THE TOWN OF BELMONT

PLAN AND PROFILE OF

ROADWAY IMPROVEMENTS

IN THE TOWN OF

BELMONT
MIDDLESEX COUNTY

ALL WORK DONE UNDER THIS CONTRACT SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012, AND THE INTERIM SUPPLEMENTAL SPECIFICATIONS; THE 2012 CONSTRUCTION STANDARD DETAILS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH MASSACHUSETTS AMENDMENTS AND THE STANDARD MUNICIPAL TRAFFIC CODE; THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING; THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK; THE PLANS AND SPECIAL PROVISIONS.

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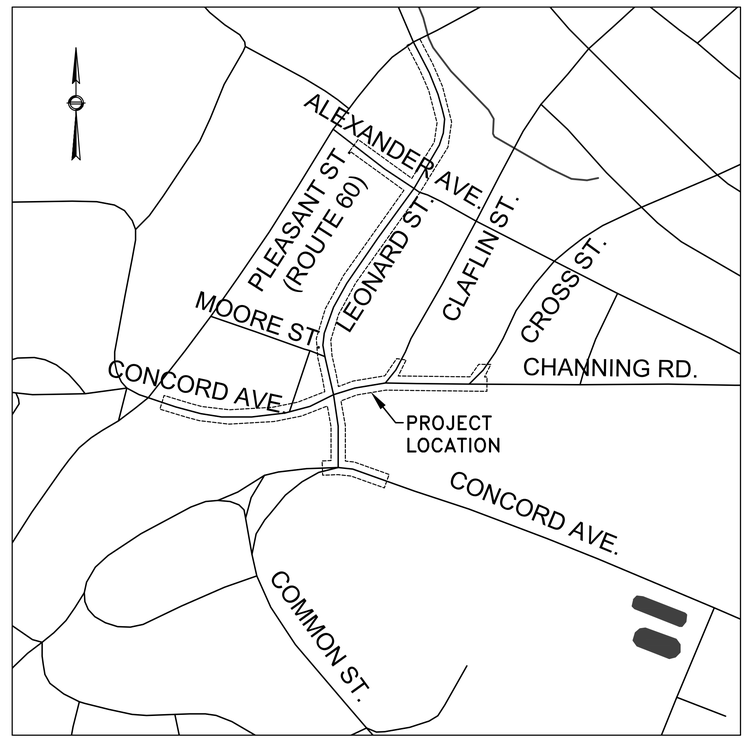

LOCATION MAP
1" = 250'

LENGTH OF PROJECT = 3,687± - 0.69± MILES

SEMI-FINAL DESIGN

SUBMISSION DATE
SEPTEMBER 2013

CONVENTIONAL SIGNS

COUNTY, CITY, OR TOWN BOUNDARY
COUNTY, CITY, OR TOWN SIDE LINE
FENCE LINE
BASE LINE OR SURVEY LINE — N57°-18'-41"E, 74, 59.57
RIGHT OF WAY LINE
CULVERT
ELEVATIONS — PROPOSED SURFACE; SURFACE; EXIST.; PRES. 222.4; 223.68 PROP.; 74
UTILITY POLE

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LEGEND

EXISTING	PROPOSED	DESCRIPTION
UTILITIES		
	CB	CATCH BASIN (OR GUTTER INLET)
	CBCI	CATCH BASIN WITH CURB INLET
D	12" R.C.P.	DRAIN PIPE
D	DMH	DRAINAGE MANHOLE
UGE	12" P.V.C. ELEC.	ELECTRIC DUCT
E	EMH	ELECTRIC MANHOLE
	G GG	GAS GATE
G	12" P.V.C. GAS	GAS MAIN
S	12" P.V.C. SEWER	SEWER MAIN
S	SMH	SEWER MANHOLE
D	8" SD	SUBDRAIN
T	12" P.V.C. TELE.	TELEPHONE DUCT
T	TMH	TELEPHONE MANHOLE
		UTILITY PLUG
WV	WG	WATER GATE
W	WMH	WATER MANHOLE
W	12" P.V.C. WATER	WATER MAIN
SURFACE DETAILS/TOPO		
12 N00°00'00"E 57.59	74+00 N57° 18' 41"E 300.00'	BASE/SURVEY LINE
(NAME)		CITY, TOWN OR COUNTY BOUNDARY
		CURB (OR BERM) – TYPE NOTED
		EDGE OF ROAD
		CHANGE IN PVM'T TYPE
		EASEMENT
	x x	FENCE (SIZE AND TYPE NOTED)
		HIGHWAY GUARD (TYPE NOTED)
		HIGHWAY/PROPERTY BOUND (TYPE NOTED)
		PROPERTY LINE
		STATE BOUNDARY
R.O.W	R.O.W	STATE HIGHWAY LAYOUT LINE
R.O.W	R.O.W	TOWN HIGHWAY LAYOUT LINE
		TREE (SIZE AND TYPE NOTED)
		WHEEL CHAIR RAMP
MISCELLANEOUS		
B-#	B-#	BORING
F	F	FIRE ALARM BOX
		HYDRANT
M	M	MAILBOX – COMMERCIAL
M	M	MAILBOX – RESIDENTIAL
P-#	P-#	PROBE
		STREET LIGHT
T-#	T-#	TEST PIT
		WOODEN POLE

EXISTING	PROPOSED	DESCRIPTION
TRAFFIC, PAVEMENT MARKINGS & SIGNING		
		CONDUIT
		CONTROL CABINET – GROUND MOUNTED
		CONTROL CABINET – POLE MOUNTED
ø1	ø1	CONTROLLER PHASE
	CW	CROSSWALK
		DIRECTION OF FLOW
EHH	EHH	ELECTRIC HANDHOLE
		EMERGENCY CONFIRMATION BEACON
		FLASHING BEACON (ALPHA–NUMERIC DESIGNATION NOTED)
		INTERCONNECT CABLE
		INDUCTIVE LOOP DETECTOR
		LIMIT OF VISIBILITY OF OPTICALLY PROGRAMMED SIGNAL HEAD
M	M	MAGNETIC DETECTOR
	30'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		OPTICAL EMERGENCY DETECTOR
OHE	OHE	OVERHEAD CABLE
		PAVEMENT ARROW AND LEGEND
		PEDESTRIAN PUSH BUTTON
		PEDESTRIAN SIGNAL HEAD (ALPHA–NUMERIC DESIGNATION NOTED)
PB		PULL BOX 12" X 12"
PB		PULL BOX 8" X 23", 12" X 24"
		RAISED PAVEMENT MARKER: TWO–WAY YELLOW
		RAISED PAVEMENT MARKER: ONE–WAY WHITE
		RAISED PAVEMENT MARKER: YELLOW/RED
		SIGN AND POST
R1–1	R1–1	SIGN LEGEND
TS		SIGNAL POST AND BASE
		VEHICULAR SIGNAL HEAD (ALPHA–NUMERIC DESIGNATION NOTED)
		VEHICULAR SIGNAL HEAD OPTICALLY PROGRAMMED (ALPHA–NUMERIC DESIGNATION NOTED)
		" X " DUCT (CONCRETE ENCASED)
		YAGI ANTENNA

ABBREVIATIONS

R	CIRCULAR RED
Y	CIRCULAR AMBER
G	CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
FY	FLASHING CIRCULAR AMBER
	45° ARROW RED
	45° ARROW AMBER
	45° ARROW GREEN
	135° ARROW RED
	135° ARROW AMBER
	135° ARROW GREEN
	LEFT ARROW RED
	LEFT ARROW AMBER
	LEFT ARROW GREEN
	RIGHT ARROW RED
	RIGHT ARROW AMBER
	RIGHT ARROW GREEN
	VERTICAL ARROW GREEN
	WALK – LUNAR WHITE
F	FLASHING DON'T WALK – PORTLAND ORANGE
	DON'T WALK – PORTLAND ORANGE
ABAN.	ABANDON
ADJ.	ADJUST
B.O.	BY OTHERS
BOC	BEGINNING OF CURB
C.I.T.	CHANGE IN TYPE
D.I.P.	DUCTILE IRON PIPE
EOC	END OF CURB
F.E.	FLARED END
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
H.M.A.	HOT MIX ASPHALT
MA	MAST ARM
N.I.C.	NOT IN CONTRACT
P.B.S.	PAINTED BOTH SIDES
P.W.W.	PAVED WATERWAY
R.C.P.	REINFORCED CONCRETE PIPE
REM.	REMOVE
REMOD.	REMODEL
RET.	RETAIN
R&D	REMOVE & DISCARD
R&R	REMOVE & RESET
R&S	REMOVE & STACK
R&T	REMOVE & TRANSPORT
SGE	SLOPED GRANITE EDGING
VGC	VERTICAL GRANITE CURB
BWLL	BROKEN WHITE LANE LINE, 6" (10' MARK – 30' SKIP)
BYCL	BROKEN YELLOW CENTER LINE, 6" (10' MARK – 30' SKIP)
CW	CROSSWALK
DWLL	DOTTED WHITE LANE LINE, 6" (2' MARK – 4' SKIP)
DYCL	DOUBLE YELLOW CENTER LINE, 6"
SL	STOP LINE, 12", 4' BEHIND CW
SWCHL	SOLID WHITE CHANNELIZATION LINE, 12"
SWEL	SOLID WHITE EDGE LINE, 6"
SWLL	SOLID WHITE LANE LINE, 6"
SYCHL	SOLID YELLOW CHANNELIZATION LINE, 12"
SYEL	SOLID YELLOW EDGE LINE, 6"
WCL	WHITE CHEVRON LINE, 12" (SPACED 10' O.C. UNLESS OTHERWISE NOTED)
WTL	WHITE TRANSVERSE LINE, 12" (SPACED 10' O.C. UNLESS OTHERWISE NOTED)
YTL	YELLOW TRANSVERSE LINE, 12" (SPACED 10' O.C. UNLESS OTHERWISE NOTED)

GENERAL NOTES

1. ALL NEW GRANITE CURB SHALL BE TYPE VB UNLESS OTHERWISE NOTED.
2. ALL GRANITE CURB SHALL BE SET TO HAVE A 6" REVEAL ABOVE FINAL PAVEMENT GRADES (UNLESS OTHERWISE NOTED).
3. ALL BASELINE TIES FOR CURB CORNERS AND RADII ARE TO THE P.C.'S OR P.T.'S, UNLESS OTHERWISE NOTED. WHERE PROPOSED CURB MEETS EXISTING CURB, BERM, ROADWAY, AND/OR DRIVEWAY PAVEMENT EDGES, MINOR FIELD ADJUSTMENTS TO EITHER THE DESIGNATED RADIUS OR THE DESIGNATED STATION OF THE P.C. OR P.T. FOR THE PROPOSED CURB OR BERM MAY BE REQUIRED. THESE ADJUSTMENTS SHALL BE MADE IN THE FIELD BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT ENGINEER.
4. ALL EXISTING MUNICIPAL UTILITY CASTINGS THAT ARE TO REMAIN WITHIN AREAS TO BE REPAVED SHALL BE ADJUSTED TO LINE AND GRADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL PRIVATE TELEPHONE, GAS, AND ELECTRICAL CASTINGS SHALL BE ADJUSTED BY OTHERS.
5. CONTRACTOR MUST MAINTAIN EXISTING CLEARANCES UNDER ALL BRIDGES.
6. THE LOCATIONS OF EXISTING SUBSURFACE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM AVAILABLE RECORD DRAWINGS AND ARE NOT WARRANTED TO BE CORRECT. THE LOCATIONS ARE APPROXIMATE ONLY AND IN SOME CASES MAY BE INCOMPLETE. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES REQUIRED AND VERIFY THE LOCATIONS OF ALL EXISTING SUBSURFACE UTILITIES PRIOR TO PERFORMING ANY WORK.
7. PRIOR TO THE INSTALLATION OF PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE TEST PITS AT LOCATIONS OF UTILITY CROSSINGS TO VERIFY DEPTHS OF EXISTING PIPES, CONDUITS OR OTHER FACILITIES, AS DIRECTED BY ENGINEER.
8. THE CONTRACTOR SHALL ENSURE THAT ALL ROADWAY RUNOFF SHALL BE DIRECTED TO CATCH BASINS.
9. THE CONTRACTOR SHALL VERIFY ALL OUTLET GRADES OF DRAINAGE STRUCTURES PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS.
10. THE CONTRACTOR SHALL SAWCUT TO THE FULL PAVEMENT DEPTH AT BOUNDARIES BETWEEN FULL DEPTH CONSTRUCTION OR RECLAMATION AND EXISTING PAVEMENT.
11. EXCEPT AS NOTED, ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
12. BASE MAPPING PREPARED BY THE BSC GROUP, INC.
13. ALL WHEELCHAIR RAMPS SHALL BE CONSTRUCTED TO COMPLY WITH THE LATEST MASSDOT STANDARDS.
14. ALL AREAS OUTSIDE OF THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S OWN EXPENSE.
15. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM DAMAGE CAUSED BY CONTRACTORS OPERATIONS.

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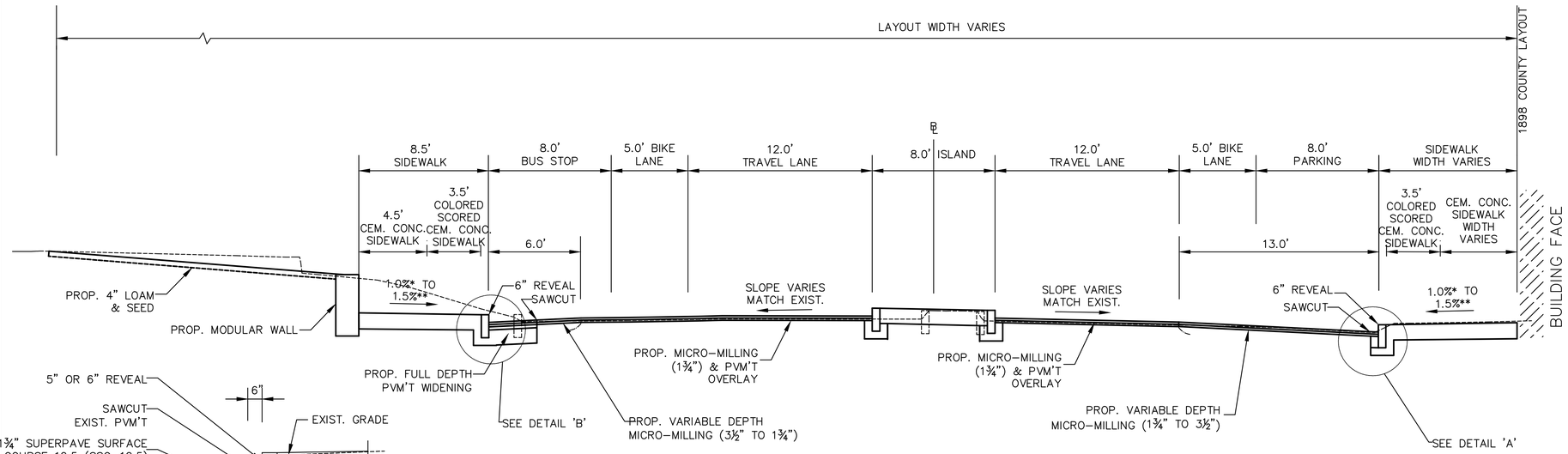
455 CONCORD AVENUE
BELMONT, MASSACHUSETTS

SHEET TITLE:
BELMONT CENTER IMPROVEMENTS
BELMONT, MASSACHUSETTS

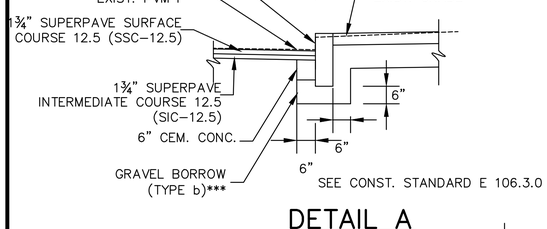
LEGEND AND GENERAL NOTES

DATE: SEPTEMBER 9, 2013



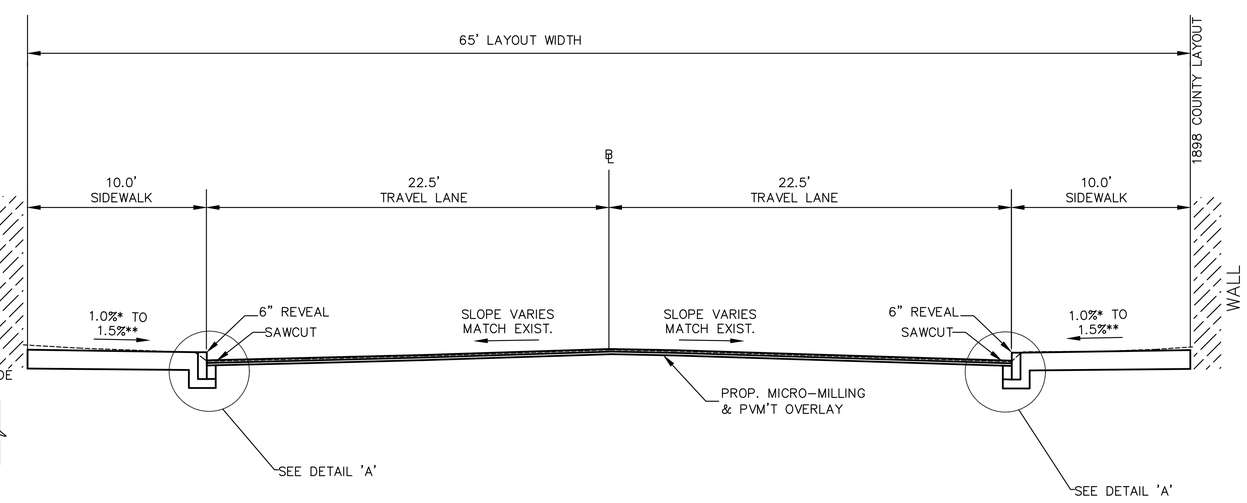
LEONARD STREET (STA 3+40 TO 4+00)

SCALE: 1" = 4'



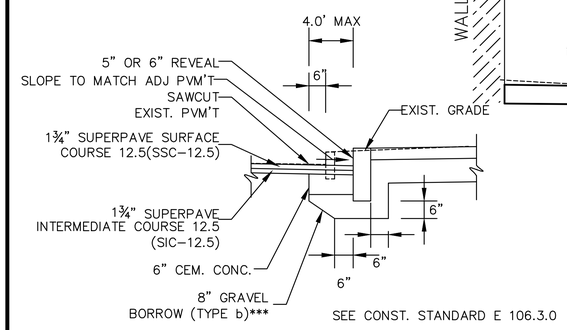
DETAIL A
RESET CURB

N.T.S.



LEONARD STREET (STA 0+75 TO 1+75)

SCALE: 1" = 4'



DETAIL B
FULL DEPTH PVM'T WIDENING < 4'

N.T.S.

PAVEMENT NOTES

VARIABLE DEPTH PAVEMENT MILLING AND OVERLAY (LEONARD ST.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.07 GAL/SY TACK COAT OVER
1¾" MIN (AT GUTTER) TO 3½" MAX (AT CL) MICROMILLING

PAVEMENT MILLING AND OVERLAY (LEONARD ST.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.07 GAL/SY TACK COAT OVER
3½" MICROMILLING

PAVEMENT REPLACEMENT (LEONARD ST.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC-19.0)

FOUNDATION: EXISTING SUB-BASE MATERIAL

FULL DEPTH PAVEMENT PATCH (LEONARD ST.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC-19.0)

FOUNDATION: 12" GRAVEL BORROW TYPE B***

PAVEMENT REMOVAL & REPLACEMENT (LEONARD ST., ALEXANDER AVE.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC-19.0)

FOUNDATION: EXISTING SUBBASE

PAVEMENT RECLAIM (CONCORD AVE. (WEST))

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC-19.0) OVER
4" DENSE GRADED CRUSHED STONE

FOUNDATION: RECLAIM EXISTING PAVEMENT TO A DEPTH OF 15"
RETAIN 6" (MIN.) OF RECLAIMED MATERIAL

FULL DEPTH PAVEMENT WIDENING (CONCORD AVE. (WEST))

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC-19.0) OVER
4" DENSE GRADED CRUSHED STONE

FOUNDATION: 12" RECLAIMED MATERIAL****

FULL DEPTH PAVEMENT PATCH (CONCORD AVE. (WEST))

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC-19.0) OVER
4" DENSE GRADED CRUSHED STONE

FOUNDATION: 8" GRAVEL BORROW TYPE B***

CONTINUED ON SHEET 4

*.....1.5% PREFFERED
**.....CONSTRUCTION TOLERANCE ±0.5%
***.....NEW FOUNDATION TO BE PLACED ONLY WHERE EXISTING SUBBASE MATERIAL FAILS TO MEET REQUIREMENTS M1.03.0 TYPE b AND AS DIRECTED BY THE ENGINEER.
****.....GRAVEL BORROW, TYPE b SHALL BE USED IN PLACE OF RECLAIMED MATERIAL ONLY IF SURPLUS MATERIAL IS NOT AVAILABLE, AND THEN ONLY IF APPROVED BY THE ENGINEER/TOWN.

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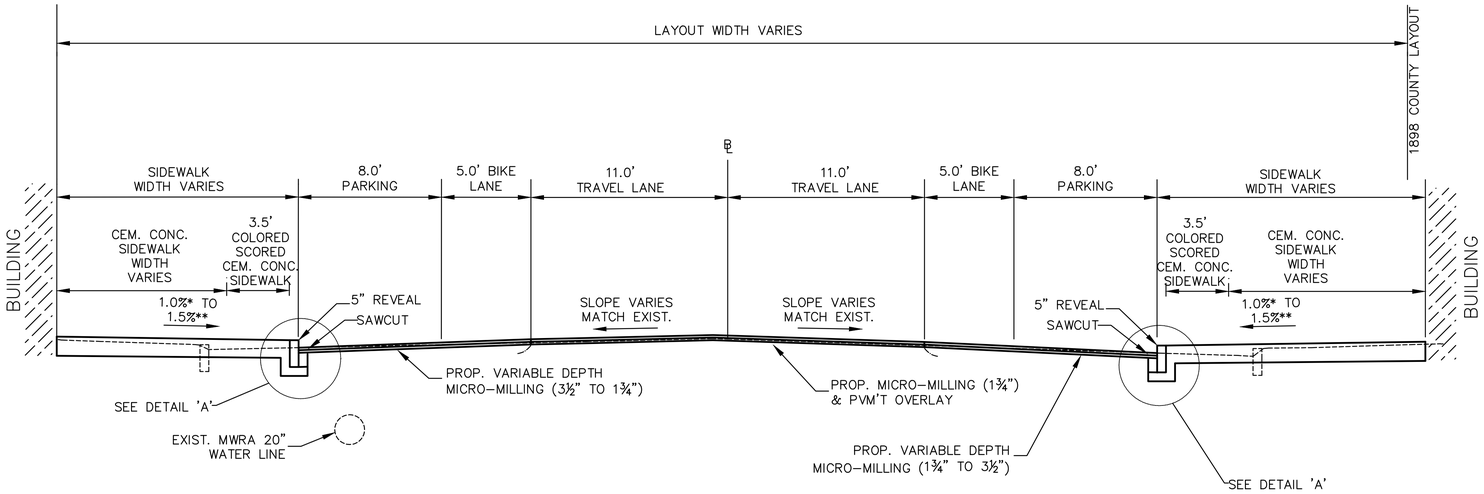
455 CONCORD AVENUE
BELMONT, MASSACHUSETTS

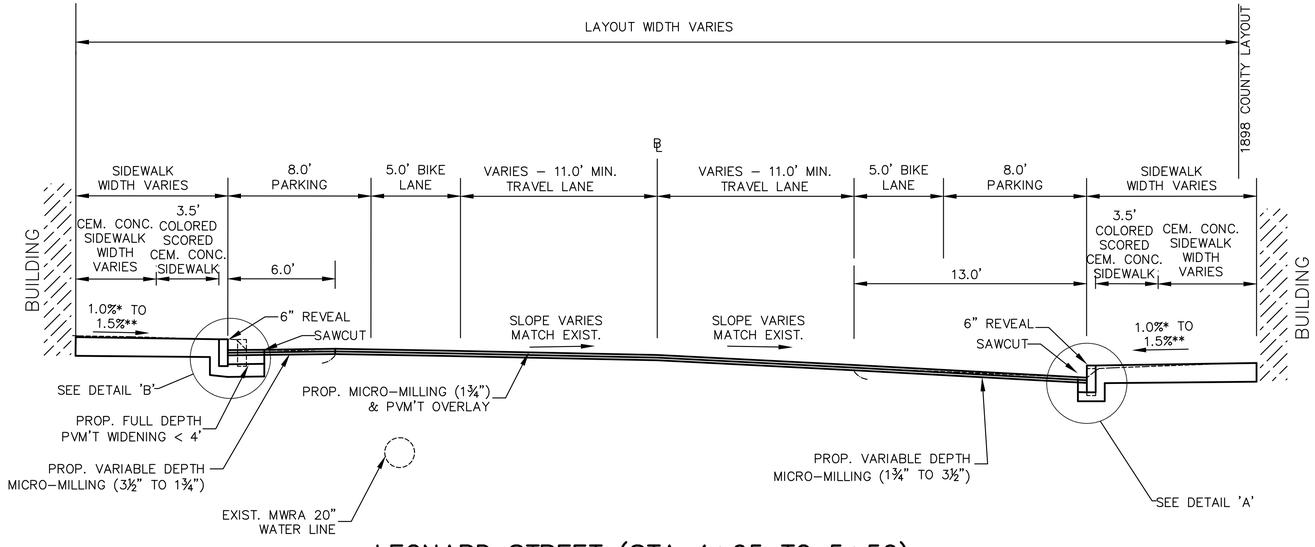
SHEET TITLE:
BELMONT CENTER IMPROVEMENTS
BELMONT, MASSACHUSETTS
TYPICAL SECTIONS

DATE: SEPTEMBER 9, 2013



LEONARD STREET (STA 5+75 TO 7+40)

SCALE: 1" = 4'



LEONARD STREET (STA 4+65 TO 5+50)

SCALE: 1" = 4'

CONTINUED FROM SHEET 3

PAVEMENT NOTES

PAVEMENT MILLING AND OVERLAY (CONCORD AVE. (EAST))

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC–12.5) OVER
0.07 GAL/SY TACK COAT OVER
3½" MICROMILLING

FULL DEPTH PAVEMENT PATCH (CONCORD AVE. (EAST))

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC–19.0) OVER
4" DENSE GRADED CRUSHED STONE

FOUNDATION: 8" GRAVEL BORROW TYPE B***

PAVEMENT MILLING AND OVERLAY (COMMON ST., MOORE ST., CLAFLIN ST., CROSS ST.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.07 GAL/SY TACK COAT OVER
1¾" MICROMILLING

PAVEMENT REPLACEMENT (ALEXANDER AVE.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC–19.0)

FOUNDATION: EXISTING SUB–GRADE MATERIAL

VARIABLE DEPTH PAVEMENT MILLING AND OVERLAY (CHANNING RD.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC–12.5) OVER
0.07 GAL/SY TACK COAT OVER
1¾" MIN (AT GUTTER) TO 3" MAX (AT CL) MICROMILLING

FULL DEPTH PAVEMENT PATCH (CHANNING RD.)

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
2½" SUPERPAVE BASE COURSE 19.0 (SBC–19.0) OVER

FOUNDATION: 12" GRAVEL BORROW TYPE B***

FULL DEPTH PAVEMENT WIDENING <4'

SURFACE: 1¾" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC–12.5) OVER
0.05 GAL/SY TACK COAT OVER
6" CEMENT CONCRETE

FOUNDATION: 8" GRAVEL BORROW TYPE B***

CEMENT CONCRETE SIDEWALK/WALK/WCR

SURFACE: 4" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610 LB/CY, OVER

FOUNDATION: 8" GRAVEL BORROW TYPE B***

CEMENT CONCRETE SIDEWALK AT DRIVEWAY

SURFACE: 6" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610 LB/CY, OVER

FOUNDATION: 8" GRAVEL BORROW TYPE B***

CEMENT CONCRETE ISLAND

SURFACE: 4" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610 LB/CY, OVER

FOUNDATION: 8" GRAVEL BORROW TYPE B***

*.....1.5% PREFFERED
**.....CONSTRUCTION TOLERANCE ±0.5%
***.....NEW FOUNDATION TO BE PLACED ONLY WHERE EXISTING SUBBASE MATERIAL FAILS TO MEET REQUIREMENTS M1.03.0 TYPE b AND AS DIRECTED BY THE ENGINEER.

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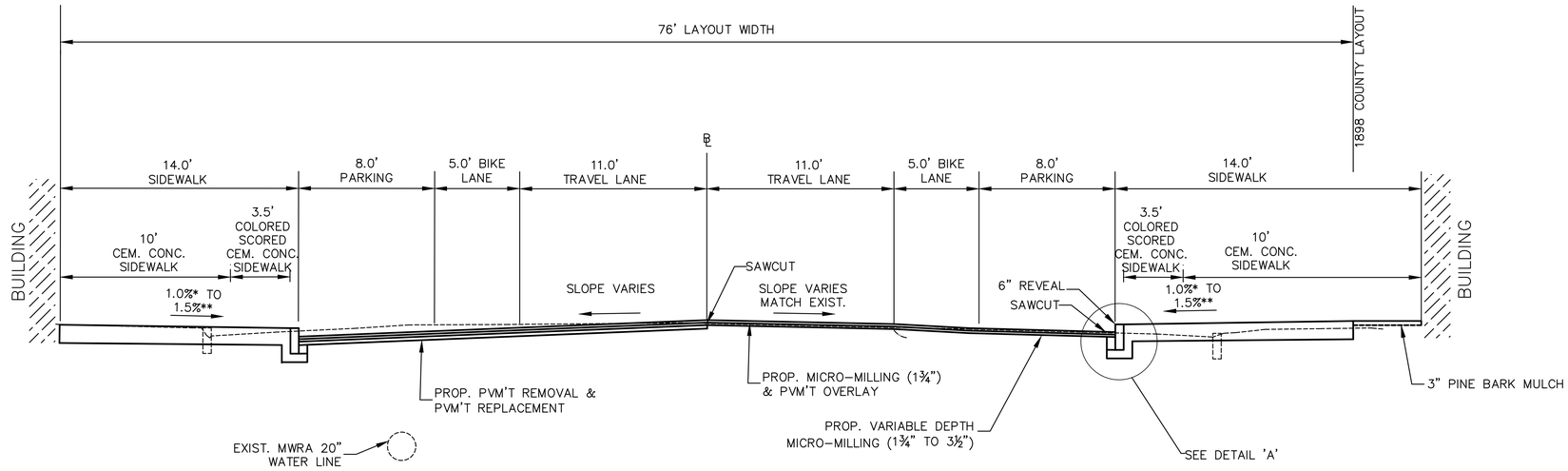
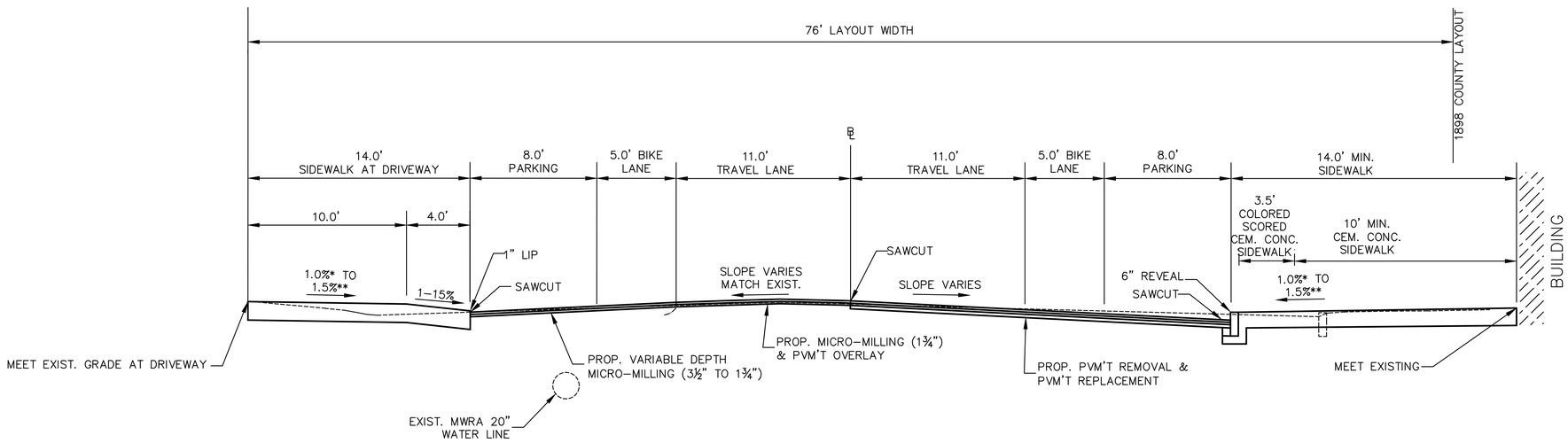


LEONARD STREET (STA 9+65 TO 10+40)

SCALE: 1" = 4'



LEONARD STREET (STA 7+40 TO 9+40)

SCALE: 1" = 4'

*.....1.5% PREFFERED
**.....CONSTRUCTION TOLERANCE ±0.5%

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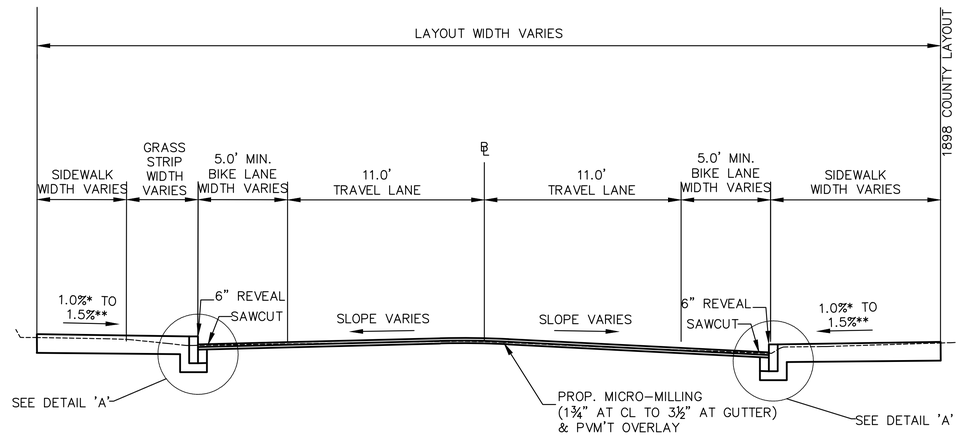
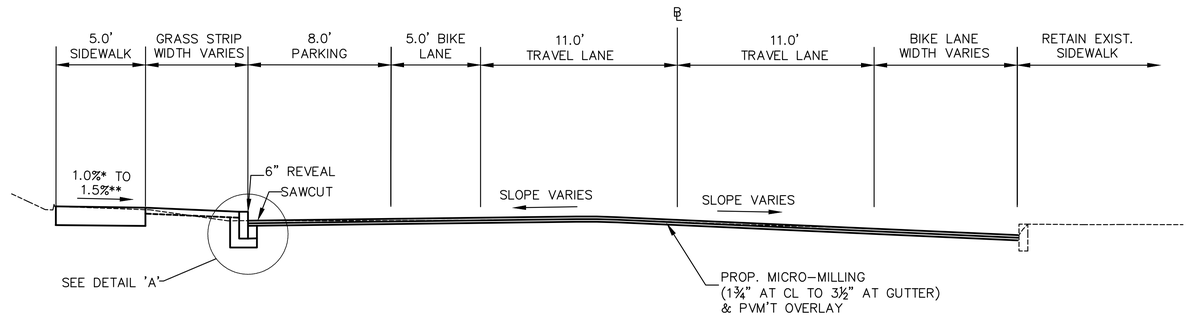
BELMONT, MASSACHUSETTS
TYPICAL SECTIONS

DATE: SEPTEMBER 9, 2013



LEONARD STREET (STA 12+40 TO 15+62)

SCALE: 1" = 4'



LEONARD STREET (STA 11+25 TO 12+00)

SCALE: 1" = 4'

*.....1.5% PREFFERED
**.....CONSTRUCTION TOLERANCE ±0.5%

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TOWN OF BELMONT
455 CONCORD AVENUE
BELMONT, MASSACHUSETTS

SHEET TITLE:
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BELMONT, MASSACHUSETTS
TYPICAL SECTIONS

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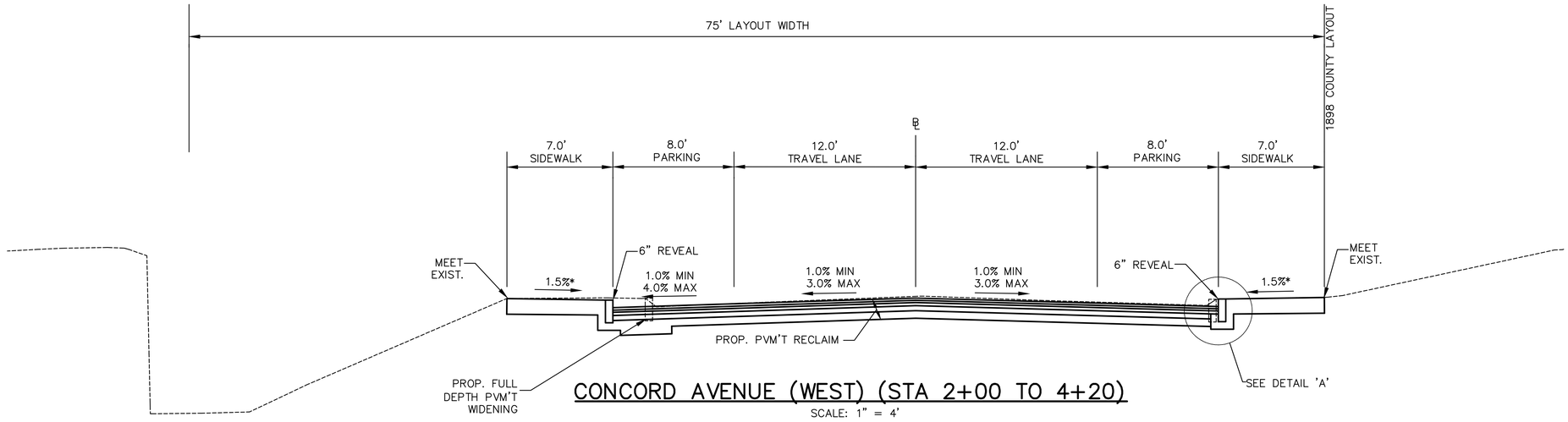
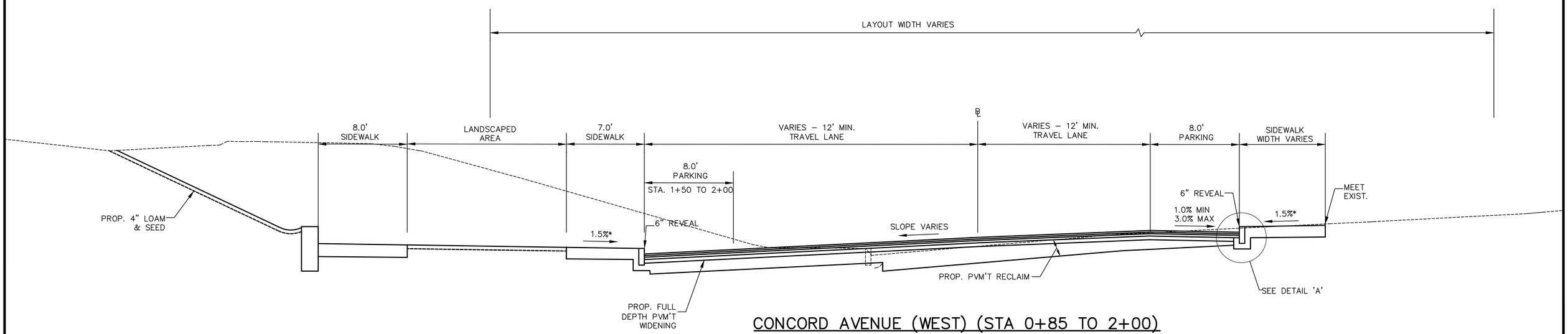


CONCORD AVENUE (WEST) (STA 2+00 TO 4+20)

SCALE: 1" = 4'



CONCORD AVENUE (WEST) (STA 0+85 TO 2+00)

SCALE: 1" = 4'

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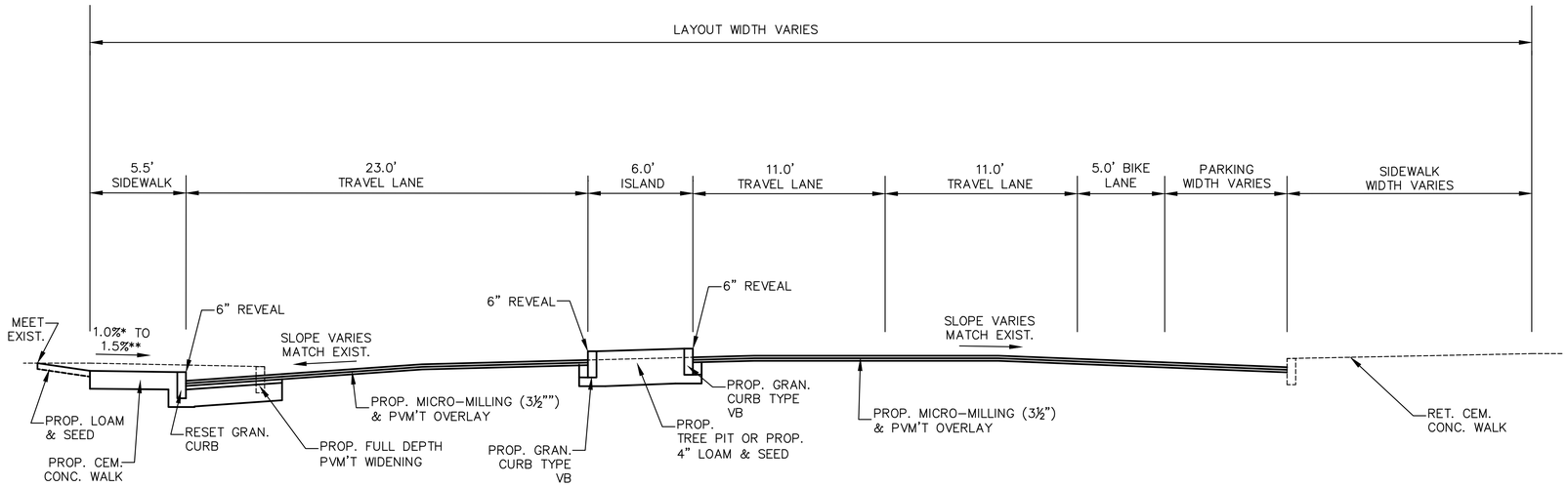
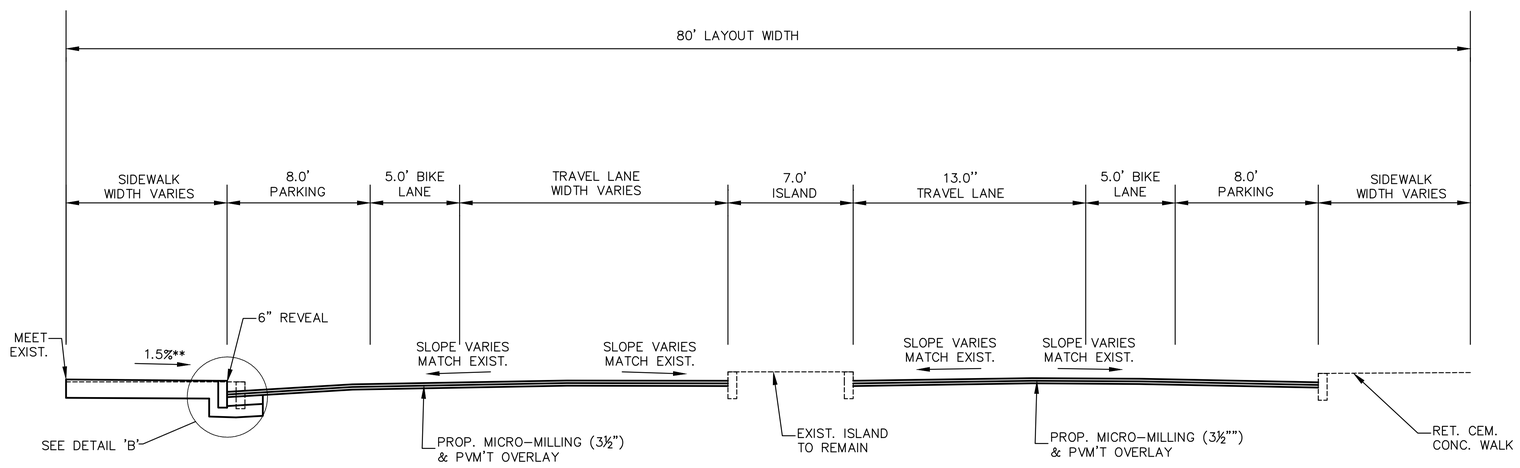


CONCORD AVENUE (EAST)

SCALE: 1" = 4'



CONCORD AVENUE (EAST)

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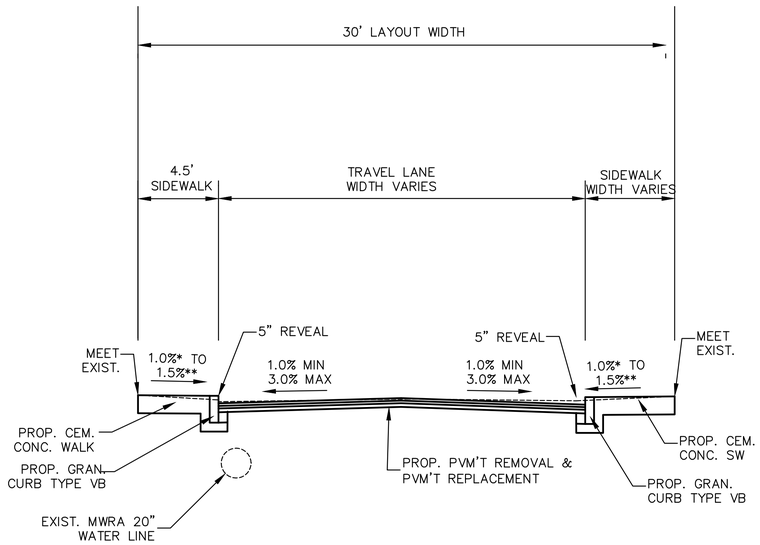
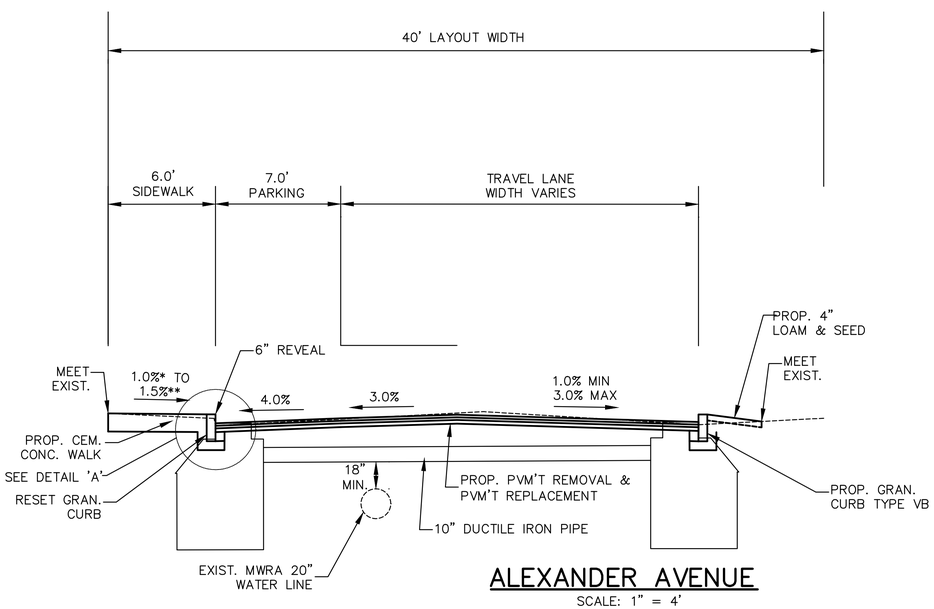


ALEXANDER AVENUE

SCALE: 1" = 4'



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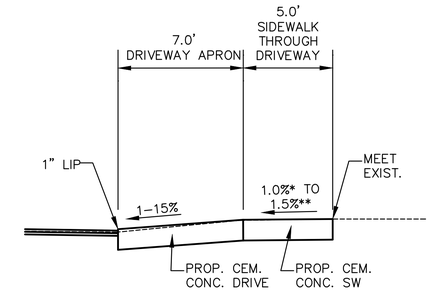
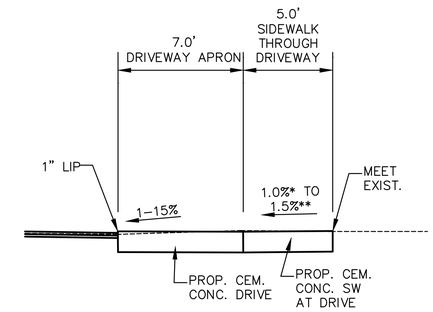
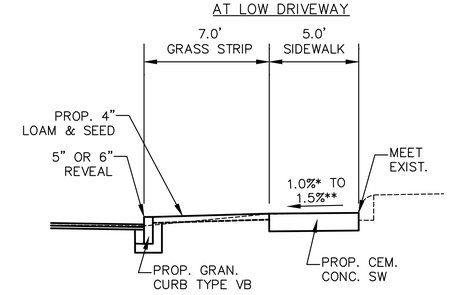
SCALE: 1" = 4'



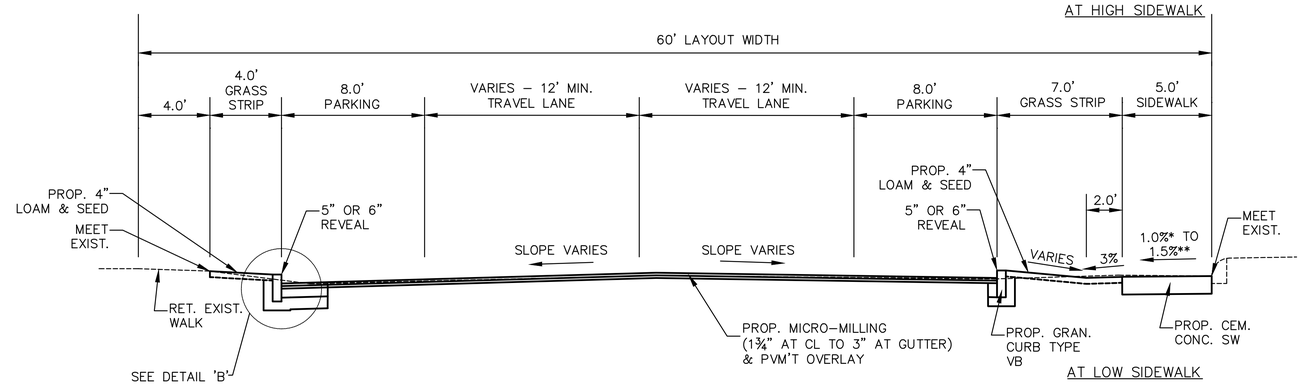
AT HIGH DRIVEWAY



AT LOW DRIVEWAY



AT HIGH SIDEWALK



AT LOW SIDEWALK

CHANNING ROAD

SCALE: 1" = 4'

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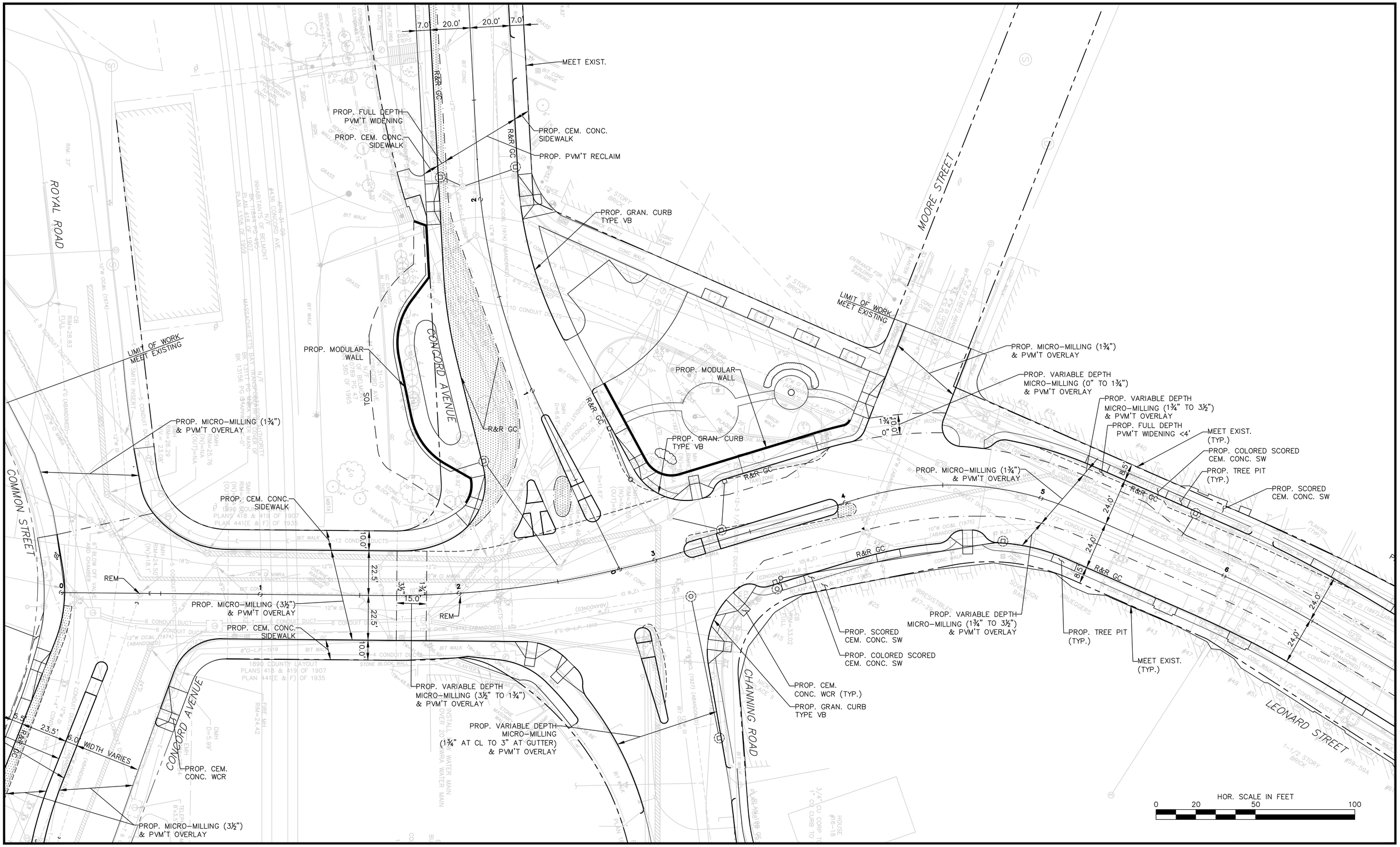

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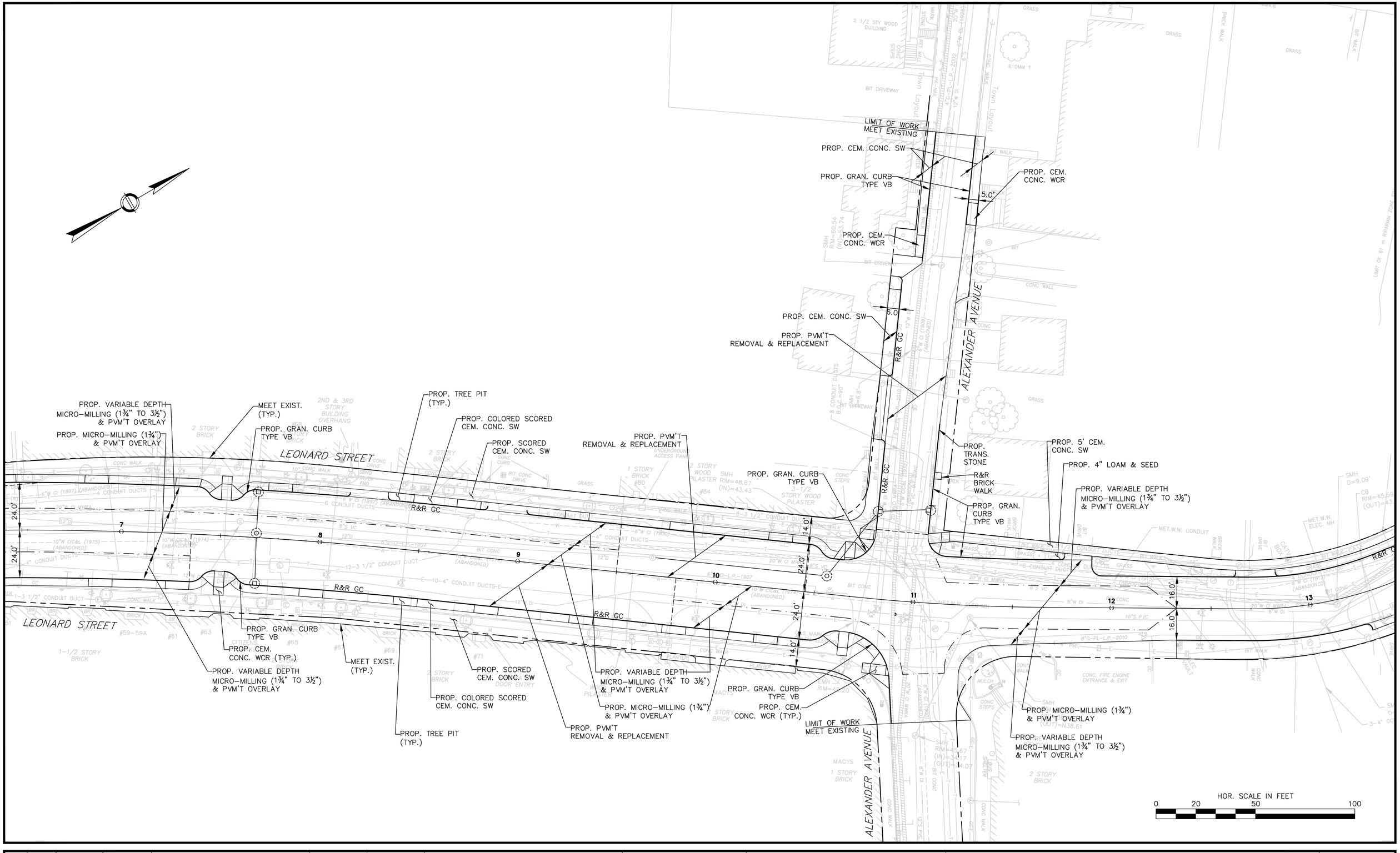

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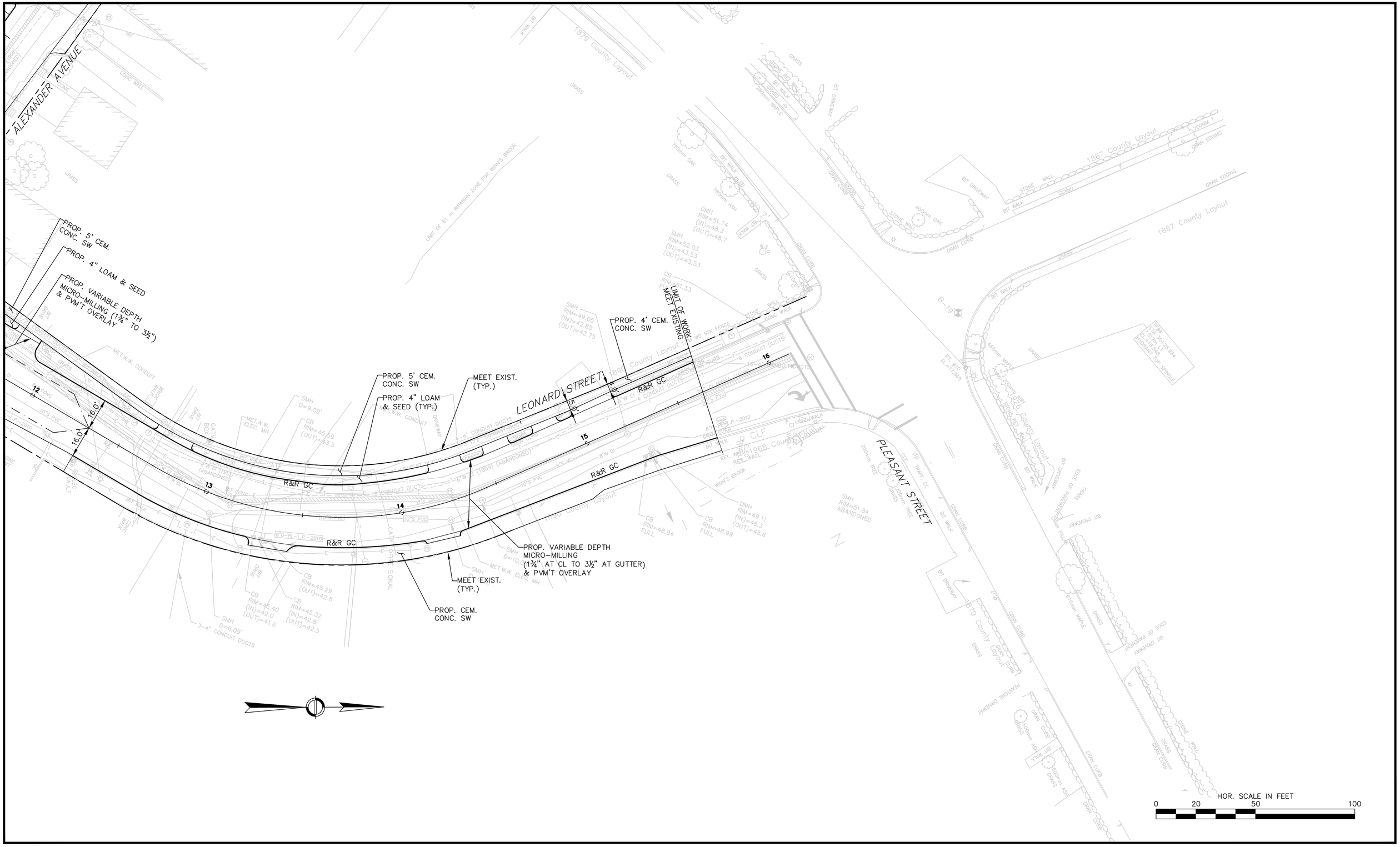

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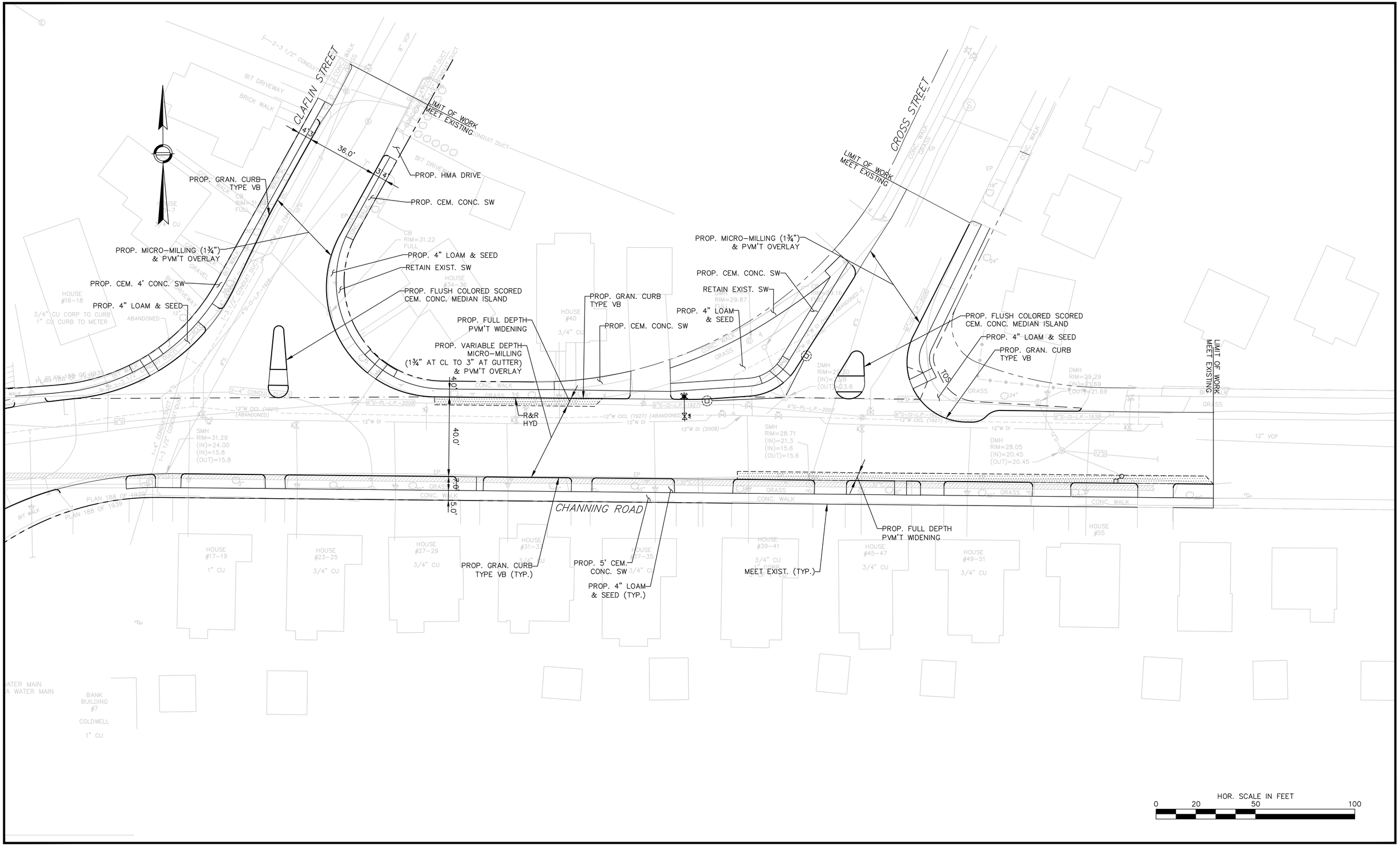

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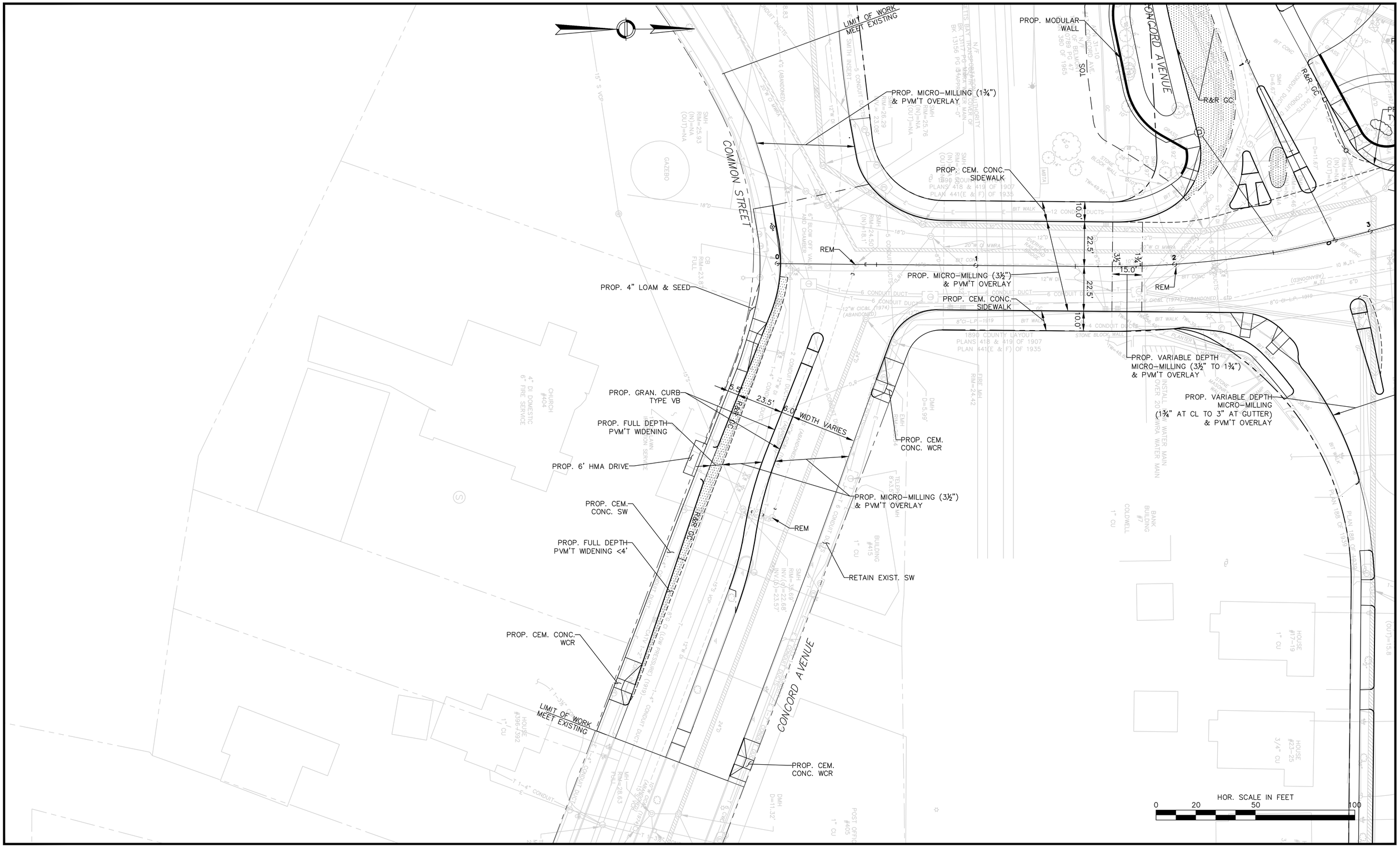

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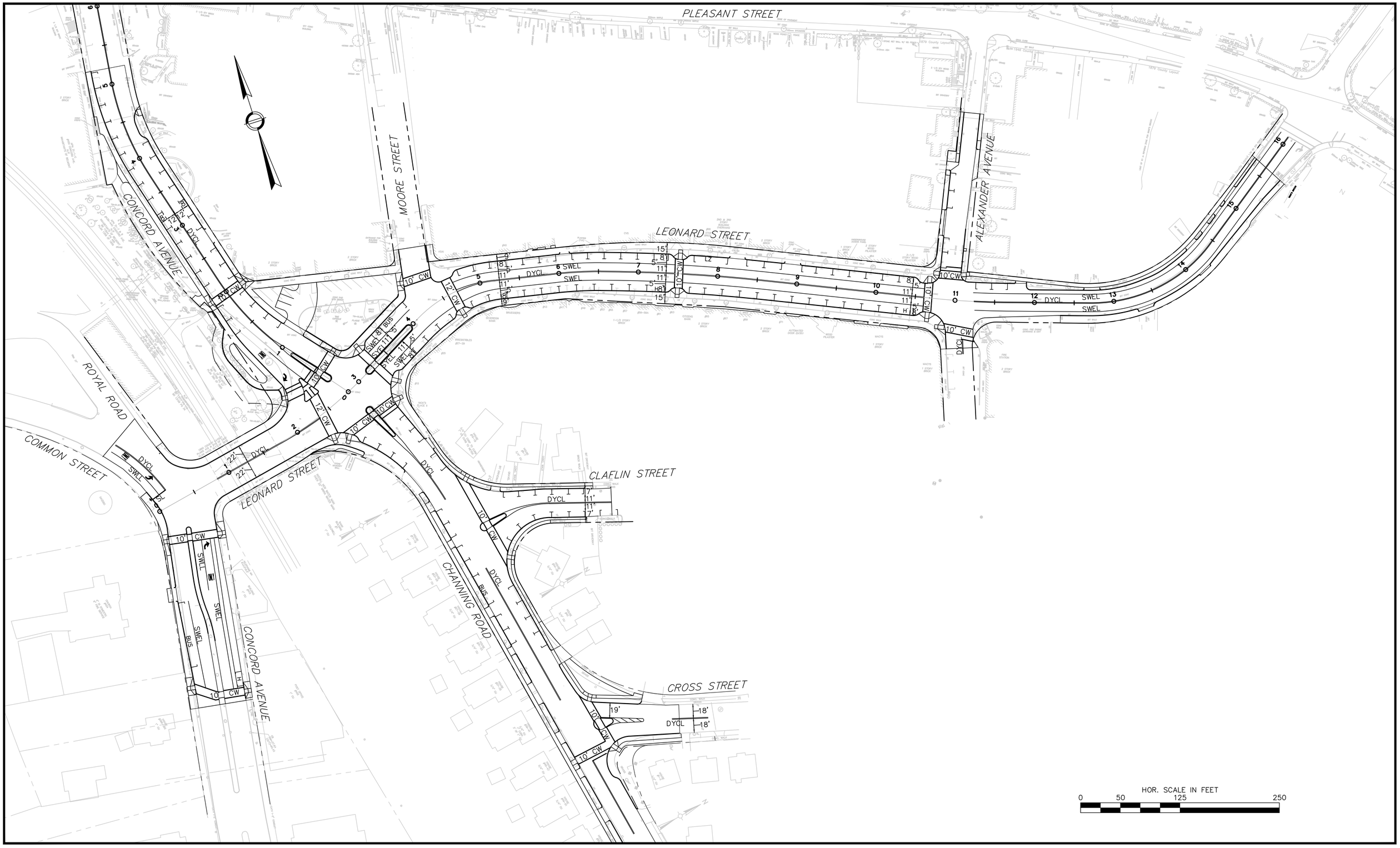

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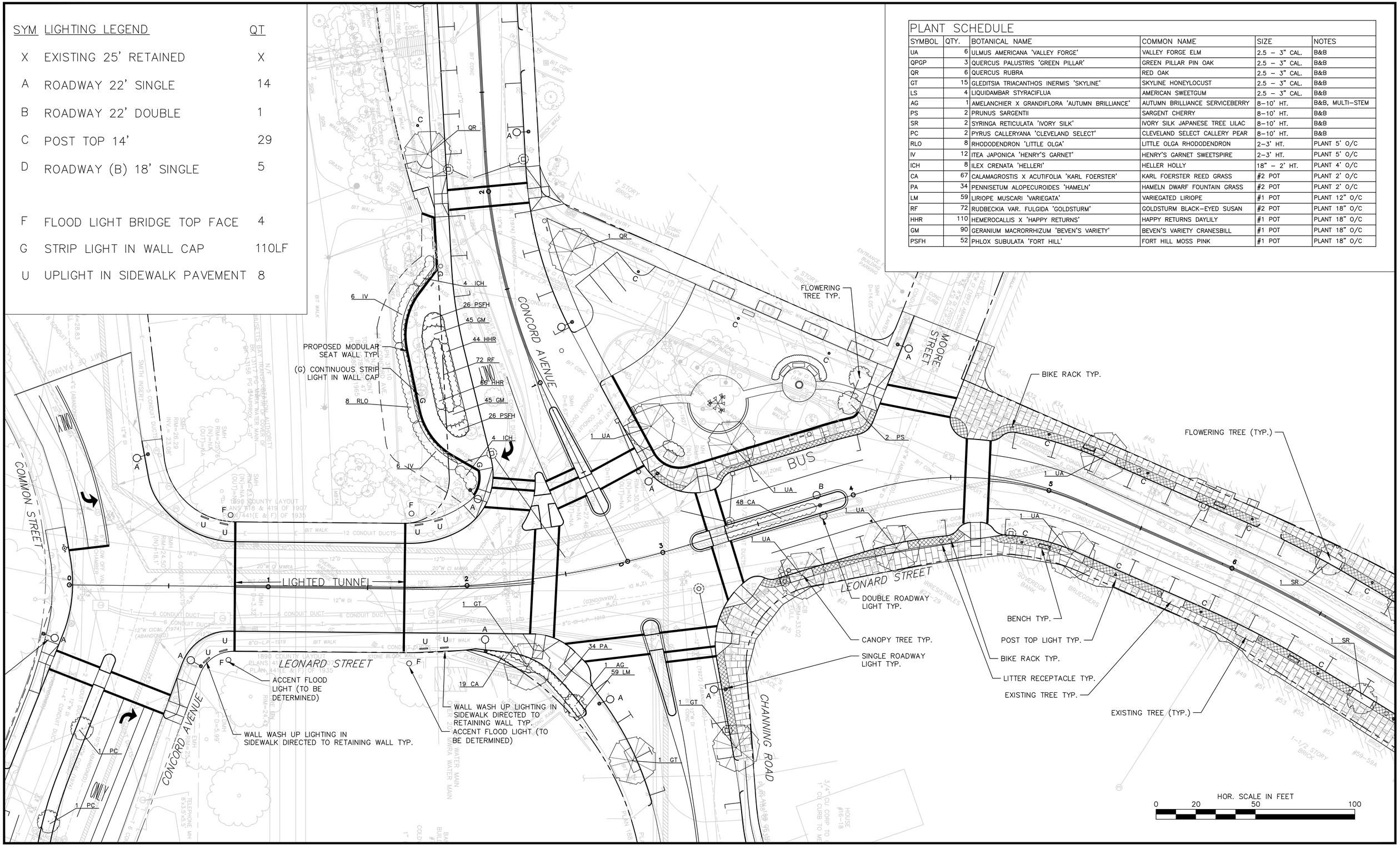
PAVEMENT MARKING & SIGNING PLAN

DATE: SEPTEMBER 9, 2013

SYM	LIGHTING LEGEND	QT
X	EXISTING 25' RETAINED	X
A	ROADWAY 22' SINGLE	14
B	ROADWAY 22' DOUBLE	1
C	POST TOP 14'	29
D	ROADWAY (B) 18' SINGLE	5
F	FLOOD LIGHT BRIDGE TOP FACE	4
G	STRIP LIGHT IN WALL CAP	110LF
U	UPLIGHT IN SIDEWALK PAVEMENT	8

PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
UA	6	ULMUS AMERICANA 'VALLEY FORGE'	VALLEY FORGE ELM	2.5 – 3" CAL.	B&B
QPGP	3	QUERCUS PALUSTRIS 'GREEN PILLAR'	GREEN PILLAR PIN OAK	2.5 – 3" CAL.	B&B
QR	6	QUERCUS RUBRA	RED OAK	2.5 – 3" CAL.	B&B
GT	15	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE'	SKYLINE HONEYLOCUST	2.5 – 3" CAL.	B&B
LS	4	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	2.5 – 3" CAL.	B&B
AG	1	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	8–10' HT.	B&B, MULTI–STEM
PS	2	PRUNUS SARGENTII	SARGENT CHERRY	8–10' HT.	B&B
SR	2	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	8–10' HT.	B&B
PC	2	PYRUS CALLERYANA 'CLEVELAND SELECT'	CLEVELAND SELECT CALLERY PEAR	8–10' HT.	B&B
RLO	8	RHODODENDRON 'LITTLE OLGA'	LITTLE OLGA RHODODENDRON	2–3' HT.	PLANT 5' O/C
IV	12	ITEA JAPONICA 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	2–3' HT.	PLANT 5' O/C
ICH	8	ILEX CRENATA 'HELLERI'	HELLER HOLLY	18" – 2' HT.	PLANT 4' O/C
CA	67	CALAMAGROSTIS X ACUTIFOLIA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	#2 POT	PLANT 2' O/C
PA	34	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	#2 POT	PLANT 2' O/C
LM	59	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE	#1 POT	PLANT 12" O/C
RF	72	RUDBECKIA VAR. FULGIDA 'GOLDSTURM'	GOLDSTURM BLACK–EYED SUSAN	#2 POT	PLANT 18" O/C
HHR	110	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	#1 POT	PLANT 18" O/C
GM	90	GERANIUM MACRORRHIZUM 'BEVEN'S VARIETY'	BEVEN'S VARIETY CRANESBILL	#1 POT	PLANT 18" O/C
PSFH	52	PHLOX SUBULATA 'FORT HILL'	FORT HILL MOSS PINK	#1 POT	PLANT 18" O/C



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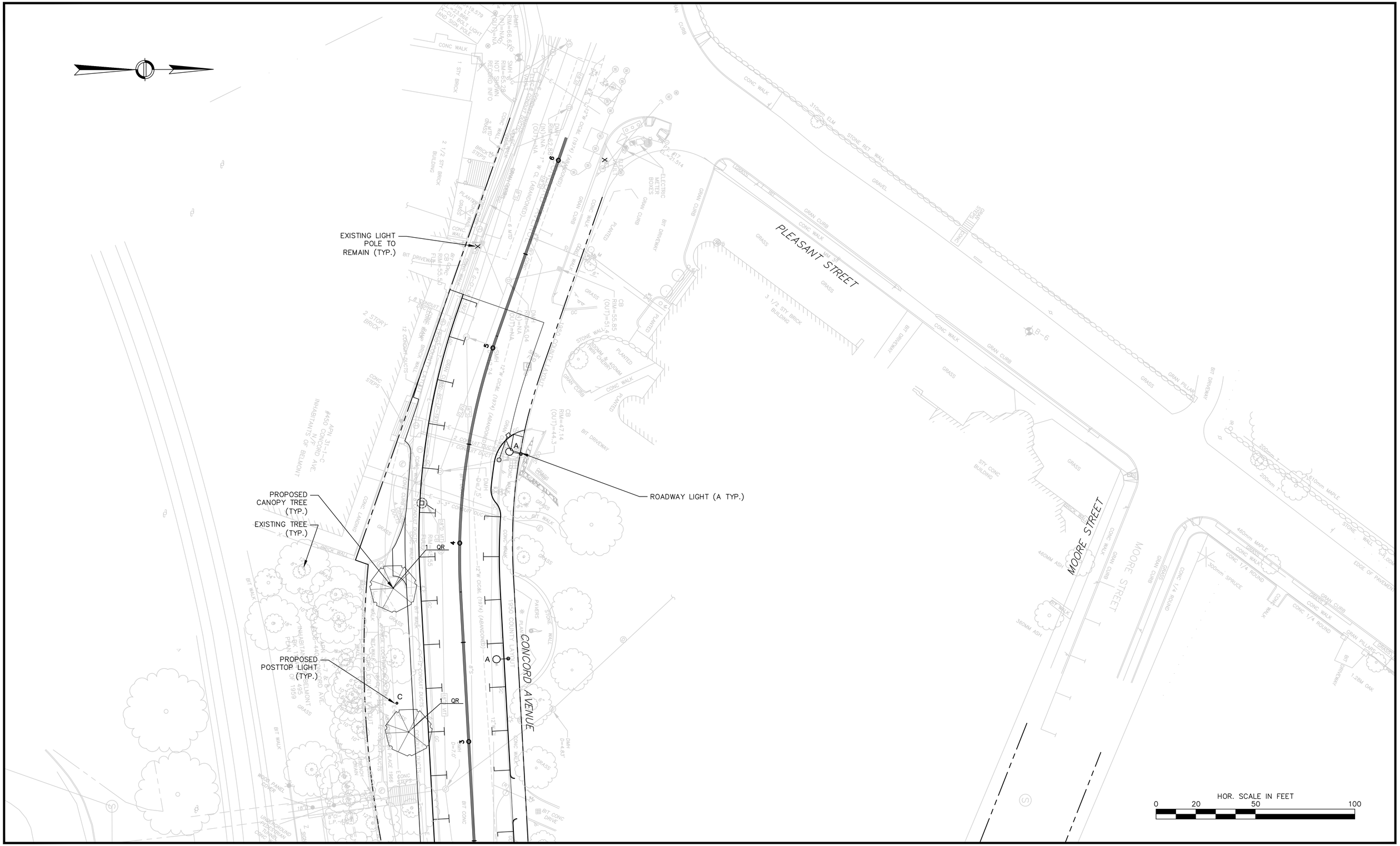
BELMONT, MASSACHUSETTS
LIGHTING AND LANDSCAPE PLAN

DATE: SEPTEMBER 9, 2013



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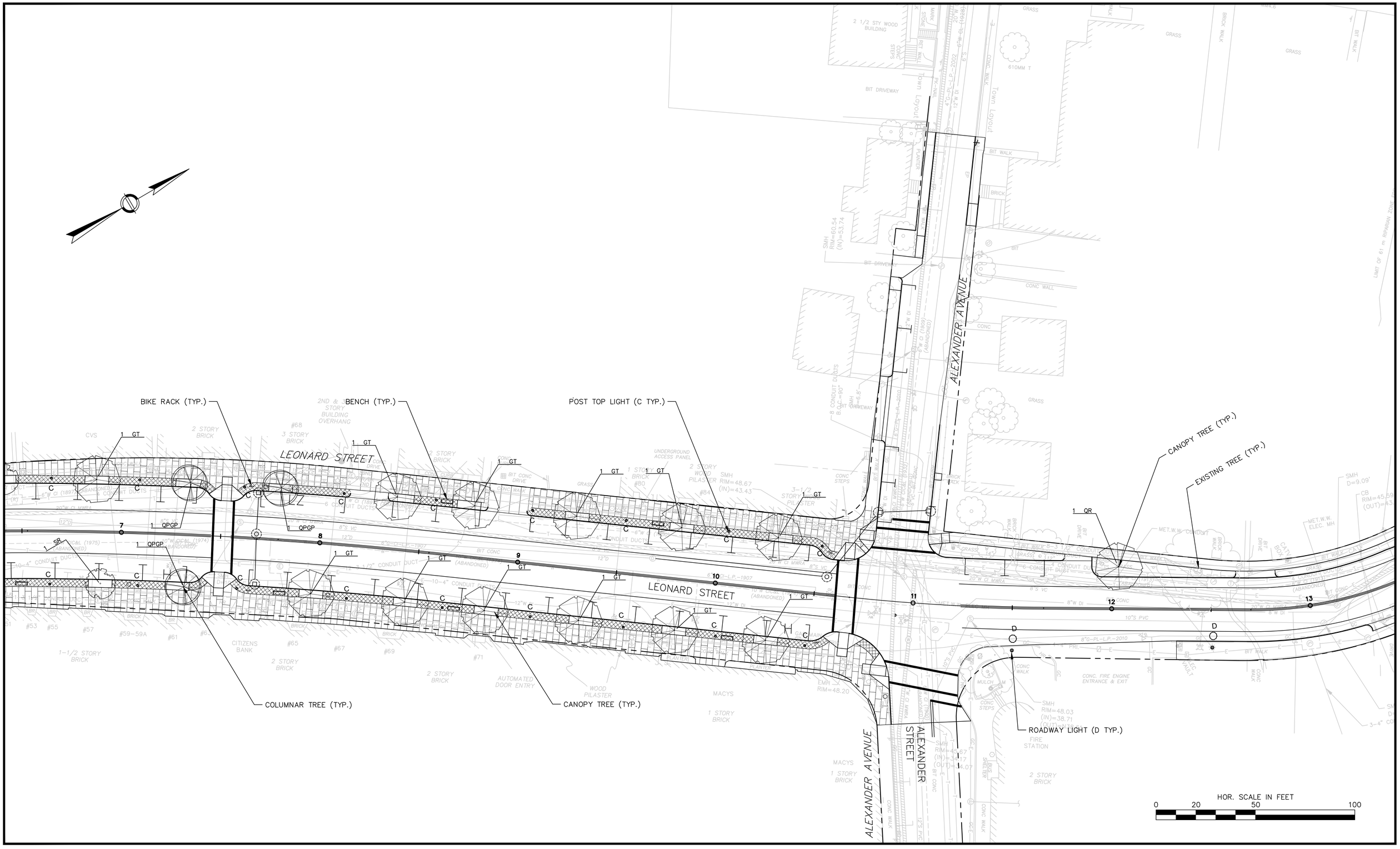

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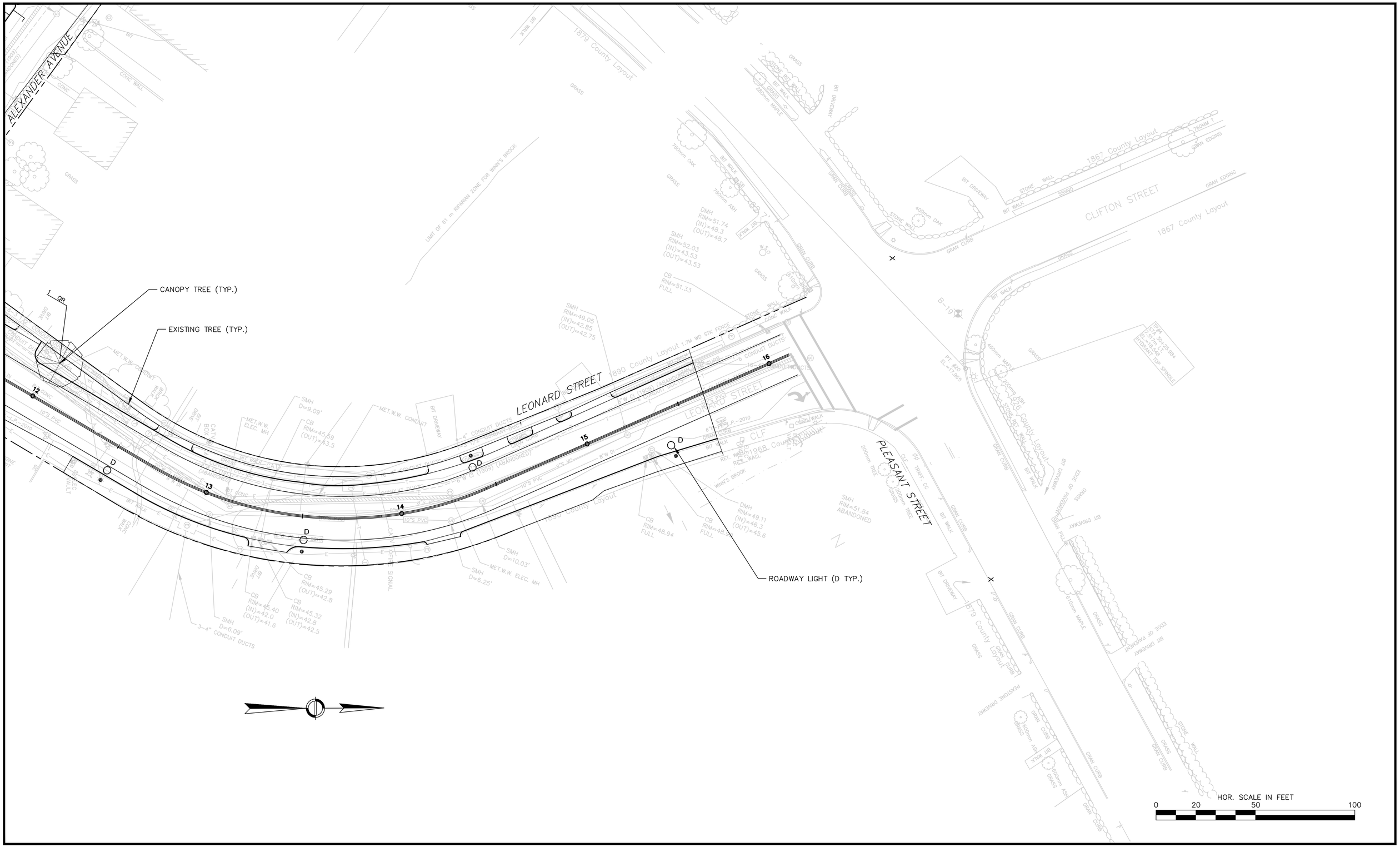

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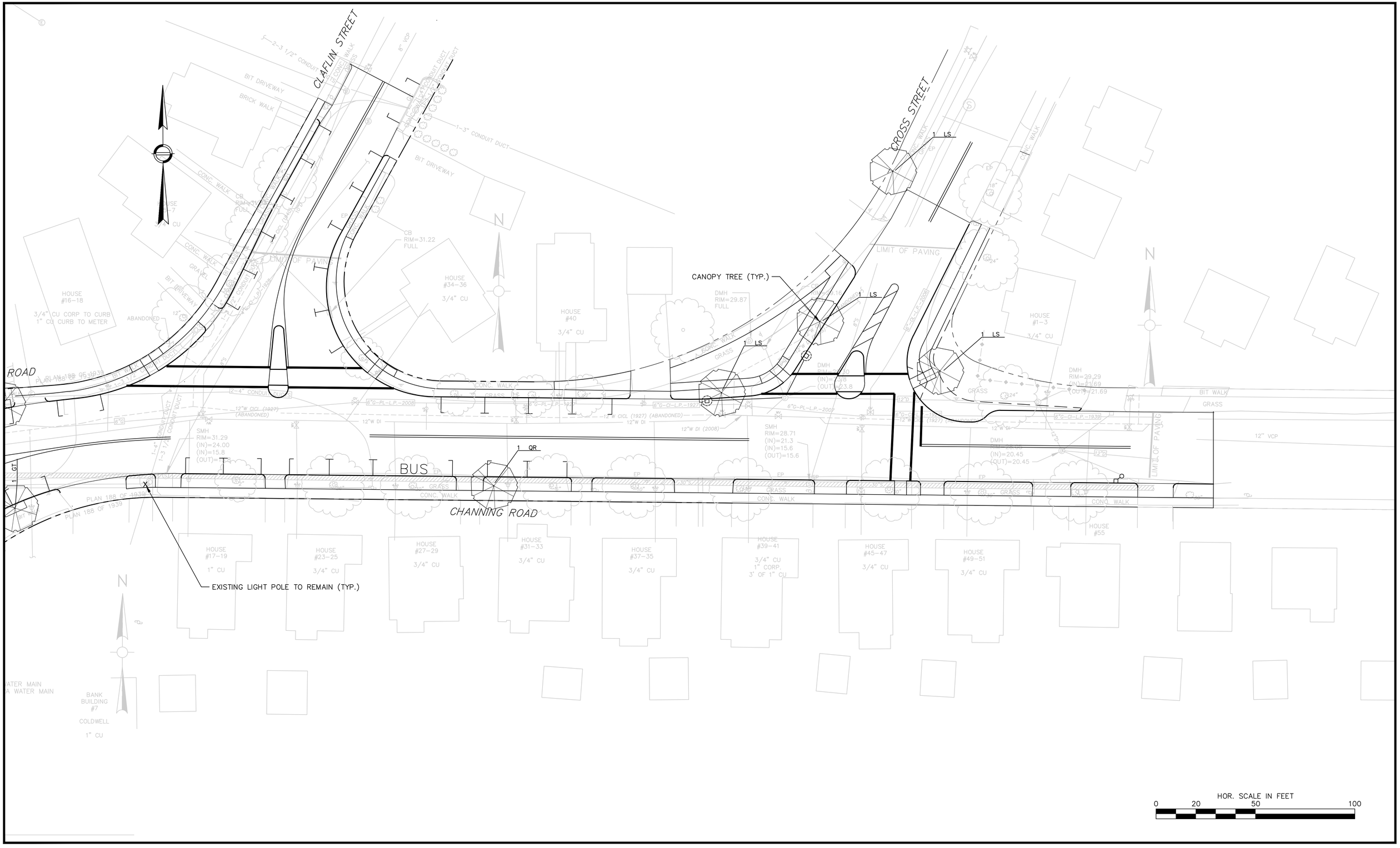

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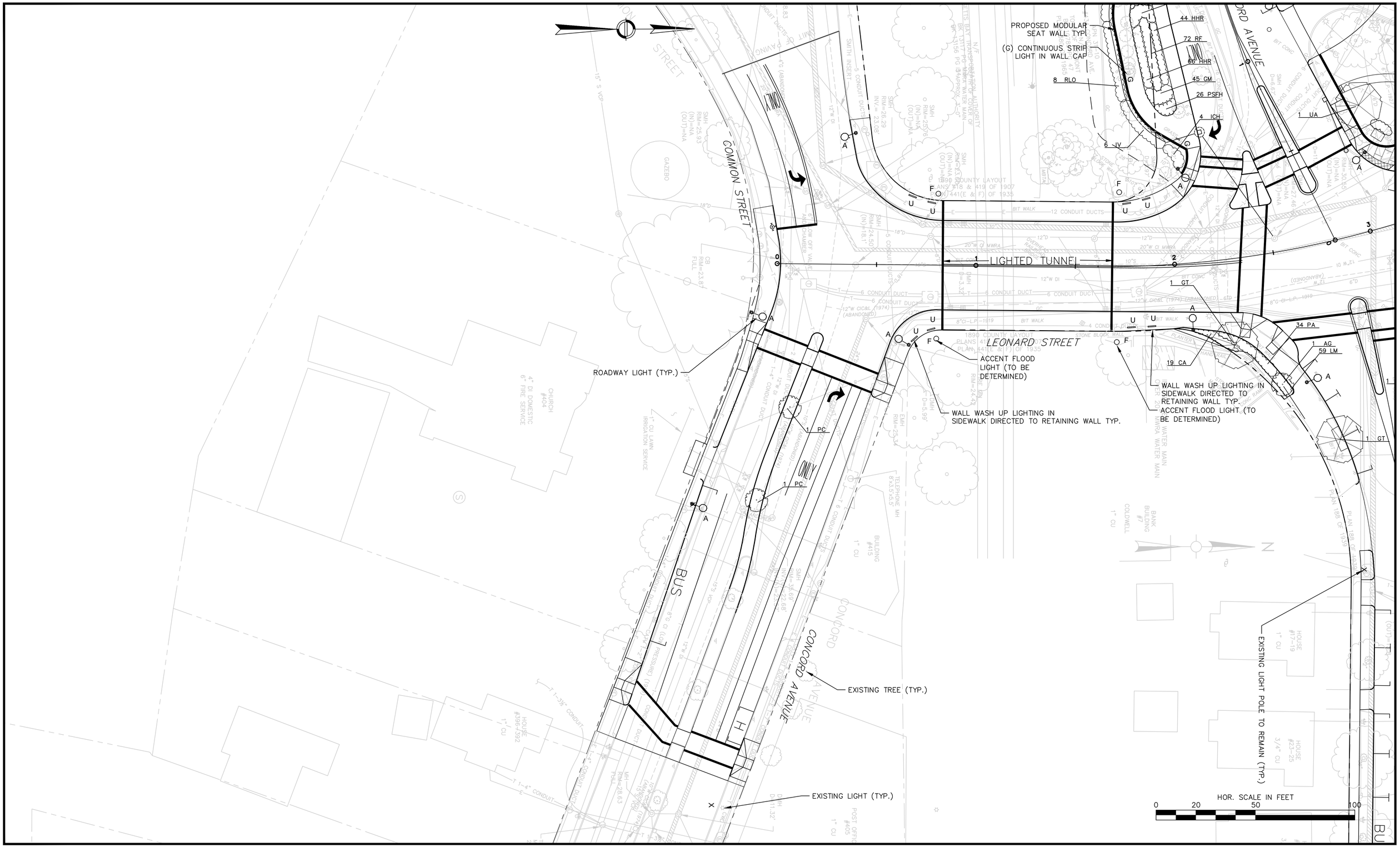

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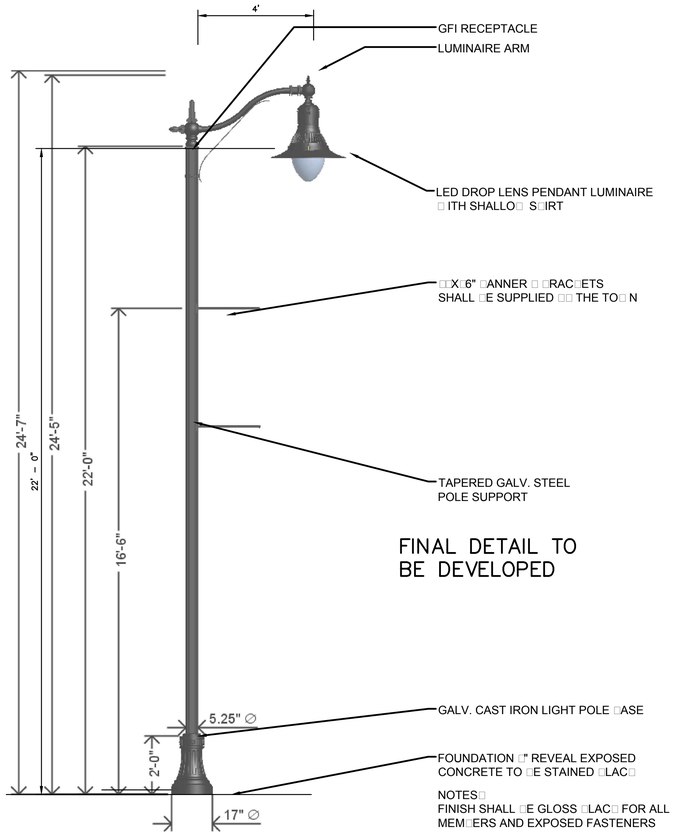
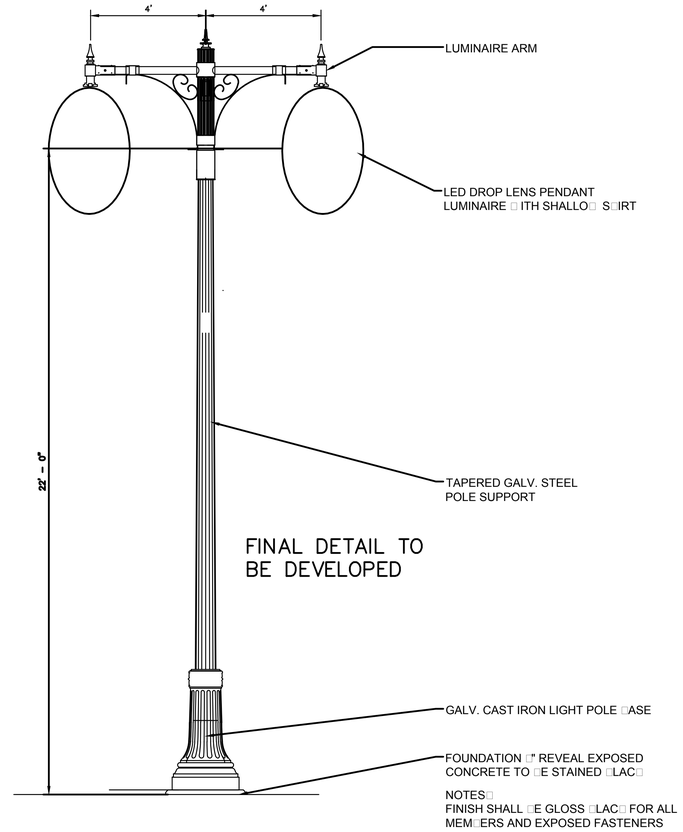


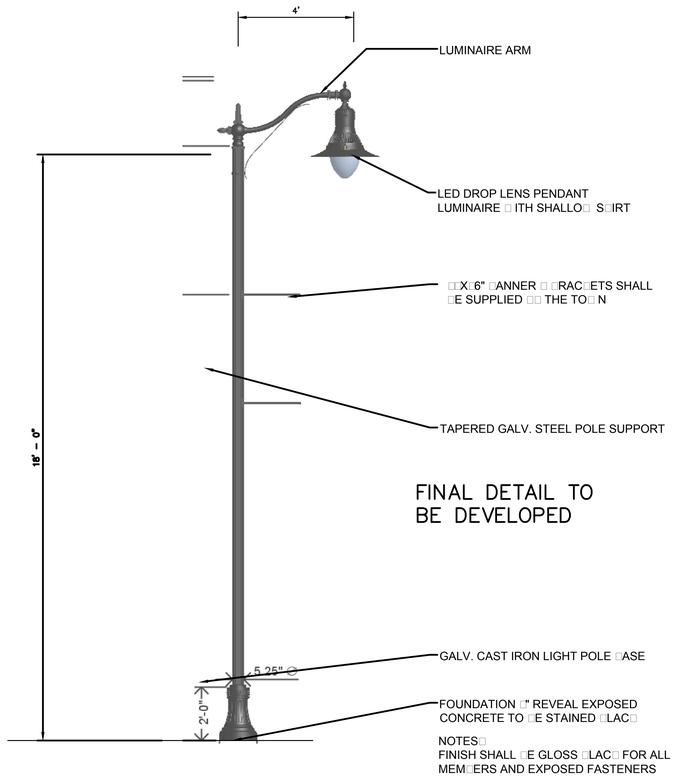
LIGHTPOLE AND LUMINAIRE TYPE (A) SINGLE

SCALE: NONE



LIGHTPOLE AND LUMINAIRE TYPE (B) DOUBLE

SCALE: NONE



LIGHTPOLE AND LUMINAIRE TYPE (D) RESIDENTIAL

SCALE: NONE

NOTES□

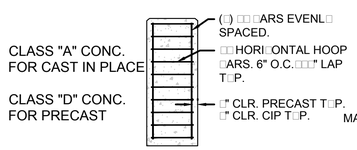
CEMENT CONCRETE LIGHT POLE FOOTING PROVIDED FOR □IDDING ONL□ CONTRACTOR MUST SU□MIT SHOP DRA□ ING STAMPED □□ STRUCTURAL ENGINEER FOR REVIE□ AND APPROVAL □□ O□ NERS REPRESENTATIVE.

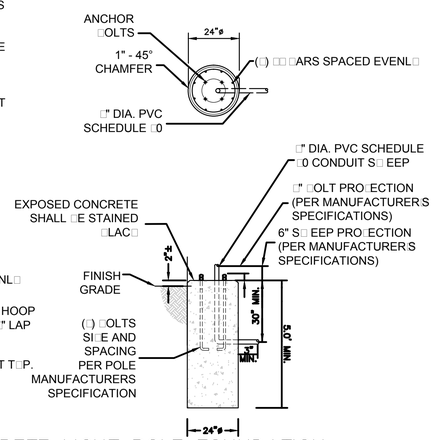
ANCHOR □OLTS AND PATTERN AS RE□UIRED □□ THE LIGHT POLE MANUFACTURER. (TEMPLATE TO □E SUPPLIED □□ POLE MANUFACTURER)

CAST□IN□PLACE (CIP) FOUNDATION POURED AGAINST UNDISTUR□ED EARTH.

PRECAST FOUNDATION □□AC□FILLED □ ITH MIN. □" LA□ER CRUSHED STONE□GRAVEL (□□□ MODIFIED PROCTOR COMPACTION) OR FLO□ A□LE FILL□CONCRETE POURED AGAINST UNDISTUR□ED EARTH.

ALL ASSOCIATED COSTS FOR ITEMS LISTED A□OVE SHALL □E CONSIDERED INCIDENTAL



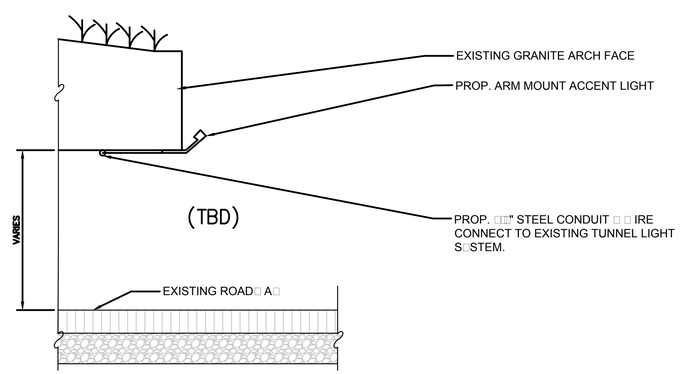


CEMENT CONCRETE LIGHT POLE FOUNDATION

SCALE: NONE

CLASS "A" CONC. □MASSDOT MIX DESIGN □000 PSI□□.□ IN.□□6□ CEMENT CONCRETE
CLASS "D" CONC. □MASSDOT MIX DESIGN □000 PSI□⁄ IN.□6□0 CEMENT CONCRETE
REINFORCEMENT □GRADE. 60

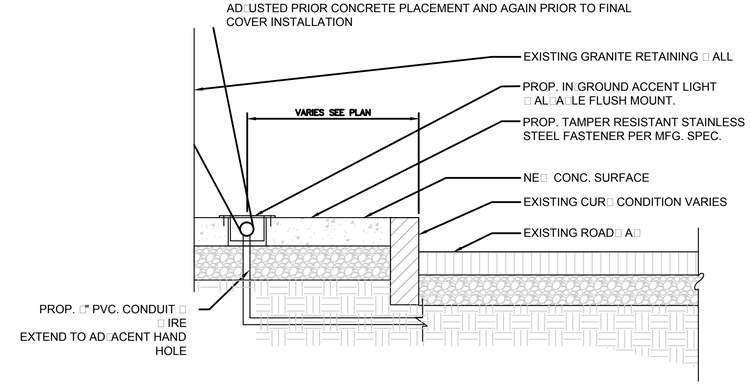
NOTES□
FIXTURE SHALL □E PO□ ERED SO POSITION AND □EAM ANGLE CAN □E AD□USTED PRIOR TO PLACEMENT AND AGAIN PRIOR TO FINAL INSTALLATION



BRIDGE FACADE ACCENT LIGHTING TYPE (F) (TBD)

SCALE: NONE

NOTES□
FIXTURE SHALL □E PO□ ERED SO POSITION AND □EAM ANGLE CAN □E AD□USTED PRIOR CONCRETE PLACEMENT AND AGAIN PRIOR TO FINAL COVER INSTALLATION



IN GROUND UP-LIGHT TYPE (U)

SCALE: NONE

REV.	DATE	DESIGNED BY	CHECKED BY	REVISION DESCRIPTION

DRAWN BY: K. LEWIS
DESIGNED BY: P. BRIERE
CHECKED BY: P. BRIERE
FILE NAME:
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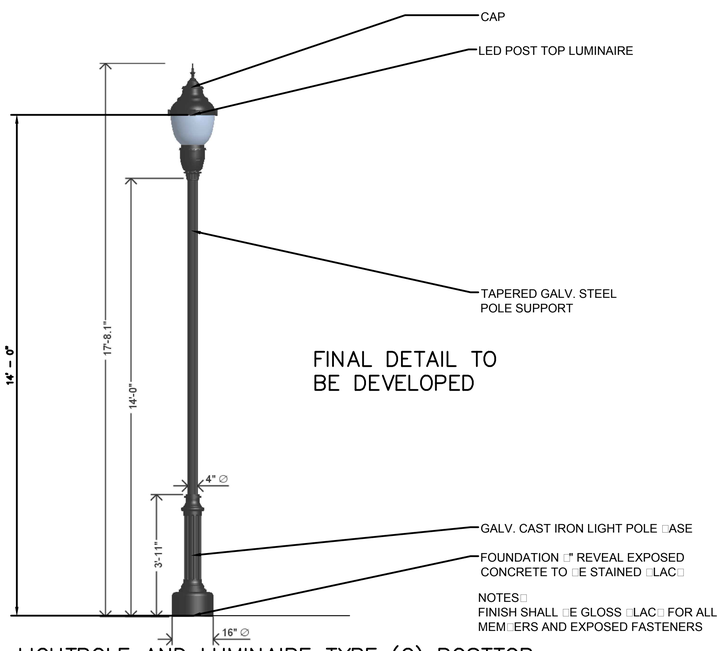
PREPARED FOR:
TOWN OF BELMONT
455 CONCORD AVENUE
BELMONT, MASSACHUSETTS

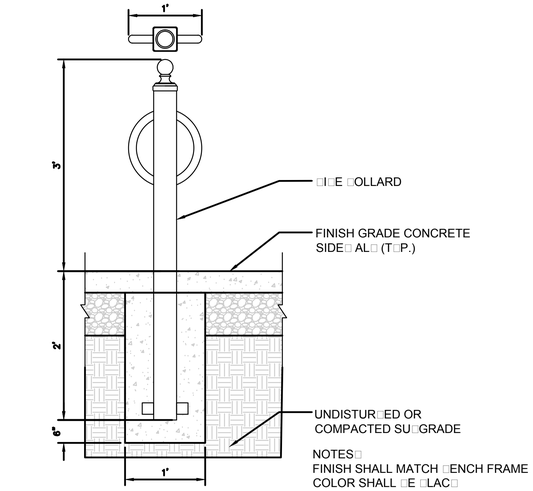
SHEET TITLE:
BELMONT CENTER IMPROVEMENTS
BELMONT, MASSACHUSETTS
LIGHTING DETAILS

DATE: SEPTEMBER 9, 2013



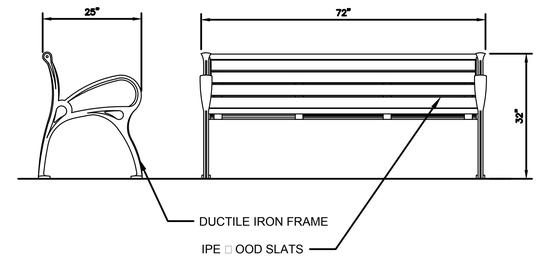
LIGHTPOLE AND LUMINAIRE TYPE (C) POSTTOP

SCALE: NONE



BICYCLE RACK

N.T.S.



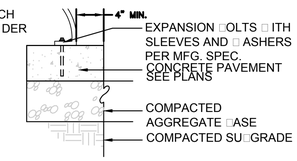
NOTES□

□. ALL STEEL MEM□ERS COATED □ ITH □INC RICH EPOX□ THEN FINISHED □ ITH POL□ESTER PO□ DER COATING.

□. COLOR SHALL □E □LAC□

□. SURFACE MOUNT IN CONCRETE PAVEMENT

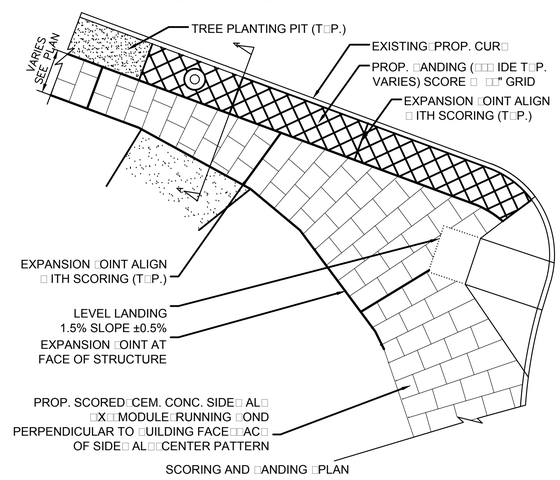
□. □MIN. CLEAR PATH OF TRAVEL RE□UIRED.

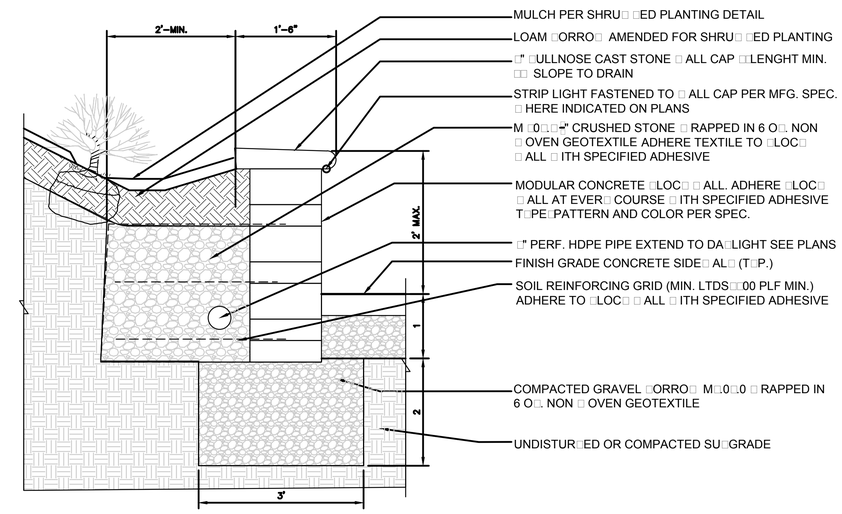


BENCH

N.T.S.

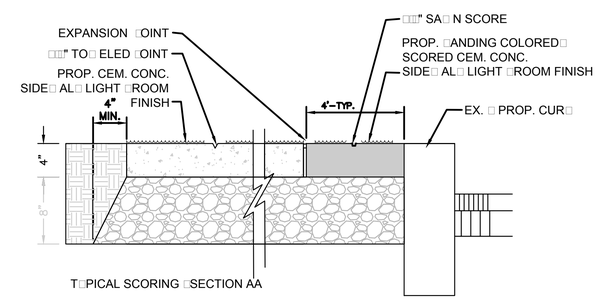
NOTES□
PROVIDE EXPANSION □OINT □ □0□O.C. MAX.IN SIDE□ AL□□□ET□ EEN □ AL□ □ □ANDING AND AT FACE OF STRUCTURES.
EXPANSION □OINTS SHALL □E SEALED□COLOR OF SEALANT TO MATCH CONCRETE.
□ANDING COLOR SHALL □E □RIC□ RED.





MODULAR WALL

SCALE: NONE



CEM. CONC. SIDEWALK SCORING AND BANDING

N.T.S.

LANDSCAPE & LIGHTING DETAILS 2

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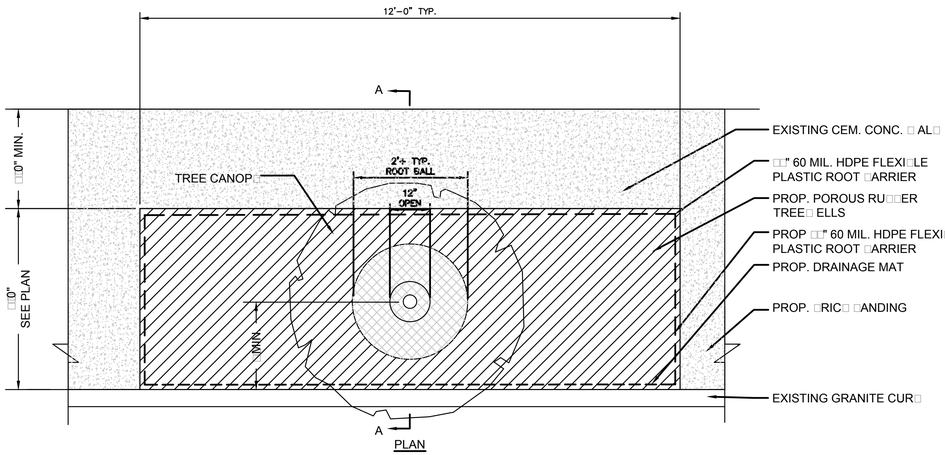
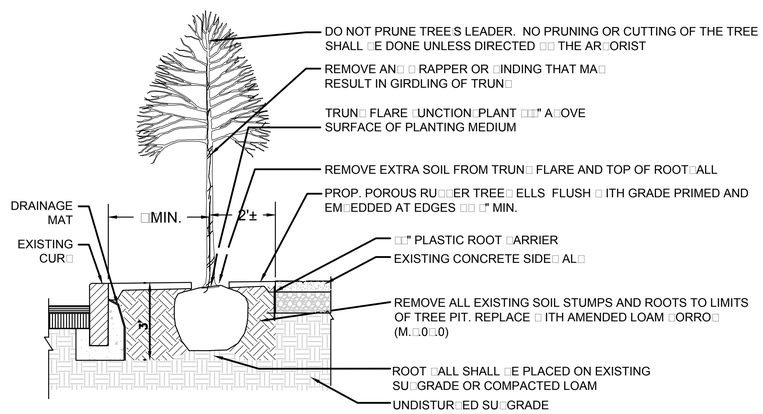
BELMONT, MASSACHUSETTS
LIGHTING AND LANDSCAPE DETAILS

DATE: SEPTEMBER 9, 2013



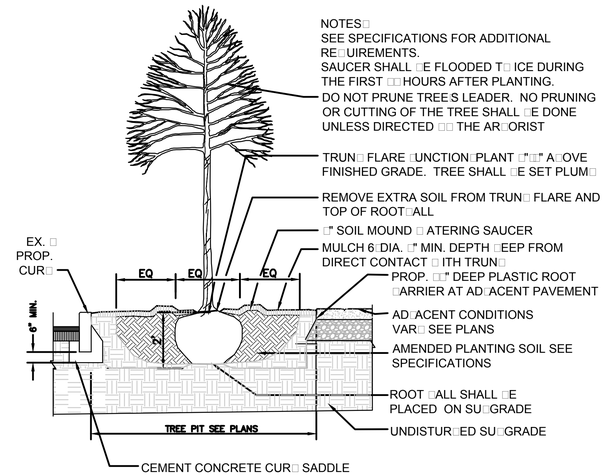
PLAN



SECTION A

STREET TREE PLANTING

SCALE: NONE



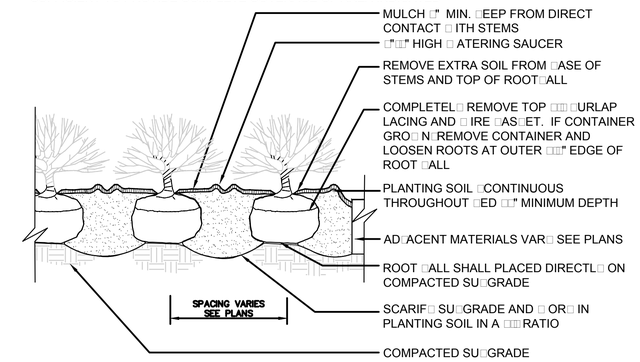
TREE PLANTING TYPICAL

N.T.S.

SHRU□ PLANTING NOTES□

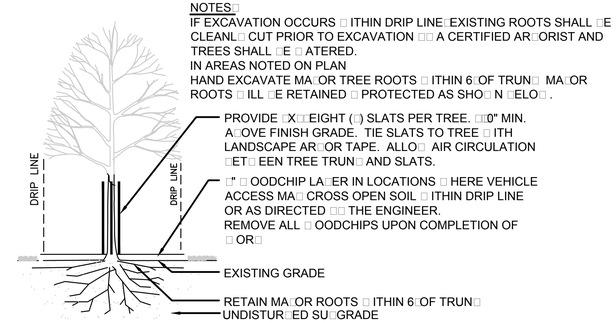
□. SEE SPECIFICATIONS FOR ADDITIONAL RE□UIREMENTS.
□. NO PRUNING OR CUTTING UNLESS DIRECTED □□ THE LANDSCAPE ARCHITECT.
□. SAUCER SHALL □E FLOODED T□ ICE DURING THE FIRST □□ HOURS AFTER PLANTING.
□. SHRU□S SHALL □E SET PLUM□ AND PLANTED SO THAT THE TOP OF THE ROOT□ALL IS □"□" A□OVE FINISHED GRADE.
□. FOR HEDGE PLANTING SHRU□S SHALL □E SPACED AS CALLED OUT ON PLANS AT □UANTITIES SUFFICIENT TO PROVIDE COMPLETE COVERAGE OF AREA INDICATED

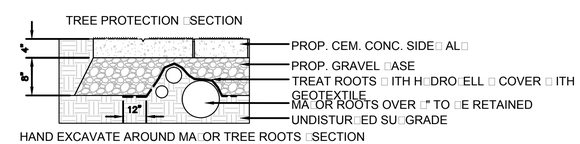
LANDSCAPE & LIGHTING DETAILS 2



SHRUB PLANTING BED (HEDGE)

N.T.S.

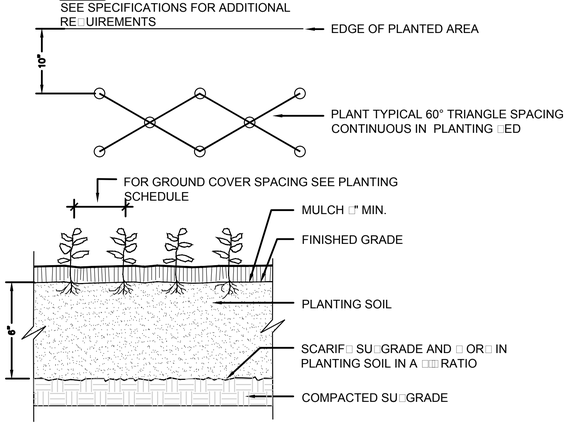




EXISTING TREE PROTECTION

N.T.S.

NOTES□
SEE SPECIFICATIONS FOR ADDITIONAL
RE□UIREMENTS



GROUNDCOVER PLANTING

N.T.S.

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