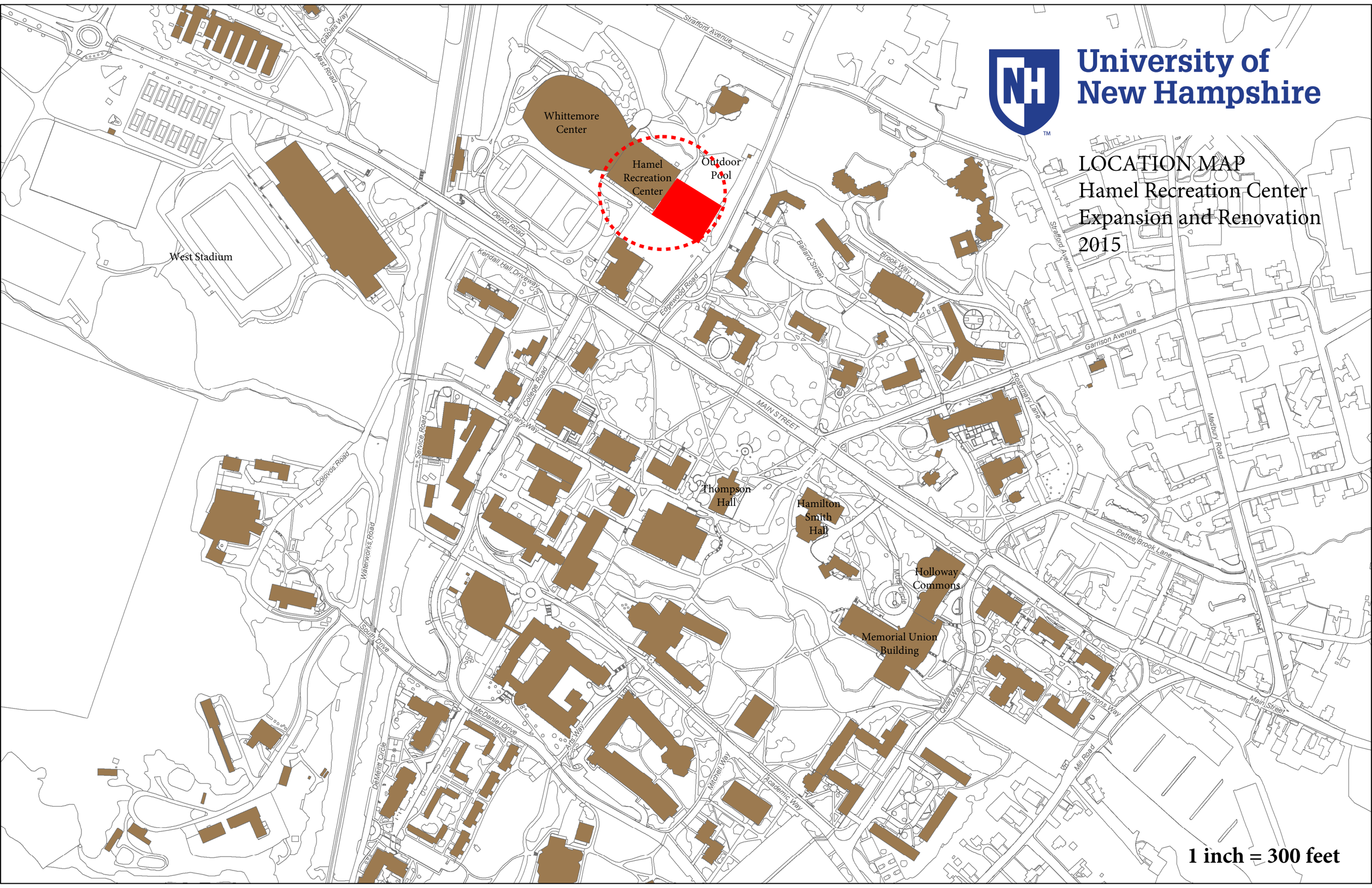
University of New Hampshire

LOCATION MAP
Hamel Recreation Center
Expansion and Renovation
2015



HAMEL RECREATION CENTER - VIEW FROM MEMORIAL FIELD

HAMEL RECREATION CENTER - VIEW FROM EDGEWOOD ROAD

UNIVERSITY OF NEW HAMPSHIRE

HAMEL RECREATION CENTER
RENOVATION AND EXPANSION

60% DESIGN DEVELOPMENT PROGRESS

JANUARY 16, 2014

UNIVERSITY ARCHITECT

UNIVERSITY OF NEW HAMPSHIRE
105 MAIN STREET
DURHAM, NEW HAMPSHIRE 03824
TEL: 603-862-5052
CONTACT: DANA PETERSON, AIA

OWNER REPRESENTATIVE

HAMEL STUDENT RECREATION CENTER
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TEL: 603-862-2073
CONTACT: STACEY HALL

ARCHITECT

HUGHES GROUP ARCHITECTS
22630 DAVIS DRIVE, SUITE 175
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CONTACT: J. LYNN REDA, AIA

STRUCTURAL - MEP - CIVIL - LANDSCAPE

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TEL: 603-431-1870
CONTACT: KENNETH WESTON

AQUATICS

WATER TECHNOLOGIES, INC.
100 PARK AVENUE
BEAVER DAM, WISCONSIN 53916
TEL: 920-887-7375
CONTACT: SCOTT LeMONDS

HUGHES GROUP ARCHITECTS
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STERLING, VIRGINIA 20164
703.437.6600

HAMEL RECREATION CENTER
RENOVATION AND EXPANSION

PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824

OWNER: UNIVERSITY OF NEW HAMPSHIRE

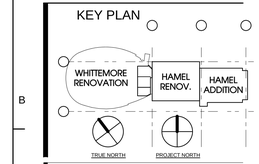
PROJ. NO: 1213

SEAL

INTERIM REVIEW ONLY

THESE DOCUMENTS ARE INCOMPLETE AND ARE RELEASED FOR INTERIM REVIEW ONLY AND ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES.

KEY PLAN



REVISIONS

MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/15	60% DD PROGRESS

COVER SHEET

CS-001

CIVIL NOTES:

1. PLAN REFERENCE: TOPOGRAPHIC PLAN OF HAMEL RECREATION CENTER, BY DOUCET SURVEY INC., MAY 10, 2013.

2. JURISDICTIONAL WETLANDS DELINEATED BY S.W. COLE ENGINEERING, INC, DURING APRIL 2013 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT Y-87-1.

3. HORIZONTAL DATUM BASED ON NAD83(CORS96) NEW HAMPSHIRE STATE PLANE 2800 DERIVED FROM STATIC GPS OBSERVATION PROCESSED BY THE NATIONAL GEODETIC SURVEY ON-LINE POSITIONING USER SERVICE (OPUS).

4. VERTICAL DATUM BASED ON NGVD29 PER NHDOT DISK "UNH 3 133-0290", ELEV.=77.44'

5. UNDERGROUND UTILITY INFORMATION BASED ON SURFACE EVIDENCE AND MARKINGS BY DIG SMART OF MAINE AND UNH GIS DATA COMPILED THROUGH A COMBINATION OF HISTORICAL AND GPS COLLECTED DATA SETS.

6. VERIFY EXISTING CONDITIONS AND DIMENSIONS, AND REPORT ANY DISCREPANCIES TO THE UNH PROJECT MANAGER. PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCY(IES) HAS(HAVE) BEEN RESOLVED.

7. WORK SHALL CONFORM WITH LOCAL, STATE AND FEDERAL CODES AND ORDINANCES WHICH APPLY TO THIS PROJECT.

8. COMPONENTS ARE NEW WITHIN THE LIMIT(S) OF WORK AND SHALL BE PROVIDED, UNLESS NOTED OTHERWISE.

9. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. DETERMINE THE EXACT LOCATION OF APPLICABLE UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. COORDINATE WITH THE UNH PROJECT MANAGER AND OBTAIN A "DIG SAFE" PERMIT PRIOR TO COMMENCING EXCAVATION OPERATIONS ON THE SITE. PREMARK THE AREA OF EXCAVATION IN ACCORDANCE WITH THE UNH DIGSAFE POLICY AND PRACTICES.

10. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A SAFE, SECURE, NEAT, AND CLEAN MANNER AS APPROVED BY UNH PROJECT MANAGER.

11. WORK SHALL BE PROVIDED IN COMPLIANCE WITH INDUSTRIES' STANDARDS AND PERFORMED IN A WORKMANLIKE PROFESSIONAL MANNER.

12. PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. DAMAGE RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE REPAIRED OR REPLACED AS APPROVED BY UNH PROJECT MANAGER.

13. COORDINATE THE SEQUENCE OF WORK, PROJECT SCHEDULE, TEMPORARY BARRICADES FOR PEDESTRIAN AND TRAFFIC CONTROL, STAGING AREAS, AND SITE UTILIZATION WITH THE UNH PROJECT MANAGER. COORDINATE WORK WITH UNH OUTDOOR POOL ADVANCED SITEWORK PROJECT AND VOLUME 2: OUTDOOR POOL, BATH HOUSE, PUMP HOUSE.

14. MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED OR CLAIMED BY THE UNIVERSITY PRIOR TO REMOVAL. DISPOSE OF MATERIALS OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND CODES. THERE ARE NO PROVISIONS FOR WASTE MATERIALS ON UNH PROPERTY.

15. GIVEN DIMENSIONS ARE FROM FACE OF CURB, FACE OF WALL, FACE OF BUILDING AND CENTERLINE OF PAVEMENT MARKING UNLESS OTHERWISE NOTED.

16. COORDINATE UTILITY WORK WITH THE RESPECTIVE UTILITY COMPANY. UTILITY WORK SHALL BE IN ACCORDANCE WITH UTILITY COMPANY STANDARDS AND SPECIFICATIONS.

17. KNOWN PERMITS REQUIRED FOR CONSTRUCTION OF THIS PROJECT INCLUDE BUT ARE NOT LIMITED TO:
    A. UNH DIGSAFE AND TRENCH PERMITS.
    B. NHDES ALTERATION OF TERRAIN COMPLIANCE WITH ENV-WQ 1503.03 GENERAL PERMIT BY RULE REQUIREMENTS. SPECIAL ATTENTION SHALL BE GIVEN TO COLD WEATHER SITE STABILIZATION REQUIREMENTS THEREIN.
    C. USEPA NPDES STORMWATER PERMIT NOI AND NOT.
    D. NHDES SEWER EXTENSION PERMIT.

18. UPDATE AND COMPLY WITH THE EXISTING STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OR OR PREPARE A SWPPP. OBTAIN OPERATOR COVERAGE UNDER THE NHDES NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND COMPLY WITH THE REQUIREMENTS AND CONDITIONS OF THE PERMIT.

SPECIAL WINTER CONDITIONS FOR BACKFILL AND EMBANKMENT:

1. FILL SHALL BE PLACED ON UNFROZEN SUBGRADE WHICH IS STABLE AND FIRM DURING PROOFROLLING/COMPACTION.

2. EXPOSED STRUCTURAL FILL SHALL BE COMPACTED AT THE END OF EACH DAY IN ANTICIPATION OF FREEZING OVERNIGHT TEMPERATURES. WHEN THE PREVAILING TEMPERATURES ARE BELOW 30°F, FILL SHALL HAVE A MOISTURE CONTENT, AT THE TIME OF COMPACTION, EQUAL TO OR LESS THAN THE OPTIMUM MOISTURE CONTENT.

3. FROZEN FILL WHICH IS FRIABLE MAY REMAIN IN-PLACE AFTER BREAKING UP THE SURFACE WITH A BULLDOZER. FROZEN FILL MORE THAN 1/4" THICK SHALL BE REMOVED PRIOR TO PLACING ADDITIONAL FILL. FROZEN FILL LESS THAN 1/4" THICK SHALL BE BROKEN UP WITH A BULLDOZER OR OTHER COMPACTOR WITH A PAD DRUM AND RE-COMPACTED PRIOR TO PLACEMENT OF ADDITIONAL FILL. TEMPORARY FILL MATERIAL MAY REMAIN IN-PLACE AFTER BEING EXPOSED TO OVERNIGHT FREEZING TEMPERATURES. TESTING AGENCY SHALL VERIFY THAT EXPOSED SURFACES MEET THE ABOVE CONDITIONS PRIOR TO ADDITIONAL FILL PLACEMENT.

4. SNOW SHALL BE REMOVED FROM EXPOSED SURFACES PRIOR TO PLACING ADDITIONAL PERMANENT FILL MATERIAL. SNOW LESS THAN 1 INCH THICK MAY REMAIN IN FILL AREAS PRIOR TO ADDITIONAL FILL PLACEMENT.

5. MEASURES TO REDUCE FROST PENETRATION DURING OVERNIGHT EXPOSURE TO FREEZING TEMPERATURES SHALL INCLUDE COVERING EXPOSED SURFACES WITH DARK COLORED TARPS, CONCRETE BLANKETS, AND THE USE OF SACRIFICIAL MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS AND SHALL CONSIDER SCHEDULE, WEATHER, AND EXPERIENCE IN SELECTING FROST PREVENTIVE MEASURE(S).

CIVIL ABBREVIATIONS:

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BMP'S	BEST MANAGEMENT PRACTICES
CB	CATCH BASIN
CONC	CONCRETE
CIP	CAST IN PLACE
DIA	DIAMETER
E	EASTING
ECB	EXISTING CATCH BASIN
ELEV	ELEVATION
ESMH	EXISTING SEWER MANHOLE
EW	EACH WAY
EXIST	EXISTING
FFE	FINISH FLOOR ELEVATION
FT	FEET
GAL	GALLON
GIS	GEOGRAPHIC INFORMATION SYSTEM
HDPE	HIGH DENSITY POLYETHYLENE
IN	INCH
INV	INVERT
LBS	POUNDS
MAX	MAXIMUM
MIN	MINIMUM OR MINUTE
N	NORTHING
NHDOT	NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION
NOI	NOTICE OF INTENT
NOT	NOTICE OF TERMINATION
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OZ	OUNCES
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REINF	REINFORCED
SGC	SLOPED GRANITE CURB
SF	SQUARE FOOT
SIM	SIMILAR
SMH	SEWER MANHOLE
SQ	SQUARE
SY	SQUARE YARDS
TBM	TEMPORARY BENCH MARK
TYP	TYPICAL
UNH	UNIVERSITY OF NEW HAMPSHIRE
VGC	VERTICAL GRANITE CURB
W	WIDTH
W/	WITH
YDS	YARDS
#	NUMBER

PLAN REFERENCES:

1. OUTDOOR SWIMMING POOL GENERAL PLAN, BY WESTON & SAMPSON CONSULTING ENGINEERS, JANUARY 11, 1937.

2. UNIVERSITY OF NEW HAMPSHIRE SNIVELY POOL GENERAL PLAN, NOVEMBER 28, 1990.

3. TOPOGRAPHIC PLAN OF HAMEL RECREATION CENTER AT THE UNIVERSITY OF NEW HAMPSHIRE, BY DOUCET SURVEY, INC., MAY 10, 2013.

4. UNIVERSITY OF NEW HAMPSHIRE RECREATIONAL SPORTS CENTER, BY SASAKI ASSOCIATES, INC., SEPTEMBER 2, 1994.

5. UNH OUTDOOR POOL ADVANCED SITEWORK, BY OAK POINT ASSOCIATES, NOVEMBER 13, 2014.

6. PRELOAD FILL AS-BUILT TOPOGRAPHIC SURVEY BY NORTHEAST EARTH MECHANICS, INC., DECEMBER 18, 2014.

DRAINAGE STRUCTURES

ECB 1
RIM ELEV=62.7'
(A) 8" CIP INV=59.2'
(B) 4" PVC INV=61.1'
(C) 8" CIP INV=59.2'

ECB 2
RIM ELEV=62.6'
(A) 8" CIP INV=58.8'
(B) 4" CIP INV=59.8'
(C) INV=59.0'(RECESSED)

ECB 3
RIM ELEV=63.6'
SUMP=57.0'

ECB 4
RIM ELEV=67.6'
(A) 8" PVC INV=61.3'

ECB 5
RIM ELEV=63.3'
(A) 20" RCP INV=56.7'
(B) 20" RCP INV=56.8'
(10" ENCLOSED CIP RUNNING THROUGH STRUCTURE, TOP=58.3')

ECB 6
RIM ELEV=62.0'
(A) 20" CIP INV=56.2'
(B) 20" RCP INV=56.3'

ECB 11
RIM ELEV=66.5'
(NO VISIBLE INVERTS)
SUMP=60.1'

ECB 12
RIM ELEV=66.1'
(A) 8" HDPE INV=61.7'
(B) 12" RCP INV=61.7'
(C) 12" RCP INV=61.6'

ECB 13
RIM ELEV=66.6'
(A) 12" RCP INV=58.4'
(B) 18" RCP INV=58.4'
(C) 18" RCP INV=58.3'

EDMH 28
RIM ELEV=66.9'
(A) 8" HDPE INV=62.2'
(B) 8" HDPE INV=62.2'

ECB 29
RIM ELEV=75.3'
(NO VISIBLE INVERTS)
SUMP=70.7'

ECB 30
RIM ELEV=71.1'
(A) 12" RCP INV=67.0'
(B) 2" PVC INV=68.3'
(C) 2" PVC INV=68.6'

SEWER STRUCTURES

ESMH 1
RIM ELEV=67.4'
(A) 8" PVC INV=62.3'
(B) 6" PVC INV=62.5'
(C) 8" PVC INV=62.2'
(D) 8" PVC INV=62.4'

ESMH 5
RIM ELEV=75.7'
(A) 8" CIP INV=67.0'
(B) 8" INV=67.0'
(C) 4" PVC INV=72.9'

ESMH 6
RIM ELEV=75.9'
(A) 8" CIP INV=67.3'
(B) 8" CIP INV=67.3'

ESMH 7
RIM ELEV=75.5'
(A) 10" CIP INV=63.3'
(B) 8" PVC INV=67.2'
(C) 8" PVC INV=63.1'
(D) 18" INV=63.1'

ESMH 8
RIM ELEV=71.3'
(A) 6" CIP INV=64.2'
(B) 6" CIP INV=64.1'

EFM 1
RIM ELEV=71.3'
SUMP=60.9'

COMMUNICATIONS STRUCTURES

ETMH 1
RIM ELEV=64.8'±
SUMP=58.9'

ETMH 2
RIM ELEV=67.1'
SUMP=58.6'

ETMH 3
RIM ELEV=66.8'
SUMP=58.0'

CIVIL LEGEND:

DETAIL NUMBER / SHEET WHERE DETAIL IS DRAWN / SHEETS WHERE DETAIL IS TAKEN	DETAIL LABEL
1	KEYNOTE INDICATOR
2	REMOVALS KEYNOTE INDICATOR
70	EXISTING GRADE CONTOUR LINE
	EXISTING BUILDING LINE
EEOP	EXISTING EDGE OF PAVEMENT
ESGC	EXISTING SLOPED GRANITE CURB
EVGC	EXISTING VERTICAL GRANITE CURB
EDYL	EXISTING DOUBLE YELLOW PAINTED PAVEMENT MARKING
ESWL	EXISTING SINGLE WHITE PAINTED PAVEMENT MARKING
	EXISTING EDGE OF JURISDICTIONAL WETLANDS
	EXISTING WETLAND AREA
ESD(12")	EXISTING STORM DRAIN LINE (PIPE SIZE AS NOTED)
ESS(ABAN)	EXISTING ABANDONED SANITARY SEWER LINE
ESS(12")	EXISTING SANITARY SEWER LINE (PIPE SIZE AS NOTED)
EFM	EXISTING SANITARY SEWER FORCE MAIN
EW(6")	EXISTING WATER LINE (PIPE SIZE AS NOTED)
EG	EXISTING GAS LINE (PIPE SIZE AS NOTED)
EUC	EXISTING UNDERGROUND COMMUNICATION LINE
EUE	EXISTING UNDERGROUND ELECTRIC LINE
EOHW	EXISTING OVERHEAD ELECTRIC/COMMUNICATIONS LINE
EOHC	EXISTING OVERHEAD COMMUNICATIONS LINE
EOHE/C	EXISTING OVERHEAD ELECTRIC AND COMMUNICATIONS LINE
EHW	EXISTING UNDERGROUND HOT WATER SUPPLY AND RETURN LINES
	EXISTING METAL FENCE
	EXISTING PICKET FENCE
	EXISTING CHAIN LINK FENCE
	EXISTING GUARDRAIL
	EXISTING STONE WALL
	EXISTING LIGHT POLE
	EXISTING LIGHT POLE WITH SINGLE FIXTURE
	EXISTING LIGHT POLE WITH DOUBLE FIXTURES
	EXISTING TRAFFIC SIGN
	EXISTING BOLLARD
	EXISTING UTILITY POLE
	EXISTING UTILITY POLE AND SUPPORT POLE
E	EXISTING ELECTRIC BOX
M	EXISTING MONITORING WELL
© ETMH	EXISTING COMMUNICATIONS MANHOLE
□ ECB	EXISTING CATCH BASIN
D EDMH	EXISTING DRAINAGE MANHOLE
S ESMH	EXISTING SANITARY MANHOLE
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SURVEY STATION
B-1 P104	EXISTING SOIL BORING OR PROBE LOCATION (REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION)
	EXISTING EXPOSED LEDGE AREA
	EXISTING CONCRETE
	EXISTING RIPRAP
	EXISTING CONIFEROUS TREE
	EXISTING DECIDUOUS TREE
	EXISTING TREE STUMP
	EXISTING TREE LINE
70	FINISH GRADE CONTOUR LINE
63.20	FINISH GRADE SPOT ELEVATION
FM(4")	SANITARY SEWER FORCE MAIN (PIPE SIZE AS NOTED)
SS(8")	SANITARY SEWER LINE (PIPE SIZE AS NOTED)
SD(12")	STORM DRAIN LINE (PIPE SIZE AS NOTED)
W(8")	WATER LINE (PIPE SIZE AS NOTED)
FD(4")	PERIMETER FOUNDATION DRAIN LINE (PIPE SIZE AS NOTED)
UE(2")	UNDERGROUND ELECTRIC LINE (CONDUIT SIZE AS NOTED)
UC(6-4")	UNDERGROUND COMMUNICATIONS DUCTBANK (CONDUIT SIZE AND NUMBER AS NOTED)
	FIRE HYDRANT
W	WATER VALVE
	JOINT RESTRAINT
	WATER FITTING (REDUCER)
	CATCH BASIN
©	COMMUNICATIONS MANHOLE
S	SANITARY SEWER MANHOLE

HG ARCHITECTS
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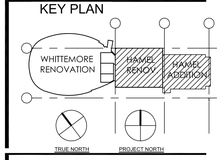
OAK POINT ASSOCIATES

HAMEL RECREATION CENTER RENOVATION AND EXPANSION RECREATION CENTER

PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824
OWNER: UNIVERSITY OF NEW HAMPSHIRE
PROJ NO: 1213

SEAL

KEY PLAN



REVISIONS

MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

CIVIL LEGEND NOTES, AND ABBREVIATIONS

C001

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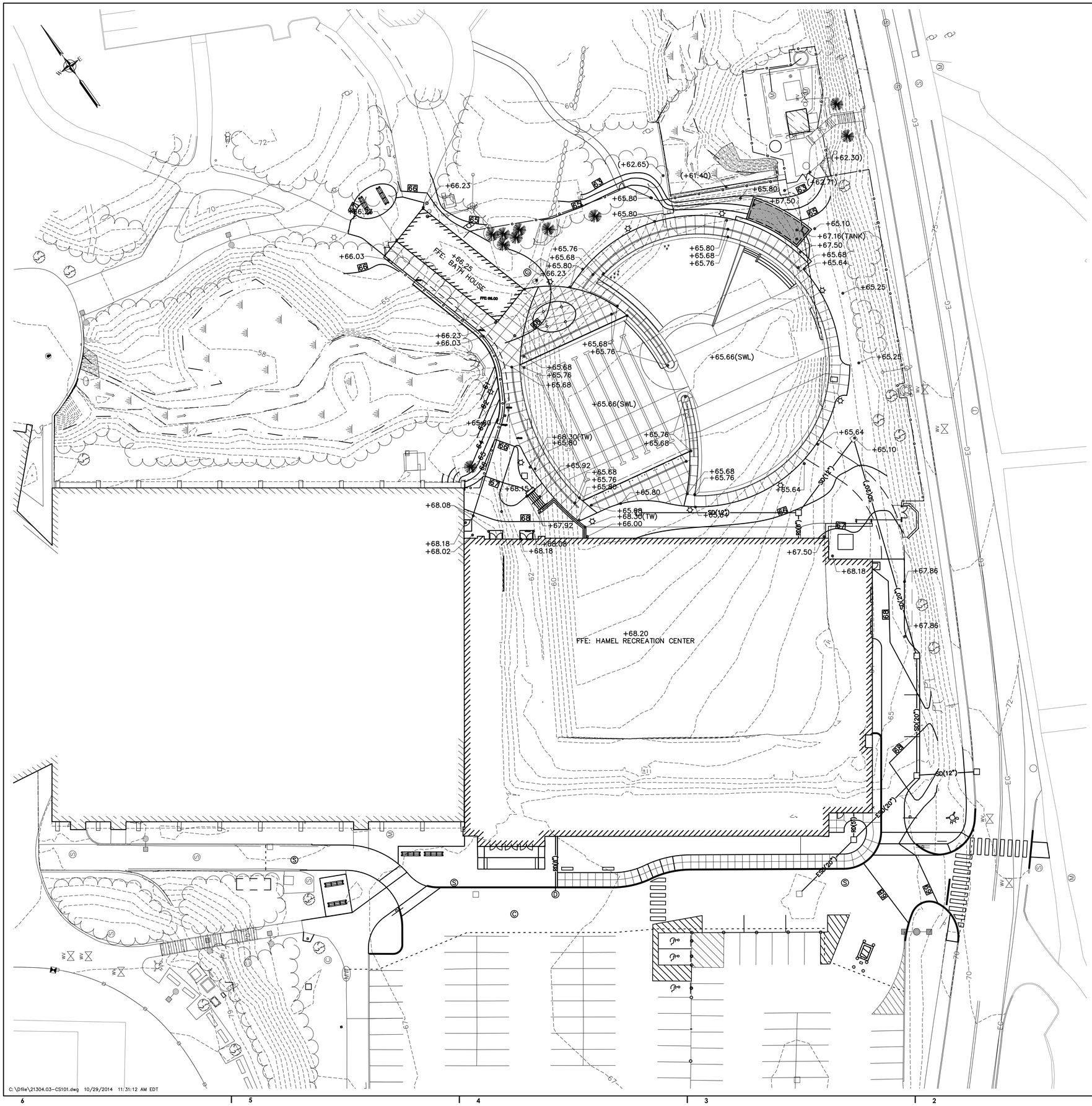

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D C B A

HG
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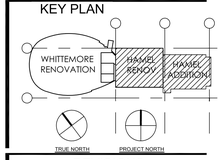


REVISIONS

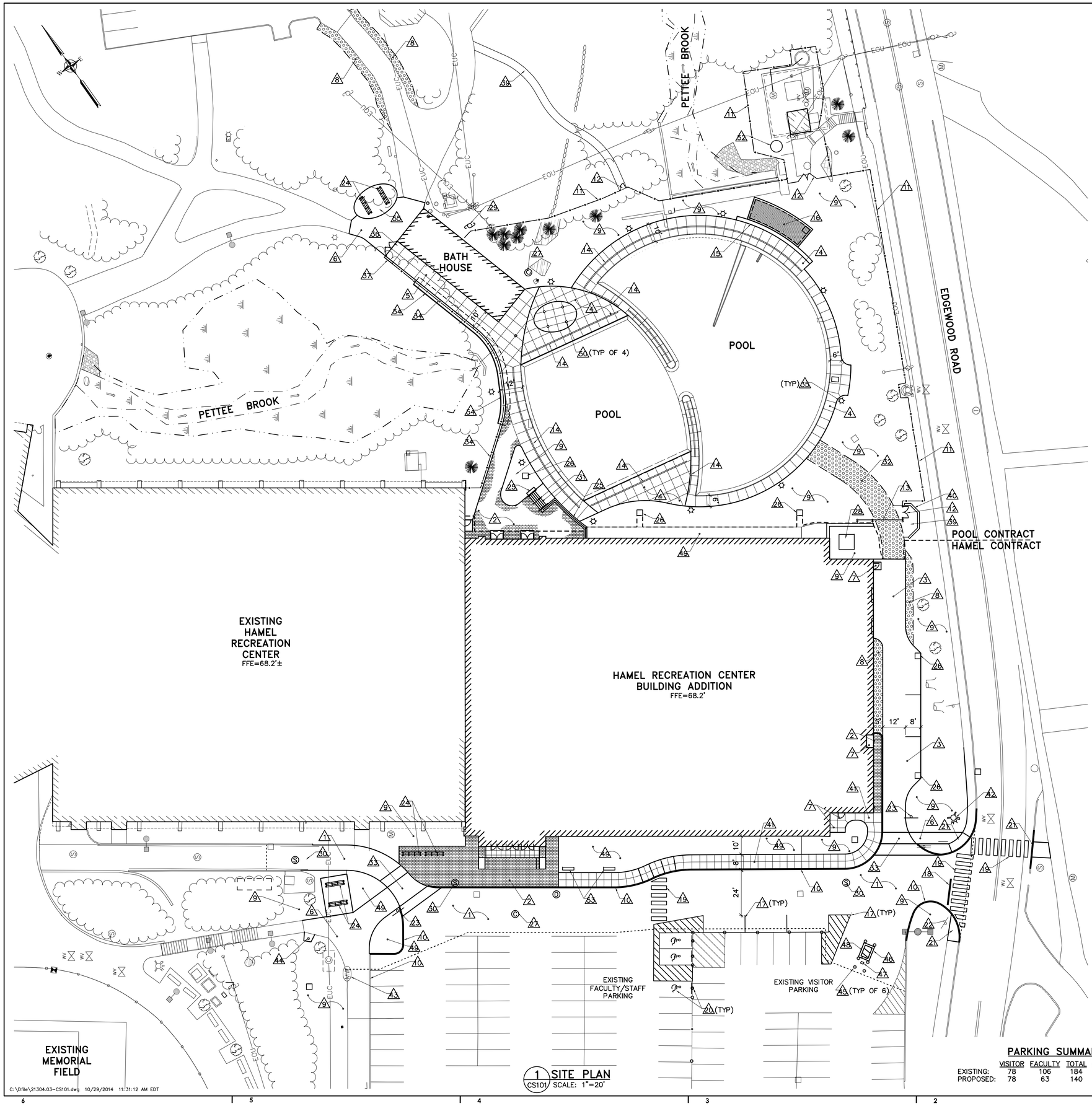
MARK	DATE	ISSUE

DRAINAGE ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

GRADING AND DRAINAGE SITE PLAN

CG101



1 SITE PLAN
CS101 SCALE: 1"=20'

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KEYNOTES:

1. ASPHALT CONCRETE PAVEMENT.
2. POROUS PAVER WALK.
3. POROUS ASPHALT SERVICE DRIVE.
4. CONCRETE POOL DECK.
5. CONCRETE WALK.
6. ASPHALT CONCRETE WALK.
7. CONCRETE STOOP.
8. STABILIZED TURF SHOULDER.
9. TURF.
10. GRANITE CURB.
11. CHAIN LINK FENCE.
12. CHAIN LINK MANUAL SWING GATE.
13. CHAIN LINK MANUAL SLIDING GATE.
14. TRENCH DRAIN.
15. STONE VENEER SEAT WALL.
16. POOL SURGE TANK WITH COMPOSITE WOOD DECK SURFACE.
17. 4" WIDE WHITE PAVEMENT MARKING.
18. PAINTED STOP BAR.
19. PAINTED CROSS WALK
20. ACCESSIBLE PAVEMENT MARKING AND SIGN.
21. ACCESSIBLE CURB RAMP.
22. STOP SIGN.
23. "SERVICE VEHICLE ONLY" SIGN.
24. BICYCLE RACK.
25. STONE VENEER RETAINING WALL.
26. CATCH BASIN.
27. COMMUNICATIONS MANHOLE.
28. TRANSFORMER.
29. UTILITY POLE.
30. SEWER MANHOLE.
31. CONCRETE STEPS.
32. STABILIZED TURF ACCESS DRIVE.
33. RAISED ASPHALT CROSSWALK. (NOT POROUS)
34. DECORATIVE METAL FENCE. (6' HIGH) SEE ARCH'L PLANS.
35. POLE MOUNTED LIGHT FIXTURE.
36. GATE.
37. WALL. (REFER TO BATH HOUSE DRAWINGS)
38. CONCRETE BLOCK RETAINING WALL.
39. STONE DUST WALK.
40. CONCRETE RETAINING WALL.
41. CONCRETE WALK.
42. FIRE HYDRANT.
43. PROTECT EXISTING GROUNDWATER MONITORING WELL TO REMAIN. ADJUST COVER TO FINISHED GRADE.
44. EMERGENCY CALL BOX TO BE REINSTALLED.
45. BOLLARD.
46. CONCRETE PAD.
47. REINSTALL PARKING PAY MACHINE.
48. GUARD STATION TO RE REINSTALLED.
49. PLANTING AREA (SEE DRAWING LS101).
50. OUTDOOR SHOWER.
51. DECK.
52. 1000 GALLON CHEMICAL STORAGE TANK.
53. BENCH.
54. LARGE CONCRETE BLOCK RETAINING WALL.
55. RECLAIMED STONE PAVERS.

PARKING SUMMARY

	VISITOR	FACULTY	TOTAL	ACCESSIBLE
EXISTING:	78	106	184	3
PROPOSED:	78	63	140	5(ADA REQUIRED)

GRAPHIC SCALE

1"=20' — 20' 10' 0 20' 40'

HG ARCHITECTS
22630 DAVIS DRIVE, SUITE 175 STERLING, VIRGINIA 20164 703.437.6600

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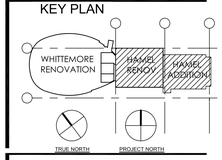

REVISIONS

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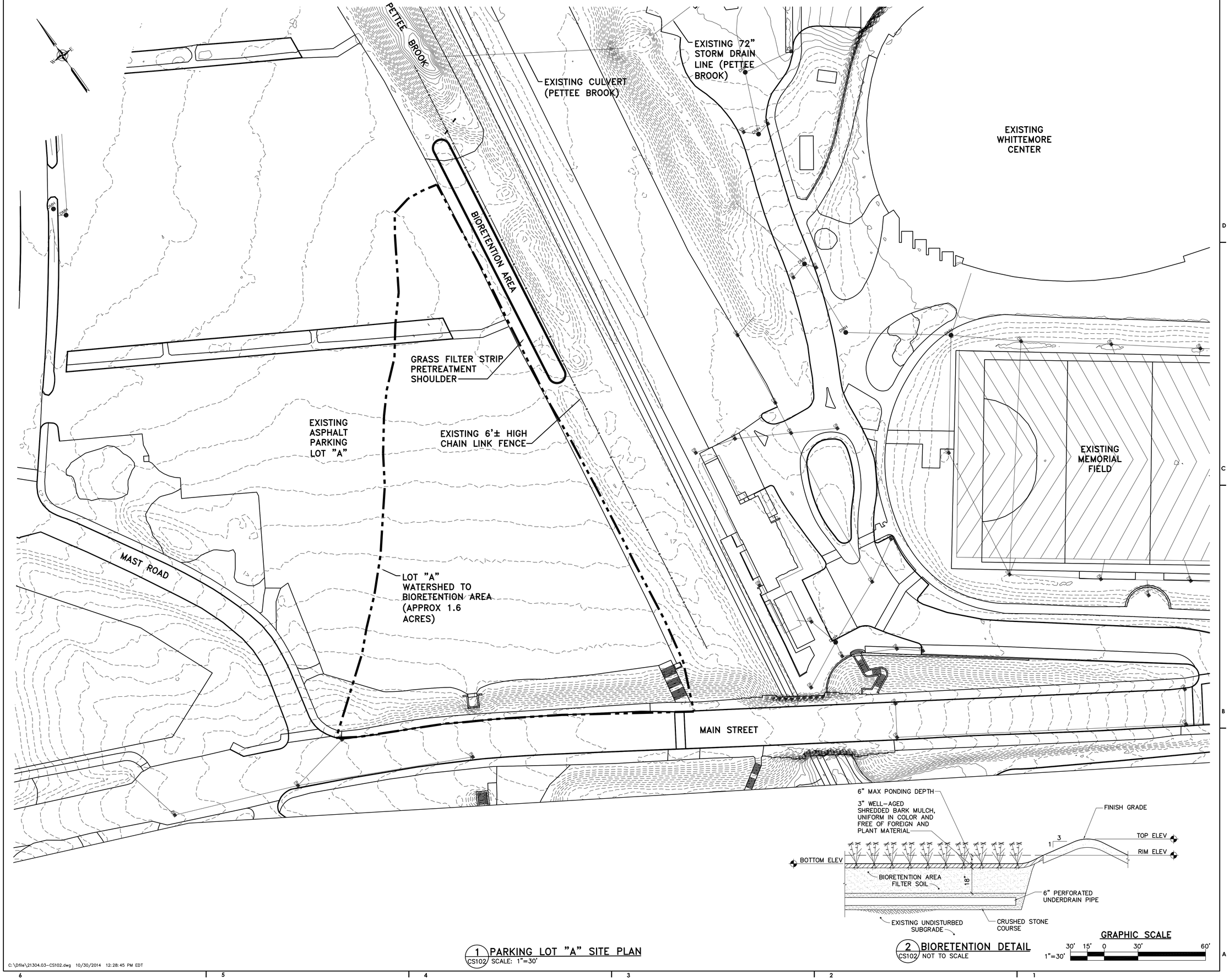
ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

SITE PLAN

CS101



1 PARKING LOT "A" SITE PLAN
CS102 SCALE: 1"=30'

2 BIORETENTION DETAIL
CS102 NOT TO SCALE

GRAPHIC SCALE
1"=30' 30' 15' 0 30' 60'

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22630 DAVIS DRIVE, SUITE 175 STERLING, VIRGINIA 20164 703.437.6600

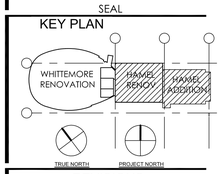
OAK POINT ASSOCIATES

HAMEL RECREATION CENTER RENOVATION AND EXPANSION RECREATION CENTER

PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824
OWNER: UNIVERSITY OF NEW HAMPSHIRE
PROJ.NO: 1213

SEAL

KEY PLAN



REVISIONS

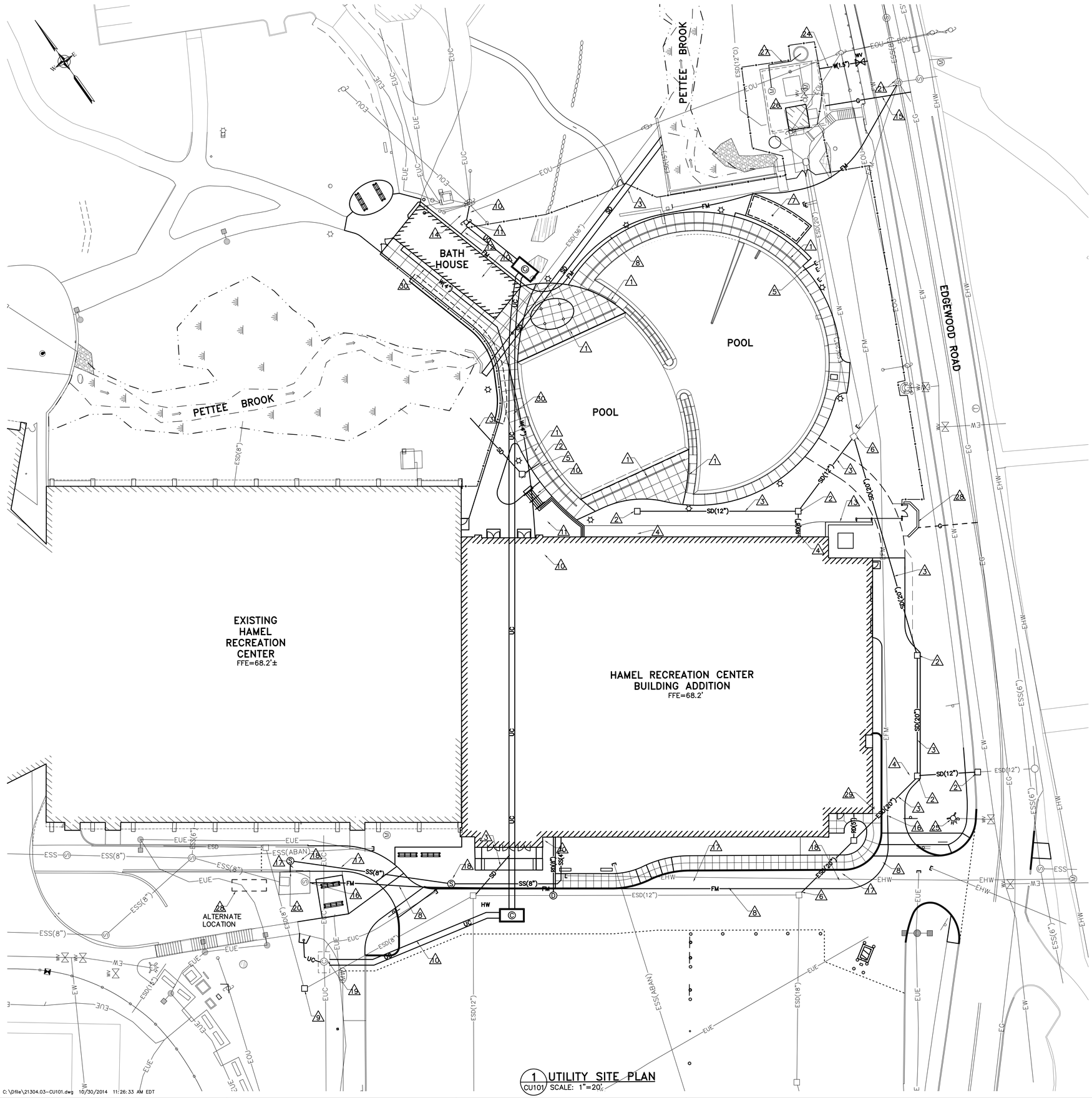
MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

PARKING LOT "A" SITE PLAN

CS102



1 UTILITY SITE PLAN
CU101 SCALE: 1"=20'

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KEYNOTES:

1. TRENCH DRAIN.
2. CATCH BASIN.
3. STORM DRAIN LINE.
4. ROOF DRAIN LINE.
5. TRENCH DRAIN CONNECTION.
6. CONNECT TO EXISTING CATCH BASIN.
7. POOL SURGE TANK.
8. SEWER FORCE MAIN.
9. REPLACE SOLID COVER AND FRAME WITH GRATE AND FRAME.
10. UNDERGROUND COMMUNICATIONS DUCT BANK.
11. COMMUNICATIONS MANHOLE.
12. UNDERGROUND ELECTRICAL SERVICE.
13. TRANSFORMER. (ELEVATED ABOVE POOL ELEVATION)
14. UTILITY POLE.
15. BID OPTION ___. NATURAL GAS LINE SERVICE TO PUMP HOUSE.
16. CONNECT TO EXISTING SANITARY SEWER FORCE MAIN. PROVIDE BY-PASS PUMPING.
17. SANITARY SEWER LINE.
18. SEWER MANHOLE.
19. CONNECT TO EXISTING COMMUNICATIONS MANHOLE.
20. CONNECT TO EXISTING SANITARY SEWER WET WELL.
21. CONNECT TO EXISTING SANITARY SEWER MANHOLE.
22. NOT USED.
23. NOT USED.
24. WATER LINE AND VALVE. CORE THROUGH VAULT WALL.
25. FIRE HYDRANT.
26. REMOVE EXISTING ELECTRIC PUMP AND PROVIDE ELECTRIC PUMP. CONNECT TO EXISTING POWER SUPPLY AND FORCE MAIN.
27. SUMP PUMP PIPE AND FILTER DISCHARGE PIPE TO STORAGE TANK TOP.
28. FUTURE GENERATOR AND ENCLOSURE.
29. FIRE DEPARTMENT HOSE CONNECTION.
30. WATER LINE.

NOTES:

1. REFER TO POOL DRAWINGS FOR POOL PLUMBING.
2. REFER TO ELECTRICAL SITE PLAN FOR SITE LIGHTING.

GRAPHIC SCALE
1"=20' 20' 10' 0 20' 40'

HG HOERR GRETLER ARCHITECTS
22630 DAVIS DRIVE, SUITE 175 STERLING, VIRGINIA 20164 703.437.6600

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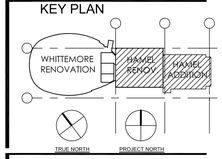

REVISIONS

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DATE	ISSUANCE
01/16/2015	60% DD Progress

UTILITY SITE PLAN

CU101

EROSION AND SEDIMENT CONTROL

A. GENERAL NOTES

1. DURING CONSTRUCTION AND THEREAFTER, PROVIDE EROSION CONTROL MEASURES AS INDICATED AND SPECIFIED. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORM WATER MANUAL".

2. PROVIDE EROSION CONTROL MEASURES TO CONTROL EROSION AND SEDIMENTATION FROM THE PROJECT SITE. THE MEASURES INDICATED ON THE DRAWINGS ARE A MINIMUM TO BE PROVIDED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS NECESSARY AND APPLICABLE TO CONTROL EROSION AND SEDIMENTATION FROM LEAVING THE SITE. TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED AS REQUIRED TO COMPLY WITH NHDES ALTERATION OF TERRAIN GENERAL PERMIT BY RULE REQUIREMENTS AND TO MEET REQUIREMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

3. LIMIT AREAS OF EXPOSED SOILS TO THOSE AREAS THAT WILL ACTIVELY BE WORKED. TEMPORARILY STABILIZE AREAS OF DISTURBED SOIL THAT REMAIN UNWORKED FOR MORE THAN 14 DAYS USING TEMPORARY MULCHING (IF THE SOIL WILL BE PERMANENTLY STABILIZED WITHIN 30 DAYS) OR TEMPORARY SEEDING AND MULCHING (IF THE SOIL WILL NOT BE PERMANENTLY STABILIZED WITHIN 30 DAYS). PERMANENTLY STABILIZE ANY AREA OF DISTURBED SOIL BROUGHT TO FINAL GRADE WITHIN 7 DAYS. DISTURBED SOILS DO NOT INCLUDE COMPACTED GRANULAR OR STRUCTURAL FILLS.

4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
   - A MINIMUM OF 6 INCHES OF GRANULAR OR STRUCTURAL FILL HAS BEEN INSTALLED.
   - A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED.
   - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED.
   - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

5. ALL SWALES SHALL BE INSTALLED EARLY IN THE CONSTRUCTION SEQUENCE. SWALES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.

B. INSPECTION AND MAINTENANCE

1. INSPECT DISTURBED AND IMPERVIOUS AREAS, AND EROSION CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT AREA AT LEAST ONCE A WEEK AND BEFORE AND AFTER EACH STORM EVENT, GREATER THAN 0.1", PRIOR TO COMPLETION OF PERMANENT STABILIZATION. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE NPDES STANDARDS MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

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

3. MAINTAIN ALL EROSION CONTROL MEASURES FOR THE LIFE OF THE PROJECT AND UNTIL PERMANENT STABILIZATION OF THE ENTIRE SITE IS ESTABLISHED. PERMANENT STABILIZATION SHALL CONSIST OF AT LEAST 90-PERCENT VEGETATION OR PAVEMENT.

4. PROTECT ALL STABILIZED AREAS FROM EROSION AND IMMEDIATELY REPAIR/REVEGETATE ERODED AREAS.

5. SEDIMENT ACCUMULATIONS SHALL BE REMOVED FROM HAYBALE BARRIERS AND SILT FENCES WHEN THE SEDIMENT DEPTH REACHES 6 INCHES.

6. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES WITHIN 30 DAYS AFTER THE TRIBUTARY AREA HAS BEEN PERMANENTLY STABILIZED. REMOVE ANY ACCUMULATED SEDIMENTS AND STABILIZE.

C. SEQUENCE OF CONSTRUCTION

1. INITIAL OPERATIONS INCLUDE INSTALLATION OF EROSION CONTROL DEVICES.

2. CLEAR TREES, GRUB OUT STUMPS AND STRIP TOPSOIL.

3. COMMENCE LARGE-SCALE EARTH EXCAVATION MOVING OPERATIONS.

4. COMPLETE SITE WORK CONSTRUCTION. PROVIDE SEEDING, MULCHING, OR OTHER SURFACE TREATMENTS AS INDICATED IMMEDIATELY UPON ESTABLISHMENT OF FINISH GRADES.

D. SOIL STOCKPILE STABILIZATION

1. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 30 DAYS SHALL BE COVERED WITH HAY MULCH (90 LBS HAY/1000 SF) OR COVERED WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.

2. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN LONGER THAN 30 DAYS SHALL BE SEEDED WITH A CONSERVATION MIX OF ANNUAL RYE GRASS (0.9 LB/1000 SF) AND HAY MULCHED (90 LBS. HAY/1000 SF) WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.

3. ALL SOIL AND FILL STOCKPILES SHALL HAVE A SEDIMENT BARRIER (e.g. HAY-BALE BARRIER OR SILT FENCING) INSTALLED AROUND THE DOWNHILL EDGE OF THE STOCKPILE TO TRAP SEDIMENTS.

E. TEMPORARY SEEDING

1. BEDDING - REMOVE STONES AND TRASH THAT WILL INTERFERE WITH SEEDING THE AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT 4" TO PREPARE SEED BED AND MIX THE FERTILIZER INTO THE SOIL.

2. FERTILIZER - FERTILIZER SHALL BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING TILLED INTO THE SOIL. A 10-10-10 MIX OF FERTILIZER SHOULD BE APPLIED AT A RATE OF 300 LBS PER ACRE.

3. SEED MIXTURE - USE ANY OF THE FOLLOWING IN UPLAND AREAS:

	SEEDING RATES			
SPECIES	ACRE	1,000 SF	DATES	DEPTH
WINTER RYE	112 LBS	2.5 LBS	8/15 - 9/5	1 INCH
OATS	80 LBS	2.0 LBS	SPRING - 5/15	1 INCH
ANNUAL RYEGRASS	40 LBS	1.0 LBS	4/15 - 9/15 WITH MULCH	0.25 INCH

4. MULCHING FOR TEMPORARY SEEDING - WHERE IT IS IMPRACTICAL TO INCORPORATE FERTILIZER AND SEED INTO MOIST SOIL, THE SEEDED AREA SHALL BE MULCHED TO FACILITATE GERMINATION. MULCH IN THE FORM OF HAY OR STRAW SHALL BE APPLIED AT A RATE OF 70 TO 40 90 LBS PER 1,000 SF.

5. REMOVE TEMPORARY GROWTH FROM TEMPORARY SEEDING PRIOR TO PERMANENT SEEDING.

F. MULCHING

PROVIDE TEMPORARY MULCHING ON SLOPES, CHANNELS, OTHER EROSION PRONE AREAS, AND ALL EXPOSED SOILS THAT CANNOT RECEIVE PERMANENT COVER WITHIN 14 DAYS OF DISTURBANCE. ALSO PROVIDE MULCH FOLLOWING TEMPORARY AND PERMANENT SEEDING AS SPECIFIED. MULCH ANCHORS SHALL BE USED ON SLOPES GREATER THAN 5% IN FALL (PAST OCTOBER 1, AND OVER WINTER TO APRIL 1).

MULCH TYPE	RATE PER 1000 SF
HAY OR STRAW	70 TO 40 90 LBS.
WOOD CHIPS OR BARK MULCH	480 TO 920 LBS.
JUTE AND FIBROUS MATTING	AS PER MANUFACTURERS' SPECIFICATIONS
CRUSHED STONE 1/4" TO 1-1/2"	SPREAD MORE THAN 1/2" THICK

G. TEMPORARY EROSION CONTROL MAT SPECIFICATIONS

1. STRAW EROSION CONTROL MAT CONSISTING OF A MACHINE PRODUCED MAT OF 100 PERCENT AGRICULTURAL STRAW FIBER, MINIMUM WEIGHT: 0.5 LBS/SY. NETTINGS SHALL BE LIGHTWEIGHT PHOTODEGRADEABLE WITH PHOTO ACCELERATORS, TOP SIDE ONLY, MINIMUM WEIGHT: 1.5 LB/SF. THE BLANKET SHALL BE SEWN TOGETHER WITH DEGRADABLE THREAD. MINIMUM WIDTH: 48", MINIMUM THICKNESS: 0.39 INCH. THE MINIMUM FUNCTIONAL LONGEVITY OF THE EROSION CONTROL MAT SHALL BE 45 DAYS.

H. EXTENDED USE EROSION CONTROL BLANKET SPECIFICATION

1. STRAW EROSION CONTROL MAT CONSISTING OF A MACHINE PRODUCED MAT OF 100 PERCENT AGRICULTURAL STRAW FIBER, MINIMUM WEIGHT: 0.5 LBS/SY. NETTINGS SHALL BE 100 PERCENT BIODEGRADABLE WOVEN NATURAL ORGANIC FIBER, TOP SIDE ONLY, MINIMUM WEIGHT: 9.3 LB/1000 SF. THE NETTING SHALL CONSIST OF MACHINE DIRECTIONAL STRANDS FORMED FROM TWO INTERTWINED YARNS WITH CROSS DIRECTIONAL STRANDS INTERWOVEN THROUGH THE TWISTED MACHINE STRANDS (LENO WEAVE). THE BLANKET SHALL BE SEWN TOGETHER WITH DEGRADABLE THREAD. MINIMUM WIDTH: 6.7FT. MINIMUM THICKNESS: 0.24 INCH. THE MINIMUM FUNCTIONAL LONGEVITY OF THE EROSION CONTROL MAT SHALL BE 12 MONTHS.

I. WINTER STABILIZATION

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 30 THROUGH MAY 1. IF THE SITE IS NOT STABILIZED BY NOVEMBER 30 THEN THE SITE SHALL BE PROTECTED WITH OVER-WINTER STABILIZATION.

1. PROVIDE STABILIZATION AS FOLLOWS WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS:

   a. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX.

   b. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHOULD BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM OF 4 INCH THICKNESS OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.

2. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

3. ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (e.g. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).

4. STOCKPILES OF SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. MULCHING SHALL BE DONE WITHIN 24 HOURS OF STOCKING, AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. NO SOIL STOCKPILE SHALL BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM ANY WETLAND OR OTHER WATER RESOURCE AREA.

5. NO MORE THAN ONE ACRE OF THE SITE SHALL BE EXPOSED (WITHOUT STABILIZATION) AT ANY ONE TIME. GENERALLY THE EXPOSED AREA SHOULD BE LIMITED TO ONLY THOSE AREAS IN WHICH WORK WILL OCCUR DURING THE FOLLOWING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW OR RAINFALL EVENT.

J. OFF-SITE VEHICLE TRACKING

1. SWEEP ADJACENT PAVED AREAS AND ROADS AS NECESSARY TO KEEP THEM FREE OF SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES.

2. PROVIDE A STABILIZED CONSTRUCTION EXIT AT ALL LOCATIONS USED FOR EXITING THE CONSTRUCTION SITE AS DETAILED ON THE DRAWINGS.

K. HOUSEKEEPING

1. WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER PROVIDED BY THE CONTRACTOR. CONSTRUCTION WASTE MATERIALS SHALL NOT BE BURIED ON SITE.

2. HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER.

3. MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINER AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE. STORE ONLY SUFFICIENT AMOUNTS OF MATERIALS TO COMPLETE THE JOB.

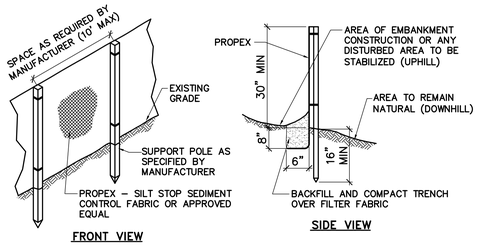
4. DISPOSE OF SURPLUS MATERIALS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, STATE AND FEDERAL CODES.

5. CONSTRUCTION RELATED EQUIPMENT AND VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE LEAKAGE.

L. DUST CONTROL

1. CONTROL DUST WITH PERIODIC WATERING OF THE EXPOSED SOIL SURFACES WITH ADEQUATE WATER TO CONTROL DUST FROM BECOMING AIRBORNE. REPETITIVE TREATMENTS SHALL BE APPLIED AS NEEDED TO CONTROL DUST THROUGHOUT CONSTRUCTION UNTIL AREAS HAVE BEEN STABILIZED.

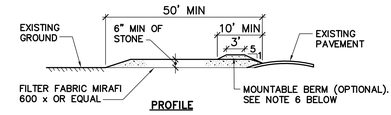
2. OTHER METHODS TO CONTROL DUST SHALL BE ALLOWED WITH APPROVAL BY THE CONTRACT ADMINISTRATOR.



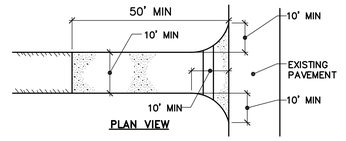
FRONT VIEW — SIDE VIEW

NOTES:
1. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
2. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS/REPLACEMENT SHALL BE MADE IMMEDIATELY.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT.
4. SILT FENCES SHALL BE REMOVED AFTER SATISFACTORY VEGETATIVE COVER IS ESTABLISHED OR DISTURBED AREAS ARE OTHERWISE STABILIZED. PROVIDE PLANTING SOIL, FINISH GRADE, SEED AND MULCH DISTURBED AREAS.

D3 SILT FENCE
NOT TO SCALE



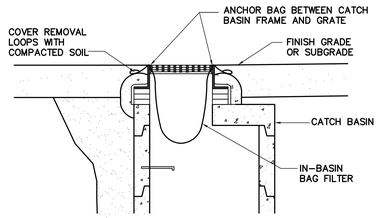
PROFILE



PLAN VIEW

CONSTRUCTION SPECIFICATIONS:
1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 2 TO 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE SEPARATION FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ADJACENT PAVED AREAS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO ADJACENT PAVED AREAS SHALL BE REMOVED IMMEDIATELY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO ADJACENT PAVED AREAS. WHEN WASHING IS REQUIRED, IT SHALL BE PERFORMED ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

C2 STABILIZED CONSTRUCTION EXIT
NOT TO SCALE



NOTES:
1. IN-BASIN BAG FILTERS SHALL BE "DANDY SACK" BY TENCATE OR APPROVED EQUAL. INSTALL ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
2. REMOVE ACCUMULATED SEDIMENTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B2 CATCH BASIN INLET PROTECTION
NOT TO SCALE

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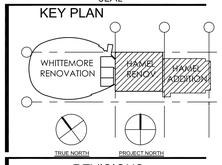

REVISIONS

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ISSUANCES

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01/16/2015	60% DD Progress

SITE DETAILS

C-501

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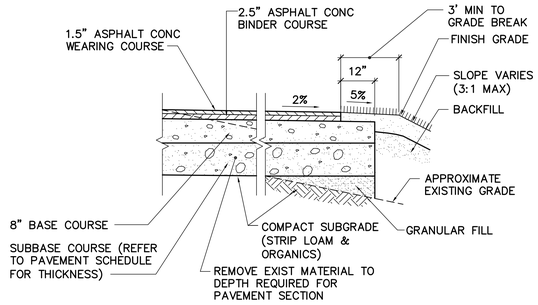
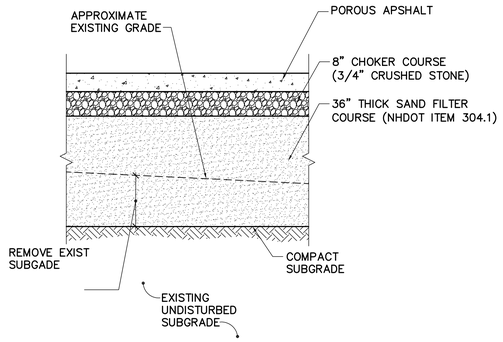
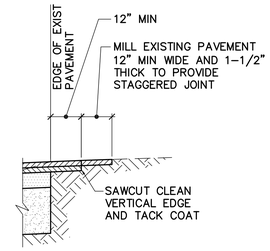


1 C502 **ASPHALT CONCRETE PAVEMENT**
CS101 C502 NOT TO SCALE

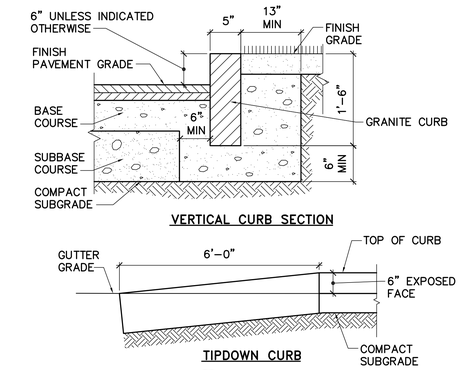


2 C502 **POROUS ASPHALT PAVEMENT**
C502 NOT TO SCALE

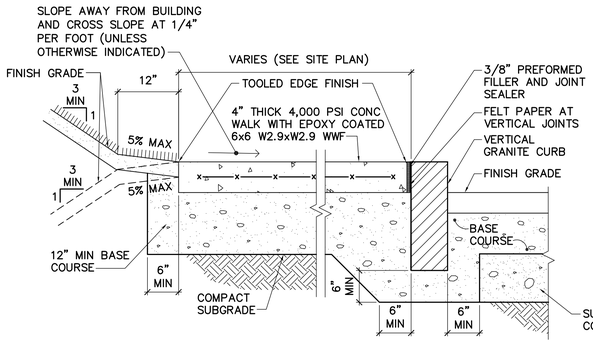


NOTE:
1. PROVIDE STAGGERED JOINT BY MILLING EXISTING PAVEMENT PRIOR TO PLACING WEARING COURSE.

3 C502 **STAGGERED PAVEMENT JOINT**
C502 NOT TO SCALE

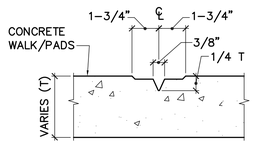


4 C502 **GRANITE CURB**
CS101 C502 NOT TO SCALE

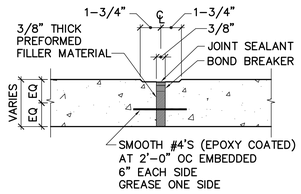


NOTES:
1. PROVIDE MEDIUM TO FINE BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.
2. PROVIDE TOOLED CONTROL JOINTS AT INTERVALS EQUAL TO WIDTH OF SIDEWALK, EQUALLY SPACED, UNLESS INDICATED OTHERWISE, AND AT ALL EDGES. (6 C502)
3. PROVIDE TOOLED EXPANSION JOINTS AT INTERVALS EQUAL TO THE DISTANCE BETWEEN FIVE CONTROL JOINTS, EQUALLY SPACED, UNLESS INDICATED OTHERWISE. (7 C502)
4. PROVIDE 1/2" PREFORMED FILLER AND JOINT SEALER WHERE WALK ABUTS THE BUILDING.

5 C502 **CONCRETE WALK**
CS101 C502 NOT TO SCALE

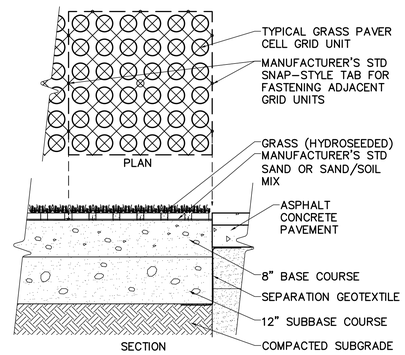


6 C502 **CONTROL JOINT**
C502 NOT TO SCALE

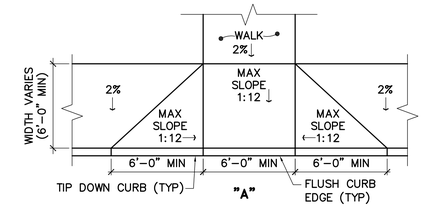


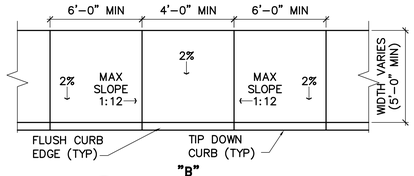
NOTES:
1. TOOLED JOINT SURFACE SHALL BE SMOOTH AND AT A CONSTANT DEPTH.
2. BREAK REINFORCING AT EXPANSION JOINT.

7 C502 **EXPANSION JOINT**
C502 NOT TO SCALE

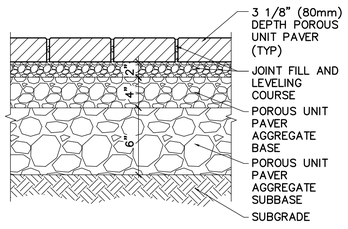


8 C502 **STABILIZED TURF**
C502 NOT TO SCALE

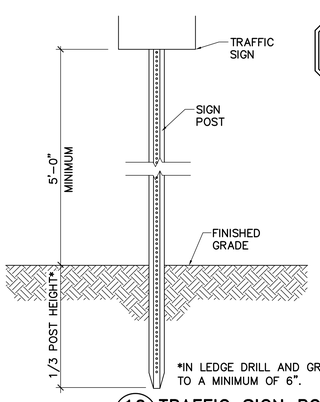




13 C503 **ACCESSIBLE CURB CUT**
CS101 C503 NOT TO SCALE



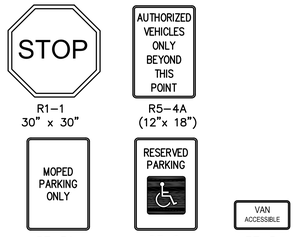
9 C502 **POROUS UNIT PAVER DETAIL**
CS101 C502 NOT TO SCALE

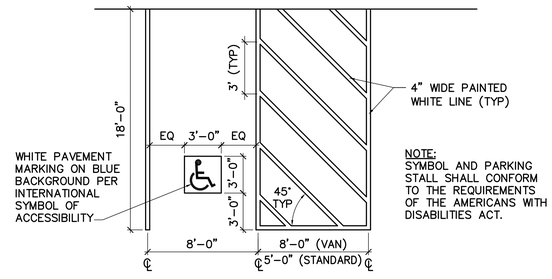


*IN LEDGE DRILL AND GROUT TO A MINIMUM OF 6".

NOTE:
ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), BY USDOT–FHWA, LATEST EDITION, AND NHDOT STANDARD SPECIFICATIONS.

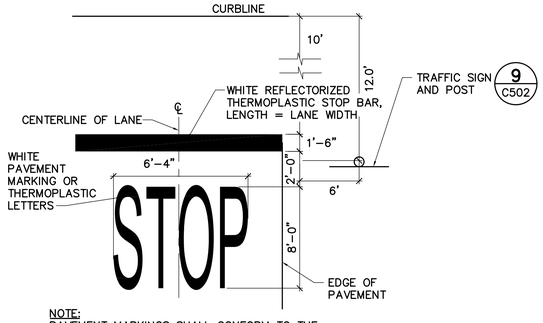
10 C502 **TRAFFIC SIGN POST & SIGN**
CS101 C502 NOT TO SCALE





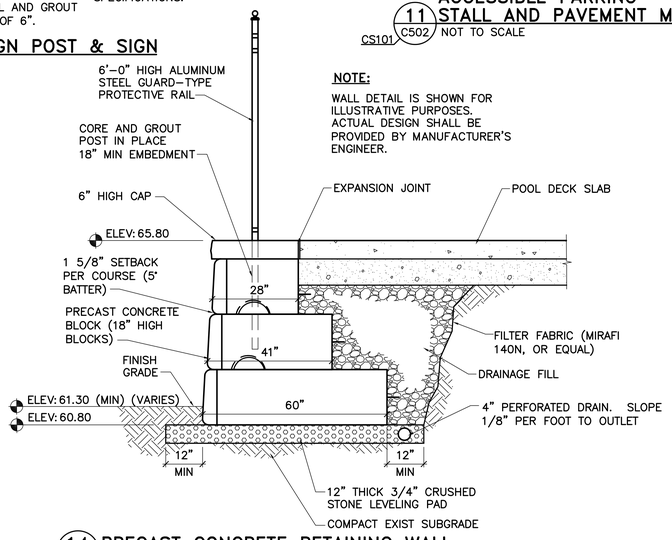
NOTE:
SYMBOL AND PARKING STALL SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

11 C502 **ACCESSIBLE PARKING STALL AND PAVEMENT MARKING**
CS101 C502 NOT TO SCALE



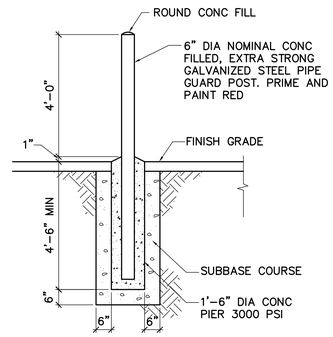
NOTE:
PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), BY USDOT–FHWA, LATEST EDITION, AND NHDOT STANDARD SPECIFICATIONS.

12 C502 **STOP BAR AND LEGEND**
CS101 C502 NOT TO SCALE



NOTE:
WALL DETAIL IS SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL DESIGN SHALL BE PROVIDED BY MANUFACTURER'S ENGINEER.

14 C502 **PRECAST CONCRETE RETAINING WALL**
C502 NOT TO SCALE



15 C502 **BOLLARD**
CS101 C502 NOT TO SCALE

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HG ARCHITECTS
22630 DAVIS DRIVE, SUITE 175 STERLING, VIRGINIA 20164 703.437.6600

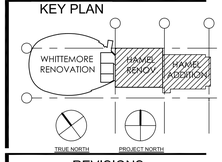
OAK POINT ASSOCIATES

HAMEL RECREATION CENTER RENOVATION AND EXPANSION RECREATION CENTER

PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824
OWNER: UNIVERSITY OF NEW HAMPSHIRE
PROJ NO: 1213

SEAL

KEY PLAN



REVISIONS

MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

SITE DETAILS

C-502

KEYNOTES:

1. DECIDUOUS CANOPY TREE.
2. SHRUB PLANTING.
3. PERENNIAL/GROUNDCOVER PLANTING.
4. TURFGRASS (SEED).
5. BICYCLE RACK.
6. SKATEBOARD RACK (WALL MOUNTED: SEE ARCHITECTURAL DWGS FOR LOCATION)
7. GRANITE BENCH (UNH TYPE 4)
8. STABILIZED TURF.
9. EROSION CONTROL MIX (SEED) DISTURBED SLOPES.
10. LANDSCAPE EDGING.

PETTEE BROOK

BATH HOUSE

POOL

POOL

PETTEE BROOK

EDGEWOOD ROAD

(19) PIERIS X 'BROUWER'S BEAUTY'

(7) HOSTA 'GUACAMOLE'

EXISTING HAMEL RECREATION CENTER
FFE=68.2'±

HAMEL RECREATION CENTER BUILDING ADDITION
FFE=68.2'

(64) MISCANTHUS SINENSIS 'ADAGIO'

(TYP)

ARCTOSTAPHYLOS UVA-URSI VAR. MASSACHUSETTS, 24" O.C.
(2) GINGKO BILOBA 'GOLDEN COLONNADE'

'GREEN SHEEN' @ 9" O.C.

EXISTING FACULTY/STAFF PARKING

EXISTING VISITOR PARKING

(2) BETULA NIGRA 'HERITAGE' (MULTISTEM)

1 LANDSCAPE PLAN
LS101 SCALE: 1"=20'

GRAPHIC SCALE
1"=20' 20' 10' 0 20' 40'

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HG HUGHES GRIFFIN
ARCHITECTS
22630 DAVIS DRIVE, SUITE 175 STERLING, VIRGINIA 20164 703.437.6600

OAK POINT ASSOCIATES

HAMEL RECREATION CENTER RENOVATION AND EXPANSION RECREATION CENTER

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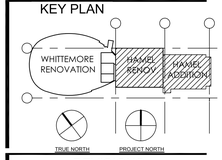
OWNER: UNIVERSITY OF NEW HAMPSHIRE
PROJ NO: 1213

SEAL

KEY PLAN



REVISIONS

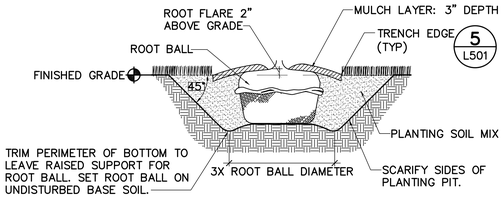
MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

LANDSCAPE PLAN

LS101

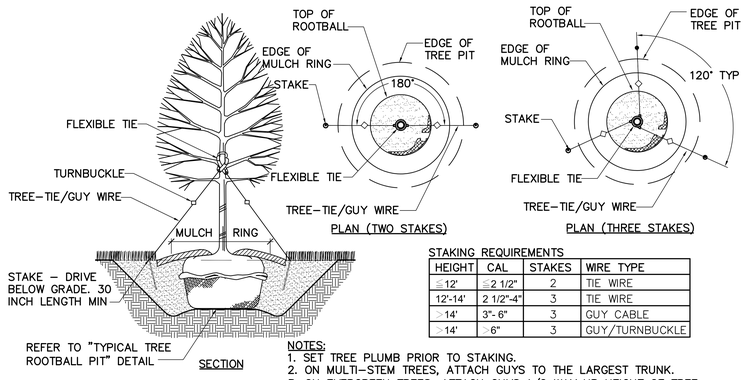


PLANTING PROCEDURE:

1. EXCAVATE CIRCULAR PLANTING PIT 3X THE DIAMETER OF ROOT BALL WITH SIDES SLOPING INWARD AT 45°ANGLE.
2. FILL EXCAVATIONS WITH WATER AND ALLOW TO PERCOLATE. NOTIFY ARCHITECT OF UNEXPECTED WATER SEEPAGE OR RETENTION OF WATER.
3. SET TREE WITH ROOT FLARE 2" ABOVE SURROUNDING FINISHED GRADE. DO NOT BREAK ROOT BALL.
4. REMOVE BURLAP, STRAPS, WIRE CAGE AND OTHER MATERIALS FROM TOP 1/4 OF ROOTBALL.
5. BACK FILL WITH PLANTING SOIL MIX IN LAYERS. TAMP LIGHTLY TO ELIMINATE VOIDS AND AIR POCKETS.
6. WATER THOROUGHLY WHEN ONE-HALF OF PLANTING PIT IS FILLED.
7. PLACE FERTILIZER TABLETS ONE INCH FROM ROOT BALL WHEN ONE-HALF OF PLANTING PIT IS FILLED.
8. PLACE REMAINDER OF FILL AND WATER THOROUGHLY.
9. CONSTRUCT TRENCH EDGE AND MULCH AS SPECIFIED. DO NOT PLACE MULCH WITHIN 3 INCHES OF TRUNK.
10. STABILIZE TREE AS SPECIFIED.

1 TYPICAL TREE ROOT BALL PIT

LS101 L501 NOT TO SCALE



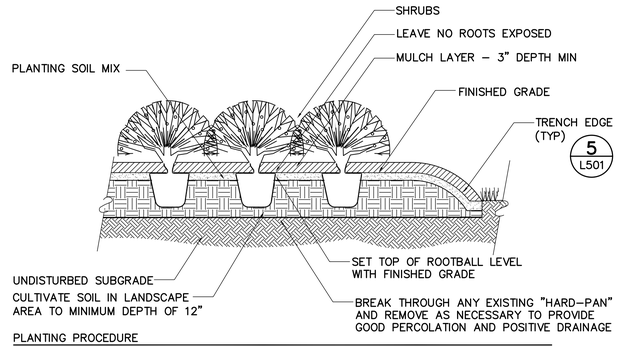
STAKING REQUIREMENTS

HEIGHT	CAL	STAKES	WIRE TYPE
≤12'	≤2 1/2"	2	TIE WIRE
12'-14'	2 1/2"-4"	3	TIE WIRE
>14'	3"- 6"	3	GUY CABLE
>14'	>6"	3	GUY/TURNBUCKLE

NOTES:
1. SET TREE PLUMB PRIOR TO STAKING.
2. ON MULTI-STEM TREES, ATTACH GUYS TO THE LARGEST TRUNK.
3. ON EVERGREEN TREES, ATTACH GUYS 1/2 WAY UP HEIGHT OF TREE.
4. REMOVE STAKING AND GUYING AFTER ONE YEAR.

2 TREE STAKING AND GUYING

LS101 L501 NOT TO SCALE

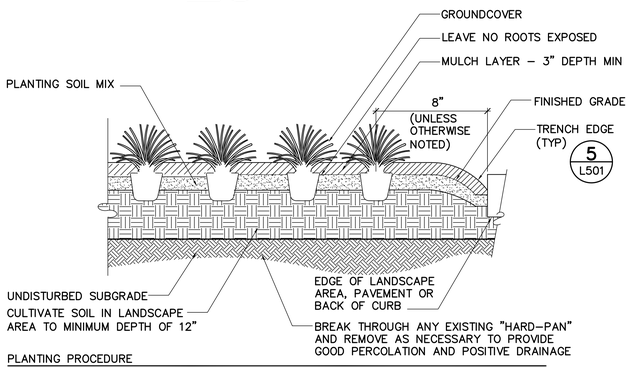


PLANTING PROCEDURE

1. LAY OUT BED AND OUTLINE WITH TRENCH EDGE. PLACE SOIL FROM EDGE WITHIN BED.
2. ROTOTILL BED TO 12" DEPTH. SPREAD 3" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL SOIL MIX INTO TOP OF BED. INSTALL PLANTS AND MULCH. WATER THOROUGHLY.

3 GROUP SHRUB PLANTING

LS101 L501 NOT TO SCALE

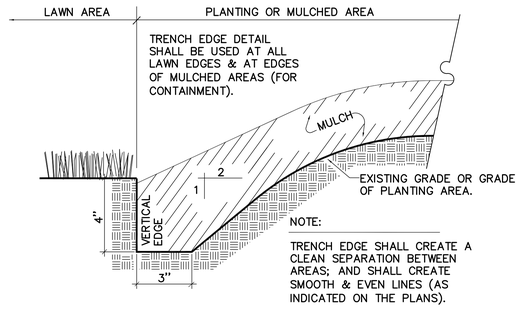


PLANTING PROCEDURE

1. LAY OUT BED AND OUTLINE WITH TRENCH EDGE. PLACE SOIL FROM EDGE WITHIN BED.
2. ROTOTILL BED TO 12" DEPTH. SPREAD 3" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL SOIL MIX INTO TOP OF BED. INSTALL PLANTS AND MULCH. WATER THOROUGHLY.

4 GROUNDCOVER PLANTING

LS101 L501 NOT TO SCALE



NOTE:

TRENCH EDGE SHALL CREATE A CLEAN SEPARATION BETWEEN AREAS; AND SHALL CREATE SMOOTH & EVEN LINES (AS INDICATED ON THE PLANS).

5 TRENCH EDGE- SECTION

LS101 L501 NOT TO SCALE

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6 5 4 3 2 1

D C B A

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OAK POINT ASSOCIATES

HAMEL RECREATION CENTER RENOVATION AND EXPANSION RECREATION CENTER

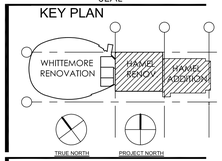
PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824

OWNER: UNIVERSITY OF NEW HAMPSHIRE

PROJ.NO: 1213

SEAL

KEY PLAN



REVISIONS

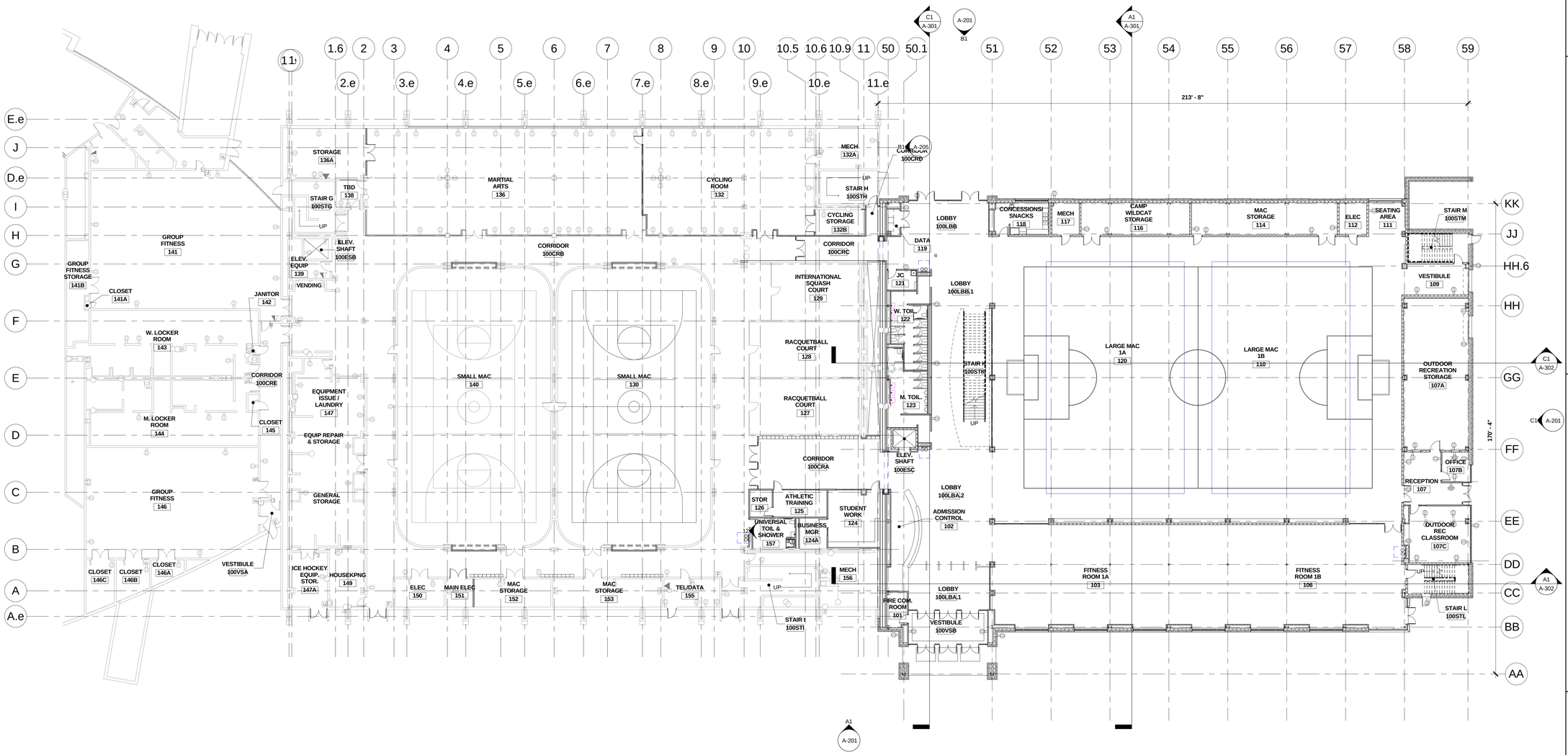
MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/2015	60% DD Progress

LANDSCAPE DETAILS

L-501



A1 OVERALL FLOOR PLAN - 1ST FLOOR
SCALE: 1/16" = 1'-0"

HUGHES GROUP ARCHITECTS
22630 DAVIS DRIVE, SUITE 175
STERLING, VIRGINIA 20164
703.437.6600

HAMEL RECREATION CENTER RENOVATION AND EXPANSION

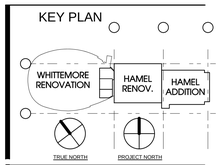
PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824
OWNER: UNIVERSITY OF NEW HAMPSHIRE
PROJ. NO: 1213

SEAL

INTERIM REVIEW ONLY

THESE DOCUMENTS ARE INCOMPLETE AND ARE RELEASED FOR INTERIM REVIEW ONLY AND ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES.

KEY PLAN



REVISIONS

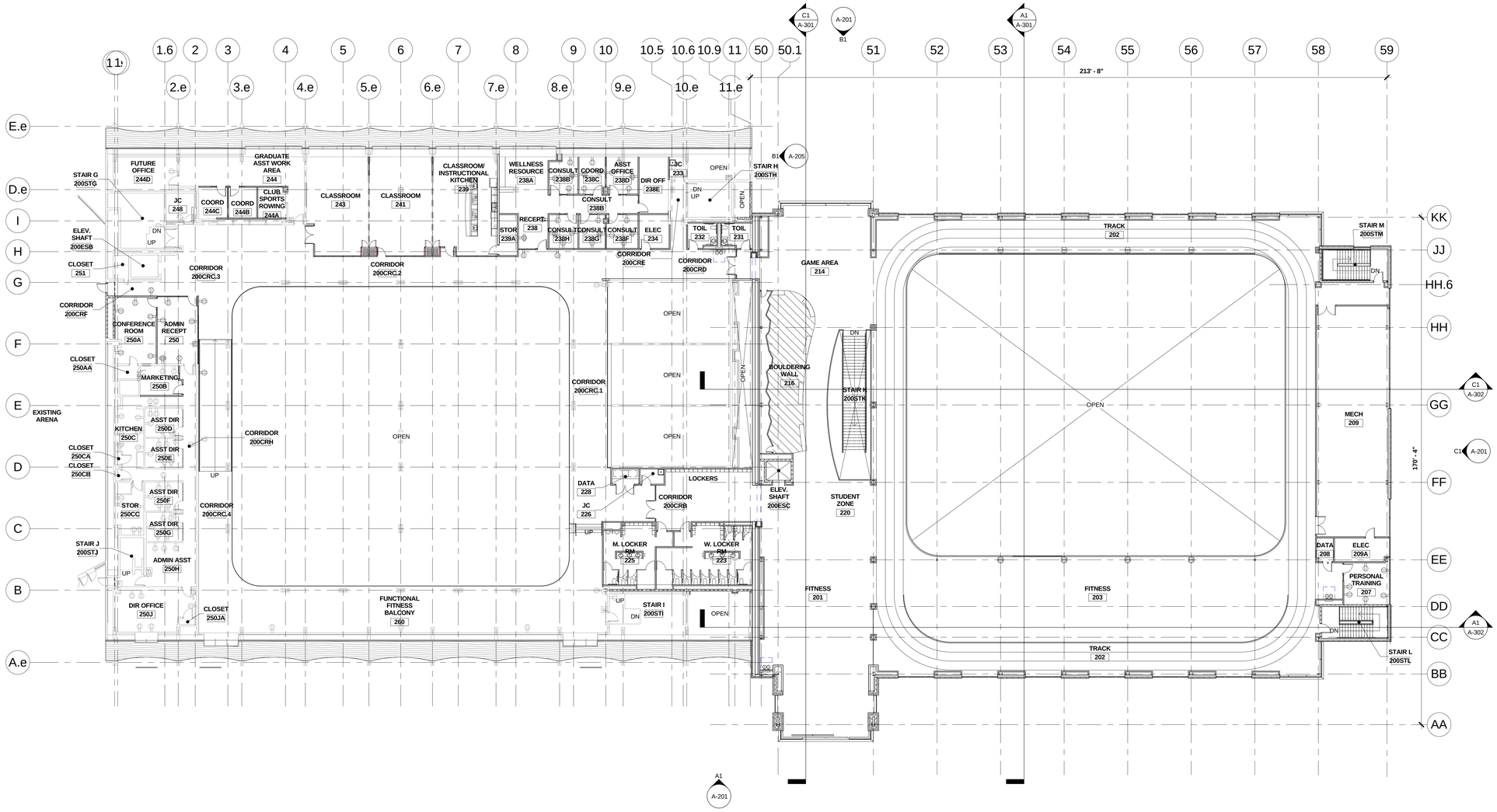
MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/15	60% DD PROGRESS

OVERALL FLOOR PLAN - 1ST FLOOR

A-101



A1 OVERALL FLOOR PLAN - 2ND FLOOR
SCALE: 1/16" = 1'-0"

HUGHES GROUP ARCHITECTS
22630 DAVIS DRIVE, SUITE 175
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HAMEL RECREATION CENTER RENOVATION AND EXPANSION

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PROJ. NO: 1213

SEAL

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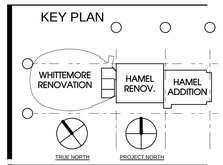
KEY PLAN



REVISIONS

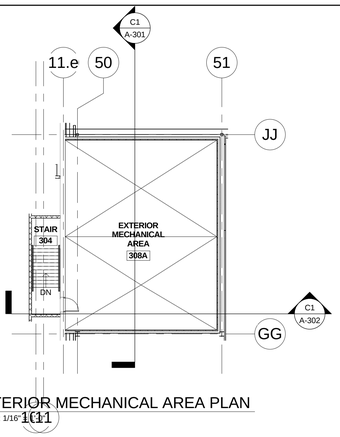
MARK	DATE	ISSUE

ISSUANCES

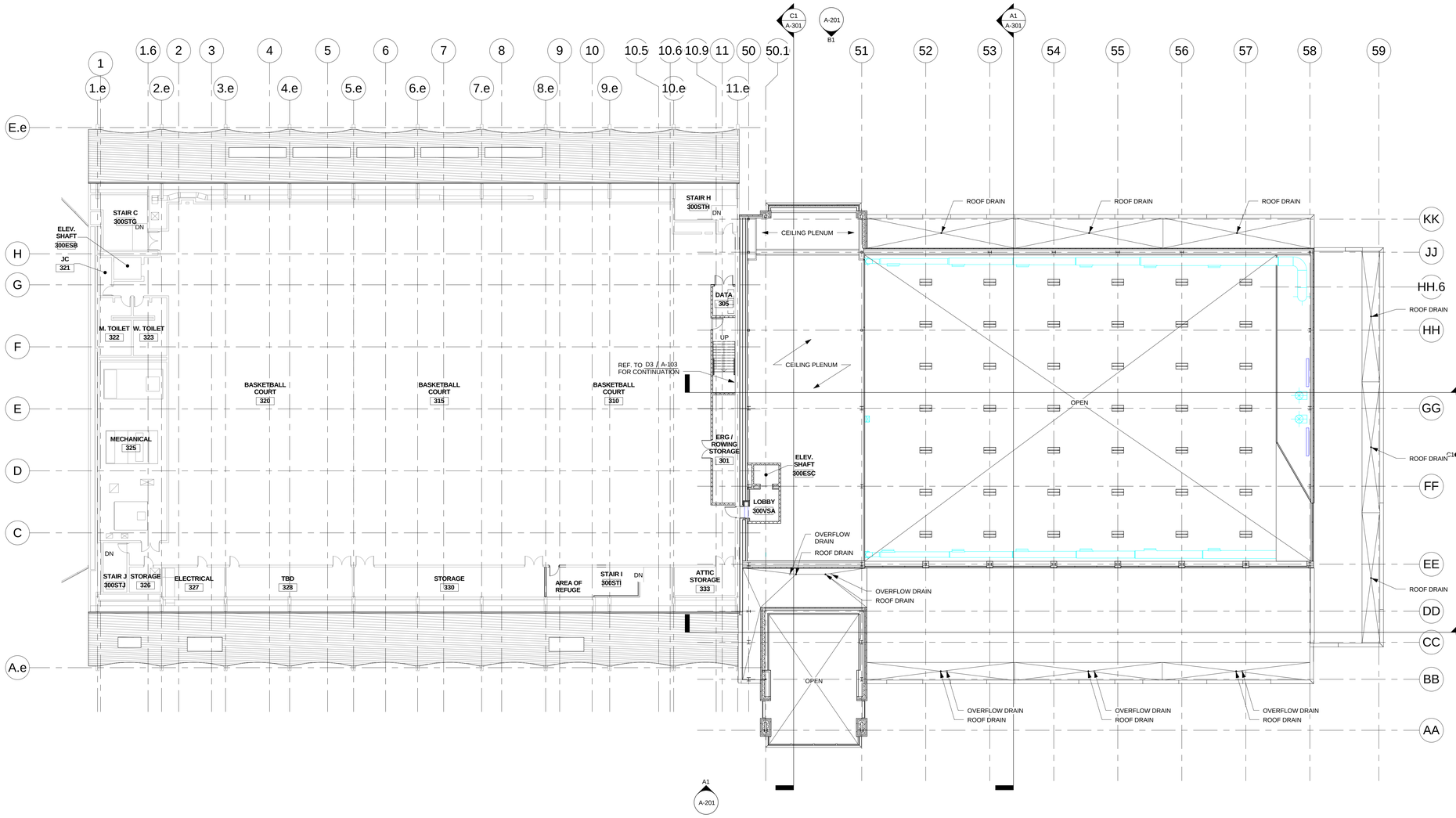
DATE	ISSUANCE
01/16/15	60% DD PROGRESS

OVERALL FLOOR PLAN - 2ND FLOOR

A-102



D3 EXTERIOR MECHANICAL AREA PLAN
SCALE: 1/16" = 1'-0"



A1 OVERALL FLOOR PLAN - 3RD FLOOR
SCALE: 1/16" = 1'-0"

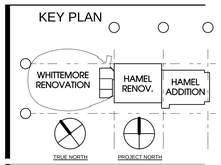
HUGHES GROUP ARCHITECTS
22630 DAVIS DRIVE, SUITE 175
STERLING, VIRGINIA 20164
703.437.6600

HAMEL STUDENT RECREATION CENTER RENOVATION AND EXPANSION

PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824
OWNER: UNIVERSITY OF NEW HAMPSHIRE
PROJ. NO: 1213

SEAL

KEY PLAN



REVISIONS

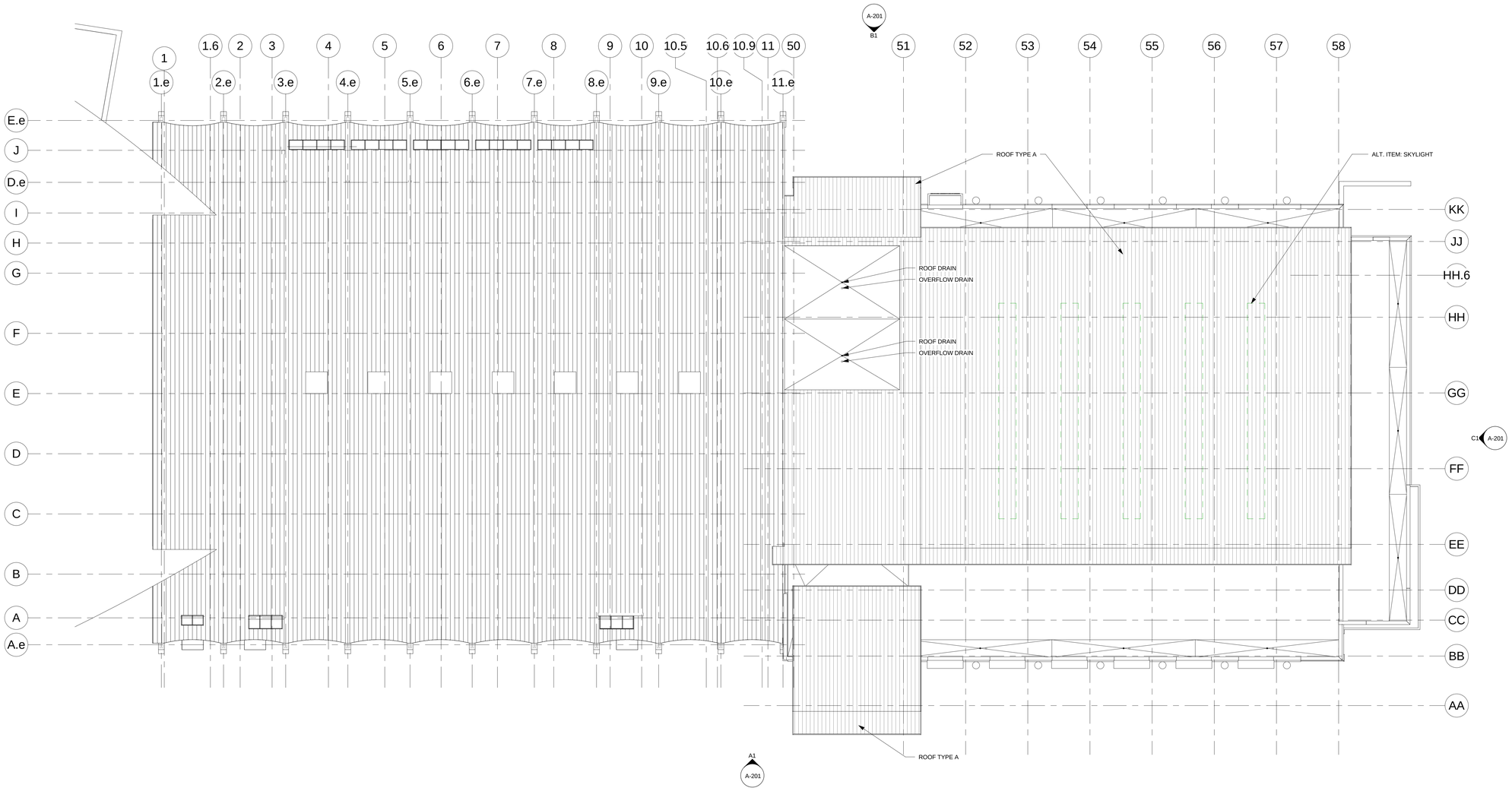
MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/15	EARLY RELEASE

OVERALL FLOOR PLAN - 3RD FLOOR/LOWER ROOF

A-103



1 OVERALL FLOOR PLAN - ROOF
SCALE: 1/16" = 1'-0"

HUGHES GROUP ARCHITECTS
22630 DAVIS DRIVE, SUITE 175
STERLING, VIRGINIA 20164
703.437.6600

HAMEL STUDENT RECREATION CENTER RENOVATION AND EXPANSION

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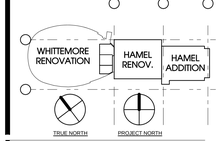
OWNER: UNIVERSITY OF NEW HAMPSHIRE

PROJ. NO: 1213

SEAL

KEY PLAN



REVISIONS

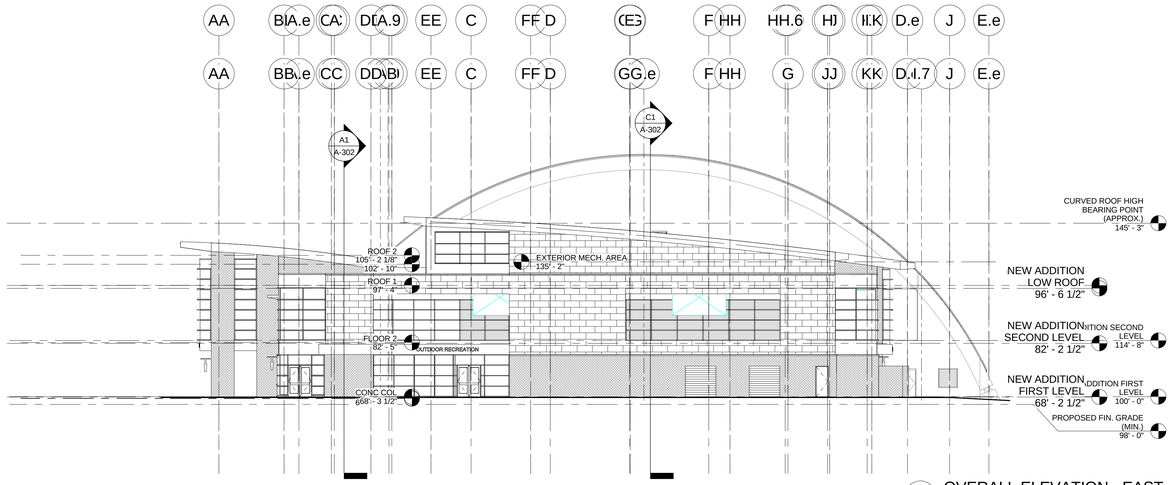
MARK	DATE	ISSUE

ISSUANCES

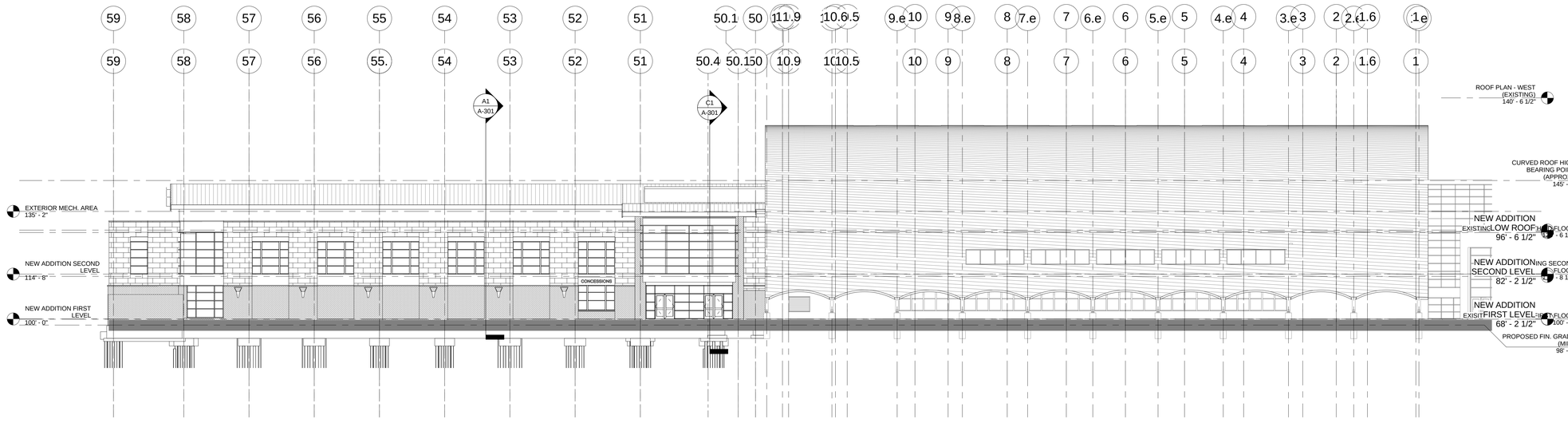
DATE	ISSUANCE
01/16/15	EARLY RELEASE

OVERALL FLOOR PLAN - ROOF

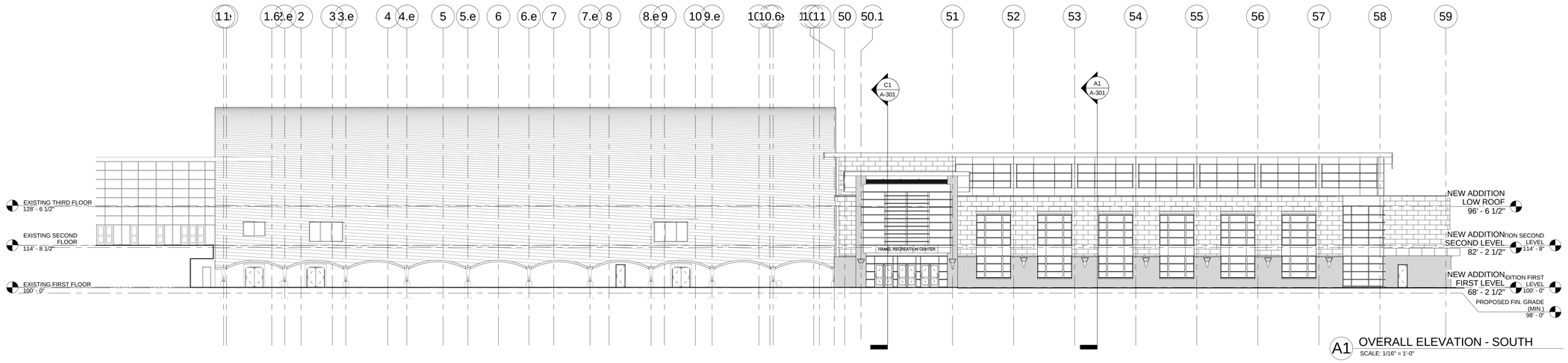
A-104



C1 OVERALL ELEVATION - EAST
SCALE: 1/16" = 1'-0"



B1 OVERALL ELEVATION - NORTH
SCALE: 1/16" = 1'-0"



A1 OVERALL ELEVATION - SOUTH
SCALE: 1/16" = 1'-0"

HUGHES GROUP ARCHITECTS
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STERLING, VIRGINIA 20164
703.437.6600

HAMEL STUDENT RECREATION CENTER RENOVATION AND EXPANSION

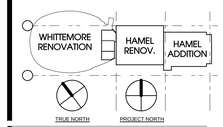
PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824

OWNER: UNIVERSITY OF NEW HAMPSHIRE

PROJ. NO: 1213

SEAL

KEY PLAN



REVISIONS

MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/15	EARLY RELEASE

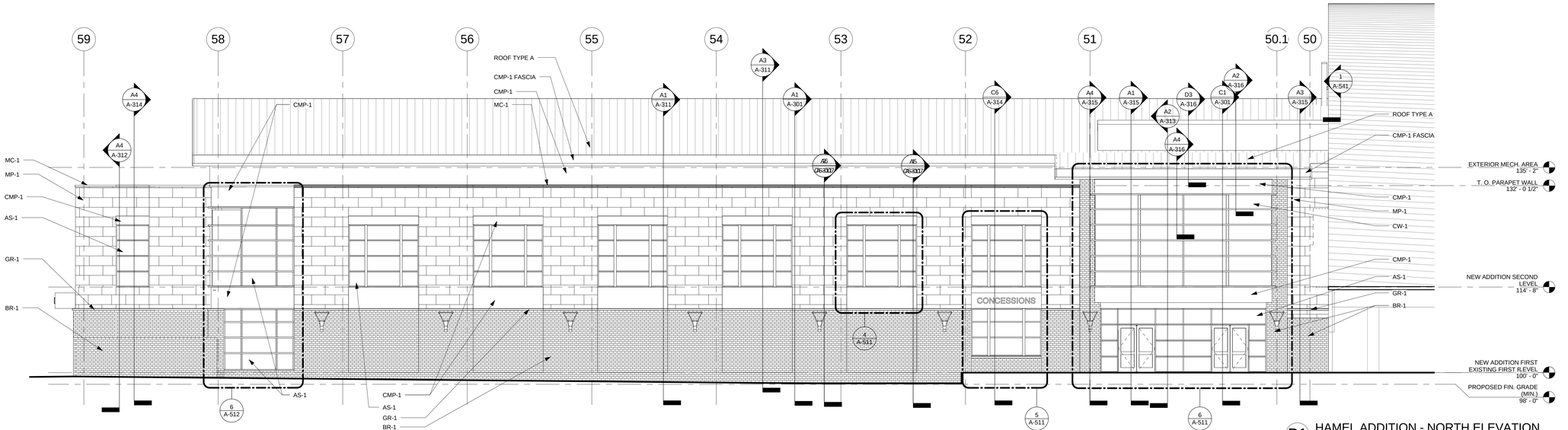
BUILDING ELEVATION - OVERALL

A-201

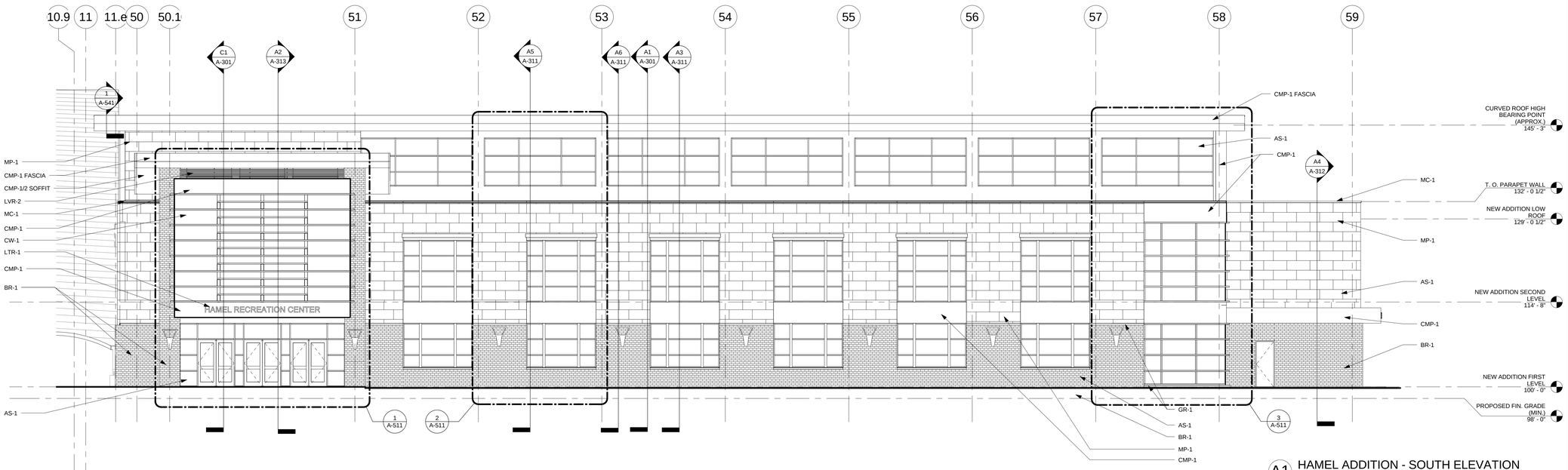
EXTERIOR MATERIALS LEGEND

ABBREV.	MATERIAL	MANUFACTURER (BOD)	#	COLOR	REMARKS
AS-1	ALUMINUM STOREFRONT	KAWNEER	--	TBD	
BR-1	BRICK	TBD	--	TBD	
CD-1	COILING DOOR	TBD	--	TBD	
CMP-1	COMPOSITE METAL PANEL	TBD	TBD	TBD	
CMP-2	COMPOSITE METAL PANEL	TBD	TBD	TBD	
GLS-1	INSULATED GLAZING	TBD	TBD	TBD	
GR-1	GRANITE SILL	TBD	--	TBD	
LTR-1	ALUMINUM PIN MOUNTED LETTER	PREFINISHED AL.	--	TBD	BACKLIT
LVR-1	METAL LOUVER	TBD	TBD	TBD	
LVR-2	METAL LOUVER	TBD	TBD	TBD	
MC-1	METAL COPING	TBD	TBD	TBD	
MP-1	FLAT LOCK METAL PANEL	TBD	TBD	TBD	
MTR-1	MORTAR	TBD	TBD	TBD	

GENERAL NOTES



B1 HAMEL ADDITION - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



A1 HAMEL ADDITION - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

HG
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ARCHITECTS
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STERLING, VIRGINIA 20164
703.437.6600

HAMEL STUDENT RECREATION CENTER RENOVATION AND EXPANSION

PROJECT ADDRESS: 105 MAIN STREET, DURHAM, NEW HAMPSHIRE 03824

OWNER: UNIVERSITY OF NEW HAMPSHIRE

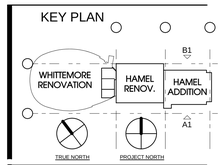
PROJ. NO: 1213

SEAL

INTERIM REVIEW ONLY

THESE DOCUMENTS ARE INCOMPLETE AND ARE RELEASED FOR INTERIM REVIEW ONLY AND ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES.

KEY PLAN



REVISIONS

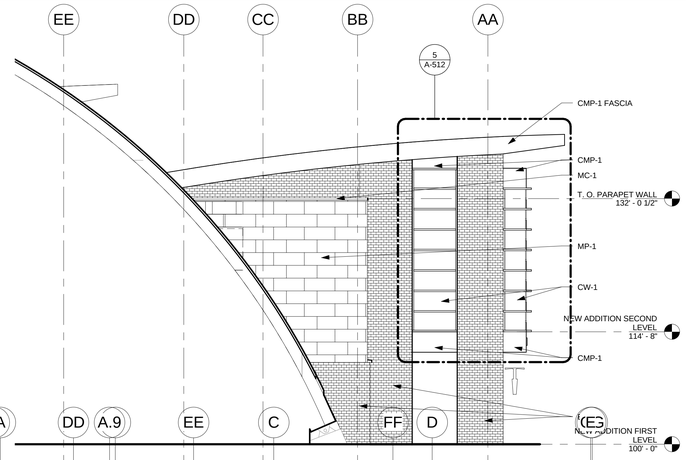
MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/15	60% DD PROGRESS

BUILDING ELEVATIONS - HAMEL ADDITION

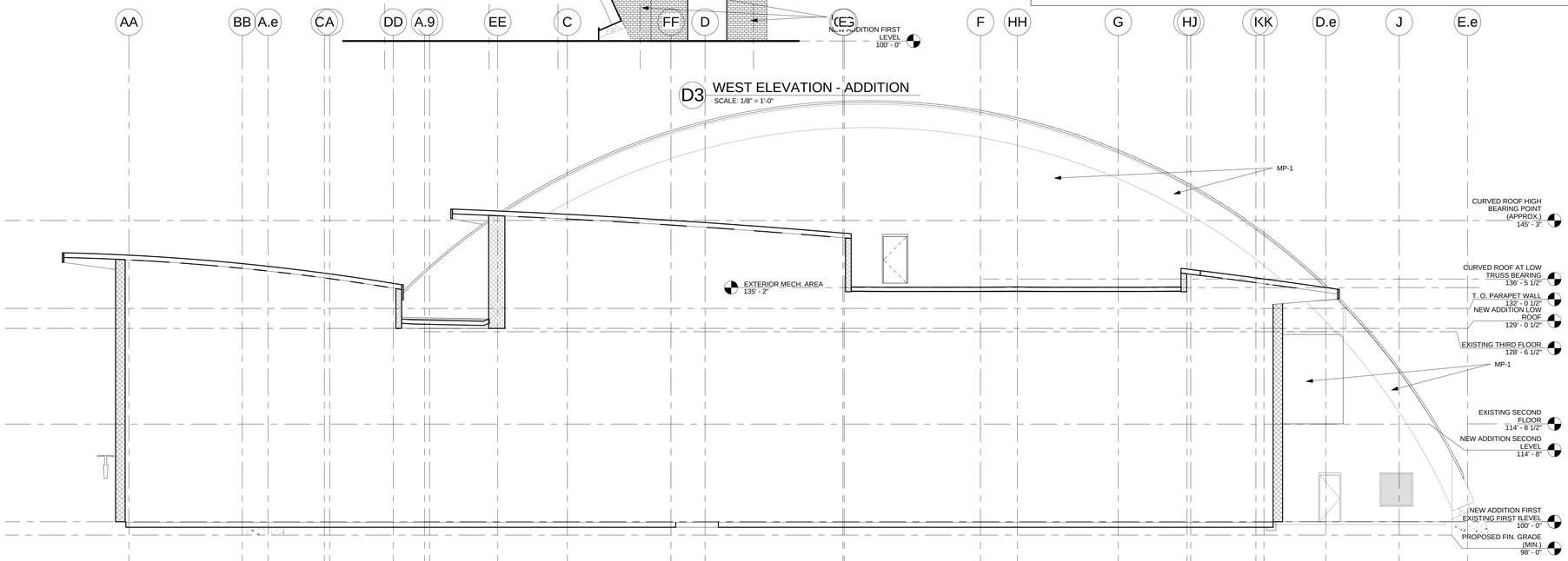
A-204



EXTERIOR MATERIALS LEGEND

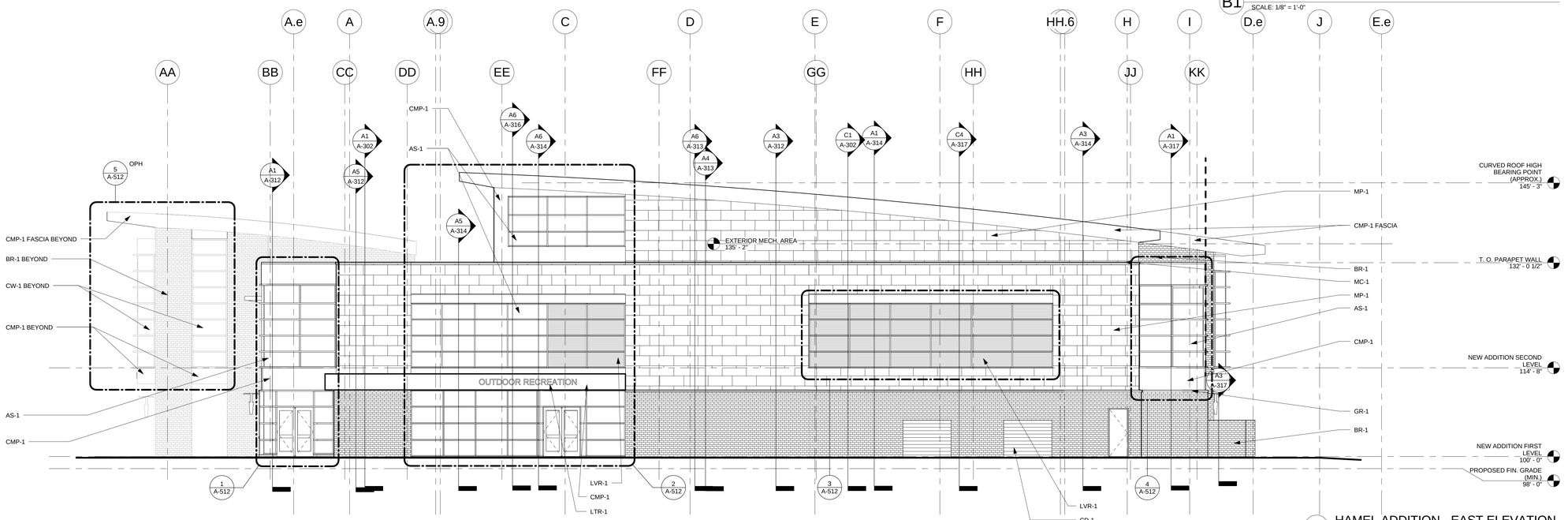
ABBREV.	MATERIAL	MANUFACTURER (BOD)	#	COLOR	REMARKS
AS-1	ALUMINUM STOREFRONT	KAWNEER	--	TBD	
BR-1	BRICK	TBD	--	TBD	
CD-1	COILING DOOR	TBD	--	TBD	
CMP-1	COMPOSITE METAL PANEL	TBD	TBD	TBD	
CMP-2	COMPOSITE METAL PANEL	TBD	TBD	TBD	
GLS-1	INSULATED GLAZING	TBD	TBD	TBD	
GR-1	GRANITE SILL	TBD	--	TBD	
LTR-1	ALUMINUM PIN MOUNTED LETTER	PREFINISHED AL.	--	TBD	
LVR-1	METAL LOUVER	TBD	TBD	TBD	
MC-1	METAL COPING	TBD	TBD	TBD	
MP-1	FLAT LOCK METAL PANEL	TBD	TBD	TBD	
MTR-1	MORTAR	TBD	TBD	TBD	

GENERAL NOTES



D3 WEST ELEVATION - ADDITION
SCALE: 1/8" = 1'-0"

B1 HAMEL RENOVATION - PARTIAL EAST ELEVATION
SCALE: 1/8" = 1'-0"



A1 HAMEL ADDITION - EAST ELEVATION
SCALE: 1/8" = 1'-0"

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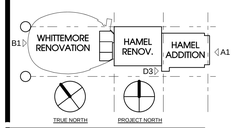
KEY PLAN



REVISIONS

MARK	DATE	ISSUE

ISSUANCES

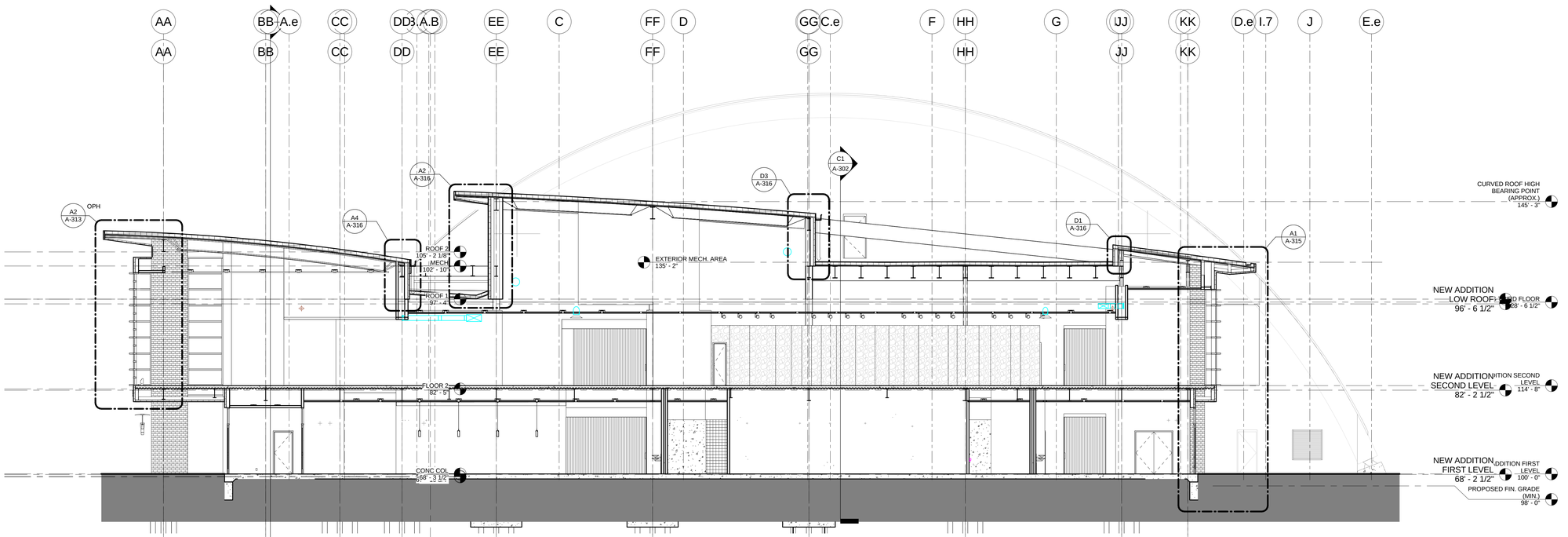
DATE	ISSUANCE
01/16/15	60% DD PROGRESS

BUILDING ELEVATIONS - HAMEL ADDITION

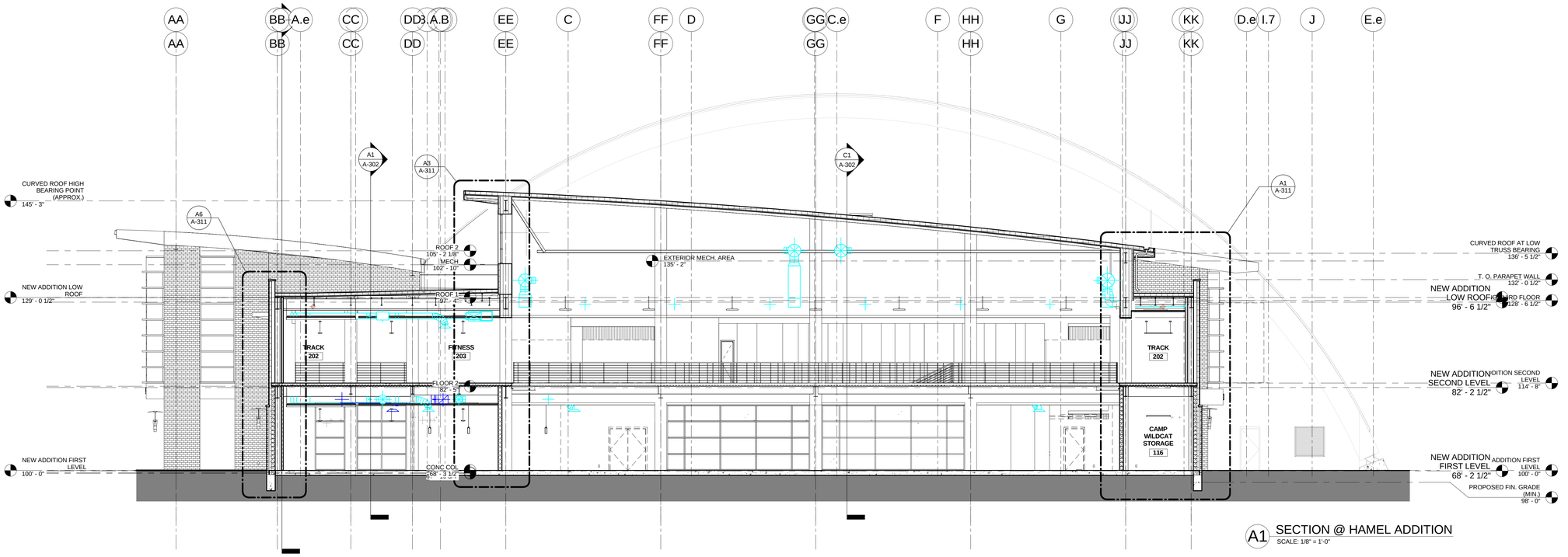
A-205

6 5 4 3 2 1

D C B A



C1 SECTION @ MAIN ENTRY
SCALE: 1/8" = 1'-0"



A1 SECTION @ HAMEL ADDITION
SCALE: 1/8" = 1'-0"

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HAMEL STUDENT RECREATION CENTER
RENOVATION AND EXPANSION

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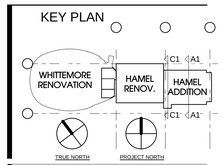
KEY PLAN



REVISIONS

MARK	DATE	ISSUE

ISSUANCES

DATE	ISSUANCE
01/16/15	EARLY RELEASE

BUILDING SECTIONS

A-301