARDEN SPECIFICATIONS:**

- DO NOT PLACE RAIN GARDEN INTO SERVICE UNTIL ALL VEGETATION HAS BEEN PLANTED AND ITS CONTRIBUTING AREA HAS BEEN STABILIZED.
- SYSTEM SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES IN A 24 HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS WARRANTED BY SUCH INSPECTION. TRASH AND DEBRIS SHALL BE REMOVED AT EACH INSPECTION
- AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAWDOWN TIME. IF BIORETENTION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION OR INFILTRATION FUNCTION (AS APPLICABLE), INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.
- VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.

Table 4-4. Bioretention Filter Media			
Component Material	Percent of Mixture by Volume	Gradation of Material	
		Sieve No.	Percent by Weight Passing Standard Sieve
<b>Filter Media Option A</b>			
ASTM C-33 concrete sand	50 to 55		
Loamy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
<b>Filter Media Option B</b>			
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
	70 to 80	10	85 to 100
		20	70 to 100
		60	15 to 40
Loamy coarse sand		200	8 to 15



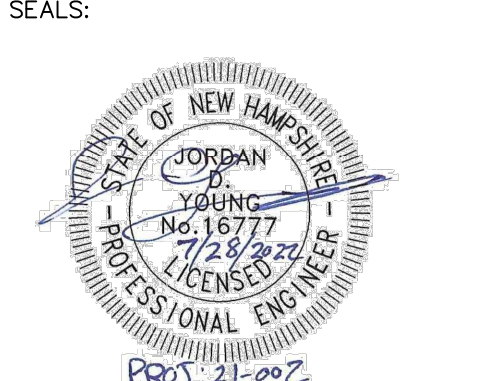
RAIN GARDEN DETAIL NOT TO SCALE

**EROSION CONTROL NOTES:**

- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- ALL PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS.
- ALL AREAS OF UNSTABILIZED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICAL BUT NO LATER THAN 45 DAYS OF INITIAL DISTURBANCE.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN THE FIELD CONDITION, OR FIELD OPERATION OF OF THE INDIVIDUAL SITE CONTRACTOR MAY WARRANT.
- ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5-INCH OR GREATER RAINFALL WITHIN A 24 HOUR PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATIONS MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE LOAMED AND SEEDED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- ALL DISTURBED AREAS DESIGNATED TO BE TURF, SHALL RECEIVE A MINIMUM APPLICATION OF 4-INCHES OF LOAM (COMPACTED THICKNESS), PRIOR TO FINAL SEEDING AND MULCHING.
- IN THE EVENT THAT DURING CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR SUITABLE METHODS OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN SURFACES.
- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE, THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.
- DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD.
- IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT IN INSTALLING SUPPLEMENTARY EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT.
- AREAS HAVING FINISH GRADE SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL MATS WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED. EROSION CONTROL MATS SHALL BE INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE."
- IN ORDER TO PROTECT WETLAND AREAS FROM SILTATION DURING CONSTRUCTION OF HOMES ON INDIVIDUAL LOTS, SILTATION FENCE SHALL BE INSTALLED UP GRADIENT OF DESIGNATED WETLANDS WHERE EXCAVATION IS PROPOSED TO OCCUR WITHIN 30- FEET OF SAID WETLANDS.
- ALL CONSTRUCTION WITHIN 100 FEET OF ANY WETLAND SHALL BE UNDERTAKEN WITH SPECIAL CARE TO AVOID EROSION AND SILTATION INTO THE WETLANDS.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURED:
  - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED,OR
  - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

**CONSTRUCTION SEQUENCE:**

- CONTRACTOR TO NOTIFY DIG-SAFE 12-HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CUT AND CLEAR TREES AND BRUSH ONLY WITHIN DESIGNATED LIMITS OF CLEARING AS NECESSARY TO FACILITATE PROPOSED CONSTRUCTION. ALL TREES, BRANCHES AND OTHER VEGETATIVE MATERIALS SHALL BE PROPERLY DISPOSED OFF SITE BY THE CONTRACTOR.
- PRIOR TO COMMENCEMENT OF ANY GRUBBING OR EARTH-MOVING OPERATIONS, ALL SPECIFIED PERIMETER CONTROLS AND STABILIZED CONSTRUCTION EXIT SHALL BE IN PLACE AS SHOWN ON THE PROJECT PLANS.
- COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND SIMILAR ORGANIC DEBRIS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. NATIVE ORGANIC MATERIALS SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED WITHIN AREAS OUT OF THE WAY OF OTHER CONSTRUCTIONS ACTIVITIES AND DRAINAGE FLOW. STOCKPILES SHALL BE TEMPORARILY SEEDED WITH WINTER RYE AND BE SURROUNDED WITH HAY BALES AND/OR FABRIC SILTATION FENCE IN ORDER TO PREVENT LOSS DUE TO EROSION.
- PRIOR TO ROUGH GRADING ANY PORTION OF THE SITE, THE PERMANENT RETENTION BASINS AND DRAINAGE SWALES SHALL BE INSTALLED FOR ANY PORTIONS OF THE SITE THAT WILL DIRECT RUNOFF TO THE BASINS OR SWALES.
- BEGIN EARTHMOVING OPERATIONS: PERMANENT DOWNSLOPE WORK SHALL BE PROTECTED FROM UPGRADIENT STORMWATER FLOW BY THE CONSTRUCTION OF TEMPORARY EARTHEN DIKES OR EXCAVATED SWALES.
- COMMENCE CONSTRUCTION OF ROADWAYS. PERFORM EXCAVATION ACTIVITIES REQUIRED TO ACHIEVE SUBGRADE ELEVATION. SLOPES AND EMBANKMENTS SHALL BE STABILIZED BY TRACKING AND TEMPORARY SEEDING WITH WINTER RYE PRIOR TO TURF ESTABLISHMENT.
- COMPLETE CONSTRUCTION OF PARKING SURFACE EMBANKMENTS BY ADDING APPROPRIATE BASE MATERIALS GRADED TO PROPER ELEVATION. COMPLETE EXCAVATION /STABILIZATION GRADING ACTIVITIES. WHEN COMPLETE, IMMEDIATELY BEGIN TOPSOILING PROPOSED TURF AREAS USING STOCKPILED LOAM SUPPLEMENTED WITH BORROW LOAM, IF NECESSARY TO LEAVE A THICKNESS OF 4-INCHES OF FRABLE LOAM.
- APPLY TOPSOIL TO ROADWAY SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION. TOPSOIL USED MAY BE NATIVE ORGANIC MATERIAL SCREENED SO AS TO BE FREE OF ROOTS, BRANCHES, STONES, AND OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE APPLIED SO AS TO PROVIDE A MINIMUM OF A 4-INCH COMPACTED THICKNESS.
- FINE GRADE ALL FUTURE TURF AREAS AND HYDROSEED WITH THE SPECIFIED SEED MIXTURE IMMEDIATELY AFTER FINE GRADING IS COMPLETED. PERFORM FINE GRADING OF ROADWAY BASE MATERIALS. INSTALL THE BINDER COURSE OF GRAVEL OVER ALL DESIGNATED AREAS.
- INSTALL THE SPECIFIED GRAVEL BUILD UP. COMPLETE INSTALLATION OF LANDSCAPING, SIGNAGE AND OTHER SITE AMENITIES.
- CONTINUE TO MONITOR AND RECTIFY MINOR SITE AND SLOPE EROSION UNTIL ENTIRE SITE APPEARS TO BE COMPLETELY STABILIZED AND VEGETED WITH A HEALTHY STAND OF TURF OR GROUND COVER. MAINTAIN SPECIFIED SILTATION/EROSION CONTROL MEASURES THROUGH ONE WINTER.
- AFTER STABILIZATION REMOVE AND SUITABLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. MONITOR CONSTRUCTION ACTIVITIES ON INDIVIDUAL LOTS TO INSURE CONSTRUCTION ACTIVITIES ARE BEING PERFORMED IN SUCH A WAY AS NOT TO ENDANGER THE INTEGRITY OF PARKING SURFACE EMBANKMENTS.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED FIVE ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 38000 RELATIVE TO INVASIVE SPECIES.



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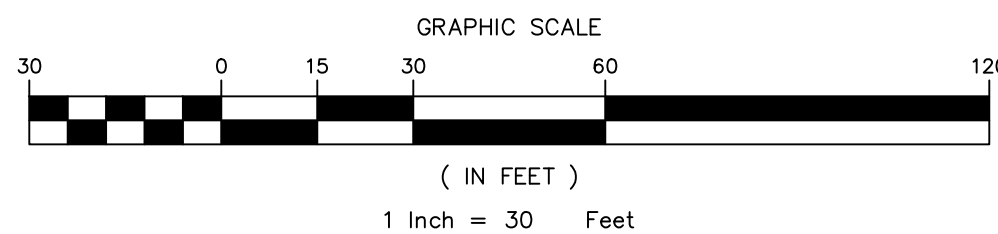
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REVISIONS:



SHEET TITLE:  
**SITE DETAILS-I**

SOIL CLASSIFICATION	TERRAIN TYPE/USE	AREA (AC)	CURVE NUMBER
C SOIL	IMPERVIOUS AREA	0.94	98
C SOIL	OPEN SPACE/GOOD CONDITION	0.89	74
<b>TOTAL</b>	<b>TOTAL</b>	<b>1.83</b>	<b>86</b>

ToC-PRE DA #1  
 100 LF SHEET FLOW @ 1.50% SLOPE, n=0.10  
 457 LF S.C. FLOW @ 2.05% SLOPE, UNPAVED  
 5 LF S.C. FLOW @ 1.50% SLOPE, PAVED  
 ToC=11.1 MIN



SOIL CLASSIFICATION	TERRAIN TYPE/USE	AREA (AC)	CURVE NUMBER
C SOIL	IMPERVIOUS AREA	0.50	98
C SOIL	OPEN SPACE/GOOD CONDITION	0.23	74
<b>TOTAL</b>	<b>TOTAL</b>	<b>0.73</b>	<b>90</b>

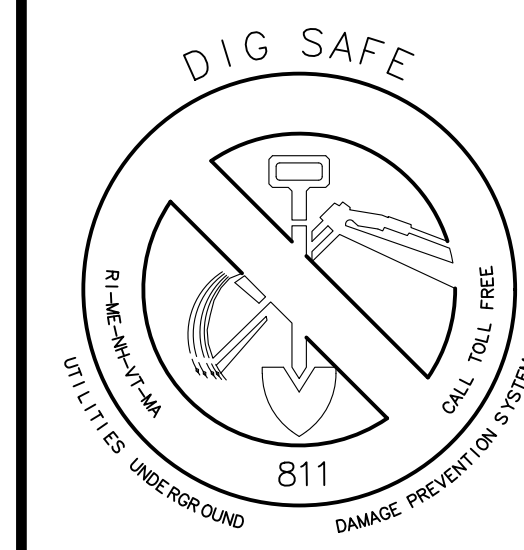
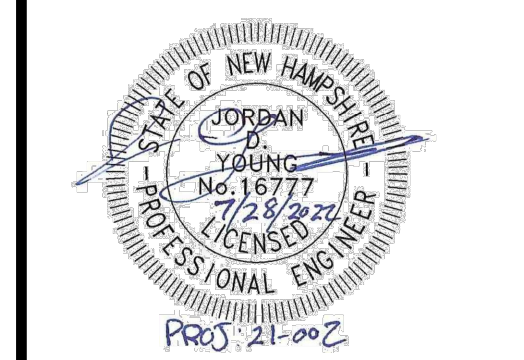
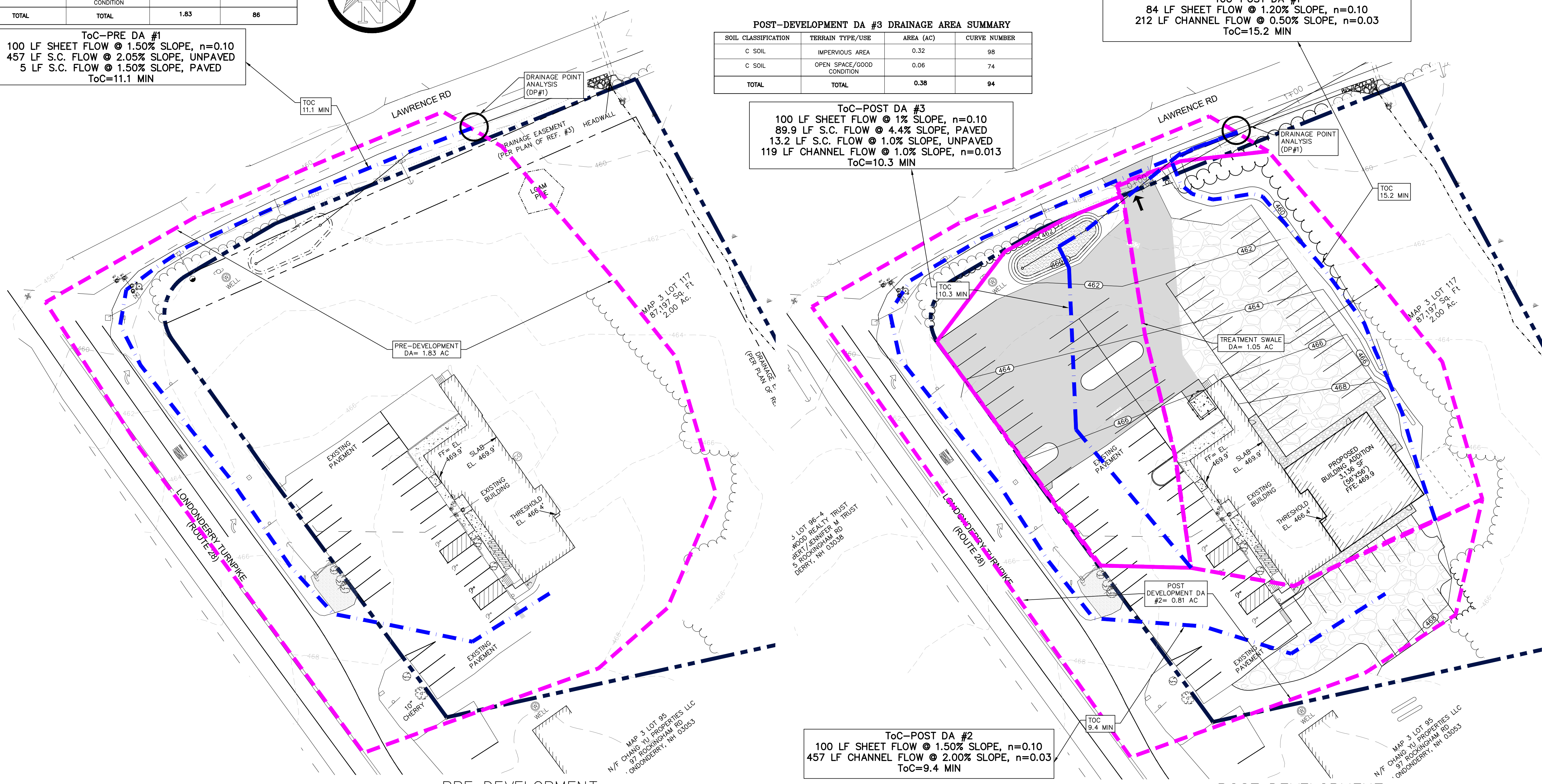
ToC-POST DA #1  
 84 LF SHEET FLOW @ 1.20% SLOPE, n=0.10  
 212 LF CHANNEL FLOW @ 0.50% SLOPE, n=0.03  
 ToC=15.2 MIN

SOIL CLASSIFICATION	TERRAIN TYPE/USE	AREA (AC)	CURVE NUMBER
C SOIL	IMPERVIOUS AREA	0.32	98
C SOIL	OPEN SPACE/GOOD CONDITION	0.06	74
<b>TOTAL</b>	<b>TOTAL</b>	<b>0.38</b>	<b>94</b>

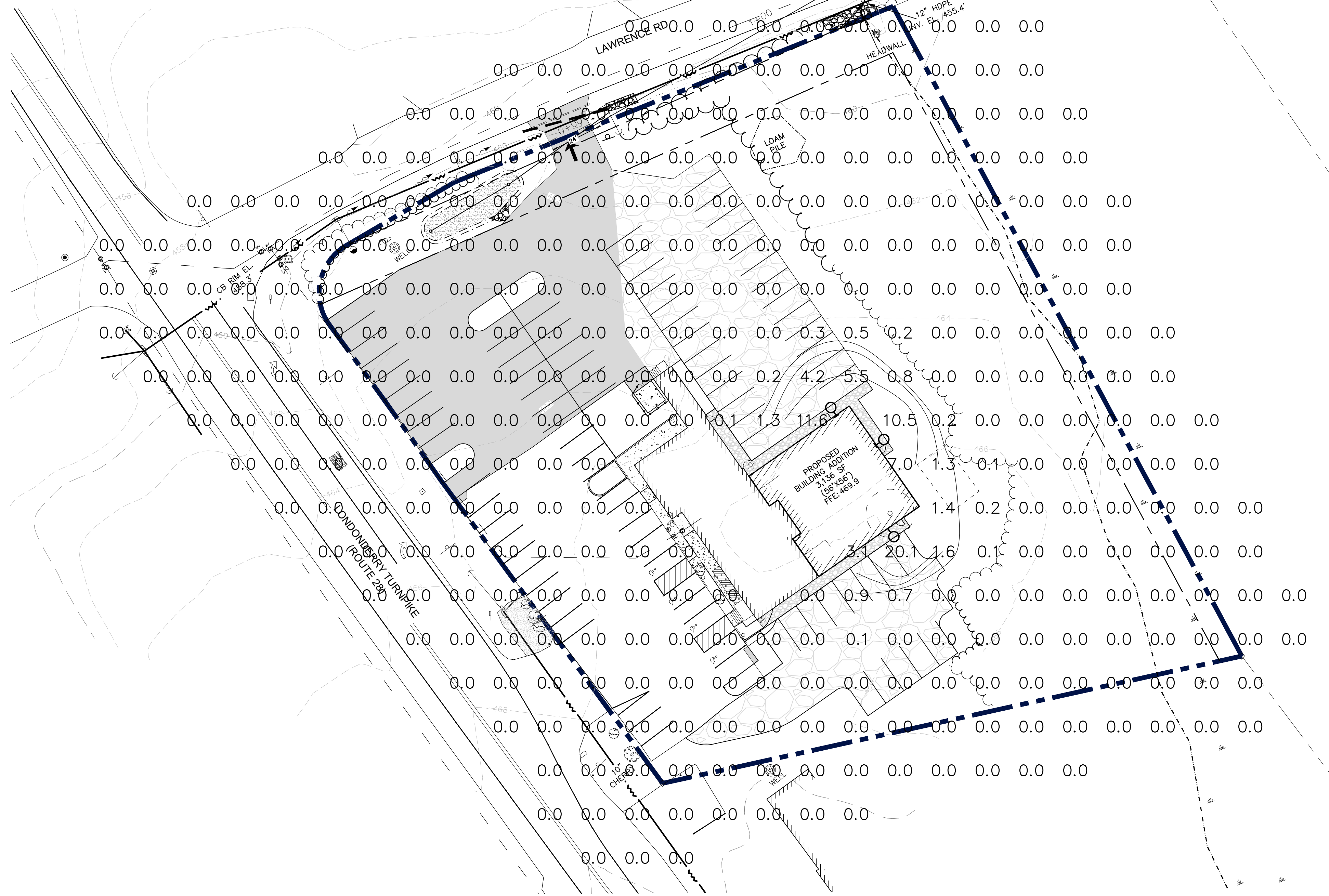
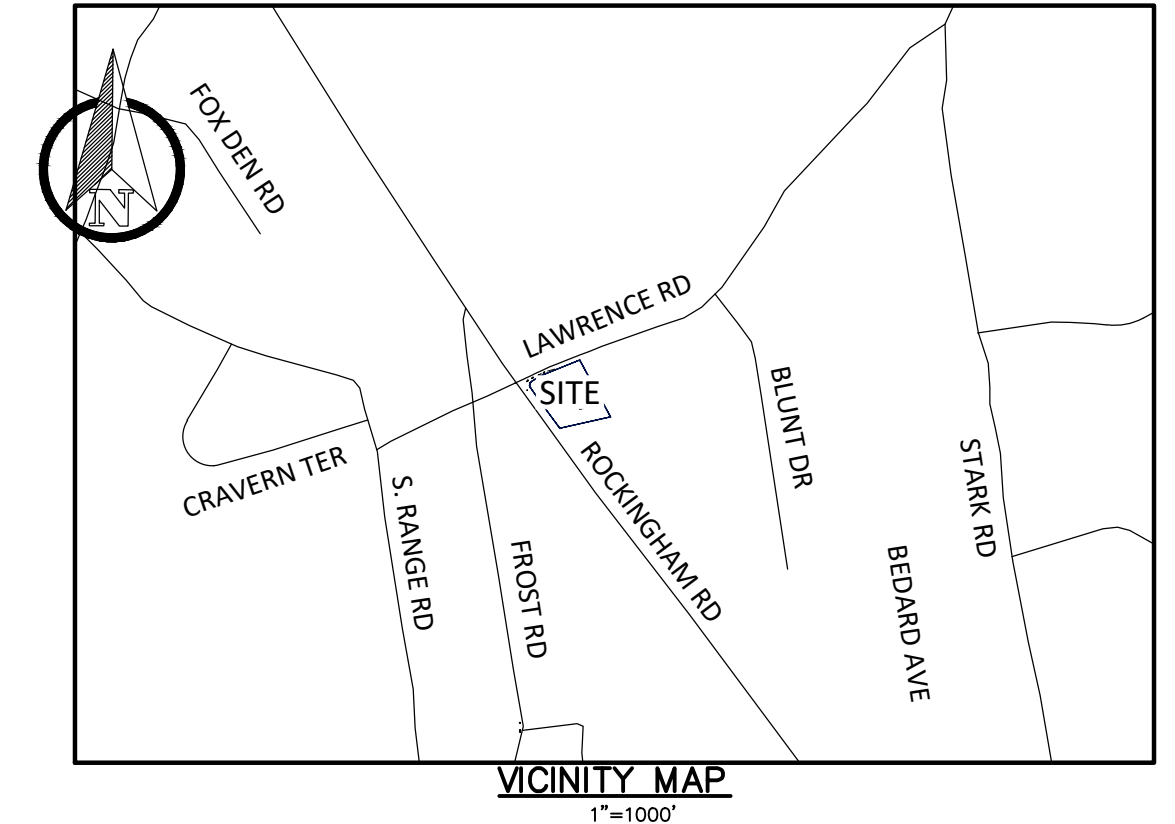
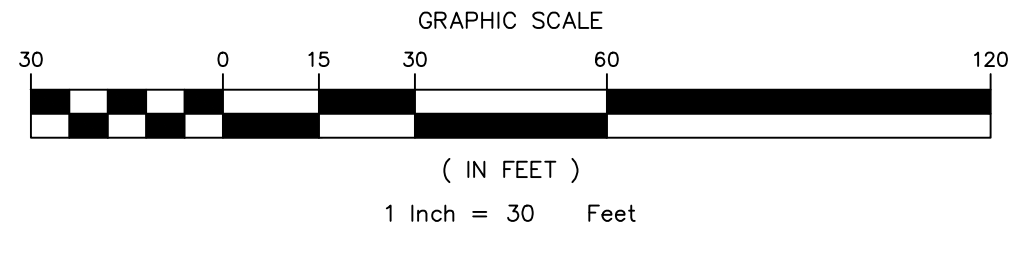
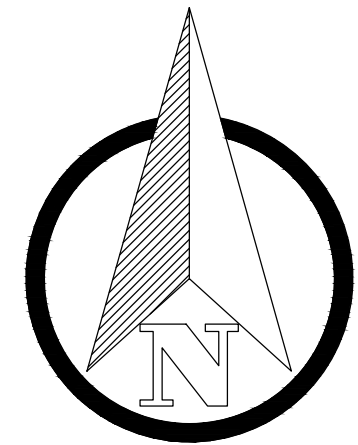
ToC-POST DA #3  
 100 LF SHEET FLOW @ 1% SLOPE, n=0.10  
 89.9 LF S.C. FLOW @ 4.4% SLOPE, PAVED  
 13.2 LF S.C. FLOW @ 1.0% SLOPE, UNPAVED  
 119 LF CHANNEL FLOW @ 1.0% SLOPE, n=0.013  
 ToC=10.3 MIN

ToC-POST DA #2  
 100 LF SHEET FLOW @ 1.50% SLOPE, n=0.10  
 457 LF CHANNEL FLOW @ 2.00% SLOPE, n=0.03  
 ToC=9.4 MIN

SOIL CLASSIFICATION	TERRAIN TYPE/USE	AREA (AC)	CURVE NUMBER
C SOIL	IMPERVIOUS AREA	0.47	98
C SOIL	OPEN SPACE/GOOD CONDITION	0.27	74
<b>TOTAL</b>	<b>TOTAL</b>	<b>0.74</b>	<b>89</b>



	BMP DRAINAGE AREA LIMITS
	TIME OF CONCENTRATION
	DISTURBANCE LIMITS
	PROPOSED TREELINE
	PROPERTY BOUNDARY
	EDGE OF WETLAND
	PROPOSED CONTOUR-MAJOR
	PROPOSED CONTOUR-MINOR
	EXISTING CONTOUR-MAJOR
	EXISTING CONTOUR-MINOR



**WF Full Cutoff Wall Pack Series Gen 3**



The next generation WF Full Cutoff Wall Pack Series Gen 3 comes with newly designed optics for increased beam angle and illumination. This versatile luminaire provides excellent uniformity and full cutoff light distribution and is available in medium and large for varied mounting heights. This can be used in a variety of Commercial, Industrial, and Security applications.

**APPLICATIONS**  
Security Lighting, Perimeter Lighting, Building Entrances, Walkways, etc.

**REPLACEMENT**  
150W - 400W MH

**PERFORMANCE INFORMATION**

SERIES NUMBER	MOUNTING HEIGHT	WATT	LUMENS	CCT
WFM 40 G3 5K	8-20 ft	27W	3,800	5000K
WFM 65 G3 5K	12-20 ft	45W	6,300	5000K
WFM 100 G3 5K	12-20 ft	70W	9,750	5000K
WFL 125 G3 5K	15-30 ft	90W	12,300	5000K
WFL 180 G3 5K	15-30 ft	135W	18,000	5000K

**BUILDING MOUNTED WALL PACK**  
NOT TO SCALE

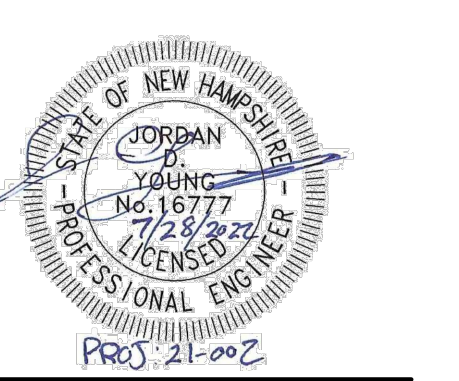
- NOTES:**
1. ALL PROPOSED LIGHTING SHALL BE FULL CUT OFF LIGHTS.
  2. ALL LIGHTING SHALL BE DIRECTED ON TO SIGHT AND AWAY FROM ROADWAY.
  3. CONTRACTOR SHALL FURNISH AND INSTALL ALL COMPONENTS OF THE PROPOSED LIGHTS, INCLUDING BUT NOT LIMITED TO: LIGHT POLES, LIGHT POLE BASES, LIGHT FIXTURES, BULBS AND ALL ELECTRICAL WIRING AND CONDUIT.

**LEGEND\*** \*ALL ITEMS IN LEGEND ARE PROPOSED UNLESS OTHERWISE NOTED.

	(3) PROPOSED BUILDING MOUNTED LIGHT
4.2	LUMENS LABEL
	PROPOSED TREELINE
	EXISTING WETLANDS

**ATLANTIC CIVIL ENGINEERING, PLLC**

13 OLD CHESTER RD  
DERRY, NH, 03038  
Tel: 802.355.6592  
CERTIFICATE #0005626497  
www.atlanticenr.com



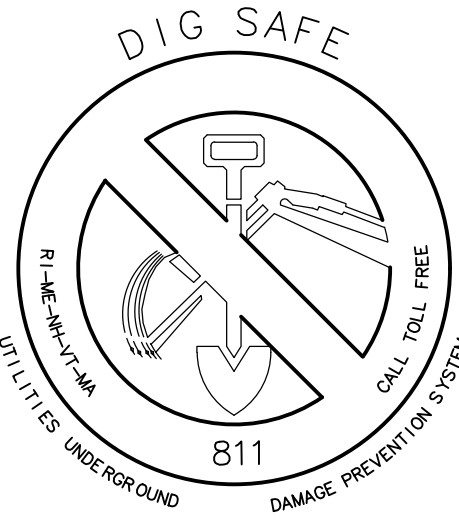
APPLICANT/DEVELOPER:  
BRIDGEWAY CHURCH  
ATTN: LENNY SANTOSUOSSO  
OFFICE: 603.401.2882  
EMAIL: LENNYNCD@COMCAST.NET

**BRIDGEWAY CHURCH**  
148 ROCKINGHAM RD DERRY, NH 03038

STATE: NEW HAMPSHIRE  
COUNTY: ROCKINGHAM

MUNICIPALITY: DERRY

SITE AREA: 2.00± ACRES  
PARCEL ID: 03117-025  
DESIGNED BY: JDY  
DATE: 2022.09.15  
PROJECT: 21-002  
REVISIONS:



SHEET TITLE:  
**PHOTOMETRICS PLAN**

SCALE: 1" = 30'  
SHEET NO.:





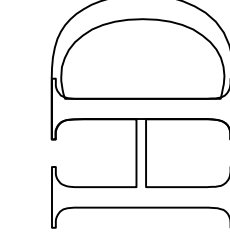
DRAFT

REAR  
VIEW

BRIDGEWAY CHRISTIAN  
CHURCH  
148 ROCKINGHAM RD  
DERRY, NH

DATE:

1/4" SCALE  
ALL DIMENSIONS TO  
BE FIELD VERIFIED  
AND CHANGES MADE  
ACCORDINGLY



**Hankey  
Designs**  
PO Box 93, N. Salem, NH 03073  
(603) 490-0238

REV.

DATE

THESE PLANS ARE INSTRUMENTAL ONLY

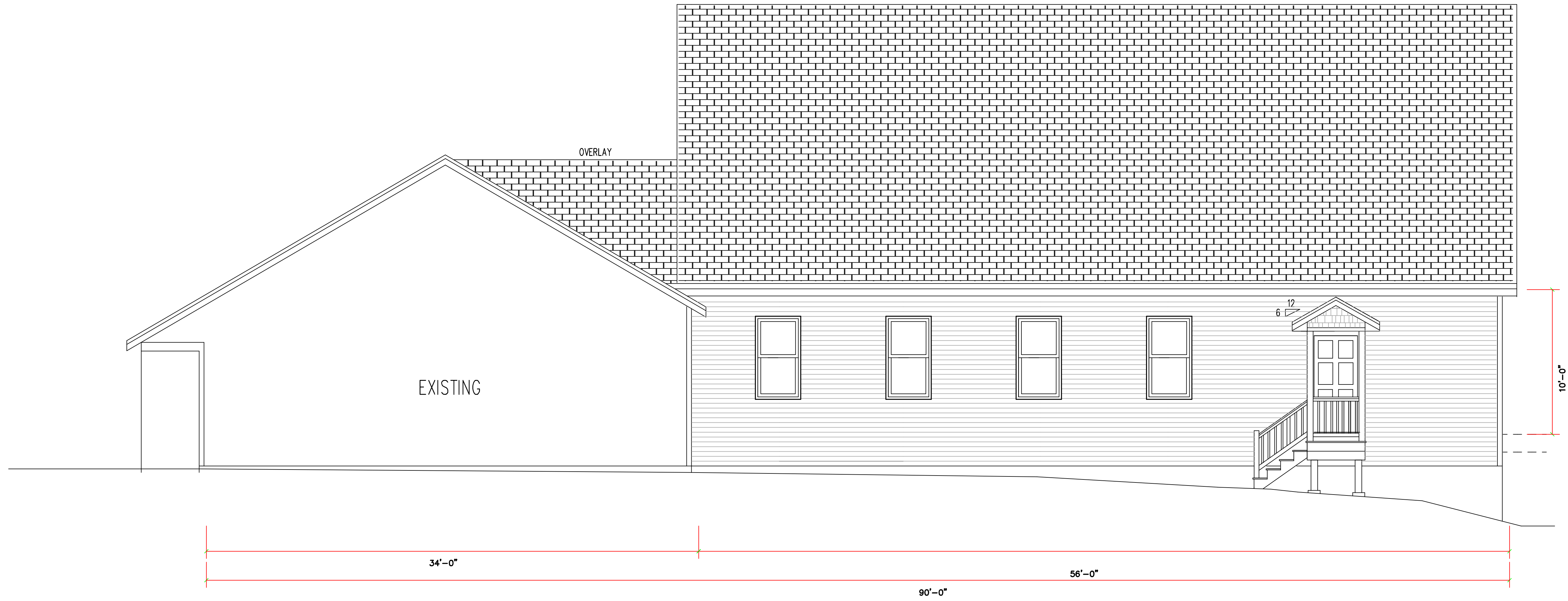
ALL CONSTRUCTION PRACTICES TO FOLLOW IRC 2015

THIS PLAN DOES NOT COVER ALL ASPECTS OF BUILDING THIS BUILDING

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL BUILDING CODES AND NUMBERING

THE GENERAL CONTRACTOR SHALL RESEARCH ZONING AND SITE LIMITATIONS PRIOR TO START OF CONSTRUCTION

THE GENERAL CONTRACTOR (OR PURCHASER OF PLANS IF A.G.C.) ASSUMES FULL RESPONSIBILITY FOR USE OF THIS PLAN OR ANY PART THERE OF



THESE PLANS ARE DIAGRAMMATIC ONLY.  
 ALL CONSTRUCTION PRACTICES TO FOLLOW IRC 2015.  
 THIS PLAN DOES NOT COVER ALL ASPECTS OF BUILDING THIS BUILDING.  
 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL BUILDING CODES AND NEAREST ZONING.  
 THE GENERAL CONTRACTOR SHALL RESEARCH ZONING AND SITE LIMITATIONS PRIOR TO START OF CONSTRUCTION.  
 THE GENERAL CONTRACTOR (OR PURCHASER OF PLANS IN U.S.) ASSUMES FULL RESPONSIBILITY FOR USE OF THIS PLAN OR ANY PART THEREOF.

1/4" SCALE ALL DIMENSIONS TO BE FIELD VERIFIED AND CHANGES MADE ACCORDINGLY	DATE:
BRIDGEWAY CHRISTIAN CHURCH 148 ROCKINGHAM RD DERRY, NH	DATE:
RIGHT VIEW	DATE:
DRAFT	DATE:

**Hankey  
Designs**  
 PO Box 93, N. Salem, NH 03073  
 (603) 490-0258

HD

REV.      DATE