

# TOWN OF SOUTH HADLEY, MASSACHUSETTS

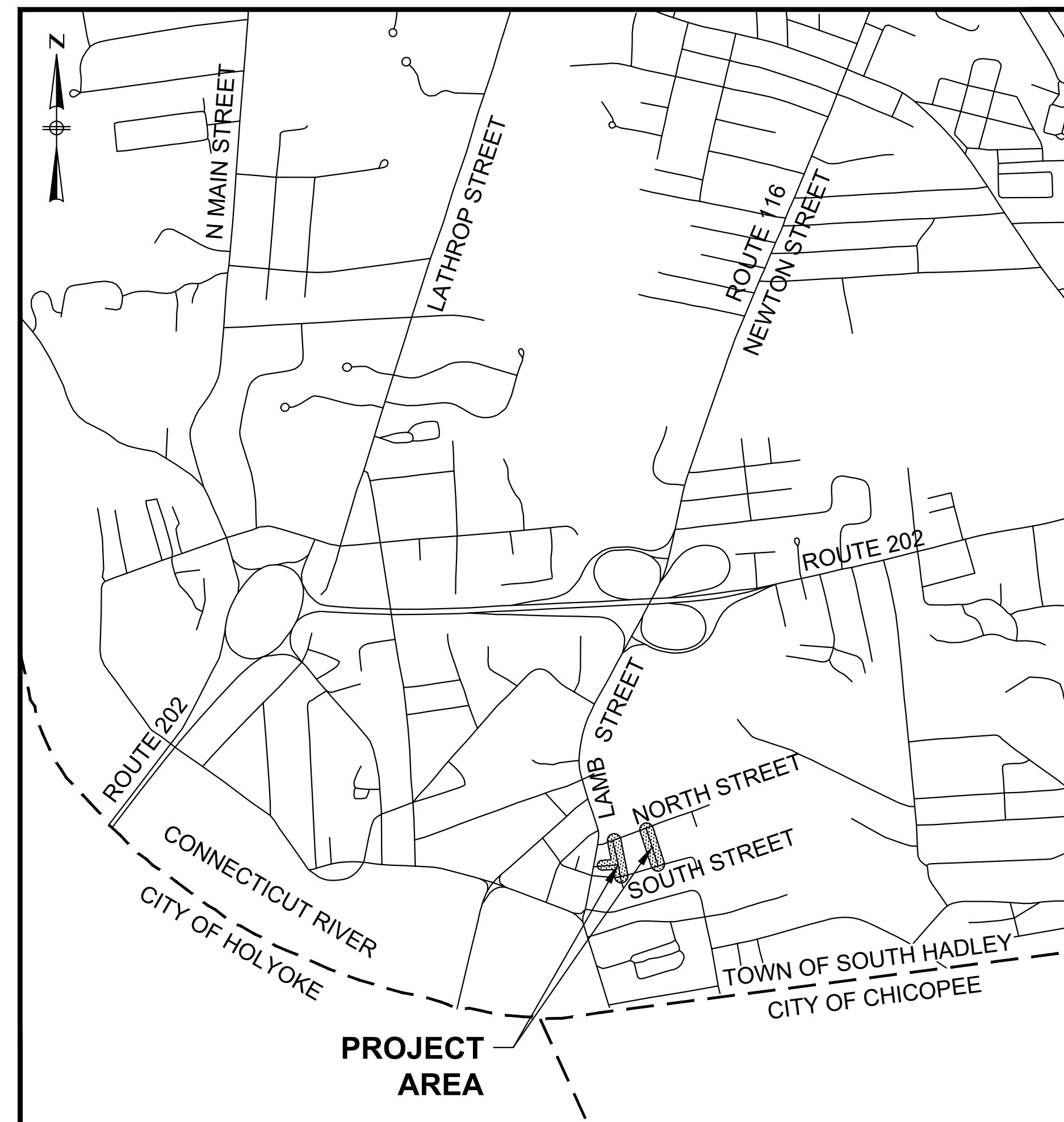
## CENTER STREET NEIGHBORHOOD IMPROVEMENT PROJECT

JUNE 2022

SELECT BOARD  
 JEFF CYR, CHAIR  
 SARAH ETELMAN, VICE CHAIR  
 RENEE SWEENEY, MEMBER  
 CAROL CONSTANT, CLERK  
 ANDREA MILES, MEMBER

TOWN ADMINISTRATOR  
 LISA WONG

DEPARTMENT OF PUBLIC WORKS  
 CHRIS BOUCHARD, DIRECTOR



PROJECT LOCATION

LOCATION MAP  
 SCALE: 1" = 1000'

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**PRELIMINARY  
SUBMISSION**

PREPARED BY:



ISSUE DATE: JULY 6, 2022

REGISTERED PROFESSIONAL DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		RETAINING WALL (TYPE AS NOTED)
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE or LIMIT OF CLEARING AND GRUBBING
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		EROSION CONTROL BARRIER/COMPOST FILTER TUBES
		SIGN AND POST
		CONSTRUCTION BASELINE
		SURVEY LINE
		PEDESTRIAN CURB RAMP
		TREE (SIZE AND TYPE AS NOTED)

PAVEMENT MARKINGS AND SIGNING SYMBOLS

PROPOSED	DESCRIPTION
CW	CROSSWALK, 2 - 12" WHITE LINES (8' WIDTH)
SL	STOP LINE - 12" WHITE LINE 4' BEHIND CW (TYP.)
SWL	SOLID WHITE LINE - 6"
SWCHL	SOLID WHITE CHANNELIZING LINES - 12" (SPACING NOTED)
SWGL	SOLID WHITE GORE LINE 12" @ 45°, (SPACING NOTED)
SWPL	SOLID WHITE PARKING LINE - 4"
BWL	BROKEN WHITE LINE - 6"
DWLEx	DOTTED WHITE LANE EXTENSION LINE - 6" (2' LINE & 6' GAP)
DYLEx	DOTTED YELLOW LANE EXTENSION LINE - 6" (2' LINE & 6' GAP)
BYL	BROKEN YELLOW LINE - 6"
DBYL	DOUBLE YELLOW LINE - 2 - 6" LINES
SYL	SOLID YELLOW LINE - 6"
SYGL	SOLID YELLOW GORE LINE 12" @ 45°, (SPACING NOTED)
	SCHOOL ZONE - WHITE
	HANDICAP SYMBOL - WHITE
	PAVEMENT ARROW - WHITE
ONLY	LEGEND "ONLY" - WHITE

ABBREVIATIONS

GENERAL	DESCRIPTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
ALT	ALTERATION
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL (or EL)	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BR.	BRIDGE
BSW	BACK OF SIDEWALK
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
COND	CONDUIT
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
FM	FORCE MAIN
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
IP	IRON PIPE
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE or LOW POINT
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
O.C.	ON CENTER
PC	POINT OF CURVATURE

ABBREVIATIONS (cont.)

GENERAL	DESCRIPTION
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE or POLY-VINYL -CHLORIDE-PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SD	SUBDRAIN
SHLD	SHOULDER
SHT	SHEET
SMH	SEWER MANHOLE
SP	STRAIN POLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TS	TRAFFIC SIGNAL
TSV&B	TAPPING SLEEVE, VALVE AND BOX
TYP	TYPICAL
UP	UTILITY POLE
UPL	UTILITY POLE w/ LIGHT
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VGC	VERTICAL GRANITE CURB
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
WQU	WATER QUALITY UNIT
WWM	WELDED WIRE MESH (10-GUAGE, 6"x6")
X-SECT	CROSS SECTION

7/6/2022 10:22 AM C:\102005\10282 - SOUTH HADLEY, MA - CENTER ST NEIGHBORHOOD\DRAWING FILES\PLANSET\10282\_LEGEND.DWG (MADOT-D, STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY: SB
DESIGNED BY: SB
CHECKED BY: SD/DM

For Review Only

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SCALE	NONE
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CENTER STREET NEIGHBORHOOD IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS

LEGEND & ABBREVIATIONS

BETA JOB NO.	10282
ISSUE DATE	6/17/2022
SHEET NO.	2 of 16

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

# NOTES

## GENERAL

- ALL PERSONNEL WORKING THE JOB SITE ARE REQUIRED TO HAVE COMPLETED OSHA 10 HOUR TRAINING.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTIES AT ALL TIMES AND NOTIFY ALL ABUTTERS IN ADVANCE OF ANY INTERRUPTIONS TO ACCESS.
- ALL AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK THAT HAVE BEEN DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER AND THE PROPERTY OWNER.
- ALL WORK SHALL COMPLY WITH OSHA'S LATEST STANDARDS. ALL REQUIREMENTS OF OSHA'S SAFETY STANDARDS SHALL BE PROVIDED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO THE PROVISION FOR A COMPETENT PERSON TO SERVE AS ON-SITE SAFETY MANAGER.
- PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS, WITH PARTICULAR ATTENTION TO SUBSURFACE AND ABOVE GRADE UTILITIES.

## PROPERTY LINE, TOPOGRAPHIC, AND WETLAND INFORMATION

- EXISTING CONDITIONS SURVEY PROVIDED BY LIGHTHOUSE LAND SURVEYING, LLC.
- THE COORDINATES, IN FEET, ARE BASED UPON MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011) EPOCH 2010.00 - US FEET.
- THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B).
- THE EXISTING CONDITIONS PLAN MAY NOT INCLUDE ALL EXISTING SITE FEATURES. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL FEATURES.
- CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTY BOUNDS AND MONUMENTS TO THE EXTENT PRACTICABLE. IF ANY PROPERTY BOUNDS OR MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL AT THEIR OWN EXPENSE RETAIN A REGISTERED LAND SURVEYOR TO RESTORE ANY SUCH DAMAGE.

## SITE PREPARATION

- CONTRACTOR MUST PROVIDE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), INCLUDING THE FILING OF A NOTICE OF INTENT WITH THE U.S. EPA TO OBTAIN A NPDES CONSTRUCTION GENERAL PERMIT (CGP) PRIOR TO THE CONTRACTOR COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM INSPECTIONS, MONITORING, AND MAINTENANCE, IF WARRANTED, IN ACCORDANCE WITH THE SWPPP TO COMPLY WITH THE CGP. THE SOIL EROSION SEDIMENT CONTROL PROCEDURES AND DETAILS SHOWN AND DESCRIBED IN THE SWPPP SHALL BE STRICTLY FOLLOWED AND INSTALLED IN A MANNER TO MINIMIZE EROSION FROM DISTURBED AREAS.
- THE CONTRACTOR SHALL NOTIFY DIG SAFE 72 HOURS PRIOR TO COMMENCING WORK, AS WELL AS OWNERS OF UTILITIES NOT INCLUDED WITHIN DIGSAFE.
- THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND SITE CONDITIONS. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OBTAIN THE APPROVAL PRIOR TO PERFORMING THE WORK. PARTICULAR ATTENTION SHALL BE PAID TO EXISTING SUBSURFACE AND ABOVE-GROUND UTILITIES
- THE CONTRACTOR'S ACCESS, STAGING, AND STORAGE AREAS SHALL BE LOCATED WITHIN THE DESIGNATED LIMITS OF THE WORK AREA. NO WORK, STOCKPILING OF MATERIALS, STORAGE OF EQUIPMENT, OR OTHER OPERATIONS OF THE CONTRACTOR SHALL TAKE PLACE OUTSIDE THE LIMITS OF WORK UNLESS AUTHORIZED IN WRITING BY THE ENGINEER.
- CONTRACTOR SHALL REMOVE ALL DEBRIS & RUBBISH FROM THE SITE AND DISPOSE OF SUCH MATERIALS IN A PROPER AND LEGAL MANNER.

## EROSION CONTROL

- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE FULLY INSTALLED PRIOR TO THE START OF CONSTRUCTION, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THESE DEVICES SHALL BE REMOVED UPON COMPLETION OF ALL WORK WHEN ALL DISTURBED AREAS ARE STABILIZED, TO THE SATISFACTION OF THE ENGINEER AND THE TOWN.
- INLET PROTECTION DEVICES SHALL BE INSTALLED WITHIN CATCH BASINS AND DRAIN INLETS WITHIN THE LIMITS OF WORK AND ALL AREAS IMMEDIATELY DOWNGRADE OF THE WORK, AND AS DIRECTED BY THE ENGINEER, AS NECESSARY TO PREVENT SILT-LADEN RUNOFF FROM ENTERING THE TOWN STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL MONITOR ALL AREAS WITHIN THE LIMIT OF THE WORK FOR SIGNS OF EROSION, AND REPAIR/STABILIZE ANY ERODED AREAS, AS REQUIRED, UNTIL FINAL STABILIZATION CAN BE ACHIEVED.
- NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAIN AND/OR UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS, BUFFER ZONES, RESOURCE AREAS, OR ADJACENT PARCELS, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTRACTOR SHALL CLEAN ANY DISTURBED AREAS AS SOON AS PRACTICABLE AND RESTORE THEIR ORIGINAL CONDITIONS. CLEANING AND RESTORATION WITHIN BUFFER ZONES AND RESOURCE AREAS MUST BE PERFORMED UNDER THE SUPERVISION OF A WETLAND CONSULTANT, AS COORDINATED BY ENGINEER. WORK MAY ALSO BE OBSERVED BY THE OWNER.
- CONTRACTOR SHALL SWEEP ALL PAVED AREAS WITHIN THE LIMITS OF WORK AT THE END OF EACH WORK DAY (OR MORE FREQUENTLY AS REQUESTED BY THE OWNER OR ITS AGENT) TO REMOVE SEDIMENT TRACKING CAUSED BY PROJECT-RELATED CONSTRUCTION VEHICLES.
- ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER A CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT PORTION OF THE SITE.
- ALL STOCKPILES AND DISTURBED AREAS SHALL BE STABILIZED IF EXPOSED FOR MORE THAN 30 DAYS. ALL STOCKPILES SHALL BE SURROUNDED BY STRAW WATTLES AND SILT FENCE AND COVERED IN A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIAL.

## CONSTRUCTION

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A ROAD OPENING PERMIT FOR WORK WITHIN STREETS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT SURVEYS.
- PROPOSED BOUNDS, AND BOUNDS REMOVED AND RESET, SHALL BE SET FLUSH WITH THE ADJACENT WALK SURFACE.
- TOPSOIL SHALL BE STRIPPED WITHIN THE LIMITS OF THE PROPOSED SIDEWALKS/LANDSCAPING AREAS, STOCKPILED ON SITE, AND SCREENED FOR RE-USE.
- SAMPLES AND GRAIN SIZE DISTRIBUTION ANALYSES FOR PROPOSED MATERIALS SHALL BE PROVIDED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO USE.
- A MINIMUM OF 12 INCHES OF SOIL COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WHERE BEDROCK IS ENCOUNTERED.
- FOLLOWING COMPLETION OF WORK, ANY AND ALL DAMAGE TO TOWN WAYS CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED UNDER THE DIRECTION OF THE OWNER.
- UNLESS OTHERWISE NOTED, ALL EXISTING WALLS WITHIN THE PROJECT LIMITS SHALL BE RETAINED.
- MAILBOXES, FENCES, SIGNS, ETC., THAT NEED TO BE RELOCATED SHALL BE REMOVED AND RESET (R&R) IN THEIR NEW LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE OWNER SHALL BE CONSULTED PRIOR TO THE WORK. ALL FENCES AND HEDGES SHALL BE RETAINED AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- SURPLUS MATERIALS OBTAINED FROM ANY TYPE OF EXCAVATION, AND ALL EXISTING AND OTHER MATERIALS NOT REQUIRED TO BE REMOVED AND STACKED OR NEEDED FOR USE ON THE PROJECT, AS DETERMINED BY THE ENGINEER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF SUBJECT TO THE REGULATIONS AND REQUIREMENTS OF LOCAL AUTHORITIES GOVERNING THE DISPOSAL OF SUCH MATERIALS, AT NO ADDITIONAL COMPENSATION.
- TRAFFIC CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, CONES, SIGNS AND BARRICADES AS REQUIRED TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE GENERAL WORK OF THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- ACCESS FOR ABUTTERS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL ERECT TEMPORARY CONTROLS SUCH AS CONES, DRUMS, SIGNAGE, FENCING, AND BARRICADES, TO THE SATISFACTION OF THE ENGINEER, TO CLOSE OFF THE CONSTRUCTION AREA FROM ADJACENT SIDEWALKS AND PUBLIC WAYS WHOSE USE CONFLICTS WITH THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE AND/OR RESTORE CONTROLS THAT ARE DAMAGED DUE TO THE CONSTRUCTION, AND/OR ACCIDENTS, VANDALISM OR IN ANY OTHER MANNER FOR THE DURATION OF THE PROJECT. ALL WORK TO FURNISH, INSTALL, RELOCATE AND REMOVE THE CONTROLS SHALL BE CONSIDERED INCIDENTAL TO AND NO SEPARATE PAYMENT WILL BE MADE.
- SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS AND THE LATEST VERSION OF THE MUTCD.
- THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- ALL EXCAVATIONS EXPOSED TO VEHICLE TRAFFIC IN THE STREET, DRIVEWAYS, PARKING LOTS, AND SIDEWALKS SHALL BE PROPERLY COVERED, SECURED, AND PINNED.
- WHEN WORKING NEXT TO EXISTING TREES, WALLS, FENCES, AND OTHER FEATURES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DISTURB THESE OBJECTS. IF THE CONTRACTOR DOES DAMAGE ANY OF THESE OBJECTS AS A RESULT OF THE CONSTRUCTION PROCESS, IT SHALL BE THEIR RESPONSIBILITY (THE CONTRACTOR) TO REPAIR ALL DAMAGES AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF EXISTING TREES, WALLS OR FENCES SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR EXCAVATION AND CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, TREES, GRATE, POLES ETC.) TO BE SET/ADJUSTED WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 36" EXCLUDING THE CURB. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENTS.
- SIGNS, POLES, AND OTHER FEATURES LOCATED IN PROPOSED SIDEWALK SHALL BE BOXED AND PROVIDED FLEXIBLE JOINT FILLER.

## UTILITIES

- THE ACCURACY AND COMPLETENESS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN ON THE PLANS IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, DEPTH, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. ALL PRIVATELY-OWNED UTILITY STRUCTURES, WITHIN AREAS AFFECTED BY THE WORK, SHALL BE ADJUSTED OR REMODELED TO NEW LINE AND GRADE AS DIRECTED BY THE ENGINEER. ANY UTILITY AND GUY POLES, WITHIN AREAS AFFECTED BY THE WORK, SHALL BE REMOVED AND RESET BY THE RESPECTIVE UTILITY COMPANY. ALTERATIONS TO UTILITIES AND UTILITY STRUCTURES NOT PRIVATELY OWNED SHALL BE MADE BY THE RESPECTIVE UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK IN ADVANCE WITH THOSE UTILITY OWNERS.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
- ALL EXISTING UTILITIES SHALL BE RETAINED UNLESS OTHERWISE NOTED ON THE PLANS.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS, DRAIN PIPES, OR OTHER OBJECTS FOR CONTRACTOR'S CONVENIENCE TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE ITEMS TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER. ANY EXISTING PIPE OR UTILITY DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER.
- DRAINAGE STRUCTURE FRAMES AND GRATES/COVERS SHALL CLEARLY ALIGN WITH THE OPENINGS IN THE PRECAST STRUCTURES AND THE GRADE OF THE ROADWAY.

## LANDSCAPE AND PLANTING

- AREAS TO BE LOAMED AND SEEDED AS DEPICTED ON THE DRAWINGS SHALL RECEIVE A MINIMUM OF 6 INCHES OF LOAM BORROW, PROCESSED PLANTING MATERIAL, OR TOPSOIL. MATERIALS SHALL MEET THE REQUIREMENTS SPECIFIED IN THE FOLLOWING SUBSECTION OF DIVISION III, MATERIALS:
  - LOAM BORROW M1.05.0
  - LIMESTONE M6.01.0
  - FERTILIZER M6.02.0
  - GRASS SEED M6.03.0
  - CROWN VETCH SEED M6.03.2
- EXISTING VEGETATION SHALL BE PRESERVED TO EXTENT POSSIBLE UNLESS NECESSARY FOR CONSTRUCTION OR OTHERWISE DEPICTED ON THE PLANS.
- ALL TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE RETAINED AND PROTECTED UNLESS OTHERWISE NOTED ON THE PLANS.
- NO PESTICIDES OR HERBICIDES SHALL BE USED WITHIN 200 FEET OF ANY AREA DEFINED BY 333 CMR 11.00 AND 14.00. THESE AREAS INCLUDE, BUT ARE NOT LIMITED TO, ROADWAYS, AGRICULTURAL AREAS, SENSITIVE AREAS, WETLANDS, AND VERNAL POOLS.

D:\110200S\110202 - SOUTH HADLEY, MA - CENTER ST NEIGHBORHOOD\DRAWING FILES\PLANSET\110202\_DETAILS.DWG (MADOT-D-STR)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY: SB
DESIGNED BY: SB
CHECKED BY: SD/DM

For  
Review  
Only



SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS

GENERAL NOTES

BETA JOB NO.	10282
ISSUE DATE	6/17/2022
SHEET NO.	3 of 16

**PAVEMENT NOTES**

**FULL DEPTH PAVEMENT / PAVEMENT REMOVAL & REPLACEMENT**

- SURFACE: 1 3/4" SUPERPAVE SURFACE COURSE 12.5 POLYMER (SSC -12.5 -P)
- INTERMEDIATE: 2 1/4" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19) OVER
- BASE: 4" SUPERPAVE BASE COURSE 37.5 (SBC-37.5)
- SUB BASE: RETAIN AND COMPACT EXIST. GRAVEL SUB-BASE. (DENSE GRADED CRUSHED STONE CAN BE ADDED TO REGRADE SUBBASE AS REQUIRED WITH ENGINEERS APPROVAL) PROVIDE 8 INCHES GRAVEL BORROW TYPE B WHERE NO EXISTING SUB BASE IS PRESENT.

**CEMENT CONCRETE FOR WHEELCHAIR RAMP**

- SURFACE: 4" CEMENT CONCRETE WALK SURFACE (4,000 PSI, 3/4", 610) OVER
- BASE: 8 INCHES GRAVEL BORROW TYPE B

**HOT MIX ASPHALT SIDEWALKS**

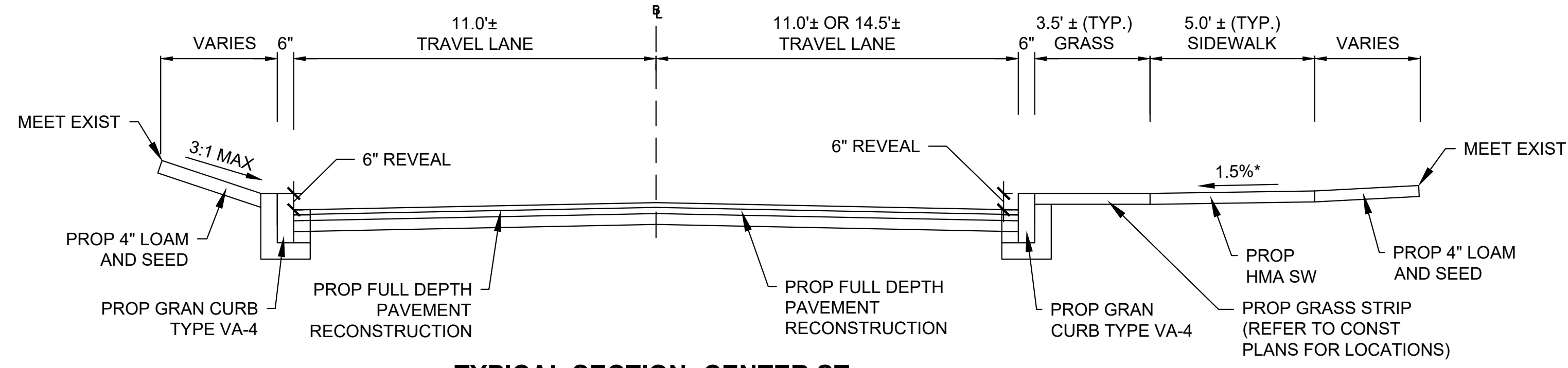
- SURFACE: 1.5" HOT MIX ASPHALT SURFACE COURSE OVER
- INTERMEDIATE: 1.5" HOT MIX ASPHALT INTERMEDIATE COURSE OVER
- BASE: 8" GRAVEL BORROW TYPE B

**HOT MIX ASPHALT DRIVEWAYS**

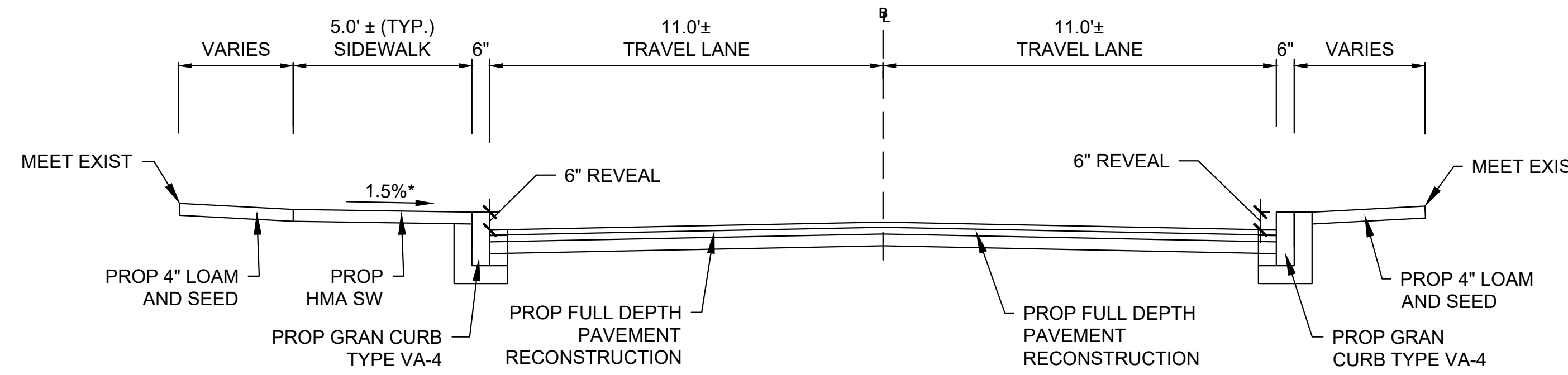
- SURFACE: 1.5" HOT MIX ASPHALT SURFACE COURSE OVER
- INTERMEDIATE: 2.5" HOT MIX ASPHALT INTERMEDIATE COURSE OVER
- BASE: 8" GRAVEL BORROW TYPE B

**HOT MIX ASPHALT PATCHING**

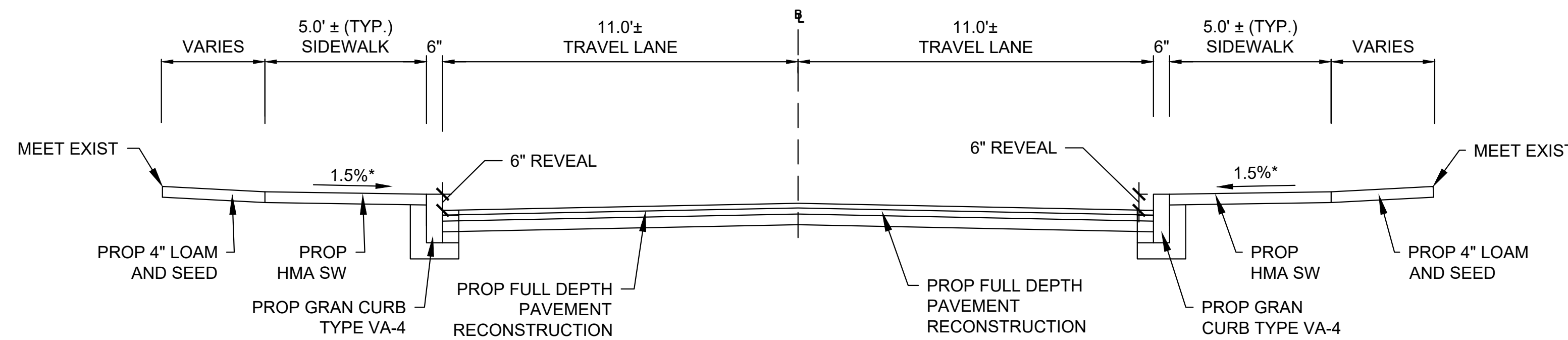
- SURFACE: 1.5" HOT MIX ASPHALT SURFACE COURSE OVER
- INTERMEDIATE: 2.5" HOT MIX ASPHALT INTERMEDIATE COURSE
- BASE: 8" GRAVEL BORROW TYPE B  
(AS REQUIRED TO BE DETERMINED BY ENGINEER)



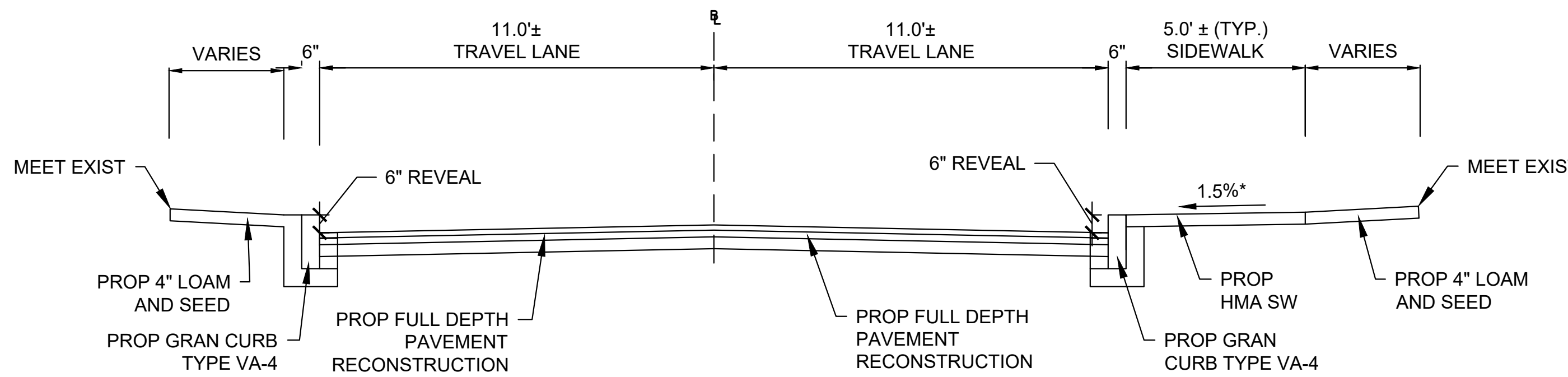
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NOT TO SCALE



**TYPICAL SECTION: WARNER ST STA 20+00 TO 22+00**  
NOT TO SCALE



**TYPICAL SECTION: WARNER ST STA 22+00 TO 23+15**  
NOT TO SCALE



**TYPICAL SECTION: GRAVES ST**  
NOT TO SCALE

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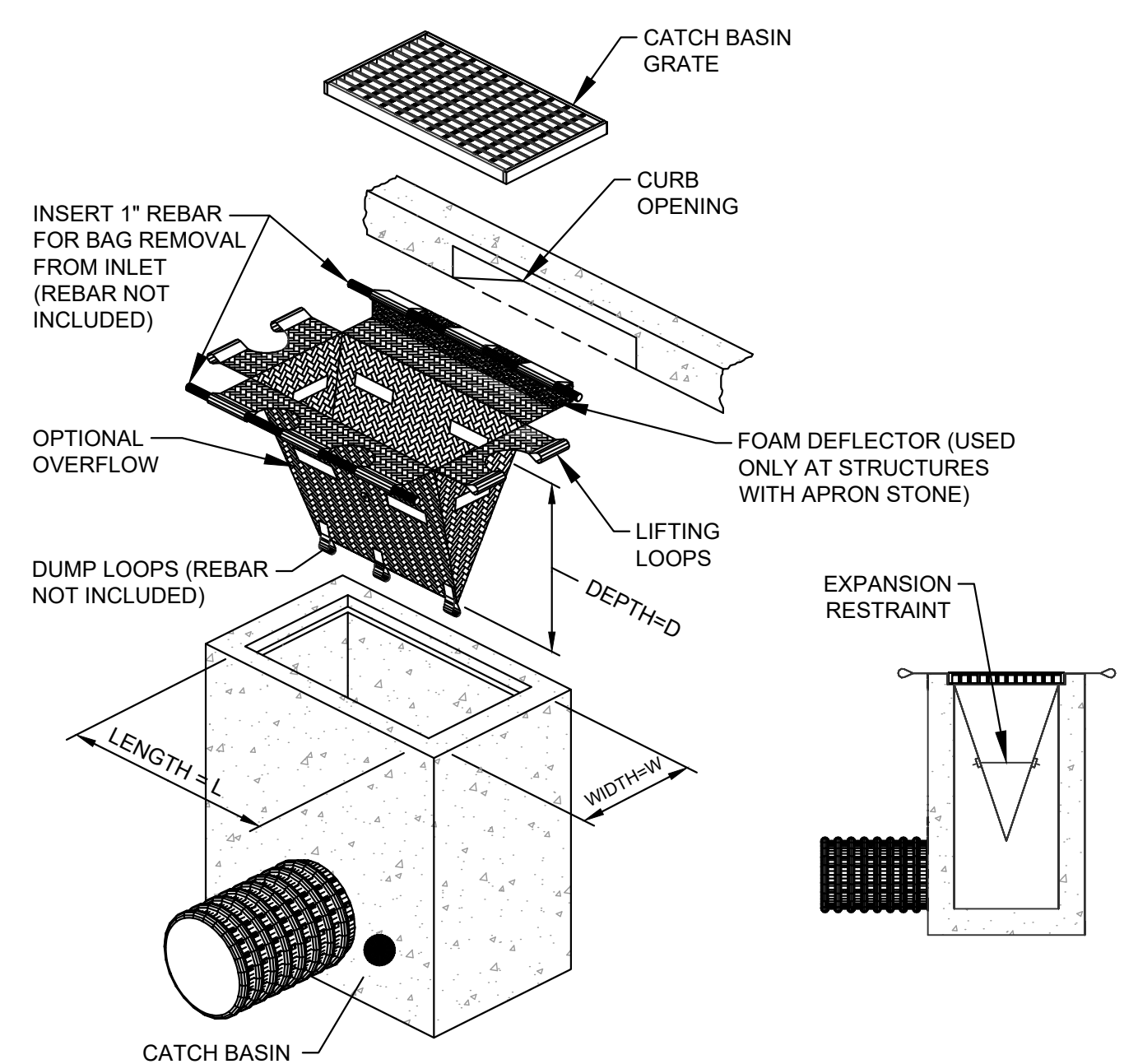
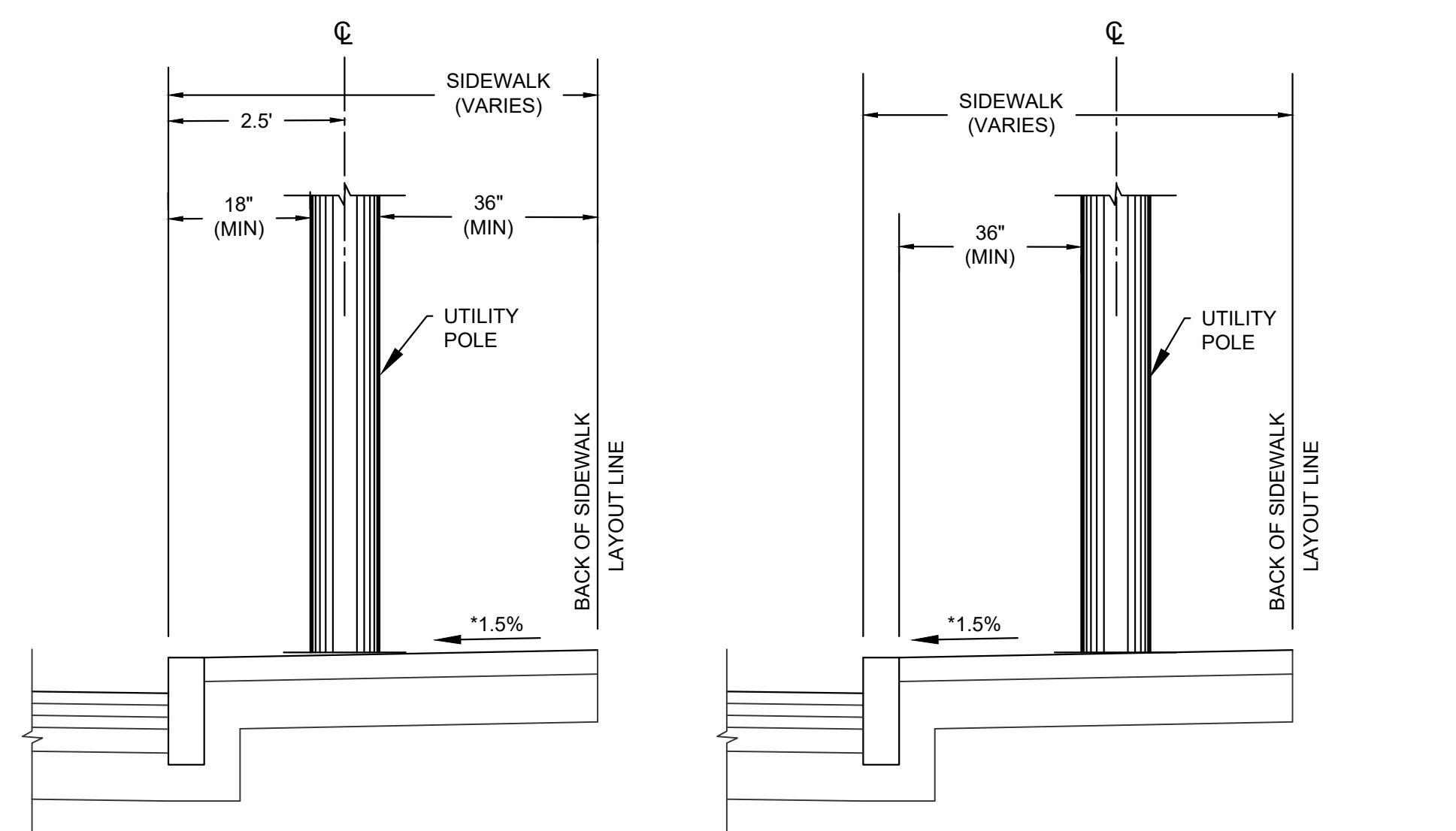
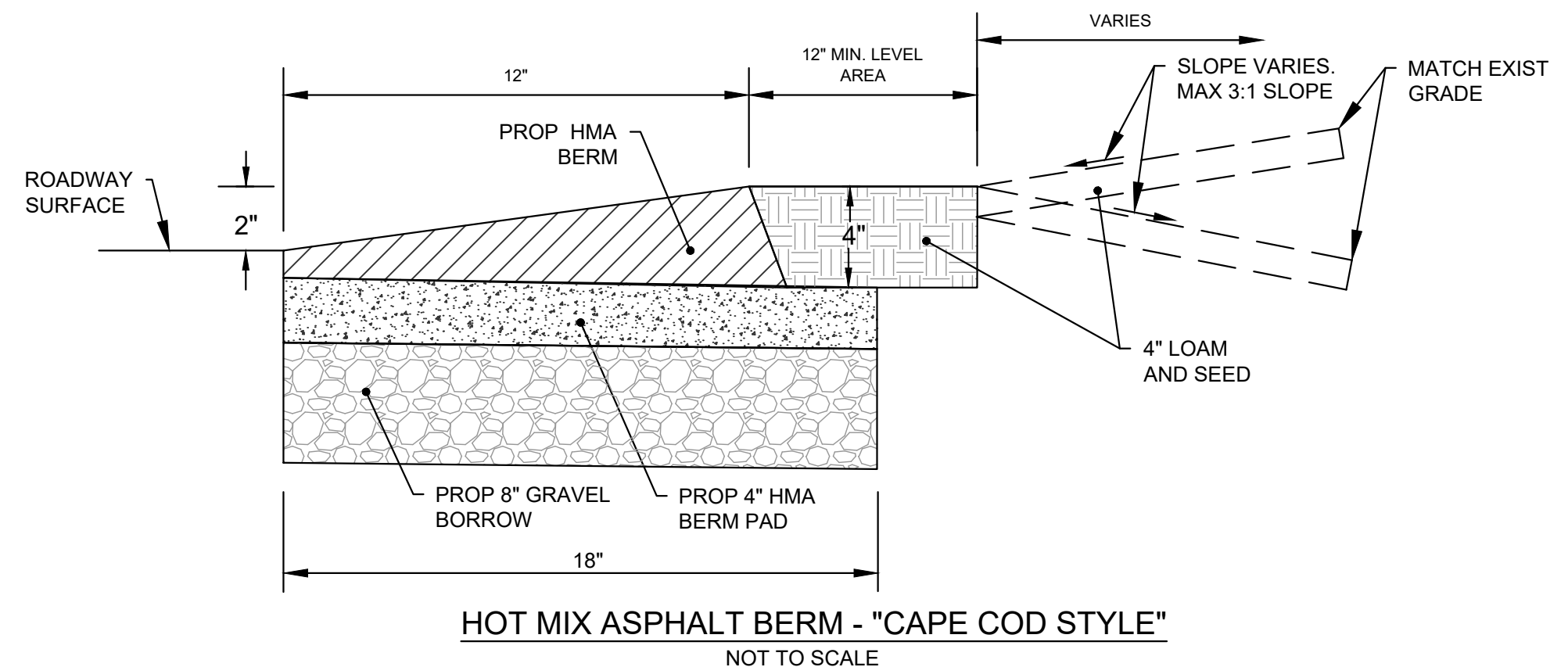
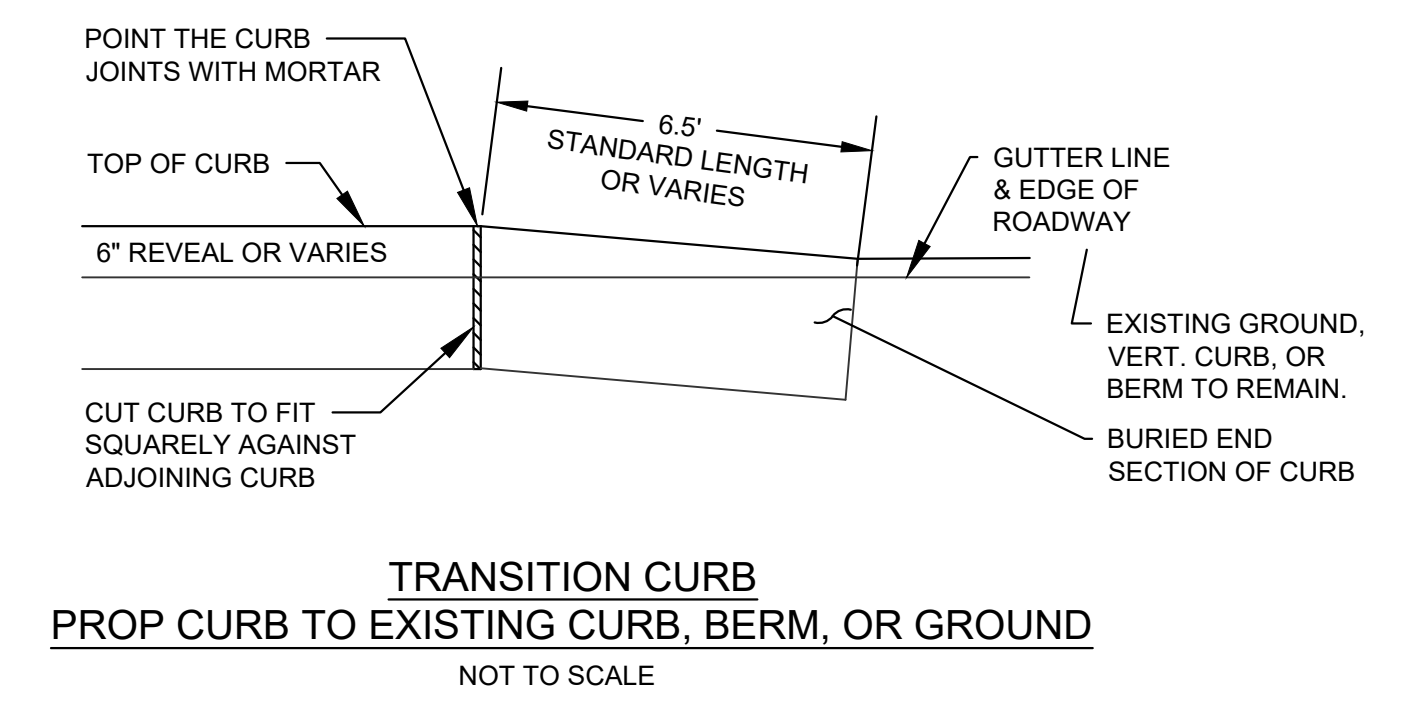
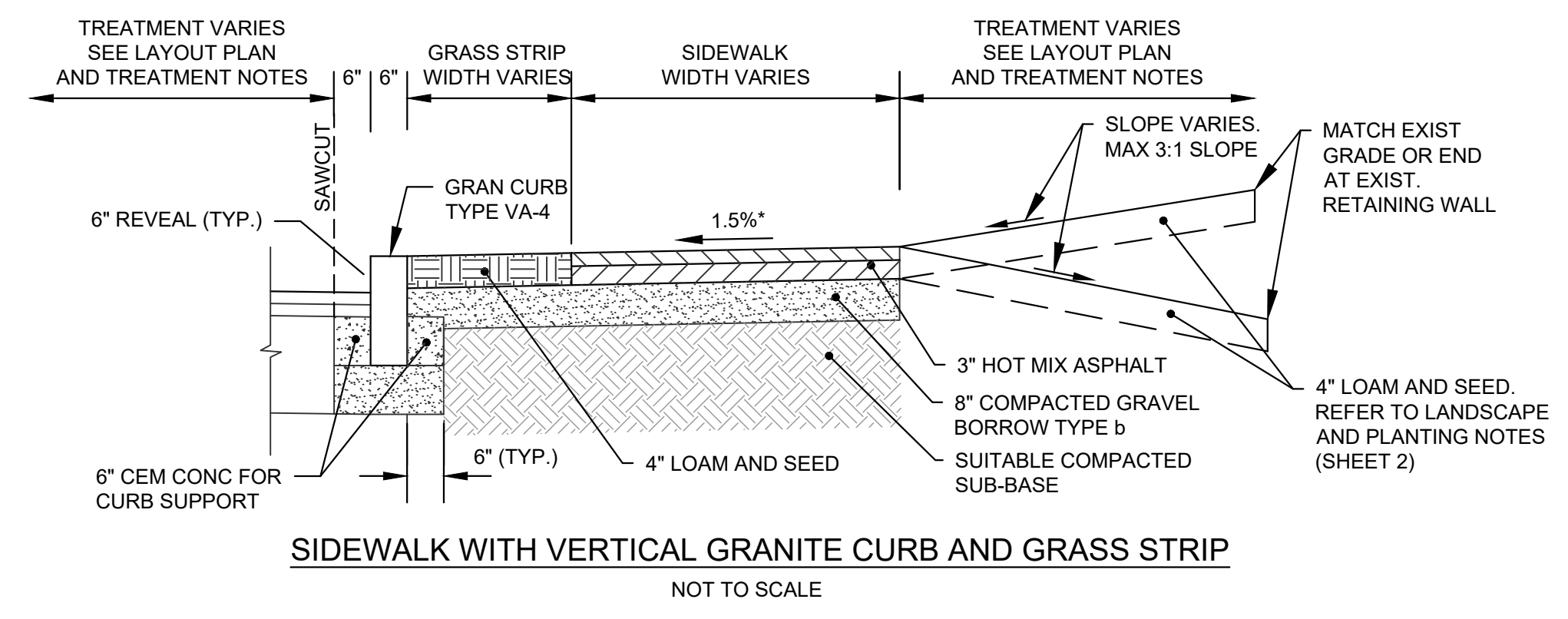
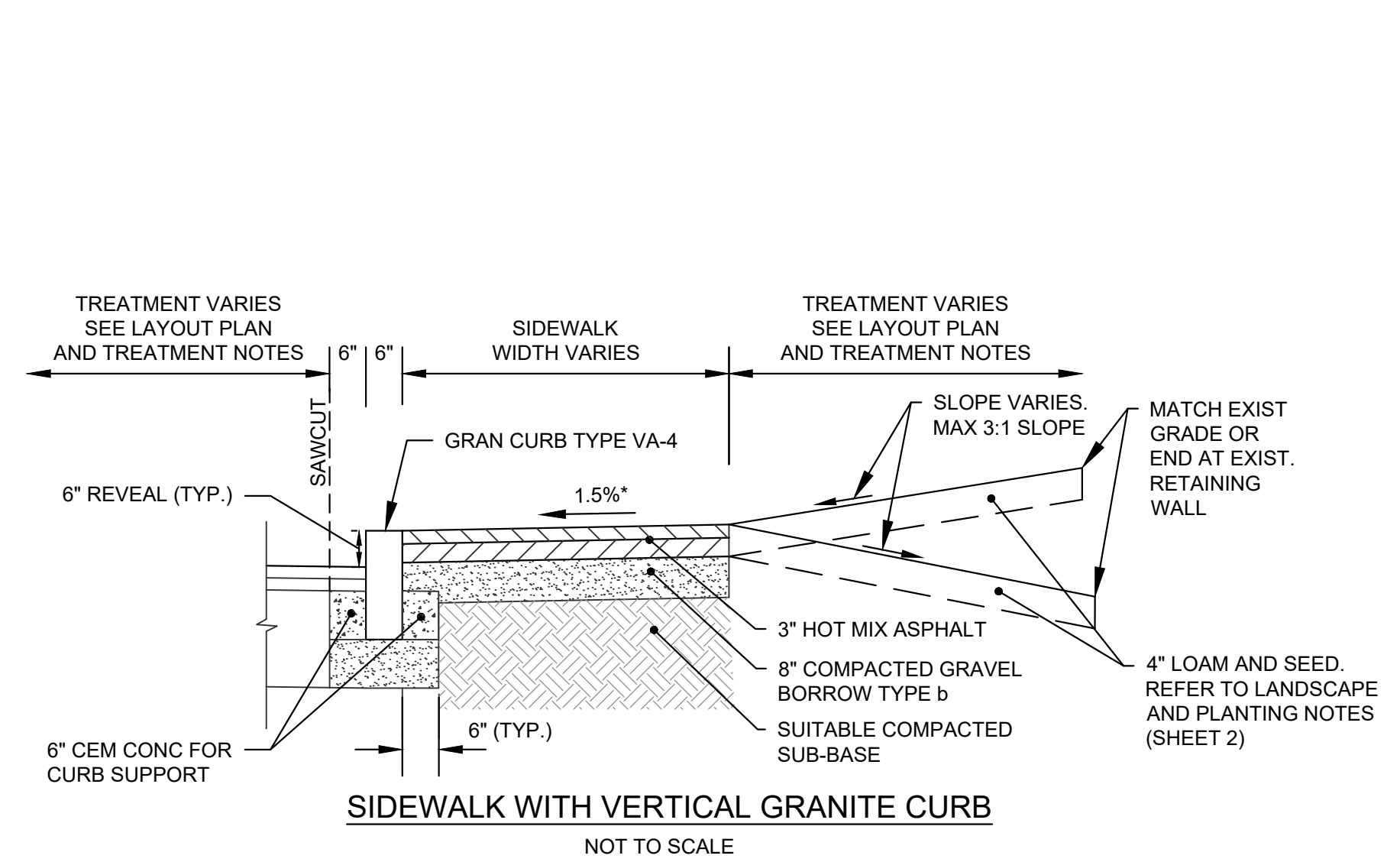
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**CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS**  
CONSTRUCTION DETAILS

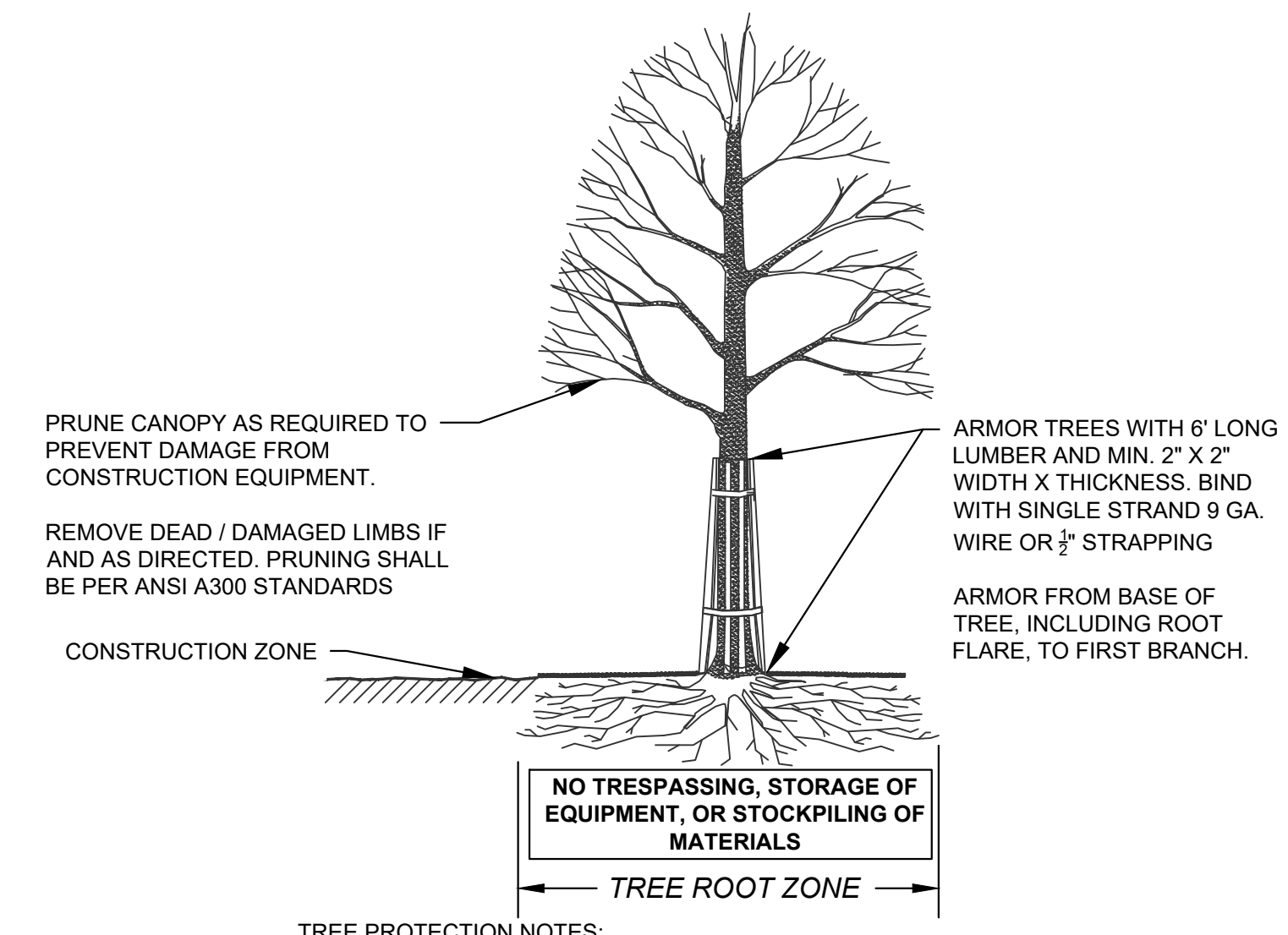
BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 4 of 16



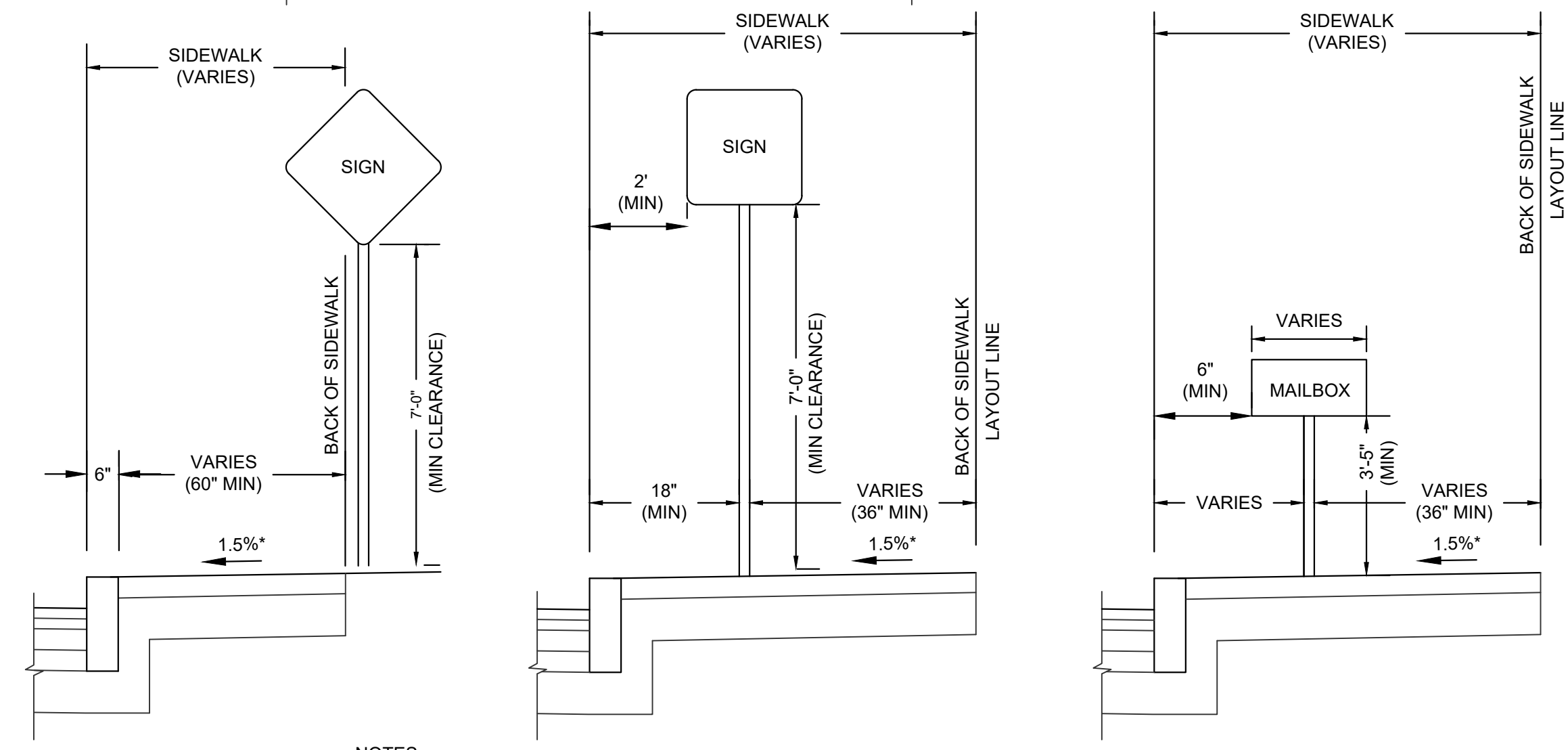
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- NOTES**
- CONTRACTOR SHALL MAINTAIN ALL CATCH BASIN SEDIMENT CONTROL DEVICE INSTALLATIONS AND REPLACE WHEN SATURATED WITH SEDIMENT BASED ON MANUFACTURER RECOMMENDATIONS. SILT SACK SHALL BE INSPECTED AFTER EVERY RAIN EVENT BUT NO LONGER THAN EVERY TWO WEEKS.
  - SILT SACK SHALL BE DOUBLE NEEDLE SEWN POLYPROPYLENE GEOTEXTILE FABRIC AND RATED FOR HIGH FLOW UNLESS OTHERWISE DIRECTED.
  - CONTRACTOR SHALL PROVIDE CURB OPENING DEFLECTOR AT ALL CATCH BASINS AS NECESSARY.



- TREE PROTECTION NOTES:**
- TREE PROTECTION SHALL BE APPLIED TO ALL TREES TO REMAIN WITHIN 10 FEET OF THE LIMITS OF WORK AND AS DIRECTED BY THE ENGINEER.



- NOTES**
- MINIMUM CLEAR PATH ON ALL SIDEWALKS SHALL BE 36 INCHES, EXCLUDING THE CURB
  - MAILBOX LOCATIONS SHALL BE IN ACCORDANCE WITH UNITED STATES POST OFFICE REQUIREMENTS.
  - CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, POLES, ETC.) TO BE SET WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 36 INCHES NOT INCLUDING CURB. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENTS.

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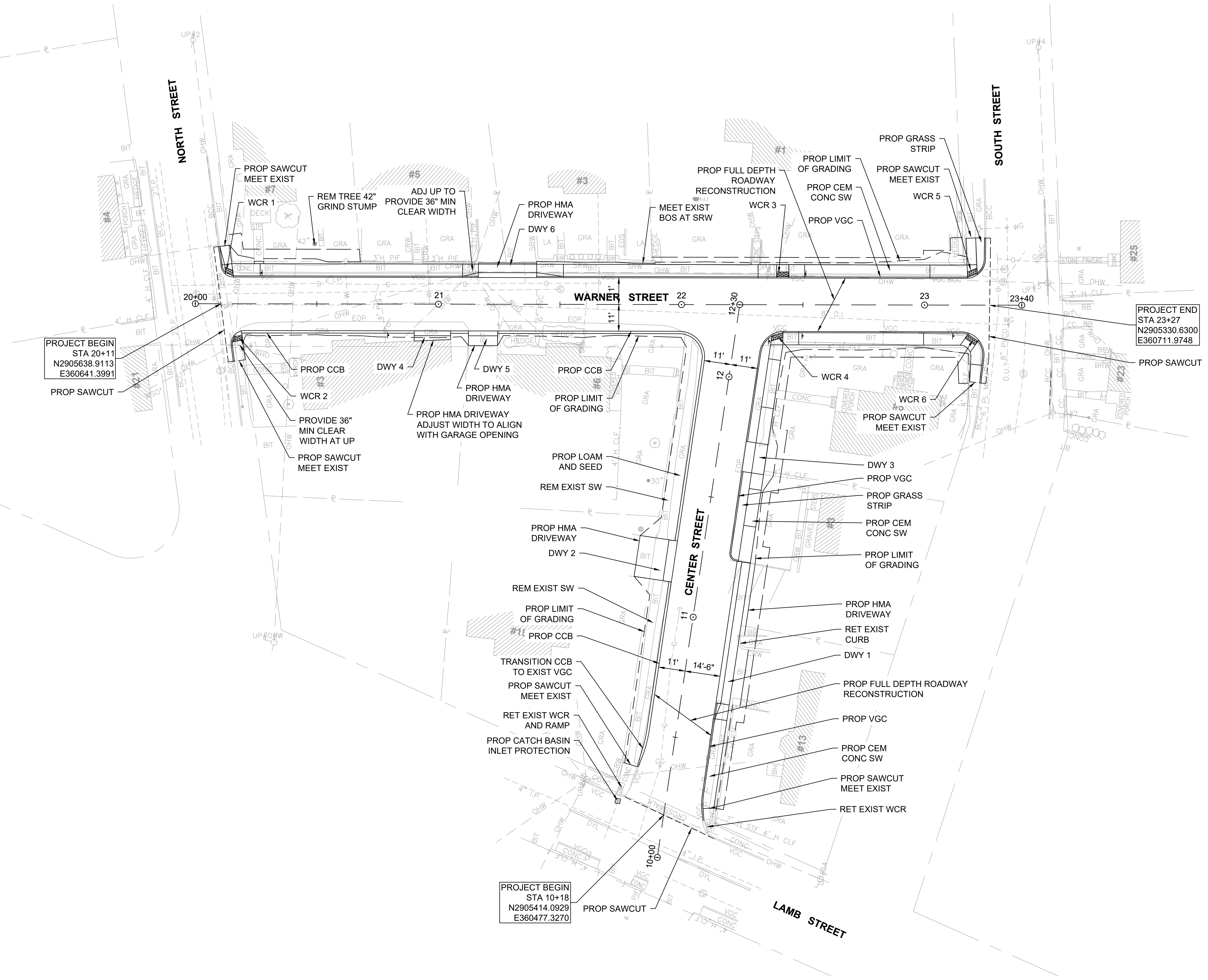
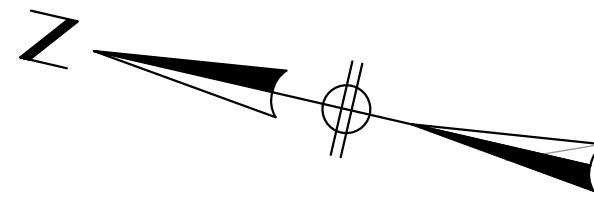
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**CENTER STREET NEIGHBORHOOD IMPROVEMENT PROJECT**  
SOUTH HADLEY, MASSACHUSETTS  
CONSTRUCTION DETAILS

BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 6 of 16

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PROJECT BEGIN  
STA 20+11  
N2905638.9113  
E360641.3991

PROJECT END  
STA 23+27  
N2905330.6300  
E360711.9748

PROJECT BEGIN  
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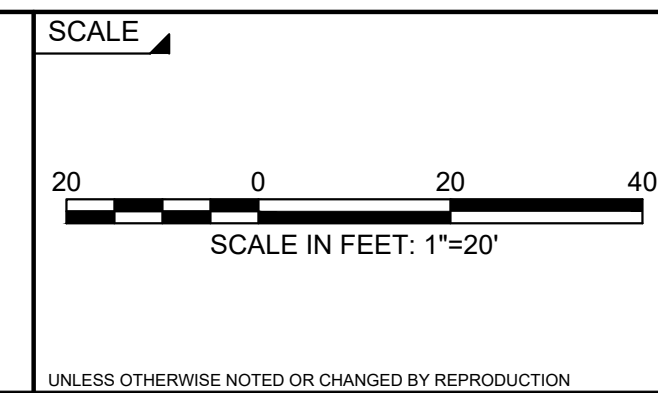
NOTE:  
1. ALL EXISTING UTILITIES WITHIN LIMITS OF WORK SHALL BE ADJUSTED TO PROPOSED ROADWAY GRADE

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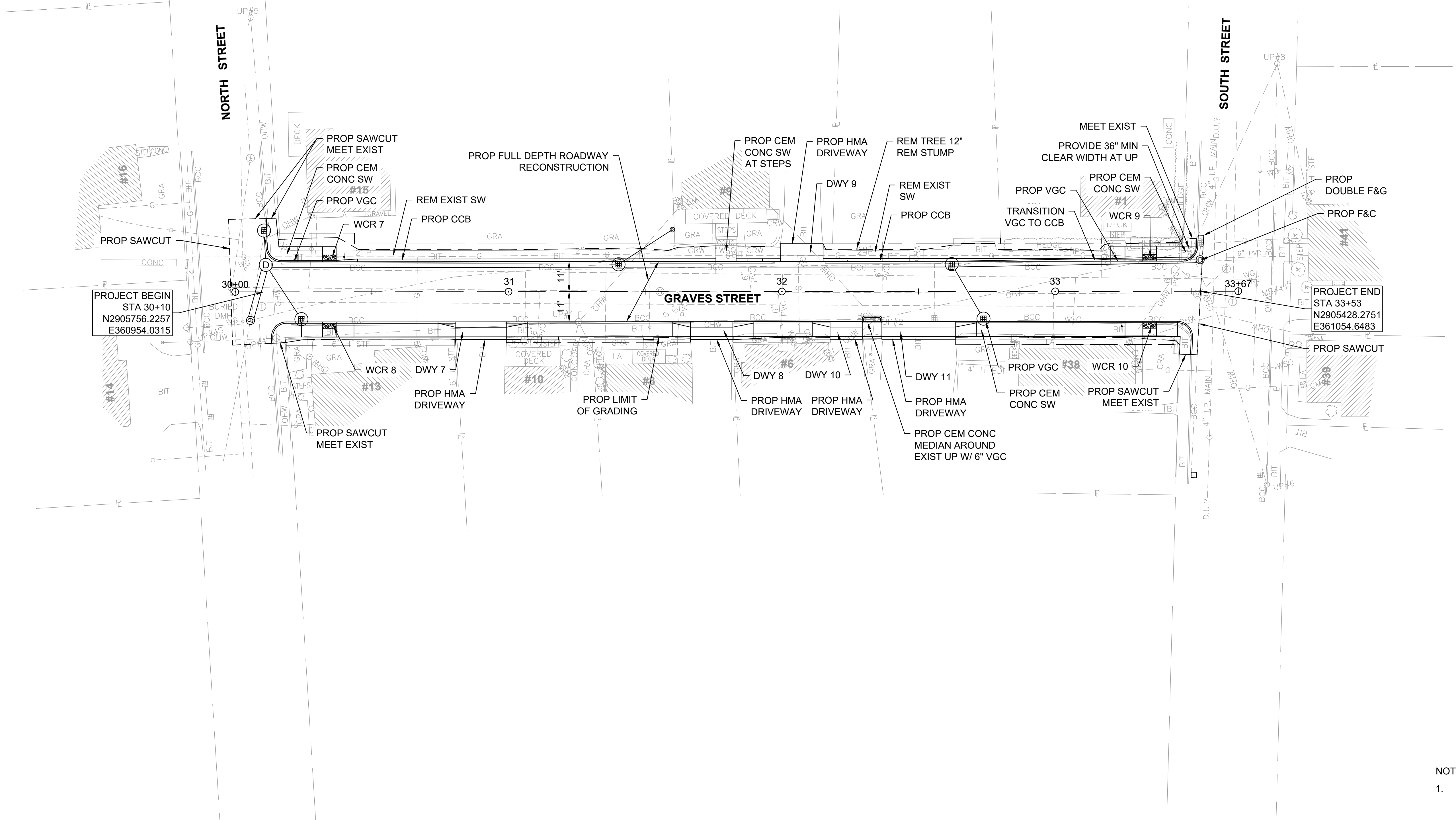
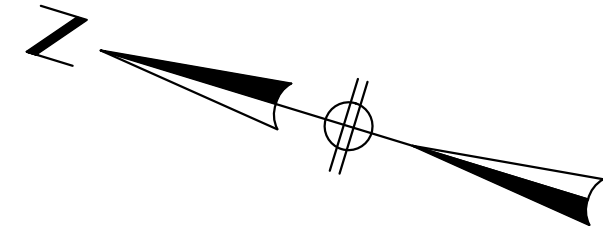
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**CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT**  
SOUTH HADLEY, MASSACHUSETTS

CONSTRUCTION PLAN

BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 8 of 16



PROJECT BEGIN  
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E360954.0315

PROJECT END  
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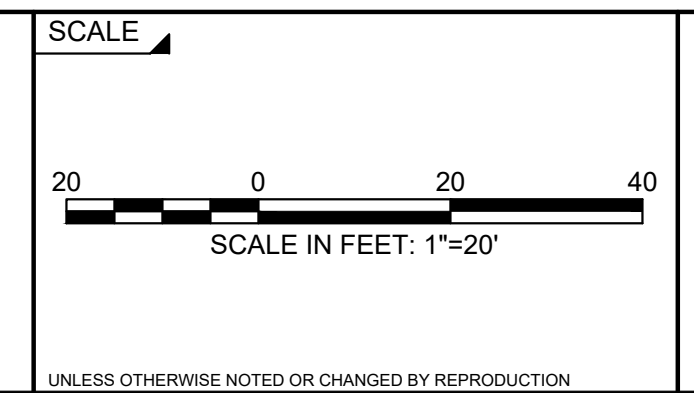
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DESIGNED BY:  
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CHECKED BY:  
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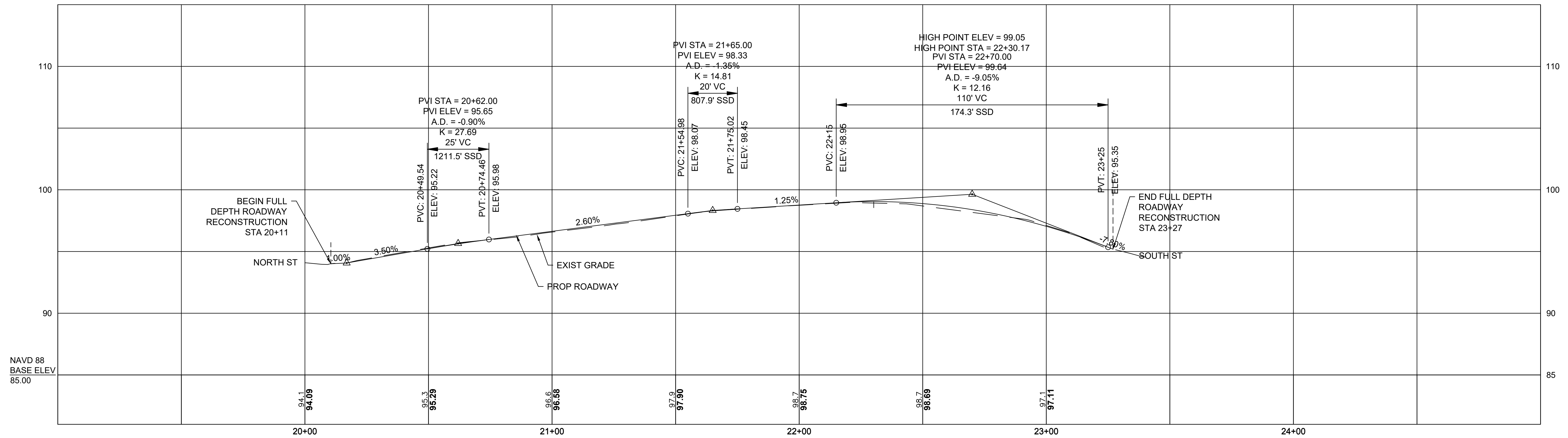
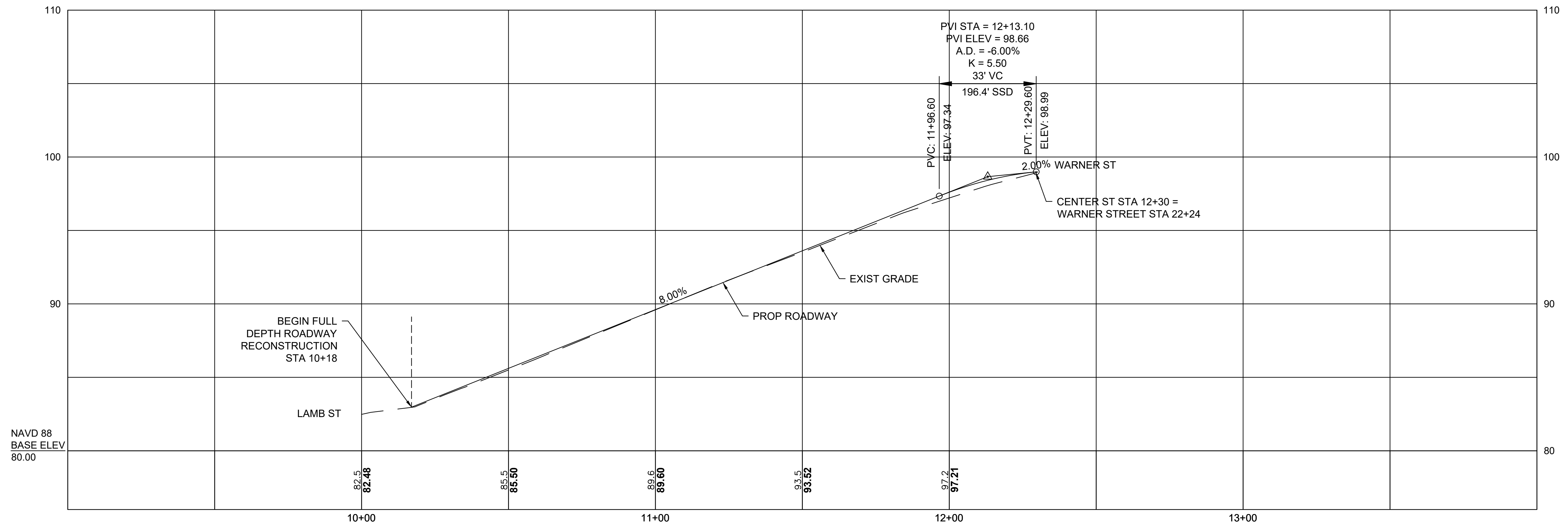
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CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS

CONSTRUCTION PLAN

BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 9 of 16

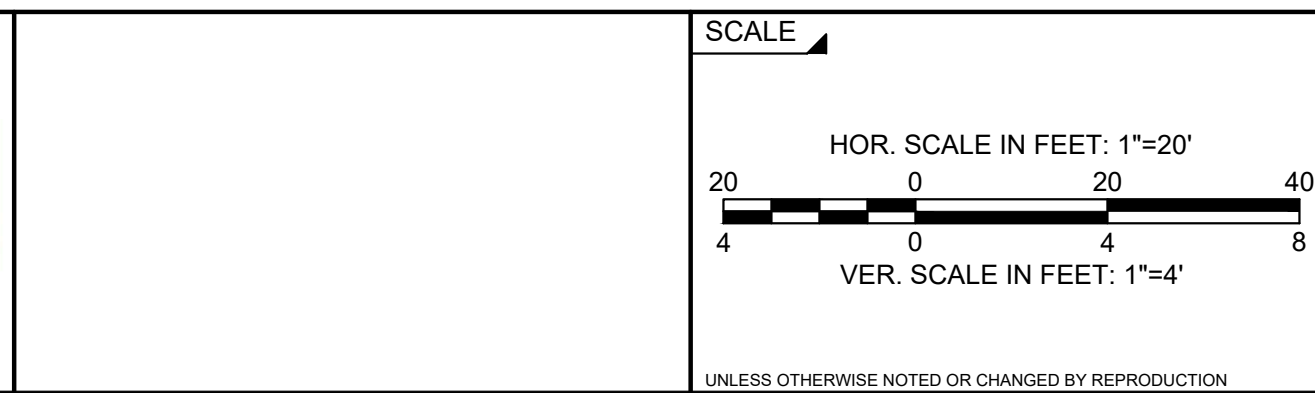


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NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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CHECKED BY:  
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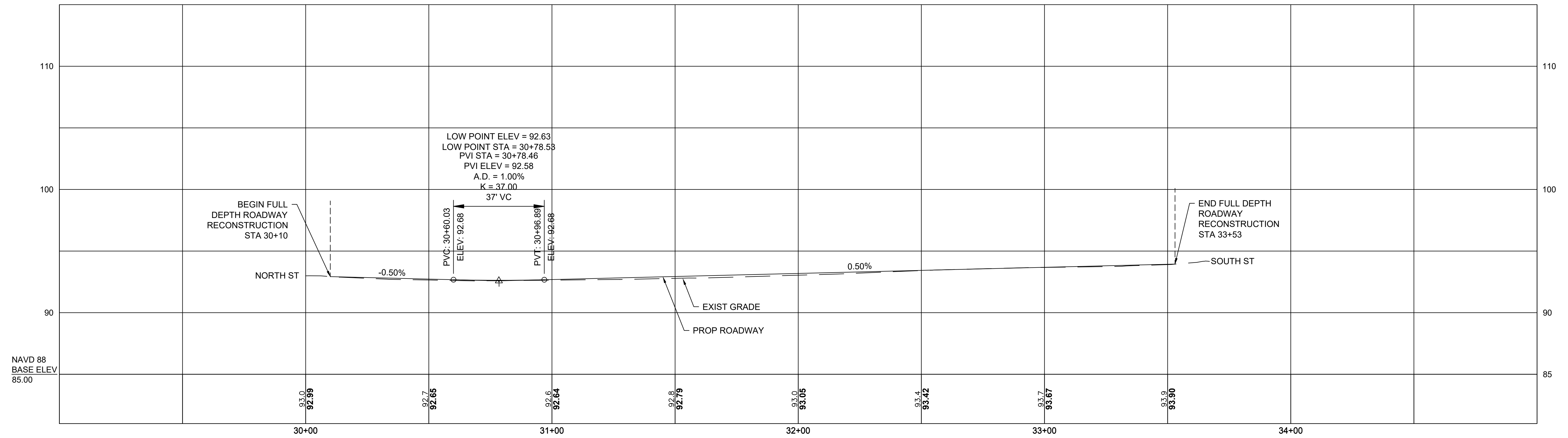


**CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS**

PROFILE

BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 10 of 16

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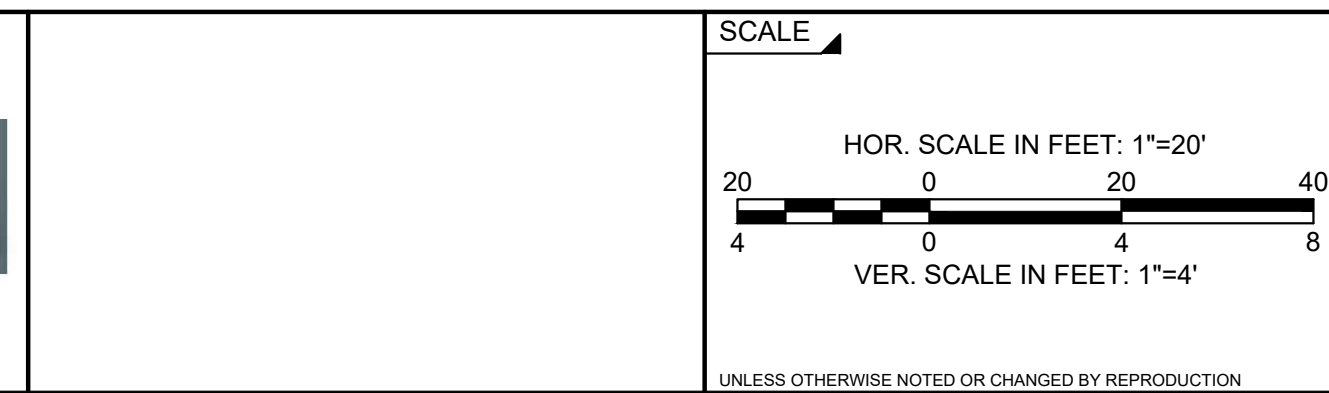
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CHECKED BY:  
SD/DM

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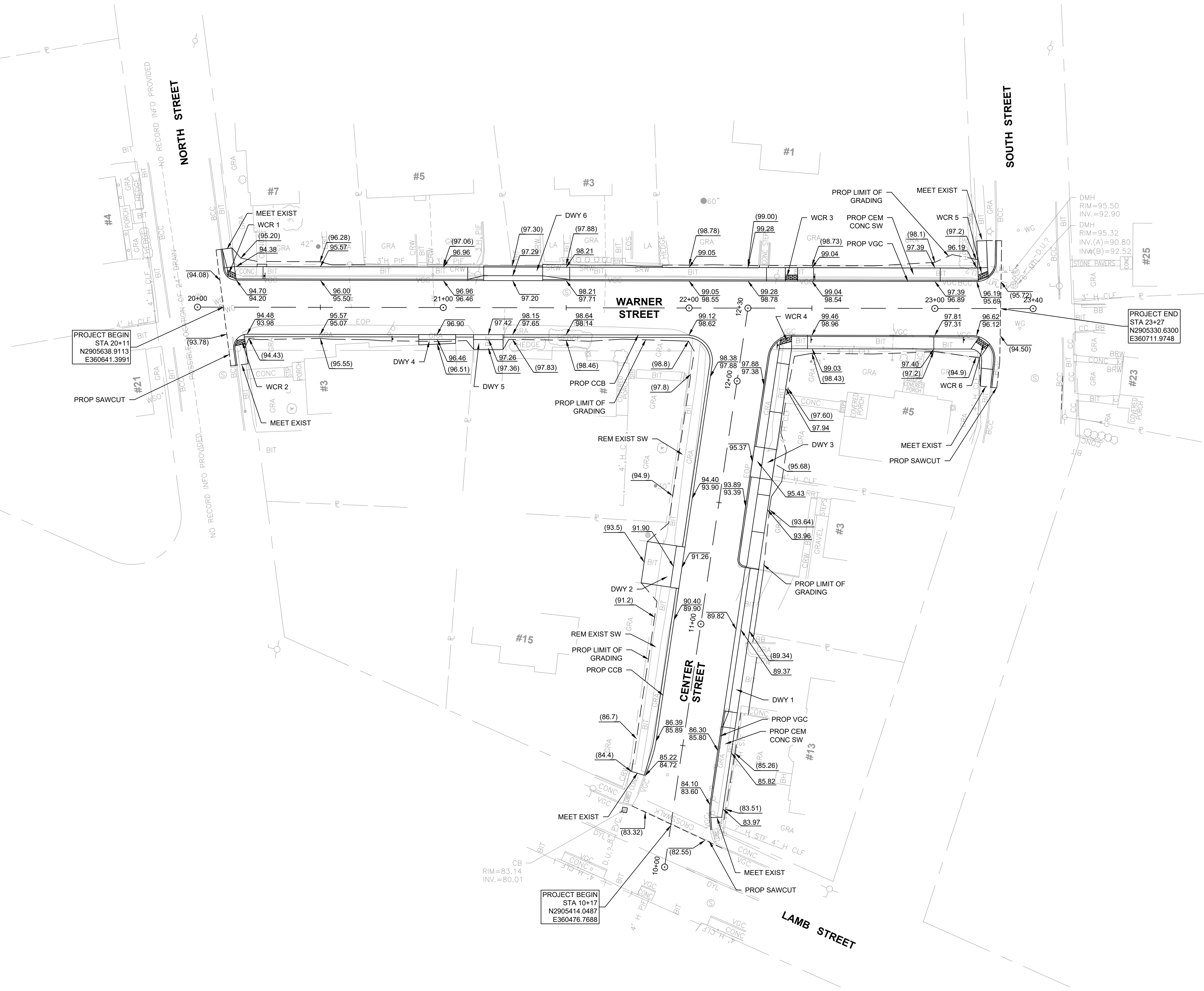
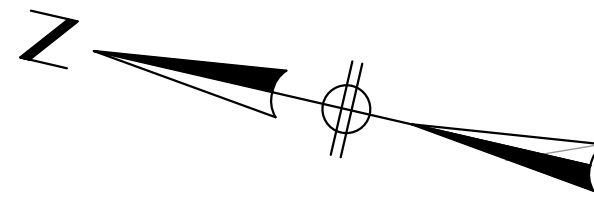
**CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS**

PROFILE

BETA JOB NO. 10282

ISSUE DATE 6/17/2022

SHEET NO. 11 of 16



PROJECT BEGIN  
STA 20+11  
N2905638.9113  
E360641.3991

PROJECT BEGIN  
STA 10+17  
N2905414.0487  
E360476.7688

PROJECT END  
STA 23+27  
N2905330.6300  
E360711.9748

NOTE:  
1. ALL EXISTING UTILITIES WITHIN LIMITS OF WORK SHALL BE ADJUSTED TO PROPOSED ROADWAY GRADE

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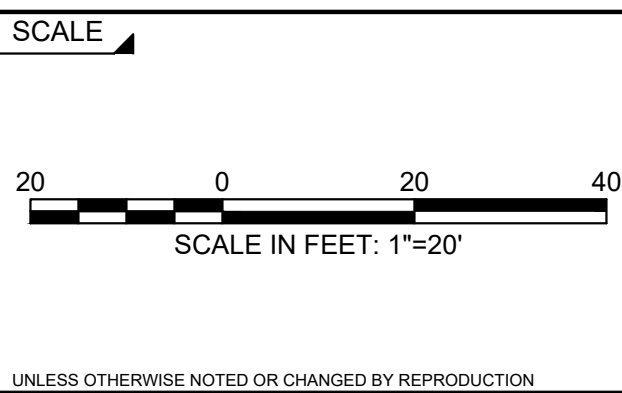
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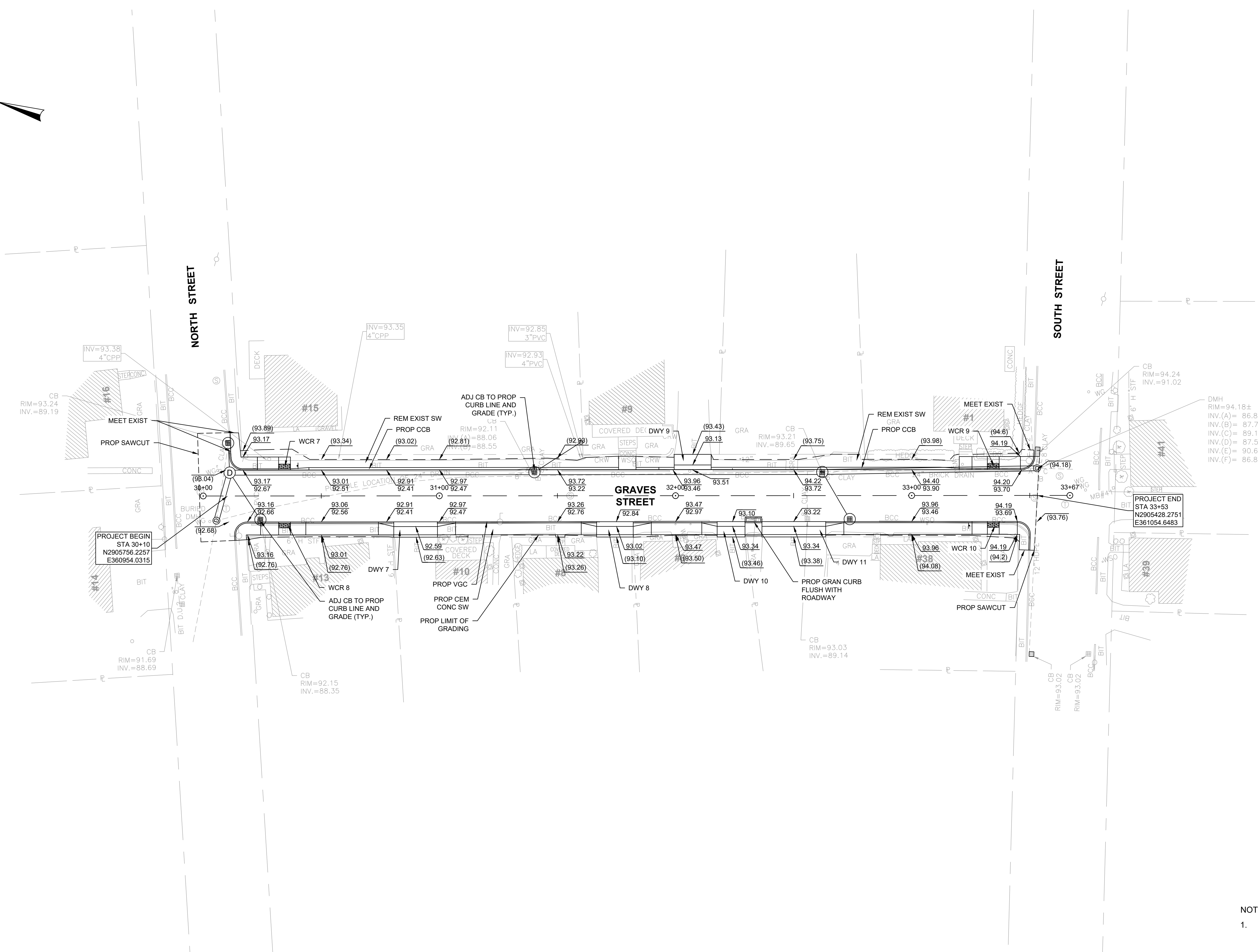
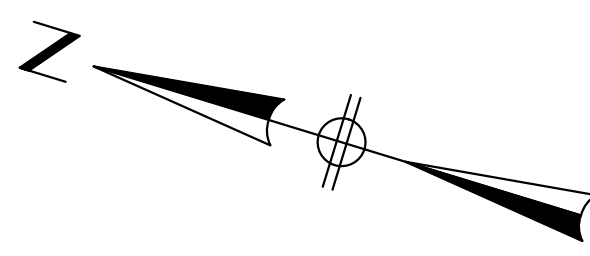


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**CENTER STREET NEIGHBORHOOD IMPROVEMENT PROJECT**  
**SOUTH HADLEY, MASSACHUSETTS**  
GRADING PLAN

BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 12 of 16



NOTE:  
 1. ALL EXISTING UTILITIES WITHIN LIMITS OF WORK SHALL BE ADJUSTED TO PROPOSED ROADWAY GRADE

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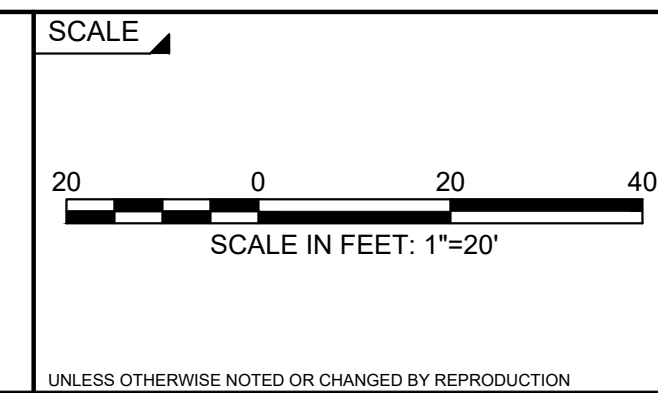
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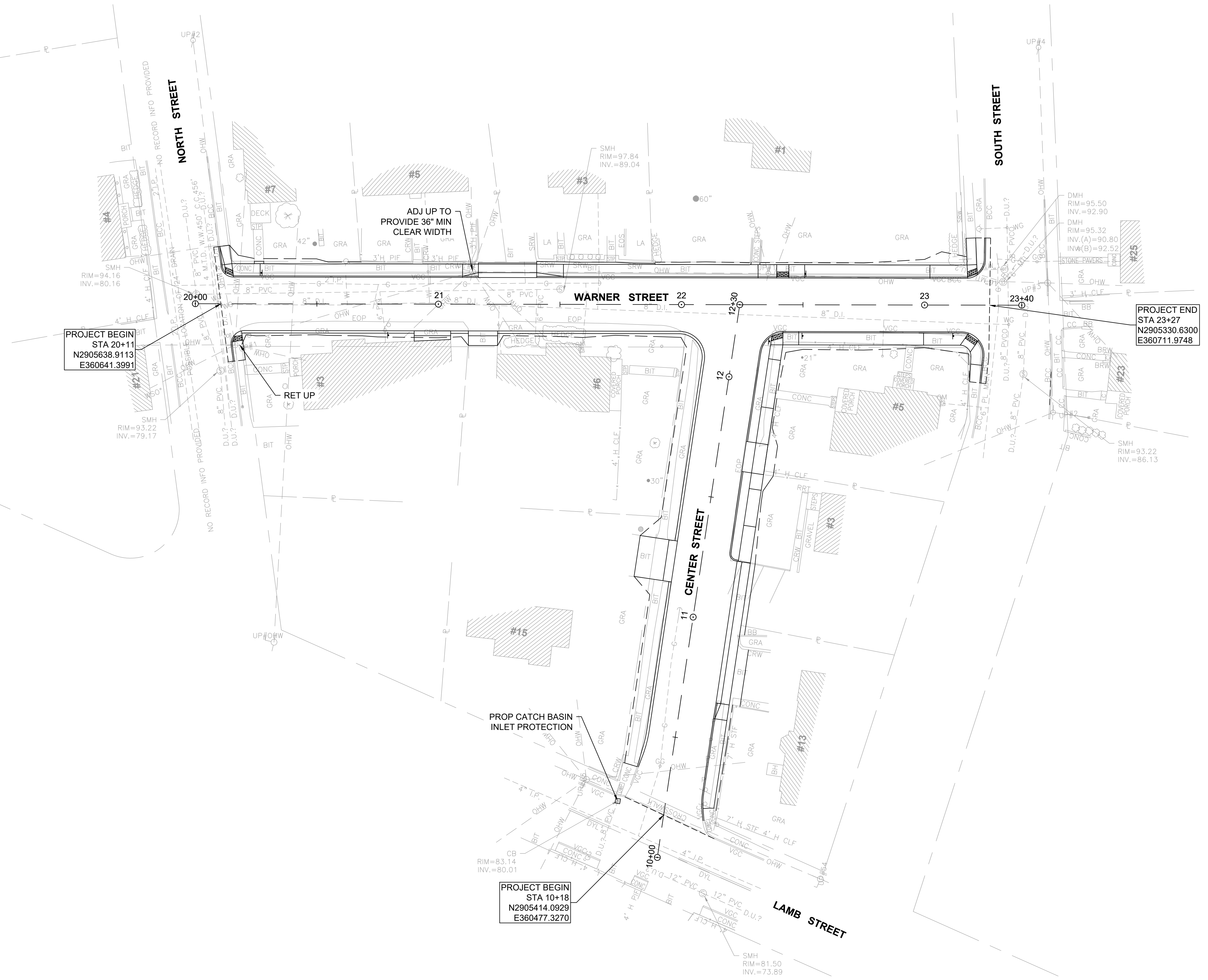
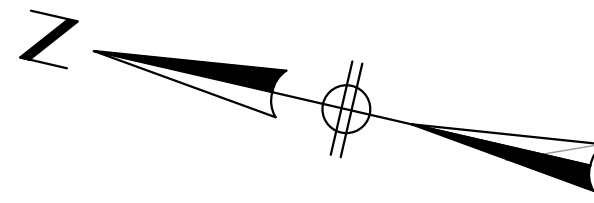
CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS

GRADING PLAN

BETA JOB NO. 10282

ISSUE DATE 6/17/2022

SHEET NO. 13 of 16



PROJECT BEGIN  
STA 20+11  
N2905638.9113  
E360641.3991

PROJECT END  
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N2905330.6300  
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PROJECT BEGIN  
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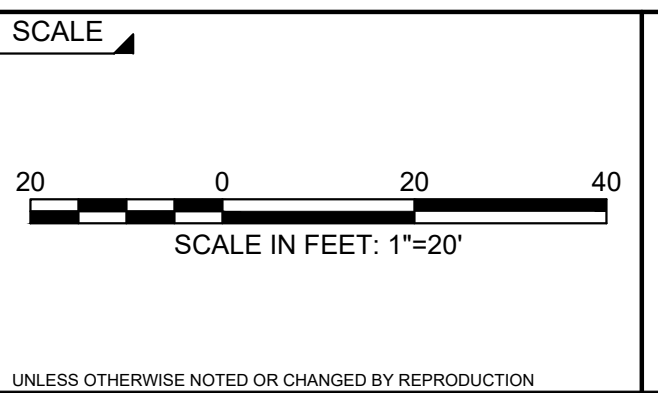
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NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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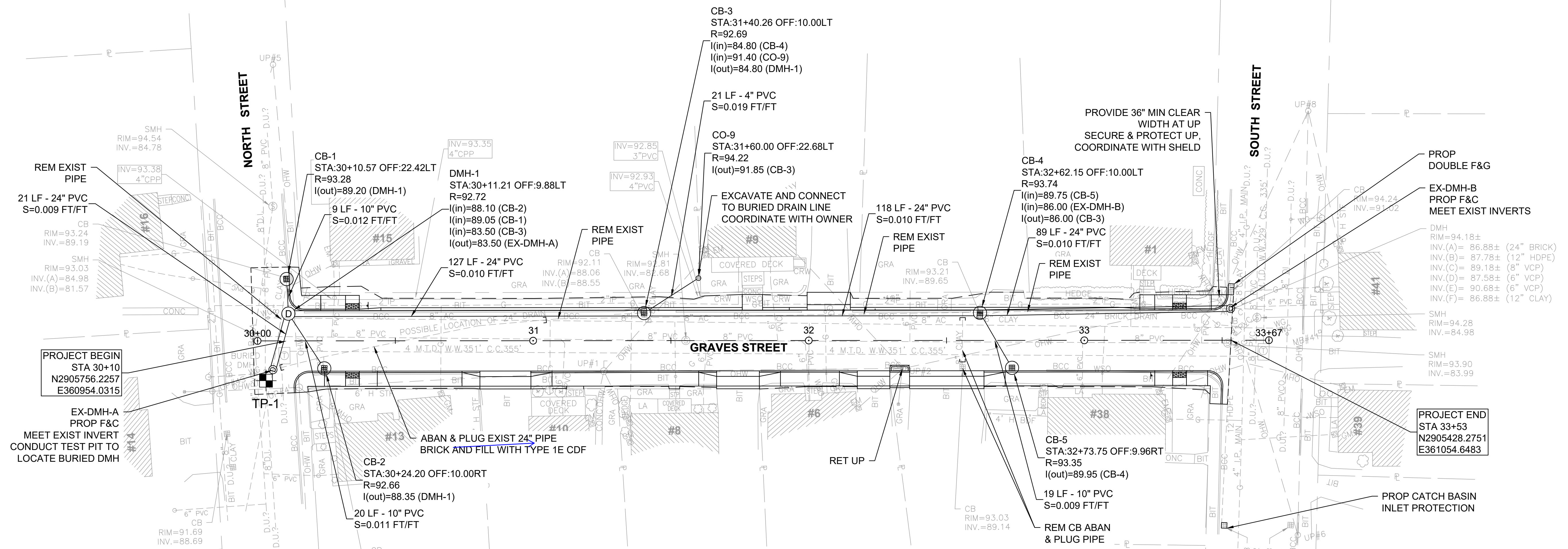
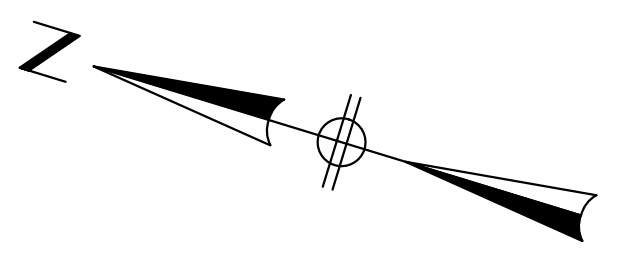
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**CENTER STREET NEIGHBORHOOD  
IMPROVEMENT PROJECT  
SOUTH HADLEY, MASSACHUSETTS**

DRAIN & UTILITY PLAN

BETA JOB NO. 10282  
ISSUE DATE 6/17/2022  
SHEET NO. 14 of 16



PROJECT BEGIN  
STA 30+10  
N2905756.2257  
E360954.0315

PROJECT END  
STA 33+53  
N2905428.2751  
E361054.6483

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-1	30+10.57	22.4 LT	93.28		I=89.20' (DMH-1)	
CB-2	30+24.20	10.0 RT	92.66		I=88.35' (DMH-1)	
CB-3	31+40.26	10.0 LT	92.69	I=84.80' (CB-4) I=91.40' (CO-9)	I=84.80' (DMH-1)	
CB-4	32+62.15	10.0 LT	93.74	I=89.75' (CB-5) I=86.00' (EX-DMH-B)	I=86.00' (CB-3)	
CB-5	32+73.75	10.0 RT	93.35		I=89.95' (CB-4)	
CO-9	31+60	22.7 LT	94.22		I=91.85' (CB-3)	CLEANOUT
DMH-1	30+11.21	9.9 LT	92.72	I=88.10' (CB-2) I=89.05' (CB-1) I=83.50' (CB-3)	I=83.50' (EX-DMH-A)	OUTLET INVERT TO BE DETERMINED IN FIELD
EX-DMH-A	30+05.58	10.4 RT	90.13	I=83.30' (DMH-1)		RET EXIST DMH, PROP F&C FIELD VERIFY EXIST INVERTS
EX-DMH-B	33+53.05	11.5 LT	94.23		I=86.88' (CB-4)	ADJ EXIST DMH, PROP F&C FIELD VERIFY EXIST INVERTS

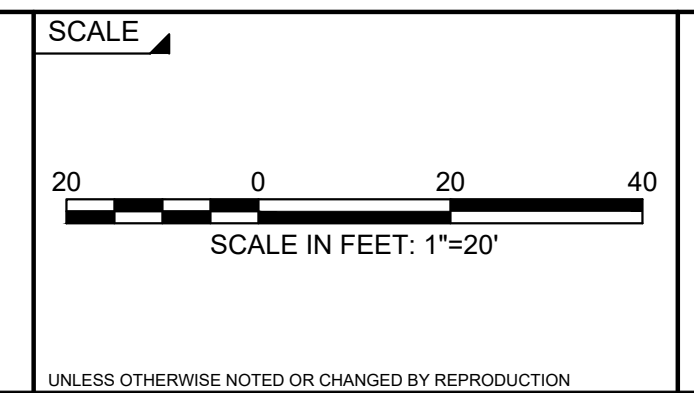
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SB  
CHECKED BY:  
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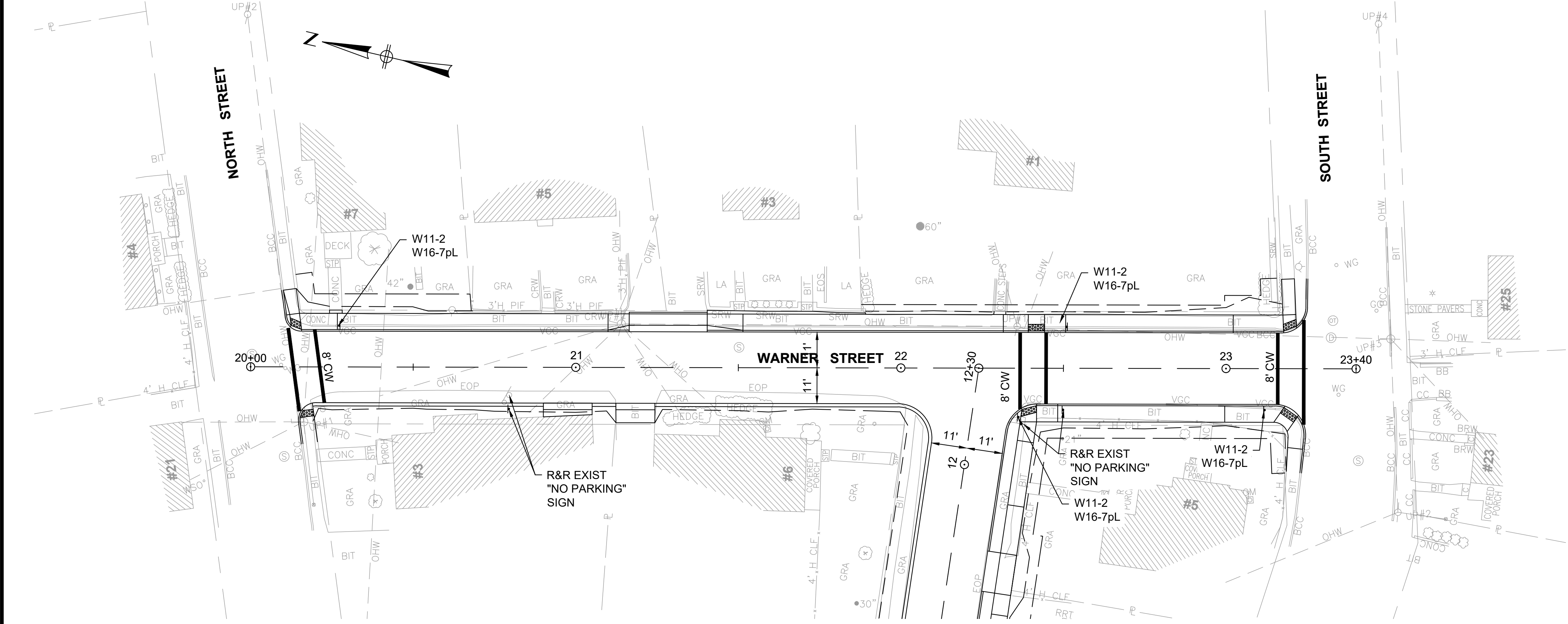
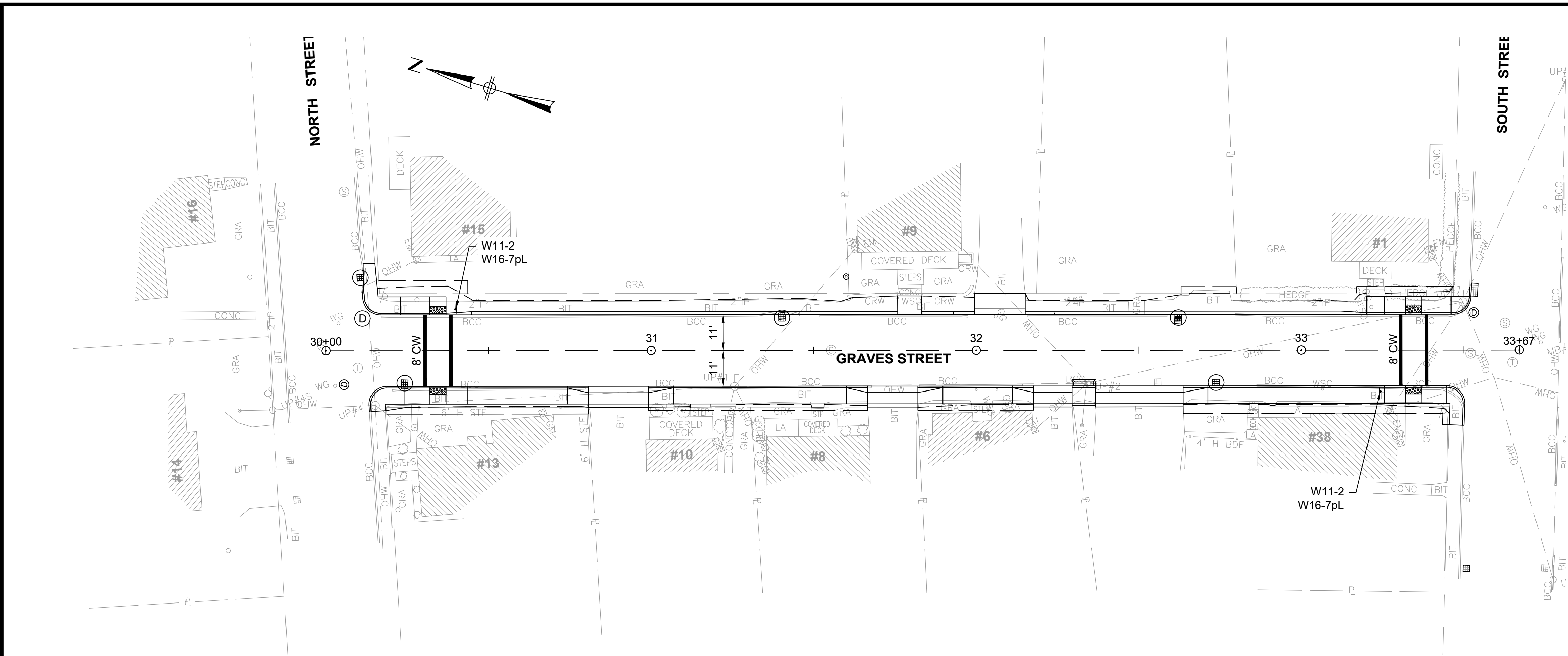
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**CENTER STREET NEIGHBORHOOD IMPROVEMENT PROJECT**  
**SOUTH HADLEY, MASSACHUSETTS**  
DRAIN & UTILITY PLAN

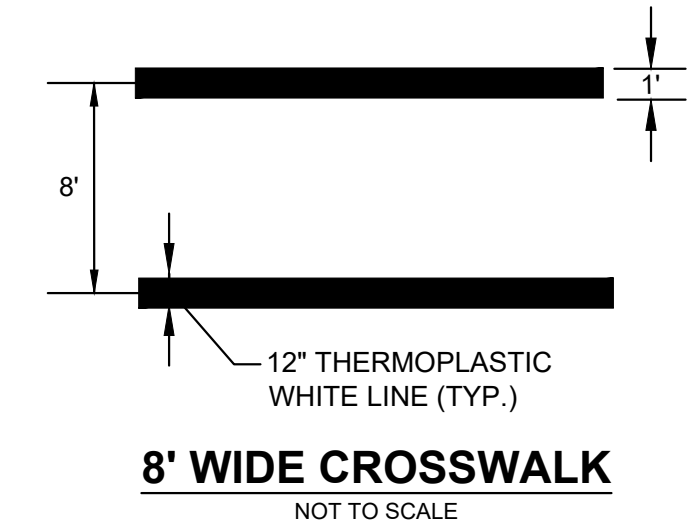
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SHEET NO. 15 of 16

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SIGN ID	SIZE OF SIGN		TEXT	# OF SIGNS	COLOR			POST SIZE AND NUMBER REQUIRED	SIGN AREA	
	WIDTH (IN)	HEIGHT (IN)			BACKGROUND	LEGEND	BORDER		UNIT AREA (SF)	TOTAL AREA (SF)
W11-2	30	30		6	FYG	BLACK	BLACK	P-5 6	6.25	37.5
W16-7pL	24	12		6	FYG	BLACK	BLACK	MOUNT W/ W11-2	2.0	12.0

- SIGN NOTES:**
- HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9:30.0, TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS SHALL BE USED FOR ALL SIGNS.
  - ALL SIGNS, INCLUDING SIGNS TO BE R&R, TO BE ON NEW P-5 POSTS UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY.
  - ALL P-5 POSTS SHALL BE TELESCOPIC, RECTANGULAR TYPE POSTS, CONFORMING TO THE DIMENSIONS AND REQUIREMENTS OF THE MASSDOT'S STANDARD SPECIFICATIONS.
  - FOR CONSTRUCTION AND INSTALLATION REQUIREMENTS OF ALL SIGNS REFER TO MASSDOT STANDARD SPECIFICATIONS.
  - SEE THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" FOR THE LATEST SPECIFICATIONS ON TEXT DIMENSIONS AND COLOR.
  - FYG: FLUORESCENT YELLOW GREEN



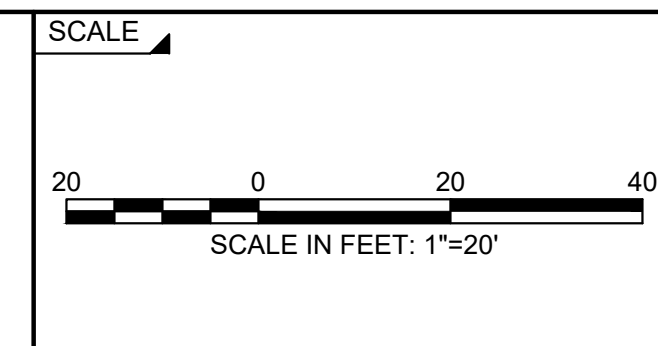
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DESIGNED BY:  
SB

CHECKED BY:  
SD/DM

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**CENTER STREET NEIGHBORHOOD IMPROVEMENT PROJECT**  
**SOUTH HADLEY, MASSACHUSETTS**  
**SIGN & PAVEMENT MARKING PLAN**

BETA JOB NO. 10282

ISSUE DATE 6/17/2022

SHEET NO. 16 of 16