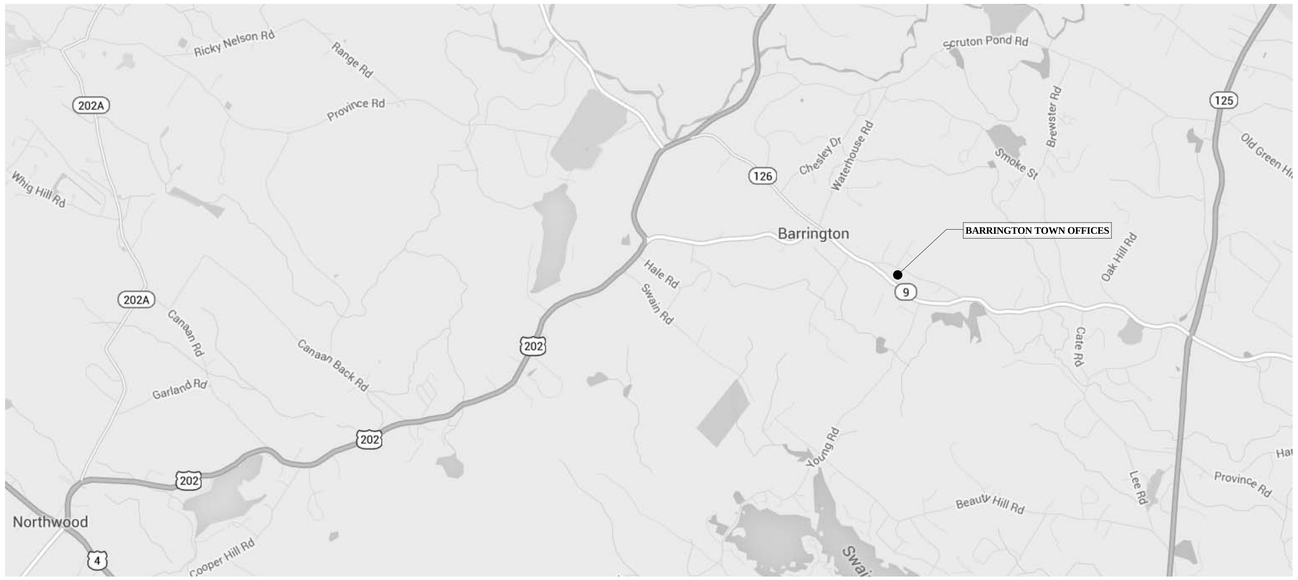
BARRINGTON TOWN OFFICES

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE 03825

BID & CONSTRUCTION SET

12/11/2015

LOCATION MAP:



PROJECT TEAM:

ARCHITECT:	SMP Architecture 30 S. Main St., Building 2 Concord, NH 03301-4809 T: (603) 228-8880 F: (603) 228-8881
STRUCTURAL ENGINEER:	JSN Associates 1 Autumn Street Portsmouth NH 03801 T: (603) 433-8639
MECHANICAL ENGINEER:	Kohler and Lewis Engineering 27 Mechanic Street Keene NH 03431 T: (603) 352-4841
PLUMBING ENGINEER:	Kohler and Lewis Engineering 27 Mechanic Street Keene, NH 03431 T: (603) 352-4841
ELECTRICAL ENGINEER:	Swiftcurrent Engineering Services inc. 10 Forest Falls Drive, Unit 4B Yarmouth ME. 04096 T: (207) 847-9280 F: (207) 847-9281
CONSTRUCTION MANAGER:	
CIVIL ENGINEER::	Dubois and King 18 Constitution Drive Bedford NH 03110 T: 603-637-1043

SMP ARCHITECTURE
PHONE: 603.228.8880
FAX: 603.228.8881
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DRAWING LIST:

Civil/Survey

G1.1	COVER
4069A	TOPOGRAPHIC PLAN OF THE FORMER BARRINGTON TOWN HALL
D1.1	DEMOLITION PLAN
C1.1	SITE LAYOUT PLAN
C1.2	GRADING AND DRAINAGE PLAN
C1.3	UTILITY PLAN
C1.4	DETAILS
C1.5	DETAILS
C1.6	DETAILS
C1.7	DETAILS
C1.8	DETAILS
C2.1	WASTEWATER SITE PLAN
C2.2	WASTEWATER DETAILS
C2.3	PUMP STATION DETAILS

Structural

S1.0	GENERAL STRUCTURAL NOTES (SHEET 1 OF 2)
S1.1	GENERAL STRUCTURAL NOTES (SHEET 2 OF 2)
S1.2	SCHEDULE OF SPECIAL INSPECTIONS
S2.0	FOUNDATION PLAN
S2.1	FOUNDATION DETAILS & SECTIONS
S2.2	FOUNDATION WALL SECTIONS & DETAILS
S2.3	FOUNDATION WALL SECTIONS & DETAILS
S3.0	FLOOR FRAMING PLAN
S4.0	ROOF FRAMING PLAN
S4.1	FOUNDATION WALL SECTIONS & DETAILS
S4.2	FOUNDATION WALL SECTIONS & DETAILS

Architectural

– – –	COVERSHEET
A001	CODE ANALYSIS PLANS
A100	LOWER FLOOR PLAN/RCP & WALL TYPES
A101	MAIN FLOOR PLAN
A102	MAIN FLOOR - REFLECTED CEILING PLAN
A103	ROOF PLAN
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A303	BUILDING SECTIONS
A401	WALL SECTIONS
A402	WALL SECTIONS
A403	WALL SECTIONS
A501	DETAILS
A502	DETAILS
A503	DETAILS
A504	DETAILS
A601	DOOR, FRAME AND HARDWARE SCHEDULES
A701	CASEWORK TYPES & ENLARGED RESTROOM PLANS & ELEVATIONS
A702	INTERIOR ELEVATIONS, ENLARGED PLANS & CASEWORK DETAILS
A703	ENLARGED PLANS & CASEWORK DETAILS
A901	FINISH PLAN AND SCHEDULE

Plumbing

M100	LEVEL 0 & LEVEL 1 PLUMBING PLAN

Mechanical

M200	LEVEL 0 & LEVEL 1 HEATING PLANS
M300	LEVEL 0 & LEVEL 1 VENTILATION PLANS
M400	PLUMBING AND MECHANICAL DETAILS & LEGEND

Electrical

E0.0	ELECTRICAL LEGEND, SYMBOLS, & NOTES
ES1.0	ELECTRICAL POWER & SYSTEMS - FIRST FLOOR PLAN & LOWER LEVEL
E1.0	ELECTRICAL POWER & SYSTEMS - FIRST FLOOR PLAN & LOWER LEVEL
E1.1	ELECTRICAL PANEL SCHEDULES & ONE-LINE DIAGRAM
E2.0	ELECTRICAL LIGHTING & FIRE ALARM PLAN - FIRST FLOOR & LOWER LEVEL
E2.1	ELECTRICAL LIGHTING SCHEDULE, LIGHTING CONTROLS, & FIRE ALARM RISER DIAGRAM

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DATE: 12/11/2015

ISSUED AS: BID & CONSTRUCTION SET

PROJECT NO: 1312

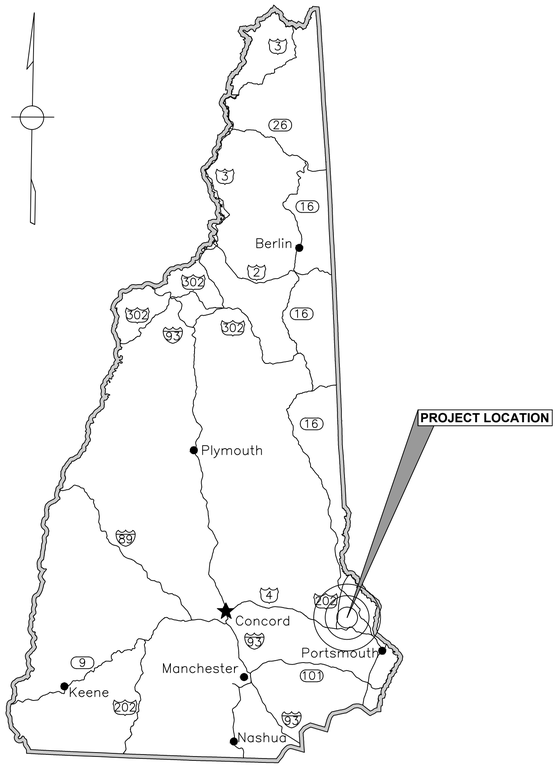
PROJECT: BARRINGTON TOWN OFFICES

NOT FOR CONSTRUCTION
PRELIMINARY PLANS

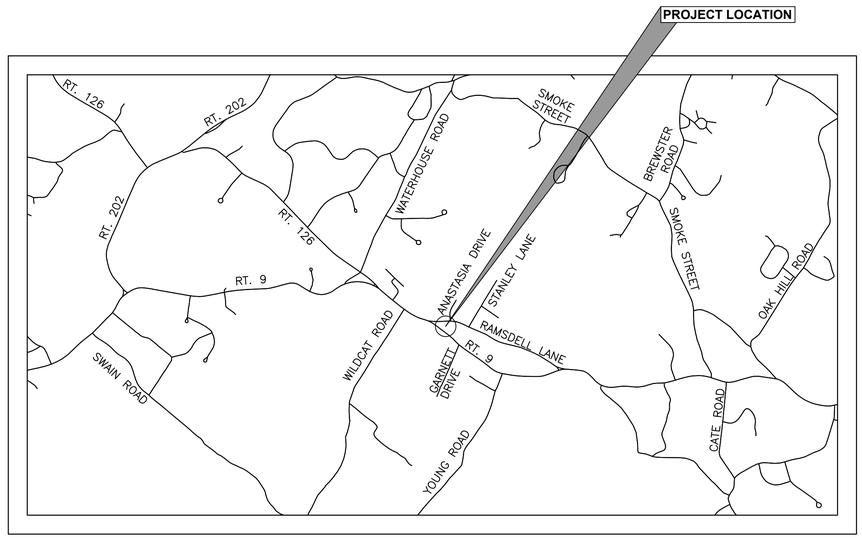
BARRINGTON TOWN OFFICES

RAMSDELL LANE
BARRINGTON, NH

TAX MAP/LOT: 233/000044



LOCUS MAP
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 2,500'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE (APPROX. FROM TAX MAPS)	
	SETBACK LINE	
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	TREELINE	
	SPOT GRADE	×93.8
650	MAJOR CONTOUR	650
648	MINOR CONTOUR	648
	SILT FENCE	SF SF
	CONCRETE WALK/SLAB	
	PAVERS	
	CATCH BASIN	
D	DRAIN PIPE	D
D	DRAIN MANHOLE	D
S	SEWER MANHOLE	
	SEPTIC TANK	S S
	HANDICAP PARKING SPACE	
	VERTICAL GRANITE CURB (VGC)	
	MOUNTABLE GRANITE CURB (MGC)	
	TAPERED CURB SECTION	
	UTILITY POLE	
	LIGHT POLE BASE	
	OVERHEAD WIRES	
	UNDERGROUND ELECTRIC AND TELECOMMUNICATIONS	UE&T
	UNDERGROUND ELECTRIC	UGP
	RETAINING WALL (AS SPECIFIED)	(POINTS TOWARD RETAINING GROUND)
	RETAINING WALL (BOULDER)	(POINTS TOWARD RETAINING GROUND)
	STONE WALL	
	DRY HYDRANT	
	SIGN	
	FREE STANDING SIGN	
W	WELL	W
	PUMP STATION	PS
	BUILDING	
	BUILDING COLUMN	
TP	TEST PIT	TP
	TREE	
	GUARDRAIL	
	CHAINLINK FENCE	
	PICKET FENCE	
	FLARED END OUTLET	
	RIPRAP	
	STONE CHECK DAM	SCD
	LEDGE	
	LIMIT OF SITE DISTURBANCE	

APPROVED BY BARRINGTON PLANNING BOARD :

CHAIRMAN **DATE**

DRAWING LIST

SHEET NUMBER	DRAWING	TITLE
1	G1.1	COVER
2	4069A	TOPOGRAPHIC PLAN OF THE FORMER BARRINGTON TOWN HALL
3	D1.1	DEMOLITION PLAN
4	C1.1	SITE LAYOUT PLAN
5	C1.2	GRADING AND DRAINAGE PLAN
6	C1.3	UTILITY PLAN
7–11	C1.4–1.8	DETAILS
12	C2.1	WASTEWATER SITE PLAN
13	C2.2	WASTEWATER DETAILS
14	C2.3	PUMP STATION DETAILS

BID AND CONSTRUCTION SET

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	95% FINAL REVIEW SET	DUP	MTO
2	10/26/2015	PROGRESS SET FOR BUDGET UPDATE	DUP	MTO
1	3/4/2015	GENERAL REVISIONS, ADD SHEETS C1.5–1.8	MEF	MTO

PREPARED BY:
DuBois & King inc.
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ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT

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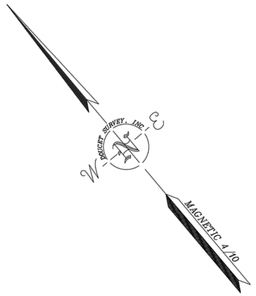
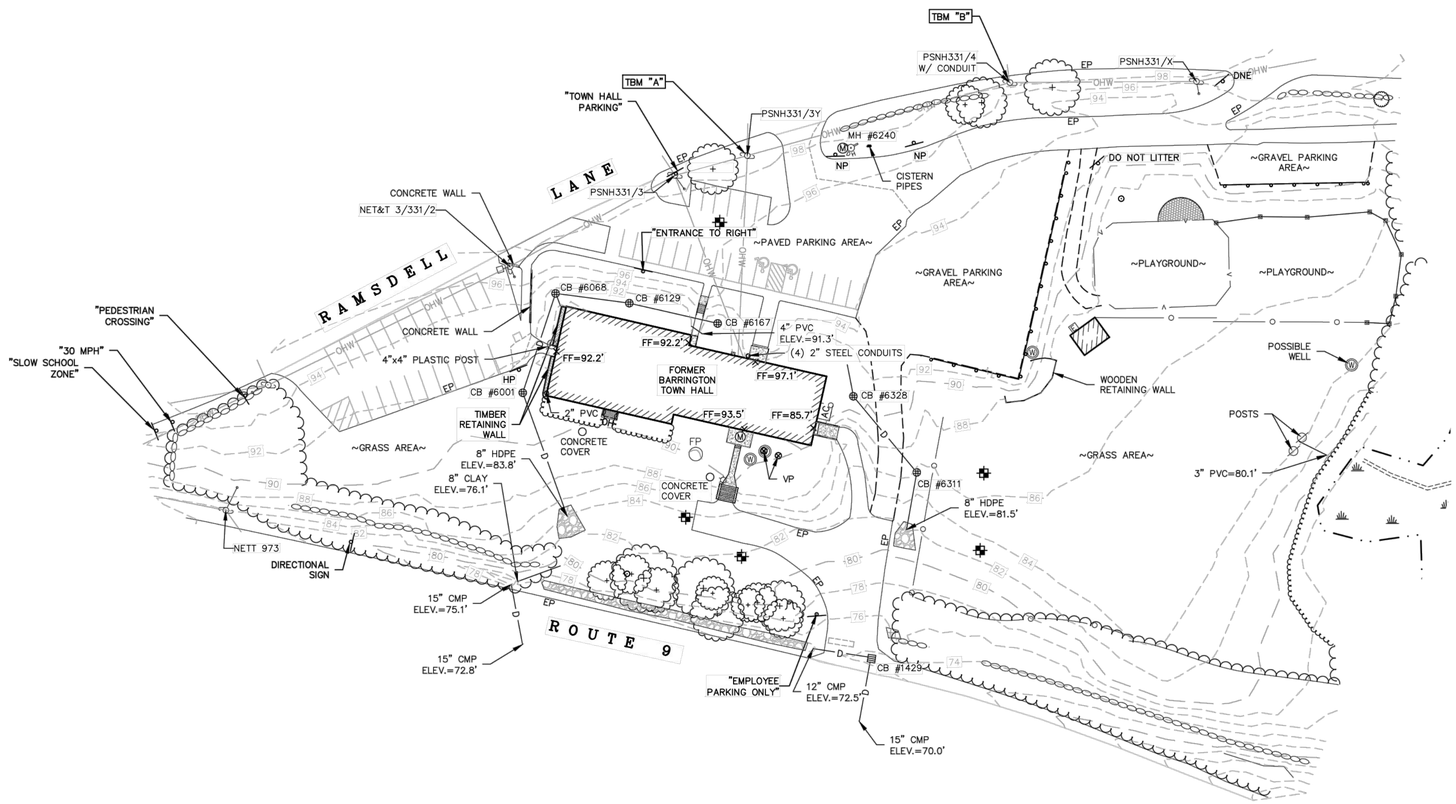
DRAWN BY: DUP	DATE: FEB 2015
CHECKED BY: JAA	PROJECT NO.: 322819
PROJECT ENG: MTO	DRAW NO.: G1.1

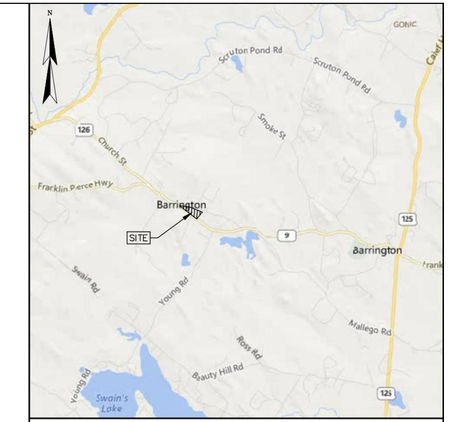


BENCHMARK TABLE

TBM A
MAG NAIL SET UP 12" IN
POLE #PSNH 331/3Y
ELEV.=100.50'

TBM B
MAG NAIL SET UP 12" IN
POLE #PSNH 331/4
ELEV.=99.06'





Location Map (n.t.s.)

NOTES:

1. REFERENCE: TAX MAP 233 LOT.
2. FIELD SURVEY PERFORMED BY JFK, RKM & JDG ON 4/10 AND BY NJM & JPE ON 9/15 TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
3. JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING APRIL 2010 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT Y-87-1.
4. HORIZONTAL DATUM BASED ON MAGNETIC OBSERVATION.
5. VERTICAL DATUM IS BASED ON ASSUMED ELEVATION.

DRAINAGE STRUCTURE TABLE
CB 1429 RIM=73.7' INV. IN 12" CMP=71.3' INV. OUT 12" CMP=71.2'
CB #6001 RIM=90.2' INV. IN 8" HDPE=86.7' INV. OUT 8" HDPE=86.6'
CB #6068 RIM=91.0' INV. IN 4" PVC=87.6' INV. IN 8" HDPE=87.3' INV. OUT 8" HDPE=87.2'
CB #6129 RIM=90.9' INV. IN 8" HDPE=87.6' INV. OUT 8" HDPE=87.6'
CB #6167 RIM=90.6' INV. OUT 8" HDPE=88.3'
CB #6311 RIM=85.5' INV. IN 8" HDPE=81.9' INV. OUT 8" HDPE=81.8'
CB #6328 RIM=88.3' INV. IN 8" HDPE=83.3' INV. OUT 8" HDPE=83.4'

LEGEND

- STONE WALL
- CHAIN LINK FENCE
- GUARDRAIL
- OHW — OVERHEAD WIRES
- D — DRAIN LINE
- 90 — MAJOR CONTOUR LINE
- 88 — MINOR CONTOUR LINE
- TREE LINE
- SHRUB LINE
- EDGE OF WETLAND
- UTILITY POLE
- UTILITY POLE & GUY WIRE
- UTILITY POLE W/ LIGHT
- LAMP POLE
- SIGN
- FP — FLAG POLE
- POST
- DRY HYDRANT
- WELL
- VENT PIPE
- E — ELECTRIC BOX
- CATCH BASIN
- CATCH BASIN (ROUND)
- M — MANHOLE
- WETLAND AREA
- DECIDUOUS TREE
- POSSIBLE TEST PIT
- CONCRETE
- RIP RAP
- LANDSCAPED AREA
- LEDGE OUTCROP
- ACCESSIBLE PARKING SPACE
- TYP. — TYPICAL
- FF — FINISHED FLOOR
- EP — EDGE OF PAVEMENT
- CONC. — CONCRETE
- HP — HANDICAP PARKING SIGN
- NP — NO PARKING SIGN
- VP — VENT PIPE
- AS — AUTO SPRINKLER

NO.	DATE	DESCRIPTION	BY

NOTE:
ALL ELECTRIC, GAS, TEL. 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 LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

TOPOGRAPHIC PLAN
OF THE
FORMER BARRINGTON TOWN HALL
RAMSDELL LANE & ROUTE 9
BARRINGTON, NEW HAMPSHIRE

DRAWN BY: K.C.W.	DATE: OCTOBER 5, 2015		
CHECKED BY: S.V.M.	DRAWING NO.: 4069A		
JOB NO.: 4069	SHEET 1	OF 1	

DOUCET SURVEY INC
Serving Your Professional Surveying & Mapping Needs
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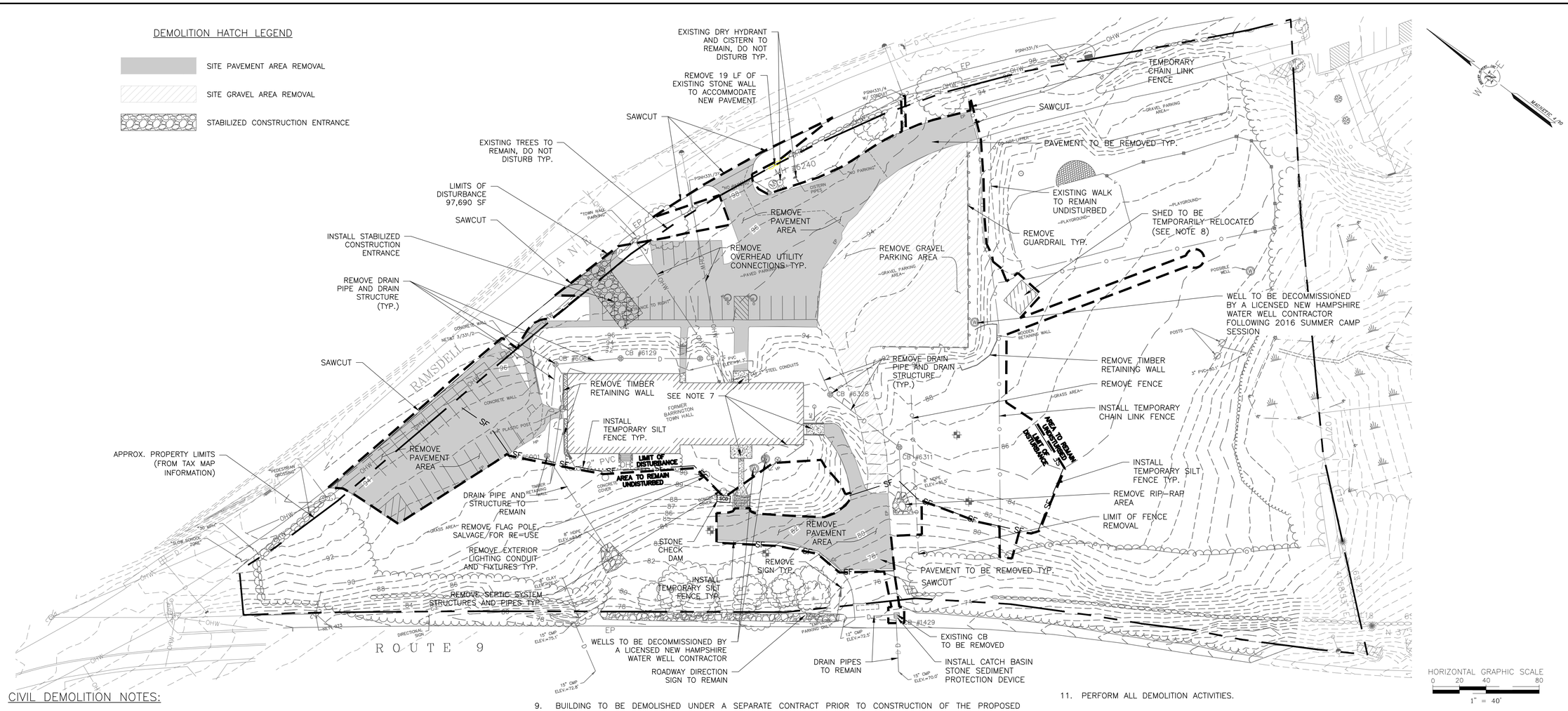
10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005
http://www.doucetsurvey.com



CIVIL DEMOLITION NOTES:

1. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR SITE CLEARING, THE LIMIT OF WORK SHALL BE CLEARLY MARKED IN THE FIELD (VIA DEMARCATION FENCE) BY THE CONTRACTOR AT 50-FOOT (±) INTERVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN THE LIMIT OF WORK AND IS PROHIBITED FROM USING ANY AREA LOCATED OUTSIDE OF SUCH LIMIT.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT DIG SAFE (888-DIG-SAFE) AT LEASE 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

3. ROCK EXCAVATION AND BLASTING SHALL BE IN ACCORDANCE WITH SECTION 203.3.2 OF THE STATE OF NEW HAMPSHIRE DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AUGUST 2010 EDITION. SUBMITTALS SHALL BE COORDINATED WITH THE CITY AND THE OWNER, AND PROVIDED BY THE CONTRACTOR AS REQUIRED.

4. IN THE EVENT LEDGE REMOVAL IS REQUIRED (VIA BLASTING OR JACK-HAMMERING) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AN EXISTING CONDITIONS FILE CONSISTING OF VIDEO, PHOTOGRAPHS AND DOCUMENTATION OF THE PROJECT SITE AND ABUTTING EXISTING FEATURE(S), INCLUDING BUT NOT LIMITED TO, ABUTTERS LOCATED ACROSS ALL STREETS WITHIN THE VICINITY OF THE PROJECT SITE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED AREAS SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY CONTROL DEVISES SHALL BE DEPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIALS SHALL BE MANAGED IN A MANNER THAT WILL MINIMIZE EROSION. SEE EROSION CONTROL PLAN AND EROSION CONTROL NOTES & DETAIL SHEET FOR SUPPLEMENTAL INFORMATION.

6. SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR'S OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL. ALL DISPOSED MATERIAL SHALL BE IN ACCORDANCE TO ALL LOCAL, STATE AND FEDERAL LAWS.

7. ALL EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH O.S.H.A. STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES.

8. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES.

9. BUILDING TO BE DEMOLISHED UNDER A SEPARATE CONTRACT PRIOR TO CONSTRUCTION OF THE PROPOSED TOWN OFFICE BUILDING. SOIL AREAS NEAR THE FORMER BUILDING FOOTPRINT WILL BE SLOPED TO PROVIDE SAFE GRADE CHANGES AND SMOOTH TRANSITIONS TO UNDISTURBED AREAS.

10. SHED SHALL BE RELOCATED PRIOR TO BEGINNING OF 2016 SUMMER CAMP SESSION, COORDINATE WITH OWNER ON TIMING AND LOCATION. PROVIDE TEMPORARY ELECTRIC AND WATER CONNECTIONS. SHED TO BE REMOVED FOLLOWING 2016 SUMMER CAMP SESSION.

11. REMOVE ALL UTILITIES IN THE WORK AREA WHETHER SHOWN OR NOT. CUT AND CAP ALL UNDERGROUND LINES AT THE PROPERTY LINE UNLESS OTHERWISE NOTED. EXISTING UTILITY SERVICES TO BE CAPPED, ABANDONED, OR REMOVED SHALL MEET THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANIES.

12. DEMOLITION/CONSTRUCTION DEBRIS AND STUMPS SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

13. FOR ALL ITEMS NOTED TO BE REMOVED WITHIN THE FOOTPRINT OF THE NEW BUILDING – REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPE, ETC. THE EXTENT OF THE DEMOLITION OF THE FORMER BUILDING IS NOT FULLY KNOWN OR DEFINED.

SUGGESTED CONSTRUCTION SEQUENCE:

8. INSTALL STABILIZED CONSTRUCTION ENTRANCE.

9. CLEAR AND GRUB ONLY TO THE LIMITS OF CUT AND FILL. COORDINATES IDENTIFIED ON THIS PLAN ARE FOR REFERENCE ONLY AND ARE NOT INTENDED FOR EXACT CLEARING LIMITS; HOWEVER THE AREA OF DISTURBANCE SHALL NOT EXCEED 100,000 SF DUE TO PERMITTING REQUIREMENTS.

10. CONSTRUCT TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION. SEE EROSION AND SEDIMENTATION CONTROL PLAN, NOTES & DETAIL SHEETS.

11. PERFORM ALL DEMOLITION ACTIVITIES.

12. REMOVE TOPSOIL FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF DISTURBED AREA. UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL STOCKPILE TOPSOIL AND USE ON THIS PROJECT AS NEEDED IN ACCORDANCE WITH NHDOT SECTION 641 – LOAM.

13. CONSTRUCT STORMWATER COLLECTION AND CONVEYANCE SYSTEM.

14. CONSTRUCT SEPTIC SYSTEM FOLLOWING 2016 SUMMER CAMP SESSION.

15. CONSTRUCT UNDERGROUND UTILITES.

16. CONSTRUCT BUILDING.

17. CONSTRUCT EMBANKMENT AND SUBGRADE AREAS, INCLUDING ALL REPAIRS AS SHOWN ON THIS PLAN SET; INSTALL UTILITIES.

18. GRADE PROJECT SITE. PLACE TEMPORARY (AND PERMANENT, IF FEASIBLE) LOAM, SEED AND MULCH ON ALL DISTURBED AREAS IMMEDIATELY AFTER CONSTRUCTION OF SAID AREAS.

19. PLACE RIGID CONCRETE AND BITUMINOUS CONCRETE PAVEMENT BASE COURSES.

20. PLACE RIGID CONCRETE AND BITUMINOUS CONCRETE PAVEMENT.

21. COMPLETE PERMANENT SEEDING ON ALL DISTURBED AREAS AND LANDSCAPING PLANTINGS.

22. REMOVE TEMPORARY CONTROL MEASURES AND ACCOMPLISH FINAL CLEAN-UP.

DuBois & King inc.
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FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	95% FINAL REVIEW SET	DUP	MTO
2	10/26/2015	PROGRESS SET FOR BUDGET UPDATE	DUP	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DEMOLITION PLAN

DRAWN BY: DUP	DATE: FEB 2015
CHECKED BY: JAA	D&K PROJECT #: 323146P
PROJ. ENG.: MTO	D&K ARCHIVE #:

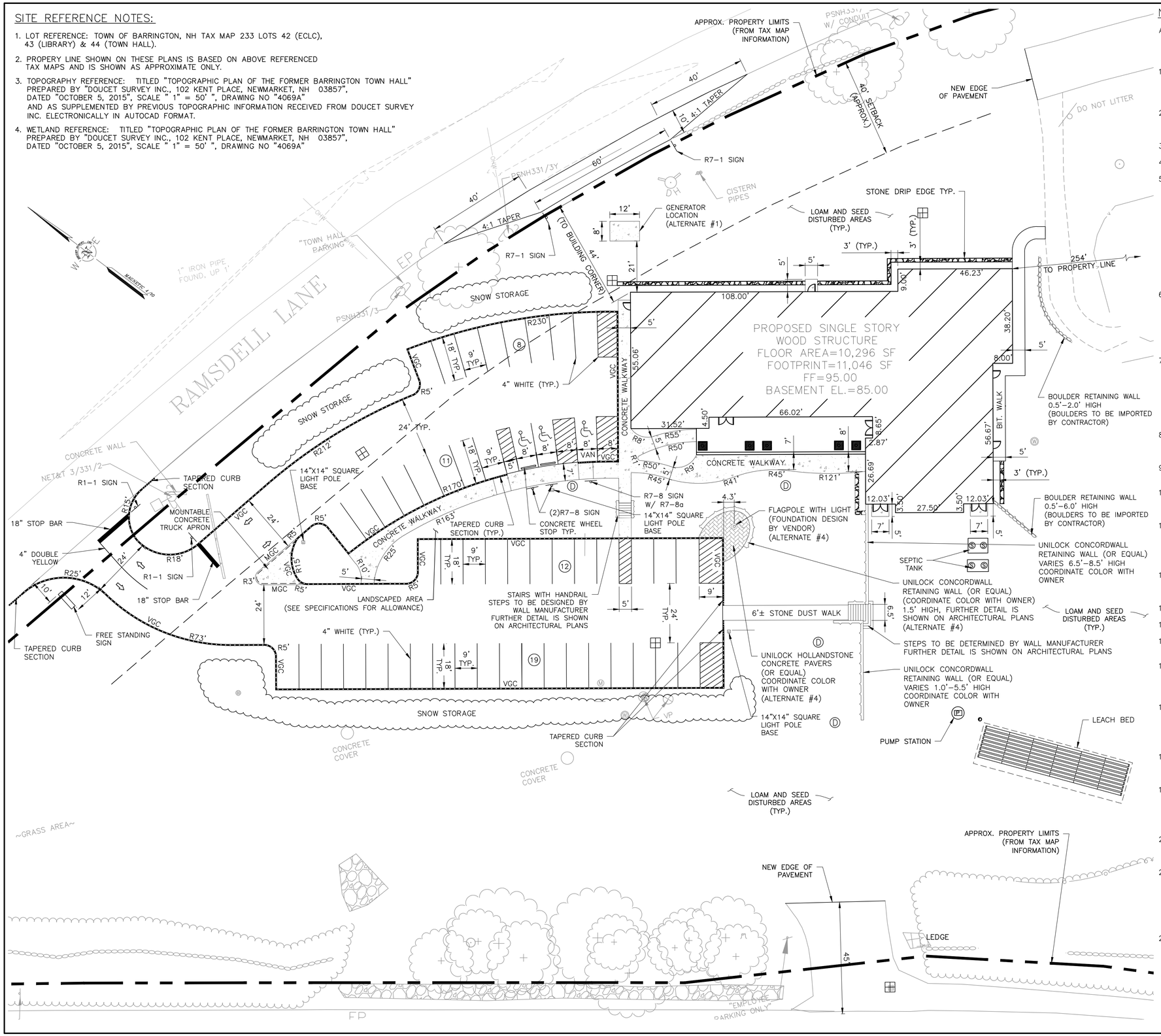
DRAWING NO.

D1.1

I:\322819P – Barrington, Town Offices\Drawings\323146P-D1.1 DEMOLITION.dwg 12/11/2015 2:28 PM

SITE REFERENCE NOTES:

1. LOT REFERENCE: TOWN OF BARRINGTON, NH TAX MAP 233 LOTS 42 (ECLC), 43 (LIBRARY) & 44 (TOWN HALL).
2. PROPERY LINE SHOWN ON THESE PLANS IS BASED ON ABOVE REFERENCED TAX MAPS AND IS SHOWN AS APPROXIMATE ONLY.
3. TOPOGRAPHY REFERENCE: TITLED "TOPOGRAPHIC PLAN OF THE FORMER BARRINGTON TOWN HALL" PREPARED BY "DOUCET SURVEY INC., 102 KENT PLACE, NEWMARKET, NH 03857", DATED "OCTOBER 5, 2015", SCALE " 1" = 50' ", DRAWING NO "4069A" AND AS SUPPLEMENTED BY PREVIOUS TOPOGRAPHIC INFORMATION RECEIVED FROM DOUCET SURVEY INC. ELECTRONICALLY IN AUTOCAD FORMAT.
4. WETLAND REFERENCE: TITLED "TOPOGRAPHIC PLAN OF THE FORMER BARRINGTON TOWN HALL" PREPARED BY "DOUCET SURVEY INC., 102 KENT PLACE, NEWMARKET, NH 03857", DATED "OCTOBER 5, 2015", SCALE " 1" = 50' ", DRAWING NO "4069A"



NOTES:

APPLICANT/OWNER: THE TOWN OF BARRINGTON
P.O. BOX 660
333 CALEF HIGHWAY
BARRINGTON, NH 03825

1. PURPOSE OF THESE PLANS IS TO CONSTRUCT AN 10,296 SF TOWN OFFICE BUILDING (11,046 SF FOOTPRINT) AND ASSOCIATED PARKING AREAS. THE EXISTING BUILDING IS TO BE RAZED UNDER A SEPARATE CONTRACT TO BE COMPLETED PRIOR TO INITIATION OF THIS PROJECT.
2. LOT SHOWN ON ASSESSOR'S MAP 233-BLOCK-LOT 0044, 137 RAMSDELL LANE, IN THE TOWN OF BARRINGTON, OF STRAFFORD COUNTY, AND OF THE STATE OF NEW HAMPSHIRE.
3. LOT AREA APPROX. 5.48 AC.
4. ZONING DESIGNATION: NEIGHBORHOOD RESIDENTIAL (NR)
5. ZONING REQUIREMENTS:

	REQUIRED	PROVIDED
LOT AREA:	80,000 SF	238,700 SF (5.48 AC)
FRONTAGE:	200 FT	898' (APPROX.)
SETBACKS		
FRONT:	40 FT	44'
SIDE:	30 FT	254'
REAR:	30 FT	N/A
MAX. BUILDING HEIGHT:	35 FT (2.5 STORIES)	25 FT (1 STORY)

6. THE EXISTING PARCEL IS CURRENTLY IMPROVED WITH A VACANT 2 STORY BRICK STRUCTURE FORMERLY HOUSING THE BARRINGTON TOWN OFFICES, AS WELL AS A PLAYGROUND AND ATHLETIC FIELDS USED BY THE BARRINGTON RECREATION DEPARTMENT. THE PROPOSED USE OF THE PARCEL IS TO CONSTRUCT A NEW TOWN OFFICE BUILDING WHILE MAINTAINING THE EXISTING PLAYGROUND AND ATHLETIC FIELDS, UTILIZING THE PARCEL AS IT HAS BEEN HISTORICALLY.
7. PARKING AREA REQUIREMENTS (SECTION 4.9):
   OFFICE BUILDING: 1 SPACE/300 SF X 10,296 SF = 34.3 ≈ 34 SP.
   MEETING ROOM: 1 SPACE/4 SEATS X 85 SEATS = 21.3 ≈ 21 SP.
   (MEETING ROOM IS INTENDED FOR USE AFTER OFFICE BUILDING IS CLOSED, THEREFORE 34 SPACES ARE REQUIRED FOR THE MORE INTENSE OF THE TWO (2) USES.
   SPACES REQUIRED: 34 SPACES
   SPACES PROVIDED: 50 SPACES (INCLUDING 3 ACCESSIBLE)
8. LOT COVERAGE (% IMPERVIOUS SURFACE): MAXIMUM ALLOWED=40%
   EXISTING=27%
   PROPOSED=19%
9. NO ZONING VARIANCES OR SPECIAL EXCEPTIONS HAVE BEEN INDENTIFIED AT THE TIME OF SUBMITTAL.
10. FEMA FLOOD INSURANCE RATE MAP 33017C0285D, PANEL 285 OF 405, EFFECTIVE 5/17/2005, INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOACTED WITHIN A FLOOD HAZARD AREA.
11. PERMITS REQUIRED BY THE TOWN OF BARRINGTON:

PERMIT	APPROVAL NO.
SUBSURFACE	
PUBLIC WATER SUPPLY	

12. THE FOLLOWING WAIVERS ARE REQUESTED FROM THE SITE PLAN REVIEW REGULATIONS:
    4.9.2(1) TO ALLOW PARKING WITHIN THE FRONT SETBACK
13. CONSTRUCTION ASSUMED TO COMMENCE IN SUMMER OF 2016.
14. ALL CURB RADII ARE TO THE OUTSIDE FACE.
15. ALL LIGHTING SHALL BE DIRECTED ON-SITE; REFER TO BOTH SITE LIGHTING PLAN AND THE BUILDING LIGHTING PLAN FOR FURTHER DETAILS.
16. ALL SIGNS SHALL CONFORM TO APPLICABLE TOWN OF BARRINGTON REGULATIONS UNDER ARTICLE 3, SECTION 3.1.8 OF THE TOWN OF BARRINGTON, NH ZONING ORDINANCE; REFER TO STANDARD DETAILS FOR FURTHER INFORMATION.
17. EXISTING SIGNS IMPACTED BY THIS PROJECT SHALL BE RESET AT NO ADDITIONAL COST TO THE OWNER. PLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
18. SITE IMPROVEMENTS DEPICTED ON THE PLAN SHALL CONFORM TO THE MOST CURRENT EDITION OF THE AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN WITH REGARDS TO DIMENSIONS AND GRADES.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING "STREET OPENING PERMIT" FROM TOWN OF BARRINGTON DEPARTMENT OF PUBLIC WORKS PRIOR TO PERFORMING ANY WORK WITHIN THE MUNICIPALITY'S RIGHT-OF-WAY(S).
21. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY RIGHT-OF-WAYS AND EASEMENTS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE OWNER HAS SECURED ANY NECESSARY EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
22. IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	PROGRESS SET FOR BUDGET UPDATE	DUP	MTO
2	10/26/2015	95% FINAL REVIEW SET	DUP	MTO
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

SITE LAYOUT

DRAWN BY	DATE
DUP	FEB 2015
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JAA	323146P
PROJ. ENG.	D&K ARCHIVE #
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C1.1

SHEET 4 OF 14

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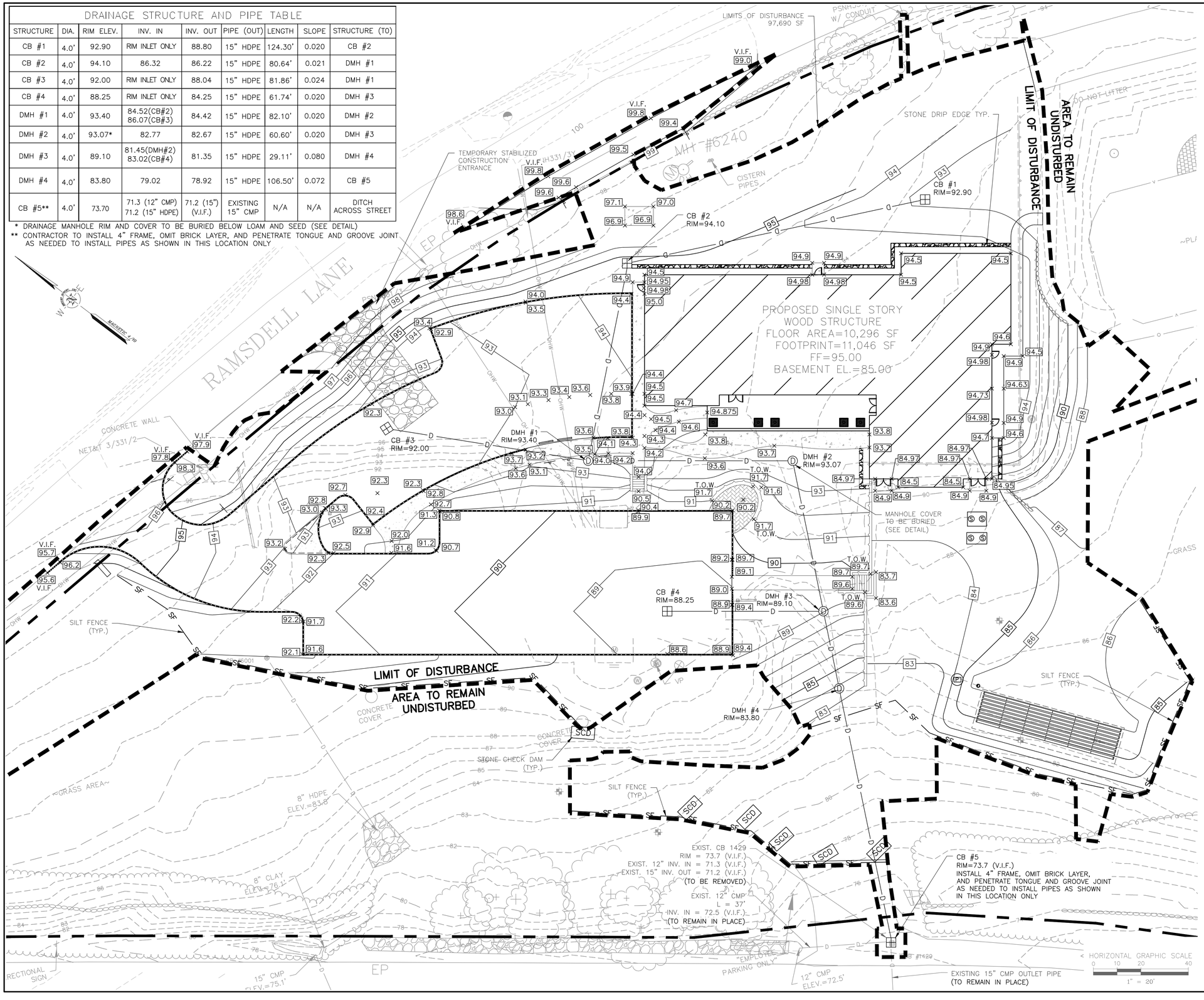
DRAINAGE STRUCTURE AND PIPE TABLE

STRUCTURE	DIA.	RIM ELEV.	INV. IN	INV. OUT	PIPE (OUT)	LENGTH	SLOPE	STRUCTURE (TO)
CB #1	4.0'	92.90	RIM INLET ONLY	88.80	15" HDPE	124.30'	0.020	CB #2
CB #2	4.0'	94.10	86.32	86.22	15" HDPE	80.64'	0.021	DMH #1
CB #3	4.0'	92.00	RIM INLET ONLY	88.04	15" HDPE	81.86'	0.024	DMH #1
CB #4	4.0'	88.25	RIM INLET ONLY	84.25	15" HDPE	61.74'	0.020	DMH #3
DMH #1	4.0'	93.40	84.52(CB#2) 86.07(CB#3)	84.42	15" HDPE	82.10'	0.020	DMH #2
DMH #2	4.0'	93.07*	82.77	82.67	15" HDPE	60.60'	0.020	DMH #3
DMH #3	4.0'	89.10	81.45(DMH#2) 83.02(CB#4)	81.35	15" HDPE	29.11'	0.080	DMH #4
DMH #4	4.0'	83.80	79.02	78.92	15" HDPE	106.50'	0.072	CB #5
CB #5**	4.0'	73.70	71.3 (12" CMP) 71.2 (15" HDPE)	71.2 (15") (V.I.F.)	EXISTING 15" CMP	N/A	N/A	DITCH ACROSS STREET

* DRAINAGE MANHOLE RIM AND COVER TO BE BURIED BELOW LOAM AND SEED (SEE DETAIL)

** CONTRACTOR TO INSTALL 4" FRAME, OMIT BRICK LAYER, AND PENETRATE TONGUE AND GROOVE JOINT AS NEEDED TO INSTALL PIPES AS SHOWN IN THIS LOCATION ONLY



NOTES:

1. CONTRACTOR SHALL CONSTRUCT TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FACILITIES PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, ITEMS IDENTIFIED WITHIN THIS PLAN SET OR WITHIN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION CONTROL. SEE EROSION CONTROL NOTES & DETAIL SHEET FOR SUPPLEMENTAL INFORMATION.

2. THE CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE PROJECT SITE FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR SHALL (DAILY OR AS REQUIRED BASIS) INSPECT AND RECORD FINDINGS OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES TO ENSURE THAT ALL ITEMS ARE IN STABLE CONDITION. IN THE EVENT THAT SAID ITEMS ARE DETERMINED TO BE IN UNSATISFACTORY CONDITION, THE CONTRACTOR SHALL RECORD THE UNSATISFACTORY ISSUE, THE DATE OF THE UNSATISFACTORY FINDING, THE APPROPRIATE CORRECTIVE MEASURE AND THE DATE THE CORRECTIVE MEASURE WAS COMPLETED.

3. ALL DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT. SEE DEMOLITION SHEET FOR LIMIT OF WORK BOUNDARY DEFINITION. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO ACRES PER DRAINAGE AREA.

4. ALL SLOPES GREATER THAN 3:1 SHALL BE PROTECTED FROM EROSION WITH APPROPRIATE SLOPE STABILIZATION CONTROL MEASURES PRIOR TO LOAMING, SEEDING AND MULCHING WITHIN 72 HOURS OF COMPLETION. CONTRACTOR SHALL MAINTAIN EROSION CONTROL PROTECTION UNTIL VEGETATION GROWTH HAS BEEN ESTABLISHED. ALL SLOPE STABILIZATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREAS SHALL BE LEFT EXPOSED DURING THE WINTER MONTHS.

6. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.

7. ALL SWALES AND DITCHES WITH SLOPES EXCEEDING 5% SHALL BE PROTECTED FROM EROSION WITH APPROPRIATE STABILIZATION CONTROL MATTING. ALL MATTING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. ALL SWALES AND DITCHES SHALL BE PROPERLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.

8. ALL CONCRETE AND BITUMINOUS PATCH AREAS SHALL MATCH EXISTING GRADES.

9. IN GENERAL, FINISH GRADES AROUND BUILDINGS SHALL BE 6 INCHES LOWER THAN FINISH FLOOR ELEVATIONS, UNLESS OTHERWISE NOTED. SEE GRADING PLANS (NORTHERN AND SOUTHERN LIMITS) FOR LOCATION AND FINISH GRADE ELEVATIONS ALONG BUILDING LIMITS.

10. IN GENERAL, FINISH GRADES SHALL BE SLOPED 5% AWAY FROM BUILDINGS FOR A DISTANCE OF 10 FEET FROM THE EXTERIOR WALL OF SAID BUILDING, UNLESS OTHERWISE NOTED.

11. FINISH GRADES OF SIDEWALKS AT BUILDING ENTRANCES SHALL BE 1/4 OF AN INCH LOWER THAN FINISH FLOOR ELEVATION.

12. ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH THE AMERICAN DISABILITY ACT (ADA) REQUIREMENTS, UNLESS OTHERWISE NOTED.

13. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, SIDEWALKS, AND CURBING.

14. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

15. SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THEIR OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE CONTRACTING OFFICER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL.

16. ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.

17. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.

18. THE LIMIT OF GRADING SHALL BE CLEARLY INDICATED ON THE GROUND DURING THE GRADING OF THE SITE.

19. CONTRACTOR SHALL CLEAR AND GRUB ONLY TO THE LIMITS OF CUT AND FILL.

DEFINITION:

20. STABLE SHALL BE DEFINED AS AREAS THAT DO NOT ERODE (I.E., WEARING AWAY OF LAND BY RUNNING WATER, WAVES, WIND, ICE, ABRASION AND/OR TRANSPORTATION). AN AREA SHALL BE CONSIDERED STABLE ONLY IF THE FOLLOWING HAS OCCURRED:

20.1. BASE COURSE GRAVELS HAVE BEEN PLACED AND COMPACTED IN AREAS TO BE PAVED.

20.2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.

20.3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL (STONE OR RIPRAP) HAS BEEN INSTALLED.

20.4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

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GRADING AND DRAINAGE PLAN

DRAWN BY	DATE
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JAA	323146P
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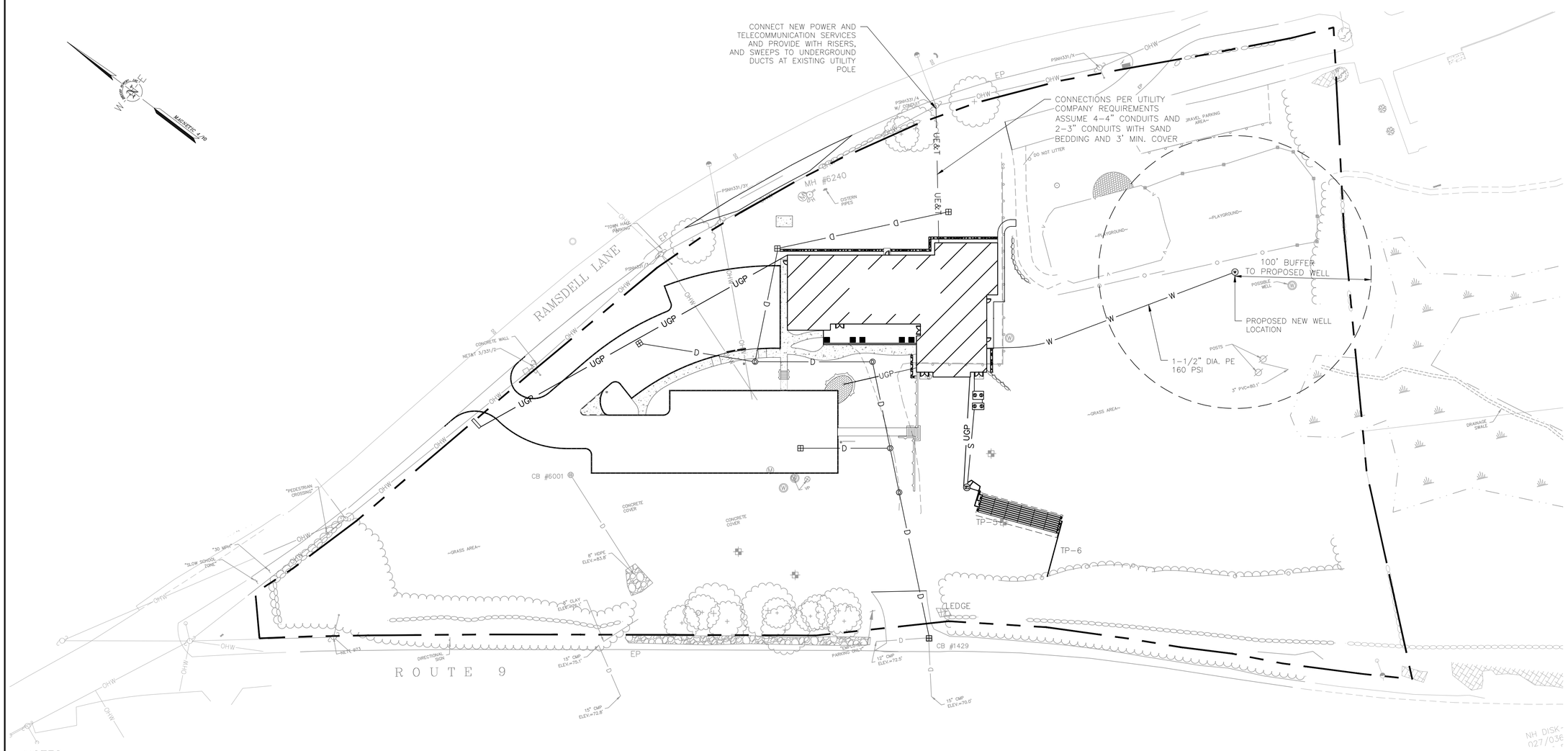

NOTES:

1. BELOW GRADE UTILITY INFORMATION IS BASED ON RECORD DRAWINGS. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE LINES ARE NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL UTILITIES WITH LOCAL UTILITY COMPANIES ALONG WITH NOTIFYING "DIG-SAFE" (1-800-344-7233) AT LEASE 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. ALL UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE INITIATION OF CONSTRUCTION.

2. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITY RELOCATION AND INSTALLATION WITH THE APPROPRIATE UTILITY. THE APPROPRIATE UTILITY OR ITS AUTHORIZED REPRESENTATIVE WILL PERFORM ADJUSTMENTS OF ALL UTILITY STRUCTURES. UTILITY CONTACTS ARE AS FOLLOWS:

   WATER: ON SITE DRILLED WELL
   SEPTIC: ON SITE PRIVATE SEPTIC
   ELECTRIC: EVERSOURCE PHONE: 800-362-7764
   TELEPHONE: FAIRPOINT PHONE: 888-984-1515
   STORMWATER: PRIVATE

3. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE DEMOLITION PLAN. AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL REPAIR OR COORDINATE WITH THE RESPECTIVE UTILITY FOR DAMAGE TO UTILITIES.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY FEES.

5. SEE SHEET C1.3 FOR ISOLATED WATER, ELECTRIC, TELEPHONE AND CABLE LAYOUT. SEE SHEETS C1.2 FOR GRADING AND DRAINAGE LAYOUT. SEE SHEET C2.1 FOR SEPTIC TANK AND LEACHING CHAMBER LAYOUT.

6. CONSTRUCTION AND TESTING OF SANITARY UTILITES SHALL BE IN ACCORDANCE WITH NHDES AND THE MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL COORDINATE INSPECTIONS AND PAY ANY ASSOCIATED COSTS.

7. CONSTRUCTION, TESTING AND DISINFECTION OF WATER UTILITES SHALL BE IN ACCORDANCE WITH NHDES REQUIREMENTS.

8. CABLE/TV UTILITY SERVICE SHALL BE LOCATED WITHIN THE SAME UTILITY TRENCH AS SUBSURFACE TELEPHONE (UT).

9. ELECTRICAL, TELEPHONE AND CABLE SHALL BE INSTALLED IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY'S INSTALLATION REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY. UTILITY CONDUIT SIZES SHALL BE PER RESPECTIVE UTILITY COMPANY'S STANDARDS OR AS NOTED ON THE PLANS; WHICHEVER IS LARGER. AT A MINIMUM UTILITY SERVICES SHALL BE INSTALLED WITHIN SCHEDULE 80 PVC AND 40 PVC CONDUITS UNDER ROADWAYS AND NON-ROADWAYS AREAS (RESPECTIVELY) UNLESS OTHERWISE NOTED AND SHALL HAVE A MINIMUM OF 3' OF COVER.

10. SEE SHEETS C2.1, C2.2 AND C2.3 FOR WELL AND SEPTIC DESIGN.

11. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.

12. THE CONTRACTOR SHALL COORDINATE MATERIAL, CONNECTION REQUIREMENTS, INSTALLATION AND TESTING SPECIFICATIONS WITH THE INDIVIDUAL UTILITY COMPANIES AND ARRANGE FOR ALL INSPECTIONS.

13. COORDINATE UTILITY CONNECTIONS TO THE BUILDING WITH ARCHIECTURAL DRAWINGS.

14. ALL MANHOLES, HANDHOLES, AND COVERS IN PAVEMENT SHALL HAVE RIMS SET TO FINISH GRADE, REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN.

15. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRING TO ALL SIGNS AND LIGHTS. CONDUIT TO BE A MINIMUM OF 24" BELOW FINISH GRADE.

16. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.

HORIZONTAL GRAPHIC SCALE
0 20 40 80
1" = 40'

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BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

UTILITY PLAN

DRAWN BY	DATE
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GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY DUBOIS & KING, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO SAFETY OF THE CONTRACTOR, HIS SUBCONTRACTORS, OR THEIR EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.

2. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THIS WORK AT ALL TIMES.

3. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS. NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET.

4. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. DUBOIS & KING, INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

5. DUBOIS & KING, INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.

6. EXCAVATION AND FILL PERMITS SHALL BE OBTAINED FROM THE TOWN OF BARRINGTON BY THE EXCAVATION CONTRACTOR AT HIS EXPENSE. BONDING REQUIREMENTS ASSOCIATED WITH THESE PERMITS ARE ALSO THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR.

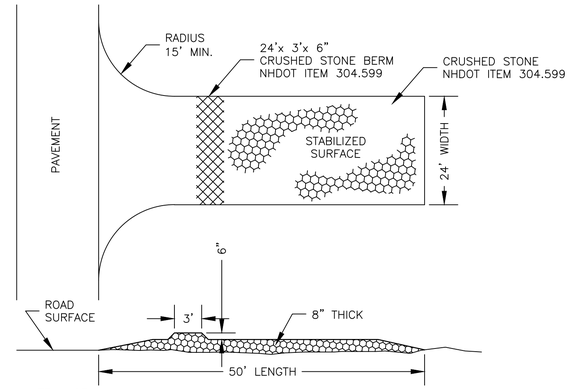
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT HAS REACHED SUBSTANTIAL COMPLETION.

8. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).

9. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER AND THE TOWN OF BARRINGTON PUBLIC WORKS DEPARTMENT PRIOR TO PERFORMING ANY ACTIVITIES WITHIN THE MUNICIPALITIES RIGHTS-OF-WAY. THE TOWN OF BARRINGTON POLICE DEPARTMENT (603-664-2700), FIRE DEPARTMENT (603-664-2241), AND PUBLIC WORKS (603-664-0166) ARE TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR.

10. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ENVIRONMENTAL PERMITS OBTAINED TO THE OWNER INCLUDING ALL UP-DATES OF STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P)

11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT'S SCOPE OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, IN WRITING, PRIOR TO THE INITIATION OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.

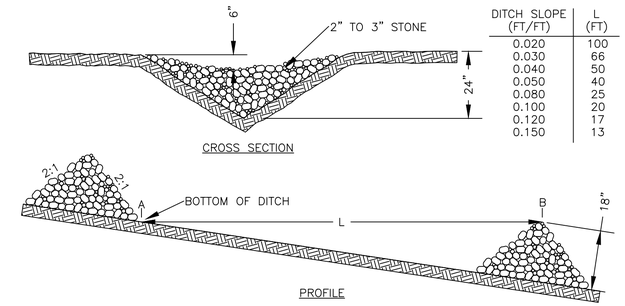


MAINTENANCE:

1. IN THE EVENT THAT MUD OR SOIL PARTICLES CLOG THE VOIDS OF THE CONSTRUCTION ENTRANCE, THE CONSTRUCTION ENTRANCE SHOULD BE TOPDRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE CONSTRUCTION ENTRANCE MAY BE REQUIRED.

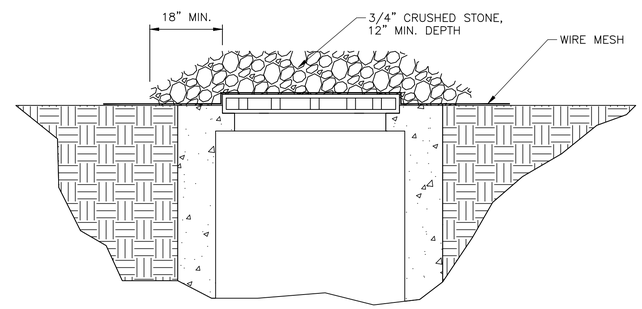
2. IF WASH FACILITIES ARE USED, SEDIMENTATION TRAPS SHOULD BE CLEANED AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE PERFORMANCE OF SEDIMENTATION COLLECTION AND STORAGE IS AVAILABLE.

STABILIZED CONSTRUCTION ENTRANCE
(TEMPORARY, TO BE REMOVED PRIOR TO FINAL PAVING)
NOT TO SCALE



DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13

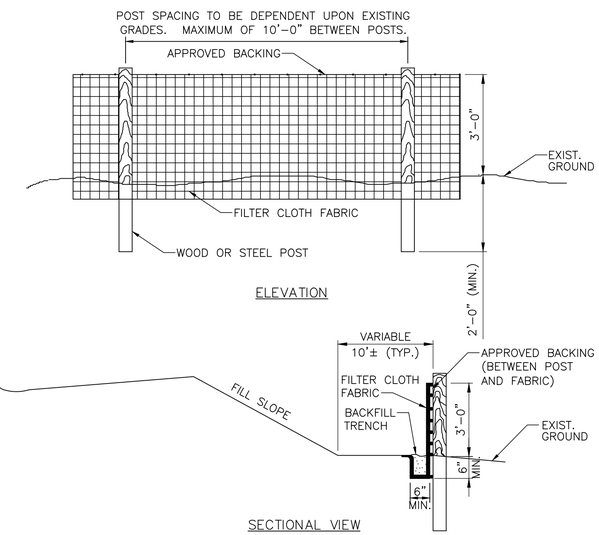
STONE CHECK DAM DETAIL
NOT TO SCALE

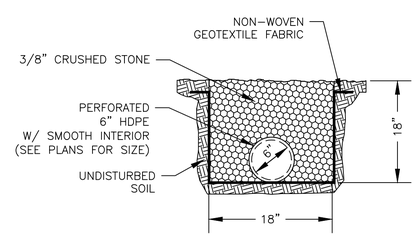


NOTE:

CONTRACTOR WILL NOT BE PERMITTED TO SUBSTITUTE SILTATION CONTROL FABRIC UNDER CB GRATE

STONE INLET PROTECTION DEVICE
NOT TO SCALE





STONE DRIP EDGE DETAIL
NOT TO SCALE

SILT FENCE NOTES:

1. PREASSEMBLED SILT FENCING AS MANUFACTURED FOR THIS PURPOSE IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE UPON APPROVAL BY THE ENGINEER.

2. FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE, AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.

3. SILT FENCE SHALL BE CONSTRUCTED AT LOCATIONS AS SHOWN ON PLANS OR WHERE DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCES DURING THE LIFE OF THE CONTRACT. SILT ACCUMULATIONS SHALL BE REMOVED AND THE FENCES SHALL REMAIN IN PLACE.

5. THE CONTRACTOR SHALL BE REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE CONSTRUCTION AREA.

6. AFTER AN ACCEPTABLE STAND OF TURF HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT FENCE.

STANDARD TEMPORARY SILT FENCE
(TEMPORARY, TO BE REMOVED PRIOR TO FINAL PAVING)
NOT TO SCALE

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	95% FINAL REVEW SET	DUP	MTO
2	10/26/2015	PREOGRESS SET FOR BUDGET UPDATE	DUP	MTO
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DETAILS

DRAWN BY	DATE
DUP	FEB 2015
CHECKED BY	D&K PROJECT #
JAA	323146P
PROJ. ENG.	D&K ARCHIVE #
MTO	

DRAWING NO.

C1.4

SHEET 7 OF 14

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GENERAL EROSION AND SEDIMENTATION CONTROL NOTES:

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) STORMWATER MANUAL, VOLUME 3. THE PROPOSED LOCATIONS OF EROSION CONTROL BEST MANAGEMENT PRACTICES (TO BE INSTALLED AT A MINIMUM) ARE SHOWN ON THE PLAN SET HEREIN.

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 – EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION", PUBLISHED BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES); DATED DECEMBER 2008 (OR CURRENT EDITION).

2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL, ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO (2) ACRES AT ANY ONE TIME

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT, MONITOR AND MAINTAIN ALL EROSION CONTROL STRUCTURES; SEE EROSION CONTROL – INSPECTION, MONITORING & MAINTENANCE NOTES LOCATED HEREIN.

4. SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCES, ETC.) SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UP-GRADIENT DRAINAGE AREAS.

5. ALL EXISTING STORM DRAINAGE INLETS SHALL BE PROTECTED BY STONE INLET PROTECTION DEVICES AND CATCH BASIN FILTER BASKETS TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS INTO THE STORM DRAIN SYSTEM.

6. NO TREES ARE TO BE REMOVED FROM AREAS OUTSIDE THE LIMITS OF GRADING OR FROM SPECIFICALLY DESIGNATED UNDISTURBED AREAS WITHIN THE CONSTRUCTION AREA. IF TREES DESIGNATED TO BE SAVED ARE DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THEM AT NO COST TO THE OWNER OR OWNER'S REPRESENTATIVE.

7. SLOPES, EITHER PERMANENT OR TEMPORARY, BETWEEN SLOPES 3 HORIZONTAL TO ONE VERTICAL (3:1) TO TWO HORIZONTAL TO ONE VERTICAL (2:1) SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS AND ANCHORED MULCH NETTING (100% BIODEGRADABLE – PLASTIC NETTING WILL NOT BE ALLOWED – AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS). SLOPES BETWEEN TWO HORIZONTAL TO ONE VERTICAL (2:1) AND ONE AND ONE-HALF HORIZONTAL TO ONE VERTICAL (1.5:1) SHALL BE STABILIZED WITH RIPRAP. SLOPES STEEPER THAN ONE AND ONE-HALF HORIZONTAL TO ONE VERTICAL (1.5:1) SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.

8. CUT AND FILL AREAS ARE TO BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 72 HOURS FOLLOWING FINAL GRADING.

9. ALL AREAS OF EXPOSED OR DISTURBED SOIL OTHER THAN THE NEWLY STABILIZED STREAM BANK TO BE STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT, OR AN INDEPENDENT MONITOR.

10. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, SEED SHOULD BE PLACED FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS (NOVEMBER THROUGH MARCH). SEE WINTER CONSTRUCTION NOTES. PLANT ANNUAL RYE GRASS PRIOR TO OCTOBER 15TH.

11. AFTER OCTOBER 15TH: WHERE MULCH IS USED, IT SHALL BE APPLIED AT TWICE THE RATE AS DURING REGULAR CONSTRUCTION SEASON TO PROVIDE ADDITIONAL PROTECTION. SNOW AND ICE SHALL BE REMOVED TO A THICKNESS LESS THAN ONE INCH BEFORE APPLYING MULCH (IF APPLICABLE) TO DISTURBED SOILS. WHERE FINISHED GRADE IS ACHIEVED, OR BEFORE FORECASTED THAW OR SPRING MELT, MULCH MUST BE SECURED WITH EROSION CONTROL NETTING, TRACKING, OR OTHER METHOD. DIVERSION SWALES OR DITCHES WITHOUT STABILIZED VEGETATION BY OCTOBER 15TH SHALL BE STABILIZED WITH STONE FILL OR EROSION CONTROL NETTING AS APPROVED BY OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.

12. ONCE DISTURBED AREAS HAVE BEEN STABILIZED AND VEGETATION IS ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE SHALL BE REMOVED. AREAS DISTURBED BY REMOVAL OF THESE MEASURES SHALL BE IMMEDIATELY SEEDED ACCORDING TO SEEDING SPECIFICATIONS ON THESE DRAWINGS.

13. SPECIES CONSIDERED LOCALLY INVASIVE OR NOXIOUS MAY NOT BE USED.

14. USE ONLY NON-PHOSPHATE FERTILIZERS WITHIN 20' OF SURFACE WATERS.

15. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND RE-GRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.

16. RE-VEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND RE-VEGETATED AS FOLLOWS:

    16.1. A MINIMUM OF FOUR (4) INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.

    16.2. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT DEEMED FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SQ. FT.).

    16.3. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED WITH A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYE GRASS: SEEDING RATE IS 1.03 LBS PER 1000 SQ. FT. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.

    16.4. HAY MULCH AT THE RATE OF 70-90 LBS PER 1000 SQUARE FEET OR A HYDRO-APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.

17. AN AREA IS CONSIDERED "STABLE" IF ONE OF THE FOLLOWING HAS OCCURRED: 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 RIP RAP OR A CERTIFIED COMPOST BLANKET) HAS BEEN INSTALLED; OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL – INSPECTION, MONITORING & MAINTENANCE:

1. THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES CGP.

2. THE CONTRACTOR SHALL MAINTAIN INSPECTION AND REPAIR REPORTS OF EROSION AND SEDIMENT CONTROL MONITORING AND THESE SHALL BE KEPT AT THE PROJECT SITE DURING CONSTRUCTION. THE REPORTS SHALL INCLUDE THE FOLLOWING:

    2.1. THE INSPECTION DATE;

    2.2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;

    2.3. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;

    2.4. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;

    2.5. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;

    2.6. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;

    2.7. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND,

    2.8. CORRECTIVE ACTION REQUIRED INCLUDING IMPLEMENTATION DATES

3. AT LEAST ONCE EVERY 7 CALENDAR DAYS AND DURING OR WITHIN 24 HOURS OF ANY RAIN EVENT IN WHICH 1/2 -INCH OF PRECIPITATION OR MORE FALLS WITHIN A 24-HOUR PERIOD. THE CONTRACTOR SHALL HAVE QUALIFIED PERSONNEL INSPECT ALL CLEARED AND GRADED AREAS OF THE CONSTRUCTION SITE AND ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.

4. THIS INSPECTION WILL VERIFY THAT ALL EROSION CONTROL DEVICES ARE IN GOOD AND WORKING CONDITION. DISCHARGE LOCATIONS WILL BE INSPECTED TO VERIFY THAT SEDIMENTS ARE NOT ENTERING THE DRAINAGE SYSTEM AND ARE NOT EXITING THE PROJECT SITE. VEHICLE ACCESS LOCATIONS WILL BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING INTO THE PUBLIC RIGHT-OF-WAY.

5. ANY OBSERVED ACCUMULATION OF SEDIMENT OFF THE SITE WILL BE IMMEDIATELY REMOVED AND THE AREA RESTORED TO PRE-CONSTRUCTION CONDITIONS.

6. TEMPORARY MEASURES
INSPECTION SHALL VERIFY THAT ANY TEMPORARY MEASURES BEING USED BY THE CONTRACTOR ARE CONSTRUCTED AND OPERATING IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS. MEASURES SHALL BE REPAIRED AND ACCUMULATION OF SEDIMENTS SHALL BE CLEANED AS NEEDED.

EROSION CONTROL – WINTER CONSTRUCTION

FOR SITE WORK CONSTRUCTION BETWEEN OCTOBER 15TH AND EARLY APRIL THE CONTRACTOR SHALL FOLLOW WINTER CONSTRUCTION EROSION PROTECTION METHODS AS DESCRIBED BELOW:

1. CHECK ALL PERIMETER EROSION CONTROL MEASURES AND COMPLETE ANY REQUIRED MAINTENANCE AND REPAIR BEFORE THE GROUND FREEZES.

2. PUT IN PLACE ANY ADDITIONALLY NECESSARY EROSION CONTROL MEASURES; DIVERSION DIKES, HAY BALES, SILT FENCE, SEDIMENT TRAPS AND/OR BASINS, ETC. TO PROTECT DOWNSTREAM WATER QUALITY FROM ANTICIPATED WINTER WORK PRIOR TO GROUND FREEZING.

3. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH 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 INSTALLATION 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.

4. ALL DITCHES OR SWALES THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH OR THAT ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

5. 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.

6. INSPECT THE EROSION AND SEDIMENT CONTROL MEASURES MORE FREQUENTLY THAN IS SPECIFIED IN THE EROSION CONTROL INSPECTION, MONITORING, AND MAINTENANCE SPECIFICATIONS FOUND ON THIS SHEET DURING THE WINTER AND SPRING THAW MONTHS TO PREVENT FAILURE AND/OR OVERLOADING.

7. BEFORE PREDICTED THAWS AND/OR HEAVY RAIN EVENTS CHECK ALL MEASURES TO ENSURE THAT THEY WILL BE ABLE TO HANDLE POTENTIALLY HEAVY AND INTENSE RUNOFF AND SEDIMENTATION.

8. CONTRACTOR SHALL BE PREPARED TO INSTALL A SECOND LINE OF DEFENSE IF PROBLEMS WITH IN-PLACE EROSION CONTROL MEASURES OCCUR DURING WINTER THAW AND SPRING RAIN EVENTS.

9. AS EARLY AS PRACTICAL AT THE BEGINNING OF THE NEXT GROWING SEASON, CONTRACTOR SHALL STABILIZE COMPLETED AREAS WITH PERMANENT VEGETATIVE CONTROLS AS SPECIFIED ON THESE DRAWINGS.

EROSION CONTROL – SOIL STOCKPILE PRACTICES:

1. STOCKPILES SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES, AND INLETS.

2. STOCKPILES SHALL BE PROTECTED FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS, OR OTHER APPROVED PRACTICE.

3. STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

4. STOCKPILES SHALL BE PROTECTED FROM WIND EROSION CONTROL PRACTICES AS APPROPRIATE.

5. PROTECTION OF INACTIVE STOCKPILES:
    5.1. COVER WITH ANCHORED TARPS OR PROTECT WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS AT ALL TIMES.
    5.2. CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND OTHER SIMILAR MATERIALS TO BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY ARE TO BE COVERED.

6. PROTECTION OF ACTIVE STOCKPILES:
    6.1. SURROUND WITH TEMPORARY LINEAR SEDIMENT BARRIERS PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS TO BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER TO BE INSPECTED AT THE END OF EACH WORKING DAY.

    6.2. WHEN A STORM EVENT IS PREDICTED, STOCKPILES TO BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

7. MAINTENANCE REQUIREMENTS:
    7.1. INSPECT ALL SOIL STOCKPILES IMMEDIATELY AFTER STORM EVENTS AND AT THE FREQUENCIES SPECIFIED IN THE PROJECT EROSION AND SEDIMENT CONTROL PLAN AND IN APPLICABLE PERMITS. AT A MINIMUM, INSPECT WEEKLY DURING WET WEATHER PERIODS TO VERIFY THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND FUNCTIONING PROPERLY.

    7.2. REPAIR AND/OR REPLACE PERIMETER CONTROLS AND STOCKPILE COVERINGS AS NEEDED TO KEEP THEM FUNCTIONING PROPERLY.

EROSION CONTROL – TEMPORARY VEGETATED SPECIFICATIONS:

TEMPORARY VEGETATIVE COVER SHOULD BE APPLIED WHERE EXPOSED SOIL SURFACES WILL NOT BE FINAL GRADED WITHIN 45 DAYS FROM INITIAL DISTURBANCE. SUCH AREAS INCLUDE EXCAVATED AREAS, SOIL STOCKPILES, BERMS, EMBANKMENTS AND SIDES OF SEDIMENT BASINS, TEMPORARY ROAD BANKS, AND OTHER EARTHWORKS.

1. SITE PREPARATION:
    1.1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

    1.2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

    1.3. RUNOFF SHOULD BE DIVERTED FROM THE SEEDED AREA.

    1.4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHOULD INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

2. SEEDBED PREPARATION:

    2.1. STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

    2.2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

    2.3. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING SEASON.

        2.3.1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 600 POUNDS PER ACRE OR 13.8 POUNDS PER 1,000 SQUARE FEET OF LOW PHOSPHATE FERTILIZER1 (N-P205-K20) OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET).

        2.3.2. FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE (LESS THAN 2% PHOSPHORUS), SLOW RELEASE NITROGEN (AT LEAST 50% SLOW RELEASE COMPONENT) FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25 FEET OF A SURFACE WATER BODY. THESE LIMITATIONS ARE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

3. SEEDING:
    3.1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2-INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.

    3.2. TEMPORARY SEEDING SHOULD TYPICALLY OCCUR PRIOR TO SEPTEMBER 15TH.

    3.3. AREAS SEEDED BETWEEN MAY 15TH AND AUGUST 15TH SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE.

    3.4. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR WINTER PROTECTION.

    3.5. RECOMMENDED SEEDING:

SPECIES	LBS/Ac	LBS/1k S.F.	REMARKS
WINTER RYE	112	2.5	FALL SEEDING (8/15–9/15). SEED TO A 1" DEPTH.
OATS	80	2.0	SPRING SEEDING (4/15–5/15). SEED TO A 1" DEPTH.
ANNUAL RYEGRASS	40	1.0	EARLY SPRING/FALL SEEDING. 1/4" COVER OVER SEED.
PERENNIAL RYEGRASS	30	0.7	SUMMER/FALL SEEDING. SEED TO 1/2" DEPTH.

4. MAINTENANCE REQUIREMENTS
    4.1. TEMPORARY SEEDING SHOULD BE INSPECTED WEEKLY AND AFTER ANY RAINFALL EXCEEDING ½ INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES.

    4.2. TEMPORARY SEEDING SHOULD BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.

    4.3. BASED ON INSPECTION, AREAS SHOULD BE RESEEDED 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.

    4.4. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.

    4.5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEEDED, WITH OTHER TEMPORARY MEASURES (E.G., MULCH) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

EROSION CONTROL – PERMANENT VEGETATED SPECIFICATIONS:

1. SITE PREPARATION:

    1.1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

    1.2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

    1.3. RUNOFF SHOULD BE DIVERTED FROM THE SEEDED AREA.

    1.4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHOULD INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

2. SEEDBED PREPARATION:
    2.1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

    2.2. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE, CLODS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.

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

    2.4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

    2.5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING SEASON.

        2.5.1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 600 POUNDS PER ACRE OR 13.8 POUNDS PER 1,000 SQUARE FEET OF LOW PHOSPHATE FERTILIZER1 (N-P205-K20) OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET).

        2.5.2. FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE (LESS THAN 2% PHOSPHORUS), SLOW RELEASE NITROGEN (AT LEAST 50% SLOW RELEASE COMPONENT) FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25 FEET OF A SURFACE WATER BODY. THESE LIMITATIONS ARE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

3. SEEDING:
    3.1. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE AND AMOUNT OF INOCULANT.

    3.2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM ¼ TO ½ INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.

    3.3. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.

    3.4. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHOULD BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDED IN LATER SUMMER, AT LEAST 35% OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING PRACTICE," AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

        3.4.1. TEMPORARY SEEDING SHOULD TYPICALLY OCCUR PRIOR TO SEPTEMBER 15TH.

        3.4.2. AREAS SEEDED BETWEEN MAY 15TH AND AUGUST 15TH SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE PRESENTED IN THE "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL VOLUME 3 – CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS".

    3.5. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION, AND COMPLETE PERMANENT SEED STABILIZATION DURING THE NEXT GROWING SEASON.

4. HYDROSEEDING:
    4.1. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

    4.2. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO 1 FOOT VERTICALLY).

    4.3. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.

    4.4. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.

    4.5. RECOMMENDED SEEDING:

SPECIES	LBS/Ac	LBS/1k S.F.
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
REDTOP	2	0.05
	42	0.95 TOTAL

5. MAINTENANCE REQUIREMENTS
    5.1. PERMANENT SEEDED AREAS SHOULD BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTIONS, MAINTENANCE, AND CORRECTIVE ACTIONS SHOULD CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.

    5.2. SEEDED AREAS SHOULD BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION, WITH MOWING HEIGHT AND FREQUENCY DEPENDENT ON TYPE OF GRASS COVER.

    5.3. BASED ON INSPECTION, AREAS SHOULD BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.

    5.4. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.

    5.5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEEDED, WITH OTHER TEMPORARY MEASURES (E.G., MULCH) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

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RANDOLPH, VT
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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	95% FINAL REVIEW SET	DUP	MTO
2	10/26/2015	PREOGRESS SET FOR BUDGET UPDATE	DUP	MTO
1	3/4/2015	ADD SHEETS C1.5-1.8	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DETAILS

DRAWN BY	DATE
DUP	FEB 2015
CHECKED BY	D&K PROJECT #
JAA	323146P
PROJ. ENG.	D&K ARCHIVE #
MTO	

DRAWING NO.

C1.5

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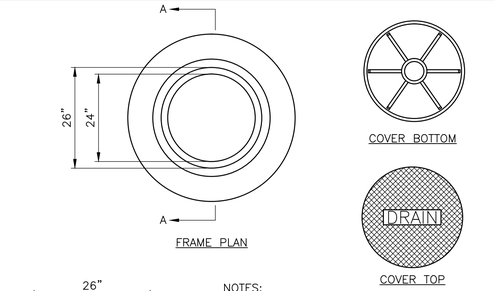
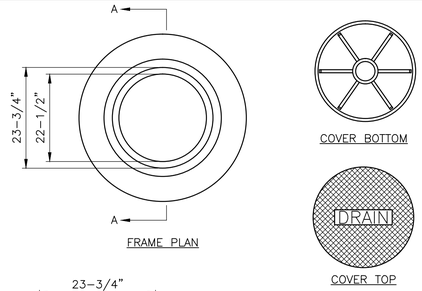


NOTES:

1. COVERS AND FRAMES TO BE CAST IRON
2. SUPPLIER SHALL CERTIFY THAT THE COVER AND FRAME ARE CAPABLE OF SUPPORTING H–20 WHEEL LOADS

DRAIN MANHOLE COVER AND FRAME DETAIL

NOT TO SCALE

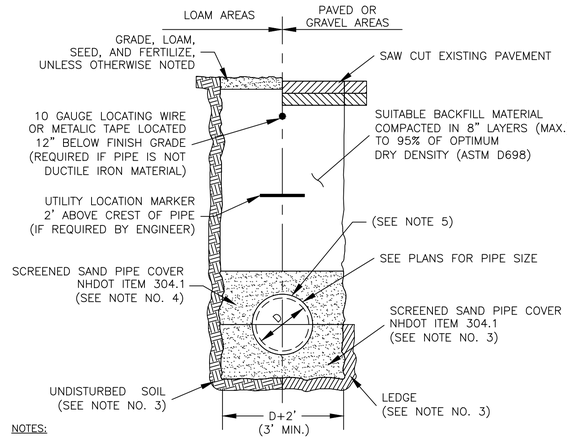


NOTES:

1. COVER AND FRAME TO BE NEENAH FOUNDRY R–1470–EB BOLTED AND GASKETED SOLID LID.

BURIED DRAIN MANHOLE COVER AND FRAME DETAIL

NOT TO SCALE

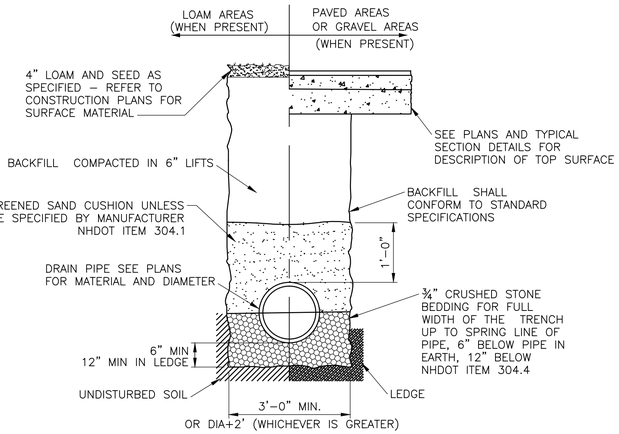


NOTES:

1. ALL MATERIALS SHALL MEET APPLICABLE AWWA SPECIFICATIONS
2. ALL EXCAVATION MUST MEET OSHA STANDARDS
3. BEDDING MATERIAL SHALL BE FULL WIDTH OF TRENCH. BEDDING MATERIAL SHALL BE 6" BELOW PIPE (IN EARTH) OR 12" BELOW PIPE (IN LEDGE) UP TO SPRING LINE OF PIPE.
4. SAND COVER/CUSHION MATERIAL SHALL BE FULL WIDTH OF TRENCH. SAND MATERIAL SHALL BE FROM SPRING LINE UP TO 12" (MINIMUM) ABOVE CREST OF PIPE.
5. ALL WATER MAINS AND SERVICES SHALL MAINTAIN A MINIMUM COVER OF 5'–6". IN THE EVENT THAT MINIMUM COVER IS NOT FEASIBLE, PIPES 2–INCHES OR LESS IN DIAMETER SHALL BE INSULATED WITH A MINIMUM OF 2" RIGID WRAP–AROUND INSULATION WITH PVC JACKET.

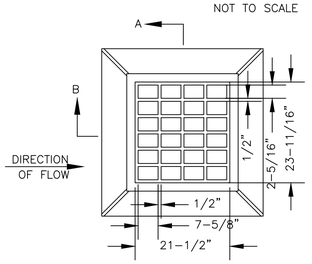
WATER MAIN/SERVICE PIPE TRENCH DETAIL

NOT TO SCALE



PIPE TRENCH DETAIL

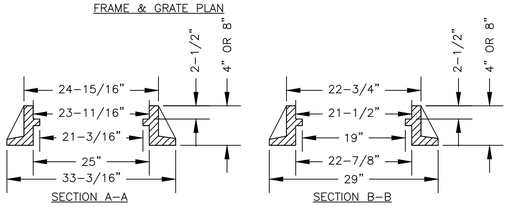
NOT TO SCALE



NOTES:

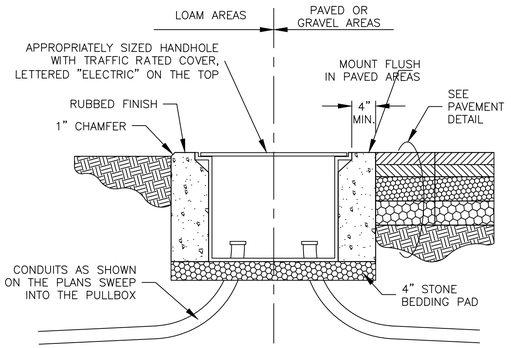
1. FRAMES AND GRATES SHALL BE NHDOT TYPE 'B'.
2. GRATES AND FRAMES TO BE CAST IRON.
3. SUPPLIER SHALL CERTIFY THAT THE GRATE/FRAME ARE CAPABLE OF SUPPORTING H–20 WHEEL LOAD.

FRAME & GRATE PLAN



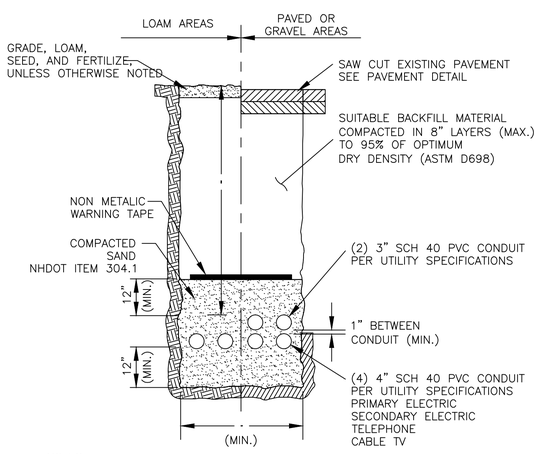
GRATE AND FRAME DETAIL

NOT TO SCALE



PULLBOX DETAIL

NOT TO SCALE

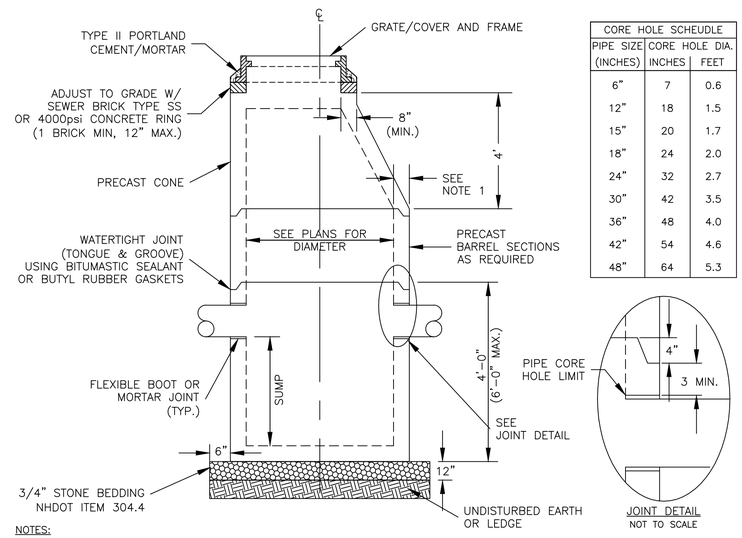


NOTES:

1. ALL EXCAVATION MUST MEET OSHA STANDARDS
2. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS

UTILITY TRENCH DETAIL

NOT TO SCALE



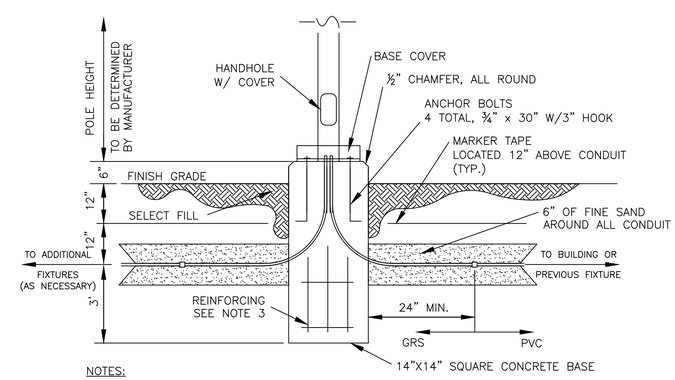
CORE HOLE SCHEUDLE		
PIPE SIZE (INCHES)	CORE HOLE DIA. INCHES	CORE HOLE DIA. FEET
6"	7	0.6
12"	18	1.5
15"	20	1.7
18"	24	2.0
24"	32	2.7
30"	42	3.5
36"	48	4.0
42"	54	4.6
48"	64	5.3

NOTES:

1. PRECAST SECTIONS SHALL BE REINFORCED AND BE 5" THICK FOR A 4' DIAMETER STRUCTURE, 6" THICK FOR A 5' DIAMETER STRUCTURE, 7" THICK FOR A 6' DIAMETER STRUCTURE AND 9" THICK FOR A 8' DIAMETER STRUCTURE.
2. PRECAST BASE SECTIONS SHALL BE REINFORCED AND CONSIST OF A FLOOR THICKNESS OF 6" THICK FOR A 4' DIAMETER STRUCTURE, 8" THICK FOR A 5' DIAMETER STRUCTURE, 8" THICK FOR A 6' DIAMETER STRUCTURE AND 10" THICK FOR A 8' DIAMETER STRUCTURE.
3. PRECAST SECTIONS SHALL MEET HS–20 LOADING, CONSIST OF CONCRETE THAT IS A MINIMUM OF 4000psi @28 DAYS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C–478; LATEST REVISION.
4. PRECAST SECTIONS SHALL HAVE TONGUE AND GROOVE JOINT 4" HIGH AT AN 11–DEGREE ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
5. PRECAST CONE SECTIONS MAY BE EITHER CONCENTRIC, ECCENTRIC OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES AND NO MORE THAN 75% OF A HORIZONTAL CROSS–SECTION SHALL BE HOLES, INCLUDING NO HOLES SHALL BE LOCATED CLOSER THAN 3" TO JOINTS.
7. OUTSIDE PIPE EDGES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL STRUCTURE.

CATCH BASIN/DRAIN MANHOLE DETAIL

NOT TO SCALE



NOTES:

1. GALVINIZED RIGID STEEL CONDUIT CONTINUES 24" PAST END OF SWEEPS
2. LIGHT POLE GROUND NOT SHOWN; #8 AWG
3. BASE REINFORCING: 12#4 VERTICAL, #3 HORIZONTAL, AT 12" O.C.

POLE MOUNTED FIXTURE BASE DETAIL

NOT TO SCALE

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PROFESSIONAL SEAL

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TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DETAILS

DRAWN BY	DATE
DUP	FEB 2015
CHECKED BY	D&K PROJECT #
JAA	323146P
PROJ. ENG.	D&K ARCHIVE #
MTO	

DRAWING NO.

C1.6

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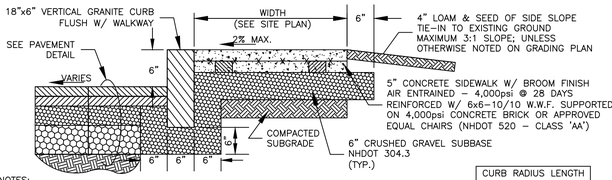


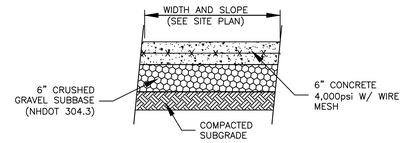
NOTES:

1. SEE SITE PLAN FOR LIMITS OF CURBING
2. MAXIMUM ALLOWABLE SIDEWALK SLOPE IN ALL DIRECTIONS SHALL BE IN ACCORDANCE WITH AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; CROSS–SLOPE SHALL BE NO LESS THAN 1% AND NO GREATER THAN 2%
3. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS
4. ADJOINING STONES SHALL HAVE THE SAME (OR APPROX.) LENGTH
5. MINIMUM LENGTH OF CURB STONES = 3'
6. MAXIMUM LENGTH OF CURB STONES = 10'
7. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES – SEE CHART
8. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER
9. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB–BASE MATERIAL AND REPLACE WITH BANKRUN GRAVEL
10. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL
11. 1/4" RADIUS x 1/2" WIDE x 1/2" DEPTH TOOLED CONTROL JOINTS SHALL BE LOCATED 5' O.C.
12. 1/2" EXPANSION JOINTS SHALL CONFORM TO AASHTO M153, TYPE III OR AASHTO M213 AND BE LOCATED 20' O.C.
13. PROTECTIVE COATING SHALL BE SILANE/SILOXANE AND APPLIED IN ACCORDANCE WITH NHDOT 534.2.2 AND 534.3; RESPECTIVELY

CURB RADIUS LENGTH	
RADIUS	MAX. LENGTH
21'	3'
22'–28'	4'
29'–35'	5'
36'–42'	6'
43'–49'	7'
50'–56'	8'
57'–60'	9'
OVER 60'	10'

CONCRETE SIDEWALK w/ VERTICAL GRANITE CURB DETAIL

NOT TO SCALE



NOTES:

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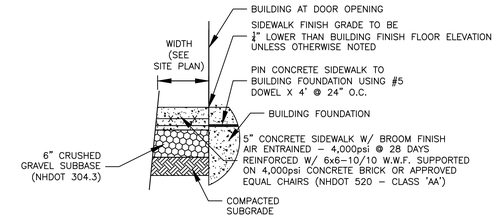
2. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER
3. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB–BASE MATERIAL AND REPLACE WITH BANKRUN GRAVEL
4. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL
5. 1/2" EXPANSION JOINTS SHALL CONFORM TO AASHTO M153, TYPE III OR AASHTO M213 AND BE LOCATED 20' O.C.
6. PROTECTIVE COATING SHALL BE SILANE/SILOXANE AND APPLIED IN ACCORDANCE WITH NHDOT 534.2.2 AND 534.3; RESPECTIVELY

CONCRETE TRUCK APRON SECTION

NOT TO SCALE

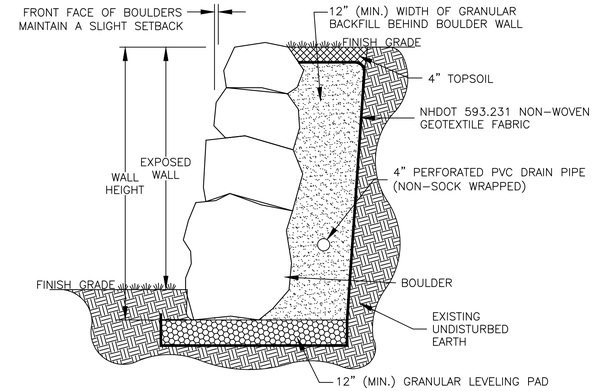


NOTES:

2. MAXIMUM ALLOWABLE SIDEWALK SLOPE IN ALL DIRECTIONS SHALL BE IN ACCORDANCE WITH AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; CROSS–SLOPE SHALL BE NO LESS THAN 1% AND NO GREATER THAN 2%
3. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS
4. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER
5. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB–BASE MATERIAL AND REPLACE WITH BANKRUN GRAVEL
6. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL
7. 1/4" RADIUS x 1/2" WIDE x 1/2" DEPTH TOOLED CONTROL JOINTS SHALL BE LOCATED 5' O.C.
8. 1/2" EXPANSION JOINTS SHALL CONFORM TO AASHTO M153, TYPE III OR AASHTO M213 AND BE LOCATED 20' O.C.
9. PROTECTIVE COATING SHALL BE SILANE/SILOXANE AND APPLIED IN ACCORDANCE WITH NHDOT 534.2.2 AND 534.3; RESPECTIVELY

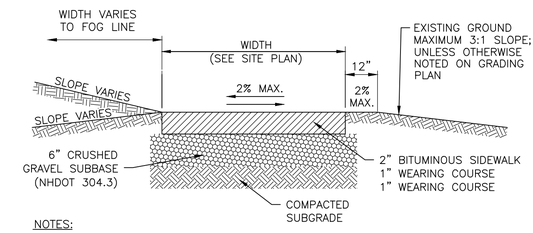
CONCRETE SIDEWALK AT DOOR DETAIL

NOT TO SCALE



BOULDER RETAINING WALL DETAIL

NOT TO SCALE



NOTES:

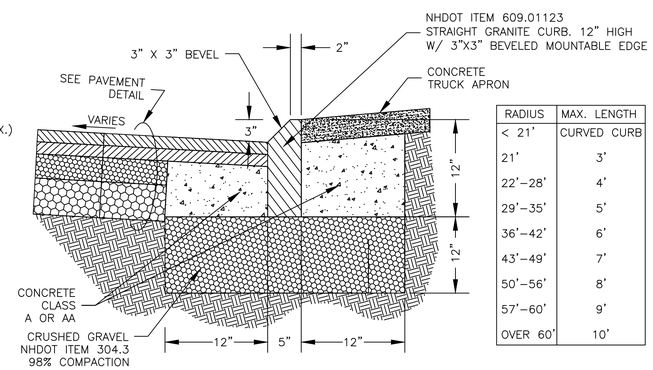
1. MAXIMUM ALLOWABLE SIDEWALK SLOPE IN ALL DIRECTIONS SHALL BE IN ACCORDANCE WITH AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; CROSS–SLOPE SHALL BE NO LESS THAN 1% AND NO GREATER THAN 2%.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS.
3. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
4. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB–BASE.
5. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH BANKRUN GRAVEL MATERIAL.
6. IN NON–CURB AREAS PAVEMENT SUB–BASE MATERIAL SHALL EXTEND 3' BEYOND EDGE–OF–PAVEMENT.

TYPICAL AT GRADE BITUMINOUS SIDEWALK DETAIL

NOT TO SCALE

NOTES:

1. SEE SITE PLAN FOR LIMITS OF CURBING
2. ADJOINING STONES SHALL HAVE THE SAME (OR APPROX.) LENGTH
3. MINIMUM LENGTH OF CURB STONES = 3'
4. MAXIMUM LENGTH OF CURB STONES = 10'
5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES SHALL BE PER THE ABOVE CHART
6. REMOVE ALL UNSUITABLE MATERIAL BELOW PAVEMENT SECTION TO THE SATISFACTION OF THE ENGINEER
7. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB–BASE MATERIAL AND REPLACE WITH BANKRUN GRAVEL



RADIUS	MAX. LENGTH
< 21'	CURVED CURB
21'	3'
22'–28'	4'
29'–35'	5'
36'–42'	6'
43'–49'	7'
50'–56'	8'
57'–60'	9'
OVER 60'	10'

CONCRETE SIDEWALK DETAIL

NOT TO SCALE

NOTES:

1. SEE SITE PLAN FOR LIMITS OF CURBING
2. ADJOINING STONES SHALL HAVE THE SAME (OR APPROX.) LENGTH
3. MINIMUM LENGTH OF CURB STONES = 3'
4. MAXIMUM LENGTH OF CURB STONES = 10'
5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES SHALL BE PER THE ABOVE CHART
6. REMOVE ALL UNSUITABLE MATERIAL BELOW PAVEMENT SECTION TO THE SATISFACTION OF THE ENGINEER
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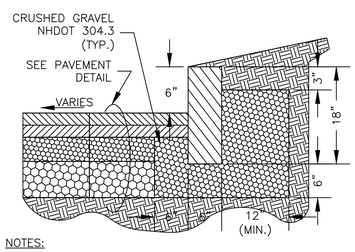

RADIUS	MAX. LENGTH
< 21'	CURVED CURB
21'	3'
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29'–35'	5'
36'–42'	6'
43'–49'	7'
50'–56'	8'
57'–60'	9'
OVER 60'	10'

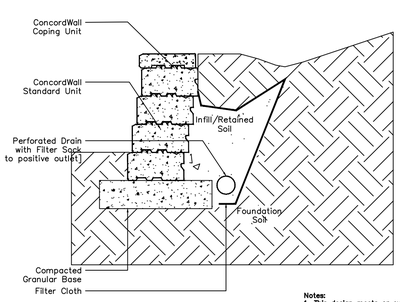
MOUNTABLE GRANITE CURB DETAIL

NOT TO SCALE

VERTICAL GRANITE CURB DETAIL

NOT TO SCALE

TYPICAL SECTION - NOT FOR CONSTRUCTION



Design Specific Geometric Information

Retaining Wall System	ConcordWall	Geogrid Type and Manufacturer	N/A
Maximum Height mm (in)	690 (27)	Minimum Geogrid LTDS kN/m (lb/ft)	N/A
Maximum Slope Above Wall	1V:3H	Maximum Slope Below Wall	None
Max. Surcharge Above Wall kPa (lb/sq.ft)	None	Depth of Embedment mm (in)	153 (6)
Batter of Wall	9.5 °	Compacted Base Dimension mm (in)	610 x 153 (24 x 6)

Design Specific Soil Information

	Soil Region			
	Infill / Retained	Foundation	Base	Drainage
Description (by USCS)	Angular 3/4" clear stone (no fines)	GP GL Inorganic Clays Low Plasticity	GW Well graded, free draining Granular	see infill
Effective Internal Friction Angle	36 °	28 °	39 °	NR
Moist Unit Weight kN/cu.m (lb/cu.ft)	18 (115)	20 (127)	22 (140)	NR
Effective Cohesion kPa (lb/sq.ft)	NR	13 (270)	NR	NR
Soil Notes	Placed in 150mm (6") lifts and compacted to 95% SPD.	Angular drain stone placed at 1H:1V from heel of wall as shown	Allowable bearing cap. must exceed 50kPa (1050 psf).	Crushed Gravel (free draining) compacted to 98% SPD.	Gravel infill must be gap graded, angular, free drain w/ no fines.

NR – Not Required

Notes:
1. This design meets or exceeds the minimum factors of safety required by Risi Stone Systems based on the design parameters listed above. The analysis was performed as outlined in the National Concrete Masonry Association Design Manual for Segmental Retaining Walls, Second Edition. This is a typical, non site–specific Design.
2. No analysis of global stability, total or differential settlement, or seismic effects has been performed.
3. This design is only provided to illustrate the general arrangement of the SRW structure for preliminary costing and feasibility purposes only. This drawing is not for construction. A qualified Engineer must be retained to provide the Final Design prior to construction.
4. Structures such as handrails, guardrails, fences, terraces, and site conditions such as water applications, drainage and soil conditions, additional live and dead loads, etc., have significant effects on the wall design and have not been taken into account in this typical section. When accounted for in the Final Design, other conditions and elements may result in additional design measures (geogrid, drainage, etc) and cost.

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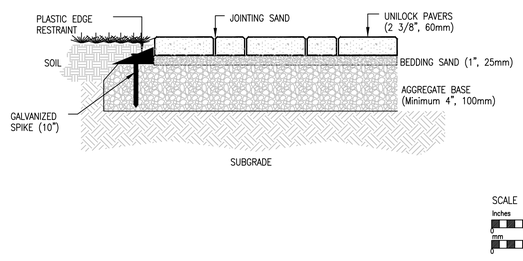
ConcordWall®
Retaining Wall Gravity Section
690mm (2.26ft)
Site: 3H:1V Slope–Clays
Infill: Granular
CW1GBSAI069

NOTE:
MODULAR WALLS TO BE DESIGNED BY WALL VENDOR. THESE DETAILS ARE GENERAL AND FOR INFORMATIONAL PURPOSES ONLY. WALL DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN NEW HAMPSHIRE.



PEDESTRIAN APPLICATION
Plastic Edging

This cross section is intended for preliminary design purposes only. A qualified professional Engineer should approve the final design and confirm site conditions.

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PAVER DETAIL
Cross Section

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1	3/4/2015	ADD SHEETS C1.5–1.8	MEF	MTO

TOWN OF BARRINGTON
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BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DETAILS

DRAWN BY DUP	DATE FEB 2015
CHECKED BY JAA	D&K PROJECT # 323146P
PROJ. ENG. MTO	D&K ARCHIVE #

DRAWING NO.

C1.7

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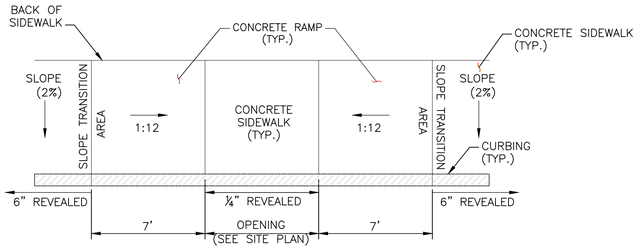
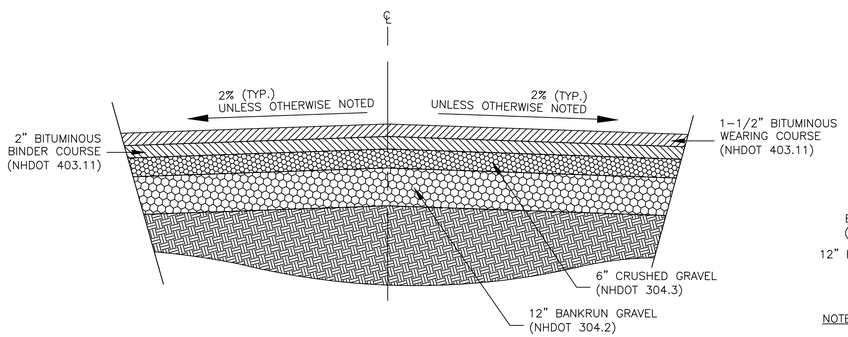


SIDEWALK RAMP (BOX-STYLE) DETAIL
NOT TO SCALE

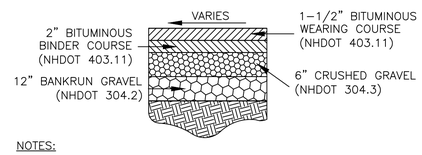
TRAFFIC SIGNAGE SCHEDULE									
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		COLOR			QUANTITY
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	BACKGROUND	LEGEND	BORDER	
R1-1 (TYPE C)	30"	30"	STOP	PER MUTCD STANDARD		PER MUTCD STANDARD			2
R7-8 (TYPE C)	12"	18"	RESERVED PARKING						3
R7-8A (TYPE CC)	18"	9"	VAN ACCESSIBLE						3



NOTES:

1. REMOVE ALL UNSUITABLE MATERIAL BELOW PAVEMENT SECTION TO THE SATISFACTION OF THE ENGINEER.
2. ITEM NO'S REFER TO THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION".

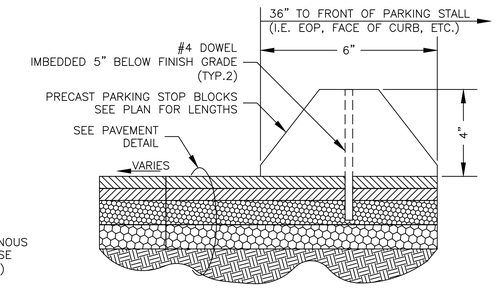
TYPICAL DRIVEWAY SECTION DETAIL
NOT TO SCALE



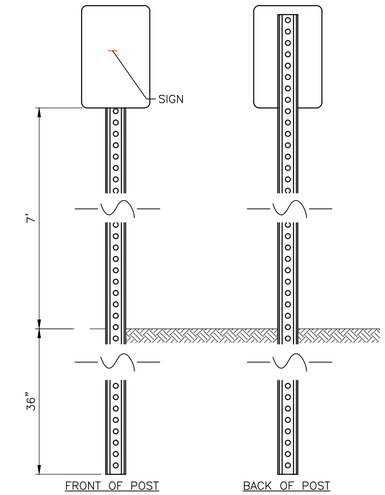
NOTES:

1. REMOVE ALL UNSUITABLE MATERIAL BELOW PAVEMENT SECTION TO THE SATISFACTION OF THE ENGINEER.
2. IN NON-CURB AREAS PAVEMENT SUB-BASE MATERIAL SHALL EXTEND 3' BEYOND EDGE-OF-PAVEMENT.

PARKING LOT PAVEMENT DETAIL
NOT TO SCALE



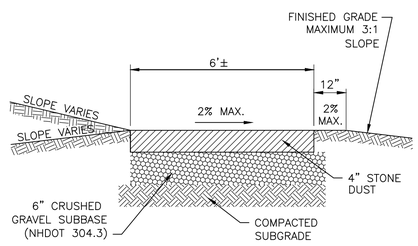
PRECAST WHEEL STOP BLOCK DETAIL
NOT TO SCALE



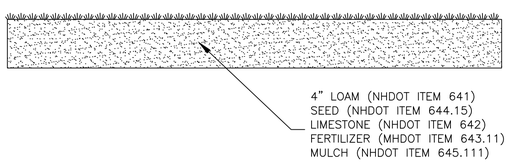
NOTES:

1. STEEL "U" POSTS AND HARDWARE SHALL BE IN ACCORDANCE WITH NHDOT SECTION 615.
2. ALL POSTS SHALL BE INSTALLED PLUMB AND DRIVEN TO DEPTH IDENTIFIED ABOVE. POST SPLICING IS NOT ALLOWED.

STEEL "U" POST DETAIL
NOT TO SCALE



STONEDUST WALKWAY DETAIL
NOT TO SCALE



TYPICAL LOAM AND SEED DETAIL
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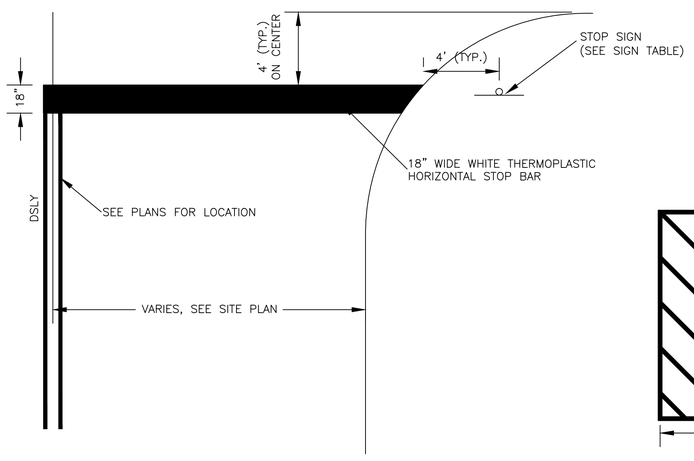
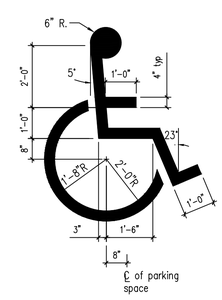
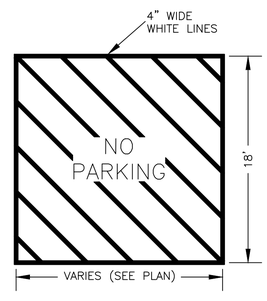


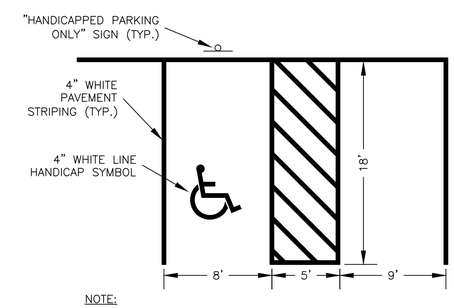
STOP BAR WITH CROSSWALK MARKING DETAIL
NOT TO SCALE



HANDICAP SYMBOL DETAIL
NOT TO SCALE



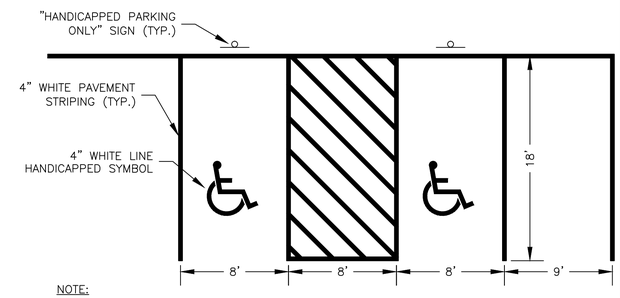
PAVEMENT MARKING DETAIL
NOT TO SCALE



NOTE:

1. ALL PAVEMENT MARKINGS/STRIPING SHALL CONFORM TO LOCAL AND STATE REGULATIONS.

HANDICAP & STANDARD PARKING PAVEMENT MARKING DETAIL
NOT TO SCALE



NOTE:

1. ALL PAVEMENT MARKINGS/STRIPING SHALL CONFORM TO LOCAL AND STATE REGULATIONS.

MULTI-HANDICAP & STANDARD PARKING PAVEMENT MARKING DETAIL
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CHECKED BY	D&K PROJECT #
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PROJ. ENG.	D&K ARCHIVE #
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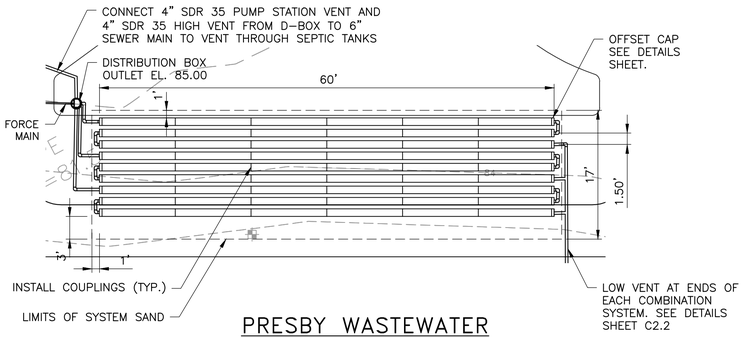
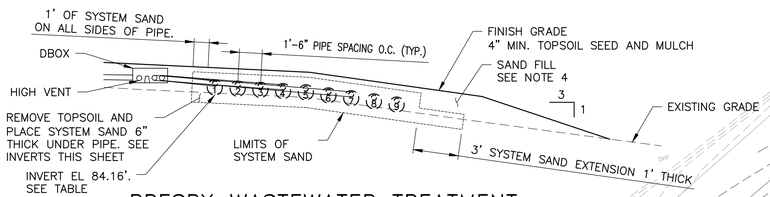


PRESBY WASTEWATER TREATMENT LEACHFIELD PLAN

10 5 0 10



PRESBY WASTEWATER TREATMENT LEACHFIELD SECTION

5 2.5 0 5

PRESBY PIPE INVERTS

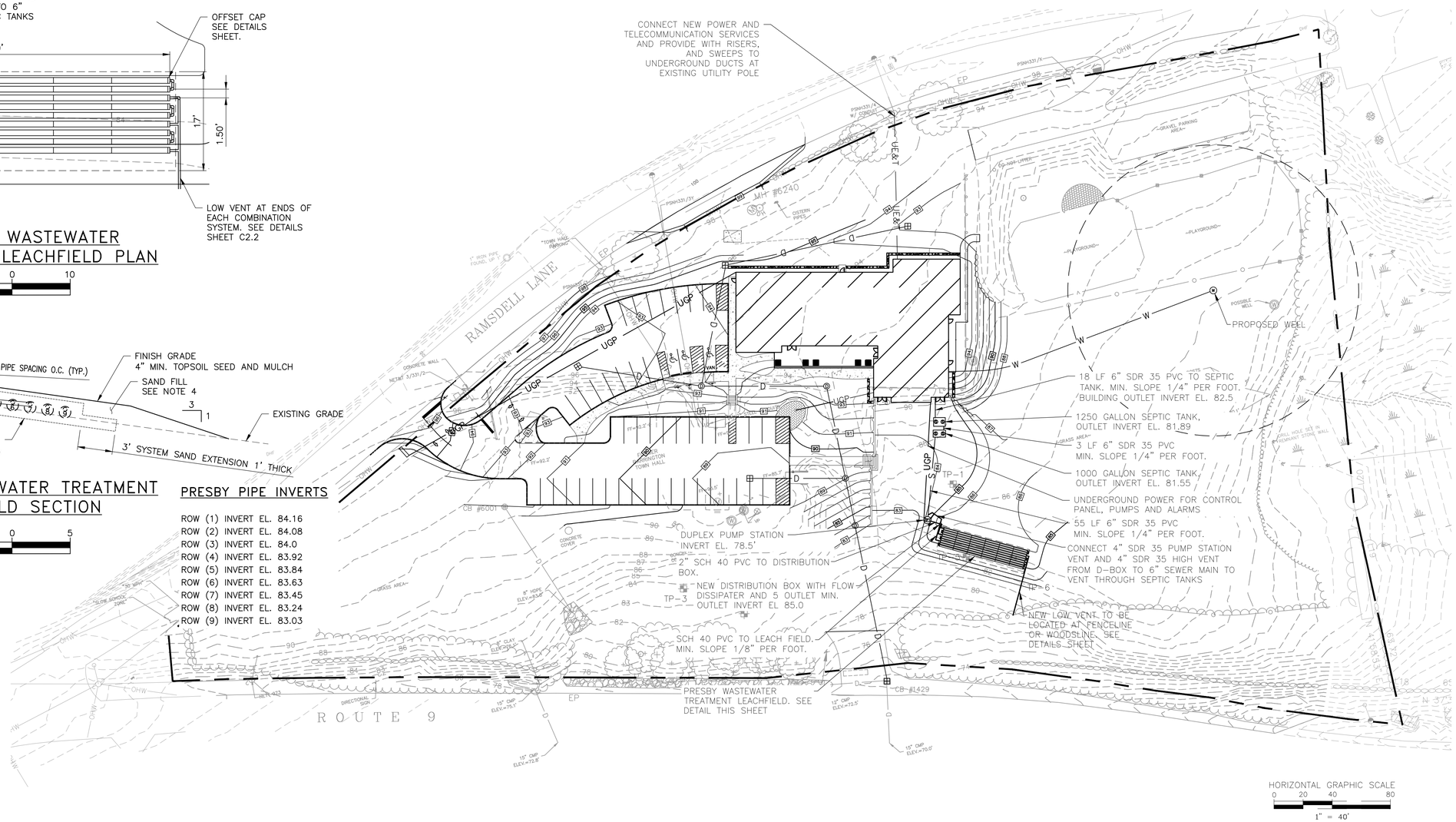
ROW (1) INVERT EL. 84.16
ROW (2) INVERT EL. 84.08
ROW (3) INVERT EL. 84.0
ROW (4) INVERT EL. 83.92
ROW (5) INVERT EL. 83.84
ROW (6) INVERT EL. 83.63
ROW (7) INVERT EL. 83.45
ROW (8) INVERT EL. 83.24
ROW (9) INVERT EL. 83.03

TEST PIT LOGS

TP-1 FINE SANDY LOAM 0" TO 6"
VERY FINE SANDY LOAM 6" TO 17"
FINE SANDS AND GRAVELS 17" TO 32"
SANDY LOAM 32" TO 63"
SHWT @ 32"

TP-5 FINE SANDY LOAM 0" TO 7"
VERY FINE SANDY LOAM 7" TO 17"
FINE SANDS AND GRAVELS 17" TO 32"
VERY FINE SAND 32" TO 60"
SHWT @ 32"

TP-6 FINE SANDY LOAM 0" TO 6"
VERY FINE SANDY LOAM 6" TO 17"
FINE SANDS AND GRAVELS 17" TO 32"
VERY FINE SAND 32" TO 48"
SHWT @ 32"



BASIS OF DESIGN – THE PRESBY WASTEWATER TREATMENT SYSTEM – ENVIRO SEPTIC (ES)

1. DESIGN FLOW = CALCULATED 1025 GPD
2. SEPTIC TANK SIZING
   VOLUME OF TANK WILL BE TWO TIMES DAILY FLOW
   USE: (1) 1,250 GALLON PRECAST CONCRETE TANK
   (1) 1,000 GALLON PRECAST CONCRETE TANK
3. PERCOLATION RATE USE: 3 MIN PER INCH
4. SYSTEM TYPE
   USE: PRESBY WASTEWATER TREATMENT – ENVIRO SEPTIC (ES) – COMBINATION SERIAL SYSTEM – RAISED SLOPING
5. SYSTEM DESIGN
   PRESBY ENVIRO SEPTIC PIPE: (ES)
   USE: 9 ROWS OF 60' LENGTH SPACED AT 1'-6" ON CENTER

DESIGN AND CONSTRUCTION NOTES:

1. THIS SYSTEM IS DESIGNED FOR TOWN OF BARRINGTON NH, TOWN OFFICES.
2. THE WASTEWATER SYSTEM CONSISTS OF TWO SEPTIC TANKS IN SERIES, A DUPLEX PUMP STATION, AND PRESBY WASTEWATER TREATMENT SYSTEM WITH ENVIRO SEPTIC (ES) PIPE.
3. THE PRESBY WASTEWATER TREATMENT SYSTEM FOR ENVIRO-SEPTIC LEACHING PIPE SYSTEM SHALL BE INSTALLED BY A CONTRACTOR WHO IS CERTIFIED BY PRESBY WASTEWATER TREATMENT SYSTEMS. THE SYSTEM SHALL MEET ALL APPLICABLE REGULATIONS OF THE NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL 19.0 COMBINATION SERIAL DISTRIBUTION (SINGLE LEVEL) ENVIRO-SEPTIC LEACHING SYSTEMS AND THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES.
4. THE SYSTEM SAND SHALL MEET THE REQUIREMENTS OF THE NH DESIGN AND INSTALLATION MANUAL SECTION 30.1. SAND FILL SHALL MEET THE REQUIREMENTS OF SECTION 30.4.
5. SEE NH RULE ENV-WQ 1024.03 USE, REPAIR, AND REPLACEMENT OF INNOVATIVE/ALTERNATIVE TECHNOLOGY.
6. FOR THE PURPOSES OF THE BID, THE CONTRACTOR SHALL CARRY THE PRICE FOR THE FULL INSTALLATION OF THE WELL, CASING, PUMP, ELECTRICAL, CONTROLS, AND APPURTANANCES FOR THE COMPLETE INSTALLATION OF THE SYSTEM BASED ON THE FOLLOWING: TOTAL WELL DEPTH 200 FT., WELL DRILLER YIELD MIN. 5 GPM, AND 100 FT. OF 6" DIA. CASING.
7. CONTRACTOR SHALL COORDINATE WITH WELL DRILLER TO FURNISH AND INSTALL THE FOLLOWING HARDWARE, MATERIALS, AND FITTINGS: A 1 ½ HP STA-RITE PUMP, FINAL SELECTION TO BE DETERMINED AFTER DRILLING OF WELL. 1 ¼" PE4710 NSF61 POTABLE WATER DROP PIPE WITH A FLOMATIC SUBMERSIBLE PUMP CHECK INSTALLED AT PUMP AND AT EVERY 200' OF VERTICAL PIPE LENGTH. PROVIDE ALL FITTINGS AS REQUIRED TO TRANSITION FROM PUMP TO PE PIPE. PITLESS ADAPTER, AND 1 ½" PE4710 WELL SUPPLY MAIN FROM WELL TO BUILDING. COORDINATE WITH GC AND SITE CONTRACTOR TO PROVIDE4" PVC CASING THROUGH FOOTING AND SLAB, AND INSTALLPE PIPE TO 4" ABOVE SLAB. INCLUDE ALL FITTINGS AND ADAPTERS AS REQUIRED. ONCE WELL YIELD HAS BEEN DETERMINED CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO FINALIZE SIZE OF HYDROPNEUMATIC WELL TANK.
8. WATER QUALITY TESTING SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DRINKING WATER AND GROUND WATER PROTECTION DIVISION RULES. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER.
9. COPIES OF THE DRILLER LOG AND DRILLERS YIELD SHALL BE SUBMITTED TO THE ENGINEER AND THE STATE OF NEW HAMPSHIRE, DES, AS REQUIRED.
10. CONTRACTOR TO VERIFY INVERTS OF PRECAST COMPONENTS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCIES TO ENGINEER FOR APPROVAL.
11. HIGH VENT TO BE THROUGH SYSTEM AND OUT BUILDING ROOF.

OPERATION AND MAINTENANCE NOTES:

12. SEPTIC TANK SHOULD BE PUMPED OUT AND CLEANED EVERY THREE YEARS.
13. OWNER IS WARNED THAT GARBAGE DISPOSALS, LAUNDRY BLEACH, ANTI-BACTERIAL SOAP, HAZARDOUS MATERIALS, AND HOUSEHOLD CLEANERS WILL REDUCE THE LIFE OF SEPTIC SYSTEM.
14. IT IS THE OWNER'S RESPONSIBILITY TO BECOME FAMILIAR WITH THESE PLANS IN REGARDS TO THE OVERALL PROJECT AND FUTURE USE OF THE PROPERTY.
15. THE LEACHFIELD SHOULD BE MAINTAINED AS A MOWED LAWN AREA. HEAVY EQUIPMENT SHALL NOT BE ALLOWED ON THE LEACHFIELD AREA PRIOR, DURING OR FOLLOWING CONSTRUCTION.

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1	3/4/2015	GENERAL REVISIONS	MEF	MTO

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WASTEWATER SITE PLAN

DRAWN BY SANZ	DATE FEB 2015
CHECKED BY JAA	D&K PROJECT # 323146P
PROJ. ENG. MTO	D&K ARCHIVE #

DRAWING NO.

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SHEET 12 OF 14

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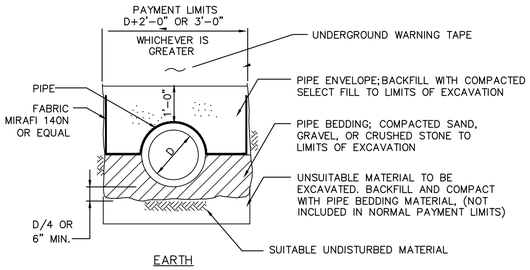
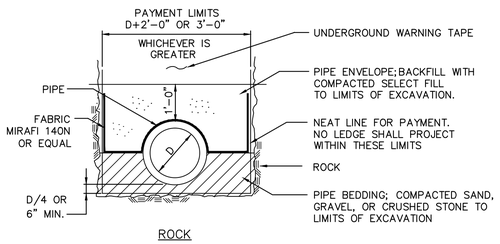


EARTH



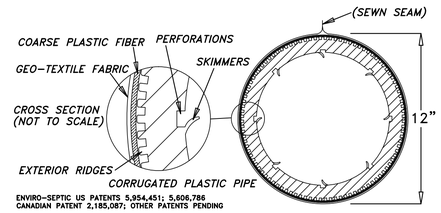
ROCK

NOTE:

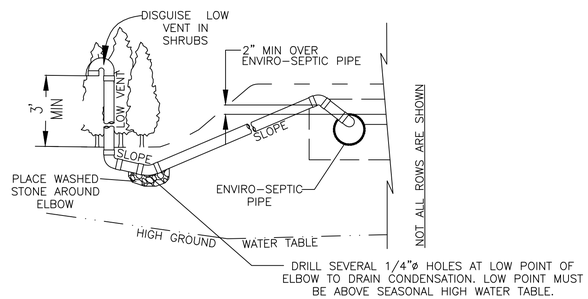
1. PROVIDE 4" RIGID FOAM INSULATION OVER PIPES AT BURIAL DEPTHS WHICH ARE LESS THAN 6'-0".

TYPICAL TRENCH SECTIONS

NOT TO SCALE

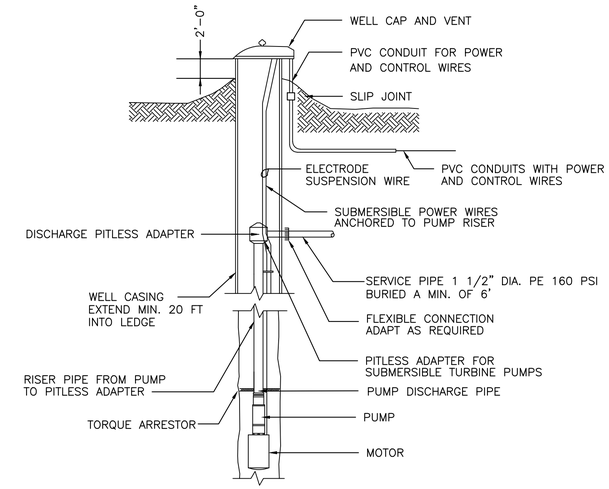


ENVIRO-SEPTIC® LEACHING SYSTEM



LOW VENT DETAIL

NOT TO SCALE



WELL DETAIL

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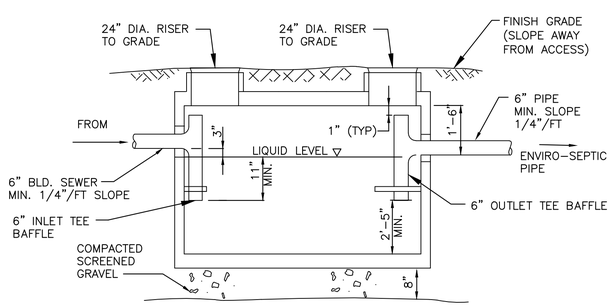


SEPTIC TANK NOTES:

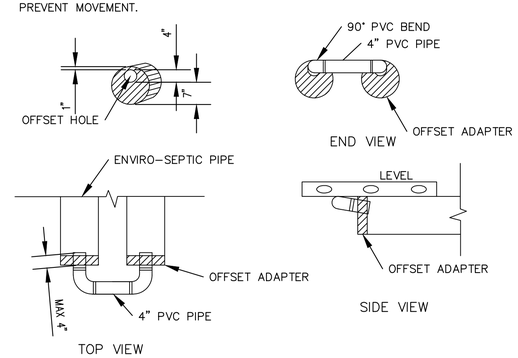
1. ALL JOINTS IN PRECAST SECTIONS TO BE SEALED WATERTIGHT WITH FLEXIBLE MASTIC JOINT COMPOUND.
2. PRECAST REINFORCED CONCRETE SECTIONS SHALL BE IN ACCORDANCE WITH ASTM C-478 CONCRETE STRENGTH (fc) (TYPE II CEMENT): 4000 PSI.
3. USE NON-SHRINK GROUT AROUND PIPE OPENINGS.
4. FOR SEPTIC TANK LOCATION SEE SITE PLAN.

PRECAST SEPTIC TANK DETAIL

NOT TO SCALE

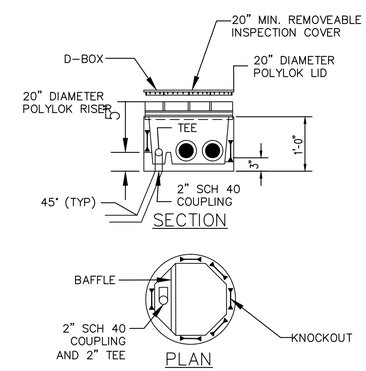
INSTALLATION NOTES:

1. INSERT PVC PIPE NO MORE THAN 4-INCHES INTO THE OFFSET ADAPTER TO PREVENT AIR LOCKING.
2. INSTALL THE RAISED CONNECTION SO THAT THE TOP OF THE 90° BEND IS LEVEL WITH THE TOP OF THE OFFSET ADAPTER.
3. PACK SAND UNDER AND AROUND THE RAISED CONNECTION TO PREVENT MOVEMENT.



RAISED CONNECTIONS

NOT TO SCALE



THE DISTRIBUTIOIN BOX SHALL BE SET LEVEL AND ARRANGED SO THAT THE EFFLUENT IS EVENLY DISTRIBUTED TO EACH DISTRIBUTION LINE. EACH DISTRIBUTION LINE SHALL CONNECT INDIVIDUALLY TO THE DISTRIBUTION BOX AND EXIT AT THE SAME SLOPE FOR THE FIRST FIVE FEET FROM THE BOX. ALL CONNECTIONS SHALL BE SEALED WATERTIGHT WITH NON-SHRINK GROUT.

5 OUTLET DISTRIBUTION BOX

NOT TO SCALE

DuBois & King inc.
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SPRINGFIELD, VT

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	95% FINAL REVIEW SET	DUP	MTO
2	10/26/2015	PROGRESS SET FOR BUDGET UPDATE	DUP	MTO
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

WASTEWATER DETAILS

DRAWN BY	DATE
SANZ	FEB 2015
CHECKED BY	D&K PROJECT #
JAA	323146P
PROJ. ENG.	D&K ARCHIVE #
MTO	

DRAWING NO.

C2.2

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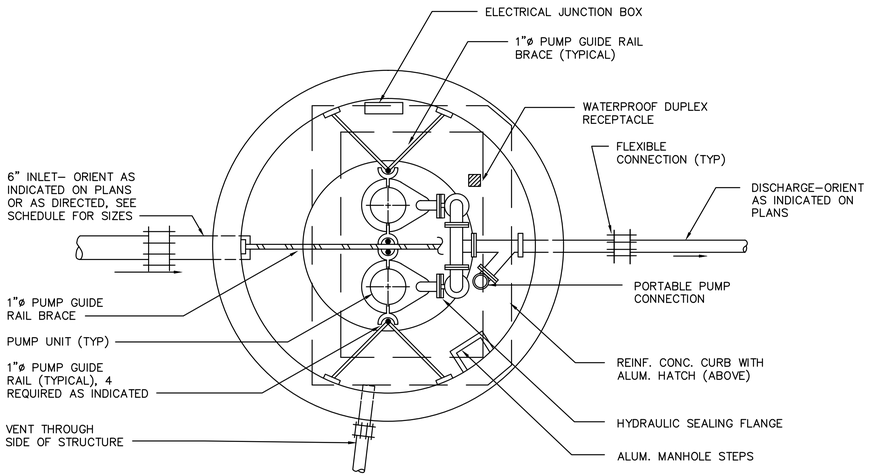
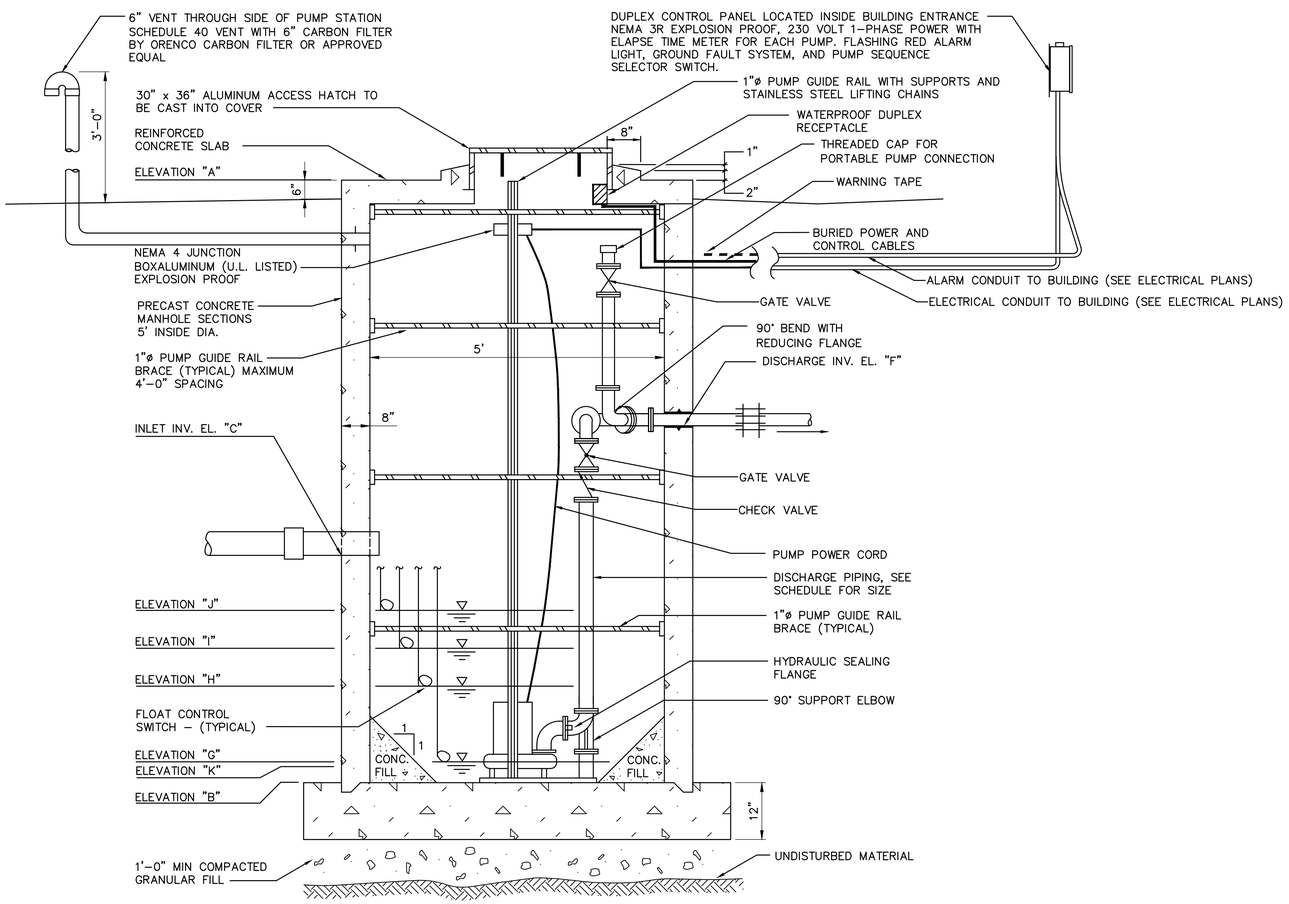


PLAN
NOT TO SCALE



SECTION
NOT TO SCALE

DESIGN NOTES:

ALARM SYSTEMS

1. ALARM SYSTEMS SHALL BE PROVIDED FOR ALL SEWAGE PUMPING STATIONS.

2. THE ALARM SIGNAL SHALL BE ACTIVATED IN ONE OF THE FOLLOWING CASES:
   A. HIGH WATER IN THE WET WELL
   B. LOW WATER IN THE WET WELL
   C. LOSS OF ONE OR MORE PHASES OF POWER SUPPLY OR SEVERE VOLTAGE DROP.
   D. LOSS OF ALARM TRANSMISSION LINE.
   E. STANDBY GENERATOR APPLICATION.

3. THE HIGH WATER ALARM TRIGGER SHALL BE SEPARATE DEVICE, INDEPENDENT OF THE PUMP WET WELL LEVEL CONTROL SYSTEM.

4. SATISFACTORY OPERATION OF THE ALARM SYSTEM SHALL BE INDICATED ON A PANEL WITH A LIGHT WHICH LIGHTS UP UPON FAILURE OF THE ALARM SYSTEM.

5. THE POWER SOURCE FOR THE ALARM SYSTEM SHALL BE:
   A. AN INDEPENDENT BATTERY WITH A CONTINUOUS CHARGE OR:
   B. MAIN LINE POWER WITH A BACK–UP BATTERY SYSTEM, WHICH SHALL BE CONNECTED AUTOMATICALLY SHOULD MAIN POWER FAIL.

6. THE ALARM SHALL INCLUDE A LOCAL AUDIBLE ENUNCIATOR AND LIGHT.

7. PROVISION SHALL BE MADE TO PERMIT SILENCING OF THE AUDIBLE ENUNCIATOR MANUALLY, AFTER THE ALARM HAS BEEN SOUNDED, BUT THE LIGHT SHALL CONTINUE UNTIL THE ALARM CONDITION HAS BEEN RECTIFIED.

INSTRUCTION AND EQUIPMENT

8. THE OWNER SHALL MAINTAIN A COMPLETE SET OF OPERATIONAL INSTRUCTIONS, INCLUDING RECOMMENDATION FOR SPARES AND MAINTENANCE FOR THE SEWAGE PUMPING STATION SO AS TO BE AVAILABLE TO ALL OPERATORS.

EMERGENCY OPERATION

9. THIS SEWAGE PUMPING STATION IS DESIGNED WITH A CAPACITY OF 100 GPM OR LESS AND CAN THEREFORE USE WET WELL STORAGE OVER AND ABOVE NORMAL STORAGE OPERATING SYSTEM STORAGE IN LIEU OF A PERMANENT BACKUP GENERATOR BECAUSE:
   A. THE ADDITIONAL WET WELL STORAGE IS DESIGNED TO PROVIDE AT LEAST 6 HOURS OF FLOW DETENTION AT AVERAGE DAILY FLOW;
   B. A SUITABLE RECEPTACLE SHALL BE INCLUDED IN THE ELECTRICAL SUPPLY PANEL FOR CONNECTION TO A PORTABLE GENERATOR WITH MANUAL TRANSFER; AND,
   C. A SUITABLE RECEPTACLE SHALL BE INCLUDED IN THE ELECTRICAL SUPPLY PANEL FOR CONNECTION TO A PORTABLE PUMP WITH MANUAL TRANSFER.

RECEPTACLE FOR CONNECTION TO AN INDEPENDENT GASOLINE ENGINE–GENERATOR TYPE SOURCE OF ELECTRIC POWER SHALL BE PROVIDED FOR ELECTRICALLY–DRIVEN PUMPS IN THE EVENT THAT POWER SERVICE IS LOST TO PREVENT THE BACK–UP, OVERFLOW, OR OTHER UNPERMITTED DISCHARGE OF WASTEWATER FROM THE SEWAGE PUMPING STATION. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND THE STATE FIRE CODE.

PROVISIONS SHALL BE MADE FOR MANUAL START–UP AND CUT–IN.

THE EMERGENCY POWER GENERATOR SHALL BE SIZED TO SEQUENTIALLY START AND OPERATE ALL PUMPS NEEDED TO HANDLE DESIGN MAXIMUM WASTE FLOWS, PLUS LIGHTING, VENTILATION, AND CONTROLS.

NO SEWAGE PUMPING STATION BY–PASSES ALLOWING THE DISCHARGE OF RAW SEWAGE EITHER OVERLAND OR TO ANY WATER COURSE SHALL BE PERMITTED.

FORCE MAINS

FORCE MAINS SHALL BE CONSTRUCTED WITH MATERIALS AS SPECIFIED IN Env–Wq 704.08, AND TESTED AS SPECIFIED IN Env–Wq 704.09.

THRUST BLOCKS MADE FROM INORGANIC, CORROSION–RESISTANT MATERIAL SHALL BE PLACED AT ALL BENDS, ELBOWS, TEES AND JUNCTIONS.

PUMPS

PUMPS SHALL BE MYERS ME50 ½ HP EFFLUENT PUMPS OR EQUAL, DESIGN POINT 20 GPM @ 20' TDH

GUIDE RAIL SYSTEM

CONTRACTOR SHALL PROVIDE STAINLESS STEEL GUIDE SYSTEM AND HYDRAULIC SEALING FLANGE SETUP IN COORDINATION WITH PUMP MANUFACTURER.

DUPLEX PUMP STATION SCHEDULE	
PUMP STATION LOCATION	–
PUMP STATION DIAMETER (INSIDE)	5 ft
PUMP STATION ACCESS HATCH SIZE	24"x36"
TOP OF SLAB EL. "A"	84.0
BOTTOM OF WET WELL EL. "B"	73.0
SIZE & INVERT INLET EL. "C"	6" 78.5
SIZE & INVERT OUTLET EL. "F"	2" 78.5
LEAD/LAG PUMPS OFF EL. "G"	74.6
LEAD PUMP ON EL. "H"	76.0
LAG PUMP ON EL. "I"	76.5
HIGH WATER ALARM ON EL. "J"	77.0
LOW WATER ALARM ON EL. "K"	74.0
PORTABLE PUMP CONNECTION SIZE	1 1/2"
VENT DIAMETER	6"

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
4	12/11/2015	BID AND CONSTRUCTION SET	DUP	MTO
3	11/23/2015	95% FINAL REVIEW SET, ADDED SHEET C2.3	DUP	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

PUMP STATION DETAILS

DRAWN BY	DATE
SANZ	FEB 2015
CHECKED BY	D&K PROJECT #
JAA	323146P
PROJ. ENG.	D&K ARCHIVE #
MTO	

DRAWING NO.

C2.3

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GENERAL

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
   - 2009 INTERNATIONAL BUILDING CODE
   - ANSI/ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
   - ACI 318-08 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
   - ACI 301-08 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
   - STEEL CONSTRUCTION MANUAL, 13TH EDITION
   - ANSI/AF&PA NDS-2005 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
   - ACI 530-08/ASCE 5-08/TMS 402-08 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES"

   ANY DISCREPANCIES BETWEEN THE ABOVE LISTED CODES AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH AFFECTED WORK.
2. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN THE STATE IN WHICH THE PROJECT IS LOCATED.
3. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.
4. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK.
5. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.
6. THESE DRAWINGS DO NOT SHOW SIZE, LOCATION, OR TYPE OF OPENINGS IN THE FOUNDATION SYSTEM FOR ELECTRICAL, PLUMBING, OR MECHANICAL EQUIPMENT; THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THESE ITEMS.
7. ALL STRUCTURAL RELATED SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. QUANTITY AND DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.
8. REFER TO THESE DRAWINGS, CIVIL DRAWINGS, AND THE GEOTECHNICAL REPORT FOR UNDER-DRAIN AND PERIMETER DRAIN REQUIREMENTS, IF APPLICABLE.
9. ANY AND ALL TEMPORARY BRACING OR SHORING NECESSARY TO HOLD THE STRUCTURE IN A SAFE AND STABLE POSITION UNTIL THE BUILDING IS COMPLETE, IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONSULT AN INDEPENDENT ENGINEER IF DESIGN ASSISTANCE OR REVIEW IS WARRANTED.
10. THE BUILDING PERMIT APPLICANT (e.g. OWNER, CONTRACTOR) MUST PROVIDE SPECIAL INSPECTIONS PER THE REQUIREMENTS OF CHAPTER 17 OF THE 2009 INTERNATIONAL BUILDING CODE AND FURNISH INSPECTION REPORTS TO THE CODE OFFICIAL AND TO THE ENGINEER OF RECORD. THE TESTING/INSPECTION AGENCY(S) MUST BE APPROVED BY THE ENGINEER OF RECORD. SEE SHEET SX.X FOR THE SCHEDULE OF SPECIAL INSPECTIONS.
11. THE ENGINEER, AT HIS/HER OPTION, MAY PROVIDE THE CONTRACTOR WITH ELECTRONIC FILES FOR HIS/HER CONVENIENCE AND USE IN THE PREPARATION OF SHOP DRAWINGS. DATA CONTAINED ON THESE ELECTRONIC FILES ARE THE ENGINEER'S INSTRUMENT OF SERVICE AND MAY NOT BE ELECTRONICALLY COPIED FOR REUSE AS SHOP DRAWINGS. THESE ELECTRONIC FILES ARE NOT CONSTRUCTION DOCUMENTS; THE CONTRACTOR IS NOT RELIEVED OF HIS/HER DUTY TO FULLY COMPLY WITH THE CONTRACT DOCUMENTS, INCLUDING THE NEED TO CONFIRM AND COORDINATE ALL DIMENSIONS AND DETAILS, TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS AND COORDINATE THE CONTRACTOR'S WORK WITH THAT OF OTHER CONTRACTORS FOR THE PROJECT. THE CONTRACTOR MAY NOT MANUALLY ALTER THE HARD COPIES OF THE CONSTRUCTION DOCUMENTS AND REUSE THEM AS SHOP DRAWINGS.

REFERENCE DOCUMENTS

1. ARCHITECTURAL DRAWINGS FOR "BARRINGTON TOWN OFFICES, RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE", PREPARED BY SMP ARCHITECTURE, 30 S. MAIN STREET, BUILDING 2, CONCORD, NH 03301, PREPARED FOR TOWN OF BARRINGTON, NH, DATED OCTOBER 19, 2015.

DESIGN LOADS

1. THE NEW STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2009 EDITION, TO CARRY ALL THE DEAD LOADS OF THE VARIOUS STRUCTURAL AND ARCHITECTURAL SYSTEMS AND THE FOLLOWING LIVE LOADS:

   LIVE

   ASSEMBLY AREA (MOVABLE SEATS) = 100 PSF
   ROOF TRUSSES = SEE NOTES RELATED TO ROOF TRUSS

   SNOW

   BASIC GROUND SNOW LOAD = 70 PSF
   C_e = 1.0
   C_t = 1.1 & 1.2 (AS APPROPRIATE)
   I_s = 1.0 (OCCUPANCY CATEGORY II)

   WIND

   WIND SPEED = 100 MPH
   EXPOSURE "B"
   I_w = 1.0 (OCCUPANCY CATEGORY II)

   SEISMIC

   OCCUPANCY CATEGORY = II
   SITE CLASS "C"
   I_e = 1.0
   S_{DS} = 0.299
   S_{D1} = 0.093
   SEISMIC DESIGN CATEGORY = B
   BASIC SEISMIC-FORCE-RESISTING SYSTEM = BEARING WALL SYSTEM, ORDINARY REINFORCED CONCRETE SHEAR WALLS.
   R = 4, Ω = 2.5, C_d = 4
   ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
2. JSN ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE DESIGN OF STAIR SYSTEM, GUARDRAIL SYSTEM, CURTAIN WALL / WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING SYSTEMS, WOOD OR METAL ROOF & FLOOR TRUSSES OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS MUST BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

SOIL BEARING

1. ALL FOOTINGS SHALL BE CARRIED DOWN TO REST ON UNDISTURBED SOIL OR SHALL BEAR ON SUITABLE FILL MATERIAL AS SPECIFIED ON THE REFERENCED GEOTECHNICAL REPORT. THE UNDERLYING SOILS AND THE FILL SHALL HAVE A MINIMUM SAFE LOAD BEARING CAPACITY OF 4000 PSF.
2. REMOVE ALL EXISTING TOPSOIL, PAVEMENT, ORGANIC MATERIALS, AND OTHER SOIL THAT APPEARS TO BE UNSUITABLE PRIOR TO PREPARING THE FOOTING GRADE.
3. IF ANY ADVERSE SOIL CONDITIONS ARE ENCOUNTERED WHICH EXTEND BELOW FOOTING LEVEL, SUCH AS THOSE LISTED ABOVE, THE GENERAL CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER IMMEDIATELY FOR DETERMINATION OF HOW TO REMEDY THE CONDITION BEFORE CONTINUATION OF THE WORK.
4. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND. ALL EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN TO A MINIMUM OF FOUR (4) FEET BELOW FINISHED, ADJACENT EXTERIOR GRADE.
5. REFER TO GEOTECHNICAL REPORT BY SOVEREIGN CONSULTING INC. DATED DECEMBER 5, 2014 FOR ALL INFORMATION REGARDING EXCAVATION, BACKFILL, STRUCTURAL FILL, SUBGRADE PREPARATION, ETC. IF ANY CONTRADICTING INFORMATION IS FOUND BETWEEN GEOTECHNICAL REPORT AND STRUCTURAL DRAWINGS, GEOTECHNICAL REPORT SHALL GOVERN.

CAST-IN-PLACE CONCRETE

1. ALL WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-08) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301)
2. INTERIOR SLABS ON GRADE TO BE OF THICKNESS SHOWN ON DRAWINGS WITH SECONDARY CONCRETE FIBER REINFORCING. DOSAGE TO BE AS RECOMMENDED BY THE MANUFACTURER.
3. PROVIDE A 10-MIL POLYETHYLENE MOISTURE VAPOR RETARDER DIRECTLY BELOW ALL INTERIOR SLABS ON GRADE, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS. OVERLAP SEAMS A MINIMUM 6" AND TAPE AS REQUIRED TO MAINTAIN POSITION.
4. ALL FOOTINGS ARE TO REST ON UNDISTURBED SOIL OR COMPACTED FILL AS SPECIFIED IN THE REFERENCED GEOTECHNICAL REPORT.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
   - CONCRETE CAST AGAINST EARTH..... 3"
   - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
     #5 BARS AND SMALLER..... 1½"
     #6 BARS AND LARGER..... 2"
6. INCLUSION OF CALCIUM CHLORIDE IS PROHIBITED IN ANY CONCRETE MIX.
7. CONCRETE SHALL BE ADEQUATELY PROTECTED FROM HOT OR COLD WEATHER AS REQUIRED BY ACI PUBLICATIONS 305 AND 306, RESPECTIVELY.
8. ALL CONCRETE FOR WALLS, FOOTINGS, SLABS-ON-DECK AND INTERIOR SLABS-ON-GRADE SHALL BE NORMAL-WEIGHT, 3/4" AGGREGATE AND ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS (U.N.O.).
9. SLAB CONTROL JOINTS, WHERE SHOWN OR INDICATED, SHALL BE SAW CUT IMMEDIATELY AFTER FINISHING. JOINTS SHALL BE AT MINIMUM 1/4 OF THE THICKNESS OF THE SLAB.
10. GENERAL CONTRACTOR MUST SUBMIT A PLAN TO THE ENGINEER INDICATING PROPOSED LOCATIONS OF CONSTRUCTION JOINTS FOR SLABS-ON-GRADE AND/OR SLABS-ON-DECK. ENGINEER, AT HIS OPTION, MAY REJECT, APPROVE OR APPROVE WITH MODIFICATIONS THE LOCATIONS. MODIFICATIONS MAY INCLUDE ADDITION OF REINFORCING BARS & DOWELS. COSTS ASSOCIATED WITH THE SAID MODIFICATIONS WILL BE BORNE BY THE GENERAL CONTRACTOR OR ITS SUBCONTRACTOR(S).
11. WALL CONTROL JOINTS SHALL BE PLACED AS SHOWN ON DRAWINGS OR AT A MAXIMUM OF 40 FEET ON CENTER.
12. BACKFILL BOTH SIDES OF THE FOUNDATION WALLS SIMULTANEOUSLY TO THE MAXIMUM HEIGHT POSSIBLE. IF THE SOIL LEVEL IS NOT EQUAL ON BOTH SIDES OF THE WALL, DO NOT CONTINUE TO BACKFILL THE HIGH SIDE UNTIL THE FLOOR/ROOF FRAMING AND DECK ON THE LOW SIDE ARE INSTALLED, THE SLAB-ON-GRADE IS INSTALLED AND HAS REACHED ITS MINIMUM DESIGN COMPRESSIVE STRENGTH. IF THE DECK IS CONCRETE, IT MUST REACH ITS MINIMUM DESIGN COMPRESSIVE STRENGTH BEFORE THE WALL IS FULLY BACKFILLED. FOUNDATION WALLS SUBJECT TO UNBALANCED FILL HEIGHTS MAY NOT BE FULLY BACKFILLED UNTIL CONCRETE HAS REACHED ITS MINIMUM COMPRESSIVE STRENGTH OR THE G.C. HAS RECEIVED APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD (SEOR).
13. ALL CONCRETE SHALL BE CURED BY AN APPROVED METHOD AS PRESCRIBED BY ACI.
14. MID-RANGE WATER REDUCERS (MRWR) ARE REQUIRED FOR ALL CONCRETE MIXES EXCEPT FOOTINGS.
15. MAXIMUM WATER TO CEMENT RATIO FOR MIXES WITH MRWR:
    FOR 3000 PSI CONCRETE 0.50
    FOR 4000 PSI CONCRETE 0.45

    MAXIMUM WATER TO CEMENT RATIO FOR MIXES WITHOUT MRWR (PERMITTED FOR FOOTINGS ONLY):
    FOR 3000 PSI CONCRETE 0.52
    FOR 4000 PSI CONCRETE 0.48
16. MINIMUM CEMENT QUANTITIES:
    FOR 3000 PSI CONCRETE 517 LB./CY
    FOR 4000 PSI CONCRETE 611 LB./CY
17. MAXIMUM CONCRETE SLUMP:
    FOR MIXES WITHOUT MRWR 4 INCHES
    FOR MIXES WITH MRWR 6 INCHES (3 INCHES PRIOR TO ADDING A WATER REDUCER)
18. USE AIR-ENTRAINING ADMIXTURES IN CONCRETE SUBJECT TO FREEZING AND THAWING, THIS INCLUDES EXTERIOR FOUNDATION WALLS, EXTERIOR PIERS, AND EXTERIOR SLABS. AIR CONTENT AT POINT OF DELIVERY TO BE 6 PERCENT, PLUS OR MINUS 1.5 PERCENT.
19. DO NOT USE AIR-ENTRAINING ADMIXTURES IN CONCRETE FOR INTERIOR SLABS ON GRADE AND SLABS ON STEEL DECK. AIR CONTENT OF TROWELED FINISH FLOORS NOT TO EXCEED 3 PERCENT.
20. REINFORCING BARS AND ALL EMBEDDED ITEMS, INCLUDING ANCHOR BOLTS, MUST BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS PLACED. "WET-STICKING" OF ANCHOR BOLTS, VERTICAL PIER REINFORCING OR VERTICAL WALL REINFORCING IS NOT ACCEPTABLE.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60.
2. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A1064. USE FLAT SHEETS ONLY.
3. ALL REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL.
4. WHERE CONTINUOUS BARS ARE REQUIRED, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS, LAP AT NECESSARY SPLICES, AND SPLICES SHALL BE STAGGERED AND HOOKED AT DISCONTINUOUS ENDS. LAP LENGTHS SHALL BE AS SHOWN OR NOTED ON THE DRAWINGS. IF LAP/SPLICE LENGTHS ARE NOT INDICATED FOLLOW ACI STANDARDS.

SLAB-ON-GRADE CONTROL JOINTS

1. SLAB CONTROL JOINTS SHALL BE SAW CUT IMMEDIATELY AFTER FINISHING. JOINT DEPTH SHALL BE A MINIMUM 1/4 OF THE THICKNESS OF THE SLAB.
2. CONTROL JOINTS IN CONCRETE SLABS ARE GENERALLY SPACED IN A MANNER TO CONTROL CRACK LOCATIONS OCCURRING DUE TO CURING SHRINKAGE AND THERMAL MOVEMENT OF CONCRETE. WELDED WIRE FABRIC DOES NOT INHIBIT CRACKING, BUT HOLDS CONCRETE TIGHTLY TOGETHER AFTER CRACKING HAS OCCURRED. IN ORDER TO BETTER CONTROL RANDOM CRACKING OF CONCRETE THE FOLLOWING MEASURES ARE RECOMMENDED:
   - SUPPLY A WELL COMPACTED AND CONSISTENT SUBGRADE.
   - LIMIT WATER VOLUME IN CONCRETE USING A STIFFER MIX.
   - SUPPLY ADEQUATE CURING MEASURES. WET CURE OR USE CURING SEALERS.
   - LIMIT JOINT SPACING TO 2 TIMES SLAB THICKNESS IN FEET.
2. SLAB CURLING IS ALSO A PROBLEM WHICH HAS BECOME MORE PREVALENT WITH MODERN CONCRETE MIXES WHICH HAVE HIGHER STRENGTHS. THE FOLLOWING MEASURES IN ADDITION TO THOSE STATED ABOVE ARE RECOMMENDED TO LIMIT CURLING OF CONCRETE SLABS-ON-GRADE:
   - CURE THE SLAB PROPERLY.
   - USE HIGHER QUANTITY OF COARSE AGGREGATES IN THE MIX.
   - USE A LOWER AMOUNT OF CEMENT.

STRUCTURAL STEEL

1. STRUCTURAL STEEL WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE.
2. STRUCTURAL STEEL WORK SHALL CONFORM TO "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC CURRENT EDITION)", "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS (AISC CURRENT EDITION)", AND "STRUCTURAL WELDING CODE (AWS D1.1-04)".
3. STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:
   - ROLLED SHAPES AND PLATES - ASTM A36 (EXCEPT AS NOTED BELOW)
   - WIDE FLANGE SHAPES - ASTM A992
   - STRUCTURAL TUBES - ASTM A500, GRADE B
   - ANCHOR RODS - HEADED RODS CONFORMING TO ASTM F1554 GRADE 36 (HEADED BOLTS)
4. ALL BOLTED CONNECTIONS SHALL USE NEW BOLTS. SLIP-CRITICAL BOLTS ARE PROHIBITED FROM ALL CONNECTIONS. SLOTTED BOLT HOLES ARE NOT PERMITTED AT BRACED FRAME CONNECTIONS. ALL BOLTS SHALL BE INSTALLED AS BEARING TO A "SNUG-TIGHTENED" CONDITION, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL BOLTED CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN COMPLIANCE WITH RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", DATED DECEMBER 31, 2009.
5. VOIDS BENEATH COLUMN BASE PLATES SHALL BE DRY PACKED WITH NON-SHRINK CONSTRUCTION GROUT BEFORE APPLICATION OF LOADS.
6. WELDED CONNECTIONS SHALL BE MADE BY AWS QUALIFIED WELDERS USING FILLER MATERIAL CONFORMING TO E70XX, LOW HYDROGEN.
7. PROVIDE TEMPORARY ERECTION BRACING TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN PLACE. MAINTAIN BRACING UNTIL ROOF DECK AND PERMANENT LATERAL BRACING ARE FULLY INSTALLED. BRACING REQUIREMENTS ARE NOT PROVIDED BY THE E.O.R.
8. STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.
9. FIELD CUTTING OF STRUCTURAL STEEL OR ANY MODIFICATIONS SHALL NOT BE MADE WITHOUT APPROVAL BY ENGINEER.
10. ALL CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE FABRICATOR. SHOP DRAWINGS AND STAMPED CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. FABRICATOR'S ENGINEER SHALL BE LICENSED IN THE STATE THE PROJECT IS LOCATED, AND CARRY PROFESSIONAL LIABILITY INSURANCE WITH A MINIMUM PER INCIDENT AND ANNUAL COVERAGE OF $1,000,000.
11. ALL STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF RUST INHIBITIVE PRIMER, UNLESS OTHERWISE DIRECTED BY OWNER. COMPOSITE BEAMS WITH SHEAR STUDS SHALL HAVE UNPAINTED TOP FLANGES TO ALLOW THE WELDING OF SHEAR STUDS. ALL STEEL SCHEDULED TO RECEIVE FIREPROOFING, SHALL NOT BE PRIMED. REFER TO ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR FIREPROOFING LOCATIONS AND REQUIREMENTS.
12. THE STEEL FABRICATOR SHALL BE AISC CERTIFIED, OR BE ABLE TO DEMONSTRATE TO THE ENGINEER'S SATISFACTION THAT ALL AISC PROCEDURES FOR FABRICATION, QUALITY CONTROL, AND RECORD KEEPING ARE STRICTLY ADHERED TO. THE ENGINEER SHALL DETERMINE IF FABRICATOR QUALIFICATIONS ARE ACCEPTABLE.
13. SHOP DRAWINGS SHALL BE PREPARED BY FABRICATOR. PHOTO COPIES OF STRUCTURAL DRAWINGS ARE NOT ACCEPTABLE.
14. THE TESTING AGENCY (TO BE APPROVED BY JSN ASSOCIATES, INC.) MUST PERFORM A VISUAL INSPECTION OF ALL SHOP AND FIELD WELDS. ADDITIONALLY, ALL SHOP AND FIELD FILLET AND PARTIAL PENETRATION WELDS MUST BE SPOT TESTED AT A RATE OF ONE TEST PER MEMBER USING THE MAGNETIC PARTICLE METHOD. ONE HUNDRED PERCENT (100%) OF ALL FIELD AND SHOP FULL PENETRATION WELDS MUST BE TESTED USING THE ULTRASONIC METHOD.
15. ALL HSS COLUMNS SHALL BE SEALED TO PREVENT WATER PENETRATION DURING CONSTRUCTION OR DURING SERVICE AND SHALL BE PROVIDED WITH A DRAIN HOLE NEAR THE BASE ON SIDE OF COLUMN.

STEEL DECKS

1. STEEL FLOOR DECK SHALL BE STANDARD 22 GAGE, GALVANIZED 1½" COMPOSITE DECK AS MANUFACTURED BY "VULCRAFT" (1.5VL22) OR APPROVED EQUAL. UNLESS OTHERWISE NOTED, FASTEN COMPOSITE DECK TO EACH SUPPORT USING 5/8" PUDDLE WELDS IN A 36/4 PATTERN. PROVIDE (1) #10 TEK SCREW PER SPAN FOR SIDELAP FASTENING.
2. FLOOR DECKS MUST SPAN OVER FOUR (4) OR MORE SUPPORTS (i.e. 3-SPAN CONDITION).
3. SHEET STEEL FOR GALVANIZED COMPOSITE FLOOR DECK MUST CONFORM TO ASTM A653-07 "STRUCTURAL QUALITY", GRADE 33 OR HIGHER. GALVANIZING MUST CONFORM TO ASTM A924-07 WITH A MINIMUM COATING CLASS OF G60 AS DEFINED IN A653-07.

GALVANIZING

1. ITEMS EXPOSED TO THE EXTERIOR AND/OR INDICATED ON THE DRAWINGS MUST BE HOT-DIPPED GALVANIZED AFTER FABRICATION. DURAGALV BY DUNCAN GALVANIZING OF EVERETT, MA IS SPECIFIED AS A REFERENCE STANDARD OF QUALITY.
2. PRIOR TO GALVANIZING, THE STEEL MUST BE IMMERSED IN A PRE-FLUX SOLUTION OF ZINC AMMONIUM CHLORIDE. THE USE OF WET KETTLE PROCESS IS PROHIBITED. GALVANIZE ALL FERROUS FASTENERS, CLIPS, SLEEVES, ANCHORS AND ACCESSORIES IN CONTACT WITH GALVANIZED ITEMS.
3. GALVANIZING MUST COMPLY WITH ASTM A123 OR A153 AS APPLICABLE FOR FABRICATION AND DESIGN REQUIREMENTS.
4. ALL GALVANIZED MATERIALS MUST BE INSPECTED FOR COMPLIANCE WITH THE ABOVE SPECIFICATIONS AND MARKED WITH A STAMP, INDICATING THE NAME OF GALVANIZER, THE ASTM SPECIFICATION AND THE WEIGHT OF THE ZINC COATING IN OUNCES PER SQUARE FOOT.
5. A NOTARIZED STATEMENT OF COMPLIANCE WITH SPECIFICATIONS MUST BE SUBMITTED TO THE ENGINEER OF RECORD BY THE GALVANIZER WITH THE INITIAL SHIPMENT.
6. GALVANIZER MUST FURNISH CERTIFICATION THAT SAMPLES REPRESENTING EACH LOT HAVE BEEN EITHER TESTED OR INSPECTED AS DIRECTED BY THE APPLICABLE ASTM SPECIFICATION (A123 OR A153) AND THE REQUIREMENTS HAVE BEEN MET. A REPORT OF THE TEST RESULTS MUST BE FURNISHED TO THE OWNER IF REQUESTED.
7. FIELD WELDED JOINTS MUST BE GROUND SMOOTH AND FINISHED WITH FOUR (4) FULL COATS OF CALIFORNIA PRODUCTS CORPORATION WW TOTRUST, SEALUBE ZRC, ZIRP BY DUNCAN OR APPROVED EQUAL.

WOOD FRAMING

1. ALL FRAMING SHALL BE SPRUCE-PINE-FIR, NO. 2 OR BETTER , UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS.
2. ALL TWO (2) INCH NOMINAL LUMBER SHALL BE SEASONED TO 19% MAXIMUM MOISTURE CONTENT.
3. ALL LUMBER AND PLYWOOD SHALL BE GRADE-STAMPED BY THE APPROPRIATE MANUFACTURER'S ASSOCIATION FOR THE APPROPRIATE USE.
4. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR EARTH SHALL BE PRESSURE TREATED SOUTHERN PINE.
5. ALL WOOD FRAMING SHALL BE BUILT PLUMB, LEVEL, SQUARE, AND TRUE WITH ADEQUATE BRACING AND CONNECTION HARDWARE TO ENSURE A RIGID STRUCTURE.
6. FRAMING CONNECTIONS SHALL BE ACCURATELY CUT AND TIGHTLY FITTED AS NECESSITATED BY THE CONDITIONS ENCOUNTERED TO PROVIDE FULL SURFACE CONTACT WITHOUT USE OF SHIMS.
7. ROOF SHEATHING SHALL BE APA RATED, EXPOSURE 1, UNLESS NOTED OTHERWISE. SHEATHING SHALL BE ADEQUATELY SPACED AT JOINTS (1/8" TYP) AS RECOMMENDED BY THE APA FOR EXPANSION.
8. ALL SHEATHING SHALL BE LAID WITH LONG DIMENSIONS PERPENDICULAR TO SUPPORTS AND BE CONTINUOUS OVER TWO OR MORE SUPPORTS. STAGGER ALL JOINTS.
9. ALL SHEATHING SHALL BE NAILED 6" ON CENTER AT SUPPORTED PANEL EDGES AND AT 12" ON CENTER AT INTERMEDIATE SUPPORTS USING 10d NAILS, UNLESS OTHERWISE SHOWN OR NOTED.
10. ALL INTERIOR DOOR HEADERS SHALL CONSIST OF THREE 2X8'S FOR SPANS LESS THAN OR EQUAL TO 4 FEET AND THREE 2X10'S FOR SPANS GREATER THAN 4 FEET, UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS.
11. ALL INTERIOR HEADERS SHALL BEAR ON DOUBLE STUD POSTS AS A MINIMUM, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. SIMPSON CONSTRUCTION HARDWARE (OR APPROVED EQUAL) SHALL BE FASTENED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND NAILING SCHEDULE. THE GENERAL CONTRACTOR MUST BE FAMILIAR WITH, AND HAVE THE APPROPRIATE PRODUCT CATALOGS ON SITE.
    A. ALL SPECIFIED FASTENERS MUST BE INSTALLED ACCORDING TO THE INSTRUCTIONS IN THE SIMPSON CATALOG. INCORRECT FASTENER QUANTITY, SIZE, TYPE, MATERIAL, OR FINISH MAY CAUSE THE CONNECTION TO FAIL. 16d FASTENERS ARE COMMON NAILS (8 GAGE X 3-1/2") AND CANNOT BE REPLACED WITH 16d SINKERS (9 GAGE X 3-1/4") UNLESS OTHERWISE SPECIFIED.
    B. BOLT HOLES SHALL BE A MINIMUM OF 1/32" AND A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER (PER THE 2005 NDS, SECTION 11.1.2.2.).
    C. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
    D. PNEUMATIC NAILERS MAY BE USED TO INSTALL CONNECTORS, PROVIDED THE CORRECT QUANTITY AND TYPE OF NAILS ARE PROPERLY INSTALLED IN THE NAIL HOLES. TOOLS WITH NAIL HOLE-LOCATING MECHANISMS SHOULD BE USED. FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND USE THE APPROPRIATE SAFETY EQUIPMENT.
    E. JOIST SHALL BEAR COMPLETELY ON THE CONNECTOR SEAT AND THE GAP BETWEEN THE JOIST AND THE HEADER SHALL NOT EXCEED 1/8".
14. BEAMS NOTED AS "LVL" SHALL BE "VERSA-LAM" AS MANUFACTURED BY BOISE CASCADE (E=2,000,000 PSI, Fb=3100 PSI). VERSA-LAM PRODUCTS SHALL BE PROPERLY STORED AND PROTECTED FROM WATER DAMAGE DURING CONSTRUCTION.
15. COLUMNS NOTED AS "LVL" SHALL BE "VERSA-LAM" AS MANUFACTURED BY BOISE CASCADE (E=1,800,000 PSI, Fb=2750 PSI). VERSA-LAM PRODUCTS SHALL BE PROPERLY STORED AND PROTECTED FROM WATER DAMAGE DURING CONSTRUCTION.
16. UNLESS NOTED OTHERWISE, MINIMUM FASTENING OF WOOD MEMBERS SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC.
17. ALL POSTS SHALL CONTINUE TO THE FOUNDATION. UNLESS OTHERWISE INDICATED, INSTALL SOLID BLOCKING WITHIN FLOOR PLENUM TO PROVIDE CONTINUITY OF LOAD PATH.

PRESSURE TREATED LUMBER

1. PRESSURE TREATED LUMBER SHALL BE TREATED WITH AN ACQ PROCESS SUITABLE TO EXTERIOR EXPOSED SERVICE. ACQ TREATMENT WITH AMMONIA IS NOT PERMITTED.
2. USE PT SOUTHERN PINE LUMBER FOR ALL EXTERIOR FRAMING AND FOR SILL PLATES ON FOUNDATION WALLS AND INTERIOR SLABS ON GRADE.
3. USE HOT DIPPED GALVANIZED ANCHOR BOLTS TO FASTEN PT PLATES TO FOUNDATION WALLS. USE STAINLESS STEEL OR OTHERWISE ACCEPTED CORROSION RESISTANT POWER ACTUATED FASTENERS IN ALL PLATE TO SLAB CONNECTIONS. USE HOT DIP GALV. NAILS IN ALL FRAMING CONNECTIONS TO PT.
4. USE G185 GALVANIZED CONNECTORS (SIMPSON ZMAX OR EQUAL) AND HOT DIPPED GALVANIZED NAILS (G185 OR EQ.) FOR ALL PT CONNECTIONS. USE STAINLESS STEEL CONNECTORS AND STAINLESS STEEL NAILS IN HIGHLY CORROSIVES AREAS SUCH AS OCEAN FRONT.
5. FAILURE TO FOLLOW THESE NOTES MAY RESULT IN A RAPID CORROSION OF METAL FASTENERS AND CONNECTORS AND STRUCTURAL FAILURE.

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STATE OF NEW HAMPSHIRE
HOSSEIN SALEHKHOU
No. 6758
LICENSED PROFESSIONAL ENGINEER
12-11-15

Bid and Construction Set

December 11, 2015

NOTE: IT IS THE GCS, CMS AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT: BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: GENERAL STRUCTURAL NOTES (SHEET 1 OF 2)

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: HS
CHECKED BY: HS
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:

S1.0

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WOOD TRUSSES

1. ALL WOOD ROOF TRUSSES SHALL BE DESIGNED AND MANUFACTURED BY BOISE STRUCTURAL SOLUTIONS, INC. OF BIDDEFORD, MAINE; RELIABLE TRUSS AND COMPONENTS, INC. OF NEW BEDFORD, MA; OR APPROVED EQUAL. ALL ASSOCIATED CONNECTION HARDWARE FOR TRUSSES SHALL ALSO BE DESIGNED AND SUPPLIED BY TRUSS MANUFACTURER. TRUSS DESIGNS ARE TO BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER RETAINED BY MANUFACTURER. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF PRODUCTION.

2. ALL WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN ACCORDANCE WITH TRUSS PLATE INSTITUTE (TPI) PUBLICATION BCSI 2008 FOR BRACING WOOD TRUSSES. PROPER BRACING OF WOOD TRUSSES DURING ERECTION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

3. MINIMUM GRADE FOR ANY TRUSS MEMBER SHALL BE #2.

4. WOOD TRUSS MANUFACTURER SHALL CLEARLY LABEL ALL COMPRESSION WEBS WHICH REQUIRE LATERAL BRACING WITH RED TAGS OR PAINT. FAILURE TO LABEL WILL REQUIRE IN-PLACE LABELING BY TRUSS MANUFACTURER.

5. WOOD TRUSS MANUFACTURER SHALL MAINTAIN A MAXIMUM PANEL POINT SPACING OF 10 FT. UNLESS WRITTEN APPROVAL FOR A MODIFICATION IS RECEIVED FROM ENGINEER.

6. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM UNIFORMLY DISTRIBUTED LOADS:
   TOP CHORD SNOW LOAD.....60 PSF BALANCED* (DO NOT REDUCE)
   TOP CHORD DEAD LOAD.....7 PSF
   BOTTOM CHORD LIVE LOAD.....10 PSF
   BOTTOM CHORD DEAD LOAD.....7 PSF

   * CONSIDER UNBALANCED LOADING PER ASCE 7-05

7. WOOD TRUSS LAYOUT DRAWINGS SHALL BE PREPARED ON 24"X36" SHEETS AND CLEARLY LABEL ALL TRUSSES AND CONNECTORS. SHOP DRAWINGS MUST INCLUDE THE FOLLOWING INFORMATION: MEMBER SPECIES AND GRADE; MEMBER FORCES; MEMBER CSI RATIOS; ACTUAL DL AND LL DEFLECTIONS; REACTIONS; CONNECTOR PLATE REQUIREMENTS AND SIZES.

8. OVERBUILD TRUSSES SHALL HAVE BOTTOM CHORDS BEVEL CUT TO MATCH THE SLOPE OF THE SUPPORTING ROOF.

9. ROOF AND FLOOR TRUSSES SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION CRITERIA OF L/480. SCISSOR TRUSS DESIGN LIVE LOAD HORIZONTAL DEFLECTION SHALL BE LIMITED TO 3/4".

10. THE "MINIMUM" MEMBER SIZE USED IN ANY ROOF TRUSS SHALL BE A 2X4. FLOOR TRUSSES SHALL ALSO USE A MINIMUM MEMBER SIZE OF 2X4 UNLESS APPROVED BY ENGINEER PRIOR TO BIDDING. THE MINIMUM "PLATE" SIZE USED ON ANY ROOF TRUSS CONNECTION SHALL BE 3"X4", REGARDLESS OF DESIGN REQUIREMENT.

11. TRUSS MANUFACTURER SHALL BE ACCEPTABLE TO THE ENGINEER. CONTRACTOR SHALL QUALIFY MANUFACTURERS WITH ENGINEER PRIOR TO BIDDING.

12. LONG SPAN TRUSSES REQUIRE "EXTREME" TEMPORARY BRACING REQUIREMENTS. REFER TO THE LATEST EDITION OF THE TPI PUBLICATION BCSI AND CONSULT TRUSS MANUFACTURER FOR ALL BRACING REQUIREMENTS.

13. ERECTION BRACING OF WOOD TRUSSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS IS MEANS AND METHODS. FOLLOW THE LATEST EDITION OF THE TPI PUBLICATION BCSI STRICTLY IN ADDITION TO WEB BRACING REQUIREMENTS SHOWN ON TRUSS SHOP DRAWINGS. CONSULT TRUSS MANUFACTURER OR INDEPENDENT ENGINEER IF FURTHER DESIGN ASSISTANCE IS NEEDED.

14. ALL LATERAL BRACING INSTALLED ON COMPRESSION WEBS OF TRUSSES, AS DIRECTED BY MANUFACTURER, MUST HAVE CROSS BRACING INSTALLED ON SAME WEB PLANE AT INTERVALS SHOWN ON THESE DRAWINGS AND BCSI-B3 FIGURE B3-11. NOTE THAT CROSS BRACING IS REQUIRED FOR PERMANENT BRACING TO PREVENT WEBS FROM BUCKLING AS A GROUP. WHERE DIAGONAL BRACES CROSS, INTERRUPT ONE BRACE AND ADD A 4-FT. LONG 2X4 SPLICE OVER THE INTERRUPTED BRACE AND USE (8) 10d NAILS ON EACH SIDE. AS AN ALTERNATE, VEE OR CHEVRON BRACING CAN BE INSTALLED USING THE SAME QUANTITY OF DIAGONAL MEMBERS, WHICH ELIMINATES THE NEED FOR THE SPLICE. IN THE EVENT THAT TEE-BRACING OR STRONGBACKS ARE USED INSTEAD OF CONTINUOUS LATERAL BRACING, THE CROSS BRACING IS THEN ONLY A TEMPORARY ERECTION STABILITY REQUIREMENT. CONTINUOUS LATERAL BRACING MUST, HOWEVER, BE LOCATED ON TOP AND BOTTOM CHORDS ABOVE AND BELOW CROSS BRACING FOR TEMPORARY CROSS BRACING TO BE EFFECTIVE.

15. TRUSS MANUFACTURER SHALL ATTEMPT TO ALIGN ADJACENT TRUSS WEBS TO ALLOW INSTALLATION OF LATERAL BRACING. A MINIMUM OF 6 ADJACENT WEBS MUST ALIGN, OTHERWISE MANUFACTURER SHALL SPECIFY AND PROVIDE A DETAIL FOR TEE-BRACING.

16. DO NOT USE HINGED FALSE TOP CHORDS WHERE PIGGYBACKS ARE REQUIRED FOR SHIPPING HEIGHTS. USE PIGGYBACKS OVER 2X4 PURLINS AT 24" O/C WITH DIAGONAL BRACING APPLIED TO THE TOP CHORD PLANE.

FIRE-RESISTANT CONSTRUCTION

1. THIS PROJECT SHALL BE BUILT IN ACCORDANCE WITH CHAPTER 7 OF IBC 2009 WHICH ADDRESSES FIRE RESISTANT MATERIALS AND CONSTRUCTION. THE CONTRACTOR SHALL BE FAMILIAR WITH THE REQUIREMENTS NOTED THEREIN.

2. WALLS NOTED AS FIRE WALLS, FIRE BARRIERS, AND FIRE PARTITIONS SHALL HAVE THE FIRE RESISTANCE RATING SHOWN ON THE DRAWINGS AND SHALL HAVE THE FOLLOWING PROPERTIES:

   FIRE WALLS
   A. SHALL BE BUILT SUCH THAT THE CONSTRUCTION ON EITHER SIDE OF WALL CAN COLLAPSE DURING A FIRE WITHOUT CAUSING THE WALL TO COLLAPSE.
   B. SHALL BE CONTINUOUS FROM TOP TO BOTTOM.
   C. NO ADJACENT CONSTRUCTION CAN BEAR ON A FIRE WALL.

   FIRE BARRIERS
   A. SHALL BE CONTINUOUS FROM THE TOP OF THE FLOOR DECK BELOW TO THE UNDERSIDE OF THE FLOOR DECK OR ROOF SHEATHING ABOVE.
   B. SHALL BE CONTINUOUS THROUGH ALL CONCEALED SPACES SUCH AS ABOVE SUSPENDED CEILINGS.

   FIRE PARTITIONS
   A. SHALL BE CONTINUOUS FROM THE TOP OF THE FLOOR DECK BELOW TO THE UNDERSIDE OF THE FIRE RATED ASSEMBLY ABOVE. IF THE CEILING ABOVE IS FIRE RATED, THE RATED MEMBRANE (SHEET ROCK) OF THE FIRE PARTITION DOES NOT NEED TO CONTINUE ABOVE THE CEILING.

3. OPENING PROTECTIVES IN RATED WALLS SHALL HAVE THE RATINGS SHOWN ON THE DRAWINGS. ALL DOORS IN FIRE RATED WALLS SHALL HAVE CLOSURES.

4. FIRE RATED WALLS THAT INTERSECT EXTERIOR WALLS SHALL CONTINUE TO THE INSIDE FACE OF EXTERIOR SHEATHING OF THE EXTERIOR WALL.

5. ALL FIRE RATED ASSEMBLIES BEARING A UL RATING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE DRAWINGS AND IN ACCORDANCE WITH THE UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.

6. FIRE RATED FLOOR/CEILING ASSEMBLIES SHALL EXTEND TIGHT AGAINST EXTERIOR WALLS.

FIRE-RESISTANT CONSTRUCTION (Continued)

7. FIRE BLOCKING AND DRAFT STOPPING SHALL BE INSTALLED IN ACCORDANCE WITH IBC 2009 SECTION 721.0.

8. ALL PENETRATIONS IN FIRE RATED FLOOR OR WALL ASSEMBLIES SHALL BE PROTECTED AS NOTED IN IBC 2009 SECTION 714.0.

9. ALL VERTICAL SHAFTS THAT CONNECT LESS THAN FOUR STORIES SHALL BE ENCLOSED IN ONE (1) HOUR FIRE SEPARATION ASSEMBLIES. SHAFTS CONNECTING FOUR OR MORE STORIES SHALL BE ENCLOSED IN TWO (2) HOUR FIRE SEPARATION ASSEMBLIES. THIS INCLUDES STAIRWAYS AND ELEVATOR SHAFTS.

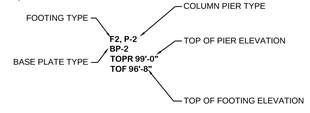
10. IF LOCAL CODES REGARDING THE RATING FOR ELEVATOR SHAFTS ARE MORE RESTRICTIVE THAN IBC 2009, THE MORE RESTRICTIVE REQUIREMENT SHALL APPLY.

CONSTRUCTION ADMINSTRATION

1. IT IS RECOMMENDED THAT THE GENERAL CONTRACTOR OR OWNER RETAIN JSN ASSOCIATES, INC. FOR PERIODIC OBSERVATION OF THE STRUCTURE DURING CONSTRUCTION. IF JSN IS NOT RETAINED THE OWNER OR GENERAL CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR VERIFYING THAT THE STRUCTURE IS BUILT IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. JSN WILL NOT BE HELD LIABLE FOR DEFICIENCIES AS A RESULT OF NON-COMPLIANT CONSTRUCTION.

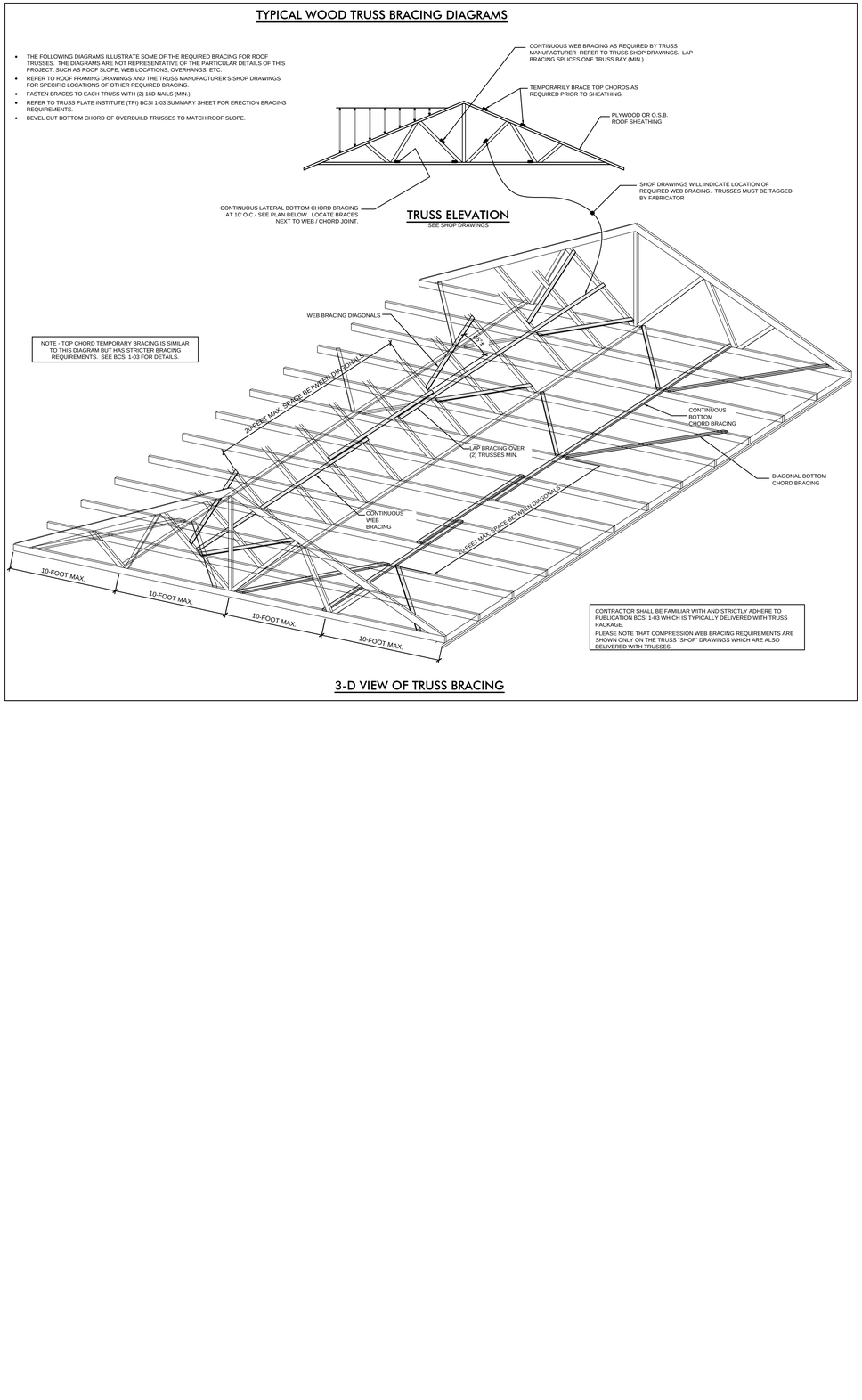
LEGEND

DTOFT	Drop Top Of Footing To Elevation "_"
DTOSHT	Drop Top Of Brick Shelf To Elevation "_"
DTOWT	Drop Top Of Wall To Elevation "_"
JB	Joist Bearing Elevation
JH	Joist Header
TOC	Top Of Concrete Elevation
TOF	Top Of Footing Elevation
TOJ	Top Of Joist Elevation
TOPR	Top Of Concrete Pier Elevation
TOS	Top Of Structural Steel Elevation
TOSH	Top Of Brick/Veneer Shelf Elevation
TOW	Top Of Wall Elevation
UNO	Unless Noted Otherwise
TYP	Typical
99	Approximate Exterior Finish Grade



TYPICAL WOOD TRUSS BRACING DIAGRAMS

- THE FOLLOWING DIAGRAMS ILLUSTRATE SOME OF THE REQUIRED BRACING FOR ROOF TRUSSES. THE DIAGRAMS ARE NOT REPRESENTATIVE OF THE PARTICULAR DETAILS OF THIS PROJECT, SUCH AS ROOF SLOPE, WEB LOCATIONS, OVERHANGS, ETC.
- REFER TO ROOF FRAMING DRAWINGS AND THE TRUSS MANUFACTURER'S SHOP DRAWINGS FOR SPECIFIC LOCATIONS OF OTHER REQUIRED BRACING.
- FASTEN BRACES TO EACH TRUSS WITH (2) 16D NAILS (MIN.)
- REFER TO TRUSS PLATE INSTITUTE (TPI) BCSI 1-03 SUMMARY SHEET FOR ERECTION BRACING REQUIREMENTS.
- BEVEL CUT BOTTOM CHORD OF OVERBUILD TRUSSES TO MATCH ROOF SLOPE.



NOTE - TOP CHORD TEMPORARY BRACING IS SIMILAR TO THIS DIAGRAM BUT HAS STRICTER BRACING REQUIREMENTS. SEE BCSI 1-03 FOR DETAILS.

CONTRACTOR SHALL BE FAMILIAR WITH AND STRICTLY ADHERE TO PUBLICATION BCSI 1-03 WHICH IS TYPICALLY DELIVERED WITH TRUSS PACKAGE.
PLEASE NOTE THAT COMPRESSION WEB BRACING REQUIREMENTS ARE SHOWN ONLY ON THE TRUSS "SHOP" DRAWINGS WHICH ARE ALSO DELIVERED WITH TRUSSES.

3-D VIEW OF TRUSS BRACING

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STATE OF NEW HAMPSHIRE
HOSSEIN SALEHKHOU
No. 6758
LICENSED PROFESSIONAL ENGINEER
12-11-15

Bid and Construction Set

December 11, 2015

NOTE: IT IS THE GCS, CMS AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
GENERAL STRUCTURAL NOTES (SHEET 2 OF 2)

ISSUED:	Bid and Construction Set
JOB NO:	1312
DRAWN BY:	HS
CHECKED BY:	HS
DATE:	December 11, 2015

REVISION	DATE

SHEET NUMBER:

S1.1

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SCHEDULE OF SPECIAL INSPECTIONS, C.A.S.E. FORM-101

PROJECT:	BARRINGTON TOWN OFFICES
LOCATION:	RAMSDELL LANE
	BARRINGTON, NH 03825
OWNER:	TOWN OF BARRINGTON, NH
OWNER'S ADDRESS:	333 CALEF HIGHWAY (ROUTE 125), BARRINGTON, NH 03825
ARCHITECT OF RECORD (AOR):	SMP ARCHITECTURE, 30 S. MAIN STREET, BUILDING 2, CONCORD, NH 03301
STRUCTURAL ENGINEER OF RECORD (EOR):	JSN ASSOCIATES, INC. / HOSSEIN SALEHKHOU, P.E.

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF SPECIAL INSPECTORS AND THE IDENTITY OF OTHER APPROVED AGENCIES INTENDED TO BE RETAINED FOR CONDUCTING THESE SERVICES.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER AND ARCHITECT OF RECORD. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.

A FINAL REPORT OF SPECIAL INSPECTIONS BY THE SPECIAL INSPECTOR(S) DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

THE SPECIAL INSPECTOR, WHO IS GENERALLY EMPLOYED BY THE PRIMARY TESTING AGENCY, MAY USE VARIOUS INSPECTORS WHO ARE FAMILIAR WITH EACH CATEGORY OF WORK. IF SPECIAL INSPECTIONS ARE ALSO PERFORMED BY AGENTS WHO ARE NOT EMPLOYED BY PRIMARY TESTING AGENCY, EACH OF THESE ADDITIONAL SPECIAL INSPECTORS SHALL ISSUE A FINAL REPORT FOR THEIR CATEGORY OF INSPECTION. ONLY AFTER THE FINAL REPORT(S) HAS(HAVE) BEEN ISSUED BY THE SPECIAL INSPECTOR(S) CAN THE AOR AND EOR ISSUE FINAL AFFIDAVITS FOR THE PROJECT COMPLETION.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

PREPARED BY:

12-11-15

HOSSEIN SALEHKHOU, P.E. DATE

STATE OF NEW HAMPSHIRE
HOSSEIN SALEHKHOU
No. 6758
LICENSED
PROFESSIONAL ENGINEER
12-11-15

SEAL

OWNER'S AUTHORIZATION:

SIGNATURE DATE

BUILDING OFFICIAL'S AUTHORIZATION:

SIGNATURE DATE

SCHEDULE OF SPECIAL INSPECTION SERVICES

THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOW:

- SOILS AND FOUNDATIONS
- CAST-IN-PLACE CONCRETE
- STRUCTURAL STEEL
- COLD-FORMED METAL FRAMING
- WOOD CONSTRUCTION

INSPECTION AGENT	FIRM	ADDRESS
1. SPECIAL INSPECTOR	TBD	TBD
2. TESTING LABORATORY	TBD	TBD
3. STRUCTURAL ENGINEER	JSN ASSOCIATES, INC.	ONE AUTUMN STREET PORTSMOUTH, NH 03801 (603) 433-8639
4. COLD-FORMED METAL DESIGN ENGINEER	TBD	TBD

NOTE: THE INSPECTION AND TESTING AGENT SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK.

QUALIFICATIONS OF INSPECTORS / TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED IF REQUESTED.

KEY FOR MINIMUM QUALIFICATIONS OF INSPECTION AGENTS:

WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE.

PE/SE	STRUCTURAL ENGINEER - A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES.
PE/GE	GEOTECHNICAL ENGINEER - A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS.
EIT	ENGINEER-IN-TRAINING - A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION.

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION

ACI-CFTT	CONCRETE FIELD TESTING TECHNICIAN - GRADE 1
ACI-CCI	CONCRETE CONSTRUCTION INSPECTOR
ACI-LTT	LABORATORY TESTING TECHNICIAN - GRADE 1 & 2
ACI-STT	STRENGTH TESTING TECHNICIAN

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION

AWS-CWI	CERTIFIED WELDING INSPECTOR
AWS/AISC-SSI	CERTIFIED STRUCTURAL STEEL INSPECTOR

AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION

ASNT	NON-DESTRUCTIVE TESTING TECHNICIAN - LEVEL II OR III

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION

ICC-SMSI	STRUCTURAL MASONRY SPECIAL INSPECTOR
ICC-SWSI	STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR
ICC-SFSI	SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR
ICC-PCSI	PRESTRESSED CONCRETE SPECIAL INSPECTOR
ICC-RCSI	REINFORCED CONCRETE SPECIAL INSPECTOR

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)

NICET-CT	CONCRETE TECHNICIAN - LEVELS I, II, III & IV
NICET-ST	SOIL TECHNICIAN - LEVELS I, II, III & IV
NICET-GET	GEOTECHNICAL ENGINEERING TECHNICIAN - LEVELS I, II, III & IV

EXTERIOR DESIGN INSTITUTE (EDI) CERTIFICATION

EDI-EIFS	EIFS THIRD PARTY INSPECTOR

SOILS AND FOUNDATIONS

ITEM	AGENT NO. & QUALIFICATIONS	SCOPE & FREQUENCY
1. SHALLOW FOUNDATIONS	1 PE/GE	VERIFY THAT UNSUITABLE BEARING MATERIALS ARE REMOVED. VERIFY THE SOIL LOAD-BEARING CAPACITY COINCIDES WITH THAT IDENTIFIED IN THE CONSTRUCTION DOCUMENTS. FREQUENCY - AT EACH AFFECTED FOOTING.
2. CONTROLLED STRUCTURAL FILL	1	N/A
3. DEEP FOUNDATIONS	1	N/A
4. OTHER	1	N/A

CAST-IN-PLACE CONCRETE

ITEM	AGENT NO. & QUALIFICATIONS	SCOPE & FREQUENCY
1. MIX DESIGN	2 ACI-CCI ICC-RCSI	REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN. FREQUENCY - EACH MIX DESIGN.
2. MATERIAL CERTIFICATION	3 PE	REVIEW FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
3. REINFORCEMENT INSTALLATION	2 ACI-CCI ICC-RCSI	INSPECT SIZE, SPACING, COVER, POSITIONING AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS. FREQUENCY - 25% OF STRIP FOOTINGS AND FROST WALLS 100% OF ISOLATED FOOTINGS, 100% OF RETAINING WALLS AND 50% OF ALL OTHERS.
4. ANCHOR RODS & FORMWORK GEOMETRY	2 ACI-CCI ICC-RCSI	INSPECT SIZE, POSITIONING AND EMBEDMENT OF ANCHOR RODS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS. REVIEW FORMWORK GEOMETRY FOR COMPLIANCE WITH THE STRUCTURAL CONSTRUCTION DOCUMENTS. FREQUENCY - 100% OF ALL ANCHOR RODS, 25% OF FORMWORK.
5. CONCRETE PLACEMENT	2 ACI-CCI ICC-RCSI	INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED. FREQUENCY - 100% OF ALL FOOTING PLACEMENTS AND THOSE EXCEEDING 5 CUBIC YARDS PLACED ELSEWHERE. TEST SLUMP AND TEMPERATURE OF EACH BATCH. TEST AIR CONTENT WHEN COMPRESSIVE STRENGTH TEST SPECIMENS ARE MOLDED.
6. SAMPLING AND TESTING OF CONCRETE	2 ACI-CFTT ACI-STT	TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR-CONTENT (ASTM C231 OR C173) AND TEMPERATURE (ASTM C1064). OBTAIN ONE SET OF (4) STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. TEST TWO (2) CYLINDERS AT 7-DAYS AND TWO (2) AT 28-DAYS. TESTING FREQUENCY: (1) COMPRESSIVE STRENGTH TEST SHOULD BE PERFORMED FOR EACH DAY'S POUR EXCEEDING 5 CUBIC YARDS AND (1) ADDITIONAL SET FOR EACH 50 CUBIC YARDS MORE THAN THE FIRST 25 CUBIC YARDS. AT A MINIMUM, COMPRESSIVE STRENGTH TESTS SHOULD BE PERFORMED ON CONCRETE USED IN 30% OF ALL NEW INTERIOR FOOTINGS. FIELD-CURED CYLINDERS - DURING COLD WEATHER CONCRETE OPERATIONS, PREPARE TWO (2) ADDITIONAL SETS OF TWO (2) STANDARD CYLINDERS TO BE CURED AT THE SITE, MAINTAINING CYLINDERS IN CONDITIONS AND AT TEMPERATURES OF THE IN-PLACE CONCRETE. PROTECT CYLINDERS FROM BEING HIT, DAMAGED, AND FROM VIBRATION DURING INITIAL SET. PERFORM COMPRESSIVE STRENGTH TEST ON TWO (2) OF THE CYLINDERS AT 7 DAYS AND ON THE REMAINING TWO (2) CYLINDERS AT 28 DAYS.
7. CURING AND PROTECTION	2 ACI-CCI ICC-RCSI	INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES.

STRUCTURAL STEEL, STEEL JOISTS & DECKS

ITEM	AGENT NO. & QUALIFICATIONS	SCOPE & FREQUENCY
1. FABRICATOR CERTIFICATION AND QUALITY CONTROL PROCEDURES	TBD AWS/AISC-SSI ICC-SWSI	REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES.
2. MATERIAL CERTIFICATION	TBD AWS/AISC-SSI ICC-SWSI	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.
3. OPEN WEB STEEL JOISTS	1 AWS/AISC-SSI ICC-SWSI	N/A
4. BOLTING	1 AWS/AISC-SSI ICC-SWSI	INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCES. FREQUENCY - 25% OF BEARING-TYPE BOLTS. CONTINUOUS INSPECTION OF BOLTS IN SLIP-CRITICAL CONNECTIONS.
5. WELDING	1 AWS-CWI ASNT	VISUALLY INSPECT ALL WELDS. INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES. VERIFY SIZE AND LENGTH OF FILLET WELDS. REVIEW WELDER QUALIFICATION STATEMENTS BY FABRICATOR AND ERECTOR. FREQUENCY - 100% SHOP & FIELD FILLET (>5/16", MULTI-PASS) AND PARTIAL PENETRATION GROOVE WELDS MUST BE SPOT TESTED AT A RATE OF ONE (1) TEST PER MEMBER USING THE MAGNETIC PARTICLE TEST METHOD. 100% OF ALL SHOP & FIELD COMPLETE PENETRATION GROOVE WELDS MUST BE TESTED USING THE ULTRASONIC METHOD.
6. SHEAR CONNECTORS	1 AWS/AISC-SSI ICC-SWSI	N/A
7. STRUCTURAL DETAILS	3 PE/SE	VERIFY THAT THE GENERAL GEOMETRY OF THE ERECTED STEEL FRAME CONFORMS TO THE CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS. FREQUENCY - TBD
8. METAL DECK	2 AWS-CWI	INSPECT WELDING AND SIDE-LAP FASTENING OF METAL ROOF AND FLOOR DECK. VERIFY SIZE AND QUANTITY OF FASTENERS FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS. FREQUENCY - 100% OF FASTENING PATTERNS. SPOT-CHECK 10% OF ALL WORK FOR SIZE & TYPE OF FASTENERS.

WOOD CONSTRUCTION

ITEM	AGENT NO. & QUALIFICATIONS	SCOPE & FREQUENCY
1. TRUSS FABRICATOR CERTIFICATION / QUALITY CONTROL PROCEDURES	1 TBD	VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES WHICH CONFORM TO THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE (TPI) AND WOOD TRUSS COUNCIL OF AMERICA (WTCA).
2. MATERIAL GRADING	3 PE	REVIEW SPECIES AND GRADES OF LUMBER USED TO ENSURE CONFORMANCE WITH CONSTRUCTION DOCUMENTS. REVIEW TRUSS MEMBERS TO ENSURE CONFORMANCE WITH TRUSS ENGINEERING AND SHOP DRAWINGS.
3. CONNECTIONS	3 PE	VERIFY THAT ROOF TRUSS AND OTHER WOOD FRAME CONNECTIONS COMPLY WITH CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS. FREQUENCY - THREE (3) RANDOM OBSERVATIONS
4. FRAMING DETAILS	3 PE	VERIFY THAT FRAMING CONFIGURATION AND ALIGNMENT OF WALL FRAMING BELOW FLOOR AND ROOF FRAMING IS AS SPECIFIED ON THE CONSTRUCTION DOCUMENTS. VERIFY PERMANENT TRUSS BRACING TO CONFORM WITH PROJECT REQUIREMENTS. FREQUENCY - THREE (3) RANDOM OBSERVATIONS
5. PERMANENT TRUSS BRACING	3 PE	REVIEW CONTRACT DOCUMENTS FOR PERMANENT TRUSS BRACING REQUIREMENTS AND VERIFY THEIR INSTALLATION PER THE SAID DOCUMENTS. FREQUENCY - AS NECESSARY
6. OTHER	3 PE	VERIFY THAT FASTENING OF ALL LATERAL LOAD RESISTING ELEMENTS SUCH AS SHEAR WALLS AND DIAPHRAGMS ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FREQUENCY - THREE (3) RANDOM OBSERVATIONS

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Fax: (603) 431 - 2811
www.jsneng.com

STATE OF NEW HAMPSHIRE
HOSSEIN SALEHKHOU
No. 6758
LICENSED
PROFESSIONAL ENGINEER
12-11-15

Bid and Construction Set

December 11, 2015

NOTE: IT IS THE G.C.'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT: BARRINGTON TOWN OFFICES

Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: SCHEDULE OF SPECIAL INSPECTIONS

ISSUED: Bid and Construction Set

JOB NO: 1312

DRAWN BY: HS

CHECKED BY: HS

DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:

S1.2

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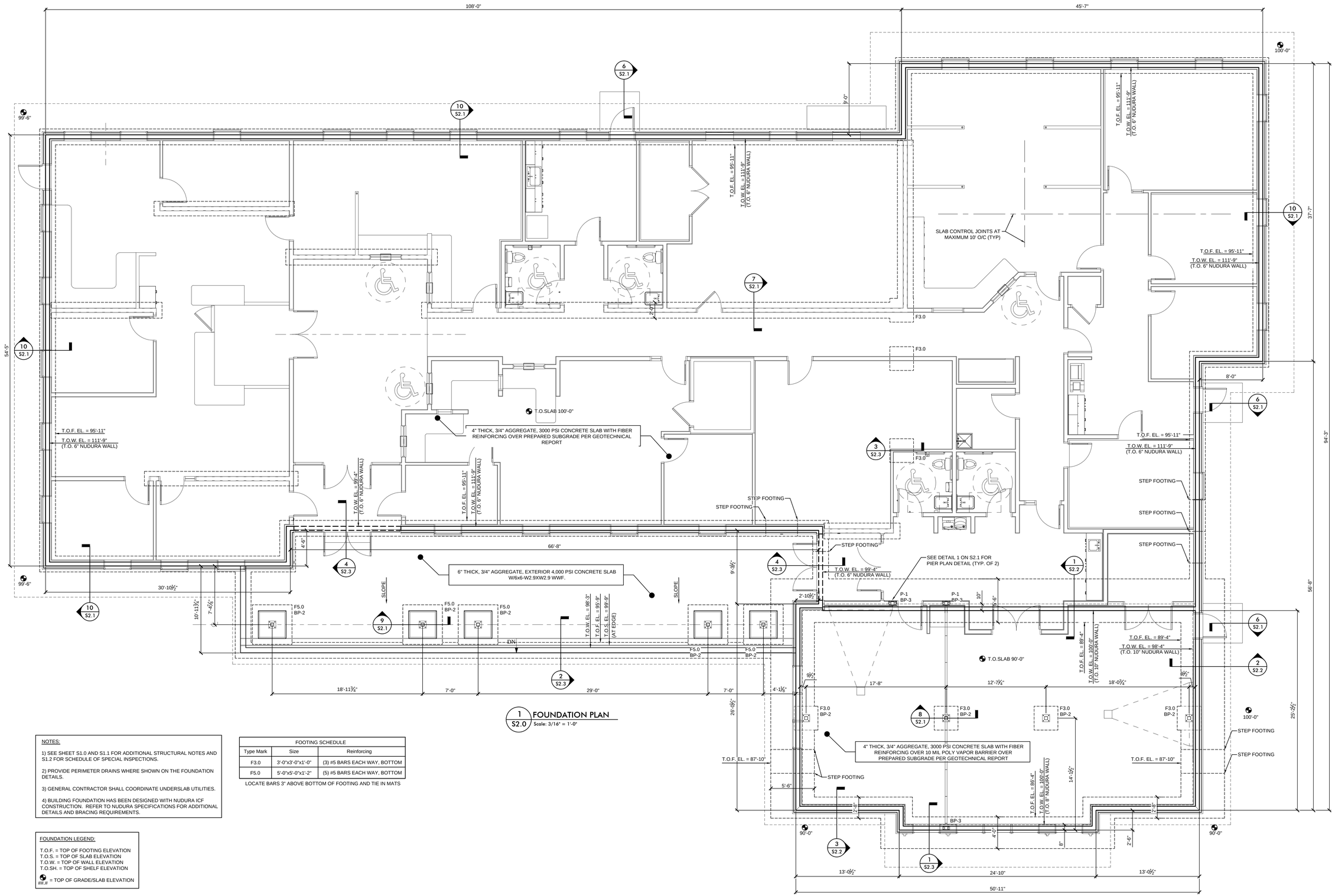

1 / S2.0 FOUNDATION PLAN

Scale: 3/16" = 1'-0"

NOTES:

1) SEE SHEET S1.0 AND S1.1 FOR ADDITIONAL STRUCTURAL NOTES AND S1.2 FOR SCHEDULE OF SPECIAL INSPECTIONS.

2) PROVIDE PERIMETER DRAINS WHERE SHOWN ON THE FOUNDATION DETAILS.

3) GENERAL CONTRACTOR SHALL COORDINATE UNDERSLAB UTILITIES.

4) BUILDING FOUNDATION HAS BEEN DESIGNED WITH NUDURA ICF CONSTRUCTION. REFER TO NUDURA SPECIFICATIONS FOR ADDITIONAL DETAILS AND BRACING REQUIREMENTS.

FOUNDATION LEGEND:

T.O.F. = TOP OF FOOTING ELEVATION
T.O.S. = TOP OF SLAB ELEVATION
T.O.W. = TOP OF WALL ELEVATION
T.O.SH. = TOP OF SHELF ELEVATION

= TOP OF GRADE/SLAB ELEVATION

FOOTING SCHEDULE

Type Mark	Size	Reinforcing
F3.0	3'-0"x3'-0"x1'-0"	(3) #5 BARS EACH WAY, BOTTOM
F5.0	5'-0"x5'-0"x1'-2"	(5) #5 BARS EACH WAY, BOTTOM

LOCATE BARS 3" ABOVE BOTTOM OF FOOTING AND TIE IN MATS

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PROJECT: BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: FOUNDATION PLAN

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: HS
CHECKED BY: HS
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:

S2.0

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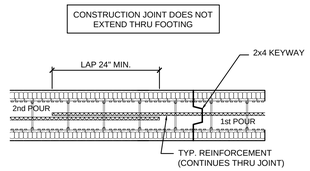
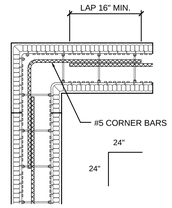
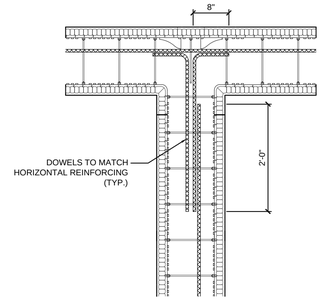


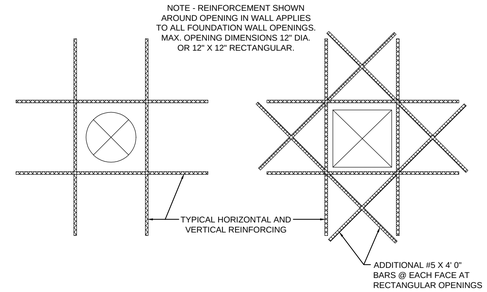
A S2.1 WALL CONSTRUCTION JOINT
No Scale



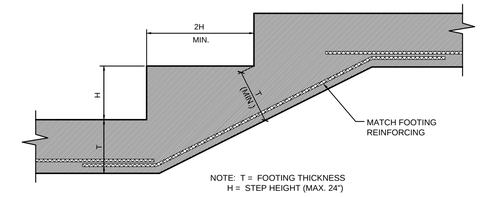
B S2.1 CORNER REINFORCING AT WALL
No Scale



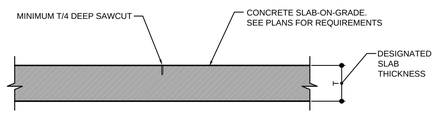
C S2.1 REINFORCING AT INTERSECTING WALLS
No Scale



D S2.1 TYPICAL REINFORCING AT FOUNDATION WALL OPENINGS
No Scale



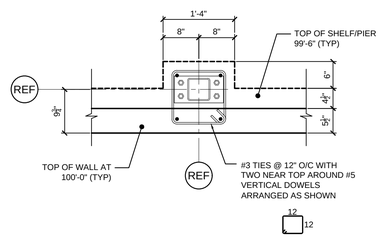
E S2.1 TYPICAL STEP IN FOOTING
No Scale



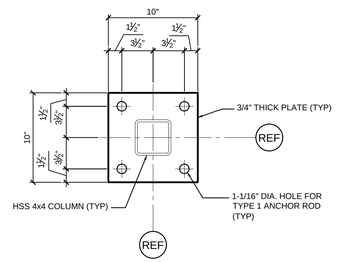
NOTE:

1. INCLUDE SECONDARY FIBER REINFORCING PER CONTRACT DOCUMENTS.
2. CONTROL JOINTS MUST BE WET-CUT IMMEDIATELY AFTER COMPLETION OF SLAB FINISHING

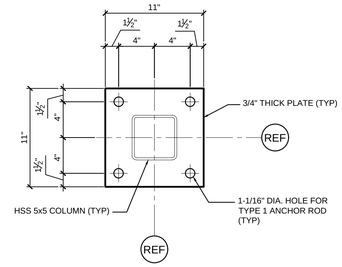
F S2.1 CONTROL JOINT DETAIL FOR SLABS-ON-GRADE
No Scale



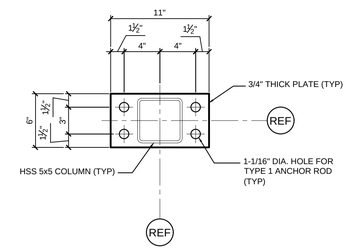
1 S2.1 PLAN OF TYPICAL PIER P-1
Scale: 3/4" = 1'-0"



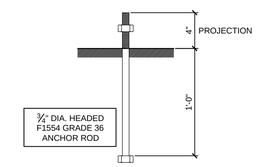
2 S2.1 TYPICAL BASE PLATE BP-1
Scale: 1-1/2" = 1'-0"



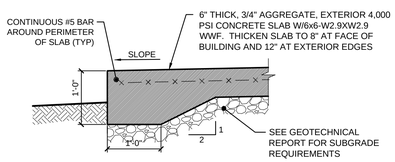
3 S2.1 TYPICAL BASE PLATE BP-2
Scale: 1-1/2" = 1'-0"



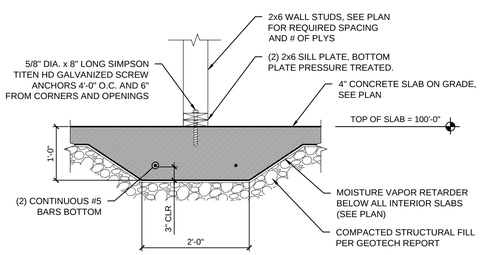
4 S2.1 TYPICAL BASE PLATE BP-3
Scale: 1-1/2" = 1'-0"



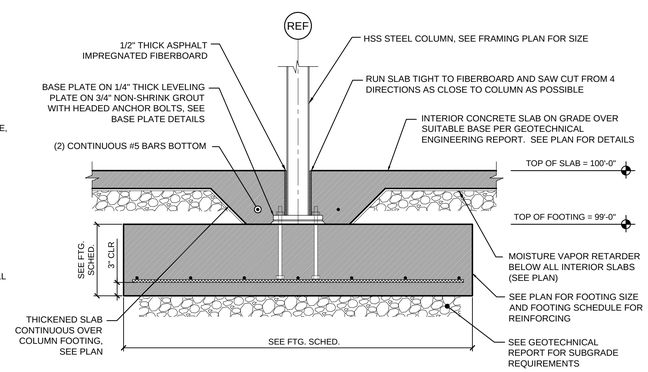
5 S2.1 TYPE 1 ANCHOR ROD
Scale: 1-1/2" = 1'-0"



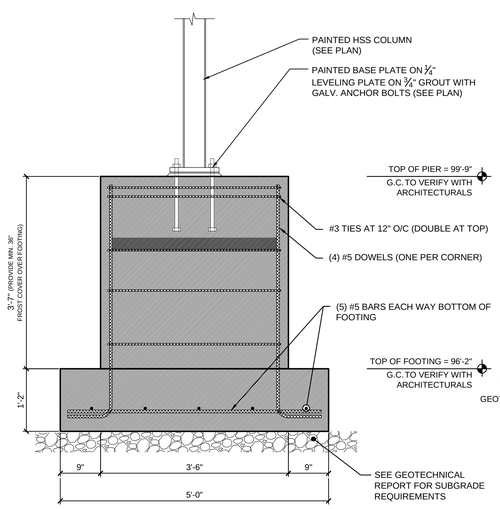
6 S2.1 PERIMETER EDGE DETAIL OF EXTERIOR SLAB
Scale : 3/4" = 1'-0"



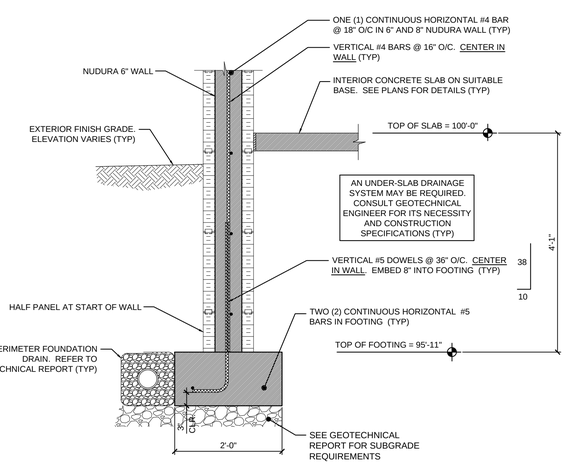
7 S2.1 THICKENED SLAB AT BEARING WALL
Scale : 3/4" = 1'-0"



8 S2.1 INTERIOR COLUMN SECTION
Scale : 3/4" = 1'-0"



9 S2.1 SECTION THROUGH EXTERIOR PIER
Scale : 3/4" = 1'-0"



10 S2.1 FOUNDATION WALL SECTION
Scale : 3/4" = 1'-0"

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Bid and Construction Set

December 11, 2015

NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT: BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: FOUNDATION DETAILS & SECTIONS

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: HS
CHECKED BY: HS
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:

S2.1

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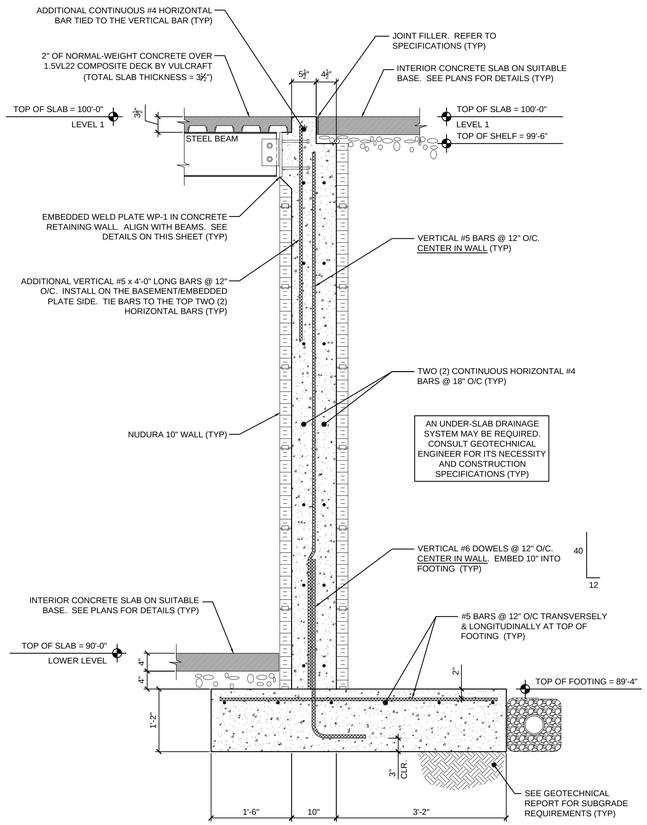
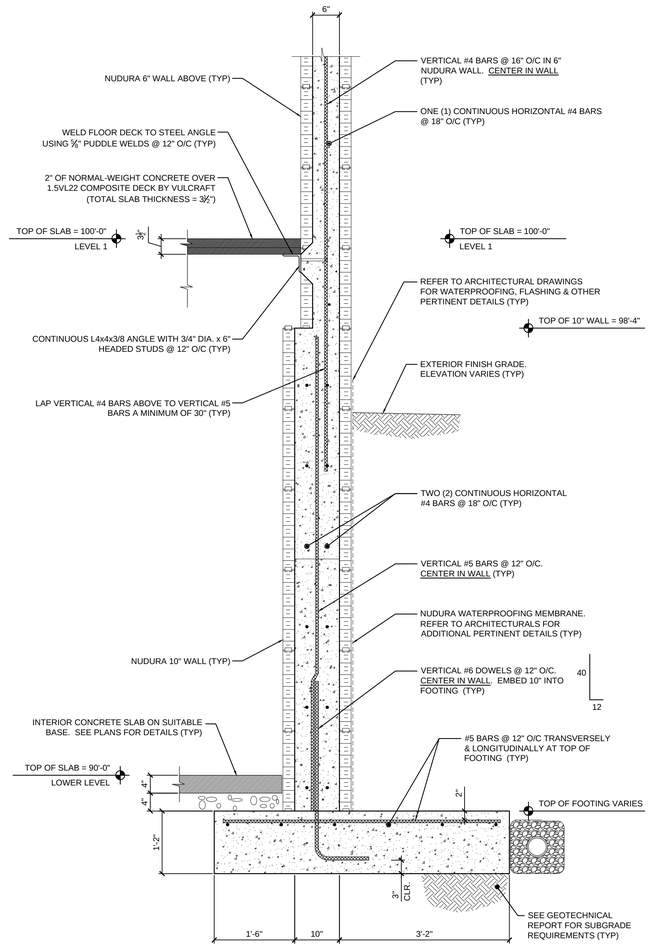
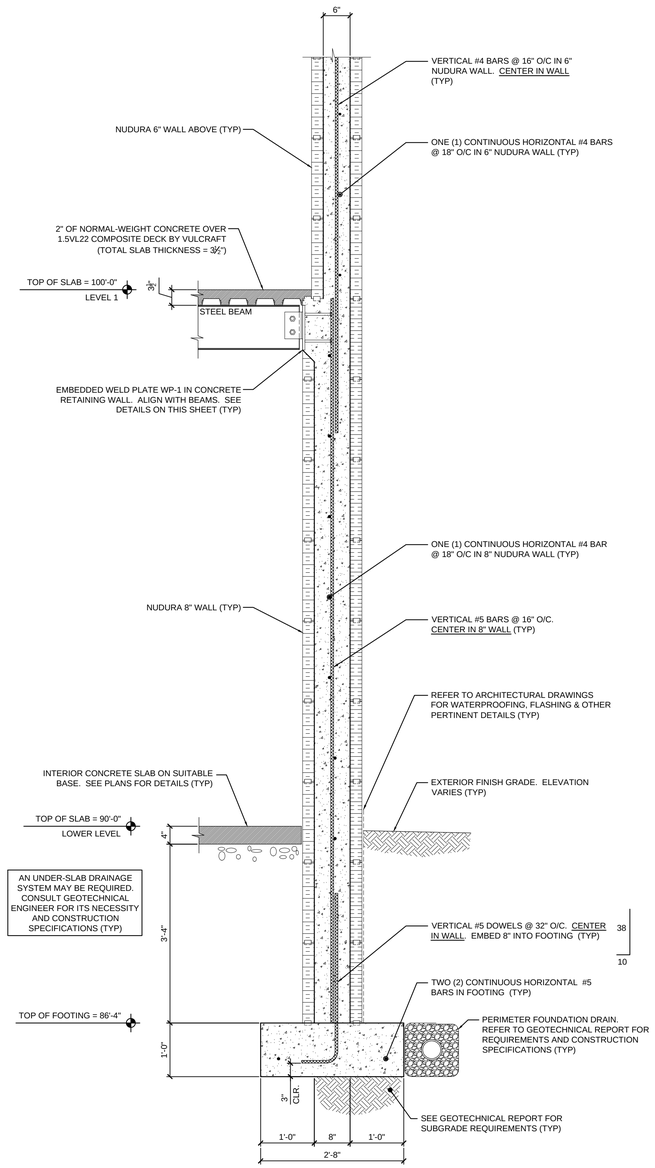


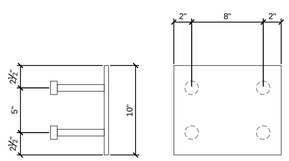
1 / S2.2 LOWER LEVEL RETAINING WALL
Scale : 3/4" = 1'-0"



2 / S2.2 LOWER LEVEL RETAINING WALL
Scale : 3/4" = 1'-0"



3 / S2.2 LOWER LEVEL RETAINING WALL
Scale : 3/4" = 1'-0"



WELD PLATE WP-1

1/2" THICK PLATE WITH FOUR (4) - 3/4" DIA. x 6" LONG EWS

4 / S2.2 TYPICAL EMBEDDED WELD PLATE TYPE WP-1
Scale: 1-1/2" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
12-11-15

Bid and Construction Set

December 11, 2015

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PROJECT: BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: FOUNDATION WALL SECTIONS & DETAILS

ISSUED:	Bid and Construction Set
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DRAWN BY:	HS
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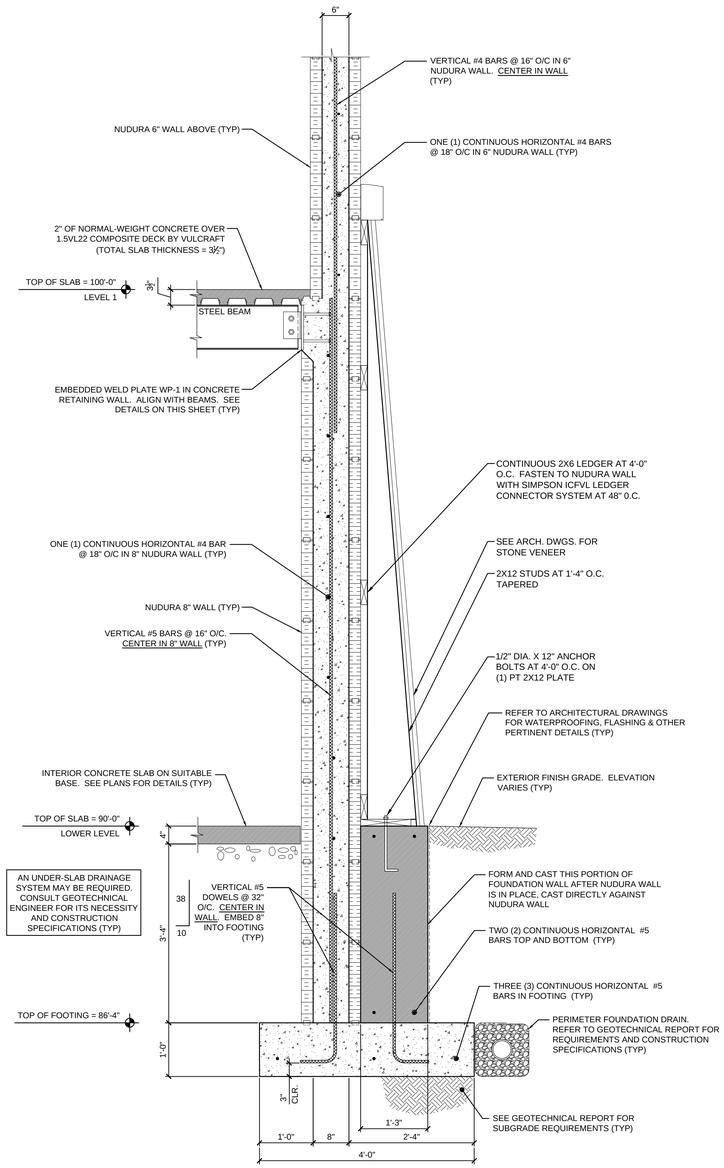
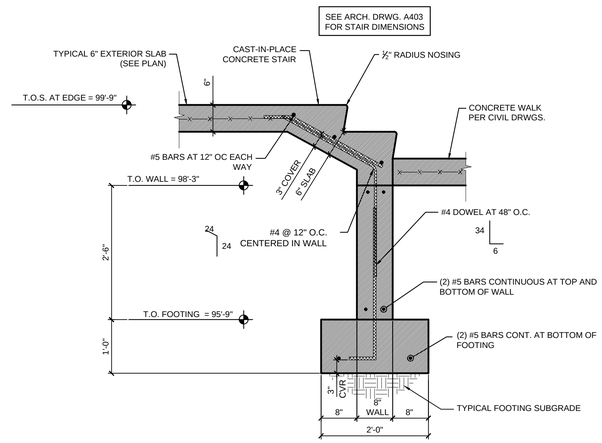
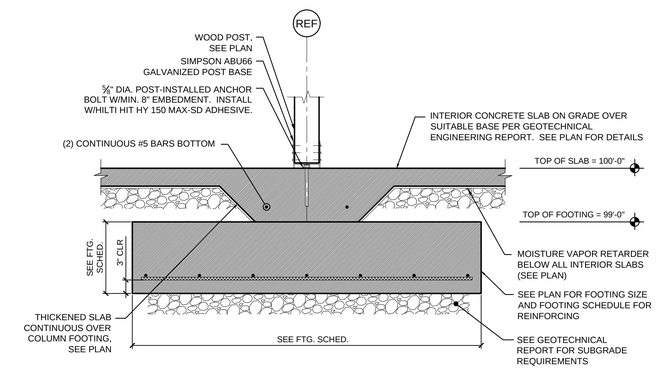


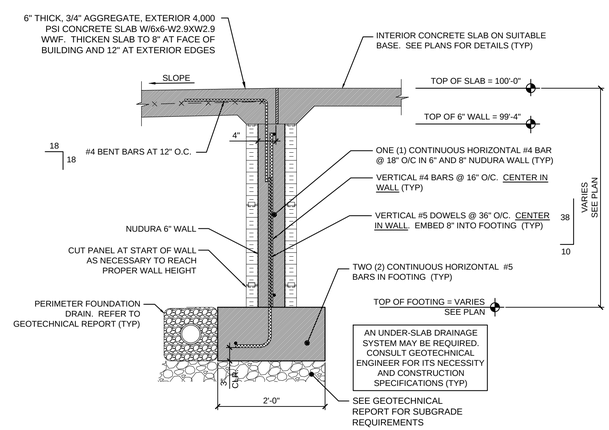
1 S2.3 LOWER LEVEL RETAINING WALL
Scale : 3/4" = 1'-0"



2 S2.3 SECTION AT EXTERIOR PATIO STAIRS
Scale : 3/4" = 1'-0"



3 S2.3 INTERIOR WOOD POST SECTION
Scale : 3/4" = 1'-0"



4 S2.3 FOUNDATION WALL SECTION
Scale : 3/4" = 1'-0"

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Ramsdell Lane, Barrington, New Hampshire 03825

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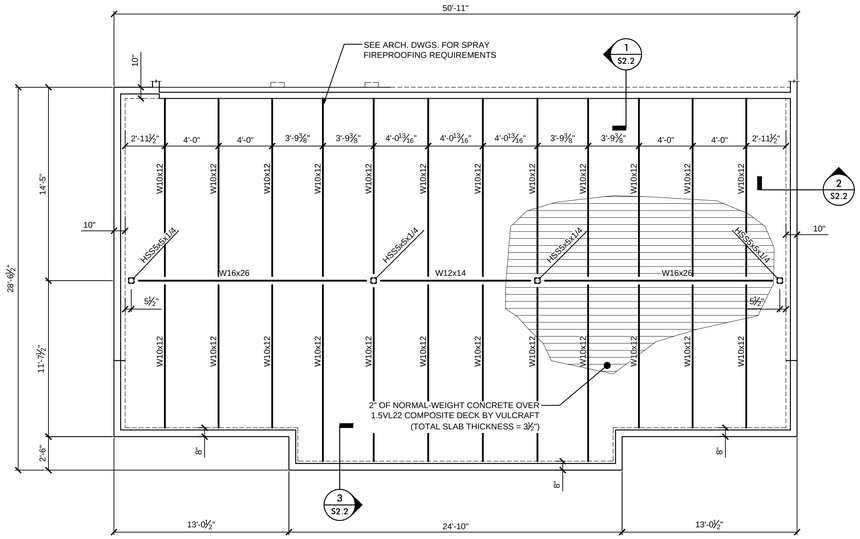

1 S3.0 FLOOR FRAMING PLAN
Scale: 3/16" = 1'-0"

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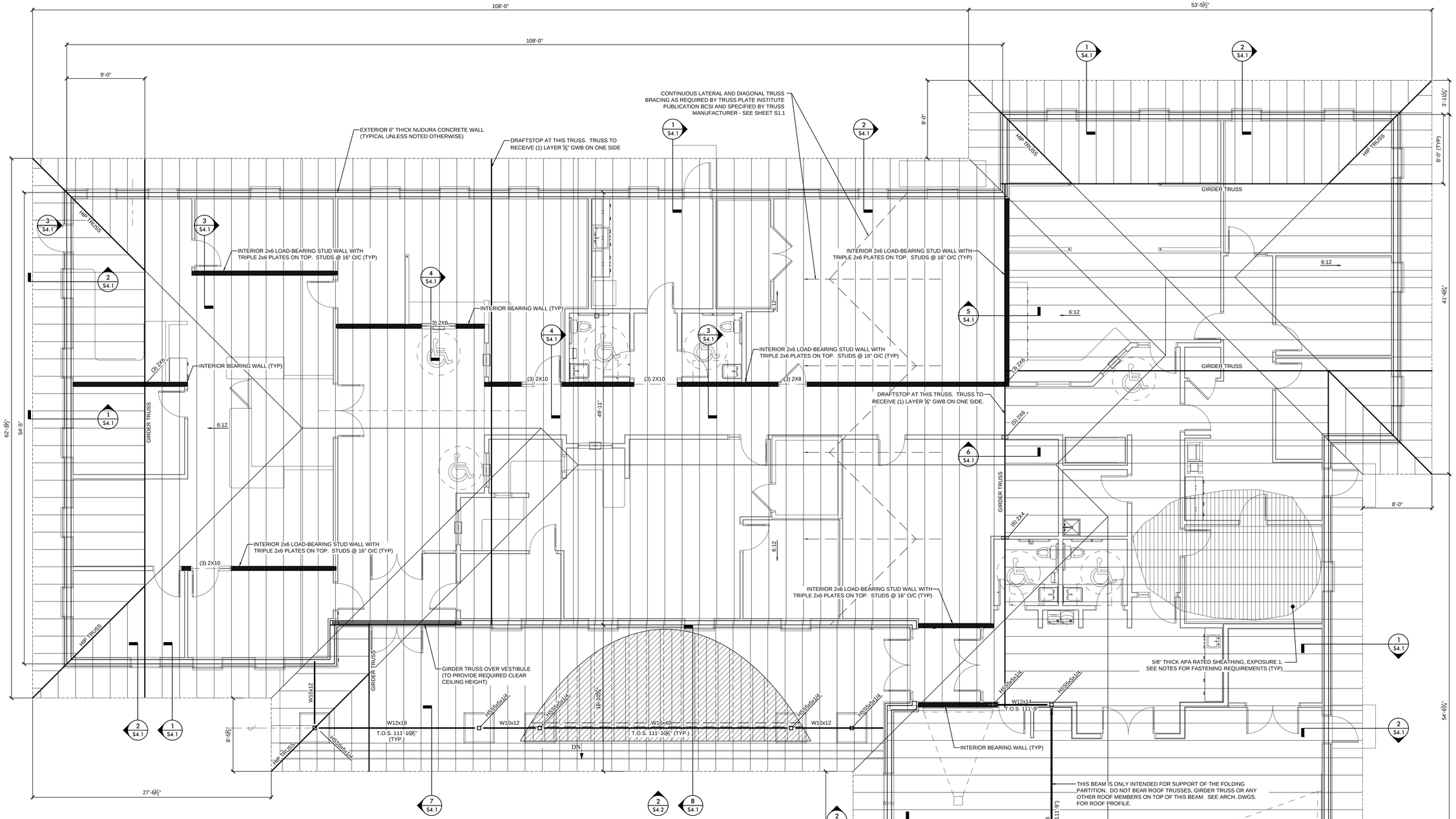

NOTES:

1. SEE SHEET S1.0 AND S1.1 FOR ADDITIONAL STRUCTURAL NOTES AND S1.2 FOR SCHEDULE OF SPECIAL INSPECTIONS.
2. SEE PLAN FOR STUD SPACING IN BEARING WALLS. ROOF TRUSSES DO NOT NEED TO ALIGN WITH STUDS. USE (3) 2X6 TOP PLATE.
3. ALL WOOD HEADERS TO BEAR ON (2) 2X6 JACK STUDS WITH (1) KING STUD, U.N.O. ON PLANS
4. ROOF SHEATHING SHALL BE ⅝" APA RATED EXPOSURE 1 ROOF SHEATHING.
5. SEE ARCHITECTURAL DRAWINGS FOR ROOF TRUSS PROFILES, EAVE DETAILS AND DIMENSIONS.
6. SIMPSON "H2.5A" HURRICANE TIES REQUIRED AT ALL TRUSS BEARING LOCATIONS.
7. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL HANGERS FOR TRUSS TO BEAM OR TRUSS TO TRUSS CONNECTIONS.
8. REFER TO TRUSS BRACING DIAGRAM ON SHEET S1.1 FOR TYPICAL TRUSS BRACING REQUIREMENTS.
9. CONTRACTOR TO PROVIDE ALL OVERFRAMING REQUIRED TO COMPLETE ROOF SLOPES.
10. BUILDING FOUNDATION HAS BEEN DESIGNED WITH NUDURA ICF CONSTRUCTION. REFER TO NUDURA SPECIFICATIONS FOR ADDITIONAL DETAILS AND BRACING REQUIREMENTS.

LINTEL SCHEDULE FOR CONCRETE NUDURA WALL	
OPENING LENGTH	BOTTOM REINFORCING STEEL
≤ 5'-0"	(1) #4 BAR
> 5'-0"	(2) #5 BARS W/ #4 STIRRUPS @ 8" O.C.

PER NUDORA, MINIMUM LINTEL REINFORCING SHALL CONSIST OF THE FOLLOWING:
-(1)#4 BAR AT TOP LOCATED 1½" FROM TOP OF LINTEL THAT EXTENDS MIN. 24" PAST EACH SIDE OF WALL OPENING.
-BOTTOM BARS ARE PER THE ABOVE SCHEDULE. CONCRETE COVER TO BE 1½" FROM BOTTOM OF LINTEL AND SHALL EXTEND MIN. 24" PAST EACH SIDE OF WALL OPENING.

1 S4.0 ROOF FRAMING PLAN
Scale: 3/16" = 1'-0"

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Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ROOF FRAMING PLAN

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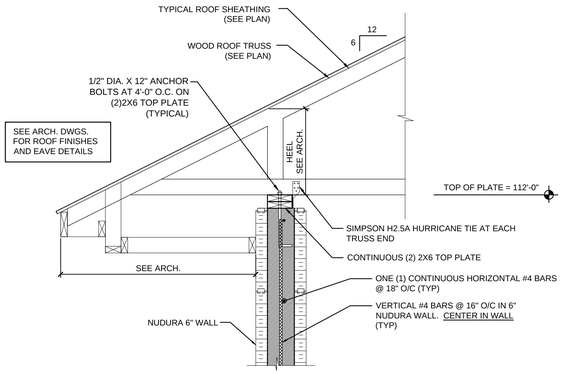
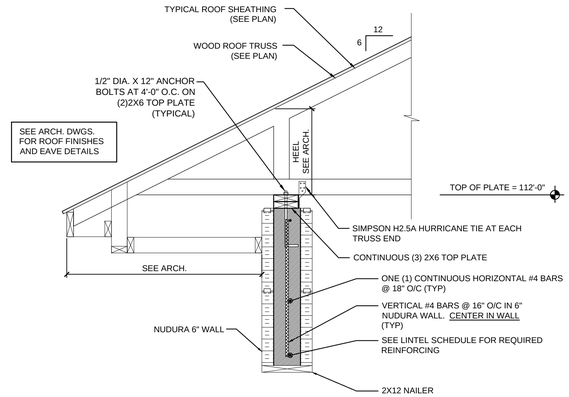
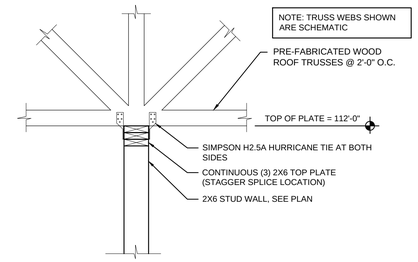


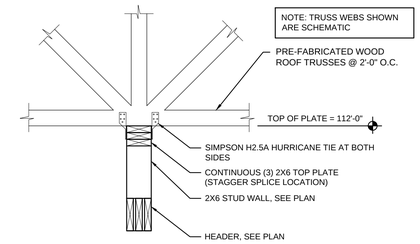
1 S4.1 ROOF SECTION AT EXTERIOR WALL
Scale : 3/4" = 1'-0"



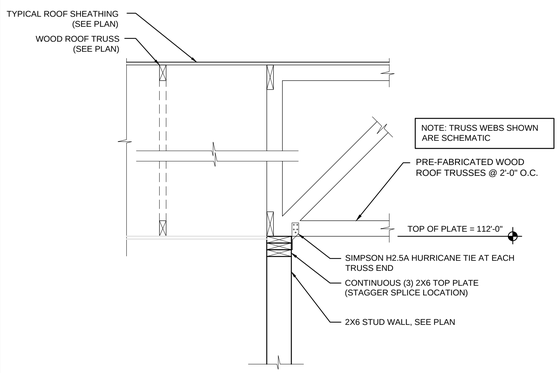
2 S4.1 ROOF SECTION AT EXTERIOR WALL OPENING
Scale : 3/4" = 1'-0"



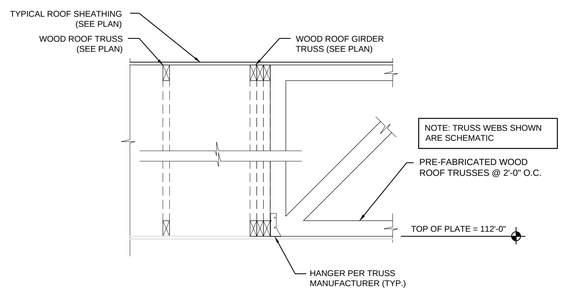
3 S4.1 ROOF SECTION AT INTERIOR WALL
Scale : 3/4" = 1'-0"



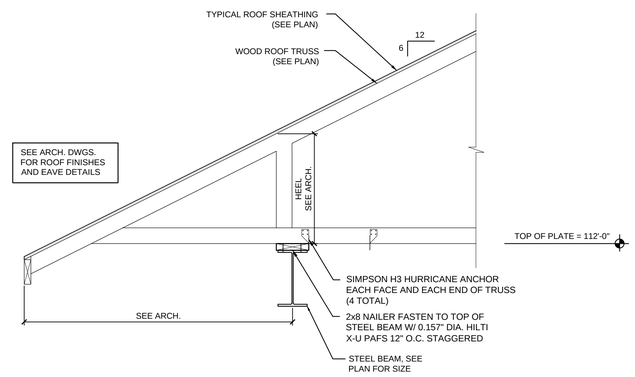
4 S4.1 ROOF SECTION AT INTERIOR WALL OPENING
Scale : 3/4" = 1'-0"



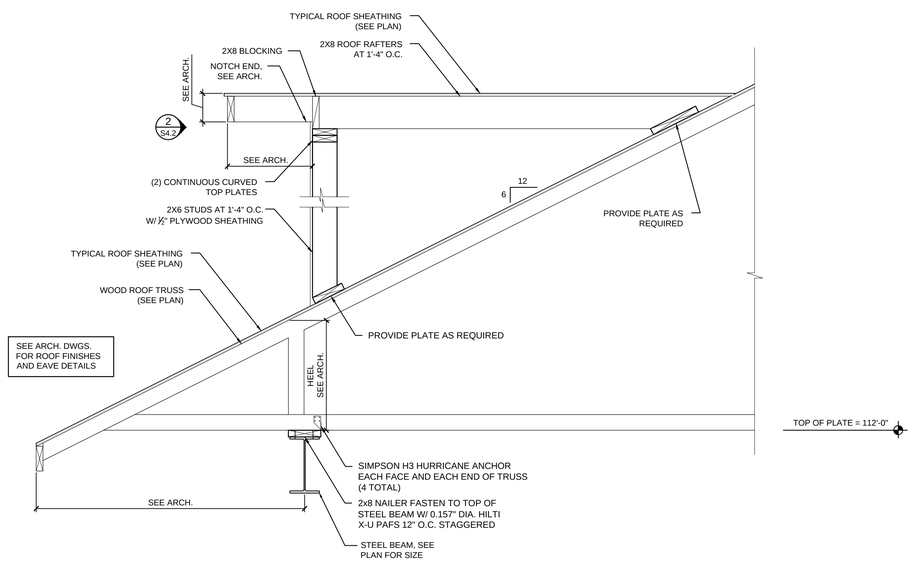
5 S4.1 ROOF SECTION AT FRAMING DIRECTION CHANGE
Scale : 3/4" = 1'-0"



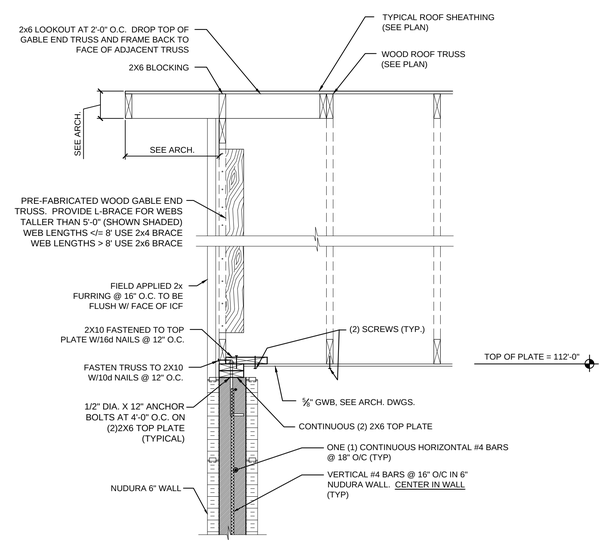
6 S4.1 ROOF SECTION AT FRAMING DIRECTION CHANGE
Scale : 3/4" = 1'-0"



7 S4.1 ROOF SECTION AT COVERED PATIO
Scale : 3/4" = 1'-0"



8 S4.1 ROOF SECTION AT CURVED GABLE OVER COVERED PATIO
Scale : 3/4" = 1'-0"



9 S4.1 ROOF SECTION AT GABLE END OVERHANG
Scale : 3/4" = 1'-0"

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Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: FOUNDATION WALL SECTION5 & DETAILS

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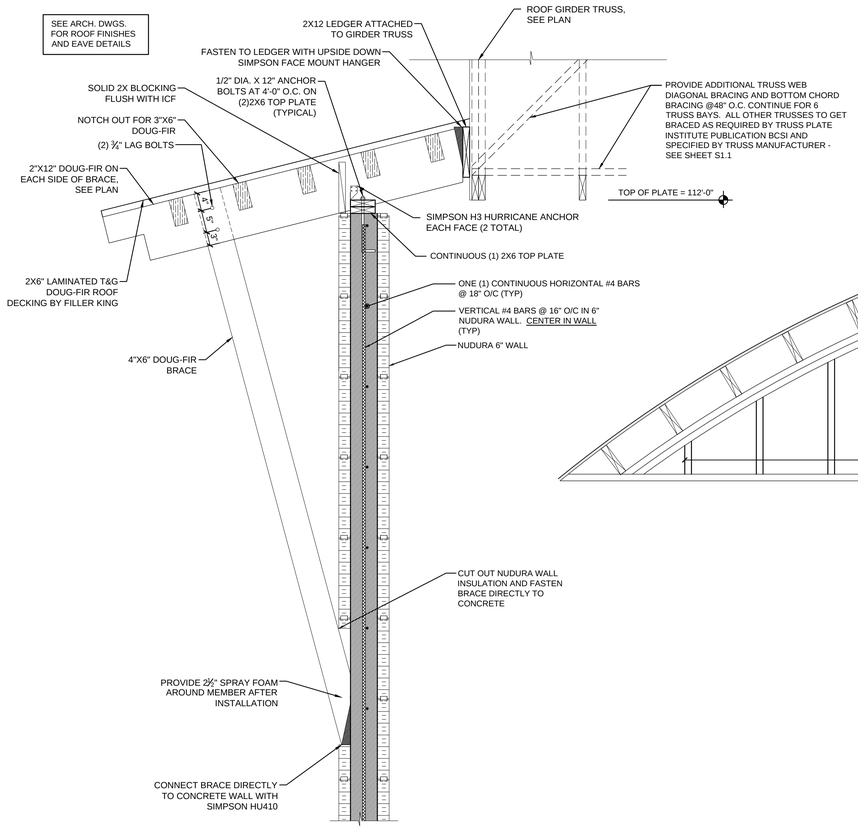
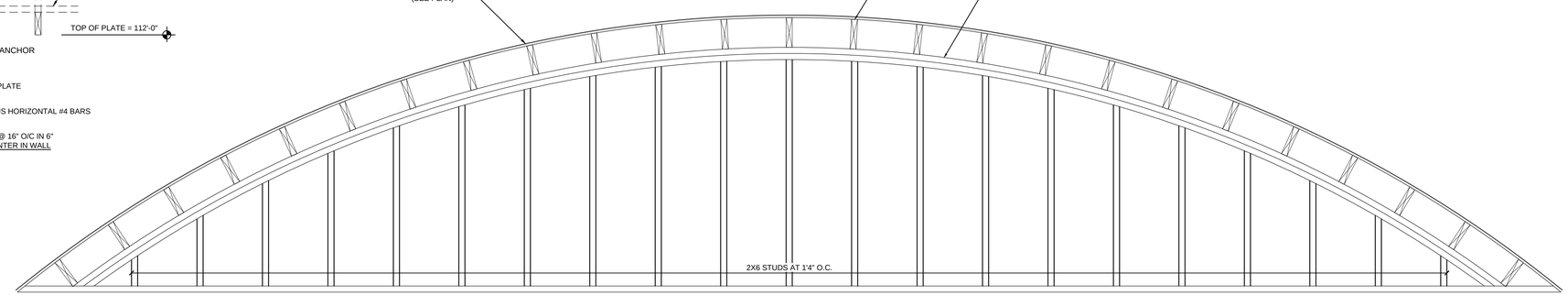
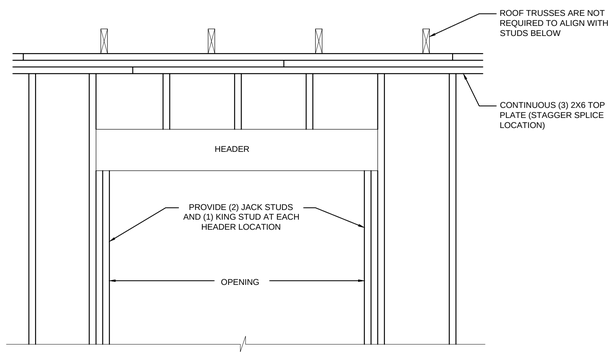


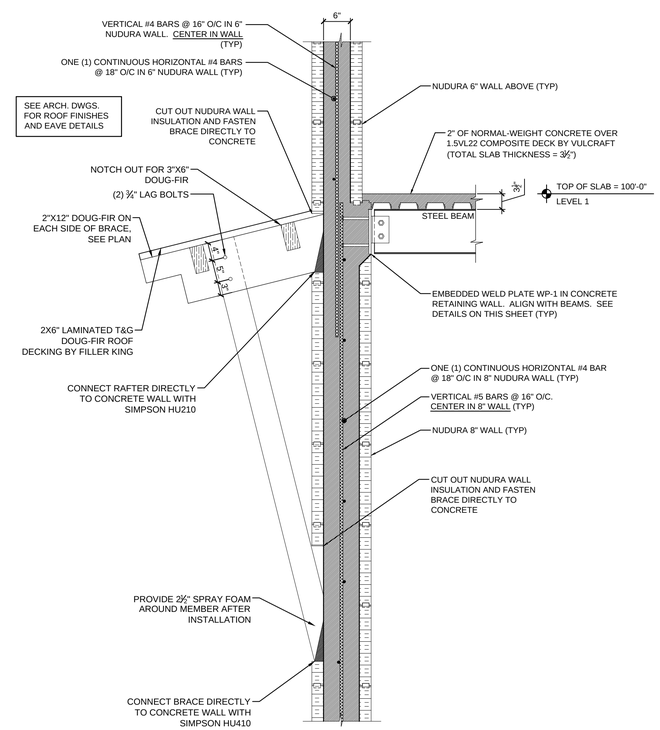
1 S4.2 ROOF SECTION AT GABLE END LOW ROOF OVERHANG
Scale : 3/4" = 1'-0"



2 S4.2 ROOF DETAIL AT CURVED GABLE
Scale : 3/4" = 1'-0"



A S4.2 FRAMING ELEVATION AT INTERIOR OPENING
Scale : 3/4" = 1'-0"



3 S4.2 ROOF SECTION AT GABLE END LOW ROOF OVERHANG
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INDEX OF DRAWINGS

NUMBERING SYSTEM:

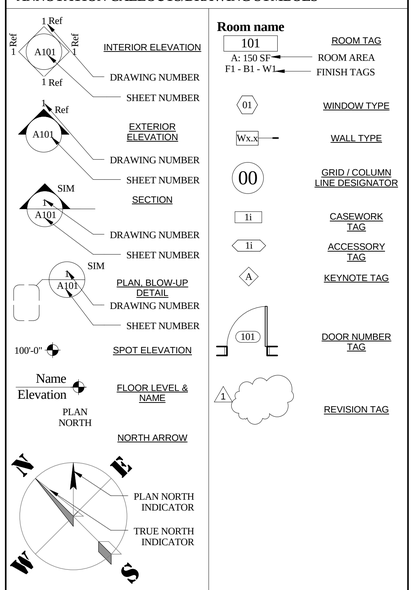
DISCIPLINE:
G - GENERAL
C - CIVIL
L - LANDSCAPE
S - STRUCTURAL
A - ARCHITECTURE
I - INTERIORS
Q - EQUIPMENT
F - FIRE PROTECTION
P - PLUMBING
M - MECHANICAL
E - ELECTRICAL
SHEET NUMBER

01/A101

NUMBER OF PLAN, DETAIL, ETC. ON SHEET

LEGEND

ANNOTATION CALLOUTS/DRAWING SYMBOLS



CODE SUMMARY

1. PROJECT SUMMARY:

Project consists of a new one story 10,000 sf +/- building with partial walk-out storage basement. Project includes all sitework, utilities, excavation, retaining walls, ICF foundations and exterior walls, interior framing and GWB, roof trusses, insulation, storefront doors, fiberglass windows, siding, painting mechanical and electrical systems. Building is non-sprinklered.

2. APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO:

BUILDING CODE: IBC 2009
LIFE SAFETY CODE: NFPA 101, 2009
ENERGY CODE: IEC, 2009
NH BARRIER FREE CODE
NH CODE AMENDMENTS

3. OCCUPANCY/USE GROUPS:

Separated Mixed use
- Office areas : B, Business
- Meeting Room : A3, Assembly
- Lower Level : S2, Storage

4. CONSTRUCTION CLASSIFICATION: 5B

5. BUILDING HEIGHT:

PROPOSED BUILDING 31'-6" (ridge), 1 STORY,
GRADE PLANE: 1'-0" BELOW FIRST FLOOR
BASEMENT: YES (Partial, walk-out)

ALLOWABLE ADJUSTED BUILDING HEIGHT: 40'-0" , 1 Story
ALLOWABLE HEIGHT PER TOWN REGULATIONS = 35'-0"

6. BUILDING AREA:

LOWER LEVEL AREA:	1,447 gsf
MAIN LEVEL:	10,104 gsf
TOTAL BUILDING AREA:	11,551 gsf

TABLE 503: ALLOWABLE AREA;
- BUSINESS = 9,000 SF
- ASSEMBLY = 6,000 SF
- STORAGE = 13,500 SF

7. OCCUPANT CAPACITY:

SEE CODE ANALYSIS KEY PLANS FOR ROOM OCCUPANT LOADS.

OCCUPANT LOAD PER FLOOR:

LOWER LEVEL:	3 Occupants
MAIN LEVEL; OFFICES:	81 Occupants
MAIN LEVEL; ACCESSORY USE STORAGE	4 Occupants
MAIN LEVEL; MEETING ROOM:	83 Occupants

NOTE: Meeting room use is not concurrent with office occupancy

8. EGRESS/ TRAVEL DISTANCES:

EXITS REQUIRED, BUILDING = 2
EXITS REQUIRED, MEETING RM = 2, When open as 1 room
EXITS REQUIRED, LOWER LEVEL = 2

EGRESS WIDTH:	44 INCHES
ALLOWABLE TRAVEL DISTANCE:	
- Office areas : B, Business	200 Feet
- Meeting Room : A3, Assembly	200 Feet
- Lower Level : S2, Storage	200 Feet
ALLOWABLE DEAD END CORRIDOR:	
- Office areas : B, Business	20 Feet
- Meeting Room : A3, Assembly	20 Feet
- Lower Level : S2, Storage	50 Feet
ALLOWABLE COMMON PATH OF TRAVEL:	
- Office areas : B, Business	75 Feet
- Meeting Room : A3, Assembly`	20 Feet (over 50 ppl)
- Lower Level : S2, Storage	50 Feet

9. FIRE RESISTANCE RATINGS:

IBC TABLE 601 AND CHAPTER 7

PRIMARY STRUCTURAL FRAME	0 HOUR
BEARING WALLS, EXTERIOR	0 HOUR
BEARING WALLS, INTERIOR	0 HOUR
EXTERIOR PARTITIONS	0 HOUR BASED ON FIRE SEPARATION
INTERIOR PARTITIONS	0 HOUR
FLOOR CONSTRUCTION	0 HOUR - 2-HR PER FIRE BARRIER/SEPARATION REQUIREMENTS
ROOF CONSTRUCTION	0 HOUR
CORRIDORS	1 HOUR
MECHANICAL ROOMS	0 HOUR
FIRE WALLS (706)	0 HOUR - N/A
FIRE BARRIERS (707)	2 HOUR
SHAFT ENCLOSURES	1 HOUR - N/A
FIRE PARTITIONS	0 HOUR
SMOKE BARRIERS	- HOUR - N/A
SMOKE PARTITIONS	- HOUR - N/A
HORIZONTAL ASSEMBLIES	2 HOUR @ FLOOR OF MEETING ROOM
DRAFTSTOPPING REQUIREMENTS	
- CONCEALED SLEEPER SPACES	N/A
- IN FLOORS	N/A
- IN ATTICS	REQUIRED - 3,000 SF MAX AREA (717.4.3)

10. OPENING PROTECTIVES:

CORRIDOR OPENINGS: 1/3 HOUR (715.4)
- GLAZING IN DOORS IN CORRIDORS, INCLUDING SIDELIGHTS TO BE 2O MIN. RATED AND MEET HOSESTREAM TEST (715.4.3.2)
- SIDELIGHTS AND TRANSOMS ACCEPTABLE (715.4.5)

11. INTERIOR FINISHES:

WALL AND CEILING FINISHES - TABLE 803.9

- EXIT ENCLOSURES	CLASS A
- CORRIDORS	CLASS A
- LOBBIES	CLASS B
- ROOMS	CLASS C

12. FIRE PROTECTION SYSTEMS:

SPRINKLER SYSTEM REQUIRED?	NO
SPRINKLER SYSTEM PROVIDED?	NO
PORTABLE FIRE EXTINGUISHERS	YES
- MAXIMUM FLOOR AREA	11,250 SF
- MAX. TRAVEL DISTANCE	75 FEET

13. ACCESSIBILITY:

TOWN OFFICE REQUIRED TO BE FULLY ACCESSIBLE
RAMPS:
1:12 MAX. SLOPE WITH HANDRAILS EACH SIDE
1:20 MAX SLOPE WITH NO HANDRAILS

DOORS:
- 36" WIDE MIN. (32" CLEAR SPACE WHEN OPEN 90 DEGREES
- 18" CLEAR WIDTH FROM LATCH ON PULL SIDE
- 12" CLEAR WIDTH FROM LATCH ON PUSH SIDE
- POWER OPERATORS WITH PUSH BUTTONS REQUIRED AT EXTERIOR OF VESTIBULE DOORS

RESTROOMS:
- SINGLE USE ROOMS ALL REQUIRED TO BE ACCESSIBLE
- 60" DIAMETER CLEAR FLOOR SPACE
- CLEAR SPACE AT FIXTURES
- DOORS MAY SWING INTO ROOM (SECTION 603.2.3 EXC. 2)

SERVICE WINDOWS:
- PARALLEL APPROACH IS ACCEPTABLE
- 36" LONG COUNTER
- COUNTER TO BE 36" MAX. AFF
- 30x48" CLEAR FLOOR SPACE (SECTION 305)

MEETING ROOM:
- 75 SEATS - 4 WHEELCHAIR SPACES ARE REQUIRED (221.2.1.1)

GENERAL CODE PLAN NOTES:

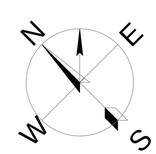
1. SEE DOOR SCHEDULE FOR OPN'G PROTECTION REQUIREMENTS.
2. MECHANICAL, ELECTRICAL & PLUMBING SUBCONTRACTORS TO COMPLY W/ FIREBLOCKING & FIRESTOPPING
3. ALL SEMI-RECESSED OR RECESSED FIRE EXTINGUISHER CABINETS SHALL BE U.L. LISTED WITH A RATING EQUIVALENT TO THE RATING OF THE WALL IN WHICH IT IS LOCATED. FINAL LOCATIONS TO BE VERIFIED BY LOCAL FIRE DEPT.
4. A KNOX BOX & RED JELLY JAR LIGHT & IS TO BE LOCATED AT EACH OF THE PRINCIPLE ENTRANCE/ EXIT DOORS. FINAL LOCATIONS TO BE VERIFIED BY LOCAL FIRE DEPT.
5. 1-HR RATED CORRIDOR IS "FIRE PARTITION" 1018.1
6. SEE SHEET A001 FOR WALL TYPES AND GENERAL WALL PARTITION NOTES.

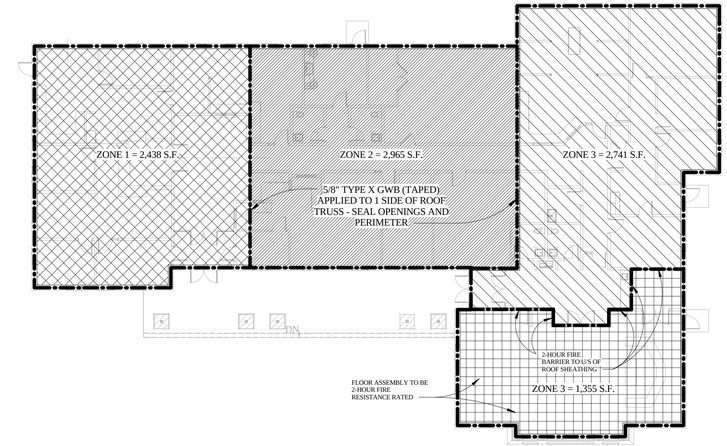
CODE PLAN LEGEND:

	SMOKE SEPERATION
	1 HR RATED SEPERATION
	2 HR RATED SEPERATION
	MAXIMUM TRAVEL PATH
F.E.C.	SEMI-RECESSED FIRE EXTINGUISHER CABINET
F.E.	FIRE EXTINGUISHER ON BRACKET

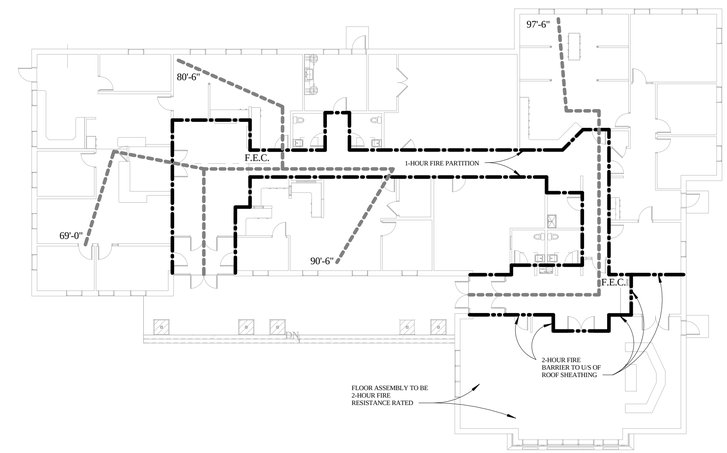
PLAN ORIENTATION:

PLAN NORTH

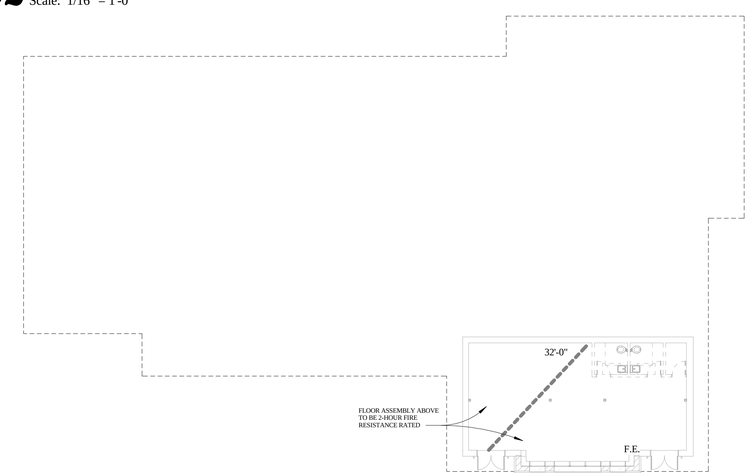




03 ATTIC DRAFTSTOPPING PLAN
Scale: 1/16" = 1'-0"



02 MAIN FLOOR - CODE ANALYSIS PLAN
Scale: 1/16" = 1'-0"



01 LOWER FLOOR - CODE ANALYSIS PLAN
Scale: 1/16" = 1'-0"

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
CODE ANALYSIS PLANS

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A001

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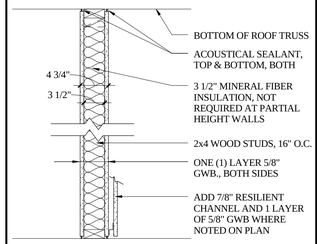
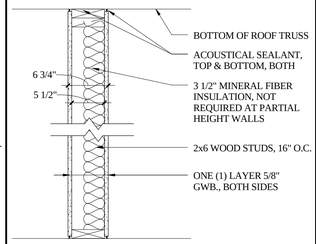
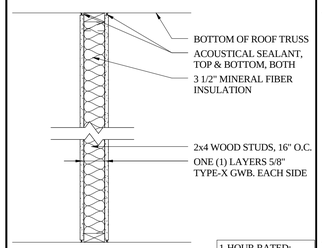


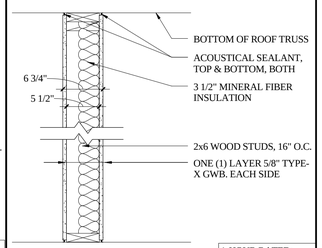
W4 PARTITION TYPE
SCALE: 1" = 1'-0"



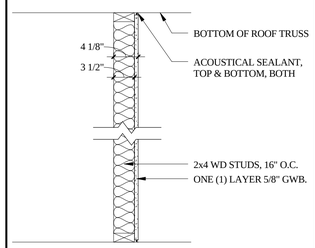
W6 PARTITION TYPE
SCALE: 1" = 1'-0"



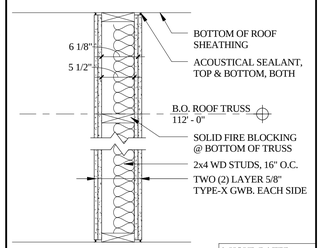
W4.1 PARTITION TYPE — 1-HOUR RATED: UL ASSEMBLY U-305
SCALE: 1" = 1'-0"



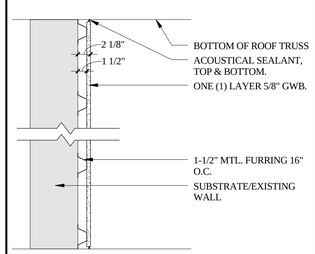
W6.1 PARTITION TYPE — 1-HOUR RATED: UL ASSEMBLY U-305
SCALE: 1" = 1'-0"



F1 PARTITION TYPE
SCALE: 1" = 1'-0"



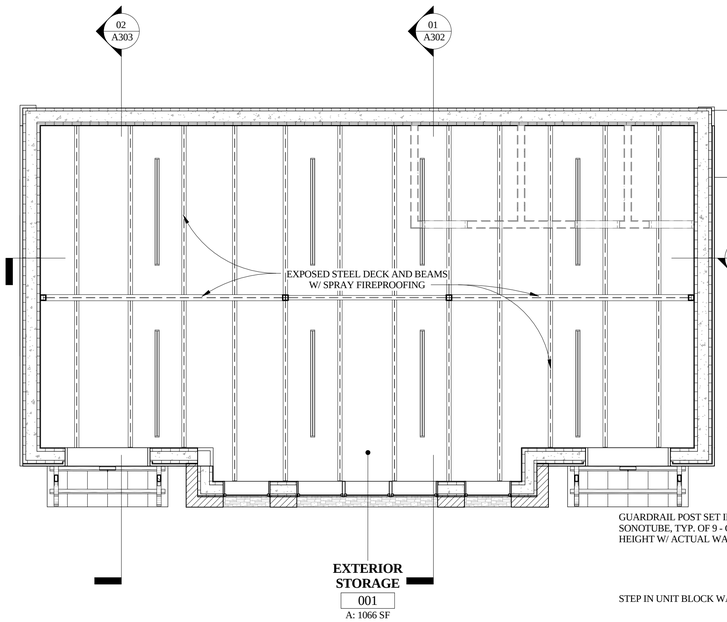
W6.2 PARTITION TYPE — 2-HOUR RATED: UL ASSEMBLY U-301
SCALE: 1" = 1'-0"



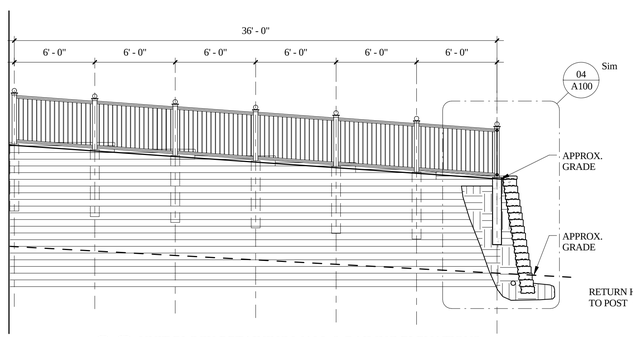
F2 PARTITION TYPE
SCALE: 1" = 1'-0"

PARTITION NOTES:

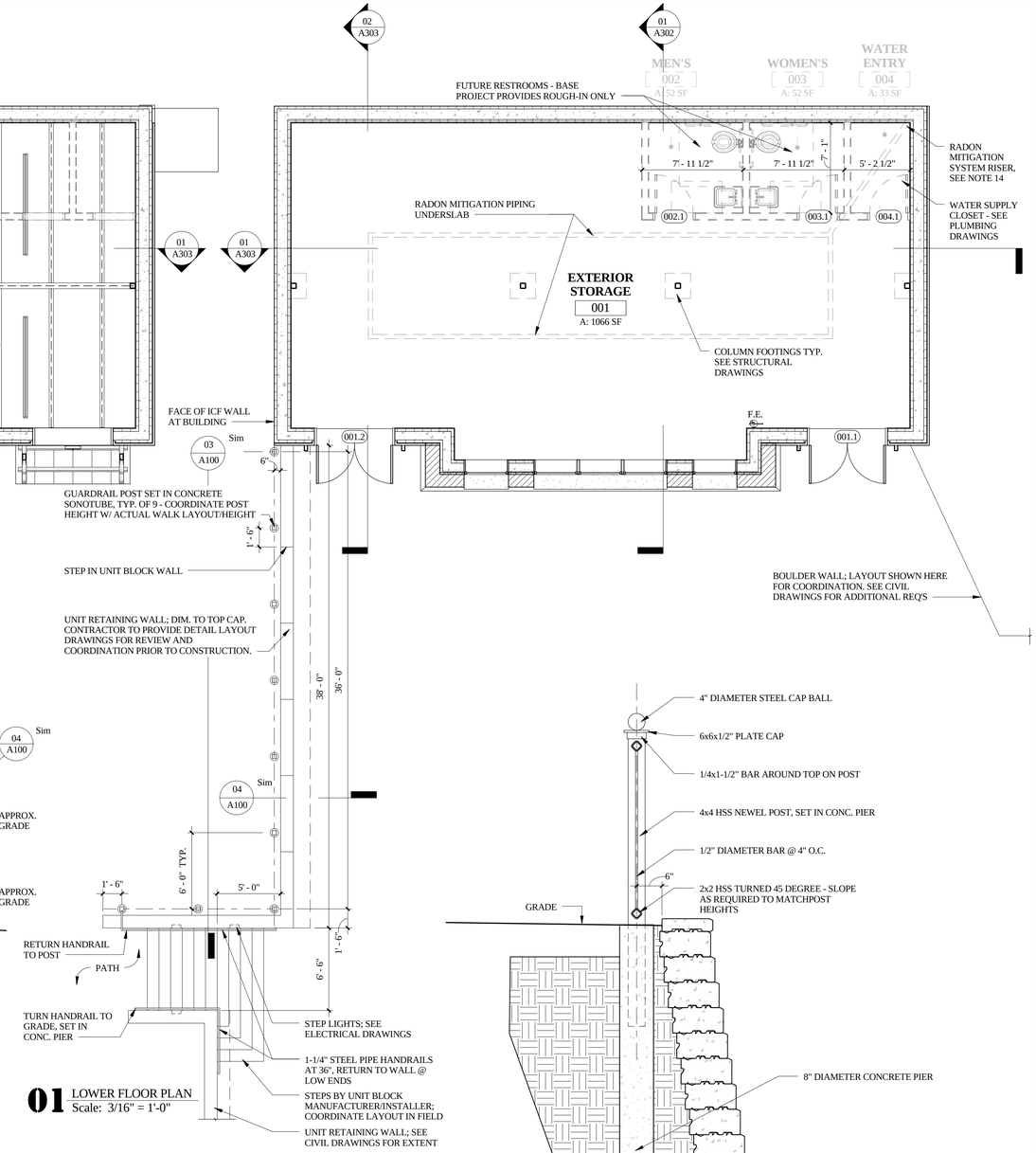
1. ALL RATED WALLS & SMOKE BARRIERS TO EXTEND TO HORIZONTAL RATED ASSEMBLY OR ROOF DECK ABV. SEAL ALL PENETRATIONS, DECK FLUTES, ETC. AS REQ.: FIRESTOP @ RATED WALLS, FOAM INSULATION @ OTHERS.
2. ALL RATED WALLS SHALL BE EFFECTIVELY & PERMANENTLY IDENTIFIED BY STENCILING THE FOLLOWING "FIRE &/OR SMOKE BARRIER - PROTECT ALL OPENINGS", LETTERING SHOULD BE 1/2" HIGH & STATEMENT SHALL OCCUR 30' - 0" ALONG WALL. LETTERING SHALL BE PLACED @ TOP OF WALL ABOVE CEILINGS OR IN ATTIC SERVICE AREAS.
3. AT WALLS INDICATED TO RECEIVE TILE PROVIDE 5/8" CEMENT BOARD, OR TILE BACKER BOARD, IN LIEU OF GWB. INDICATED ON PARTITION TYPE.
4. AT REST ROOMS & BEHIND COUNTERS W/ SINK NOT INDICATED TO RECEIVE TILE, PROVIDE M.R. GWB. IN LIEU OF GWB INDICATED ON PARTITION TYPE.
5. PROVIDE GWB CONTROL JOINTS, SPACED AS SHOWN ON PLAN OR MAX. 20' - 0" DISTANCE.



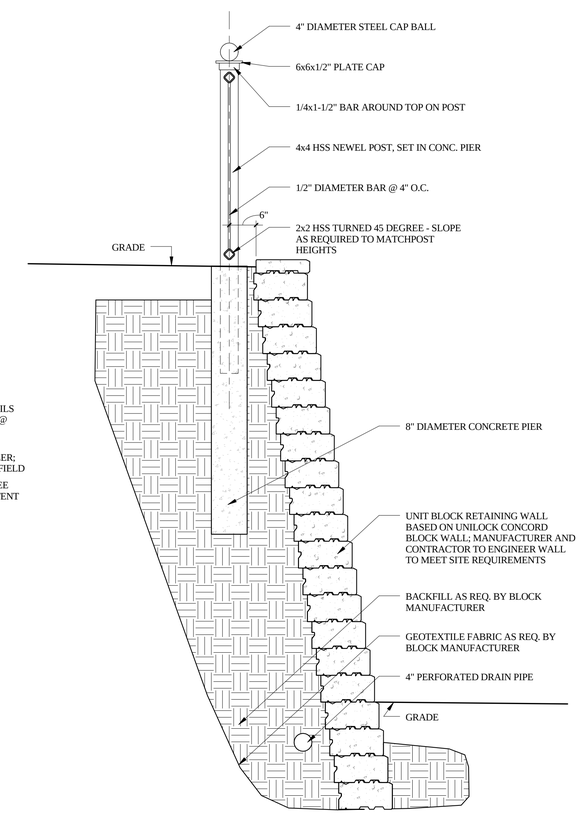
02 LOWER LEVEL RCP
Scale: 3/16" = 1'-0"



03 UNIT BLOCK RETAINING WALL & RAILING ELEVATIONS
Scale: 3/16" = 1'-0"



01 LOWER FLOOR PLAN
Scale: 3/16" = 1'-0"



04 UNIT BLOCK & RAILING SECTION
Scale: 3/4" = 1'-0"

GENERAL PLAN NOTES:

1. REFERENCE ELEVATION = 100' - 0"
2. SEE A100 FOR WALL TYPES
3. SEE CIVIL PLANS FOR SITE INFORMATION
4. SEE STRUCTURAL PLANS FOR STRUCTURAL DETAILS, LINTEL SIZES & NOTES
5. SEE MECHANICAL DRAWINGS FOR EQUIPMENT AND DUCT SIZES AND LOCATIONS
6. ALL DIMENSIONS ARE GIVEN TO FACE OF EXISTING WALL FINISH, FACE OF STUDS, FACE OF MASONRY OR MASONRY OPENING, FACE OF ICF, CENTER OF STEEL AND CENTER OF WINDOW OPENING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCY BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS IS TO BE PROMPTLY COMMUNICATED TO ARCHITECT FOR CLARIFICATION.
7. ALL DOORS TO BE INSTALLED WITH HINGE SIDE 4" FROM NEAREST INSIDE CORNER, UNLESS OTHERWISE NOTED
8. PROVIDE BLOCKING AS REQUIRED FOR ACCESSORIES, CABINETS, SHELVES, ETC.
9. PROVIDE FIREBLOCKING/FIRESTOPPING AS REQ. AT PENETRATIONS IN RATED WALLS/CEILINGS, TYP. REFER TO CODE PLAN FOR EXTENT OF RATED ENCLOSURES AND FIRE/SMOKEPROOFING.
10. PROVIDE LOW PRESSURE SPRAY FOAM INSULATION AROUND ALL DOORS, WINDOWS, ETC., WHERE NECCESSARY IN EXTERIOR WALLS TO MEET AIR INFILTRATIONS REQUIREMENTS, SEE SPECIFICATIONS.
11. PROVIDE SEALANT AS REQUIRED AT TRIM, WINDOWS, ETC., TYP.
12. ALL EXTERIOR CONCRETE PADS SHALL PITCH AWAY FROM BUILDING 1/4" PER FT. UNLESS OTHERWISE NOTED.
13. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY QUESTIONS/CLARIFICATIONS REGARDING NOTATIONS, DETAILS, ETC. PRIOR TO INSTALLATION.
14. RADON MITIGATIONS IS DIAGRAMMATIC ONLY; CONTRACTOR TO PROVIDE SYSTEM ON A DESIGN/BUILD BASIS.
15. NOT USED
16. SECURITY GATE BASED ON CORNELL VISION GLIDE "STRAIGHT" MEDEL ESG-30, CLEAR ANODIZED 12" LINK SIDE FLODING GRILLE W/ POCKET DOOR AND HEAD TRACK, HOOK BOLT LOCKING CYLINDERS ONE SIDE.
17. MANUALLY OPERABLE PARTITION BASED ON: MODERNFOLD, ACOUSTI-SEAL ENCORE, SEE SPECIFICATIONS. SEE ALSO ALTERNATE #3.

PLAN LEGEND:

STRUCTURAL GRID LINE

NEW DOOR AND FRAME

PLAN ORIENTATION

PLAN NORTH

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
LOWER FLOOR PLAN/RCP & WALL TYPES

ISSUED FOR: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: CV
CHECKED BY: JL
DATE: 12/11/2015

REVISION	DATE

SHEET NUMBER:
A100

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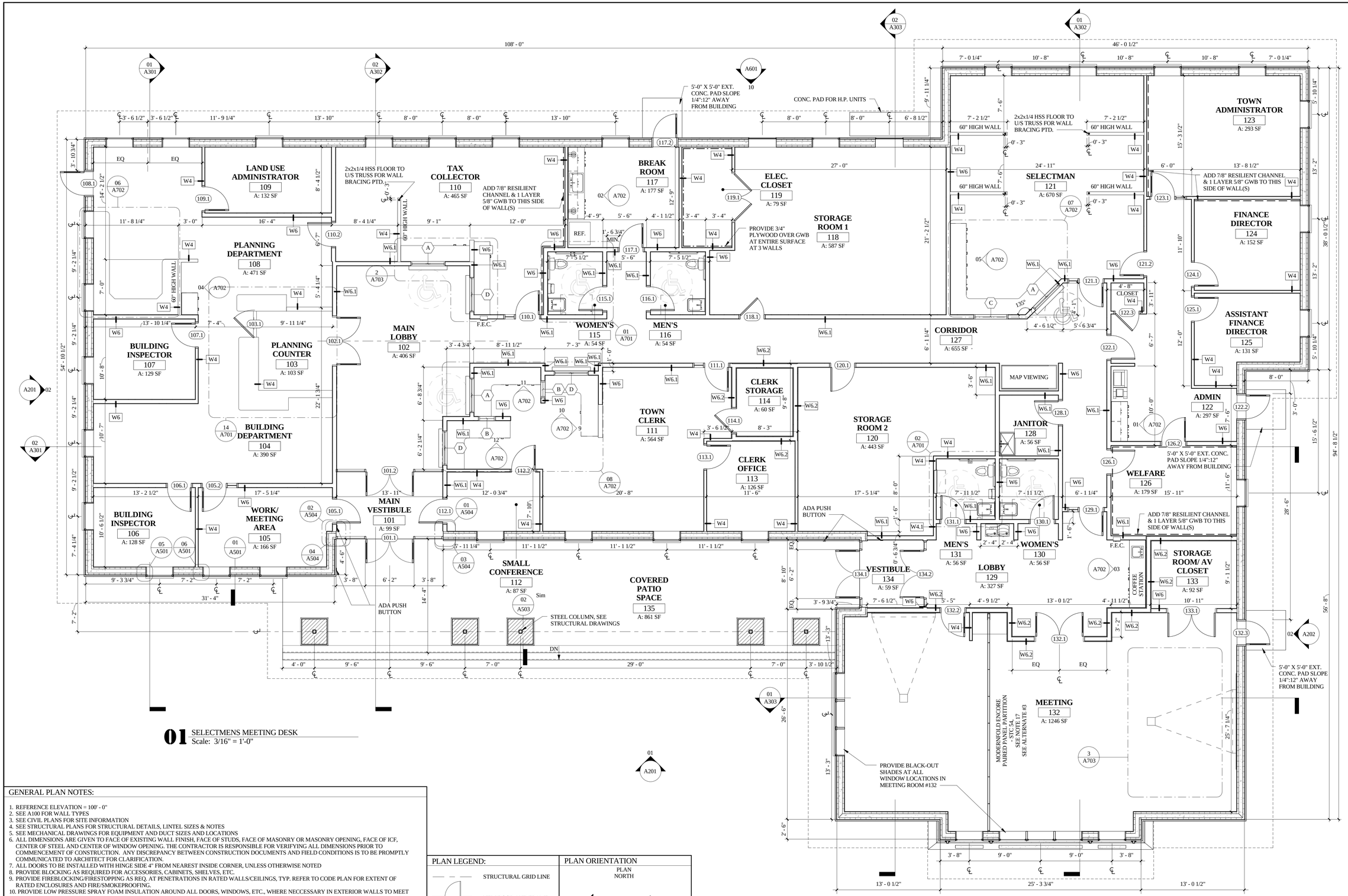

01 SELECTMENS MEETING DESK
Scale: 3/16" = 1'-0"

GENERAL PLAN NOTES:

1. REFERENCE ELEVATION = 100' - 0"
2. SEE A100 FOR WALL TYPES
3. SEE CIVIL PLANS FOR SITE INFORMATION
4. SEE STRUCTURAL PLANS FOR STRUCTURAL DETAILS, LINTEL SIZES & NOTES
5. SEE MECHANICAL DRAWINGS FOR EQUIPMENT AND DUCT SIZES AND LOCATIONS
6. ALL DIMENSIONS ARE GIVEN TO FACE OF EXISTING WALL FINISH, FACE OF STUDS, FACE OF MASONRY OR MASONRY OPENING, FACE OF ICF, CENTER OF STEEL AND CENTER OF WINDOW OPENING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCY BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS IS TO BE PROMPTLY COMMUNICATED TO ARCHITECT FOR CLARIFICATION.
7. ALL DOORS TO BE INSTALLED WITH HINGE SIDE 4" FROM NEAREST INSIDE CORNER, UNLESS OTHERWISE NOTED
8. PROVIDE BLOCKING AS REQUIRED FOR ACCESSORIES, CABINETS, SHELVES, ETC.
9. PROVIDE FIREBLOCKING/FIRESTOPPING AS REQ. AT PENETRATIONS IN RATED WALLS/CEILINGS, TYP. REFER TO CODE PLAN FOR EXTENT OF RATED ENCLOSURES AND FIRE/SMOKEPROOFING.
10. PROVIDE LOW PRESSURE SPRAY FOAM INSULATION AROUND ALL DOORS, WINDOWS, ETC., WHERE NECCESSARY IN EXTERIOR WALLS TO MEET AIR INFILTRATIONS REQUIREMENTS, SEE SPECIFICATIONS.
11. PROVIDE SEALANT AS REQUIRED AT TRIM, WINDOWS, ETC., TYP.
12. ALL EXTERIOR CONCRETE PADS SHALL PITCH AWAY FROM BUILDING 1/4" PER FT. UNLESS OTHERWISE NOTED.
13. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY QUESTIONS/CLARIFICATIONS REGARDING NOTATIONS, DETAILS, ETC. PRIOR TO INSTALLATION.
14. RADON MITIGATIONS IS DIAGRAMMATIC ONLY; CONTRACTOR TO PROVIDE SYSTEM ON A DESIGN/BUILD BASIS.
15. NOT USED
16. SECURITY GATE BASED ON CORNELL VISION GLIDE "STRAIGHT" MEDEL ESG-30, CLEAR ANODIZED 12" LINK SIDE FLODING GRILLE W/ POCKET DOOR AND HEAD TRACK, HOOK BOLT LOCKING CYLINDERS ONE SIDE.
17. MANUALLY OPERABLE PARTITION BASED ON: MODERNFOLD, ACOUSTI-SEAL ENCORE, SEE SPECIFICATIONS. SEE ALSO ALTERNATE #3.

PLAN LEGEND:	PLAN ORIENTATION
STRUCTURAL GRID LINE	PLAN NORTH
NEW DOOR AND FRAME	

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: MAIN FLOOR PLAN

ISSUED FOR: BID & CONSTRUCTION SET

JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A101

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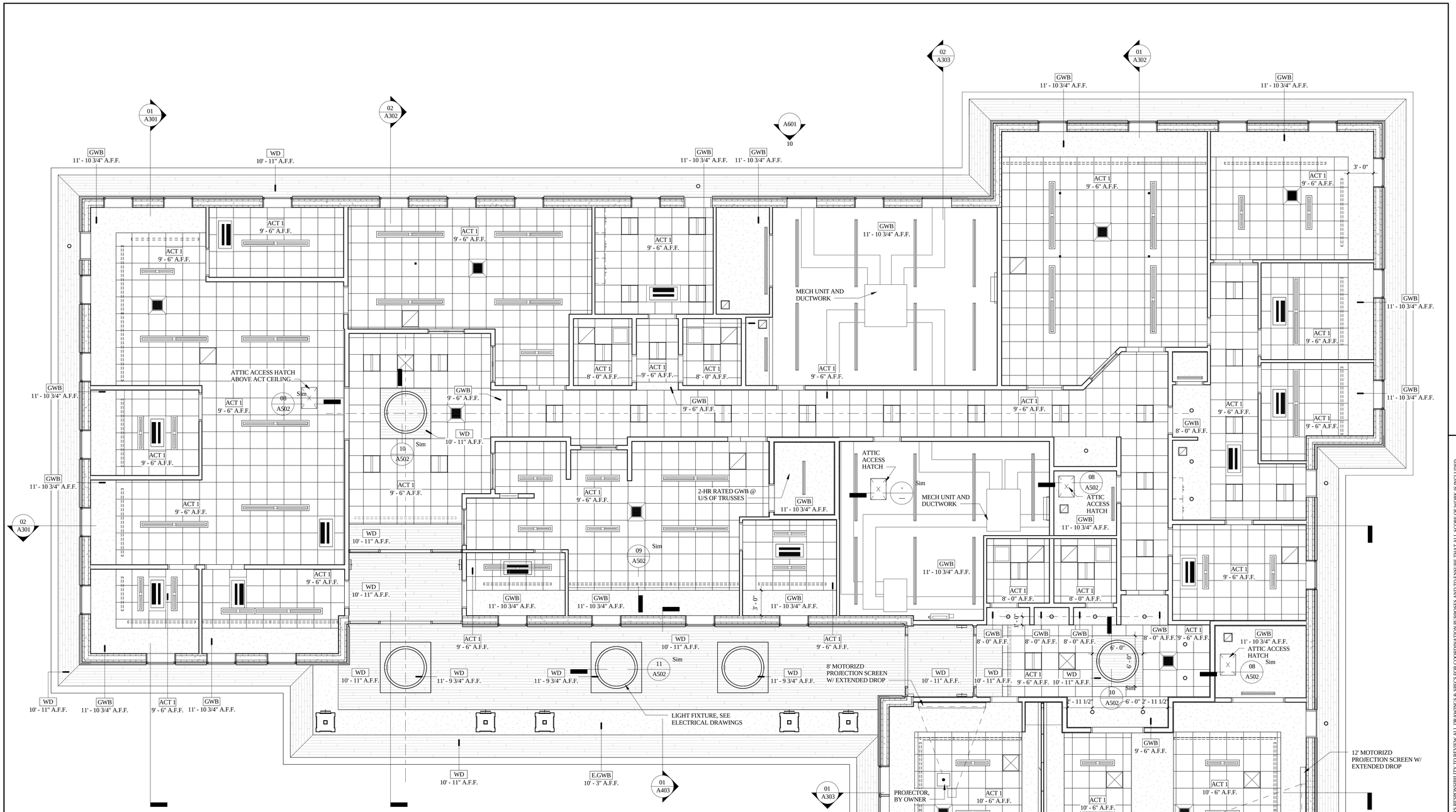

01 LEVEL 1 - REFLECTED CEILING PLAN
Scale: 3/16" = 1'-0"

GENERAL RCP NOTES:

1. ALL EXPOSED GWB SURFACES SHALL RECEIVE A LEVEL 5 FINISH AND BE PAINTED.
2. GWB CONCEALED ABOVE CEILINGS @ UNDERSIDE OF TRUSS TO RECEIVE A LEVEL 2 FINISH.
3. REFER TO ELECTRICAL DWGS. FOR FIXTURE TYPE, FIXTURE SIZE, MOUNTING, AND FIXTURES NOT SHOWN IN THIS DRAWING.
4. REFER TO MECHANICAL DWGS. FOR DUCT AND REGISTER SIZE, AND ITEMS NOT SHOWN IN THIS DRAWING.
5. AT RECTANGULAR MECH. UNITS, REMOVE CEILING GRID CROSS BAR AND PROVIDE 2x4 OF SAME TYPE AS 2x2. CENTER MECH. UNIT IN TILE.
6. PROJECTOR, SCREEN SIZE AND LOCATION TO BE CONFIRMED W/ OWNER AND A/V VENDOR.

REFLECTED CEILING PLAN LEGEND:

- STRUCTURAL GRID LINE
- NEW GYP. BD. CEILING
- NEW ACOUSTIC TILE SUSPENDED CEILING SYSTEM ACOUSTIC TILE
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- 2' x 2' MECHANICAL UNIT
- 39.5" x 18.5" MECHANICAL UNIT
- 2' x 2' RADIANT CEILING PANEL
- 4' & 8' LIGHT FIXTURE
- 2' x 2' RECESSED LIGHT FIXTURE
- 4' PENDANT LIGHT FIXTURE
- 8' PENDANT LIGHT FIXTURE
- COVE/STRIP LIGHT FIXTURE ABV.
- SEMI-RECESSED WALL MOUNTED LIGHT FIXTURE
- 5' DIAMETER LIGHT FIXTURE

PLAN ORIENTATION:

PLAN NORTH

N E S W

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NOTE: IT IS THE G.C.'S, CM'S AND SUB-CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
MAIN FLOOR - REFLECTED CEILING PLAN

ISSUED FOR: BID & CONSTRUCTION SET

JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A102

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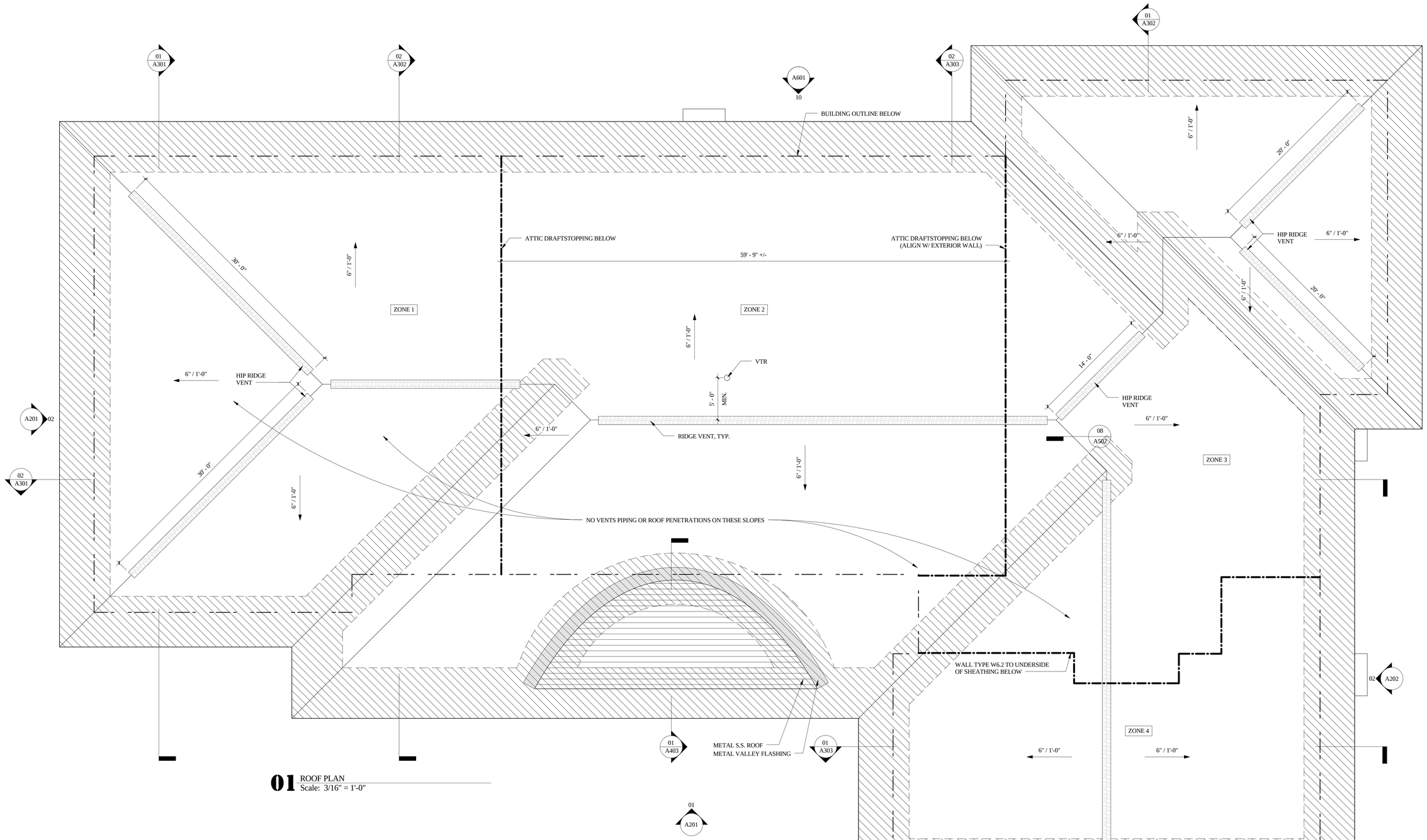

01 ROOF PLAN
Scale: 3/16" = 1'-0"

GENERAL NOTES:

1. PROVIDE BLACK ABS VENT PIPES FOR ALL PLUMBING VENTS, VERIFY LOCATIONS IN FIELD.
2. PROVIDE FLASHING KITS AS REQUIRED FOR ALL ASPHALT SHINGLE ROOF(S), TYP. FOR ALL VENTS.
3. ROOF VENTS BASED ON MODEL IR65 BY GAF, COLOR TO MATCH ROOFING.
4. PROVIDE ALUM. FLASHING THROUGHOUT, COLOR TO BE SELECTED BY OWNER.
5. PROVIDE 36" MIN. ICE & WATER SHIELD AT LOW EAVES, VALLEYS AND ROOF TRANSITIONS.
6. PROVIDE ROOF ACCESSORIES AS REQ'D FOR MECHANICAL EXHAUST.
7. PROVIDE CORROSION RESISTANT WIRE CLOTH SCREENING TO PREVENT ENTRY OF BIRDS, RODENTS, SQUIRRELS, ETC. @ ALL VENT LOCATIONS.
8. SEE CODE ANALYSIS PLAN FOR ATTIC DRAFTSTOPPING LOCATIONS. LOCATION SHOWN ON THIS PLAN ARE APPROXIMATE ONLY.

ROOF SYMBOL LEGEND:

- ICE AND WATER SHIELD 6' (TYP.) AT EAVES 3' LATERALLY ON EACH SIDE OF VALLEY.
- VENT TO ROOF
- ROOF VENT (RV)
- STANDING SEAM MTL. ROOF

ROOF VENTING CALCULATIONS:

SOFFIT EDGE VENT = 8.9 SI/LF (THE EDGE VENT BY AIR VENT INC.)
RIDGE VENT = 18 SI/LF (COBRA 3 VENT BY GAF)
HIP RIDGE VENT = 9 SI/LF (COBRA HIP VENT BY GAF)

ZONE #1: 2,438 SF
VENT AREA REQ. = 1,171 SI
VENT AREA PROVIDED ABV. 3'-0" = 828 SI
VENT AREA PROVIDED BELOW 3'-0" = 1210 SI

ZONE #2: 2,965 SF
VENT AREA REQ. = 1,424 SI
VENT AREA PROVIDED ABV. 3'-0" = 918 SI
VENT AREA PROVIDED BELOW 3'-0" = 979 SI

ZONE #3: 2,741 SF
VENT AREA REQ. = 1,316 SI
VENT AREA PROVIDED ABV. 3'-0" = 972 SI
VENT AREA PROVIDED BELOW 3'-0" = 1,041 SI

ZONE #2: 1,355 SF
VENT AREA REQ. = 651 SI
VENT AREA PROVIDED ABV. 3'-0" = 721 SI
VENT AREA PROVIDED BELOW 3'-0" = 392 SI

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ROOF PLAN

ISSUED FOR: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: CV
CHECKED BY: JL
DATE: 12/11/2015

REVISION	DATE

SHEET NUMBER:
A103

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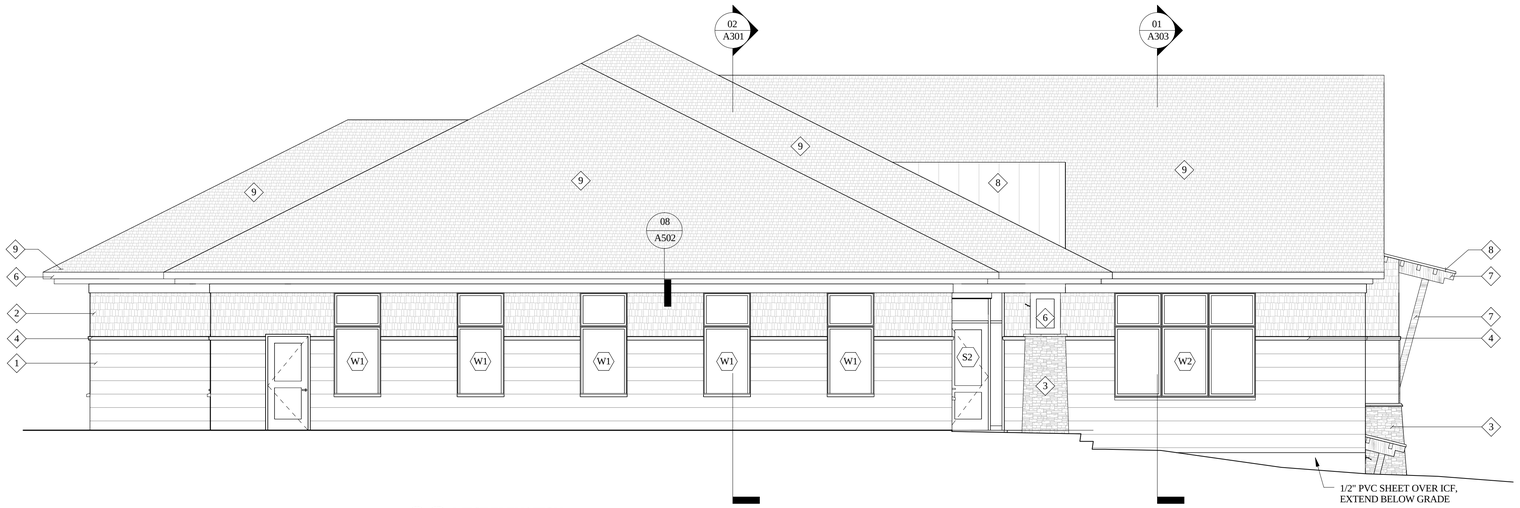
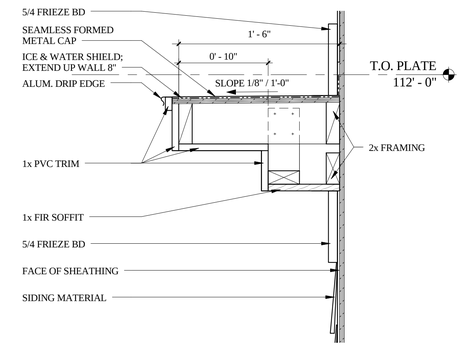
ELEVATION MATERIAL KEYNOTE LEGEND:

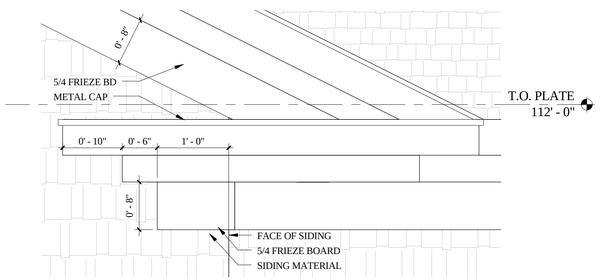
1 - HORIZONTAL SIDING - FLAT SEAMED METAL FORMED IN CONTINUOUS PIECES
2 - SHINGLE SIDING - CEDAR SHINGLES WITH 7" EXPOSURE AND CLEAR OIL SEALER
3 - STONE - THIN VENEER STONE BASED ON CHAMPLAIN STONE CORINTHIAN GRANITE, LEDGE STONE THIN VENEER
4 - HORIZONTAL TRIM BAND - FORMED METAL OVER WOOD
5 - HORIZONTAL SOFFIT - 1x6 T+G FIR, CLEAR FINISH
6 - EAVE TRIM - PAINTED PVC
7 - FIR TIMBERS/BRACKETS, CLEAR FINISH
8 - STANDING SEAM METAL ROOF
9 - ASPHALT SHINGLE ROOF
10 - HOSE BIBB, SEE MECH DRAWINGS
11 - 2" THICK STONE WINDOW SILLS



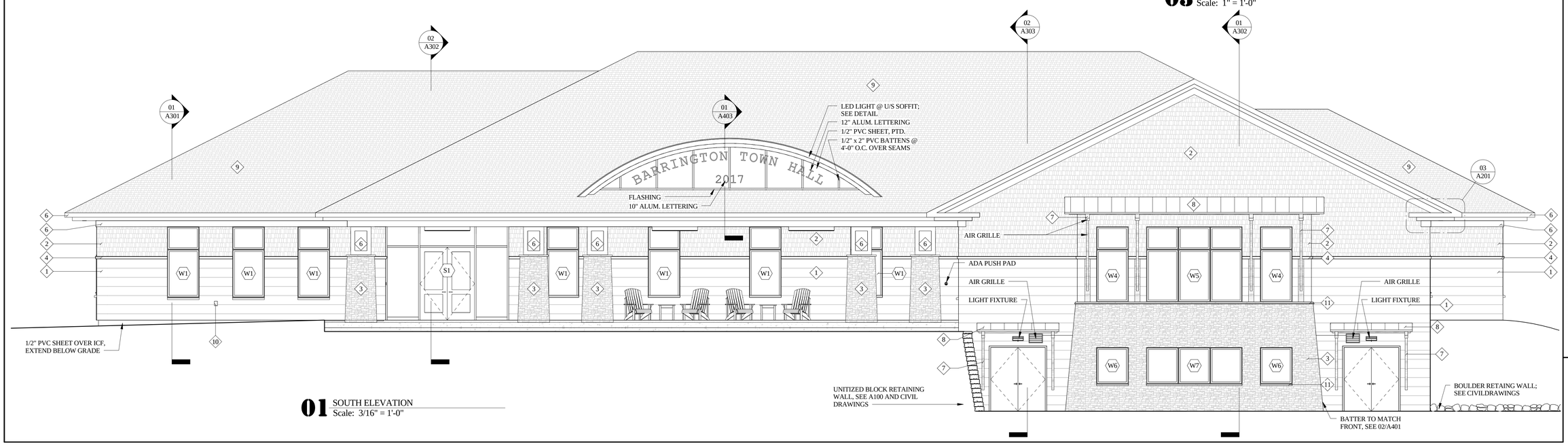
02 WEST ELEVATION
Scale: 3/16" = 1'-0"



04 SECTIONAL DETAIL - GABLE END SOFFIT RETURN
Scale: 1 1/2" = 1'-0"



03 ELEVATIONAL DETAIL - SOFFIT RETURN AT GABLE WALL
Scale: 1" = 1'-0"



01 SOUTH ELEVATION
Scale: 3/16" = 1'-0"

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NOTE: IT IS THE G.C.'S, CM's AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
EXTERIOR ELEVATIONS

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
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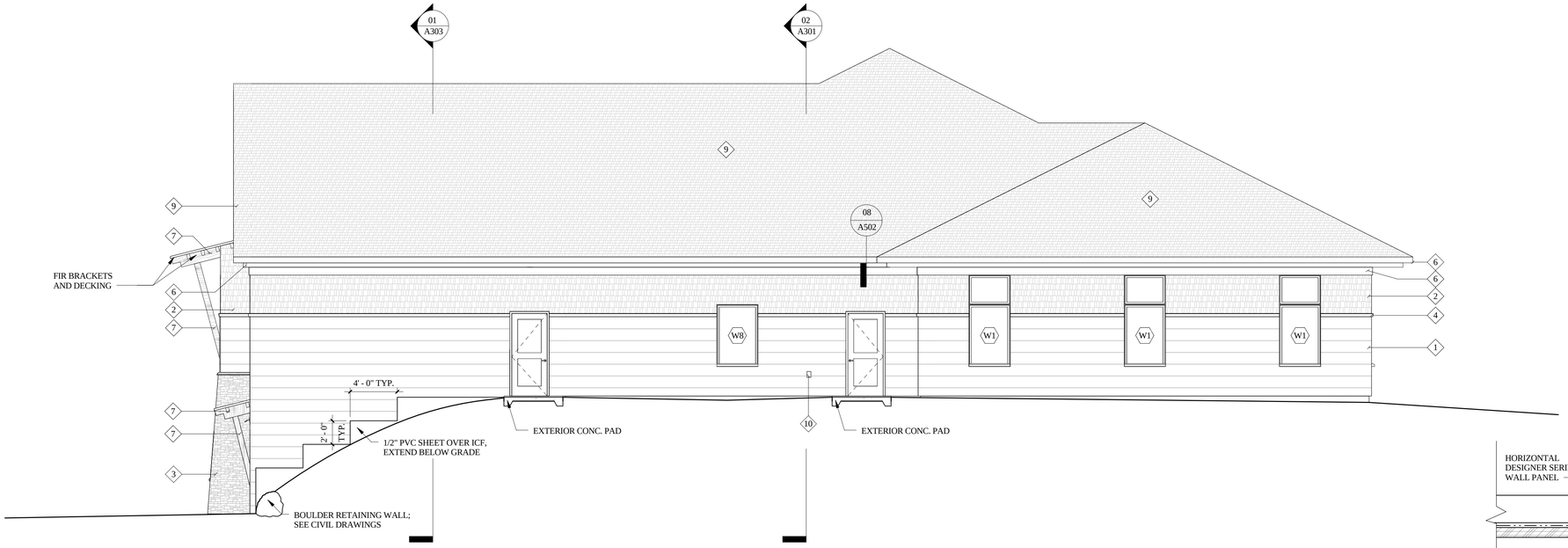
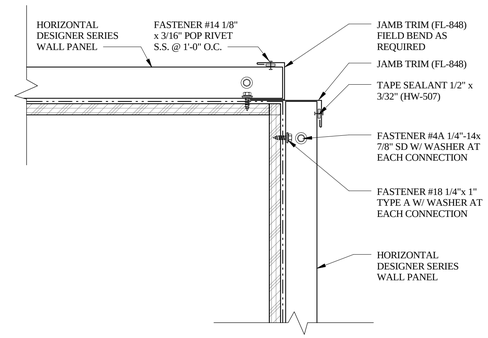
ELEVATION MATERIAL KEYNOTE LEGEND:

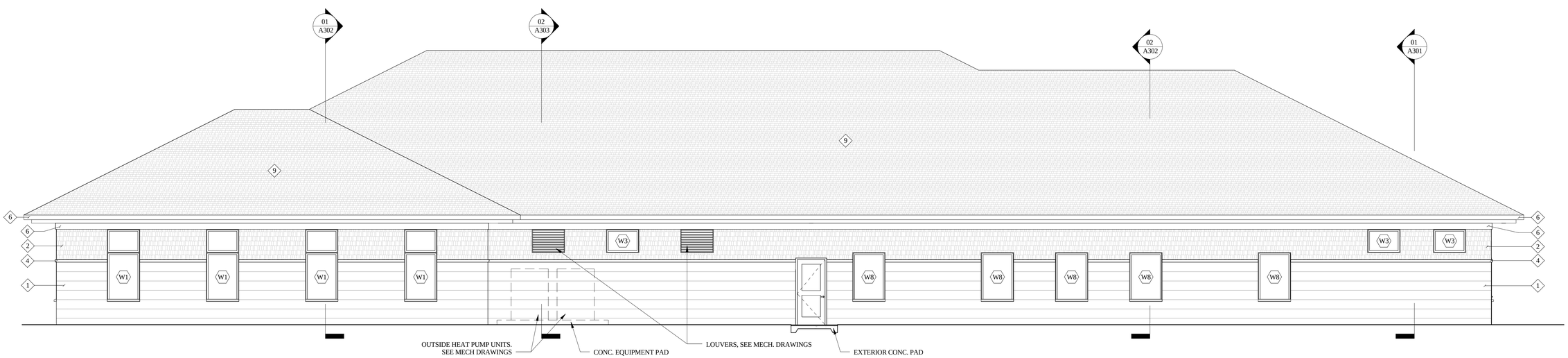
1 - HORIZONTAL SIDING - FLAT SEAMED METAL FORMED IN CONTINUOUS PIECES
2 - SHINGLE SIDING - CEDAR SHINGLES WITH 7" EXPOSURE AND CLEAR OIL SEALER
3 - STONE - THIN VENEER STONE BASED ON CHAMPLAIN STONE CORINTHIAN GRANITE, LEDGE STONE THIN VENEER
4 - HORIZONTAL TRIM BAND - FORMED METAL OVER WOOD
5 - HORIZONTAL SOFFIT - 1x6 T+G FIR, CLEAR FINISH
6 - EAVE TRIM - PAINTED PVC
7 - FIR TIMBERS/BRACKETS, CLEAR FINISH
8 - STANDING SEAM METAL ROOF
9 - ASPHALT SHINGLE ROOF
10 - HOSE BIBB, SEE MECH DRAWINGS
11 - 2" THICK STONE WINDOW SILLS



02 EAST ELEVATION
Scale: 3/16" = 1'-0"



03 METAL SIDING - TYP. OUTSIDE CORNER
Scale: 3" = 1'-0"



01 NORTH ELEVATION
Scale: 3/16" = 1'-0"

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
EXTERIOR ELEVATIONS

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

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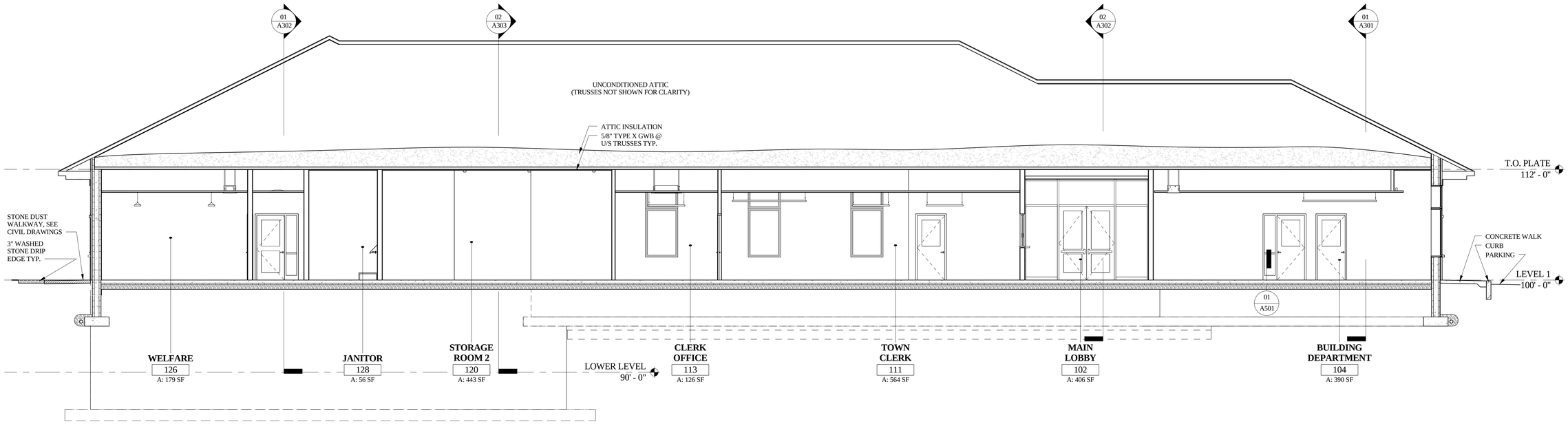
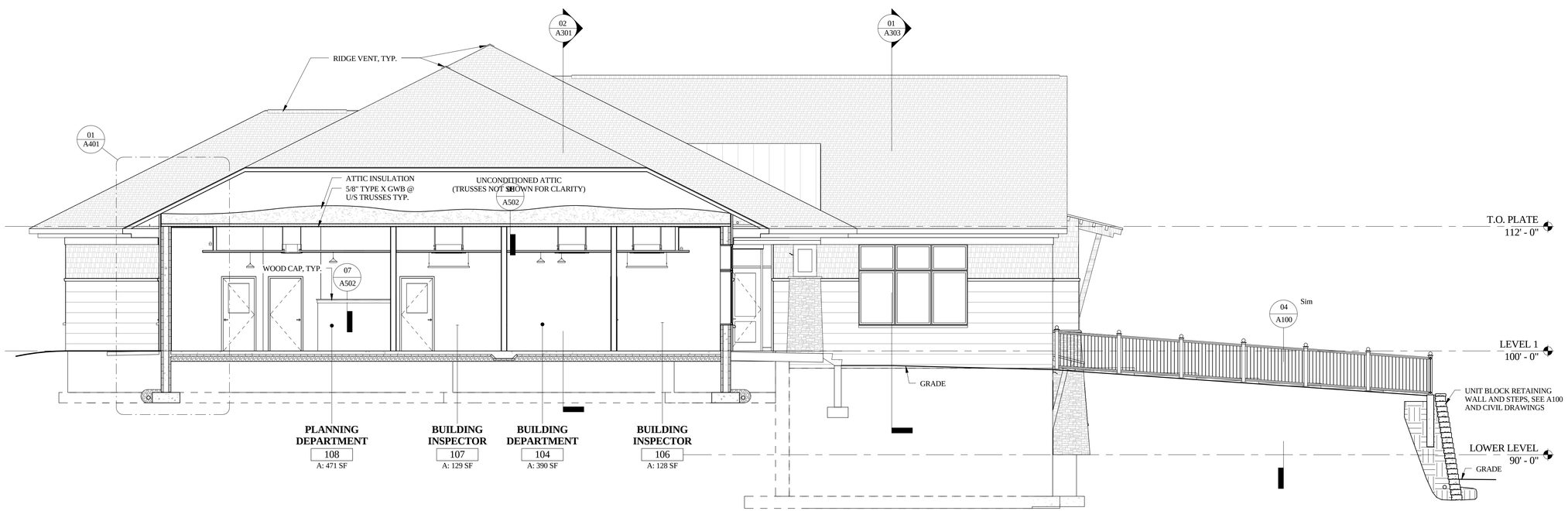


02 BUILDING SECTION B
Scale: 3/16" = 1'-0"



01 BUILDING SECTION A
Scale: 3/16" = 1'-0"

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BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
BUILDING SECTIONS

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A301

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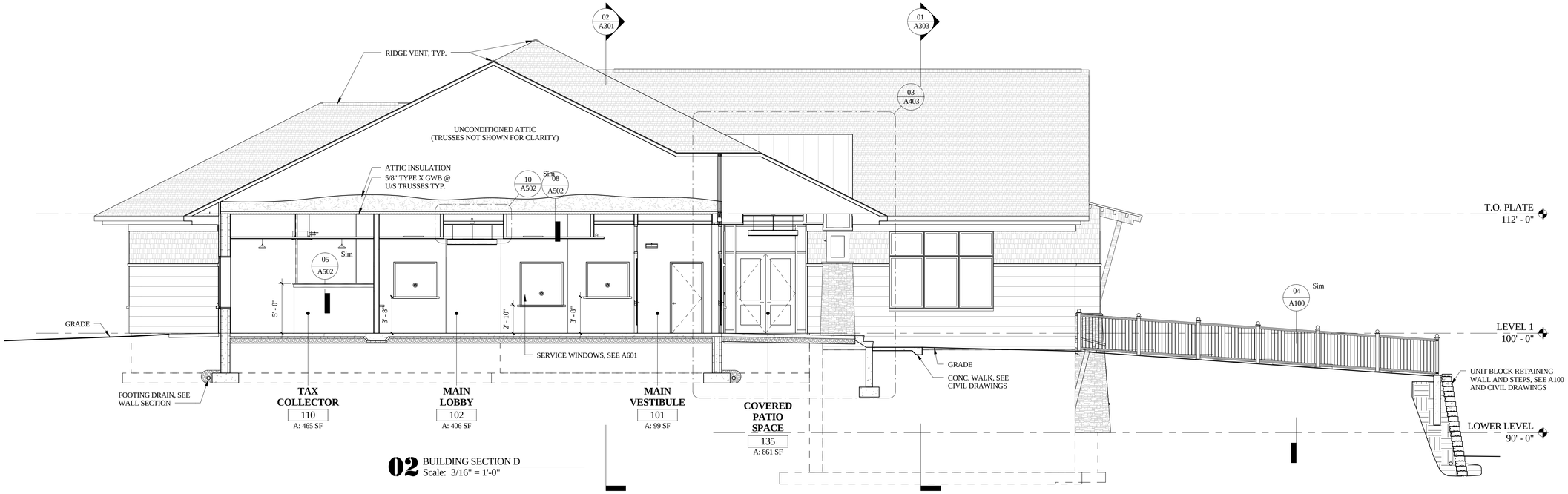
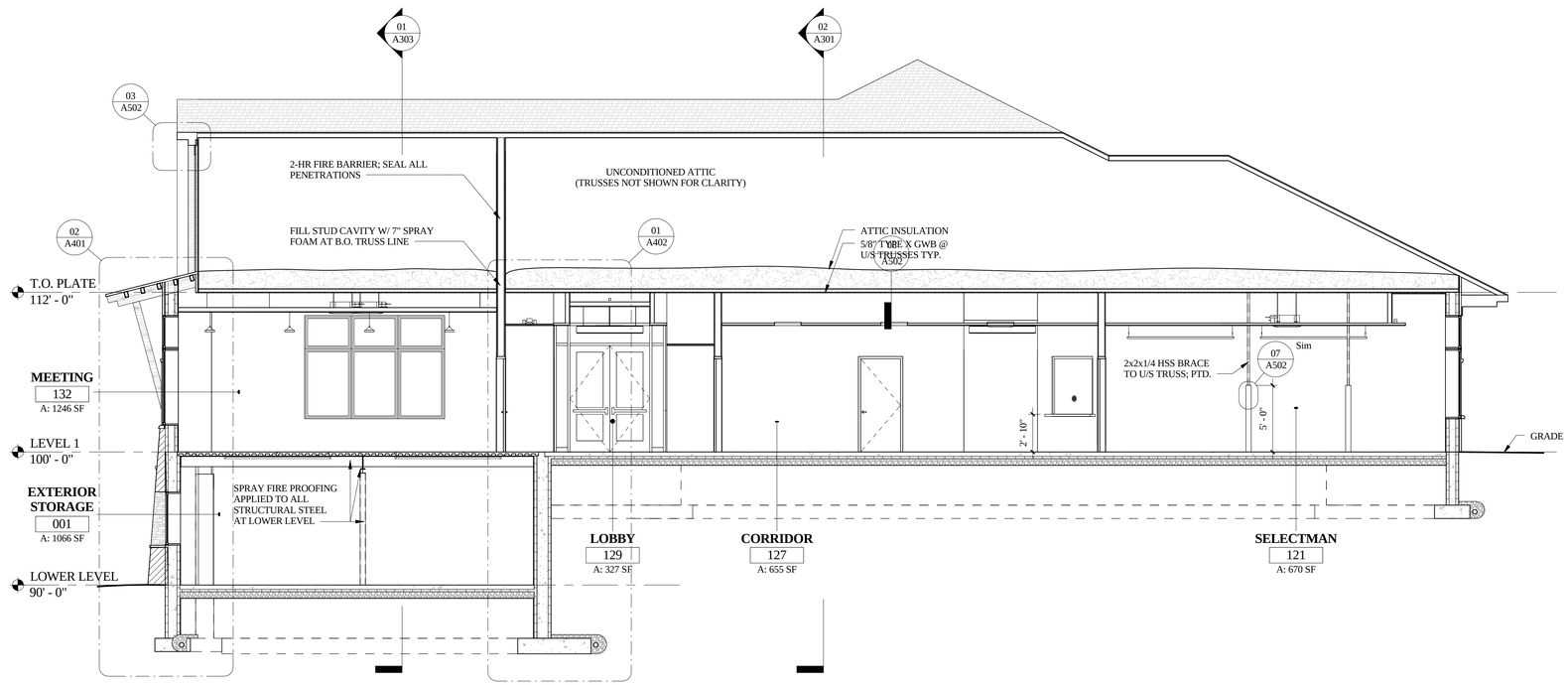


02 BUILDING SECTION D
Scale: 3/16" = 1'-0"



01 BUILDING SECTION C
Scale: 3/16" = 1'-0"

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DRAWING TITLE:
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ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

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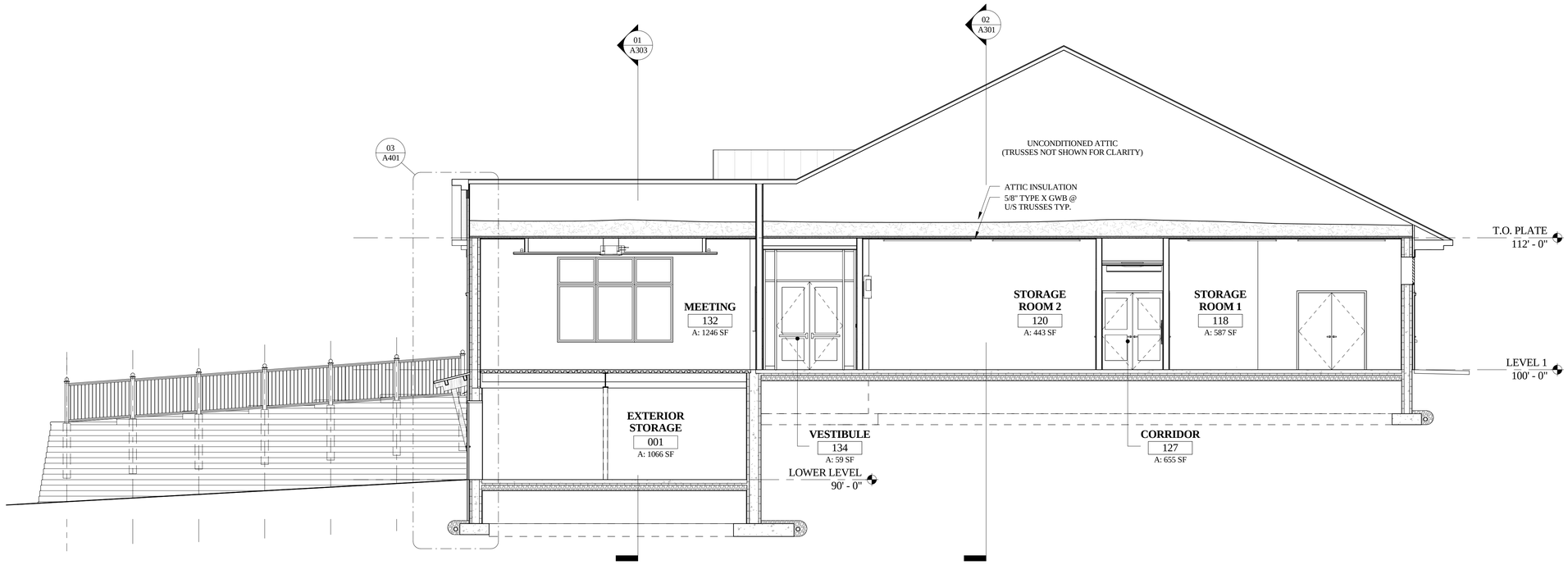

02 BUILDING SECTION F
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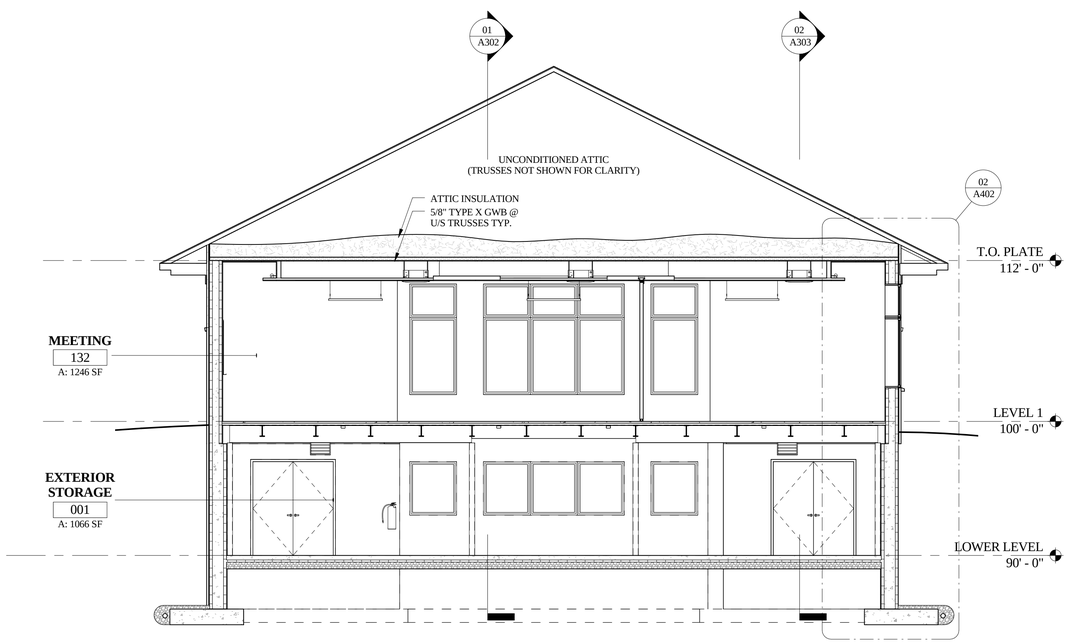

01 BUILDING SECTION E
Scale: 3/16" = 1'-0"

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
BUILDING SECTIONS

ISSUED FOR:	BID & CONSTRUCTION SET
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DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

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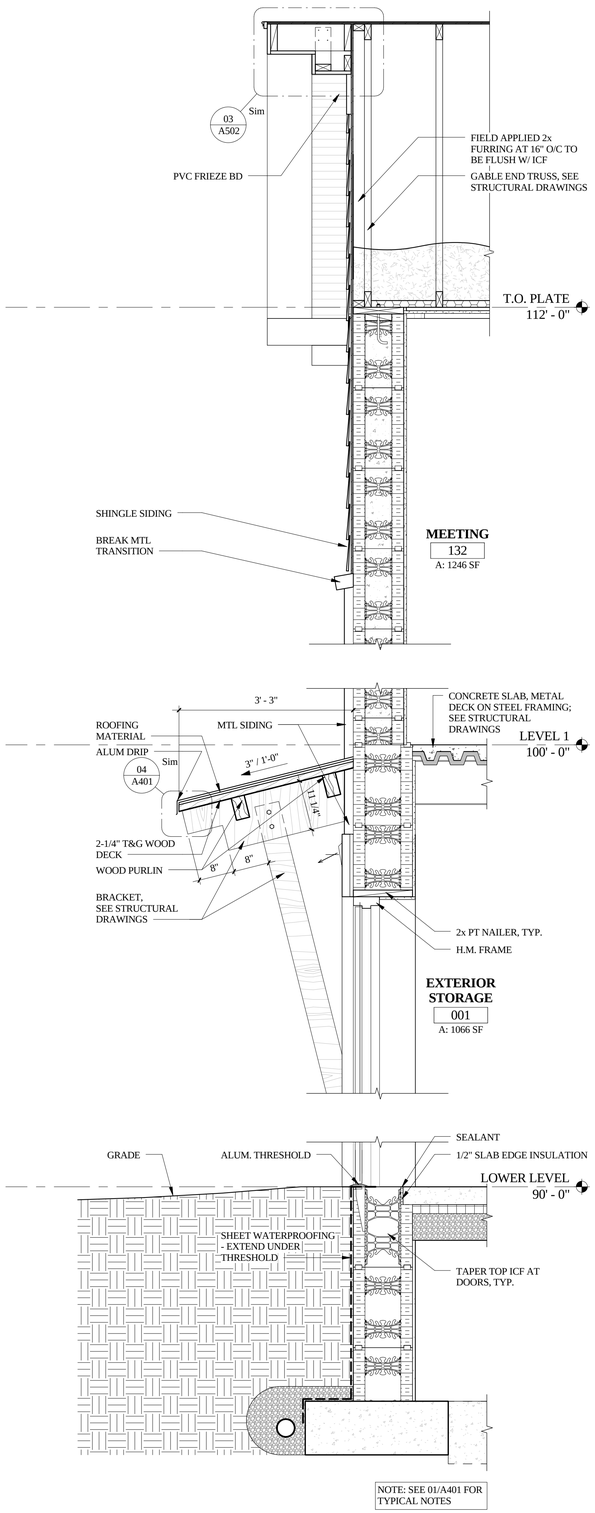
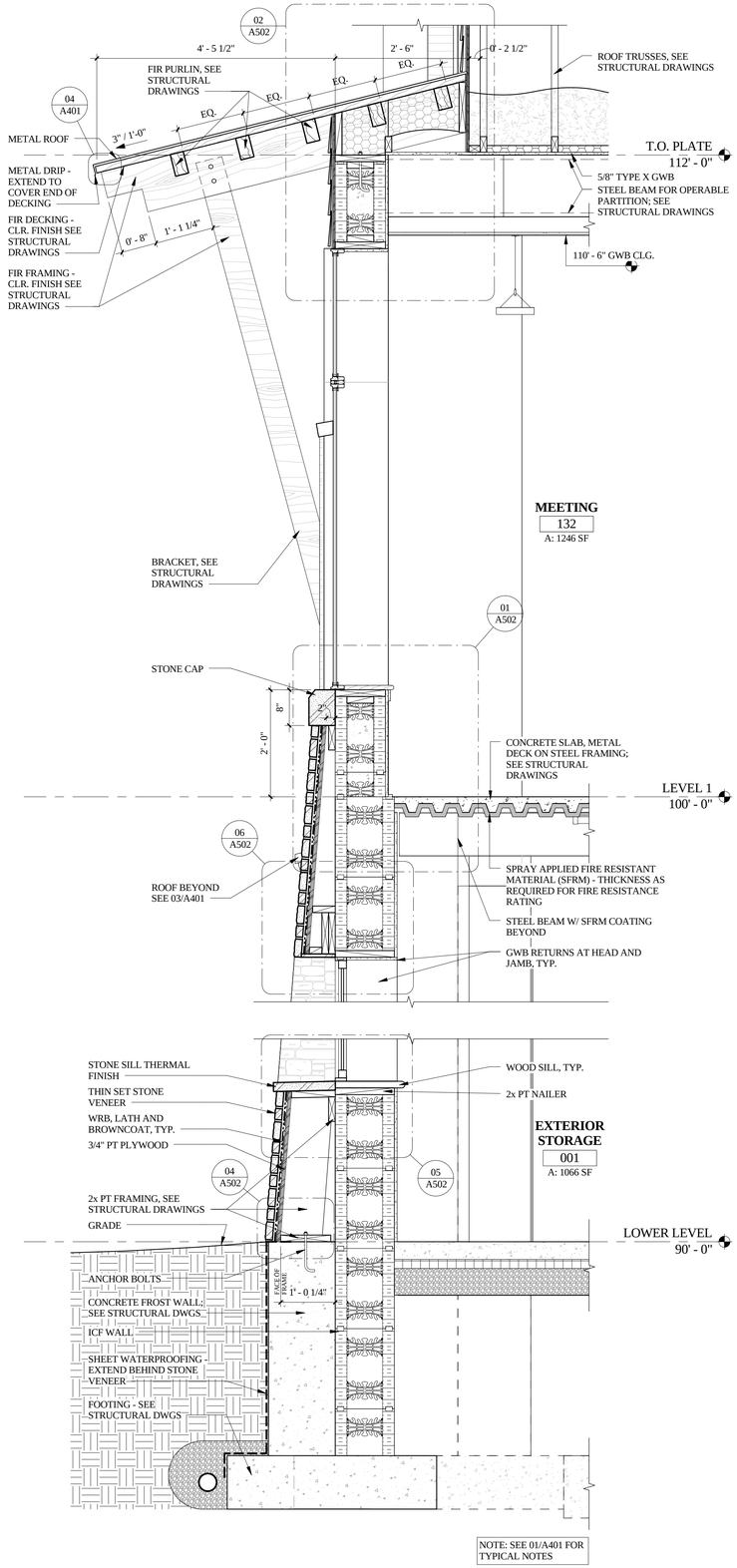
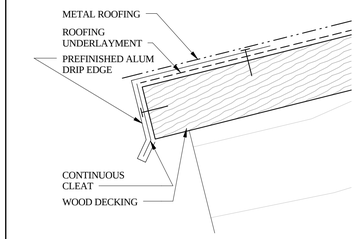


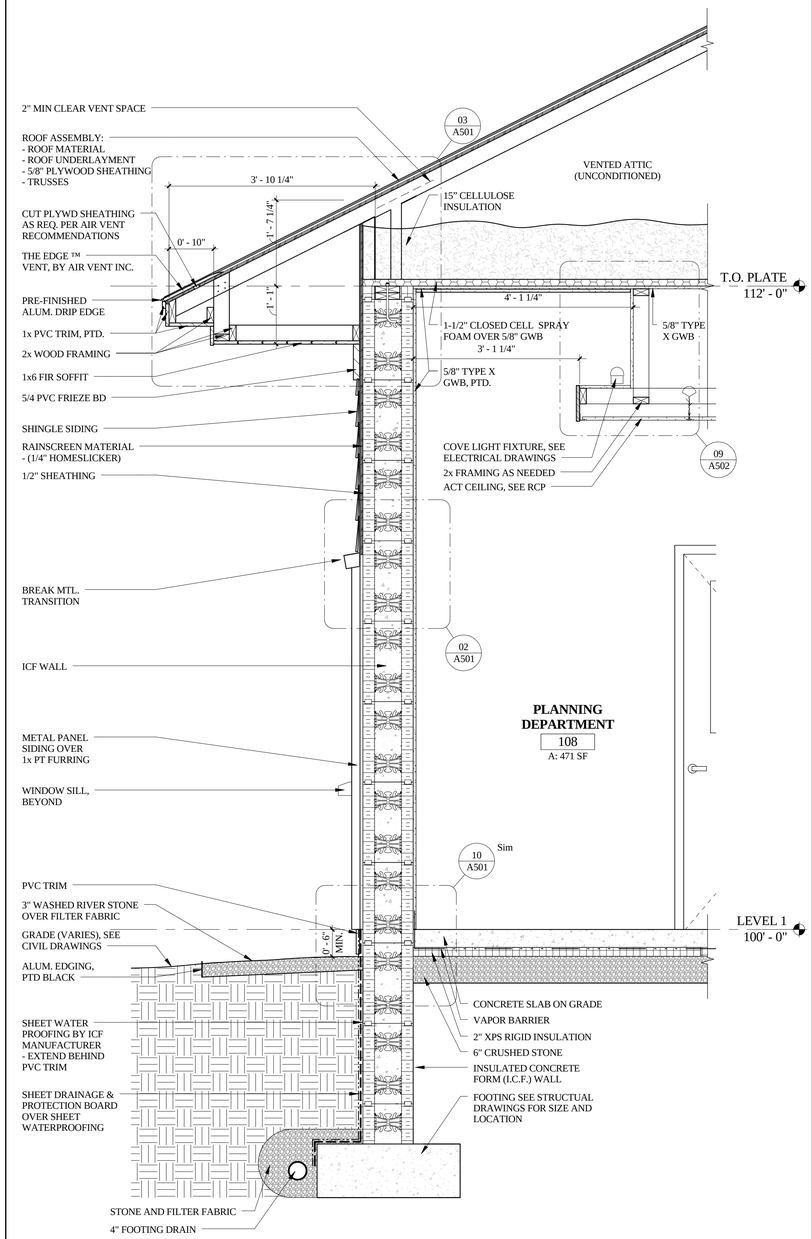
03 MEETING ROOM #132 - GABLE END B
Scale: 3/4" = 1'-0"



02 MEETING ROOM #132 - GABLE END A
Scale: 3/4" = 1'-0"



04 ROOF EDGE DETAIL
Scale: 6" = 1'-0"



01 TYPICAL EXTERIOR WALL SECTION - WITH TYP. NOTES
Scale: 3/4" = 1'-0"

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
WALL SECTIONS

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
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DATE:	12/11/2015

REVISION	DATE

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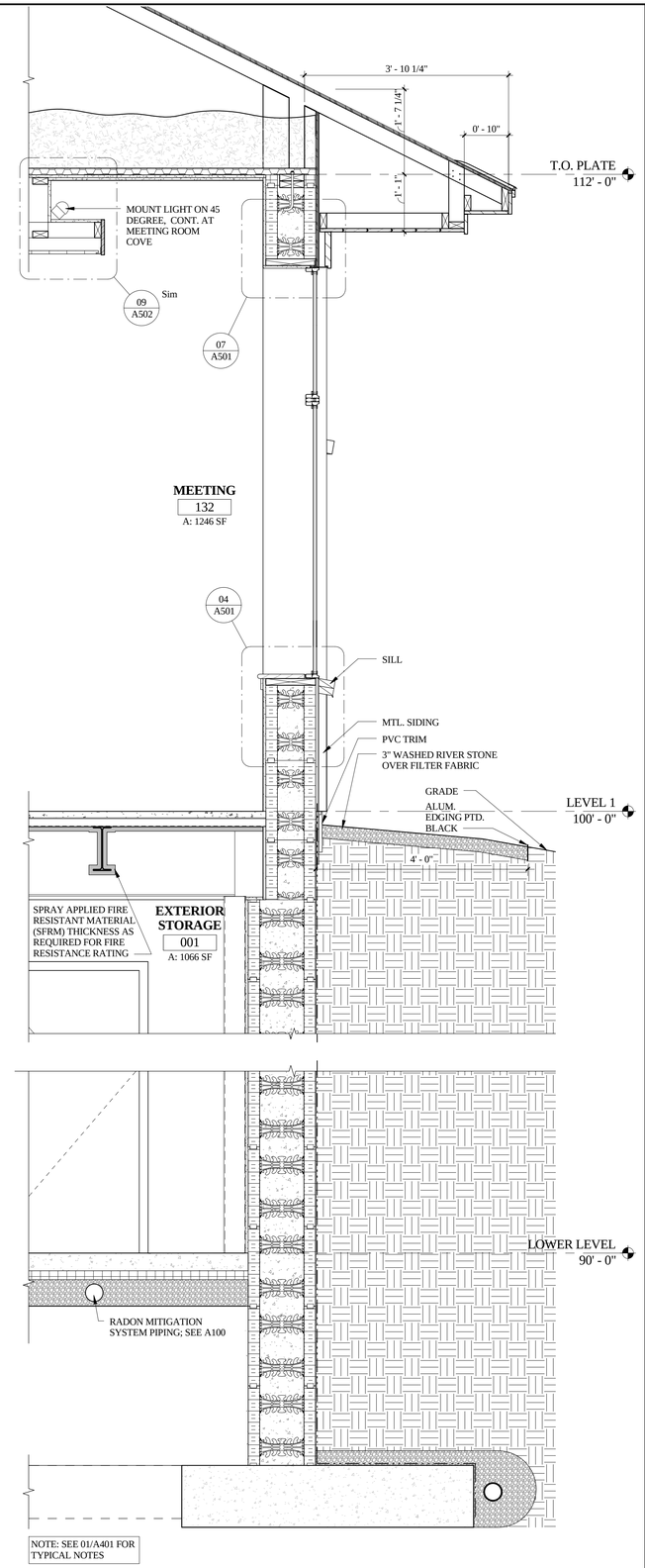
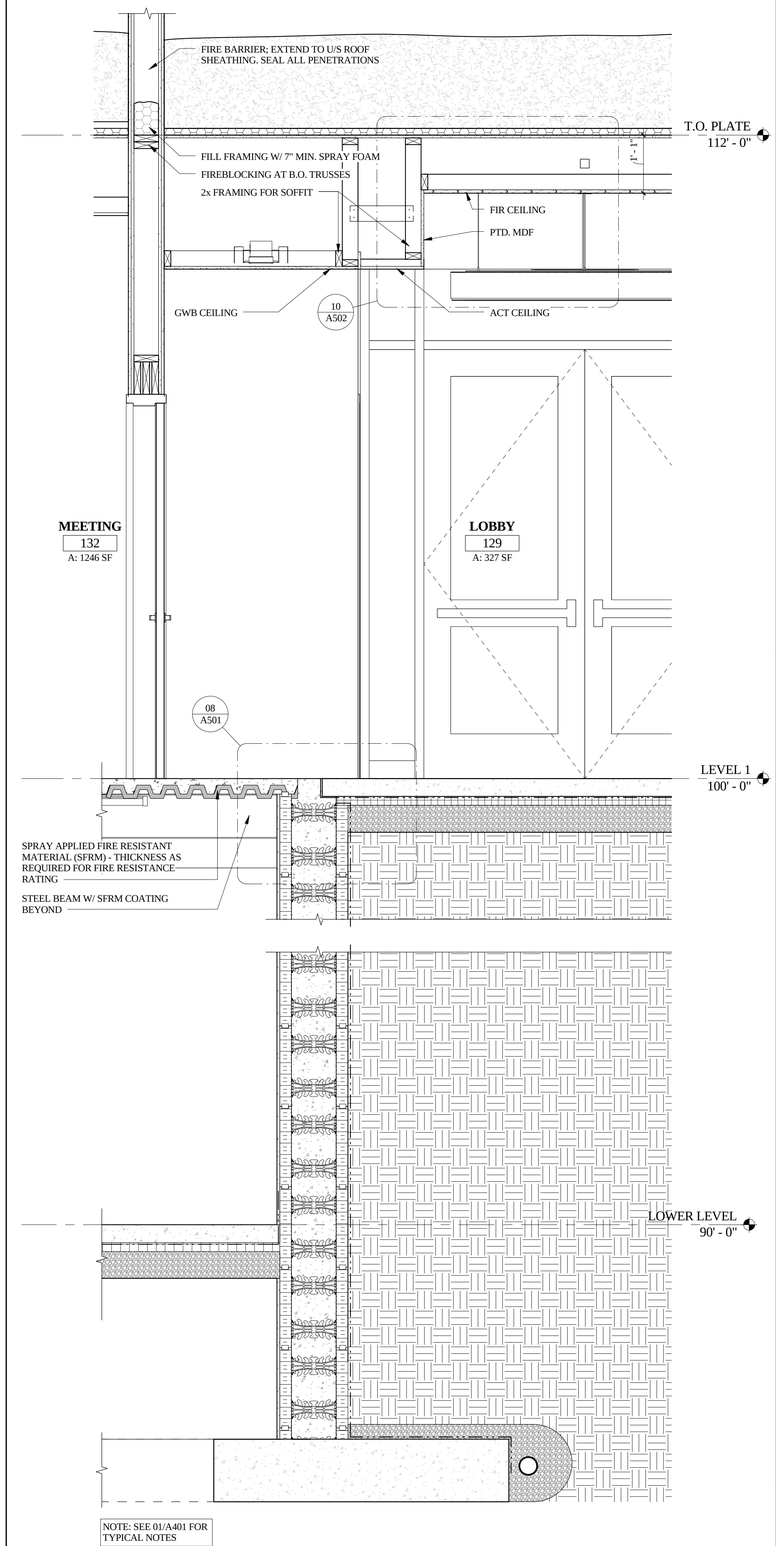


NOTE: SEE 01/A401 FOR TYPICAL NOTES

02 WEST WALL OF MEETING/STORAGE ROOM
Scale: 3/4" = 1'-0"



NOTE: SEE 01/A401 FOR TYPICAL NOTES

01 MEETING ROOM #132 - RETAINING WALL
Scale: 3/4" = 1'-0"

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DRAWING TITLE:
WALL SECTIONS

ISSUED FOR: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: CV
CHECKED BY: JL
DATE: 12/11/2015

REVISION	DATE

SHEET NUMBER:
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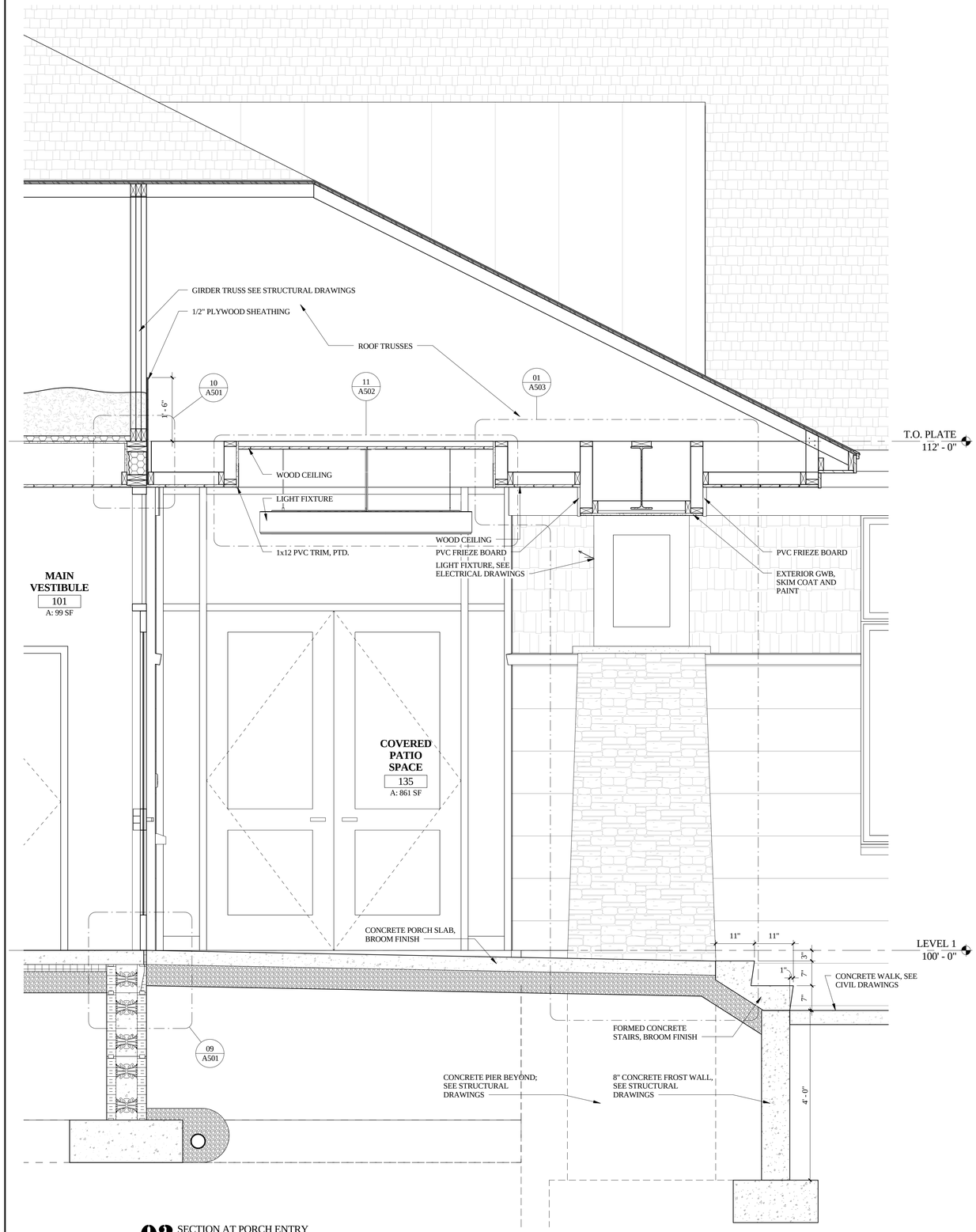
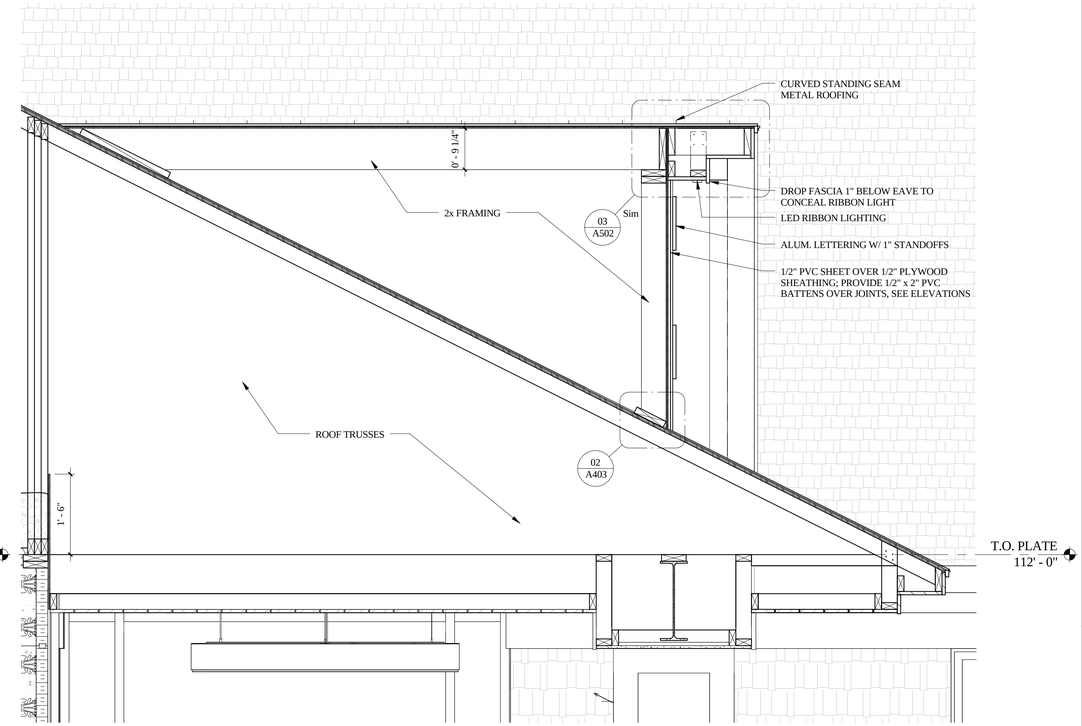
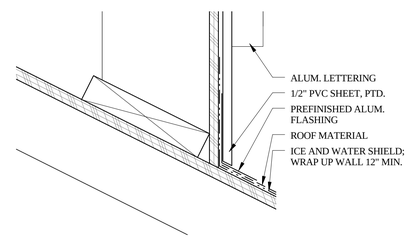


03 SECTION AT PORCH ENTRY
Scale: 3/4" = 1'-0"



01 SECTION AT EYEBROW DORMER
Scale: 3/4" = 1'-0"



02 FLASHING DETAIL AT EYEBROW DORMER
Scale: 3" = 1'-0"

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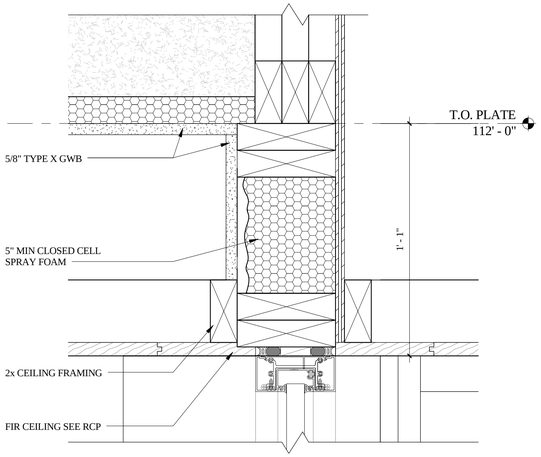
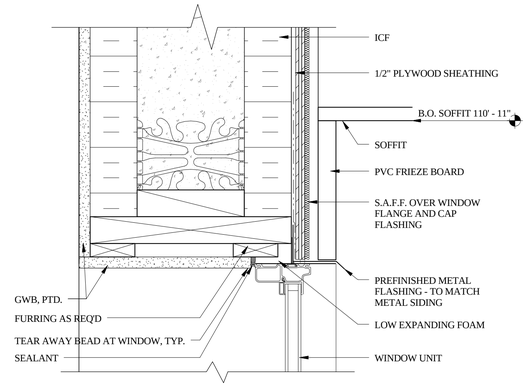
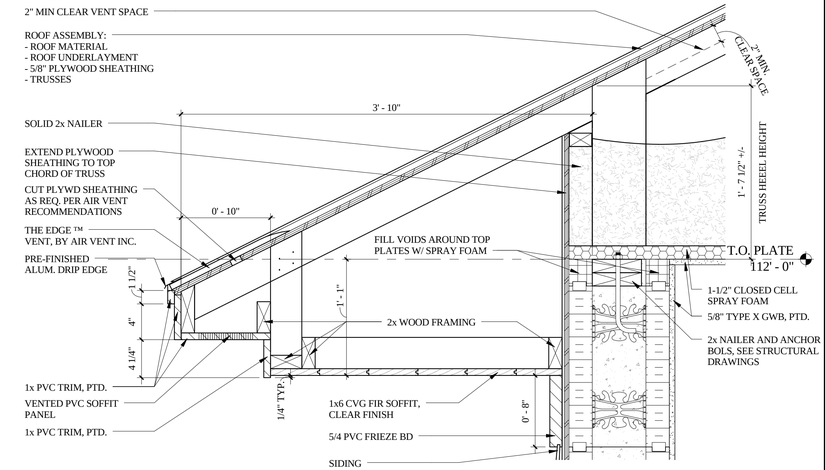


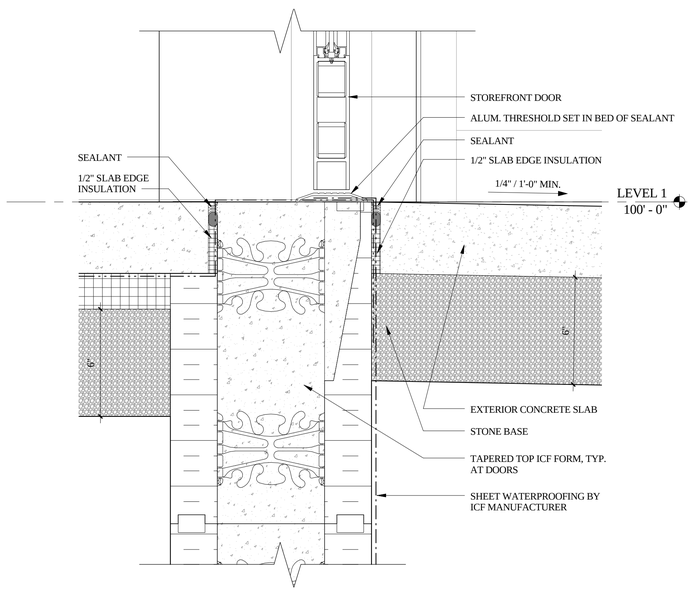
10 STOREFRONT HEAD AT MAIN ENTRANCE
Scale: 3" = 1'-0"



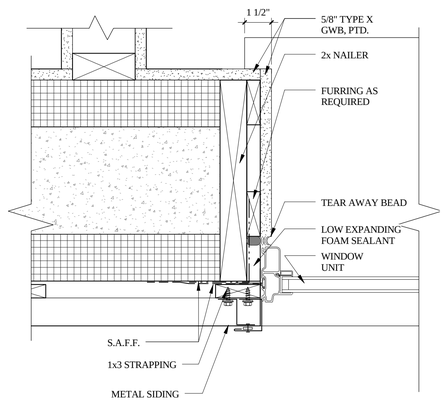
07 WINDOW HEAD DETAIL AT SHAKE SIDING
Scale: 3" = 1'-0"



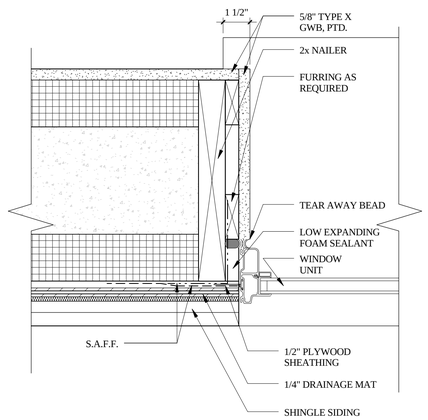
03 TYPICAL EAVE OVERHANG
Scale: 1 1/2" = 1'-0"



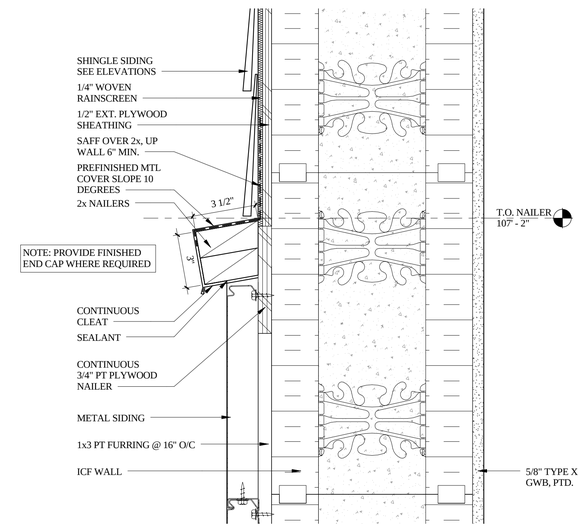
09 STOREFRONT SILL AT MAIN ENTRY
Scale: 3" = 1'-0"



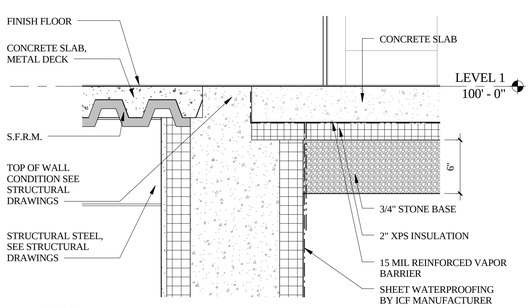
06 WINDOW JAMB DETAIL AT METAL SIDING
Scale: 3" = 1'-0"



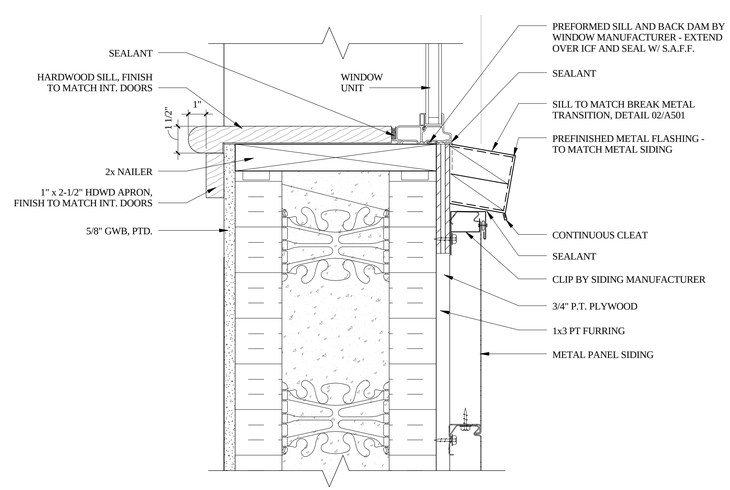
05 WINDOW JAMB DETAIL AT SHINGLE SIDING
Scale: 3" = 1'-0"



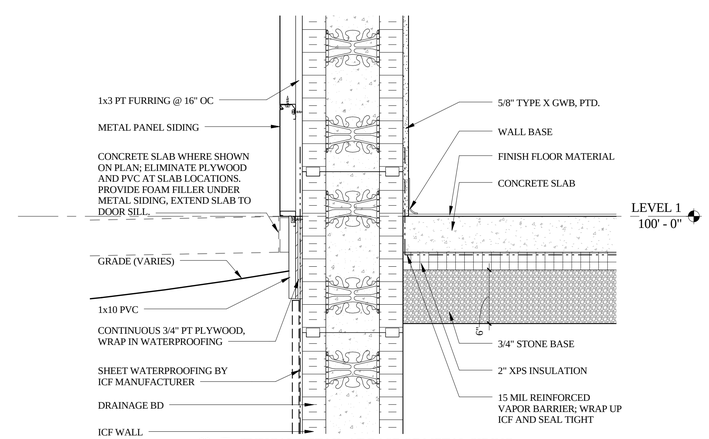
02 BREAK METAL TRANSITION DETAIL
Scale: 3" = 1'-0"



08 RETAINING WALL AT MEETING ROOM #132 & LOBBY #129
Scale: 1 1/2" = 1'-0"



04 WINDOW SILL DETAIL
Scale: 3" = 1'-0"



01 TYPICAL DETAIL AT BASE OF METAL SIDING
Scale: 1 1/2" = 1'-0"

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
DETAILS

ISSUED FOR: BID & CONSTRUCTION SET

JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A501

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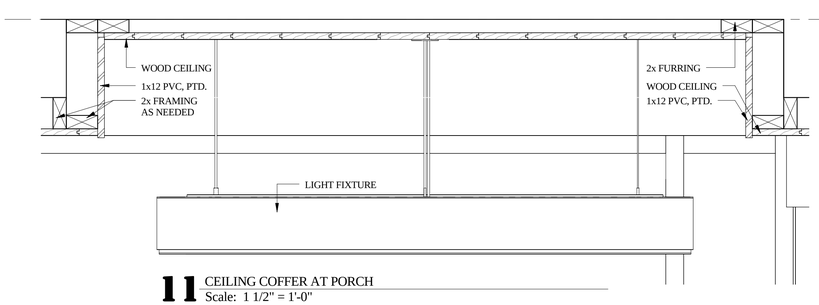
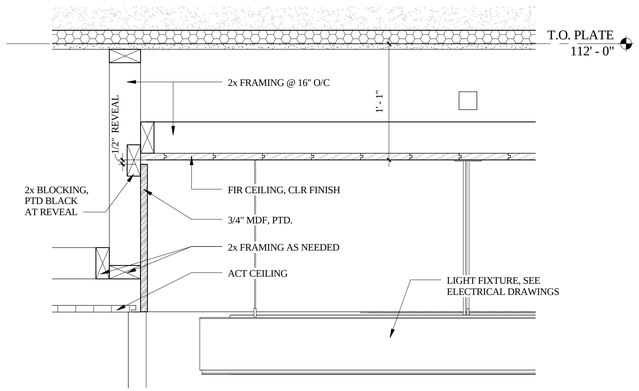


11 CEILING COFFER AT PORCH
Scale: 1 1/2" = 1'-0"



10 CEILING COFFER AT LOBBIES
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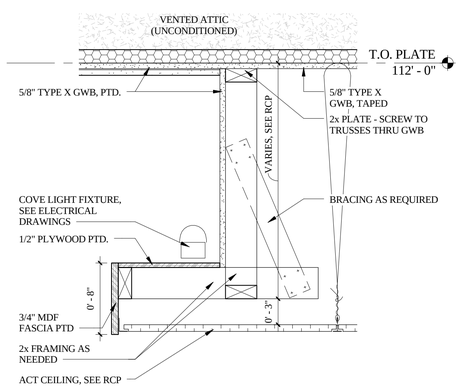
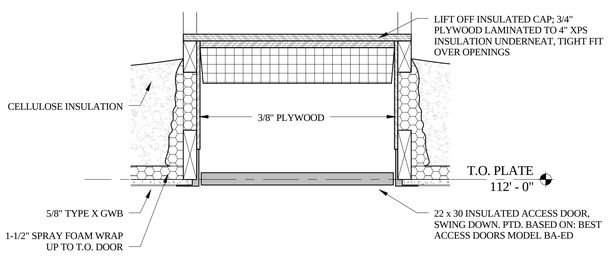
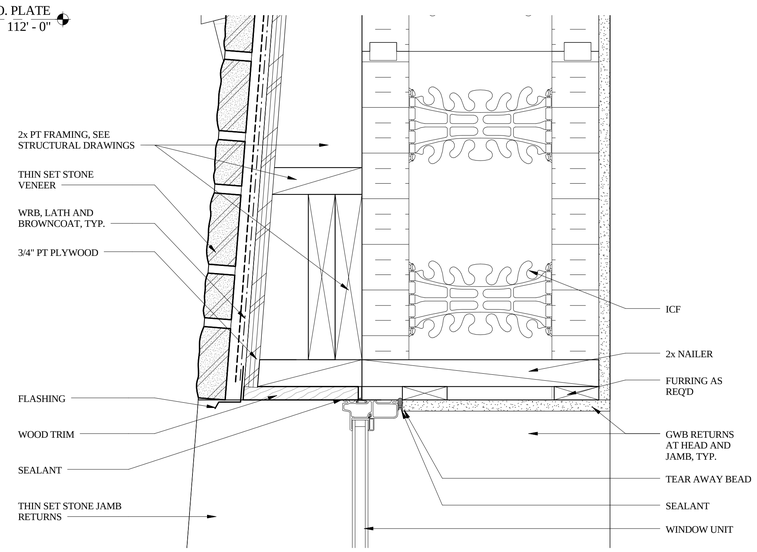


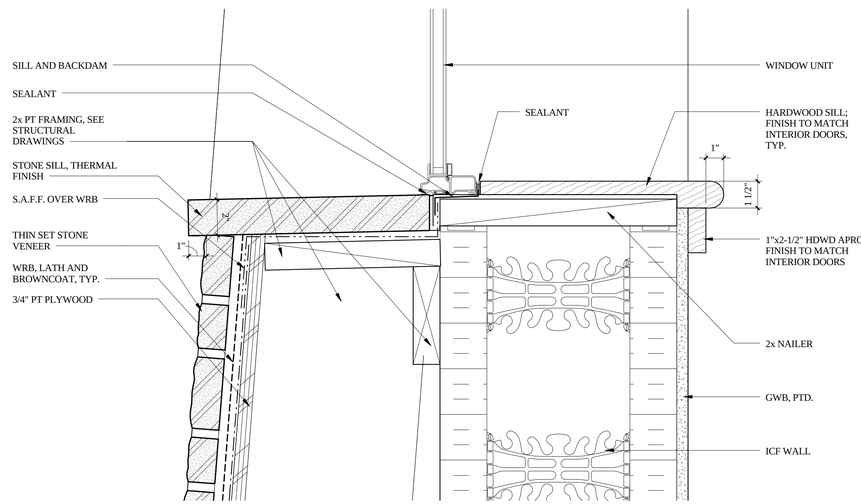
09 LIGHT COVE DETAIL
Scale: 1 1/2" = 1'-0"



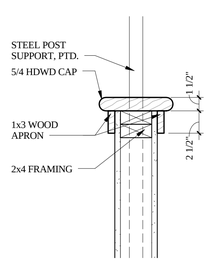
08 ATTIC ACCESS HATCH DETAIL
Scale: 1 1/2" = 1'-0"



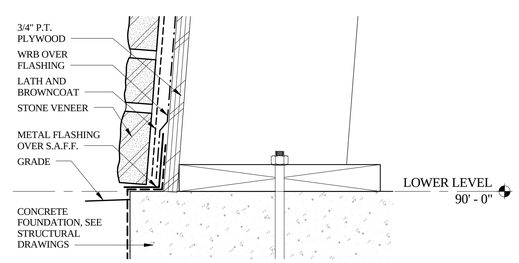
06 WINDOW HEAD AT STONE WALL
Scale: 3" = 1'-0"



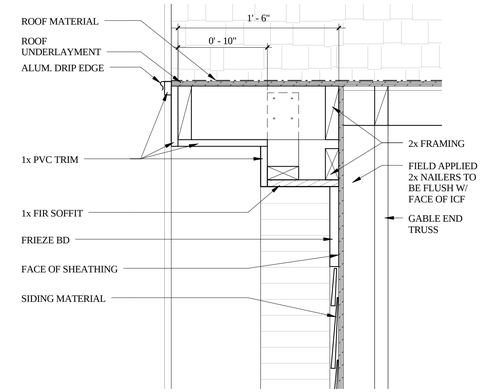
05 WINDOW SILL AT STONE WALL
Scale: 3" = 1'-0"



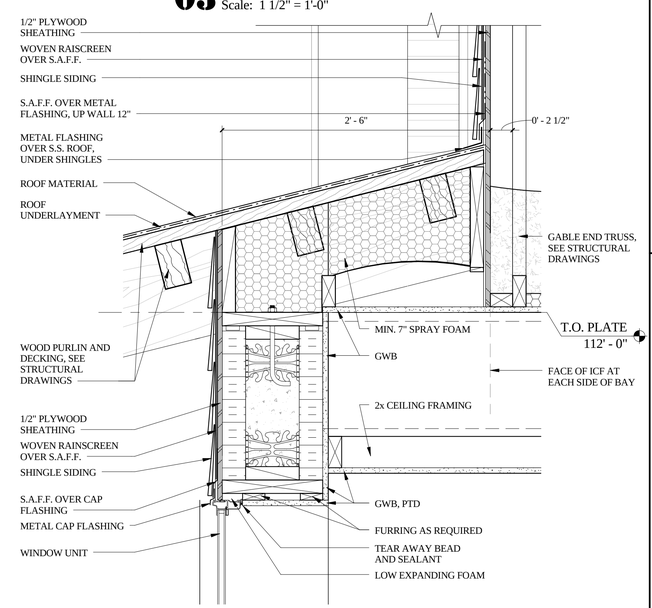
07 WOOD WALL CAP DETAIL
Scale: 1 1/2" = 1'-0"



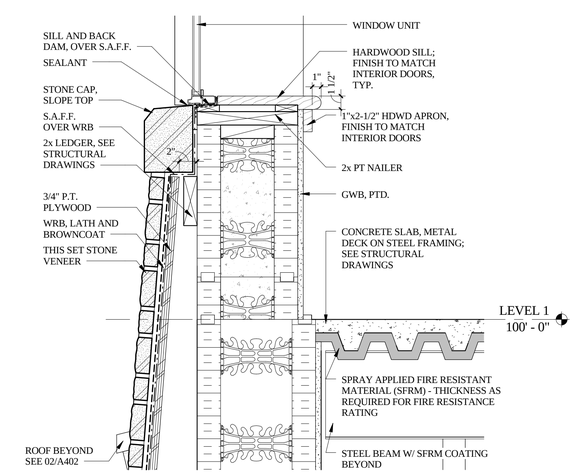
04 STONE VENEER BASE DETAIL
Scale: 3" = 1'-0"



03 GABLE OVERHANG ABV. MEETING ROOM #132
Scale: 1 1/2" = 1'-0"



02 WINDOW HEAD AT GABLE END OF MEETING ROOM #132
Scale: 1 1/2" = 1'-0"



01 WINDOW SILL AT GABLE END OF MEETING ROOM #132
Scale: 1 1/2" = 1'-0"

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REVISION	DATE

SHEET NUMBER:
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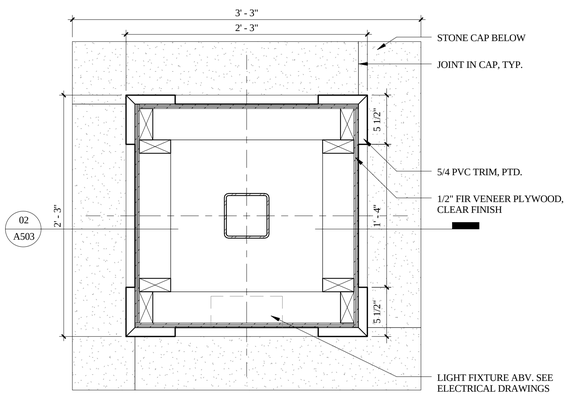
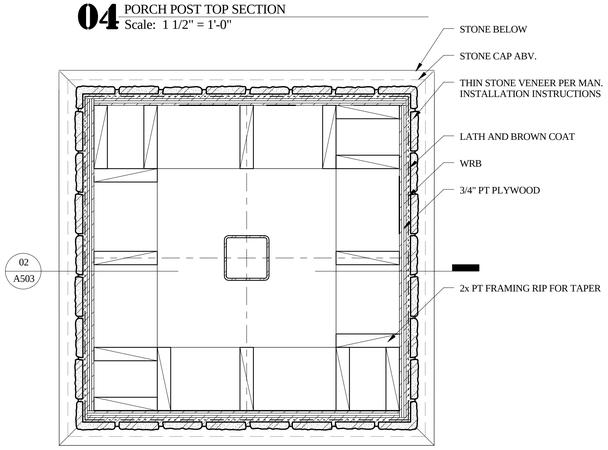
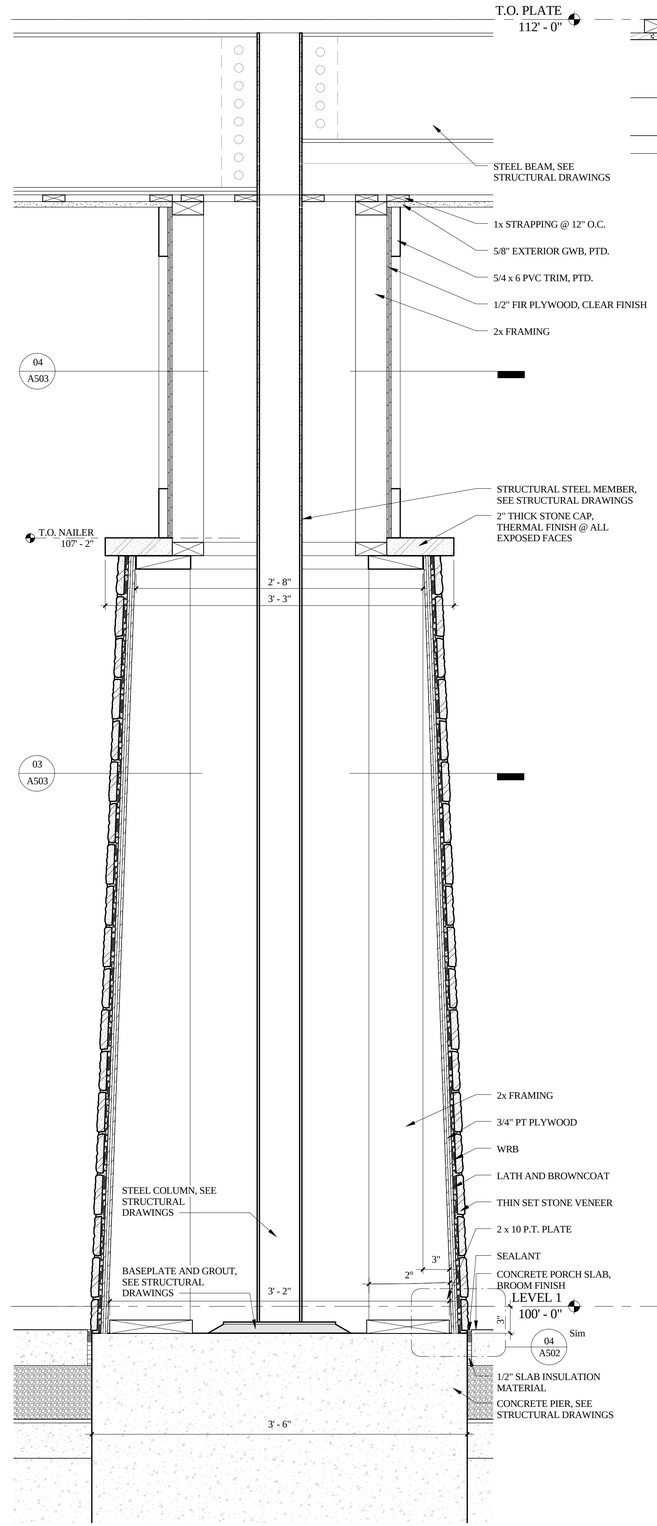


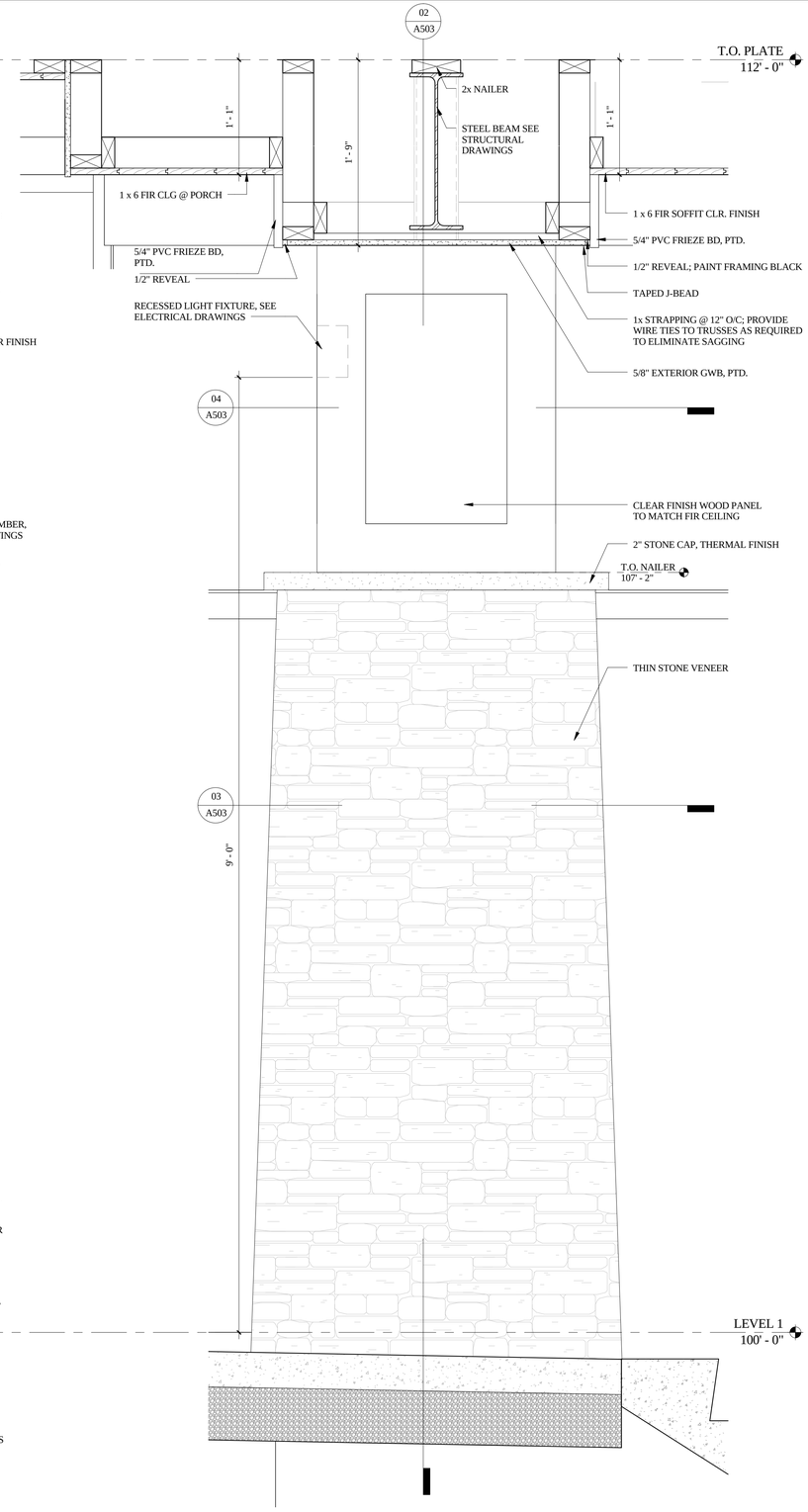
04 PORCH POST TOP SECTION
Scale: 1 1/2" = 1'-0"



03 PORCH POST BASE SECTION
Scale: 1 1/2" = 1'-0"



02 PORCH POST SECTION
Scale: 1 1/2" = 1'-0"



01 PORCH POST ELEVATION
Scale: 1 1/2" = 1'-0"

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DRAWN BY:	CV
CHECKED BY:	JL
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A503

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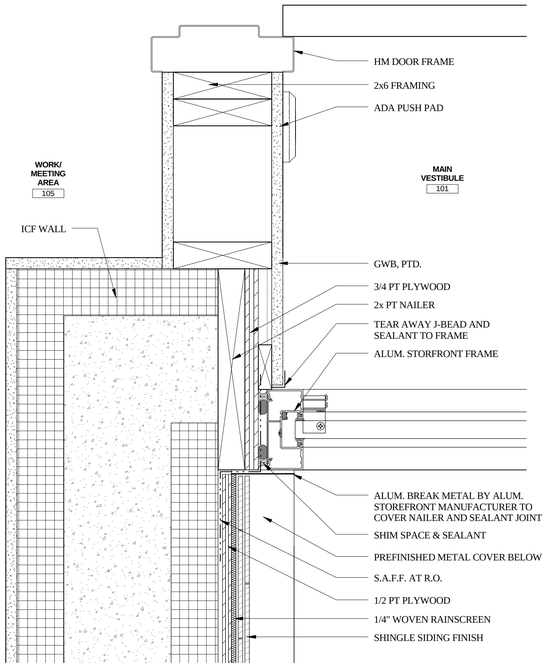
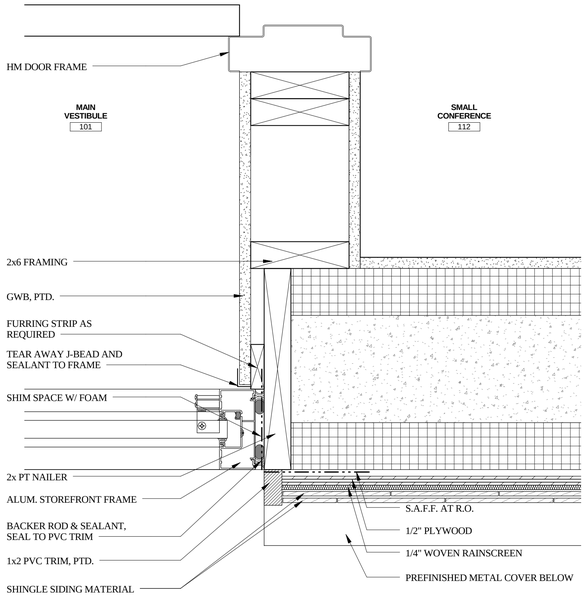
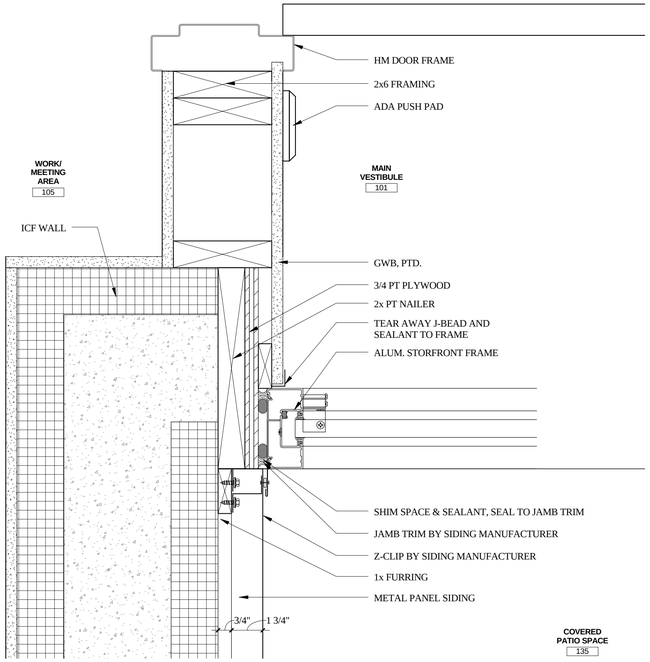


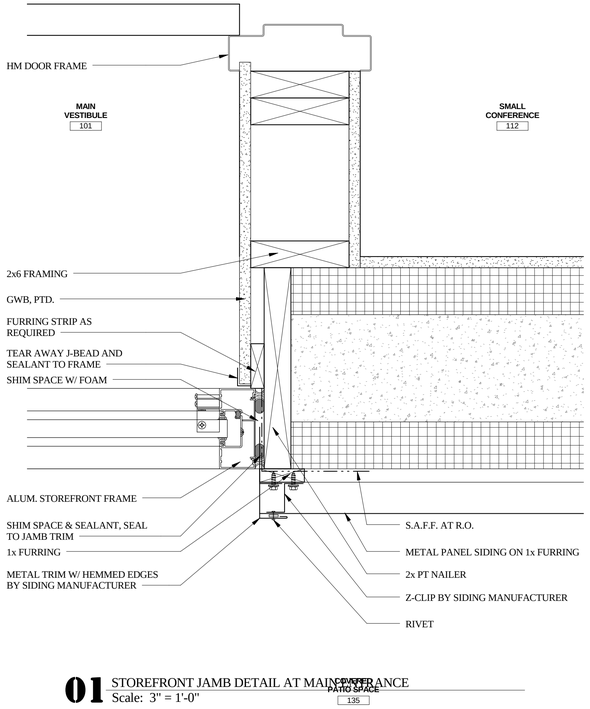
04 STOREFRONT JAMB DETAIL AT INSIDE CORNER ABV.
Scale: 3" = 1'-0"



03 STOREFRONT JAMB DETAIL AT MAIN ENTRANCE ABV.
Scale: 3" = 1'-0"



02 STOREFRONT JAMB DETAIL AT INSIDE CORNER
Scale: 3" = 1'-0"



01 STOREFRONT JAMB DETAIL AT MAIN ENTRANCE
Scale: 3" = 1'-0"

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DATE:	12/11/2015

REVISION	DATE

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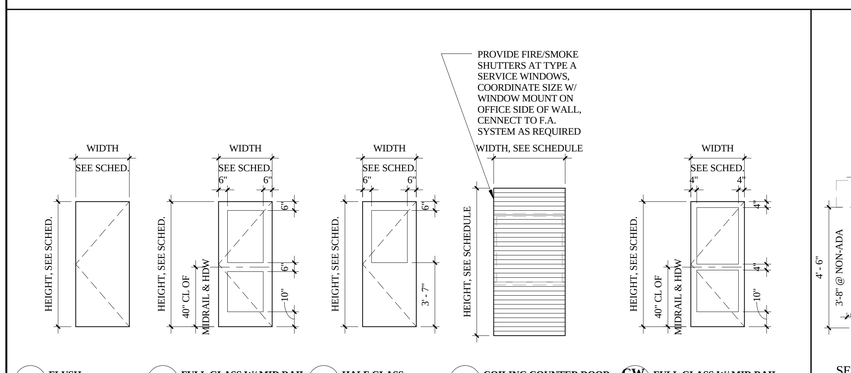
NEW DOOR AND FRAME SCHEDULE

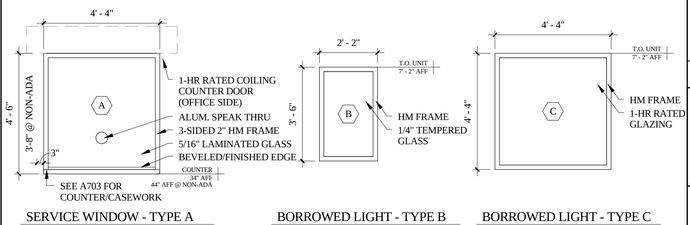
OPENING NUMBER	ROOM NAME	ROOM NUMBER	DOORS TYPE	DOORS MATERIAL	DOORS FINISH	LEAVES	WIDTH	HEIGHT	THICKNESS	FRAMES TYPE	FRAMES MATERIAL	FRAMES FINISH	UNDERCUT	FIRE RATING	SIGNAGE	COMMENTS	FUNCTION	LATCH SET	LOCK SET	EXIT DEVICE	PUSH-PULL	TOP MTD. BALL CATCH	CLOSER	8" H.KICK PLATE	30" H. KICK-PLATE	FLUSH BOLTS	THRESHOLD	DOOR SWEEP	DROP BOTTOM	SOUND GASKETS	WEATHER STRIPPING	POWER OPERATOR	ADA PUSH PADDLE	ELECTRIC STRIKE	ELECTRIC HARDWARE	HARDWARE NOTES
LOWER LEVEL																																				
001.1	EXTERIOR STORAGE	001	F	INSULATED METAL	GALVANIZED PTD.	2	6' - 0"	7' - 0"	0' - 1 3/4"	F2	INSULATED METAL	GALVANIZED PTD	-	-	-		F86 STOREROOM		●							●	●			●							-
001.2	EXTERIOR STORAGE	001	F	INSULATED METAL	GALVANIZED PTD.	2	6' - 0"	7' - 0"	0' - 1 3/4"	F2	INSULATED METAL	GALVANIZED PTD	-	-	-		F86 STOREROOM		●							●	●			●							-
LEVEL 1																																				
101.1	MAIN VESTIBULE	101	CW-FG2	ALUM.	CLR. ANODIZED	2	6' - 0"	8' - 0"	0' - 1 3/4"	S1	ALUM.	CLR. ANODIZED	-	-	-		F83 EXIT		●	●			●				●			●	●	●		●		CONCEALED ROD EXIT DEVICE, POWER OPERATOR 1 LEAF ONLY
101.2	MAIN VESTIBULE	101	CW-FG2	ALUM.	CLR. ANODIZED	2	6' - 0"	8' - 0"	0' - 1 3/4"	S1	ALUM.	CLR. ANODIZED	-	-	"EXIT" TYPE B		F75 PASSAGE	●		●			●					●		●	●	●				CONCEALED ROD EXIT DEVICE, POWER OPERATOR 1 LEAF ONLY
102.1	PLANNING COUNTER	103	FG2	WOOD	CLR	2	6' - 0"	7' - 0"	0' - 1 3/4"	F2	HOLLOW METAL	PTD.	-	20 MIN	-		F83 EXIT		●	●			●					●								SURFACE ROD EXIT DEVICE
103.1	PLANNING COUNTER	103	F	WOOD	CLR	1	3' - 6"	2' - 7 1/2"	0' - 1 3/4"	-	HOLLOW METAL	PTD.	-	-	-	PARTIAL HEIGHT DOOR, H.M. FRAME SEE A701	F75 PASSAGE	●																		-
105.1	WORK/ MEETING AREA	105	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F3	HOLLOW METAL	PTD.	-	20 MIN	"MEETING" TYPE B		F86 STOREROOM						●						●	●						-
105.2	WORK/ MEETING AREA	105	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F75 PASSAGE	●					●						●	●						-
106.1	BUILDING INSPECTOR	106	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	-	-		F75 PASSAGE	●										●								-
107.1	BUILDING INSPECTOR	107	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	-	-		F75 PASSAGE	●										●								-
108.1	PLANNING DEPARTMENT	108	FG2	ALUM.	CLR. ANODIZED	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	ALUM.	CLR. ANODIZED	-	-	"EXIT" TYPE B		F83 EXIT			●			●				●				●					NO HARDWARE ON EXTERIOR
109.1	LAND USE ADMINISTRATOR	109	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	-	-		F75 PASSAGE	●										●								-
110.1	TAX COLLECTOR	110	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F3	HOLLOW METAL	PTD.	-	20 MIN	"TAX COLLECTOR" TYPE A		F81 OFFICE		●				●					●								-
110.2	TAX COLLECTOR	110	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F75 PASSAGE	●																		-
111.1	TOWN CLERK	111	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F3	HOLLOW METAL	PTD.	-	20 MIN	"TOWN CLERK" TYPE A		F81 OFFICE		●				●					●								-
112.1	SMALL CONFERENCE	112	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	"MEETING" TYPE A		F86 STOREROOM		●				●						●	●						-
112.2	SMALL CONFERENCE	112	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F75 PASSAGE	●											●	●						-
113.1	CLERK OFFICE	113	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	-	-		F75 PASSAGE	●										●								-
114.1	CLERK STORAGE	114	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	120 MIN	-		F86 STOREROOM		●																	
115.1	WOMEN'S	115	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	20 MIN	"WOMEN" TYPE D		F76 PRIVACY		●				●	●					●	●						-
116.1	MEN'S	116	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	20 MIN	"MEN" TYPE D		F76 PRIVACY		●				●	●					●	●						-
117.1	BREAK ROOM	117	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	20 MIN	"STAFF" TYPE A		F75 PASSAGE	●					●	●												-
117.2	BREAK ROOM	117	FG2	ALUM.	CLR. ANODIZED	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	ALUM.	CLR. ANODIZED	-	-	"EXIT" TYPE B		F83 EXIT			●			●				●				●					-
118.1	STORAGE ROOM 1	118	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	20 MIN	"STORAGE 1" TYPE A		F86 STOREROOM		●				●	●												-
119.1	ELEC. CLOSET	119	F	WOOD	CLR	2	6' - 0"	7' - 0"	0' - 1 3/4"	F2	HOLLOW METAL	PTD.	-	-	"ELECTRIC ROOM" TYPE A		F75 PASSAGE				●	●														-
120.1	STORAGE ROOM 2	120	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	20 MIN	"STORAGE 2" TYPE A		F86 STOREROOM		●				●	●												-
121.1	SELECTMAN	121	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F3	HOLLOW METAL	PTD.	-	20 MIN	"SELECTMAN OFFICE" TYPE A		F81 OFFICE		●				●					●								-
121.2	SELECTMAN	121	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F75 PASSAGE	●																		-
122.1	ADMIN	122	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	20 MIN	"STAFF ONLY" TYPE A		F86 STOREROOM		●				●						●	●						-
122.2	ADMIN	122	FG2	ALUM.	CLR. ANODIZED	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	ALUM.	CLR. ANODIZED	-	-	"EXIT" TYPE B		F83 EXIT			●			●				●				●					NO HARDWARE ON EXTERIOR
122.3	ADMIN	122	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F75 PASSAGE	●																		-
123.1	TOWN ADMINISTRATOR	123	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F81 OFFICE		●										●	●						-
124.1	FINANCE DIRECTOR	124	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F81 OFFICE		●										●	●						-
125.1	ASSISTANT FINANCE DIRECTOR	125	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F81 OFFICE		●										●	●						-
126.1	WELFARE	126	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	20 MIN	-		F86 STOREROOM		●				●						●	●						-
126.2	WELFARE	126	G	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	-	-		F81 OFFICE		●										●	●						-
128.1	JANITOR	128	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	20 MIN	"JANITOR" TYPE A		F86 STOREROOM		●				●	●												-
129.1	LOBBY	129	FG2	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F4	HOLLOW METAL	PTD.	-	-	-		F83 EXIT			●			●	●												-
130.1	WOMEN'S	130	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	20 MIN	"WOMEN" TYPE D		F76 PRIVACY		●				●						●	●						-
131.1	MEN'S	131	F	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	U/C	20 MIN	"MEN" TYPE D		F76 PRIVACY		●				●						●	●						-
132.1	MEETING	132	FG2	WOOD	CLR	2	6' - 0"	7' - 0"	0' - 1 3/4"	F2	HOLLOW METAL	"	-	120 MIN	"MEETING ROOM 1" TYPE C	PROVIDE 120 MIN RATED GLASS AND FRAME AS REQ'D	F75 PASSAGE			●			●	●												SURFACE MTD. ROD EXIT DEVICE
132.2	MEETING	132	FG2	WOOD	CLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	HOLLOW METAL	PTD.	-	120 MIN	"MEETING ROOM 2" TYPE C	PROVIDE 120 MIN RATED GLASS AND FRAME AS REQ'D	F75 PASSAGE	●					●	●												-
132.3	MEETING	132	FG2	ALUM.	CLR. ANODIZED	1	3' - 0"	7' - 0"	0' - 1 3/4"	F1	ALUM.	CLR. ANODIZED	-	-	-		F83 EXIT			●			●								●					NO HARDWARE ON EXTERIOR
133.1	MEETING	132	F	WOOD	CLR	2	6' - 0"	7' - 0"	0' - 1 3/4"	F2	HOLLOW METAL	PTD.	U/C	-	"STORAGE" TYPE A		F75 PASSAGE				●	●														-
134.1	VESTIBULE	134	CW-FG2	ALUM.	CLR. ANODIZED	2	6' - 0"	8' - 0"	0' - 1 3/4"	S2	ALUM.	CLR. ANODIZED	-	-	-		F83 EXIT			●			●							●	●	●		●		CONCEALED ROD EXIT DEVICE, POWER OPERATOR 1 LEAF ONLY
134.2	VESTIBULE	134	CW-FG2	ALUM.	CLR. ANODIZED	2	6' - 0"	8' - 0"	0' - 1 3/4"	S2	ALUM.	CLR. ANODIZED	-	-	-		F83 EXIT			●			●							●	●	●				CONCEALED ROD EXIT DEVICE, POWER OPERATOR 1 LEAF ONLY

ALL INTERIOR DOORS TO BE SOLID STAVE CORE, OAK VENEER W/ STAIN & CLEAR FINISH

NOTE: AT DOORS 101.1, 101.2, 134.1 AND 134.2 PROVIDE AUTOMATIC DISCONNECT TO MOTOR DOOR OPERATOR WHEN DOOR IS LOCKED.

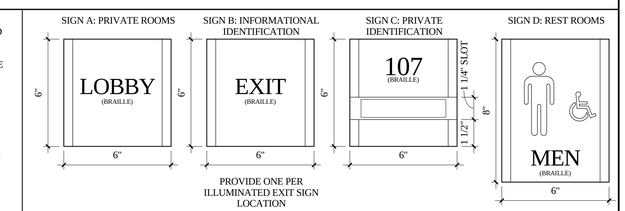


DOOR TYPES:



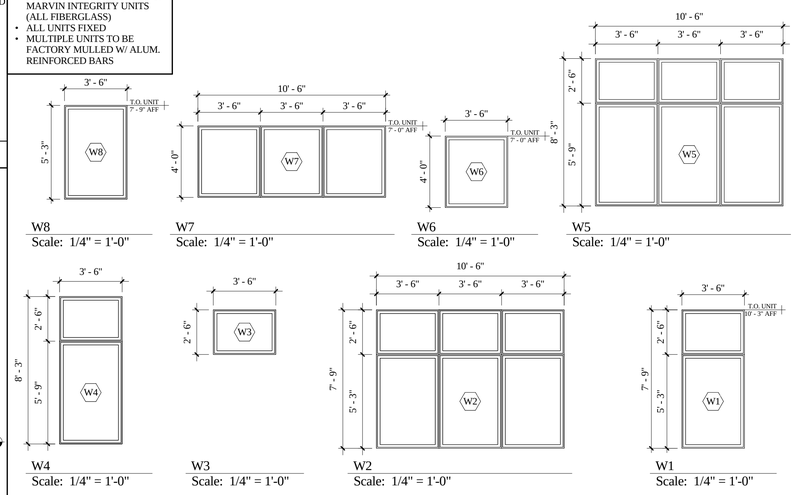
BORROWED LIGHT TYPES:

NOTES:
1. ROOM NUMBER WITH COORDINATED BRAILLE AND SIGNS W/ ROOM NAME/COORDINATED BRAILLE SHALL BE TAKEN FROM THE FINISH SCHEDULE "ROOM NAME" DESIGNATIONS. OWNER TO VERIFY FINAL SIGN TEXT.
2. U.O.N. OR MORE SPECIFICALLY DEFINED IN THE SPECIFICATIONS, PROVIDE ONE SIGN PER INTERIOR DOORWAY. PROVIDE TWO SIGNS FOR DOORS IN PATHS OF TRAVEL, PROVIDE ONE HANDICAPPED PARKING SIGN FOR EACH HANDICAPPED PARKING SPACE.
3. SIGNAGE TO HAVE CURVED FRONT FACE WITH SIDE FRAMES; COLOR AND FINISHES T.B.D.

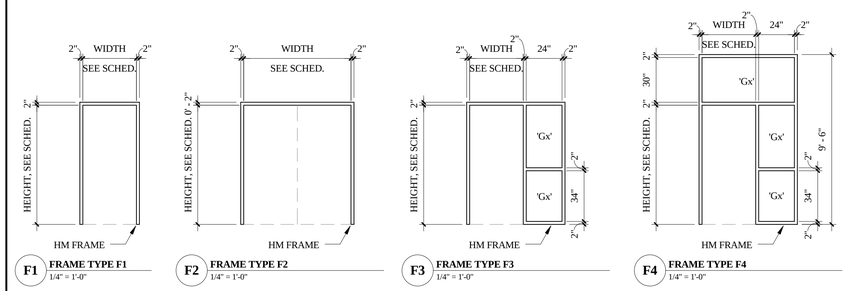


WINDOW TYPES:

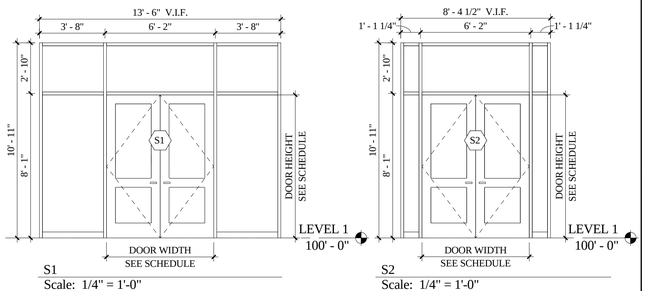
NOTES:
- ALL WINDOWS ARE BASED ON MARVIN INTEGRITY UNITS (ALL FIBERGLASS)
- ALL UNITS FIXED
- MULTIPLE UNITS TO BE FACTORY MULLED W/ ALUM. REINFORCED BARS



WINDOW TYPES:



FRAME TYPES:



STOREFRONT TYPES:

LICENSED ARCHITECT JASON W. LaCOMBE No. 3549 STATE OF NEW HAMPSHIRE
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FAX: 603.228.8881
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smp ARCHITECTURE

NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
DOOR, FRAME AND HARDWARE SCHEDULES

ISSUED FOR: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: CV
CHECKED BY: JL
DATE: 12/11/2015

REVISION	DATE

SHEET NUMBER:
A601

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GENERAL NOTES:

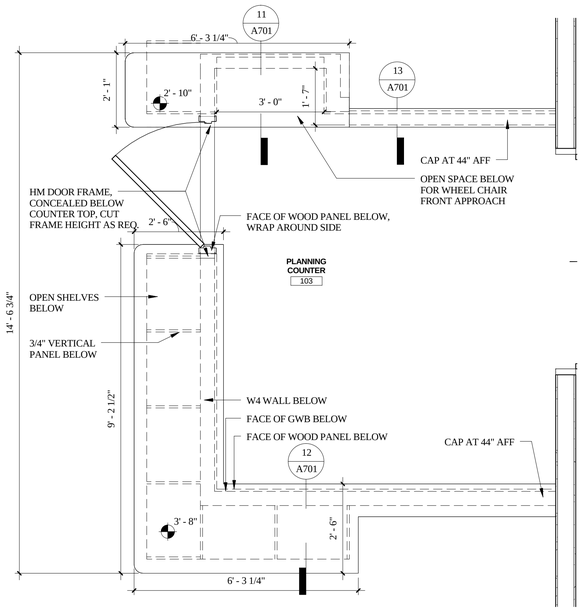
1. REFRIGERATOR & MICROWAVE TO BE PROVIDED BY OWNER & INSTALLED BY G.C.
2. UNDER COUNTER KEYBOARD TRAYS TO BE PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
3. PROVIDE FILLER PIECES AS REQ.
4. PROVIDE 4" MTL SATIN NICKEL WIRE PULLS, TYP.
5. PROVIDE P-LAM FLUSH OVERLAY CABINETS U.O.N.
6. AT WET LOCATIONS PROVIDE P-LAM COUNTERTOPS W/ INTEGRAL P-LAM EDGE BAND.
7. PROVIDE OAK BULLNOSE EDGE AT COUNTERS WHERE SHOWN, FINISH TO MATCH DOORS.
8. PROVIDE INTEGRAL 4" P-LAM BACKSPLASH; 6" @ SINK COUNTED, TYP.
9. PROVIDE MAPLE MELAMINE INTERIORS, TYP.
10. PROVIDE SOLID OAK CASEWORK AT TOWN CLERKS AREA, PROVIDE OAK INTERIORS, TYP. SEE SPECIFICATIONS
11. PROVIDE ANCHORAGE & BLOCKING @ ALL COUNTERTOP BRACKETS, TYP.
12. PROVIDE SOLID WOOD CLEAT ON WALL FOR ALL COUNTERTOP BRACKETS, TYP.
13. ASSUME 1-1/2" PLASTIC WIRE GROMMETS & DRILLED SURFACE FOR EACH WORK COUNTER, WHERE SHOWN, TO BE VERIFIED IN FIELD BY OWNER.
14. 6" ALUM SPEAK-THRU @ RECEPTION DESKS BASED ON: NISSEN #425.

GENERAL NOTES:

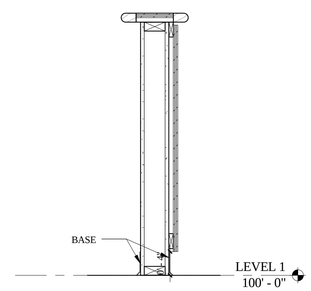
1. PROVIDE BLOCKING IN WALLS FOR ALL BATHROOM ACCESSORIES.
2. ALL RESTROOM FIXTURES TO BE ADA COMPLIANT.
3. PROVIDE A MOP RACK AND SHELF AT MOP SINK LOCATION(S).

RESTROOM PLAN KEYNOTES:

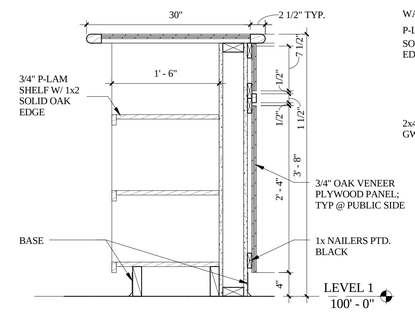
1. 36" GRAB BAR
2. 42" GRAB BAR
3. 18" GRAB BAR
4. TOILET PAPER DISPENSER BOBRICK B-4288
5. PAPER TOWEL DISPENSER BOBRICK B-72974
6. SOAP DISPENSER: BOBRICK B-2111
7. 24" WIDE x 42" TALL STAINLESS STEEL FRAMED MIRROR
8. BOBRICK B-166 2436: COAT HOOK
9. CHANGING STATION: BASED ON KOALA MODEL, PROVIDE AT ROOMS # 130 & #131



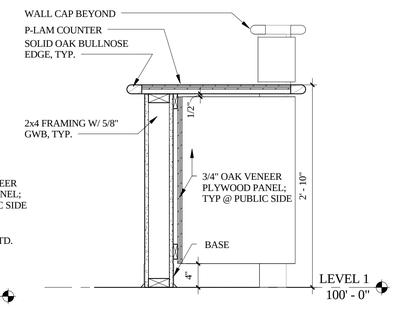
14 PLANNING COUNTER #103 PLAN
Scale: 1/2" = 1'-0"



13 PLANNING #103 - WOOD CAP
Scale: 1" = 1'-0"



12 PLANNING #103 - FULL HEIGHT COUNTER
Scale: 1" = 1'-0"



11 PLANNING #103 - ADA STATION
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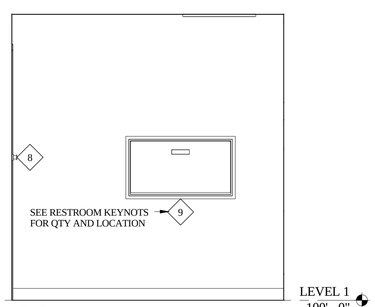
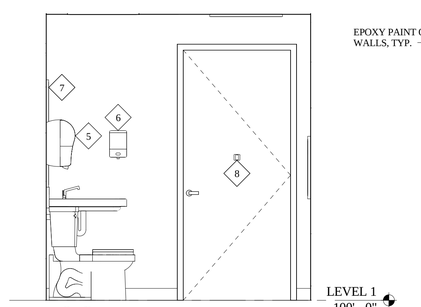
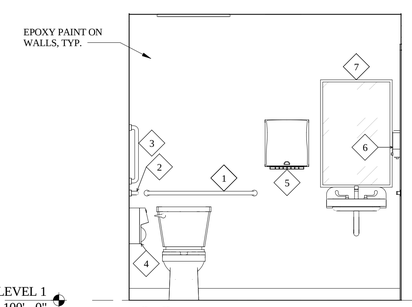


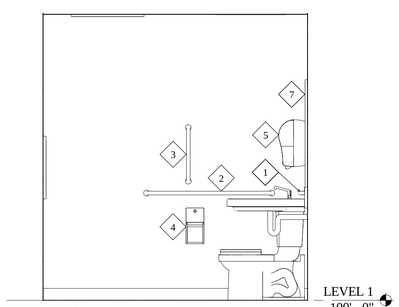
10 MEN'S #131 - PART D
Scale: 1/2" = 1'-0"



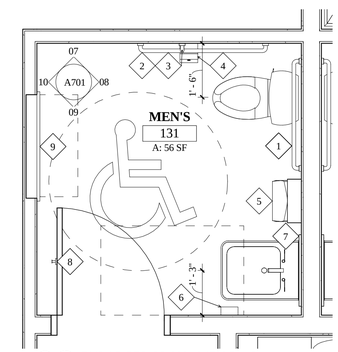
09 MEN'S #131 - PART C
Scale: 1/2" = 1'-0"



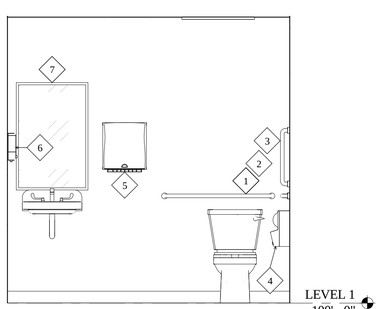
08 MEN'S #131 - PART B
Scale: 1/2" = 1'-0"



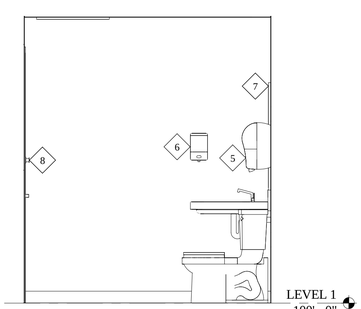
07 MEN'S #131 - PART A
Scale: 1/2" = 1'-0"



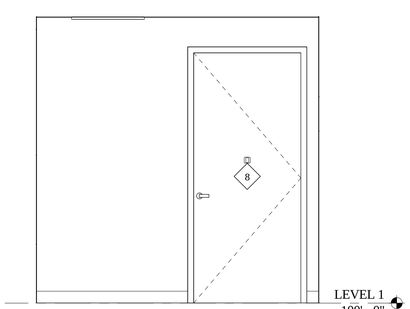
02 ENLARGED PLAN - MEN'S #131
Scale: 1/2" = 1'-0"



06 WOMEN'S #115 - PART D
Scale: 1/2" = 1'-0"



05 WOMEN'S #115 - PART C
Scale: 1/2" = 1'-0"



04 WOMEN'S #115 - PART B
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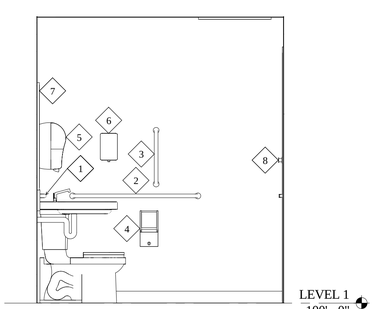
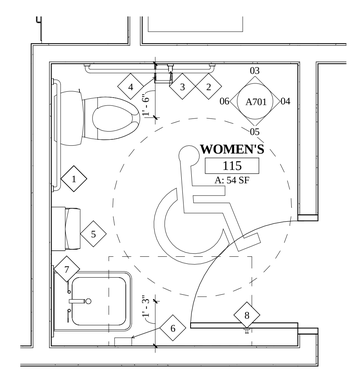


03 WOMEN'S #115 - PART A
Scale: 1/2" = 1'-0"



01 ENLARGED PLAN - WOMEN'S #115
Scale: 1/2" = 1'-0"

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NOTE: IT IS THE G.C.'S, CM'S AND SUB-CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
CASEWORK TYPES & ENLARGED RESTROOM PLANS & ELEVATIONS

ISSUED FOR: BID & CONSTRUCTION SET

JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A701

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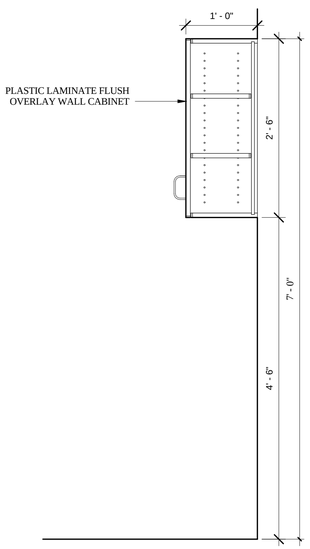
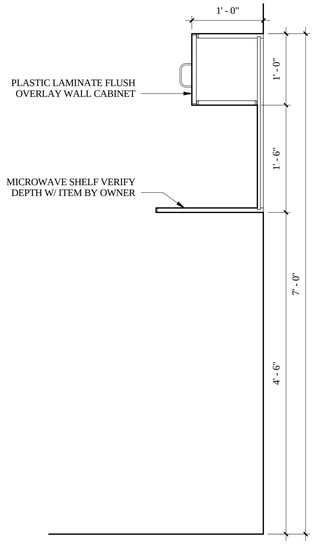
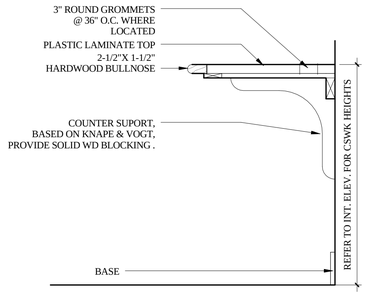


C6 C4 WALL CABINET
Scale: 1" = 1'-0"



C5 C3 WALL CABINET
Scale: 1" = 1'-0"



C4 C5 WORK COUNTER
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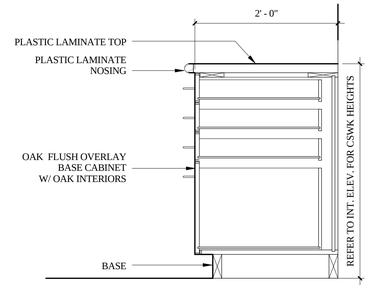
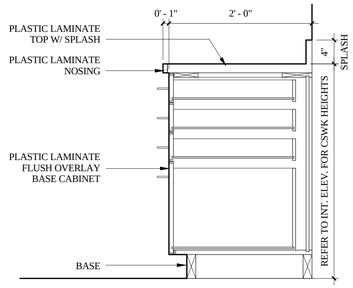


C3 C3 OAK DRAWER BASE CABINET
Scale: 1" = 1'-0"



C2 C2 DRAWER BASE CABINET
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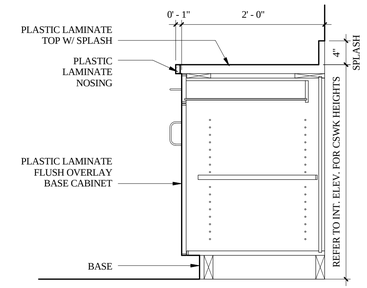
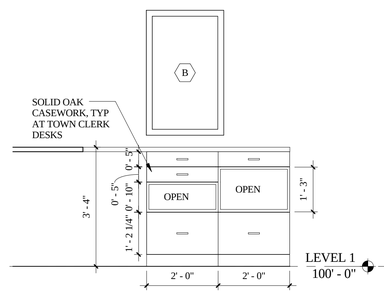
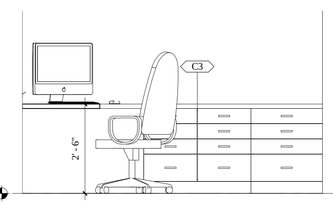


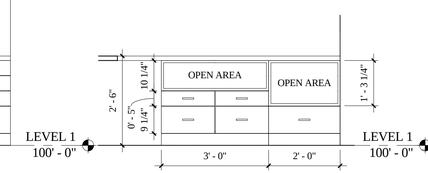
C1 C1 DOOR/DRAWER BASE CABINET
Scale: 1" = 1'-0"



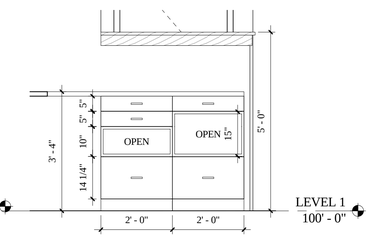
12 TOWN CLERK #111 - PART D
Scale: 1/2" = 1'-0"



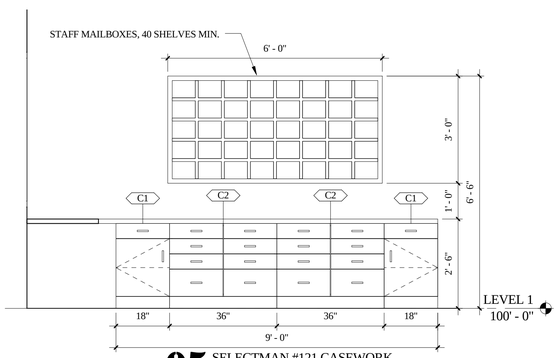
11 TOWN CLERK # 111 PART C
Scale: 1/2" = 1'-0"



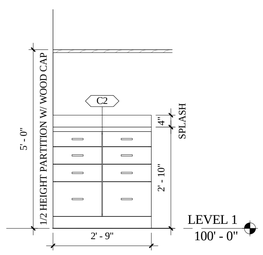
10 TOWN CLERK #111 - PART B
Scale: 1/2" = 1'-0"



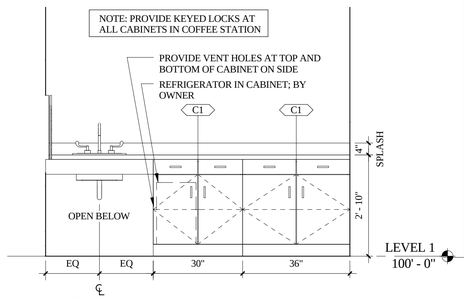
9 TOWN CLERK #111 - PART A
Scale: 1/2" = 1'-0"



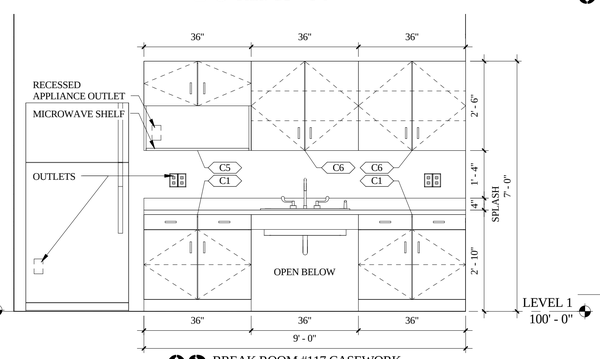
05 SELECTMAN #121 CASEWORK
Scale: 1/2" = 1'-0"



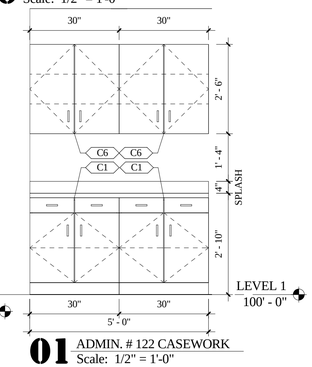
04 PLANNING DEPT. #108 CASEWORK
Scale: 1/2" = 1'-0"



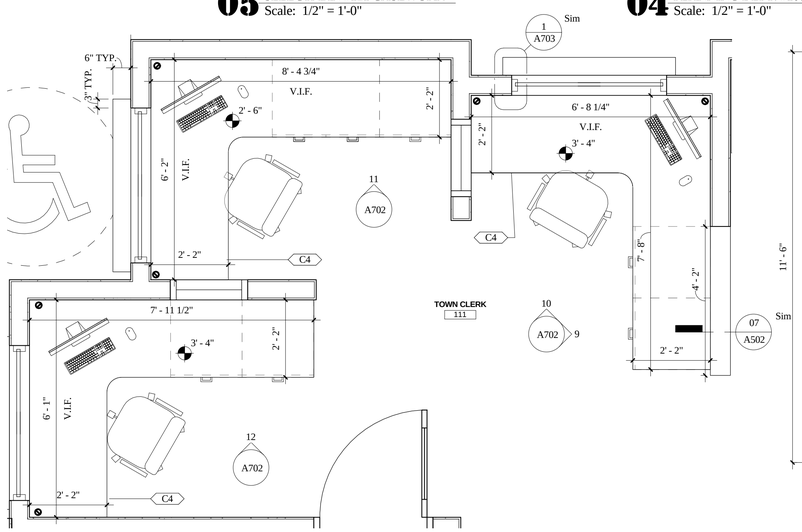
03 COFFEE STATION CASEWORK @ LOBBY #129
Scale: 1/2" = 1'-0"



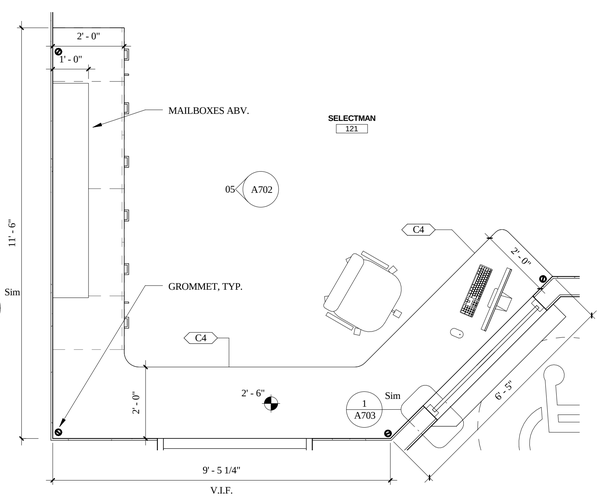
02 BREAK ROOM #117 CASEWORK
Scale: 1/2" = 1'-0"



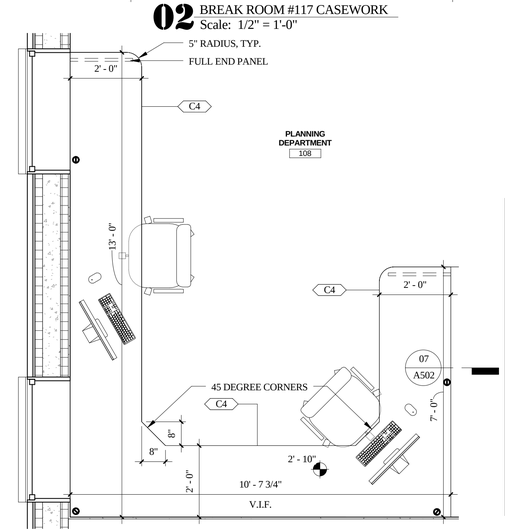
01 ADMIN. # 122 CASEWORK
Scale: 1/2" = 1'-0"



08 TOWN CLERK #111 PLAN
Scale: 1/2" = 1'-0"



07 SELECTMAN #121 PLAN
Scale: 1/2" = 1'-0"



06 PLANNING DEPARTMENT #108 PLAN
Scale: 1/2" = 1'-0"

GENERAL NOTES:

1. REFRIGERATOR & MICROWAVE TO BE PROVIDED BY OWNER & INSTALLED BY G.C.
2. UNDER COUNTER KEYBOARD TRAYS TO BE PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
3. PROVIDE FILLER PIECES AS REQ.
4. PROVIDE 4" MTL SATIN NICKEL WIRE PULLS, TYP.
5. PROVIDE P-LAM FLUSH OVERLAY CABINETS U.O.N.
6. AT WET LOCATIONS PROVIDE P-LAM COUNTERTOPS W/ INTEGRAL P-LAM EDGE BAND.
7. PROVIDE OAK BULLNOSE EDGE AT COUNTERS WHERE SHOWN, FINISH TO MATCH DOORS.
8. PROVIDE INTEGRAL 4" P-LAM BACKSPLASH; 6" @ SINK COUNTED, TYP.
9. PROVIDE MAPLE MELAMINE INTERIORS, TYP.
10. PROVIDE SOLID OAK CASEWORK AT TOWN CLERKS AREA, PROVIDE OAK INTERIORS, TYP. SEE SPECIFICATIONS
11. PROVIDE ANCHORAGE & BLOCKING @ ALL COUNTERTOP BRACKETS, TYP.
12. PROVIDE SOLID WOOD CLEAT ON WALL FOR ALL COUNTERTOP BRACKETS, TYP.
13. ASSUME 1-1/2" PLASTIC WIRE GROMMETS & DRILLED SURFACE FOR EACH WORK COUNTER, WHERE SHOWN, TO BE VERIFIED IN FIELD BY OWNER.
14. 6" ALUM SPEAK-THRU @ RECEPTION DESKS BASED ON: NISSEN #425.

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NOTE: IT IS THE G.C.'S, CM'S AND SUB-CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT: BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: INTERIOR ELEVATIONS, ENLARGED PLANS & CASEWORK DETAILS

ISSUED FOR: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: CV
CHECKED BY: JL
DATE: 12/11/2015

REVISION	DATE

SHEET NUMBER: A702

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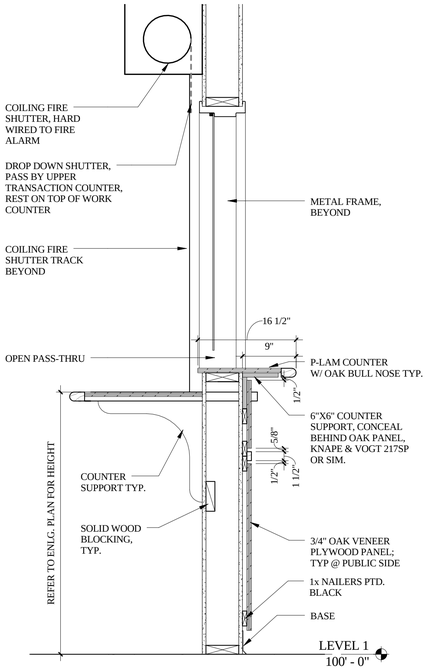
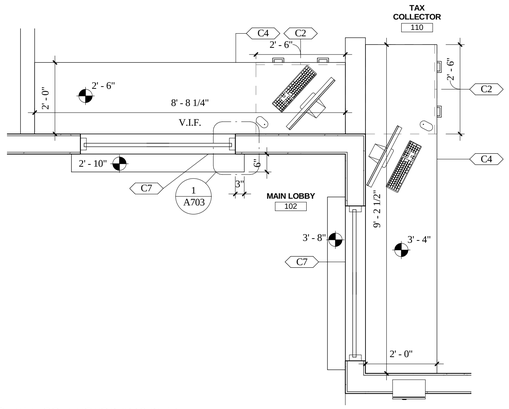
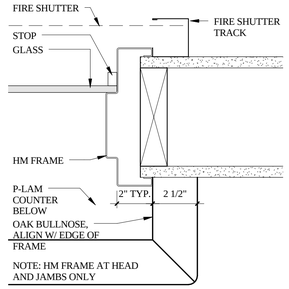


7 TRANSACTION COUNTER
Scale: 1" = 1'-0"



2 TAX COLLECTOR #110 PLAN
Scale: 1/2" = 1'-0"



1 TYPICAL SERVICE WINDOW JAMB DETAIL
Scale: 3" = 1'-0"

GENERAL NOTES:

1. REFRIGERATOR & MICROWAVE TO BE PROVIDED BY OWNER & INSTALLED BY G.C.
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10. PROVIDE SOLID OAK CASEWORK AT TOWN CLERKS AREA, PROVIDE OAK INTERIORS, TYP. SEE SPECIFICATIONS
11. PROVIDE ANCHORAGE & BLOCKING @ ALL COUNTERTOP BRACKETS, TYP.
12. PROVIDE SOLID WOOD CLEAT ON WALL FOR ALL COUNTERTOP BRACKETS, TYP.
13. ASSUME 1-1/2" PLASTIC WIRE GROMMETS & DRILLED SURFACE FOR EACH WORK COUNTER, WHERE SHOWN, TO BE VERIFIED IN FIELD BY OWNER.
14. 6" ALUM SPEAK-THRU @ RECEPTION DESKS BASED ON: NISSEN #425.

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ENLARGED PLANS & CASEWORK DETAILS

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	Author
CHECKED BY:	Checker
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A703

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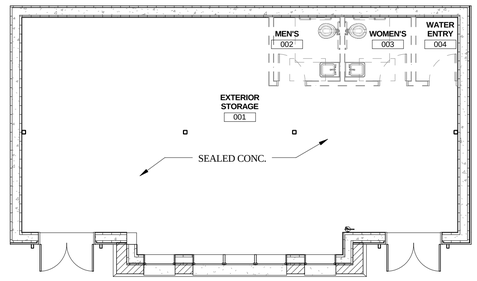
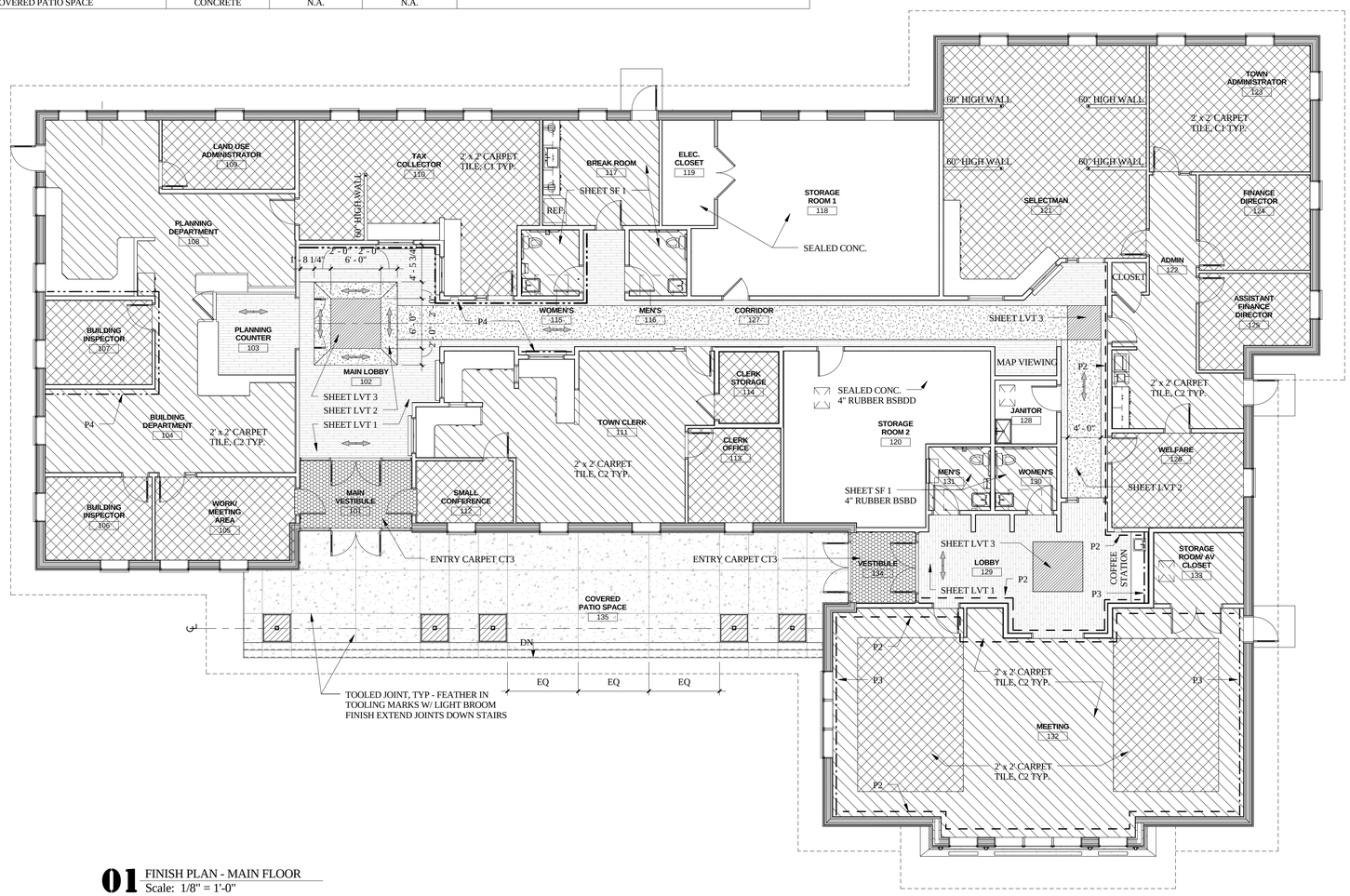
FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	COMMENTS
LOWER LEVEL					
001	EXTERIOR STORAGE	CONCRETE	N.A.	TYPE 2 - TAPE	
002	MEN'S	CONCRETE	N.A.	TYPE 2 - TAPE	
003	WOMEN'S	CONCRETE	N.A.	TYPE 2 - TAPE	
004	WATER ENTRY	CONCRETE	N.A.	TYPE 2 - TAPE	
LEVEL 1					
101	MAIN VESTIBULE	WALK-OFF CARPET	4" VINYL	GWB, PTD.	
102	MAIN LOBBY	LVT	4" VINYL- BX2	GWB, PTD.	
103	PLANNING COUNTER	LVT	4" VINYL- BX2	GWB, PTD.	
104	BUILDING DEPARTMENT	CARPET TILE	4" VINYL	GWB, PTD.	
105	WORK/ MEETING AREA	CARPET TILE	4" VINYL	GWB, PTD.	
106	BUILDING INSPECTOR	CARPET TILE	4" VINYL	GWB, PTD.	
107	BUILDING INSPECTOR	CARPET TILE	4" VINYL	GWB, PTD.	
108	PLANNING DEPARTMENT	CARPET TILE	4" VINYL	GWB, PTD.	
109	LAND USE ADMINISTRATOR	CARPET TILE	4" VINYL	GWB, PTD.	
110	TAX COLLECTOR	CARPET TILE	4" VINYL	GWB, PTD.	
111	TOWN CLERK	CARPET TILE	4" VINYL	GWB, PTD.	
112	SMALL CONFERENCE	CARPET TILE	4" VINYL	GWB, PTD.	
113	CLERK OFFICE	CARPET TILE	4" VINYL	GWB, PTD.	
114	CLERK STORAGE	CARPET TILE	4" VINYL	GWB, PTD.	
115	WOMEN'S	SHEET VINYL	4" VINYL	GWB, PTD.	EPOXY PAINT ON WALLS
116	MEN'S	SHEET VINYL	4" VINYL	GWB, PTD.	EPOXY PAINT ON WALLS
117	BREAK ROOM	SHEET VINYL	4" VINYL	GWB, PTD.	
118	STORAGE ROOM 1	CONCRETE	4" VINYL	GWB, PTD.	
119	ELEC. CLOSET	CONCRETE	4" VINYL	GWB, PTD.	
120	STORAGE ROOM 2	CONCRETE	4" VINYL	GWB, PTD.	
121	SELECTMAN	CARPET TILE	4" VINYL	GWB, PTD.	
122	ADMIN	CARPET TILE	4" VINYL	GWB, PTD.	
123	TOWN ADMINISTRATOR	CARPET TILE	4" VINYL	GWB, PTD.	
124	FINANCE DIRECTOR	CARPET TILE	4" VINYL	GWB, PTD.	
125	ASSISTANT FINANCE DIRECTOR	CARPET TILE	4" VINYL	GWB, PTD.	
126	WELFARE	CARPET TILE	4" VINYL	GWB, PTD.	
127	CORRIDOR	LVT	4" VINYL- BX2	GWB, PTD.	
128	JANITOR	LVT	4" VINYL	GWB, PTD.	
129	LOBBY	LVT	4" VINYL- BX2	GWB, PTD.	
130	WOMEN'S	SHEET VINYL	4" VINYL	GWB, PTD.	EPOXY PAINT ON WALLS
131	MEN'S	SHEET VINYL	4" VINYL	GWB, PTD.	EPOXY PAINT ON WALLS
132	MEETING	CARPET TILE	4" VINYL	GWB, PTD.	
133	STORAGE ROOM/ AV CLOSET	CARPET TILE	4" VINYL	GWB, PTD.	
134	VESTIBULE	WALK-OFF CARPET	4" VINYL	GWB, PTD.	
135	COVERED PATIO SPACE	CONCRETE	N.A.	N.A.	



02 FINISH PLAN - LOWER FLOOR
Scale: 1/8" = 1'-0"



01 FINISH PLAN - MAIN FLOOR
Scale: 1/8" = 1'-0"

GENERAL PLAN NOTES:

1. ALL GYPSUM BOARD CEILINGS WILL BE PAINTED COLOR: P1 FLAT FINISH, UNLESS OTHERWISE NOTED.
2. ALL GYPSUM WALLS TO BE PAINTED COLOR: P1 U.O.N.
3. ALL HM DOOR FRAMES WILL BE PAINTED COLOR: P2
4. ALL INTERIOR WOOD DOORS TO BE QUARTER SAWN WHITE OAK W/ STANDARD MANUFACTURES FINISH, BASED ON MOHAWK "CLEAR"
5. ALL WINDOW SILLS TO BE OAK, TO MATCH DOORS.
6. CAPS ON PARTIAL HEIGHT WALLS: SOLID OAK, STAINED TO MATCH DOORS, SEE DETAILS.
7. ALL WOOD THROUGHOUT PROJECT TO BE OAK TO MATCH DOORS.
8. ALL WINDOW AND DOORS TO HAVE GWB RETURNS AT HEAD & JAMBS, PAINTED TO MATCH WALL.
9. ALL GWB SHALL BE PAINTED COLORS: AS SHOWN; ALL TRIM ACCESSORIES SHALL BE CONCEALED 'TAPED' IN TYPE AND PAINTED TO MATCH WALL. PROVIDE REVEAL TRIMS/CONTROL JOINTS BY FRY REGLET OR SIM. AS NOTED ON DETAILS.
10. RUBBER BASE THROUGHOUT U.O.N IS COLOR BX1.
11. RUBBER BASE FOR CORRIDOR, LOBBY & PLANNING COUNTER IS COLOR BX2.
12. PROVIDE ALUMN. TRANSITION STRIP BETWEEN DISSIMILAR FLOORING MATERIALS; IE: VCT/CARPET, SHEET LVT/CARPET, TILE, ETC.
13. FINISH PRODUCTS LISTED ARE BASIS OF DESIGN.
14. FINAL SELECTIONS TO BE DETERMINED BY ARCHITECT & OWNER.
15. EXPOSED CONC. FLOORS TO BE SEALED.
16. COUNTERTOPS THROUGHOUT TO BE PLASTIC LAMINATE, COLOR T.B.D. SEE CASEWORK DETAILS.
17. MISC. METALS TO BE PAINTED COLOR P2, U.O.N.
18. WALK OFF MAT: MANNINGTON COMMERCIAL EXTREME TILE; REDEEM #3520

FINISH MATERIAL SELECTIONS:

PAINT COLORS:
P1: SW 7014 EIDER WHITE
P2: SW 7017 DORIAN GRAY
P3: SW 2863 POWDER BLUE
P4: SW 6347 CHRYSANTHEMUM

CARPET/TILE: MOHAWK
C1: CARPET TILE, STYLE: VENTURESOME BT356, COLOR: 358 THRILL SEEKER
C2: CARPET TILE, STYLE: GRANIAC, INSURGENT, COLOR: 358 THRILL SEEKER
C3: ENTRY CARPET, MANNINGTON, STYLE: RECOARSE II, COLOR: TRAVERSE TAN 8413

VINYL BASE: JOHNSONITE
BX1: 4" TOELESS, COLOR: #32 PEBBLE WG
BX2: 4" TOELESS, COLOR: #44 DARK BROWN B

LVT FLOORING: MANNINGTON COMMERCIAL NATURES PATHS

LVT 1: VIA PASSO; 18 x 18 - 12346
LVT 2: VIA REGIA; 18 x 18 - 12350
LVT 3: VENA DURANGO 18 X18 - 12366- AT LOBBIES ALIGN W/ CEILING COFFERS ABOVE

SHEET FLOORING: MANNINGTON COMMERCIAL
SF 1: VIVENDI, WOVEN, PARCHMENT VIV123

PLASTIC LAMINATE: WILSONART
PL1: 4940K-18 ASTRO STRANDZ, CASEWORK FACE, HORIZONTAL
PL2: 4880-38 CARBON MESH, COUNTERTOP & BACK SPLASH

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
FINISH PLAN AND SCHEDULE

ISSUED FOR:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	CV
CHECKED BY:	JL
DATE:	12/11/2015

REVISION	DATE

SHEET NUMBER:
A901

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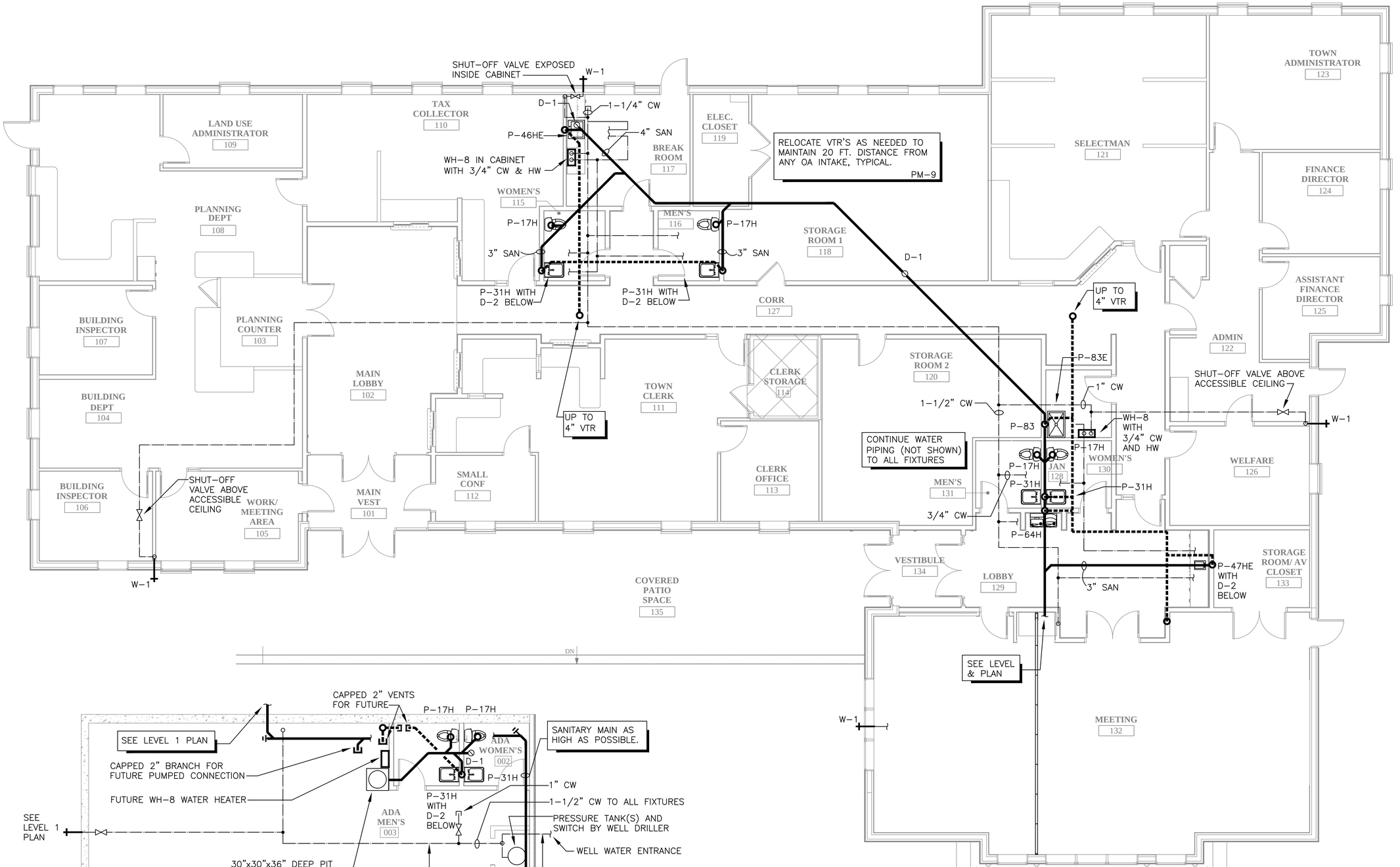
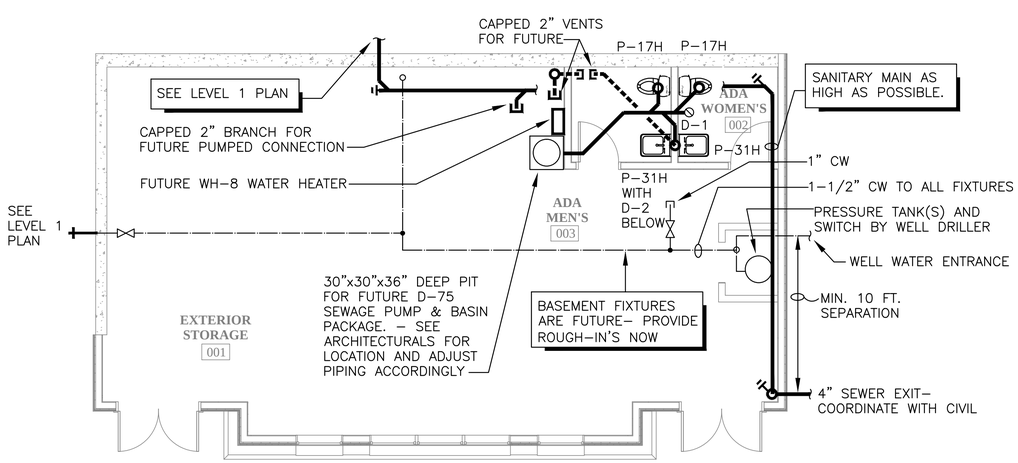


2 LEVEL 1– PLUMBING PLAN
SCALE: 3/16" = 1'-0"



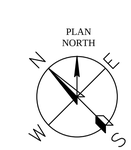
1 LEVEL 0– PLUMBING PLAN
SCALE: 3/16" = 1'-0"

PIPE SIZE SCHEDULE (COMMERCIAL)

(AS APPLICABLE, UNLESS SHOWN OTHERWISE)

SINGLE FIXTURES	COLD SUPPLY	HOT SUPPLY	DRAIN
LAVATORY, DRINKING FOUNTAIN (1 TO 2)	1/2"	1/2"	1-1/2"
SINK, (1 TO 2)	1/2"	1/2"	2"
TOILET, TANK (1 TO 2)	1/2"	--	3"
VENT, PLUMBING	--	--	2" OR AS SHOWN
WALL HYDRANT/HOSE BIB	3/4"	--	--

PB-2C



THE STATE OF NEW HAMPSHIRE ROY E. SWANN No. 10594 LICENSED PROFESSIONAL ENGINEER

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NOTE: IT IS THE G.C.'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
LEVEL 0 & LEVEL 1 PLUMBING PLAN

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: mb
CHECKED BY: RES
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:
M100

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PROVIDE CONDENSATE DRAIN SYSTEM TO SERVE EVERY INDOOR HEAT PUMP UNIT. TYPICAL

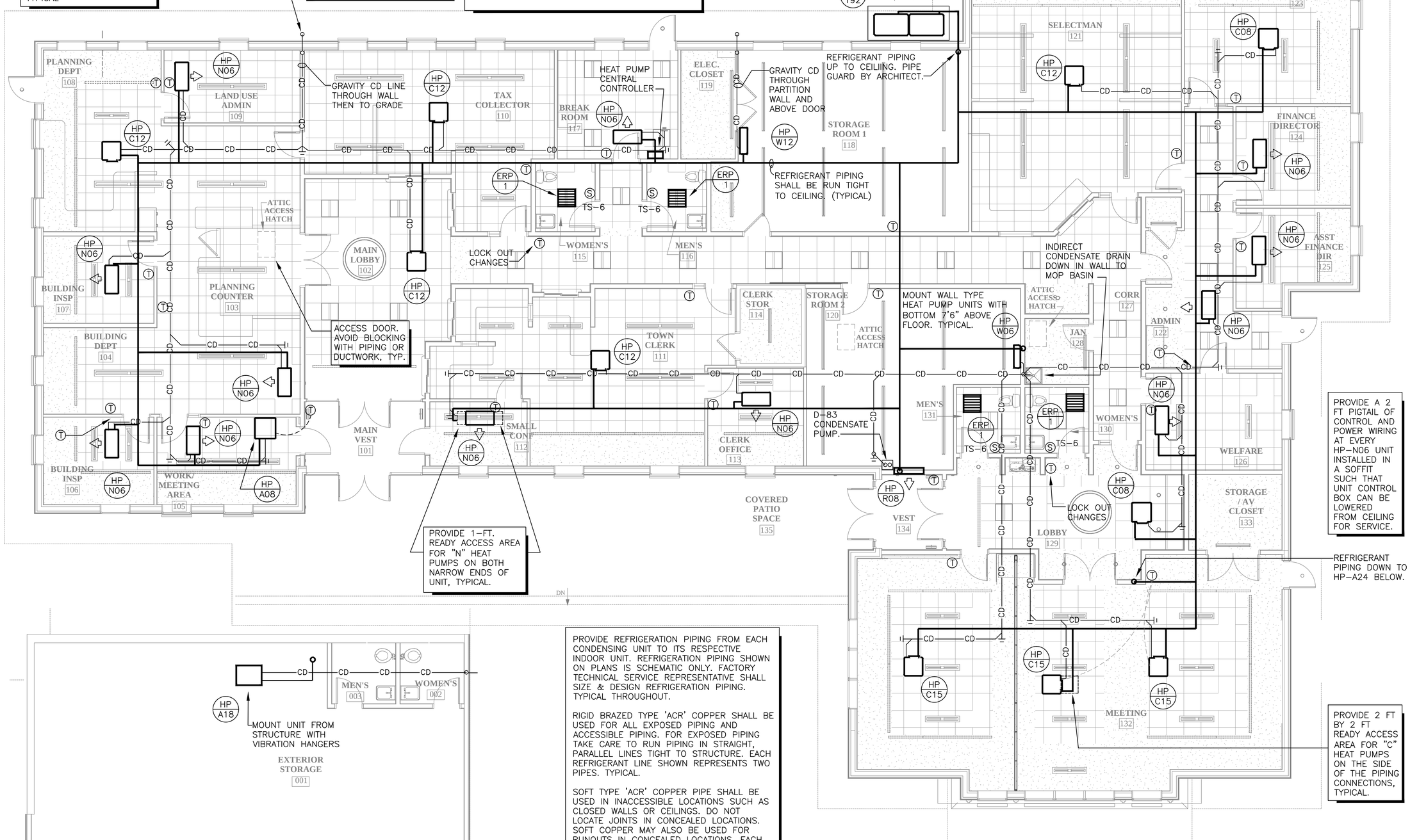
CONDENSATE DRAIN TO GRADE. TRANSITION FROM PVC TO COPPER PRIOR TO EXITING BUILDING, INSULATE THE COPPER WITHIN THE BUILDING WALL. PROVIDE SLEEVE THROUGH ICF WALL. TYPICAL.

CONDENSATE DRAINS

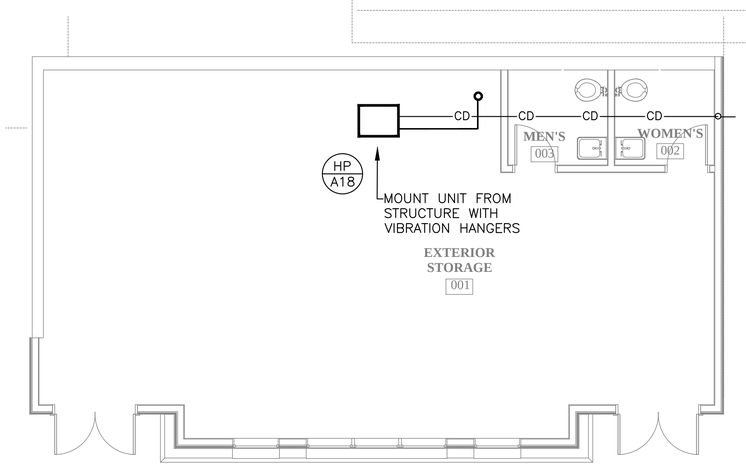
- FOR UNITS WITH CONDENSATE PUMPS, PROVIDE APPROXIMATE 3/4" PVC PIPING UP TO 1-1/2" PVC GRAVITY CONDENSATE DRAIN SYSTEM
- FOR "W" WALL UNITS WITHOUT CONDENSATE PUMPS, PROVIDE GRAVITY DRAINAGE AS SHOWN

SEE CIVIL DRAWINGS FOR PAD

LOCATE UNITS SO THAT WATER FROM ROOF EDGE DOES NOT FALL ON THEM



2 LEVEL 1- HEATING PLAN
SCALE: 3/16" = 1'-0"



1 LEVEL 0- HEATING PLAN
SCALE: 3/16" = 1'-0"

PROVIDE REFRIGERATION PIPING FROM EACH CONDENSING UNIT TO ITS RESPECTIVE INDOOR UNIT. REFRIGERATION PIPING SHOWN ON PLANS IS SCHEMATIC ONLY. FACTORY TECHNICAL SERVICE REPRESENTATIVE SHALL SIZE & DESIGN REFRIGERATION PIPING. TYPICAL THROUGHOUT.

RIGID BRAZED TYPE 'ACR' COPPER SHALL BE USED FOR ALL EXPOSED PIPING AND ACCESSIBLE PIPING. FOR EXPOSED PIPING TAKE CARE TO RUN PIPING IN STRAIGHT, PARALLEL LINES TIGHT TO STRUCTURE. EACH REFRIGERANT LINE SHOWN REPRESENTS TWO PIPES. TYPICAL.

SOFT TYPE 'ACR' COPPER PIPE SHALL BE USED IN INACCESSIBLE LOCATIONS SUCH AS CLOSED WALLS OR CEILINGS. DO NOT LOCATE JOINTS IN CONCEALED LOCATIONS. SOFT COPPER MAY ALSO BE USED FOR RUNOUTS IN CONCEALED LOCATIONS. EACH REFRIGERANT LINE SHOWN REPRESENTS TWO PIPES. TYPICAL.

PLAN NORTH

NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE: LEVEL 0 & LEVEL 1 HEATING PLANS

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: mb
CHECKED BY: RES
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:
M200

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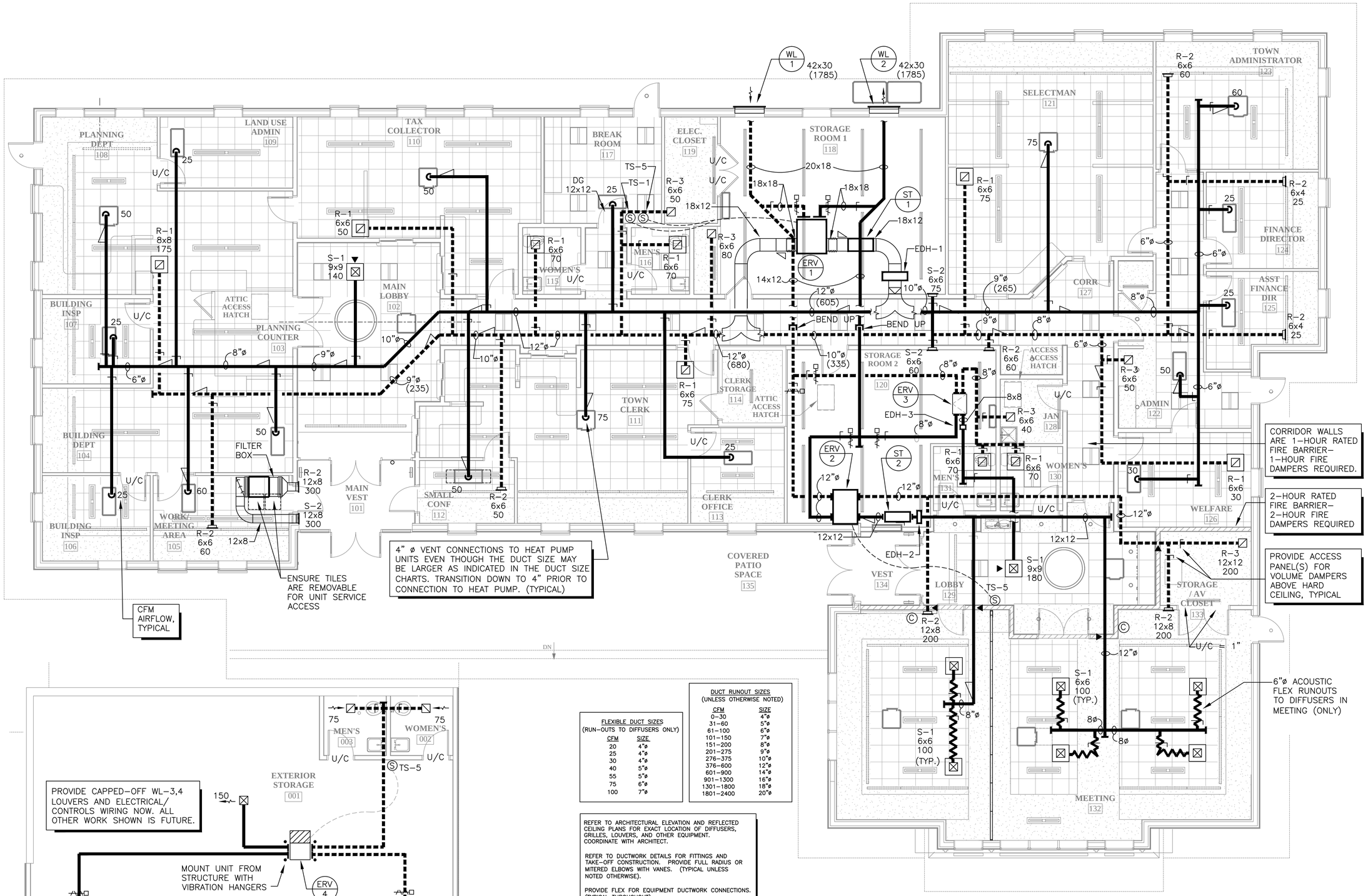
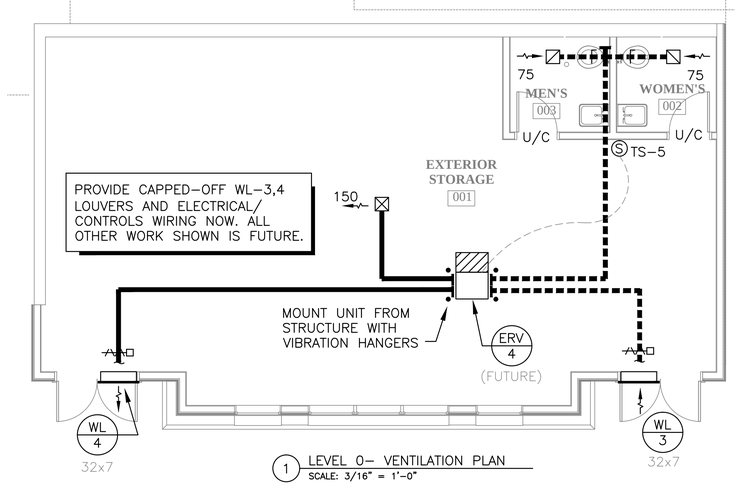


2 LEVEL 1– VENTILATION PLAN
SCALE: 3/16" = 1'-0"



1 LEVEL 0– VENTILATION PLAN
SCALE: 3/16" = 1'-0"

FLEXIBLE DUCT SIZES
(RUN-OUTS TO DIFFUSERS ONLY)

CFM	SIZE
20	4"ø
25	4"ø
30	4"ø
40	5"ø
55	5"ø
75	6"ø
100	7"ø

DUCT RUNOUT SIZES
(UNLESS OTHERWISE NOTED)

CFM	SIZE
0–30	4"ø
31–60	5"ø
61–100	6"ø
101–150	7"ø
151–200	8"ø
201–275	9"ø
276–375	10"ø
376–600	12"ø
601–900	14"ø
901–1300	16"ø
1301–1800	18"ø
1801–2400	20"ø

REFER TO ARCHITECTURAL ELEVATION AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DIFFUSERS, GRILLES, LOUVERS, AND OTHER EQUIPMENT. COORDINATE WITH ARCHITECT.

REFER TO DUCTWORK DETAILS FOR FITTINGS AND TAKE-OFF CONSTRUCTION. PROVIDE FULL RADIUS OR MITERED ELBOWS WITH VANES. (TYPICAL UNLESS NOTED OTHERWISE).

PROVIDE FLEX FOR EQUIPMENT DUCTWORK CONNECTIONS. (TYPICAL THROUGHOUT).

MAINTAIN REQUIRED ELECTRICAL CLEARANCES.

PROVIDE DUCTWORK COORDINATION DRAWINGS FOR ALL DUCTWORK WITH ANY DIMENSION 12 INCHES OR GREATER, WITH THE DRAWINGS SHOWING THAT DUCTWORK WILL FIT IN THE AVAILABLE SPACE.

NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

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PROJECT:
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Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
LEVEL 0 & LEVEL 1 VENTILATION PLANS

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: mb
CHECKED BY: RES
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:
M300

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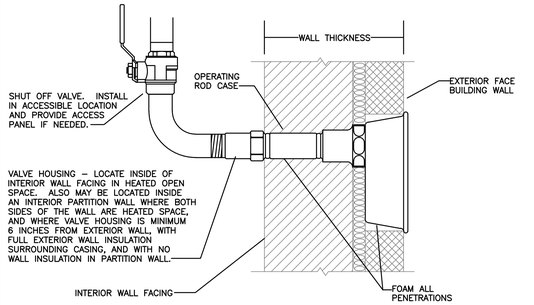
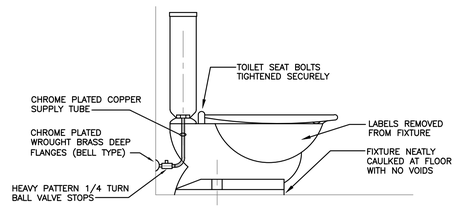


WALL HYDRANT

FLUSH STYLE SHOWN, EXPOSED STYLE SIMILAR
SEE ARCHITECTURALS FOR ACTUAL WALL CONSTRUCTION

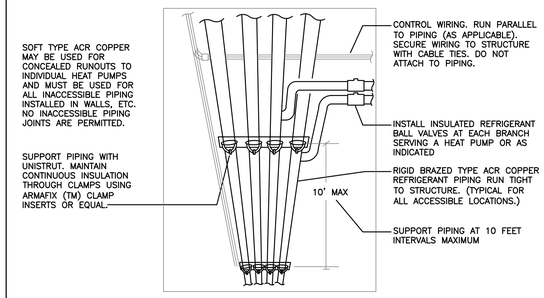
430–01



TOILET DETAIL

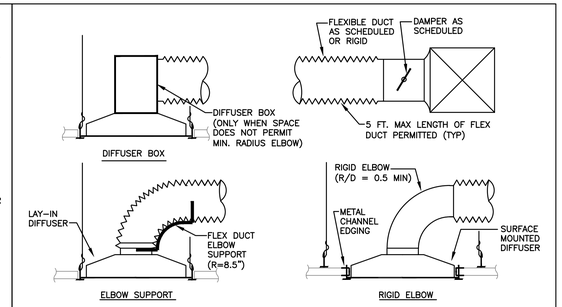
TANK TOILETS

440–02



REFRIGERANT PIPING DETAIL

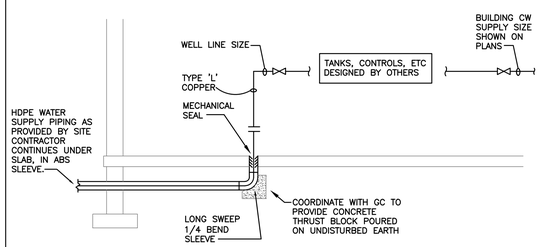
683–33



CEILING DIFFUSER DUCTWORK OPTIONS

CEILING SUPPORT SYSTEM MUST SUPPORT DIFFUSER WEIGHT
WHEN FLEXIBLE CONNECTIONS ARE USED. PROPERLY SIZE HOLE
IN CEILING TILE. DIFFUSER DOES NOT SUPPORT THE TILE.

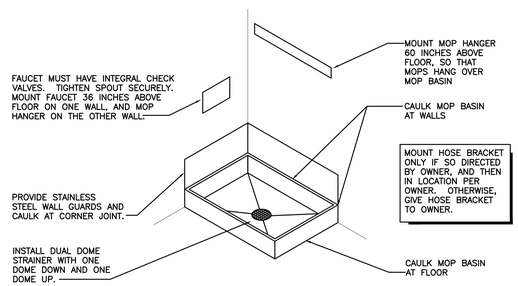
891–13



WELL WATER ENTRANCE DETAIL

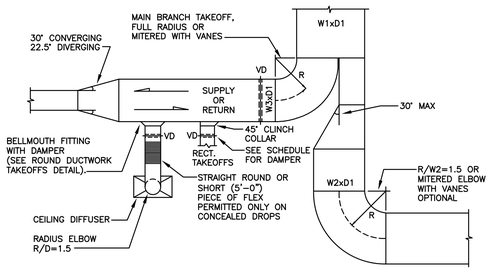
UNDER SLAB PIPING, TANKS AND CONTROLS BY OTHERS

430–76



MOP BASIN WITH WALL GUARDS

440–20



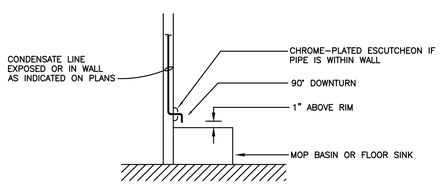
TYPICAL SUPPLY OR RETURN DUCT, RECTANGULAR

891–01

LEGEND

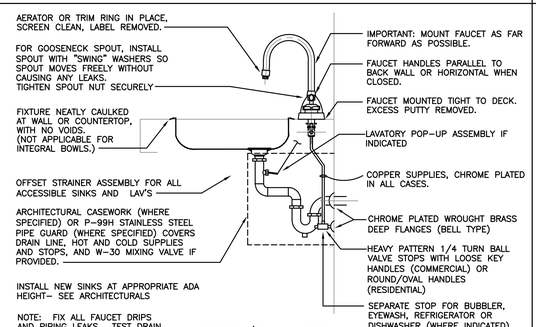
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AP	ACCESS PANEL	NO	NORMALLY OPEN
BDD	BACK DRAFT DAMPER	NP	NOT POTABLE
BFF	BELOW FINISHED FLOOR	OAT	OUTDOOR AIR TEMPERATURE SENSOR
CC	COOLING COIL	PC	PLUMBING CONTRACTOR
CDV	COMBINATION DRAIN & VENT	PRV	PRESSURE REDUCING VALVE
CO	CLEAN OUT	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
DHW	DOMESTIC HOT WATER		
DG	DOOR GRILLE	S	SMOKE DAMPER
DCVA	DOUBLE CHECK VALVE ASSEMBLY	SOV	SHUT OFF VALVE
EC	ELECTRICAL CONTRACTOR	TDV	TRIPLE DUTY VALVE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
HC	HEATING COIL	U/C	UNDERCUT DOOR (BY GC)
MC	MECHANICAL CONTRACTOR	V	VENT
MD	MOTORIZED DAMPER	VTR	VENT THROUGH ROOF
NIC	NOT IN CONTRACT		

	EXISTING PIPING (TYP. FOR ALL)		PIPE DROPS DOWN
	PIPES TO BE REMOVED		PIPE GOES UP
	CW–COLD WATER PIPING (DOMESTIC)		PRESSURE REDUCING VALVE
	HW–HOT WATER PIPING (DOMESTIC)		PRESSURE GAUGE (PG) AND COCK
	HWR–HOT WATER RETURN PIPING (DOMESTIC)		STRAINER
			T&P RELIEF VALVE
	SAN–SANITARY SEWER		THERMOMETER & DDC SENSOR (BOTH REQUIRED), TWO SEPARATE WELLS
	VENT PIPING		
ST	STORM DRAIN PIPING		UNION
CD	CONDENSATE DRAIN PIPING	20x12	POSITIVE PRESSURE DUCTWORK (1ST NO. IS TOP)
HWS	HOT WATER SUPPLY PIPING (HYDRONIC)		NEGATIVE PRESSURE DUCTWORK
HWR	HOT WATER RETURN PIPING (HYDRONIC)		GRADUAL DUCT TRANSITION
NP	NOT POTABLE WATER PIPING	R	GRADUAL DUCT RISE
	CONNECT TO EXISTING		BDD–BACKDRAFT DAMPER
	AIR VENT	S	SUPPLY DIFFUSER BLACKED OUT QUADRANTS HAVE NO FLOW
	BALANCING VALVE	R	RETURN GRILLE
	SHUT–OFF VALVE		FIRE DAMPER AND ACCESS DOOR
	CHECK VALVE		MD–MOTORIZED DAMPER
	CIRCULATING PUMP		VD–VOLUME DAMPER
	CLEANOUT, EXPOSED		DDC TEMPERATURE SENSOR
	COMBINATION VALVE, STRAIN & DRAIN	T	THERMOSTAT OR TEMPERATURE SENSOR
	CONTROL VALVE	C	CO2 SENSOR
	FLOOR CLEANOUT OR CLEANOUT TO GRADE– D–1	S	SWITCH
	FLOOR DRAIN WITH FUNNEL		
	FLOOR DRAIN		
	FLOOR SINK		
	HOSE BIB/WALL HYDRANT/SILL COCK/SILL FAUCET		



CONDENSATE DISCHARGE TO SERVICE SINK

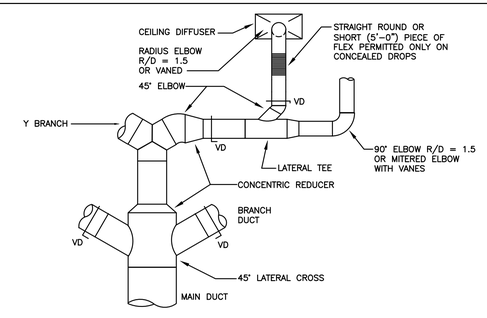
435–01



LAVATORY/SINK DETAIL

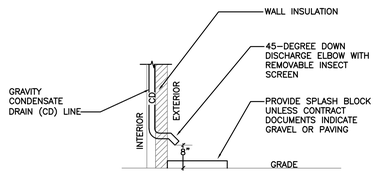
WITH PIPE GUARD
DROP IN SHOWN. UNDER–COUNTER AND WALL HUNG SIMILAR

440–32



TYPICAL SUPPLY OR RETURN DUCT, ROUND

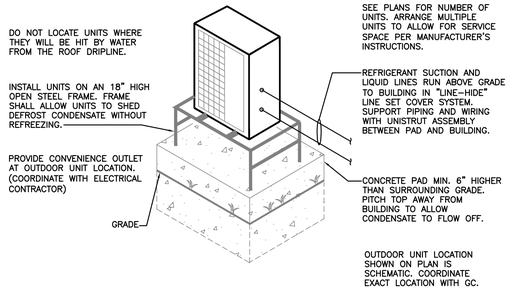
891–02



CONDENSATE PIPING TO GRADE DETAIL

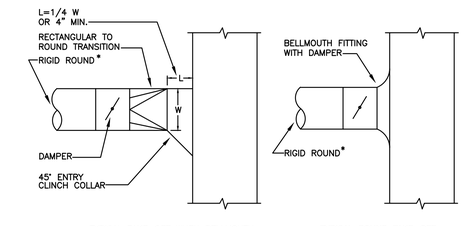
NOT TO SCALE

435–08



AIR–COOLED OUTDOOR UNIT – NEAR BUILDING

683–39



TYPICAL TAKE–OFF WHEN BELLMOUTH FITTING WILL NOT FIT HEIGHT OF RECTANGULAR DUCT.

TYPICAL ROUND TAKE–OFF

* FLEX PERMITTED (5'–0" MAX.) WHEN SUPPORTED TO AVOID SAGGING.

ROUND DUCTWORK TAKEOFFS

891–03

NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

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PROJECT:
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DRAWING TITLE:
PLUMBING AND MECHANICAL DETAILS & LEGEND

ISSUED: Bid and Construction Set
JOB NO: 1312
DRAWN BY: mb
CHECKED BY: RES
DATE: December 11, 2015

REVISION	DATE

SHEET NUMBER:
M400

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POWER SYMBOLS

- CIRCUIT BREAKER
- GROUND CONNECTION
- LP1-2 — HOME RUN TO PANEL (CKT. NO. AS SHOWN)
- TRANSFORMER
- CT — CURRENT TRANSFORMER
- PT — POTENTIAL TRANSFORMER
- 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT SINGLE RECEPTACLE
- 20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF
- XX — OTHER POWER RECEPTACLE NEMA DESIGNATION AS NOTED
- HP — MOTOR
- J — JUNCTION BOX
- P — POWER POLE CONNECTION TO MODULAR FURNITURE WHIP
- T — TRANSFORMER
- CB XX — CIRCUIT BREAKER SIZED AS NOTED
- PANELBOARD NORMAL POWER
- PANELBOARD EMERGENCY POWER
- BD — BUS DUCT AMPERE RATING AS NOTED
- FLOOR RECEPTACLE CONDUIT INSTALLED IN SLAB
- 200/3 — UNFUSED SAFETY SWITCH, RATING AS NOTED
  - POLES
  - AMPERES
- 3R F XXAF XXAT — FUSED SAFETY SWITCH, RATING AS NOTED
  - FRAMESIZE
  - FUSE/TRIP
  - NEMA RATING
- MAGNETIC MOTOR STARTER, RATING AS NOTED
- M — MANUAL TOGGLE OPERATED MOTOR STARTER
- ELECTRIC ACTUATED VALVE
- M — MOTOR CONTACTOR
- CONTACT NORMALLY OPEN
- CONTACT NORMALLY CLOSED
- SELECTOR SWITCH
- TEMPERATURE SWITCH
- R — PILOT LIGHT

LIGHTING SYMBOLS

- X — LIGHT FIXTURE
- X — LIGHT FIXTURE ON GENERATOR
- X — PENDANT MOUNTED LIGHT FIXTURE
- X — PENDANT MOUNTED LIGHT FIXTURE
- X — STRIP/WRAP LIGHT FIXTURE
- X — EXTERIOR WALL-PACK
- X — ROUND RECESSED CEILING MOUNTED FIXTURE
- X — SURFACE MOUNTED FIXTURE
- X — WALL MOUNTED LIGHTING FIXTURE
- X — WALL SCONCE
- X — TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY)
- EMERGENCY LED EXIT SIGN
- COMBINATION EMERGENCY EXIT SIGN & LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
- EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
- REMOTE EMERGENCY LIGHTING LAMP HEAD
- SP a — LIGHT SWITCH
  - DENOTES FIXTURE SWITCHED
  - P = PILOT LIGHT (WHERE NOTED)
  - 3 = 3-WAY (WHERE NOTED)
  - 4 = 4-WAY (WHERE NOTED)
- X — ULTRASONIC/INFRARED OCCUPANCY SENSOR
  - C = CEILING MOUNTED
  - W = WALL MOUNTED 48" AFF (TO TOP)
- TC — TIME CLOCK
- LC — LIGHTING CONTACTOR
- PC — PHOTOCELL

FIRE ALARM SYMBOLS

- F — PULL STATION
- H — FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
- XX — STROBE UNIT XX= CANDELA
- 15/120V — NON-SYSTEM STROBE UNIT
- H — MINI HORN UNIT
- S — SMOKE DETECTOR
- H 135 OR 200 — FIXED TEMP HEAT DETECTOR (135F OR 200F)
- FACP — FIRE ALARM CONTROL PANEL
- ANN — ANNUNCIATOR
- MB — MASTER BOX
- DD — DIGITAL COMMUNICATOR
- S D — DUCT SMOKE DETECTOR
- T — REMOTE TEST STATION
- TS — SPRINKLER TAMPER SWITCH
- FS — SPRINKLER FLOW SWITCH
- PS — SPRINKLER PRESSURE SWITCH
- MM — MONITOR MODULE
- CM — CONTROL MODULE
- S 120 — NON-SYSTEM SMOKE DETECTOR STR = DENOTES INTEGRAL STROBE FOR H/C UNITS
- L R — RED MASTER BOX LIGHT
- KB — KNOX BOX, FBO
- EXT — HOOD EXT SYSTEM
- DH — DOOR HOLDER
- FCPS — SIGNAL POWER EXTENDER
- FE — FIRE EXTINGUISHER MONITOR

SYSTEMS SYMBOLS

- TELEPHONE SYSTEM WALL JACK
- COMBINATION VOICE/DATA SYSTEM OUTLET
- COMBINATION VOICE/DATA SYSTEM OUTLET IN FLOOR BOX. FURNISH 1" CONDUIT IN SLAB
- TV — CATV JACK
- DS — SECURITY SYSTEM DOOR SWITCH
- EL — ELECTRIC DOOR LOCK SET
- KP — SECURITY SYSTEM CARD ACCESS PAD
- SP — INTERCOM SYSTEM SPEAKER
- INT — INTERCOM MASTER STATION
- CABLE TRAY
- PUSH BUTTON
- DB — DOOR BELL

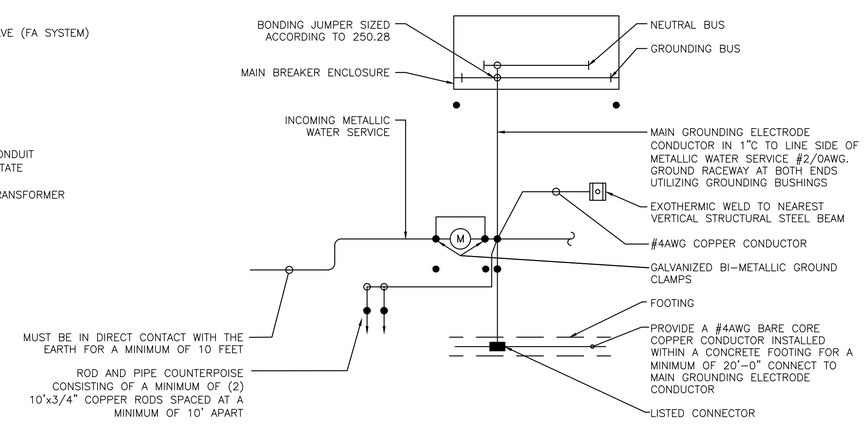
ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
EG	EQUIPMENT GROUND
EH	ELECTRICALLY HELD
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
EX	EXTERIOR
FA	FIRE ALARM
FC	FOOT-CANDLE
FDR	FEEDER
FLUOR	FLUORESCENT
FS	FLOW SWITCH (FA SYSTEM)
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	HAND HOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILO VOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LSW	LIGHT SWITCH
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MH	METAL HALIDE
EMH	ELECTRICAL MANHOLE
MLO	MAIN LUGS ONLY
MO	MECHANICALLY OPERATED
MOD	MOTOR OPERATED DAMPER
MTS	MANUAL TRANSFER SWITCH
MV	MERCURY VAPOR
MVA	MEGAVOLT-AMPERE
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
OH	OVERHEAD
OL	OVER LOAD
OOA	ON-OFF-AUTOMATIC
OSY	OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
P	POLE
PB	PUSH BUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RGSC	RIGID GALVANIZED STEEL CONDUIT
RVSS	REDUCED VOLTAGE SOLID STATE
RSC	RIGID STEEL CONDUIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
S	SIGNAL
SEC	SECONDARY
SHLD	SHIELDED CABLE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
T	TELEPHONE
TR	TRANSFORMER
TBD	TO BE DETERMINED
TD	TELEDIALER
TDR	TIME DELAY RELAY
TEL	TELEPHONE
TM	TELEMETRY
UG	UNDERGROUND
UT	UTILITY
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT HOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
XLP	CROSS LINKED POLYETHYLENE
XP	EXPLOSION PROOF

GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
3. UNLESS OTHERWISE NOTED, CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18 INCHES AFF AND LIGHTING TOGGLE SWITCHES 48 INCHES AFF.
4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT METERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
5. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
6. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
7. DEVICE COVERPLATES SHALL BE THERMOPLASTIC NYLON TYPE WITH IVORY FINISH IN ALL FINISHED SPACES. MECHANICAL ROOMS, ELECTRICAL ROOM, AND UTILITY ROOMS SHALL BE FURNISHED WITH BRUSHED STAINLESS STEEL COVERPLATES.
8. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12 GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
9. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.

NOTE: PROVIDE A GROUNDING ELECTRODE SYSTEM AS DETAILED ABOVE UNTIL A MAXIMUM RESISTANCE LEVEL OF 25 OHMS TO GROUND IS ATTAINED. PERFORM A GROUND RESISTANCE TEST AND PROVIDE A COPY OF THE TESTING REPORT TO THE ENGINEER.



1 ELECTRICAL GROUNDING DETAIL
SCALE: NOT TO SCALE

BID & CONSTRUCTION SET
12/11/15

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NOTE: IT IS THE GCS, CMS AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ELECTRICAL LEGEND, SYMBOLS, & NOTES

ISSUED: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: JMD
CHECKED BY: TDM
DATE: 12/11/15

REVISION	DATE

SHEET NUMBER:
E0.0

NOTES:

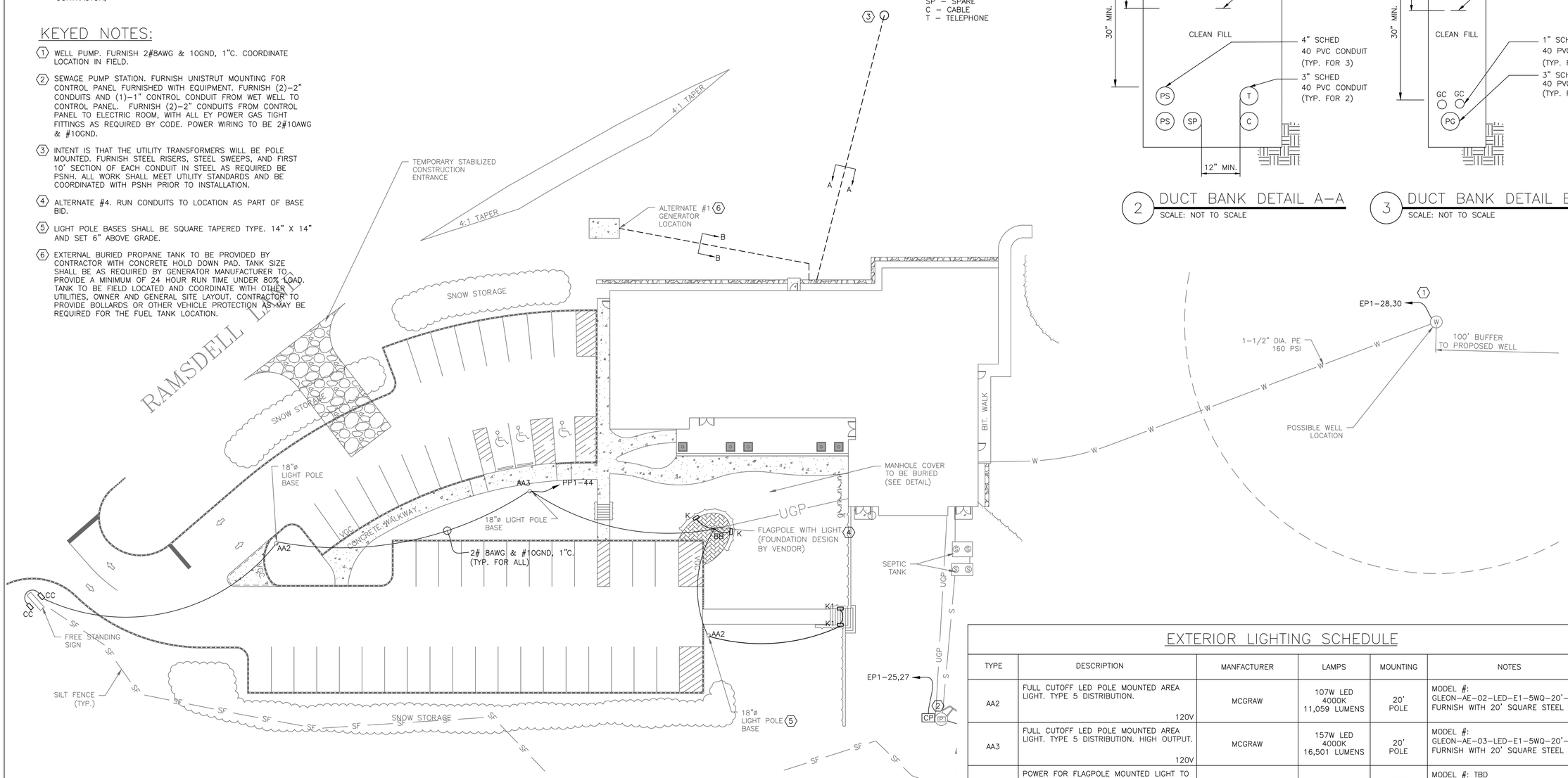
1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. COORDINATE POLE BASE BOLT PATTERNS WITH SITE CONTRACTOR,

KEYED NOTES:

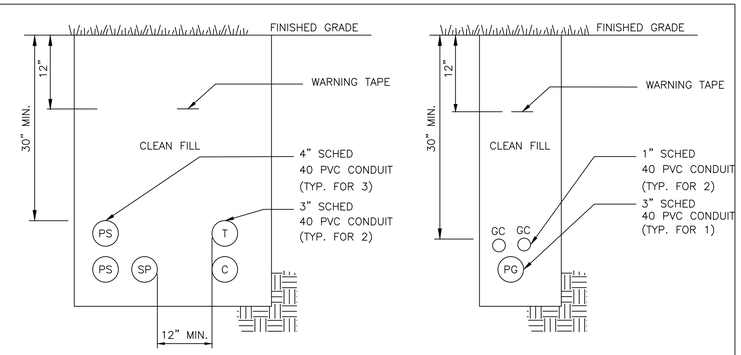
1. WELL PUMP. FURNISH 2#8AWG & 10GND, 1"C. COORDINATE LOCATION IN FIELD.
2. SEWAGE PUMP STATION. FURNISH UNISTRUT MOUNTING FOR CONTROL PANEL FURNISHED WITH EQUIPMENT. FURNISH (2)–2" CONDUITS AND (1)–1" CONTROL CONDUIT FROM WET WELL TO CONTROL PANEL. FURNISH (2)–2" CONDUITS FROM CONTROL PANEL TO ELECTRIC ROOM, WITH ALL EY POWER GAS TIGHT FITTINGS AS REQUIRED BY CODE. POWER WIRING TO BE 2#10AWG & #10GND.
3. INTENT IS THAT THE UTILITY TRANSFORMERS WILL BE POLE MOUNTED. FURNISH STEEL RISERS, STEEL SWEEPS, AND FIRST 10' SECTION OF EACH CONDUIT IN STEEL AS REQUIRED BE PSNH. ALL WORK SHALL MEET UTILITY STANDARDS AND BE COORDINATED WITH PSNH PRIOR TO INSTALLATION.
4. ALTERNATE #4. RUN CONDUITS TO LOCATION AS PART OF BASE BID.
5. LIGHT POLE BASES SHALL BE SQUARE TAPERED TYPE. 14" X 14" AND SET 6" ABOVE GRADE.
6. EXTERNAL BURIED PROPANE TANK TO BE PROVIDED BY CONTRACTOR WITH CONCRETE HOLD DOWN PAD. TANK SIZE SHALL BE AS REQUIRED BY GENERATOR MANUFACTURER TO PROVIDE A MINIMUM OF 24 HOUR RUN TIME UNDER 80% LOAD. TANK TO BE FIELD LOCATED AND COORDINATE WITH OTHER UTILITIES, OWNER AND GENERAL SITE LAYOUT. CONTRACTOR TO PROVIDE BOLLARDS OR OTHER VEHICLE PROTECTION AS MAY BE REQUIRED FOR THE FUEL TANK LOCATION.

DUCT BANK LEGEND:

GC – GENERATOR CONTROLS
PG – POWER (GENERATOR)
PS – POWER (SECONDARY)
SP – SPARE
C – CABLE
T – TELEPHONE



1 ELECTRICAL SITE PLAN
SCALE: 1"=20'



2 DUCT BANK DETAIL A–A
SCALE: NOT TO SCALE

3 DUCT BANK DETAIL B–B
SCALE: NOT TO SCALE

EXTERIOR LIGHTING SCHEDULE

TYPE	DESCRIPTION	MANFACTURER	LAMPS	MOUNTING	NOTES
AA2	FULL CUTOFF LED POLE MOUNTED AREA LIGHT. TYPE 5 DISTRIBUTION. 120V	MCGRAW	107W LED 4000K 11,059 LUMENS	20' POLE	MODEL #: GLEON–AE–02–LED–E1–5WQ–20'–AFG FURNISH WITH 20' SQUARE STEEL POLE
AA3	FULL CUTOFF LED POLE MOUNTED AREA LIGHT. TYPE 5 DISTRIBUTION. HIGH OUTPUT. 120V	MCGRAW	157W LED 4000K 16,501 LUMENS	20' POLE	MODEL #: GLEON–AE–03–LED–E1–5WQ–20'–AFG FURNISH WITH 20' SQUARE STEEL POLE
BB	POWER FOR FLAGPOLE MOUNTED LIGHT TO BE FURNISHED WITH FLAGPOLE. 120V	TBD	TBD	TOP OF FLAGPOLE	MODEL #: TBD
CC	WALL WASHER FIXTURE FOR SIGN LIGHT. PVD SATIN FINISH 120V	SPJ LIGHTING	4W LED 4000K 250 LUMENS	BASE MOUNTED	MODEL #: SPJ–LSL–12–PVDS–4W–250–4000K–120
K	FLAGPOLE AREA LIGHT TO BE MOUNTED IN UNIT BLOCK RETAINING WALL. 120V	BEGA	10.1W LED 4000K	WALL RECESSED	MODEL #: 2038LED–K4
K1	STAIR LIGHT TO BE SET INTO UNIT BLOCK RETAINING WALL (1 PER EACH SIDE OF STAIRWELL). 120V	BEGA	8.4W LED 4000K	WALL RECESSED	MODEL #: 3065LED–K4

4 EXTERIOR LIGHTING SCHEDULE

BID & CONSTRUCTION SET
12/11/15

SWIFTCURRENT
Engineering Services
10 Forest Falls Dr. Unit 4b
Yarmouth, ME 04096
Tel: (207) 847–9280

smp ARCHITECTURE
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STATE OF NEW HAMPSHIRE
TIMOTHY D. MATTHEWS
No. 9742
LICENSED
PROFESSIONAL ENGINEER

NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ELECTRICAL POWER & SYSTEMS - FIRST FLOOR PLAN & LOWER LEVEL

ISSUED: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: JMD
CHECKED BY: TDM
DATE: 12/11/15

REVISION	DATE

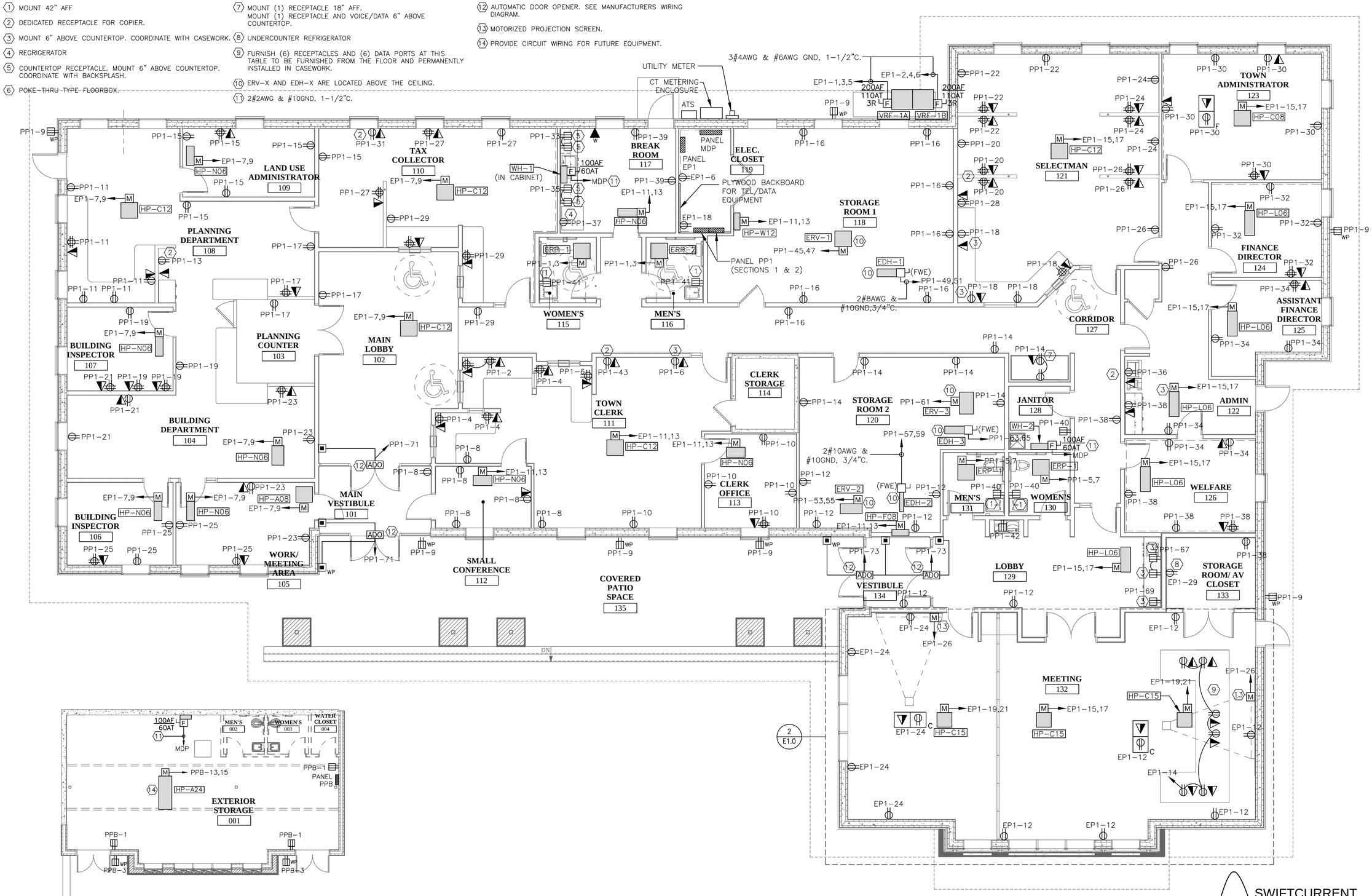
SHEET NUMBER:
ES1.0

NOTES:

1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1. MOUNT 42" AFF
2. DEDICATED RECEPTACLE FOR COPIER.
3. MOUNT 6" ABOVE COUNTERTOP. COORDINATE WITH CASEWORK.
4. REGRIGERATOR
5. COUNTERTOP RECEPTACLE. MOUNT 6" ABOVE COUNTERTOP. COORDINATE WITH BACKSPLASH.
6. POKE-THRU TYPE FLOORBOX.
7. MOUNT (1) RECEPTACLE 18" AFF. MOUNT (1) RECEPTACLE AND VOICE/DATA 6" ABOVE COUNTERTOP.
8. UNDERCOUNTER REFRIGERATOR
9. FURNISH (6) RECEPTACLES AND (6) DATA PORTS AT THIS TABLE TO BE FURNISHED FROM THE FLOOR AND PERMANENTLY INSTALLED IN CASEWORK.
10. ERV-X AND EDH-X ARE LOCATED ABOVE THE CEILING.
11. 2#2AWG & #10GND, 1-1/2"C.
12. AUTOMATIC DOOR OPENER. SEE MANUFACTURERS WIRING DIAGRAM.
13. MOTORIZED PROJECTION SCREEN.
14. PROVIDE CIRCUIT WIRING FOR FUTURE EQUIPMENT.



2 ELECTRICAL POWER & SYSTEMS PLAN – LOWER LEVEL
SCALE: 1/8"=1'

1 ELECTRICAL POWER & SYSTEMS PLAN – FIRST FLOOR
SCALE: 3/16"=1'

BID & CONSTRUCTION SET
12/11/15

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ELECTRICAL POWER & SYSTEMS - FIRST FLOOR PLAN & LOWER LEVEL

ISSUED:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	JMD
CHECKED BY:	TDM
DATE:	12/11/15

REVISION	DATE

SHEET NUMBER:
E1.0

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
ERP-1,2	0.3			1	15	A	20	2	0.8			TOWN CLERK RECEPTS
		0.3		3		B	20	4		0.8		TOWN CLERK RECEPTS
ERP-3,4			0.3	5	15	C	20	6			1.1	TOWN CLERK RECEPTS
	0.3			7		A	20	8	1.1			SMALL CONF. RECEPTS
EXTERIOR RECEPTS		1.1		9	20	B	20	10		1.1		CLERK OFFICE RECEPTS
PLANNING RECEPTS			1.1	11	20	C	20	12			1.1	STORAGE 2 RECEPTS
PLANNING COPIER	1.5			13	20	A	20	14	1.3			STORAGE 2 RECEPTS
LAND USE RECEPTS		1.3		15	20	B	20	16		1.3		STORAGE 1 RECEPTS
PLANNING RECEPTS			0.9	17	20	C	20	18			0.9	SELECTMEN RECEPTS
BLDG INSPECTOR RECEPTS	1.1			19	20	A	20	20	0.9			SELECTMEN RECEPTS
BLDG INSPECTOR RECEPTS		0.8		21	20	B	20	22		1.1		SELECTMEN RECEPTS
BLDG DEPT RECEPTS			0.9	23	20	C	20	24			1.1	SELECTMEN RECEPTS
BLDG DEPT RECEPTS	1.1			25	20	A	20	26	1.1			SELECTMEN RECEPTS
TAX COLLECTOR RECEPTS		0.9		27	20	B	20	28		1.5		SELECTMEN COPIER
TAX COLLECTOR RECEPTS			1.1	29	20	C	20	30			1.3	TOWN ADMIN RECEPTS
TAX COLLECTOR COPIER	1.5			31	20	A	20	32	0.9			FINANCE DIRECTOR RECEPTS
BREAK RM COUNTER		0.4		33	20	B	20	34		1.1		AST. FINANCE DIRECTOR RECEPTS
BREAK RM COUNTER			0.4	35	20	C	20	36			1.5	FINANCE COPIER
BREAK RM REFRIGERATOR	0.5			37	20	A	20	38	1.1			WELFARE RECEPTS
BREAK RM RECEPTS		0.4		39	20	B	20	40		0.6		TOILET GFI RECEPTS
TOILET GFI RECEPTS			0.4	41	20	C	20	42			0.5	WATER COOLER
SUBTOTAL	6.3	5.2	5.1						6.2	7.4	7.5	SUBTOTAL

VOLTAGE: 208Y/120V	PHASE: 3	POLES: 4	TOTAL KVA A-PHASE	12.8	PANEL: PP1 (SECTION 1)
MAIN LUGS ONLY		BUS AMPS: 200A	TOTAL KVA B-PHASE	12.9	
MOUNTING: SURFACE			TOTAL KVA C-PHASE	12.6	LOCATION: ELECTRIC ROOM
SHORT CIRCUIT RATING: 18 KAIC			TOTAL KVA	38.3	

NOTES: FURNISH WITH FEED THROUGH LUGS FOR PANEL PP2 SECTION 2.
FURNISH WITH INTEGRAL TVSS OR FURNISH REQUIRED CIRCUIT BREAKER AND REMOTE MOUNT EQUIPMENT ADJACENT TO PANEL

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
TOWN CLERK COPIER	1.5			43	20	A	20	44	0.6			EXTERIOR LTS.
ERV-1		1.2		45	15	B	20	46		1.3		PLANNING LTS.
			1.2	47		C	20	48			1.0	TAX COLL./BREAK/CORR/LTS
EDH-1	3.8			49	40	A	20	50	0.8			TOWN CLERK LTS.
		3.8		51		B	20	52		1.1		SELECTMEN LTS.
ERV-2			1.2	53	15	C	20	54			0.8	ADMIN/DIRECTOR LTS.
	1.2			55		A	20	56	0.8			CONF. LOBBY LTS.
EDH-2		2.5		57	30	B	20	58		0.3		EXTERIOR BLDG. LTS.
			2.5	59		C	20	60			*	SPARE
ERV-3	0.4			61	20	A	20	62	*			SPARE
EDH-3		0.8		63	20	B	20	64		*		SPARE
			0.8	65		C	20	66			*	SPARE
KITCHENETTE RECEPTACLE	0.2			67	20	A	20	68	*			SPARE
KITCHENETTE RECEPTACLE		0.4		69	20	B	20	70		*		SPARE
AUTOMATIC DOOR OPENER			1.0	71	20	C	20	72			*	SPARE
AUTOMATIC DOOR OPENER	1.0			73	20	A	20	74	*			SPARE
SPARE		*		75	20	B	20	76		*		SPARE
SPARE			*	77	20	C	20	78			*	SPARE
SPARE	*			79	20	A	20	80	*			SPARE
SPARE		*		81	20	B	20	82		*		SPARE
SPARE			*	83	20	C	20	84			*	SPARE
SUBTOTAL	8.1	8.7	6.7						2.2	2.7	1.8	SUBTOTAL

VOLTAGE: 208Y/120V	PHASE: 3	POLES: 4	TOTAL KVA A-PHASE	10.3	PANEL: PP1 (SECTION 2)
MAIN LUGS ONLY		BUS AMPS: 200A	TOTAL KVA B-PHASE	11.4	
MOUNTING: SURFAGE			TOTAL KVA C-PHASE	8.5	LOCATION: ELECTRIC ROOM
SHORT CIRCUIT RATING: 18 KAIC			TOTAL KVA	30.2	

NOTES:

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
VRF-1A	8.9			1	110	A	110	2	8.9			VRF-13
		8.9		3		B		4		8.9		
			8.9	5		C		6			8.9	
HP-102,104,105,106,107,108, 109,110	0.3			7	15	A	20	8	0.4			CORRIDOR LTS
		0.3		9		B	20	10		1.0		MEETING RM LTS
HP-111,112,113,115,116,117, 118,119,1120			0.3	11	15	C	20	12			1.1	MEETING RM RECEPTS
	0.3			13		A	20	14	1.1			MEETING RM RECEPTS
HP-121,122,123,124,125,126, 129, HP-132		0.4		15	15	B	20	16		0.2		PHONE RECEPTS
			0.4	17		C	20	18			0.2	PHONE RECEPTS
HP-132A,132C,134,001	0.2			19	15	A	20	20	0.4			SECURITY SYSTEM
		0.2		21		B	20	22		0.4		TELEPHONE SYSTEM
MECHANICAL CONTROLS			1.0	23	20	C	20	24			0.9	MEETING RM RECEPTS
SEWAGE PUMP ((2)1/2HP)	1.3			25	20	A	20	26	0.2			SCREEN OPERATORS
		1.3		27		B	20	28		0.6		WELL PUMP (1/2HP)
A/V EQUIPMENT			0.2	29	20	C		30			0.6	
FACP	1.0			31	20	A	20	32	*			SPARE
SPARE		*		33	20	B	20	34		*		SPARE
SPARE			*	35	20	C	20	36			*	SPARE
SPARE	*			37	20	A	20	38	*			SPARE
SPARE		*		39	20	B	20	40		*		SPARE
SPARE			*	41	20	C	20	42			*	SPARE
SUBTOTAL	12.0	11.1	10.8						11.0	11.1	11.7	SUBTOTAL

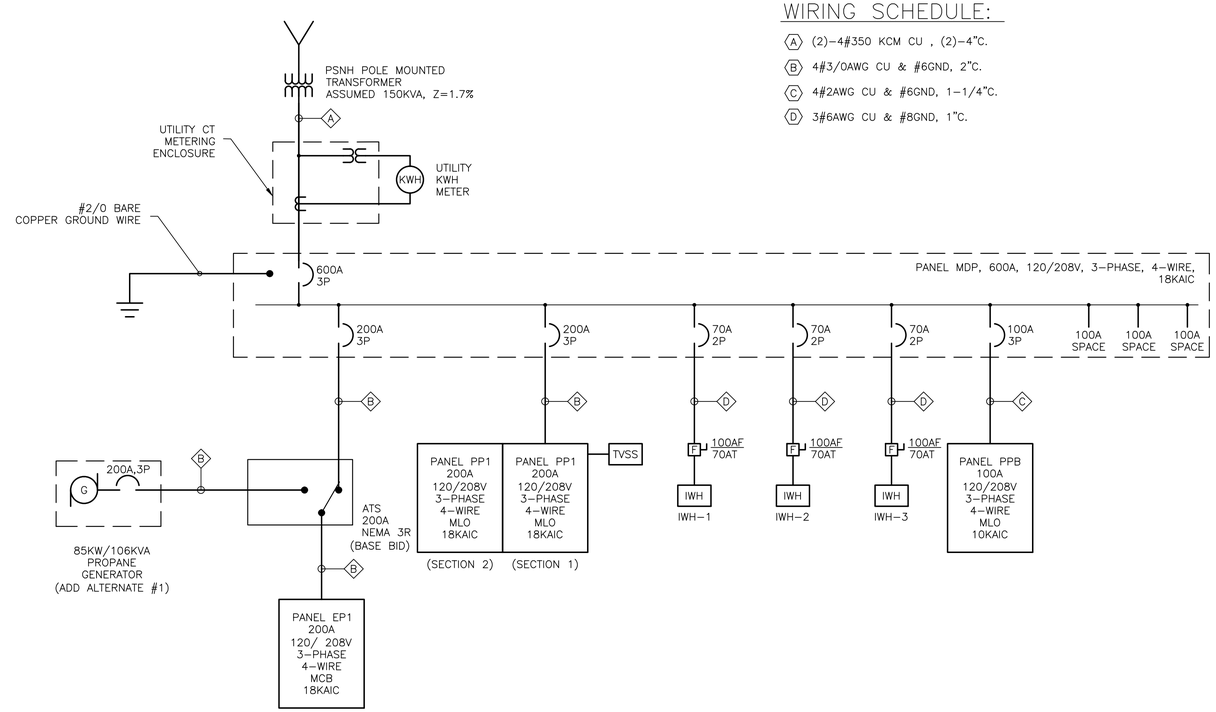
VOLTAGE: 208Y/120V	PHASE: 3	POLES: 4	TOTAL KVA A-PHASE	23.0	PANEL: EP1
MAIN BREAKER: 200A		BUS AMPS: 200A	TOTAL KVA B-PHASE	22.2	
MOUNTING: SURFACE			TOTAL KVA C-PHASE	22.5	LOCATION: ELECTRIC ROOM
SHORT CIRCUIT RATING: 18 KAIC			TOTAL KVA	67.7	

NOTES:

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
BASEMENT RECEPTS.	0.6			1	20	A	20	2	0.5			BASEMENT LTS.
EXTERIOR BASEMENT RECEPTS.		0.4		3	20	B	20	4		0.2		BASEMENT EXTERIOR LTS.
SPRINKLER RECEPT.			1.2	5	20	C	20	6			*	SPARE
EDH-4 (FUTURE)	0.8			7	15	A	20	8	*			SPARE
		0.8		9		B	20	10		*		SPARE
ERV-4 (FUTURE)			0.4	11	20	C	20	12			*	SPARE
HP-A24 (FUTURE)	0.1			13	15	A	20	14	*			SPARE
		0.1		15		B	20	16		*		SPARE
SPARE			*	17	20	C	20	18			*	SPARE
SPARE	*			19	20	A	20	20	*			SPARE
SPARE		*		21	20	B	20	22		*		SPARE
SPARE			*	23	20	C	20	24			*	SPARE
SPARE	*			25	20	A	20	26	*			SPARE
SPARE		*		27	20	B	20	28		*		SPARE
SPARE			*	29	20	C	20	30			*	SPARE
SUBTOTAL	1.5	1.3	1.6						0.5	0.2	###	SUBTOTAL

VOLTAGE: 208Y/120V	PHASE: 3	POLES: 4	TOTAL KVA A-PHASE	2.0	PANEL: PPB
MAIN LUGS ONLY		BUS AMPS: 100A	TOTAL KVA B-PHASE	1.5	
MOUNTING: SURFACE			TOTAL KVA C-PHASE	1.6	LOCATION: BASEMENT
SHORT CIRCUIT RATING: 10 KAIC			TOTAL KVA	5.1	

NOTES:



WIRING SCHEDULE:

- (A) (2)-4#350 KCM CU , (2)-4"C.
- (B) 4#3/0AWG CU & #6GND, 2"C.
- (C) 4#2AWG CU & #6GND, 1-1/4"C.
- (D) 3#6AWG CU & #8GND, 1"C.

1 ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

BID & CONSTRUCTION SET
12/11/15

SWIFTCURRENT
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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES & ONE-LINE DIAGRAM

ISSUED: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: JMD
CHECKED BY: TDM
DATE: 12/11/15

REVISION	DATE

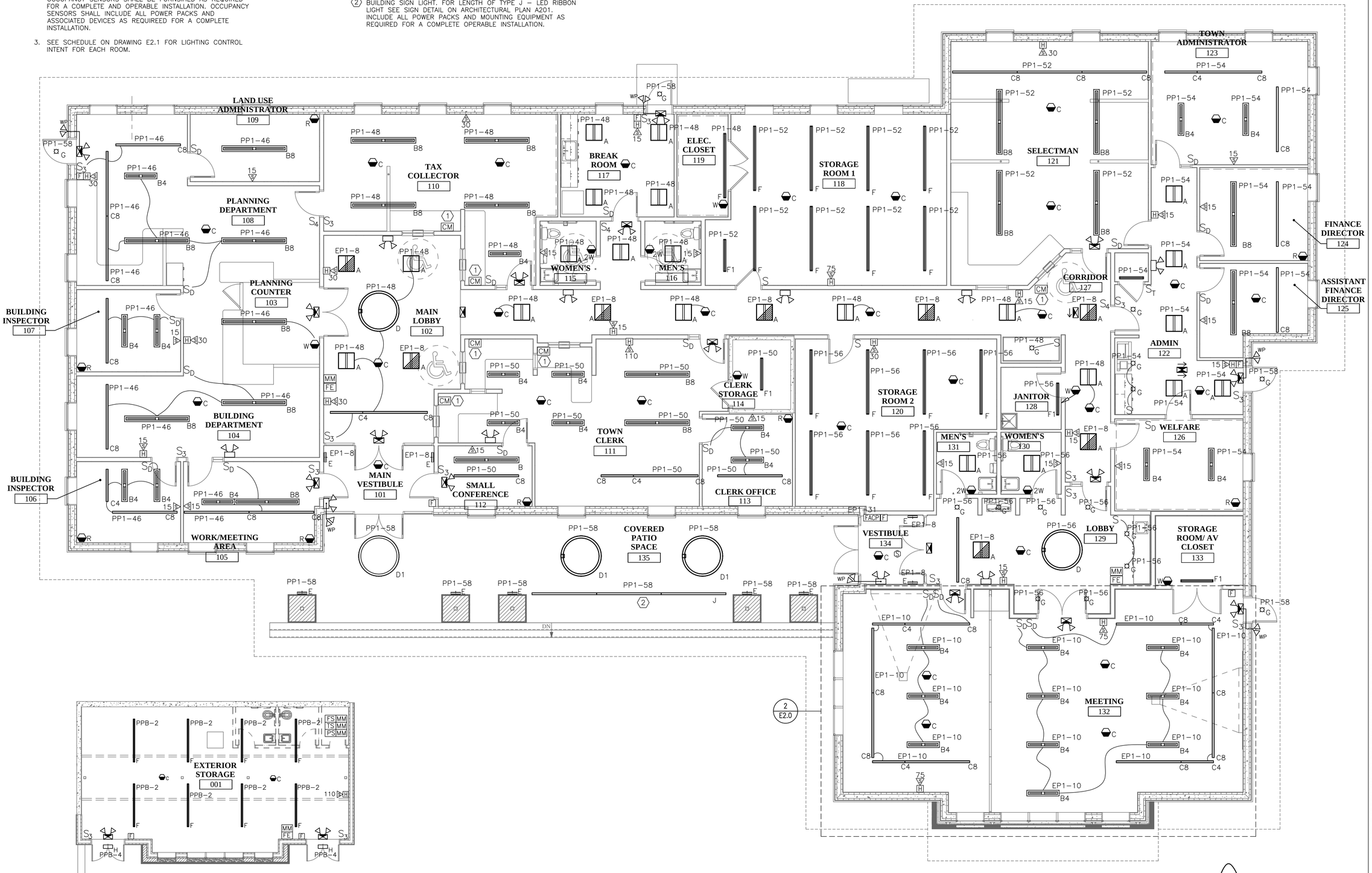
SHEET NUMBER:
E1.1

NOTES:

1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL LOW VOLTAGE WIRING FOR DIMMING CONTROLS AND OCCUPANCY SENSORS SHALL BE FURNSIHED AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. OCCUPANCY SENSORS SHALL INCLUDE ALL POWER PACKS AND ASSOCIATED DEVICES AS REQUIREED FOR A COMPLETE INSTALLATION.
3. SEE SCHEDULE ON DRAWING E2.1 FOR LIGHTING CONTROL INTENT FOR EACH ROOM.

KEYED NOTES:

1. FIRE SHUTTER FOR SERVICE WINDOW. TO CLOSE UPON FIRE ALARM. FURNISH CONTROL MODULE AND WIRING TO FACP.
2. BUILDING SIGN LIGHT. FOR LENGTH OF TYPE J – LED RIBBON LIGHT SEE SIGN DETAIL ON ARCHITECTURAL PLAN A201. INCLUDE ALL POWER PACKS AND MOUNTING EQUIPMENT AS REQUIRED FOR A COMPLETE OPERABLE INSTALLATION.



2 ELECTRICAL LIGHTING & FIRE ALARM PLAN – LOWER LEVEL
SCALE: 1/8"=1'

1 ELECTRICAL LIGHTING & FIRE ALARM PLAN – FIRST FLOOR
SCALE: 3/16"=1'

BID & CONSTRUCTION SET
12/11/15

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PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ELECTRICAL LIGHTING & FIRE ALARM PLAN - FIRST FLOOR & LOWER LEVEL

ISSUED:	BID & CONSTRUCTION SET
JOB NO:	1312
DRAWN BY:	JMD
CHECKED BY:	TDM
DATE:	12/11/15

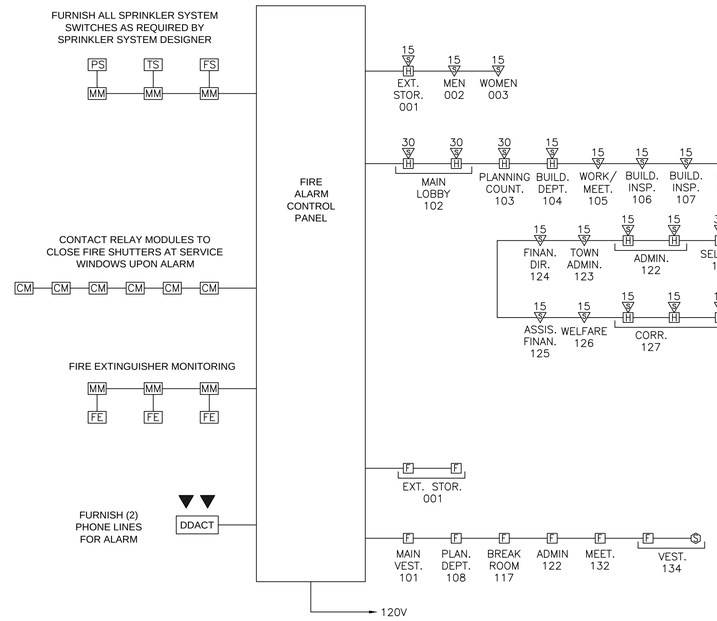
REVISION	DATE

SHEET NUMBER:
E2.0

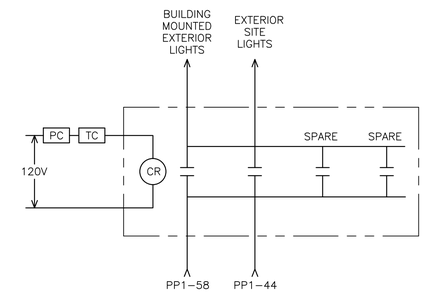
LIGHTING SCHEDULE

TYPE	DESCRIPTION	MANFACTURER	LAMPS	MOUNTING	NOTES
A	2'x2' LED TROFFER WITH 0–10V DIMMING 120V	METALUX	34W LED 3500K 3400 LUMENS	CEILING GRID	MODEL #: 22EN–LD1–34–UNV–L835–CD1–U
B4	4' SUSPENDED LED PENDANT WITH FROSTED LENS	CORELITE	39W LED 3500K 3858 LUMENS	CEILING SUSPENDED	MODEL #: J2–WL–2L35–1D–UNV–AC48–T1–4
B8	8' SUSPENDED LED PENDANT WITH FROSTED LENS 120V	CORELITE	78W LED 3500K 7716 LUMENS	CEILING SUSPENDED	MODEL #: J2–WL–2L35–1D–UNV–AC48–T1–8
C4	4' LED STRIPLIGHT 120V	METALUX	28.3W LED 4000K 3200 LUMENS	CEILING SURFACE	MODEL #: 4SNLED–LD4–32SL–UNV–L835–CD1–U
C8	8' LED STRIPLIGHT	METALUX	28.3W LED 4000K 3200 LUMENS EACH 4' SECTION	CEILING SURFACE	MODEL #: 8SNLED–LD4–80SL–UNV–L835–CD1–U
D	48" DIAMETER DECORATIVE LED PENDANT INTERIOR – CABLE MOUNT 120V	DELRAY LIGHTING	24W LED 3500K	CEILING SUSPENDED	MODEL #: 6714–W–W35–C2RD–C
D1	48" DIAMETER DECORATIVE LED PENDANT EXTERIOR – STEM MOUNT. BLACK FINISH. 120V	DELRAY LIGHTING	24W LED 4000K	CEILING STEM	MODEL #: 6714–K–W40–C2RD–S
E	WALL MOUNTED SEMI–RECESSED LED FIXTURE. SEMIGLOSS WHITE FINISH. 277V	ELLIPTIPAR	32W LED 3500K 1823 LUMENS	WALL MOUNT	MODEL #: S223–K014–T–02–8–00–0–35–00
E1	WALL MOUNTED SEMI–RECESSED LED FIXTURE. BLACK FINISH. 277V	ELLIPTIPAR	32W LED 3500K 1823 LUMENS	WALL RECESSED	MODEL #: S223–M014–T–99–8–00–0–35–00
F	8' LED LENSED STRIPLIGHT WITH WIDE LENS WITH 0–10V DIMMING 120V	METALUX	65W LED 3500K 6822 LUMENS	CEILING SURFACE	MODEL #: 8TSNLED–LD4–67SL–LW–UNV–L835–CD1–U
F1	4' LED LENSED STRIPLIGHT WITH WIDE LENS WITH 0–10V DIMMING 120V	METALUX	41W LED 3500K 4119 LUMENS	CEILING SURFACE	MODEL #: 4SNLED–LD4–41SL–LW–UNV–L835–CD1–U
F2	2' LED LENSED STRIPLIGHT WITH WIDE LENS WITH 0–10V DIMMING 120V	METALUX	XXW LED 3500K XXXX LUMENS	CEILING SURFACE	MODEL #: 2SNLED–LD4–XXSL–LW–UNV–L835–CD1–U
G	5" RECESSED LED DOWNLIGHT WITH HAZE REFLECTOR AND WHITE FLANGE 120V	HALO	13.1W LED 3500K 894 LUMENS	CEILING RECESSED	MODEL #: ML5609835–592H
H	WALL MOUNTED EXTERIOR INDIRECT FIXTURE 120V	AMETRIX	55W LED 4000K 4797 LUMENS	WALL SURFACE	MODEL #: ASYX–WM–S1–OD–D–F–L4–1–UNV–W–C–STD
J	RIBBON–LIGHT FIXTURE TO BE INSTALLED ON SIGN 120V	ACOLYTE	6W/LF LED 4000K 514 LUMEN/LF	MOUNT ON BUILDING SIGN	MODEL #: RB–6B–24–6.0–41 COORDINATE LENGTH WITH SIGNAGE FURNISH ALL POWER PACKS & MOUNTING ACCESSORIES FOR COMPLETE AND OPERABLE INSTALLATION
K	FLAGPOLE AREA LIGHT TO BE MOUNTED IN UNIT BLOCK RETAINING WALL. 120V	BEGA	10.1W LED 4000K	WALL RECESSED	MODEL #: 2038LED–K4
K1	STAIR LIGHT TO BE SET INTO UNIT BLOCK RETAINING WALL (1 PER EACH SIDE OF STAIRWELL). 120V	BEGA	8.4W LED 4000K	WALL RECESSED	MODEL #: 3065LED–K4
C	CEILING MOUNTED DUAL TECHNOLOGY UTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR 120V	GREENGATE	N/A	CEILING SURFACE	MODEL #: OAC–DT–2000R FURNISH RELAYS/POWER PACKS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION
CLO	CORNER MOUNTED DUAL TECHNOLOGY UTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR 120V	GREENGATE	N/A	WALL CORNER	MODEL #: OAWC–DC–120W–R FURNISH RELAYS/POWER PACKS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION
W	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR 120V	GREENGATE	N/A	WALL	MODEL #: ONW–P–1001–MV
2W	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR – 2 RELAY CONTACTS FOR FAN CONTROL 120V	GREENGATE	N/A	WALL	MODEL #: ONW–P–1001–DMV
	EMERGENCY BATTERY UNIT 120V	SURELITES	(2) 1.4 WATT LED	WALL SURFACE	MODEL #: LEM
WP	WEATHER PROOF REMOTE HEAD 120V	SURELITES	(2) 1.4 WATT LED	WALL SURFACE	MODEL #: LEMWR2
	LED EXIT SIGN EMERGENCY BATTERY UNIT COMBINATION WITH REMOTE CAPACITY 120V	SURELITES	(2) 0.78 WATT LED	UNIVERSAL MOUNT	MODEL #: APCH7

1 LIGHTING SCHEDULE
SCALE: NOT TO SCALE



2 FIRE ALARM RISER DIAGRAM
SCALE: NOT TO SCALE



3 EXTERIOR LIGHTING CONTROLS
SCALE: NOT TO SCALE

LIGHTING CONTROL SCHEDULE		
ROOM	FIXTURE "ON" BY	FIXTURE "OFF" BY
101 VESTIBULE	CEILING SENSOR	CEILING SENSOR
102 LOBBY	SWITCH	SWITCH/CEILING SENSOR
103 PUBLIC COUNTER/WAITING	SWITCH	WALL SENSOR/SWITCH
104 BUILDING DEPARTMENT	DIMMER SWITCH	SWITCH/CEILING SENSOR
105 WORK/MEETING AREA	DIMMER SWITCH	SWITCH/CEILING SENSOR
106 BUILDING INSPECTOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
107 BUILDING INSPECTOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
108 PLANNING DEPARTMENT	DIMMER SWITCH	SWITCH/CEILING SENSOR
109 LAND USE ADMINISTRATOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
110 TAX COLLECTOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
111 TOWN CLERK	DIMMER SWITCH	SWITCH/CEILING SENSOR
112 SMALL CONFERENCE	DIMMER SWITCH	SWITCH/CEILING SENSOR
113 CLERK OFFICE	DIMMER SWITCH	SWITCH/CEILING SENSOR
114 CLERK STORAGE	SWITCH	SWITCH/WALL SENSOR
115 WOMENS	SWITCH	WALL SENSOR/SWITCH
116 MENS	SWITCH	WALL SENSOR/SWITCH
117 BREAK ROOM	DIMMER SWITCH	SWITCH/CEILING SENSOR
118 STORAGE 1	SWITCH	SWITCH/CEILING SENSOR
119 ELEC/DATA PHONE	SWITCH	SWITCH/WALL SENSOR

LIGHTING CONTROL SCHEDULE		
ROOM	FIXTURE "ON" BY	FIXTURE "OFF" BY
120 STORAGE 2	SWITCH	SWITCH/CEILING SENSOR
121 SELECTMAN	DIMMER SWITCH	SWITCH/CEILING SENSOR
122 ADMIN	SWITCH	SWITCH/CEILING SENSOR
123 TOWN ADMINISTRATOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
124 FINANCE DIRACTOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
125 ASSISTANT FINANCE DIRECTOR	DIMMER SWITCH	SWITCH/CEILING SENSOR
126 WELFARE	DIMMER SWITCH	SWITCH/CEILING SENSOR
127 CORRIDOR	SWITCH	SWITCH/CEILING SENSOR
128 JANITOR	SWITCH	SWITCH/WALL SENSOR
129 LOBBY	SWITCH	SWITCH/CEILING SENSOR
130 WOMENS	SWITCH	SWITCH/WALL SENSOR
131 MENS	SWITCH	SWITCH/WALL SENSOR
132 MEETING	DIMMER SWITCH	SWITCH/CEILING SENSOR
133 STORAGE RM A/V CLOSET	SWITCH	WALL SENSOR
134 VESTIBULE	CEILING SENSOR	CEILING SENSOR
135 COVERED PATIO SPACE	SWITCH/TIMER/PHOTOCELL	SWITCH/TIMER/PHOTOCELL

4 LIGHTING CONTROL SCHEDULE
SCALE: NOT TO SCALE

BID & CONSTRUCTION SET
12/11/15

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NOTE: IT IS THE GCS, CMS AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED.

PROJECT:
BARRINGTON TOWN OFFICES
Ramsdell Lane, Barrington, New Hampshire 03825

DRAWING TITLE:
ELECTRICAL LIGHTING SCHEDULE, LIGHTING CONTROLS, & FIRE ALARM RISER DIAGRAM

ISSUED: BID & CONSTRUCTION SET
JOB NO: 1312
DRAWN BY: JMD
CHECKED BY: TDM
DATE: 12/11/15

REVISION	DATE

SHEET NUMBER:
E2.1