

53-E-14

2008-0140

29 Chestnut St.

Crescent ~~St Apts.~~ Heights

Developers Collaborative

GENERAL NOTES:

- THIS PROJECT IS SUBJECT TO THE TERMS AND CONDITIONS OF ALL REGULATIONS ADMINISTERED BY THE LOCAL UTILITY COMPANIES AND THE CITY OF PORTLAND.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF THE ENTRANCES, EXITS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE POINTS.
- ALL REQUIRED AND NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL SERVICE CONNECTIONS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, THE MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE (1-888-DIGSAFE). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO PROJECT CONTRACT SPECIFICATIONS, AND THE CITY OF PORTLAND TECHNICAL STANDARDS, WHICHEVER IS MORE STRINGENT.
- TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION WAS PROVIDED BY OMEN HASKELL, INC. IN JUNE 2008. BENCHMARK IS LOCATED AT CORNER OF BRAMMALL AND HILL STREETS AS SHOWN IN LOCATION MAP OF BOUNDARY SURVEY.
- FEMA MAP COMMUNITY PANEL NUMBER 2300510013B. THE SITE IS LOCATED IN C ZONE.
- THE PROPERTY SHOWN ON THIS PLAN MAY BE DEVELOPED AND USED ONLY AS DEPICTED IN THIS APPROVED PLAN. ALL ELEMENTS AND FEATURES OF THE PLAN AND ALL THE PROPERTY WHICH APPEARS IN THE RECORD OF THE PLANNING BOARD PROCEEDINGS ARE CONDITIONS OF THE APPROVAL. NO CHANGE FROM THE CONDITIONS OF APPROVALS IS PERMITTED UNLESS AN AMENDED PLAN IS FIRST SUBMITTED TO AND APPROVED BY THE PLANNING AUTHORITY.
- ALL SIGNAGE SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL CURB SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS NOTED ON THE PLANS: GRANITE AND BITUMINOUS CONCRETE CURB SHALL MEET THE REQUIREMENTS OF MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS 609.03 AND 609.04 AND CITY OF PORTLAND TECHNICAL STANDARDS.
- ALL DIMENSIONING UNLESS OTHERWISE NOTED IS TO THE FACE OF CURB OR FACE OF BUILDING.
- THE FACILITY IS SERVICED BY PUBLIC WATER, SEWER, NATURAL GAS AND UNDERGROUND POWER.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE CITY OF PORTLAND PUBLIC WORKS INSPECTION SERVICES DIVISION (874-8300 EXT. 8630), CODE ENFORCEMENT OFFICE AND DEVELOPMENT REVIEW COORDINATOR IN WRITING THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. A PRECONSTRUCTION MEETING MAY BE REQUIRED TO INCLUDE THE PUBLIC WORKS AUTHORITY OR DEVELOPMENT REVIEW COORDINATOR.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
- WARNING SIGNS, MARKERS, BARRICADES OR FLAGMEN MUST BE EMPLOYED ON ADJACENT STREETS AS NECESSARY.
- CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED AND DISPOSED OF IN ACCORDANCE WITH THE CITY OF PORTLAND'S SOLID WASTE ORDINANCE CHAPTER 12. ALL DEMOLITION MATERIAL FROM THE PROJECT SITES SHALL BE TAKEN TO THE RIVERSIDE RECYCLING FACILITY OR AS OTHERWISE DIRECTED PENDING THE RESULTS OF A HAZARDOUS BUILDING MATERIALS SURVEY AS AUTHORIZED AND COORDINATED BY THE OWNER. ALL SALVAGED MATERIAL WITHIN THE PUBLIC R.O.W. (SIDEWALKS, BRICKS, GRANITE CURB) NOT REUSED SHALL BE DISPOSED OF AS DIRECTED BY THE PORTLAND PUBLIC SERVICES DEPARTMENT AT NO EXTRA COST TO THE OWNER.
- ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED AT ALL TIMES DURING CONSTRUCTION TO INSURE INTEGRITY. IF DISTURBED THEY SHALL BE REPLACED BY A SURVEYOR REGISTERED IN THE STATE OF MAINE AT THE CONTRACTOR EXPENSE.
- THE OWNER SHALL BE RESPONSIBLE TO COORDINATE THE PERFORMANCE OF A HAZARDOUS MATERIALS INSPECTION OF THE EXISTING PROPERTIES.
- A STREET OPENING PERMIT MUST BE OBTAINED FROM THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED IN CONFORMANCE TO THE CITY'S RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS.
- CONTRACTOR MUST MAINTAIN THROUGH TRAFFIC ON CRESCENT AND WESCOTT STREETS AT ALL TIMES.
- ALL METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS IDENTIFIED HEREIN SHALL CONFORM TO THE CITY OF PORTLAND CONSTRUCTION AND TECHNICAL STANDARDS AND SPECIFICATIONS AND/OR CURRENT MDT STANDARDS AND SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- SITE WORK FOR BUILDING SHALL INCLUDE GRADING THE BUILDING PAD AREA (DEFINED AS THE BUILDING FOOTPRINT PLUS 5'-0" BEYOND THE EXTERIOR WALL) TO A GRADE 18" BELOW THE GROUND FLOOR FINISH ELEVATION. ALL WORK SHALL INCLUDE EXCAVATION (INCLUDING ROCK REMOVAL AND EXISTING FOUNDATION DEMOLITION) AND BACKFILL OF ALL FOOTINGS AND FOUNDATIONS, INSTALLATION OF PERIMETER FOUNDATION DRAINS, EXCAVATION AND BACKFILL OF ALL UNDERSLAB UTILITIES AND PLACEMENT OF ALL AGGREGATES BELOW THE FLOOR SLAB AND ADJACENT FOUNDATION WALLS IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS.
- RECORD DRAWINGS REQUIRE ALL BURIED UTILITIES INCLUDING, BUT NOT LIMITED TO, BENDS, APPURTENANCES, AND OTHER FEATURES TO BE LOCATED BY COORDINATE INFORMATION TO BE RECORDED BY THE CONTRACTOR AND SUPPLIED TO THE OWNER AT THE END OF THE PROJECT.

ZONING SUMMARY		
ZONING: RESIDENTIAL - 6		
PERMITTED USES:		
RESIDENTIAL:		
• SINGLE-FAMILY, TWO-FAMILY AND MULTI-FAMILY DWELLING UNIT		
• HANDICAPPED FAMILY UNIT		
• SINGLE-FAMILY, SINGLE-FAMILY AND MULTIPLE FAMILY COMPONENT MANUFACTURED HOUSING		
OTHER:		
• LODGING HOUSE		
• CEMETERIES		
• PARKS AND NON-COMMERCIAL RECREATION SPACE		
• ACCESSORY USES INCIDENTAL TO PRINCIPLE USES		
• HOME OCCUPATION		
• MUNICIPAL USES		
• SPECIAL NEEDS INDEPENDENT LIVING UNITS		
• CONVERSION TO BED AND BREAKFAST (UP TO 4 BEDROOM)		
DIMENSIONAL STANDARD	REQUIRED DIMENSION	PROVIDED DIMENSION
MINIMUM LOT SIZE	4,500 SF	13,525.8 SF
MINIMUM AREA PER ROOMING UNIT	250 SF - 44 BEDS @ 250 SF. = 11,000 SF	19,163 SF TOTAL
MINIMUM STREET FRONTAGE	40 FEET	113.07 FEET
MINIMUM FRONT YARD	10 FEET OR THE AVERAGE DEPTH OF THE FRONT YARDS ON EITHER SIDE, AVERAGE DEPTH 1 FOOT	2 FEET
MINIMUM REAR YARD	20 FEET	24 FEET
MINIMUM SIDE YARD	4 STORY-12 FEET, 5 STORY - 15 FEET THE WIDTH OF ONE SIDE YARD MAY BE REDUCED 1 FT. FOR EVERY FOOT THAT THE OTHER SIDE IS CORRESPONDINGLY INCREASED, BUT NO SIDE YARD SHALL BE LESS THAN 10 FEET.	12 FEET
MAXIMUM LOT COVERAGE	40% FOR LOTS CONTAINING 20 OR MORE UNITS, 50% FOR LOTS CONTAINING FEWER THAN 20 UNITS.	36.29%
MINIMUM LOT WIDTH	50 FEET	74 FEET
MAXIMUM STRUCTURE HEIGHT	45 FEET	45 FEET
OPEN SPACE RATIO	20% FOR LOTS CONTAINING FEWER THAN 20 UNITS AND 30% FOR LOTS CONTAINING 20 UNITS OR GREATER.	48.70%

BUILDING SUMMARY	
FOOTPRINT:	4908 S.F.
TOTAL:	19,163 S.F.
# BEDS:	44
# UNITS:	11
# STORES:	4

* COMPLIANCE WITH CODE SECTION 14-139(f)(g) RELATED TO BUILDING HEIGHT HAS BEEN CONFIRMED BY WINTON SCOTT ARCHITECTS UNDER SEPARATE CORRESPONDENCE WITH THE PORTLAND CODE ENFORCEMENT OFFICE.

GRADING & DRAINAGE NOTES:

- ALL STORM DRAIN PIPE SHALL BE SMOOTH BORE INTERIOR PROVIDING A MANNINGS ROUGHNESS COEFFICIENT OF $n = 0.015$ OR LESS, UNLESS A SPECIFIC PIPE MATERIAL IS CALLED FOR ON THE CONTRACT DRAWINGS. PVC PIPING SHALL NOT BE USED IN AREAS OF EXPOSED SUNLIGHT.
- SLOPE PROTECTION IS TO BE PROVIDED PER THE DESIGN PLANS AND MAY INCLUDE RIPRAP, SOD OR MULCH.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EARTHWORK OPERATIONS TO INSURE THAT DISTURBANCE TO THE STEEP SLOPE AREAS ARE MINIMIZED TO THE EXTENT PRACTICABLE.
- THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY OTHERS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-DIGSAFE) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.
- ALL PAVING WITHIN THE PUBLIC R.O.W. SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC R.O.W.
- NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
- CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES AND PHYSICAL FEATURES THAT ARE OUTSIDE THE SCOPE OF WORK. THE CONTRACTOR SHALL MAINTAIN SITE STABILITY DURING CONSTRUCTION TO AVOID EROSION AND SEDIMENT TRANSPORT. CONTRACTOR SHALL RESTORE ALL AREAS TO A FINAL STABILIZED CONDITION AS DIRECTED BY DESIGN DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
- EXTERIOR GRADES AROUND PROPOSED STRUCTURE SHALL BE COORDINATED WITH FINAL BUILDING PLANS AND PROVIDED FOR ALL ACCESS OPENINGS.
- SUBGRADE FILL PLACED BENEATH ALL PERMANENT PAVEMENT, SIDEWALK OR CONCRETE SURFACES EXCLUDING ANY BUILDING AREAS, SHALL BE GRANULAR BORROW. SUBGRADE FILL PLACED BENEATH ALL LANDSCAPE AREAS EXCEPT THOSE ADJACENT TO THE FOUNDATION SYSTEMS MAY BE A COMMON BORROW MATERIAL SUITABLE FOR EMBANKMENT CONSTRUCTION, FREE FROM FROZEN MATERIAL, PERISHABLE RUBBLE, PEAT, ORGANICS, ROCKS LARGER THAN 12" IN DIAMETER, VEGETATION AND OTHER MATERIAL UNSUITABLE FOR ROADWAY AND SUBGRADE CONSTRUCTION. EXCAVATED ON-SITE MATERIALS MAY BE USED FOR FILL PROVIDED THE MATERIAL IS FREE FROM UNSUITABLE MATERIAL DESCRIBED IN THIS NOTE AND UPON APPROVAL OF THE ENGINEER. EXCAVATED ON-SITE MATERIALS MAY NOT BE USED AS COMPACTED STRUCTURAL FILL BENEATH THE BUILDING AREAS OR AS FOUNDATION BACKFILL. GRANULAR BORROW AND COMMON BORROW SHALL COMPLY WITH THE MDT SPECIFICATIONS.
- ALL FILLS SHALL BE PLACED IN LAYERS NOT MORE THAN 12" LOOSE DEPTH AND COMPACTED BY HEAVY COMPACTION EQUIPMENT. MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ASTM 1557, MODIFIED AND FIELD DENSITY ASTM D2922 (NUCLEAR METHODS).

EROSION CONTROL NOTES:

- LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
- PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND THE STABILIZED CONSTRUCTION ENTRANCES.
- SILT BARRIERS SHALL BE INSPECTED, REPAIRED AND CLEANED AS NOTED IN THE EROSION CONTROL NOTES SHOWN ON THE EROSION CONTROL DETAIL SHEET.
- THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCES AS THEY BECOME SATURATED WITH MUD TO ENSURE THAT THEY WORK AS PLANNED DURING CONSTRUCTION AND SHALL KEEP CRESCENT STREET CLEAR OF DIRT AND MUD.
- SILT REMOVED FROM AROUND INLETS AND BEHIND THE SILT FENCES SHALL BE PLACED ON A TOPSOIL STOCKPILE AND MIXED INTO IT FOR LATER USE IN LANDSCAPING OPERATIONS.
- CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST THREE (3) BUT NOT MORE THAN (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 MRS.A 3360-A.
- IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AS SPECIFIED ON PLANS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PUBLISHED BY THE CAMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 1991 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.

UTILITY NOTES:

- ALL REQUIRED UTILITIES SERVING THE PROJECT SHALL BE COORDINATED BETWEEN THE SITE WORK CONTRACTOR AND DIVISION 22/28 CONTRACTOR(S). THE SITE WORK CONTRACTOR SHALL BE RESPONSIBLE TO EXTEND ALL PROPOSED UTILITIES TO WITHIN FIVE (5) FEET OF THE BUILDING TO A LOCATION COORDINATED WITH THE MECHANICAL AND ELECTRICAL SUBCONTRACTORS. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES WITHIN FIVE (5) FEET AND INSIDE THE BUILDING OR UNDER SLAB.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF AND/OR RELOCATION OF OVERHEAD AND UNDERGROUND TELEPHONE WITH FAIRPOINT COMMUNICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUITS, PULL WIRES, TRENCHING AND BACKFILLING NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRIC SERVICE WITH CENTRAL MAINE POWER; THE TELECOMMUNICATIONS SERVICE WITH FAIRPOINT COMMUNICATIONS AND CABLE SERVICE WITH TIME WARNER CABLE. ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS OR UTILITY COMPANY STANDARDS, WHICHEVER IS MORE STRINGENT.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
- THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL, AT NO EXTRA EXPENSE TO THE OWNER.
- A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18 INCH OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER AND SANITARY SEWER CROSSINGS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO THE OBSITE. TEMPORARY SERVICES SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. COORDINATE ALL TEMPORARY SERVICES WITH UTILITY COMPANY, OWNER AND AFFECTED BUSINESSES.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL SERVICES IN CONDUIT TO SITE LIGHTING, COMPLYING WITH APPLICABLE CODES. COORDINATE WITH OWNER AND ARCHITECTURAL AND CMP PLANS.
- ALL SANITARY SERVICES AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT. ALL SANITARY SERVICES AND APPURTENANCES TO BE ABANDONED SHALL BE PROPERLY RECORDED WITH PORTLAND PUBLIC WORKS ENGINEERING DEPARTMENT. A DIGITAL VIDEOTAPE SHALL BE MADE OF SANITARY SEWER SYSTEMS TO BE UTILIZED PRIOR TO CONSTRUCTION; UPSTREAM PIPES INTENDED FOR ABANDONMENT SHALL BE INSPECTED TO VERIFY THAT THEY NO LONGER SERVE OTHER FACILITIES.
- THE DEMOLITION CONTRACTOR SHALL OBTAIN A SEAL DRAIN PERMIT FROM THE DEPARTMENT OF PUBLIC SERVICES PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT, SUCH WORK TO BE PERFORMED UNDER SEPARATE CONTRACT. THE SEWER LATERALS SHALL BE SEALED BY THE DEMOLITION CONTRACTOR OUTSIDE OF THE BUILDINGS AND INSPECTED PRIOR TO THE BUILDING DEMOLITION. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE TO SEAL AND INSPECT THE UNUSED SEWER LATERALS AT THE SEWER MAIN.

SITE & SUBGRADE PREPARATION NOTES

EXCERPT FROM GEOTECHNICAL REPORT 08-0744 DATED OCTOBER 24, 2008 PREPARED BY S.W. COLE ENGINEERING, INC. NOTEWELL: ALL FOUNDATION PREPARATION SHALL BE COORDINATED WITH THE STRUCTURAL DESIGN PLANS PREPARED BY BECKER STRUCTURAL ENGINEERS.

SITE PREPARATION SHOULD BEGIN WITH THE CONSTRUCTION OF AN EROSION CONTROL SYSTEM TO PROTECT ADJACENT DRAINAGE WAYS AND AREAS OUTSIDE THE CONSTRUCTION LIMITS. PROPOSED CONSTRUCTION AREAS SHOULD BE CLEARED AND CRIBBED OF ALL ORGANIC MATTER AND TOPSOIL. AS MUCH VEGETATION AS POSSIBLE SHOULD REMAIN OVER INACTIVE AREAS OF CONSTRUCTION TO LESSEN THE POTENTIAL FOR EROSION AND SITE DISTURBANCE. S.W. COLE RECOMMENDS THAT EXISTING FOUNDATIONS, SLABS AND BURIED UTILITIES BENEATH THE PROPOSED BUILDING FOOTPRINT BE COMPLETELY REMOVED AND BACKFILLED WITH COMPACTED STRUCTURAL BACKFILL.

TERRACE AREA OF BUILDING PAD:

BASED ON THE SUBSURFACE FINDINGS AND S.W. COLE'S UNDERSTANDING OF THE PROPOSED CONSTRUCTION, S.W. COLE ANTICIPATES THAT FOOTINGS ON THE UPPER TERRACE OF THE SITE, GENERALLY WITHIN THE FOOTPRINT OF THE EXISTING BUILDINGS, WILL ENCOUNTER MEDIUM DENSE TO DENSE GLACIAL TILL SOILS OR COMPACTED STRUCTURAL BACKFILL. FOR FOOTINGS IN THIS AREA, S.W. COLE RECOMMENDS THAT EXCAVATION BE COMPLETED WITH A SMOOTH-EDGED BUCKET AND SUBGRADES BE PROTECTED WITH 6 INCHES OF CRUSHED STONE PLACED OVER WOVEN GEOTEXTILE FABRIC SUCH AS MIRAFI 500X.

SLOPING AREA OF BUILDING PAD:

BASED ON THE SUBSURFACE FINDINGS AND S.W. COLE'S UNDERSTANDING OF THE PROPOSED CONSTRUCTION, THEY ANTICIPATE THAT FOOTINGS ON THE SLOPING PORTION OF THE SITE WILL ENCOUNTER SURFICIAL FILLS THAT ARE UNSUITABLE FOR DIRECT FOUNDATION SUPPORT. FOR FOOTING SUBGRADES IN THE SLOPE AREA OF THE BUILDING PAD, S.W. COLE RECOMMENDS REMOVING THE EXISTING FILLS DOWN TO DENSE GLACIAL TILL AND BACKFILLING WITH COMPACTED STRUCTURAL FILL. REMOVING AND BACKFILLING THE UNSUITABLE SOILS WILL REQUIRE DISPLACING SOIL FROM THE SITE AND IMPORTING SUITABLE STRUCTURAL FILL. THE LIMITS OF EXCAVATION FOR UNSUITABLE FILL REMOVAL SHOULD EXTEND 1 FOOT LATERALLY OUTWARD FROM THE BUILDING FOOTPRINT FOR EACH FOOT OF EXCAVATION DEPTH, UNLESS FOOTINGS ARE FOUNDED AT THE ELEVATION OF DENSE GLACIAL TILL.

FOUNDATION DRAINAGE:

WE RECOMMEND THAT FOUNDATION UNDERDRAINS BE PROVIDED AROUND THE EXTERIOR OF PERIMETER FOUNDATIONS AS WELL AS BELOW INTERIOR PORTIONS OF BASEMENT SLABS ON THE UPSLOPE SIDE OF THE PROPOSED BUILDING. THE UNDERDRAINS MAY CONSIST OF 6-INCH DIAMETER HOPE UNDERDRAIN PIPE WITH FILTER SOCK ENVELOPED IN AT LEAST 6 INCHES OF UNDERDRAIN SAND AND BACKFILL WITH FREE-DRAINING SAND AND GRAVEL MEETING THE REQUIREMENTS OF STRUCTURAL FILL AS GIVEN HEREIN. THE UNDERDRAINS SHOULD BE INSTALLED AT FOOTING SUBGRADE ELEVATION AND ROUTED TO A POSITIVE GRAVITY OUTLET. ROOF DRAINS MUST BE ROUTED IN SEPARATE WATERTIGHT PIPES.

ENTRANCE SLABS AND SIDEWALKS:

CLEAN, NON-FROST SUSCEPTIBLE SAND AND GRAVEL MEETING THE REQUIREMENTS OF STRUCTURAL FILL SHALL BE PROVIDED TO A DEPTH OF AT LEAST 4.5 FEET BELOW THE TOP OF ENTRANCE SLABS. THIS THICKNESS OF STRUCTURAL FILL SHOULD EXTEND THE FULL WIDTH OF THE ENTRANCE SLABS AND OUTWARD AT LEAST 4.5 FEET, THEREAFTER TRANSITIONING UP TO BOTTOM ADJACENT SIDEWALK OR PAVEMENT SUBBASE GRAVEL AT A 3H:1V OR FLATTER SLOPE. SEE DETAIL G ON SHEET C-139 FOR FURTHER INFORMATION.

ON-GRADE FLOOR SLABS:

ON-GRADE FLOOR SLABS IN HEATED SPACES MAY BE DESIGNED USING A SUBGRADE REACTION MODULUS OF 150 PCI PROVIDED THE SLAB IS UNDERLAIN BY AT LEAST 12 INCHES OF STRUCTURAL FILL OVERLYING A PROPERLY PREPARED SUBGRADE. ALL EXISTING UNSUITABLE FILLS BELOW THE SLAB IN THE SLOPING AREA OF THE SITE SHOULD BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

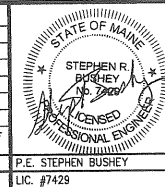
BACKFILL AND COMPACTION:

BASED ON THE SURFACE FINDINGS, THE EXISTING SURFICIAL FILLS ARE FROST SUSCEPTIBLE AND UNSUITABLE FOR REUSE AS COMPACTED STRUCTURAL FILL BENEATH THE BUILDING AREAS AND AS FOUNDATION BACKFILL.

LEGEND

EXISTING	PROPOSED
PROPERTY BOUNDARY	CONTOUR LINE
5/8" IRON ROD TO BE SET	EDGE OF PAVEMENT
IRON PIPE FOUND	UTILITY LINE
MONUMENT FOUND	BUILDING
NOW OR FORMERLY UTILITY POLE	CATCH BASIN
SIGN	STORM DRAIN MANHOLE
EXISTING MANHOLE	STORM DRAIN LINE
CATCH BASIN	FENCE
GRANITE CURB	VERTICAL GRANITE CURB
WATER VALVE	BOLLARD LIGHT
HYDRANT	BRICK SIDEWALK
LIGHT POLE (UNLESS NOTED)	CONCRETE PAD
EXISTING BUILDING	BLUESTONE PAVING STONE
EXISTING CONTOUR	RIPRAP
UNDERGROUND TELEPHONE LINE	SEWER LINE
SEWER LINE	STORM DRAIN LINE
WATER LINE	GAS LINE
EDGE OF PAVEMENT	PVC CLEANOUT
PVC CLEANOUT	SURVEY CONTROL POINT
TIE BACK	RIPRAP
ORNAMENTAL OR WOOD FENCE	EXISTING TREES
BRICK SIDEWALK	BRICK SIDEWALK

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
5	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND	
3	11.18.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT	
CRESCENT HEIGHTS	
SHEET TITLE	
GENERAL NOTES AND LEGEND	
CLIENT	
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	

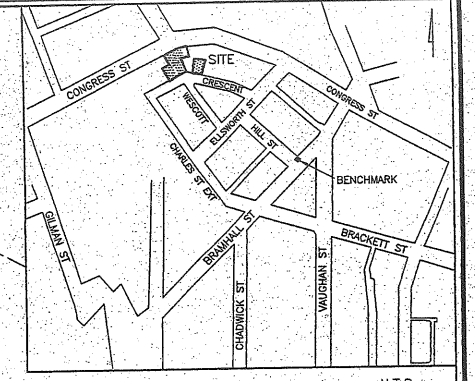
DRAWN		DATE	
SRB	DMB	AS NOTED	SEPT 2008
CHECKED		JOB NO.	
SRB	SRB	2827	
FILE NAME		SHEET	
2827-GEN.		C-2	

DH DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELOCAHOFFMAN.COM

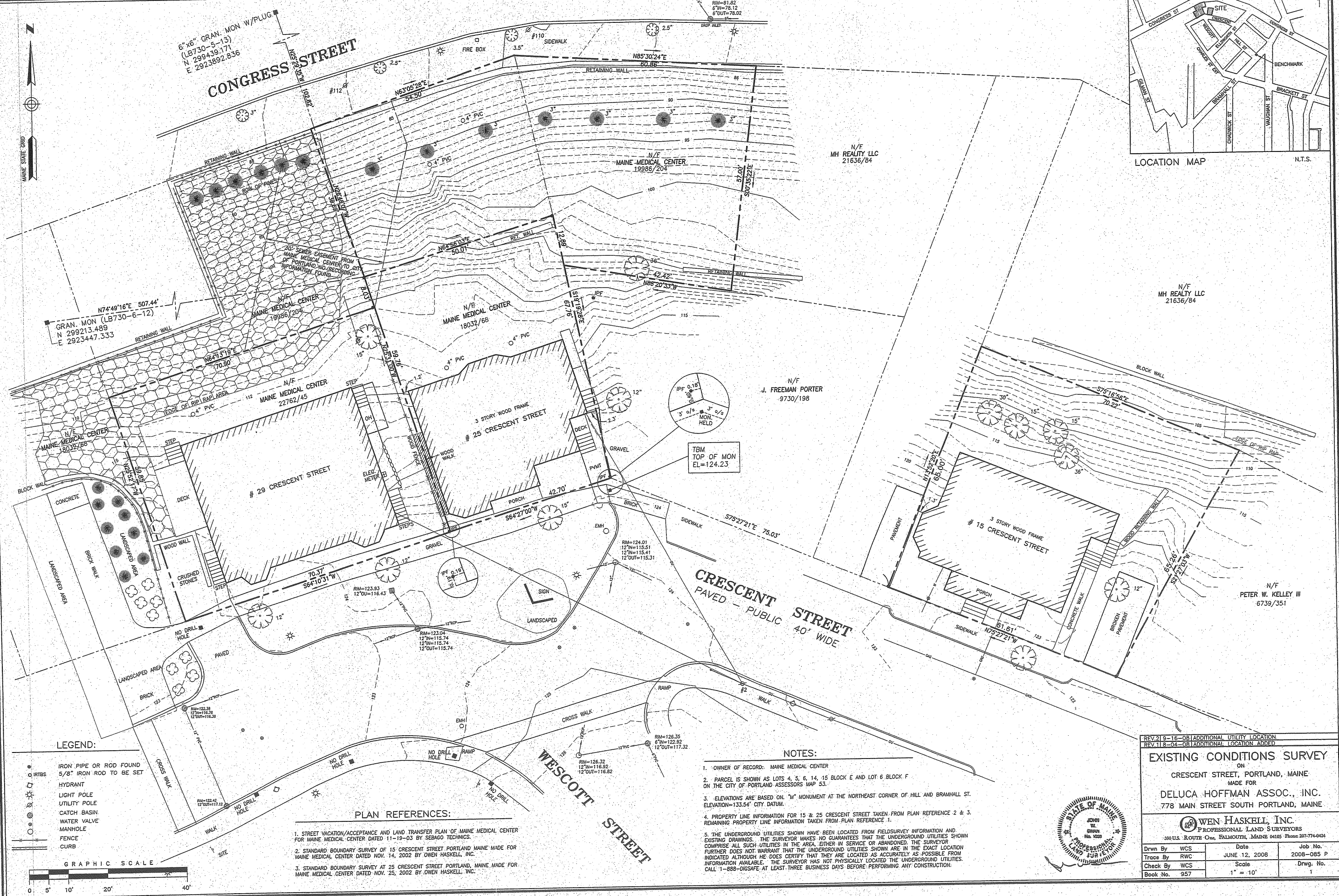


6" x 6" GRAN. MON W/PLUG
(LB730-5-13)
N 299439.171
E 2923892.836

CONGRESS STREET



LOCATION MAP



GRAN. MON (LB730-6-12)
N 299213.489
E 2923447.333

MAINE MEDICAL CENTER
19986/204

N/F MAINE MEDICAL CENTER
18032/68

N/F J. FREEMAN PORTER
9730/198

N/F MH REALTY LLC
21636/84

N/F PETER W. KELLEY III
6739/351

TBM
TOP OF MON
EL=124.23

CRESCENT STREET
PAVED - PUBLIC
40' WIDE

WESCOTT STREET

LEGEND:

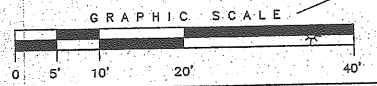
- IRP/RTBS
- 5/8" IRON ROD TO BE SET
- HYDRANT
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE
- MANHOLE
- FENCE
- CURB

PLAN REFERENCES:

1. STREET VACATION/ACCEPTANCE AND LAND TRANSFER PLAN OF MAINE MEDICAL CENTER FOR MAINE MEDICAL CENTER DATED 11-19-03 BY SEBAGO TECHNICS.
2. STANDARD BOUNDARY SURVEY OF 15 CRESCENT STREET PORTLAND MAINE MADE FOR MAINE MEDICAL CENTER DATED NOV. 14, 2002 BY OWEN HASKELL, INC.
3. STANDARD BOUNDARY SURVEY AT 25 CRESCENT STREET PORTLAND, MAINE MADE FOR MAINE MEDICAL CENTER DATED NOV. 25, 2002 BY OWEN HASKELL, INC.

NOTES:

1. OWNER OF RECORD: MAINE MEDICAL CENTER
2. PARCEL IS SHOWN AS LOTS 4, 5, 6, 14, 15 BLOCK E AND LOT 6 BLOCK F ON THE CITY OF PORTLAND ASSESSORS MAP 53.
3. ELEVATIONS ARE BASED ON "M" MONUMENT AT THE NORTHEAST CORNER OF HILL AND BRAMHALL ST. ELEVATION=133.54' CITY DATUM.
4. PROPERTY LINE INFORMATION FOR 15 & 25 CRESCENT STREET TAKEN FROM PLAN REFERENCE 2 & 3. REMAINING PROPERTY LINE INFORMATION TAKEN FROM PLAN REFERENCE 1.
5. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELDSURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.

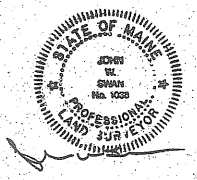


REV 2 9-16-08 ADDITIONAL UTILITY LOCATION
REV 1 8-04-08 ADDITIONAL LOCATION ADDED

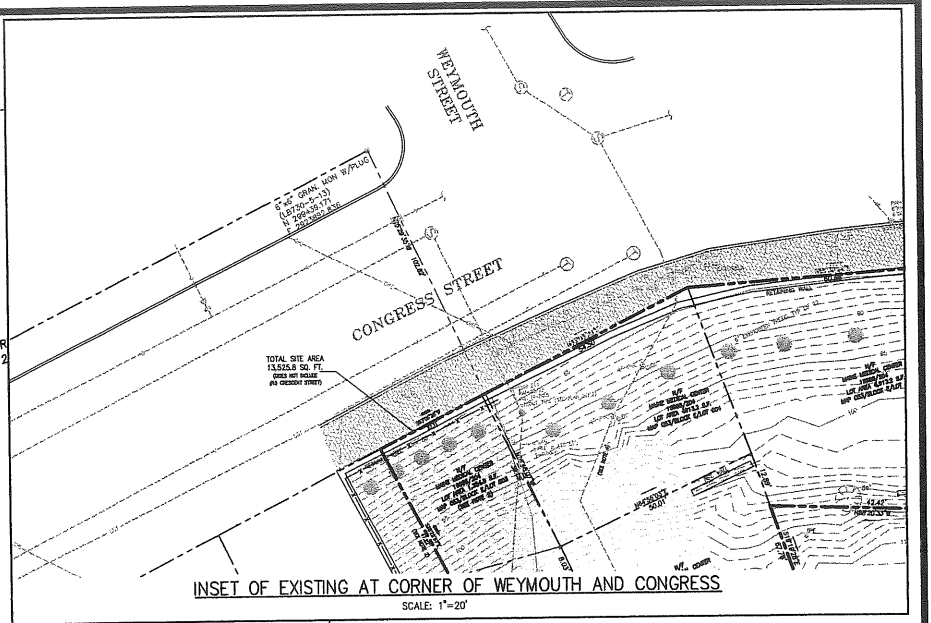
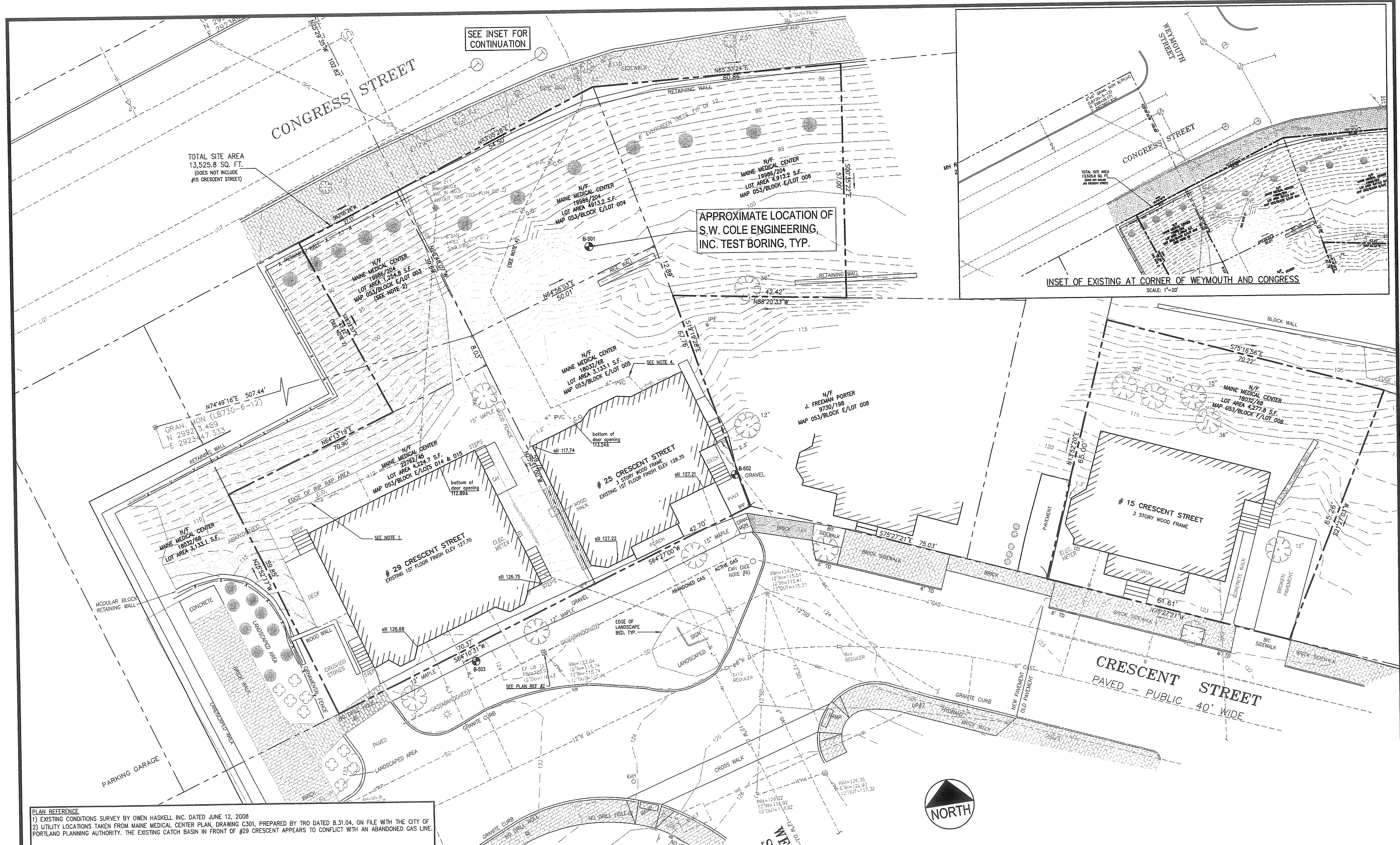
EXISTING CONDITIONS SURVEY
ON
CRESCENT STREET, PORTLAND, MAINE
MADE FOR
DELUCA HOFFMAN ASSOC., INC.
778 MAIN STREET SOUTH PORTLAND, MAINE

OWEN HASKELL, INC.
PROFESSIONAL LAND SURVEYORS
380 U.S. ROUTE ONE, FALMOUTH, MAINE 04105 Phone: 207-774-0424

Drawn By	WCS	Date	JUNE 12, 2008	Job No.	2008-085 P
Trace By	RWC	Scale	1" = 10'	Drwg. No.	1
Check By	WCS				
Book No.	957				

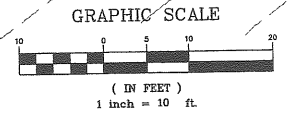


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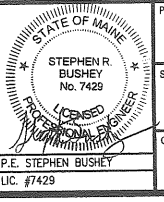


PLAN REFERENCE
 1) EXISTING CONDITIONS SURVEY BY OWEN HASKELL INC. DATED JUNE 12, 2008
 2) PORTION OF LOT DESCRIBED IN CCRD BOOK 19996/ PAGE 204 CONVEYED TO CRESCENT HEIGHTS LLC BY MMC.
 3) THE EXACT LOCATION OF UNDERGROUND POWER/TELEPHONE/CABLE INTO THE EXISTING BUILDINGS IS UNKNOWN. THE ENGINEER HAS NOT ENTERED THE BUILDINGS TO DETERMINE THIS INFORMATION.
 4) SANITARY SEWER LOCATION FOR #25 TAKEN FROM CITY SEWER CARD RECORDS
 5) NO CITY SEWER RECORD AVAILABLE FOR #15 CRESCENT ST. LOCATION OF SEWER LATERAL BASED ON DIMENSIONS PROVIDED BY CITY OF PORTLAND VIDEO INSPECTION LOG REPORT DATED 7.13.99.
 6) THIS STRUCTURE IS A 4" DIA. PRECAST VAULT WITH COMMUNICATIONS WIRES OF UNKNOWN ORIGIN. IT IS UNKNOWN IF THESE FACILITIES ARE ACTIVE OR ABANDONED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND MAINTAIN THESE FACILITIES DURING CONSTRUCTION AT NO EXTRA EXPENSE TO THE OWNER.
 7) THE CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID AND TAKE NOTE THAT CERTAIN FEATURES MAY NOT BE REFLECTED ON THIS PLAN. THIS PLAN DOES NOT REFLECT CERTAIN REMARKS BY OTHERS WHICH MAY BE PERFORMED PRIOR TO THE START OF BUILDING CONSTRUCTION.

NOTES:
 1) PORTION OF FORMER SANITARY SEWER FROM MAINE MEDICAL CENTER DISCONTINUED AS PART OF PARKING GARAGE PROJECT
 2) PORTION OF LOT DESCRIBED IN CCRD BOOK 19996/ PAGE 204 CONVEYED TO CRESCENT HEIGHTS LLC BY MMC.
 3) THE EXACT LOCATION OF UNDERGROUND POWER/TELEPHONE/CABLE INTO THE EXISTING BUILDINGS IS UNKNOWN. THE ENGINEER HAS NOT ENTERED THE BUILDINGS TO DETERMINE THIS INFORMATION.
 4) SANITARY SEWER LOCATION FOR #25 TAKEN FROM CITY SEWER CARD RECORDS
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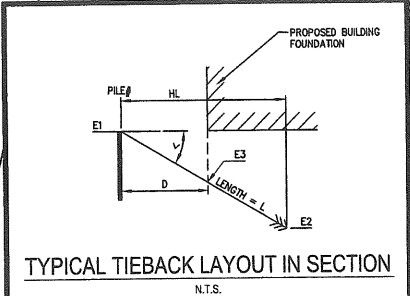
REV	DATE	DESCRIPTION
7	03.17.09	100% PLANS - RELEASED FOR CM REVIEW
6	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND
5	12.19.08	RESUBMITTED TO CITY OF PORTLAND
4	11.18.08	SUBMITTED TO CITY OF PORTLAND
3	10.21.08	SUBMITTED TO CITY OF PORTLAND
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT
CRESCENT HEIGHTS
 SHEET TITLE
EXISTING CONDITIONS
 CLIENT
 CRESCENT HEIGHTS LLC IN ASSOCIATION WITH
 WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE B
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELUCAHOFFMAN.COM
 DRAWN: DMB | DATE: SEPT 2008
 DESIGNED: SRB | SCALE: AS NOTED
 CHECKED: SRB | JOB NO: 2827
 FILE NAME: 2827-SP
 SHEET
C-4

CONGRESS STREET

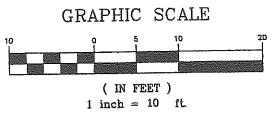


MAINE MEDICAL CENTER TIEBACK INFORMATION
(SEE INSET DIAGRAM ABOVE FOR EXPLANATION OF DIMENSIONS BELOW)

Pile #	L Anchor Length (FT)	E1 Highest Tieback Elevation (FT) at Wall	Drillhole Angle	HL Horizontal Length (FT)	E2 Final Elevation (FT) at end of highest Tieback	D Distance to proposed Foundation (FT)	E3 Approximate highest Tieback elevation at foundation (FT)
29	69	118	15	66.6471	100.14	39	107.91
30	69	118	15	66.65	100.14	39	107.91
31	65	116	15	62.78	99.18	39	105.91
32	65	116	15	62.78	99.18	39	105.91
33	77	110	13	75.03	92.68	39	99.91
34	77	110	13	75.03	92.68		
35	52	105	17	49.73	89.80		
36	54	98	16	51.91	83.12		
37	54	98	15	52.16	84.02		
38	54	98	15	52.16	84.02		
39	54	98	13	52.62	85.86		
40	54	98	15	52.16	84.02		
41	54	98	15	52.16	84.02	29	90.4942
42	54	98	15	52.16	84.02	29	90.4942
43	54	98	15	52.16	84.02	29	90.4942
44	54	98	15	52.16	84.02	33	89.4589
45	44	90	15	42.50	78.61	25.5	83.4001
46	37	87	15	35.74	77.42		

PROPOSED BUILDING
GROUND FLOOR (LEVEL 1 - BASEMENT) FFE 114.5
FIRST FLOOR (STREET LEVEL) FFE 125.0

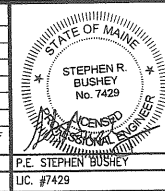
INFORMATIONAL PLAN ONLY



- NOTES:
- 1) SIMPSON GUMPERTZ & HEGER (SGH) WERE THE ENGINEERS OF RECORD FOR MAINE MEDICAL CENTER'S 7 STORY PARKING GARAGE AND WERE RESPONSIBLE ALONG WITH SCHNABEL FOUNDATION SYSTEMS, INC. FOR THE RETAINING WALL DESIGN AND WIRE TIEBACKS.
 - 2) TIEBACK INFORMATION WAS PROVIDED BY S.W. COLE ENGINEERING INC. AND IS BASED ON THE TIEBACK PERFORMANCE TEST REPORTS. NO INFORMATION ON TIEBACKS #27, #28, AND #47 WAS PROVIDED.
 - 3) THE PROPOSED STRUCTURAL FOUNDATION DESIGN SHALL BE COORDINATED WITH THE EXISTING TIEBACK LOCATIONS. NO EXCAVATION ACTIVITY SHALL OCCUR WITHIN 10 FEET VERTICAL OR HORIZONTAL OF EXISTING TIEBACKS WITHOUT PRIOR AUTHORIZATION FROM THE SGH AND MMC REPRESENTATIVES.
 - 4) SEE FOUNDATION PLAN 'S1' BY BECKER STRUCTURAL ENGINEERS, INC. FOR ALL FOUNDATION FOOTING ELEVATIONS.
 - 5) SGH HAS BEEN RETAINED BY THE OWNER UNDER SEPARATE CONTRACT TO PROVIDE ENGINEERING SUPPORT AND DIRECTION WITH RESPECT TO THE EXISTING RETAINING WALL TIE-BACK SYSTEM. ALL INFORMATION ON THIS PLAN IS INTENDED FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO SUPPLANT INFORMATION OR PLANS PROVIDED BY SGH.



REV	DATE	DESCRIPTION
7	04.02.09	RELEASED FOR BIDDING
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT
CRESCENT HEIGHTS

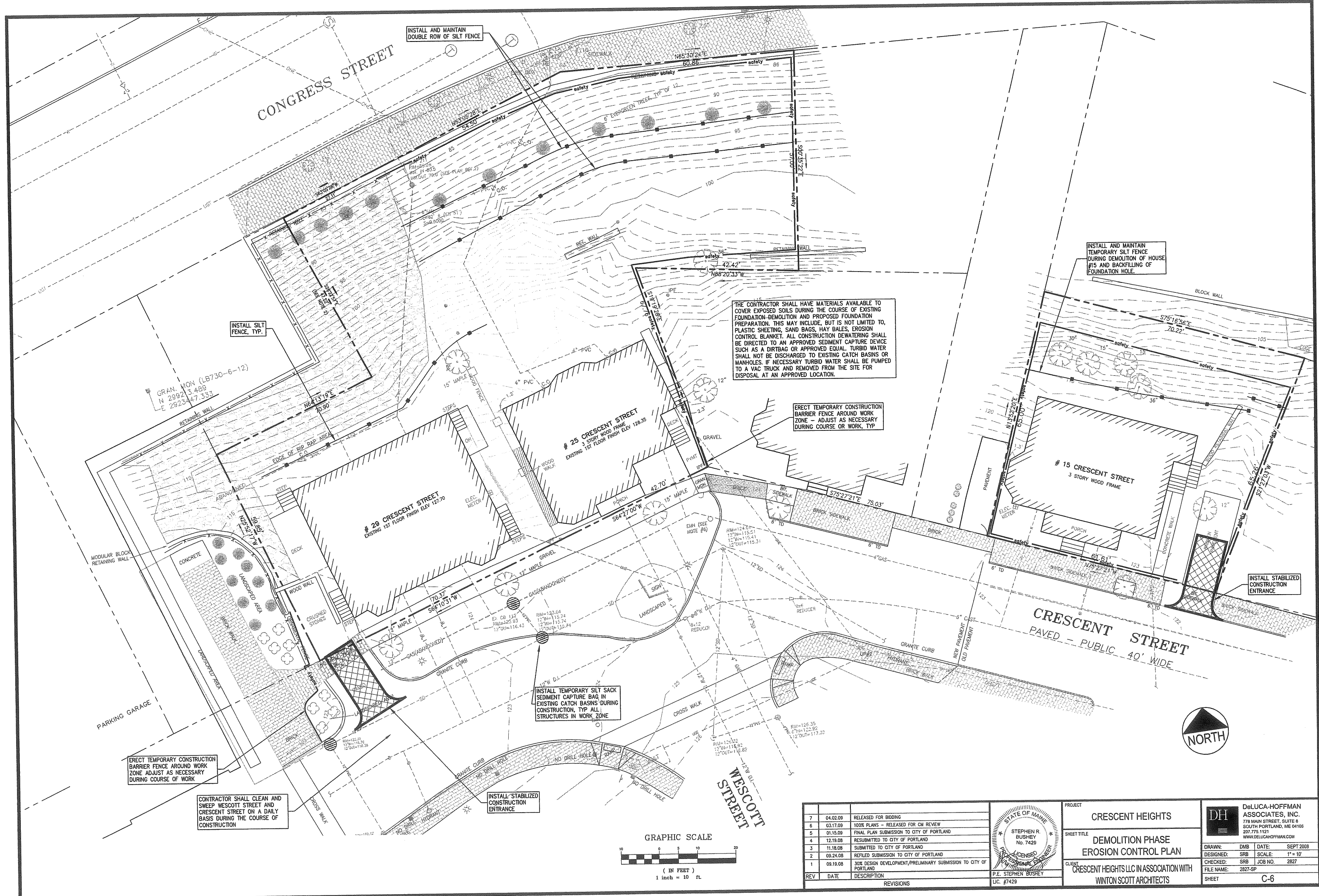
SHEET TITLE
MMC RETAINING WALL TIEBACKS

CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: 1" = 10'
CHECKED: SRB JOB NO: 2827
FILE NAME: 2827-SP
SHEET C-5

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INSTALL SILT FENCE, TYP.

INSTALL AND MAINTAIN DOUBLE ROW OF SILT FENCE

THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE TO COVER EXPOSED SOILS DURING THE COURSE OF EXISTING FOUNDATION DEMOLITION AND PROPOSED FOUNDATION PREPARATION. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, PLASTIC SHEETING, SAND BAGS, HAY BALES, EROSION CONTROL BLANKET. ALL CONSTRUCTION Dewatering SHALL BE DIRECTED TO AN APPROVED SEDIMENT CAPTURE DEVICE SUCH AS A DIRTBAG OR APPROVED EQUAL. TURBID WATER SHALL NOT BE DISCHARGED TO EXISTING CATCH BASINS OR MANHOLES. IF NECESSARY TURBID WATER SHALL BE PUMPED TO A VAC TRUCK AND REMOVED FROM THE SITE FOR DISPOSAL AT AN APPROVED LOCATION.

ERECT TEMPORARY CONSTRUCTION BARRIER FENCE AROUND WORK ZONE - ADJUST AS NECESSARY DURING COURSE OF WORK, TYP

INSTALL AND MAINTAIN TEMPORARY SILT FENCE DURING DEMOLITION OF HOUSE #15 AND BACKFILLING OF FOUNDATION HOLE.

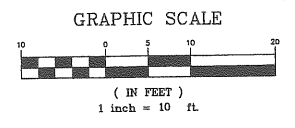
INSTALL STABILIZED CONSTRUCTION ENTRANCE

ERECT TEMPORARY CONSTRUCTION BARRIER FENCE AROUND WORK ZONE. ADJUST AS NECESSARY DURING COURSE OF WORK.

CONTRACTOR SHALL CLEAN AND SWEEP WESCOTT STREET AND CRESCENT STREET ON A DAILY BASIS DURING THE COURSE OF CONSTRUCTION

INSTALL STABILIZED CONSTRUCTION ENTRANCE

INSTALL TEMPORARY SILT SACK SEDIMENT CAPTURE BAG IN EXISTING CATCH BASINS DURING CONSTRUCTION, TYP ALL STRUCTURES IN WORK ZONE



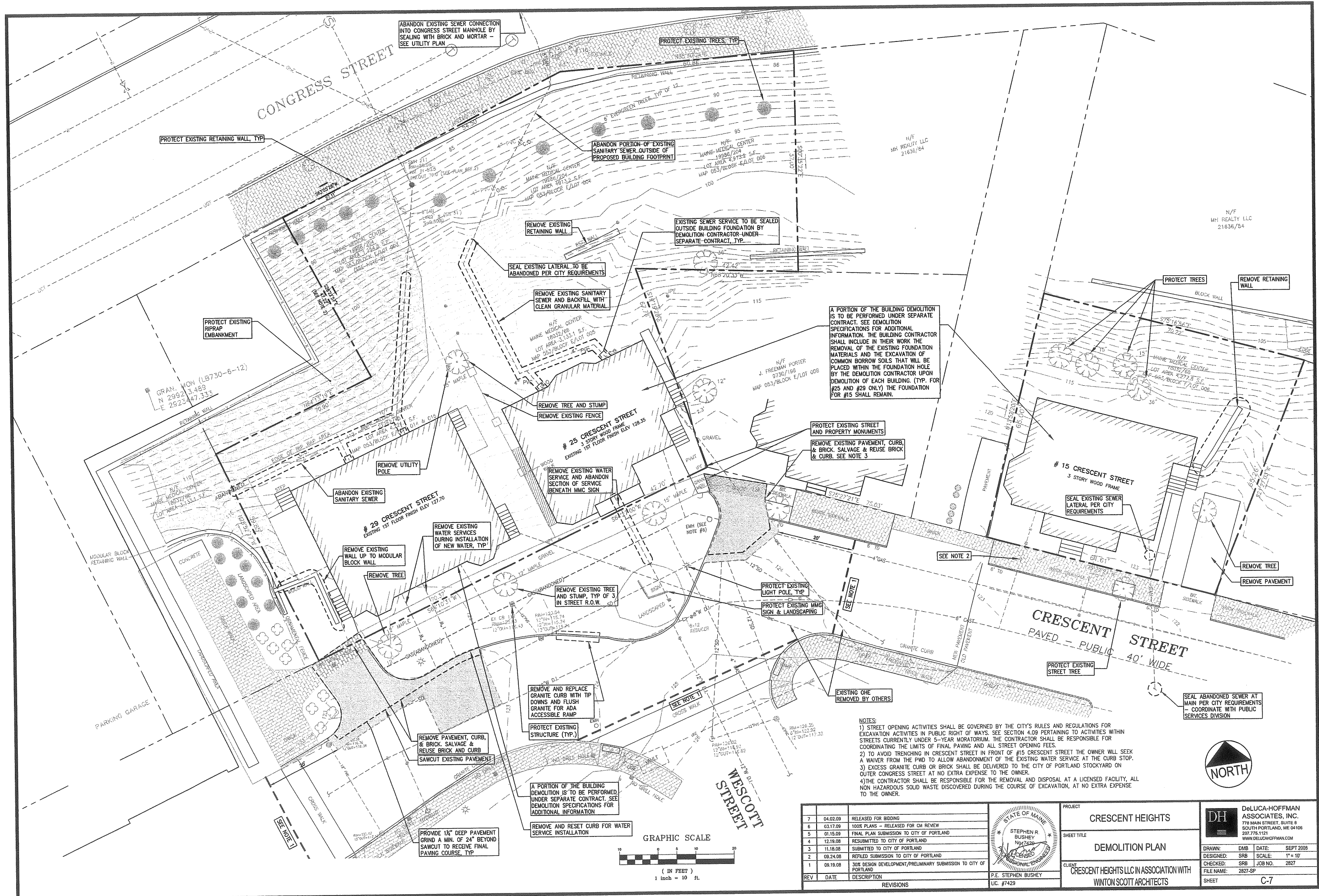
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	

STATE OF MAINE
STEPHEN R. BUSHEY
No. 7429
LICENSED PROFESSIONAL ENGINEER
P.E. STEPHEN BUSHEY
LIC. #7429

PROJECT: CRESCENT HEIGHTS
SHEET TITLE: DEMOLITION PHASE EROSION CONTROL PLAN
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

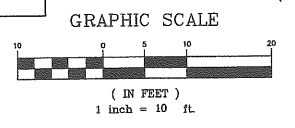
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1191
WWW.DELUCAHOFFMAN.COM
DRAWN: DMS DATE: SEPT 2008
DESIGNED: SRB SCALE: 1" = 10'
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET: C-6

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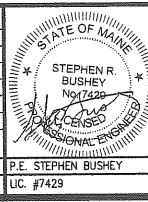


A PORTION OF THE BUILDING DEMOLITION IS TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DEMOLITION SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE BUILDING CONTRACTOR SHALL INCLUDE IN THEIR WORK THE REMOVAL OF THE EXISTING FOUNDATION MATERIALS AND THE EXCAVATION OF COMMON BORROW SOILS THAT WILL BE PLACED WITHIN THE FOUNDATION HOLE BY THE DEMOLITION CONTRACTOR UPON DEMOLITION OF EACH BUILDING. (TYP. FOR #25 AND #29 ONLY) THE FOUNDATION FOR #15 SHALL REMAIN.

- NOTES:
- 1) STREET OPENING ACTIVITIES SHALL BE GOVERNED BY THE CITY'S RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. SEE SECTION 4.09 PERTAINING TO ACTIVITIES WITHIN STREETS CURRENTLY UNDER 5-YEAR MORATORIUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LIMITS OF FINAL PAVING AND ALL STREET OPENING FEES.
 - 2) TO AVOID TRENCHING IN CRESCENT STREET IN FRONT OF #15 CRESCENT STREET THE OWNER WILL SEEK A WAIVER FROM THE PWD TO ALLOW ABANDONMENT OF THE EXISTING WATER SERVICE AT THE CURB STOP.
 - 3) EXCESS GRANITE CURB OR BRICK SHALL BE DELIVERED TO THE CITY OF PORTLAND STOCKYARD ON OUTER CONGRESS STREET AT NO EXTRA EXPENSE TO THE OWNER.
 - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL AT A LICENSED FACILITY, ALL NON HAZARDOUS SOLID WASTE DISCOVERED DURING THE COURSE OF EXCAVATION, AT NO EXTRA EXPENSE TO THE OWNER.



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2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	




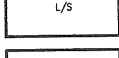
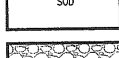

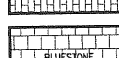



PROJECT: CRESCENT HEIGHTS
 SHEET TITLE: DEMOLITION PLAN
 CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
 DESIGNED: SRB SCALE: 1"=10'
 CHECKED: SRB JOB NO. 2827
 FILE NAME: 2827-SP
 SHEET: C-7

SURFACE TREATMENT LEGEND

-  REMOVE AND RESET EXISTING RIPRAP
-  6" TOPSOIL AND LOW MAINTENANCE SEED WITH EROSION CONTROL MESH
-  FRACTURED RIPRAP (D50 = 8" - THICKNESS = 20") GROUND COVER TO MATCH EXISTING OVER MIRAFI 180N OR EQUAL BENEATH BUILDING - SEE ARCHITECTURAL PLANS FOR DETAILS
-  L/S LANDSCAPE BED WITH PLANTINGS AND MULCH - SEE LANDSCAPE PLAN C-11 FOR DETAILS
-  500 PROVIDE 6" TOPSOIL AND GRASS SOD
-  RIPRAP - D50 = 8" THICKNESS = 20" OVER MIRAFI 180N OR EQUAL FILTER FABRIC
-  BRICK SIDEWALK
-  BLUESTONE SIDEWALK

6" x 8" GRAN. MON
(LB730-5-13)
N 299,438.171
E 292,189.2536

GRAN. MON (LB730-6-12)
N 299,213.489
E 292,347.333

NOTE:
DISTANCES TO CLOSEST PARKING SPACES
IN THE MMC GARAGE FROM THE LODGING
HOUSE MAIN ENTRY USING SIDEWALKS:
THROUGH SIDE DOOR: 172 FT±
THROUGH DRIVE ENTRY: 155 FT±

BUILDING CORNER LAYOUT

ID	DESCRIPTION	NORTHING	EASTING
(A)	MON. FOUND	299,300.53	2,924,004.72
(B)	MON. FOUND	299,253.44	2,923,906.64
(C)	BLDG COR	299,262.70	2,923,912.23
(D)	BLDG COR	299,294.60	2,923,896.16
(E)	BLDG COR	299,314.75	2,923,899.76
(F)	BLDG COR	299,359.44	2,923,922.55
(G)	BLDG COR	299,369.82	2,923,984.19
(H)	BLDG COR	299,300.46	2,923,993.20
(I)	BLDG COR	299,292.32	2,923,976.40
(J)	BLDG COR	299,285.42	2,923,981.06

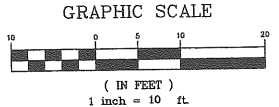
NOTE:
ALL COORDINATE INFORMATION SHALL BE REVIEWED AND
COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL
PLANS PRIOR TO THE SETTING OF FOUNDATION FORM WORK.

REV	DATE	DESCRIPTION
8	04.02.09	RELEASED FOR BIDDING
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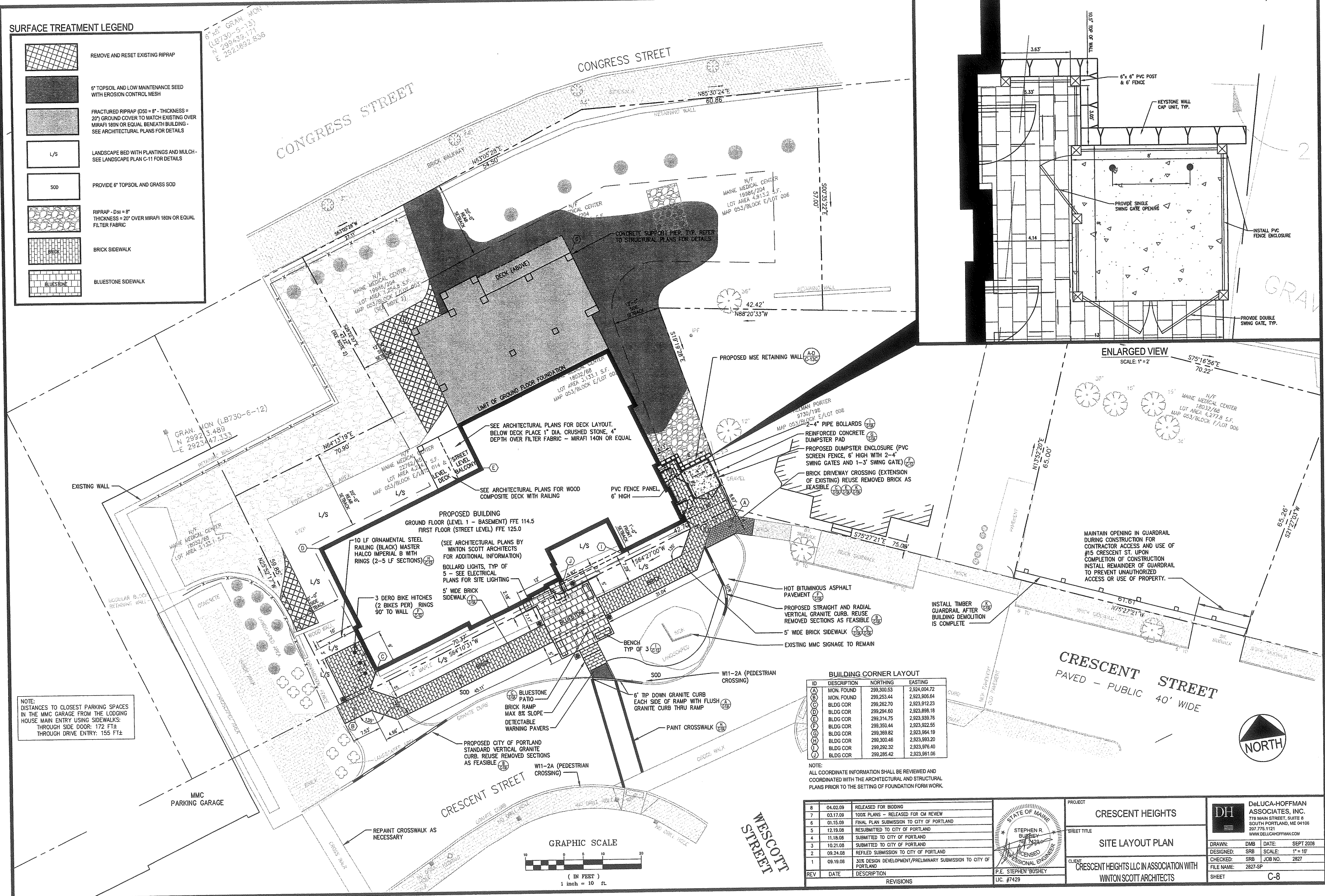
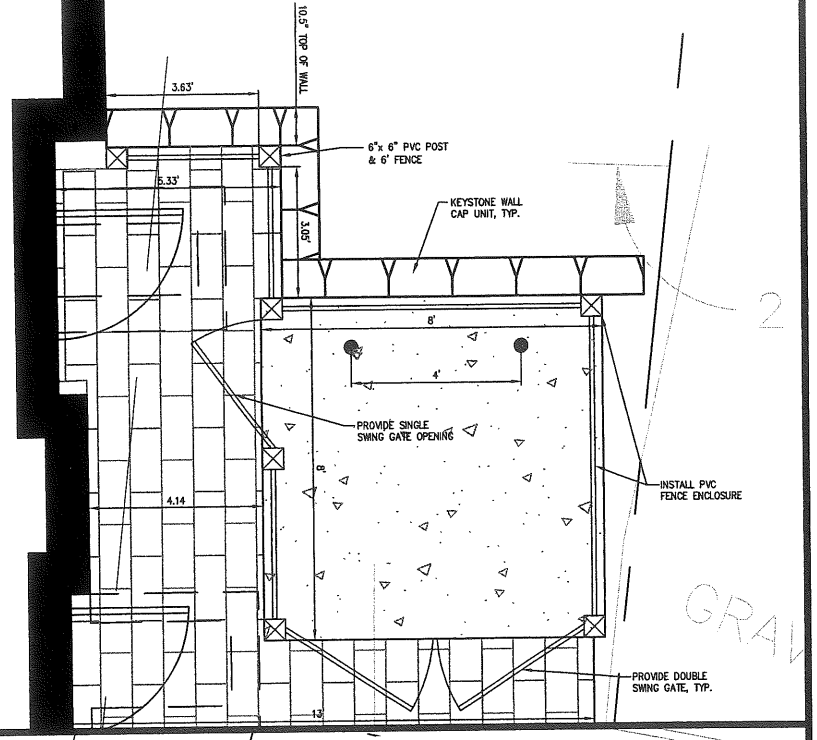
STATE OF MAINE
STEPHEN R. BUSHEY
REGISTERED PROFESSIONAL ENGINEER
P.E. STEPHEN BUSHEY
LIC. #7429

PROJECT
CRESCENT HEIGHTS
SHEET TITLE
SITE LAYOUT PLAN
CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH
WINTON SCOTT ARCHITECTS

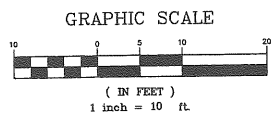
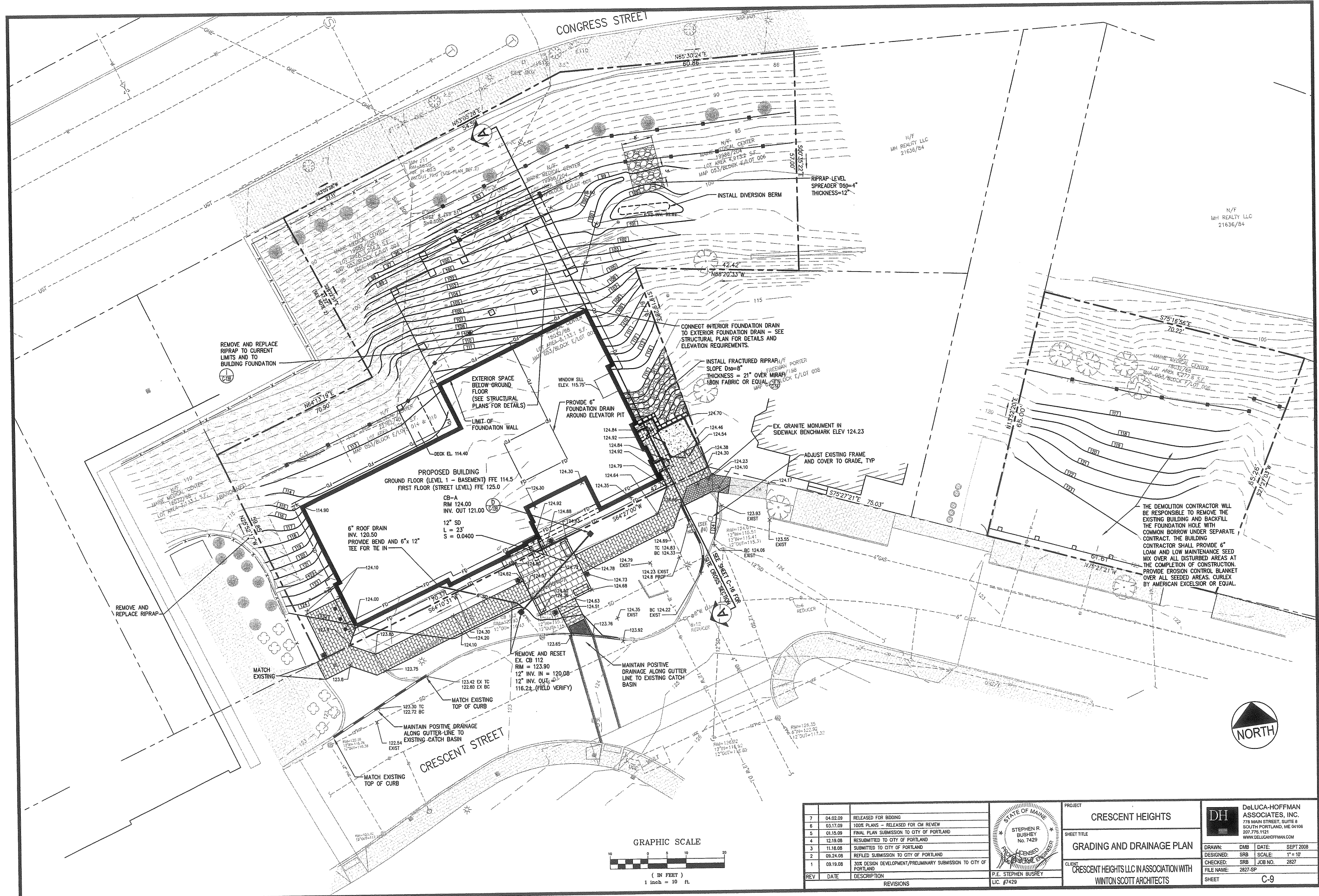
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DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: 1" = 10'
CHECKED: SRB JOB NO.: 2827
FILE NAME: 2827-SP
SHEET C-8



ENLARGED VIEW
SCALE: 1" = 2'



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REV	DATE	DESCRIPTION	REVISIONS
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6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
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4	12.19.08	RESUBMITTED TO CITY OF PORTLAND	
3	11.18.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	

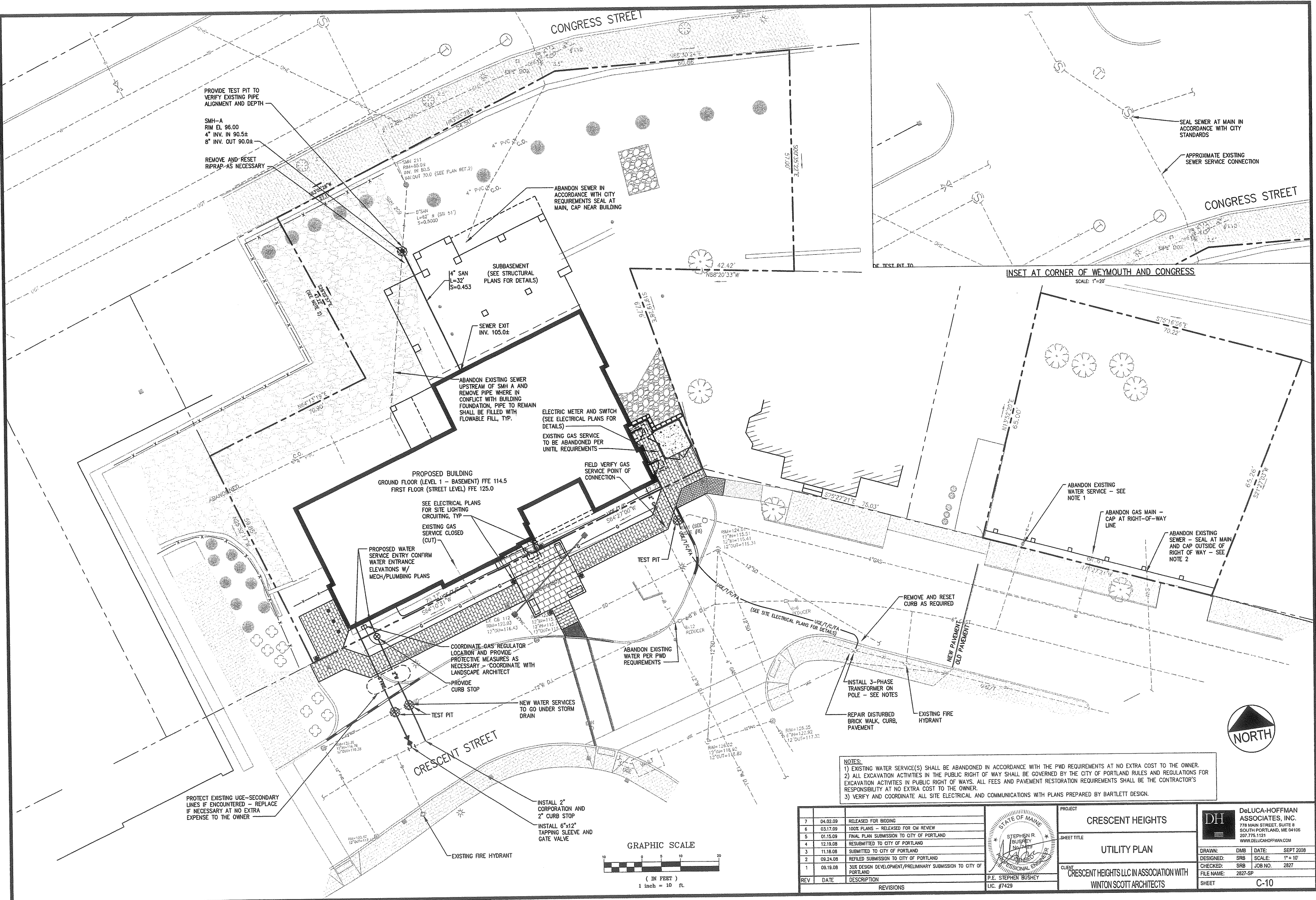
STATE OF MAINE
 REGISTERED PROFESSIONAL ENGINEER
 STEPHEN R. BUSHEY
 No. 7429
 P.E. STEPHEN BUSHEY
 LIC. #7429

PROJECT: CRESCENT HEIGHTS
 SHEET TITLE: GRADING AND DRAINAGE PLAN
 CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1191
 WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
 DESIGNED: SRB SCALE: 1" = 10'
 CHECKED: SRB JOB NO. 2827
 FILE NAME: 2827-SP
 SHEET: C-9

G:\2007 Crescent Street Apt\dwg\OPTION 2\2827.sp-OPTION 2.dwg, UTL, 4/3/2009 9:39:05 AM, c:\hitemmate



NOTES:
1) EXISTING WATER SERVICE(S) SHALL BE ABANDONED IN ACCORDANCE WITH THE PWD REQUIREMENTS AT NO EXTRA COST TO THE OWNER.
2) ALL EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY SHALL BE GOVERNED BY THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. ALL FEES AND PAVEMENT RESTORATION REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO EXTRA COST TO THE OWNER.
3) VERIFY AND COORDINATE ALL SITE ELECTRICAL AND COMMUNICATIONS WITH PLANS PREPARED BY BARTLETT DESIGN.

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
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STATE OF MAINE
STEPHEN R. BUSHEY
No. 7423
P.E. STEPHEN BUSHEY
LIC. #7429

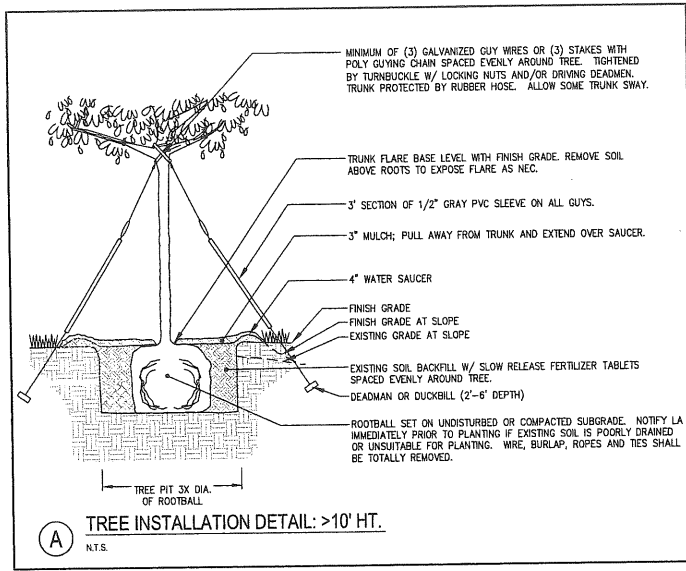
PROJECT
CRESCENT HEIGHTS

SHEET TITLE
UTILITY PLAN

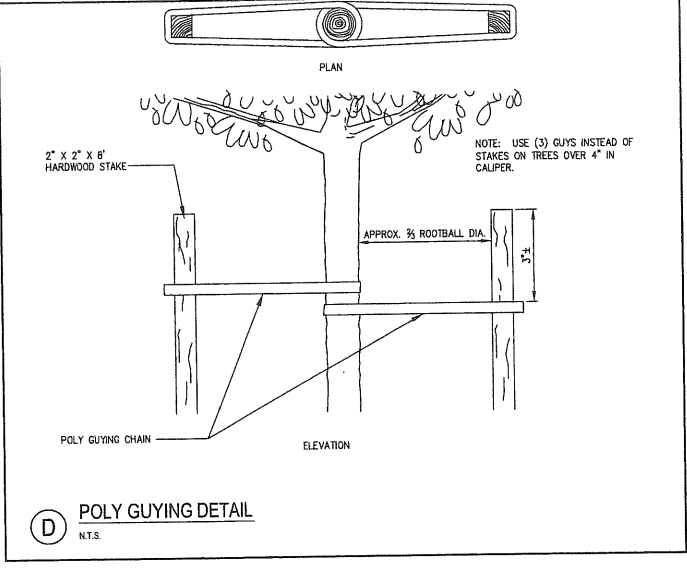
CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1191
WWW.DELUCAHOFFMAN.COM

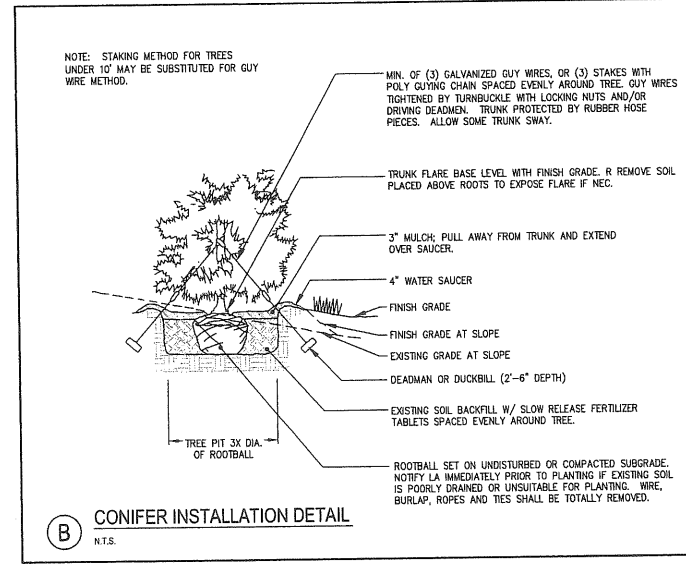
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CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET C-10



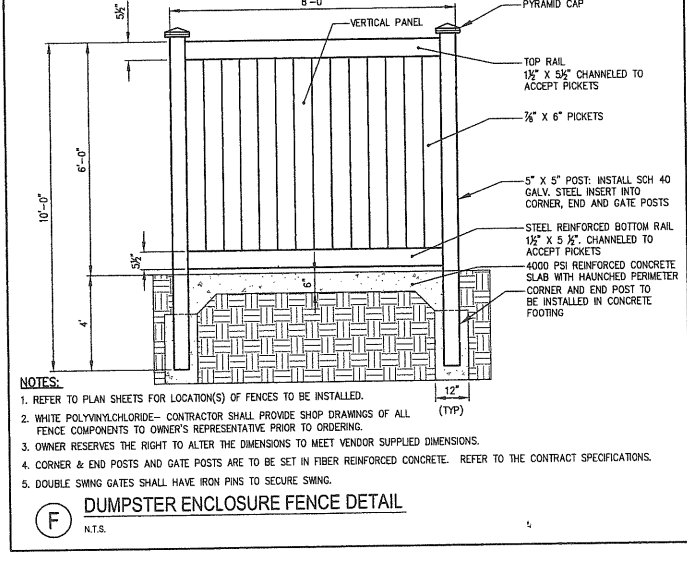
A TREE INSTALLATION DETAIL: >10' HT.
N.T.S.



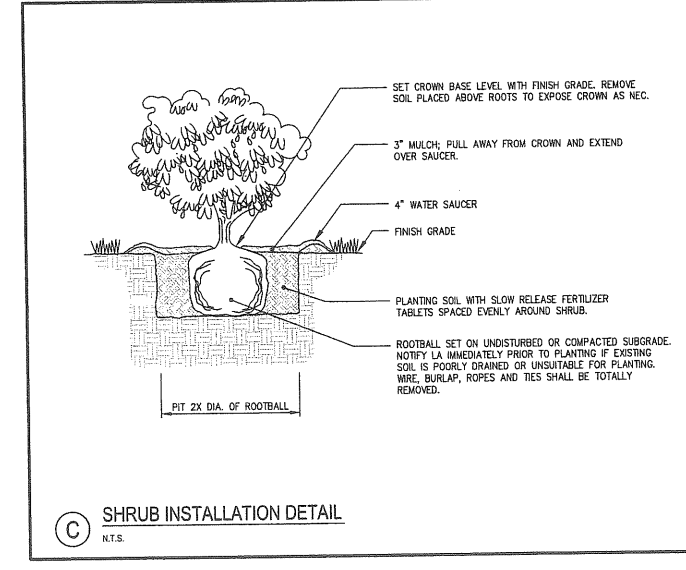
D POLY GUYING DETAIL
N.T.S.



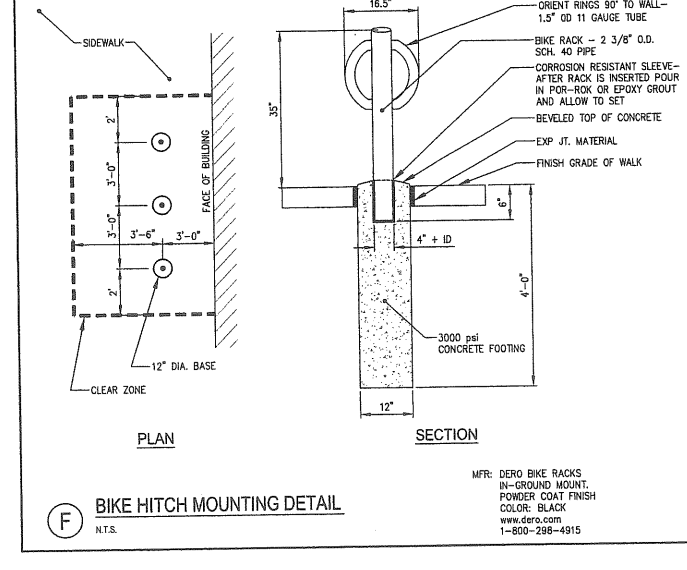
B CONIFER INSTALLATION DETAIL
N.T.S.



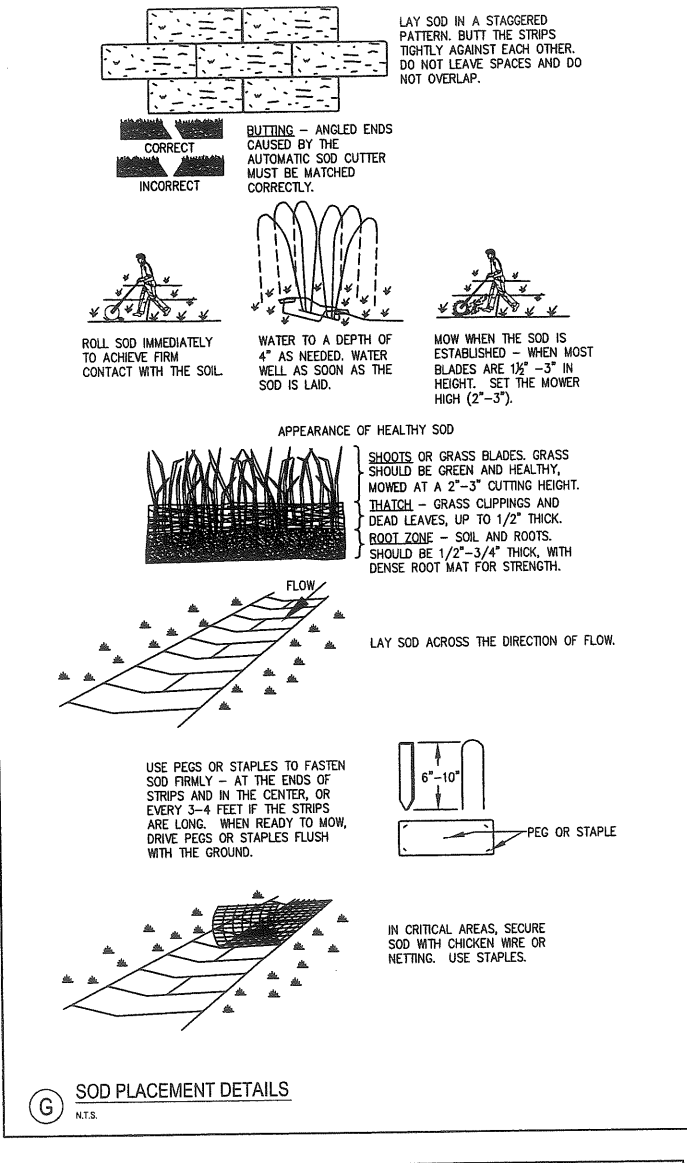
F DUMPSTER ENCLOSURE FENCE DETAIL
N.T.S.



C SHRUB INSTALLATION DETAIL
N.T.S.



F BIKE HITCH MOUNTING DETAIL
N.T.S.



G SOD PLACEMENT DETAILS
N.T.S.

SPECIFICATIONS

SITE PREPARATION

(a) INSTALL NEEDED WATER CONTROL MEASURES.

(b) GRADE SLOPES 2:1 OR FLATTER.

(c) BEFORE LAYING SOD, PROVIDE ADEQUATE DRAINAGE WHERE INTERNAL WATER MOVEMENT, ESPECIALLY AT THE TOE OF SLOPES, MAY CAUSE SEEPS OR SOIL SLIPPAGE.

SOIL PREPARATION

(a) PROVIDE THE BEST POSSIBLE SOIL CONDITIONS FOR SODDING. THE DESIRABLE SOIL TEXTURES INCLUDE SANDY LOAM, LOAM, AND SILT LOAM. WHERE DROUGHTY OR CLAYEY SOILS ARE ENCOUNTERED, CONSIDER AMENDING THEM WITH IMPORTED MATERIALS (TOPSOIL, COMPOST, SAND, ETC.) TO IMPROVE MOISTURE AND NUTRIENT RETENTION AND DRAINAGE. RESPRAY SCREENED NATIVE TOPSOIL (WHEN AVAILABLE) AFTER GRADING.

(b) IF TIME PERMITS, HAVE SOILS TESTED AND FOLLOW LIME AND FERTILIZER RECOMMENDATIONS.

(c) FILL AREAS MUST BE COMPACTED ENOUGH TO PREVENT UNEVEN SETTLING. THE ENTIRE SURFACE TO BE SODDED SHALL BE FREE FROM LARGE CLODS, STONES, OR OTHER DEBRIS. AT THIS STAGE, INCORPORATE LIME AND FERTILIZER UNIFORMLY INTO THE SURFACE SOIL AS NEEDED. IMMEDIATELY BEFORE SODDING, THE SOIL SHALL BE LOOSEND TO A DEPTH OF 1 INCH AND THOROUGHLY DAMPENED. IF NOT ALREADY MOIST, SOD SHALL NOT BE LAID ON DRY SOIL. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHENEVER PRACTICAL.

SELECTION OF SOD

(a) SELECT SOD GROWN FROM SEED OF ADAPTED VARIETIES OR TYPES AND UNDER CULTURAL PRACTICES CONDUCE TO HIGH QUALITY SOD FREE OF THATCH, WEED, INSECT, DISEASE, AND OTHER PEST PROBLEMS.

(b) SELECT SPECIES AND VARIETIES BEST SUITED FOR THE SITES TO BE STABILIZED.

(c) SELECT SOD AT LEAST 15 MONTHS OLD AND NO OLDER THAN 3 YEARS. CULTIVATED TURF GRASS IS USUALLY CONSIDERED READY FOR HARVEST WHEN A CUT PORTION OF SOD 3 FEET LONG BY 1 TO 1 1/2 FEET WIDE WILL SUPPORT ITS OWN WEIGHT WHEN SUBSIDED VERTICALLY FROM THE UPPER 10 PERCENT OF THE SECTION. THE MOST COMMON AGE OF SOD WHEN CUT IS 15 TO 24 MONTHS.

(d) SELECT SOD CUTS OF WIDTH AND LENGTH SUITED TO THE PROJECT AND AVAILABLE EQUIPMENT. GENERALLY, SOD PIECES ARE 12 TO 24 INCHES WIDE, AVERAGING 18 INCHES IN WIDTH. LENGTHS OF PIECES VARY FROM 4 TO 8 FEET. SOD MAY BE CUT AND ROLLED OR FOLDED IN THE MIDDLE AND STACKED ON PALLETS. FOLDED SOD IS CUT SHORTER THAN ROLLED SOD - ABOUT 3 TO 4 FEET IN LENGTH. SOD SHOULD BE CUT WITH A 1/4 TO 1/2 INCH LAYER OF SOIL. ABOUT 80 PERCENT OF ALL RHIZOMES ARE IN THE TOP 3/4 INCH OF SOIL. THE THINNER THE SOD IS CUT THE MORE QUICKLY IT WILL KNOT TO THE SITE SOIL, BUT THE SOIL LAYER MUST BE THICK ENOUGH TO HOLD CUT PIECES TOGETHER WITHOUT FALLING APART.

(e) HAVE SOD DELIVERED TO THE SITE AS SOON AS PRACTICAL AFTER LIFTING. DURING HOT WEATHER, DELIVERY SHOULD BE MADE WITHIN 6 HOURS AND MAY BE EXTENDED TO 48 HOURS DURING COOL SEASONS. IT IS GENERALLY UNWISE TO MOVE SOD DURING JULY AND AUGUST. IF MOVED DURING THIS PERIOD, SOD MAY NEED TO BE CUT THICKER AND IT WILL REQUIRE FREQUENT IRRIGATION.

ESTABLISHMENT

(a) DATES: SOD CAN BE ESTABLISHED FROM APRIL 1st TO NOVEMBER 15th (MAY VARY WITH REGION OF STATE).

(b) LAY STRIPS OF SOD AT RIGHT ANGLES TO DIRECTION OF SLOPE OR FLOW OF WATER STARTING AT THE LOWEST ELEVATION. WEDGE THE EDGES AND ENDS OF THE SOD STRIPS TOGETHER AND TAMP OR ROLL. STAGGER JOINTS. LAY SO THE TOP OF THE SOIL LAYER IS FLUSH WITH THE TOP OF THE UNDISTURBED GROUND OR PAVEMENT SURFACE.

(c) USE WIRE STAPLES, FINE MESH WIRE OR WOOD PINS AND BINDER TWINE ON VERY STEEP SLOPES TO HOLD SOD IN PLACE UNTIL SECURED BY PLANT GROWTH.

(d) IRRIGATE SODDED AREA IMMEDIATELY AFTER INSTALLATION. IF UNFAVORABLE DRY WEATHER OR OTHER CONDITIONS PREVAIL, ADDITIONAL WATERING WILL SUBSEQUENTLY BE REQUIRED. IT MAY ALSO BE DESIRABLE TO IRRIGATE AREA FROM WHICH SOD IS TO BE REMOVED PRIOR TO LIFTING.

SODDED WATERWAYS

(a) CARE SHALL BE TAKEN TO PREPARE THE SOIL ADEQUATELY IN ACCORDANCE WITH THE SPECIFICATIONS. THE SOD TYPE SHALL CONSIST OF PLANT MATERIALS ABLE TO WITHSTAND THE DESIGNED VELOCITY.

(b) SOD STRIPS IN WATERWAYS SHALL BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW (FIGURE 4.2). CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY.

(c) AFTER ROLLING OR TAMPING, SOD SHALL BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. CHICKEN WIRE, JUTE OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

(d) ALL OTHER SPECIFICATIONS FOR THIS PRACTICE SHALL BE ADHERED TO WHEN SODDING A WATERWAY.

TIMING

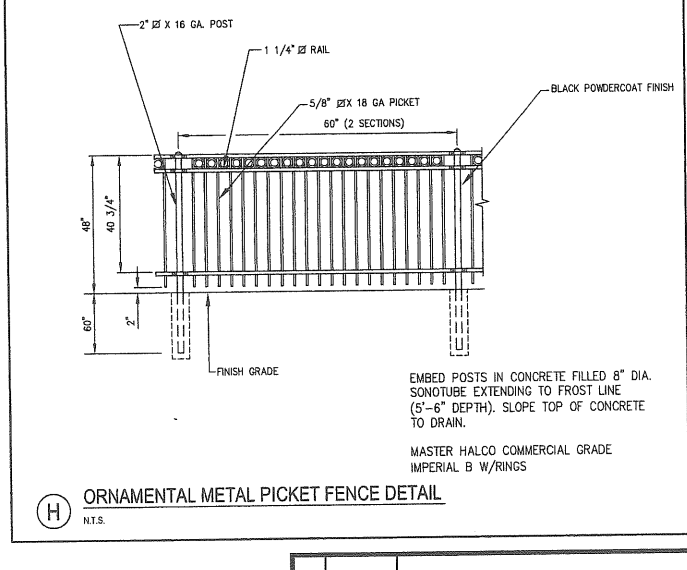
WHEN SOD IS INSTALLED TO STABILIZE AREAS OF CONCENTRATED FLOW (INLETS, DIVERSIONS, DITCHES, ETC.), INSTALLATION MUST BE COMPLETED BEFORE RUNOFF IS DIRECTED TO THAT AREA.

MAINTENANCE

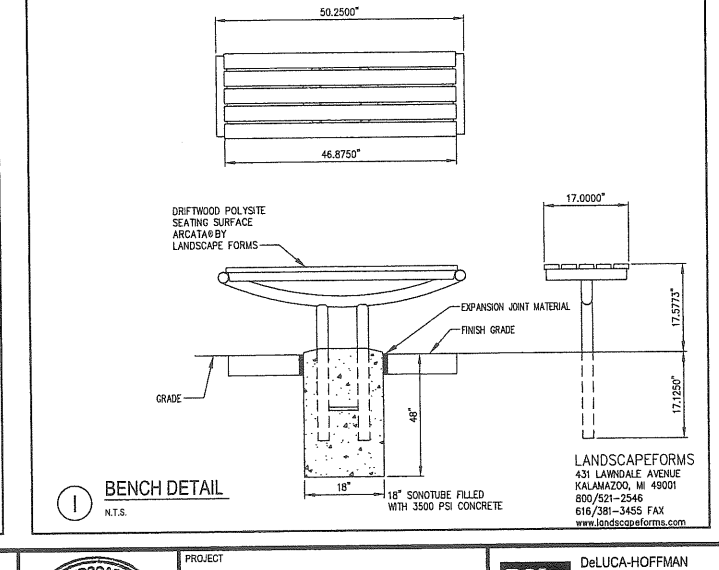
(a) AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE IN THE ROOT ZONE AND PREVENT DORMANCY OF SOD.

(b) NO MORE THAN 1/3 OF THE SHOOT (GRASS LEAF) SHOULD BE REMOVED IN ANY MOWING. GRASS HEIGHT SHOULD BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.

(c) AFTER THE FIRST GROWING SEASON, ESTABLISHED SOD WILL REQUIRE FERTILIZATION AND MAY REQUIRE LIME. FOLLOW SOIL TEST RECOMMENDATIONS.



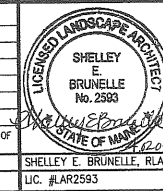
H ORNAMENTAL METAL PICKET FENCE DETAIL
N.T.S.



I BENCH DETAIL
N.T.S.

G:\2827 Crescent Street Apt 609\PERMIT\2827-DET.dwg, LAND & SITE FURN. DET., 4/2/2009 4:53:59 PM, cwinburnham

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT: **CRESCENT HEIGHTS**

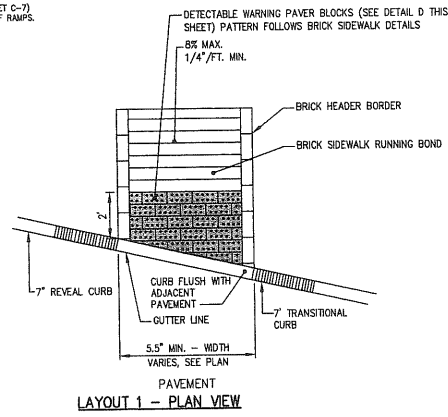
SHEET TITLE: **LANDSCAPE AND SITE FURNISHING DETAILS**

CLIENT: **CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS**

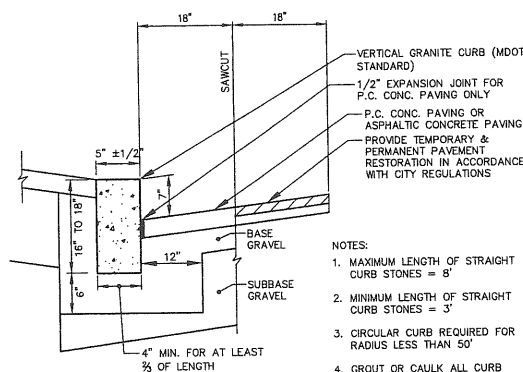
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET: C-12

NOTES:
1. SEE SITE LAYOUT PLAN (SHEET C-7) FOR LOCATIONS & DIMENSIONS OF RAMPS.

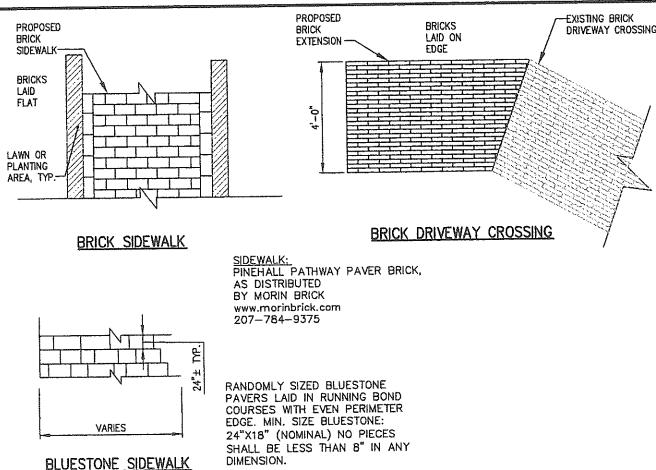


A ADA RAMP DETAIL - WITH PAVER BLOCKS
N.T.S.

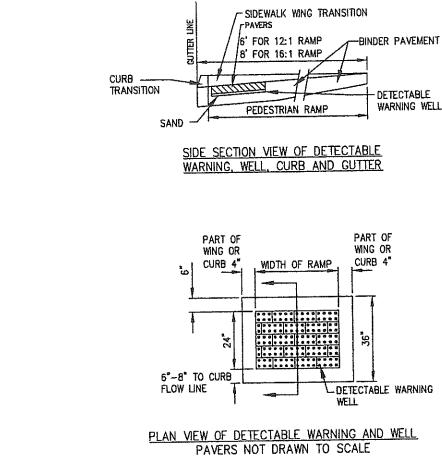


NOTES:
1. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8'
2. MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
3. CIRCULAR CURB REQUIRED FOR RADIUS LESS THAN 50'
4. GROUT OR CAULK ALL CURB JOINTS OVER 1/4" IN WIDTH. INSTALL STRIP OF FILTER FABRIC BEHIND EACH CURB JOINT.

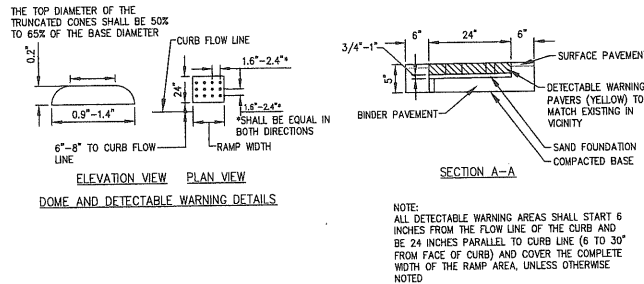
B VERTICAL GRANITE CURB
N.T.S.



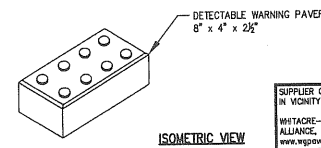
C PAVER PATTERNS
N.T.S.



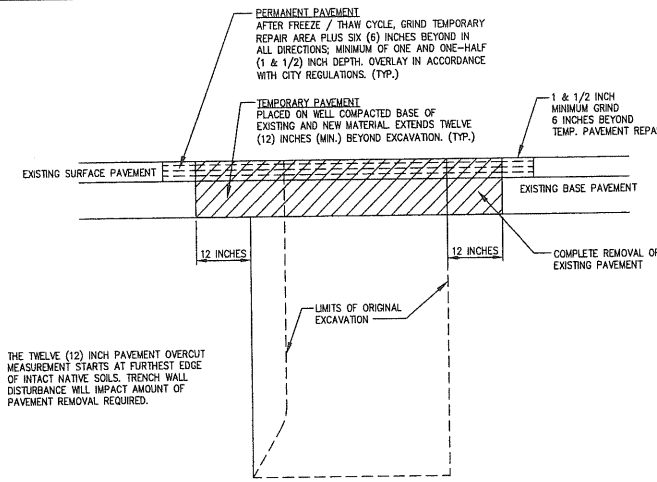
PLAN VIEW OF DETECTABLE WARNING AND WELL
PAVERS NOT DRAWN TO SCALE



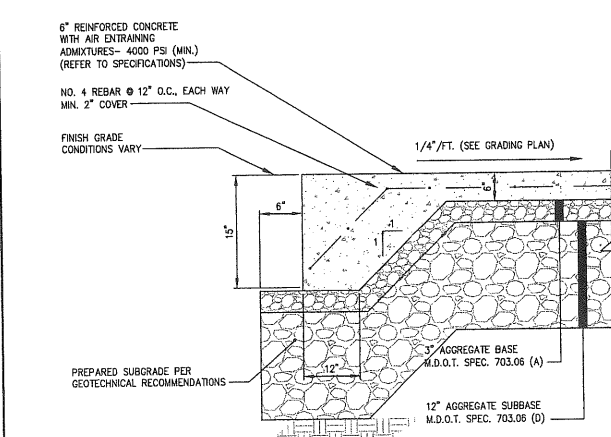
NOTE: ALL DETECTABLE WARNING AREAS SHALL START 6 INCHES FROM THE FLOW LINE OF THE CURB AND BE 24 INCHES PARALLEL TO CURB LINE (6 TO 30" FROM FACE OF CURB) AND COVER THE COMPLETE WIDTH OF THE RAMP AREA, UNLESS OTHERWISE NOTED.



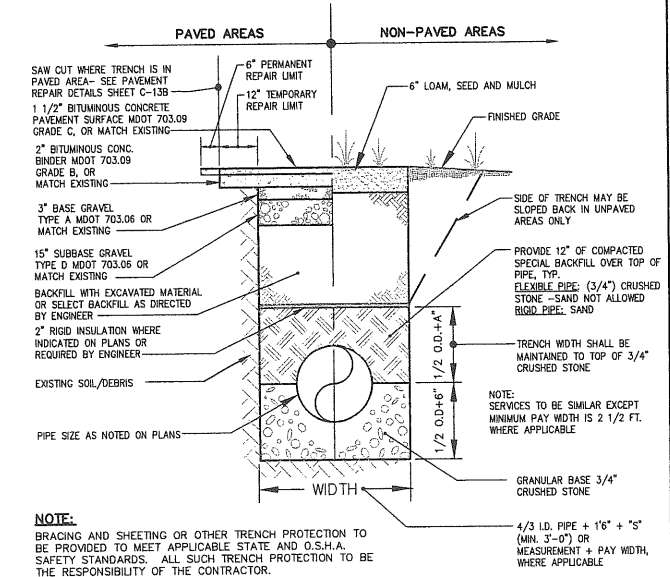
D DETECTABLE WARNING PAVER DETAIL
N.T.S.



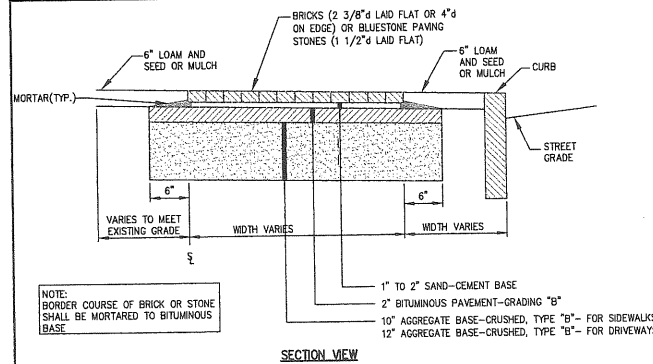
F CROSS SECTION OF TYPICAL EXCAVATION
N.T.S.



G REINFORCED CONCRETE PAD DETAIL
N.T.S.



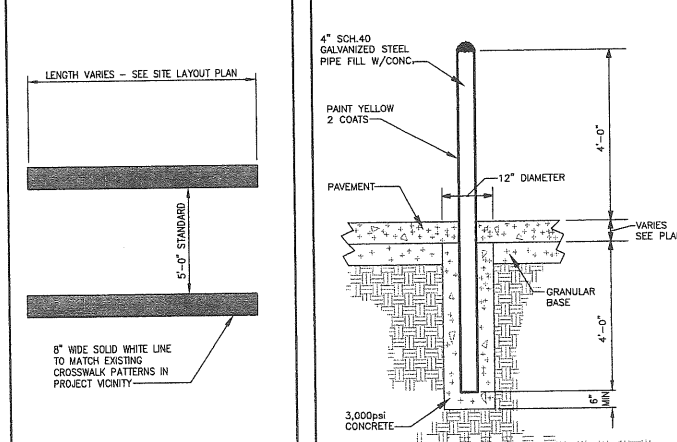
J TYPICAL UTILITY PIPE TRENCH SECTION DETAIL
N.T.S.



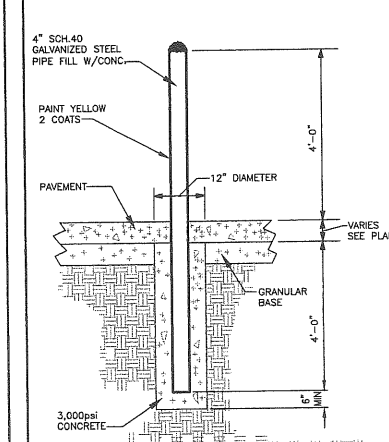
NOTE: BORDER COURSE OF BRICK OR STONE SHALL BE MORTARED TO BITUMINOUS BASE.

REFER TO THE CITY OF PORTLAND TECHNICAL AND DESIGN STANDARDS AND GUIDELINES- SECTION 1- STREET DESIGN STANDARDS FOR PERTINENT INFORMATION ON SIDEWALK CONSTRUCTION.

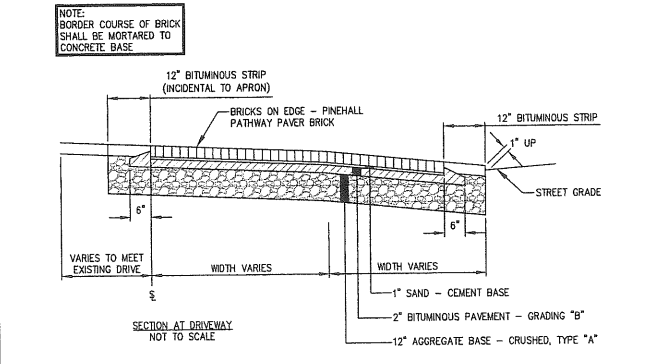
E MASONRY SIDEWALK WITH BITUMINOUS BASE
N.T.S.



H CROSSWALK STRIPING DETAIL
N.T.S.

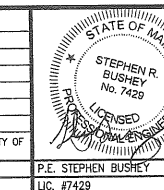


I PIPE BOLLARD DETAIL
N.T.S.



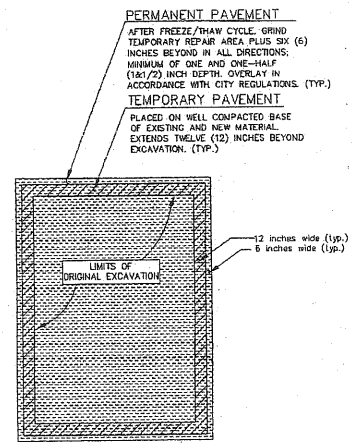
K CITY OF PORTLAND BRICK WITH BITUMINOUS BASE SIDEWALK AND DRIVEWAY CONSTRUCTION DETAIL
N.T.S.

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
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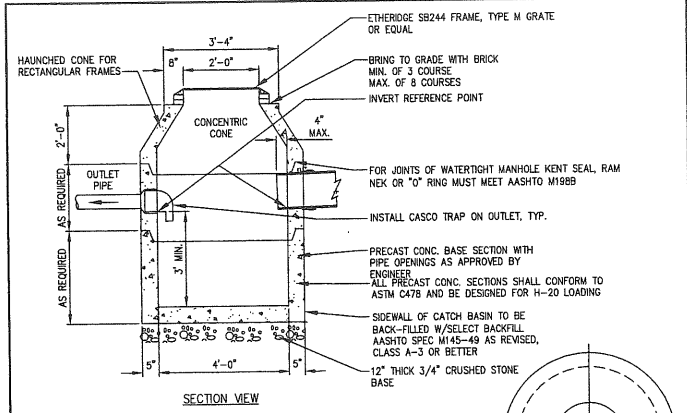
PROJECT	CRESCENT HEIGHTS
SHEET TITLE	SITE AND UTILITY DETAILS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
DRAWN	DMB DATE: OCT 2008
DESIGNED	SEB SCALE: AS NOTED
CHECKED	SRB JOB NO. 2827
FILE NAME	2827-DET
SHEET	C-13A

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
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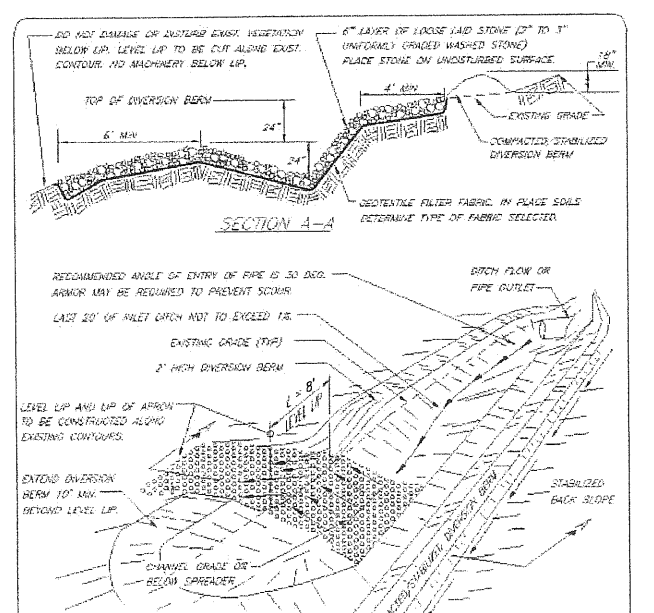
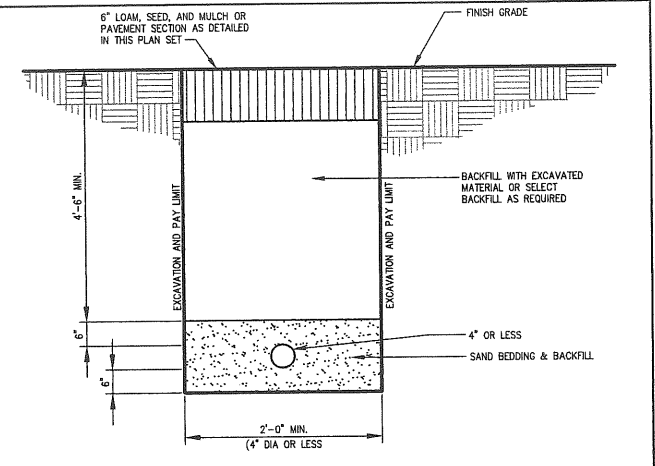
NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

A PLAN VIEW OF MINOR EXCAVATION PAVEMENT REPAIR
APPENDIX C1 N.T.S.

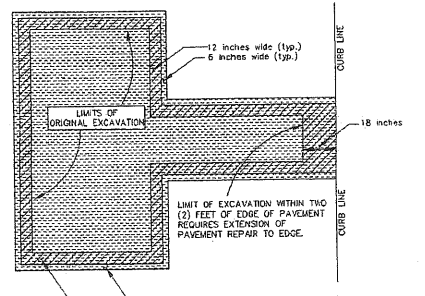


NOTE: WHERE DEPTH OF COVER IS NOT SUFFICIENT TO USE CONCENTRIC OR TRUNCATED CONE, A FLAT TOP MAY BE USED IF APPROVED BY THE OWNER'S REPRESENTATIVE.

D 4"-0" PRECAST CATCH BASIN DETAIL
N.T.S.

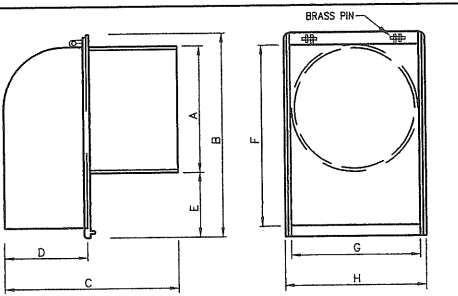


- CONSTRUCTION SPECIFICATIONS:**
- SPREADERS SHALL BE INSTALLED WITH A LEVEL INSTRUMENT CONSTRUCT LEVEL UP TO BE GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOT FILL)
 - SELECT GEOTEXTILE FABRS BASED ON UNDISTURBED SOILS (GRASS, SILTS, CLAYS, ETC.)
 - PLACE 6" LAYER OF UNIFORMLY GRAINED STONE 2" TO 3" IN DIA. GRADE TO FORM SMOOTH UNIFORM SURFACE. DO NOT FILL VENTS IN STONE
 - THE INLET BENCH SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 30 FEET BEFORE ENTERING THE SPREADER
 - STORM FLOW ONLY CONVERTED TO SHEET FLOW ACROSS OUTLET ARROW SHALL FLOW ONTO STABILIZED AREAS
 - RIP-RAP SHALL NOT BE RECONCENTRATED IMMEDIATELY BELOW THE POINT OF DISCHARGE
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED
 - CONSTRUCTION OF LEVEL UP SPREADER SHALL BE FROM UPHILL SIDE ONLY. LEVEL UP & AREA BELOW SPREADER SHALL BE AT EXISTING GRADES & UNDISTURBED BY EARTHWORK OR EQUIPMENT
 - CONTRACTOR SPREADER WITH RIP AT EXISTING ELEVATION AS SPECIFIED
 - DOWNSTREAM RECEIVING AREA MUST BE NATURALLY WELL VEGETATED
 - DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 25' OF STREAM OR WATER BODY.
- THE DEP MUST
- LEVEL LIP SPREADER**
- TITLE: 2827-DET



NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

B PLAN VIEW OF MINOR EXCAVATION PAVEMENT REPAIR
APPENDIX C2 N.T.S.

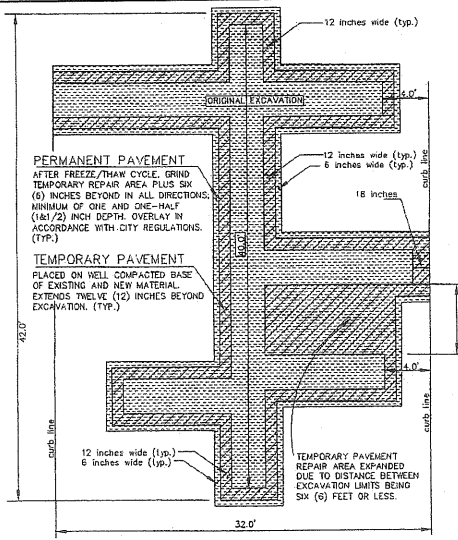
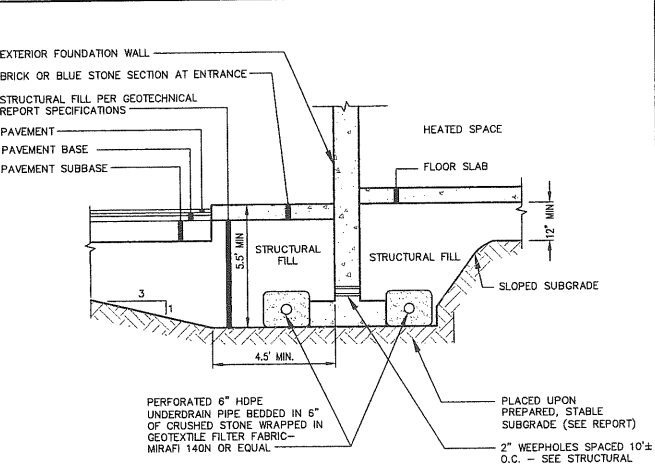


NOTE: 1. INSTALL AN ETHERIDGE FOUNDRY CASCO TRAP OR EQUAL ON ALL CATCH BASIN OUTLET PIPES. SNOOT OIL & DEBRIS STOP WILL ALSO BE ACCEPTED.

2. THE CASCO TRAP IS AN ETHERIDGE STYLE DESIGNED TO ELIMINATE CEMENTING OF THE TRAP. TO INSTALL, THE CASCO TRAP IS INSERTED INTO THE STORM DRAIN WITH THE HOOD DOWN.

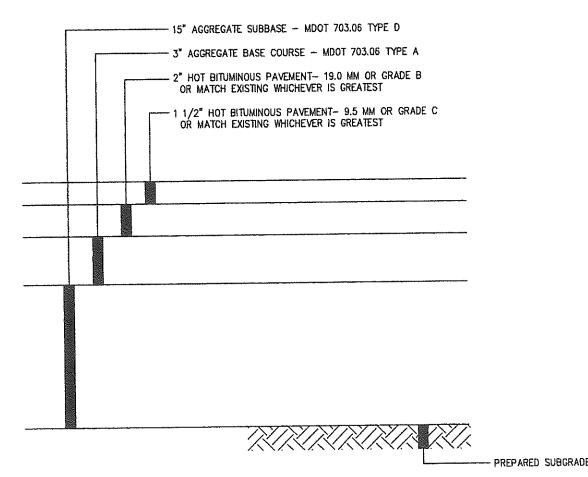
E ETHERIDGE FOUNDRY CASCO TRAP DETAIL
N.T.S.

INSTALLATION OF CASCO TRAP IS INCIDENTAL TO CATCH BASIN STRUCTURE.

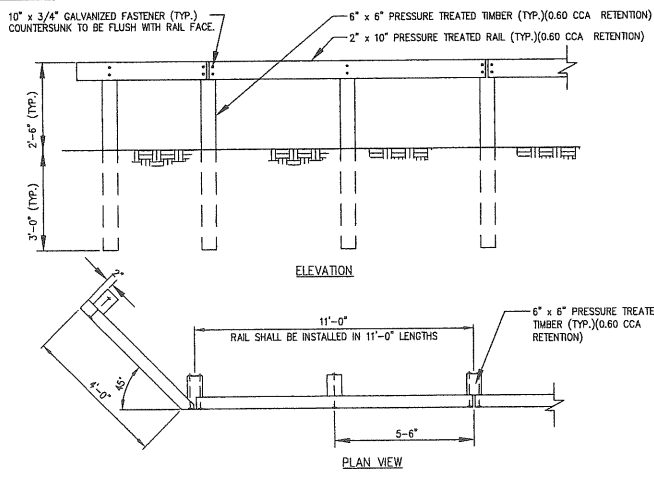
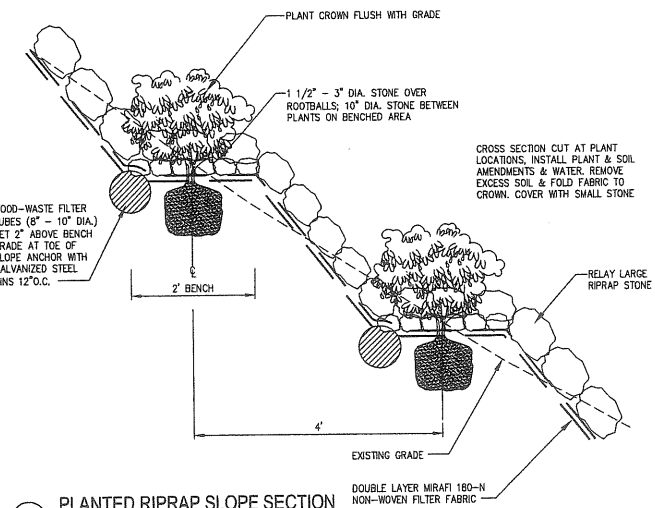


NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

C PLAN VIEW OF MAJOR EXCAVATION PAVEMENT REPAIR
APPENDIX C3 N.T.S.

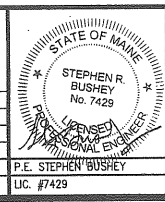


F TYPICAL PAVEMENT SECTION
N.T.S.



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REV	DATE	DESCRIPTION	REVISIONS
4	04.02.08	RELEASED FOR BIDDING	
3	03.17.08	100% PLANS - RELEASED FOR CM REVIEW	
2	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
1	12.19.08	RESUBMISSION TO CITY OF PORTLAND	



PROJECT: CRESCENT HEIGHTS

SHEET TITLE: SITE AND UTILITY DETAILS

CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DESIGNED: SER SCALE: AS NOTED

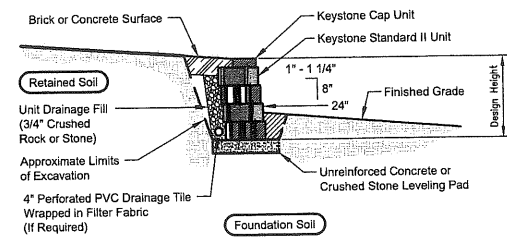
CHECKED: SRB JOB NO. 2827

FILE NAME: 2827-DET

SHEET: C-13B

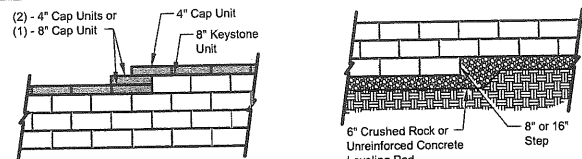
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: OCT 2008



**TYPICAL GRAVITY WALL SECTION
BY KEYSTONE RETAINING WALL SYSTEMS**

A N.T.S. Standard II Unit - 1" Setback



Note:
1. Secure all cap units with Keystone Kapseal or equal.

Note:
1. The leveling pad is to be constructed of crushed stone or 2000 psi ± unreinforced concrete.

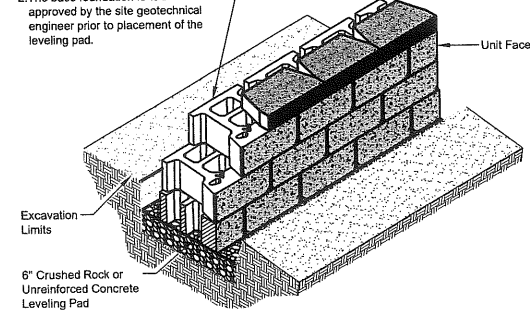
D N.T.S. TOP OF WALL STEPS AND LEVELING PAD DETAIL

Base Leveling Pad Notes:

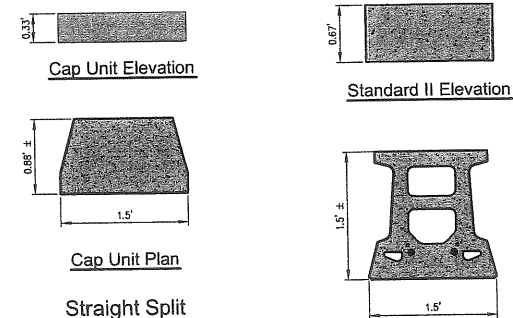
1. The leveling pad is to be constructed of crushed stone or 2,000 psi unreinforced concrete.

2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

Standard II Unit		Cap Unit	
Width:	18"	Width:	18"
Depth:	18"	Depth:	10 1/2"
Height:	8"	Height:	4"
*Weight:	112 lbs	*Weight:	50 lbs



B N.T.S. STANDARD II UNIT/BASE PAD ISOMETRIC SECTION VIEW
* Dimensions & Weight May Vary by Region



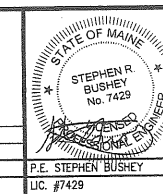
**Straight Split
Cap Unit Option**
* Dimensions & Availability Will Vary by Region

Standard II Plan
Standard II Unit
* Dimensions May Vary by Region

C N.T.S. STRAIGHT SPLIT CAP UNIT OPTION AND STANDARD II UNIT DETAIL

G:\2827 Crescent Street Apt\dwg\PERMIT\2827-DET.dwg, SITE & UTIL DET (3), 4/1/2009 11:23:52 AM, D:\dwg

REV	DATE	DESCRIPTION	REVISIONS
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1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	



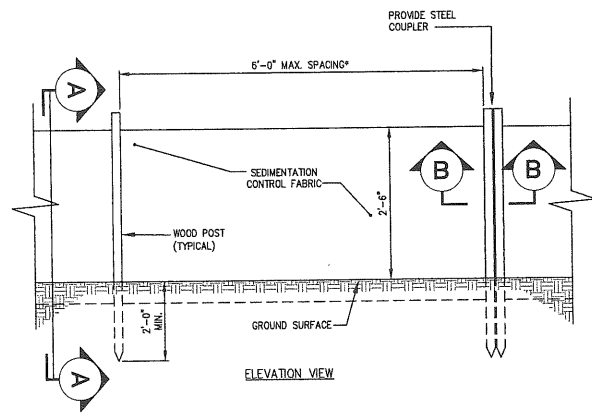
PROJECT: CRESCENT HEIGHTS

SHEET TITLE: SITE AND UTILITY DETAILS

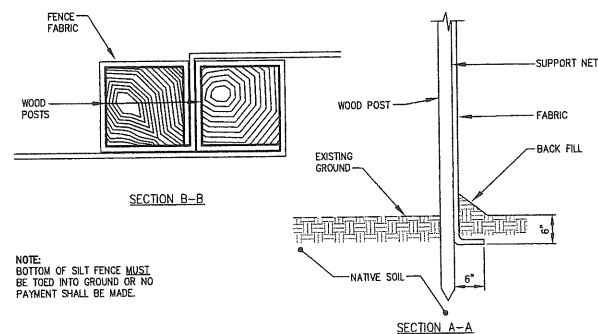
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

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WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET: C-13C

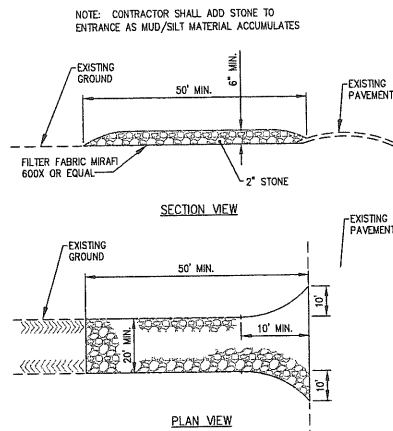


NOTE: THE SILT FENCE SHOULD HAVE A MINIMUM STAKING OF 6' UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT A MINIMUM 14 GAUGE AND WITH A MINIMUM MESH SPACING OF 6" IN WHICH CASE STAKES MAY BE SPACED AT 10'.

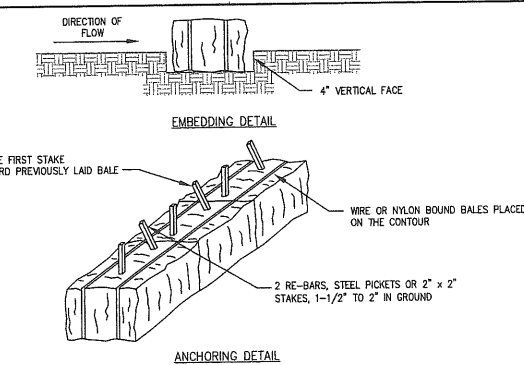


NOTE: BOTTOM OF SILT FENCE MUST BE TOED INTO GROUND OR NO PAYMENT SHALL BE MADE.

A SILTATION FENCE DETAIL
N.T.S.

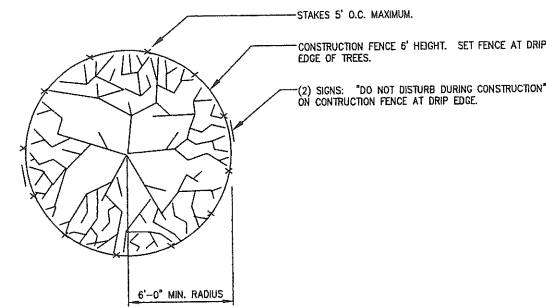


C STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

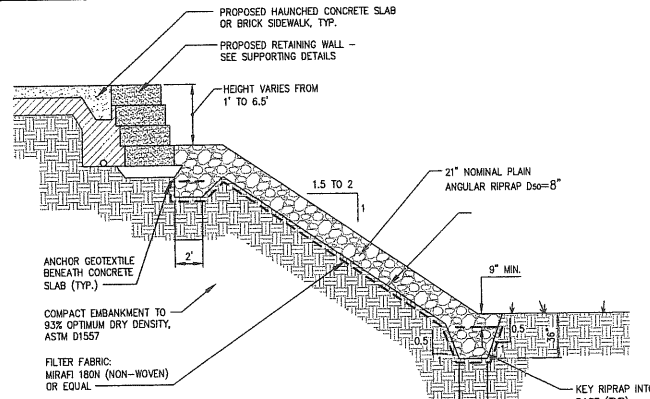


- CONSTRUCTION SPECIFICATIONS**
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE WAS ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 - INSPECTION WILL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

D STRAW OR HAYBALE BARRIER
N.T.S.



E TREE PROTECTION DETAIL
N.T.S.



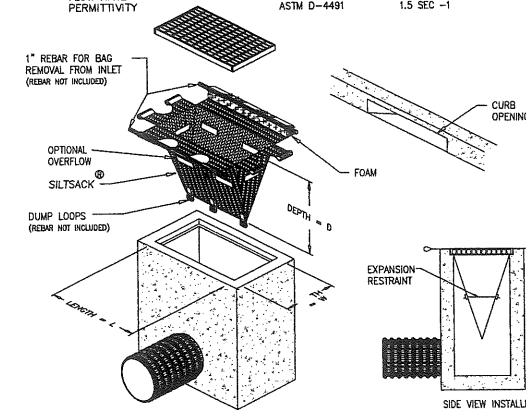
F RIPRAP SLOPE DETAIL
N.T.S.

SILTSACK®
SPECIFICATIONS

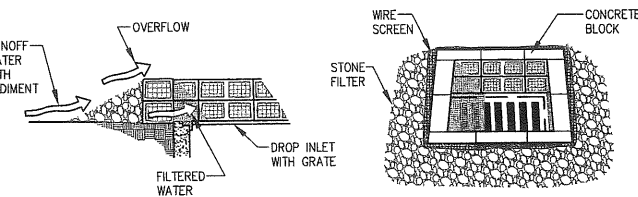
NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

HI-FLOW SILTSACK® (FOR USE IN LOW POINTS/SAGS)
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSF
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4481	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4481	1.5 SEC -1



H SILT SACK® DETAIL & SPECIFICATIONS
N.T.S.



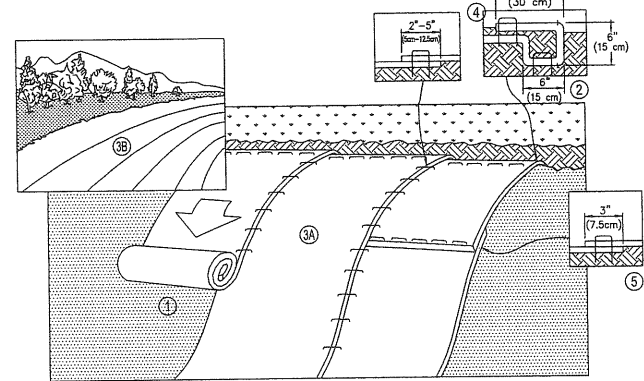
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

- NOTES:**
- PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4", 8" AND 12" WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES HIGH, AND NO GREATER THAN 24 INCHES HIGH.
 - WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE USED.
 - STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.
 - IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

I CATCH BASIN STONE SEDIMENT BARRIER DETAIL
N.T.S.

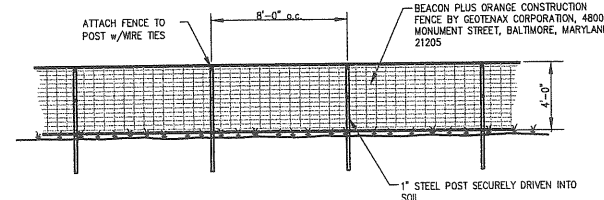
EROSION CONTROL BLANKET DETAIL FOR SLOPE INSTALLATION



B EROSION CONTROL BLANKET

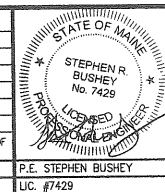
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF THE BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPUN DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.



G ORANGE CONSTRUCTION FENCE DETAIL
N.T.S.

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
5	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND	
3	11.18.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	JOB DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT	CRESCENT HEIGHTS
SHEET TITLE	EROSION AND SEDIMENT CONTROL DETAILS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DRAWN	DMS	DATE	SEPT 2008
DESIGNED	SRB <td>SCALE</td> <td>AS NOTED</td>	SCALE	AS NOTED
CHECKED	SRB <td>JOB NO.</td> <td>2827</td>	JOB NO.	2827
FILE NAME	2827-DET		
SHEET	C-14		

EROSION AND SEDIMENT CONTROL NOTES

The primary emphasis of the erosion/sedimentation control plan to be implemented for this project are as follows:
 Development of a careful construction sequence. Rapid revegetation of denuded areas to minimize the period of soil exposure. Rapid stabilization of drainage paths to avoid fill and gully erosion. The use of onsite measures to capture sediment (hay bales/silt fence, etc.) The provisions for long term erosion/sediment and pollutant treatment by the incorporation of permanent Best Management Practices.

Description and Location of Limits of All Proposed Earth Movements

The construction of the development will require the following on-site improvements:

Demolition of existing structures.

Earthwork activity including cuts and fills to bring the building pad and landscape areas to subgrade.

Construction of utilities.

Construction of building foundations.

Erosion/Sedimentation Control Devices

The following erosion and sediment control devices will be implemented by the Contractor as part of the site development. These devices shall be installed as indicated on the plans. For further reference, see the Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices, latest edition.

Siltation fence shall be installed downgradient of any disturbed areas to trap runoff borne sediments until the site is revegetated. The silt fence or erosion control mix barrier shall be installed per the details provided in the plan set and inspected immediately after each rainfall and at least daily during prolonged rainfall. Repairs shall be made immediately by the Contractor if there are any signs of erosion or sedimentation below the fence line. Proper placement of stakes and fabric into the ground is critical to the fence's effectiveness. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind the fence, the contractor shall perform measures to reduce concentrated flows.

Straw or hay mulch including hydroseeding is intended to provide cover for denuded or seeded areas until revegetation is established. Mulch placed on slopes of less than 10 percent shall be anchored by applying water; mulch placed on slopes steeper than 10 percent shall be covered with a fabric netting and anchored with staples in accordance with the manufacturer's recommendations. Slopes steeper than 3:1 which are to be revegetated shall receive Turf Reinforcement by North American Green or equal. Mulch application rates are provided at the end of this section. Hay mulch shall be available on site at all times in order to provide immediate temporary stabilization when necessary.

Riprap slopes, stone check dams, sod and hay bale barriers are intended to reduce runoff velocities and protect denuded soil surfaces from concentrated flows. Installation details and stone sizes are provided in the construction plan set on the erosion control detail sheets.

Construction entrance will be constructed at all access points onto the site to prevent tracking of soil onto Crescent Street or nearby streets.

Storm drain catch basin inlet protection shall be provided through the use of stone sediment barriers or a premanufactured SiltSack™ as distributed by A. H. Harris. Stone sediment barrier installation details are provided in the plan set. The barriers shall be inspected after each rainfall and repairs made as necessary. Sediment shall be removed and the barrier restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the barrier. The barrier shall be removed when the tributary drainage area has been stabilized.

Sod is intended to serve as the primary permanent revegetative measure within the #25/ #29 development area for all denuded areas not provided with other erosion control measures, such as riprap or mulched planting beds. The #15 Crescent Street site shall receive 6" top soil, lime, fertilizer, seed and mulch at the end of construction once the site is no longer used for staging/ materials storage

Temporary Erosion/Sedimentation Control Measures

The following are planned as temporary erosion/sedimentation control measures during construction:

Crushed stone stabilized construction entrance(s) shall be placed at the site access to Crescent Street.

Siltation fence shall be installed along the downgradient side of all disturbed areas. The siltation barrier will remain in place and properly maintained until the site is acceptably revegetated. Multiple rows of silt fence may be required due to the project site's steeper grades.

Stumps, grubbing, or common excavation shall be removed from the site as the work proceeds. Temporary stockpiles shall not be allowed due to the lack of available space and the steepness of the site.

All denuded areas which have been rough graded and are not located within the building pad or pavement subbase area, shall receive temporary mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch, applied at twice the normal application rate and anchored with a fabric netting. The time period for applying mulch shall be limited to 3 days for all areas or immediately in advance of a predicted rainfall event.

Crescent Street and Wescott Street shall be swept to control mud and dust as necessary. A street sweeper shall be available on immediate notice.

During grubbing operations stone check dams will be installed at any evident concentrated flow discharge points.

Silt fencing with a maximum stake spacing of 6 feet should be used, unless the fence is supported by wire fence reinforcement of minimum 14 gauge and with a maximum mesh spacing of 6 inches, in which case stakes may be spaced a maximum of 10 feet apart. The bottom of the fence should be properly anchored a minimum of 6" per the plan detail and backfilled. Any silt fence identified by the owner or reviewing agencies as not being properly installed during construction shall be immediately repaired in accordance with the installation details.

The contractor may choose to place temporary plastic sheeting anchored with sand bags along steeper exposed slopes or foundation construction areas to protect denuded ground surface and to protect subgrade areas.

All turbid water within trenches or excavations shall be pumped into an approved sediment removal device such as a Dirtbag or approved equal. If necessary turbid water shall be pumped into a voc truck and removed from the site and disposed of at an approved off site location.

Permanent Erosion Control Measures

The following permanent erosion control measures have been designed as part of the Erosion/Sedimentation Control Plan:

The foundation drain pipe shall have a riprap apron and level spreader at the outlet to protect the outlet from scour and deterioration. Installation details are provided in the plan set. The apron shall be installed and stabilized immediately upon pipe installation.

All areas disturbed during construction, but not subject to other restoration (paving, riprap, planting beds, etc.) will be loamed, limed, and sodded within the proposed building site. The #15 Crescent Street site shall be used as a staging area for the project once the existing building is demolished. At the end of construction all denuded area at #15 Crescent Street shall be loamed (6" min.), limed, fertilized, mulched and seeded within 7 days of final cleanup.

Timing and Sequence of Erosion/Sedimentation Control Measures

The following construction sequence shall be required to insure the effectiveness of the erosion and sedimentation control measures are optimized. The sequence applies to all phases of construction.

For all grading activities, the contractor shall exercise extreme caution not to overexpose the site by limiting the disturbed areas. Install crushed stone stabilized construction entrances as shown on plans. Install perimeter siltation barriers as indicated on the plans. Demolish the existing buildings and foundations and clear and grub areas necessary for the utilities and new building foundation areas. Begin excavation.

Excess materials shall be removed from the site. Perform earthwork to bring building pad to subgrade. Begin installation of drainage appurtenances and piping and utilities. Commence additional earthwork around the building foundation as it is completed. Complete installation of storm drainage appurtenances within landscaped areas. Structures within the landscaped areas shall be temporarily set to subgrade and shall be reset upon placement of final loam and seeding or other surface restoration measures. Complete all remaining earthwork operations including fine grading of slopes. Install subbase and base gravels within sidewalk or other hardsurface areas.

Install base course paving for sidewalks. Loam, lime, fertilize, seed or sod and mulch disturbed areas and complete all landscaping. Install brick paving for sidewalk areas. Remove accumulated sediment from ahead of any sediment barriers as necessary. Once the site is stabilized, a 90% catch of vegetation has been obtained, remove all temporary erosion control measures. Touch up grassed areas by fertilizing and regrassing as necessary.

Note: All denuded areas not subject to final paving, riprap or gravel, shall be revegetated.

For all work which will be conducted between November 1 and April 15 of the calendar year, the Contractor shall submit a schedule which will satisfy the following criteria:

Limit the amount of exposed area to those areas in which work is expected to be undertaken during the proceeding 7 days.

During the construction process, all disturbed areas shall be temporarily covered with mulch within 3 days of final grading if not otherwise available for final riprap, planting bed or sod treatment.

Once final grades have been established, the contractor may choose to dormant seed the disturbed areas prior to placement of mulch and placement of fabric netting anchored with staples.

If dormant seeding is used for temporary stabilization of the site, all disturbed areas shall receive 6" of loam and seed at an application rate of 6#/1000 s.f.

All areas seeded during the winter months will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 90 percent catch) shall be revegetated by replacing loam, seed and mulch.

If dormant seeding is not used for the site, all disturbed areas shall be revegetated with temporary seeding or permanent landscaping and sod in the spring.

The area of denuded non-stabilized construction shall be limited to the minimum area practicable. An area shall be considered to be denuded until the subbase gravel is installed in sidewalk areas, the base slab gravel is installed in building areas, or the areas of future landscape treatment have been loamed, seeded, and mulched or fully sodded. The mulch rate shall be twice the rate specified. [For example, 115#/1,000 s.f. x 2 = 230#/1,000s.f.]

The Contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions at no extra expense to the owner.

PERMANENT SEEDING PLAN - LOW MAINTENANCE- #15 & #25 CRESCENT STREET SITES

Project CRESCENT HEIGHTS
 Site Location Portland, Maine

1. Area to be seeded: <1 acre, OR 20M Sq. Ft.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: #/acres, OR 138#/M Sq. Ft.

4. Fertilize with pounds of N-P-K/ac. OR 20 pounds of 10-20-20 N-P-K/M Sq. Ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

- 30% Creeping Red Fescue
- 35% Tall Fescue
- 20% Perennial Ryegrass
- 15% Annual Ryegrass

7. Mulching instructions: Apply at the rate of tons per acre. OR 115 pounds per M. Sq. Ft.

	Amount/Unit	#, Tons, Etc.
8. TOTAL LIME	138 #/1000 sq. ft.	
9. TOTAL FERTILIZER	20 #/1000 sq. ft.	
10. TOTAL SEED	6 #/1000 sq. ft.	
11. TOTAL MULCH	115 #/1000 sq. ft.	
12. TOTAL other materials, seeds, etc.		
13. REMARKS		

Spring seeding is recommended, however, late summer (prior to September 1) seeding can be made. Permanent seeding should be made prior to October 15 or as a dormant seeding after the first killing frost and before the first snowfall. If seeding cannot be done within these seeding dates, temporary seeding and mulching shall be used to protect the site. Permanent seeding shall be delayed until the next recommended seeding period.

Fertilizer and lime requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer and lime application rates to the owner

TEMPORARY SEEDING PLAN (APPLICABLE TO BOTH #15 CRESCENT STREET AND #25/ #29 CRESCENT STREET)

Project CRESCENT HEIGHTS
 Site Location Portland, Maine

1. Area to be seeded: <1 acre, OR 20M Sq. Ft.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: #/acres, OR 138#/M Sq. Ft.

4. Fertilize with pounds of N-P-K/ac. OR 20 pounds of 10-20-20 N-P-K/M Sq. Ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

- 50% Perennial Ryegrass
- 50% Annual Ryegrass

When using small grain as nurse crop seed it at one-half the normal seeding rate.

7. Mulching instructions: Apply at the rate of tons per acre. OR 230 pounds per M. Sq. Ft.

	Amount/Unit	#, Tons, Etc.
8. TOTAL LIME	138 #/1000 sq. ft.	
9. TOTAL FERTILIZER	20 #/1000 sq. ft.	
10. TOTAL SEED	2 #/1000 sq. ft.	
11. TOTAL MULCH	230 #/1000 sq. ft.	
12. TOTAL other materials, seeds, etc.		
13. REMARKS		

Recommended seeding dates after August 15. For areas with slopes >10% and fall and winter erosion control areas, mulch netting shall be used per manufacturer's specifications.

Fertilizer requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer application rates to the owner

SPECIFICATIONS AND REQUIREMENTS FOR DEWATERING

THIS PROJECT MAY REQUIRE THE DISCHARGE OF CONSTRUCTION DEWATERING AND TURBID LADEN RUNOFF TO BE DIRECTED AND DISCHARGED THROUGH A DIRTBAG, WITHIN A DEWATERING SUMP.

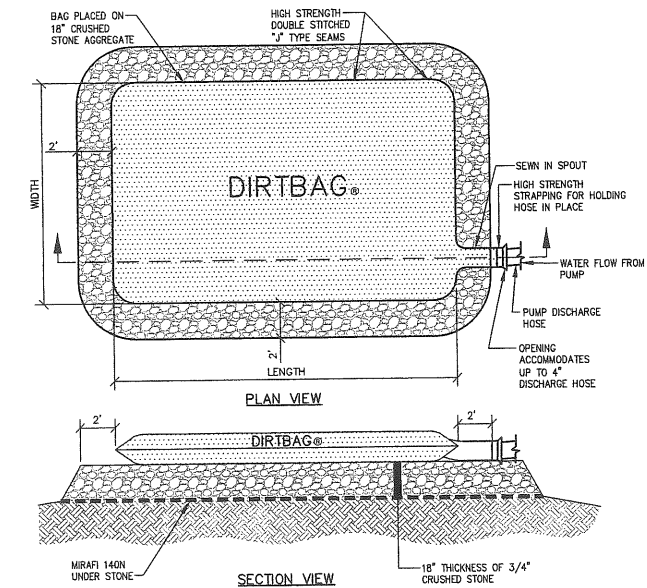
REQUIREMENTS FOR DIRTBAGS:

AT ALL TIMES THERE MUST BE AN UNUSED DIRTBAG AVAILABLE FOR EMERGENCY USE.

AT ALL TIMES (AFTER INITIAL SITE PREPARATION), THE CONTRACTOR SHALL HAVE ONE DIRTBAG ACTIVE OR READY FOR USE. THE DIRTBAGS SHALL BE FIELD LOCATED BY THE CONTRACTOR. THE DIRTBAG SHALL BE INSTALLED ON A PREPARED SUBGRADE. THIS SUBGRADE SHALL CONSIST OF THE INSTALLATION OF A LAYER OF MIRAFI 140N, AND 18 INCHES OF 3/4" INCH CRUSHED STONE. THE PLAN DIMENSION OF THE CRUSHED STONE PAD SHALL EXCEED THE PLAN AREA OF THE DIRTBAG BY AT LEAST TWO FEET IN ALL DIRECTIONS. THE DIRTBAG SHALL NOT BE INSTALLED ON AN UNDERLYING SLOPE OF GREATER THAN 15 PERCENT.

CONSTRUCTION DEWATERING OPERATIONS:

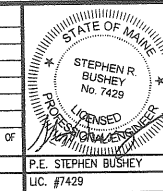
ALL CONSTRUCTION-DEWATERING OPERATIONS ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR. IT SHALL BE THE SITE CONTRACTOR WHO IS RESPONSIBLE FOR SELECTING THE SITE FOR THE DIRTBAG, THE SELECTION OF THE USE OF THE DIRTBAG OR THE SEDIMENTATION BASIN FOR DIRECTING DEWATERING, EXCEPT THAT THE OWNER MAY DIRECT THE SITE CONTRACTOR TO ALTER THE SELECTED OPERATION IF TURBID DISCHARGE IS OBSERVED.



DIRTBAG DETAIL & SPECIFICATIONS
 N.T.S.

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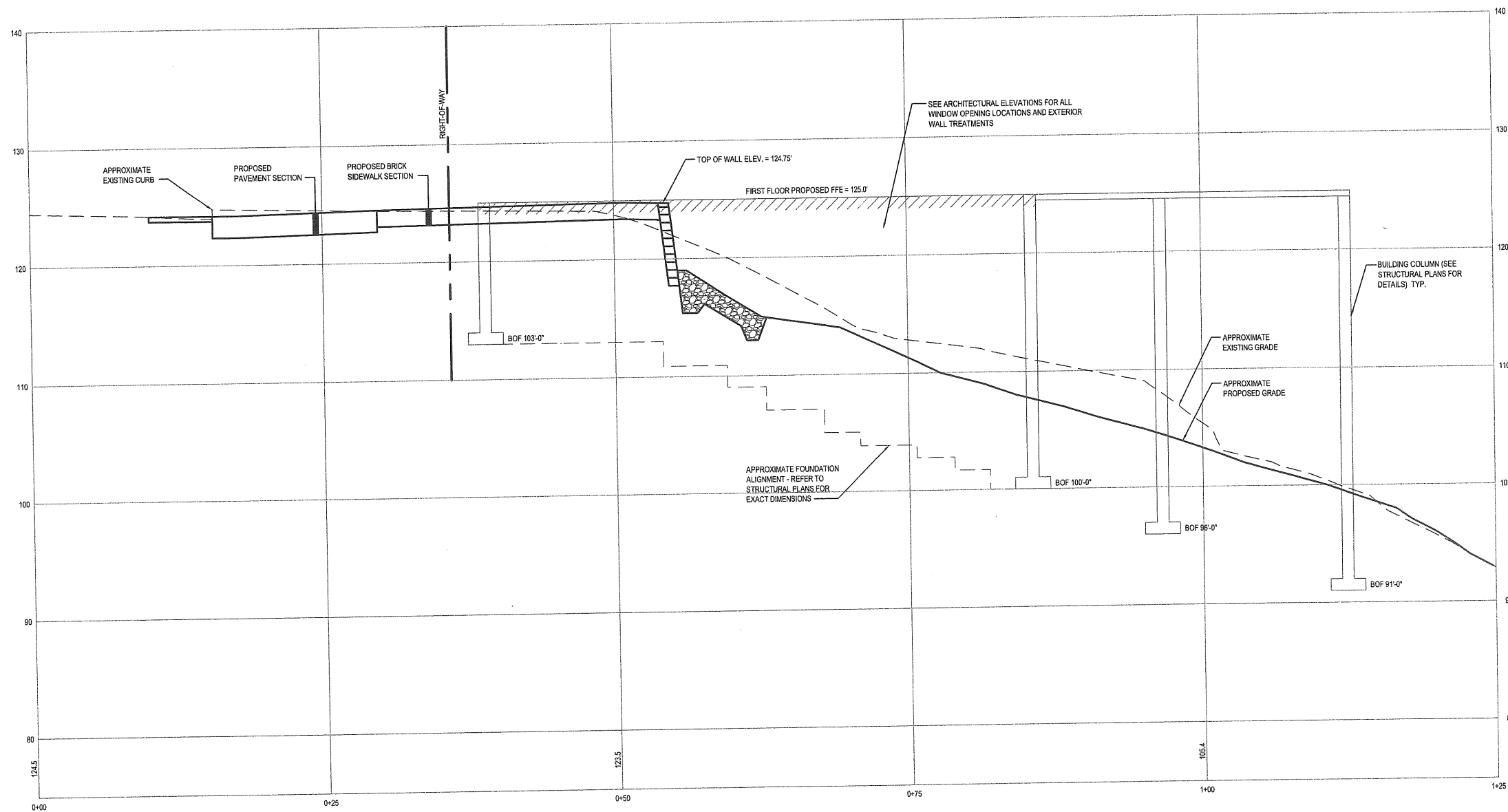
REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
5	02.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND	
3	11.18.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	08.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT	CRESCENT HEIGHTS
SHEET TITLE	EROSION AND SEDIMENT CONTROL NOTES
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM	DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: AS NOTED CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-DET SHEET: C-15
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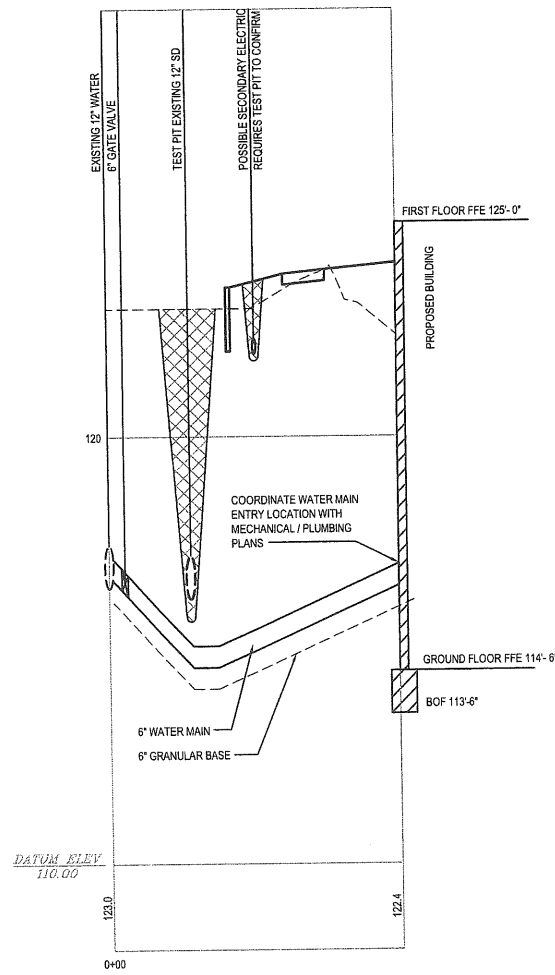
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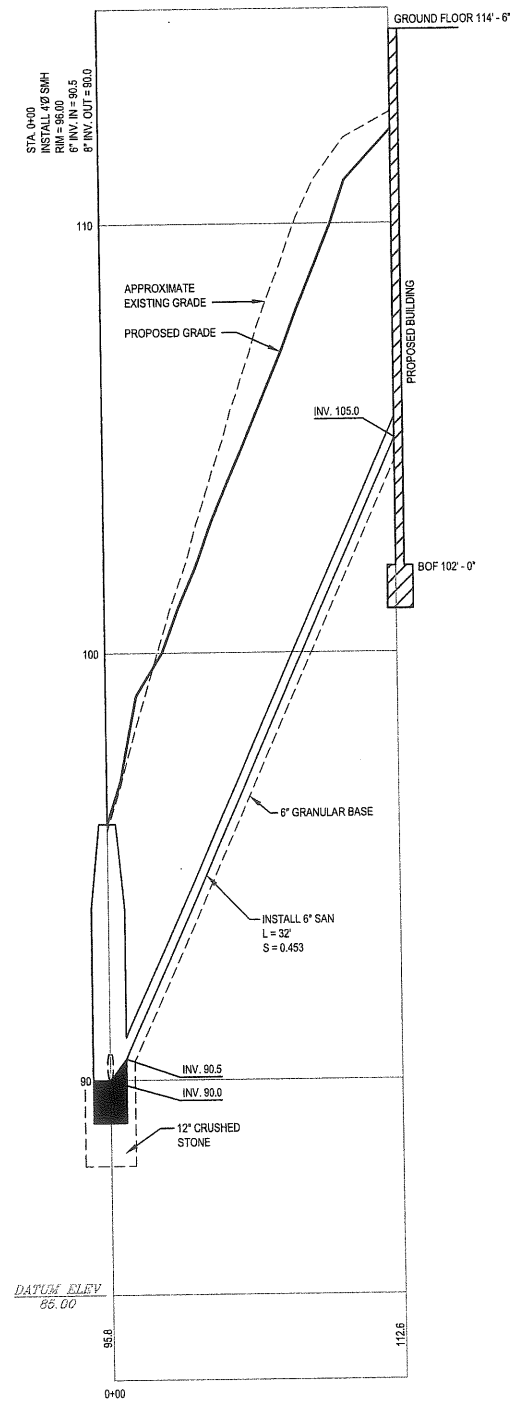
SITE CROSS SECTION
SCALE: H: 1" = 5'; V: 1" = 5'

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2	04.02.09	RELEASED FOR BIDDING									
1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW									
REVISIONS			SHEET TITLE SITE CROSS SECTION (FOR REFERENCE ONLY)								
CLIENT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS			DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: AS NOTED CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-SP SHEET C-16								

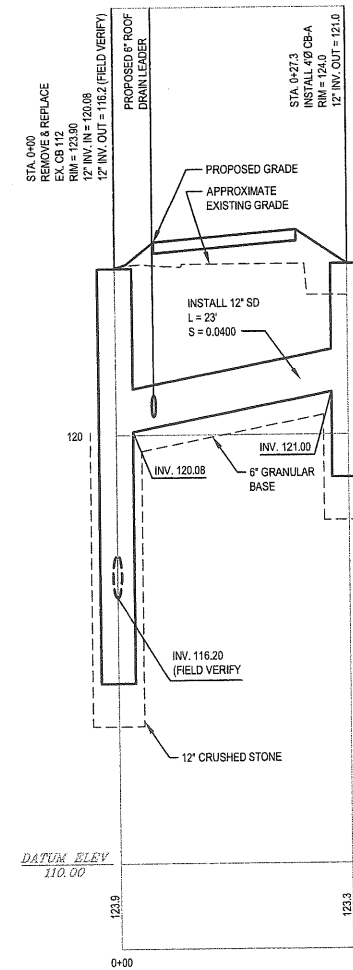
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WATER MAIN PROFILE A
SCALE: H: 1" = 10'; V: 1" = 2'



SANITARY SEWER PROFILE A
SCALE: H: 1" = 10'; V: 1" = 2'



STORMDRAIN PROFILE A
SCALE: H: 1" = 10'; V: 1" = 2'

REV	DATE	DESCRIPTION
2	04.02.09	RELEASED FOR BIDDING
1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW
		REVISIONS

STATE OF MAINE
STEPHEN R. BUSHEY
No. 7429
P.E. STEPHEN BUSHEY
LIC. #7429

PROJECT: CRESCENT HEIGHTS
SHEET TITLE: UTILITY PROFILES
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET: C-17

GENERAL NOTES:

- THIS PROJECT IS SUBJECT TO THE TERMS AND CONDITIONS OF ALL REGULATIONS ADMINISTERED BY THE LOCAL UTILITY COMPANIES AND THE CITY OF PORTLAND.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF THE ENTRANCES, EXITS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE POINTS.
- ALL REQUIRED AND NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL SERVICE CONNECTIONS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE (1-888-DIGSAFE). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO PROJECT CONTRACT SPECIFICATIONS, AND THE CITY OF PORTLAND TECHNICAL STANDARDS, WHICHEVER IS MORE STRINGENT.
- TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION WAS PROVIDED BY OWEN HASKELL, INC. IN JUNE 2008. BENCHMARK IS LOCATED AT CORNER OF BRAMHALL AND HILL STREETS AS SHOWN IN LOCATION MAP OF BOUNDARY SURVEY.
- FEMA MAP COMMUNITY PANEL NUMBER 2300510013B. THE SITE IS LOCATED IN C ZONE.
- THE PROPERTY SHOWN ON THIS PLAN MAY BE DESCRIBED AND USED ONLY AS DEPICTED IN THIS APPROVED PLAN. ALL ELEMENTS AND FEATURES OF THE PLAN AND ALL THE PROPERTY WHICH APPEARS IN THE RECORD OF THE PLANNING BOARD PROCEEDINGS ARE CONDITIONS OF THE APPROVAL. NO CHANGE FROM THE CONDITIONS OF APPROVAL IS PERMITTED UNLESS AN AMENDED PLAN IS FIRST SUBMITTED TO AND APPROVED BY THE PLANNING AUTHORITY.
- ALL SIGNAGE SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL CURB SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS NOTED ON THE PLANS: GRANITE AND BITUMINOUS CONCRETE CURB SHALL MEET THE REQUIREMENTS OF MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS 609.03 AND 609.04 AND CITY OF PORTLAND TECHNICAL STANDARDS.
- ALL DIMENSIONING UNLESS OTHERWISE NOTED IS TO THE FACE OF CURB OR FACE OF BUILDING.
- THE FACILITY IS SERVICED BY PUBLIC WATER, SEWER, NATURAL GAS AND UNDERGROUND POWER.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE CITY OF PORTLAND PUBLIC WORKS INSPECTION SERVICES DIVISION (874-8300 EXT. 8838), CODE ENFORCEMENT OFFICE AND DEVELOPMENT REVIEW COORDINATOR IN WRITING THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. A PRECONSTRUCTION MEETING MAY BE REQUIRED TO INCLUDE THE PUBLIC WORKS AUTHORITY OR DEVELOPMENT REVIEW COORDINATOR.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
- WARNING SIGNS, MARKERS, BARRICADES OR FLAGMEN MUST BE EMPLOYED ON ADJACENT STREETS AS NECESSARY.
- CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED AND DISPOSED OF IN ACCORDANCE WITH THE CITY OF PORTLAND'S SOLID WASTE ORDINANCE CHAPTER 12. ALL DEMOLITION MATERIAL FROM THE PROJECT SITES SHALL BE TAKEN TO THE RIVERSIDE RECYCLING FACILITY OR AS OTHERWISE DIRECTED PENDING THE RESULTS OF A HAZARDOUS BUILDING MATERIALS SURVEY AS AUTHORIZED AND COORDINATED BY THE OWNER. ALL SALVAGED MATERIAL WITHIN THE PUBLIC R.O.W. (SIDEWALKS, BRICKS, GRANITE CURB) NOT REUSED SHALL BE DISPOSED OF AS DIRECTED BY THE PORTLAND PUBLIC SERVICES DEPARTMENT AT NO EXTRA COST TO THE OWNER.
- ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED AT ALL TIMES DURING CONSTRUCTION TO INSURE INTEGRITY. IF DISTURBED THEY SHALL BE REPLACED BY A SURVEYOR REGISTERED IN THE STATE OF MAINE AT THE CONTRACTOR EXPENSE.
- THE OWNER SHALL BE RESPONSIBLE TO COORDINATE THE PERFORMANCE OF A HAZARDOUS MATERIALS INSPECTION OF THE EXISTING PROPERTIES.
- A STREET OPENING PERMIT MUST BE OBTAINED FROM THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED IN CONFORMANCE TO THE CITY'S RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS.
- CONTRACTOR MUST MAINTAIN THROUGH TRAFFIC ON CRESCENT AND WESCOTT STREETS AT ALL TIMES.
- ALL METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS IDENTIFIED HEREIN SHALL CONFORM TO THE CITY OF PORTLAND CONSTRUCTION AND TECHNICAL STANDARDS AND SPECIFICATIONS AND/OR CURRENT MDOT STANDARDS AND SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- SITE WORK FOR BUILDING SHALL INCLUDE GRADING THE BUILDING PAD AREA (DEFINED AS THE BUILDING FOOTPRINT PLUS 5'-0" BEYOND THE EXTERIOR WALL) TO A GRADE 18" BELOW THE GROUND FLOOR FINISH ELEVATION. ALL WORK SHALL INCLUDE EXCAVATION (INCLUDING ROCK REMOVAL AND EXISTING FOUNDATION DEMOLITION) AND BACKFILL OF ALL FOOTINGS AND FOUNDATIONS, INSTALLATION OF PERIMETER FOUNDATION DRAINS, EXCAVATION AND BACKFILL OF ALL UNDERSLAB UTILITIES AND PLACEMENT OF ALL AGGREGATES BELOW THE FLOOR SLAB AND ADJACENT THE FOUNDATION WALLS IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS.
- RECORD DRAWINGS REQUIRE ALL BURIED UTILITIES INCLUDING, BUT NOT LIMITED TO, BENDS, APPURTENANCES, AND OTHER FEATURES TO BE LOCATED BY COORDINATE INFORMATION TO BE RECORDED BY THE CONTRACTOR AND SUPPLIED TO THE OWNER AT THE END OF THE PROJECT.

ZONING SUMMARY

ZONING: RESIDENTIAL - 6
PERMITTED USES:

- RESIDENTIAL:
- SINGLE-FAMILY, TWO-FAMILY AND MULTI-FAMILY DWELLING UNIT
 - HANDICAPPED FAMILY UNIT
 - SINGLE-FAMILY, SINGLE-FAMILY AND MULTIPLE FAMILY COMPONENT MANUFACTURED HOUSING

- OTHER:
- LODGING HOUSE
 - CEMETERIES
 - PARKS AND NON-COMMERCIAL RECREATION SPACE
 - ACCESSORY USES INCIDENTAL TO PRINCIPLE USES
 - HOME OCCUPATION
 - MUNICIPAL USES
 - SPECIAL NEEDS INDEPENDENT LIVING UNITS
 - CONVERSION TO BED AND BREAKFAST (UP TO 4 BEDROOM)

DIMENSIONAL STANDARD	REQUIRED DIMENSION	PROVIDED DIMENSION
MINIMUM LOT SIZE	4,500 SF	13,926.8 SF
MINIMUM AREA PER RESIDING UNIT	250 SF - 44 BEDS @ 250 SF. = 11,000 SF	19,163 SF TOTAL
MINIMUM STREET FRONTAGE	40 FEET	113.07 FEET
MINIMUM FRONT YARD	10 FEET OR THE AVERAGE DEPTH OF THE FRONT YARD ON EITHER SIDE. AVERAGE DEPTH = 1 FOOT	2 FEET
MINIMUM REAR YARD	20 FEET	24 FEET
MINIMUM SIDE YARD	4 STORY-12 FEET, 5 STORY - 15 FEET THE WIDTH OF ONE SIDE YARD MAY BE REDUCED 1 FT. FOR EVERY FOOT THAT THE OTHER SIDE IS CORRESPONDINGLY INCREASED, BUT NO SIDE YARD SHALL BE LESS THAN 10 FEET.	12 FEET
MAXIMUM LOT COVERAGE	40% FOR LOTS CONTAINING 20 OR MORE UNITS, 50% FOR LOTS CONTAINING FEWER THAN 20 UNITS.	38.29%
MINIMUM LOT WIDTH	30 FEET	74 FEET
MAXIMUM STRUCTURE HEIGHT	45 FEET	45 FEET*
OPEN SPACE RATIO	20% FOR LOTS CONTAINING FEWER THAN 20 UNITS AND 30% FOR LOTS CONTAINING 20 UNITS OR GREATER.	48.70%

BUILDING SUMMARY

FOOTPRINT: 4908 S.F.
TOTAL: 19,163 S.F.
BEDS: 44
UNITS: 11
STORES: 4

* COMPLIANCE WITH CODE SECTION 14-139(4) RELATED TO BUILDING HEIGHT HAS BEEN CONFIRMED BY WINTON SCOTT ARCHITECTS UNDER SEPARATE CORRESPONDENCE WITH THE PORTLAND CODE ENFORCEMENT OFFICE.

GRADING & DRAINAGE NOTES:

- ALL STORM DRAIN PIPE SHALL BE SMOOTH BORE INTERIOR PROVIDING A MANNINGS ROUGHNESS COEFFICIENT OF $n = 0.013$ OR LESS, UNLESS A SPECIFIC PIPE MATERIAL IS CALLED FOR ON THE CONTRACT DRAWINGS. PVC PIPING SHALL NOT BE USED IN AREAS OF EXPOSED SUNLIGHT.
- SLOPE PROTECTION IS TO BE PROVIDED PER THE DESIGN PLANS AND MAY INCLUDE RIPRAP, SOD OR MULCH.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EARTHWORK OPERATIONS TO INSURE THAT DISTURBANCE TO THE STEEP SLOPE AREAS ARE MINIMIZED TO THE EXTENT PRACTICABLE.
- THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY OTHERS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-DIGSAFE) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.
- ALL PAVING WITHIN THE PUBLIC R.O.W. SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC R.O.W.
- NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
- CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES AND PHYSICAL FEATURES THAT ARE OUTSIDE THE SCOPE OF WORK. THE CONTRACTOR SHALL MAINTAIN SITE STABILITY DURING CONSTRUCTION TO AVOID EROSION AND SEDIMENT TRANSPORT. CONTRACTOR SHALL RESTORE ALL AREAS TO A FINAL STABILIZED CONDITION AS DIRECTED BY DESIGN DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
- EXTERIOR GRADES AROUND PROPOSED STRUCTURE SHALL BE COORDINATED WITH FINAL BUILDING PLANS AND PROVIDE FOR ALL ACCESS OPENINGS.
- SUBGRADE FILL PLACED BENEATH ALL PERMANENT PAVEMENT, SIDEWALK OR CONCRETE SURFACES EXCLUDING ANY BUILDING AREAS, SHALL BE GRANULAR BORROW. SUBGRADE FILL PLACED BENEATH ALL LANDSCAPE AREAS EXCEPT THOSE ADJACENT THE FOUNDATION SYSTEMS MAY BE A COMMON BORROW MATERIAL SUITABLE FOR EMBANKMENT. THOSE ADJACENT THE FOUNDATION SYSTEMS MAY BE A COMMON BORROW MATERIAL SUITABLE FOR EMBANKMENT. VEGETATION AND OTHER MATERIAL UNSUITABLE FOR ROADWAY AND SUBGRADE CONSTRUCTION, EXCAVATED ON-SITE MATERIALS MAY BE USED FOR FILL PROVIDED THE MATERIAL IS FREE FROM UNSUITABLE MATERIAL DESCRIBED IN THIS NOTE AND UPON APPROVAL OF THE ENGINEER. EXCAVATED ON-SITE MATERIALS MAY NOT BE USED AS COMPACTED STRUCTURAL FILL BENEATH THE BUILDING AREAS OR AS FOUNDATION BACKFILL. GRANULAR BORROW AND COMMON BORROW SHALL COMPLY WITH THE MDOT SPECIFICATIONS.
- ALL FILLS SHALL BE PLACED IN LAYERS NOT MORE THAN 12" LOOSE DEPTH AND COMPACTED BY HEAVY COMPACTION EQUIPMENT. MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ASTM 1557, MODIFIED AND FIELD DENSITY ASTM D2922 (NUCLEAR METHODS).

EROSION CONTROL NOTES:

- LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
- PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND THE STABILIZED CONSTRUCTION ENTRANCES.
- SILT BARRIERS SHALL BE INSPECTED, REPAIRED AND CLEANED AS NOTED IN THE EROSION CONTROL NOTES SHOWN ON THE EROSION CONTROL DETAIL SHEET.
- THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCES AS THEY BECOME SATURATED WITH MUD TO ENSURE THAT THEY WORK AS PLANNED DURING CONSTRUCTION AND SHALL KEEP CRESCENT STREET CLEAR OF DIRT AND MUD.
- SILT REMOVED FROM AROUND INLETS AND BEHIND THE SILT FENCES SHALL BE PLACED ON A TOPSOIL STOCKPILE AND MIXED INTO IT FOR LATER USE IN LANDSCAPING OPERATIONS.
- CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST THREE (3) BUT NOT MORE THAN (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 MRSA 5369-A.
- IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AS SPECIFIED ON PLANS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PUBLISHED BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 1991 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.

UTILITY NOTES:

- ALL REQUIRED UTILITIES SERVING THE PROJECT SHALL BE COORDINATED BETWEEN THE SITE WORK CONTRACTOR AND DIVISION 22/26 CONTRACTOR(S). THE SITE WORK CONTRACTOR SHALL BE RESPONSIBLE TO EXTEND ALL PROPOSED UTILITIES TO WITHIN FIVE (5) FEET OF THE BUILDING TO A LOCATION COORDINATED WITH THE MECHANICAL AND ELECTRICAL SUBCONTRACTORS. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES WITHIN FIVE (5) FEET AND INSIDE THE BUILDING OR UNDER SLAB.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF AND/OR RELOCATION OF OVERHEAD AND UNDERGROUND TELEPHONE WITH FAIRPOINT COMMUNICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUITS, PULL WIRES, TRENCHING AND BACKFILLING NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRIC SERVICE WITH CENTRAL MAINE POWER; THE TELECOMMUNICATIONS SERVICE WITH FAIRPOINT COMMUNICATIONS AND CABLE SERVICE WITH TIME WARNER CABLE. ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS OR UTILITY COMPANY STANDARDS, WHICHEVER IS MORE STRINGENT.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
- THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL, AT NO EXTRA EXPENSE TO THE OWNER.
- A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18 INCH OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER AND SANITARY SEWER CROSSINGS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO THE JOBSITE. TEMPORARY SERVICES SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. COORDINATE ALL TEMPORARY SERVICES WITH UTILITY COMPANY, OWNER AND AFFECTED BUSINESSES.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL SERVICES IN CONDUIT TO SITE LIGHTING, COMPLYING WITH APPLICABLE CODES, COORDINATE WITH OWNER AND ARCHITECTURAL AND CMP PLANS.
- ALL SANITARY SERVICES AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT. ALL SANITARY SERVICES AND APPURTENANCES TO BE ABANDONED SHALL BE PROPERLY RECORDED WITH PORTLAND PUBLIC WORKS ENGINEERING DEPARTMENT. A DIGITAL VIDEOTAPE SHALL BE MADE OF SANITARY SEWER SYSTEMS TO BE UTILIZED PRIOR TO CONSTRUCTION; UPSTREAM PIPES INTENDED FOR ABANDONMENT SHALL BE INSPECTED TO VERIFY THAT THEY NO LONGER SERVE OTHER FACILITIES.
- THE DEMOLITION CONTRACTOR SHALL OBTAIN A SEAL DRAIN PERMIT FROM THE DEPARTMENT OF PUBLIC SERVICES PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT, SUCH WORK TO BE PERFORMED UNDER SEPARATE CONTRACT. THE SEWER LATERALS SHALL BE SEALED BY THE DEMOLITION CONTRACTOR OUTSIDE OF THE BUILDINGS AND INSPECTED PRIOR TO THE BUILDING DEMOLITION THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE TO SEAL AND INSPECT THE UNUSED SEWER LATERALS AT THE SEWER MAIN.

SITE & SUBGRADE PREPARATION NOTES

EXCERPT FROM GEOTECHNICAL REPORT 08-0744 DATED OCTOBER 24, 2008 PREPARED BY S.W. COLE ENGINEERING, INC.
NOTEWELL: ALL FOUNDATION PREPARATION SHALL BE COORDINATED WITH THE STRUCTURAL DESIGN PLANS PREPARED BY BECKER STRUCTURAL ENGINEERS.

SITE PREPARATION SHOULD BEGIN WITH THE CONSTRUCTION OF AN EROSION CONTROL SYSTEM TO PROTECT ADJACENT DRAINAGE WAYS AND AREAS OUTSIDE THE CONSTRUCTION LIMITS. PROPOSED CONSTRUCTION AREAS SHOULD BE CLEARED AND GRUBBED OF ALL ORGANIC MATTER AND TOPSOIL. AS MUCH VEGETATION AS POSSIBLE SHOULD REMAIN OVER INACTIVE AREAS OF CONSTRUCTION TO LESSEN THE POTENTIAL FOR EROSION AND SITE DISTURBANCE. S.W. COLE RECOMMENDS THAT EXISTING FOUNDATIONS, SLABS AND BURIED UTILITIES BENEATH THE PROPOSED BUILDING FOOTING PRINT BE COMPLETELY REMOVED AND BACKFILLED WITH COMPACTED STRUCTURAL BACKFILL.

TERRACE AREA OF BUILDING PAD:

BASED ON THE SUBSURFACE FINDINGS AND S.W. COLE'S UNDERSTANDING OF THE PROPOSED CONSTRUCTION, S.W. COLE ANTICIPATES THAT FOOTINGS ON THE UPPER TERRACE OF THE SITE, GENERALLY WITHIN THE FOOTPRINT OF THE EXISTING BUILDINGS, WILL ENCOUNTER MEDIUM DENSE TO DENSE GLACIAL TILL SOILS OR COMPACTED STRUCTURAL BACKFILL. FOR FOOTINGS IN THIS AREA, S.W. COLE RECOMMENDS THAT EXCAVATION BE COMPLETED WITH A SMOOTH-EDGED BUCKET AND SUBGRADES BE PROTECTED WITH 6 INCHES OF CRUSHED STONE PLACED OVER WOVEN GEOTEXTILE FABRIC SUCH AS MIRAFI 500X.

SLOPING AREA OF BUILDING PAD:

BASED ON THE SUBSURFACE FINDINGS AND S.W. COLE'S UNDERSTANDING OF THE PROPOSED CONSTRUCTION, THEY ANTICIPATE THAT FOOTINGS ON THE SLOPING PORTION OF THE SITE WILL ENCOUNTER SURFICIAL FILLS THAT ARE UNSUITABLE FOR DIRECT FOUNDATION SUPPORT. FOR FOOTING SUBGRADES IN THE SLOPE AREA OF THE BUILDING PAD, S.W. COLE RECOMMENDS REMOVING THE EXISTING FILLS DOWN TO DENSE GLACIAL TILL AND BACKFILLING WITH COMPACTED STRUCTURAL FILL. REMOVING AND BACKFILLING THE UNSUITABLE SOILS WILL REQUIRE DISPLACING SOIL FROM THE SITE AND IMPORTING SUITABLE STRUCTURAL FILL. THE LIMITS OF EXCAVATION FOR UNSUITABLE FILL REMOVAL SHOULD EXTEND 1 FOOT Laterally OUTWARD FROM THE BUILDING FOOTPRINT FOR EACH FOOT OF EXCAVATION DEPTH, UNLESS FOOTINGS ARE FOUNDED AT THE ELEVATION OF DENSE GLACIAL TILL.

FOUNDATION DRAINAGE:

WE RECOMMEND THAT FOUNDATION UNDERDRAINS BE PROVIDED AROUND THE EXTERIOR OF PERIMETER FOUNDATIONS AS WELL AS BELOW INTERIOR PORTIONS OF BASEMENT SLABS ON THE UPSLOPE SIDE OF THE PROPOSED BUILDING. THE UNDERDRAINS MAY CONSIST OF 6-INCH DIAMETER HOPE UNDERDRAIN PIPE WITH FILTER SOCK ENVELOPED IN AT LEAST 6 INCHES OF UNDERDRAIN SAND AND GRAVEL MEETING THE REQUIREMENTS OF STRUCTURAL FILL AS GIVEN HEREIN. THE UNDERDRAINS SHOULD BE INSTALLED AT FOOTING SUBGRADE ELEVATION AND ROUTED TO A POSITIVE GRAVITY OUTLET. ROOF DRAINS MUST BE ROUTED IN SEPARATE WATERTIGHT PIPES.

ENTRANCE SLABS AND SIDEWALKS:

CLEAN, NON-FROST SUSCEPTIBLE SAND AND GRAVEL MEETING THE REQUIREMENTS OF STRUCTURAL FILL SHALL BE PROVIDED TO A DEPTH OF AT LEAST 4.5 FEET BELOW THE TOP OF ENTRANCE SLABS. THIS THICKNESS OF STRUCTURAL FILL SHOULD EXTEND THE FULL WIDTH OF THE ENTRANCE SLABS AND OUTWARD AT LEAST 4.5 FEET, THEREAFTER TRANSITIONING UP TO BOTTOM ADJACENT SIDEWALK OR PAVEMENT SUBBASE GRAVEL AT A 3H:1V OR FLATTER SLOPE. SEE DETAIL G ON SHEET C-13B FOR FURTHER INFORMATION.

ON-GRADE FLOOR SLABS:

ON-GRADE FLOOR SLABS IN HEATED SPACES MAY BE DESIGNED USING A SUBGRADE REACTION MODULUS OF 150 PCI PROVIDED THE SLAB IS UNDERLAIN BY AT LEAST 12 INCHES OF STRUCTURAL FILL OVERLYING A PROPERLY PREPARED SUBGRADE. ALL EXISTING UNSUITABLE FILLS BELOW THE SLAB IN THE SLOPING AREA OF THE SITE SHOULD BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

BACKFILL AND COMPACTION:

BASED ON THE SURFACE FINDINGS, THE EXISTING SURFICIAL FILLS ARE FROST SUSCEPTIBLE AND UNSUITABLE FOR REUSE AS COMPACTED STRUCTURAL FILL BENEATH THE BUILDING AREAS AND AS FOUNDATION BACKFILL.

LEGEND

EXISTING	PROPOSED

REV	DATE	DESCRIPTION
7	04.02.09	RELEASED FOR BIDDING
6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW
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3	11.18.08	SUBMITTED TO CITY OF PORTLAND
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND

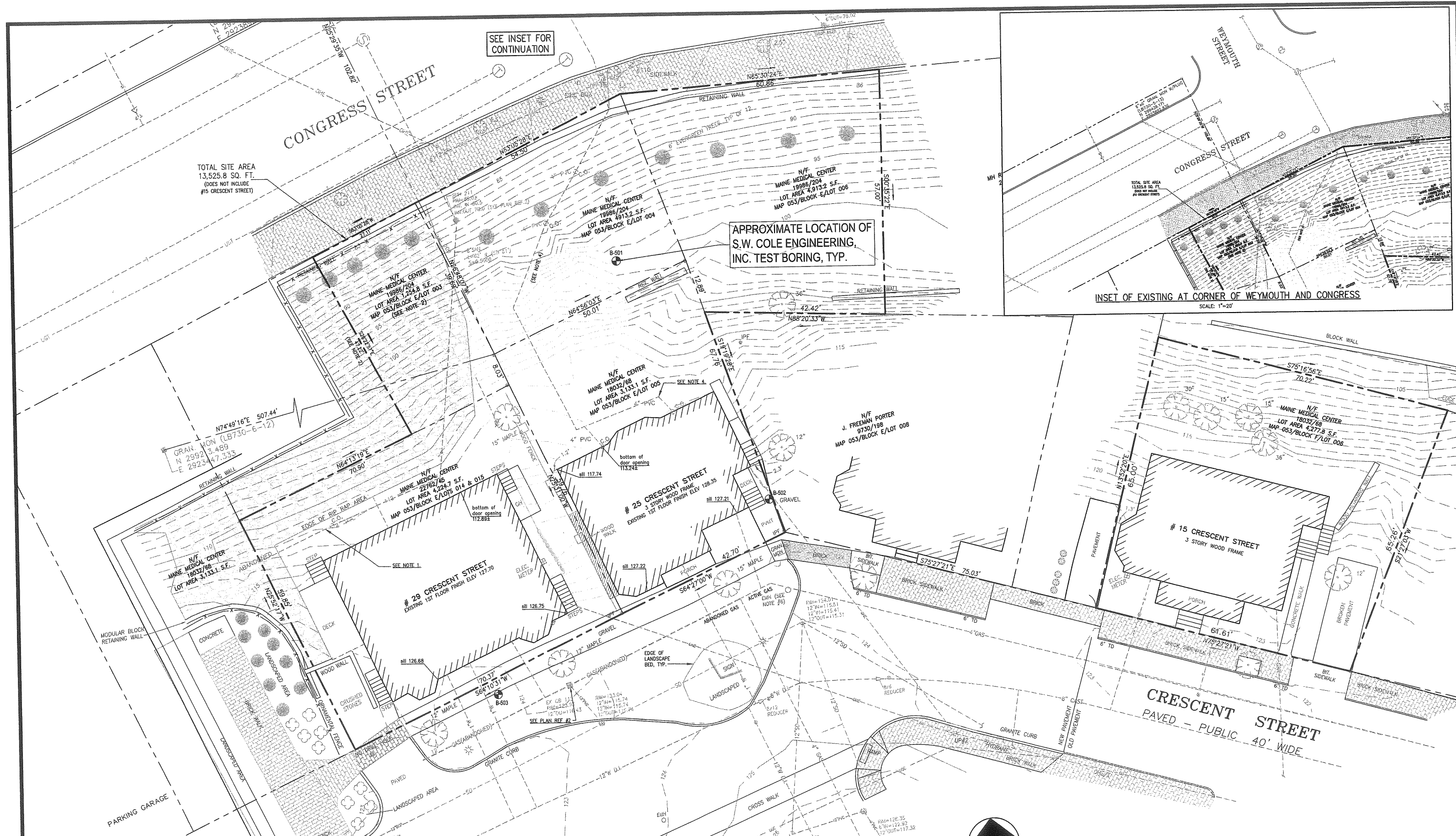
STATE OF MAINE
STEPHEN R. BUSHEY
LICENSED PROFESSIONAL ENGINEER
P.E. STEPHEN BUSHEY
LIC. #7429

PROJECT	CRESCENT HEIGHTS
SHEET TITLE	GENERAL NOTES AND LEGEND
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLuca-Hoffman Associates, Inc.
779 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-GEN.
SHEET C-2

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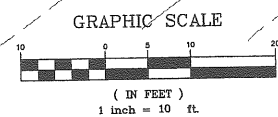


SEE INSET FOR CONTINUATION

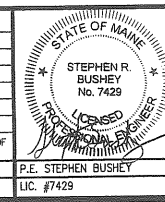
APPROXIMATE LOCATION OF S.W. COLE ENGINEERING, INC. TEST BORING, TYP.

INSET OF EXISTING AT CORNER OF WEYMOUTH AND CONGRESS
SCALE: 1"=20'

PLAN REFERENCE
 1) EXISTING CONDITIONS SURVEY BY OWEN HASKELL INC. DATED JUNE 12, 2008
 2) PORTION OF LOT DESCRIBED IN CORD BOOK 19986/ PAGE 204 CONVEYED TO CRESCENT HEIGHTS LLC BY MMC.
 3) THE EXACT LOCATION OF UNDERGROUND POWER/TELEPHONE/CABLE INTO THE EXISTING BUILDINGS IS UNKNOWN. THE ENGINEER HAS NOT ENTERED THE BUILDINGS TO DETERMINE THIS INFORMATION.
 4) SANITARY SEWER LOCATION FOR #25 TAKEN FROM CITY SEWER CARD RECORDS
 5) NO CITY SEWER RECORD AVAILABLE FOR #15 CRESCENT ST. LOCATION OF SEWER LATERAL BASED ON DIMENSIONS PROVIDED BY CITY OF PORTLAND VIDEO INSPECTION LOG REPORT DATED 7.13.99.
 6) THIS STRUCTURE IS A 4' DIA. PRECAST VAULT WITH COMMUNICATIONS WIRES OF UNKNOWN ORIGIN. IT IS UNKNOWN IF THESE FACILITIES ARE ACTIVE OR ABANDONED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND MAINTAIN THESE FACILITIES DURING CONSTRUCTION AT NO EXTRA EXPENSE TO THE OWNER.
 7) THE CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID AND TAKE NOTE THAT CERTAIN FEATURES MAY NOT BE REFLECTED ON THIS PLAN. THIS PLAN DOES NOT REFLECT CERTAIN REMARKS BY OTHERS WHICH MAY BE PERFORMED PRIOR TO THE START OF BUILDING CONSTRUCTION.



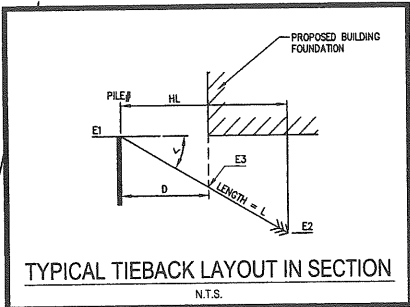
REV	DATE	DESCRIPTION
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT
CRESCENT HEIGHTS
 SHEET TITLE
EXISTING CONDITIONS
 CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
 1718 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106
 WWW.DELUCAHOFFMAN.COM
 DRAWN: DMB DATE: SEPT 2008
 DESIGNED: SRB SCALE: AS NOTED
 CHECKED: SRB JOB NO. 2827
 FILE NAME: 2827-SP
 SHEET **C-4**

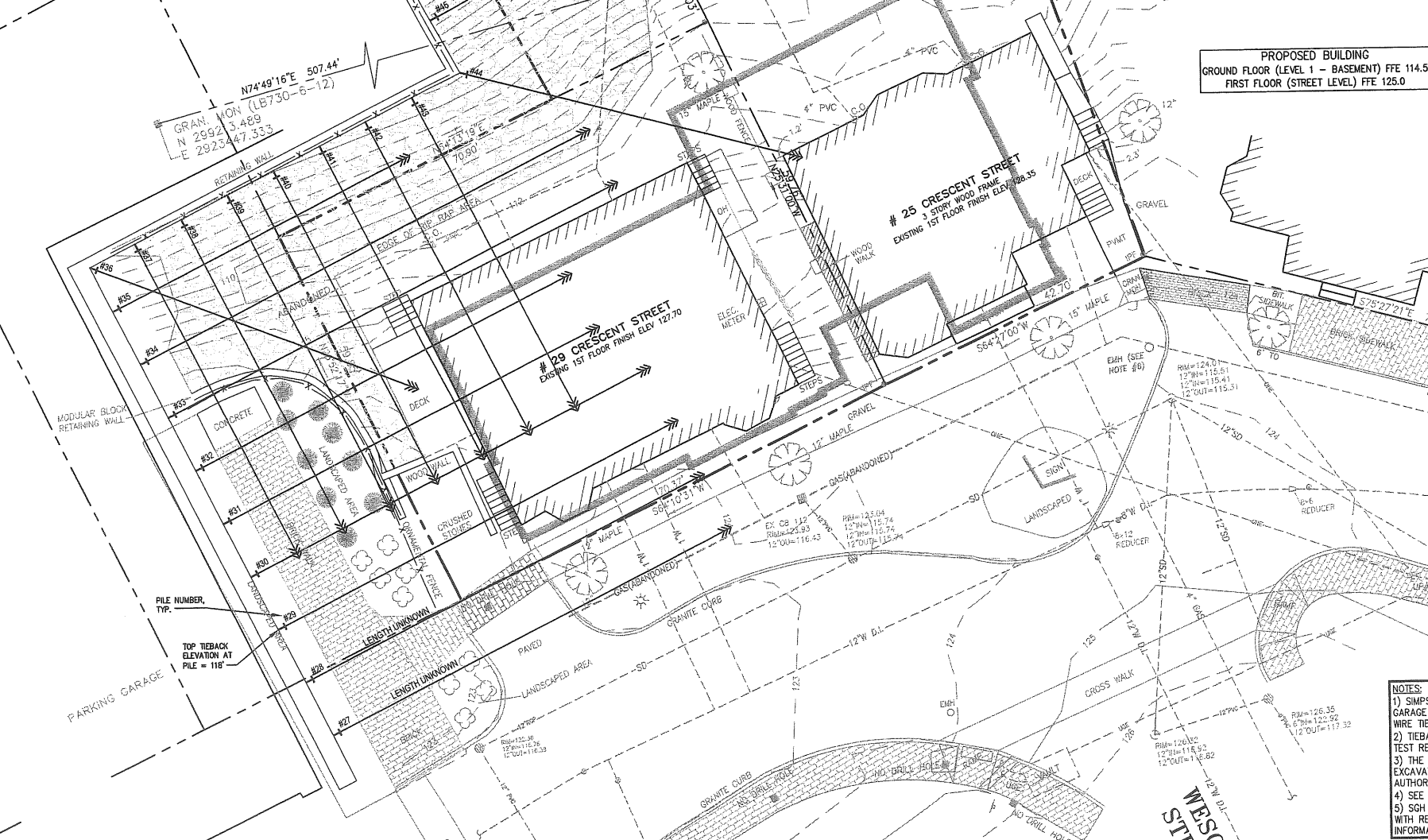
CONGRESS STREET



MAINE MEDICAL CENTER TIEBACK INFORMATION
(SEE INSET DIAGRAM ABOVE FOR EXPLANATION OF DIMENSIONS BELOW)

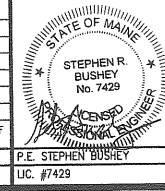
Pile #	L Anchor Length (FT)	E1 Highest Tieback Elevation (FT) at Wall	< Drillhole Angle	HL Horizontal Length (FT)	E2 Final Elevation (FT) at end of highest Tieback	D Distance to proposed Foundation (FT)	E3 Approximate highest Tieback elevation at foundation (FT)
29	69	118	15	66.6471	100.14	39	107.91
30	69	118	15	66.65	100.14	39	107.91
31	65	116	15	62.78	99.18	39	105.91
32	65	116	15	62.78	99.18	39	105.91
33	77	110	13	75.03	92.68	39	99.91
34	77	110	13	75.03	92.68		
35	52	105	17	49.73	89.80		
36	54	98	16	51.91	83.12		
37	54	98	15	52.16	84.02		
38	54	98	15	52.16	84.02		
39	54	98	13	52.62	85.86		
40	54	98	15	52.16	84.02		
41	54	98	15	52.16	84.02	29	90.4942
42	54	98	15	52.16	84.02	29	90.4942
43	54	98	15	52.16	84.02	29	90.4942
44	54	98	15	52.16	84.02	33	89.4589
45	44	90	15	42.50	78.61	25.5	83.4001
46	37	87	15	35.74	77.42		

PROPOSED BUILDING
GROUND FLOOR (LEVEL 1 - BASEMENT) FFE 114.5
FIRST FLOOR (STREET LEVEL) FFE 125.0



NOTES:
1) SIMPSON GUMPERTZ & HEGER (SGH) WERE THE ENGINEERS OF RECORD FOR MAINE MEDICAL CENTER'S 7 STORY PARKING GARAGE AND WERE RESPONSIBLE ALONG WITH SCHNABEL FOUNDATION SYSTEMS, INC. FOR THE RETAINING WALL DESIGN AND WIRE TIEBACKS.
2) TIEBACK INFORMATION WAS PROVIDED BY S.W. COLE ENGINEERING INC. AND IS BASED ON THE TIEBACK PERFORMANCE TEST REPORTS. NO INFORMATION ON TIEBACKS #27, #28, AND #47 WAS PROVIDED.
3) THE PROPOSED STRUCTURAL FOUNDATION DESIGN SHALL BE COORDINATED WITH THE EXISTING TIEBACK LOCATIONS. NO EXCAVATION ACTIVITY SHALL OCCUR WITHIN 10 FEET VERTICAL OR HORIZONTAL OF EXISTING TIEBACKS WITHOUT PRIOR AUTHORIZATION FROM THE SGH AND MMC REPRESENTATIVES.
4) SEE FOUNDATION PLAN S1 BY BECKER STRUCTURAL ENGINEERS, INC. FOR ALL FOUNDATION FOOTING ELEVATIONS.
5) SGH HAS BEEN RETAINED BY THE OWNER UNDER SEPARATE CONTRACT TO PROVIDE ENGINEERING SUPPORT AND DIRECTION WITH RESPECT TO THE EXISTING RETAINING WALL TIE-BACK SYSTEM. ALL INFORMATION ON THIS PLAN IS INTENDED FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO SUPPLANT INFORMATION OR PLANS PROVIDED BY SGH.

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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT
CRESCENT HEIGHTS

SHEET TITLE
MMC RETAINING WALL TIEBACKS

CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

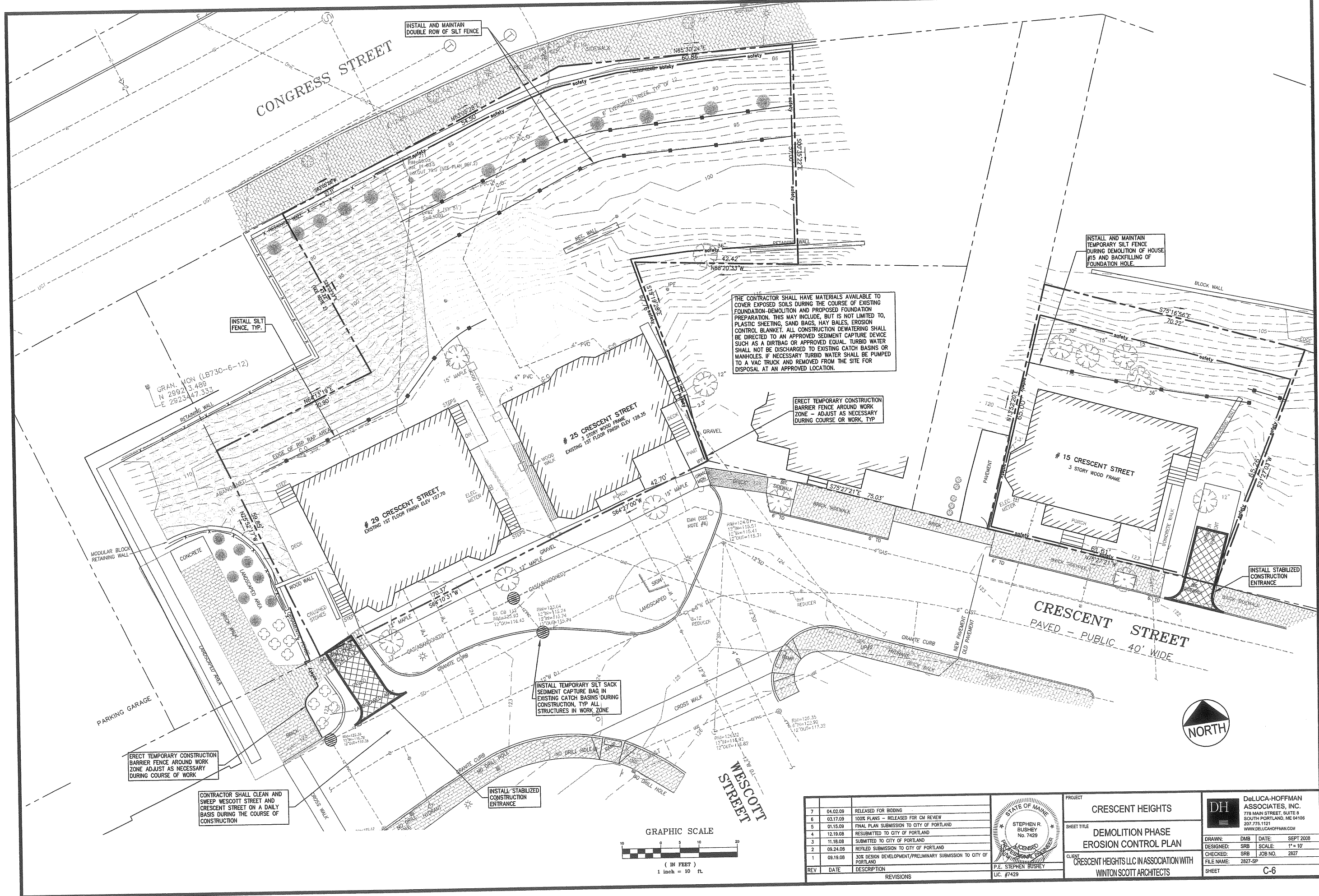
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2009
DESIGNED: SRB SCALE: 1" = 10'
CHECKED: SRB JOB NO.: 2827
FILE NAME: 2827-SP
SHEET: C-5

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INFORMATIONAL PLAN ONLY

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INSTALL SILT FENCE, TYP.

INSTALL AND MAINTAIN DOUBLE ROW OF SILT FENCE

THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE TO COVER EXPOSED SOILS DURING THE COURSE OF EXISTING FOUNDATION-DEMOLITION AND PROPOSED FOUNDATION PREPARATION. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, PLASTIC SHEETING, SAND BAGS, HAY BALES, EROSION CONTROL BLANKET. ALL CONSTRUCTION DEWATERING SHALL BE DIRECTED TO AN APPROVED SEDIMENT CAPTURE DEVICE SUCH AS A DIRTBAG OR APPROVED EQUAL. TURBID WATER SHALL NOT BE DISCHARGED TO EXISTING CATCH BASINS OR MANHOLES IF NECESSARY TURBID WATER SHALL BE PUMPED TO A VAC TRUCK AND REMOVED FROM THE SITE FOR DISPOSAL AT AN APPROVED LOCATION.

ERECT TEMPORARY CONSTRUCTION BARRIER FENCE AROUND WORK ZONE - ADJUST AS NECESSARY DURING COURSE OF WORK, TYP

INSTALL AND MAINTAIN TEMPORARY SILT FENCE DURING DEMOLITION OF HOUSE #15 AND BACKFILLING OF FOUNDATION HOLE.

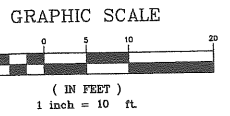
INSTALL STABILIZED CONSTRUCTION ENTRANCE

INSTALL TEMPORARY SILT SACK SEDIMENT CAPTURE BAG IN EXISTING CATCH BASINS DURING CONSTRUCTION, TYP ALL STRUCTURES IN WORK ZONE

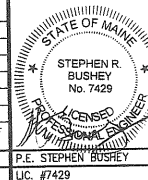
ERECT TEMPORARY CONSTRUCTION BARRIER FENCE AROUND WORK ZONE ADJUST AS NECESSARY DURING COURSE OF WORK

CONTRACTOR SHALL CLEAN AND SWEEP WESCOTT STREET AND CRESCENT STREET ON A DAILY BASIS DURING THE COURSE OF CONSTRUCTION

INSTALL STABILIZED CONSTRUCTION ENTRANCE



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1	08.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT
CRESCENT HEIGHTS

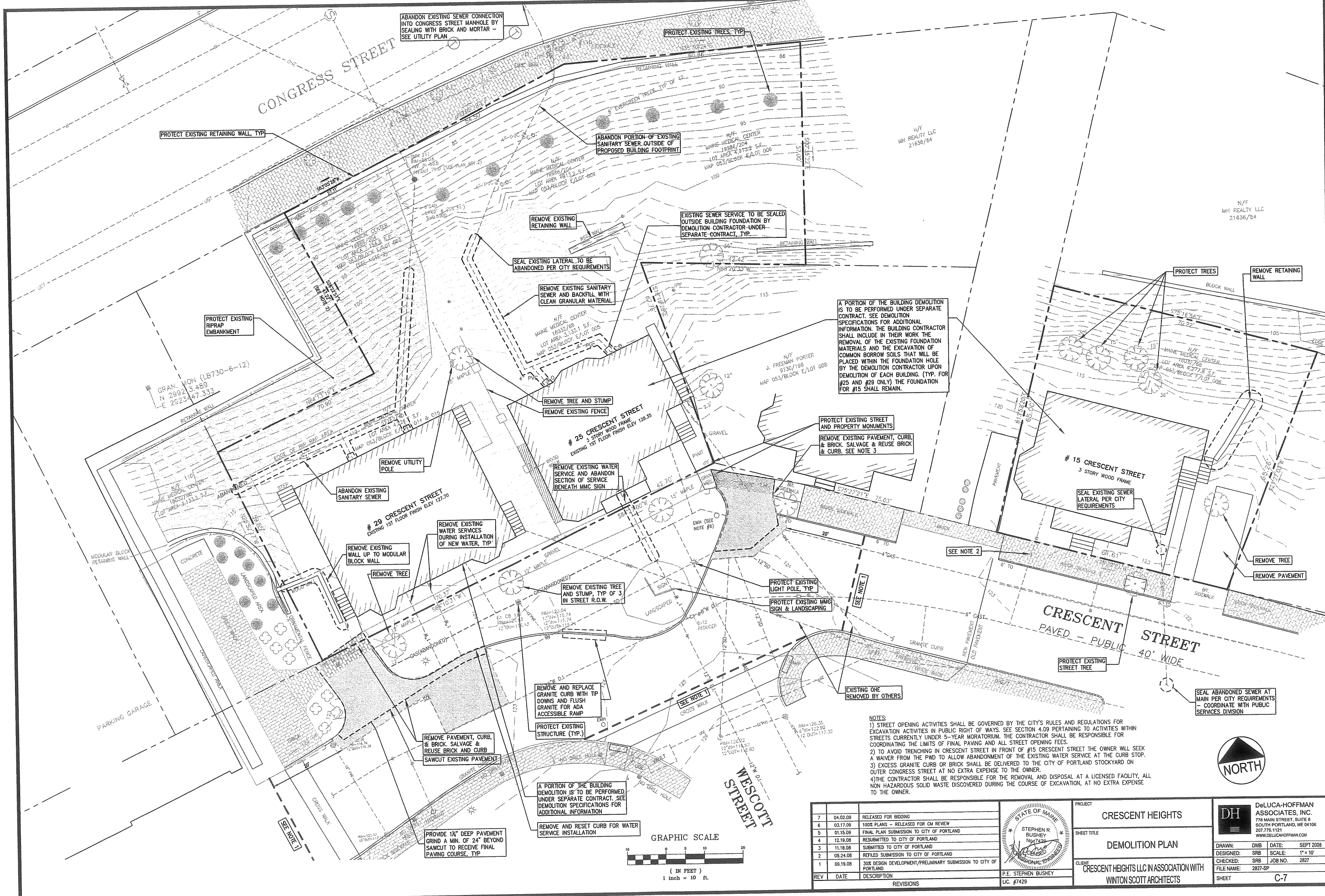
SHEET TITLE
**DEMOLITION PHASE
EROSION CONTROL PLAN**

CLIENT
**CRESCENT HEIGHTS LLC IN ASSOCIATION WITH
WINTON SCOTT ARCHITECTS**

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: 1" = 10'
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET C-6

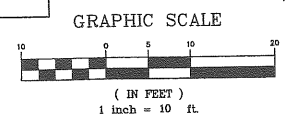
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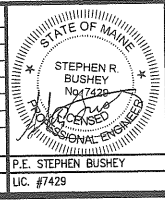
A PORTION OF THE BUILDING DEMOLITION IS TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DEMOLITION SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE BUILDING CONTRACTOR SHALL INCLUDE IN THEIR WORK THE REMOVAL OF THE EXISTING FOUNDATION MATERIALS AND THE EXCAVATION OF COMMON BORROW SOILS THAT WILL BE PLACED WITHIN THE FOUNDATION HOLE BY THE DEMOLITION CONTRACTOR UPON DEMOLITION OF EACH BUILDING. (TYP. FOR #25 AND #29 ONLY) THE FOUNDATION FOR #15 SHALL REMAIN.

- NOTES:
- 1) STREET OPENING ACTIVITIES SHALL BE GOVERNED BY THE CITY'S RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. SEE SECTION 4.09 PERTAINING TO ACTIVITIES WITHIN STREETS CURRENTLY UNDER 5-YEAR MORATORIUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LIMITS OF FINAL PAVING AND ALL STREET OPENING FEES.
 - 2) TO AVOID TRENCHING IN CRESCENT STREET IN FRONT OF #15 CRESCENT STREET THE OWNER WILL SEEK A WAIVER FROM THE PWD TO ALLOW ABANDONMENT OF THE EXISTING WATER SERVICE AT THE CURB STOP.
 - 3) EXCESS GRANITE CURB OR BRICK SHALL BE DELIVERED TO THE CITY OF PORTLAND STOCKYARD ON OUTER CONGRESS STREET AT NO EXTRA EXPENSE TO THE OWNER.
 - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL AT A LICENSED FACILITY, ALL NON HAZARDOUS SOLID WASTE DISCOVERED DURING THE COURSE OF EXCAVATION, AT NO EXTRA EXPENSE TO THE OWNER.

A PORTION OF THE BUILDING DEMOLITION IS TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DEMOLITION SPECIFICATIONS FOR ADDITIONAL INFORMATION



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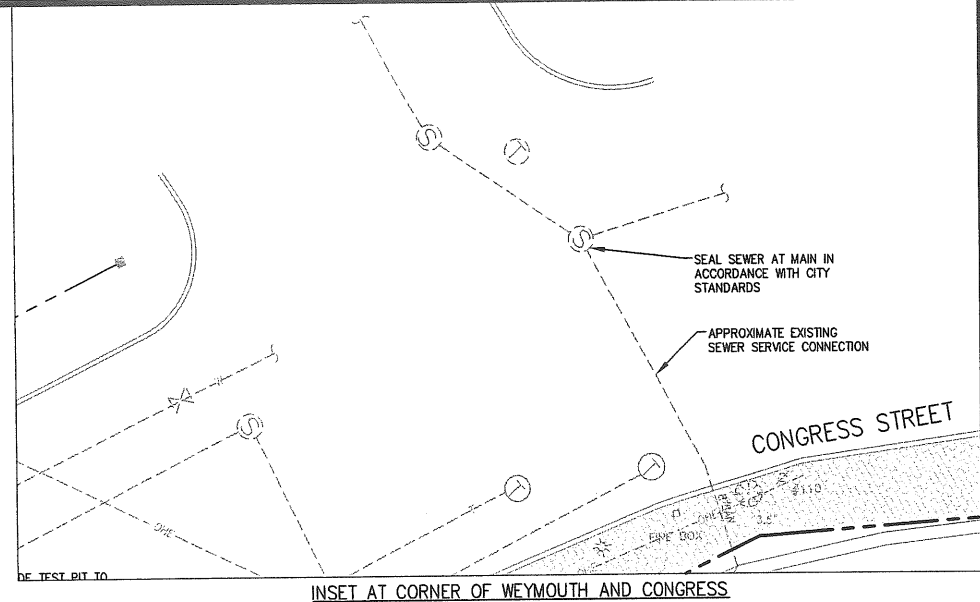
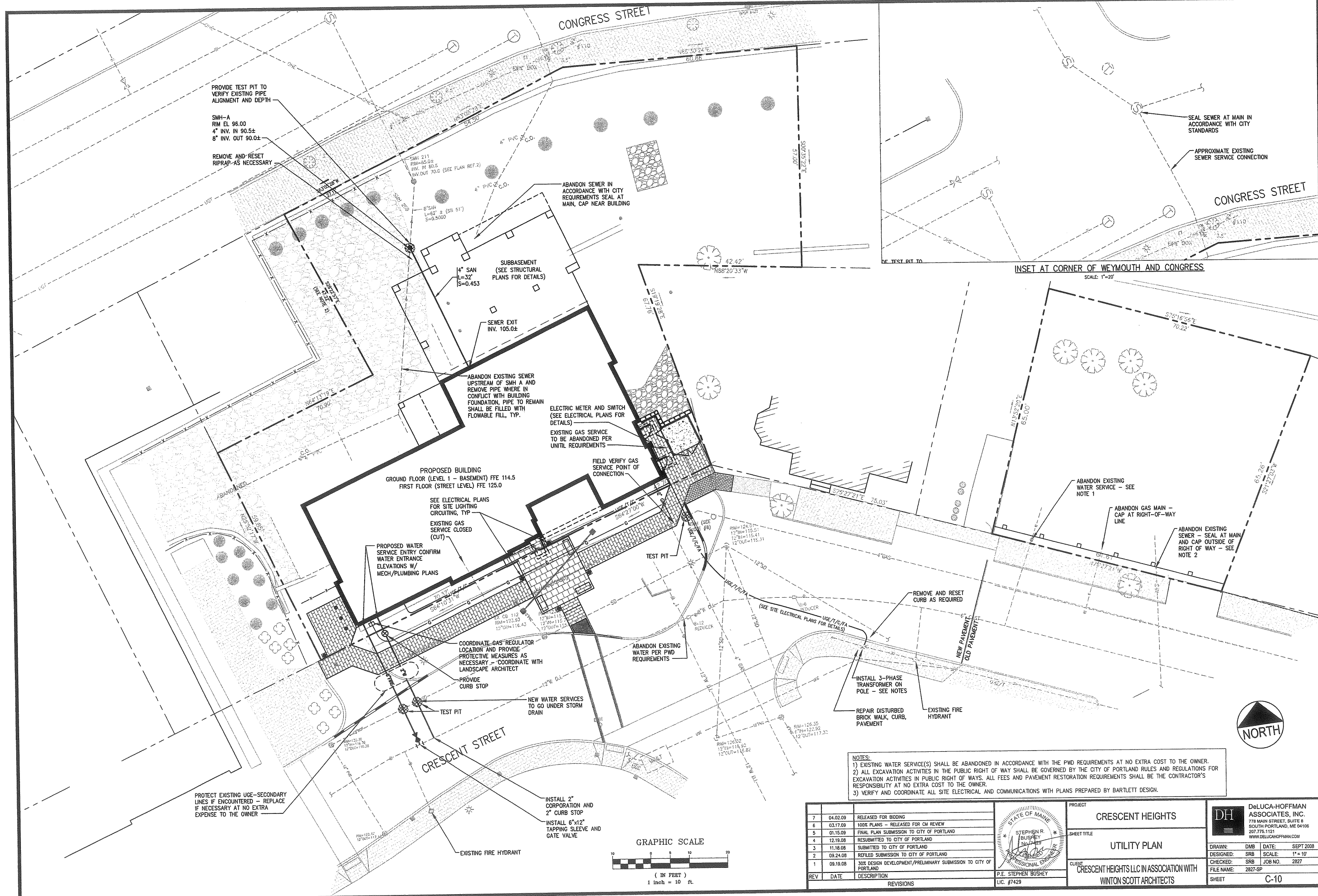


PROJECT
CRESCENT HEIGHTS
 SHEET TITLE
DEMOLITION PLAN
 CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

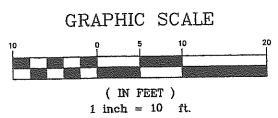
DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELUCAHOFFMAN.COM

DRAWN: DMS DATE: SEPT 2008
 DESIGNED: SRB SCALE: 1" = 10'
 CHECKED: SRB JOB NO. 2827
 FILE NAME: 2827-SF
 SHEET C-7

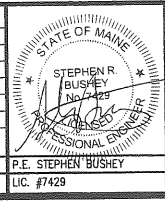
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NOTES:
 1) EXISTING WATER SERVICE(S) SHALL BE ABANDONED IN ACCORDANCE WITH THE PWD REQUIREMENTS AT NO EXTRA COST TO THE OWNER.
 2) ALL EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY SHALL BE GOVERNED BY THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. ALL FEES AND PAVEMENT RESTORATION REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO EXTRA COST TO THE OWNER.
 3) VERIFY AND COORDINATE ALL SITE ELECTRICAL AND COMMUNICATIONS WITH PLANS PREPARED BY BARTLETT DESIGN.



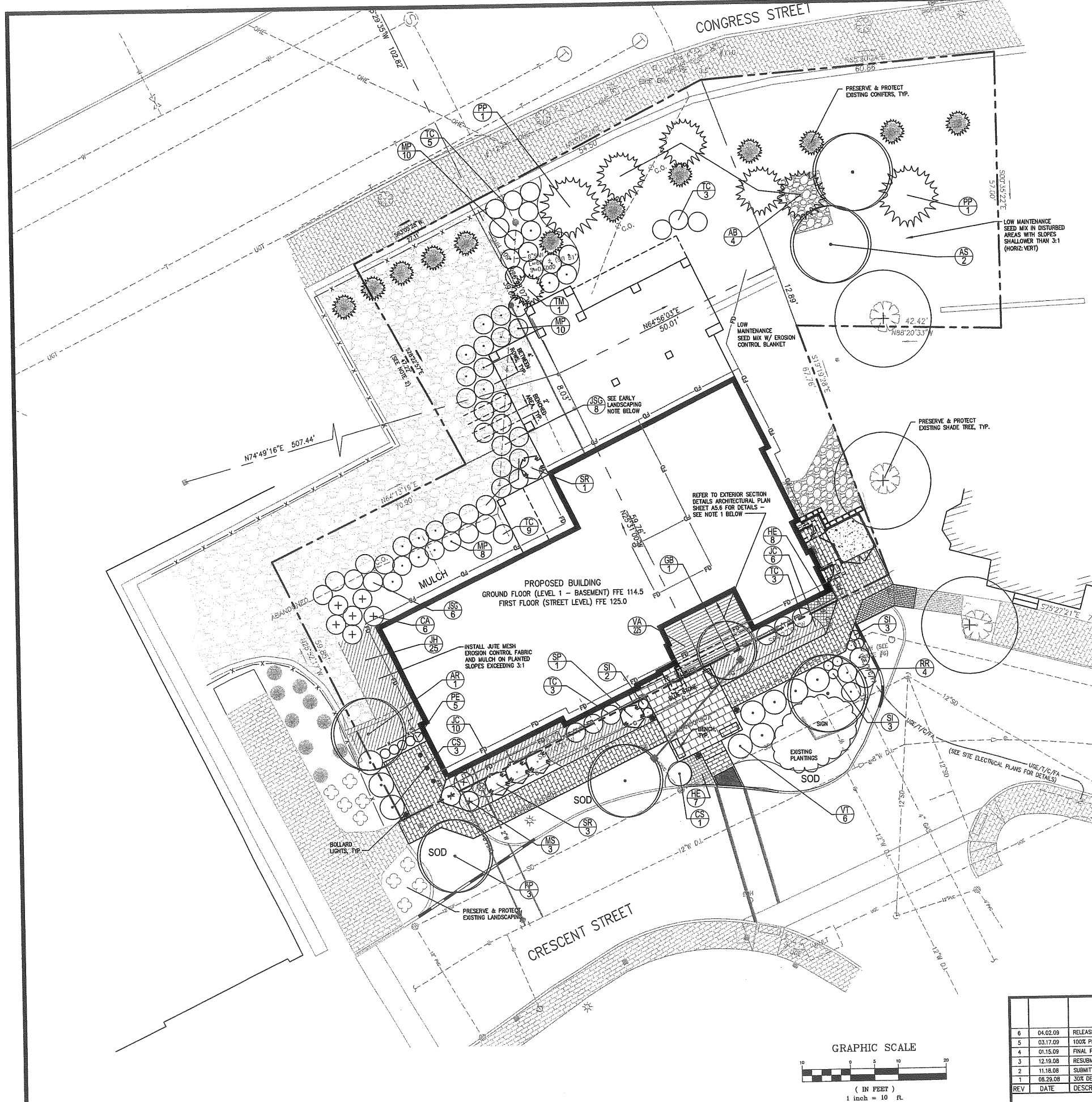
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2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT
 CRESCENT HEIGHTS
SHEET TITLE
 UTILITY PLAN
CLIENT
 CRESCENT HEIGHTS LLC IN ASSOCIATION WITH
 WINTON SCOTT ARCHITECTS

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELUCAHOFFMAN.COM
DRAWN: DMB **DATE:** SEPT 2008
DESIGNED: SRB **SCALE:** 1" = 10'
CHECKED: SRB **JOB NO.:** 2827
FILE NAME: 2827-SP
SHEET C-10

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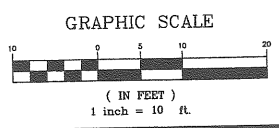
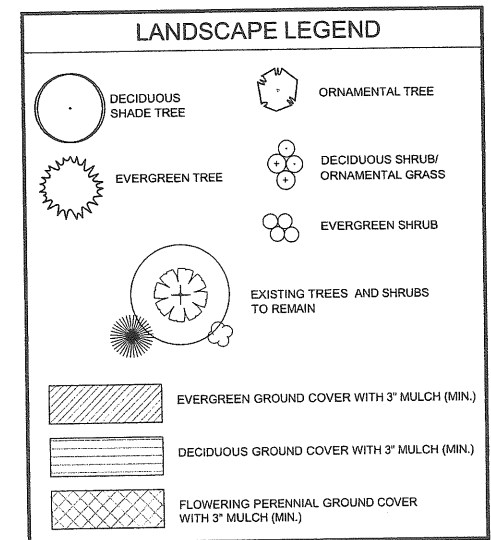


PLANT LIST						
KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	SPACING	REMARKS
TREES						
AB	4	Abies balsamea Balsam Fir	6-7' ht.	B&B		
AR	1	Acer rubrum 'Autumn Flame' Autumn Flame Red Maple	2 1/2-3" cal.	B&B		
AS	2	Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	2 1/2-3" cal.	B&B		
FP	3	Fraxinus pennsylvanica 'Summit' Summit Ash	2 1/2-3" cal.	B&B		
GB	1	Ginkgo biloba Ginkgo Tree	2" cal.	B&B		
PP	2	Picea pungens 'Glauca' Colorado Blue Spruce	6-7' ht.	B&B		
TM	1	Taxus X media 'Hicksii' Hick's Yew	24-30" ht.	B&B		
SHRUBS & ORNAMENTAL GRASSES						
CA	6	Calamagrostis acutifolia 'Kari Foerster' Kari Foerster Feather Reed Grass	full	3 gal.	4'oc	
CS	4	Cornus sericea 'Isanti' Isanti Red Twig Dogwood	24-30" ht.	5 gal./B&B	5'oc	
JSP	14	Juniperus chinensis 'Sea Green' Sea Green Juniper	18-24" spr.	3 gal./B&B	4'oc	
MP	28	Myrica pensylvanica Bayberry	18-24" ht.	3 gal./B&B	4'oc	
MS	3	Miscanthus sinensis 'Graziella' Silver Grass	full	3 gal.	4'oc	
RR	4	Rosa rugosa Rugosa Rose, pink	18-24" ht.	3 gal.	4'oc	
SP	1	Syringa patula 'Miss Kim' Miss Kim Lilac	30-36" ht.	B&B		
SR	4	Syringa x prestoniae 'Donald Wyman' Lilac, deep pink	30-36" ht.	B&B	4'oc	shrub form
TC	23	Taxus cuspidata 'Green Wave' Green Wave Yew	18-24" spr.	B&B/3 gal.	4'oc	
VT	6	Viburnum trilobum 'Alfredo' Alfredo American Cranberry Viburnum	24-30" ht.	B&B/3 gal.	5'oc	
GROUND COVER & PERENNIALS						
VA	225	Vaccinium angustifolium Low-bush Blueberry sod	sod	sq. ft.		
HE	15	Hemerocallis, mixed Daylily, red, yellow, orange mixed	3-4 ppp	1 gal.	2' oc	similar blade/plant size
JC	16	Juniperus chinensis 'Blue Chip' Blue Chip Juniper	18-24" spr.	3 gal.	4' oc	
JH	25	Juniperus horizontalis 'Bar Harbor' Creeping Thyme	18-24" spr.	3 gal.	3' oc	on >3:1 slope
PE	5	Perennials, flowering e.g., Echinacea, Gaillardia	full	1 gal.	2' oc	
SI	8	Iris siberica 'Caesar's Brother' Siberian Iris, blue	3-4 ppp	1 gal.	2' oc	blue flower

* ALTERNATE: Low-bush Blueberry sod, 275 S.F.

EARLY LANDSCAPING
INSTALL 20+ SHRUBS ON BENCHES PRIOR TO REPAIR OF RIPRAPPED SLOPE. SEE DETAIL I, SHEET C-13B. WATER FOR DURATION OF CONSTRUCTION PERIOD UNTIL FINAL ACCEPTANCE OF LANDSCAPING.

NOTE:
1. THE CIVIL / SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MATERIALS AND INSTALLATION OF THE FOLLOWING GREEN ROOF SECTION ELEMENTS:
- BIO BARRIER @ ROOT BARRIER FABRIC
- 4" DRAINAGE GRAVEL - MDOT 703.22 TYPE C
- SOIL SEPARATION FABRIC - MIRAFI 140N OR EQUAL
- 4" LOAM
- 2" BLUEBERRY SOD
- 2" MULCH

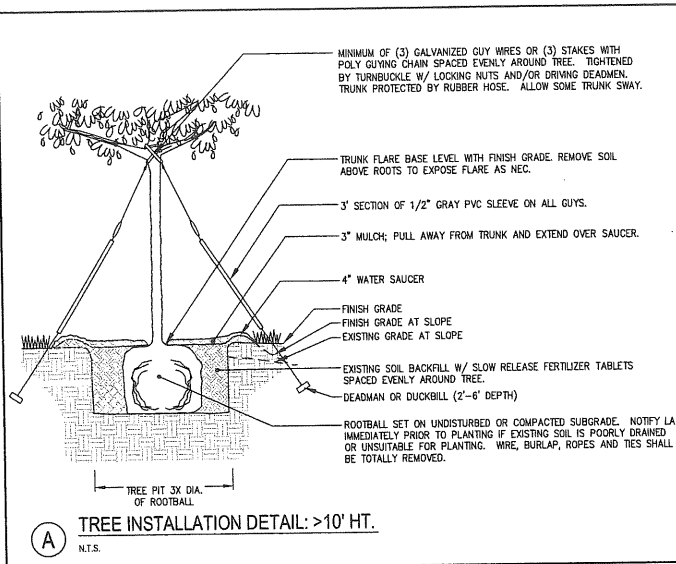


REV	DATE	DESCRIPTION	REVISIONS
6	04.02.09	RELEASED FOR BIDDING	
5	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
4	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
3	12.19.08	RESUBMITTED TO CITY OF PORTLAND	
2	11.18.08	SUBMITTED TO CITY OF PORTLAND	
1	08.29.08	30% DESIGN DEVELOPMENT	

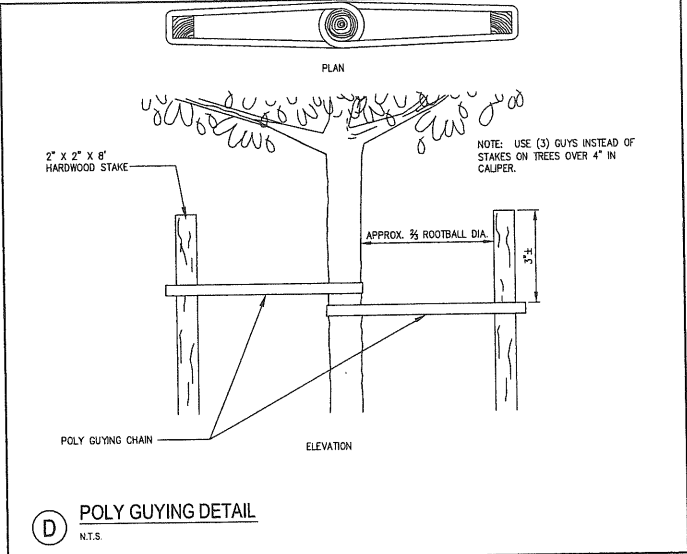
LICENSED LANDSCAPE ARCHITECT
SHELLEY E. BRUNELLE
No. 2593
STATE OF MAINE
SHELLEY E. BRUNELLE, R.L.A.
LIC. #LAR2593

PROJECT: CRESCENT HEIGHTS
SHEET TITLE: LANDSCAPE PLAN
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

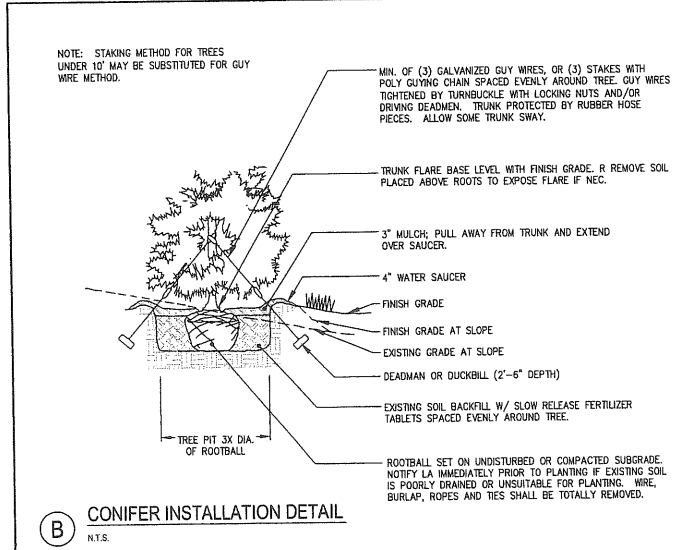
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: DMB DATE: SEPT 2009
DESIGNED: SEB SCALE: 1" = 10'
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET: C-11



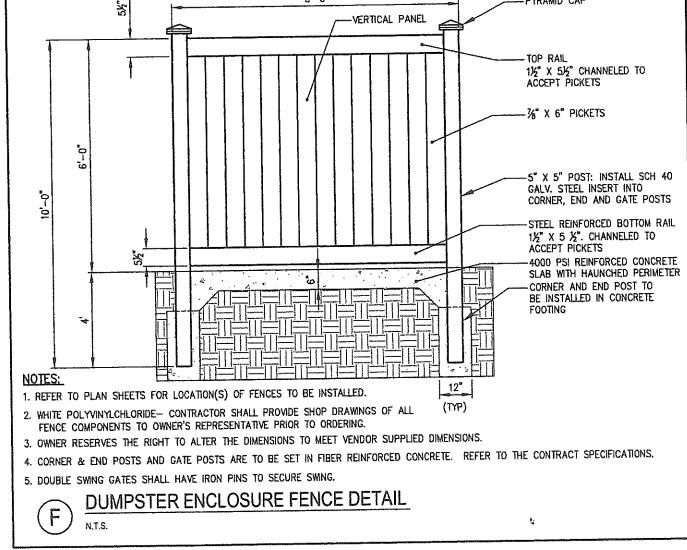
A TREE INSTALLATION DETAIL: >10' HT.
N.T.S.



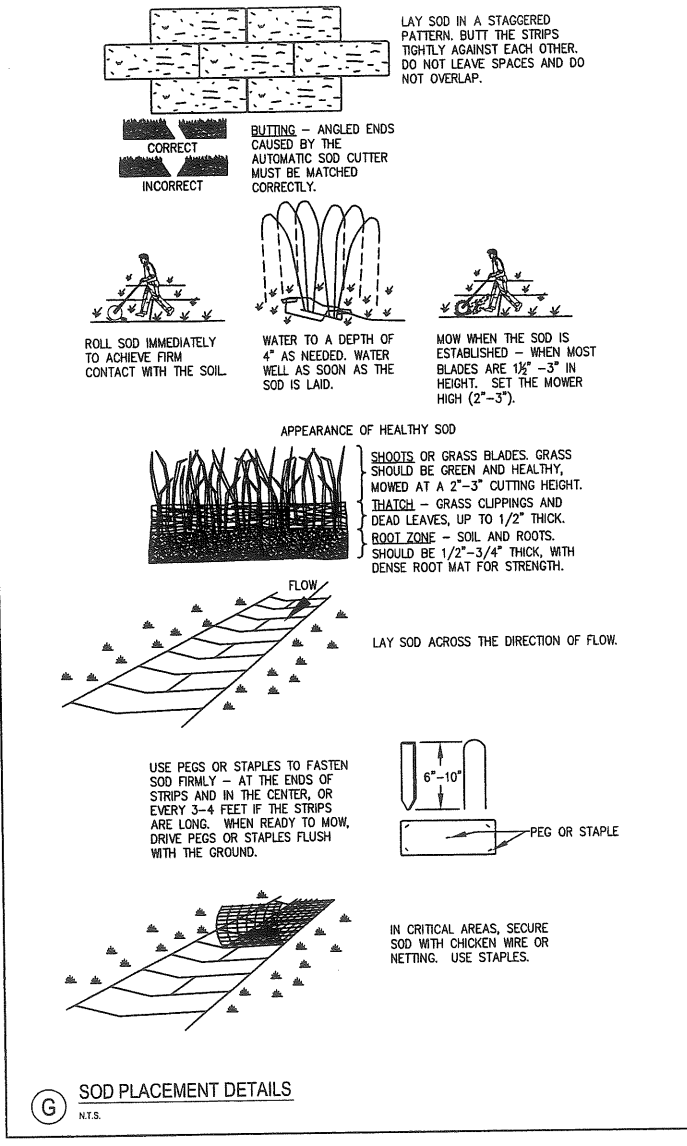
D POLY GUYING DETAIL
N.T.S.



B CONIFER INSTALLATION DETAIL
N.T.S.



F DUMPSTER ENCLOSURE FENCE DETAIL
N.T.S.



G SOD PLACEMENT DETAILS
N.T.S.

SPECIFICATIONS

SITE PREPARATION

(a) INSTALL NEEDED WATER CONTROL MEASURES.

(b) GRADE SLOPES 2:1 OR FLATTER.

(c) BEFORE LAYING SOD, PROVIDE ADEQUATE DRAINAGE WHERE INTERNAL WATER MOVEMENT, ESPECIALLY AT THE TOE OF SLOPES, MAY CAUSE SEEPS OR SOIL SLIPPAGE.

SOIL PREPARATION

(a) PROVIDE THE BEST POSSIBLE SOIL CONDITIONS FOR SODDING. THE DESIRABLE SOIL TEXTURES INCLUDE SANDY LOAM, LOAM, AND SILT LOAM. WHERE BRIGHTLY OR CLAYEY SOILS ARE ENCOUNTERED, CONSIDER AMENDING THEM WITH IMPORTED MATERIALS (TOPSOIL, COMPOST, SAND, ETC.) TO IMPROVE MOISTURE AND NUTRIENT RETENTION AND DRAINAGE. RESURFACE SCREENED NATIVE TOPSOIL (WHEN AVAILABLE) AFTER GRADING.

(b) IF TIME PERMITS, HAVE SOILS TESTED AND FOLLOW LIME AND FERTILIZER RECOMMENDATIONS.

(c) FILL AREAS MUST BE COMPACTED ENOUGH TO PREVENT UNEVEN SETTLING. THE ENTIRE SURFACE TO BE SODDED SHALL BE FREE FROM LARGE CLODS, STONES, OR OTHER DEBRIS. AT THIS STAGE, INCORPORATE LIME AND FERTILIZER UNIFORMLY INTO THE SURFACE SOIL AS NEEDED. IMMEDIATELY BEFORE SODDING, THE SOIL SHALL BE LOOSENED TO A DEPTH OF 1 INCH AND THOROUGHLY DAMPENED, IF NOT ALREADY MOST. SOD SHALL NOT BE LAID ON DRY SOIL. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHENEVER PRACTICAL.

SELECTION OF SOD

(a) SELECT SOD GROWN FROM SEED OF ADAPTED VARIETIES OR TYPES AND UNDER CULTURAL PRACTICES CONDUCTIVE TO HIGH QUALITY SOD FREE OF THATCH, WEED, INSECT, DISEASE, AND OTHER PEST PROBLEMS.

(b) SELECT SPECIES AND VARIETIES BEST SUITED FOR THE SITES TO BE STABILIZED.

(c) SELECT SOD AT LEAST 15 MONTHS OLD AND NO OLDER THAN 3 YEARS. CULTIVATED TURF GRASS IS USUALLY CONSIDERED READY FOR HARVEST WHEN A CUT PORTION OF SOD 3 FEET LONG BY 1 TO 1 1/2 FEET WIDE WILL SUPPORT ITS OWN WEIGHT WHEN SUSPENDED VERTICALLY FROM THE UPPER 10 PERCENT OF THE SECTION. THE MOST COMMON AGE OF SOD WHEN CUT IS 15 TO 24 MONTHS.

(d) SELECT SOD CUTS OF WIDTH AND LENGTH SUITED TO THE PROJECT AND AVAILABLE EQUIPMENT. GENERALLY, SOD PIECES ARE 12 TO 24 INCHES WIDE, AVERAGING 18 INCHES IN WIDTH. LENGTHS VARY FROM 4 TO 6 FEET. SOD MAY BE CUT AND ROLLED OR FOLDED IN THE MIDDLE AND STACKED ON PALETS. FOLDED SOD IS CUT SHORTER THAN ROLLED SOD - ABOUT 3 TO 4 FEET IN LENGTH. SOD SHOULD BE CUT WITH A 1/4 TO 1/2 INCH LAYER OF SOIL ABOUT 80 PERCENT OF ALL RHIZOMES ARE IN THE TOP 3/4 INCH OF SOIL. THE THINNER THE SOD IS CUT THE MORE QUICKLY IT WILL KNOT TO THE SITE SOIL, BUT THE SOIL LAYER MUST BE THICK ENOUGH TO HOLD CUT PIECES TOGETHER WITHOUT FALLING APART.

(e) HAVE SOD DELIVERED TO THE SITE AS SOON AS PRACTICAL AFTER LIFTING. DURING HOT WEATHER, DELIVERY SHOULD BE MADE WITHIN 6 HOURS AND MAY BE EXTENDED TO 48 HOURS DURING COOL SEASONS. IT IS GENERALLY UNWISE TO MOVE SOD DURING JULY AND AUGUST. IF MOVED DURING THIS PERIOD, SOD MAY NEED TO BE CUT THICKER AND IT WILL REQUIRE FREQUENT IRRIGATION.

ESTABLISHMENT

(a) DATES: SOD CAN BE ESTABLISHED FROM APRIL 1st TO NOVEMBER 15th (MAY VARY WITH REGION OF STATE).

(b) LAY STRIPS OF SOD AT RIGHT ANGLES TO DIRECTION OF SLOPE OR FLOW OF WATER STARTING AT THE LOWEST ELEVATION. WEDGE THE EDGES AND ENDS OF THE SOD STRIPS TOGETHER AND TAMP OR ROLL. STAGGER JOINTS. LAY SO THE TOP OF THE SOIL LAYER IS FLUSH WITH THE TOP OF THE UNDISTURBED GROUND OR PAVEMENT SURFACE.

(c) USE WIRE STAPLES, FINE MESH WIRE OR WOOD PINS AND BINDER TWINE ON VERY STEEP SLOPES TO HOLD SOD IN PLACE UNTIL SECURED BY PLANT GROWTH.

(d) IRRIGATE SODDED AREA IMMEDIATELY AFTER INSTALLATION. IF UNFAVORABLE DRY WEATHER OR OTHER CONDITIONS PREVAIL, ADDITIONAL WATERING WILL SUBSEQUENTLY BE REQUIRED. IT MAY ALSO BE DESIRABLE TO IRRIGATE AREA FROM WHICH SOD IS TO BE REMOVED PRIOR TO LIFTING.

SODDED WATERWAYS

(a) CARE SHALL BE TAKEN TO PREPARE THE SOIL ADEQUATELY IN ACCORDANCE WITH THE SPECIFICATIONS. THE SOD TYPE SHALL CONSIST OF PLANT MATERIALS ABLE TO WITHSTAND THE DESIGNED VELOCITY.

(b) SOD STRIPS IN WATERWAYS SHALL BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW (FIGURE 4.2). CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY.

(c) AFTER ROLLING OR TAMPING, SOD SHALL BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. CHICKEN WIRE, JUTE OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

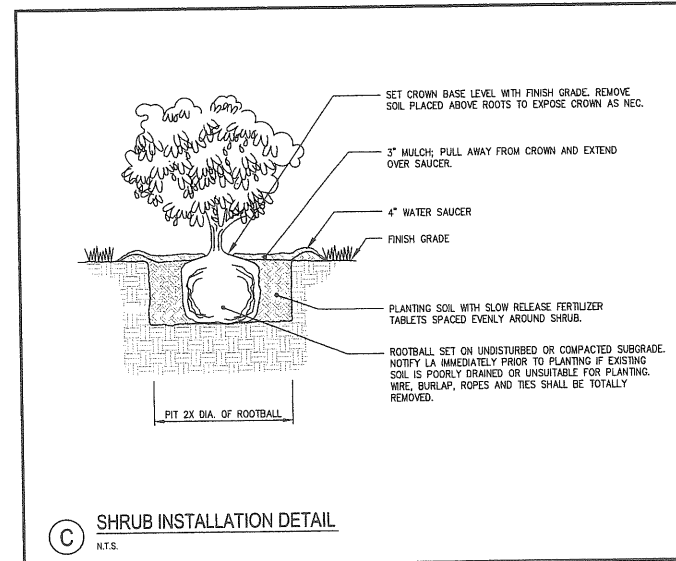
(d) ALL OTHER SPECIFICATIONS FOR THIS PRACTICE SHALL BE ADHERED TO WHEN SODDING A WATERWAY.

MAINTENANCE

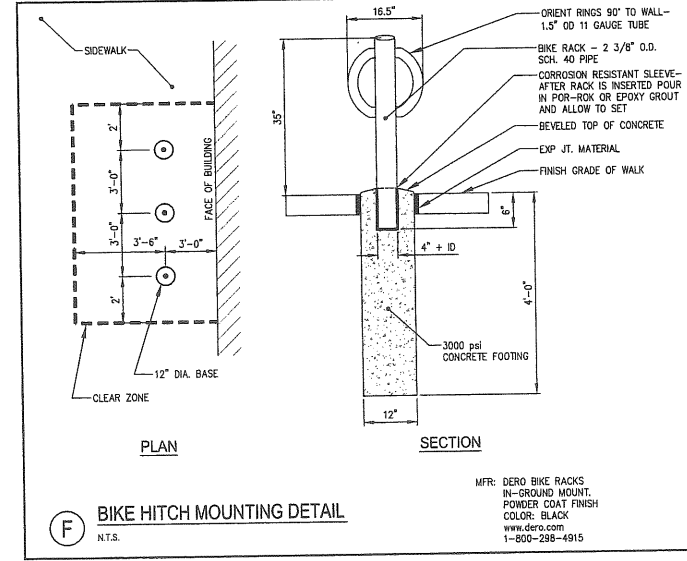
(a) AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE IN THE ROOT ZONE AND PREVENT DORMANCY OF SOD.

(b) NO MORE THAN 1/3 OF THE SHOOT (GRASS LEAF) SHOULD BE REMOVED IN ANY MOWING. GRASS HEIGHT SHOULD BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.

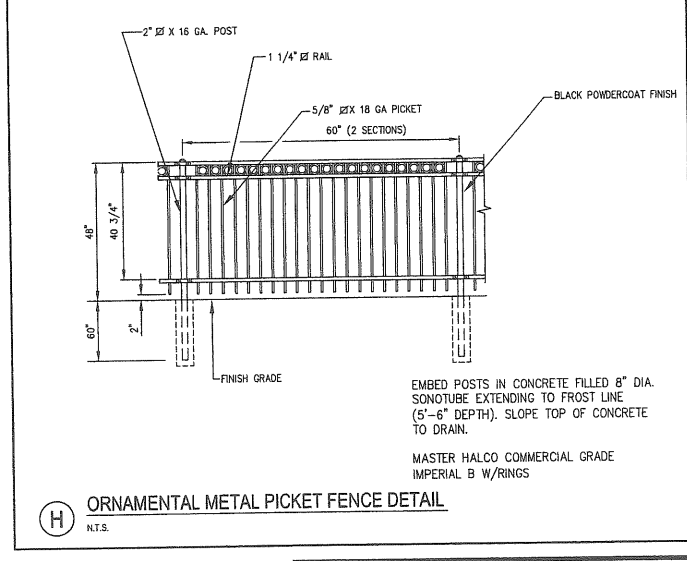
(c) AFTER THE FIRST GROWING SEASON, ESTABLISHED SOD WILL REQUIRE FERTILIZATION AND MAY REQUIRE LIME. FOLLOW SOIL TEST RECOMMENDATIONS.



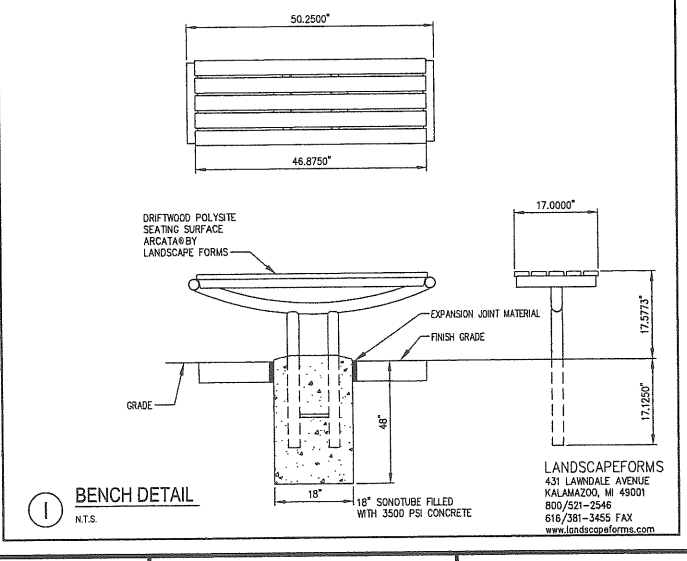
C SHRUB INSTALLATION DETAIL
N.T.S.



F BIKE HITCH MOUNTING DETAIL
N.T.S.



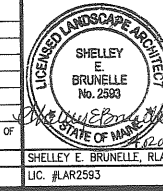
H ORNAMENTAL METAL PICKET FENCE DETAIL
N.T.S.



I BENCH DETAIL
N.T.S.

G:\2827 Crescent Apts\dwg\PERMIT\2827-DET.dwg, LAND & SITE FURN. DET., 4/27/2009 4:53:59 PM, cwhermate

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
5	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND	
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2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	08.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	

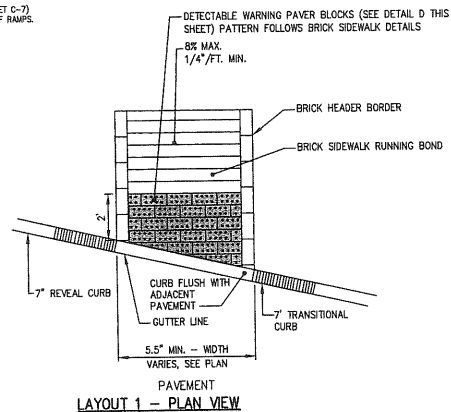


PROJECT: CRESCENT HEIGHTS
SHEET TITLE: LANDSCAPE AND SITE FURNISHING DETAILS
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 4
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

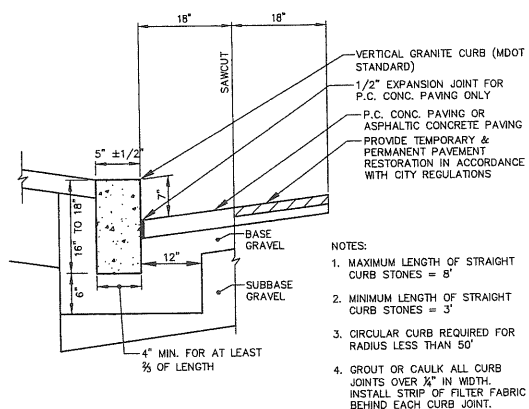
DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET: C-12

NOTES:
1. SEE SITE LAYOUT PLAN (SHEET C-7) FOR LOCATIONS & DIMENSIONS OF RAMPS.



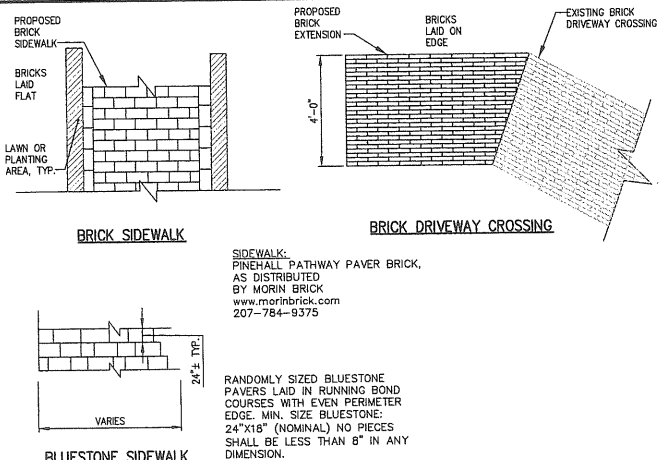
LAYOUT 1 - PLAN VIEW

A ADA RAMP DETAIL - WITH PAVER BLOCKS
N.T.S.

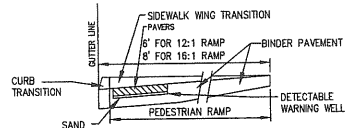


NOTES:
1. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8'
2. MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
3. CIRCULAR CURB REQUIRED FOR RADIUS LESS THAN 50'
4. GROUT OR CAULK ALL CURB JOINTS OVER 1/4" IN WIDTH. INSTALL STRIP OF FILTER FABRIC BEHIND EACH CURB JOINT.

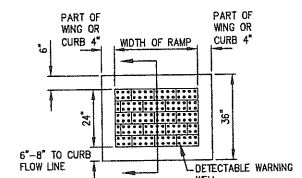
B VERTICAL GRANITE CURB
N.T.S.



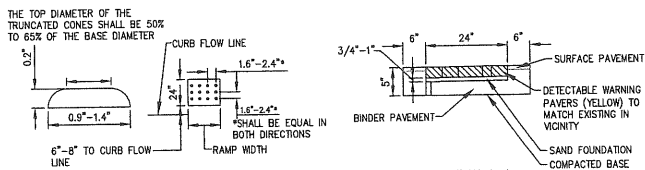
C PAVER PATTERNS
N.T.S.



SIDE SECTION VIEW OF DETECTABLE WARNING, WELL, CURB AND GUTTER

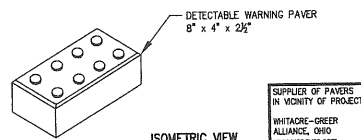


PLAN VIEW OF DETECTABLE WARNING AND WELL
PAVERS NOT DRAWN TO SCALE



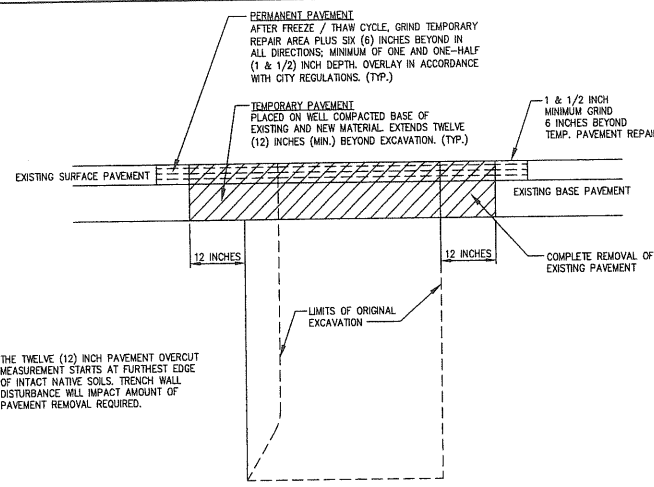
ELEVATION VIEW PLAN VIEW
DOME AND DETECTABLE WARNING DETAILS

NOTE:
ALL DETECTABLE WARNING AREAS SHALL START 6 INCHES FROM THE FLOW LINE OF THE CURB AND BE 24 INCHES PARALLEL TO CURB LINE (6 TO 30" FROM FACE OF CURB) AND COVER THE COMPLETE WIDTH OF THE RAMP AREA, UNLESS OTHERWISE NOTED

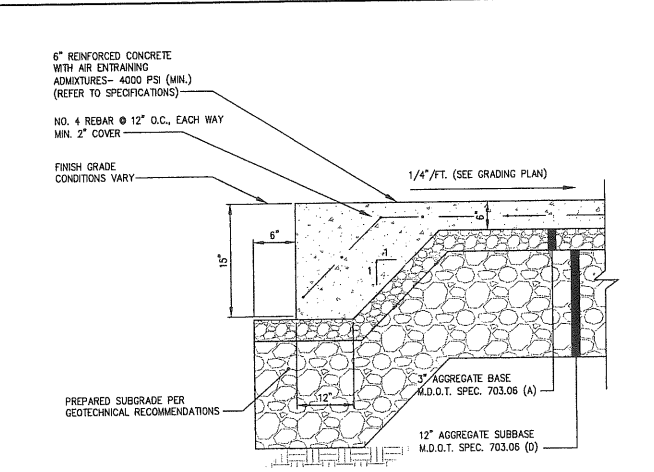


ISOMETRIC VIEW
SUPPLIER OF PAVERS IN VICINITY OF PROJECT:
WHITKRE-GREER ALLIANCE, OHIO
www.rgpa.com

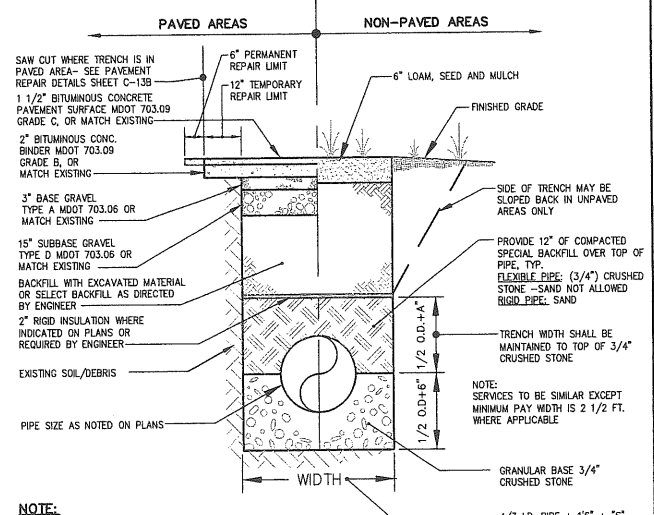
D DETECTABLE WARNING PAVER DETAIL
N.T.S.



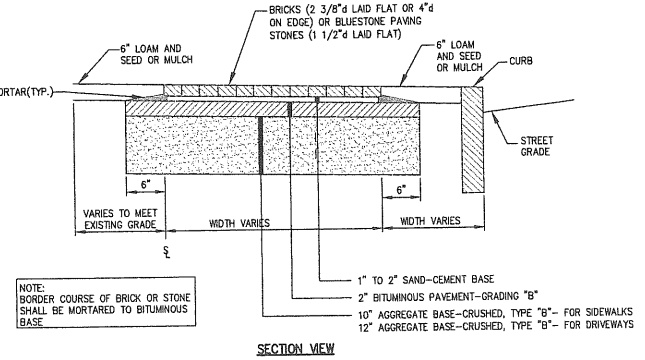
F CROSS SECTION OF TYPICAL EXCAVATION
N.T.S.



G REINFORCED CONCRETE PAD DETAIL
N.T.S.

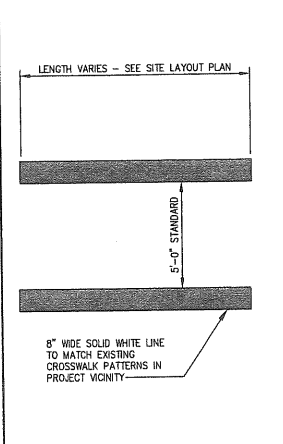


J TYPICAL UTILITY PIPE TRENCH SECTION DETAIL
N.T.S.

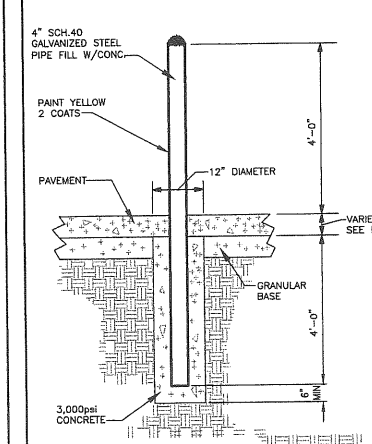


NOTE:
BORDER COURSE OF BRICK OR STONE SHALL BE MORTARED TO BITUMINOUS BASE

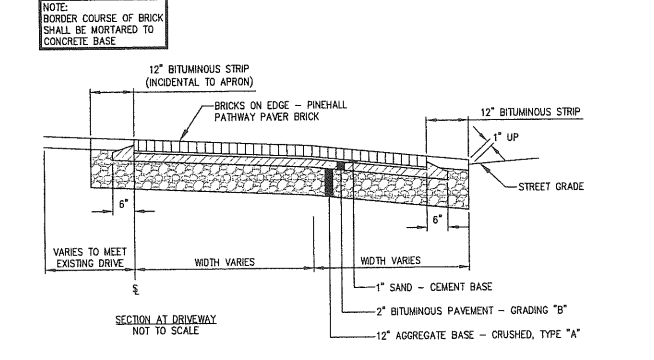
E MASONRY SIDEWALK WITH BITUMINOUS BASE
N.T.S.



H CROSSWALK STRIPING DETAIL
N.T.S.



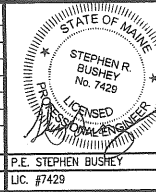
I PIPE BOLLARD DETAIL
N.T.S.



K CITY OF PORTLAND
BRICK WITH BITUMINOUS BASE
SIDEWALK AND DRIVEWAY CONSTRUCTION DETAIL
N.T.S.

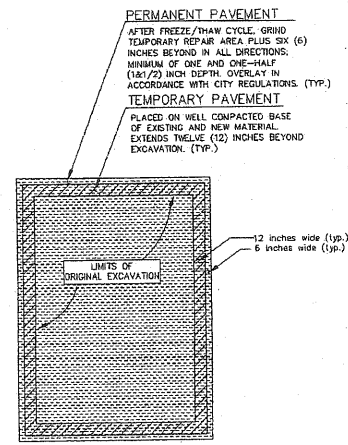
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REV	DATE	DESCRIPTION
7	04.02.09	RELEASED FOR BIDDING
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



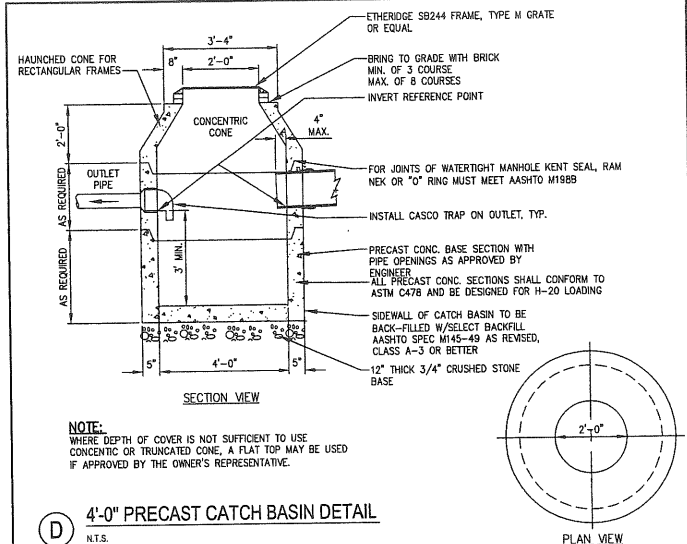
PROJECT: CRESCENT HEIGHTS
SHEET TITLE: SITE AND UTILITY DETAILS
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 6
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET C-13A

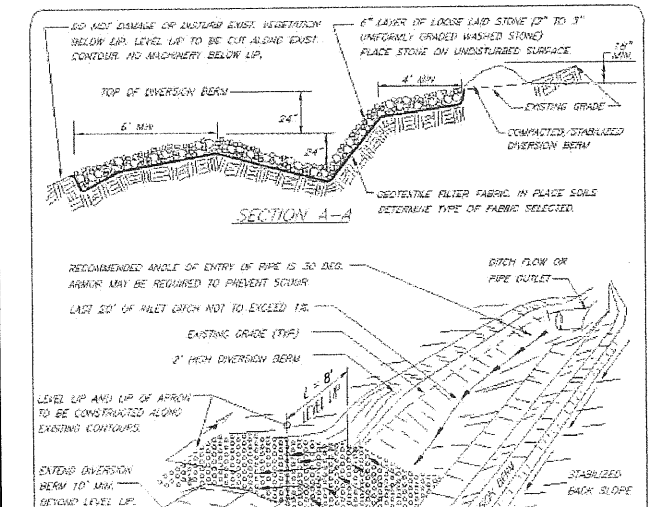
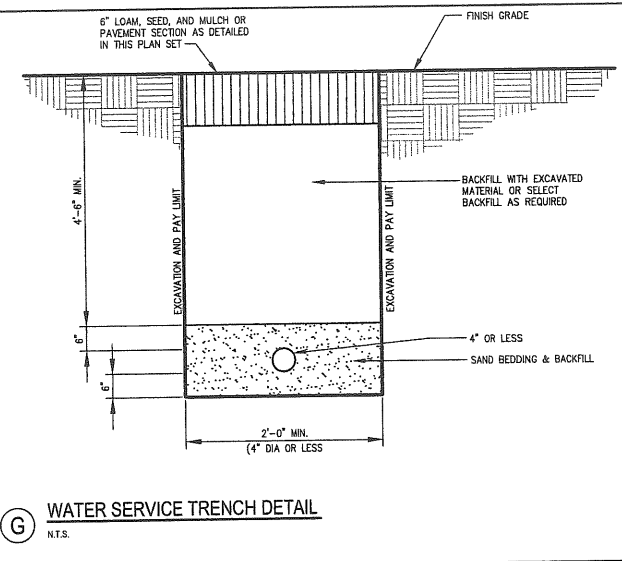


NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

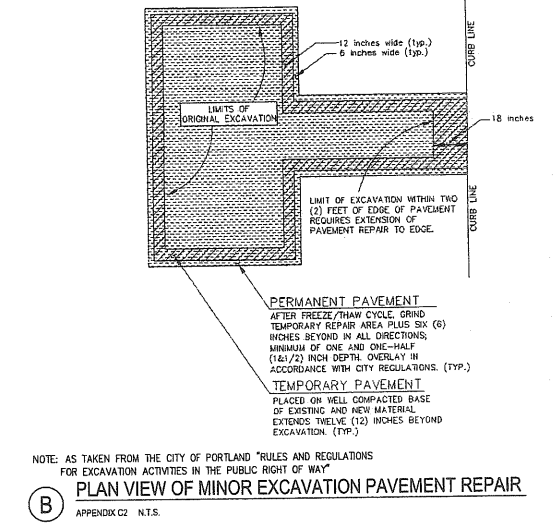
A PLAN VIEW OF MINOR EXCAVATION PAVEMENT REPAIR
APPENDIX C1 N.T.S.



NOTE: WHERE DEPTH OF COVER IS NOT SUFFICIENT TO USE CONCENTRIC OR TRUNCATED CONE, A FLAT TOP MAY BE USED IF APPROVED BY THE OWNER'S REPRESENTATIVE.



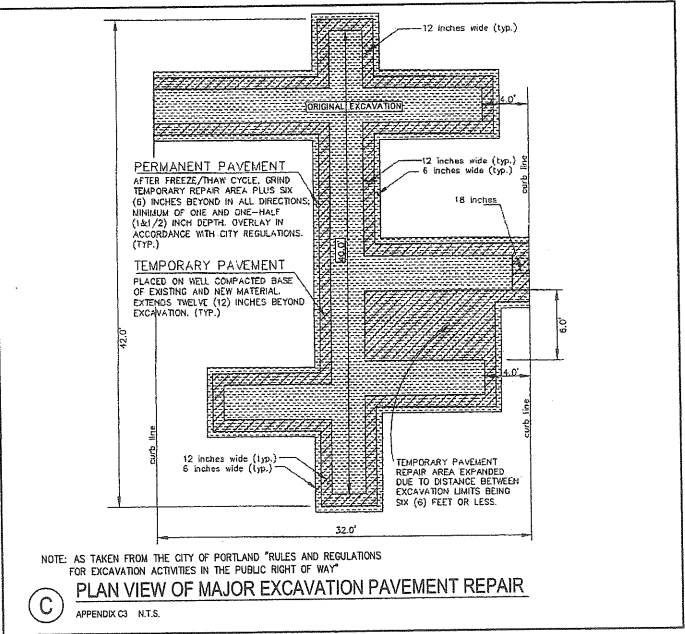
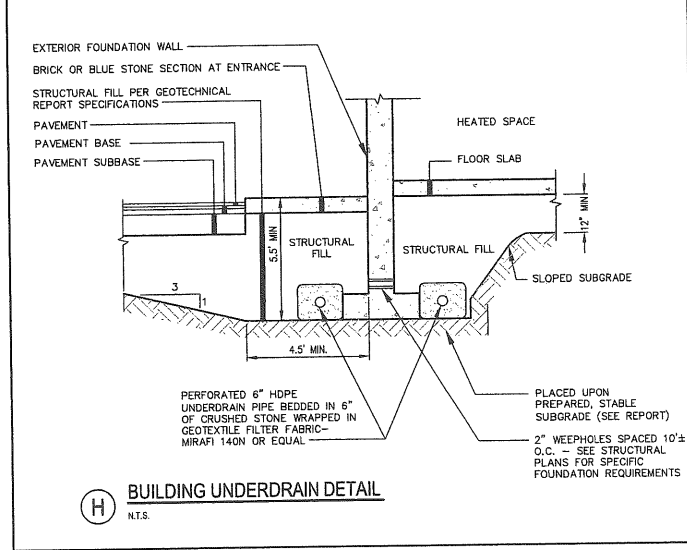
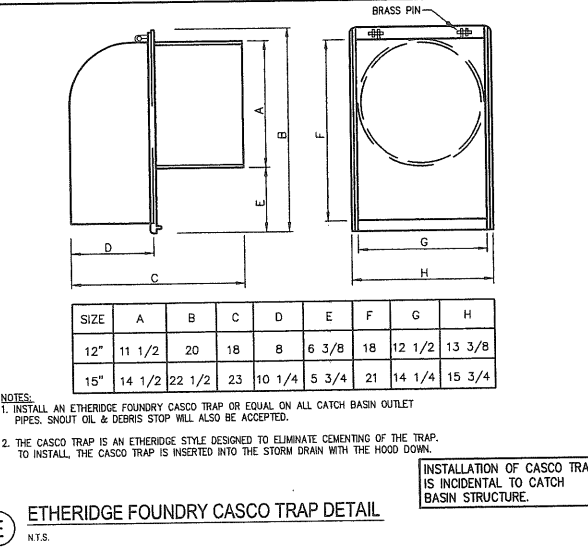
- CONSTRUCTION SPECIFICATIONS:**
- SPREADERS SHALL BE INSTALLED WITH A LEVEL RUSHING. CONSTRUCT LEVEL LIP TO OR GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOY FILL).
 - SELECT GEOTEXTILE FABRIC BASED ON UNDISTURBED SOILS (GRANDS, SILTS, CLAYE, ETC.).
 - PLACE 6" LAYER OF UNIFORMLY GRADED STONE 2" TO 3" IN DIA. TO FORM SMOOTH UNIFORM SURFACE. DO NOT FC. LIONS ON STONE.
 - THE LIET DITCH SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 20 FEET BEFORE ENTERING THE SPREADER.
 - STORM RUN-OFF CONVERTED TO SHEET FLOW ACROSS OUTLET APRON SHALL FLOW ONTO STABILIZED AREAS. RUN-OFF SHALL NOT BE RECONCENTRATED IMMEDIATELY BELOW THE POINT OF DISCHARGE.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.
 - CONSTRUCTION OF LEVEL LIP SPREADER SHALL BE FROM APRON. SIDE ONLY LEVEL UP & AREA BELOW SPREADER SHALL BE AT EXISTING GRADE & UNDISTURBED BY EXCAVATION OR EQUIPMENT.
 - CONSTRUCT SPREADER WITH LIP AT EXISTING ELEVATION AS DETERMINED.
 - CONTEMPORARY RECEIVING AREA MUST BE NATURALLY WELL VEGETATED.
 - DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 25' OF A STREAM OR WATER BODY.
- FILE: 13ALPSPREP



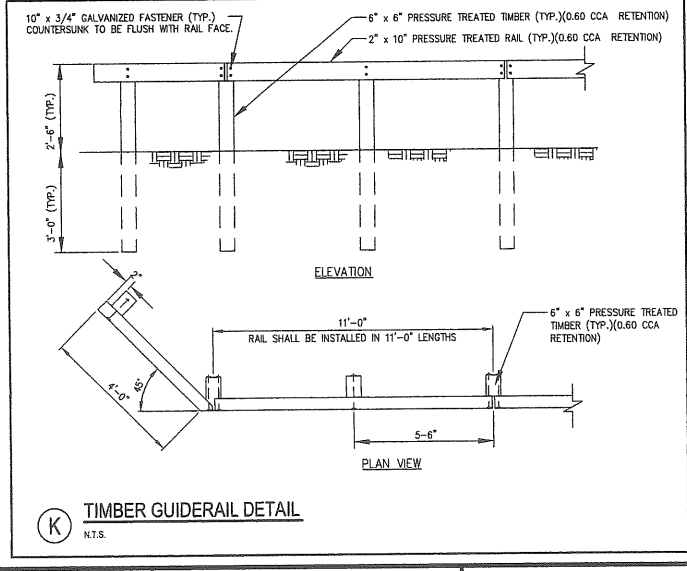
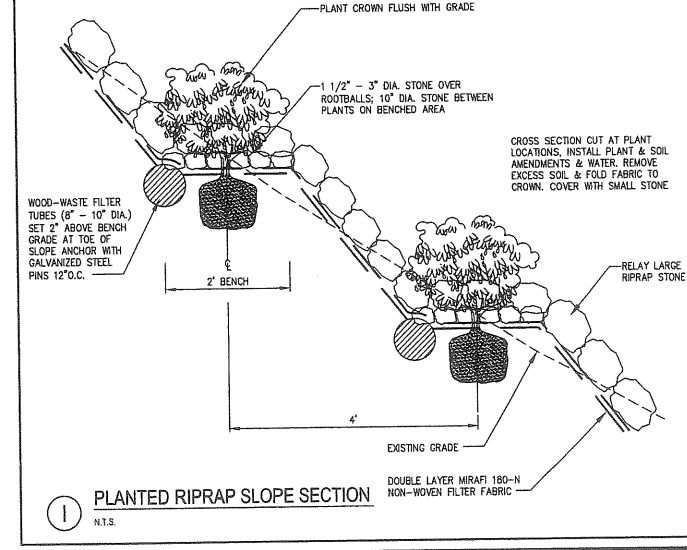
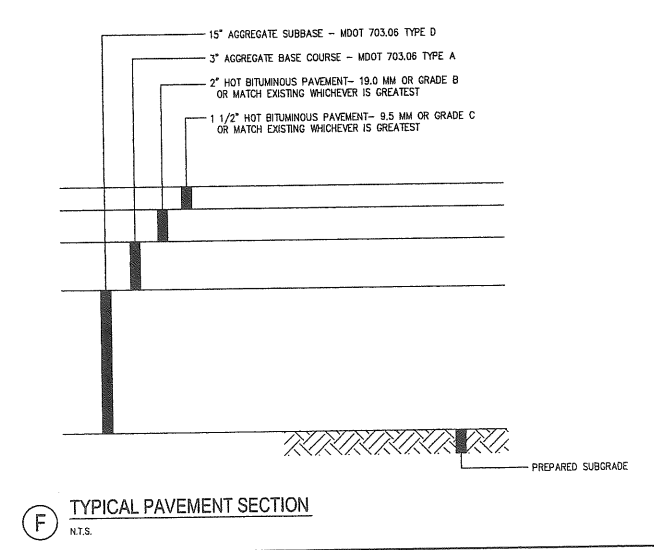
PERMANENT PAVEMENT
AFTER FREEZE/THAW CYCLE, GRIND TEMPORARY REPAIR AREA PLUS SIX (6) INCHES BEYOND IN ALL DIRECTIONS. MINIMUM OF ONE AND ONE-HALF (1 1/2) INCH DEPTH OVERLAY IN ACCORDANCE WITH CITY REGULATIONS. (TYP.)

TEMPORARY PAVEMENT
PLACED ON WELL COMPACTED BASE OF EXISTING AND NEW MATERIAL. EXTENDS TWELVE (12) INCHES BEYOND EXCAVATION. (TYP.)

NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"



NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"



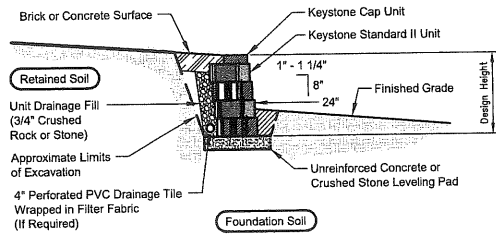
G:\2827 Crescent Street Apt\dwg\PERMIT\2827-DET.dwg, SITE & UTIL DET (2), 4/17/2009 11:12:02 AM, DDavis

REV	DATE	DESCRIPTION	REVISIONS
4	04.02.09	RELEASED FOR BIDDING	
3	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
2	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
1	12.19.08	RESUBMISSION TO CITY OF PORTLAND	

STATE OF MAINE
STEPHEN R. BUSHEY
No. 7429
LICENSED PROFESSIONAL ENGINEER

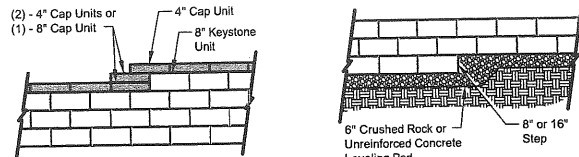
PROJECT: CRESCENT HEIGHTS
SHEET TITLE: SITE AND UTILITY DETAILS
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
779 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.776.1121 WWW.DELUCAHOFFMAN.COM
DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET: C-13B



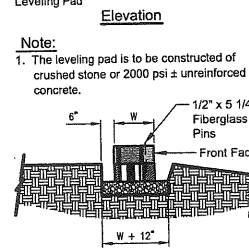
**TYPICAL GRAVITY WALL SECTION
BY KEYSTONE RETAINING WALL SYSTEMS**

A N.T.S. Standard II Unit - 1" Setback

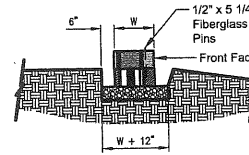


Note:
1. Secure all cap units with Keystone Kapseal or equal.

Top of Wall Steps



Note:
1. The leveling pad is to be constructed of crushed stone or 2000 psi ± unreinforced concrete.



**Section
Leveling Pad Detail**

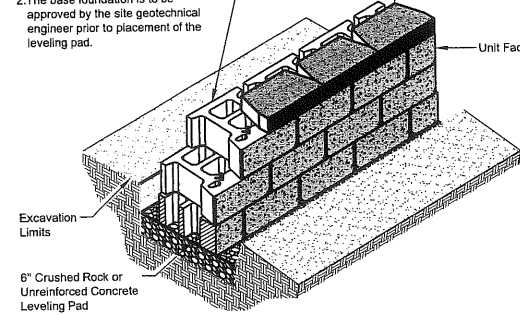
D TOP OF WALL STEPS AND LEVELING PAD DETAIL
N.T.S.

Base Leveling Pad Notes:

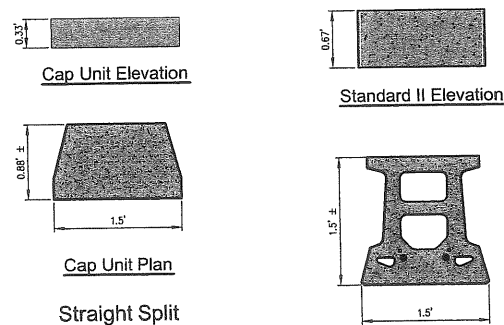
1. The leveling pad is to be constructed of crushed stone or 2,000 psi unreinforced concrete.

2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

Standard II Unit	Cap Unit
Width: 18"	Width: 18"
*Depth: 18"	*Depth: 10 1/2"
Height: 8"	Height: 4"
*Weight: 112 lbs	*Weight: 50 lbs



B STANDARD II UNIT/BASE PAD ISOMETRIC SECTION VIEW
N.T.S. * Dimensions & Weight May Vary by Region



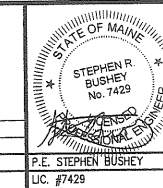
**Straight Split
Cap Unit Option**
* Dimensions & Availability
Will Vary by Region

**Standard II Plan
Standard II Unit**
* Dimensions May Vary
by Region

C STRAIGHT SPLIT CAP UNIT OPTION AND STANDARD II UNIT DETAIL
N.T.S.

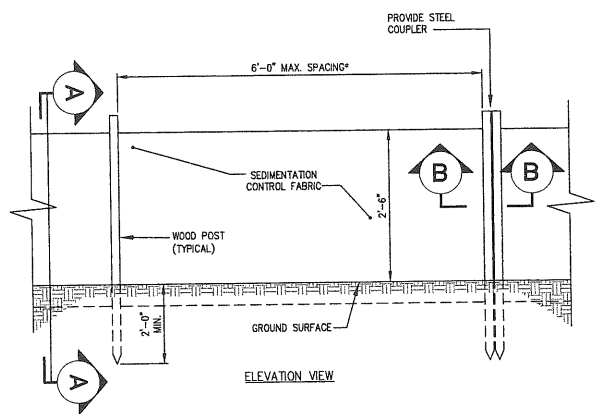
G:\2827 Crescent Street Apt\dwg\PERMIT\2827-DET.dwg, SITE & UTIL DET (3), 4/17/2009 11:23:52 AM, DDavis

REV	DATE	DESCRIPTION	REVISIONS
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1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	

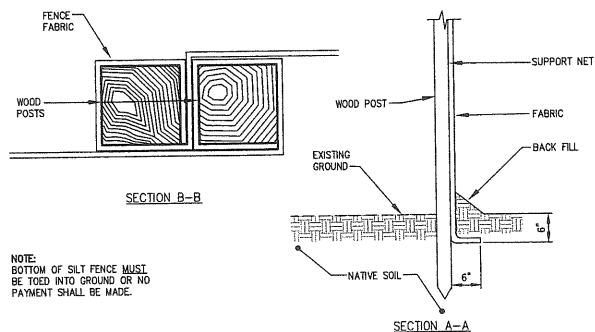


PROJECT	CRESCENT HEIGHTS
SHEET TITLE	SITE AND UTILITY DETAILS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC. 775 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM	
DRAWN:	DMB DATE: OCT 2008
CHECKED:	SRB SCALE: AS NOTED
FILE NAME:	2827-DET
SHEET	C-13C

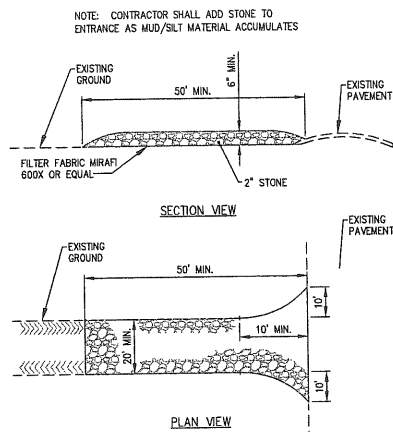


NOTE: THE SILT FENCE SHOULD HAVE A MINIMUM STAKING OF 6' UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT A MINIMUM 14 GAUGE AND WITH A MINIMUM MESH SPACING OF 6" IN WHICH CASE STAKES MAY BE SPACED AT 10'.

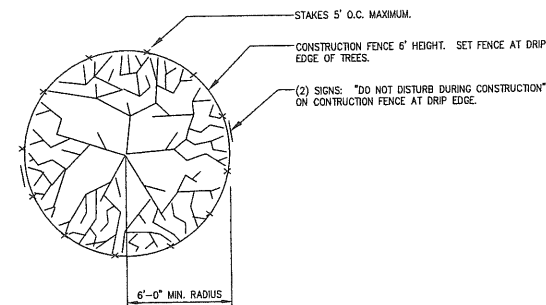


NOTE: BOTTOM OF SILT FENCE MUST BE TIED INTO GROUND OR NO PATENT SHALL BE MADE.

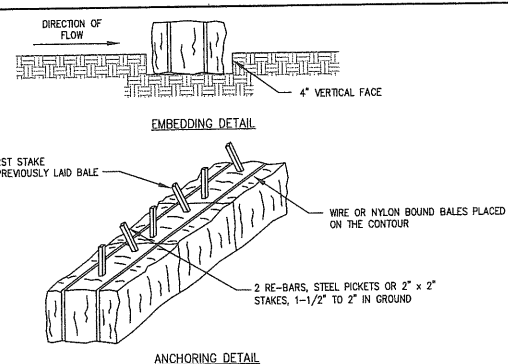
A SILTATION FENCE DETAIL
N.T.S.



C STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

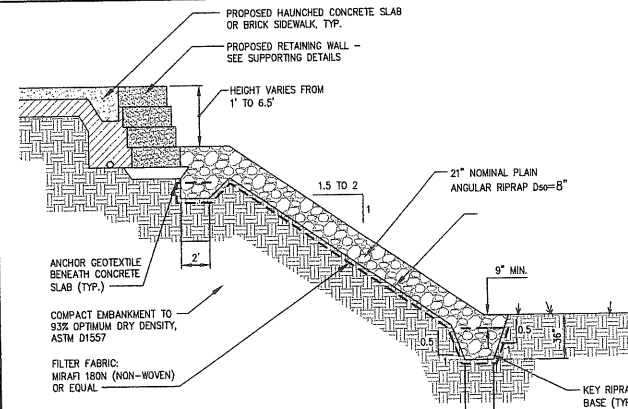


E TREE PROTECTION DETAIL
N.T.S.



- CONSTRUCTION SPECIFICATIONS**
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE WAS ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 - INSPECTION WILL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

D STRAW OR HAYBALE BARRIER
N.T.S.



F RIPRAP SLOPE DETAIL
N.T.S.

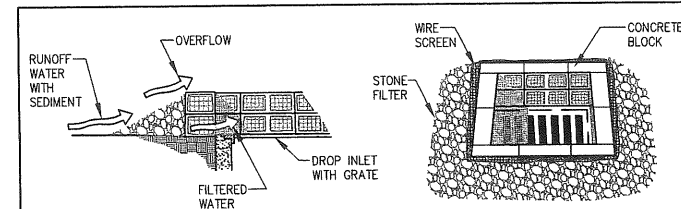
SILTSACK®
SPECIFICATIONS

NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

HI-FLOW SILTSACK® (FOR USE IN LOW POINTS/SAGS)
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

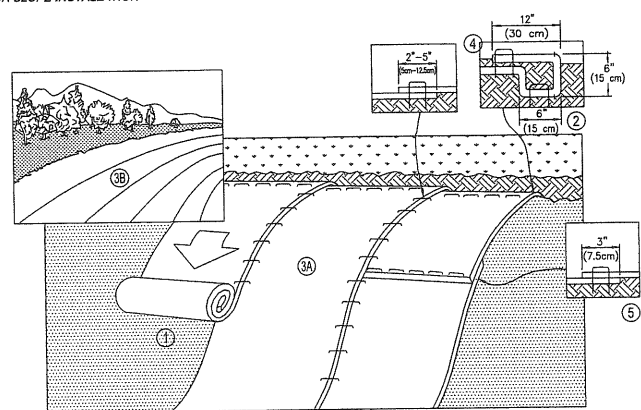
H SILT SACK® DETAIL & SPECIFICATIONS
N.T.S.



- SPECIFIC APPLICATION**
- THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
- NOTES:
- PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4", 8" AND 12" WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES HIGH, AND NO GREATER THAN 24 INCHES HIGH.
 - WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE USED.
 - STONE SHALL BE PALED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.
 - IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

I CATCH BASIN STONE SEDIMENT BARRIER DETAIL
N.T.S.

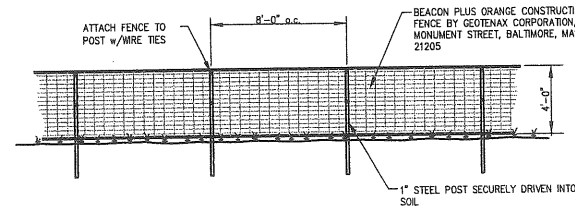
EROSIONAL CONTROL BLANKET DETAIL FOR SLOPE INSTALLATION



B EROSION CONTROL BLANKET

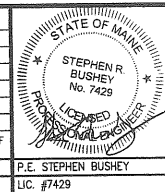
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND TOLD REMAINING 12" (30cm) PORTION OF THE BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.



G ORANGE CONSTRUCTION FENCE DETAIL
N.T.S.

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
6	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	
5	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND	
3	11.18.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT: CRESCENT HEIGHTS

SHEET TITLE: EROSION AND SEDIMENT CONTROL DETAILS

CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DESIGNED: SRB DATE: SEPT 2008

CHECKED: SRB SCALE: AS NOTED

FILE NAME: 2827-DET

SHEET: C-14

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

EROSION AND SEDIMENT CONTROL NOTES

The primary emphasis of the erosion/sedimentation control plan to be implemented for this project are as follows:
 Development of a careful construction sequence. Rapid revegetation of denuded areas to minimize the period of soil exposure. Rapid stabilization of drainage paths to avoid fill and gully erosion. The use of onsite measures to capture sediment (hay bales/silt fence, etc.) The provisions for long term erosion/sediment and pollutant treatment by the incorporation of permanent Best Management Practices.

Description and Location of Limits of All Proposed Earth Movements

The construction of the development will require the following on-site improvements:

Demolition of existing structures.

Earthwork activity including cuts and fills to bring the building pad and landscape areas to subgrade.

Construction of utilities.

Construction of building foundations.

Erosion/Sedimentation Control Devices

The following erosion and sediment control devices will be implemented by the Contractor as part of the site development. These devices shall be installed as indicated on the plans. For further reference, see the Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices, latest edition.

Siltation fence shall be installed downgradient of any disturbed areas to trap runoff borne sediments until the site is revegetated. The silt fence or erosion control mix barrier shall be installed per the details provided in the plan set and inspected immediately after each rainfall and at least daily during prolonged rainfall. Repairs shall be made immediately by the Contractor if there are any signs of erosion or sedimentation below the fence line. Proper placement of stakes and fabric into the ground is critical to the fence's effectiveness. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind the fence, the contractor shall perform measures to reduce concentrated flows.

Straw or hay mulch including hydroseeding is intended to provide cover for denuded or seeded areas until revegetation is established. Mulch placed on slopes of less than 10 percent shall be anchored by applying water, mulch placed on slopes steeper than 10 percent shall be covered with a fabric netting and anchored with staples in accordance with the manufacturer's recommendations. Slopes steeper than 3:1 which are to be revegetated shall receive Turf Reinforcement by North American Green or equal. Mulch application rates are provided at the end of this section. Hay mulch shall be available on site at all times in order to provide immediate temporary stabilization when necessary.

Riprap slopes, stone check dams, sod and hay bale barriers are intended to reduce runoff velocities and protect denuded soil surfaces from concentrated flows. Installation details and stone sizes are provided in the construction plan set on the erosion control detail sheets.

Construction entrance will be constructed at all access points onto the site to prevent tracking of soil onto Crescent Street or nearby streets.

Storm drain catch basin inlet protection shall be provided through the use of stone sediment barriers or a premanufactured SiltSack™ as distributed by A. H. Harris. Stone sediment barrier installation details are provided in the plan set. The barriers shall be inspected after each rainfall and repairs made as necessary. Sediment shall be removed and the barrier restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the barrier. The barrier shall be removed when the tributary drainage area has been stabilized.

Sod is intended to serve as the primary permanent revegetative measure within the #25/ #29 development area for all denuded areas not provided with other erosion control measures, such as riprap or mulched planting beds. The #15 Crescent Street site shall receive 6" top soil, lime, fertilizer, seed and mulch at the end of construction once the site is no longer used for staging/ materials storage

Temporary Erosion/Sedimentation Control Measures

The following are planned as temporary erosion/sedimentation control measures during construction:

Crushed stone stabilized construction entrance(s) shall be placed at the site access to Crescent Street.

Siltation fence shall be installed along the downgradient side of all disturbed areas. The siltation barrier will remain in place and properly maintained until the site is acceptably revegetated. Multiple rows of silt fence may be required due to the project site's steeper grades.

Stumps, grubblings, or common excavation shall be removed from the site as the work proceeds. Temporary stockpiles shall not be allowed due to the lack of available space and the steepness of the site.

All denuded areas which have been rough graded and are not located within the building pad or pavement subbase area, shall receive temporary mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch, applied at twice the normal application rate and anchored with a fabric netting. The time period for applying mulch shall be limited to 3 days for all areas or immediately in advance of a predicted rainfall event.

Crescent Street and Wescott Street shall be swept to control mud and dust as necessary. A street sweeper shall be available on immediate notice.

During grubbing operations stone check dams will be installed at any evident concentrated flow discharge points.

Silt fencing with a maximum stake spacing of 6 feet should be used, unless the fence is supported by wire fence reinforcement of minimum 14 gauge and with a maximum mesh spacing of 6 inches, in which case stakes may be spaced a maximum of 10 feet apart. The bottom of the fence should be properly anchored a minimum of 6" per the plan detail and backfilled. Any silt fence identified by the owner or reviewing agencies as not being properly installed during construction shall be immediately repaired in accordance with the installation details.

The contractor may choose to place temporary plastic sheeting anchored with sand bags along steeper exposed slopes or foundation construction areas to protect denuded ground surface and to protect subgrade areas.

All turbid water within trenches or excavations shall be pumped into an approved sediment removal device such as a Dirtbag or approved equal. If necessary turbid water shall be pumped into a vac truck and removed from the site and disposed of at an approved off site location.

Permanent Erosion Control Measures

The following permanent erosion control measures have been designed as part of the Erosion/Sedimentation Control Plan:

The foundation drain pipe shall have a riprap apron and level spreader at the outlet to protect the outlet from scour and deterioration. Installation details are provided in the plan set. The apron shall be installed and stabilized immediately upon pipe installation.

All areas disturbed during construction, but not subject to other restoration (paving, riprap, planting beds, etc.) will be loamed, limed, and sodded within the proposed building site. The #15 Crescent Street site shall be used as a staging area for the project once the existing building is demolished. At the end of construction all denuded area at #15 Crescent Street shall be loamed (6" min.), limed, fertilized, mulched and seeded within 7 days of final cleanup.

Timing and Sequence of Erosion/Sedimentation Control Measures

The following construction sequence shall be required to insure the effectiveness of the erosion and sedimentation control measures are optimized. The sequence applies to all phases of construction.

For all grading activities, the contractor shall exercise extreme caution not to overexpose the site by limiting the disturbed areas.

Install crushed stone stabilized construction entrances as shown on plans. Install perimeter siltation barriers as indicated on the plans.

Demolish the existing buildings and foundations and clear and grub areas necessary for the utilities and new building foundation areas.

Begin excavation.

Excess materials shall be removed from the site.

Perform earthwork to bring building pad to subgrade.

Begin installation of drainage appurtenances and piping and utilities.

Complete installation of storm drainage appurtenances within landscaped areas.

Structures within the landscaped areas shall be temporarily set to subgrade and shall be reset upon placement of final loam and seeding or other surface restoration measures.

Complete all remaining earthwork operations including fine grading of slopes.

Install subbase and base gravels within sidewalk or other hardsurface areas.

Install base course paving for sidewalks.

Loam, lime, fertilize, seed or sod and mulch disturbed areas and complete all landscaping.

Install brick paving for sidewalk areas.

Remove accumulated sediment from ahead of any sediment barriers as necessary.

Once the site is stabilized, a 90% catch of vegetation has been obtained, remove all temporary erosion control measures.

Touch up grassed areas by fertilizing and regrassing as necessary.

Note: All denuded areas not subject to final paving, riprap or gravel, shall be revegetated.

For all work which will be conducted between November 1 and April 15 of the calendar year, the Contractor shall submit a schedule which will satisfy the following criteria:

Limit the amount of exposed area to those areas in which work is expected to be undertaken during the proceeding 7 days.

During the construction process, all disturbed areas shall be temporarily covered with mulch within 3 days of final grading if not otherwise available for final riprap, planting bed or sod treatment.

Once final grades have been established, the contractor may choose to dormant seed the disturbed areas prior to placement of mulch and placement of fabric netting anchored with staples.

If dormant seeding is used for temporary stabilization of the site, all disturbed areas shall receive 6" of loam and seed at an application rate of 6#/1000 s.f.

All areas seeded during the winter months will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 90 percent catch) shall be revegetated by replacing loam, seed and mulch.

If dormant seeding is not used for the site, all disturbed areas shall be revegetated with temporary seeding or permanent landscaping and sod in the spring.

The area of denuded non-stabilized construction shall be limited to the minimum area practicable. An area shall be considered to be denuded until the subbase gravel is installed in sidewalk areas, the base slab gravel is installed in building areas, or the areas of future landscape treatment have been loamed, seeded, and mulched or fully sodded. The mulch rate shall be twice the rate specified. [For example, 115#/1,000 s.f. x 2 = 230#/1,000s.f.]

The Contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions at no extra expense to the owner.

PERMANENT SEEDING PLAN - LOW MAINTENANCE- #15 & #25 CRESCENT STREET SITES

Project CRESCENT HEIGHTS

Site Location Portland, Maine

1. Area to be seeded: <1 acre, OR 20M Sq. Ft.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: #/acres, OR 138#/M Sq. Ft.

4. Fertilize with pounds of N-P-K/ac. OR 20 pounds of 10 - 20 - 20 N-P-K/M Sq. Ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

- 30% Creeping Red Fescue
- 35% Tall Fescue
- 20% Perennial Ryegrass
- 15% Annual Ryegrass

7. Mulching instructions: Apply at the rate of tons per acre. OR 115 pounds per M. Sq. Ft.

Amount Unit #, Tons, Etc.

8. TOTAL LIME 138 #/1000 sq. ft.

9. TOTAL FERTILIZER 20 #/1000 sq. ft.

10. TOTAL SEED 6 #/1000 sq. ft.

11. TOTAL MULCH 115 #/1000 sq. ft.

12. TOTAL other materials, seeds, etc.

13. REMARKS

Spring seeding is recommended, however, late summer (prior to September 1) seeding can be made. Permanent seeding should be made prior to October 15 or as a dormant seeding after the first killing frost and before the first snowfall. If seeding cannot be done within these seeding dates, temporary seeding and mulching shall be used to protect the site. Permanent seeding shall be delayed until the next recommended seeding period.

Fertilizer and lime requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer and lime application rates to the owner

TEMPORARY SEEDING PLAN (APPLICABLE TO BOTH #15 CRESCENT STREET AND #25/ #29 CRESCENT STREET)

Project CRESCENT HEIGHTS

Site Location Portland, Maine

1. Area to be seeded: <1 acre, OR 20M Sq. Ft.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: #/acres, OR 138#/M Sq. Ft.

4. Fertilize with pounds of N-P-K/ac. OR 20 pounds of 10 - 20 - 20 N-P-K/M Sq. Ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

- 50% Perennial Ryegrass
- 50% Annual Ryegrass

When using small grain as nurse crop seed it at one-half the normal seeding rate.

7. Mulching instructions: Apply at the rate of tons per acre. OR 230 pounds per M. Sq. Ft.

Amount Unit #, Tons, Etc.

8. TOTAL LIME 138 #/1000 sq. ft.

9. TOTAL FERTILIZER 20 #/1000 sq. ft.

10. TOTAL SEED 2 #/1000 sq. ft.

11. TOTAL MULCH 230 #/1000 sq. ft.

12. TOTAL other materials, seeds, etc.

13. REMARKS

Recommended seeding dates after August 15. For areas with slopes >10% and fall and winter erosion control areas, mulch netting shall be used per manufacturer's specifications.

Fertilizer requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer application rates to the owner

SPECIFICATIONS AND REQUIREMENTS FOR DEWATERING

THIS PROJECT MAY REQUIRE THE DISCHARGE OF CONSTRUCTION DEWATERING AND TURBID LADEN RUNOFF, TO BE DIRECTED AND DISCHARGED THROUGH A DIRTBAG, WITHIN A DEWATERING SLUMP.

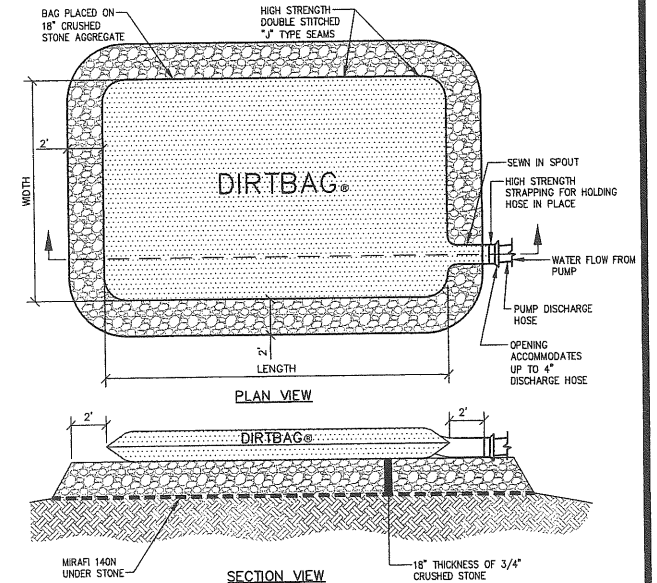
REQUIREMENTS FOR DIRTBAGS:

AT ALL TIMES THERE MUST BE AN UNUSED DIRTBAG AVAILABLE FOR EMERGENCY USE.

AT ALL TIMES (AFTER INITIAL SITE PREPARATION), THE CONTRACTOR SHALL HAVE ONE DIRTBAG ACTIVE OR READY FOR USE. THE DIRTBAGS SHALL BE FIELD LOCATED BY THE CONTRACTOR. THE DIRTBAG SHALL BE INSTALLED ON A PREPARED SUBGRADE. THIS SUBGRADE SHALL CONSIST OF THE INSTALLATION OF A LAYER OF MIRAFI 140N, AND 18 INCHES OF 3/4" INCH CRUSHED STONE. THE PLAN DIMENSION OF THE CRUSHED STONE PAD SHALL EXCEED THE PLAN AREA OF THE DIRTBAG BY AT LEAST TWO FEET IN ALL DIRECTIONS. THE DIRTBAG SHALL NOT BE INSTALLED ON AN UNDERLYING SLOPE OF GREATER THAN 15 PERCENT.

CONSTRUCTION DEWATERING OPERATIONS:

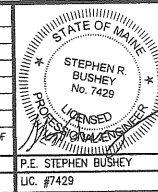
ALL CONSTRUCTION-DEWATERING OPERATIONS ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR. IT SHALL BE THE SITE CONTRACTOR WHO IS RESPONSIBLE FOR SELECTING THE SITE FOR THE DIRTBAG, THE SELECTION OF THE USE OF THE DIRTBAG OR THE SEDIMENTATION BASIN FOR DIRECTING DEWATERING, EXCEPT THAT THE OWNER MAY DIRECT THE SITE CONTRACTOR TO ALTER THE SELECTED OPERATION IF TURBID DISCHARGE IS OBSERVED.



DIRTBAG DETAIL & SPECIFICATIONS

N.T.S.

REV	DATE	DESCRIPTION	REVISIONS
7	04.02.09	RELEASED FOR BIDDING	
6	03.17.09	100% PLANS - RELEASED FOR GR REVIEW	
5	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND	
3	11.18.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	08.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT
CRESCENT HEIGHTS

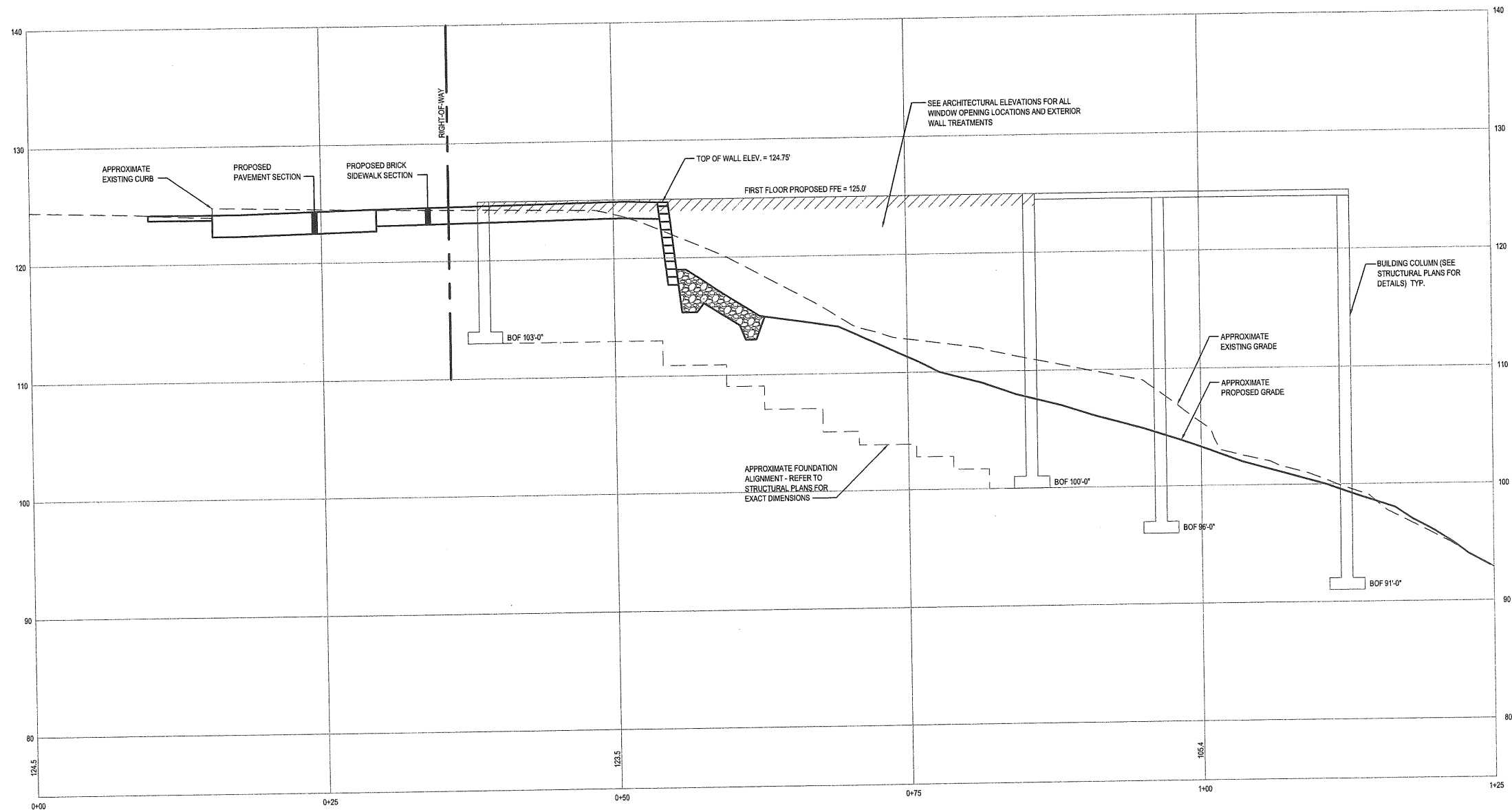
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES

CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELUCAHOFFMAN.COM

DRAWN: OMB | DATE: SEPT 2008
 DESIGNED: SRB | SCALE: AS NOTED
 CHECKED: SRB | JOB NO.: 2827
 FILE NAME: 2827-DET
 SHEET: **C-15**

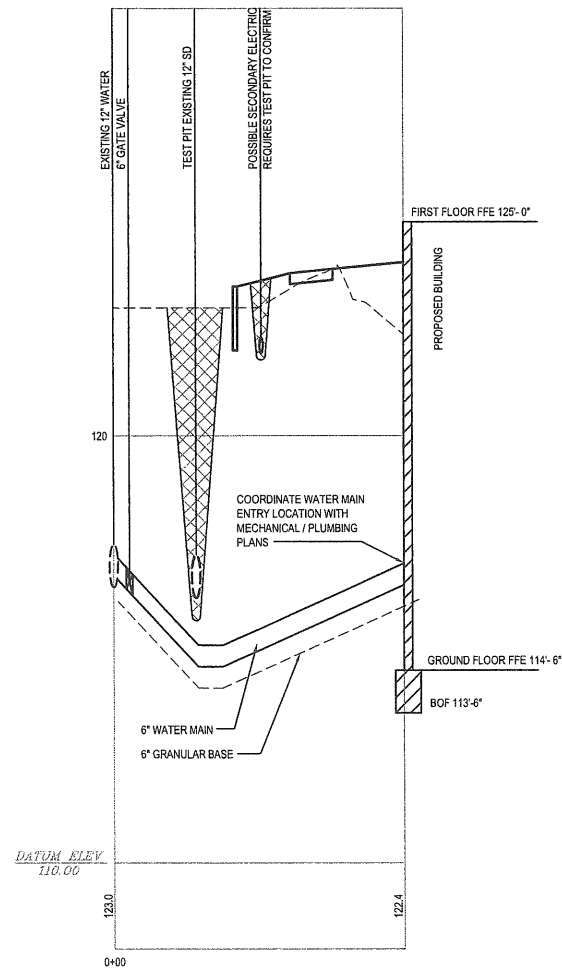
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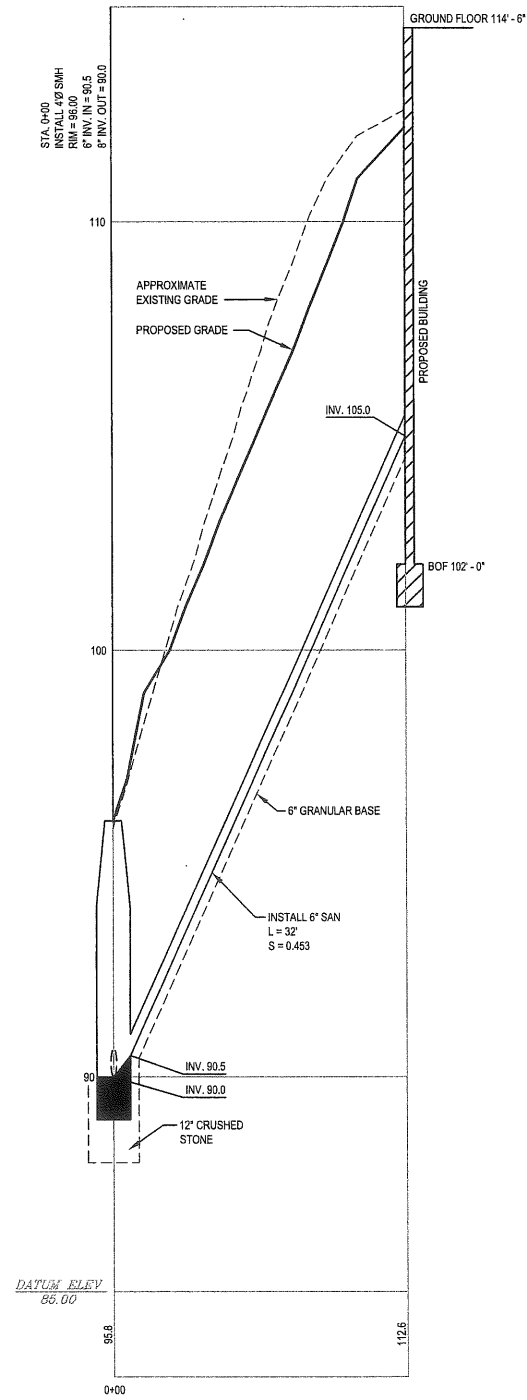
SITE CROSS SECTION
SCALE: H: 1" = 5'; V: 1" = 5'

<table border="1"> <tr> <td>2</td> <td>04.02.09</td> <td>RELEASED FOR BIDDING</td> </tr> <tr> <td>1</td> <td>03.17.09</td> <td>100% PLANS - RELEASED FOR CM REVIEW</td> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </table>		2	04.02.09	RELEASED FOR BIDDING	1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW	REV	DATE	DESCRIPTION	<p>STATE OF MAINE STEPHEN R. BUSHEY No. 7429 LICENSED PROFESSIONAL ENGINEER</p> <p>P.E. STEPHEN BUSHEY LIC. #7429</p>	<p>PROJECT: CRESCENT HEIGHTS</p> <p>SHEET TITLE: SITE CROSS SECTION (FOR REFERENCE ONLY)</p> <p>CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS</p>	<p>DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1151 WWW.DELUCAHOFFMAN.COM</p> <p>DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: AS NOTED CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-SP SHEET: C-16</p>
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1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW											
REV	DATE	DESCRIPTION											

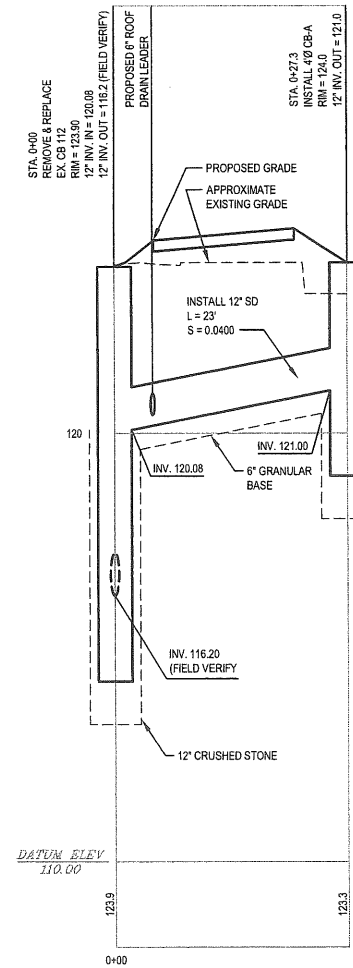
G:\2827 Crescent Street App\dwg\OPTION 2\2827-SP-OPTION 2.dwg, UTILITY PROFILES, 4/3/2019 8:19:38 AM, cwhitemute



WATER MAIN PROFILE A
SCALE: H: 1" = 10'; V: 1" = 2'



SANITARY SEWER PROFILE A
SCALE: H: 1" = 10'; V: 1" = 2'



STORMDRAIN PROFILE A
SCALE: H: 1" = 10'; V: 1" = 2'

REV	DATE	DESCRIPTION
2	04.02.09	RELEASED FOR BIDDING
1	03.17.09	100% PLANS - RELEASED FOR CM REVIEW

STATE OF MAINE
STEPHEN R. BUSHEY
No. 7429
P.E. STEPHEN BUSHEY
LIC. #7429

PROJECT: CRESCENT HEIGHTS
SHEET TITLE: UTILITY PROFILES
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DLH DeLuca-Hoffman Associates, Inc.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET: C-17

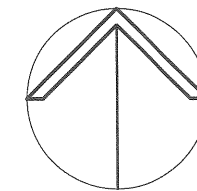
53-E-14

2008-0140

29 Chestnut St.

Crescent ~~St Apts.~~ Heights

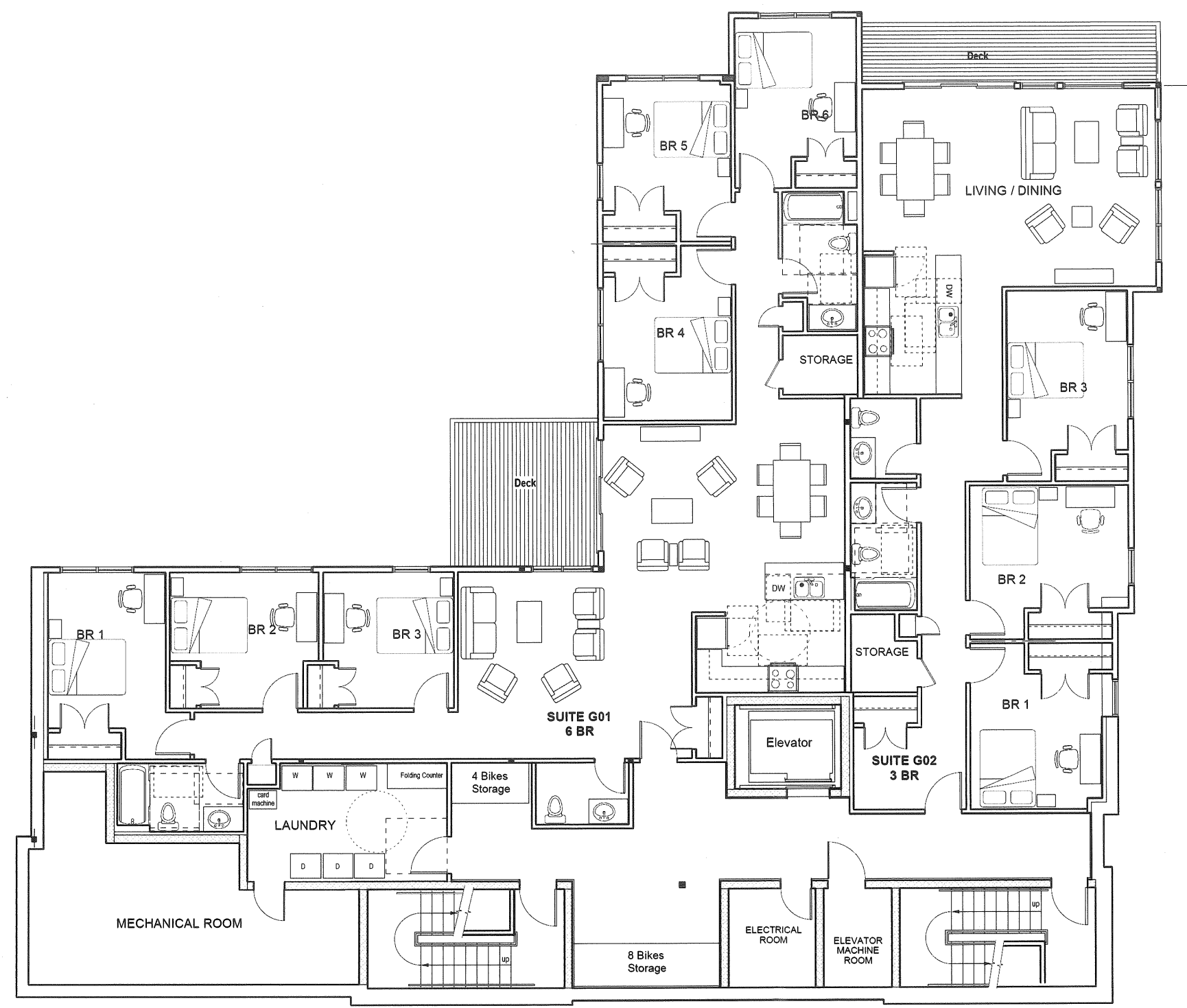
Developers Collaborative



NORTH



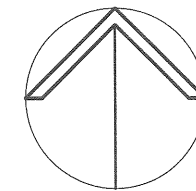
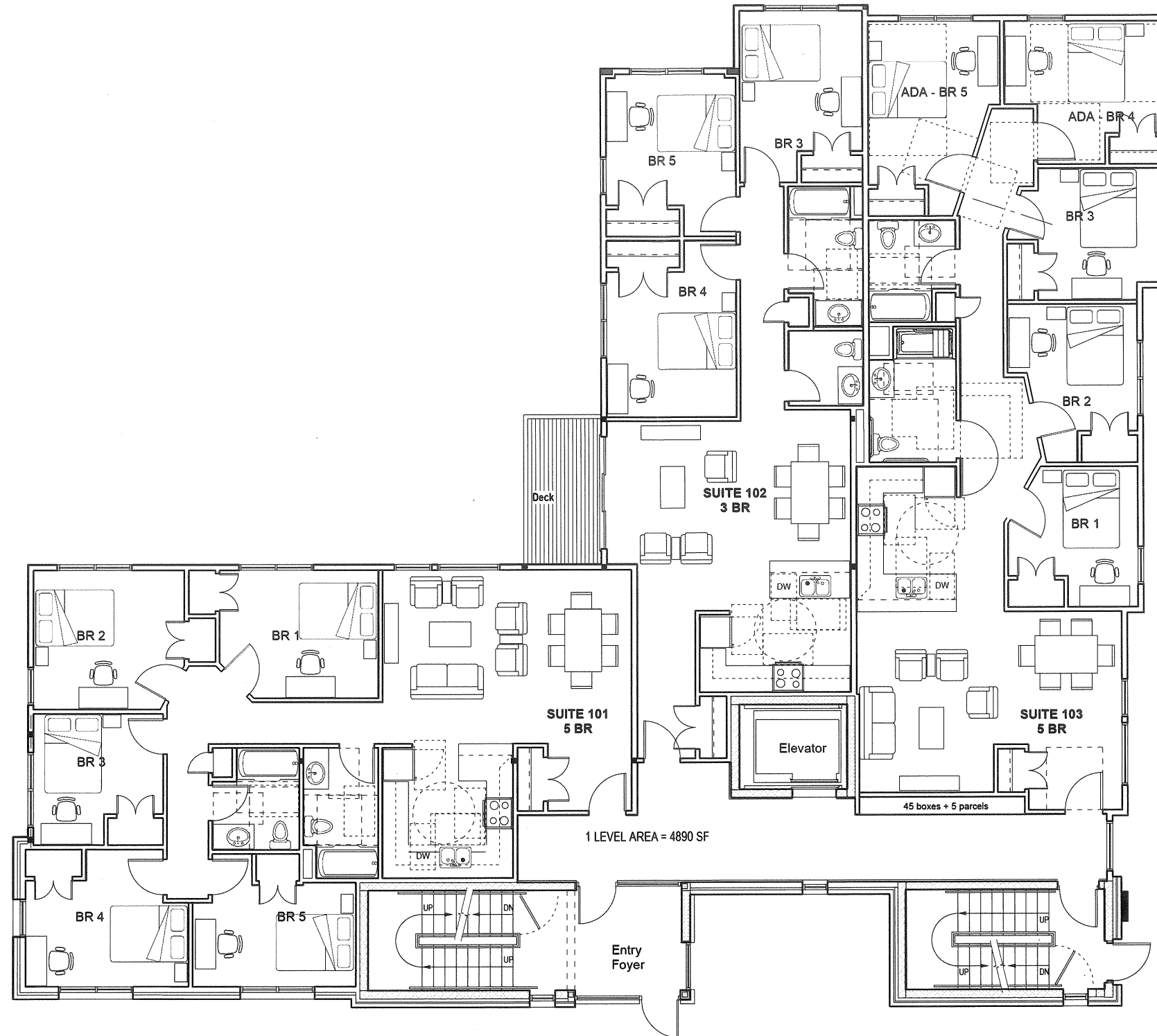
SCALE: 3/16" = 1' - 0"



Ground Floor Plan
A 1.1

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects
January 12, 2008



NORTH

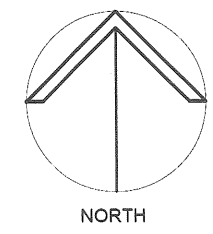


SCALE: 3/16" = 1' - 0"

**First Floor Plan
A 1.2**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects
January 12, 2008

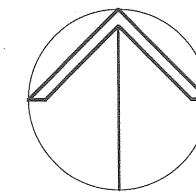
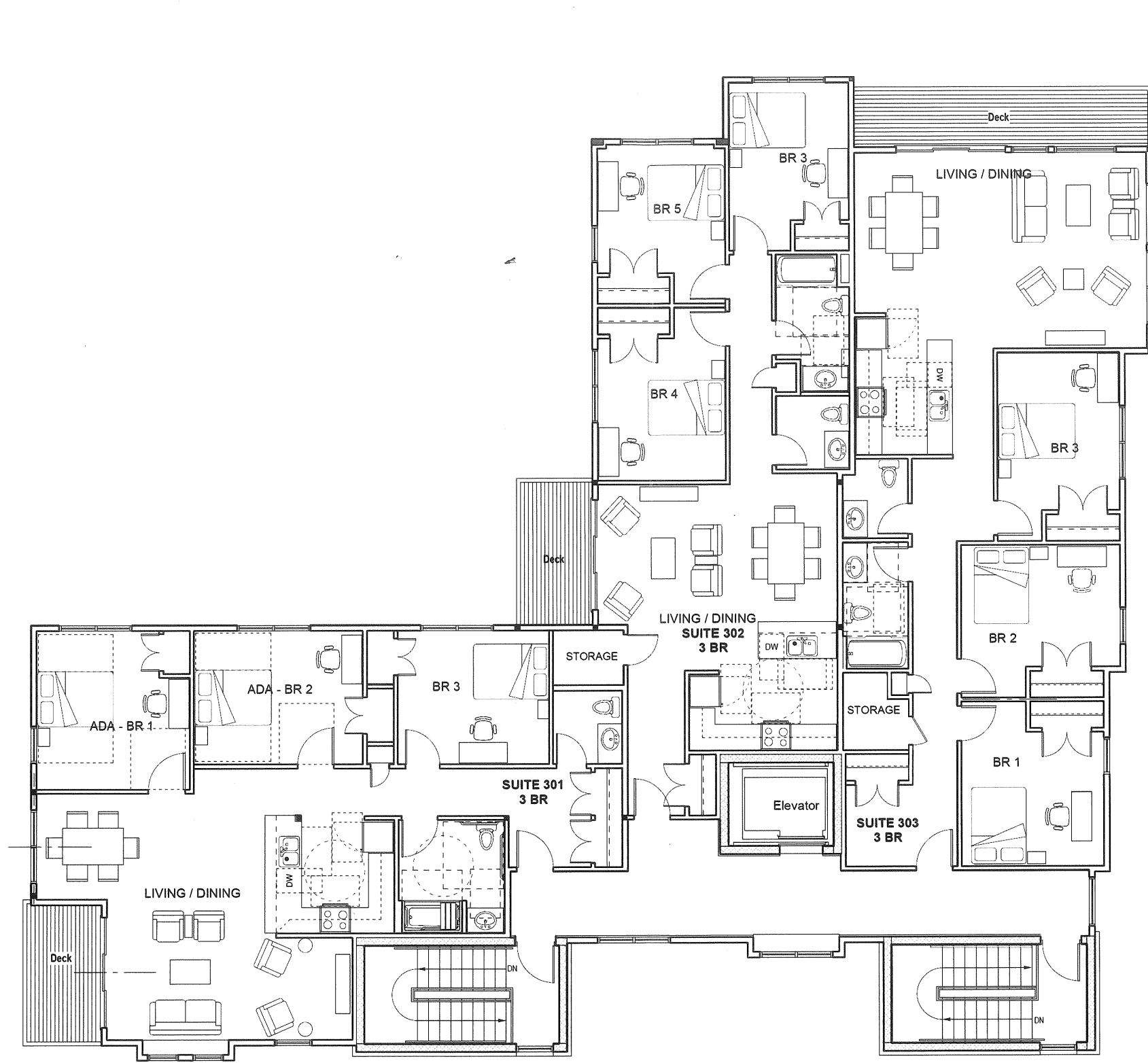


SCALE: 3/16" = 1' - 0"

**Second Floor Plan
A 1.3**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects
January 12, 2008



NORTH



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

**Third Floor Plan
A 1.4**

Crescent Heights
 25 - 29 Crescent Street
 Portland, Maine
 Developers Collaborative

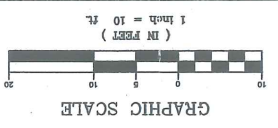
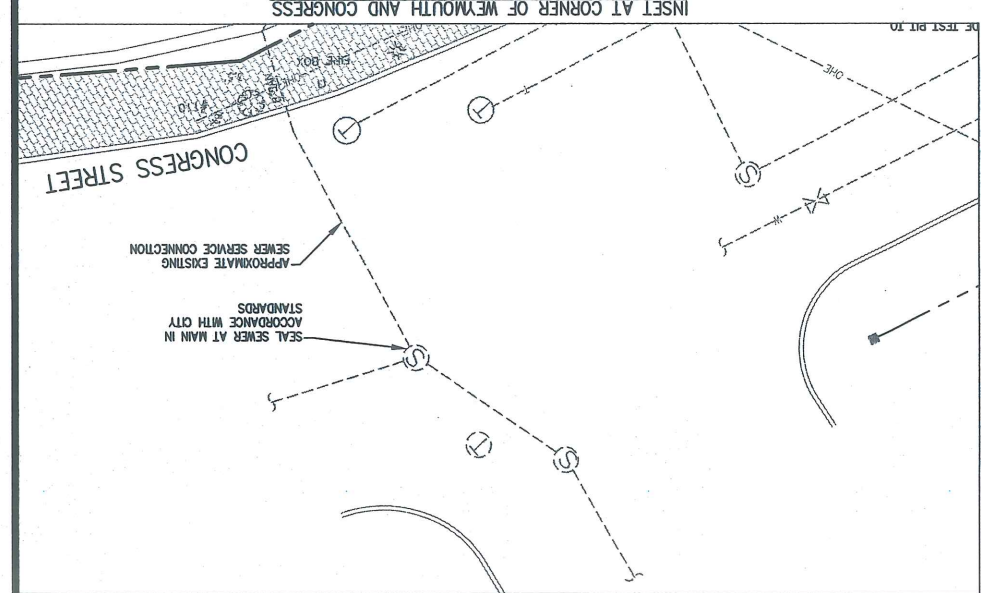
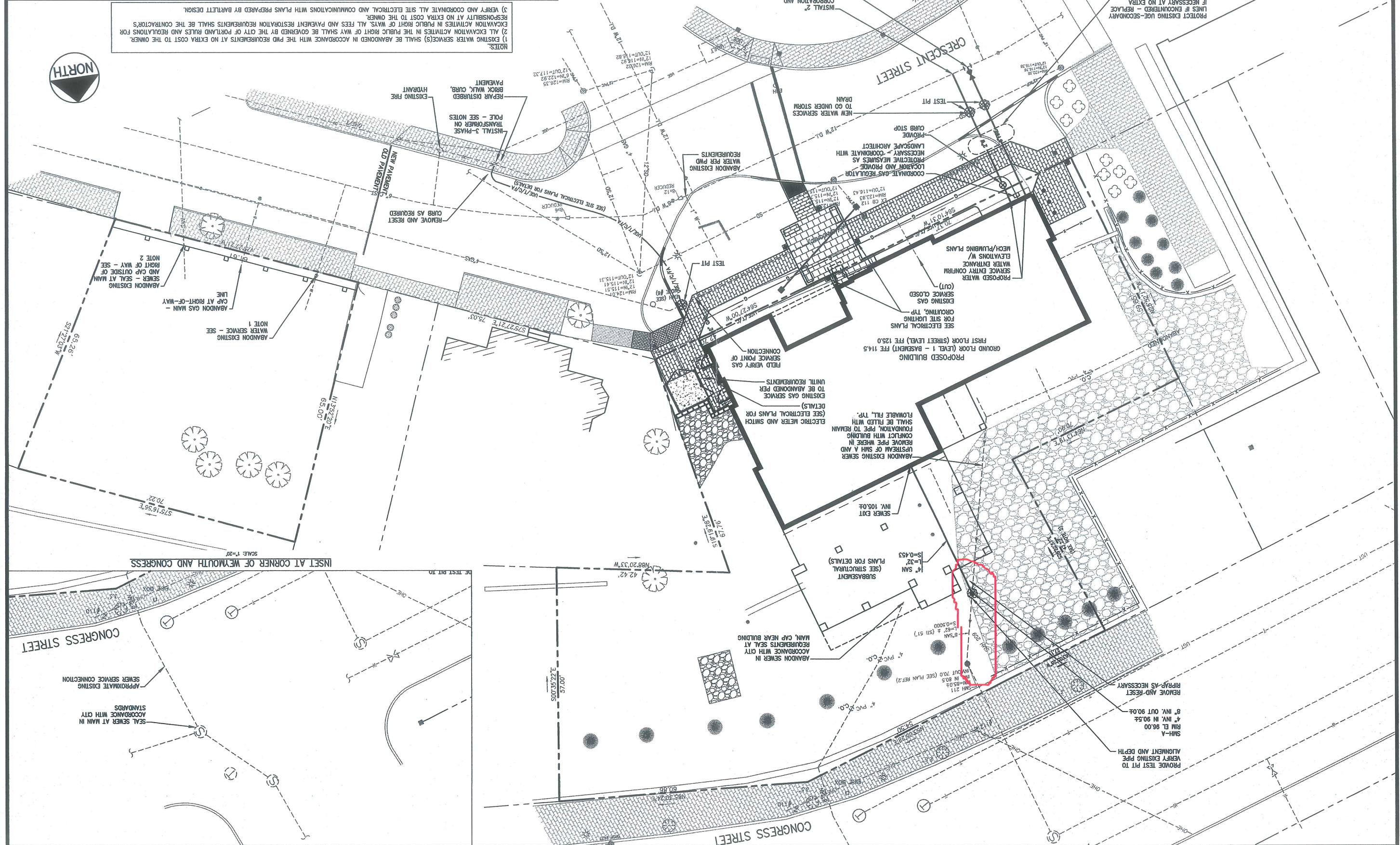
Winton Scott Architects
 January 12, 2008

PROJECT	CRESCENT HEIGHTS
SHEET TITLE	UTILITY PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
DATE	SEPT 2008
DRAWN	DMB
DESIGNED	SRB
CHECKED	SRB
FILE NAME	2027-SP
SHEET	C-10

REV	DATE	DESCRIPTION
7	04.02.09	RELEASED FOR BIDDING
6	03.17.09	100% PLANS - RELEASED FOR QA REVIEW
5	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND
4	12.19.08	RESUBMITTED TO CITY OF PORTLAND
3	11.18.08	SUBMITTED TO CITY OF PORTLAND
2	09.24.08	REFILES SUBMISSION TO CITY OF PORTLAND
1	09.19.08	FOR PLAN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



NOTES:
1) EXISTING WATER SERVICE(S) SHALL BE ABANDONED IN ACCORDANCE WITH THE PWD REQUIREMENTS AT NO EXTRA COST TO THE OWNER.
2) ALL EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY SHALL BE GOVERNED BY THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAY. ALL FEES AND PAYMENT RESTORATION REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO EXTRA COST TO THE OWNER.
3) VERIFY AND COORDINATE ALL SITE ELECTRICAL AND COMMUNICATIONS WITH PLANS PREPARED BY BARLETT DESIGN.



PROTECT EXISTING USE-SECONDARY LINES IF ENCOUNTERED - REPLACE IF NECESSARY AT NO EXTRA EXPENSE TO THE OWNER

INSTALL 2" 6"x12" TAPPING SLEEVE AND 2" CURB STOP

INSTALL 2" CORPORATION AND GATE VALVE

EXISTING FIRE HYDRANT

CRESCENT STREET

CONGRESS STREET

PROPOSED BUILDING

GROUND FLOOR (LEVEL 1 - BASEMENT) FFE 114.5

FIRST FLOOR (STREET LEVEL) FFE 125.0

SEE ELECTRICAL PLANS FOR SITE LIGHTING CIRCUITING, TYP

EXISTING GAS SERVICE CLOSED

PROPOSED WATER SERVICE ENTRY CONDUIT

WATER ENTRANCES/ELEVATIONS W/MECH/PLUMBING PLANS

LOCATION AND PROVIDE PROTECTIVE MEASURES AS NECESSARY - COORDINATE WITH LANDSCAPE ARCHITECT

PROVIDE CURB STOP

TEST PIT

NEW WATER SERVICES TO GO UNDER STORM DRAIN

EXISTING FIRE HYDRANT

REPAIR DISTURBED BRICK WALL, CURB, PAVEMENT

INSTALL 3-PHASE TRANSFORMER ON POLE - SEE NOTES

REMOVE AND RESET CURB AS REQUIRED

NEW PAVEMENT OLD PAVEMENT

ABANDON EXISTING WATER PER PAD REQUIREMENTS

FIELD VERIFY GAS SERVICE POINT OF CONNECTION

ELECTRIC METER AND SWITCH (SEE ELECTRICAL PLANS FOR DETAILS)

EXISTING GAS SERVICE TO BE ABANDONED PER DETAIL(S)

UPSTREAM OF SAN A AND REMOVE PIPE WHERE IN CONFLICT WITH BUILDING FOUNDATION. PIPE TO REMAIN SHALL BE FILLED WITH FLOWABLE FILL, TYP.

ABANDON EXISTING SEMER

SEWER EXIT INV. 105.04

SEWER SERVICE CONNECTION

REMOVE AND RESET RIRAP AS NECESSARY

8" INV. OUT 90.04

4" INV. IN 90.54

SMH-A RM EL. 96.00

PROVIDE TEST PIT TO VERIFY EXISTING PIPE ALIGNMENT AND DEPTH

SMH-A RM EL. 96.00

4" INV. IN 90.54

8" INV. OUT 90.04

REMOVE AND RESET RIRAP AS NECESSARY

SEWER SERVICE CONNECTION

APPROXIMATE EXISTING SEWER AT MAIN IN STANDARDS

SEAL SEMER AT MAIN IN ACCORDANCE WITH CITY STANDARDS

INSET AT CORNER OF WYEMOUTH AND CONGRESS

SCALE: 1"=20'

SEWER SERVICE CONNECTION

APPROXIMATE EXISTING SEWER AT MAIN IN STANDARDS

SEAL SEMER AT MAIN IN ACCORDANCE WITH CITY STANDARDS

F27

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

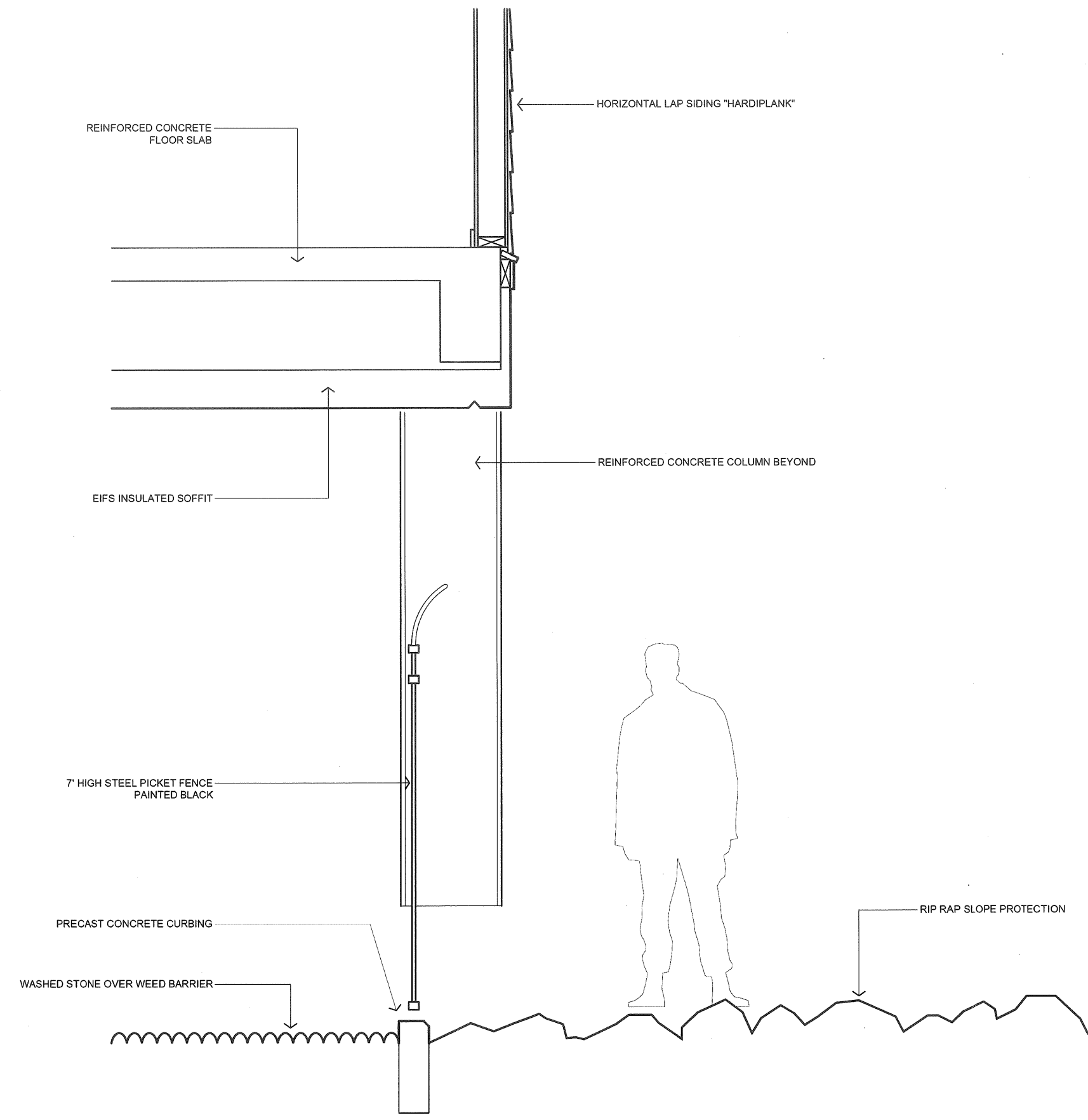
Winton Scott Architects

January 19, 2009

A 3.1

Understory Enclosure Fence

1" = 1' - 0"





CRESCENT HEIGHTS
CRESCENT STREET ELEVATION

Developers Collaborative / Winton Scott Architects



LEASE
MALONE
772-2422

LEASE
MALONE
772-2422



SACOPEE RESCUE
AMBULANCE

FOR LEASE
MALONE
772-2422

FOR LEASE
MALONE
772-2422

PROJECT PARCEL SITE

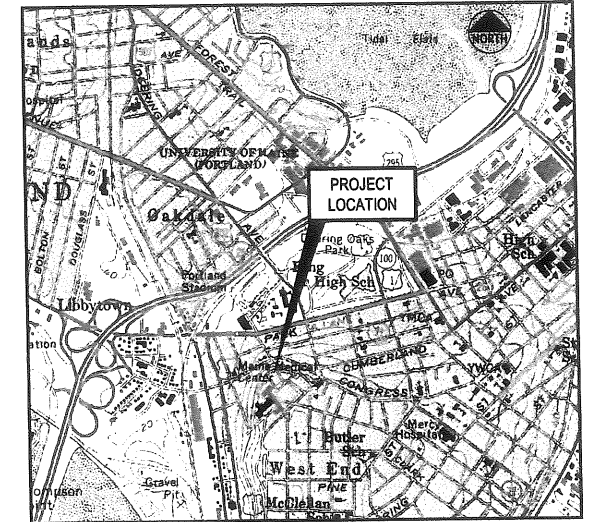
ZONING: RESIDENTIAL - 6

PORTLAND TAX ASSESSOR'S MAP & LOT NUMBERS:

MAP	BLOCK	LOTS
53	E	4,5,6,14,15, AND PORTION OF LOT 3 (#25 & #29 CRESCENT STREET)
53	F	6 (#15 CRESCENT STREET)

OWNER/ APPLICANT:
CRESCENT HEIGHTS LLC
 17 CHESTNUT STREET
 PORTLAND, MAINE 04101
 TEL. 207.772.7673
 FAX 207.253.5183

SITE DEVELOPMENT PLANS FOR CRESCENT HEIGHTS A 44-BED LODGING HOUSE AT #29 + #25 CRESCENT STREET (PROJECT INCLUDES DEMOLITION AND RE-LANDSCAPING OF #15 CRESCENT STREET) PORTLAND, MAINE



LOCATION MAP
N.T.S.

INDEX

- C-1 COVER SHEET
- C-2 GENERAL NOTES AND LEGEND
- C-3 BOUNDARY SURVEY
- C-4 EXISTING CONDITIONS
- C-5 MMC RETAINING WALL TIEBACKS
- C-5A SITE CROSS-SECTION
- C-6 DEMOLITION PHASE EROSION CONTROL PLAN
- C-7 DEMOLITION PLAN
- C-8 SITE LAYOUT PLAN
- C-9 GRADING AND DRAINAGE PLAN
- C-10 UTILITY PLAN
- C-11 LANDSCAPE PLAN
- C-12 LANDSCAPE AND SITE FURNISHINGS DETAILS
- C-13A SITE AND UTILITY DETAILS
- C-13B SITE AND UTILITY DETAILS
- C-14 EROSION & SEDIMENT CONTROL DETAILS
- C-15 EROSION & SEDIMENT CONTROL NOTES

UTILITIES

- WATER**
 ATTN: RICO SPUGNARDI
 PORTLAND WATER DISTRICT
 22 DOUGLAS STREET
 P.O. BOX 3533
 PORTLAND, MAINE 04104
 207.761.8310
- SEWER**
 CITY OF PORTLAND
 PUBLIC WORKS ENGINEERING DEPT.
 55 PORTLAND STREET
 PORTLAND, MAINE 04102
 207-974-8840
- POWER**
 ATTN: PAUL DUPERRE
 CENTRAL MAINE POWER
 162 CANCO ROAD
 PORTLAND, MAINE 04103
 207.791.1023
- TELEPHONE**
 ATTN: SUE SERRETTE
 FAIRPOINT COMMUNICATIONS
 ONE DAVIS FARM ROAD
 PORTLAND, MAINE 04103
 207.797.1842
- NATURAL GAS**
 ATTN: MIKE SMITH
 NORTHERN UTILITIES
 1075 FOREST AVENUE
 PORTLAND, MAINE 04103
 207.797.8002 EXT. 6220

PERMITS

- LOCAL**
 SITE PLAN PERMIT
 GOVERNING BODY
 CITY OF PORTLAND PLANNING AUTHORITY
 CITY HALL, 389 CONGRESS STREET 207.874.8719
 STATUS
 PRELIMINARY SUBMISSION 09.19.08
 PRELIMINARY RESUBMISSION 11.15.08
- BUILDING PERMIT**
 CITY OF PORTLAND CODE ENFORCEMENT OFFICE
 CITY HALL, 389 CONGRESS STREET 207.874.8693
 TO BE FILED PRIOR TO CONSTRUCTION
- STREET OPENING PERMIT**
 CITY OF PORTLAND PUBLIC WORKS ENFORCEMENT
 ENGINEERING DEPARTMENT
 55 PORTLAND STREET 207.874.8801
 TO BE FILED PRIOR TO CONSTRUCTION

PREPARED BY

CIVIL ENGINEER & LANDSCAPE ARCHITECT:
DeLuca-Hoffman Associates, Inc.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, MAINE 04106
 207.775.1121

SURVEYOR:
Owen Haskell, Inc.
 16 CASCO STREET
 PORTLAND, MAINE 04101
 207.774.0424

GEOTECHNICAL ENGINEER:
S.W. Cole Engineering
 17 CHESTNUT STREET
 PORTLAND, MAINE 04101
 207.773.6800
 207.773.6801 FAX
 ATTN: TIM BOYCE

ARCHITECT:
Winton Scott Architects
 5 MILK STREET
 PORTLAND, MAINE 04101
 207.774.4811
 207.774.3083 FAX
 ATTN: MARK WILCOX

STRUCTURAL ENGINEER:
Becker Structural Engineers
 P.O. BOX 4595
 PORTLAND, MAINE 04112
 207.879.1838
 ATTN: PAUL BECKER

ELECTRICAL ENGINEER:
Bartlett Design
 942 WASHINGTON STREET
 BATH, MAINE 04530
 207.443.5447
 ATTN: LARRY BARTLETT

MECHANICAL ENGINEER:
Mechanical Systems Engineers
 10 FOREST FALLS DRIVE #10
 YARMOUTH, ME 04096
 207.846.1441
 ATTN: ERIC PFLUGRADT

I HEREBY ACKNOWLEDGE THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MAINE AND THAT I AM COMPETENT TO PREPARE THIS DOCUMENT.

			PROJECT CRESCENT HEIGHTS	DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM
SHEET TITLE COVER SHEET			DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: AS NOTED CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-COV SHEET C-1	
5 01.15.09 FINAL PLAN SUBMISSION TO CITY OF PORTLAND 4 12.19.08 RESUBMISSION TO CITY OF PORTLAND 3 11.18.08 SUBMITTED TO CITY OF PORTLAND 2 09.24.08 REFILED SUBMISSION TO CITY OF PORTLAND 1 09.19.08 30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	REV DATE DESCRIPTION REVISIONS	P.E. STEPHEN BUSHEY LIC. #7429	CLIENT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	

GENERAL NOTES:

- 1. THIS PROJECT IS SUBJECT TO THE TERMS AND CONDITIONS OF ALL REGULATIONS ADMINISTERED BY THE LOCAL UTILITY COMPANIES AND THE CITY OF PORTLAND.
2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF THE ENTRANCES, EXITS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE POINTS.
3. ALL REQUIRED AND NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL SERVICE CONNECTIONS.
4. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE (1-888-DIGSAFE). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
5. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER.
6. ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
7. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO PROJECT CONTRACT SPECIFICATIONS, AND THE CITY OF PORTLAND TECHNICAL STANDARDS, WHICHEVER IS MORE STRINGENT.
8. TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION WAS PROVIDED BY OWEN HASKELL, INC. IN JUNE 2008. BENCHMARK IS LOCATED AT CORNER OF BRAMHALL AND HILL STREETS AS SHOWN IN LOCATION MAP OF BOUNDARY SURVEY.
9. FEMA MAP COMMUNITY PANEL NUMBER 2300510013B. THE SITE IS LOCATED IN C ZONE.
10. THE PROPERTY SHOWN ON THIS PLAN MAY BE DEVELOPED AND USED ONLY AS DEPICTED IN THIS APPROVED PLAN. ALL ELEMENTS AND FEATURES OF THE PLAN AND ALL THE PROPERTY WHICH APPEARS IN THE RECORD OF THE PLANNING BOARD PROCEEDINGS ARE CONDITIONS OF THE APPROVAL. NO CHANGE FROM THE CONDITIONS OF APPROVALS IS PERMITTED UNLESS AN AMENDED PLAN IS FIRST SUBMITTED TO AND APPROVED BY THE PLANNING AUTHORITY.
11. ALL SIGNAGE SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. ALL CURB SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS NOTED ON THE PLANS. GRANITE AND BITUMINOUS CONCRETE CURB SHALL MEET THE REQUIREMENTS OF MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS 609.03 AND 609.04 AND CITY OF PORTLAND TECHNICAL STANDARDS.
13. ALL DIMENSIONING UNLESS OTHERWISE NOTED IS TO THE FACE OF CURB OR FACE OF BUILDING.
14. THE FACILITY IS SERVICED BY PUBLIC WATER, SEWER, NATURAL GAS AND UNDERGROUND POWER.
15. THE CONTRACTOR OR DEVELOPER IS REQUIRED TO NOTIFY THE CITY OF PORTLAND PUBLIC WORKS INSPECTION SERVICES DIVISION (874-8300 EXT. 8838), CODE ENFORCEMENT OFFICE AND DEVELOPMENT REVIEW COORDINATOR IN WRITING THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. A PRECONSTRUCTION MEETING MAY BE REQUIRED TO INCLUDE THE PUBLIC WORKS AUTHORITY OR DEVELOPMENT REVIEW COORDINATOR.
16. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE. THE DEVELOPER, OR AN AUTHORIZED AGENT, MUST BE AVAILABLE AT ALL TIMES DURING CONSTRUCTION.
17. WARNING SIGNS, MARKERS, BARRICADES OR FLAGMEN MUST BE EMPLOYED ON ADJACENT STREETS AS NECESSARY.
18. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED AND DISPOSED OF IN ACCORDANCE WITH THE CITY OF PORTLAND'S SOLID WASTE ORDINANCE CHAPTER 12. ALL DEMOLITION MATERIAL FROM THE PROJECT SITES SHALL BE TAKEN TO THE RIVERSIDE RECYCLING FACILITY OR AS OTHERWISE DIRECTED PENDING THE RESULTS OF A HAZARDOUS BUILDING MATERIALS SURVEY AS AUTHORIZED AND COORDINATED BY THE OWNER. ALL SALVAGED MATERIAL (SIDEWALKS, BRICKS, GRANITE CURB) NOT REUSED SHALL BE DISPOSED OF AS DIRECTED BY PORTLAND DEPT. OF PUBLIC WORKS AT NO EXTRA COST TO THE OWNER.
19. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR AT THEIR EXPENSE.
20. PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED AT ALL TIMES DURING CONSTRUCTION TO INSURE INTEGRITY. IF DISTURBED THEY SHALL BE REPLACED BY A SURVEYOR REGISTERED IN THE STATE OF MAINE AT THE CONTRACTOR/DEVELOPER'S EXPENSE.
21. THE OWNER SHALL BE RESPONSIBLE TO COORDINATE THE PERFORMANCE OF A HAZARDOUS MATERIALS INSPECTION OF THE EXISTING PROPERTIES.
22. A STREET OPENING PERMIT MUST BE OBTAINED FROM THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED IN CONFORMANCE TO THE CITY'S RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS.
23. CONTRACTOR MUST MAINTAIN THROUGH TRAFFIC ON CRESCENT AND WESCOTT STREETS AT ALL TIMES.
24. ALL METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS IDENTIFIED HEREIN SHALL CONFORM TO THE CITY OF PORTLAND CONSTRUCTION AND TECHNICAL STANDARDS AND SPECIFICATIONS AND/OR CURRENT MDT STANDARDS AND SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
25. SITE WORK FOR BUILDING SHALL INCLUDE GRADING THE BUILDING PAD AREA (DEFINED AS THE BUILDING FOOTPRINT PLUS 5'-0" BEYOND THE EXTERIOR WALL) TO A GRADE 18" BELOW THE GROUND FLOOR FINISH ELEVATION. ALL WORK SHALL INCLUDE EXCAVATION (INCLUDING ROCK REMOVAL AND EXISTING FOUNDATION DEMOLITION) AND BACKFILL OF ALL FOOTINGS AND FOUNDATIONS, INSTALLATION OF PERIMETER FOUNDATION DRAINS, EXCAVATION AND BACKFILL OF ALL UNDERSLAB UTILITIES AND PLACEMENT OF ALL AGGREGATES BELOW THE FLOOR SLAB AND ADJACENT THE FOUNDATION WALLS IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS.
26. RECORD DRAWINGS REQUIRE ALL BURIED UTILITIES INCLUDING, BUT NOT LIMITED TO, BENDS, APPURTENANCES, AND OTHER FEATURES TO BE LOCATED BY COORDINATE INFORMATION TO BE RECORDED BY THE CONTRACTOR AND SUPPLIED TO THE OWNER AT THE END OF THE PROJECT.

ZONING SUMMARY
ZONING: RESIDENTIAL - 6
PERMITTED USES:
RESIDENTIAL:
- SINGLE-FAMILY, TWO-FAMILY AND MULTI-FAMILY DWELLING UNIT
- HANDICAPPED FAMILY UNIT
- SINGLE-FAMILY, SINGLE-FAMILY AND MULTIPLE FAMILY COMPONENT MANUFACTURED HOUSING
OTHER:
- LODGING HOUSE
- CEMETERIES
- PARKS AND NON-COMMERCIAL RECREATION SPACE
- ACCESSORY USES INCIDENTAL TO PRINCIPLE USES
- HOME OCCUPATION
- MUNICIPAL USES
- SPECIAL NEEDS INDEPENDENT LIVING UNITS
- CONVERSION TO BED AND BREAKFAST (UP TO 4 BEDROOM)
DIMENSIONAL STANDARD REQUIRED DIMENSION PROVIDED DIMENSION
MINIMUM LOT SIZE 4,500 SF 13,528.8 SF
MINIMUM AREA PER ROOMING UNIT 250 SF 24 BEDS @ 250 SF = 11,000 SF
MINIMUM STREET FRONTAGE 40 FEET 133.07 FEET
MINIMUM FRONT YARD 10 FEET OR THE AVERAGE DEPTH OF THE FRONT YARDS ON EITHER SIDE 3 FEET
MINIMUM REAR YARD 20 FEET 24 FEET
MINIMUM SIDE YARD 4 STORY - 12 FEET, 5 STORY - 15 FEET THE WIDTH OF ONE SIDE YARD MAY BE REDUCED 1 FT. FOR EVERY FOOT THAT THE OTHER SIDE IS CORRESPONDINGLY INCREASED, BUT NO SIDE YARD SHALL BE LESS THAN 10 FEET. 12 FEET
MAXIMUM LOT COVERAGE 40% FOR LOTS CONTAINING 20 OR MORE UNITS; 50% FOR LOTS CONTAINING FEWER THAN 20 UNITS. 36.29%
MINIMUM LOT WIDTH 50 FEET 74 FEET
MAXIMUM STRUCTURE HEIGHT 45 FEET 45 FEET *
OPEN SPACE RATIO 20% FOR LOTS CONTAINING FEWER THAN 20 UNITS AND 30% FOR LOTS CONTAINING 20 UNITS OR GREATER. 48.70%

BUILDING SUMMARY
FOOTPRINT: 4908 SF
TOTAL: 19,163 SF
BEDS: 44
UNITS: 11
STORIES: 4

GRADING & DRAINAGE NOTES:

- 1. ALL STORM DRAIN PIPE SHALL BE SMOOTH BORE INTERIOR PROVIDING A MANNINGS ROUGHNESS COEFFICIENT OF n = 0.013 OR LESS. UNLESS A SMOOTH PIPE MATERIAL IS CALLED FOR ON THE CONTRACT DRAWINGS, CPP AND PVC PIPING SHALL NOT BE USED IN AREAS OF EXPOSED SUNLIGHT.
2. SLOPE PROTECTION IS TO BE PROVIDED PER THE DESIGN PLANS AND MAY INCLUDE RRPRAP, SOD OR MULCH.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EARTHWORK OPERATIONS TO INSURE THAT DISTURBANCE TO THE STEEP SLOPE AREAS ARE MINIMIZED TO THE EXTENT PRACTICABLE. THE LIMITS OF CLEARING SHALL BE 1' BEYOND THE GRADING LIMITS AS SHOWN ON THE SITE LAYOUT PLAN AND AS WELL AS ON THIS PLAN SHEET.
4. THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-DIGSAFE) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.
5. ALL PAVING WITHIN THE PUBLIC R.O.W. SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC R.O.W.
6. NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.
7. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
8. CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES AND PHYSICAL FEATURES THAT ARE OUTSIDE THE SCOPE OF WORK. THE CONTRACTOR SHALL MAINTAIN SITE STABILITY DURING CONSTRUCTION TO AVOID EROSION AND SEDIMENT TRANSPORT. CONTRACTOR SHALL RESTORE ALL AREAS TO A FINAL STABILIZED CONDITION AS DIRECTED BY DESIGN DRAWINGS.
9. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
10. EXTERIOR GRADES AROUND PROPOSED STRUCTURE SHALL BE COORDINATED WITH FINAL BUILDING PLANS AND PROVIDE FOR ALL ACCESS OPENINGS.
11. SUBGRADE FILL PLACED BENEATH ALL PERMANENT PAVEMENT, SIDEWALK OR CONCRETE SURFACES EXCLUDING ANY BUILDING AREAS, SHALL BE GRANULAR BORROW. SUBGRADE FILL PLACED BENEATH ALL LANDSCAPE AREAS EXCEPT THOSE ADJACENT THE FOUNDATION SYSTEMS WILL BE A COMMON BORROW MATERIAL SUITABLE FOR EMBANKMENT CONSTRUCTION. FREE FROM FROZEN MATERIAL, PERISHABLE RUBBLE, PEAT, ORGANICS, ROCKS LARGER THAN 12" IN DIAMETER, VEGETATION AND OTHER MATERIAL UNSUITABLE FOR ROADWAY AND SUBGRADE CONSTRUCTION. EXCAVATED ON-SITE MATERIALS MAY BE USED FOR FILL PROVIDED THE MATERIAL IS FREE FROM UNSUITABLE MATERIAL DESCRIBED IN THIS NOTE AND UPON APPROVAL OF THE ENGINEER. EXCAVATED ON-SITE MATERIALS MAY NOT BE USED AS COMPACTED STRUCTURAL FILL BENEATH THE BUILDING AREAS OR AS FOUNDATION BACKFILL. GRANULAR BORROW AND COMMON BORROW SHALL COMPLY WITH THE MDT SPECIFICATIONS.
12. ALL FILLS SHALL BE PLACED IN LAYERS NOT MORE THAN 12" LOOSE DEPTH AND COMPACTED BY HEAVY COMPACTION EQUIPMENT. MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ASTM 1557, MODIFIED AND FIELD DENSITY ASTM D2922 (NUCLEAR METHODS).

EROSION CONTROL NOTES:

- 1. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
2. PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND THE STABILIZED CONSTRUCTION DISTURBANCES.
3. SILT BARRIERS SHALL BE INSPECTED, REPAIRED AND CLEANED AS NOTED IN THE EROSION CONTROL NOTES SHOWN ON THE EROSION CONTROL DETAIL SHEET.
4. THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCES AS THEY BECOME SATURATED WITH MUD TO ENSURE THAT THEY WORK AS PLANNED DURING CONSTRUCTION AND SHALL KEEP CRESCENT STREET CLEAR OF DIRT AND MUD.
5. SILT REMOVED FROM AROUND INLETS AND BEHIND THE SILT FENCES SHALL BE PLACED ON A TOPSOIL STOCKPILE AND MIXED INTO IT FOR LATER USE IN LANDSCAPING OPERATIONS.
6. CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST THREE (3) BUT NOT MORE THAN (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 M.R.S.A 3360-A.
7. IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AS SPECIFIED ON PLANS.
8. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PUBLISHED BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 1991 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.

UTILITY NOTES:

- 1. ALL REQUIRED UTILITIES SERVING THE PROJECT SHALL BE COORDINATED BETWEEN THE SITE WORK CONTRACTOR AND DIVISION 15/16 CONTRACTOR(S). THE SITE WORK CONTRACTOR SHALL BE RESPONSIBLE TO EXTEND ALL PROPOSED UTILITIES TO WITHIN FIVE (5) FEET OF THE BUILDING TO A LOCATION COORDINATED WITH THE MECHANICAL AND ELECTRICAL SUBCONTRACTORS. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES WITHIN FIVE (5) FEET AND INSIDE THE BUILDING OR UNDER SLAB.
2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF AND/OR RELOCATION OF OVERHEAD AND UNDERGROUND TELEPHONE WITH FAIRPOINT COMMUNICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUITS, PULL WIRES, TRENCHING AND BACKFILLING NECESSARY TO COMPLETE THE WORK.
3. ALL SANITARY SEWER WORK SHALL MEET THE STANDARDS OF THE MAINE STATE PLUMBING CODE AND CITY OF PORTLAND PUBLIC SERVICES DIVISION.
4. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRIC SERVICE WITH CENTRAL MAINE POWER; THE TELECOMMUNICATIONS SERVICE WITH FAIRPOINT COMMUNICATIONS AND CABLE SERVICE WITH TIME WARNER CABLE. ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS OR UTILITY COMPANY STANDARDS, WHICHEVER IS MORE STRINGENT.
5. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
7. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL, AT NO EXTRA EXPENSE TO THE OWNER.
9. A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18 INCH OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER AND SANITARY SEWER CROSSINGS.
10. THE CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION AND PROVIDE TEMPORARY SERVICES AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO THE JOBSITE. TEMPORARY SERVICES SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. COORDINATE ALL TEMPORARY SERVICES WITH UTILITY COMPANY, OWNER AND AFFECTED BUSINESSES.
11. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL SERVICES IN CONDUIT TO SITE LIGHTING, COMPLYING WITH APPLICABLE CODES. COORDINATE WITH OWNER AND ARCHITECTURAL AND CMP PLANS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONFORM WITH CMP, CABLE AND TELEPHONE COMPANIES INDIVIDUAL UTILITY REQUIREMENTS FOR INSTALLATION AND LOCATIONS OF UTILITIES.
12. ALL SANITARY SERVICES AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT. ALL SANITARY SERVICES AND APPURTENANCES TO BE ABANDONED SHALL BE PROPERLY RECORDED WITH PORTLAND PUBLIC WORKS ENGINEERING DEPARTMENT. A DIGITAL VIDEOTAPE SHALL BE MADE OF SANITARY SEWER SYSTEMS TO BE UTILIZED PRIOR TO CONSTRUCTION; UPSTREAM PIPES INTENDED FOR ABANDONMENT SHALL BE INSPECTED TO VERIFY THAT THEY NO LONGER SERVE OTHER FACILITIES.

SITE & SUBGRADE PREPARATION NOTES

EXCERPT FROM GEOTECHNICAL REPORT 08-0744 DATED OCTOBER 24, 2008 PREPARED BY S.W. COLE ENGINEERING, INC.

NOTEWELL: ALL FOUNDATION PREPARATION SHALL BE COORDINATED WITH THE STRUCTURAL DESIGN PLANS PREPARED BY BECKER STRUCTURAL ENGINEERS.
SITE PREPARATION SHOULD BEGIN WITH THE CONSTRUCTION OF AN EROSION CONTROL SYSTEM TO PROTECT ADJACENT DRAINAGE WAYS AND AREAS OUTSIDE THE CONSTRUCTION LIMITS. PROPOSED CONSTRUCTION AREAS SHOULD BE CLEARED AND GRUBBED OF ALL ORGANIC MATTER AND TOPSOIL. AS MUCH VEGETATION AS POSSIBLE SHOULD REMAIN OVER INACTIVE AREAS OF CONSTRUCTION TO LESSEN THE POTENTIAL FOR EROSION AND SITE DISTURBANCE. WE RECOMMEND THAT EXISTING FOUNDATIONS, SLABS AND BURIED UTILITIES BENEATH THE PROPOSED BUILDING FOOTING PRINT BE COMPLETELY REMOVED AND BACKFILLED WITH COMPACTED STRUCTURAL BACKFILL.

TERRACE AREA OF BUILDING PAD:
BASED ON THE SUBSURFACE FINDINGS AND OUR UNDERSTANDING OF THE PROPOSED CONSTRUCTION, WE ANTICIPATE THAT FOOTINGS ON THE UPPER TERRACE OF THE SITE, GENERALLY WITHIN THE FOOTPRINT OF THE EXISTING BUILDINGS, WILL ENCOUNTER MEDIUM DENSE TO DENSE GLACIAL TILL SOILS OR COMPACTED STRUCTURAL BACKFILL. FOR FOOTINGS IN THIS AREA, WE RECOMMEND THAT EXCAVATION BE COMPLETED WITH A SMOOTH-EDGED BUCKET AND SUBGRADES BE PROTECTED WITH 6 INCHES OF CRUSHED STONE PLACED OVER WOVEN GEOTEXTILE FABRIC SUCH AS MIRAFI 500X.

SLOPING AREA OF BUILDING PAD:
BASED ON THE SUBSURFACE FINDINGS AND OUR UNDERSTANDING OF THE PROPOSED CONSTRUCTION, WE ANTICIPATE THAT FOOTINGS ON THE SLOPING PORTION OF THE SITE WILL ENCOUNTER SURFICIAL FILLS THAT ARE UNSUITABLE FOR DIRECT FOUNDATION SUPPORT. FOR FOOTING SUBGRADES IN THE SLOPE AREA OF THE BUILDING PAD, WE RECOMMEND REMOVING THE EXISTING FILLS DOWN THE DENSE GLACIAL TILL AND BACKFILLING WITH COMPACTED STRUCTURAL FILL. REMOVING AND BACKFILLING THE UNSUITABLE SOILS WILL REQUIRE DISPLACING SOIL FROM THE SITE AND IMPORTING SUITABLE STRUCTURAL FILL. THE LIMITS OF EXCAVATION FOR UNSUITABLE FILL REMOVAL SHOULD EXTEND 1 FOOT LATERALLY OUTWARD FROM THE BUILDING FOOTPRINT FOR EACH FOOT OF EXCAVATION DEPTH, UNLESS FOOTINGS ARE FOUNDED AT THE ELEVATION OF DENSE GLACIAL TILL.

FOUNDATION DRAINAGE:
WE RECOMMEND THAT FOUNDATION UNDERDRAINS BE PROVIDED AROUND THE EXTERIOR OF PERIMETER FOUNDATIONS AS WELL AS BELOW INTERIOR PORTIONS OF BASEMENT SLABS ON THE UPSLOPE SIDE OF THE PROPOSED BUILDING. THE UNDERDRAINS MAY CONSIST OF 4-INCH DIAMETER HDPE SLOTTED UNDERDRAIN PIPE WITH FILTER SOCK ENVELOPED IN AT LEAST 6 INCHES OF UNDERDRAIN SAND AND BACKFILL WITH FREE-DRAINING SAND AND GRAVEL MEETING THE REQUIREMENTS OF STRUCTURAL FILL AS GIVEN HEREIN. THE UNDERDRAINS SHOULD BE INSTALLED AT FOOTING SUBGRADE ELEVATION AND ROUTED TO A POSITIVE GRAVITY OUTLET. ROOF DRAINS MUST BE ROUTED IN SEPARATE TIGHT-LINE PIPES.

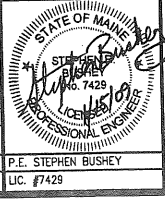
ENTRANCE SLABS AND SIDEWALKS:
CLEAR, NON-FROST SUSCEPTIBLE SAND AND GRAVEL MEETING THE REQUIREMENTS OF STRUCTURAL FILL SHALL BE PROVIDED TO A DEPTH OF AT LEAST 4.5 FEET BELOW THE TOP OF ENTRANCE SLABS. THIS THICKNESS OF STRUCTURAL FILL SHOULD EXTEND THE FULL WIDTH OF THE ENTRANCE SLABS AND OUTWARD AT LEAST 4.5 FEET, THEREAFTER TRANSITIONING UP TO BOTTOM ADJACENT SIDEWALK OR PAVEMENT SUBBASE GRAVEL AT A 3H:1V OR FLATTER SLOPE.

ON-GRADE FLOOR SLABS:
ON-GRADE FLOOR SLABS IN HEATED SPACES MAY BE DESIGNED USING A SUBGRADE REACTION MODULUS OF 150 PCI PROVIDED THE SLAB IS UNDERLAIN BY AT LEAST 12 INCHES OF STRUCTURAL FILL OVERLYING A PROPERLY PREPARED SUBGRADE. ALL EXISTING UNSUITABLE FILLS BELOW THE SLAB IN THE SLOPING AREA OF THE SITE SHOULD BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

BACKFILL AND COMPACTION:
BASED ON THE SURFACE FINDINGS, THE EXISTING SURFICIAL FILLS ARE FROST SUSCEPTIBLE AND UNSUITABLE FOR REUSE AS COMPACTED STRUCTURAL FILL BENEATH THE BUILDING AREAS AND AS FOUNDATION BACKFILL.

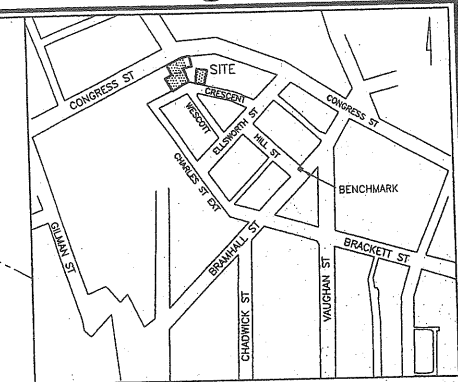
LEGEND
EXISTING PROPOSED
PROPERTY BOUNDARY
5/8" IRON ROD TO BE SET
IRON PIPE FOUND
MONUMENT FOUND
NOW OR FORMERLY
UTILITY POLE
SIGN
EXISTING MANHOLE
CATCH BASIN
GRANITE CURB
WATER VALVE
HYDRANT
LIGHT POLE (UNLESS NOTED)
EXISTING BUILDING
EXISTING CONTOUR
UNDERGROUND TELEPHONE LINE
SEWER LINE
STORM DRAIN LINE
WATER LINE
GAS LINE
EDGE OF PAVEMENT
PVC CLEANOUT
SURVEY CONTROL POINT
TIE BACK
RIPRAP
ORNAMENTAL OR WOOD FENCE
EXISTING TREES
BRICK SIDEWALK

Table with columns: REV, DATE, DESCRIPTION, REVISIONS

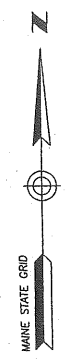
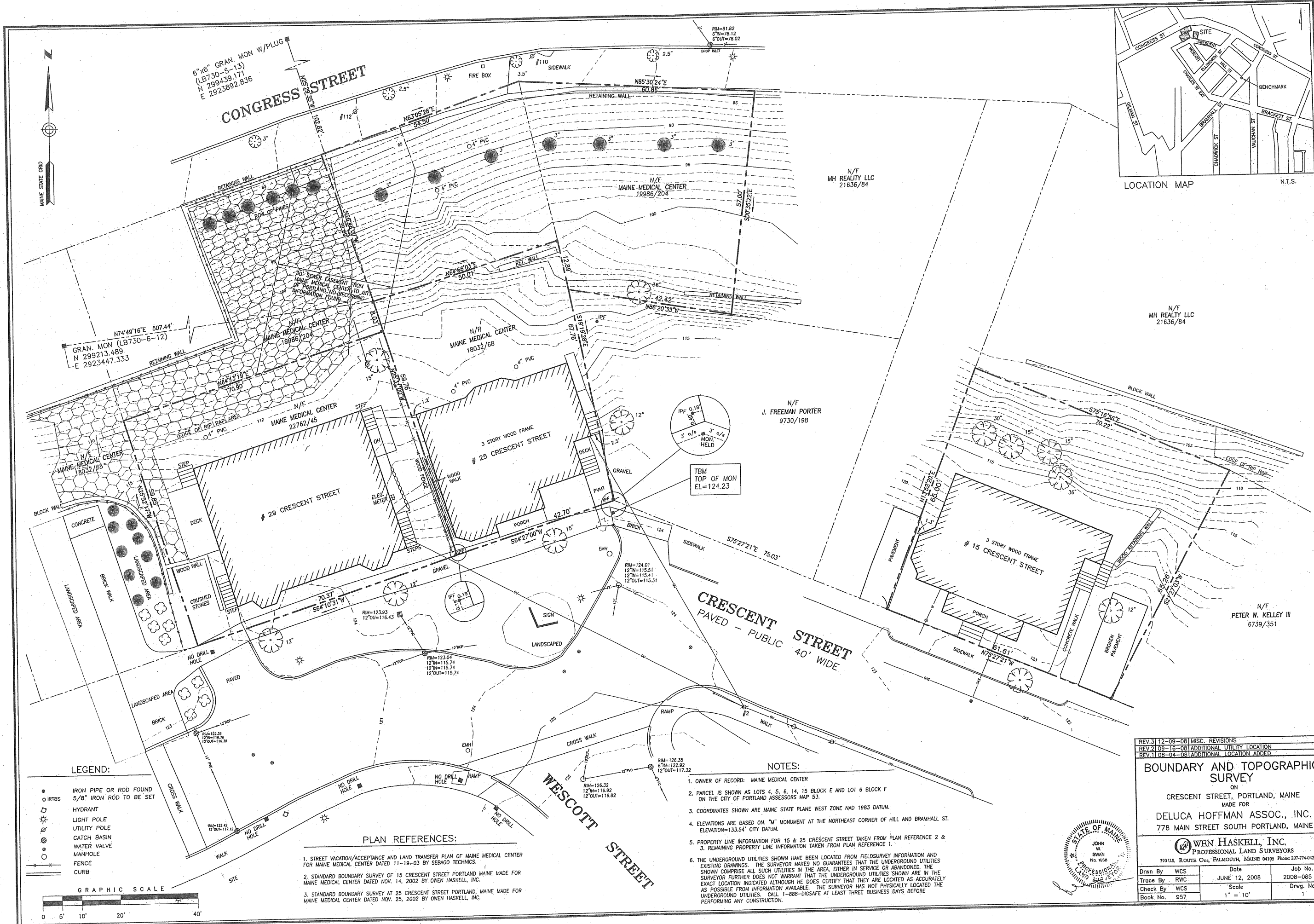


PROJECT: CRESCENT HEIGHTS
SHEET TITLE: GENERAL NOTES AND LEGEND
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1921
WWW.DELUCAHOFFMAN.COM
DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-GEN
SHEET: C-2



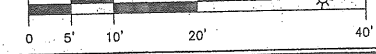
LOCATION MAP N.T.S.



LEGEND:

- IRON PIPE OR ROD FOUND
- IRBTS 5/8" IRON ROD TO BE SET
- ☆ HYDRANT
- ⊙ LIGHT POLE
- ⊙ UTILITY POLE
- ⊙ CATCH BASIN
- ⊙ WATER VALVE
- ⊙ MANHOLE
- ⊙ FENCE
- ⊙ CURB

GRAPHIC SCALE



PLAN REFERENCES:

1. STREET VACATION/ACCEPTANCE AND LAND TRANSFER PLAN OF MAINE MEDICAL CENTER FOR MAINE MEDICAL CENTER DATED 11-19-03 BY SEBAGO TECHNICS.
2. STANDARD BOUNDARY SURVEY OF 15 CRESCENT STREET PORTLAND MAINE MADE FOR MAINE MEDICAL CENTER DATED NOV. 14, 2002 BY OWEN HASKELL, INC.
3. STANDARD BOUNDARY SURVEY AT 25 CRESCENT STREET PORTLAND, MAINE MADE FOR MAINE MEDICAL CENTER DATED NOV. 25, 2002 BY OWEN HASKELL, INC.

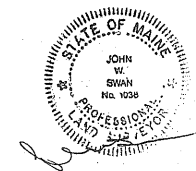
NOTES:

1. OWNER OF RECORD: MAINE MEDICAL CENTER
2. PARCEL IS SHOWN AS LOTS 4, 5, 6, 14, 15 BLOCK E AND LOT 6 BLOCK F ON THE CITY OF PORTLAND ASSESSORS MAP 53.
3. COORDINATES SHOWN ARE MAINE STATE PLANE WEST ZONE NAD 1983 DATUM.
4. ELEVATIONS ARE BASED ON "M" MONUMENT AT THE NORTHEAST CORNER OF HILL AND BRAMHALL ST. ELEVATION=133.54' CITY DATUM.
5. PROPERTY LINE INFORMATION FOR 15 & 25 CRESCENT STREET TAKEN FROM PLAN REFERENCE 2 & 3. REMAINING PROPERTY LINE INFORMATION TAKEN FROM PLAN REFERENCE 1.
6. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELDSURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.

REV. 3/12-09-08 | MISC. REVISIONS
 REV. 2/08-16-08 | ADDITIONAL UTILITY LOCATION
 REV. 1/08-04-08 | ADDITIONAL LOCATION ADDED

BOUNDARY AND TOPOGRAPHIC SURVEY
 ON
 CRESCENT STREET, PORTLAND, MAINE
 MADE FOR
DELUCA HOFFMAN ASSOC., INC.
 778 MAIN STREET SOUTH PORTLAND, MAINE

OWEN HASKELL, INC.
 PROFESSIONAL LAND SURVEYORS
 390 U.S. ROUTE ONE, FALMOUTH, MAINE 04105 Phone: 207-774-0424



Drawn By	WCS	Date	JUNE 12, 2008	Job No.	2008-085 P
Trace By	WCS	Scale	1" = 10'	Drwg. No.	1
Check By	WCS				
Book No.	957				

SEE INSET FOR CONTINUATION

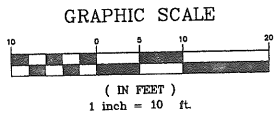
TOTAL SITE AREA
13,525.8 SQ. FT.
(DOES NOT INCLUDE
#15 CRESCENT STREET)

INSET OF EXISTING AT CORNER OF WEYMOUTH AND CONGRESS
SCALE: 1"=20'

PARKING GARAGE

CRESCENT STREET
PAVED - PUBLIC 40' WIDE

WESCOTT STREET



PLAN REFERENCE

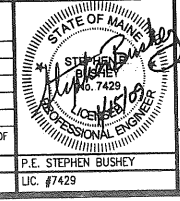
- 1) EXISTING CONDITIONS SURVEY BY OWEN HASKELL INC. DATED JUNE 12, 2008
- 2) UTILITY LOCATIONS TAKEN FROM MAINE MEDICAL CENTER PLAN, DRAWING C301, PREPARED BY TRO DATED 8.31.04, ON FILE WITH THE CITY OF PORTLAND PLANNING AUTHORITY. THE EXISTING CATCH BASIN IN FRONT OF #29 CRESCENT APPEARS TO CONFLICT WITH AN ABANDONED GAS LINE.

NOTES:

- 1) PORTION OF FORMER SANITARY SEWER FROM MAINE MEDICAL CENTER DISCONTINUED AS PART OF PARKING GARAGE PROJECT
- 2) PORTION OF LOT DESCRIBED IN CORD BOOK 19986 / PAGE 204 CONVEYED TO CRESCENT HEIGHTS LLC BY MMC.
- 3) THE EXACT LOCATION OF UNDERGROUND POWER/TELEPHONE/CABLE INTO THE EXISTING BUILDINGS IS UNKNOWN. THE ENGINEER HAS NOT ENTERED THE BUILDINGS TO DETERMINE THIS INFORMATION.
- 4) SANITARY SEWER LOCATION FOR #25 TAKEN FROM CITY SEWER CARD RECORDS
- 5) NO CITY SEWER RECORD AVAILABLE FOR 15 CRESCENT ST. LOCATION OF SEWER LATERAL BASED ON DIMENSIONS PROVIDED BY CITY OF PORTLAND VIDEO INSPECTION LOG REPORT DATED 7.13.99.



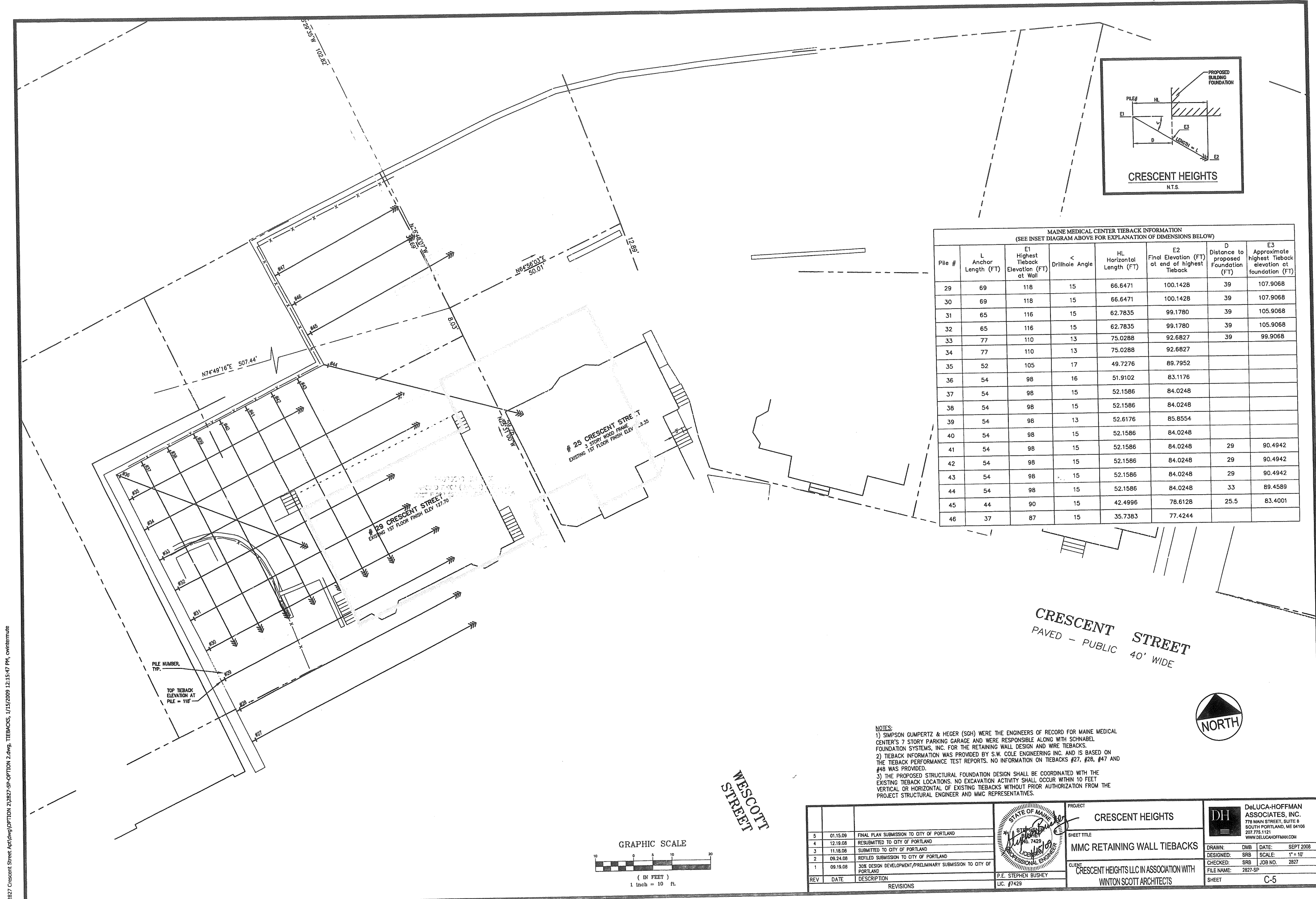
REV	DATE	DESCRIPTION	REVISIONS
6	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
5	12.19.08	RESUBMITTED TO CITY OF PORTLAND	
4	11.18.08	SUBMITTED TO CITY OF PORTLAND	
3	10.21.08	SUBMITTED TO CITY OF PORTLAND	
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT	CRESCENT HEIGHTS
SHEET TITLE	EXISTING CONDITIONS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

<p>DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 6 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM</p>	<p>DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: AS NOTED CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-SP SHEET C-4</p>
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F 3



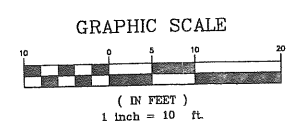
MAINE MEDICAL CENTER TIEBACK INFORMATION
(SEE INSET DIAGRAM ABOVE FOR EXPLANATION OF DIMENSIONS BELOW)

Pile #	L Anchor Length (FT)	E1 Highest Tieback Elevation (FT) at Wall	Drillhole Angle	HL Horizontal (FT)	E2 Final Elevation (FT) at end of highest Tieback	D Distance to proposed Foundation (FT)	E3 Approximate highest Tieback elevation at foundation (FT)
29	69	118	15	66.6471	100.1428	39	107.9068
30	69	118	15	66.6471	100.1428	39	107.9068
31	65	116	15	62.7835	99.1780	39	105.9068
32	65	116	15	62.7835	99.1780	39	105.9068
33	77	110	13	75.0288	92.6827	39	99.9068
34	77	110	13	75.0288	92.6827		
35	52	105	17	49.7276	89.7952		
36	54	98	16	51.9102	83.1176		
37	54	98	15	52.1586	84.0248		
38	54	98	15	52.1586	84.0248		
39	54	98	13	52.6176	85.8554		
40	54	98	15	52.1586	84.0248		
41	54	98	15	52.1586	84.0248	29	90.4942
42	54	98	15	52.1586	84.0248	29	90.4942
43	54	98	15	52.1586	84.0248	29	90.4942
44	54	98	15	52.1586	84.0248	33	89.4589
45	44	90	15	42.4996	78.6128	25.5	83.4001
46	37	87	15	35.7383	77.4244		

CRESCENT STREET
PAVED - PUBLIC 40' WIDE



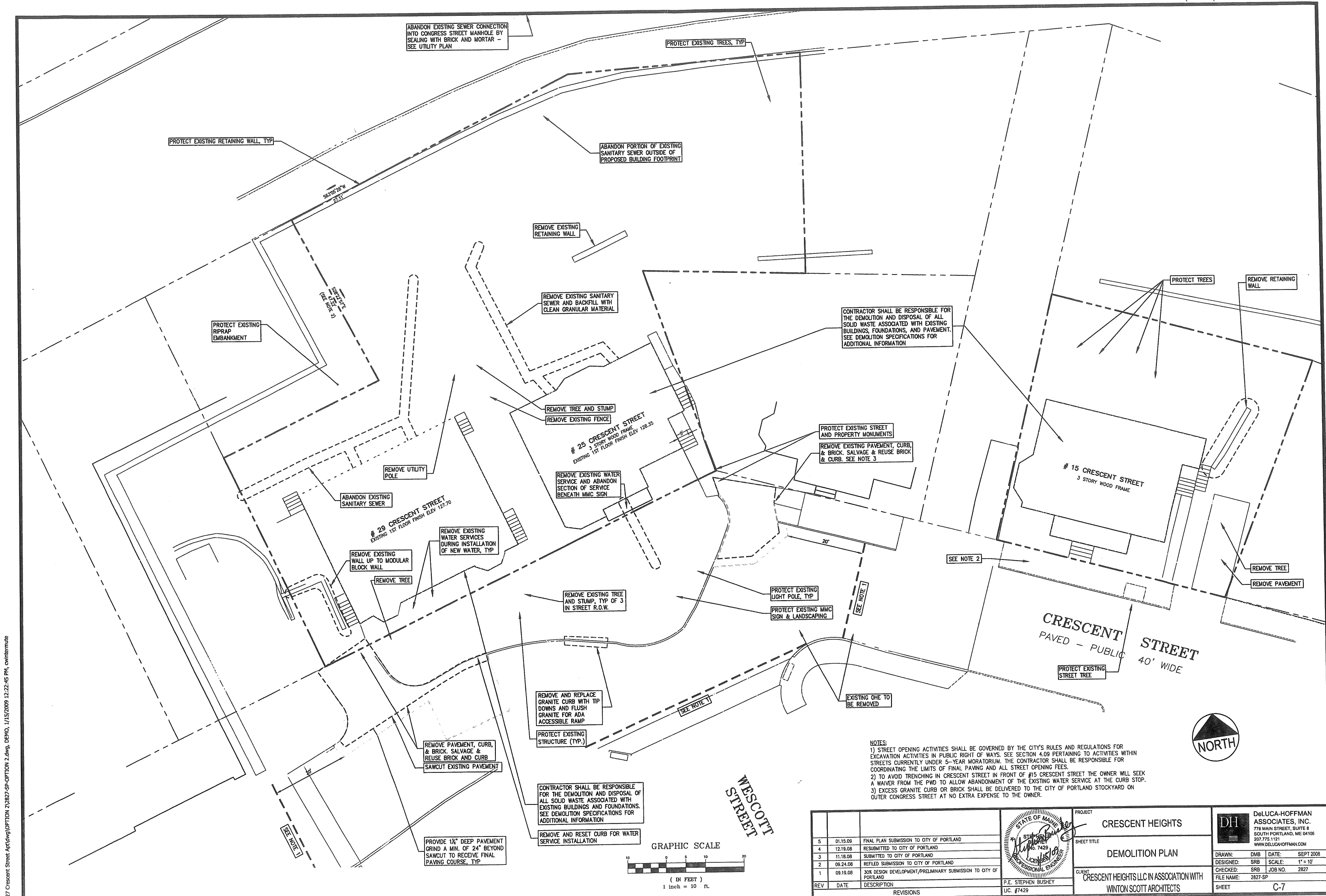
NOTES:
 1) SIMPSON GUMPERTZ & HEGGER (SGH) WERE THE ENGINEERS OF RECORD FOR MAINE MEDICAL CENTER'S 7 STORY PARKING GARAGE AND WERE RESPONSIBLE ALONG WITH SCHNABEL FOUNDATION SYSTEMS, INC. FOR THE RETAINING WALL DESIGN AND WIRE TIEBACKS.
 2) TIEBACK INFORMATION WAS PROVIDED BY S.W. COLE ENGINEERING INC. AND IS BASED ON THE TIEBACK PERFORMANCE TEST REPORTS. NO INFORMATION ON TIEBACKS #27, #28, #47 AND #48 WAS PROVIDED.
 3) THE PROPOSED STRUCTURAL FOUNDATION DESIGN SHALL BE COORDINATED WITH THE EXISTING TIEBACK LOCATIONS. NO EXCAVATION ACTIVITY SHALL OCCUR WITHIN 10 FEET VERTICAL OR HORIZONTAL OF EXISTING TIEBACKS WITHOUT PRIOR AUTHORIZATION FROM THE PROJECT STRUCTURAL ENGINEER AND MMC REPRESENTATIVES.



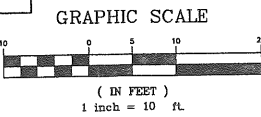
WESCOTT STREET

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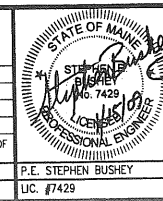
PROJECT CRESCENT HEIGHTS			PROJECT CRESCENT HEIGHTS	DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 6 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM
SHEET TITLE MMC RETAINING WALL TIEBACKS				
REV 5 4 3 2 1	DATE 01.15.09 12.18.08 11.18.08 09.24.08 09.19.08	DESCRIPTION FINAL PLAN SUBMISSION TO CITY OF PORTLAND RESUBMITTED TO CITY OF PORTLAND SUBMITTED TO CITY OF PORTLAND REFILED SUBMISSION TO CITY OF PORTLAND 30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	CLIENT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	



- NOTES:**
- 1) STREET OPENING ACTIVITIES SHALL BE GOVERNED BY THE CITY'S RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. SEE SECTION 4.09 PERTAINING TO ACTIVITIES WITHIN STREETS CURRENTLY UNDER 5-YEAR MORATORIUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LIMITS OF FINAL PAVING AND ALL STREET OPENING FEES.
 - 2) TO AVOID TRENCHING IN CRESCENT STREET IN FRONT OF #15 CRESCENT STREET THE OWNER WILL SEEK A WAIVER FROM THE PWD TO ALLOW ABANDONMENT OF THE EXISTING WATER SERVICE AT THE CURB STOP.
 - 3) EXCESS GRANITE CURB OR BRICK SHALL BE DELIVERED TO THE CITY OF PORTLAND STOCKYARD ON OUTER CONGRESS STREET AT NO EXTRA EXPENSE TO THE OWNER.



REV	DATE	DESCRIPTION
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2	09.24.08	REFLED SUBMISSION TO CITY OF PORTLAND
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT
CRESCENT HEIGHTS

SHEET TITLE
DEMOLITION PLAN

CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

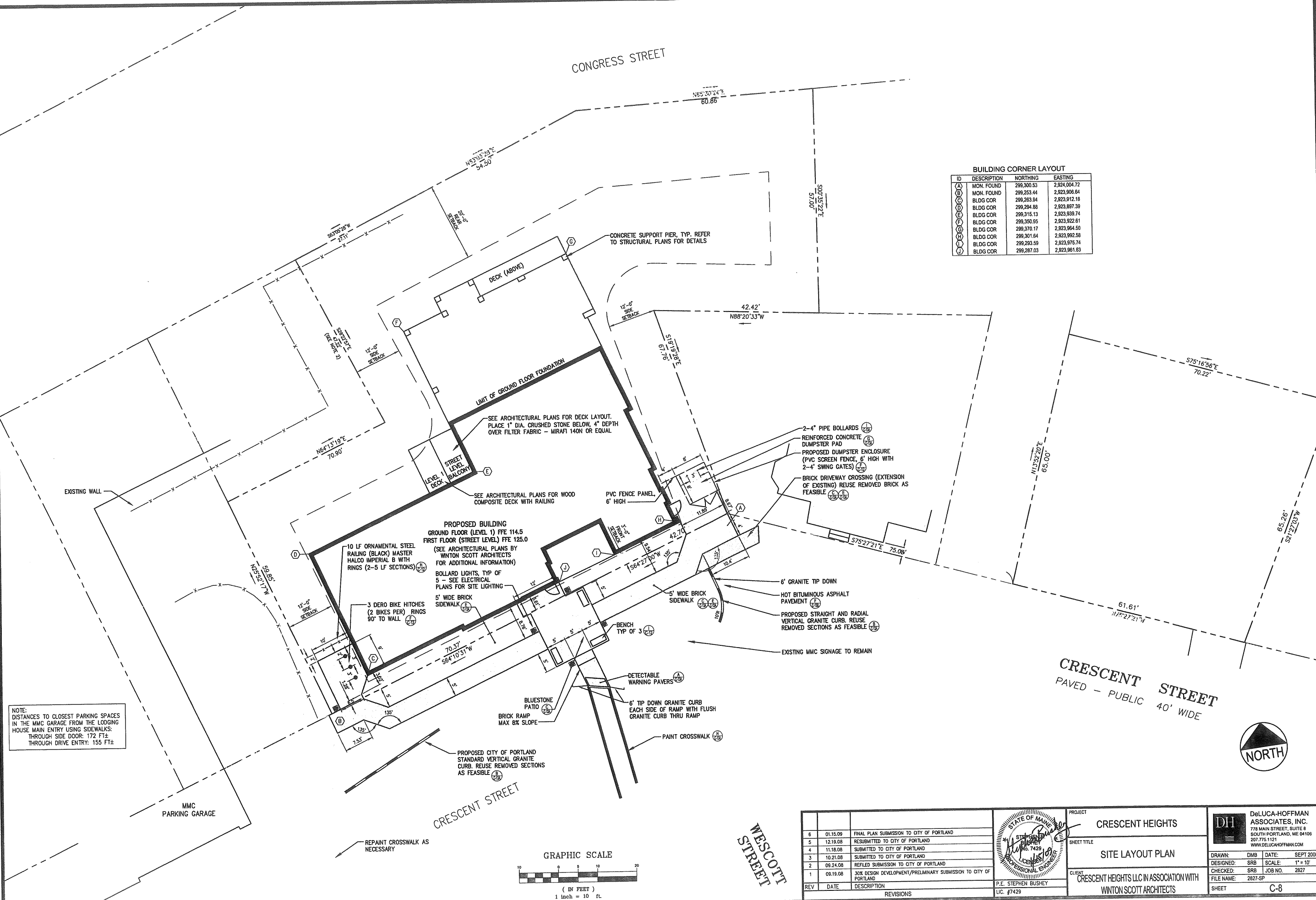
DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 6
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: 1" = 10'
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-SP
SHEET **C-7**

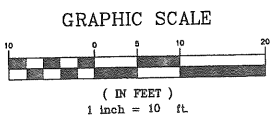
CONGRESS STREET

BUILDING CORNER LAYOUT

ID	DESCRIPTION	NORTHING	EASTING
(A)	MON. FOUND	299,300.53	2,924,004.72
(B)	MON. FOUND	299,253.44	2,923,906.64
(C)	BLDG COR	299,263.94	2,923,912.18
(D)	BLDG COR	299,294.88	2,923,897.39
(E)	BLDG COR	299,315.13	2,923,939.74
(F)	BLDG COR	299,350.95	2,923,922.61
(G)	BLDG COR	299,370.17	2,923,964.50
(H)	BLDG COR	299,301.64	2,923,992.58
(I)	BLDG COR	299,293.59	2,923,975.74
(J)	BLDG COR	299,287.03	2,923,961.83



NOTE:
DISTANCES TO CLOSEST PARKING SPACES
IN THE MMC GARAGE FROM THE LODGING
HOUSE MAIN ENTRY USING SIDEWALKS:
THROUGH SIDE DOOR: 172 FT±
THROUGH DRIVE ENTRY: 155 FT±



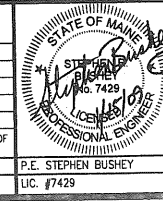
WESCOTT STREET

CRESCENT STREET
PAVED - PUBLIC 40' WIDE



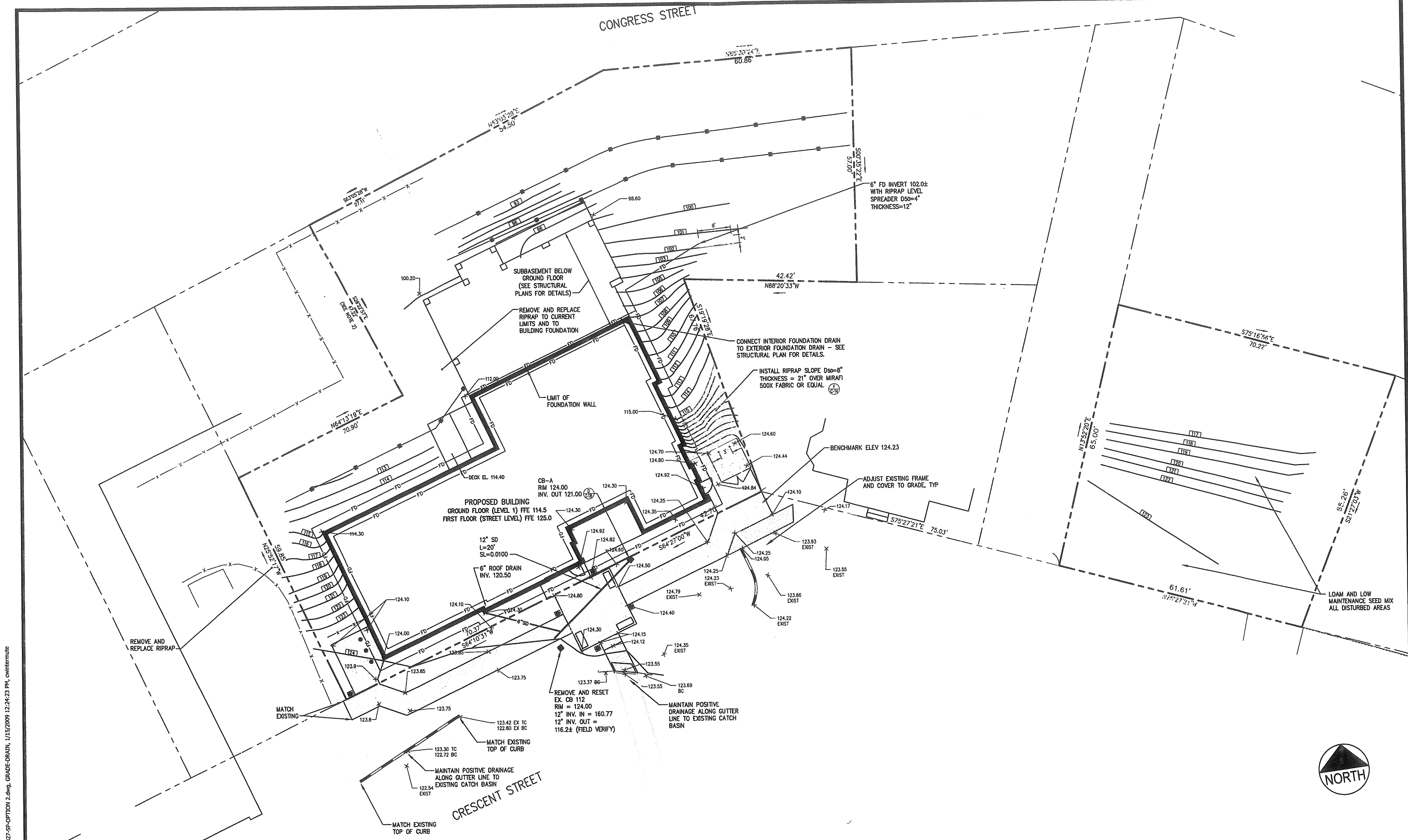
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REV	DATE	DESCRIPTION	REVISIONS
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	

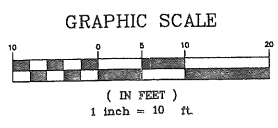


PROJECT	CRESCENT HEIGHTS
SHEET TITLE	SITE LAYOUT PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

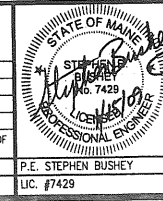
<p>DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 6 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM</p>	<p>DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: 1" = 10' CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-SP SHEET C-8</p>
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REV	DATE	DESCRIPTION
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT	CRESCENT HEIGHTS
SHEET TITLE	GRADING AND DRAINAGE PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC. 776 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELOUCAHOFFMAN.COM	
DRAWN:	DMB DATE: SEPT 2008
DESIGNED:	SRB SCALE: 1" = 10'
CHECKED:	SRB JOB NO. 2827
FILE NAME:	2827-SP
SHEET	C-9

CONGRESS STREET

CONGRESS STREET

CRESCENT STREET

PROVIDE TEST PIT TO VERIFY EXISTING PIPE ALIGNMENT
SMH-A
RIM EL. 98.00
6" INV. IN 90.62
8" INV. OUT ±90.50
REMOVE AND RESET RIPRAP AS NECESSARY

ABANDON SEWER IN ACCORDANCE WITH CITY REQUIREMENTS SEAL AT MAIN, CAP NEAR BUILDING

SEAL SEWER AT MAIN IN ACCORDANCE WITH CITY STANDARDS

APPROXIMATE SEWER SERVICE CONNECTION

6" SAN
L=8'
S=0.0500

SEWER EXIT CONFIRM INVERT WITH MECHANICAL PLANS FOR DETAILS
SUBBASEMENT (SEE STRUCTURAL PLANS FOR DETAILS)

ABANDON EXISTING SEWER UPSTREAM OF SMH A AND REMOVE PIPE IN CONFLICT WITH BUILDING FOUNDATION, TYP

ELECTRIC METER AND SWITCH (SEE ELECTRICAL PLANS FOR DETAILS)

EXISTING GAS SERVICE TO BE CLOSED (CUT)

FIELD VERIFY GAS SERVICE POINT OF CONNECTION

COORDINATE GAS REGULATOR LOCATION AND PROVIDE PROTECTION MEASURES AS NECESSARY

PROPOSED BUILDING GROUND FLOOR (LEVEL 1) FFE 114.5
FIRST FLOOR (STREET LEVEL) FFE 125.0
SEE ELECTRICAL PLANS FOR SITE LIGHTING CIRCUITING, TYP

PROPOSED WATER SERVICE ENTRY CONFIRM WATER ENTRANCE ELEVATING W/ MECH/PLUMBING PLANS
PROVIDE CURB STOP

EXISTING GAS SERVICE CLOSED (CUT)

ABANDONED

ABANDON EXISTING WATER SERVICE - SEE NOTE 1

ABANDON EXISTING SEWER - SEAL AT MAIN AND CAP OUTSIDE OF RIGHT OF WAY - SEE NOTE 2

REMOVE AND RESET CURB AS REQUIRED

(SEE SITE ELECTRICAL PLANS FOR DETAILS)

NEW PAVEMENT
OLD PAVEMENT

INSTALL 3-PHASE TRANSFORMER ON POLE - SEE NOTES

REPAIR DISTURBED BRICK WALK, CURB, PAVEMENT

EXISTING FIRE HYDRANT

ABANDON EXISTING WATER PER PWD REQUIREMENTS

REMOVE AND RESET CURB

TEST PIT

NEW WATER SERVICES TO GO UNDER STORM DRAIN

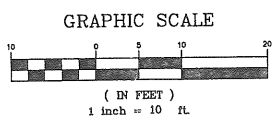
INSTALL 6"x12" TAPPING SLEEVE AND GATE VALVE

INSTALL 2" CORPORATION AND 2" CURB STOP

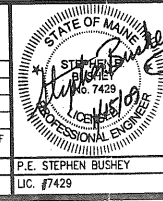
PROTECT EXISTING UGE-SECONDARY LINES IF ENCOUNTERED - REPLACE IF NECESSARY AT NO EXTRA EXPENSE TO THE OWNER

EXISTING FIRE HYDRANT

NOTES:
1) EXISTING WATER SERVICE(S) SHALL BE ABANDONED IN ACCORDANCE WITH THE PWD REQUIREMENTS AT NO EXTRA COST TO THE OWNER.
2) ALL EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY SHALL BE GOVERNED BY THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. ALL FEES AND PAVEMENT RESTORATION REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO EXTRA COST TO THE OWNER.
3) VERIFY AND COORDINATE ALL SITE ELECTRICAL WITH PLANS PREPARED BY BARTLETT DESIGN.

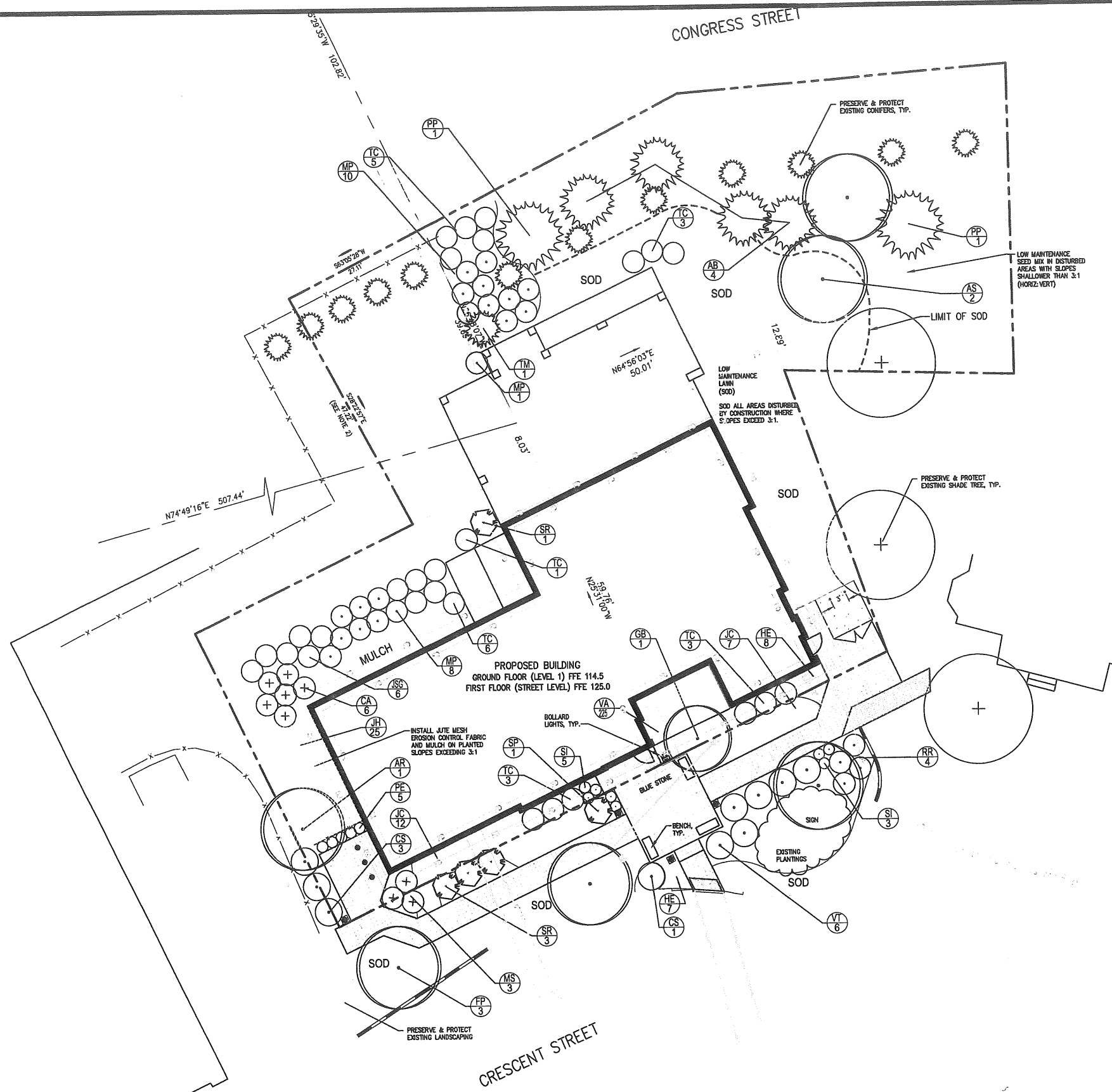


REV	DATE	DESCRIPTION
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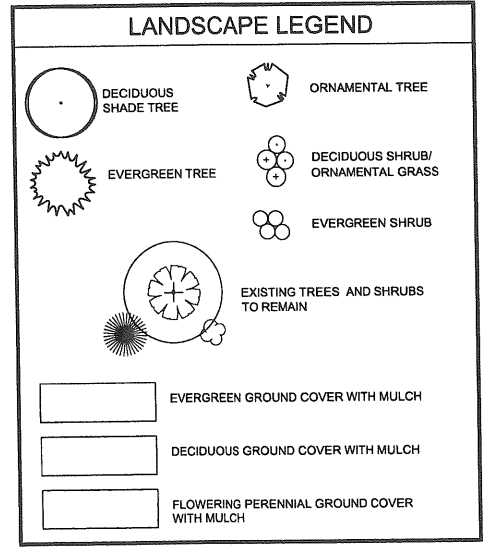
PROJECT	CRESCENT HEIGHTS
SHEET TITLE	UTILITY PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM	DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: 1" = 10' CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-SP SHEET C-10
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PLANT LIST						
KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	SPACING	REMARKS
TREES						
AB	4	Abies balsamea Balsam Fir	6-7' ht.	B&B		
AR	1	Acer rubrum 'Autumn Flame' Autumn Flame Red Maple	2 1/2-3" cal.	B&B		
AS	2	Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	2 1/2-3" cal.	B&B		
FP	3	Fraxinus pennsylvanica 'Summit' Summit Ash	2 1/2-3" cal.	B&B		
GB	1	Ginkgo biloba Ginkgo Tree	2" cal.	B&B		
PP	2	Picea pungens 'Glauca' Colorado Blue Spruce	6-7' ht.	B&B		
TM	1	Taxus X media 'Hicksii' Hick's Yew	24-30" ht	B&B		
SHRUBS & ORNAMENTAL GRASSES						
CA	6	Calamagrostis acutifolia 'Karl Foerster' Karl Foerster Feather Reed Grass	full	3 gal.	4'oc	
CS	4	Cornus sericea 'Isanti' Isanti Red Twig Dogwood	24-30" ht	5 gal/B&B	5'oc	
JSG	6	Juniperus chinensis 'Sea Green' Sea Green Juniper	18-24" spr.	3 gal/B&B	4'oc	
MP	18	Myrica pensylvanica Bayberry	18-24" ht	3 gal/B&B	4'oc	
MS	3	Miscanthus sinensis 'Graziella' Silver Grass	full	3 gal.	4'oc	
RR	4	Rosa rugosa Rugosa Rose, pink	18-24" ht.	3 gal.	4'oc	
SP	1	Syringa patula 'Miss Kim' Miss Kim Lilac	30-36" ht.	B&B		shrub form
SR	4	Syringa x prestoniae 'Donald Wyman' Lilac, deep pink	30-36" ht.	B&B	4'oc	
TC	21	Taxus cuspidata 'Green Wave' Green Wave Yew	18-24" spr.	B&B/3 gal.	4'oc	
VT	6	Viburnum trilobum 'Alfredo' Alfredo American Cranberry Viburnum	24-30" ht.	B&B/3 gal.	5'oc	
GROUNDCOVER & PERENNIALS						
VA	225	Vaccinium angustifolium Low-bush Blueberry sod	sod	sq. ft.		
HE	15	Hemerocallis, mixed Daylily, red, yellow, orange mixed	3-4 ppp	1 gal.	2' oc	similar blade/plant size
JC	19	Juniperus chinensis 'Blue Chip' Blue Chip Juniper	18-24" spr.	3 gal.	4' oc	
*JH	25	Juniperus horizontalis 'Bar Harbor' Creeping Thyme	18-24" spr.	3 gal.	3' oc	on >3:1 slope
PE	5	Perennials, flowering e.g., Echinacea, Gaillardia	full	1 gal.	2' oc	
SI	8	Iris siberica 'Caesar's Brother' Siberian Iris, blue	3-4 ppp	1 gal.	2' oc	blue flower

* ALTERNATE: Low-bush Blueberry sod, 275 S.F.

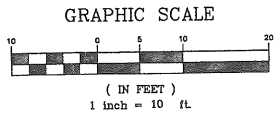


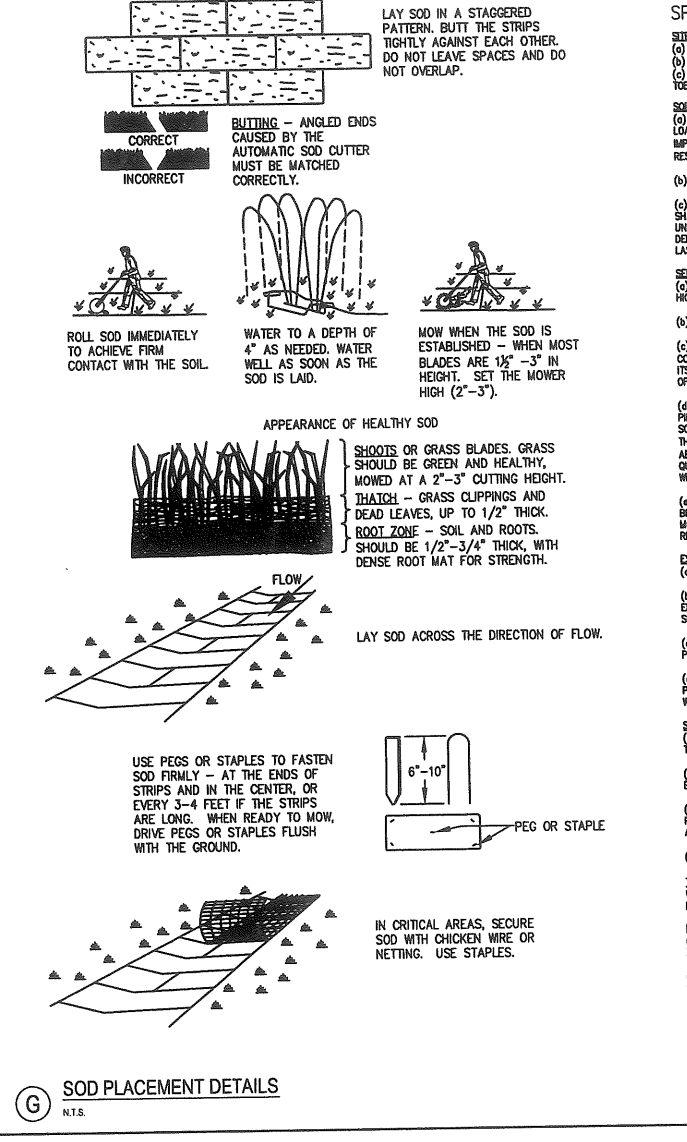
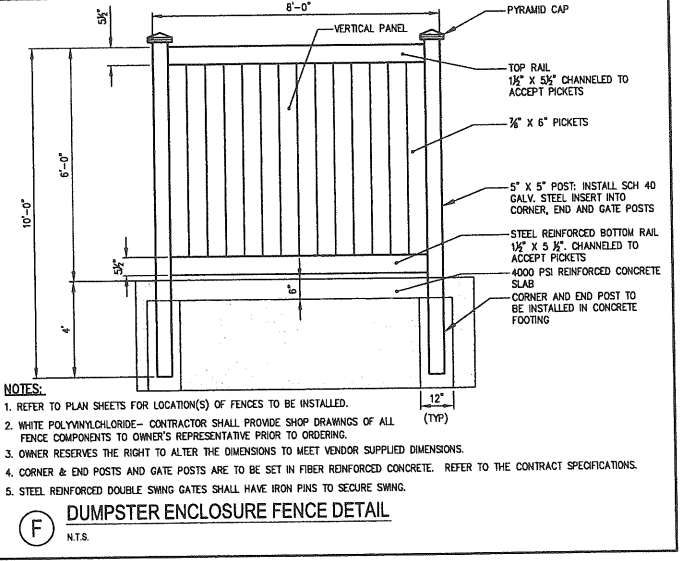
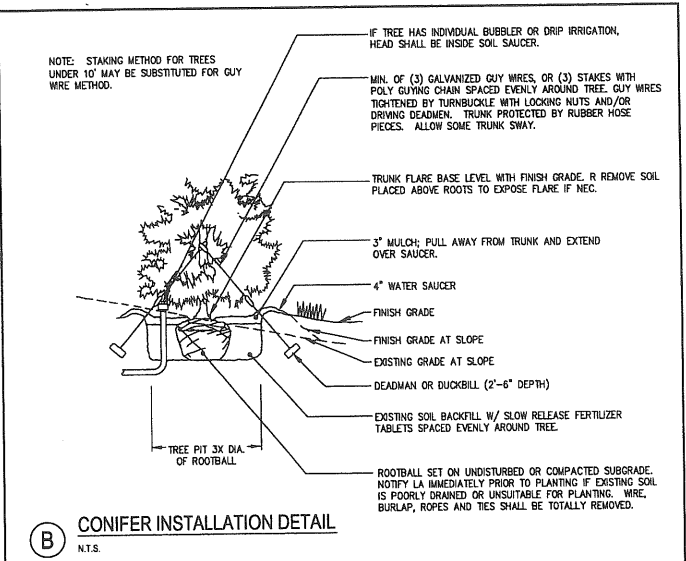
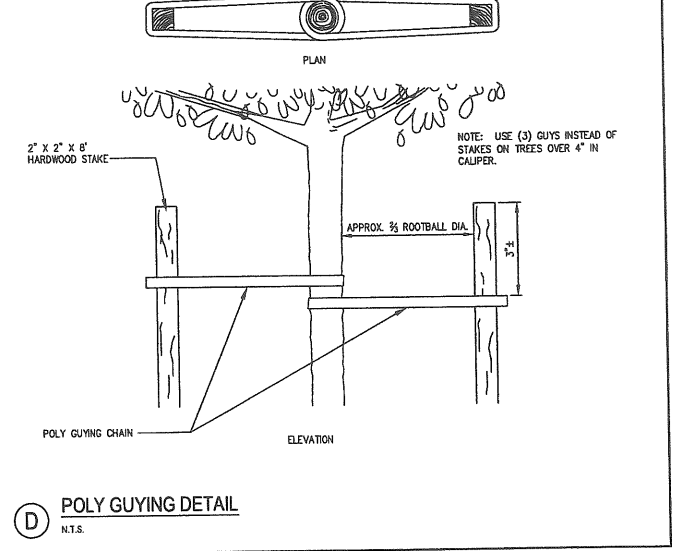
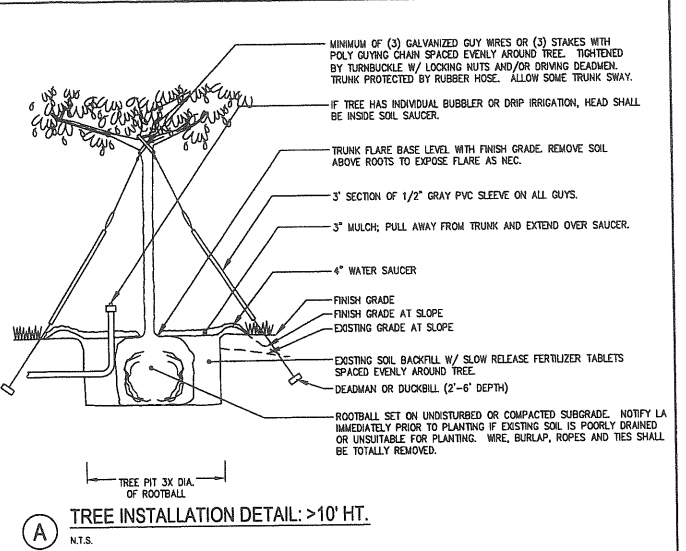
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REV	DATE	DESCRIPTION	BY
4	01.15.09	FINAL PLAN SUBMISSION TO CITY OF PORTLAND	
3	12.19.08	RESUBMITTED TO CITY OF PORTLAND	
2	11.18.08	SUBMITTED TO CITY OF PORTLAND	
1	08.29.08	30% DESIGN DEVELOPMENT	

PROJECT	CRESCENT HEIGHTS
SHEET TITLE	LANDSCAPE PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DRAWN:	DMB	DATE:	SEPT 2008
DESIGNED:	SEB	SCALE:	1" = 10'
CHECKED:	SRB	JOB NO.:	2827
FILE NAME:	2827-SP		
SHEET	C-11		





SPECIFICATIONS

SITE PREPARATION

(a) INSTALL NEEDED WATER CONTROL MEASURES.

(b) GRADE SLOPES 2:1 OR FLATTER.

(c) BEFORE LAYING SOD, PROVIDE ADEQUATE DRAINAGE WHERE INTERNAL WATER MOVEMENT, ESPECIALLY AT THE TOE OF SLOPES, MAY CAUSE SEEPS OR SOIL SUPPLAGE.

SOIL PREPARATION

(a) PROVIDE THE BEST POSSIBLE SOIL CONDITIONS FOR SODDING. THE DESIRABLE SOIL TEXTURES INCLUDE SANDY LOAM, LOAM, AND SILT LOAM. WHERE DROUGHTY OR CLAYEY SOILS ARE ENCOUNTERED, CONSIDER AMENDING THEM WITH IMPORTED MATERIALS (TOPSOIL, COMPOST, SAND, ETC.) TO IMPROVE MOISTURE AND NUTRIENT RETENTION AND DRAINAGE. RESPIREAD SCREENED NATIVE TOPSOIL (WHEN AVAILABLE) AFTER GRADING.

(b) IF TIME PERMITS, HAVE SOILS TESTED AND FOLLOW LIME AND FERTILIZER RECOMMENDATIONS.

(c) FILL AREAS MUST BE COMPACTED ENOUGH TO PREVENT UNEVEN SETTLING. THE ENTIRE SURFACE TO BE SODDED SHALL BE FREE FROM LARGE CLODS, STONES, OR OTHER DEBRIS. AT THIS STAGE, INCORPORATE LIME AND FERTILIZER UNIFORMLY INTO THE SURFACE SOIL, AS NEEDED. IMMEDIATELY BEFORE SODDING, THE SOIL SHALL BE LOOSENEED TO A DEPTH OF 2\"/>

SELECTION OF SOD

(a) SELECT SOD GROWN FROM SEED OF ADAPTED VARIETIES OR TYPES AND UNDER CULTURAL PRACTICES CONDUIVE TO HIGH QUALITY SOD FREE OF THATCH, WEED, INSECT, DISEASE, AND OTHER PEST PROBLEMS.

(b) SELECT SPECIES AND VARIETIES BEST SUITED FOR THE SITES TO BE STABILIZED.

(c) SELECT SOD AT LEAST 15 MONTHS OLD AND NO OLDER THAN 3 YEARS. CULTIVATED TURF GRASS IS USUALLY CONSIDERED READY FOR HARVEST WHEN A CUT PORTION OF SOD 3 FEET LONG BY 1 TO 1 1/2 FEET WIDE WILL SUPPORT ITS OWN WEIGHT WHEN SUSPENDED VERTICALLY FROM THE UPPER 10 PERCENT OF THE SECTION. THE MOST COMMON AGE OF SOD WHEN CUT IS 15 TO 24 MONTHS.

(d) SELECT SOD CUTS OF WIDTH AND LENGTH SUITED TO THE PROJECT AND AVAILABLE EQUIPMENT. GENERALLY, SOD PIECES ARE 12 TO 24 INCHES WIDE, AVERAGING 18 INCHES IN WIDTH. LENGTHS OF PIECES VARY FROM 4 TO 8 FEET. SOD MAY BE CUT AND ROLLED OR FOLDED IN THE MIDDLE AND STACKED ON PALLETS. FOLDED SOD IS CUT SHORTER THAN ROLLED SOD - ABOUT 3 TO 4 FEET IN LENGTH. SOD SHOULD BE CUT WITH A 1/4 TO 1/2 INCH LAYER OF SOIL. ABOUT 80 PERCENT OF ALL RHIZOMES ARE IN THE TOP 3/4 INCH OF SOIL. THE THINNER THE SOD IS CUT THE MORE QUICKLY IT WILL KNOT TO THE SITE SOIL, BUT THE SOIL LAYER MUST BE THICK ENOUGH TO HOLD CUT PIECES TOGETHER WITHOUT FALLING APART.

(e) HAVE SOD DELIVERED TO THE SITE AS SOON AS PRACTICAL AFTER LIFTING. DURING HOT WEATHER, DELIVERY SHOULD BE MADE WITHIN 8 HOURS AND MAY BE EXTENDED TO 48 HOURS DURING COOL SEASONS. IT IS GENERALLY UNWISE TO MOVE SOD DURING JULY AND AUGUST. IF MOVED DURING THIS PERIOD, SOD MAY NEED TO BE CUT THICKER AND IT WILL REQUIRE FREQUENT IRRIGATION.

ESTABLISHMENT

(a) DATES: SOD CAN BE ESTABLISHED FROM APRIL 1st TO NOVEMBER 15th (MAY VARY WITH REGION OF STATE).

(b) LAY STRIPS OF SOD AT RIGHT ANGLES TO DIRECTION OF SLOPE OR FLOW OF WATER STARTING AT THE LOWEST ELEVATION. WEDGE THE EDGES AND ENDS OF THE SOD STRIPS TOGETHER AND TAMP OR ROLL. STAGGER JOINTS. LAY SO THE TOP OF THE SOIL LAYER IS FLUSH WITH THE TOP OF THE UNDISTURBED GROUND OR PAVEMENT SURFACE.

(c) USE WIRE STAPLES, FINE MESH WIRE OR WOOD PINS AND BRIDER THINE ON VERY STEEP SLOPES TO HOLD SOD IN PLACE UNTIL SECURED BY PLANT GROWTH.

(d) IRRIGATE SODDED AREA IMMEDIATELY AFTER INSTALLATION. IF UNFAVORABLE DRY WEATHER OR OTHER CONDITIONS PREVAIL, ADDITIONAL WATERING WILL SUBSEQUENTLY BE REQUIRED. IT MAY ALSO BE DESIRABLE TO IRRIGATE AREA FROM WHICH SOD IS TO BE REMOVED PRIOR TO LIFTING.

SODDED WATERWAYS

(a) CARE SHALL BE TAKEN TO PREPARE THE SOIL ADEQUATELY IN ACCORDANCE WITH THE SPECIFICATIONS. THE SOD TYPE SHALL CONSIST OF PLANT MATERIALS ABLE TO WITHSTAND THE DESIGNED VELOCITY.

(b) SOD STRIPS IN WATERWAYS SHALL BE LAD PERPENDICULAR TO THE DIRECTION OF FLOW (FIGURE 4.2). CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY.

(c) AFTER ROLLING OR TAMPING, SOD SHALL BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. CHICKEN WIRE, JUTE OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

(d) ALL OTHER SPECIFICATIONS FOR THIS PRACTICE SHALL BE ADHERED TO WHEN SODDING A WATERWAY.

TIMING

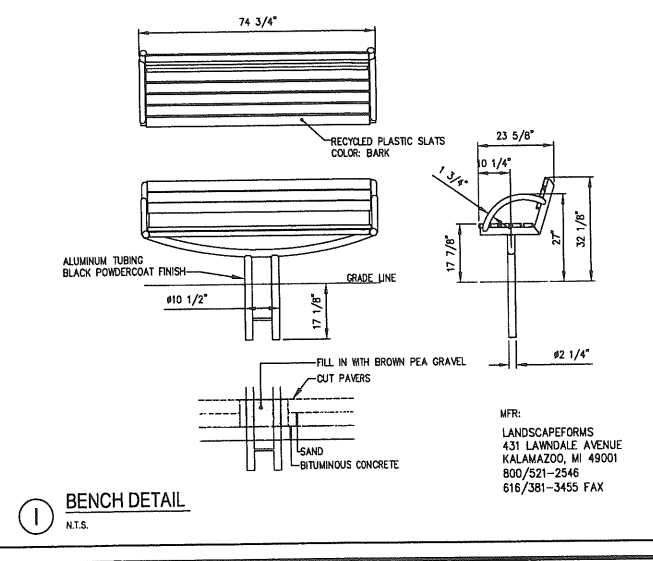
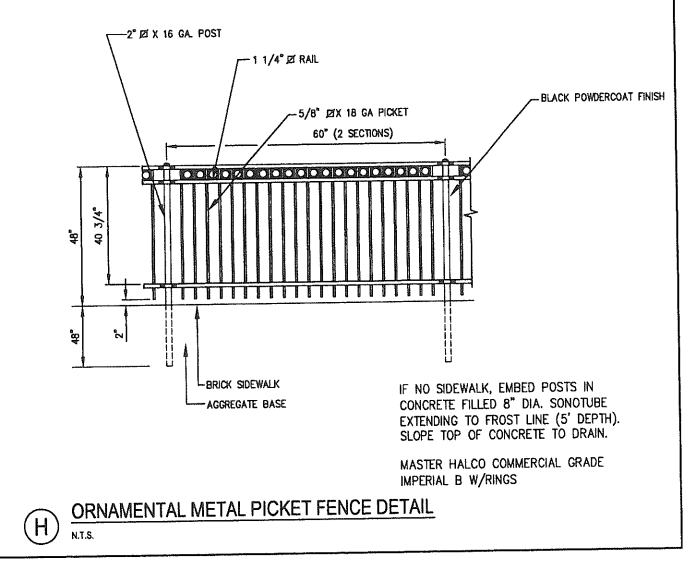
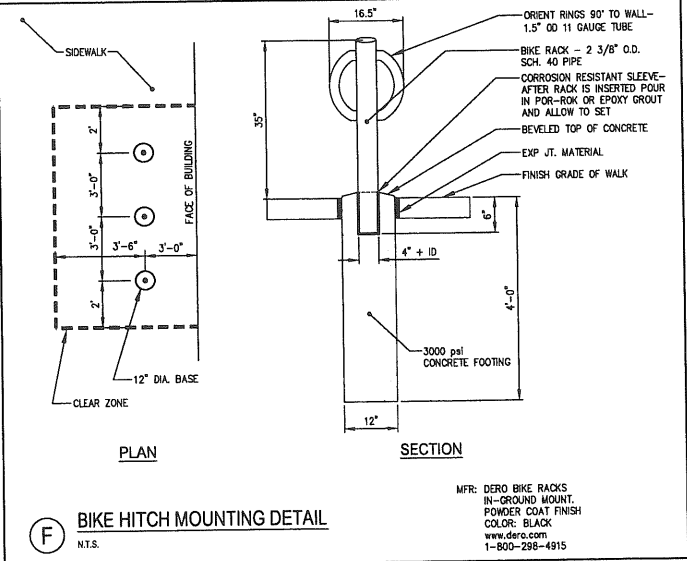
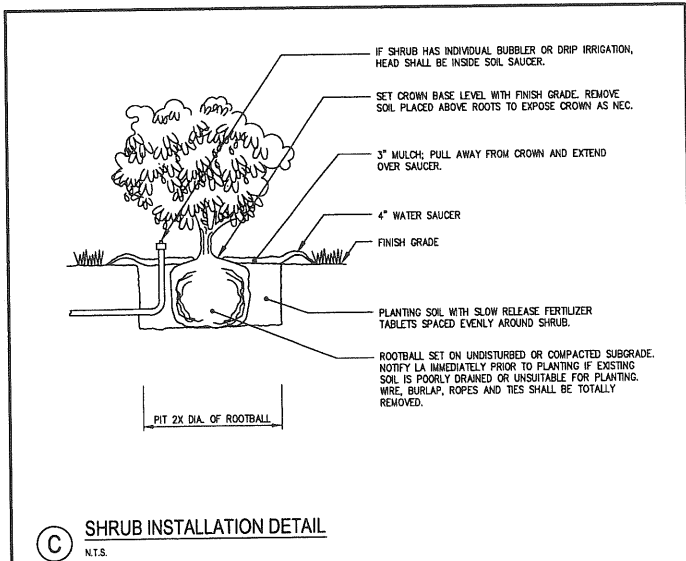
WHEN SOD IS INSTALLED TO STABILIZE AREAS OF CONCENTRATED FLOW (INLETS, DIVERSIONS, DITCHES, ETC.), INSTALLATION MUST BE COMPLETED BEFORE RUNOFF IS DIRECTED TO THAT AREA.

MAINTENANCE

(a) AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE IN THE ROOT ZONE AND PREVENT DORMANCY OF SOD.

(b) NO MORE THAN 1/3 OF THE SHOOT (GRASS LEAF) SHOULD BE REMOVED IN ANY MOWING. GRASS HEIGHT SHOULD BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.

(c) AFTER THE FIRST GROWING SEASON, ESTABLISHED SOD WILL REQUIRE FERTILIZATION AND MAY REQUIRE LIME. FOLLOW SOIL TEST RECOMMENDATIONS.



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2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	

SHELLEY E. BRUNELLE, RLA
LIC. #LAR2593

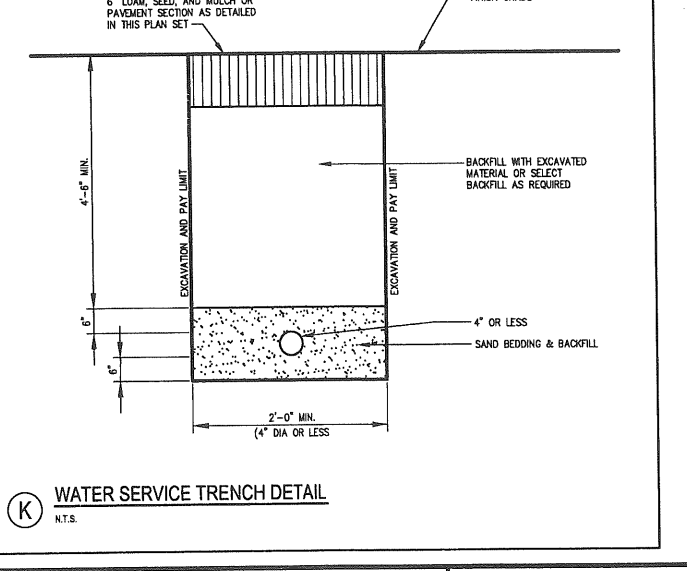
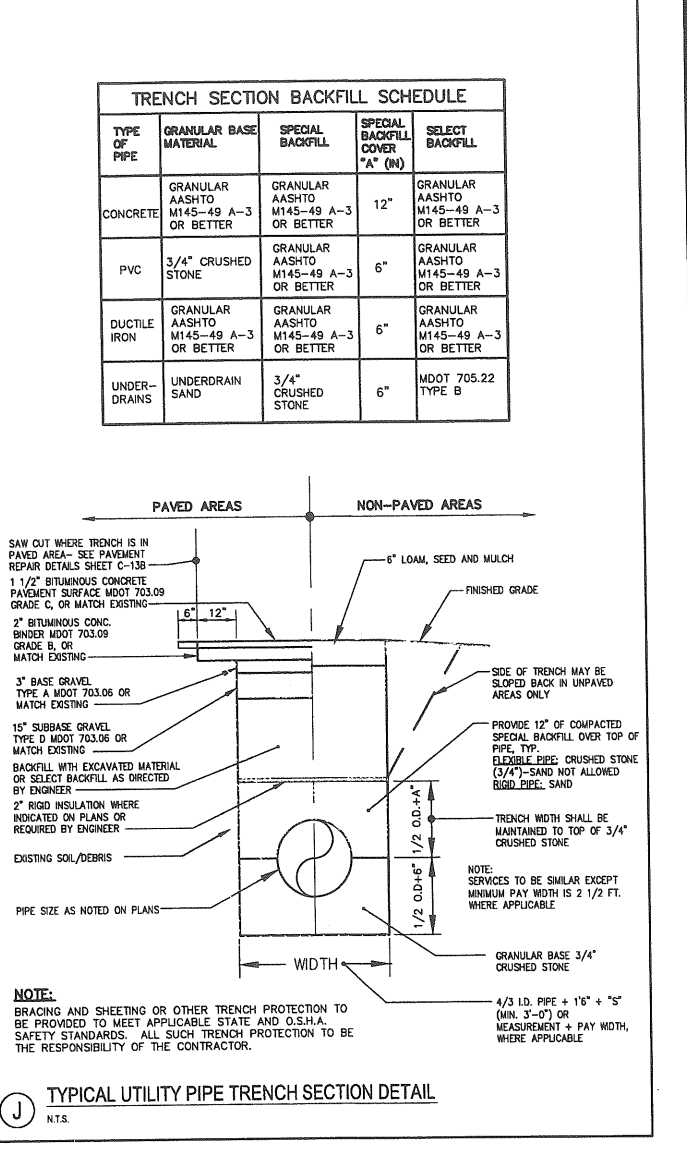
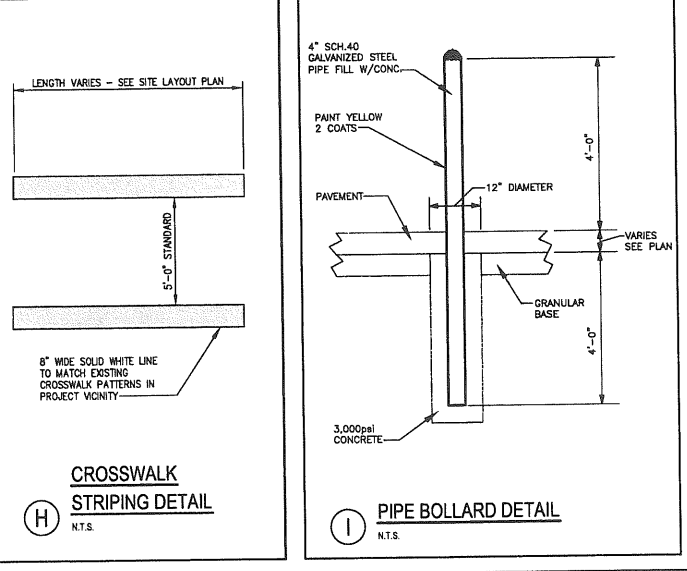
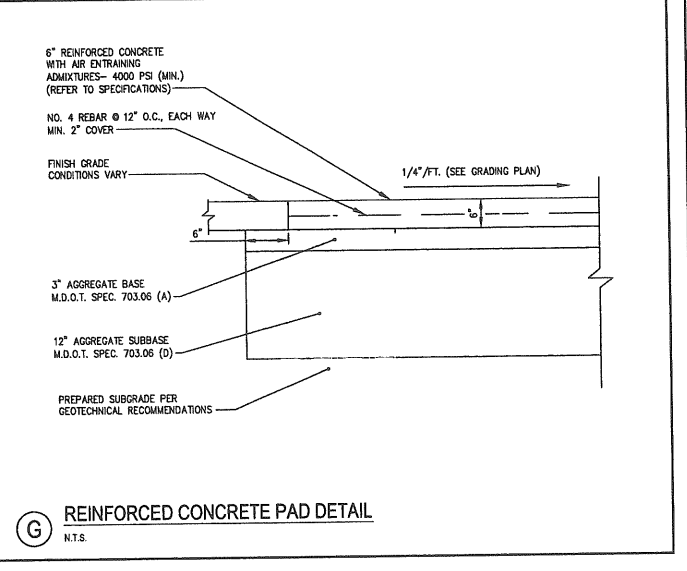
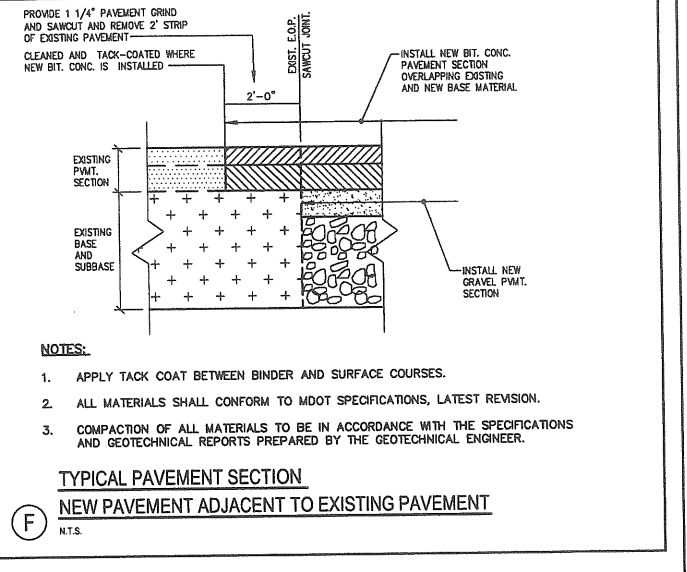
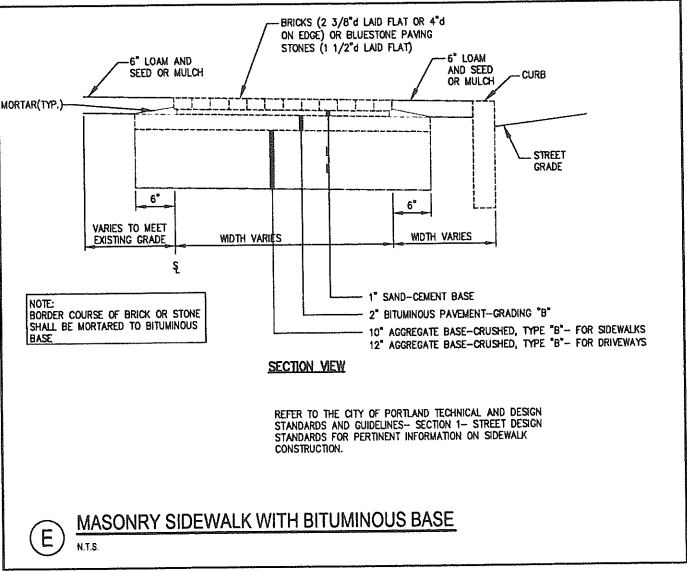
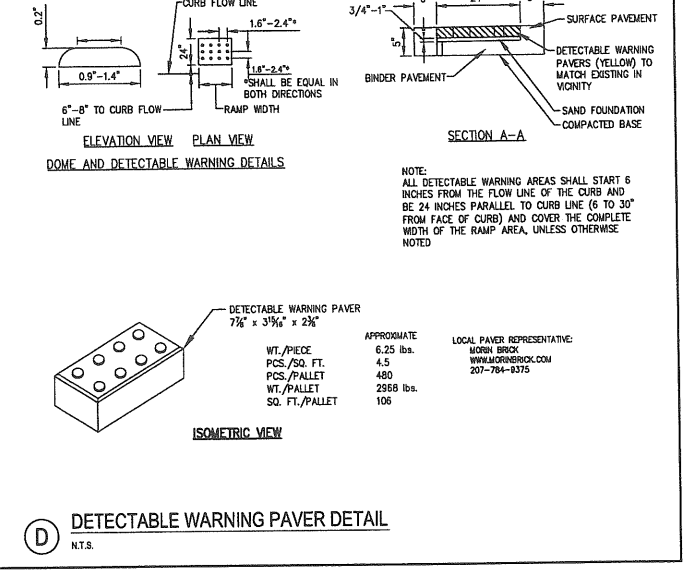
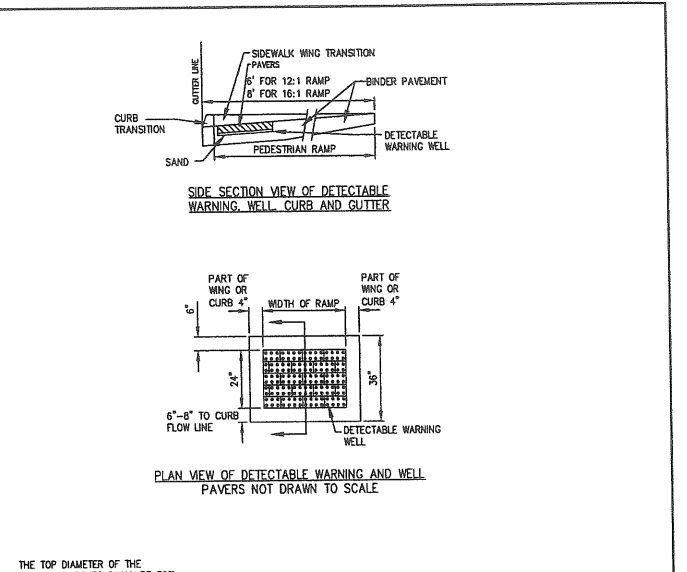
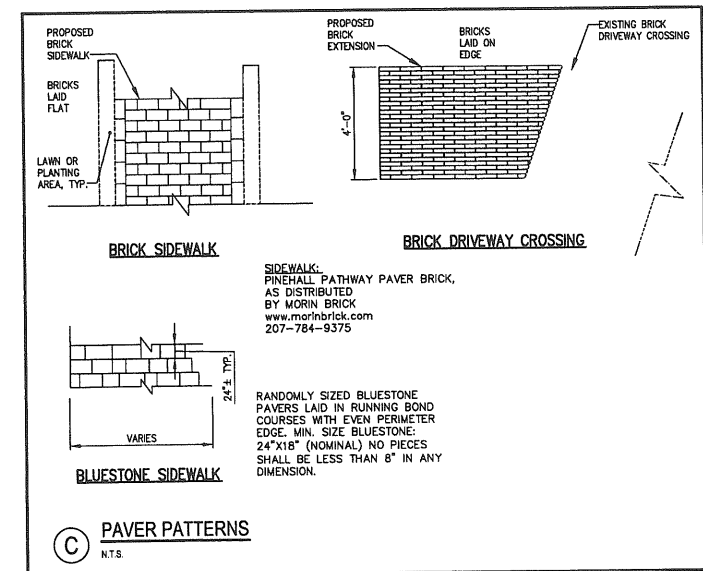
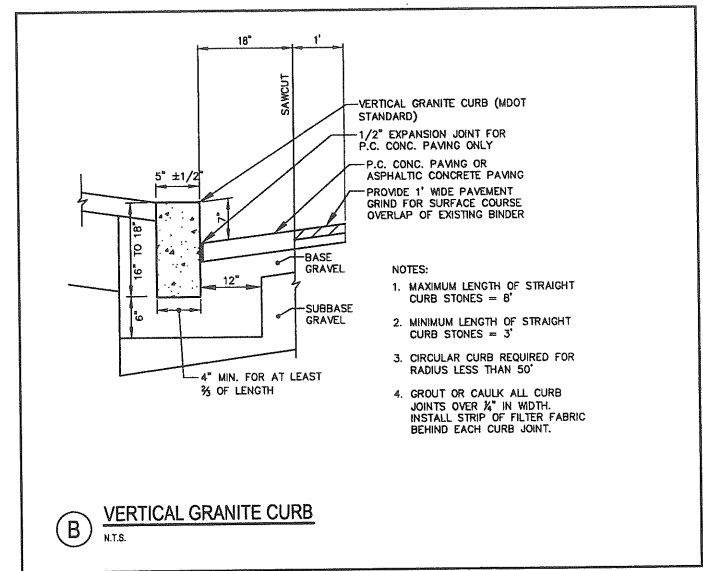
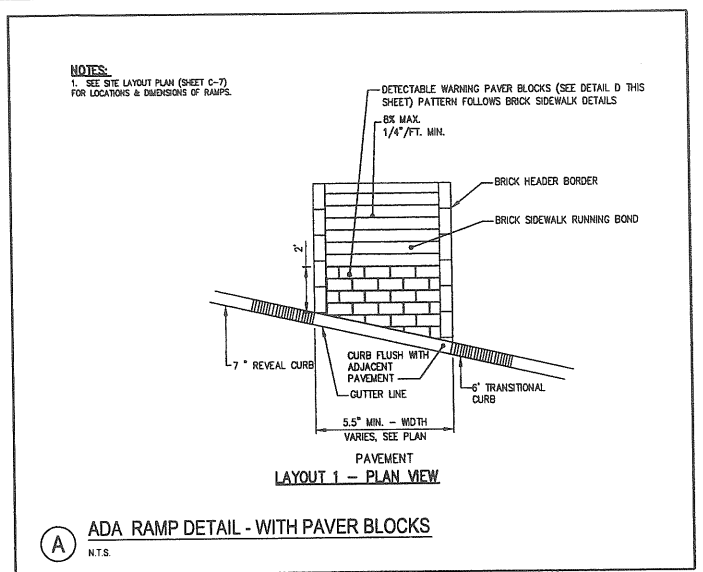
PROJECT: CRESCENT HEIGHTS

SHEET TITLE: LANDSCAPE AND SITE FURNISHING DETAILS

CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DelUCA-HOFFMAN ASSOCIATES, INC.
1718 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET: C-12



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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	

PROJECT: **CRESCENT HEIGHTS**

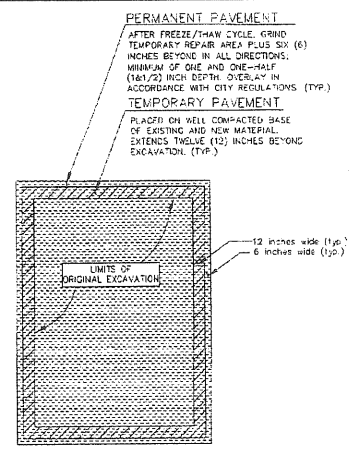
SHEET TITLE: **SITE AND UTILITY DETAILS**

CLIENT: **CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS**

P.E. STEPHEN BUSHEY LIC. #7429

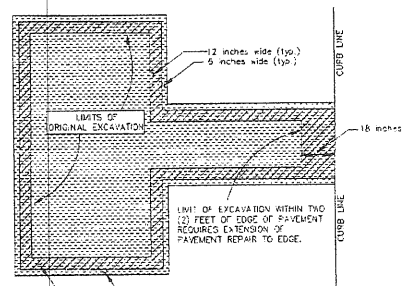
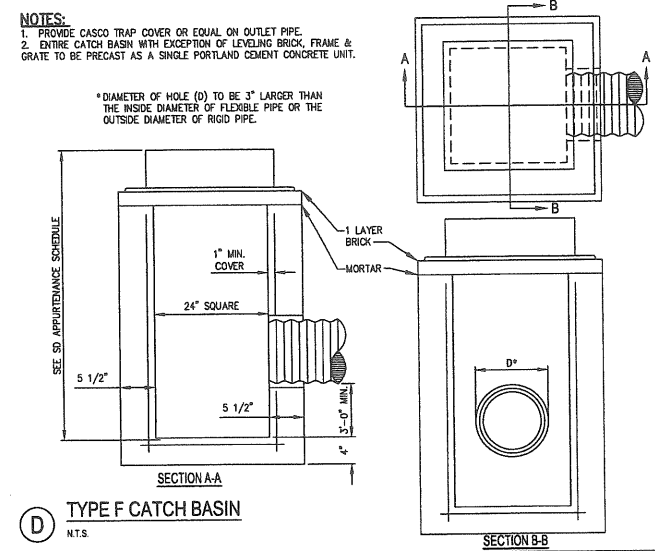
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: OCT 2008
DESIGNED: SEB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET: **C-13A**



NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

(A) PLAN VIEW OF MINOR EXCAVATION PAVEMENT REPAIR
APPENDIX C1 N.T.S.

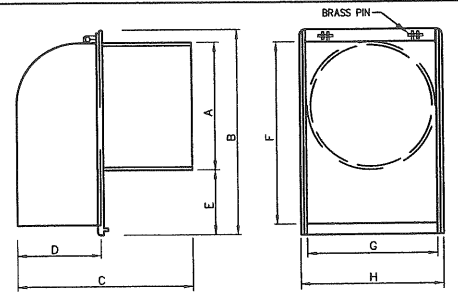


PERMANENT PAVEMENT
AFTER FREEZE/THAW CYCLE, GRIND TEMPORARY REPAIR AREA PLUS SIX (6) INCHES BEYOND IN ALL DIRECTIONS. MINIMUM OF ONE AND ONE-HALF (1 1/2) INCH DEPTH OVERLAY IN ACCORDANCE WITH CITY REGULATIONS (TYP.)

TEMPORARY PAVEMENT
PLACED ON WELL COMPACTED BASE OF EXISTING AND NEW MATERIAL. EXTENDS TWELVE (12) INCHES BEYOND EXCAVATION (TYP.)

NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

(B) PLAN VIEW OF MINOR EXCAVATION PAVEMENT REPAIR
APPENDIX C2 N.T.S.

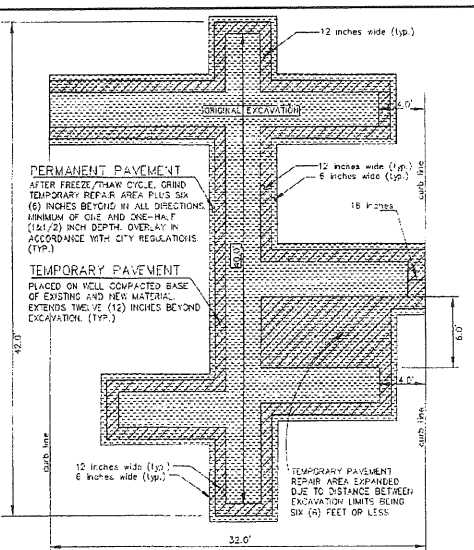


SIZE	A	B	C	D	E	F	G	H
12"	11 1/2	20	18	B	6 3/8	18	12 1/2	13 3/8
15"	14 1/2	22 1/2	23	10 1/4	5 3/4	21	14 1/4	15 3/4

NOTES:
1. INSTALL AN ETHERIDGE FOUNDRY CASCO TRAP ON ALL CATCH BASIN OUTLET PIPES.
2. THE CASCO TRAP IS AN ETHERIDGE STYLE DESIGNED TO ELIMINATE CEMENTING OF THE TRAP. TO INSTALL, THE CASCO TRAP IS INSERTED INTO THE STORM DRAIN WITH THE HOOD DOWN.
3. THE MASS. STANDARD 15" TRAP IS ALSO AVAILABLE.
4. SNOUT OIL & DEBRIS STOP WILL ALSO BE ACCEPTED.

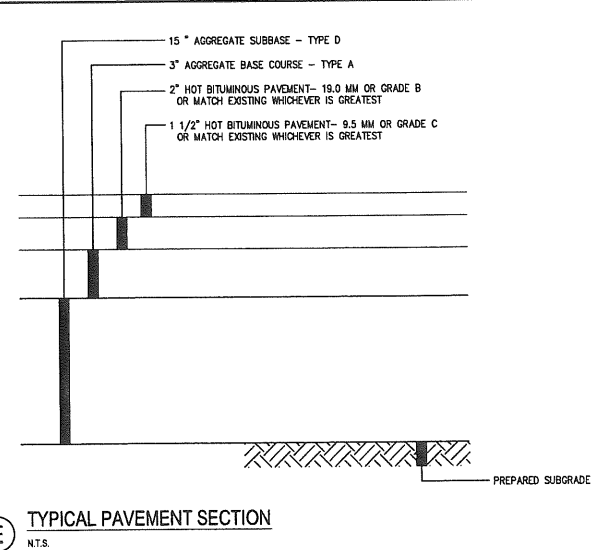
(E) ETHERIDGE FOUNDRY CASCO TRAP DETAIL
N.T.S.

INSTALLATION OF CASCO TRAP IS INCIDENTAL TO CATCH BASIN STRUCTURE.



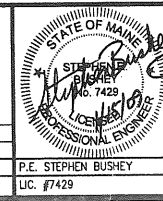
NOTE: AS TAKEN FROM THE CITY OF PORTLAND "RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY"

(C) PLAN VIEW OF MAJOR EXCAVATION PAVEMENT REPAIR
APPENDIX C3 N.T.S.



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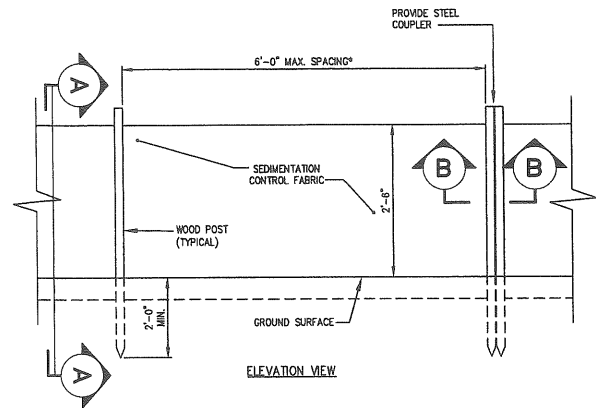
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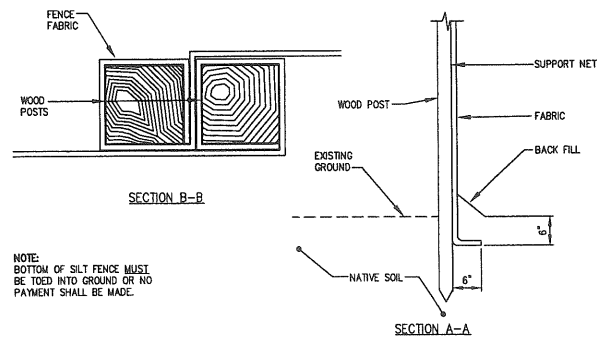
PROJECT	CRESCENT HEIGHTS		
SHEET TITLE	SITE AND UTILITY DETAILS		
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS		

DRAWN:	DMB	DATE:	OCT 2008
DESIGNED:	SEB	SCALE:	AS NOTED
CHECKED:	SRB	JOB NO.:	2827
FILE NAME:	2827-DET		
SHEET	C-13B		

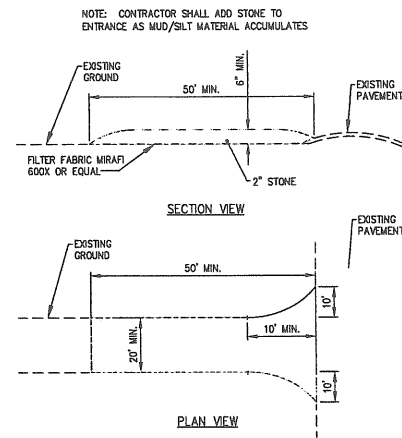
DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE B
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM



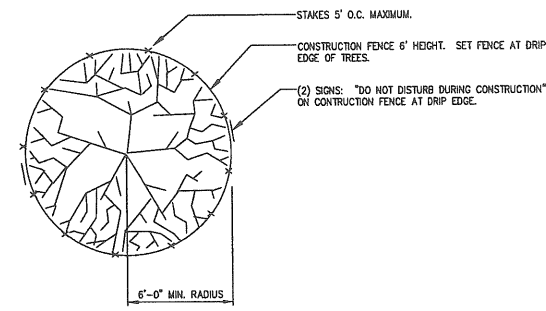
NOTE: THE SILT FENCE SHOULD HAVE A MINIMUM STAKING OF 6' UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT A MINIMUM 14 GAUGE AND WITH A MINIMUM MESH SPACING OF 6".



A SILTATION FENCE DETAIL
N.T.S.



C STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



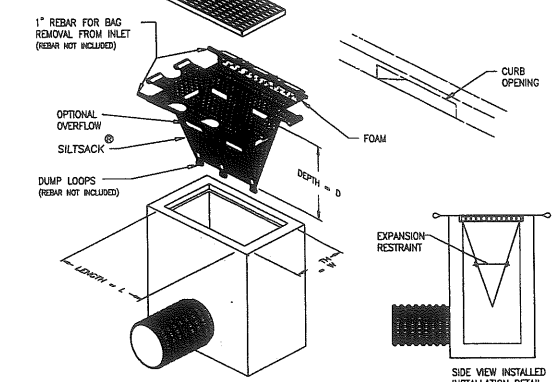
E TREE PROTECTION DETAIL
N.T.S.

SILTSACK®
SPECIFICATIONS

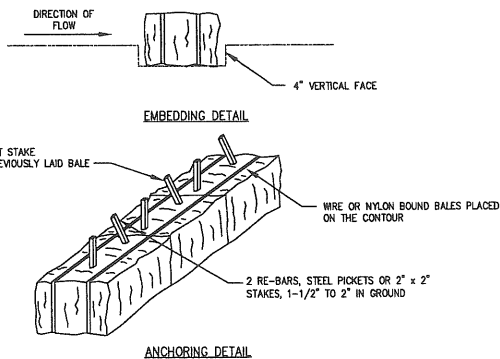
NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

HI-FLOW SILTSACK® (FOR USE IN LOW POINTS/SAGS)
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	135 LBS
MULLEN BURST	ASTM D-3786	400 PS
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/50 FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

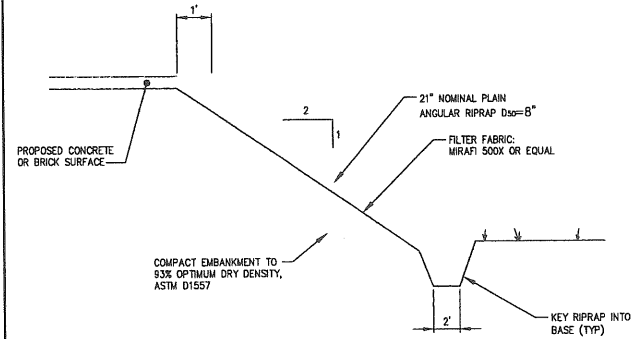


H SILT SACK® DETAIL & SPECIFICATIONS
N.T.S.



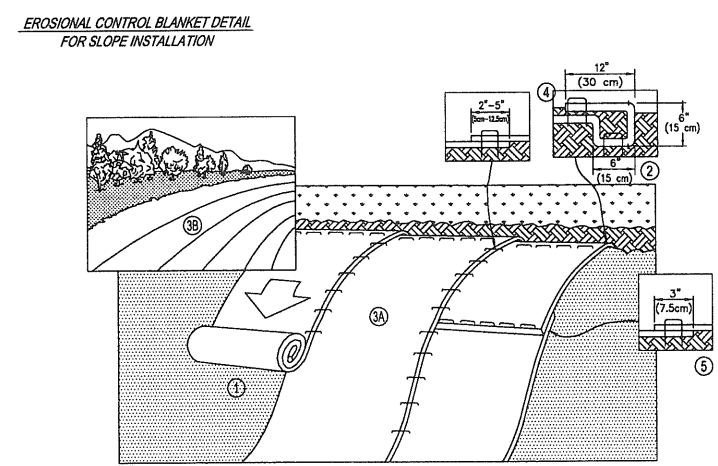
- CONSTRUCTION SPECIFICATIONS**
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE WAS ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 - INSPECTION WILL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

D STRAW OR HAYBALE BARRIER
N.T.S.



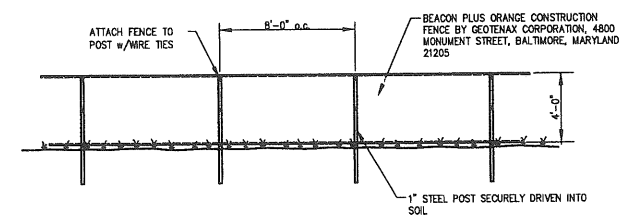
NOTE: RIPRAP SLOPE TREATMENT SUBJECT TO REVIEW AND RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE SAMPLE OF RIPRAP FOR OWNER APPROVAL OF COLOR AND TEXTURE PRIOR TO DELIVERY TO SITE.

F RIPRAP SLOPE DETAIL
N.T.S.



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF THE BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-5" (8cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

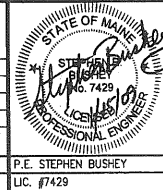
B EROSION CONTROL BLANKET
N.T.S.



G ORANGE CONSTRUCTION FENCE DETAIL
N.T.S.

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1	09.19.08	30X DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	



PROJECT
CRESCENT HEIGHTS

SHEET TITLE
EROSION & SEDIMENT CONTROL DETAILS

CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC.
779 MAIN STREET, SUITE B
SOUTH PORTLAND, ME 04106
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WWW.DELUCAHOFFMAN.COM

DRAWN: DMB DATE: SEPT 2008
DESIGNED: SRB SCALE: AS NOTED
CHECKED: SRB JOB NO. 2827
FILE NAME: 2827-DET
SHEET **C-14**

7.16

EROSION AND SEDIMENT CONTROL NOTES

The primary emphasis of the erosion/sedimentation control plan to be implemented for this project are as follows:
Development of a careful construction sequence. Rapid revegetation of denuded areas to minimize the period of soil exposure. Rapid stabilization of drainage paths to avoid fill and gully erosion. The use of onsite measures to capture sediment (hay bales/silt fence, etc.) The provisions for long term erosion/sediment and pollutant treatment by the incorporation of permanent Best Management Practices.

Description and Location of Limits of All Proposed Earth Movements

The construction of the development will require the following on-site improvements:

Earthwork activity including cuts and fills to bring the building pad and landscape areas to subgrade.

Construction of stormwater measures.

Construction of utilities.

Construction of building foundations including such alternatives as piles or geo-piers.

Erosion/Sedimentation Control Devices

The following erosion and sediment control devices will be implemented by the Contractor as part of the site development. These devices shall be installed as indicated on the plans. For further reference, see the Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices, latest edition.

Siltation fence shall be installed downgradient of any disturbed areas to trap runoff borne sediments until the site is revegetated. The silt fence or erosion control mix barrier shall be installed per the details provided in the plan set and inspected immediately after each rainfall and at least daily during prolonged rainfall. Repairs shall be made immediately by the Contractor if there are any signs of erosion or sedimentation below the fence line. Proper placement of stakes and fabric into the ground is critical to the fence's effectiveness. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind the fence, the barrier shall be replaced with a stone check dam.

Straw or hay mulch including hydroseeding is intended to provide cover for denuded or seeded areas until revegetation is established. Mulch placed on slopes of less than 10 percent shall be anchored by applying water; mulch placed on slopes steeper than 10 percent shall be covered with a fabric netting and anchored with staples in accordance with the manufacturer's recommendations. Slopes steeper than 3:1 which are to be revegetated shall receive Turf Reinforcement by North American Green or equal. Mulch application rates are provided at the end of this section. Hay mulch shall be available on site at all times in order to provide immediate temporary stabilization when necessary.

Riprap slopes, stone check dams, sod and hay bale barriers are intended to reduce runoff velocities and protect denuded soil surfaces from concentrated flows. Installation details and stone sizes are provided in the construction plan set on the erosion control detail sheets.

Construction entrance will be constructed at all access points onto the site to prevent tracking of soil onto Crescent Street or nearby streets.

Storm drain catch basin inlet protection shall be provided through the use of stone sediment barriers or a premanufactured SiltSock™ as distributed by A. H. Harris. Stone sediment barrier installation details are provided in the plan set. The barriers shall be inspected after each rainfall and repairs made as necessary. Sediment shall be removed and the barrier restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the barrier. The barrier shall be removed when the tributary drainage area has been stabilized.

Sod is intended to serve as the primary permanent revegetative measure within the #25/ #29 development area for all denuded areas not provided with other erosion control measures, such as riprap or mulched planting beds. The #15 Crescent Street site shall receive 6" top soil, lime, fertilizer, seed and mulch at the end of construction once the site is no longer used for staging/ materials storage

Temporary Erosion/Sedimentation Control Measures

The following are planned as temporary erosion/sedimentation control measures during construction:

Crushed stone stabilized construction entrance(s) shall be placed at the site access to Crescent Street.

Siltation fence shall be installed along the downgradient side of all disturbed areas. The siltation barrier will remain in place and properly maintained until the site is acceptably revegetated. Multiple rows of silt fence may be required due to the project site's steeper grades.

Stumps, grubbing, or common excavation shall be removed from the site as the work proceeds. Temporary stockpiles shall not be allowed due to the lack of available space and the steepness of the site.

All denuded areas which have been rough graded and are not located within the building pad or pavement subbase area, shall receive temporary mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch, applied at twice the normal application rate and anchored with a fabric netting. The time period for applying mulch shall be limited to 3 days for all areas or immediately in advance of a predicted rainfall event.

Crescent Street and Wescott Street shall be swept to control mud and dust as necessary. A street sweeper shall be available on immediate notice.

During grubbing operations stone check dams or hay bale barriers will be installed at any evident concentrated flow discharge points.

Silt fencing with a maximum stake spacing of 6 feet should be used, unless the fence is supported by wire fence reinforcement of minimum 14 gauge and with a maximum mesh spacing of 6 inches, in which case stakes may be spaced a maximum of 10 feet apart. The bottom of the fence should be properly anchored a minimum of 6" per the plan detail and backfilled. Any silt fence identified by the owner or reviewing agencies as not being properly installed during construction shall be immediately repaired in accordance with the installation details.

The contractor may choose to place plastic sheeting anchored with sand bags along steeper exposed slopes or foundation construction areas to protect denuded ground surface and to protect subgrade areas.

All turbid water within trenches or excavations shall be pumped into an approved sediment removal device such as a Dirtbag or approved equal. If necessary turbid water shall be pumped into a vac truck and removed from the site and disposed of at an approved off site location.

Permanent Erosion Control Measures

The following permanent erosion control measures have been designed as part of the Erosion/Sedimentation Control Plan:

The foundation drain pipes shall have riprap aprons at their outlet to protect the outlets from scour and deterioration. Installation details are provided in the plan set. The aprons shall be installed and stabilized immediately upon pipe installation.

All areas disturbed during construction, but not subject to other restoration (paving, riprap, planting beds, etc.) will be loamed, limed, and sodded within the proposed building site. The #15 Crescent Street site shall be used as a staging area for the project once the existing building is demolished. At the end of construction all denuded area at #15 Crescent Street shall be loamed (6" min.), limed, fertilized, mulched and seeded with in 7 days of final cleanup.

Timing and Sequence of Erosion/Sedimentation Control Measures

The following construction sequence shall be required to insure the effectiveness of the erosion and sedimentation control measures are optimized. The sequence applies to all phases of construction.

For all grading activities, the contractor shall exercise extreme caution not to overexpose the site by limiting the disturbed areas. Install crushed stone stabilized construction entrances as shown on plans. perimeter siltation barriers as indicated on the plans. Demolish the existing buildings and foundations and clear and grub areas necessary for the utilities and new building foundation areas. Begin excavation.

Excess materials shall be removed from the site. Perform earthwork to bring building pad to subgrade. Begin installation of drainage appurtenances and piping and utilities. Commence additional earthwork around the building foundation as it is completed. Complete installation of storm drainage appurtenances within landscaped areas. Structures within the landscaped areas shall be temporarily set to subgrade and shall be reset upon placement of final loam and seeding or other surface restoration measures. Complete all remaining earthwork operations including fine grading of slopes. Install subbase and base gravels within sidewalk or other hardsurface areas. Install base course paving for sidewalks. Loam, lime, fertilize, seed or sod and mulch disturbed areas and complete all landscaping. Install brick paving for sidewalk areas. Remove accumulated sediment from ahead of any sediment barriers as necessary. Once the site is stabilized, a 90% catch of vegetation has been obtained, remove all temporary erosion control measures. Touch up grassed areas by fertilizing and regrassing as necessary.

Note: All denuded areas not subject to final paving, riprap or gravel, shall be revegetated. Due to the timing and size of the project, completion of the facilities within a summer construction season may not occur. For all work which will be conducted between November 1 and April 15 of the calendar year, the Contractor shall submit a schedule which will satisfy the following criteria:

Limit the amount of exposed area to those areas in which work is expected to be undertaken during the preceding 7 days.

During the construction process, all disturbed areas shall be temporarily covered with mulch within 3 days of final grading if not otherwise available for final riprap, planting bed or sod treatment.

Once final grades have been established, the contractor may choose to dormant seed the disturbed areas prior to placement of mulch and placement of fabric netting anchored with staples.

If dormant seeding is used for temporary stabilization of the site, all disturbed areas shall receive 6" of loam and seed at an application rate of 6#/1000 s.f.

All areas seeded during the winter months will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 90 percent catch) shall be revegetated by replacing loam, seed and mulch.

If dormant seeding is not used for the site, all disturbed areas shall be revegetated with temporary seeding or permanent landscaping and sod in the spring.

The area of denuded non-stabilized construction shall be limited to the minimum area practicable. An area shall be considered to be denuded until the subbase gravel is installed in sidewalk areas, the base slab gravel is installed in building areas, or the areas of future landscape treatment have been loamed, seeded, and mulched or fully sodded. The mulch rate shall be twice the rate specified. [For example, 115#/1,000 s.f. x 2 = 230#/1,000s.f.]

The Contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions at no extra expense to the owner.

PERMANENT SEEDING PLAN - LOW MAINTENANCE- #15 CRESCENT STREET SITE

Project CRESCENT HEIGHTS

Site Location Portland, Maine

- 1.Area to be seeded: <1 acre, OR 20M Sq. Ft.
- 2.Instructions on preparation of soil: Prepare a good seed bed for planting method used.
- 3.Apply lime as follows: #/acres, OR 138#/M Sq. Ft.
- 4.Fertilize with pounds of N-P-K/ac. OR 20 pounds of 10 - 20 - 20 N-P-K/M Sq. Ft.
- 5.Method of applying lime and fertilizer: Spread and work into the soil before seeding.
- 6.Seed with the following mixture:
 - 30% Creeping Red Fescue
 - 35% Tall Fescue
 - 20% Perennial Ryegrass
 - 15% Annual Ryegrass
- 7.Mulching instructions: Apply at the rate of tons per acre. OR 115 pounds per M. Sq. Ft.
- 8.TOTAL LIME 138 #/1000 sq. ft.
- 9.TOTAL FERTILIZER 20 #/1000 sq. ft.
- 10.TOTAL SEED 6 #/1000 sq. ft.
- 11.TOTAL MULCH 115 #/1000 sq. ft.
- 12.TOTAL other materials, seeds, etc.
- 13.REMARKS

When using small grain as nurse crop seed it at one-half the normal seeding rate. When using large grain as nurse crop seed it at one-half the normal seeding rate. Spring seeding is recommended, however, late summer (prior to September 1) seeding can be made. Permanent seeding should be made prior to October 15 or as a dormant seeding after the first killing frost and before the first snowfall. If seeding cannot be done within these seeding dates, temporary seeding and mulching shall be used to protect the site. Permanent seeding shall be delayed until the next recommended seeding period.

Fertilizer and lime requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer and lime application rates to the owner

TEMPORARY SEEDING PLAN (APPLICABLE TO BOTH #15 CRESCENT STREET AND #29 CRESCENT STREET)

Project CRESCENT HEIGHTS

Site Location Portland, Maine

- 1.Area to be seeded: <1 acre, OR 20M Sq. Ft.
- 2.Instructions on preparation of soil: Prepare a good seed bed for planting method used.
- 3.Apply lime as follows: #/acres, OR 138#/M Sq. Ft.
- 4.Fertilize with pounds of N-P-K/ac. OR 20 pounds of 10 - 20 - 20 N-P-K/M Sq. Ft.
- 5.Method of applying lime and fertilizer: Spread and work into the soil before seeding.
- 6.Seed with the following mixture:
 - 50% Perennial Ryegrass
 - 50% Annual Ryegrass
- 7.Mulching instructions: Apply at the rate of tons per acre. OR 230 pounds per M. Sq. Ft.
- 8.TOTAL LIME 138#/1000 sq. ft.
- 9.TOTAL FERTILIZER 20#/1000 sq. ft.
- 10.TOTAL SEED 2#/1000 sq. ft.
- 11.TOTAL MULCH 230#/1000 sq. ft.
- 12.TOTAL other materials, seeds, etc.
- 13.REMARKS

Recommended seeding dates after August 15. For areas with slopes >10% and fall and winter erosion control areas, mulch netting shall be used per manufacturer's specifications.

Fertilizer requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer application rates to the owner

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5 01.15.09 FINAL PLAN SUBMISSION TO CITY OF PORTLAND				PROJECT	CRESCENT HEIGHTS		DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM
4 12.19.08 RESUBMISSION TO CITY OF PORTLAND				SHEET TITLE	EROSION & SEDIMENT CONTROL NOTES		DRAWN: DMB DATE: SEPT 2008
3 11.18.08 SUBMITTED TO CITY OF PORTLAND				CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS		DESIGNED: SRB SCALE: AS NOTED
2 09.24.08 REFILED SUBMISSION TO CITY OF PORTLAND				FILE NAME:	2827-DET		CHECKED: SRB JOB NO. 2827
1 09.19.08 30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND				REVISIONS			SHEET C-15
REV	DATE	DESCRIPTION	P.E. STEPHEN BUSHY LIC. #7429				

CRESCENT STREET ELEVATION - SOUTH



Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

January 19, 2009

F22

EAST ELEVATION



Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

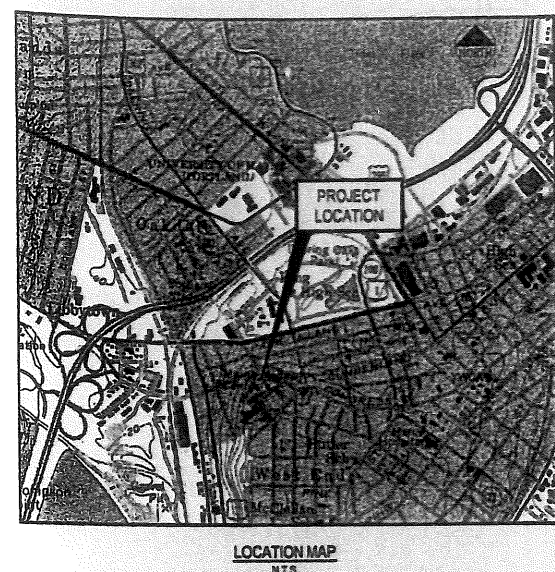
January 19, 2009

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A+C

PROJECT PARCEL SITE		
PORTLAND TAX ASSESSOR'S MAP & LOT NUMBERS		
MAP	BLOCK	LOTS
53	E	4,5,6,14,15, AND PORTION OF LOT 3
53	F	6

SITE DEVELOPMENT PLANS FOR CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS PORTLAND, MAINE #25 + #29 CRESCENT STREET



INDEX

- C-1 COVER SHEET
- C-2 GENERAL NOTES/LEGEND
- C-3 STANDARD BOUNDARY SURVEY- OWEN HASKELL
- C-4 EXISTING CONDITIONS PLAN
- C-5 DEMOLITION AND REMOVAL PLAN
- C-6 TIE BACK PLAN
- C-7 SITE LAYOUT AND UTILITY PLAN
- * C-8 LANDSCAPE PLAN
- * C-9 GRADING, DRAINAGE & UTILITY PLAN
- * C-10 SITE DETAILS
- * C-11 SITE DETAILS

* NOT INCLUDED IN 9.24.08 PRELIMINARY SUBMISSION

UTILITIES

WATER
ATTN: RICO SPUGNARDI
PORTLAND WATER DISTRICT
22 DOUGLAS STREET
P.O. BOX 3533
PORTLAND, MAINE 04104
207.761.8310

SEWER
CITY OF PORTLAND
PUBLIC WORKS ENGINEERING DEPT.
55 PORTLAND STREET
PORTLAND, MAINE 04102
207-874-8840

POWER
ATTN: JEFF HANSCOM
CENTRAL MAINE POWER
162 CANCO ROAD
PORTLAND, MAINE 04103
207.791.1023

TELEPHONE
ATT: SUE SERRETTE
FAIRPOINT COMMUNICATIONS
ONE DAVIS FARM ROAD
PORTLAND, MAINE 04103
207.797.1842

NATURAL GAS
ATTN: MIKE SMITH
NORTHERN UTILITIES
1075 FOREST AVENUE
PORTLAND, MAINE 04103
207.797.8002 EXT. 6220

PERMITS

LOCAL
SITE PLAN PERMIT

BUILDING PERMIT

GOVERNING BODY
CITY OF PORTLAND PLANNING AUTHORITY
CITY HALL, CONGRESS STREET

CITY OF PORTLAND CODE ENFORCEMENT
OFFICE
CITY HALL, CONGRESS STREET

STATUS
PRELIMINARY SUBMISSION 09.19.08

TO BE FILED PRIOR TO CONSTRUCTION

PREPARED BY

CIVIL ENGINEER:
DeLuca-Hoffman Associates, Inc.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, MAINE 04106
207.775.1121

SURVEYOR:
Owen Haskell, inc.
16 CASCO STREET
PORTLAND, MAINE 04101
207-774-0424

GEOTECHNICAL ENGINEER:
S. W. Cole Engineering
17 CHESTNUT STREET
PORTLAND, MAINE 04101
TEL. 207.773.6800
FAX 207.773.6801
ATTN: TIM BOYCE

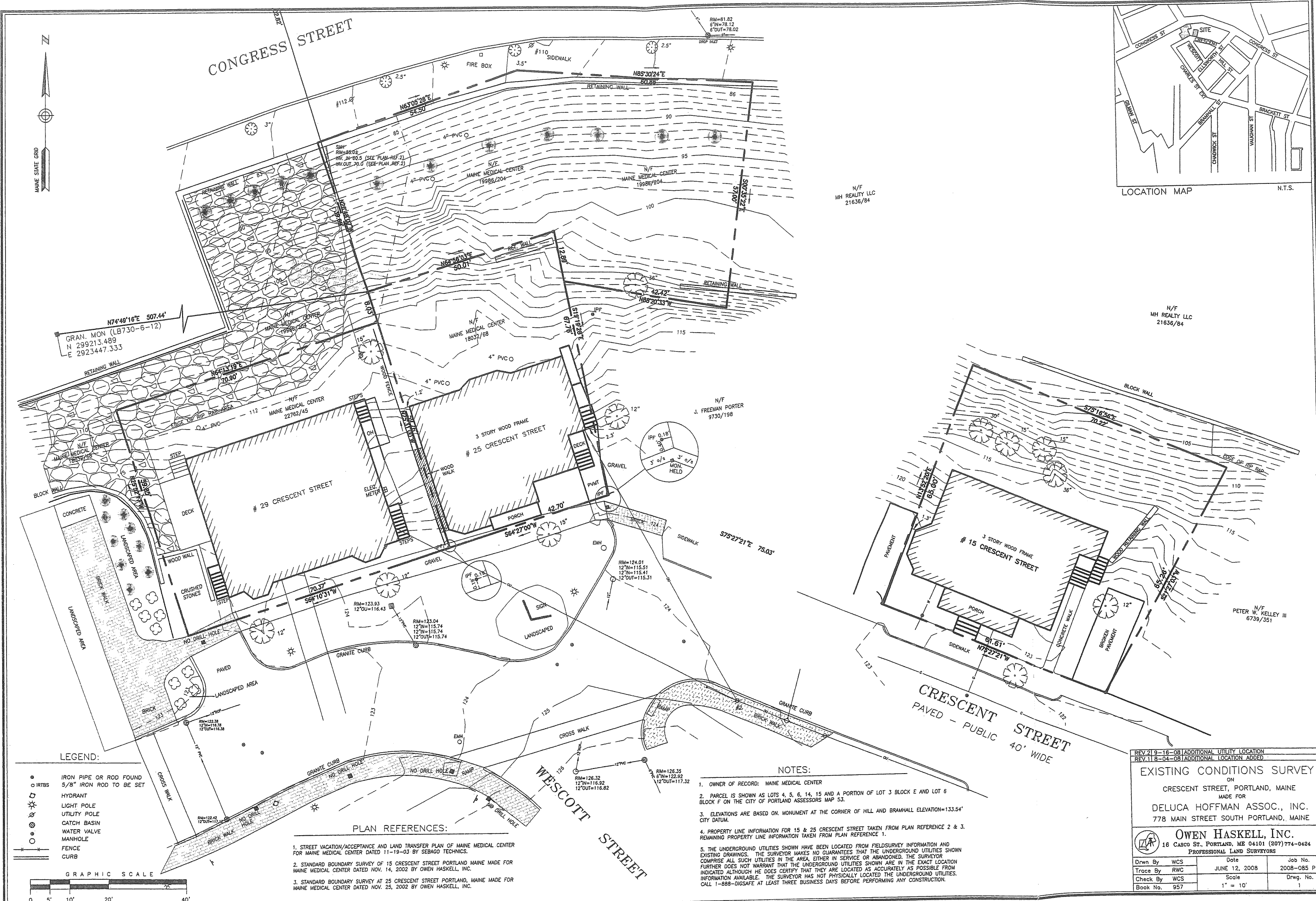
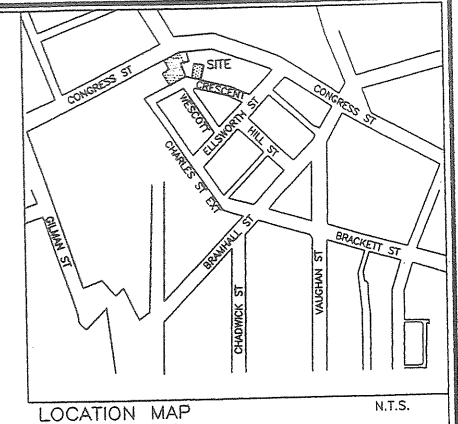
ARCHITECT
Winton Scott Architects
5 MILK STREET
PORTLAND, MAINE 04101
TEL. 207.774.4811
FAX 207.774.3083
ATTN: MARK WILCOX

OWNER/ APPLICANT:
CRESCENT HEIGHTS LLC
17 CHESTNUT STREET
PORTLAND, MAINE 04101
TEL. 207.772.7673
FAX 207.253.5183

PRELIMINARY NOT FOR CONSTRUCTION

[Signature]
I HEREBY ACKNOWLEDGE THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MAINE AND THAT I AM COMPETENT TO PREPARE THIS DOCUMENT.

		PROJECT CRESCENT HEIGHTS SHEET TITLE COVER SHEET CLIENT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	<p>DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM</p> <p>DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: AS NOTED CHECKED: SRB JOB NO.: 2827 FILE NAME: 2827-COV SHEET: C-1</p>
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2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND	
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND	
		REVISIONS	



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REV 21 9-16-08 | ADDITIONAL UTILITY LOCATION
REV 11 8-04-08 | ADDITIONAL LOCATION ADDED

EXISTING CONDITIONS SURVEY
ON
CRESCENT STREET, PORTLAND, MAINE
MADE FOR
DELUCA HOFFMAN ASSOC., INC.
778 MAIN STREET SOUTH PORTLAND, MAINE

OWEN HASKELL, INC.
16 CASCO ST., PORTLAND, ME 04101 (207) 774-0424
PROFESSIONAL LAND SURVEYORS

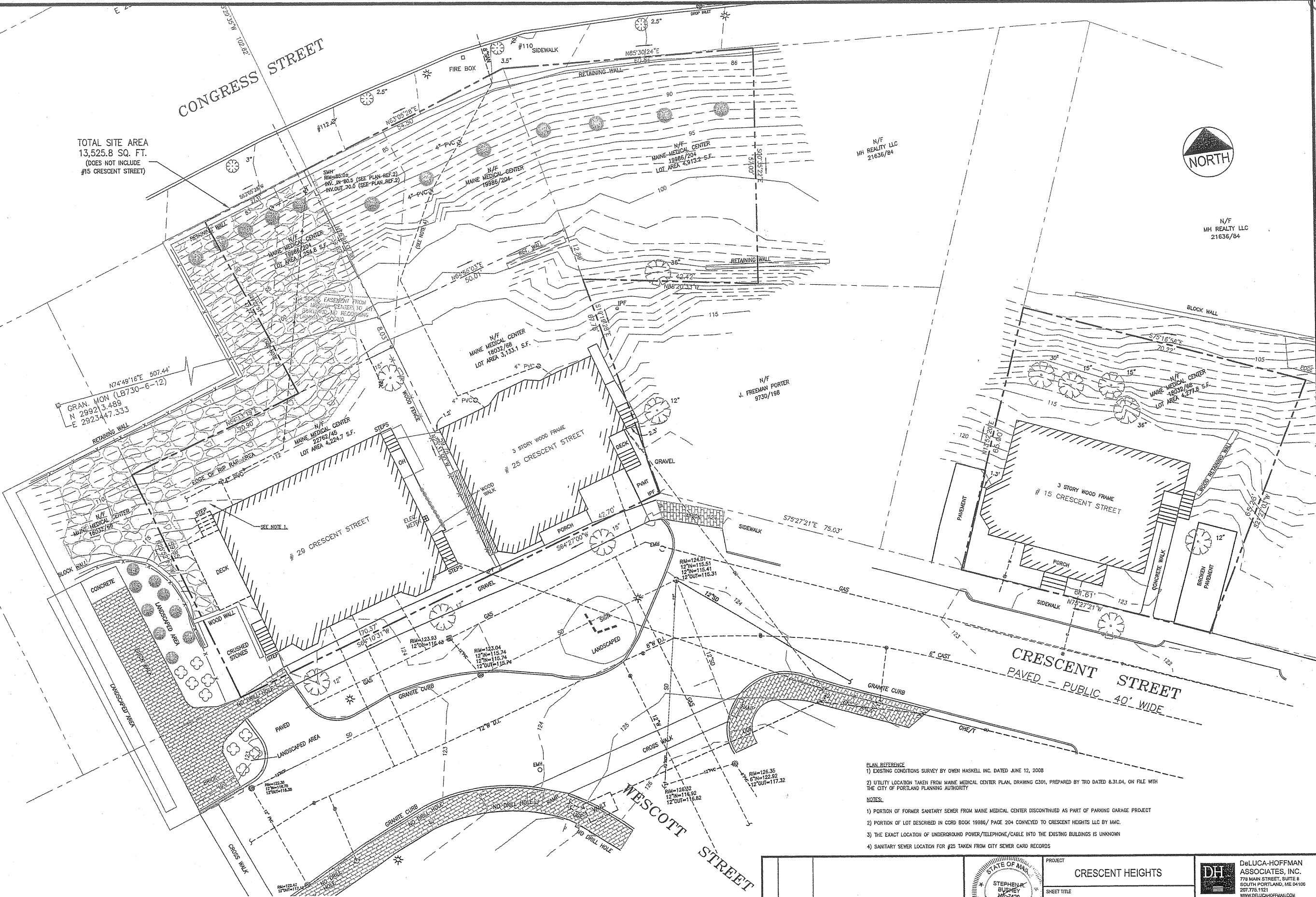
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Trace By	RWC	Scale	1" = 10'	Drwg. No.	1
Check By	WCS				
Book No.	957				

TOTAL SITE AREA
13,525.8 SQ. FT.
(DOES NOT INCLUDE
#15 CRESCENT STREET)



N/F
MH REALTY LLC
21636/84

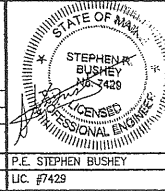
GRAN. MON (LB730-6-12)
N 29923.489
E 292347.333



- PLAN REFERENCE
- EXISTING CONDITIONS SURVEY BY OWEN HASKELL INC. DATED JUNE 12, 2008
 - UTILITY LOCATION TAKEN FROM MAINE MEDICAL CENTER PLAN, DRAWING C301, PREPARED BY TRD DATED 6.31.04, ON FILE WITH THE CITY OF PORTLAND PLANNING AUTHORITY
- NOTES
- PORTION OF FORMER SANITARY SEWER FROM MAINE MEDICAL CENTER DISCONTINUED AS PART OF PARKING GARAGE PROJECT
 - PORTION OF LOT DESCRIBED IN CCRD BOOK 19986/ PAGE 204 CONVEYED TO CRESCENT HEIGHTS LLC BY MMC.
 - THE EXACT LOCATION OF UNDERGROUND POWER/TELEPHONE/CABLE INTO THE EXISTING BUILDINGS IS UNKNOWN
 - SANITARY SEWER LOCATION FOR #25 TAKEN FROM CITY SEWER CARD RECORDS

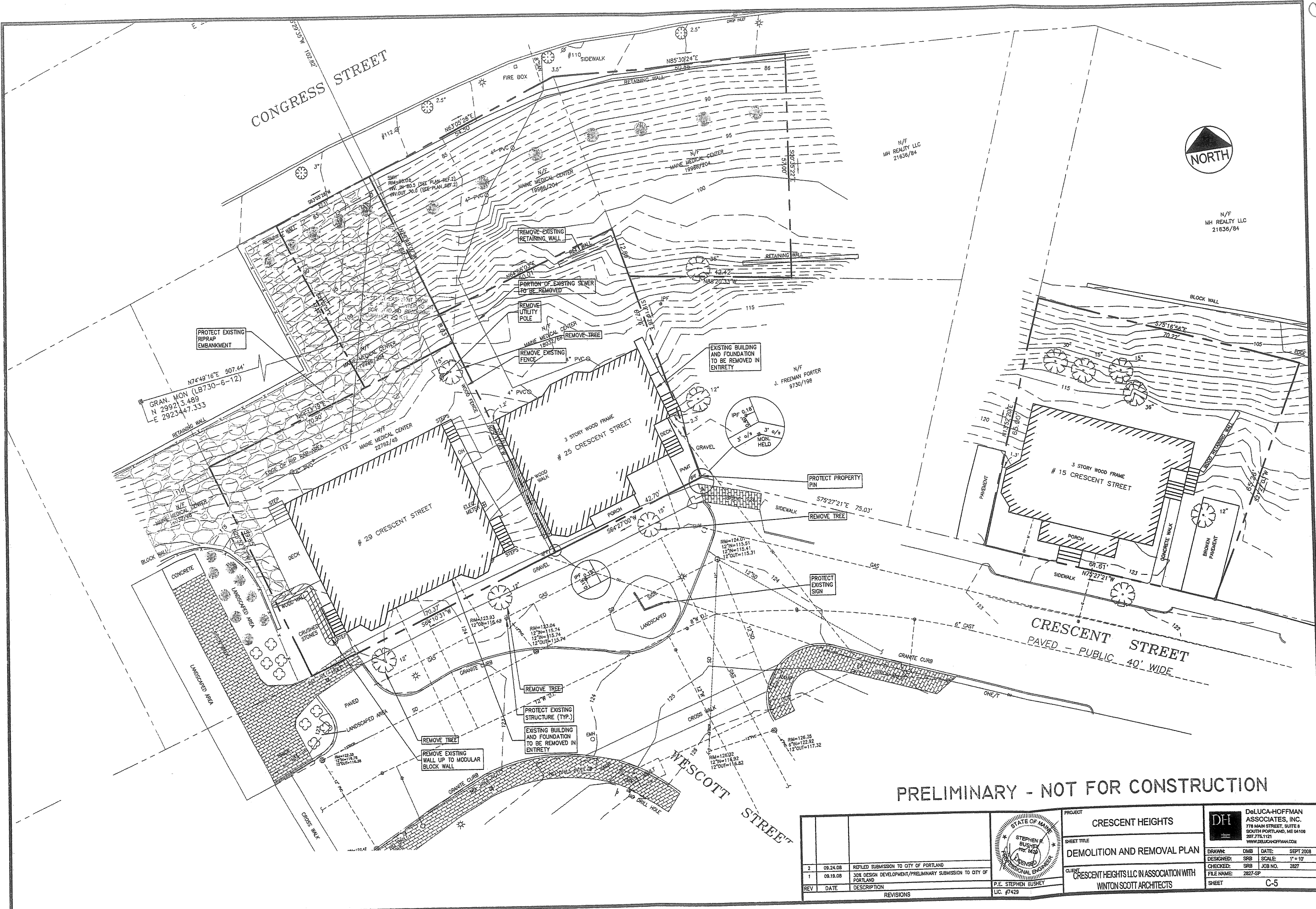
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REV	DATE	DESCRIPTION
3	10.21.08	SUBMITTED TO CITY OF PORTLAND
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND
1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND



PROJECT	CRESCENT HEIGHTS
SHEET TITLE	EXISTING CONDITIONS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM	DRAWN	DMB	DATE	SEPT 2008
	DESIGNED	SRB	SCALE	1" = 10'
	CHECKED	SRB	JOB NO.	2827
	FILE NAME	2827-SP		
SHEET	C-4			



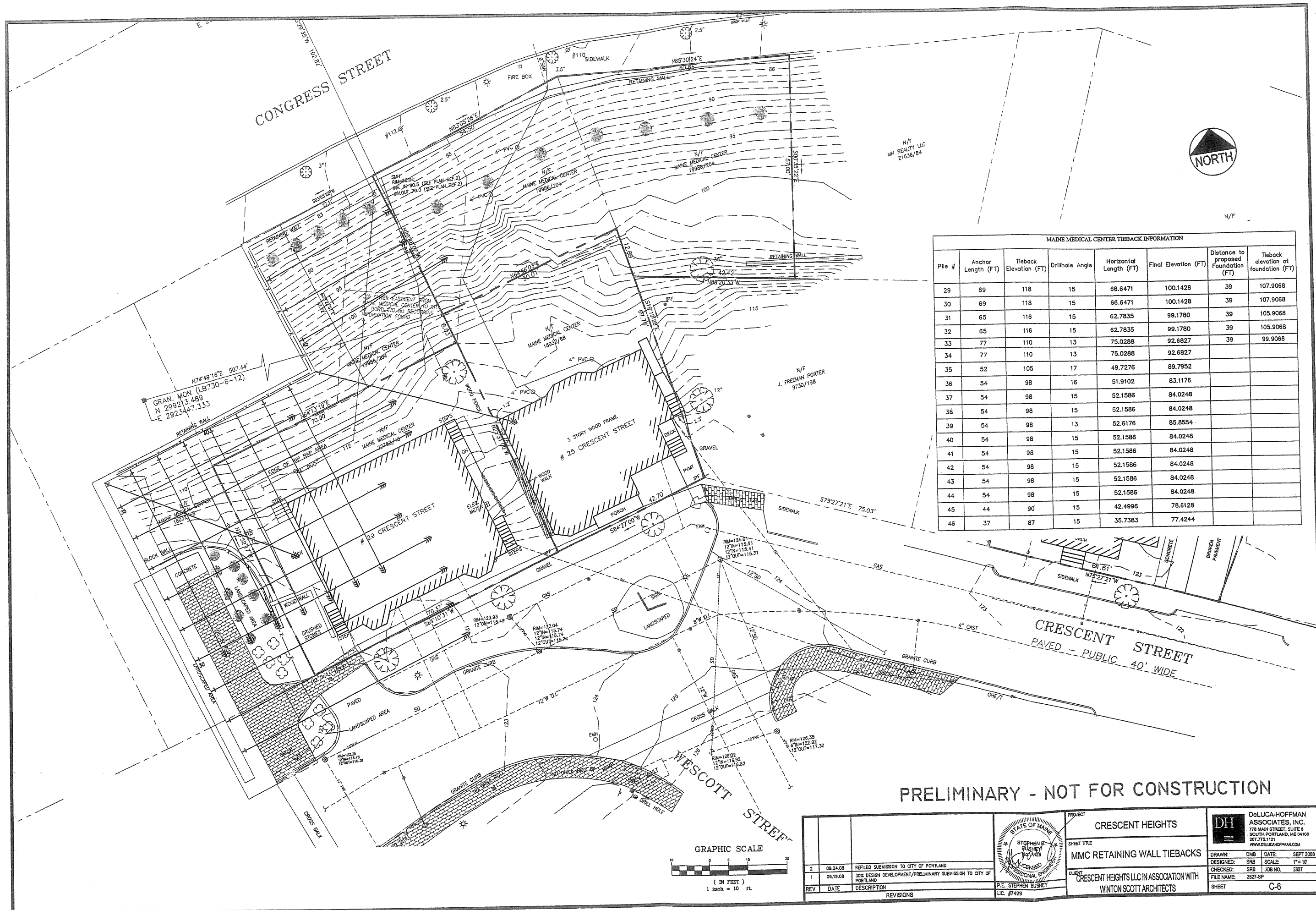
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND

PROJECT	CRESCENT HEIGHTS
SHEET TITLE	DEMOLITION AND REMOVAL PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

	DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1101 WWW.DELUCAHOFFMAN.COM
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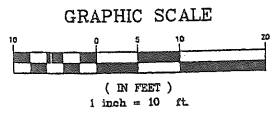
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MAINE MEDICAL CENTER TIEBACK INFORMATION

Pile #	Anchor Length (FT)	Tieback Elevation (FT)	Drillhole Angle	Horizontal Length (FT)	Final Elevation (FT)	Distance to proposed Foundation (FT)	Tieback elevation at foundation (FT)
29	69	118	15	66.8471	100.1428	39	107.9068
30	69	118	15	66.8471	100.1428	39	107.9068
31	65	116	15	62.7835	99.1780	39	105.9068
32	65	116	15	62.7835	99.1780	39	105.9068
33	77	110	13	75.0288	92.6827	39	99.9068
34	77	110	13	75.0288	92.6827		
35	52	105	17	49.7276	89.7952		
36	54	98	16	51.9102	83.1176		
37	54	98	15	52.1586	84.0248		
38	54	98	15	52.1586	84.0248		
39	54	98	13	52.6178	85.8554		
40	54	98	15	52.1586	84.0248		
41	54	98	15	52.1586	84.0248		
42	54	98	15	52.1586	84.0248		
43	54	98	15	52.1586	84.0248		
44	54	98	15	52.1586	84.0248		
45	44	90	15	42.4996	78.6128		
46	37	87	15	35.7383	77.4244		

PRELIMINARY - NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION
2	09.24.08	REFILED SUBMISSION TO CITY OF PORTLAND
1	09.18.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND
		REVISIONS

STATE OF MAINE

STEPHEN R. BUSHEY
LICENSED PROFESSIONAL ENGINEER
LIC. #7429

PROJECT
CRESCENT HEIGHTS

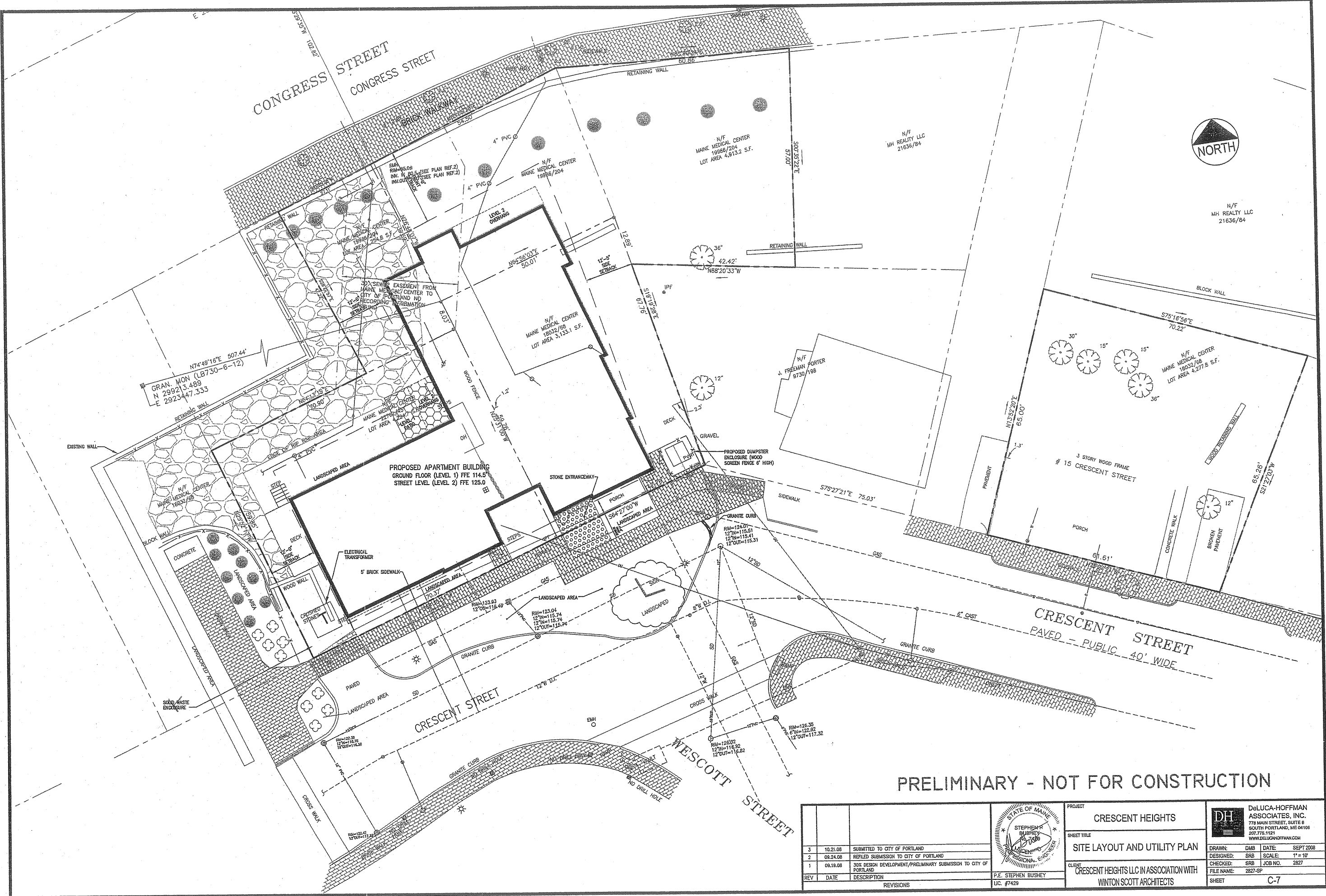
SHEET TITLE
MMC RETAINING WALL TIEBACKS

CLIENT
CRESCENT HEIGHTS LLC IN ASSOCIATION WITH
WINTON SCOTT ARCHITECTS

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DESIGNED: SRB **SCALE:** 1" = 10'
CHECKED: SRB **JOB NO.:** 2827
FILE NAME: 2827-SP
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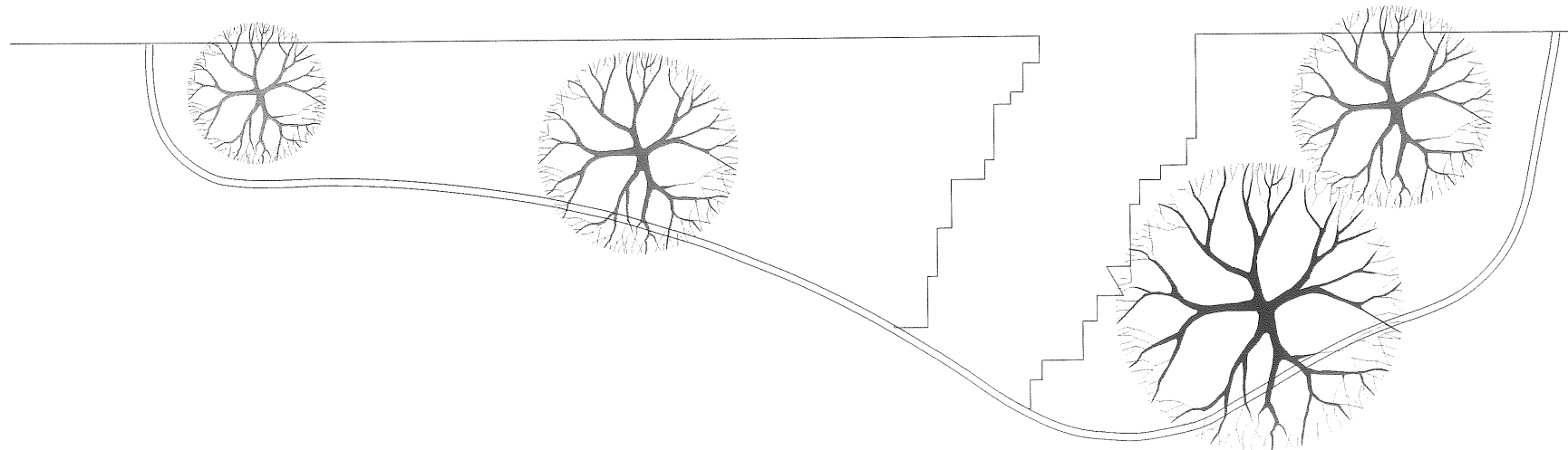
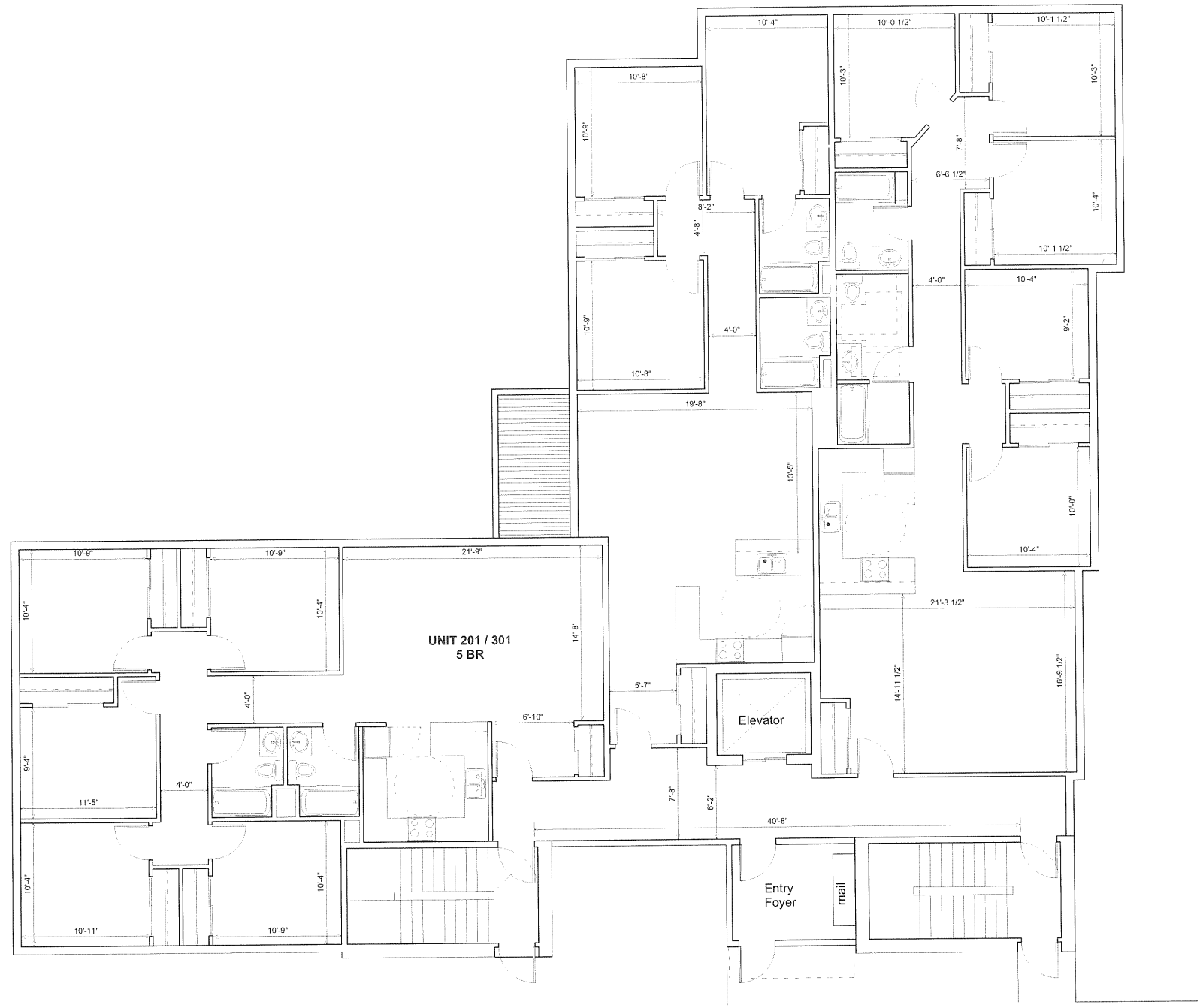
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PRELIMINARY - NOT FOR CONSTRUCTION

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3	10.21.08	SUBMITTED TO CITY OF PORTLAND															
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1	09.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND															
REV	DATE	DESCRIPTION															
SHEET TITLE SITE LAYOUT AND UTILITY PLAN			DRAWN: DMB DATE: SEPT 2008 DESIGNED: SRB SCALE: 1" = 10' CHECKED: SRB JOB NO. 2827 FILE NAME: 2827-SP SHEET C-7														
CLIENT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS			P.E. STEPHEN BUSHEY LIC. #7429														

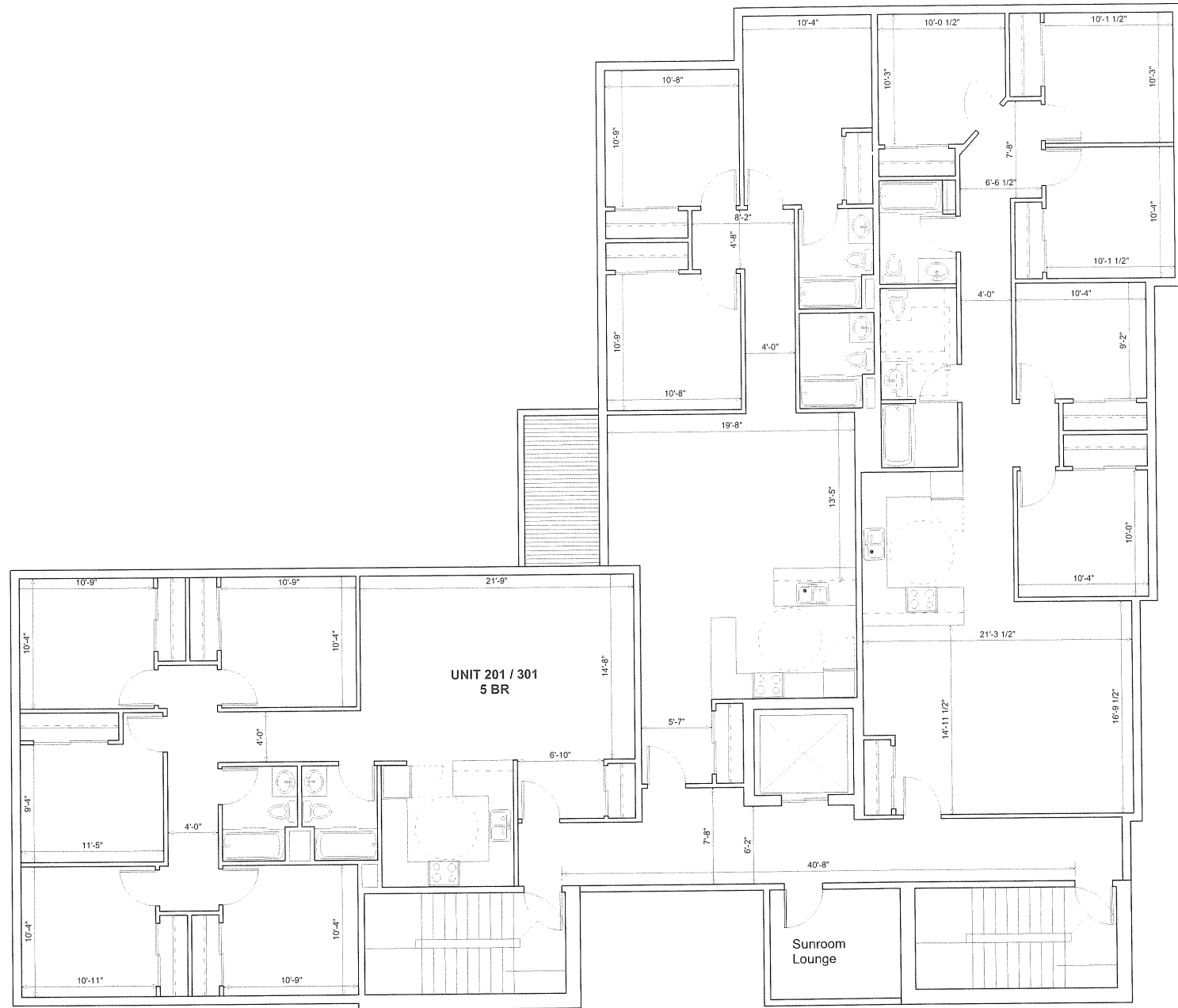
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Level 2 / Ground Floor PLAN

**Crescent Heights
Developers Collaborative
October 21, 2008**

Winton Scott Architects
5 Milk Street
Portland, Maine 04101



Level 3 Floor Plan

**Crescent Heights
Developers Collaborative
October 21, 2008**

Winton Scott Architects
5 Milk Street
Portland, Maine 04101



Level 4 Floor Plan

**Crescent Heights
Developers Collaborative
October 21, 2008**

Winton Scott Architects
5 Milk Street
Portland, Maine 04101



CRESCENT STREET ELEVATION - SOUTH

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

October 21, 2008



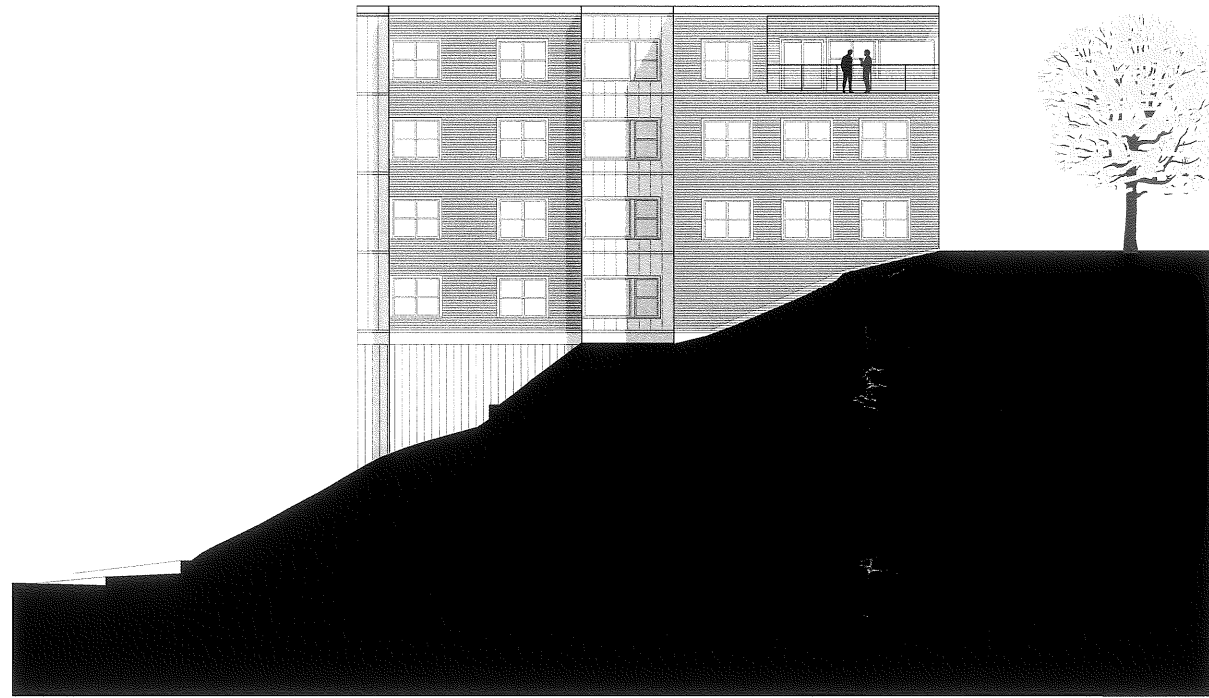
EAST ELEVATION

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative
Winton Scott Architects
October 21, 2008



NORTH ELEVATION

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative
Winton Scott Architects
October 21, 2008



WEST ELEVATION

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

October 21, 2008

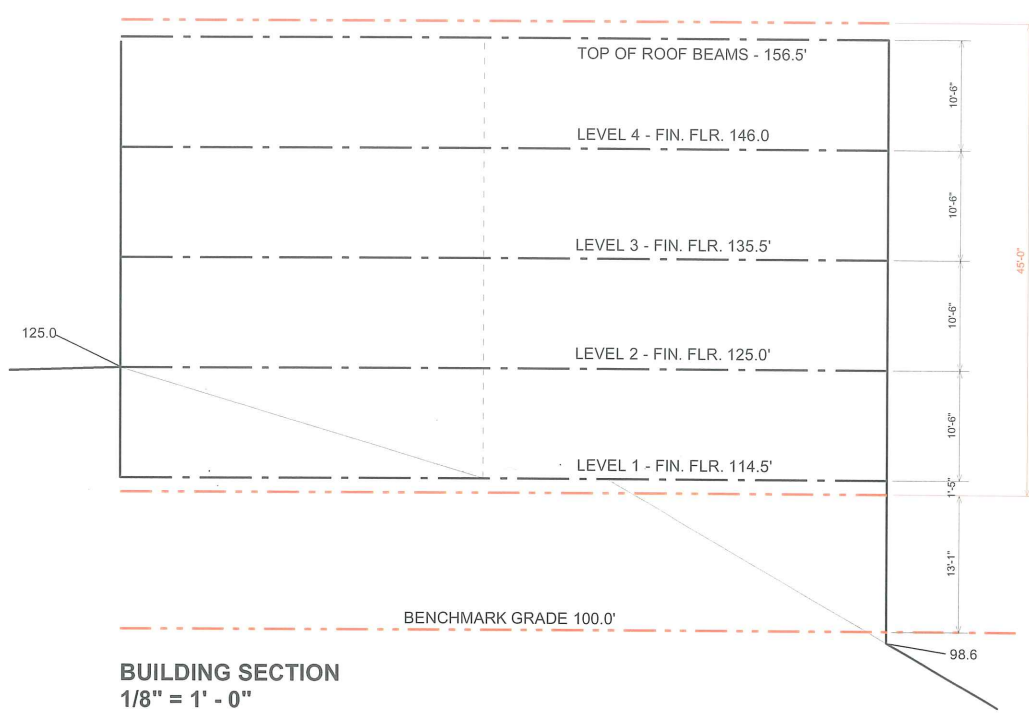


AXONOMETRIC - MAIN ENTRANCE CRESCENT STREET
3/16" = 1' - 0'

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

October 21, 2008

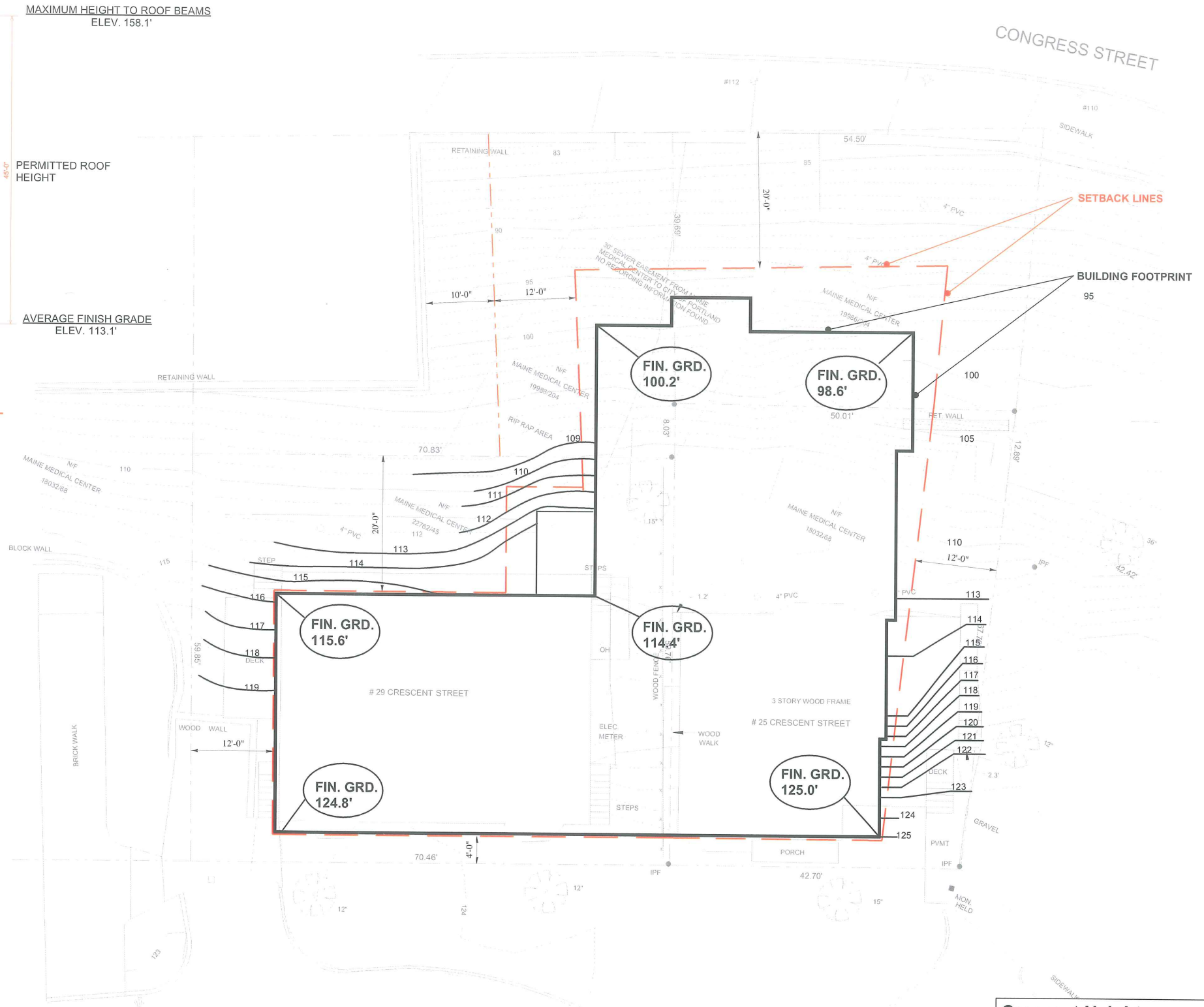


BUILDING SECTION
1/8" = 1' - 0"

FINISH GRADE / BUILDING HEIGHT CALCULATIONS

FINISH GRADES PROPOSED AT BUILDING CORNERS:

124.8
115.6
114.4
100.2
98.6
125.0
TOTAL 678.6'
AVERAGE FINISH GRADE = $\frac{678.6}{6} = 113.1'$



**SITE PLAN ILLUSTRATING
BUILDING FOOTPRINT
REQUIRED SETBACKS
AND FINISH GRADES FOR HEIGHT CALCULATIONS**

1/8" = 1' - 0"

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects

October 21, 2008

WEST ELEVATION



Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

January 19, 2009

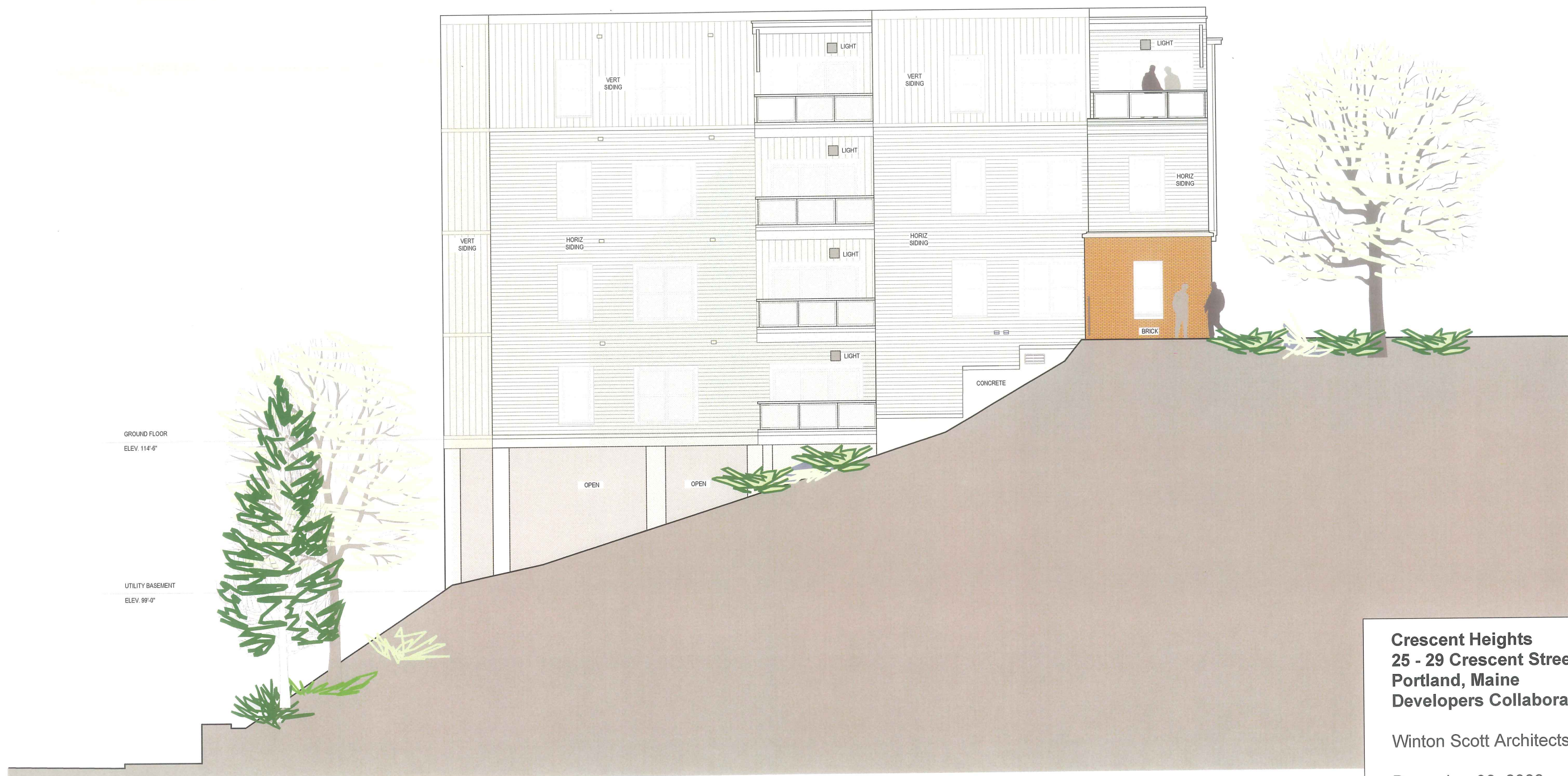


C R E S C E N T H E I G H T S
C O N G R E S S S T R E E T E L E V A T I O N

Developers Collaborative / Winton Scott Architects

AH E 18

WEST ELEVATION

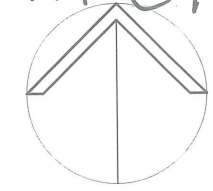


Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

December 30, 2008

AH E 19



NORTH



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



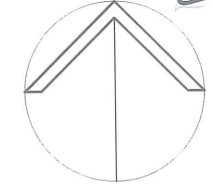
Ground Floor Plan
A 1.1

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

December 24, 2008

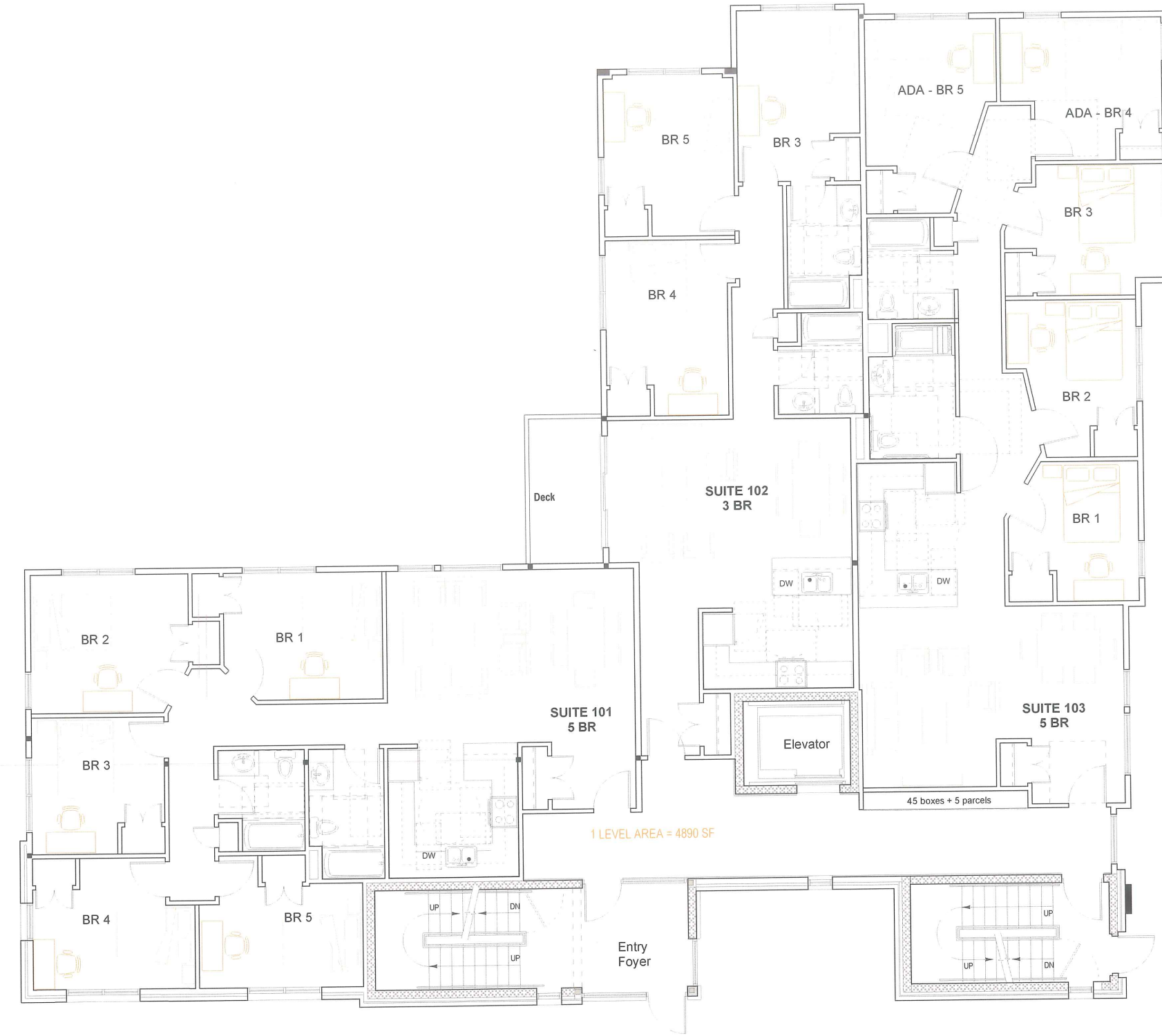
AH E 20



NORTH



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

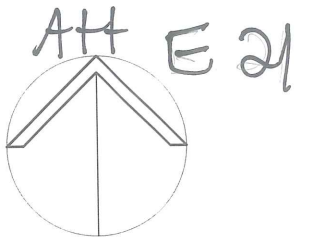


**First Floor Plan
A 1.2**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects

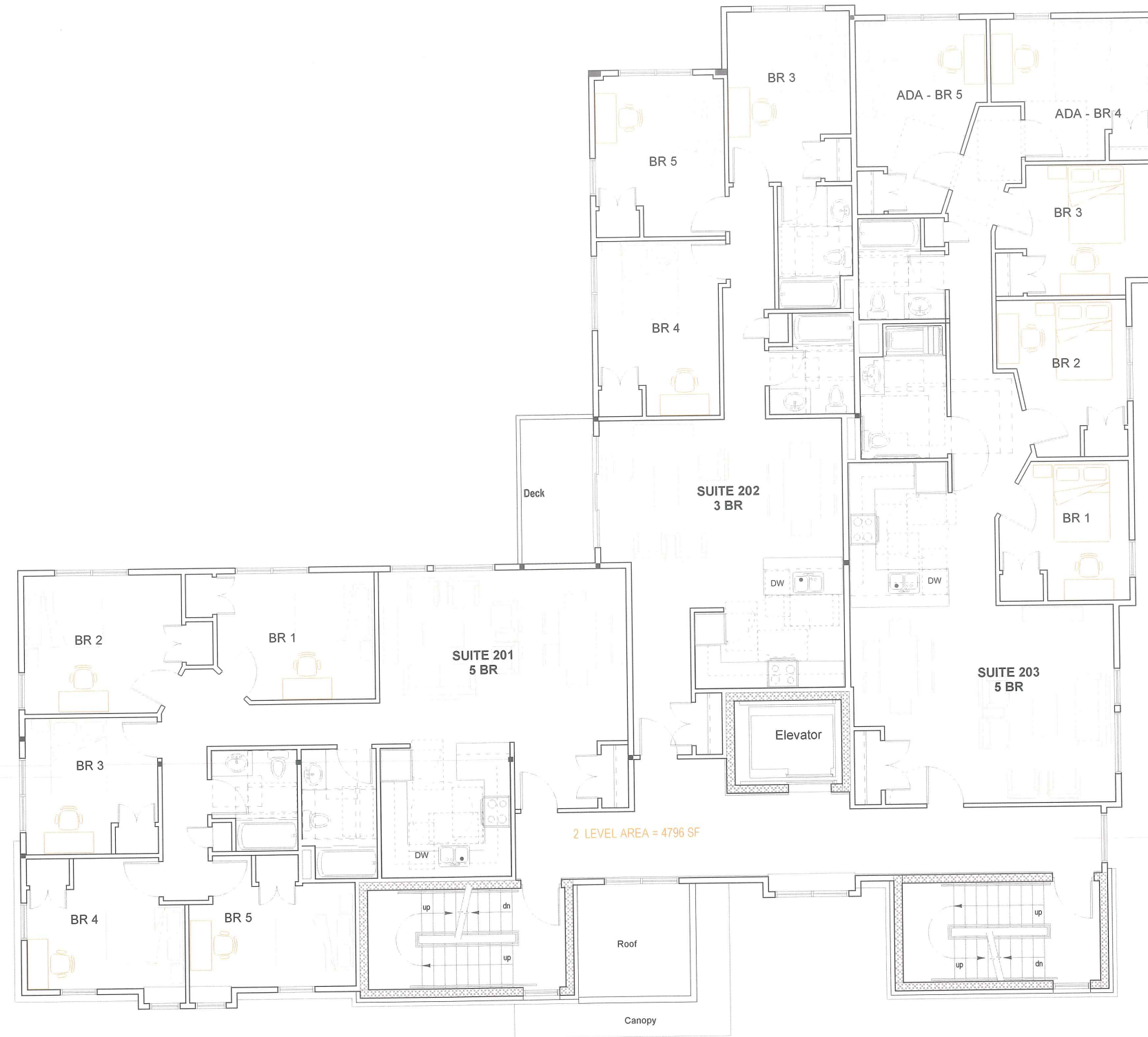
December 24, 2008



NORTH



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

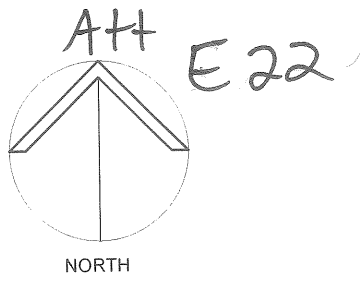


Second Floor Plan A 1.3

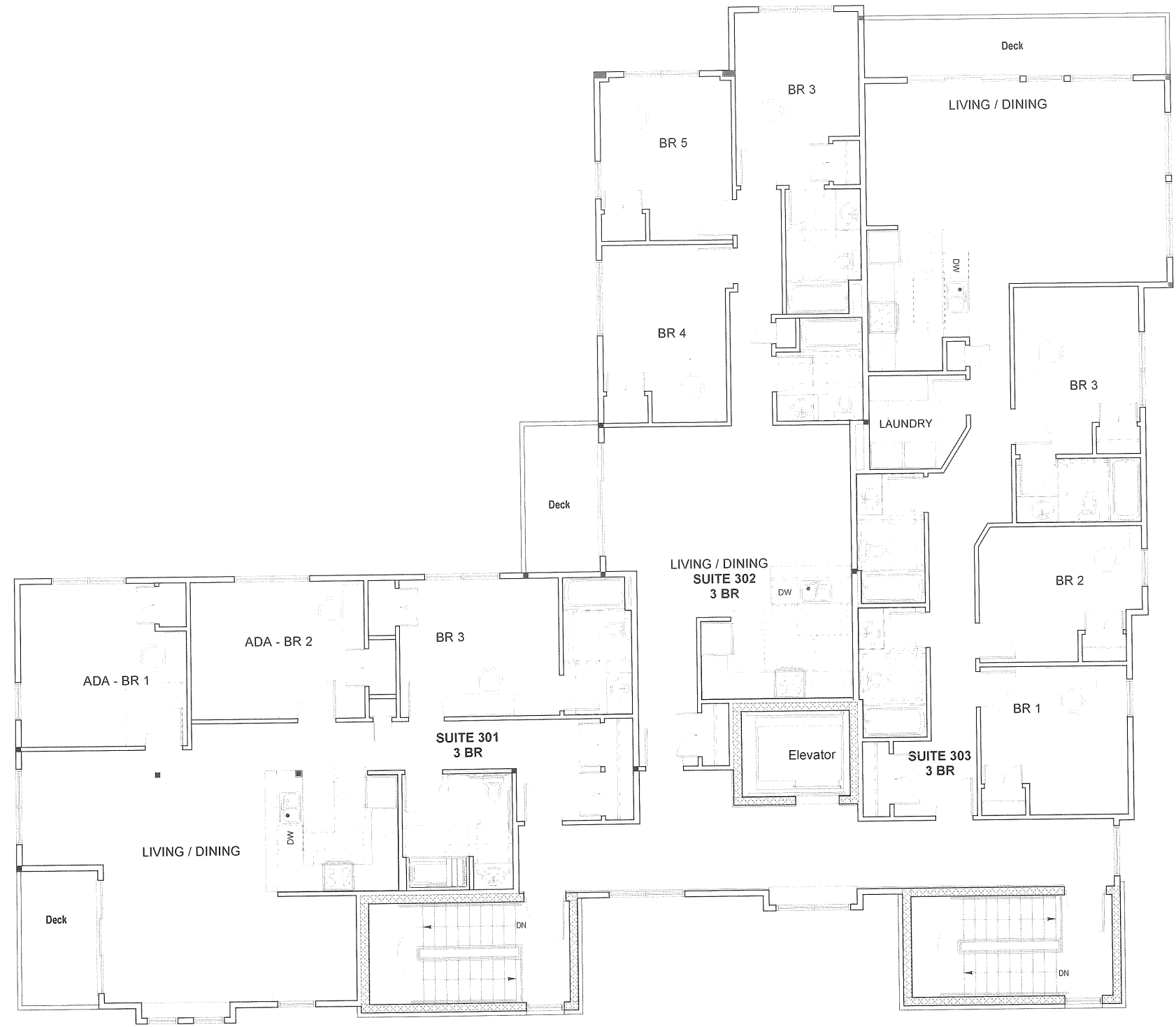
Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

December 24, 2008



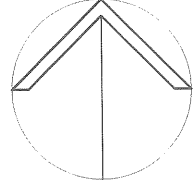
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**Third Floor Plan
A 1.4**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

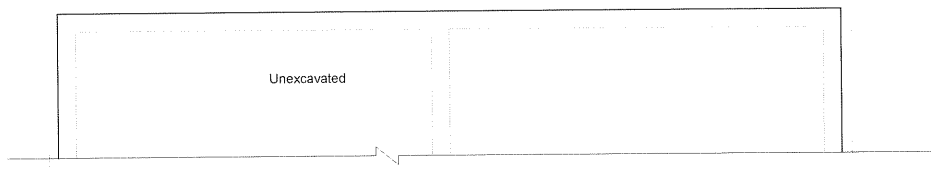
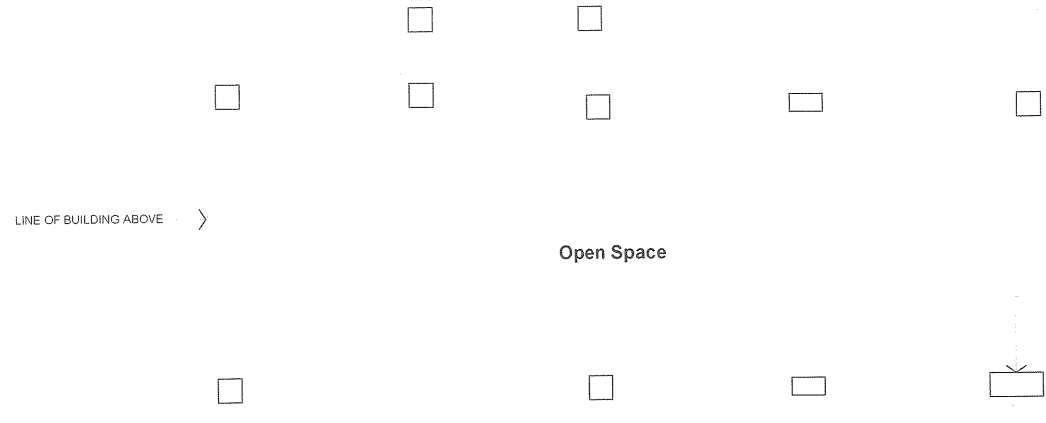
Winton Scott Architects
December 24, 2008



NORTH



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



Unexcavated

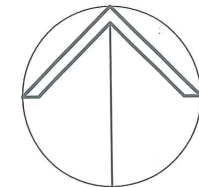
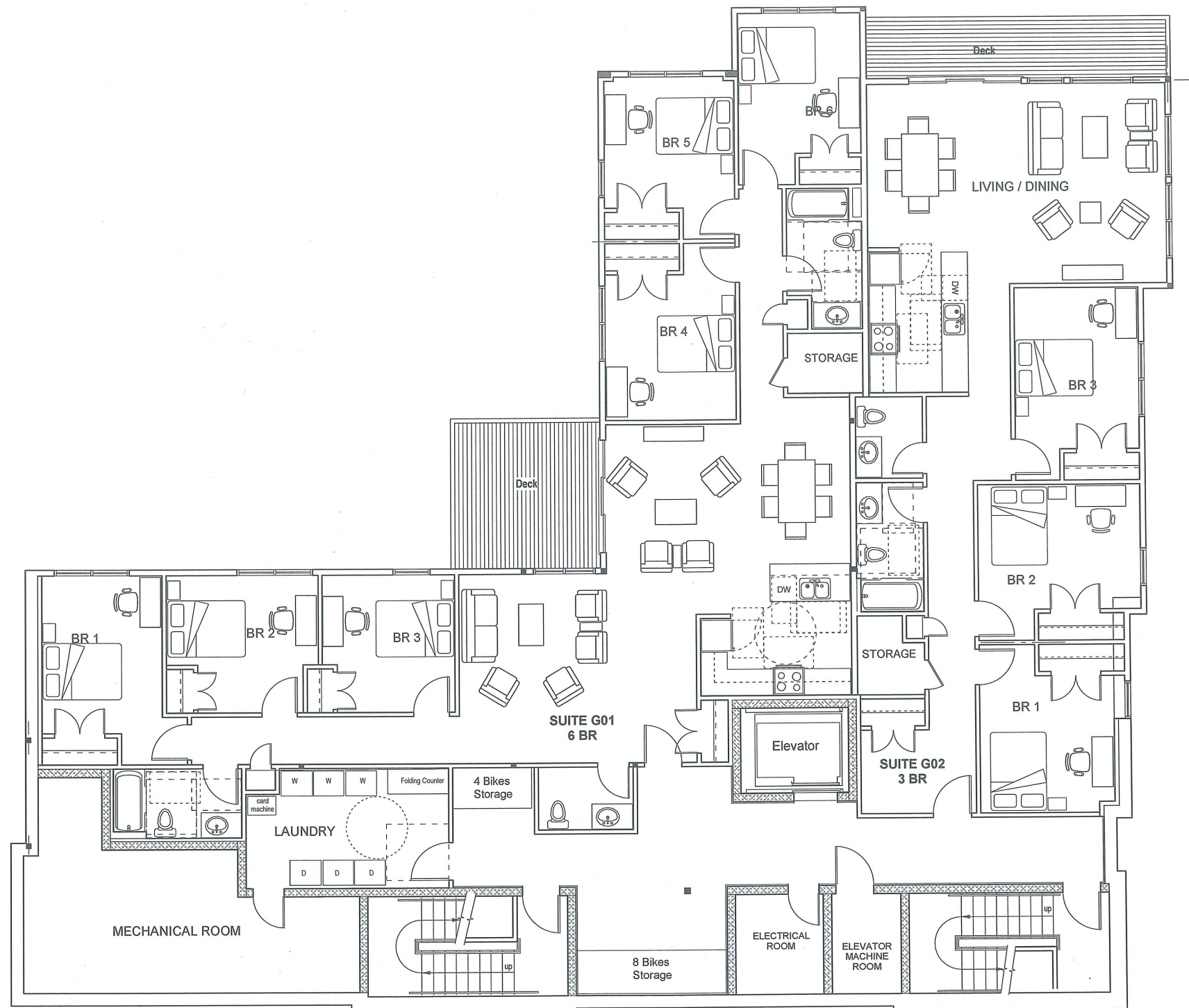
Crawlspace Plan

A 1.5

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

December 24, 2008



NORTH



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

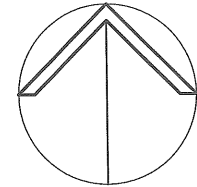
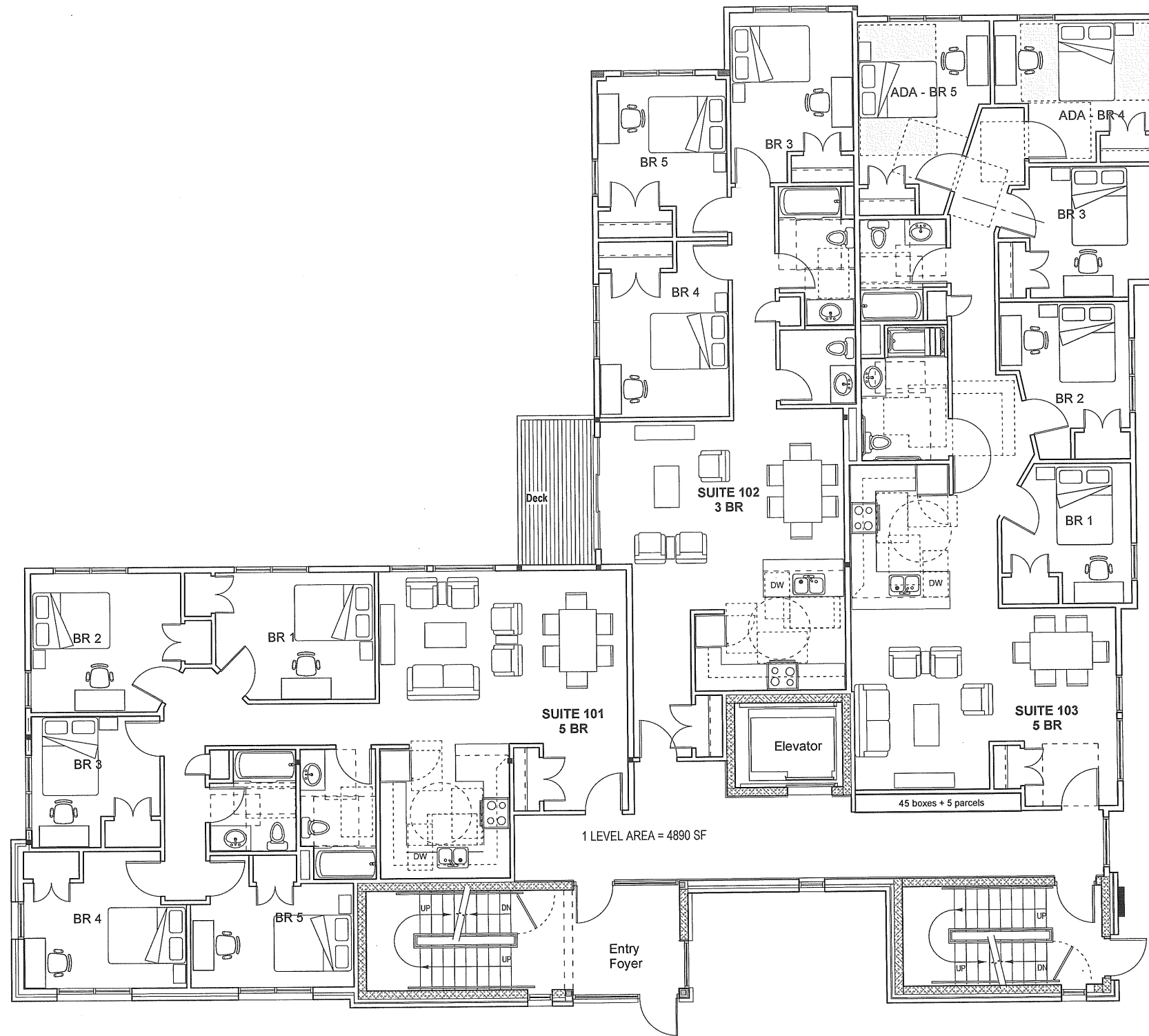
*Barbara
Barhydt*

**Ground Floor Plan
A 1.1**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects

January 12, 2008



NORTH



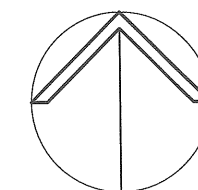
SCALE: 3/16" = 1' - 0"

**First Floor Plan
A 1.2**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects

January 12, 2008



NORTH

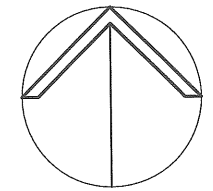
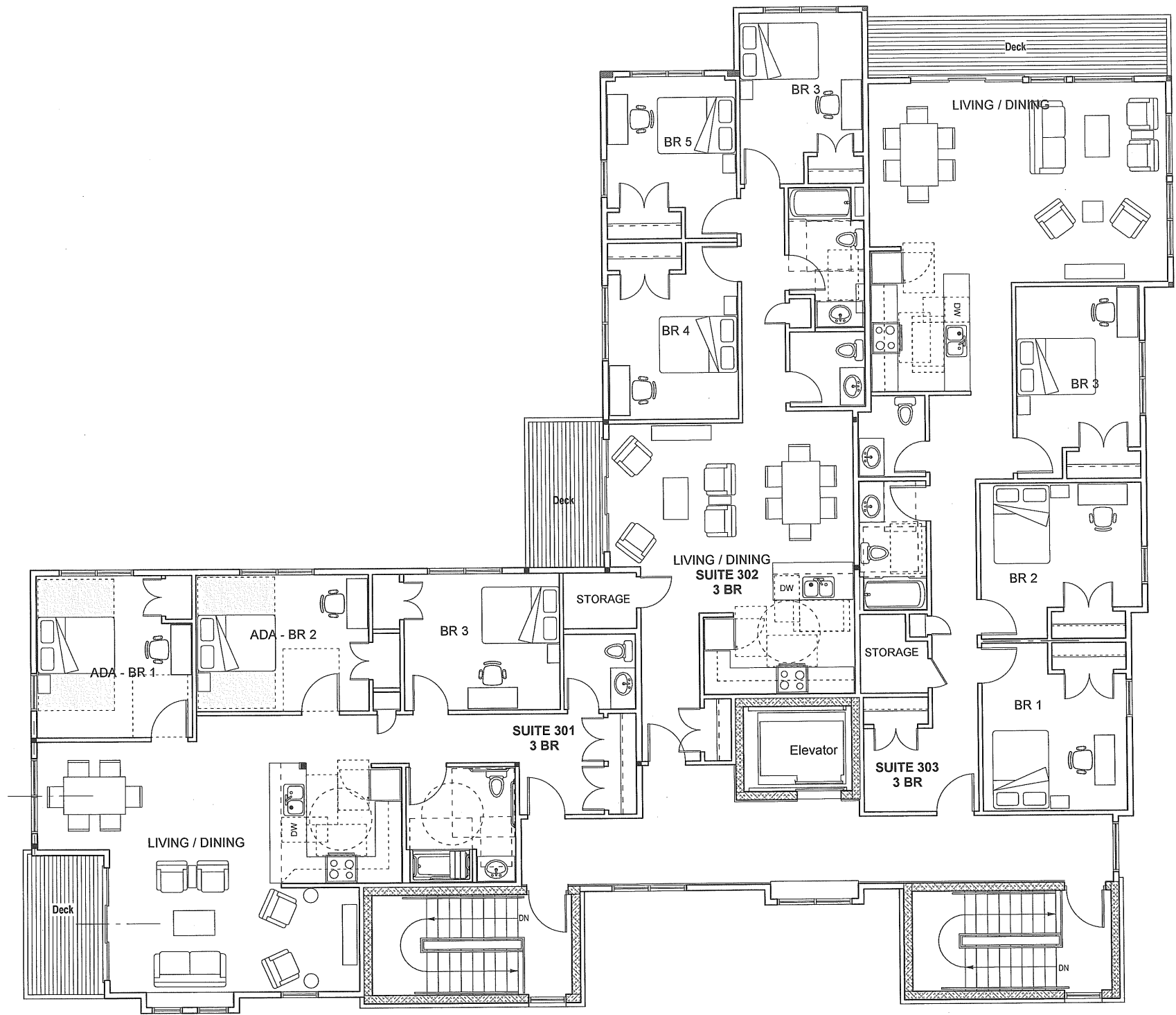


SCALE: 3/16" = 1' - 0"

**Second Floor Plan
A 1.3**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects
January 12, 2008



NORTH



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

**Third Floor Plan
A 1.4**

**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects

January 12, 2008

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

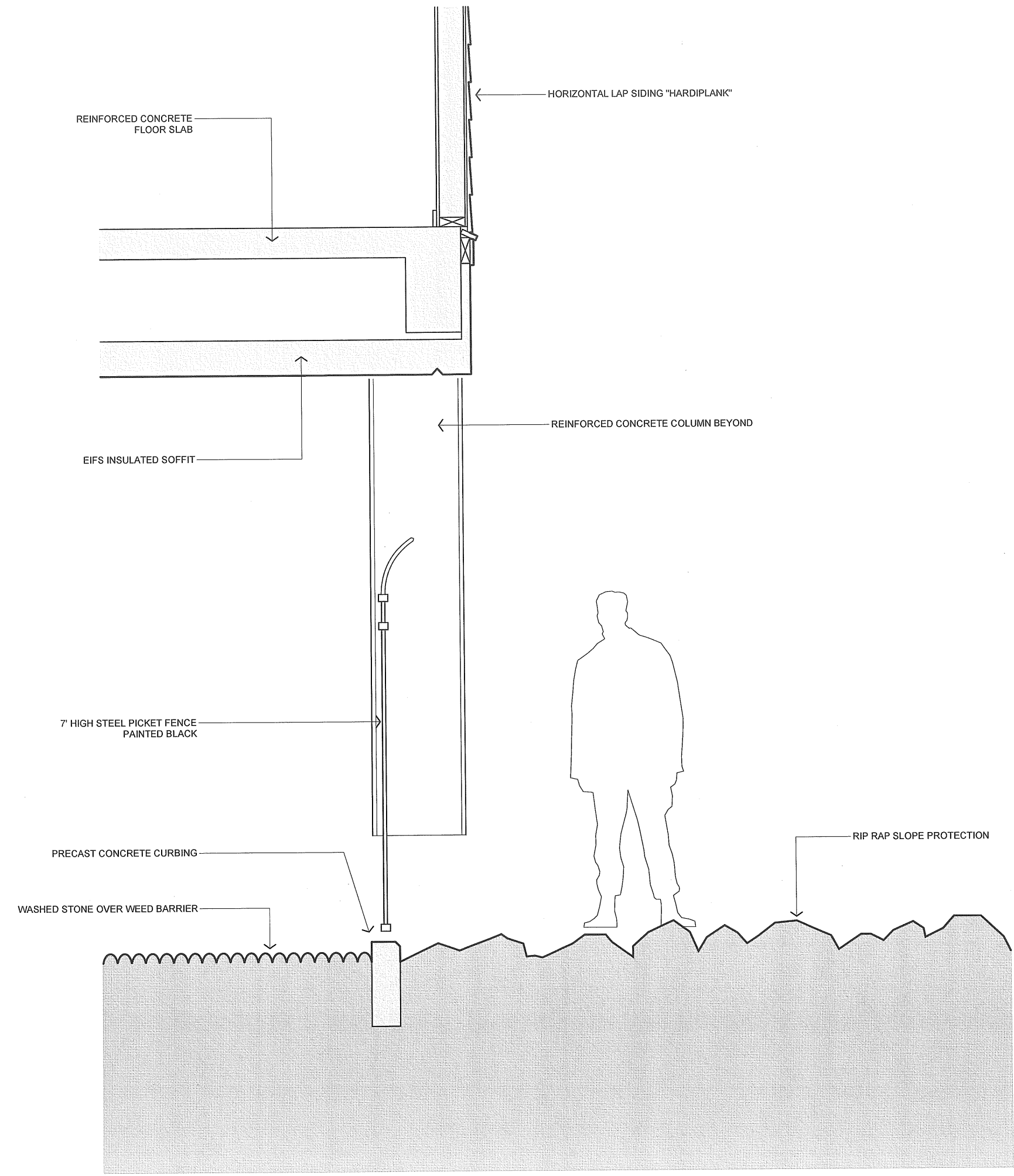
Winton Scott Architects

January 19, 2009

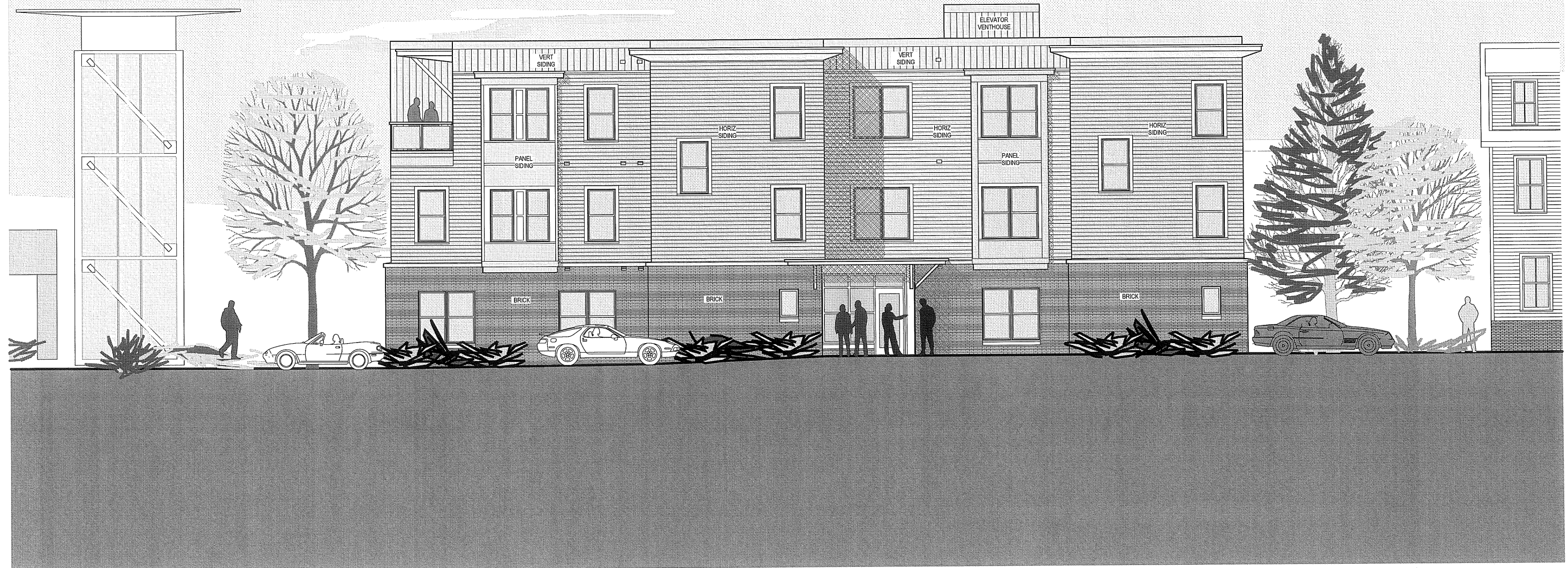
A 3.1

Understory Enclosure Fence

1" = 1' - 0"



CRESCENT STREET ELEVATION - SOUTH

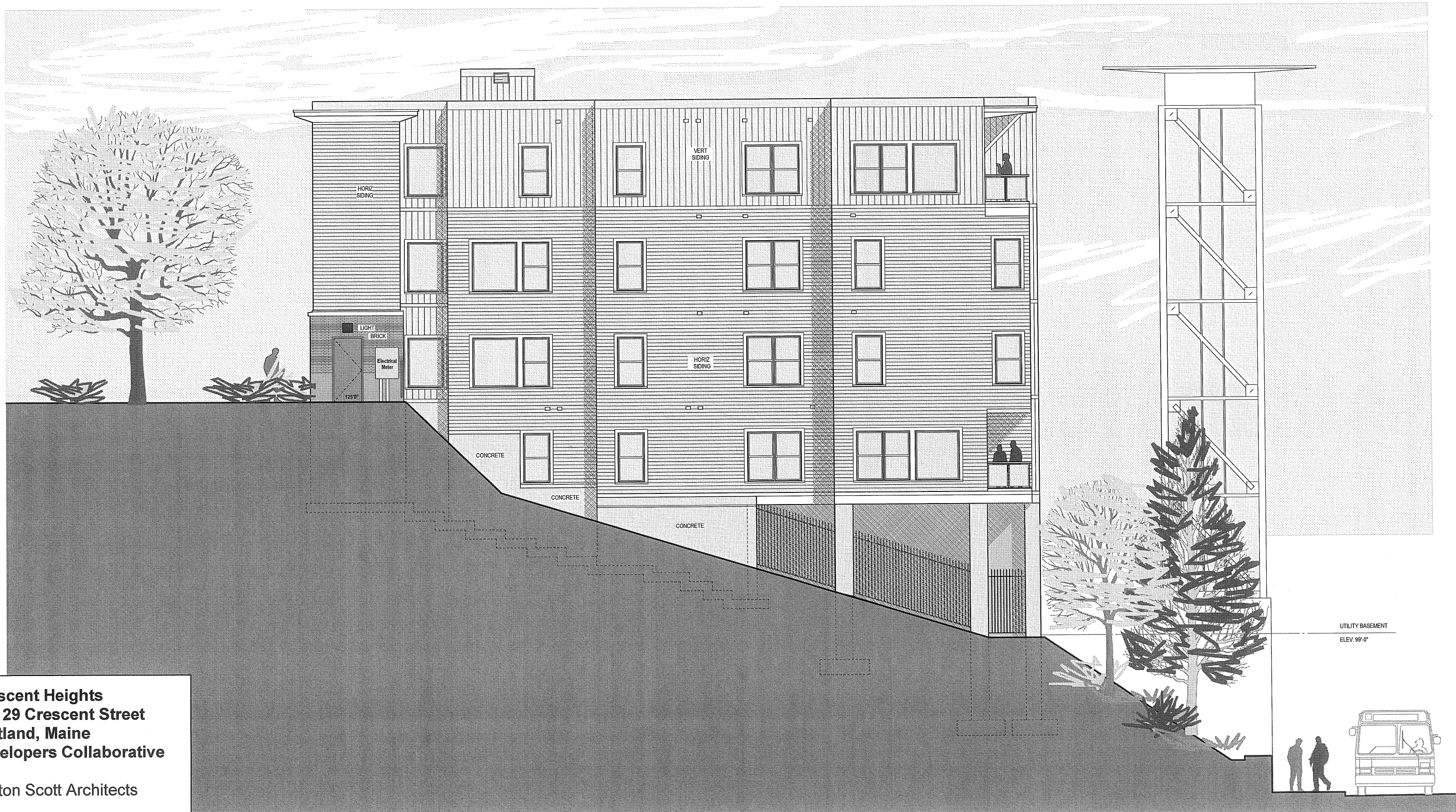


**Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative**

Winton Scott Architects

January 19, 2009

EAST ELEVATION



Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

January 19, 2009

A 2.2

NORTH ELEVATION



Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

January 19, 2009

WEST ELEVATION



Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative

Winton Scott Architects

January 19, 2009



C R E S C E N T H E I G H T S
C O N G R E S S S T R E E T E L E V A T I O N

Developers Collaborative / Winton Scott Architects



CRESCENT HEIGHTS
CRESCENT STREET ELEVATION

Developers Collaborative / Winton Scott Architects

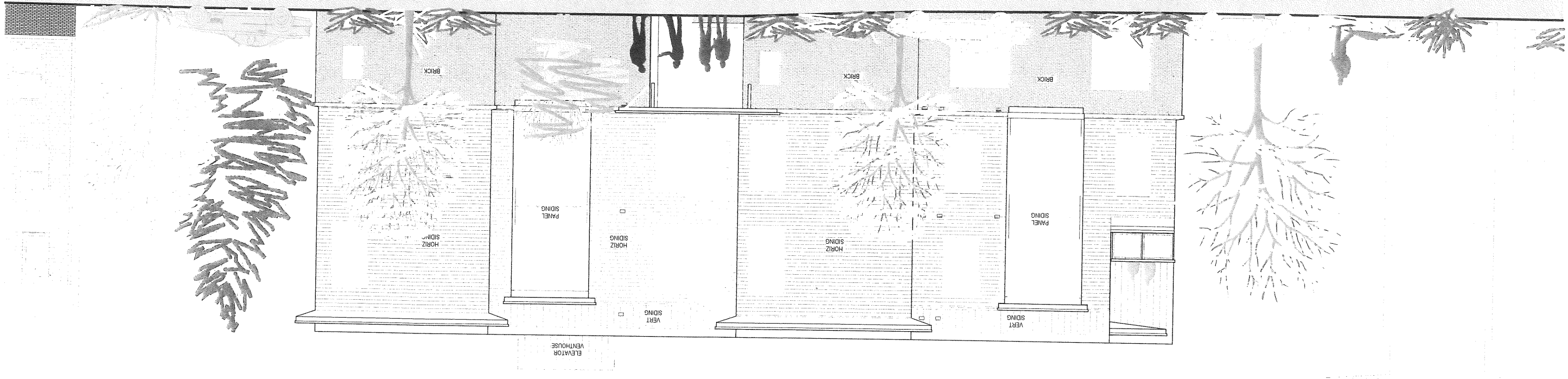




LEASE
MALONE
772-2422

Att E 15

CRESCENT STREET ELEVATION - SOUTH



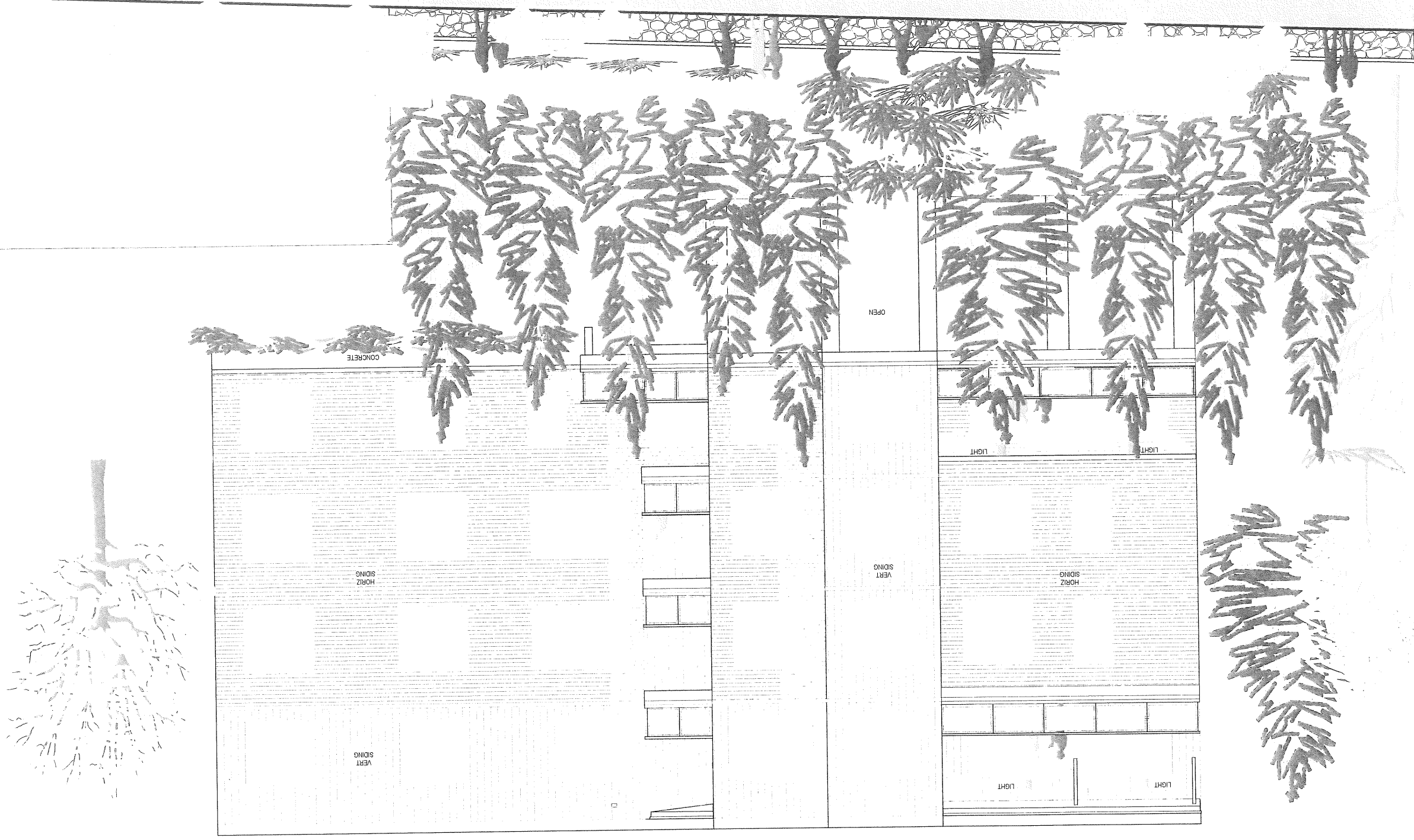
A 2.1

December 30, 2008

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative
Winton Scott Architects

A4 E 17

NORTH ELEVATION

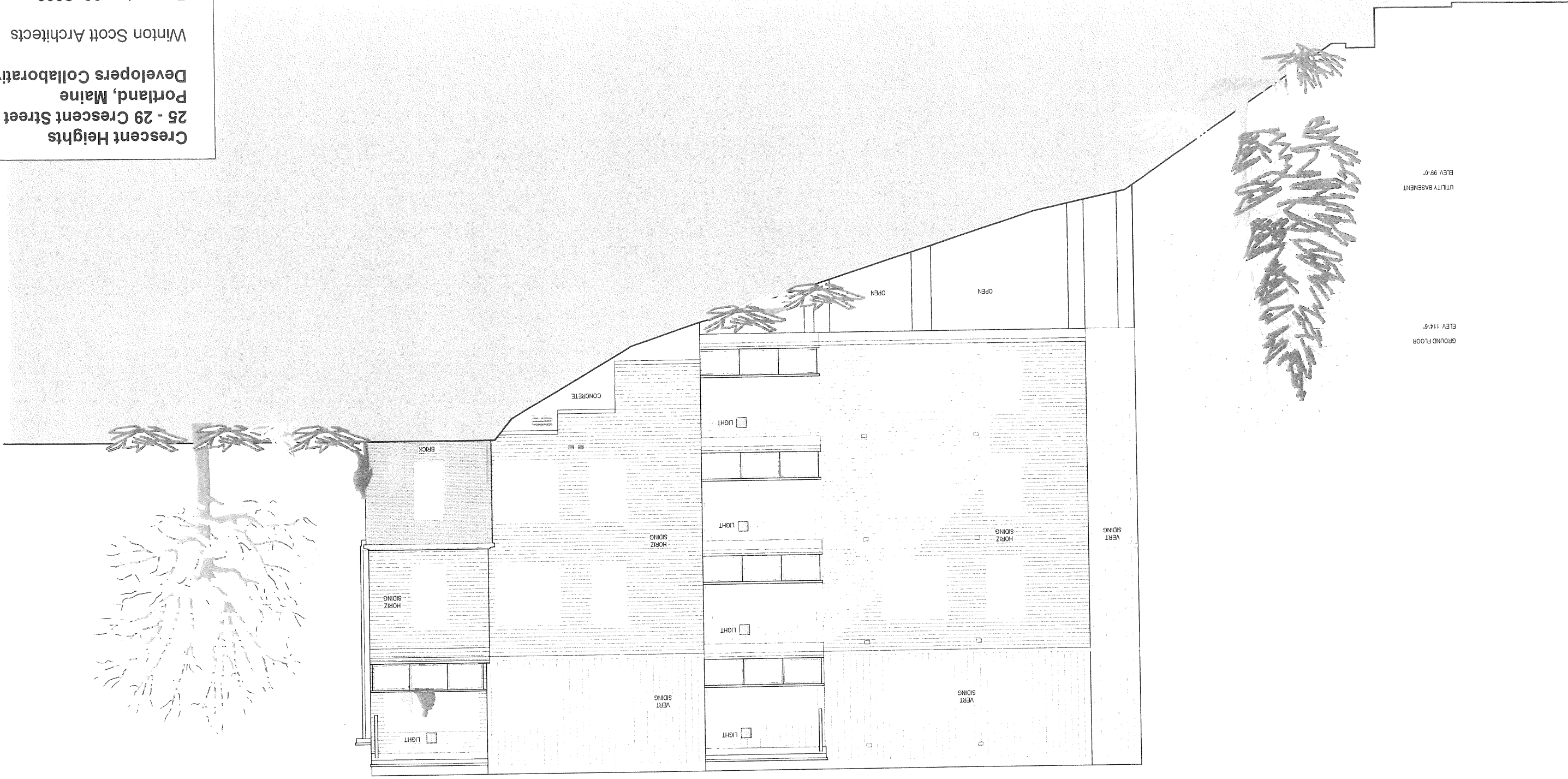


Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative
Winton Scott Architects
December 30, 2008

A 2.3

44 E 18

WEST ELEVATION

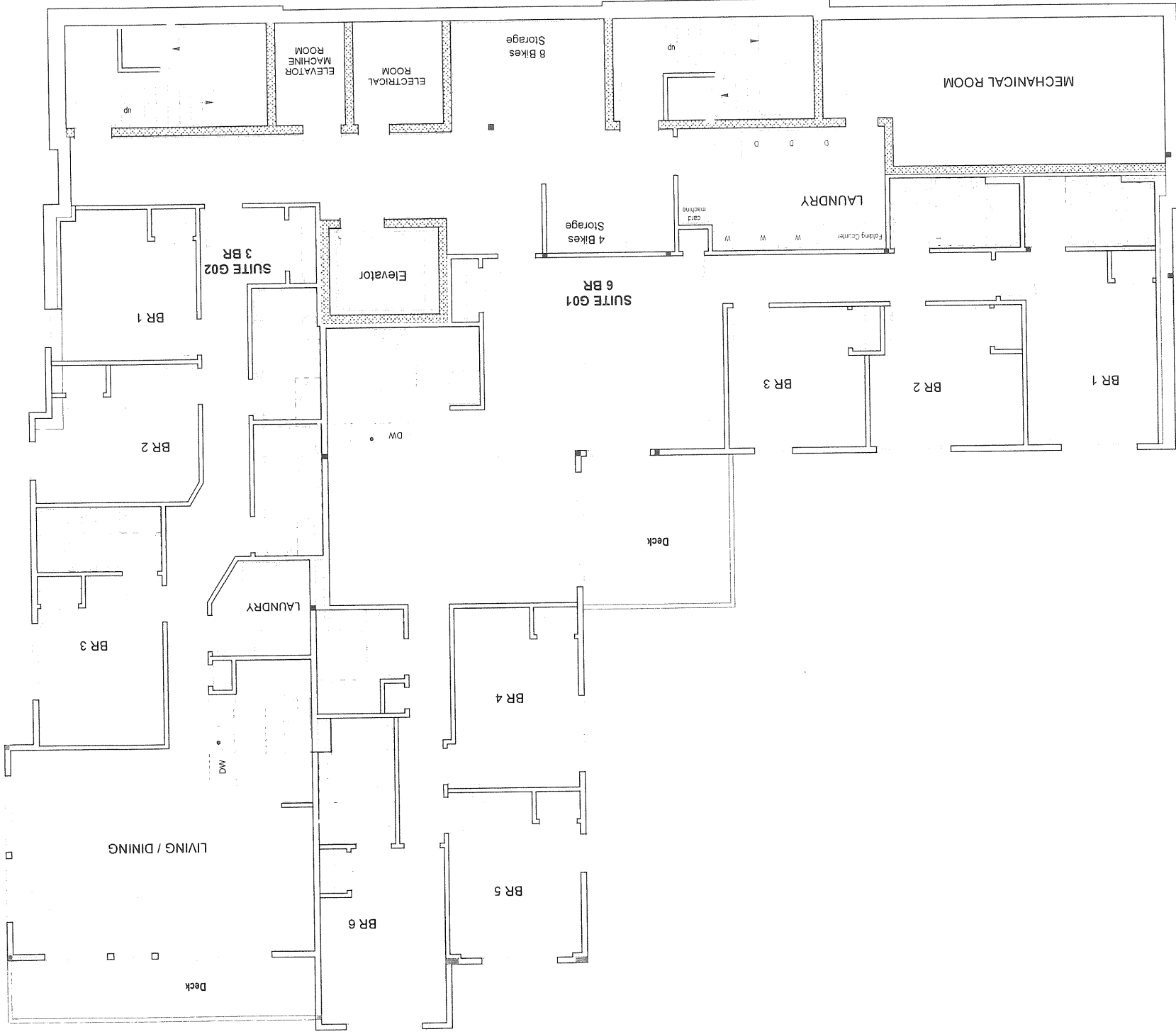


Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative
Winton Scott Architects
December 30, 2008

A 2.4

Crescent Heights
 25 - 29 Crescent Street
 Portland, Maine
 Developers Collaborative
 Winton Scott Architects
 December 24, 2008

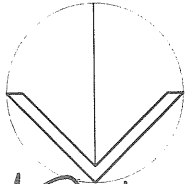
Ground Floor Plan
 A 1.1



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



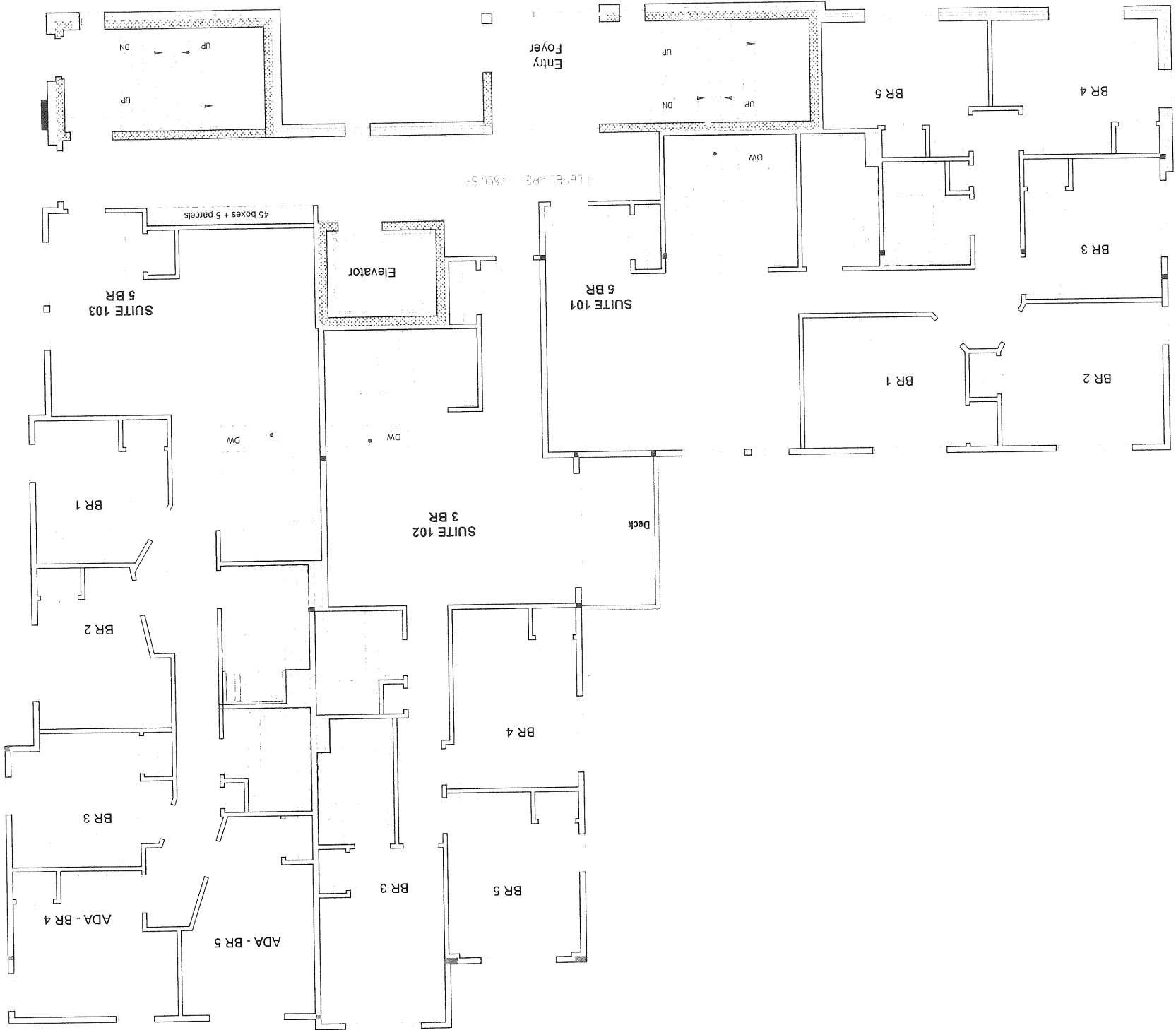
NORTH



44 E 19

Crescent Heights
 25 - 29 Crescent Street
 Portland, Maine
 Developers Collaborative
 Winton Scott Architects
 December 24, 2008

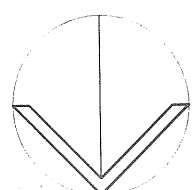
First Floor Plan
 A 1.2



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



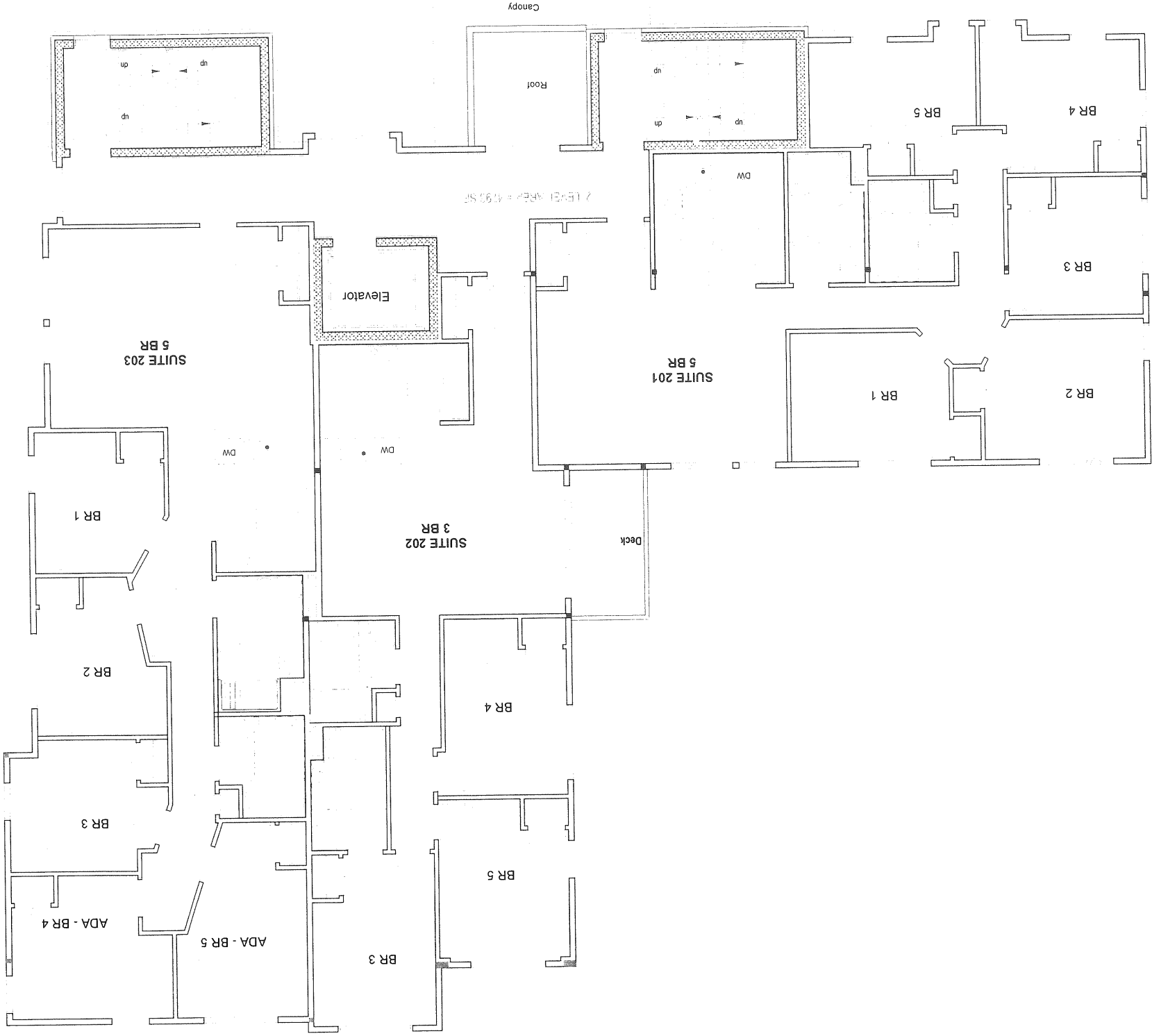
NORTH



44 E 20

Crescent Heights
 25 - 29 Crescent Street
 Portland, Maine
 Developers Collaborative
 Winton Scott Architects
 December 24, 2008

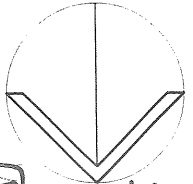
Second Floor Plan
 A 1.3



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



NORTH



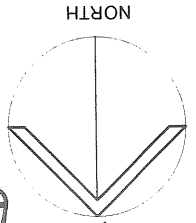
AH E 21

Crescent Heights
 25 - 29 Crescent Street
 Portland, Maine
 Developers Collaborative
 Winton Scott Architects
 December 24, 2008

Third Floor Plan
 A 1.4



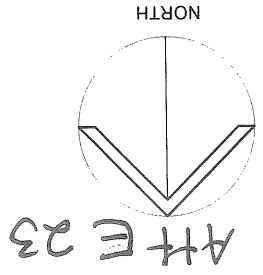
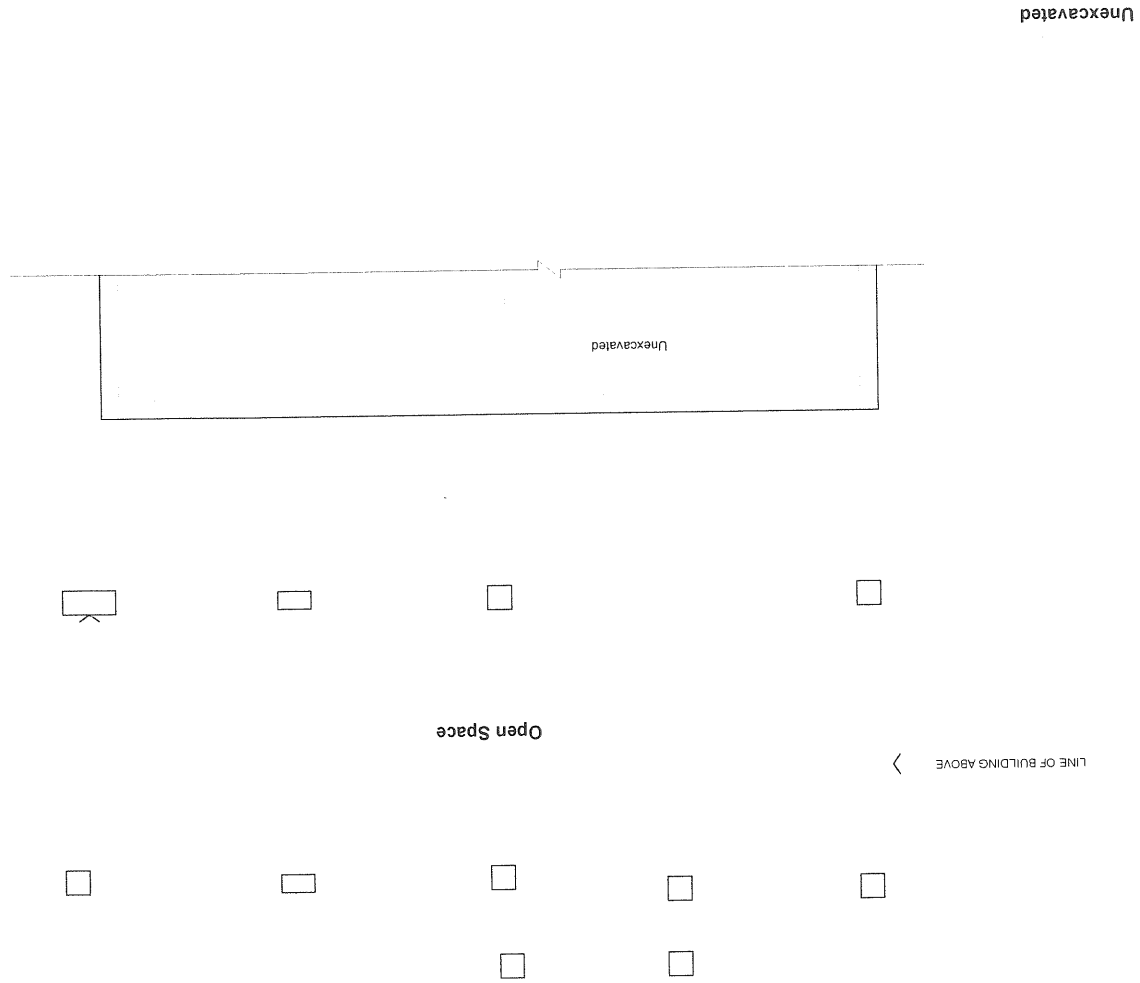
SCALE: 3/16" = 1'-0"



Att E 22

Crescent Heights
25 - 29 Crescent Street
Portland, Maine
Developers Collaborative
Winton Scott Architects
December 24, 2008

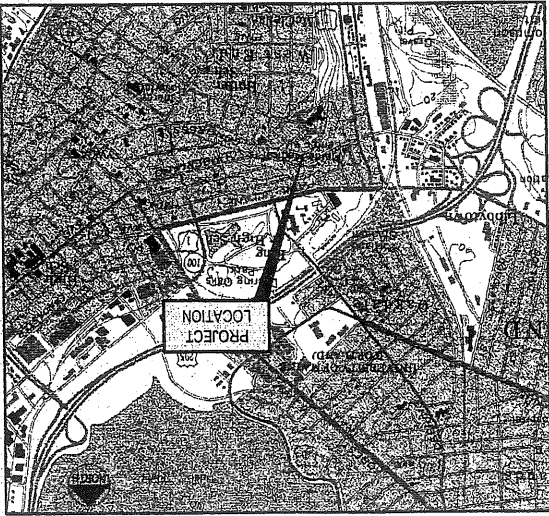
Crawlspace Plan
A 1.5



SCALE: 3/16" = 1'-0"
0 4 8 16

ATT E 23

Att E1



LOCATION MAP
N.T.S.

SITE DEVELOPMENT PLANS FOR CRESCENT HEIGHTS A 44-BED LODGING HOUSE #29 + #25 CRESCENT STREET PORTLAND, MAINE

PROJECT PARCEL SITE
ZONING: RESIDENTIAL - 6
PORTLAND TAX ASSESSOR'S MAP & LOT NUMBERS:
MAP BLOCK F 53
LOTS 4,5,6,14,15, AND PORTION OF LOT 3 6

OWNER/APPLICANT:
CRESCENT HEIGHTS LLC
17 CHESTNUT STREET
PORTLAND, MAINE 04101
TEL. 207.772.7873
FAX 207.253.5183

INDEX

C-1	COVER SHEET
C-2	GENERAL NOTES AND LEGEND
C-3	BOUNDARY SURVEY
C-4	EXISTING CONDITIONS
C-5	MMC RETAINING WALL TIEBACKS
C-5A	SITE CROSS-SECTION
C-6	DEMOLITION PHASE EROSION CONTROL PLAN
C-7	DEMOLITION PLAN
C-8	SITE LAYOUT PLAN
C-9	GRADING AND DRAINAGE PLAN
C-10	UTILITY PLAN
C-11	LANDSCAPE PLAN
C-12	LANDSCAPE AND SITE FURNISHINGS DETAILS
C-13A	SITE AND UTILITY DETAILS
C-13B	SITE AND UTILITY DETAILS
C-14	EROSION & SEDIMENT CONTROL DETAILS
C-15	EROSION & SEDIMENT CONTROL NOTES
NOT INCLUDED WITH CURRENT SUBMISSION SET	

UTILITIES

WATER
ATTN: RICO SPUNARDI
PORTLAND WATER DISTRICT
22 DOUGLAS STREET
P.O. BOX 3533
PORTLAND, MAINE 04104
207.761.8310
SEWER
CITY OF PORTLAND
PUBLIC WORKS ENGINEERING DEPT.
65 PORTLAND STREET
PORTLAND, MAINE 04102
207.874.8840
POWER
ATTN: PAUL DUPERRÉ
CENTRAL MAINE POWER
162 CANCO ROAD
PORTLAND, MAINE 04103
207.791.1023
TELEPHONE
ATTN: SUE SERRETTE
FAIRPOINT COMMUNICATIONS
ONE DAVIS FARM ROAD
PORTLAND, MAINE 04103
207.797.1842
NATURAL GAS
ATTN: MIKE SMITH
NORTHERN UTILITIES
1075 FOREST AVENUE
PORTLAND, MAINE 04103
207.797.8002 EXT. 6220

PERMITS

LOCAL
GOVERNING BODY
CITY OF PORTLAND PLANNING AUTHORITY
CITY HALL, 389 CONGRESS STREET 207.874.8719
PRELIMINARY SUBMISSION 09.15.08
STATUS
TO BE FILED PRIOR TO CONSTRUCTION
BUILDING PERMIT
CITY OF PORTLAND CODE ENFORCEMENT OFFICE
CITY HALL, 389 CONGRESS STREET 207.874.8693
TO BE FILED PRIOR TO CONSTRUCTION
STREET OPENING PERMIT
CITY OF PORTLAND PUBLIC WORKS ENFORCEMENT
ENGINEERING DEPARTMENT
55 PORTLAND STREET 207.874.8801
TO BE FILED PRIOR TO CONSTRUCTION

PREPARED BY

CIVIL ENGINEER & LANDSCAPE ARCHITECT:
DeLuca-Hoffman Associates, Inc.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, MAINE 04106
207.775.1121

STRUCTURAL ENGINEER:
Becker Structural Engineers
P.O. BOX 4595
PORTLAND, MAINE 04112
207.879.1838
ATTN: PAUL BECKER

ELECTRICAL ENGINEER:
Bartlett Design
942 WASHINGTON STREET
BATH, MAINE 04530
207.443.5447
ATTN: LARRY BARTLETT

ARCHITECT:
Winton Scott Architects
5 MILK STREET
PORTLAND, MAINE 04101
207.774.4811
207.774.3083 FAX
207.774.8801
ATTN: MARK WILCOX

MECHANICAL ENGINEER:
Mechanical Systems Engineers
10 FOREST FALLS DRIVE #10
YARMOUTH, ME 04096
207.846.1444
ATTN: ERIC PFLUGRADT

I HEREBY ACKNOWLEDGE THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MAINE AND THAT I AM COMPETENT TO PREPARE THIS DOCUMENT.

REV	DATE	DESCRIPTION
1	09.19.08	PORTLAND 2008 DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF
2	09.24.08	REVISED SUBMISSION TO CITY OF PORTLAND
3	11.18.08	SUBMITTED TO CITY OF PORTLAND
4	12.19.08	RESUBMISSION TO CITY OF PORTLAND

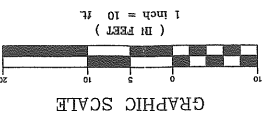
REVISED: 11/18/08
SUBMITTED TO CITY OF PORTLAND
REVISED SUBMISSION TO CITY OF PORTLAND
2008 DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF
PORTLAND
P.E. STEPHEN BUSHNETZ
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE
NO. 289

PROJECT: CRESCENT HEIGHTS
SHEET TITLE: COVER SHEET
CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DRAWN: DATE: SEPT 2008
DESIGNED: SFB SCALE: AS NOTED
CHECKED: SFB JOB NO. 2827
FILE NAME: 2827-COV
SHEET: C-1

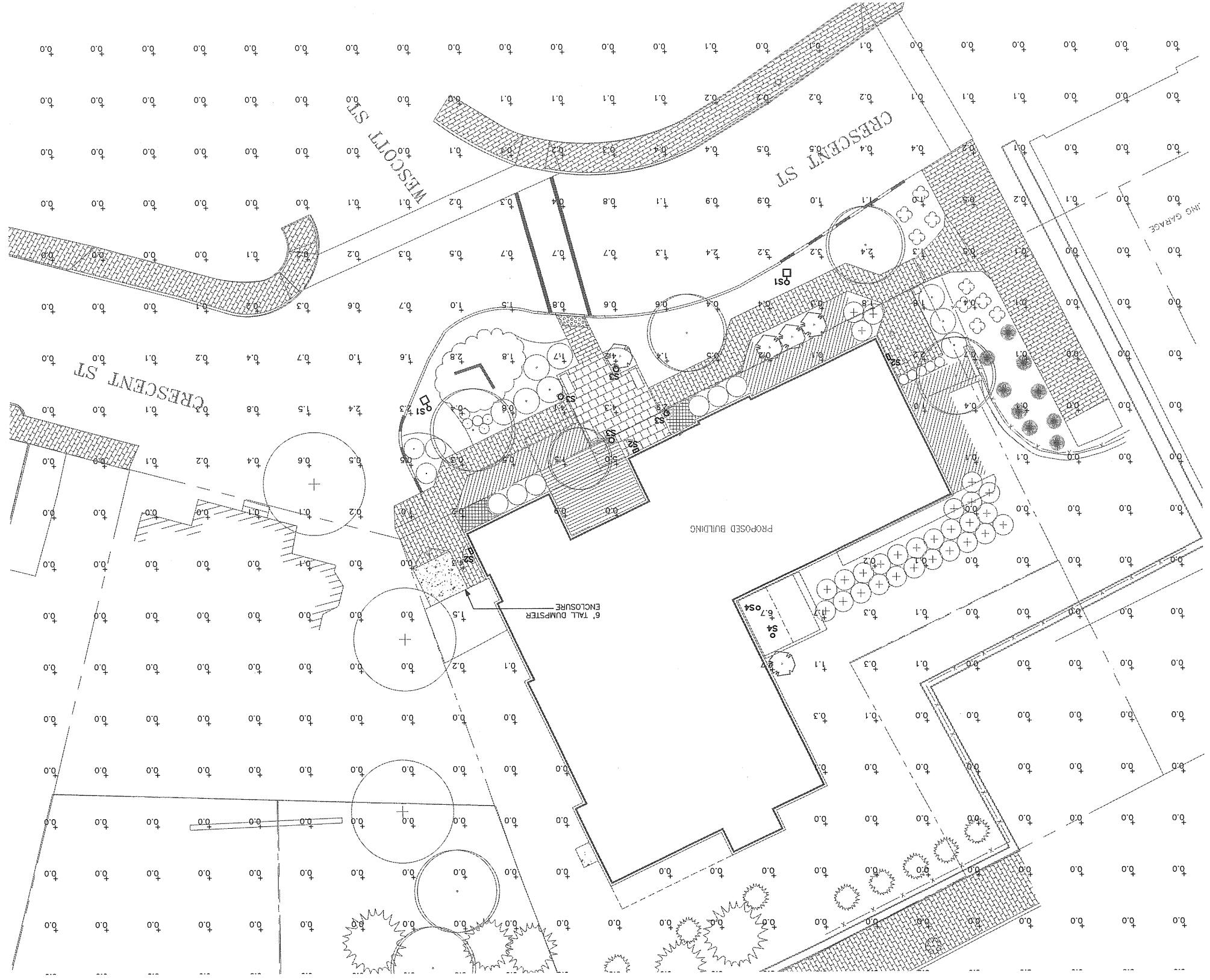
DELUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

PROJECT: CRESCENT HEIGHTS		SHEET TITLE: PHOTOMETRIC LIGHTING PLAN		CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	
DRAWN: JLC DATE: DEC 2008		DESIGNED: JLC SCALE: 1" = 10'		CHECKED: LEB JOB NO: 2827	
FILE NAME: 2827-SP		SHEET: E-001		LIC. #1429	
PROJECT: DALUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 6 SOUTH PORTLAND, ME 04106 WWW.DALUCA-HOFFMAN.COM		PROJECT: CRESCENT HEIGHTS		PROJECT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	

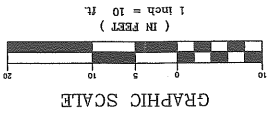


FOR REVIEW ONLY - NOT FOR CONSTRUCTION

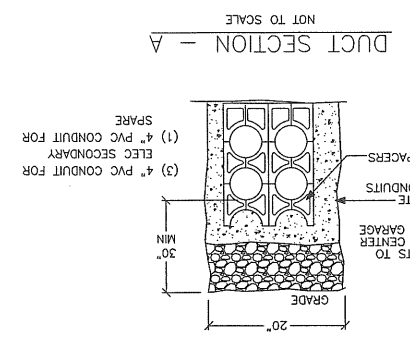
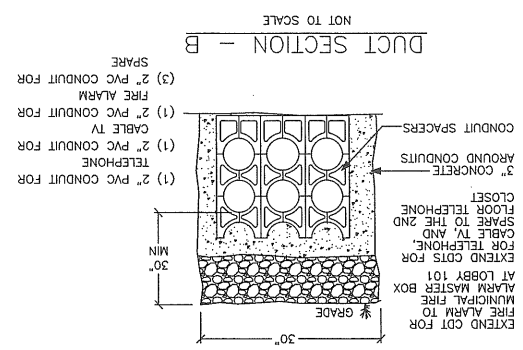
NOTES:
 1. CALCULATED VALUES REPRESENT MAINTAINED FOOTCANDLE LEVELS AT GRADE.
 2. FIXTURE TYPES ARE AS FOLLOWS:
 TYPE S1 - EXISTING POLE MOUNTED LIGHT
 TYPE S2 - GIRTH LIGHTING, SUNDOWNER SERIES, 32W COMPACT FLUORESCENT, 2400 LUMENS, 77 LF
 TYPE S3 - KIM LIGHTING, HIGH PERFORMANCE BOLLARD, 32W COMPACT FLUORESCENT, 2400 LUMENS, 77 LF
 TYPE S4 - USA ILLUMINATIONS, SOLARS SERIES, 32W COMPACT FLUORESCENT, 2400 LUMENS, 77 LF
 TYPE S5 - FLUORESCENT, 2400 LUMENS, 77 LF
 3. THE TYPE S2 LIGHTS LOCATED ON THE SOUTHWEST SIDE AND ON THE FRONT OF THE BUILDING ARE MOUNTED AT 12 FOOT ABOVE GRADE. THE TYPE S3 LIGHT LOCATED ON THE NORTHEAST SIDE OF THE BUILDING IS MOUNTED AT 9 FOOT ABOVE GRADE.



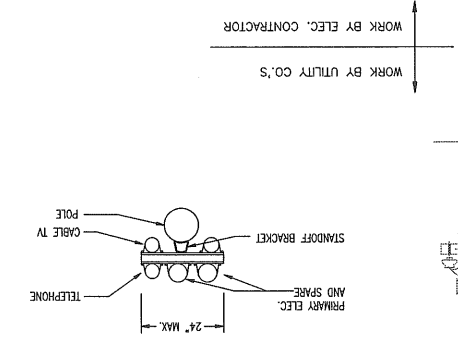
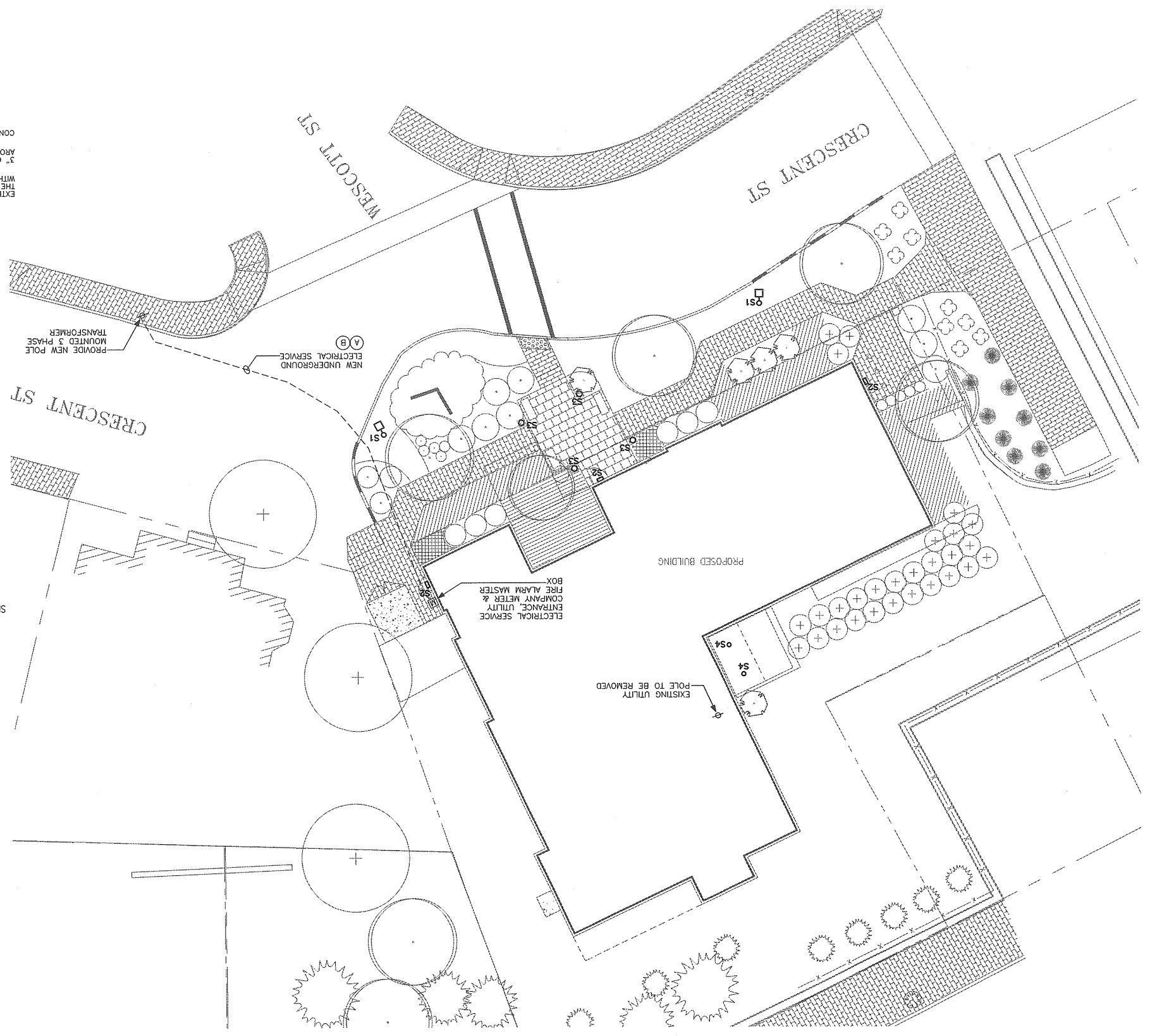
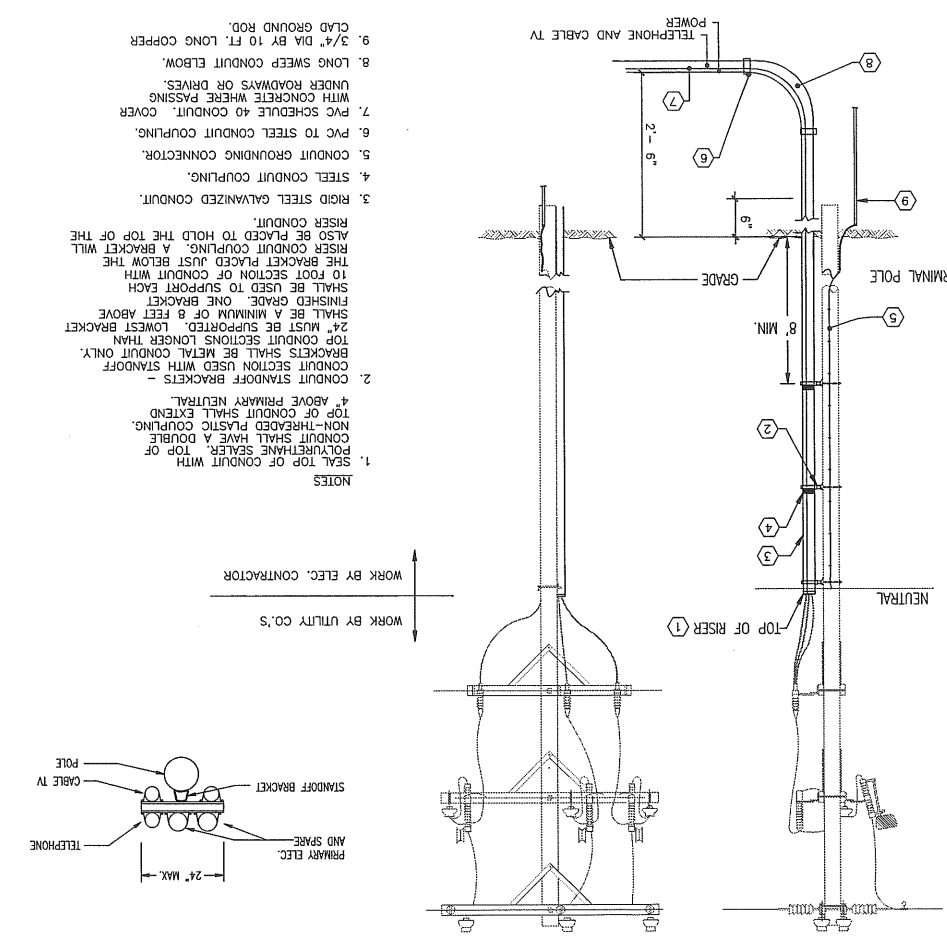
SHEET		PROJECT	
E-002		CRESCENT HEIGHTS	
DRAWN: JLC DATE: DEC 2008		SHEET TITLE	
CHECKED: LEB JOB NO. 2827		ELECTRICAL SITE PLAN	
DESIGNED: JLC SCALE: 1" = 10'		CLIENT	
FILE NAME: 2827.rvt		CRESCENT HEIGHTS LLC ASSOCIATION WITH	
UC: #1429		DESIGNER	
P.E. STEPHEN BUSHEY		REVISIONS	
REV	DATE	DESCRIPTION	
1	02.23.09	RESUBMISSION TO CITY OF PORTLAND	



FOR REVIEW ONLY - NOT FOR CONSTRUCTION



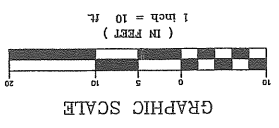
RISER POLE DETAIL
NOT TO SCALE



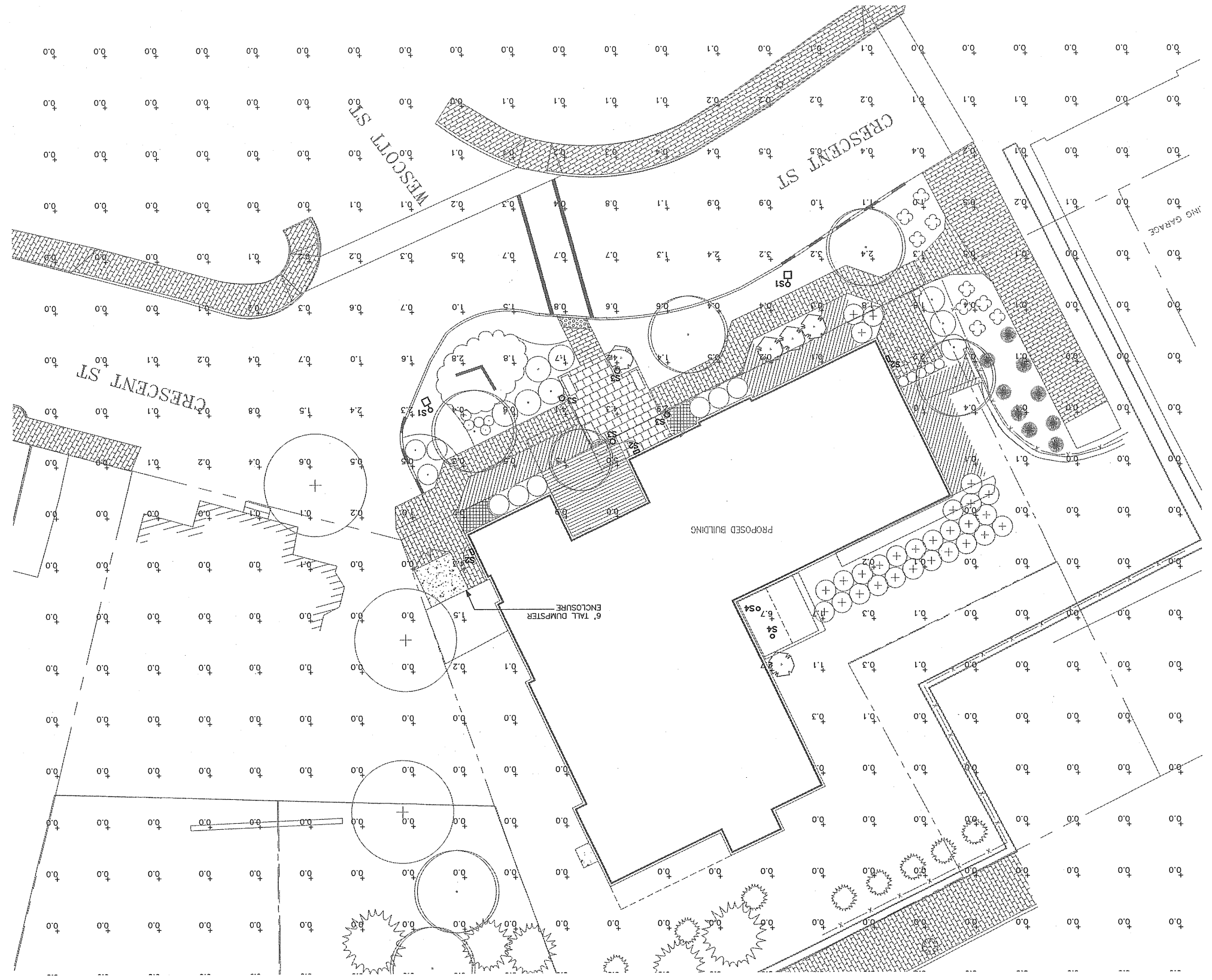
WORK BY ELEC. CONTRACTOR
WORK BY UTILITY CO.'S

PROJECT		CRESCENT HEIGHTS	
CLIENT		CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	
DRAWN		J.L.C. DATE: DEC 2008	
CHECKED		J.L.C. SCALE: 1" = 10'	
FILE NAME		2877-SP	
SHEET		E-001	

REV	DATE	DESCRIPTION
1	02.26.09	RESUBMISSION TO CITY OF PORTLAND
REVISIONS		
P.E. STEPHEN BUSHBY U.C. #1429		



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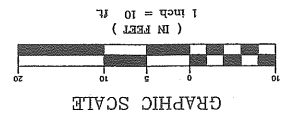
- NOTES:
1. CALCULATED VALUES REPRESENT MAINTAINED FOOTCANDLE LEVELS AT GRADE.
 2. FIXTURE TYPES ARE AS FOLLOWS:
 - TYPE S1 - EXISTING POLE MOUNTED LIGHT
 - TYPE S2 - GITH LIGHTING, SUNDOWNER SERIES, 32W COMPACT FLUORESCENT, 2400 LUMENS, 77 LF
 - TYPE S3 - KIM LIGHTING, HIGH PERFORMANCE BOLLARD, 32W COMPACT FLUORESCENT, 2400 LUMENS, 77 LF
 - TYPE S4 - USA ILLUMINATIONS, SOLARIS SERIES, 32W COMPACT FLUORESCENT, 2400 LUMENS, 77 LF
 3. THE TYPE S2 LIGHTS LOCATED ON THE SOUTHWEST SIDE AND ON THE FRONT OF THE BUILDING ARE MOUNTED AT 12 FOOT ABOVE GRADE. THE TYPE S2 LIGHT LOCATED ON THE NORTHEAST SIDE OF THE BUILDING IS MOUNTED AT 9 FOOT ABOVE GRADE.

REV	DATE	DESCRIPTION
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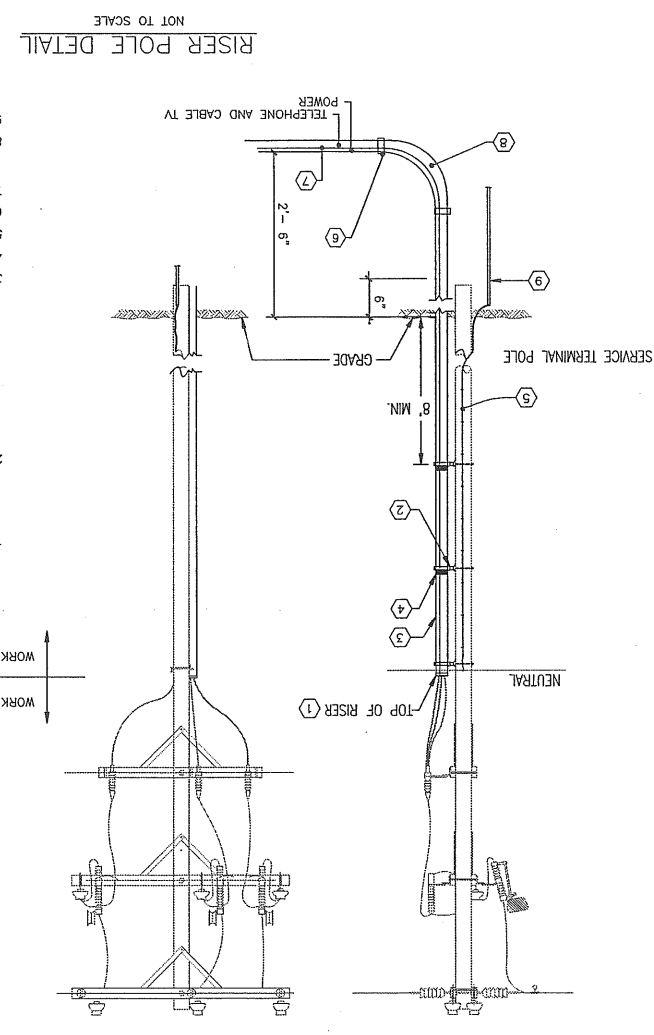
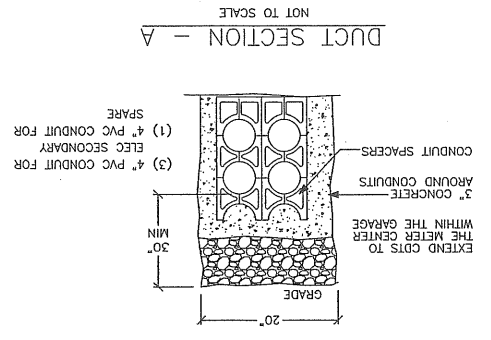
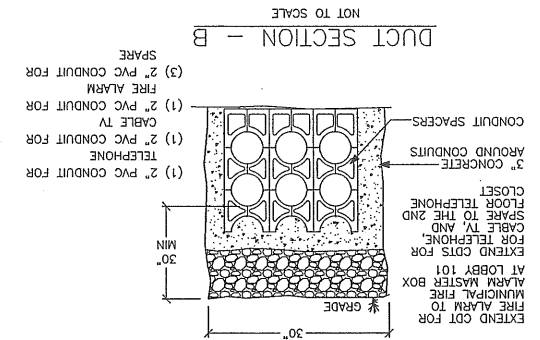
REVISIONS	DATE	DESCRIPTION
UC #1729		P.E. STEPHEN BUSHBY

PROJECT	CRESCENT HEIGHTS
SHEET TITLE	ELECTRICAL SITE PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WANNON SCOTT ARCHITECTS
FILE NAME	2227.SP
CHECKED	LEB JOB NO. 2227
DESIGNED	ALC SCALE 1"=10'
DRAWN	ALC DATE DEC 2008

SHEET	E-002
PROJECT	CRESCENT HEIGHTS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WANNON SCOTT ARCHITECTS
FILE NAME	2227.SP
CHECKED	LEB JOB NO. 2227
DESIGNED	ALC SCALE 1"=10'
DRAWN	ALC DATE DEC 2008



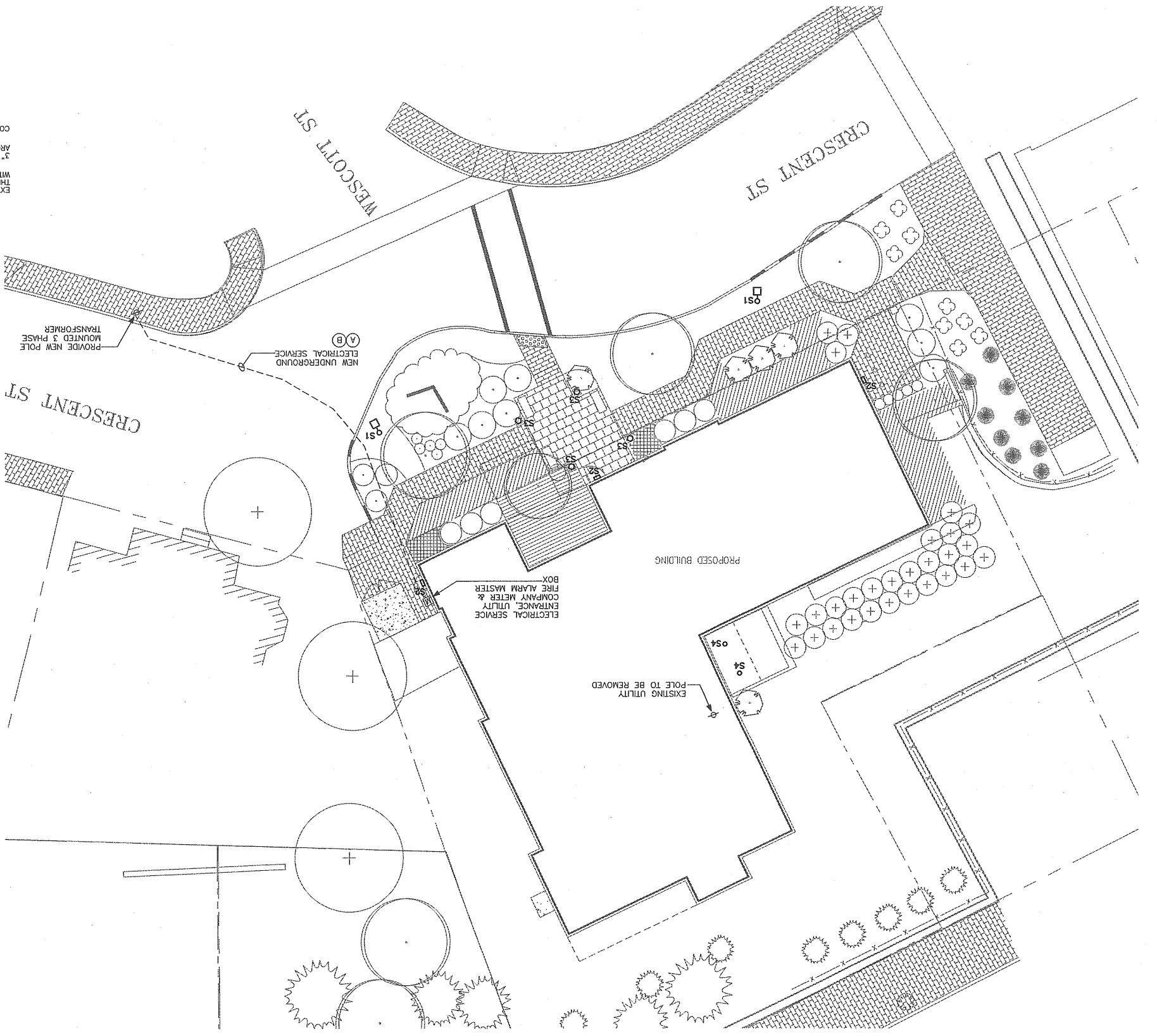
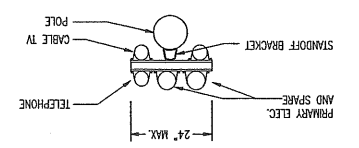
FOR REVIEW ONLY - NOT FOR CONSTRUCTION

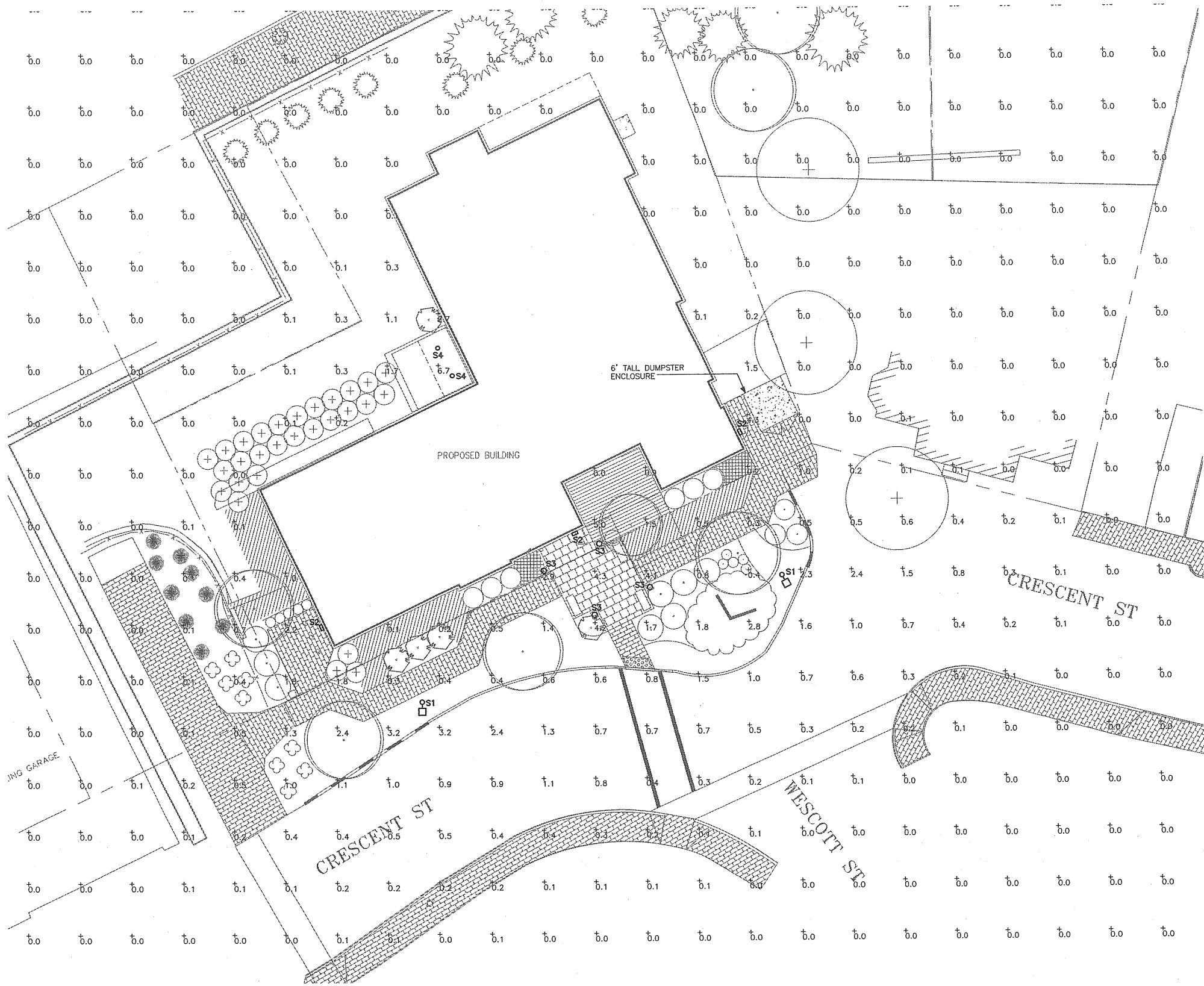


- NOTES
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 5. CONDUIT GROUNDING CONNECTOR.
 6. PVC TO STEEL CONDUIT COUPLING.
 7. PVC SCHEDULE 40 CONDUIT. COVER WITH CONCRETE WHERE PASSING UNDER ROADWAYS OR DRIVES.
 8. LONG SWEEP CONDUIT ELBOW.
 9. 3/4" DIA BY 10 FT. LONG COPPER CLAD GROUND ROD.

WORK BY ELEC. CONTRACTOR

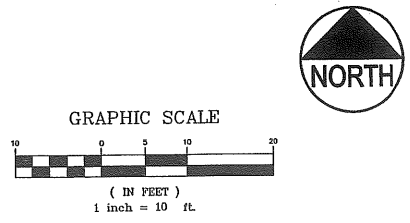
WORK BY UTILITY CO.'S



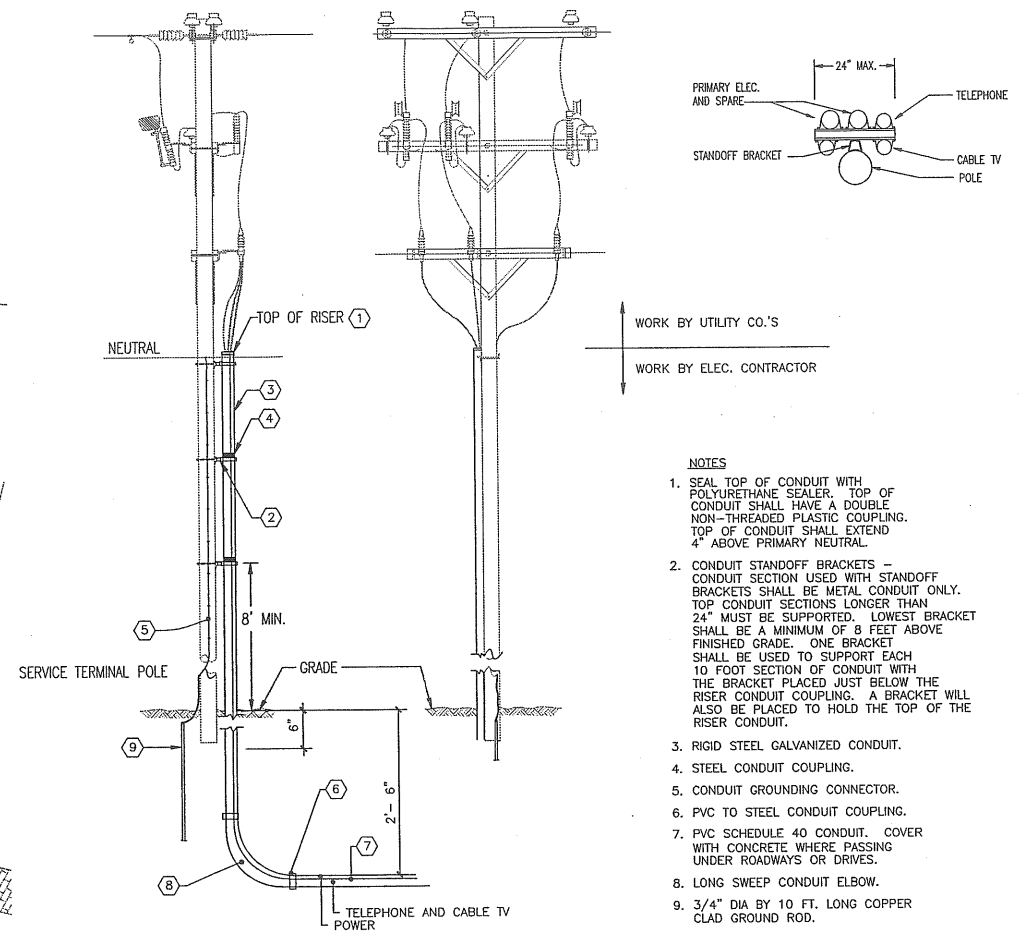
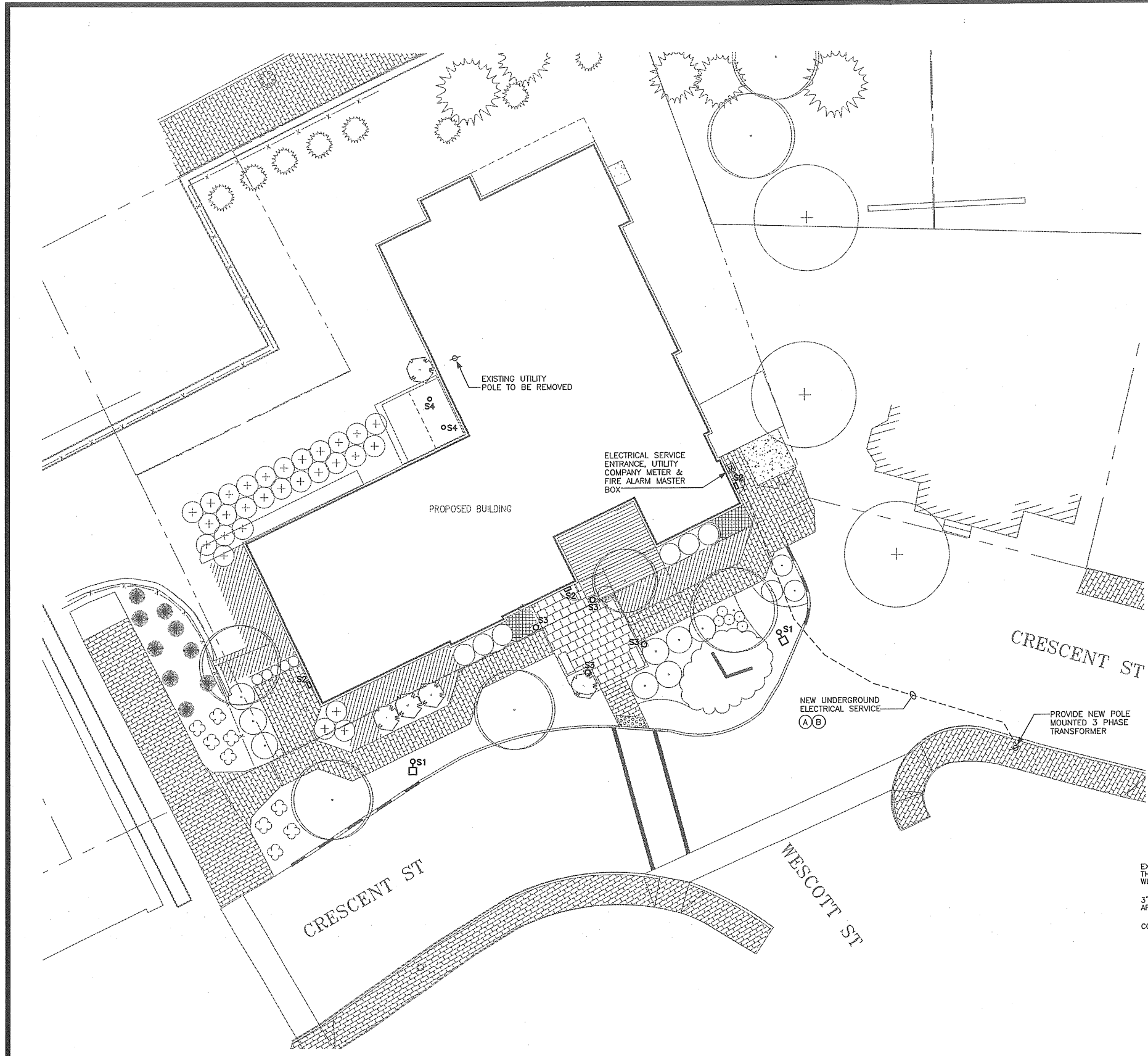


- NOTES:**
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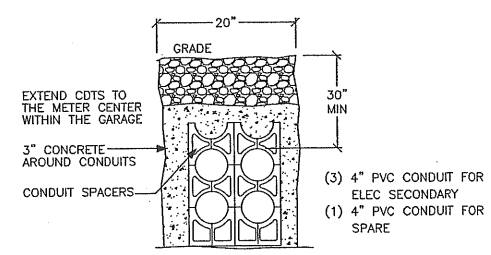


PROJECT		CRESCENT HEIGHTS		DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.776.1121 WWW.DELUCAHOFFMAN.COM
SHEET TITLE		PHOTOMETRIC LIGHTING PLAN		
CLIENT		CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS		DRAWN: JLC DATE: DEC 2008 DESIGNED: JLC SCALE: 1" = 10' CHECKED: LEB JOB NO. 2827 FILE NAME: 2827-SP SHEET: E-001
REV	DATE	DESCRIPTION	REVISIONS	P.E. STEPHEN BUSHEY LIC. #7429
1	02.25.09	RESUBMISSION TO CITY OF PORTLAND		

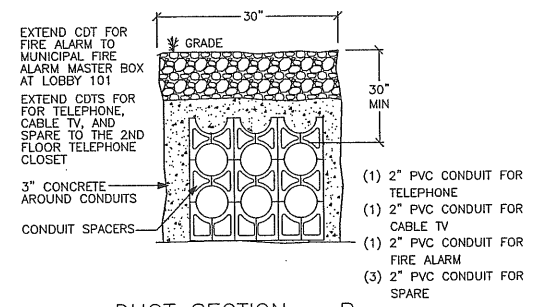


RISER POLE DETAIL
NOT TO SCALE

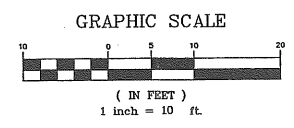
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 8. LONG SWEEP CONDUIT ELBOW.
 9. 3/4" DIA BY 10 FT. LONG COPPER CLAD GROUND ROD.



DUCT SECTION - A
NOT TO SCALE

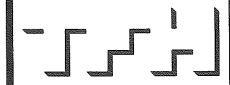


DUCT SECTION - B
NOT TO SCALE



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PROJECT		CRESCENT HEIGHTS		DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 6 SOUTH PORTLAND, ME 04108 207-776-1121 WWW.DELOUCAHOFFMAN.COM
SHEET TITLE		ELECTRICAL SITE PLAN		
DESIGNED: JLC		DATE: DEC 2008		SCALE: 1" = 10'
CHECKED: LEB		JOB NO. 2827		FILE NAME: 2827-SP
SHEET		E-002		
1 02.25.09 RESUBMISSION TO CITY OF PORTLAND REV DATE DESCRIPTION		P.E. STEPHEN BUSHEY LIC. #7429		PROJECT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS



TFH ARCHITECTS
100 COMMERCIAL STREET
PORTLAND MAINE 04101
TELEPHONE 207 775 6141
ARCHITECTURE PLANNING

CONSULTANTS:

DATE: 05.09.07

PROJECT No. 0422

DRAWN BY: SA

CHECKED BY: TST

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

SHEET TITLE:
COURT YARD AT
CHESNUT STREET

SK-R-1
REVISION

Bituminous
parking area

SAILOR COURSING

RUNNING BOND

SAILOR COURSING
(MAY STAGGER)

RUNNING BOND

SAILOR COURSING

R11'-0"

"STAGE

PARCEL

"CHAPEL

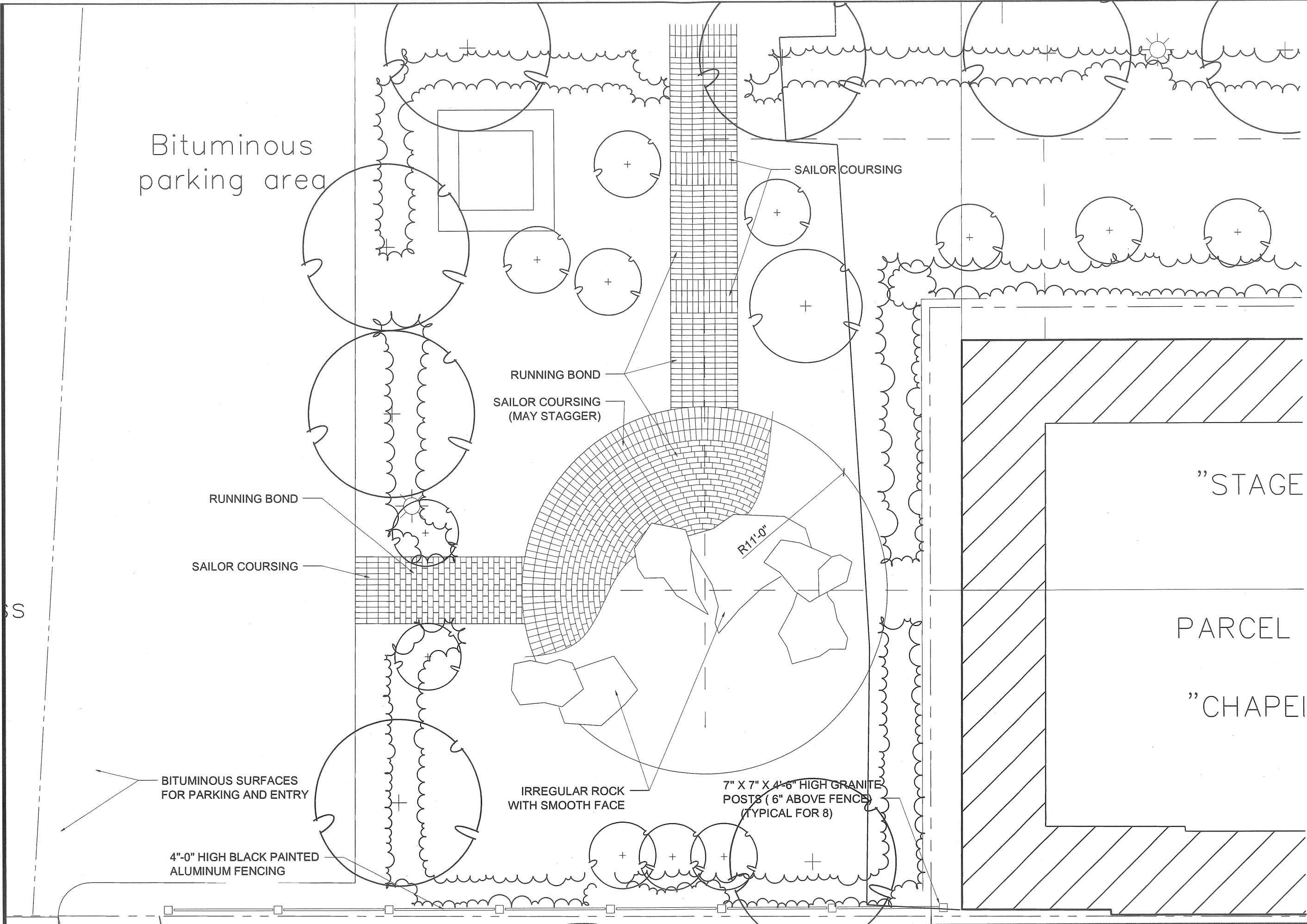
BITUMINOUS SURFACES
FOR PARKING AND ENTRY

4"-0" HIGH BLACK PAINTED
ALUMINUM FENCING

IRREGULAR ROCK
WITH SMOOTH FACE

7" X 7" X 4'-6" HIGH GRANITE
POSTS (6" ABOVE FENCE)
(TYPICAL FOR 8)

SS



CHESTNUT STREET LOFTS
URBAN REVITALIZATION PROJECT
BY CHESTNUT STREET LLC.
PORTLAND, MAINE

TFH ARCHITECTS
100 COMMERCIAL STREET
PORTLAND MAINE 04101
TELEPHONE 207 775 6141
ARCHITECTURE PLANNING

CONSULTANTS:

DATE: 05.09.07

PROJECT No. 0422

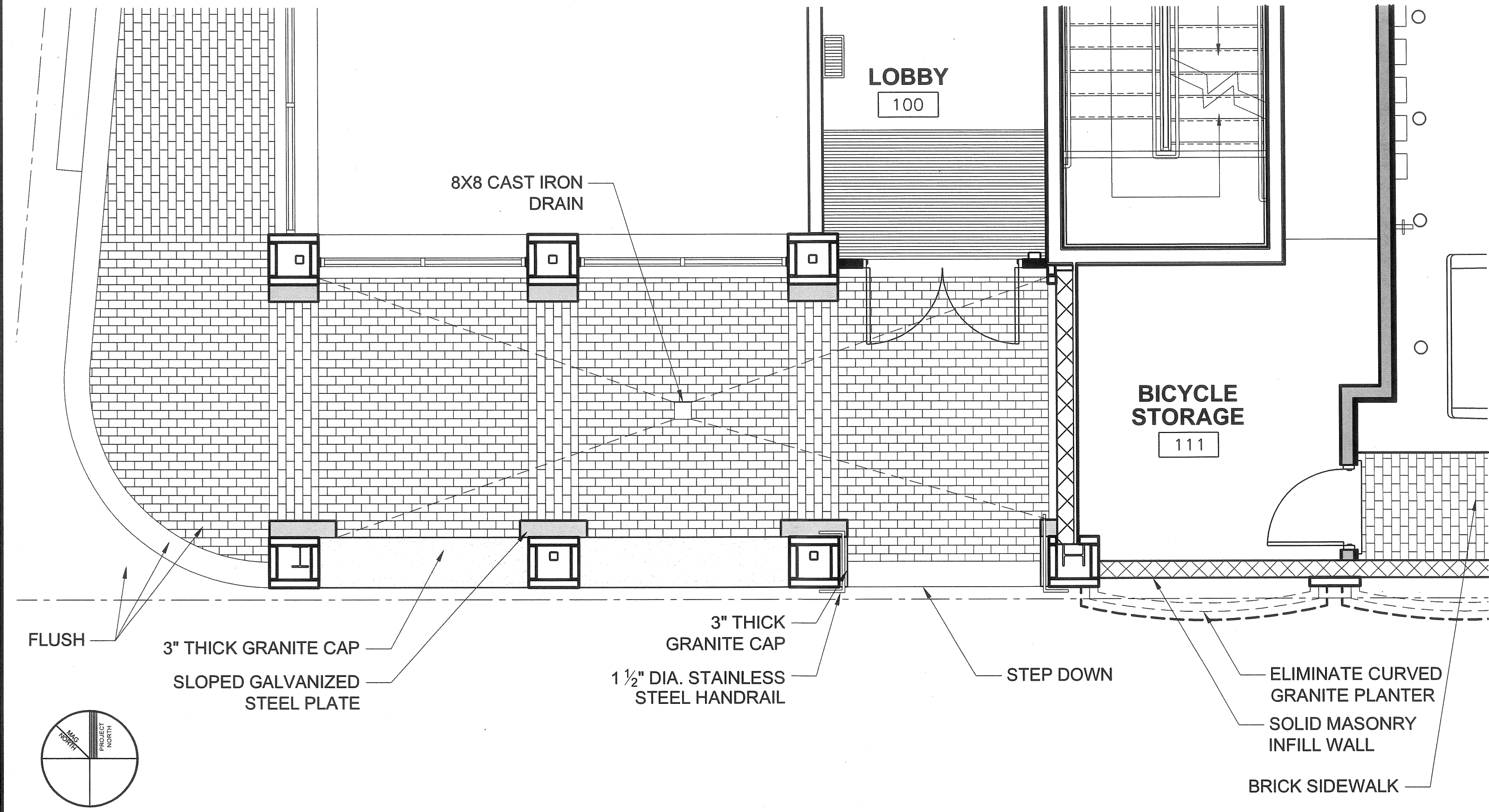
DRAWN BY: SA

CHECKED BY: TST

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

SHEET TITLE:
COLONNADES AT
CHESTNUT STREET
ELEVATION

SK-R-2
REVISION



LOBBY
100

BICYCLE STORAGE
111

8X8 CAST IRON DRAIN

FLUSH

3" THICK GRANITE CAP
SLOPED GALVANIZED
STEEL PLATE

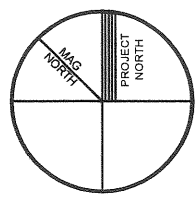
3" THICK
GRANITE CAP

1 1/2" DIA. STAINLESS
STEEL HANDRAIL

STEP DOWN

ELIMINATE CURVED
GRANITE PLANTER
SOLID MASONRY
INFILL WALL

BRICK SIDEWALK



CHESTNUT STREET LOFTS
URBAN REVITALIZATION PROJECT
BY CHESTNUT STREET LLC.
PORTLAND, MAINE

TFM ARCHITECTS
100 COMMERCIAL STREET
PORTLAND MAINE 04101
TELEPHONE 207 775 6141
ARCHITECTURE PLANNING

CONSULTANTS:

DATE: 05.09.07

PROJECT No. 0422

DRAWN BY: SA

CHECKED BY: TST

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

SHEET TITLE:
COLONNADES AT
CHESTNUT STREET
ELEVATION

SK-R-3
REVISION



CHESTNUT STREET LOFTS

3" THICK
GRANITE CAP
2" RECESS

GRAY
GROUNDFACE CMU
YELLOW
GROUNDFACE CMU

3" THICK
GRANITE
CAP

ELIMINATE CURVED
GRANITE PLANTER
SOLID MASONRY
INFILL WALL

COLONNADE

NOTE: HORIZONTAL JOINTS BETWEEN GRANITE AND CMU TO
BE RAKED 3/8" DEEP AND FILLED WITH SEALANT

CHESTNUT STREET LOFTS
URBAN REVITALIZATION PROJECT
BY CHESTNUT STREET LLC.
PORTLAND, MAINE

TFH ARCHITECTS
100 COMMERCIAL STREET
PORTLAND MAINE 04101
TELEPHONE 207 775 6141
ARCHITECTURE PLANNING

CONSULTANTS:

DATE: 05.09.07

PROJECT No. 0422

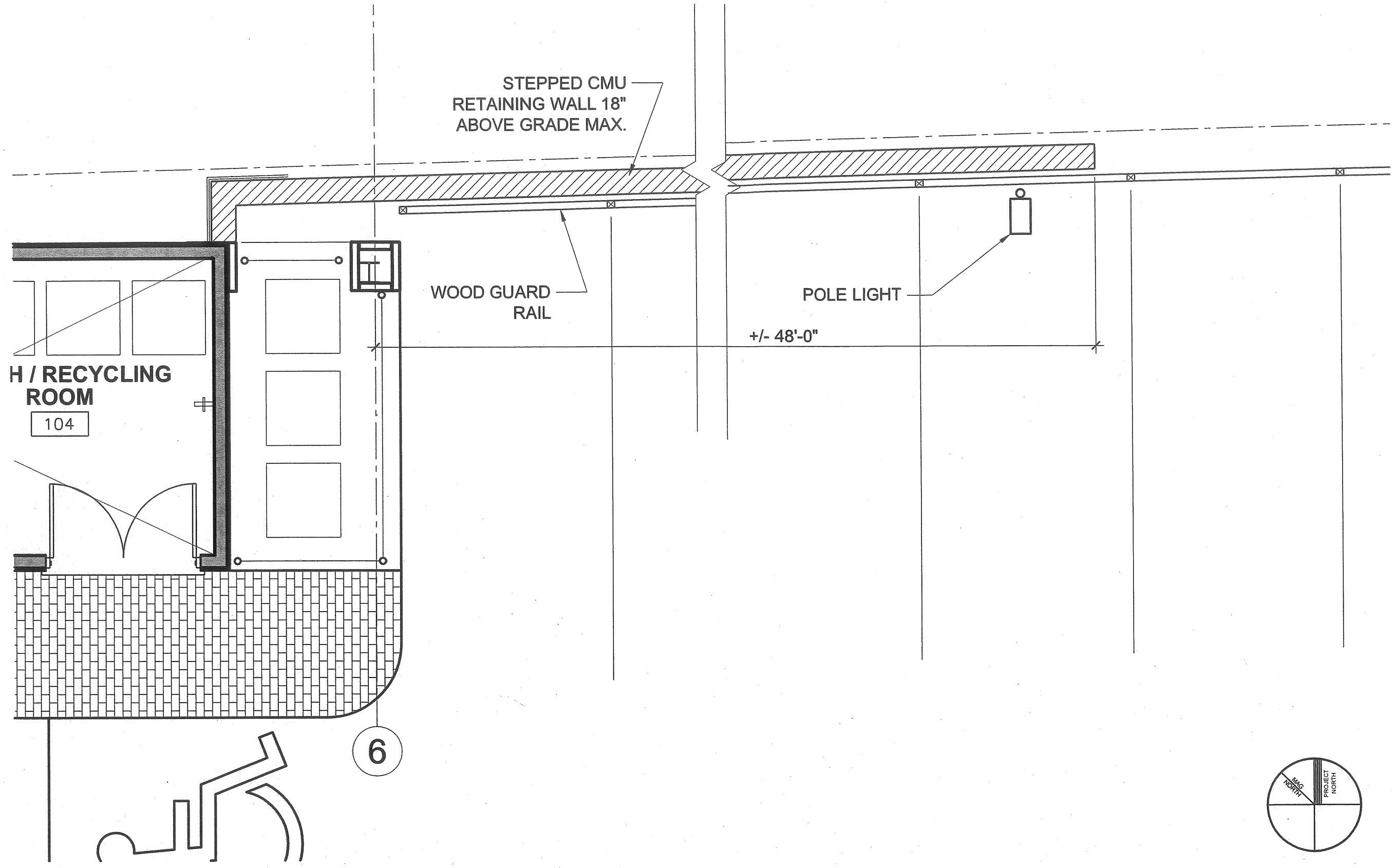
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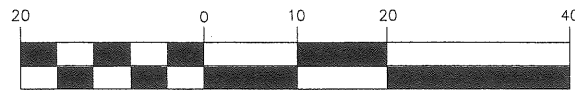
SCALE: 1/4"=1'-0"

SHEET TITLE:
RETAINING WALL

SK-R-4
REVISION



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

- Approximate Location of Test Borings
- Approximate Location of Test Borings made in May 2001 for a Preliminary Investigation for the Proposed Women and Infants Project (SWC Project No. 01-0304)
- Approximate Location of Test Borings made in January / February 2004 for the Proposed Parking Garage Project (SWC Project No. 02-0067.1)

NOTES:

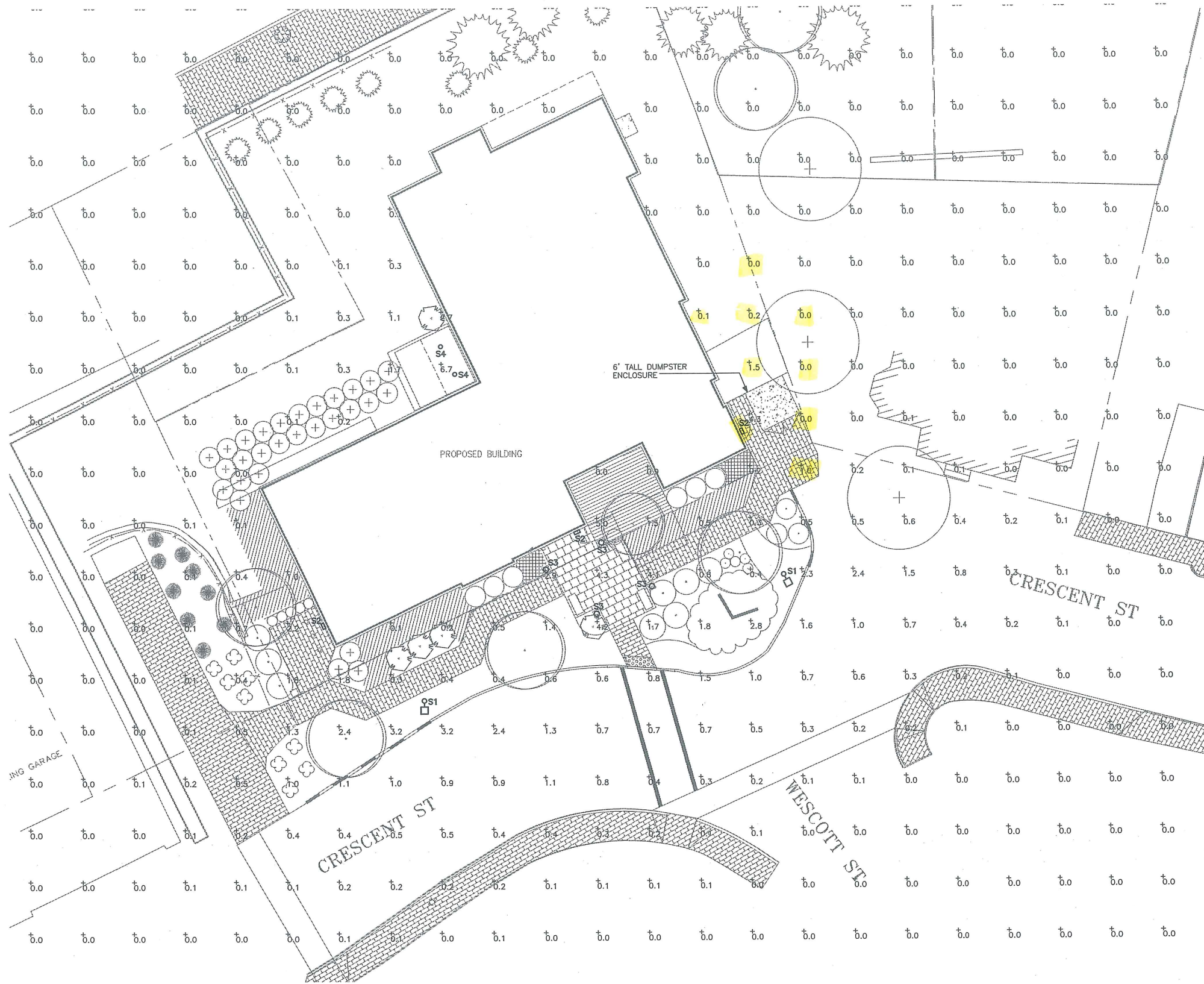
1. EXPLORATION LOCATION PLAN WAS PREPARED FROM A 1"=20' SCALE PLAN OF THE SITE ENTITLED "CRESENT STREET APARTMENTS, EXISTING CONDITONS", PREPARED BY DELUCA HOFFMAN ASSOCIATES, INC., UNDATED.
2. THE BORINGS WERE LOCATED IN THE FIELD BY TAPED MEASUREMENTS FROM EXISTING SITE FEATURES.
3. THIS PLAN SHOULD BE USED IN CONJUNCTION WITH THE REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, PROPOSED APARTMENT BUILDING, 25 & 29 CRESENT STREET, PORTLAND, MAINE", DATED OCTOBER 24, 2008.
4. THE PURPOSE OF THIS PLAN IS ONLY TO DEPICT THE LOCATION OF THE EXPLORATIONS IN RELATION TO THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION AND IS NOT TO BE USED FOR CONSTRUCTION.



DEVELOPERS COLLABORATIVE
EXPLORATION LOCATION PLAN
 PROPOSED APARTMENT BUILDING
 22 AND 29 CRESENT STREET
 PORTLAND, MAINE

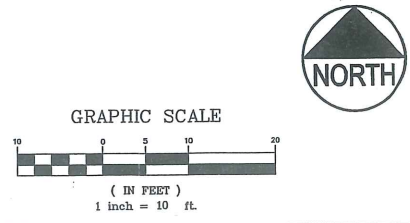
Job No. 08-0744 S
Date: 10/24/08

Scale 1" = 20'
Sheet 1

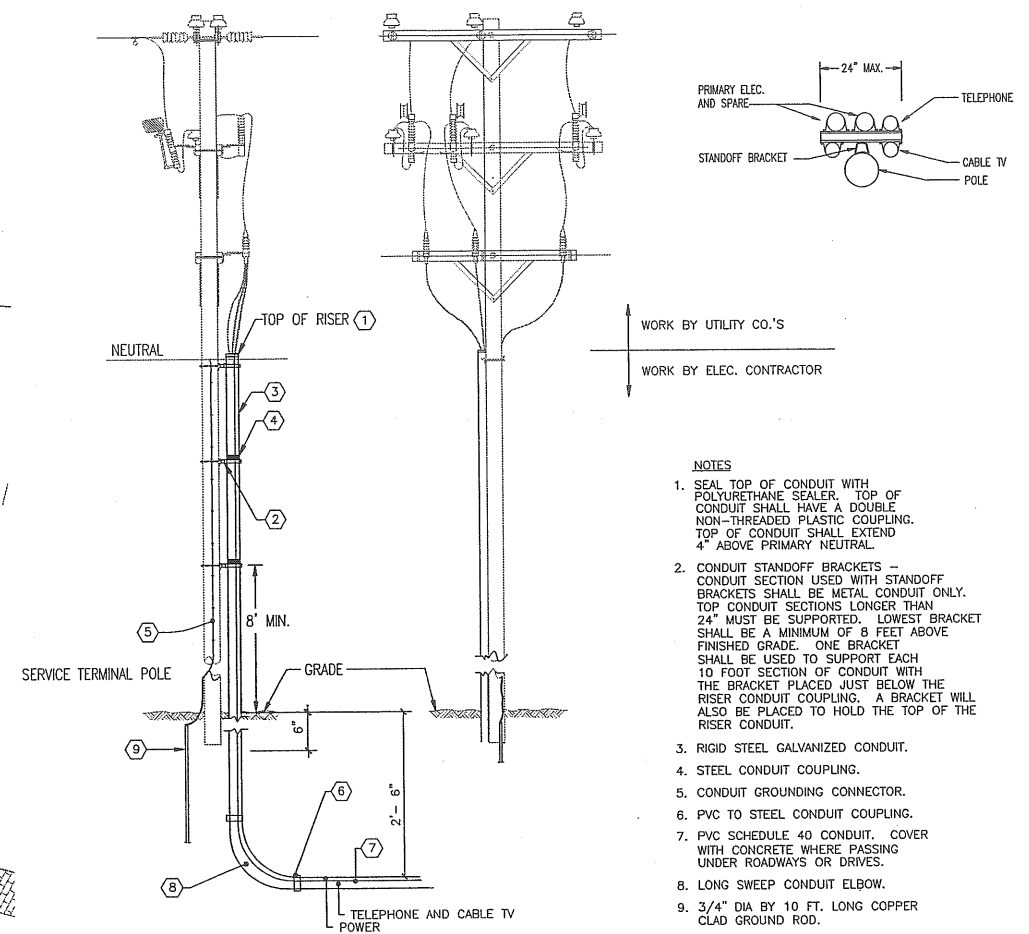
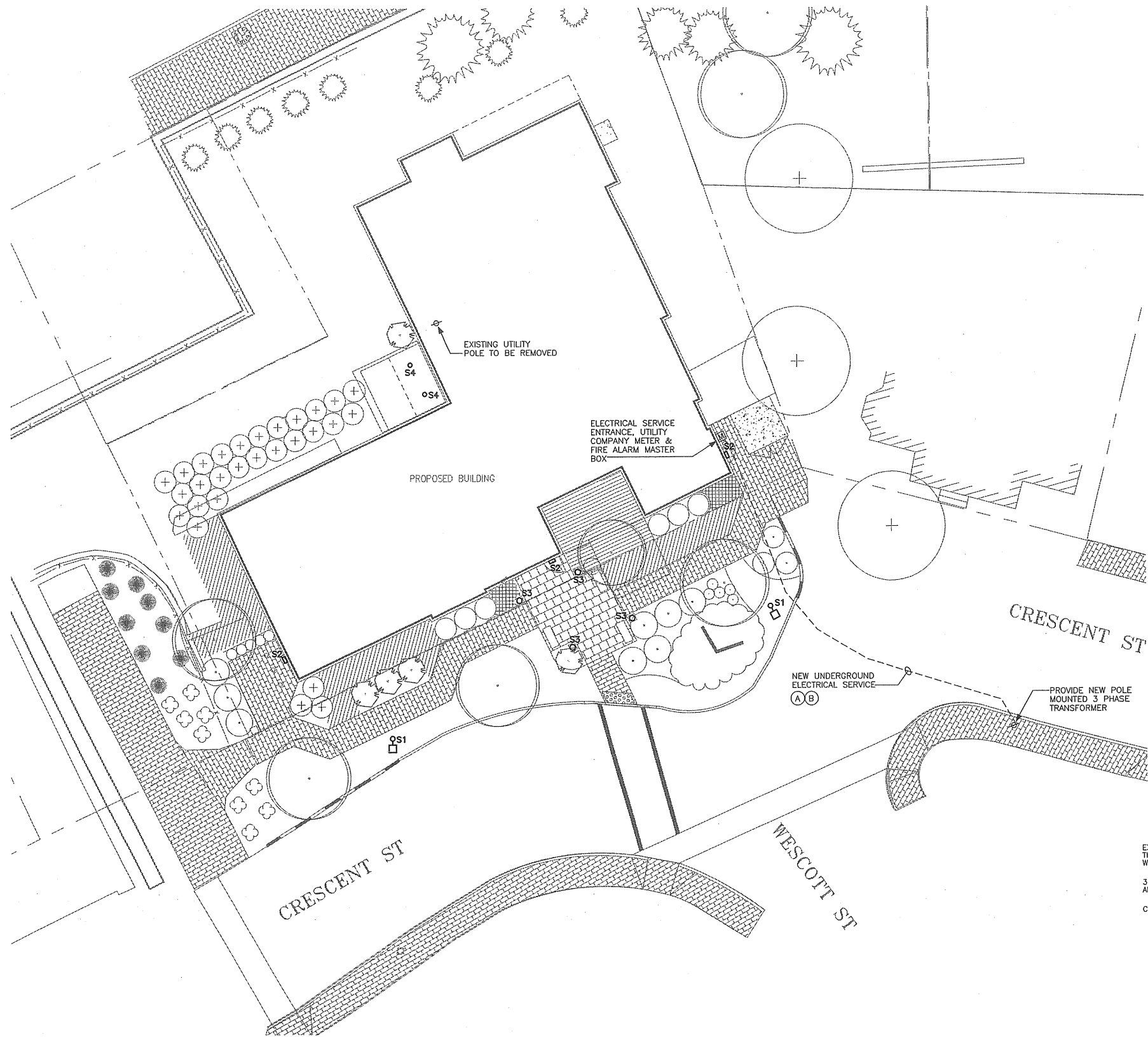


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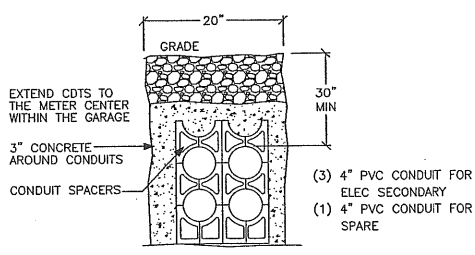


PROJECT		CRESCENT HEIGHTS		DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 9 SOUTH PORTLAND, ME 04106 207.776.1121 WWW.DELUCAHOFFMAN.COM
SHEET TITLE		PHOTOMETRIC LIGHTING PLAN		
CLIENT		CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS		DRAWN: JLG DATE: DEC 2009 DESIGNED: JLG SCALE: 1" = 10' CHECKED: LEB JOB NO. 2827 FILE NAME: 2827-SP SHEET: E-001
REV	DATE	DESCRIPTION	REVISIONS	P.E. STEPHEN BJSHEY LIC. #7429
1	02.25.09	RESUBMISSION TO CITY OF PORTLAND		

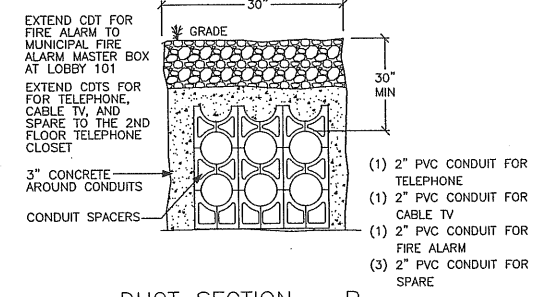


RISER POLE DETAIL
NOT TO SCALE

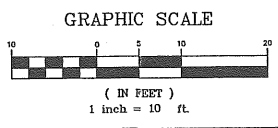
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DUCT SECTION - A
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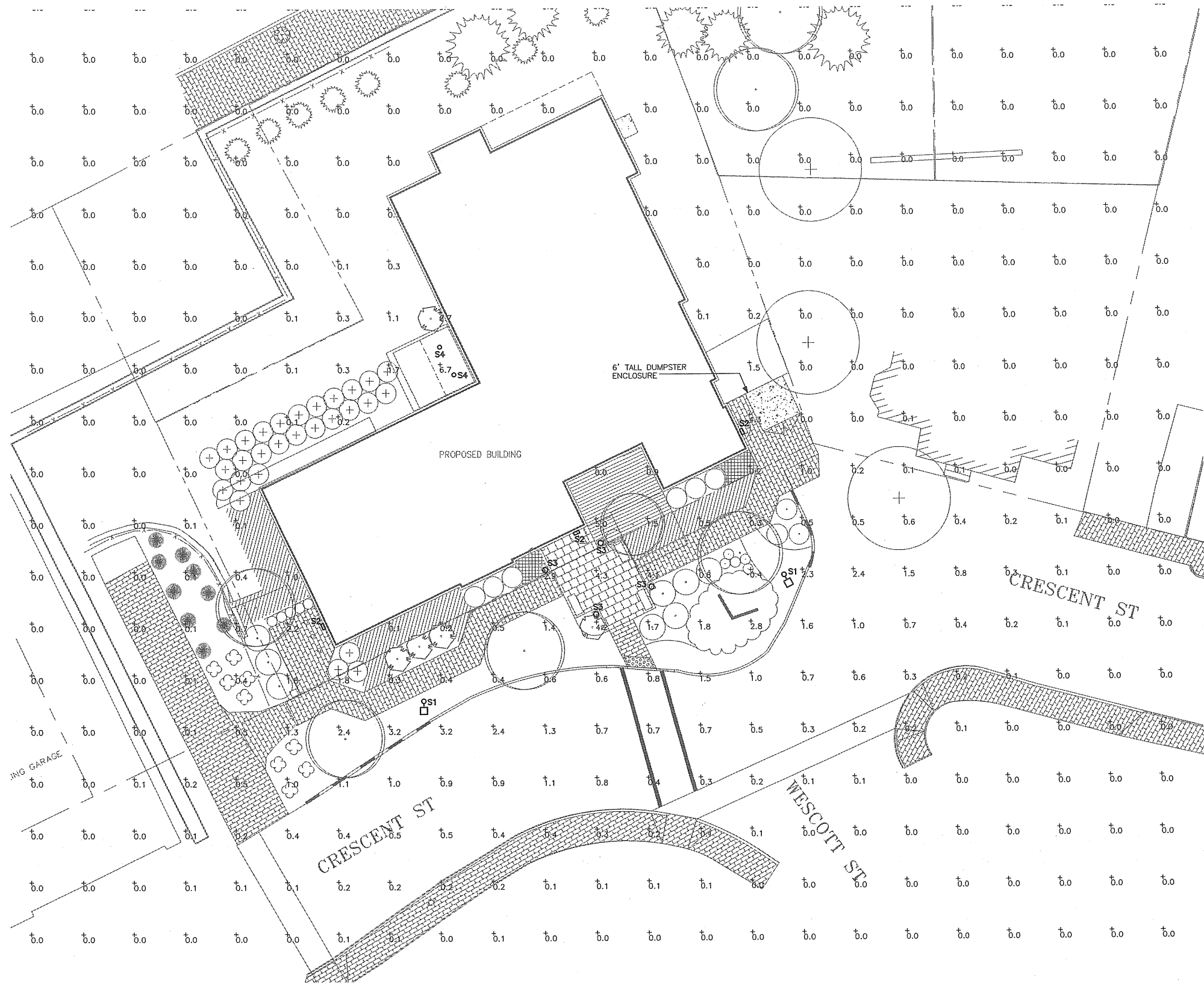
DUCT SECTION - B
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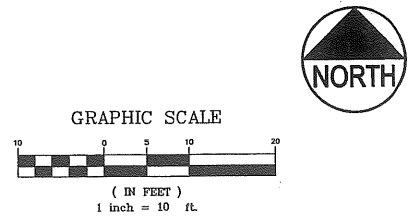
REVISIONS 1 02.25.09 RESUBMISSION TO CITY OF PORTLAND P.E. STEPHEN BUSHEY U.C. #7429		PROJECT CRESCENT HEIGHTS SHEET TITLE ELECTRICAL SITE PLAN CLIENT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	DESIGNER JLC CHECKED LEB FILE NAME 2827-SP SHEET E-002	DATE DEC 2008 SCALE 1" = 10' JOB NO. 2827	DESIGNED BY JLC DATE DEC 2008 SCALE 1" = 10' CHECKED BY LEB JOB NO. 2827 FILE NAME 2827-SP SHEET E-002
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DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.776.1121
WWW.DELOUCAHOFFMAN.COM

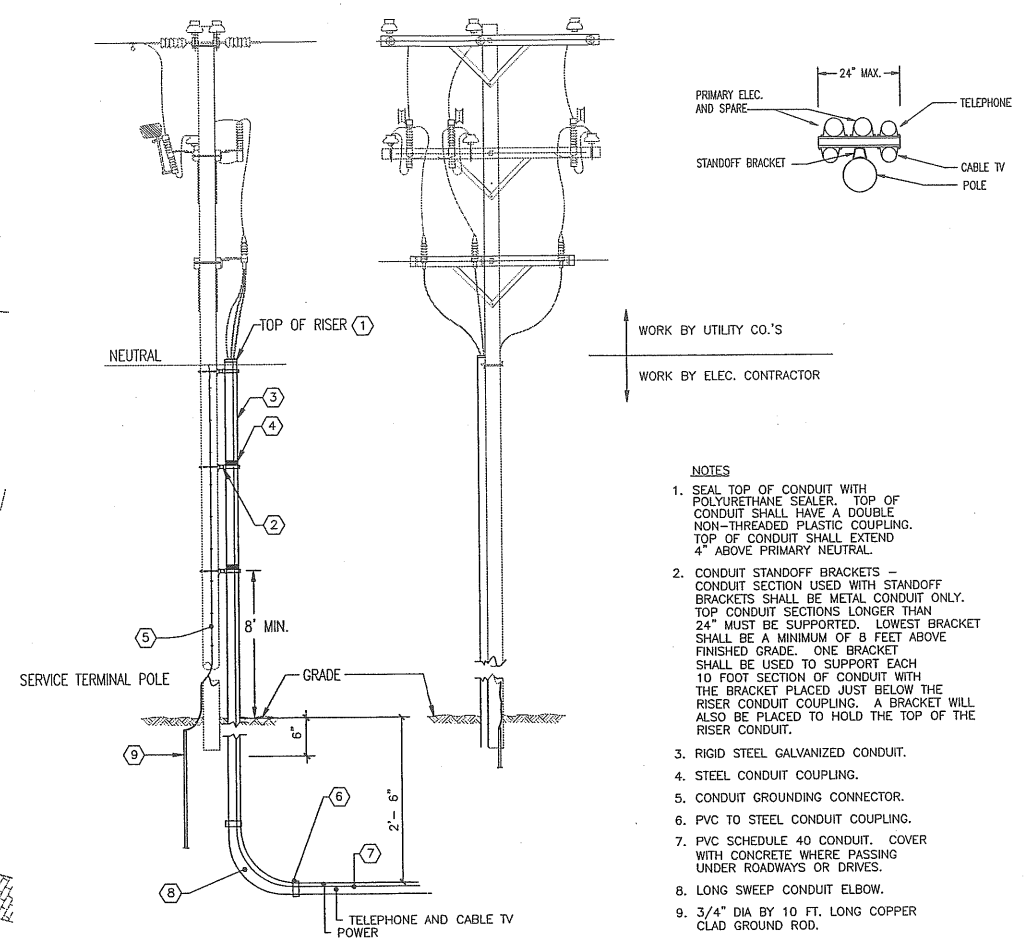
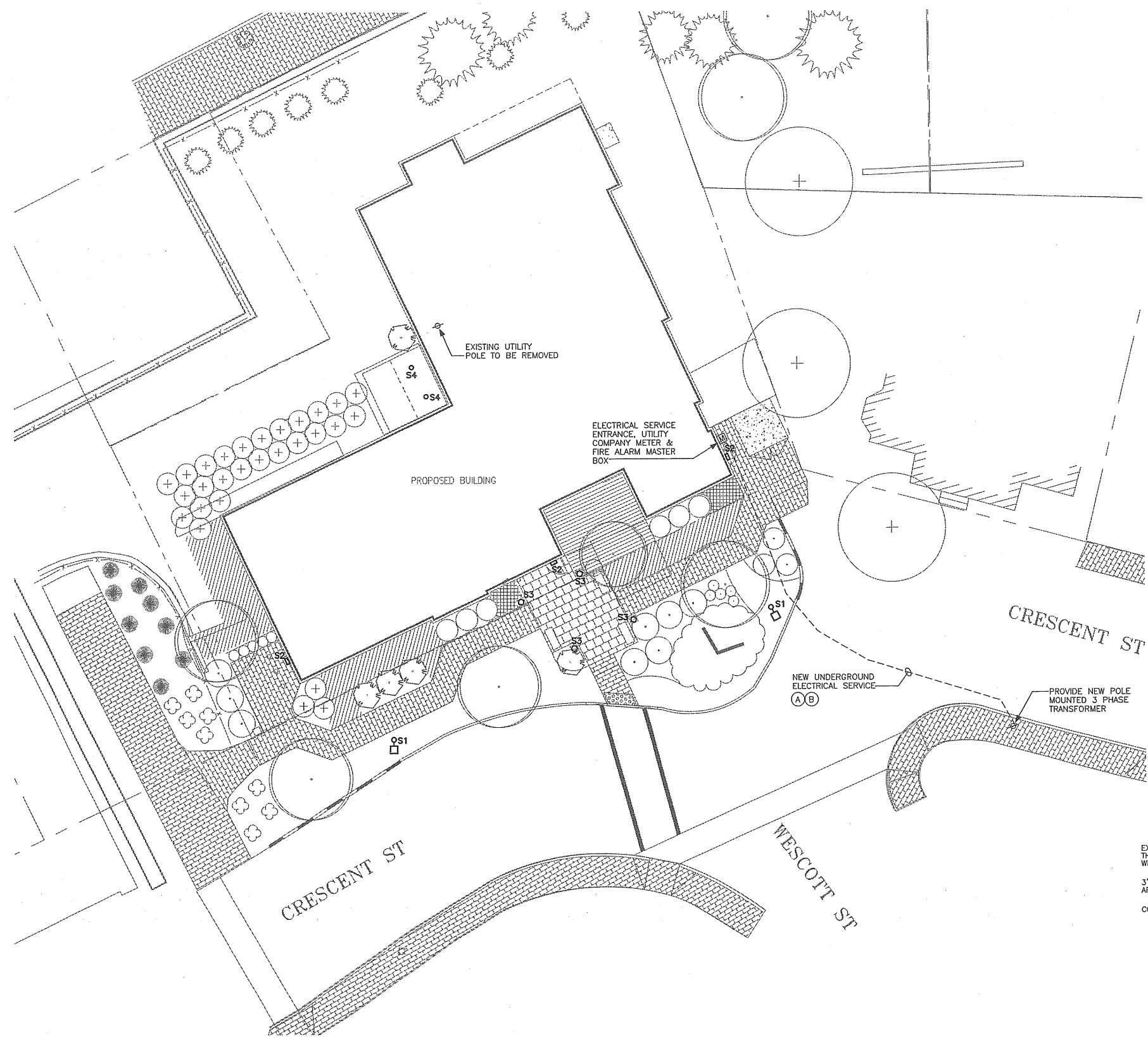


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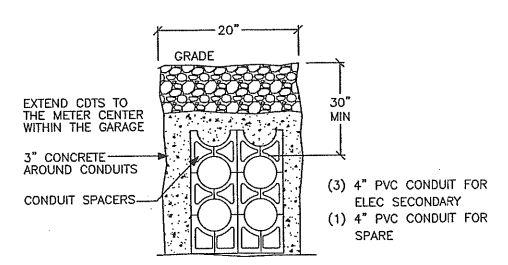
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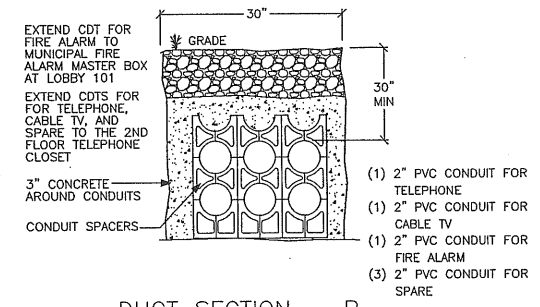
PROJECT		CRESCENT HEIGHTS		 DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 9 SOUTH PORTLAND, ME 04108 207.776.1121 WWW.DELOUCAHOFFMAN.COM
SHEET TITLE		PHOTOMETRIC LIGHTING PLAN		
CLIENT		CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS		DRAWN: JLC DATE: DEC 2008 DESIGNED: JLC SCALE: 1" = 10' CHECKED: LEB JOB NO. 2827 FILE NAME: 2827-SP
REVISIONS		P.E. STEPHEN BUSHEY LIC. #7429		SHEET E-001
1	02.25.09	RESUBMISSION TO CITY OF PORTLAND		



RISER POLE DETAIL
NOT TO SCALE

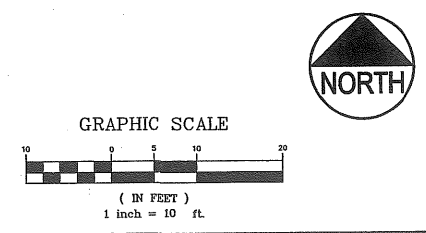


DUCT SECTION - A
NOT TO SCALE




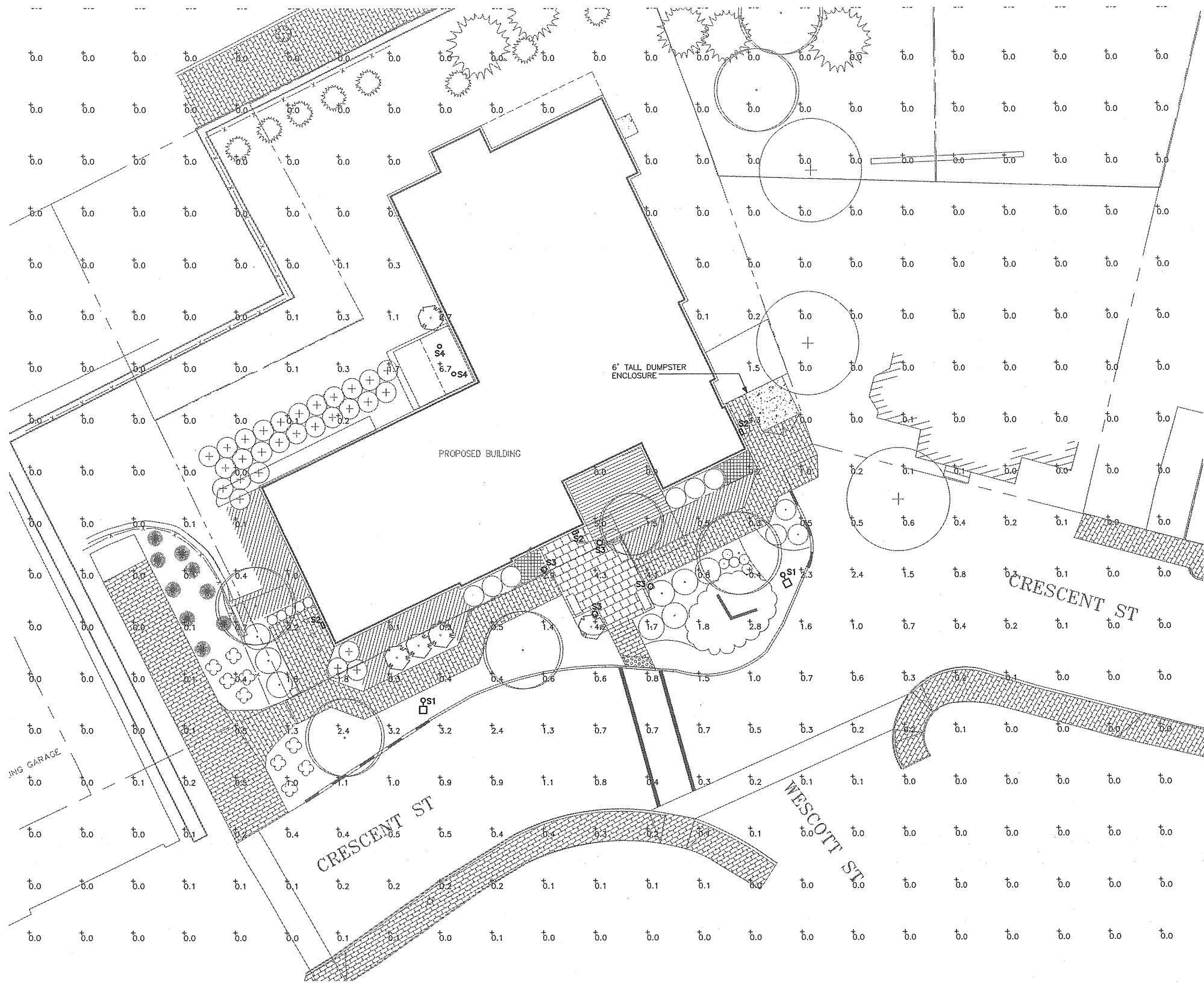
DUCT SECTION - B
NOT TO SCALE

- NOTES**
1. SEAL TOP OF CONDUIT WITH POLYURETHANE SEALER. TOP OF CONDUIT SHALL HAVE A DOUBLE NON-THREADED PLASTIC COUPLING. TOP OF CONDUIT SHALL EXTEND 4" ABOVE PRIMARY NEUTRAL.
 2. CONDUIT STANDOFF BRACKETS - CONDUIT SECTION USED WITH STANDOFF BRACKETS SHALL BE METAL CONDUIT ONLY. TOP CONDUIT SECTIONS LONGER THAN 24" MUST BE SUPPORTED. LOWEST BRACKET SHALL BE A MINIMUM OF 8 FEET ABOVE FINISHED GRADE. ONE BRACKET SHALL BE USED TO SUPPORT EACH 10 FOOT SECTION OF CONDUIT WITH THE BRACKET PLACED JUST BELOW THE RISER CONDUIT COUPLING. A BRACKET WILL ALSO BE PLACED TO HOLD THE TOP OF THE RISER CONDUIT.
 3. RIGID STEEL GALVANIZED CONDUIT.
 4. STEEL CONDUIT COUPLING.
 5. CONDUIT GROUNDING CONNECTOR.
 6. PVC TO STEEL CONDUIT COUPLING.
 7. PVC SCHEDULE 40 CONDUIT. COVER WITH CONCRETE WHERE PASSING UNDER ROADWAYS OR DRIVES.
 8. LONG SWEEP CONDUIT ELBOW.
 9. 3/4" DIA BY 10 FT. LONG COPPER CLAD GROUND ROD.



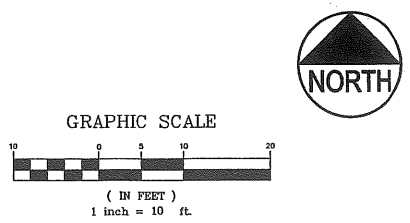
FOR REVIEW ONLY - NOT FOR CONSTRUCTION

PROJECT		CRESCENT HEIGHTS		 DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM	
SHEET TITLE		ELECTRICAL SITE PLAN		DRAWN: JLC	DATE: DEC 2008
CLIENT		CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS		DESIGNED: JLC	SCALE: 1" = 10'
REVISIONS		1 02.25.09 RESUBMISSION TO CITY OF PORTLAND P.E. STEPHEN BUSHEY U.C. #7429		CHECKED: LEB	JOB NO. 2827
				FILE NAME: 2827-SP	SHEET E-002



- NOTES:**
1. CALCULATED VALUES REPRESENT MAINTAINED FOOTCANDLE LEVELS AT GRADE.
 2. FIXTURES TYPES ARE AS FOLLOWS:
 TYPE S1 - EXISTING POLE MOUNTED LIGHT
 TYPE S2 - GUTH LIGHTING, SUNDOWNER SERIES, 32W COMPACT FLUORESCENT, 2400 LUMENS, .77 LLF
 TYPE S3 - KIM LIGHTING, HIGH PERFORMANCE BOLLARD, 32W COMPACT FLUORESCENT, 2400 LUMENS, .77 LLF
 TYPE S4 - USA ILLUMINATIONS, SOLARIS SERIES, 32W COMPACT FLUORESCENT, 2400 LUMENS, .77 LLF
 3. THE TYPE S2 LIGHTS LOCATED ON THE SOUTHWEST SIDE AND ON THE FRONT OF THE BUILDING ARE MOUNTED AT 12 FOOT ABOVE GRADE. THE TYPE S2 LIGHT LOCATED ON THE NORTHEAST SIDE OF THE BUILDING IS MOUNTED AT 9 FOOT ABOVE GRADE.

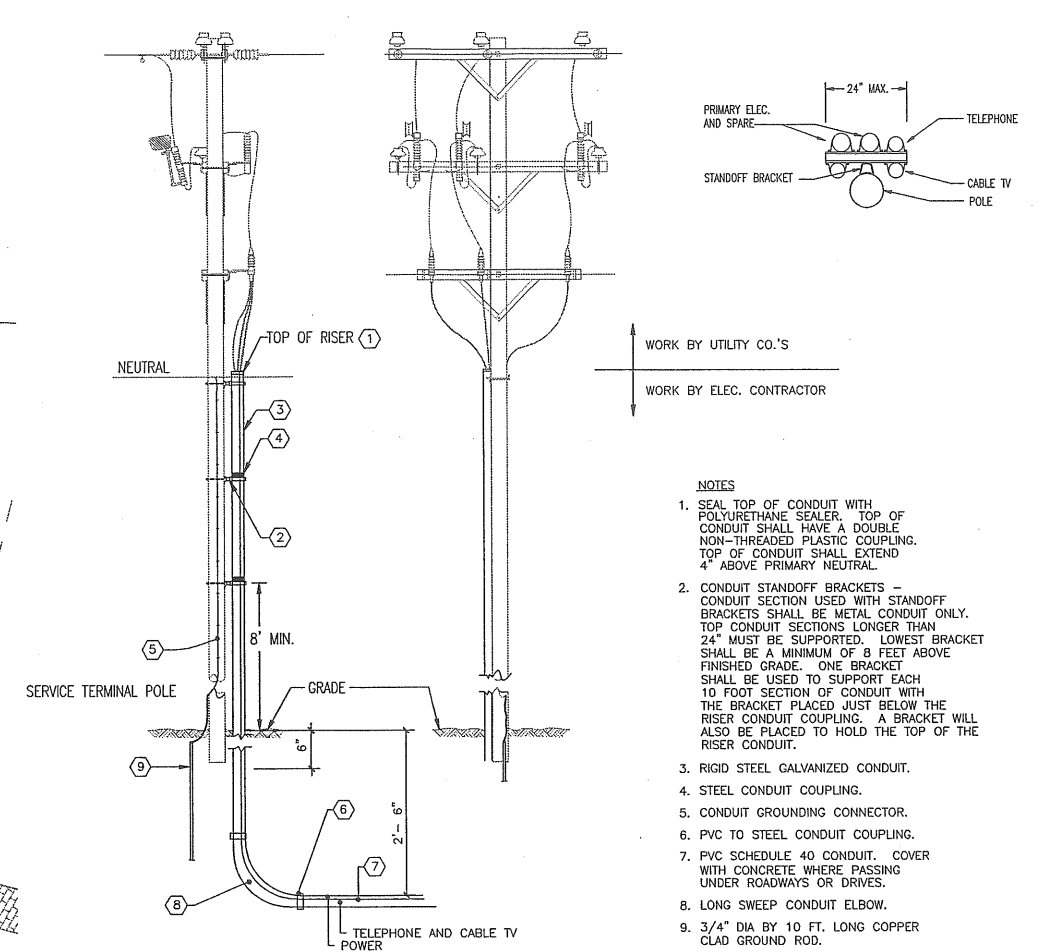
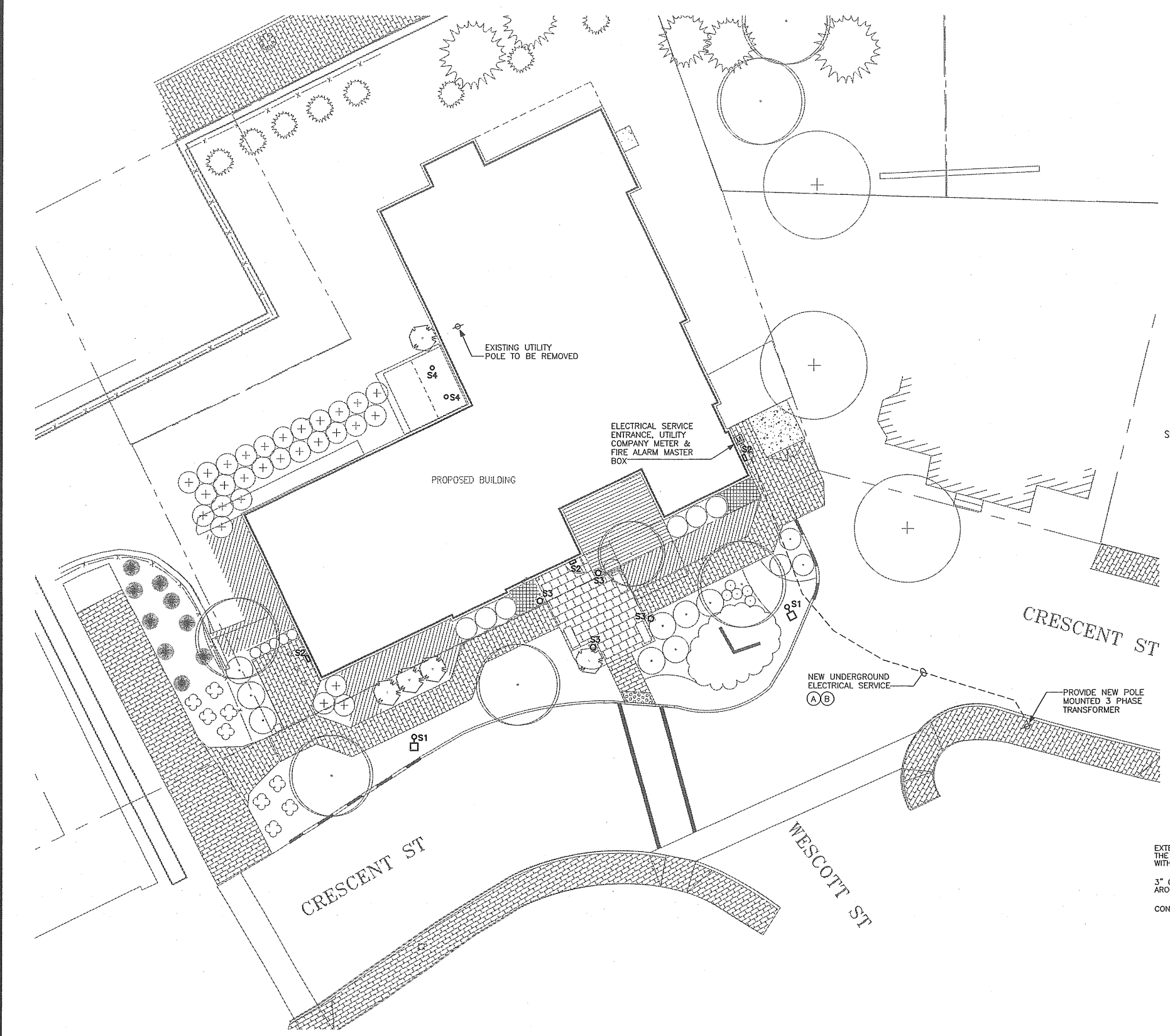
FOR REVIEW ONLY - NOT FOR CONSTRUCTION



PROJECT		CRESCENT HEIGHTS	
SHEET TITLE		PHOTOMETRIC LIGHTING PLAN	
SUBJECT		CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS	
DESIGNED:	JLC	DATE:	DEC 2008
CHECKED:	LEB	SCALE:	1" = 10'
FILE NAME:	2827-SP	JOB NO.:	2827
DRAWN:		E-001	

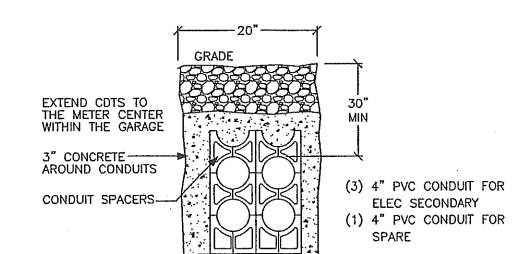
REV	DATE	DESCRIPTION	REVISIONS
1	02.25.09	RESUBMISSION TO CITY OF PORTLAND	
			P.E. STEPHEN BUSHEY UC. #7429

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
 178 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELOUCAHOFFMAN.COM

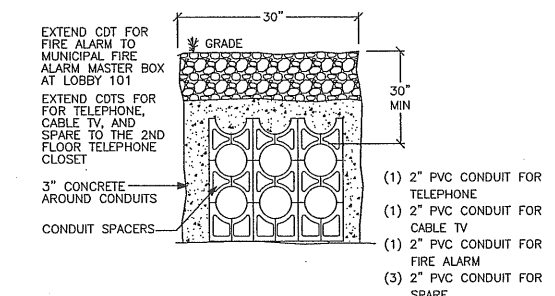


- NOTES**
1. SEAL TOP OF CONDUIT WITH POLYURETHANE SEALER. TOP OF CONDUIT SHALL HAVE A DOUBLE NON-THREADED PLASTIC COUPLING. TOP OF CONDUIT SHALL EXTEND 4" ABOVE PRIMARY NEUTRAL.
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 3. RIGID STEEL GALVANIZED CONDUIT.
 4. STEEL CONDUIT COUPLING.
 5. CONDUIT GROUNDING CONNECTOR.
 6. PVC TO STEEL CONDUIT COUPLING.
 7. PVC SCHEDULE 40 CONDUIT. COVER WITH CONCRETE WHERE PASSING UNDER ROADWAYS OR DRIVES.
 8. LONG SWEEP CONDUIT ELBOW.
 9. 3/4" DIA BY 10 FT. LONG COPPER CLAD GROUND ROD.

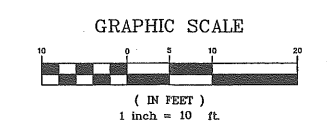
RISER POLE DETAIL
NOT TO SCALE



DUCT SECTION - A
NOT TO SCALE

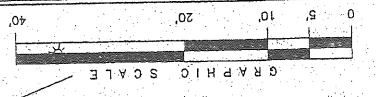


DUCT SECTION - B
NOT TO SCALE



FOR REVIEW ONLY - NOT FOR CONSTRUCTION

PROJECT CRESCENT HEIGHTS			DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE B SOUTH PORTLAND, ME 04106 207.778.1121 WWW.DELOUCAHOFFMAN.COM
SHEET TITLE ELECTRICAL SITE PLAN			
DESIGNED: JLC DATE: DEC 2008 CHECKED: LEB SCALE: 1" = 10' FILE NAME: 2827-SP			DRAWN: JLC CHECKED: LEB JOB NO. 2827
1 02.25.09 RESUBMISSION TO CITY OF PORTLAND P.E. STEPHEN BUSHEY UC. #7429			PROJECT CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
REVISIONS			SHEET E-002

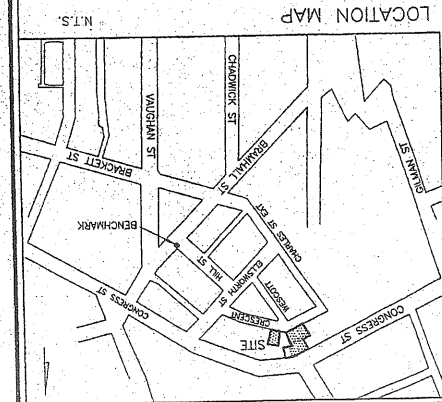
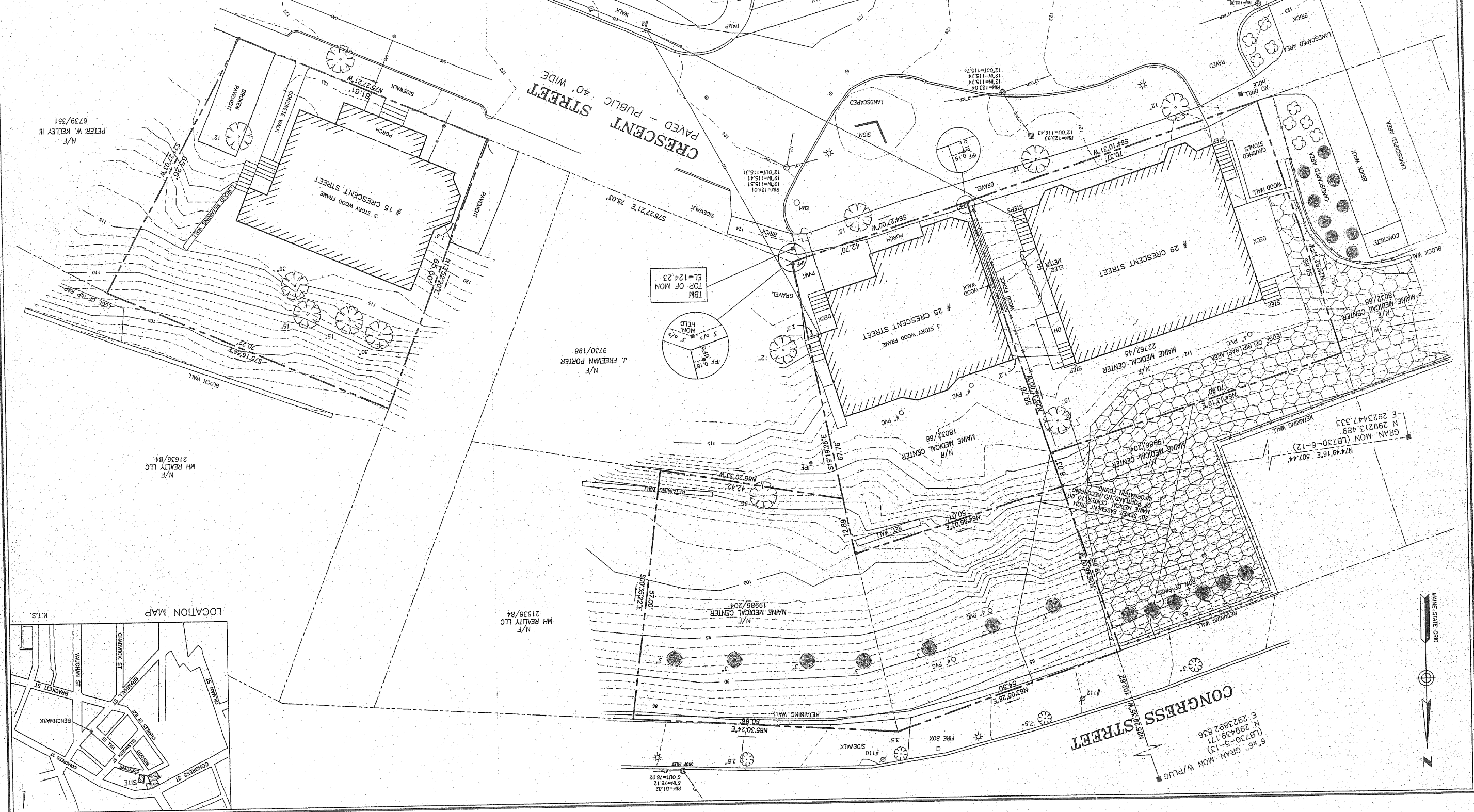


- LEGEND:**
- IRIS
 - IRON PIPE OR ROD FOUND
 - 5/8" IRON ROD TO BE SET
 - HYDRANT
 - LIGHT POLE
 - UTILITY POLE
 - CATCH BASIN
 - WATER VALVE
 - MANHOLE
 - FENCE
 - CURB

- PLAN REFERENCES:**
1. STREET WALKWAY/ACCEPTANCE AND LAND TRANSFER PLAN OF MAINE MEDICAL CENTER
 2. STANDARD BOUNDARY SURVEY OF 15 CRESCENT STREET PORTLAND MAINE MADE FOR MAINE MEDICAL CENTER DATED NOV. 14, 2002 BY OWEN HASKELL, INC.
 3. STANDARD BOUNDARY SURVEY AT 29 CRESCENT STREET PORTLAND, MAINE MADE FOR MAINE MEDICAL CENTER DATED NOV. 25, 2002 BY OWEN HASKELL, INC.

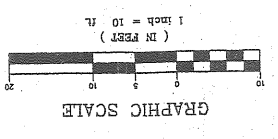
- NOTES:**
1. OWNER OF RECORD: MAINE MEDICAL CENTER
 2. PARCEL IS SHOWN AS LOTS 4, 5, 6, 14, 15 BLOCK E AND LOT B BLOCK F ON THE CITY OF PORTLAND ASSESSORS MAP 53.
 3. COORDINATES SHOWN ARE MAINE STATE PLANE WEST ZONE MAD 1983 DATUM.
 4. ELEVATIONS ARE BASED ON "M" MONUMENT AT THE NORTHEAST CORNER OF HILL AND BRIMMALL ST.
 5. PROPERTY LINE INFORMATION TAKEN FROM PLAN REFERENCE 2 & 3.
 6. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECONSTRUCTION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. OTHERS IN SERVICE OR SHOWN ARE IN THE SURVEYOR'S FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DISSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.

REV 12-09-08	MISC. REVISIONS
REV 11-08-04	ADDITIONAL UTILITY LOCATION
REV 11-08-04	ADDITIONAL UTILITY LOCATION
BOUNDARY AND TOPOGRAPHIC SURVEY CRESCENT STREET, PORTLAND, MAINE MADE FOR DELUCA HOFFMAN ASSOC., INC. 778 MAIN STREET SOUTH PORTLAND, MAINE WEN HASKELL, INC. PROFESSIONAL LAND SURVEYORS 390 U.S. ROUTE ONE, FRYBOROUGH, MAINE 05724-0024	
Book No.	957
Check By	WCS
Drawn By	WCS
Date	JUNE 12, 2008
Job No.	2008-085 P
Scale	1" = 10'
Dwg. No.	1



ATTN

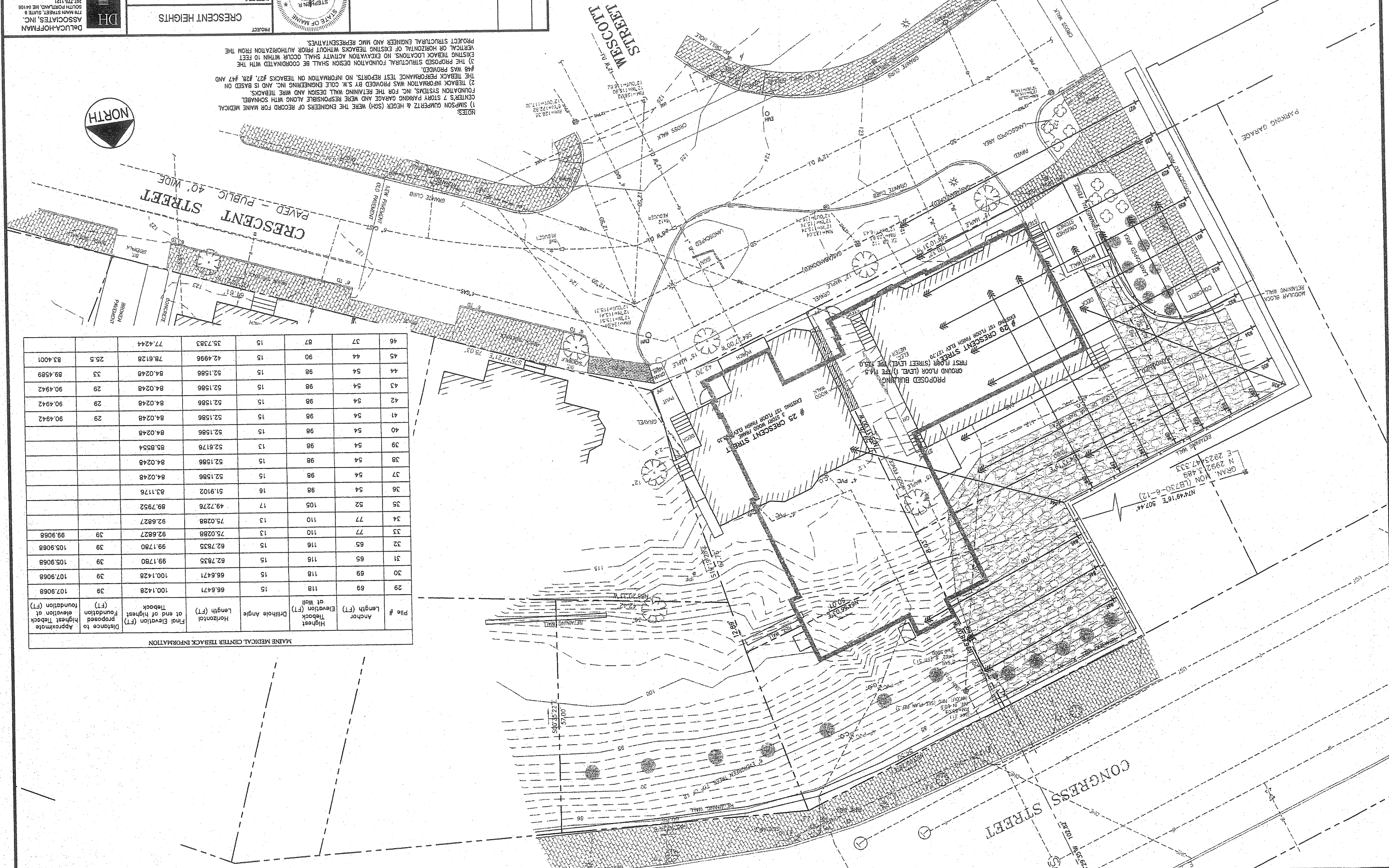
PRELIMINARY - NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION
1	08.19.08	PORTLAND
2	09.24.08	REFLECT SUBMISSION TO CITY OF PORTLAND
3	11.18.08	SUBMITTED TO CITY OF PORTLAND
4	12.18.08	RESUBMITTED TO CITY OF PORTLAND

PROJECT: CRESCENT HEIGHTS
 SHEET TITLE: MMC RETAINING WALL TIEBACKS
 CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
 ARCHITECT: DELUCA-HOFFMAN ASSOCIATES, INC.
 SHEET NO.: C-5
 DATE: SEPT 2008
 SCALE: 1" = 10'

NOTES:
 1) SIMPSON GUNPERTZ & HEGER (SGH) WERE THE ENGINEERS OF RECORD FOR MAINE MEDICAL CENTER'S 7 STORY PARKING GARAGE AND WERE RESPONSIBLE ALONG WITH SCHABEL FOUNDATION SYSTEMS, INC. FOR THE RETAINING WALL DESIGN AND TIEBACKS.
 2) TIEBACK INFORMATION WAS PROVIDED BY S.W. COLE ENGINEERING INC. AND IS BASED ON THE TIEBACK PERFORMANCE TEST REPORTS. NO INFORMATION ON TIEBACKS #27, #28, #47 AND #48 WAS PROVIDED.
 3) THE PROPOSED STRUCTURAL FOUNDATION DESIGN SHALL BE COORDINATED WITH THE VERTICAL OR HORIZONTAL OF EXISTING TIEBACKS WITHOUT PRIOR AUTHORIZATION FROM THE PROJECT STRUCTURAL ENGINEER AND MMC REPRESENTATIVES.



MAINE MEDICAL CENTER TIEBACK INFORMATION

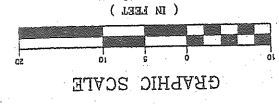
Pile #	Anchor Length (FT)	Highest Tieback Elevation (FT)	Dihole Angle	Horizontal Length (FT)	Final Elevation (FT) at end of highest tieback	Distance to Approximate Highest Tieback Foundation (FT)
29	69	118	15	66.6471	100.1428	107.9068
30	69	118	15	66.6471	100.1428	107.9068
31	65	116	15	62.7835	99.1780	105.9068
32	65	116	15	62.7835	99.1780	105.9068
33	77	110	13	75.0288	92.6827	99.9068
34	77	110	13	75.0288	92.6827	99.9068
35	52	105	17	49.7276	89.7952	
36	54	98	16	51.9102	83.1176	
37	54	98	15	52.1586	84.0248	
38	54	98	15	52.1586	84.0248	
39	54	98	13	52.6176	85.8554	
40	54	98	15	52.1586	84.0248	
41	54	98	15	52.1586	84.0248	
42	54	98	15	52.1586	84.0248	
43	54	98	15	52.1586	84.0248	
44	54	98	15	52.1586	84.0248	
45	44	90	15	42.4996	78.6128	83.4001
46	37	87	15	35.7383	77.4244	

HTT ELO

REV	DATE	DESCRIPTION
1	08.19.08	30% DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND
2	08.24.08	REFLECT SUBMISSION TO CITY OF PORTLAND
3	10.21.08	SUBMITTED TO CITY OF PORTLAND
4	11.18.08	SUBMITTED TO CITY OF PORTLAND
5	12.18.08	RESUBMITTED TO CITY OF PORTLAND

PROJECT	CRESCENT HEIGHTS
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
FILE NAME	2827-SP
CHECKED	SRB
DESIGNED	SRB
DRAWN	DMG
DATE	SEPT 2008
SCALE	1" = 10'
SHEET	C-8

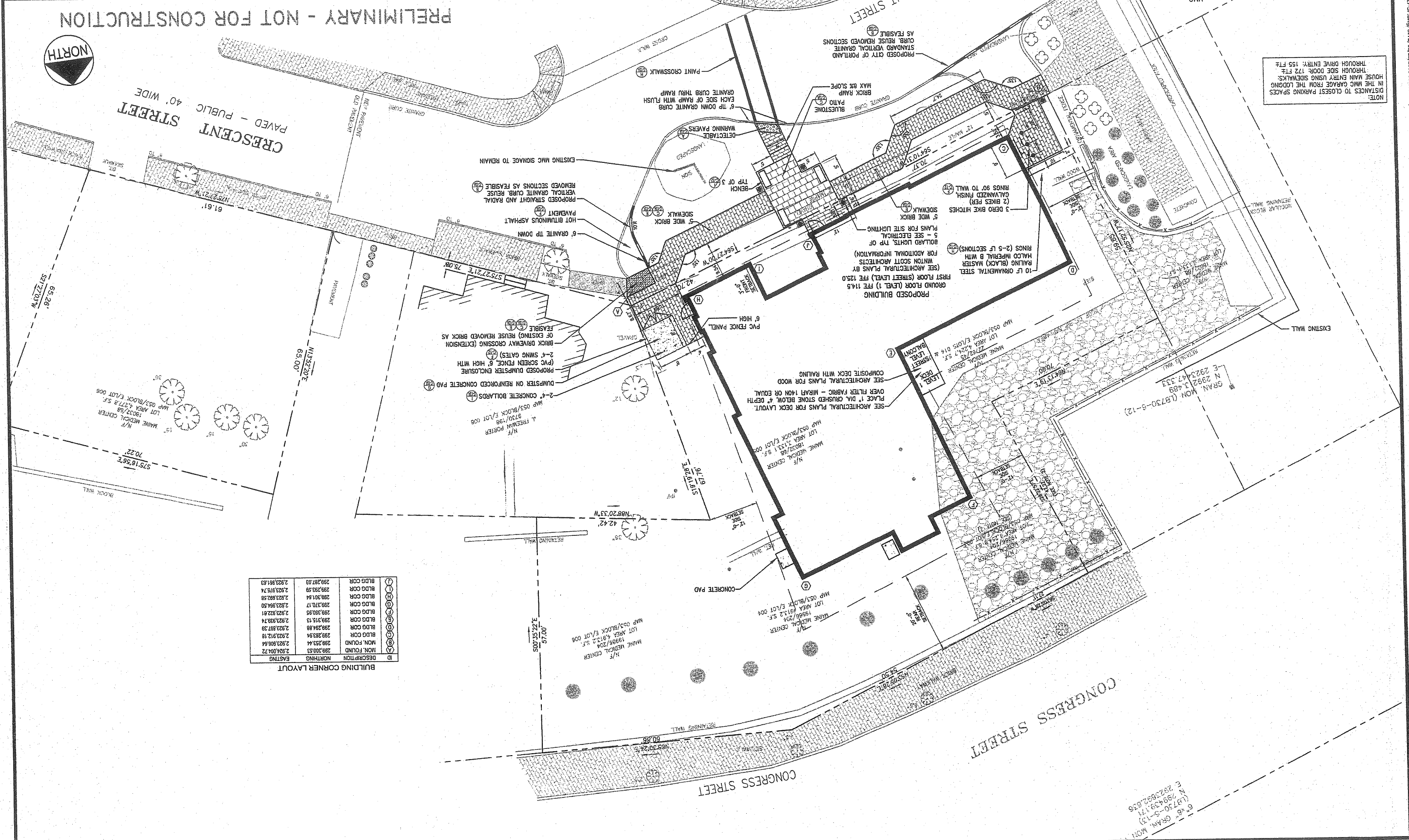
WESCOTT STREET



PRELIMINARY - NOT FOR CONSTRUCTION



CRESCENT STREET
PAVED - Public - 40' WIDE



NOTE:
DISTANCES TO CLOSEST PARKING SPACES IN THE MMC GARAGE FROM THE LOADING HOUSE MAIN ENTRY USING SIDEWALKS THROUGH DRIVE ENTRY: 155 FT.

ID	DESCRIPTION	EASTING
A	MON. FOUND	2,924,004.72
B	BLDG COR	2,923,808.64
C	BLDG COR	2,923,121.18
D	BLDG COR	2,923,827.39
E	BLDG COR	2,923,953.74
F	BLDG COR	2,923,928.81
G	BLDG COR	2,923,922.81
H	BLDG COR	2,923,922.81
I	BLDG COR	2,923,922.81
J	BLDG COR	2,923,922.81
K	BLDG COR	2,923,922.81
L	BLDG COR	2,923,922.81
M	BLDG COR	2,923,922.81
N	BLDG COR	2,923,922.81
O	BLDG COR	2,923,922.81
P	BLDG COR	2,923,922.81
Q	BLDG COR	2,923,922.81
R	BLDG COR	2,923,922.81
S	BLDG COR	2,923,922.81
T	BLDG COR	2,923,922.81
U	BLDG COR	2,923,922.81
V	BLDG COR	2,923,922.81
W	BLDG COR	2,923,922.81
X	BLDG COR	2,923,922.81
Y	BLDG COR	2,923,922.81
Z	BLDG COR	2,923,922.81

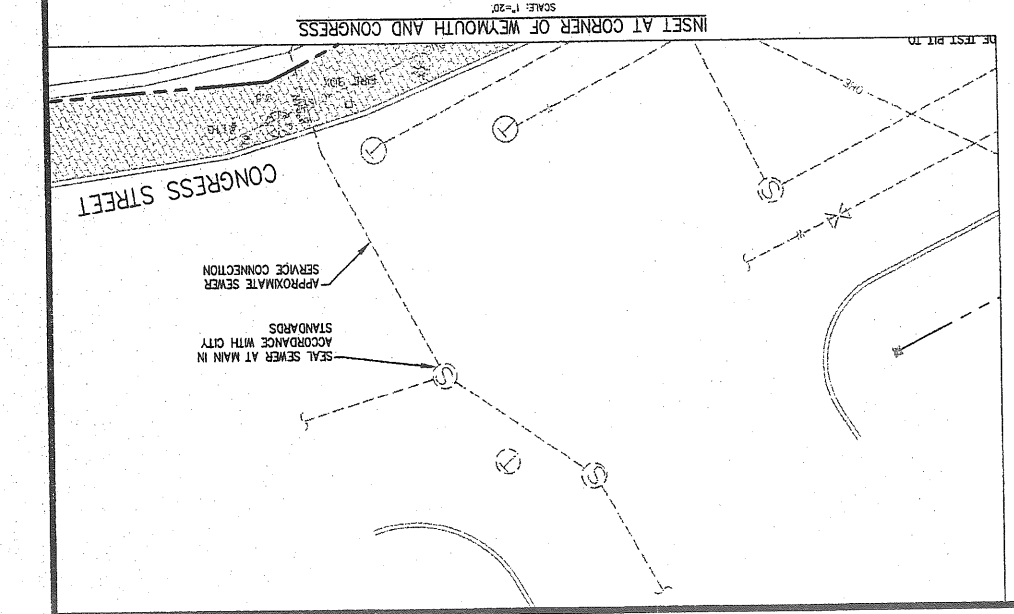
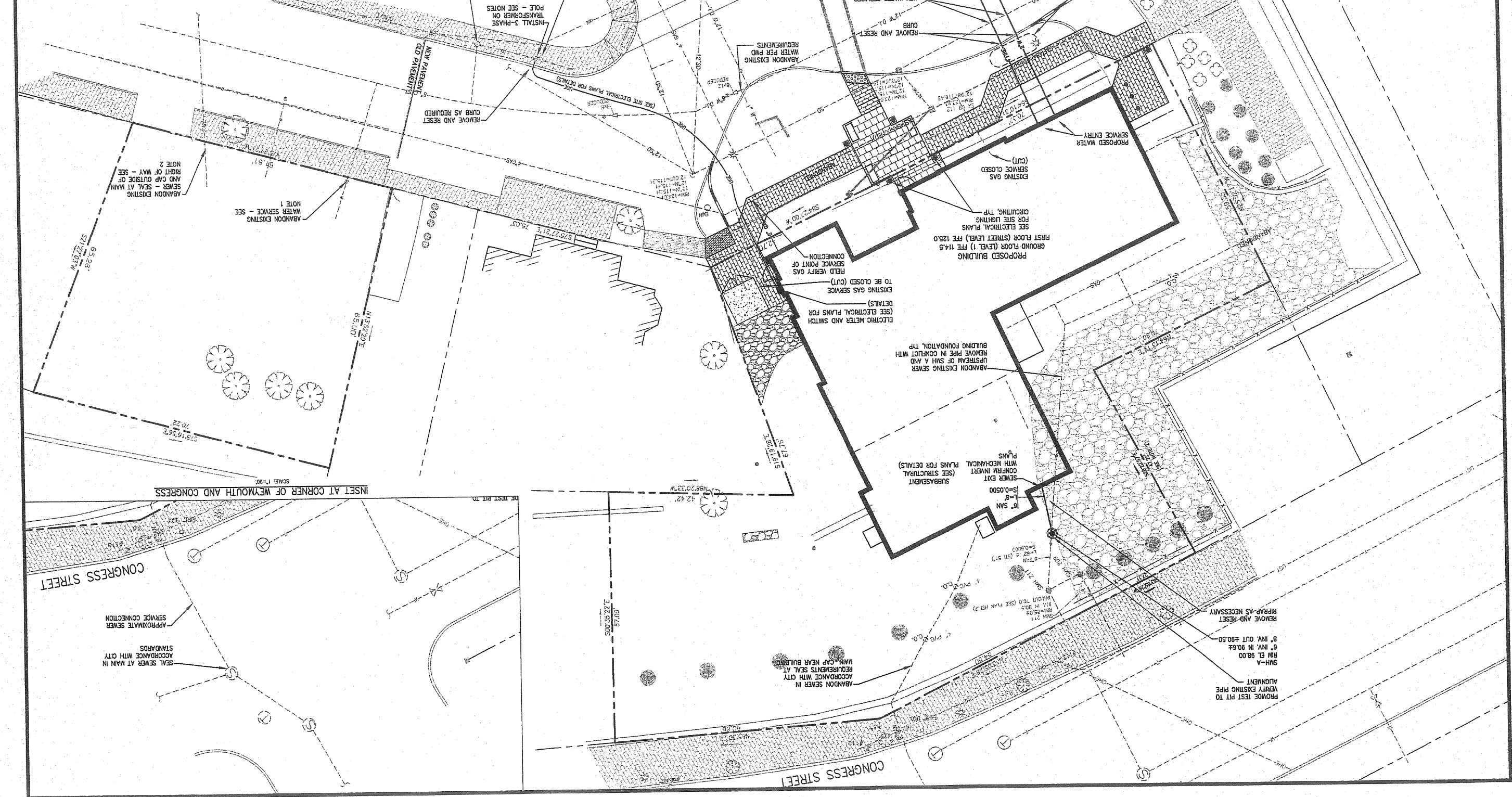
AA ET

PRELIMINARY - NOT FOR CONSTRUCTION

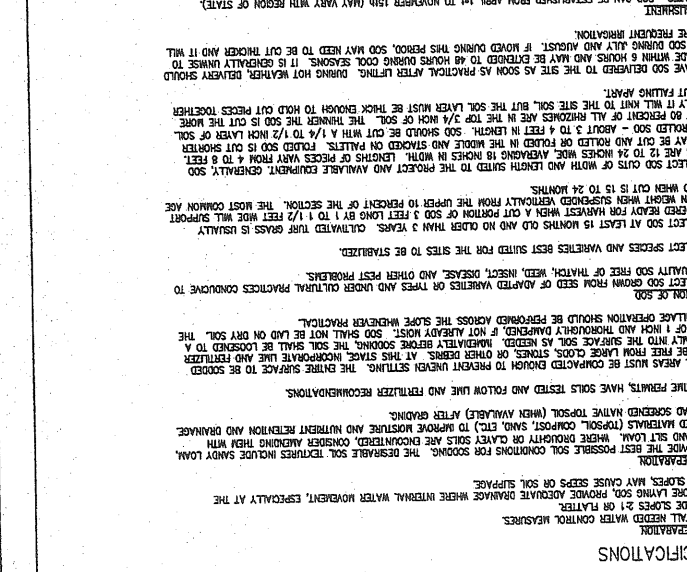
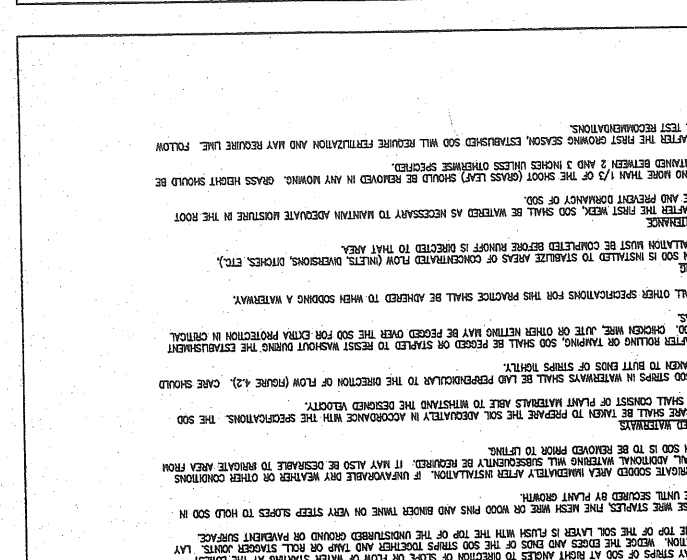
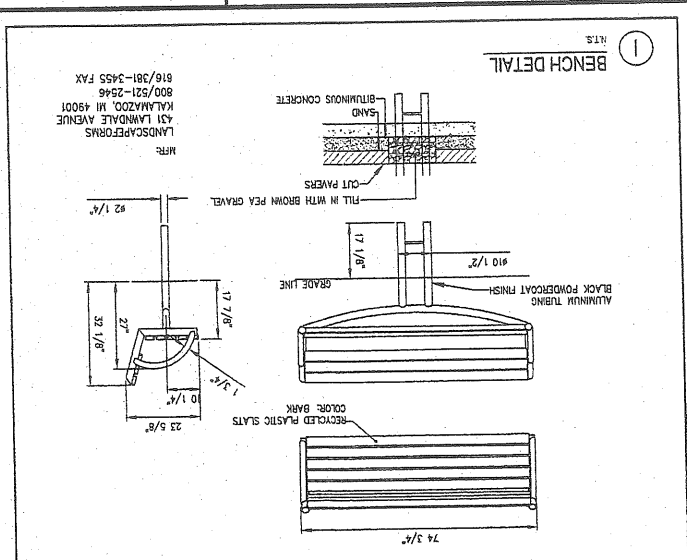
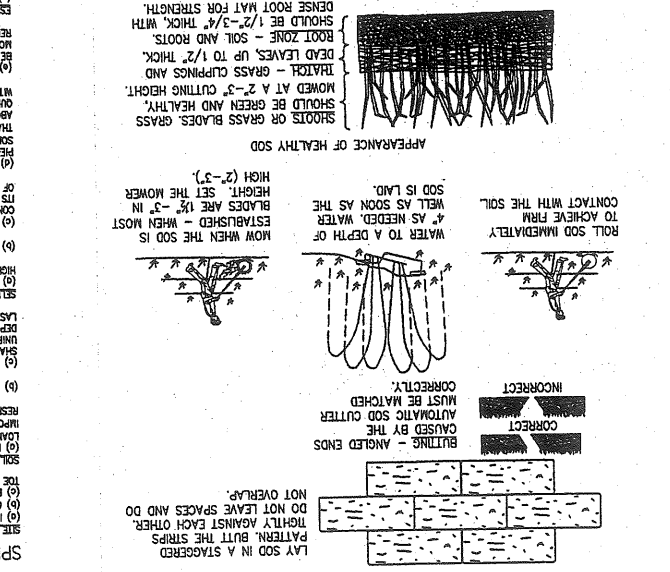
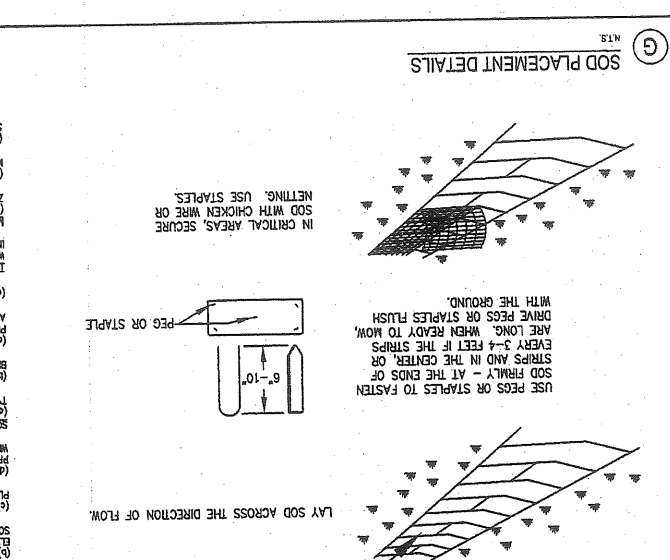
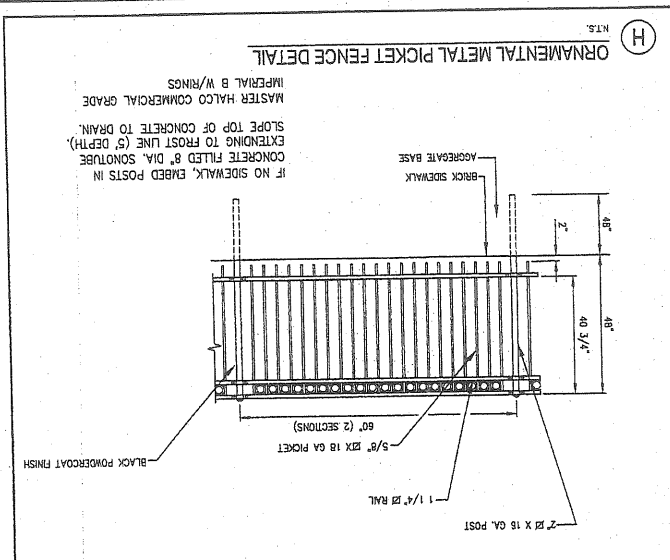
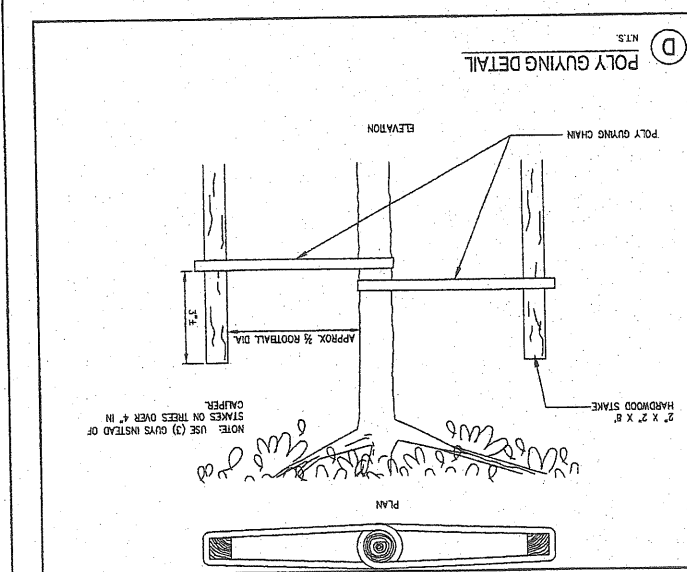
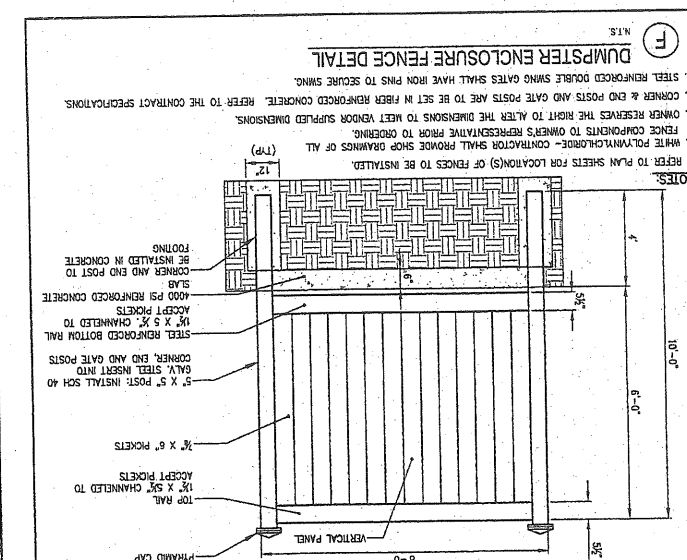
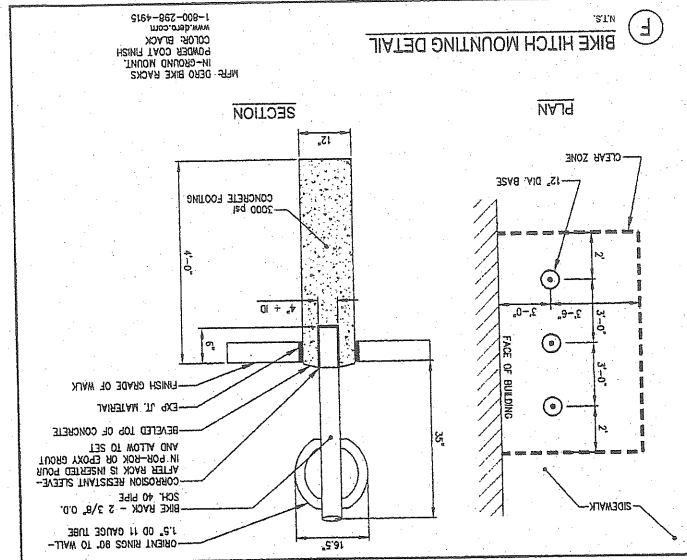
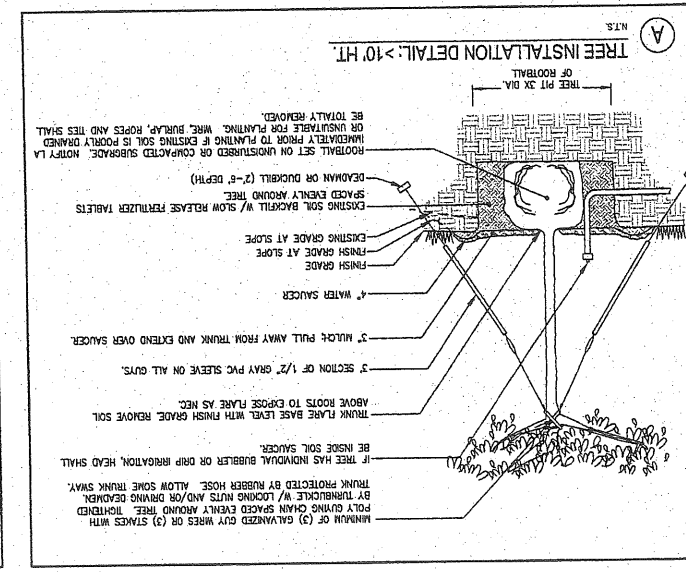
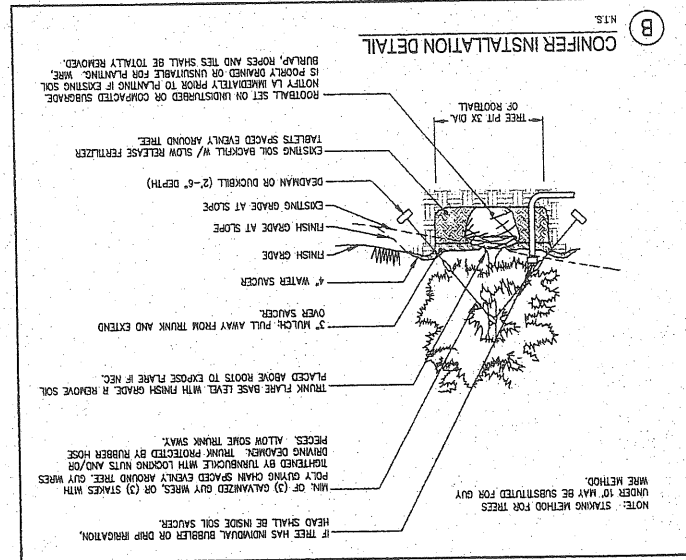
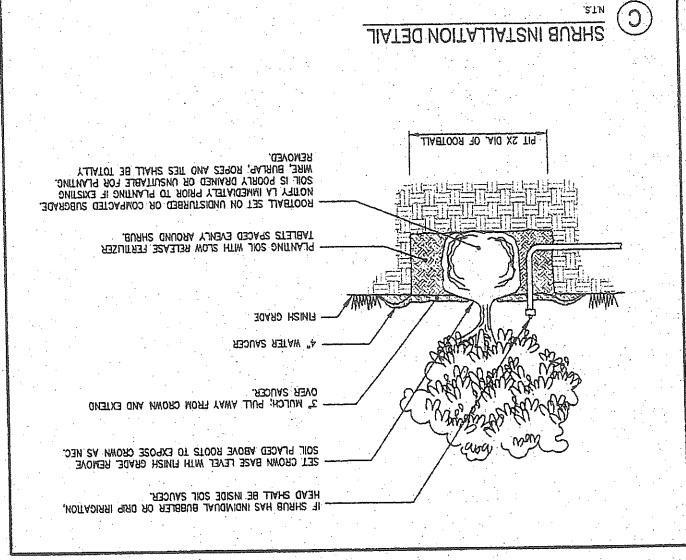
PROJECT	CRESCENT HEIGHTS
SHEET TITLE	UTILITY PLAN
CLIENT	CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
DESIGNED BY	DELUCA-HOFFMAN ASSOCIATES, INC.
CHECKED BY	DR. STEPHEN BUSHBY
DATE	SEPT 2008
SCALE	1" = 10'
JOB NO.	2827
FILE NAME	2827.SP
SHEET	C-10

REV	DATE	DESCRIPTION
1	09.18.08	PORTLAND 2008 DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND
2	09.24.08	REVISED SUBMISSION TO CITY OF PORTLAND
3	11.18.08	SUBMITTED TO CITY OF PORTLAND
4	12.18.08	RESUBMITTED TO CITY OF PORTLAND

NOTES:
 1) ALL EXCAVATION ACTIVITIES IN THE PUBLIC RIGHT OF WAY SHALL BE GOVERNED BY THE CITY OF PORTLAND RULES AND REGULATIONS FOR EXCAVATION ACTIVITIES IN PUBLIC RIGHT OF WAYS. ALL FEES AND PAYMENT RESTORATION REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT AN EXTRA COST TO THE OWNER.
 2) EXISTING WATER SERVICES SHALL BE ABANDONED IN ACCORDANCE WITH THE PWD REQUIREMENTS AT NO EXTRA COST TO THE OWNER.
 3) VERIFY AND COORDINATE ALL SITE ELECTRICAL WITH PLANS PREPARED BY BARTLETT DESIGN.



HTT E9

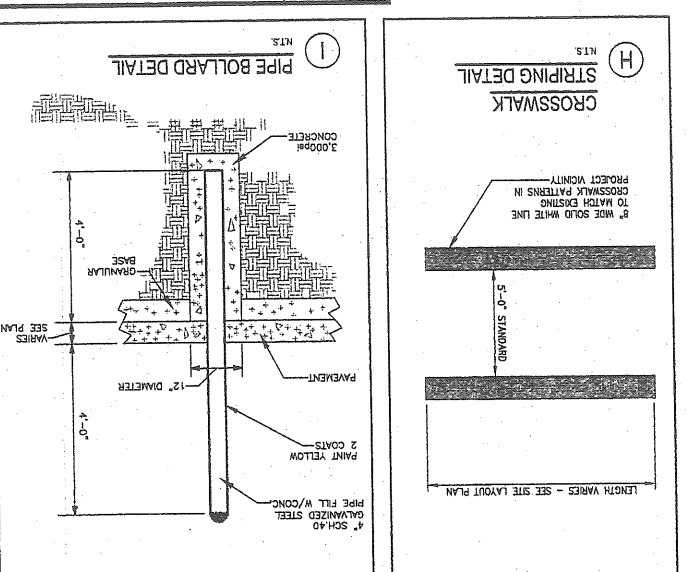
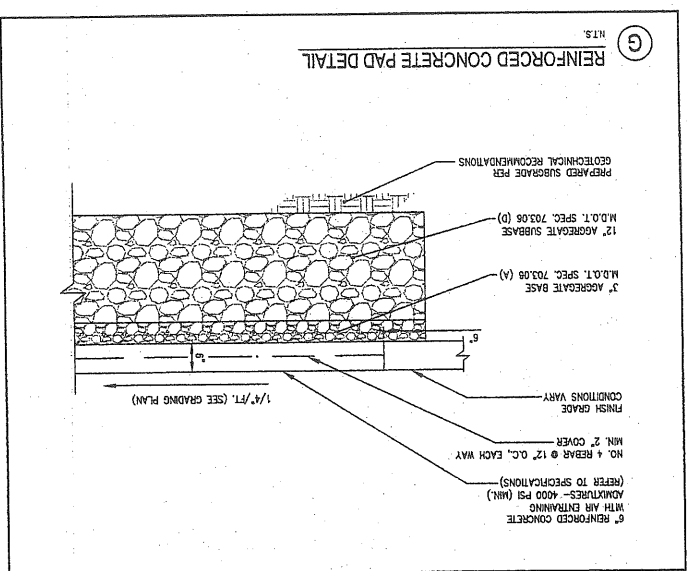
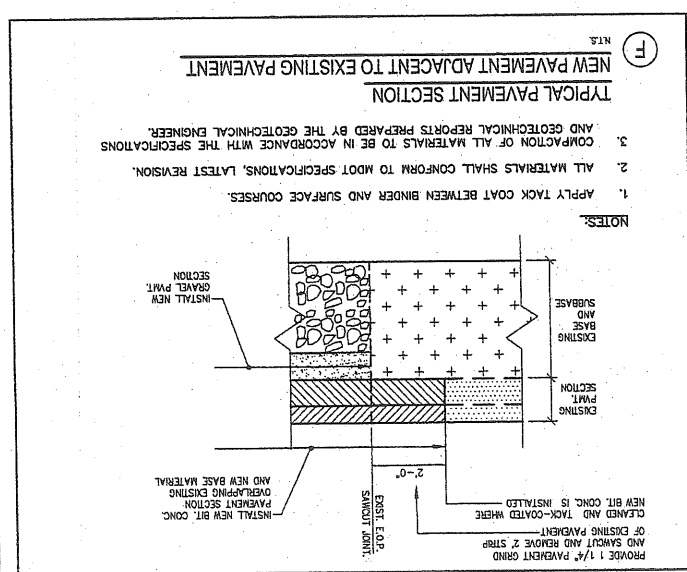
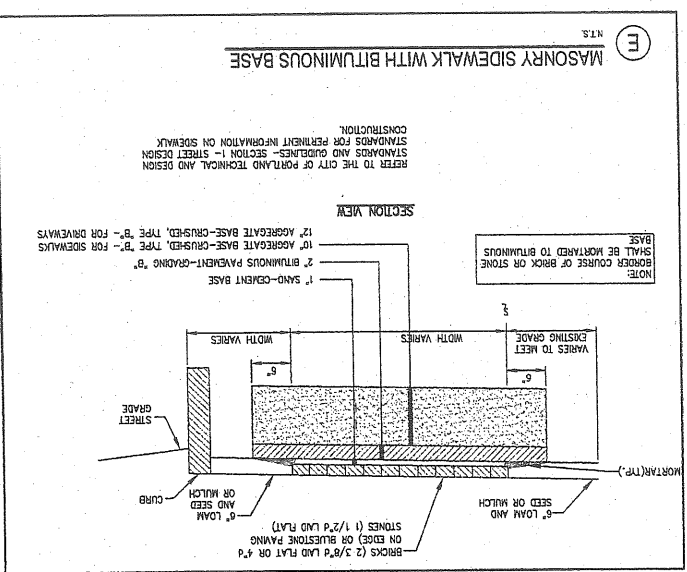
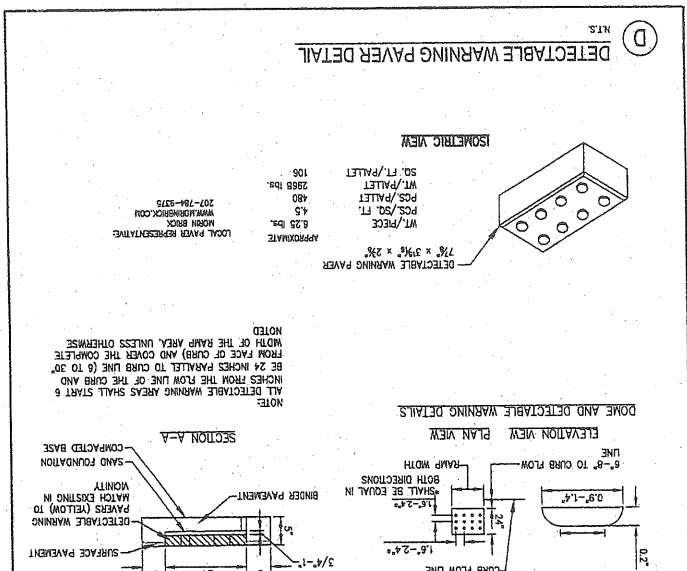
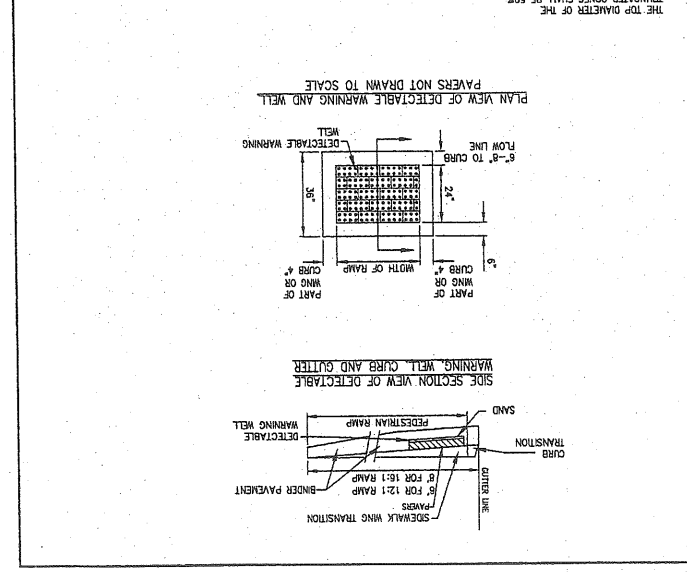
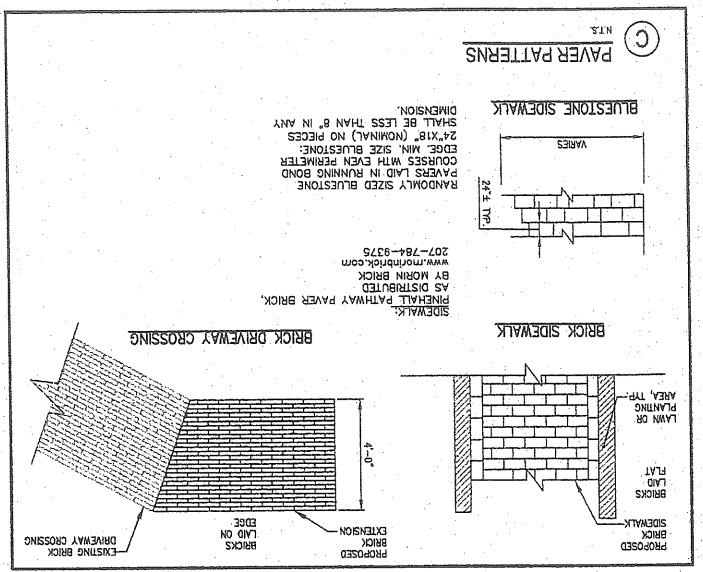
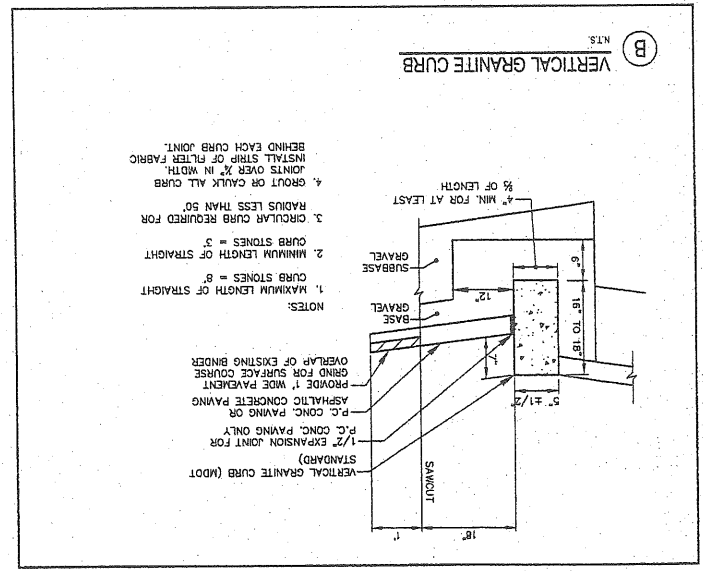
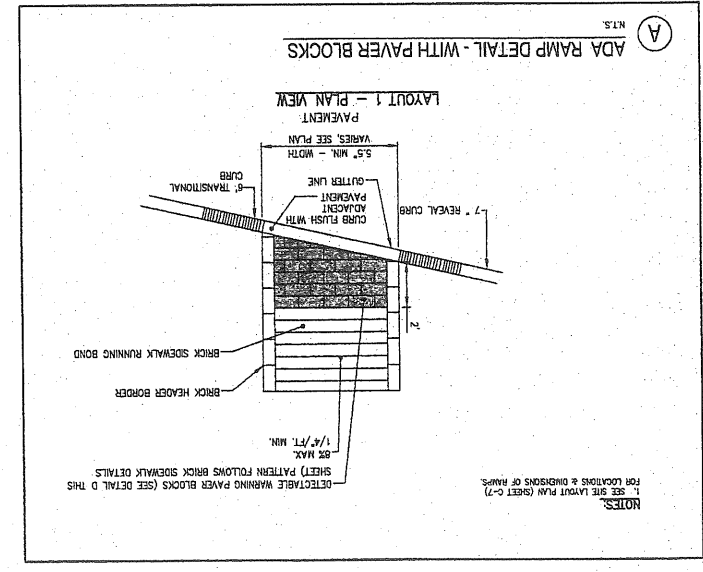


REV	DATE	DESCRIPTION
1	09.18.08	PLAN AND PRELIMINARY SUBMISSION TO CITY OF PORTLAND
2	09.24.08	REFLECT SUBMISSION TO CITY OF PORTLAND
3	11.18.08	SUBMITTED TO CITY OF PORTLAND
4	12.18.08	RESUBMISSION TO CITY OF PORTLAND

PROJECT: CRESCENT HEIGHTS
 SHEET TITLE: LANDSCAPE AND SITE FURNISHING DETAILS
 CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WANTON SCOTT ARCHITECTS
 SHEET #472893
 SHEET: E. BRUNELLE, RLA

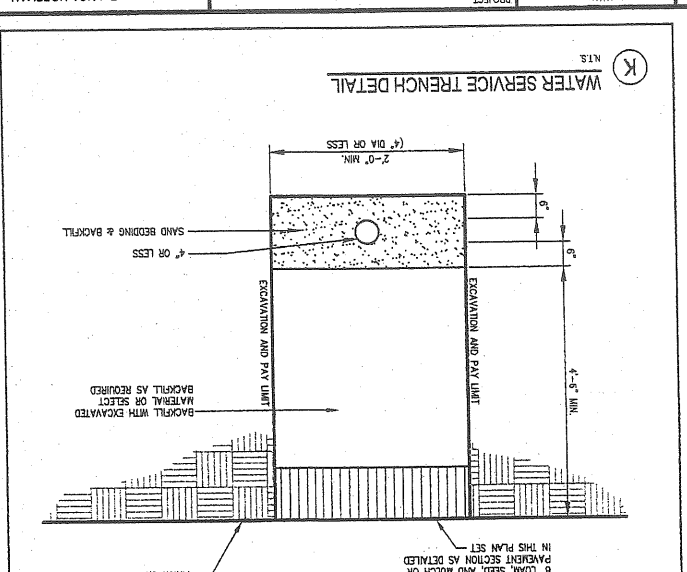
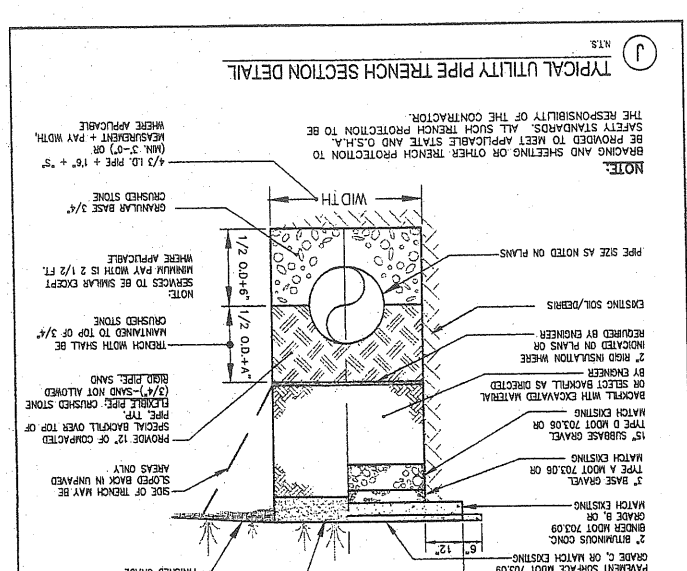
PROJECT: DALUCAHOFFMAN ASSOCIATES, INC.
 775 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106
 WWW.DALUCAHOFFMAN.COM
 DRAWN: DATE: OCT 2008
 DESIGNED: SSB SCALE: AS NOTED
 CHECKED: SPS JOB NO. 2827
 FILE NAME: 2827-DET
 SHEET: C-12

Att. C11



TRENCH SECTION BACKFILL SCHEDULE

TYPE OF PIPE	SPECIAL MATERIAL	SPECIAL BACKFILL	DEPTH (ft)	CONCRETE OR AASHTO M45-49 A-3 OR BETTER	GRANULAR AASHTO M45-49 A-3 OR BETTER	3/4" CRUSHED GRANULAR AASHTO M45-49 A-3 OR BETTER	PVC OR AASHTO M45-49 A-3 OR BETTER	GRANULAR AASHTO M45-49 A-3 OR BETTER	DUCTILE IRON OR AASHTO M45-49 A-3 OR BETTER	UNDERDRAIN SAND	DRAINS
PIPE	GRANULAR BASE	BACKFILL COVER	4"								
			4"								
			12"								
			6"								
			6"								
			6"								



REVISIONS

REV	DATE	DESCRIPTION
1	09.19.08	2008 DESIGN DEVELOPMENT/PRELIMINARY SUBMISSION TO CITY OF PORTLAND
2	02.24.08	REVISED SUBMISSION TO CITY OF PORTLAND
3	11.18.08	SUBMITTED TO CITY OF PORTLAND
4	12.18.08	RESUBMISSION TO CITY OF PORTLAND

PROJECT
 CRESCENT HEIGHTS

SHEET TITLE
 SITE AND UTILITY DETAILS

CLIENT
 CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS

DRAWN
 DMS

CHECKED
 SRS

DATE
 OCT 2008

SCALE
 AS NOTED

FILE NAME
 2827-DET

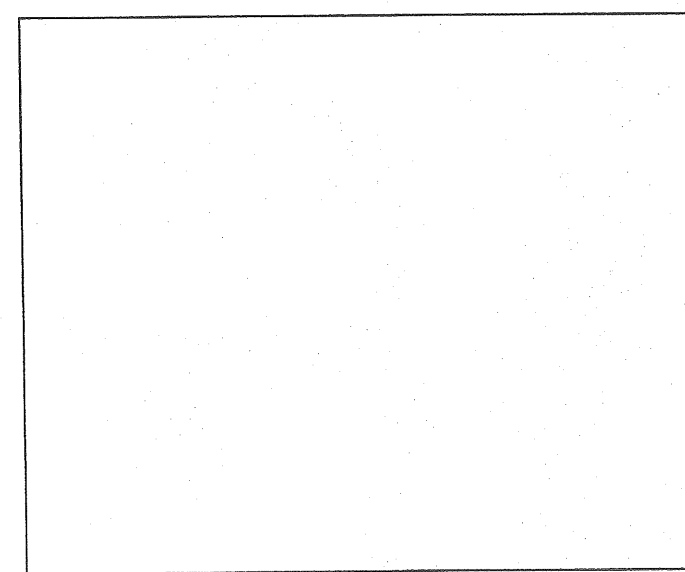
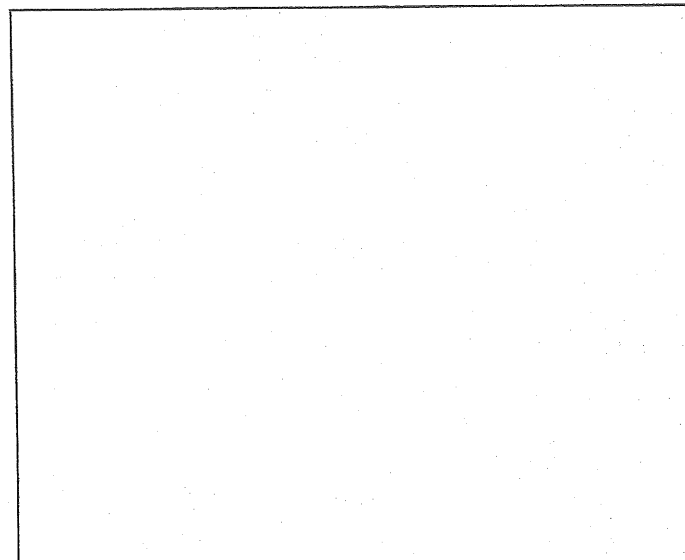
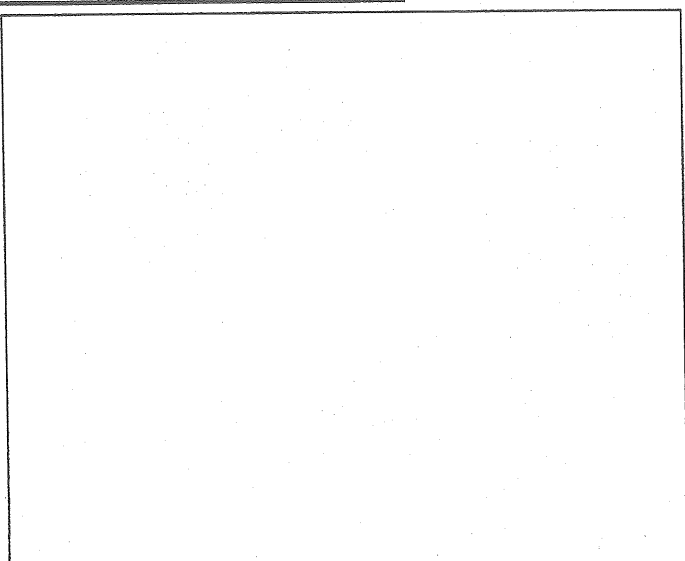
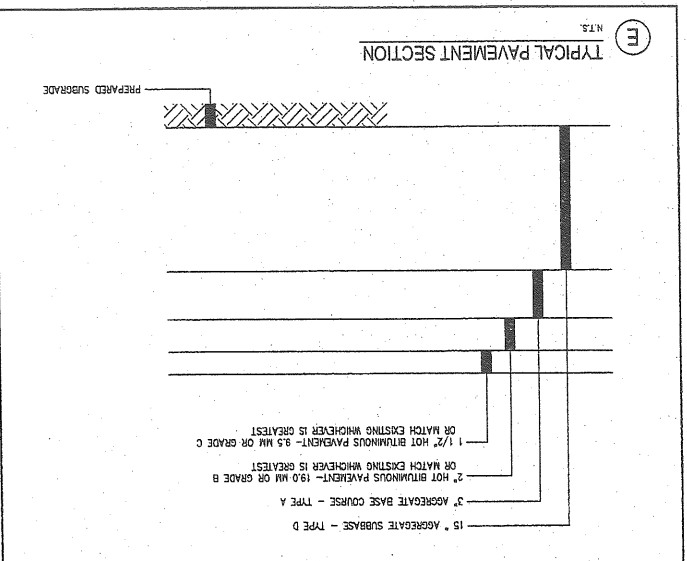
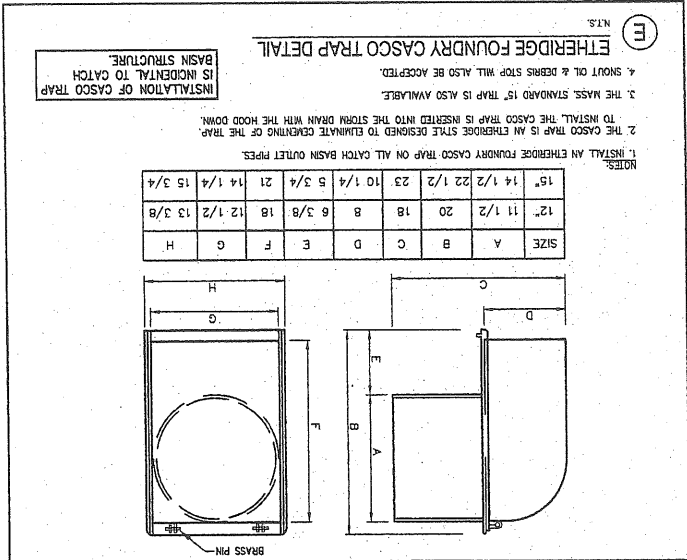
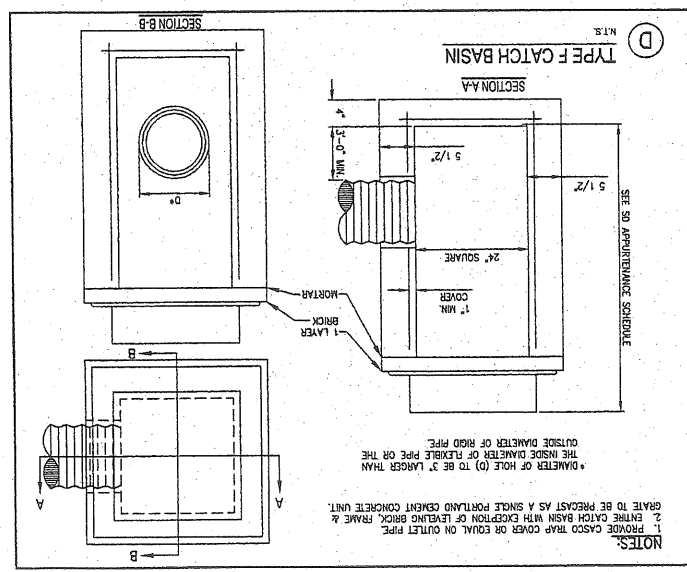
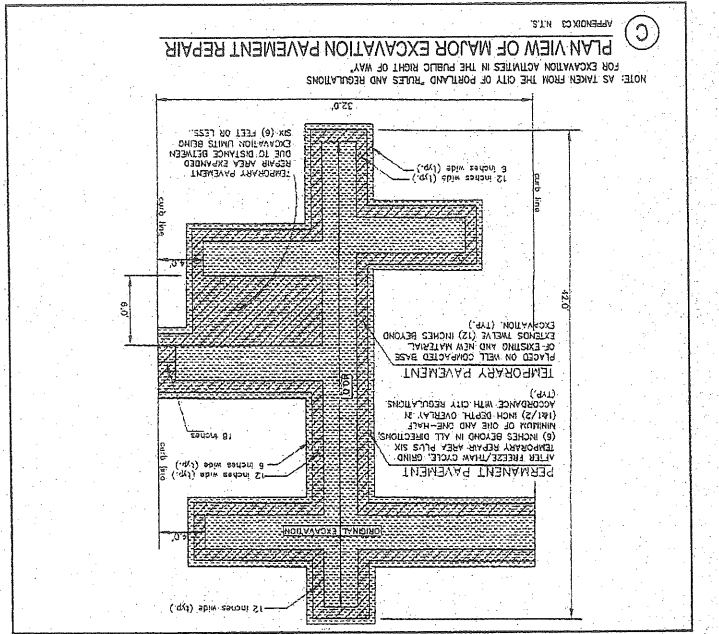
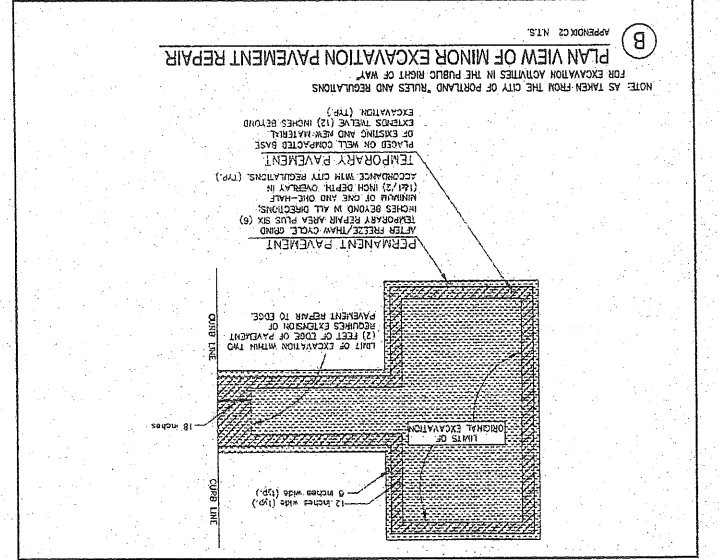
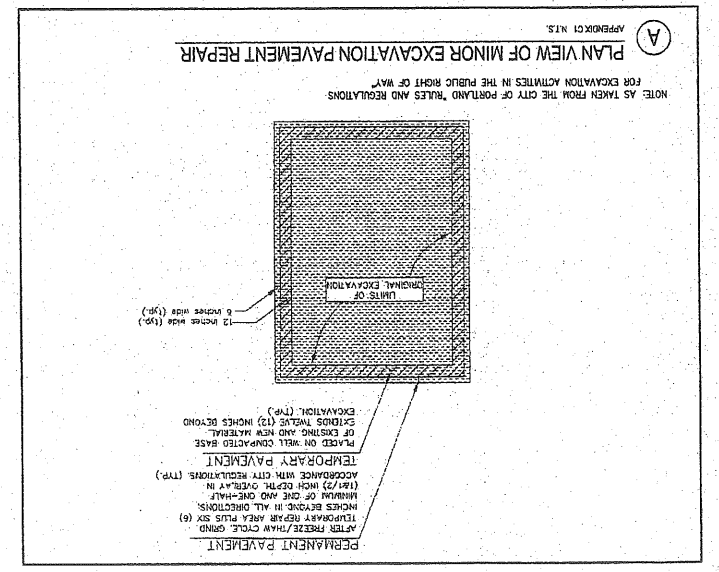
SHEET
 C-13A

STATE OF MAINE
 PROFESSIONAL ENGINEER
 LICENSE NO. 10429
 STEPHEN D. HOFFMAN

ASSOCIATES, INC.
 200 MARKET STREET
 PORTLAND, ME 04108
 WWW.DELUCAHOFFMAN.COM

DELUCAHOFFMAN

HT E12



REV	DATE	DESCRIPTION
1	12.18.08	RESUBMISSION TO CITY OF PORTLAND

REVISIONS

PROJECT: CRESCENT HEIGHTS
 SHEET TITLE: SITE AND UTILITY DETAILS
 CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
 DRAWN: [Signature]
 CHECKED: [Signature]
 DATE: OCT 2008
 SCALE: AS NOTED
 JOB NO.: 2827
 FILE NAME: 2827-DET
 SHEET: C-13B

STATE OF MAINE
 LICENSED PROFESSIONAL ENGINEER
 R.E. STEPHEN BUSHBY
 U.C. #17429

PROJECT: CRESCENT HEIGHTS
 SHEET TITLE: SITE AND UTILITY DETAILS
 CLIENT: CRESCENT HEIGHTS LLC IN ASSOCIATION WITH WINTON SCOTT ARCHITECTS
 DRAWN: [Signature]
 CHECKED: [Signature]
 DATE: OCT 2008
 SCALE: AS NOTED
 JOB NO.: 2827
 FILE NAME: 2827-DET
 SHEET: C-13B

DLUCAHOFFMAN ASSOCIATES, INC.
 77 MAIN STREET, SUITE 207
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MTT C1a.1

