

DIVISION AVENUE IMPROVEMENT PROJECT

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE SUMMIT POLICE DEPARTMENT 72 HOURS PRIOR TO THE START OF ANY WORK AND SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITHIN 30 DAYS OF THE DAY THE PROJECT IS AWARDED TO CONTRACTOR.

2. NO SEPARATE PAYMENT SHALL BE MADE FOR FLAGGERS. ALL COSTS FOR FLAGGERS SHALL BE INCLUDED IN VARIOUS ITEMS IN THE BID PROPOSAL.

3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN DENSE GRADED AGGREGATE OR HOT MIX ASPHALT TO PROVIDE A RIDING SURFACE FOR VEHICLE ACCESS TO EACH PROPERTY. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING ACCESS TO DRIVEWAYS. ALL DRIVEWAY ACCESS COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.

4. THE ROAD IS TO BE PROOF ROLLED AFTER MILLING IS COMPLETED BUT BEFORE FINAL PAVING. PROOF ROLLING MUST BE COMPLETED WITH A LOADED DUMP TRUCK IN THE PRESENCE OF THE ENGINEER OR PROJECT INSPECTOR. ALL COSTS ASSOCIATED WITH PROOF ROLLING SHALL BE INCLUDED IN BID ITEM FOR MILLING.

5. THE CONTRACTOR SHALL LEAVE THE MILLED ROAD UNPAVED FOR AT LEAST 48 HOURS AND SHALL PROOF ROLL PRIOR TO PAVING. THE CONTRACTOR SHALL INSTALL HOT MIX ASPHALT BASE COURSE AS A TEMPORARY SURFACE IN AREAS DEEMED NECESSARY BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY PAVEMENT. ALL TEMPORARY PAVEMENT COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.

6. ALLOWABLE HOURS OF WORK ARE 8:00 AM TO 4:30 PM. THE CONTRACTOR SHALL MAKE PROVISIONS FOR MATERIAL AND EQUIPMENT STORAGE. THE CONTRACTOR SHALL COORDINATE THE STORAGE OF MATERIAL AND EQUIPMENT WITH THE ENGINEER AND THE POLICE DEPARTMENT. ALL COSTS FOR MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE BID ITEM "MOBILIZATION".

7. ALL TRAFFIC CONTROL AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D., AND MUNICIPAL TRAFFIC ORDINANCES. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE POLICE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. TRAFFIC CONTROL PLANS SHALL INCLUDE AT A MINIMUM, THE FOLLOWING SITUATIONS: 1) ROAD CLOSED, 2) LANE CLOSED, SHOULDER CLOSED. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL ON THE PROJECT. ALL REQUESTS FOR POLICE SERVICE FROM THE CITY SHALL BE SUBMITTED 72 HOURS BEFORE BEGINNING CONSTRUCTION OPERATIONS THAT REQUIRE POLICE SERVICES. CONTRACTOR MUST NOTIFY POLICE DEPARTMENT OF CANCELLATIONS 24 HOURS IN ADVANCE OR WILL BE SOLELY RESPONSIBLE FOR A MINIMUM CHARGE OF (4) HOURS. THE CITY OF SUMMIT WILL PAY THE COST OF POLICE SERVICES DIRECTLY TO THE OFFICERS HIRED FOR THE SCHEDULED TIMES.

8. NO HOUSE LEADER DRAINS ARE TO BE INSTALLED UNDER DRIVEWAY APRONS OR THROUGH DROP CURBS. ANY COST ASSOCIATED WITH THE RECONSTRUCTION OR EXTENDING OF EXISTING CURB DAYLIGHTS SHALL BE INCLUDED IN THE BID ITEM FOR "CURB".

9. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL UTILITIES TO RAISE OR LOWER MANHOLES, METERS, VALVES, ETC. TO GRADE AS WORK PROGRESSES. ALL COSTS FOR COORDINATION WITH UTILITY COMPANIES SHALL BE INCLUDED IN THE BID ITEM "UTILITY COORDINATION". THE LOCATIONS OF SUBSURFACE UTILITIES ARE APPROXIMATE AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A MARK OUT OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.

10. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT/RESTORATION OF ANY SIDEWALK, CURB OR PAVEMENT WHICH IS DAMAGED DURING CONSTRUCTION. ALL REPLACEMENT/RESTORATION MUST BE COMPLETED BEFORE ACCEPTANCE OF THE PROJECT BY THE CITY AT NO ADDITIONAL COST.

11. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL TREES WITHIN THE PROJECT DURING CONSTRUCTION, UNLESS OTHERWISE NOTED HEREIN. DAMAGE TO EXISTING TREES WILL BE EVALUATED BY THE CITY FORESTER. THE PROJECT SPECIFICATIONS IMPOSES A PENALTY OF \$500 PER INCIDENT OF DAMAGE TO ANY TREE. ALL COSTS RELATED TO TREE PROTECTION ARE TO BE INCLUDED IN THE BID ITEM "MOBILIZATION". ANY EXISTING TREES WHICH ARE COMPROMISED DURING EXCAVATION FOR CURB INSTALLATION SHALL BE EVALUATED BY THE CITY FORESTER, AND IF DEEMED APPROPRIATE, SHALL BE REMOVED BY THE CONTRACTOR. COST FOR TREE REMOVAL ARE TO BE INCLUDED IN THE BID ITEM "TREE REMOVAL, IF AND WHERE DIRECTED."

12. NO SEPARATE PAYMENT SHALL BE MADE FOR ANY SAW CUTTING REQUIRED ON THE PROJECT. COSTS FOR SAW CUTTING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE BID PROPOSAL.

13. THE CONTRACTOR IS RESPONSIBLE TO REPLACE/RESET ANY SPRINKLERS AND DOG FENCING DAMAGED/DISTURBED DURING CONSTRUCTION. THE COST FOR REPAIR/RESETTING SPRINKLERS AND DOG FENCING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNERS FOR THE LOCATION OF THE SPRINKLERS AND DOG FENCES PRIOR TO THE START OF WORK.

14. ALL COSTS ASSOCIATED WITH THE RESETTING OR REPLACEMENT OF ANY WALKWAYS OR DRIVEWAY APRONS CONSTRUCTED OF GRANITE BLOCK, BRICK, BRICK PAVERS, STONE, SLATE, ETC. SHALL BE INCLUDED IN THE BID ITEM FOR "CONCRETE SIDEWALK". NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION, RECONSTRUCTION OR RESETTING OF CURB ALONG THE SIDES OF A DRIVEWAY LEADING TO THE SIDEWALK WHERE CURBING CURRENTLY EXISTS.

15. NO SEPARATE PAYMENT SHALL BE MADE FOR THE EXCAVATION OF UNCLASSIFIED MATERIAL ASSOCIATED WITH FULL DEPTH REPAIR. ALL COSTS ASSOCIATED WITH THE EXCAVATION, UNCLASSIFIED, AND DISPOSAL OF THE EXISTING SUBBASE AND PLACEMENT OF DENSE GRADED AGGREGATE SHALL BE INCLUDED IN THE BID ITEM "FULL DEPTH REPAIR."

16. NO SEPARATE PAYMENT SHALL BE MADE FOR THE EXCAVATION OF UNCLASSIFIED MATERIAL BEHIND THE CURB. ALL COSTS ASSOCIATED WITH THE REMOVAL OF ANY EXISTING MATERIAL BEHIND THE PROPOSED CURB SHALL BE INCLUDED IN THE BID ITEM "GRANITE BLOCK CURB".

17. NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. ALL COSTS ARE TO BE INCLUDED IN THE BID ITEM "MOBILIZATION". INLET FILTERS SHALL BE INSTALLED AT ALL EXISTING OR NEW CATCH BASINS AND SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED AND THE SURFACE COURSE IS INSTALLED. ALL COSTS ASSOCIATED WITH INLET PROTECTION SHALL BE INCLUDED IN THE BID ITEM "INLET FILTERS, TYPE I."

18. THE CONTRACTOR IS RESPONSIBLE FOR THE STAKEOUT AND LAYOUT OF THE PROJECT. THE STAKEOUT AND LAYOUT IS TO BE PERFORMED BY A NEW JERSEY PROFESSIONAL LAND SURVEYOR. ALL COSTS ASSOCIATED WITH THE STAKEOUT AND LAYOUT OF THE PROJECT ARE TO BE INCLUDED IN THE BID ITEM "CONSTRUCTION LAYOUT". ALL GRADES ARE TO BE SET IN THE FIELD BY THE LAND SURVEYOR. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER A PROFILE WITH THE SET GRADES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROFILE IS SUBJECT TO THE APPROVAL OF THE ENGINEER.

19. SHOP DRAWINGS ARE TO BE SUBMITTED AT A MINIMUM OF THREE (3) WEEKS PRIOR TO CONSTRUCTION FOR ALL PROPOSED DRAINAGE STRUCTURES, SIGNS & POSTS, ANY CONCRETE FOOTINGS. ALL DRAINAGE STRUCTURES AND FOOTINGS MUST BE DESIGNED BY A NEW JERSEY PROFESSIONAL ENGINEER. ALL SHOP DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.

20. SITE SURVEY PROVIDED BY STONEFIELD ENGINEERING & DESIGN [(201) 340-4468].

21. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE IMPROVEMENTS SHOWN SHALL BE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019" AND ALL APPLICABLE AMENDMENTS.

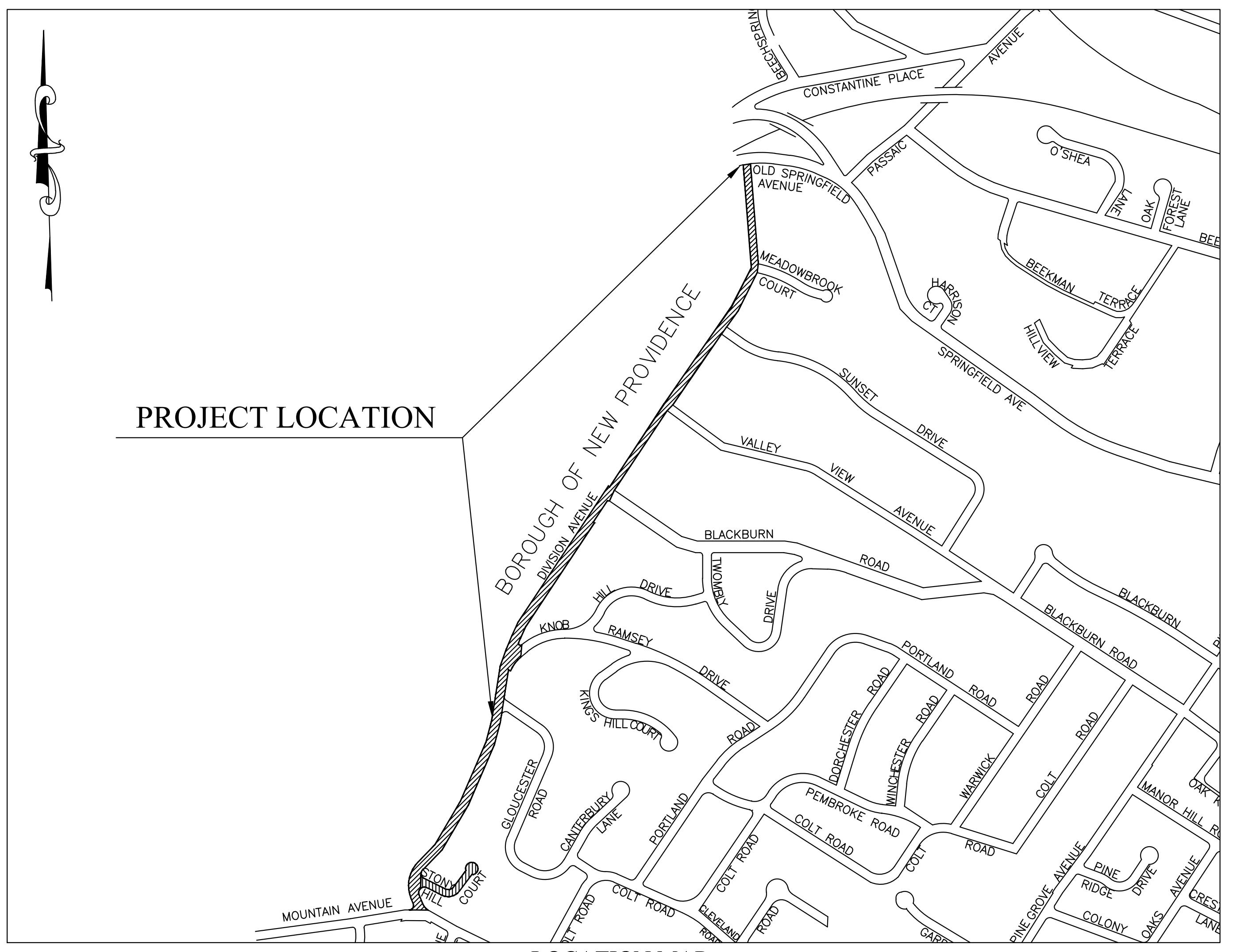
22. ALL REGULATORY, WARNING, AND GUIDE SIGNS, AS WELL AS STREET NAME SIGNAGE, WITHIN PROJECT LIMITS ARE TO BE REPLACED WITH NEW PLAQUES AND POSTS, UNLESS NOTED OTHERWISE.

23. ANY TYPE 'B' OR TYPE 'D' INLETS IDENTIFIED HEREIN FOR RECONSTRUCTION SHALL INCLUDE NEW NEW TYPE 'N' ECO-HEAD CURB PIECE AND BICYCLE SAFE GRATE. ALL COSTS ARE TO BE INCLUDED IN THE BID ITEM FOR RECONSTRUCTED INLET.

24. ANY PROPOSED PAVEMENT THICKNESS NOTED HEREIN SHALL BE POST-COMPACTED, UNLESS OTHERWISE NOTED.

25. ALL PAVEMENT STRIPING & MARKINGS SHALL BE THERMOPLASTIC PER NJDOT STANDARDS.

ENTIRE LENGTH CITY OF SUMMIT UNION COUNTY, NEW JERSEY



LOCATION MAP

N.T.S.

INDEX OF SHEETS

sheet	description
1	COVER SHEET
2-6	CONSTRUCTION PLANS
7-11	SOIL EROSION & SEDIMENT CONTROL PLANS
12	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS
13-14	CONSTRUCTION DETAILS
1 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
2 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
3 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
4 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
5 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
6 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
7 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
8 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
9 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
10 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)
11 OF 11	EXISTING CONDITIONS SURVEY (PROVIDED BY STONEFIELD)



Know what's below.
Call before you dig.

Funding Note:

This project is funded by the City of Summit and a NJDOT Municipal Aid Grant

Survey Note:

The contractor is responsible for stakeout and vertical control of the project. Stakeout is required for the project. AutoCAD drawings are available for this project upon request. Cut sheets shall be submitted prior to the start of any work.

Project Safety Note:

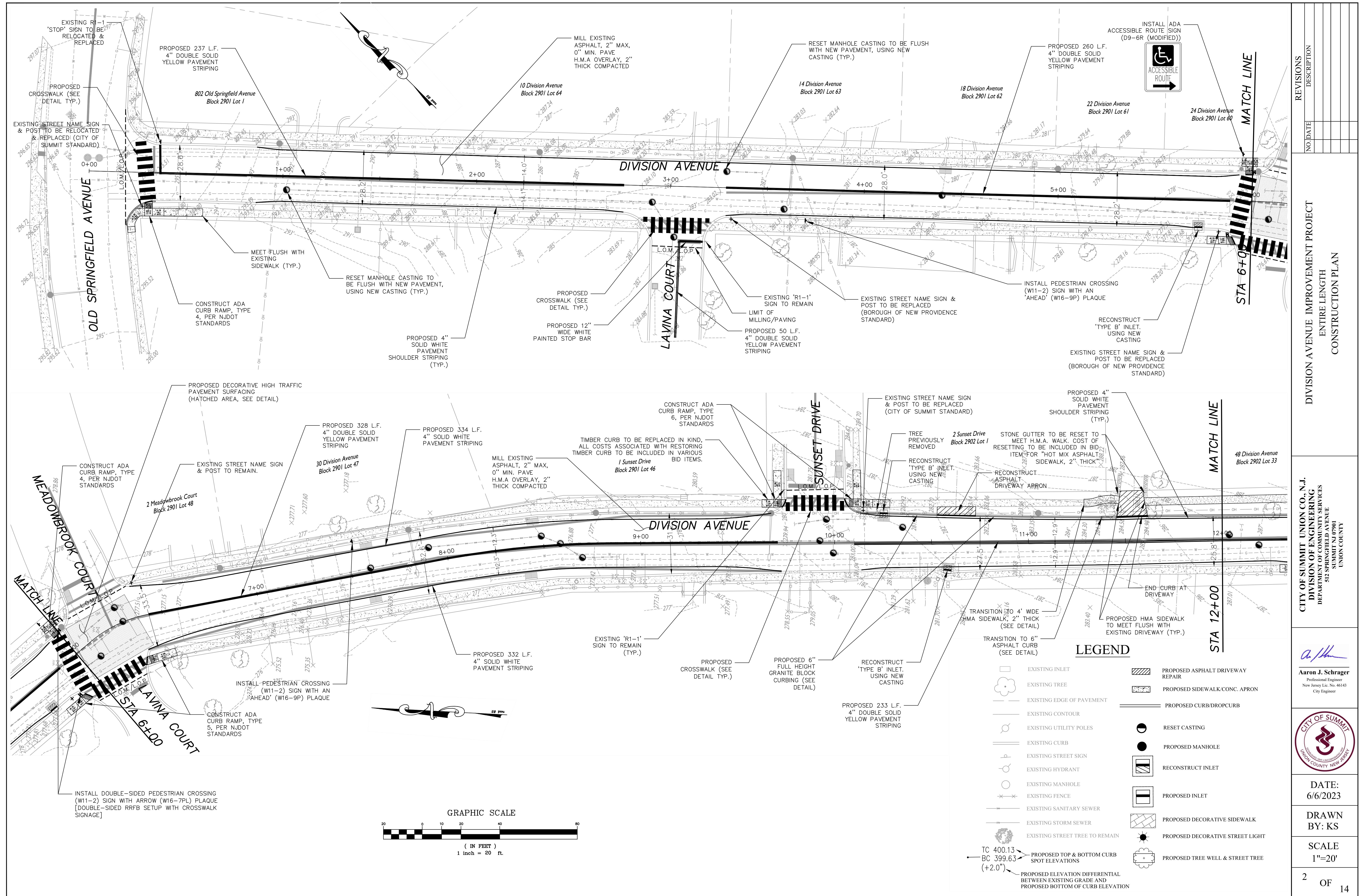
The contractor(s) working on the project are responsible to ensure that all safety regulations of the Occupational Safety and Health Administration (OSHA) and the requirements of the State of New Jersey Department of Labor and Industry shall be adhered to on this project and that he or she shall instruct his or her personnel to follow these regulations. These regulations include, but are not limited to, the regulations concerning Trench Excavation, Competent Persons and Confined Space Regulations.

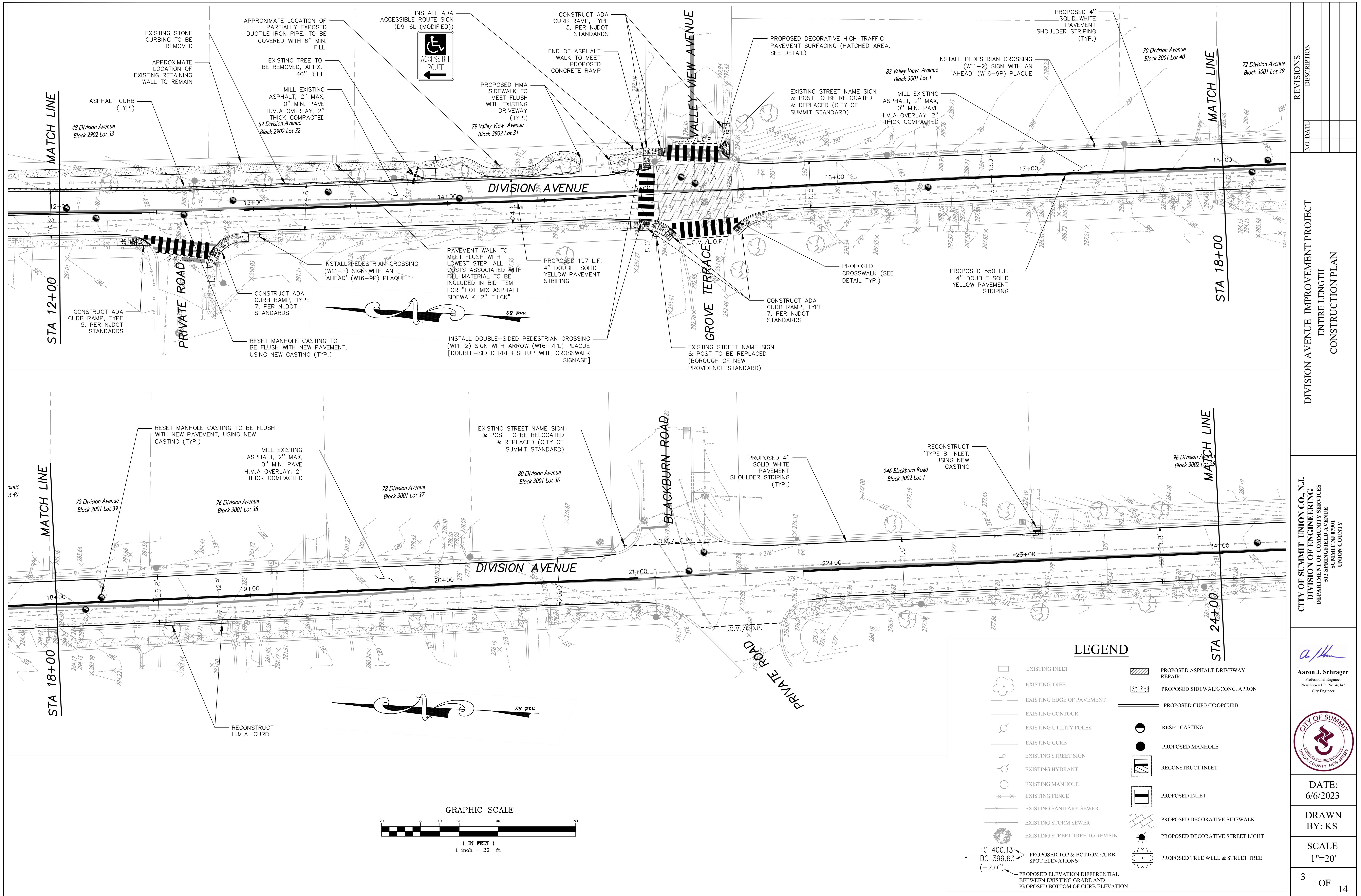
Specifications Note:

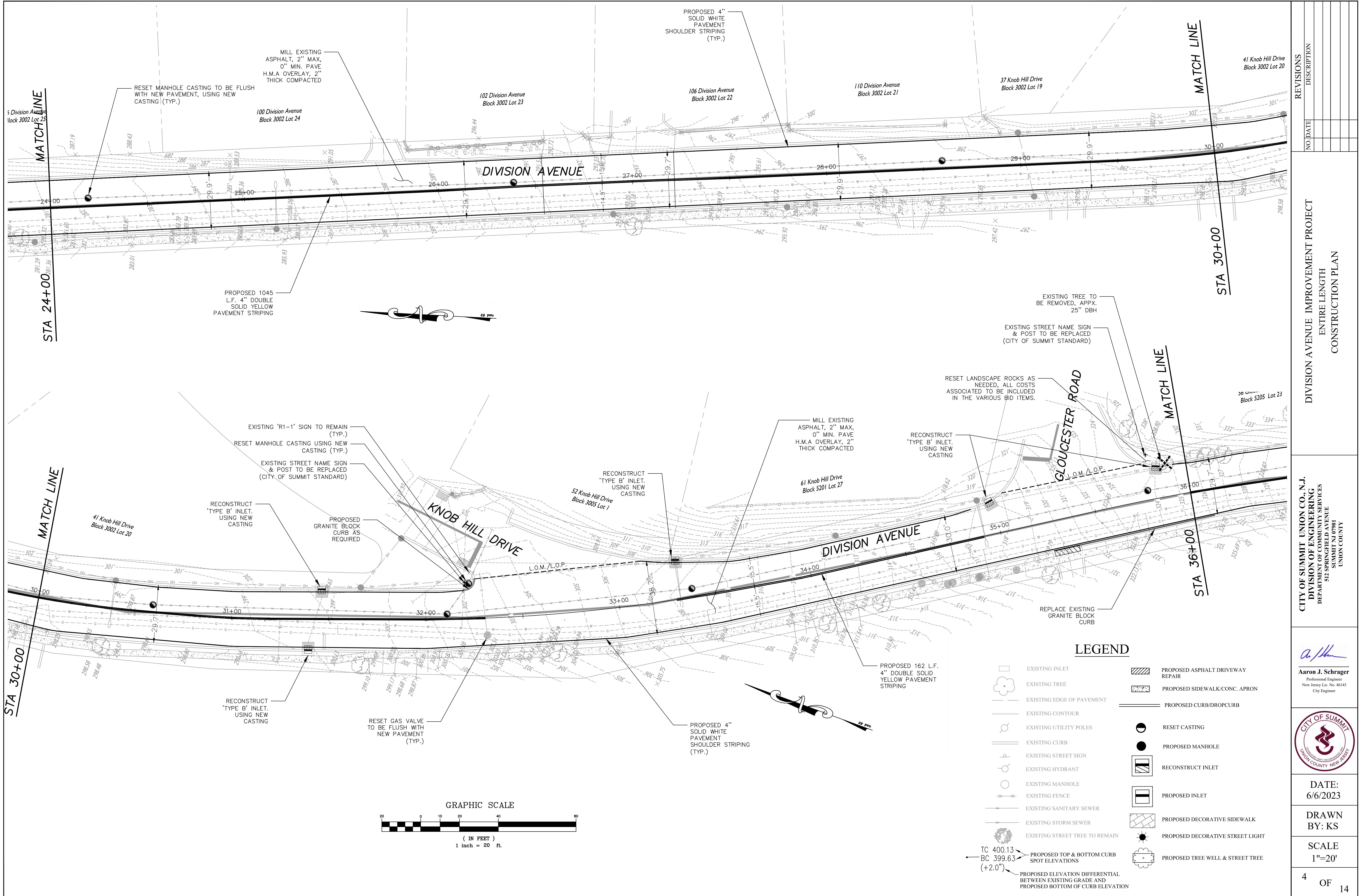
New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019 and all of its amendments and Baseline Document Changes are to govern all construction here in.

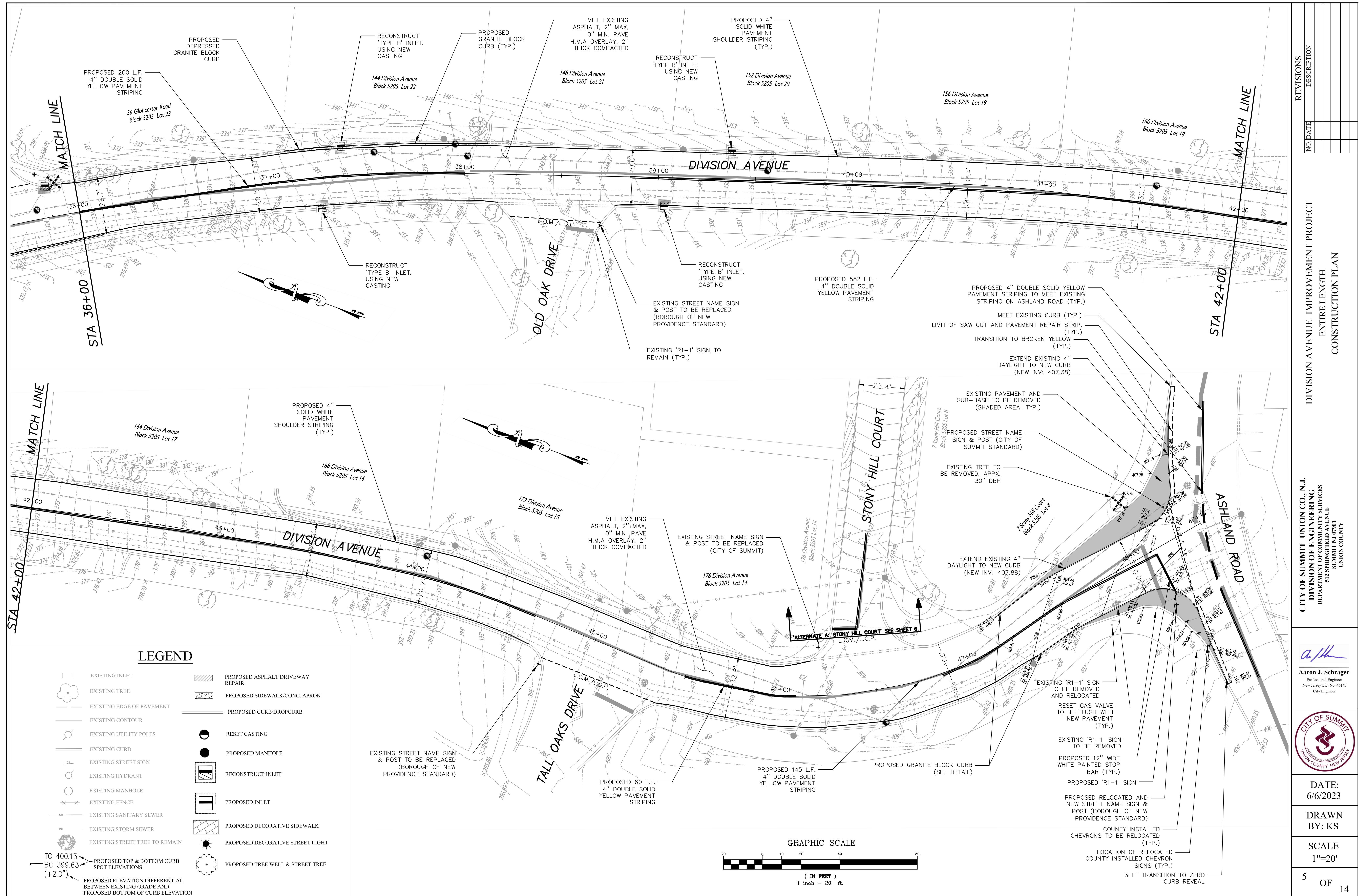
ITEM	DESCRIPTION	UNIT	QTY
GENERAL WORK			
1	MOBILIZATION	LS	1
2	CLEARING SITE	LS	1
3	FINAL CLEANUP	LS	1
4	BREAKAWAY BARRICADE	UNIT	10
5	DRUM	UNIT	30
6	TRAFFIC CONE	UNIT	40
7	CONSTRUCTION SIGNS	SF	300
8	CONSTRUCTION IDENTIFICATION SIGNS, 18" X 36"	UNIT	3
9	CONSTRUCTION LAYOUT	LS	1
10	UTILITY COORDINATION	LS	1
11	INLET FILTERS, TYPE 1	SF	400
12	FUEL PRICE ADJUSTMENT	ALLOW	ALLOW
13	ASPHALT PRICE ADJUSTMENT	ALLOW	ALLOW
ROADWAY, CURBING & ADA			
14	HMA MILLING, 2" OR LESS	SY	15,750
15	TACK COAT	GAL	2,365
16	FULL DEPTH REPAIR	SY	750
17	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK	TON	2,300
18	REMOVAL OF PAVEMENT	SY	160
19	EXCAVATION, TEST PIT	CY	5
20	EXCAVATION, UNCLASSIFIED	CY	50
21	GRANITE BLOCK CURB	LF	800
22	HOT MIX ASPHALT CURB	LF	400
23	HOT MIX ASPHALT SIDEWALK, 4" THICK	SY	160
24	CONCRETE SIDEWALK, 4" THICK	SY	135
25	DETECTABLE WARNING SURFACE	SY	13
26	HOT MIX ASPHALT DRIVEWAY 5" THICK	SY	35
27	TRAFFIC STRIPES, 4" THICK	LF	20,260
UTILITIES			
28	RESET MANHOLE, SANITARY SEWER, USING NEW CASTING	UNIT	43
29	SET MANHOLE CASTING	UNIT	3
30	VIDEO INSPECTION OF SEWER	LF	5,500
31	VIDEO INSPECTION OF PIPE	LF	3,050
32	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	UNIT	13
33	RESET GAS VALVE BOX	UNIT	8
34	RESET WATER VALVE BOX	UNIT	30
35	SEWER REPAIR, IF AND WHERE DIRECTED, 10' LENGTH, 10' DEPTH	UNIT	1
LANDSCAPING			
36	TOPSOIL SPREADING, 4" THICK	SY	715
37	BORROW TOPSOIL	CY	80
38	FERTILIZING AND SEEDING, TYPE A-3	SY	715
39	I-14 SOIL AGGREGATE	CY	20
40	TREE REMOVAL, 6" TO 36" DIAMETER	UNIT	1
41	TREE REMOVAL, OVER 36" DIAMETER	UNIT	1
STREET SIGNS & PARKING METERS			
42	GUIDE SIGN, TYPE GA, BREAKAWAY SUPPORTS	SF	10
43	REGULATORY AND WARNING SIGN	SF	150
44	STREET NAME SIGN & POST	UNIT	14
PEDESTRIAN IMPROVEMENTS			
45	DECORATIVE HIGH TRAFFIC PAVEMENT SURFACING	SY	240
46	RECTANGULAR RAPID FLASHING BEACONS SETUP	UNIT	2
ALTERNATE A: STONY HILL COURT			
A1	HMA MILLING, 2" OR LESS	SY	1,150
A2	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	165
A3	GRANITE BLOCK CURB	LF	25
A4	HOT MIX ASPHALT DRIVEWAY, 5" THICK	SY	4
A5	TRAFFIC STRIPES, 4" THICK	LF	138

REVISIONS	DESCRIPTION
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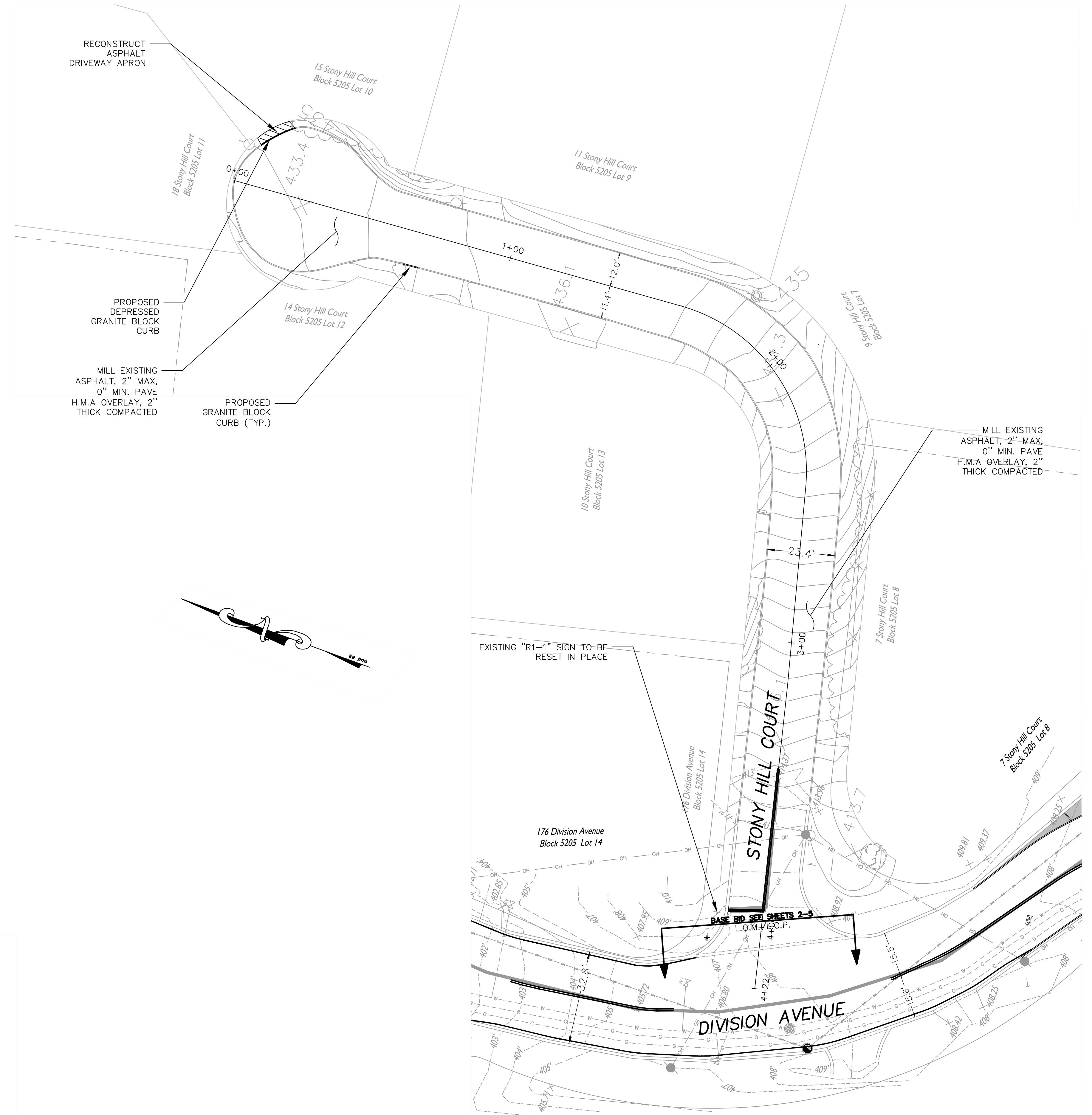






LEGEND

□	EXISTING INLET
▢	PROPOSED ASPHALT DRIVEWAY REPAIR
▢▢▢	PROPOSED SIDEWALK/CONC. APRON
—	PROPOSED CURB/DROPCURB
—	PROPOSED CONTOUR
—	PROPOSED UTILITY POLES
—	PROPOSED CURB
—	PROPOSED STREET SIGN
—	PROPOSED HYDRANT
—	PROPOSED FENCE
—	PROPOSED SANITARY SEWER
—	PROPOSED STORM SEWER
—	PROPOSED STREET TREE TO REMAIN
TC 400.13 BC 399.63 (+2.0")	PROPOSED TOP & BOTTOM CURB SPOT ELEVATIONS
—	PROPOSED ELEVATION DIFFERENTIAL BETWEEN EXISTING GRADE AND PROPOSED BOTTOM OF CURB ELEVATION



CITY OF SUMMIT UNION CO., N.J.
DIVISION OF ENGINEERING
DEPARTMENT OF COMMUNITY SERVICES
512 SPRINGFIELD AVENUE
SUMMIT NJ 07901
UNION COUNTY

Aaron J. Schrager
Aaron J. Schrager
Professional Engineer
New Jersey Lic. No. 46143
City Engineer



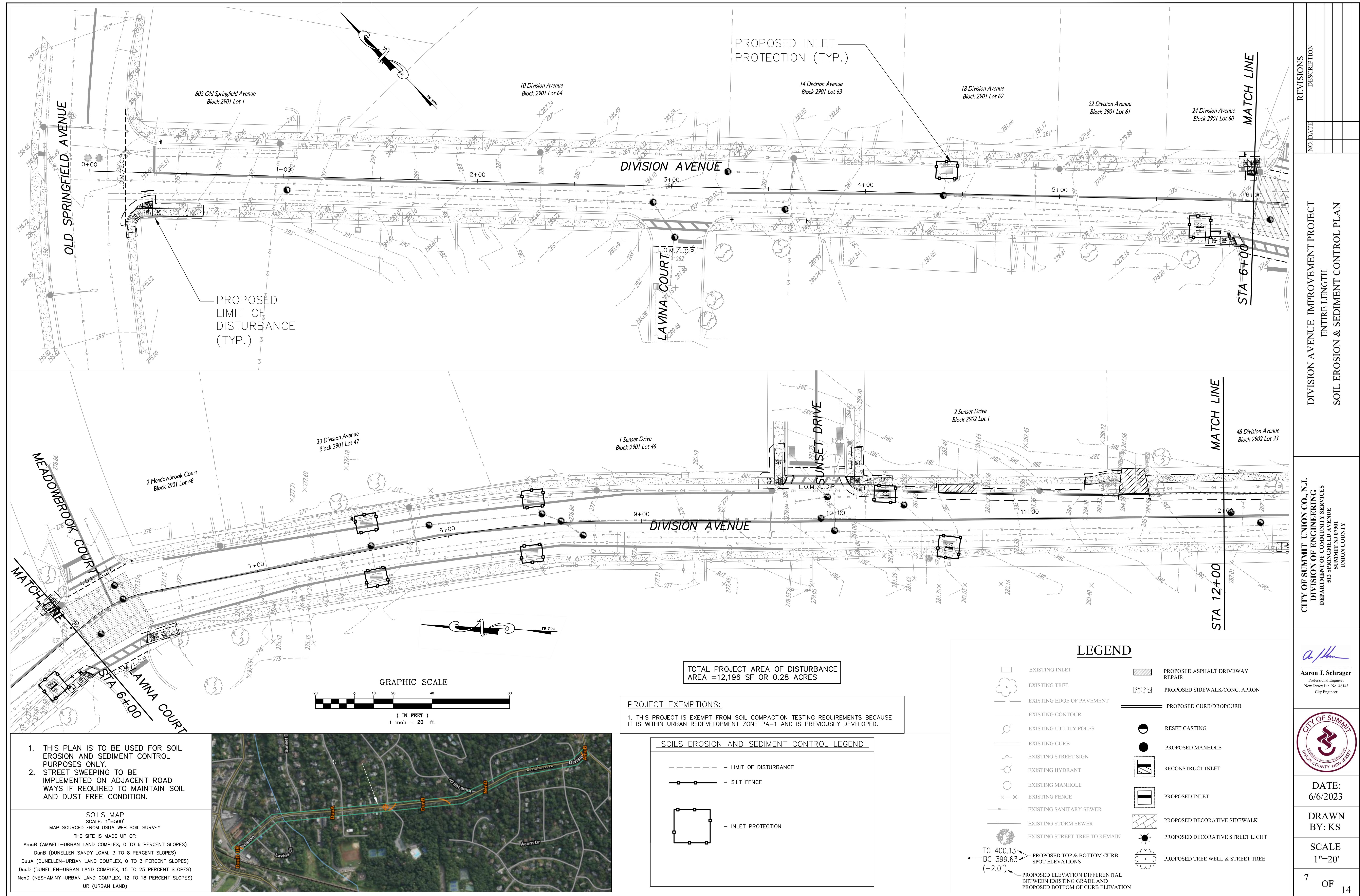
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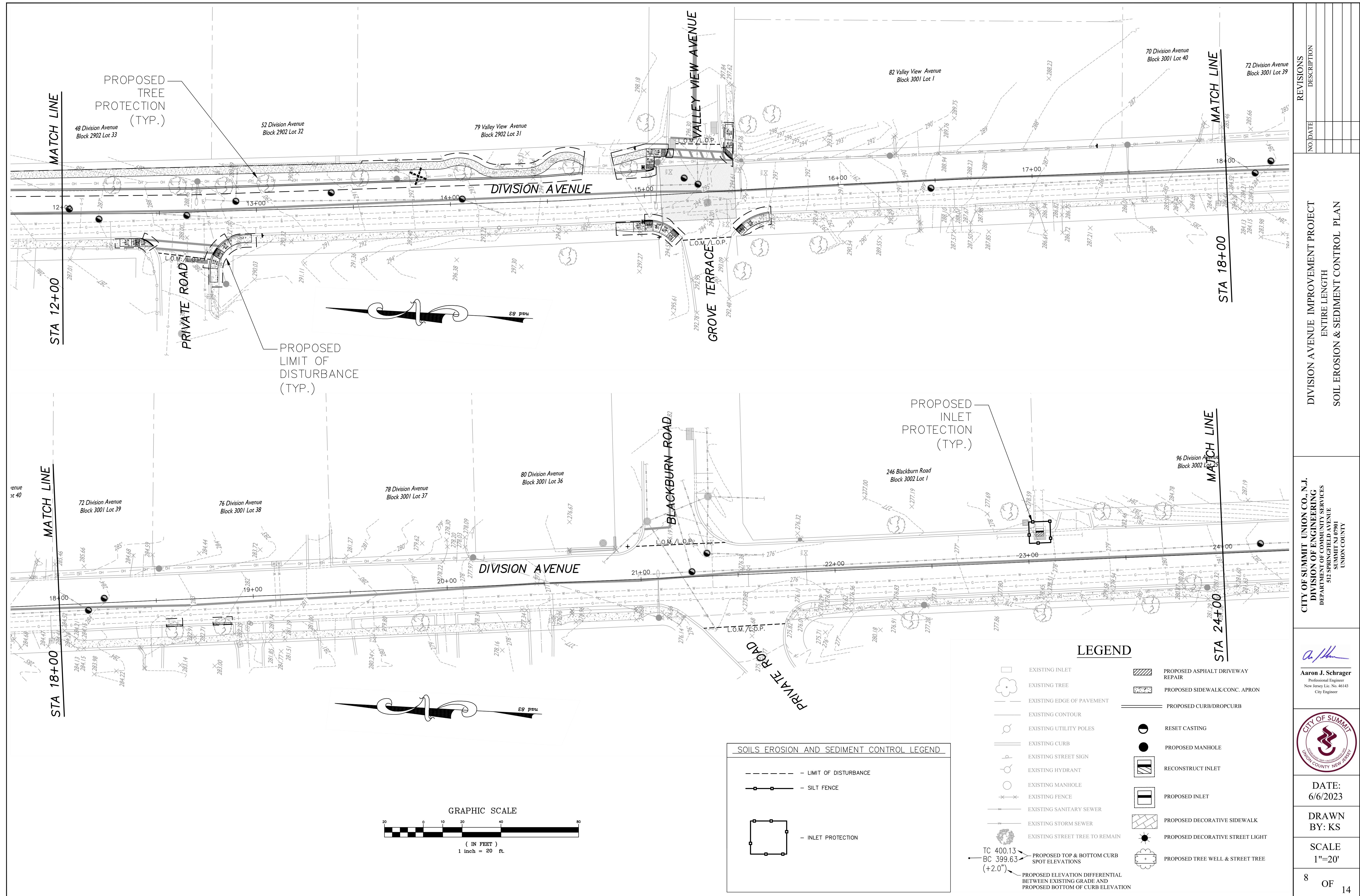
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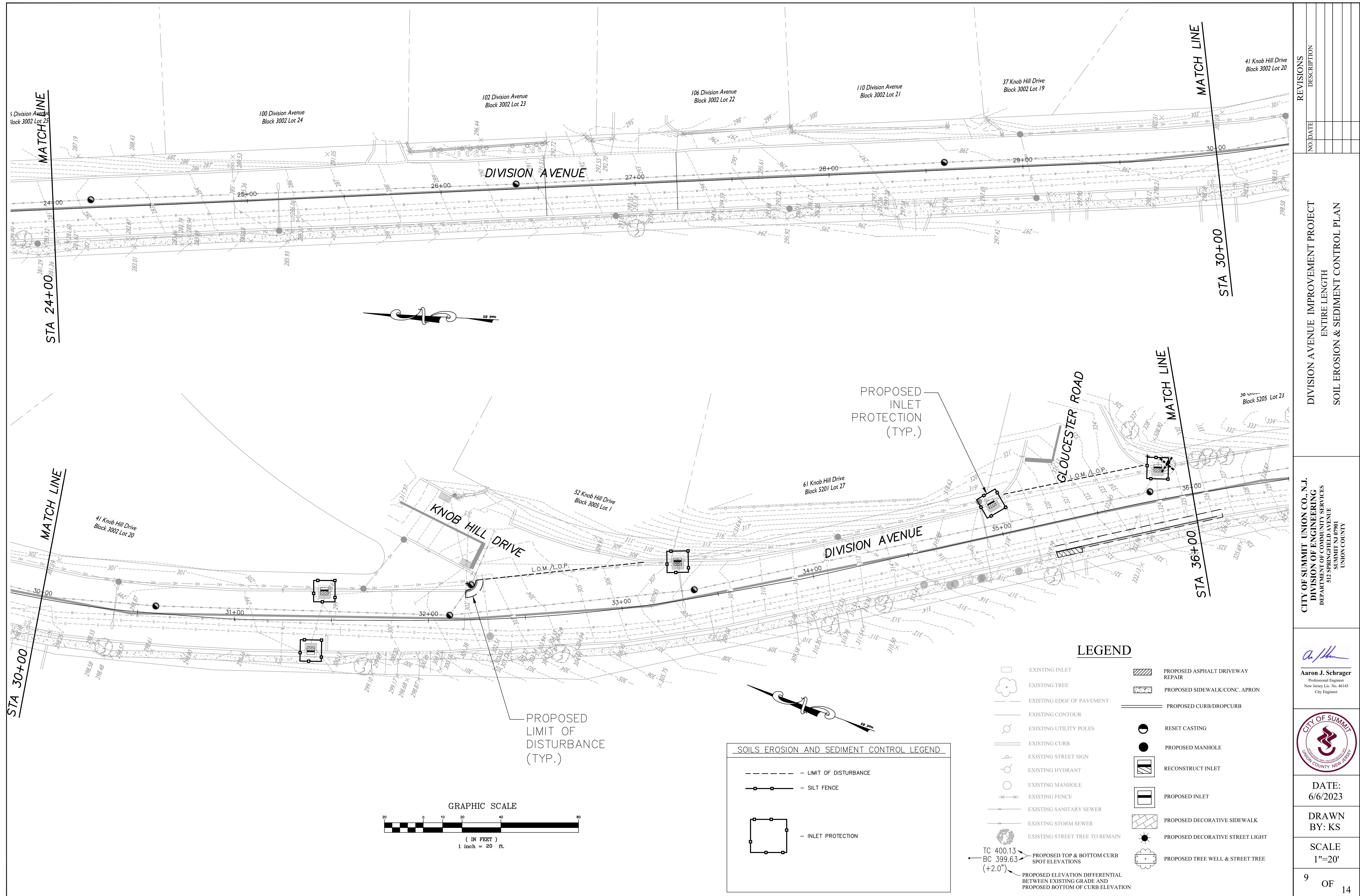
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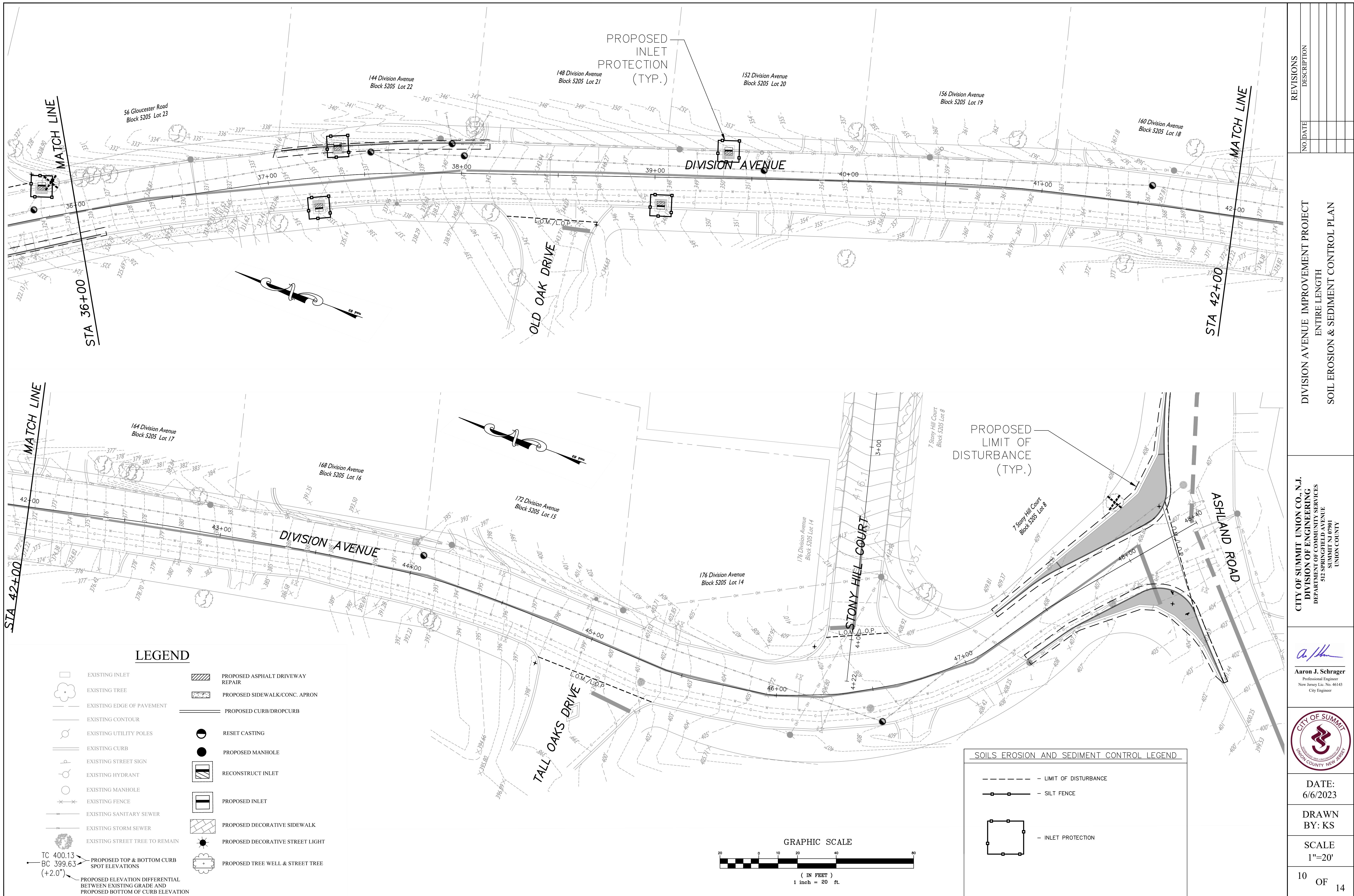
DIVISION AVENUE IMPROVEMENT PROJECT
ENTIRE LENGTH
CONSTRUCTION PLAN
ALTERNATE 'A' : STONY HILL COURT

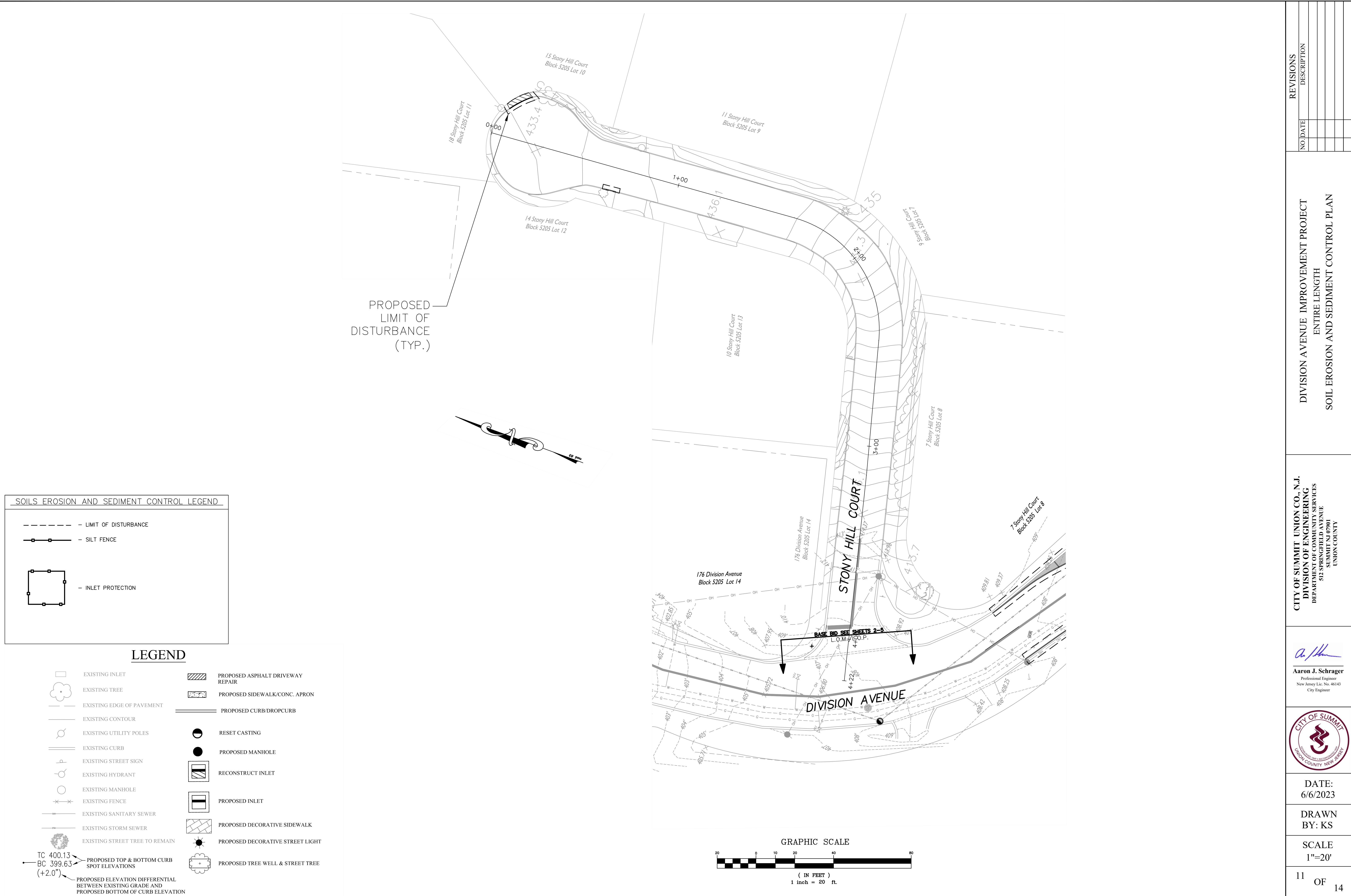
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DIVISION A AVENUE IMPROVEMENT PROJECT

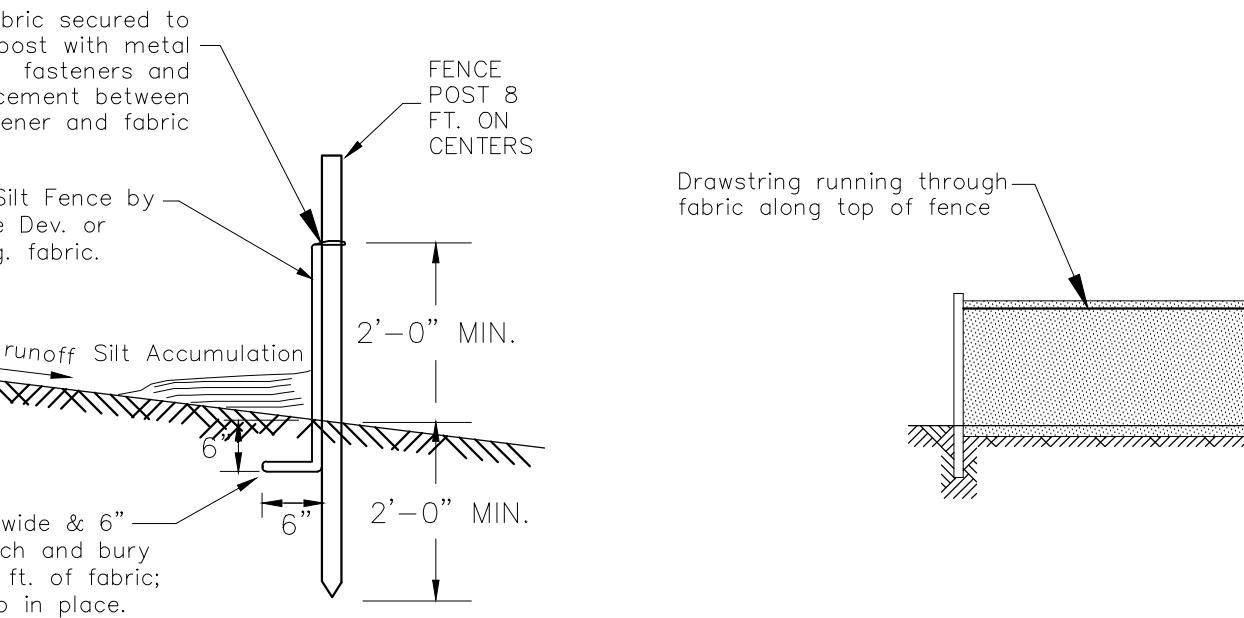
ENTIRE LENGTH

SOIL EROSION & SEDIMENT CONTROL DETAILS

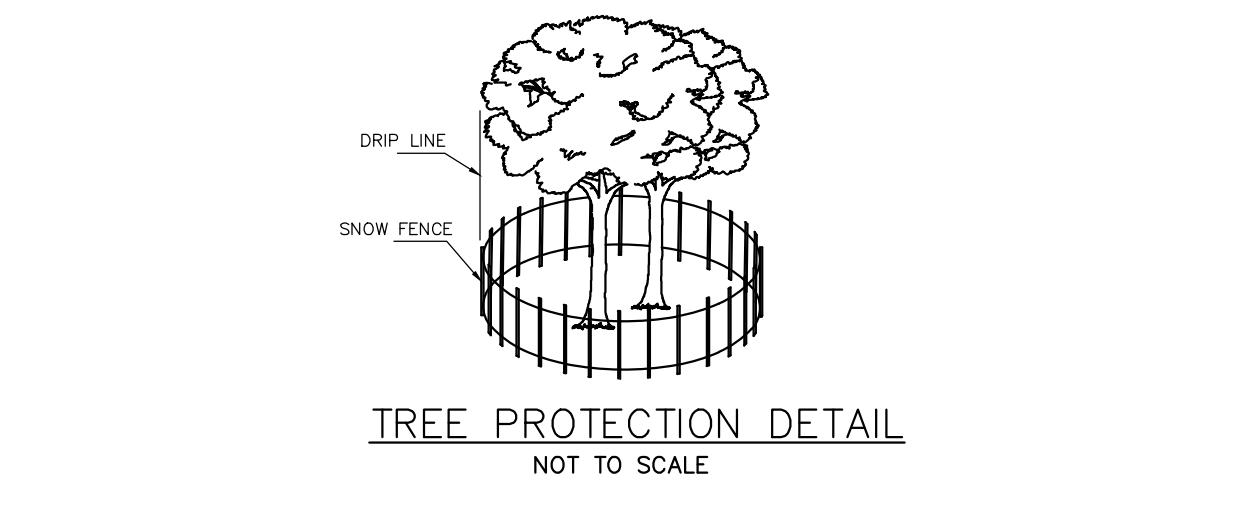
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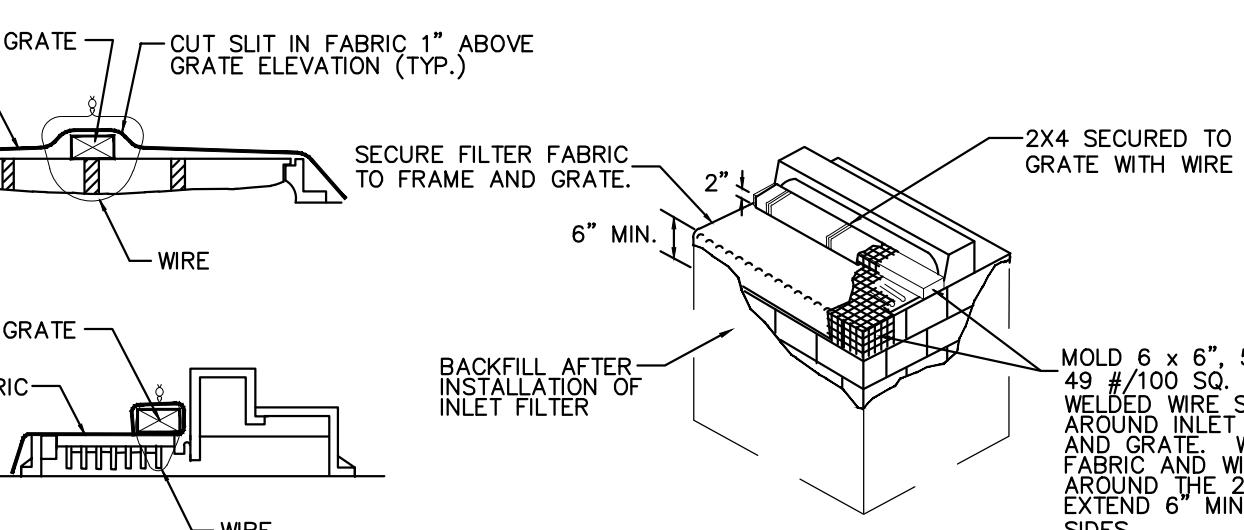
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SILT FENCE DETAIL
NTS



TREE PROTECTION DETAIL
NOT TO SCALE



NOTE: TWO TRAFFIC CONES TO BE PLACED ON EACH SIDE OF INLET

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE GRATE AND MESH JUST PRIOR TO PAVING.
3. IF BOTTOM OF ROADWAY IS BELOW TOP OF INLET GRATE, CONSTRUCT PROPERLY FILTERED OPENINGS IN INLET WALL TO ALLOW PASSAGE OF WATER.
4. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

INLET FILTER DETAIL
N.T.S.

STANDARD FOR DUST CONTROL
DEFINITION

The control of dust on construction sites and roads.

PURPOSE

To prevent blowing and movement of dust from exposed soil surfaces, reduced on-site and off-site damage and health hazards and improve traffic safety.

CONDITION WHERE PRACTICE APPLIES

This practice is applicable to areas subject to dust blowing and movement where on-site and off-site damage is likely without treatment. Consult with local municipal ordinances on any restrictions.

WATER QUALITY ENHANCEMENT

Sediments deposited as 'dust' are often fine colloidal material which is extremely difficult to remove from water once it becomes suspended. Use of this standard will help to control the generation of dust from construction sites and subsequent blowing and deposition into local surface water resources.

PLANNING CRITERIA

The following methods should be considered for controlling dust:

Mulches – Mulches are often fine colloidal material which is extremely difficult to remove from water once it becomes suspended. Use of this standard will help to control the generation of dust from construction sites and subsequent blowing and deposition into local surface water resources.

DEFINITION

Since soil organic matter content and slow release nitrogen fertilizer (water insoluble) are prescribed in Soil Conservation Standard Preparation in this Standard, no follow-up of topdressing is mandatory. An exception may be made where gross nitrogen deficiency exists in the soil to the extent that turf failure may develop. In that instance, topdress with 10-10-10 or equivalent at 300 pounds per acre or 7 pounds per 1,000 square feet every 3 to 5 weeks until the gross nitrogen deficiency in the turf is eliminated.

PURPOSE

To permanently stabilize the soil, assuring conservation of soil and water, and to enhance the environment.

WATER QUALITY ENHANCEMENT

Slows the over land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

WHERE APPLICABLE

On exposed soils that have the potential for causing off-site environmental damage.

SITE PREPARATION

A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standard for Land Grading.

B. Immediately prior to seeding and topsoil application, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading.

C. Topsoil shall be handled only when it is dry enough to work without damaging the soil structure. A uniform application to a depth of 5 inches (unsettled) is required on all sites. Topsoil shall be amended with organic matter, as needed, in accordance with the Standard for Topsowing.

D. Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.

SEEDBED PREPARATION

A. Apply ground limestone and fertilizer to topsoil which has been spread and firm, according to soil test recommendations such as offered by Rutgers Cooperative Extension Soil sample mafers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seeded preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.

B. Work lime and fertilizer into the topsoil as nearly as practical to a depth of 4 inches with disc, spring-tooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.

C. High acid producing soils. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See Standard for Management of High Acid Producing Soils for specific requirements.

D. Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1.

METHODS AND MATERIALS

SITE PREPARATION

A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading, pg. 19-1.

B. Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42.

C. Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).

SEEDBED PREPARATION

A. Apply ground limestone and fertilizer according to soil test recommendations such as offered by Rutgers Cooperative Extension. Soil sample mafers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise. Application of the rate of 2 to 3 times the standard rate indicates otherwise. Calcium carbonate is the equivalent end standard for measuring the ability of liming materials to neutralize soil acidity and supply calcium and magnesium to grasses and legumes.

B. Work lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, spring-tooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.

C. Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retilled in accordance with the above.

D. Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1.

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

DEFINITION

Establishment of temporary vegetative cover on soils exposed for periods of two to 6 months which are not being graded, not under active construction or not scheduled for permanent seeding within 60 days.

PURPOSE

To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.

WATER QUALITY ENHANCEMENT

Provides temporary protection against the impacts of wind and rain, slows the over land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

WHERE APPLICABLE

On exposed soils that have the potential for causing off-site environmental damage.

SITE PREPARATION

A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standard for Land Grading.

B. Immediately prior to seeding and topsoil application, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading.

C. Topsoil shall be handled only when it is dry enough to work without damaging the soil structure. A uniform application to a depth of 5 inches (unsettled) is required on all sites. Topsoil shall be amended with organic matter, as needed, in accordance with the Standard for Topsowing.

D. Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.

SEEDBED PREPARATION

A. Apply ground limestone and fertilizer to topsoil which has been spread and firm, according to soil test recommendations such as offered by Rutgers Cooperative Extension.

Soil sample mafers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seeded preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.

B. Work lime and fertilizer into the topsoil as nearly as practical to a depth of 4 inches with disc, spring-tooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.

C. High acid producing soils. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See Standard for Management of High Acid Producing Soils for specific requirements.

D. Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1.

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

DEFINITION

Establishment of permanent vegetative cover on exposed soils where permanent vegetation is needed for long term protection.

PURPOSE

To permanently stabilize the soil, assuring conservation of soil and water, and to enhance the environment.

WATER QUALITY ENHANCEMENT

Slows the over land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

WHERE APPLICABLE

On exposed soils that have the potential for causing off-site environmental damage.

SITE PREPARATION

A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standard for Land Grading.

B. Immediately prior to seeding and topsoil application, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading.

C. Topsoil shall be handled only when it is dry enough to work without damaging the soil structure. A uniform application to a depth of 5 inches (unsettled) is required on all sites. Topsoil shall be amended with organic matter, as needed, in accordance with the Standard for Topsowing.

D. Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.

SEEDBED PREPARATION

A. Apply ground limestone and fertilizer to topsoil which has been spread and firm, according to soil test recommendations such as offered by Rutgers Cooperative Extension.

Soil sample mafers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seeded preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.

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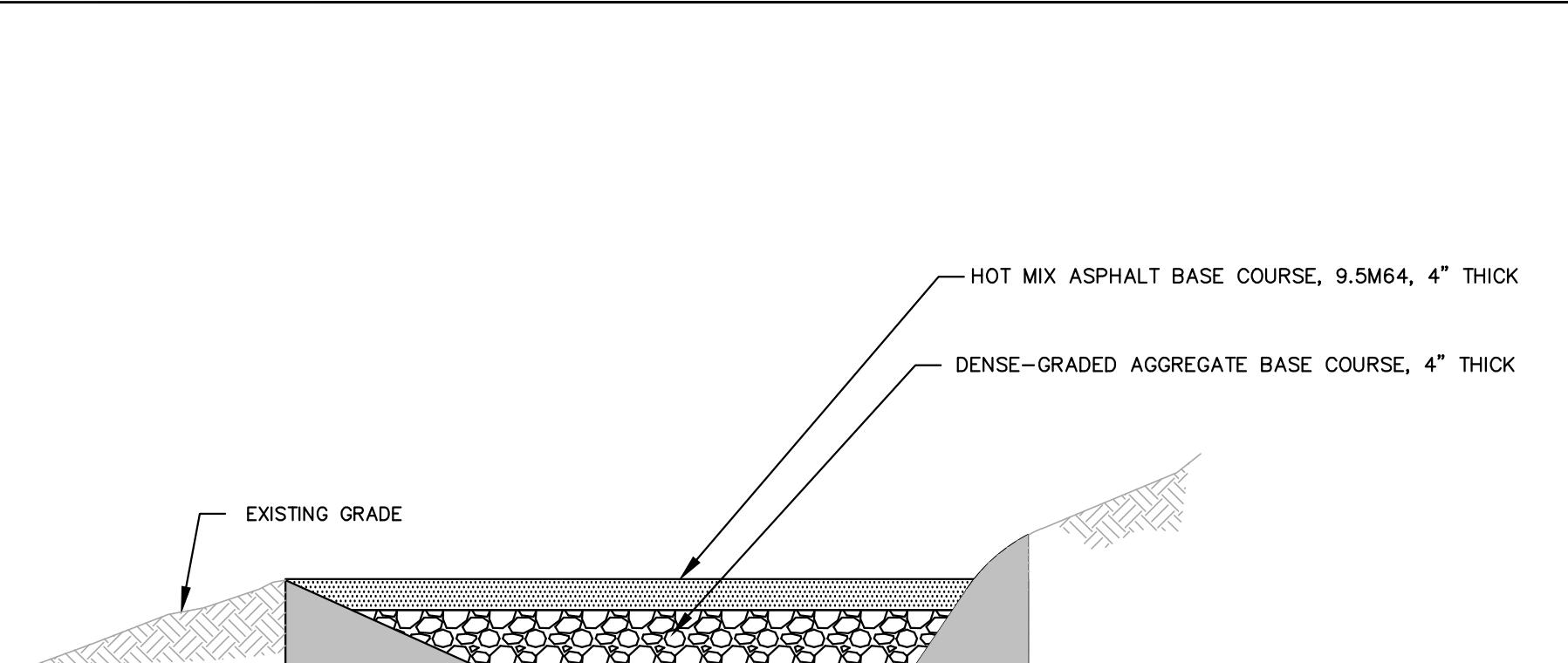
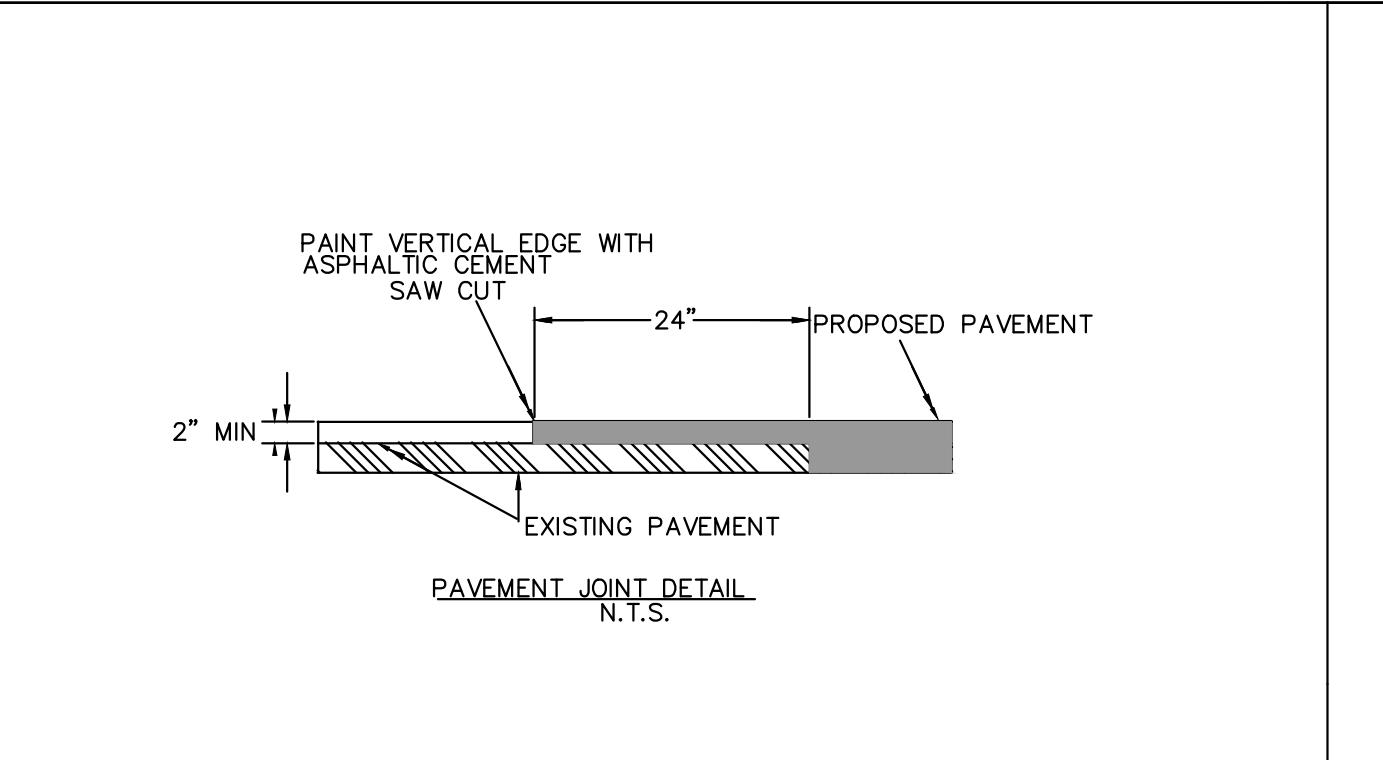
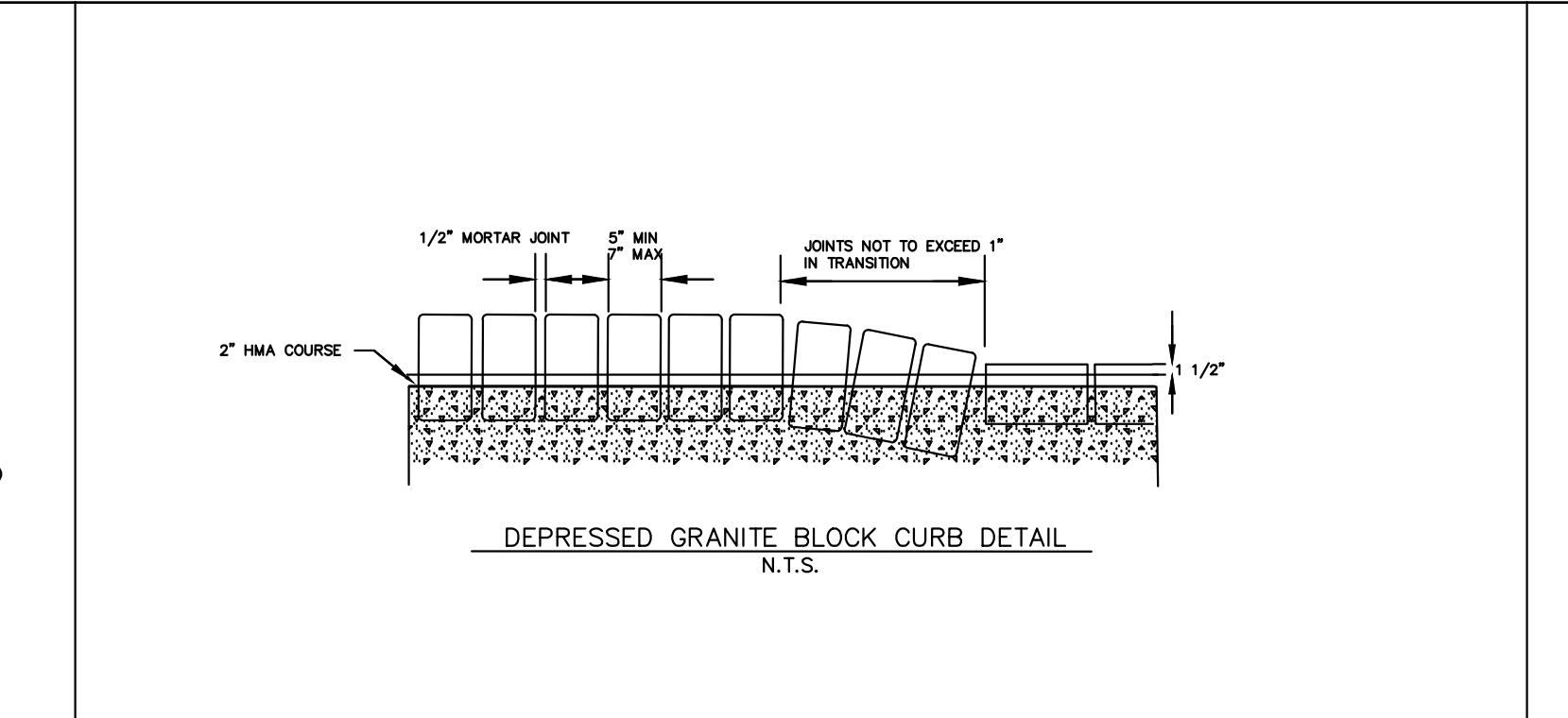
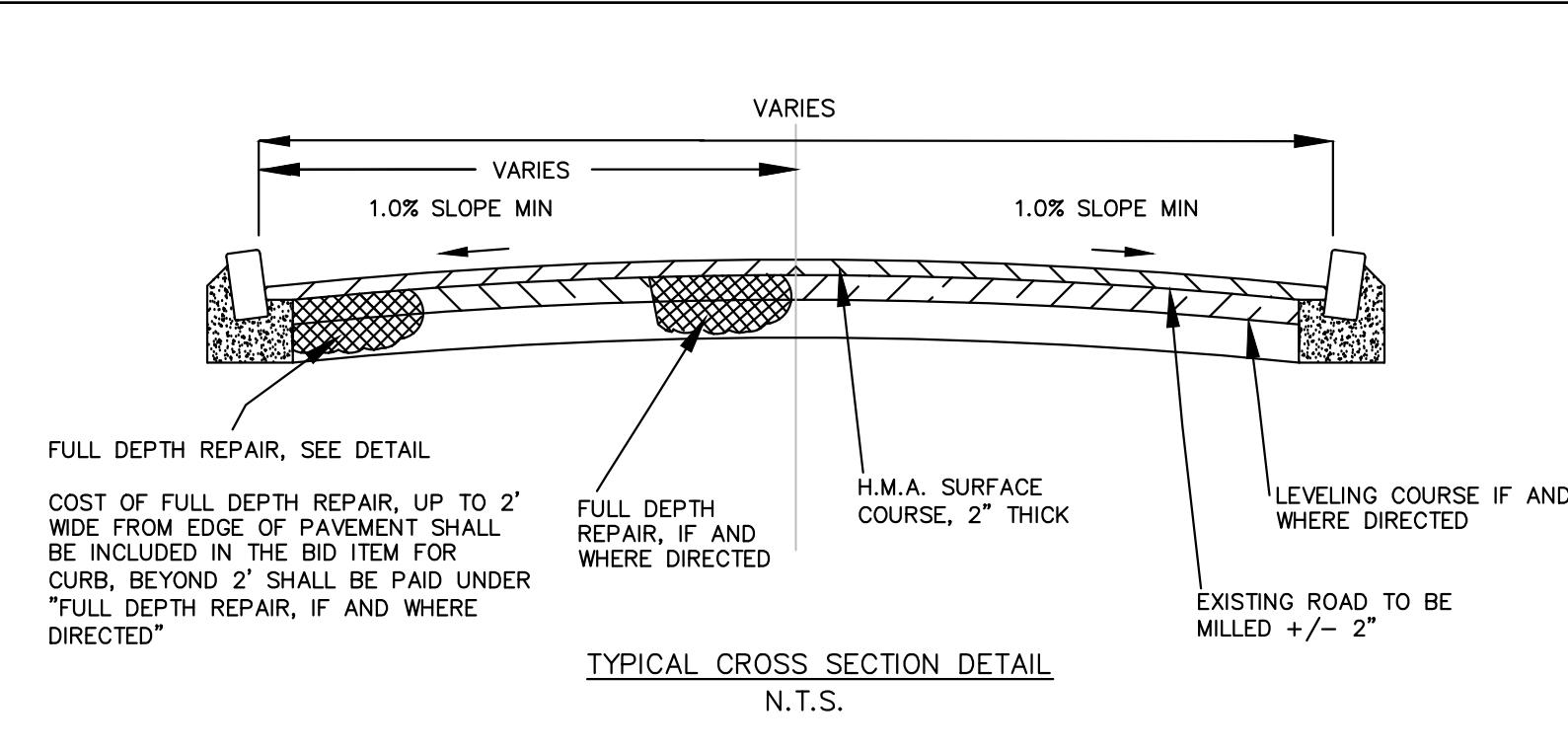
DIVISION AVENUE IMPROVEMENT PROJECT
ENTIRE LENGTH
CONSTRUCTION DETAILS

CITY OF SUMMIT UNION CO., N.J.
DIVISION OF ENGINEERING
DEPARTMENT OF COMMUNITY SERVICES
512 SPRINGFIELD AVENUE
SUMMIT, NJ 07901
UNION COUNTY

a/hs
Aaron J. Schrager
Professional Engineer
New Jersey Lic. No. 46143
City Engineer

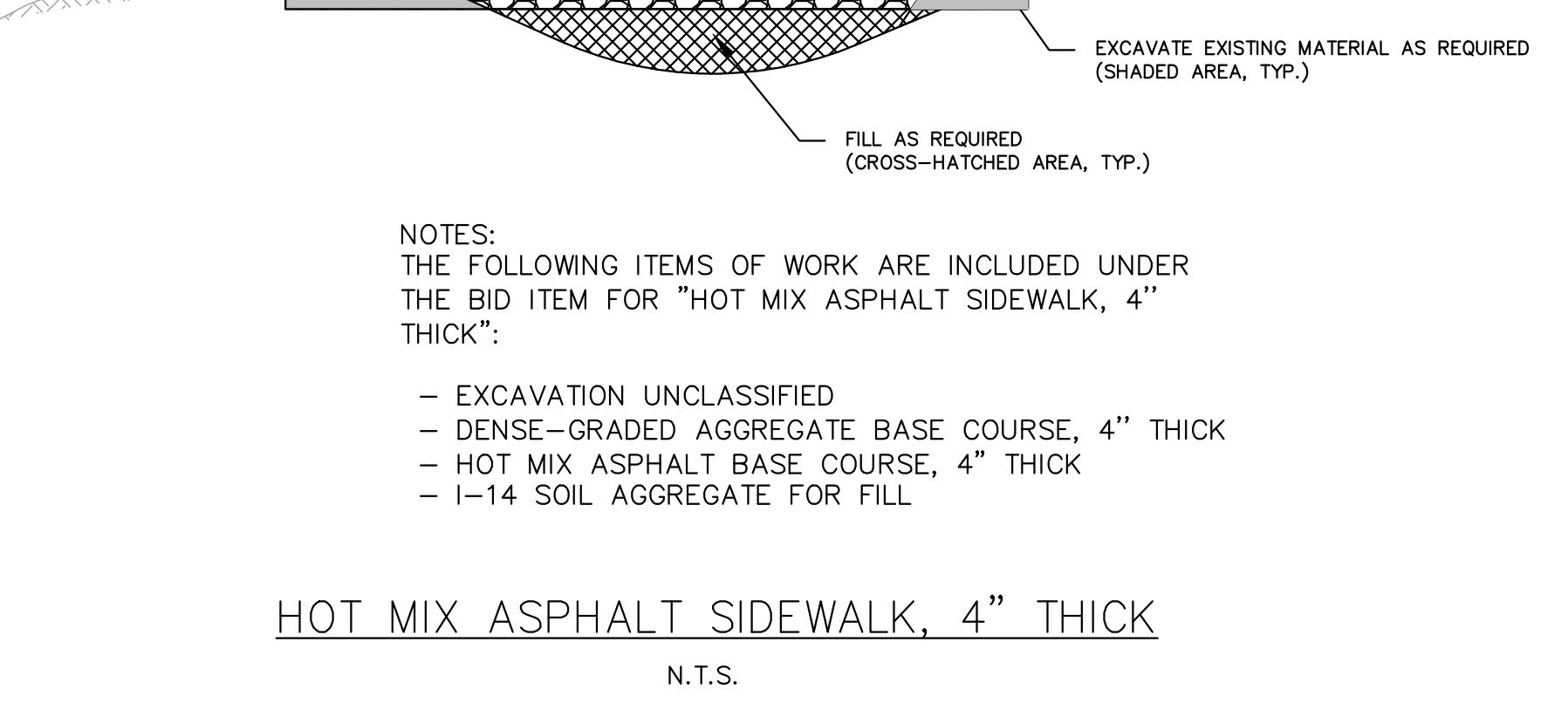
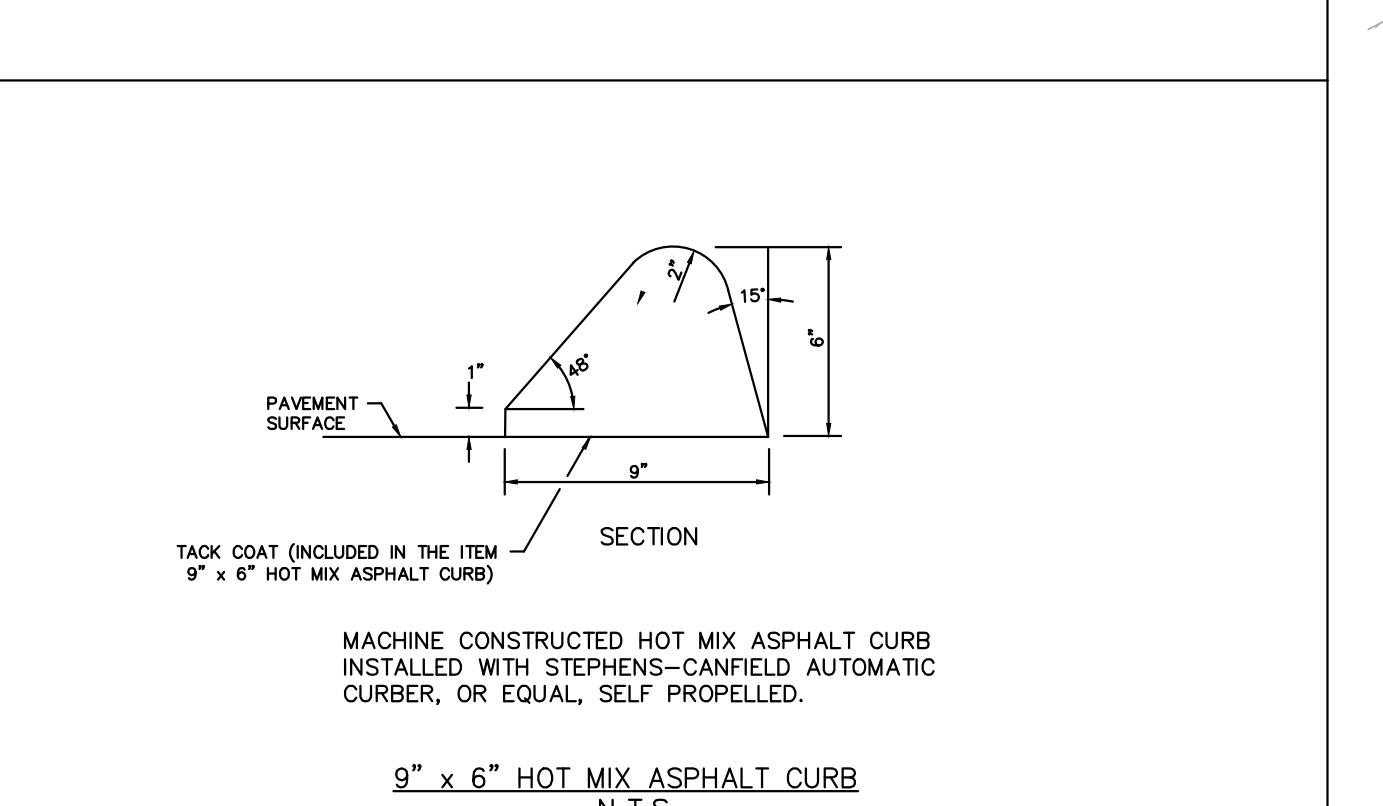
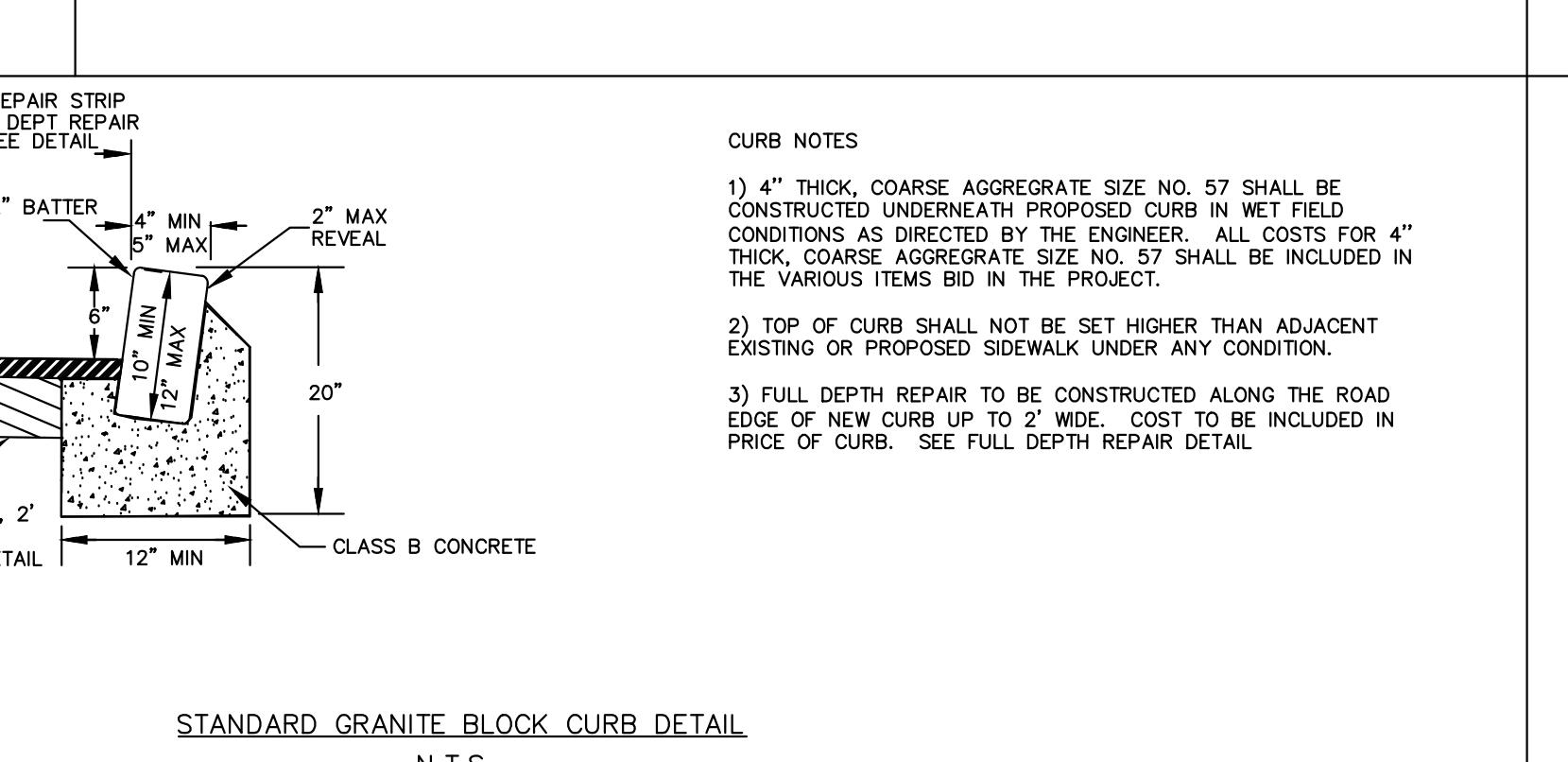
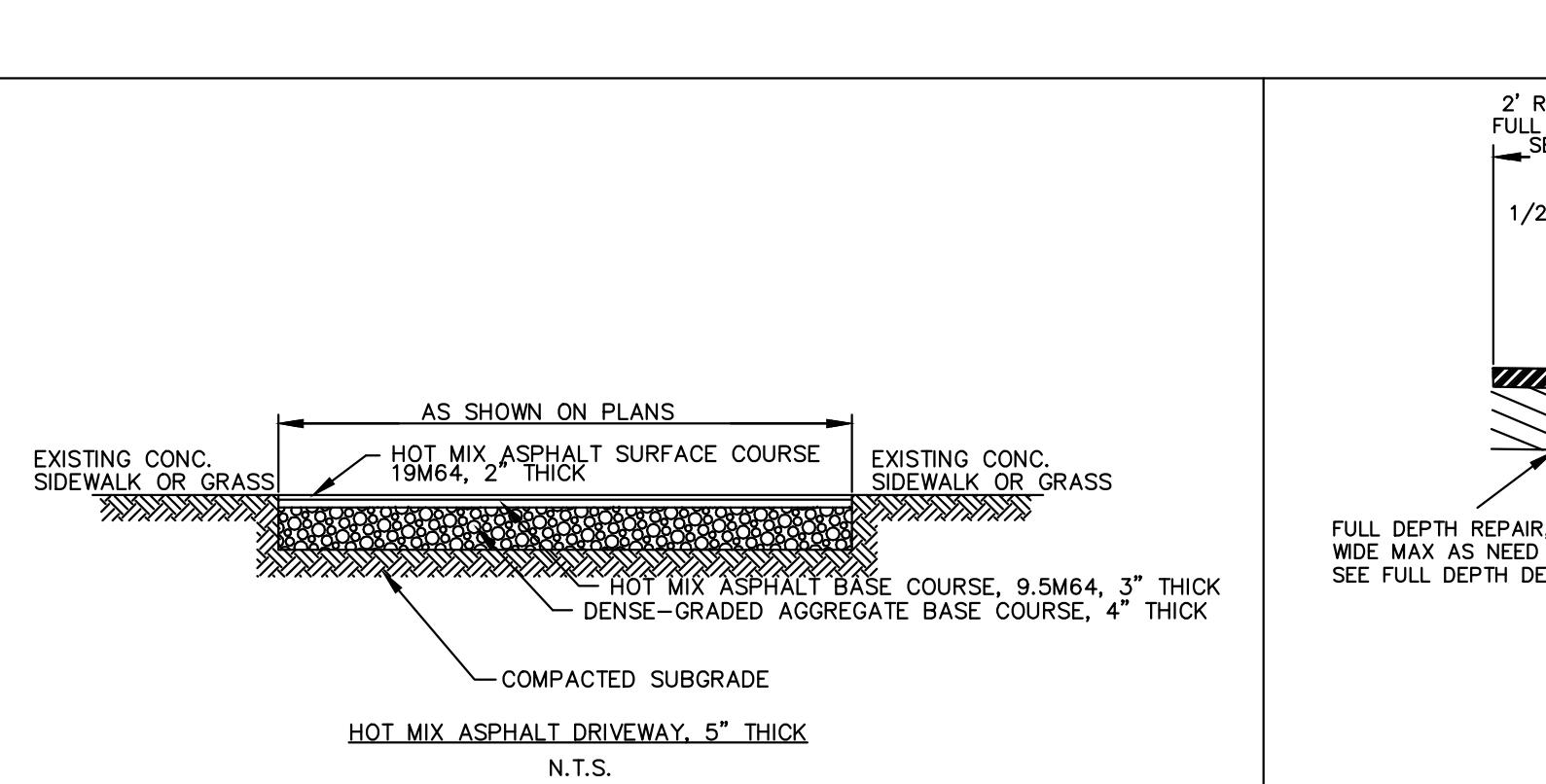


DATE:
6/6/2023
DRAWN
BY: KS
SCALE
N.T.S.
13 OF 14

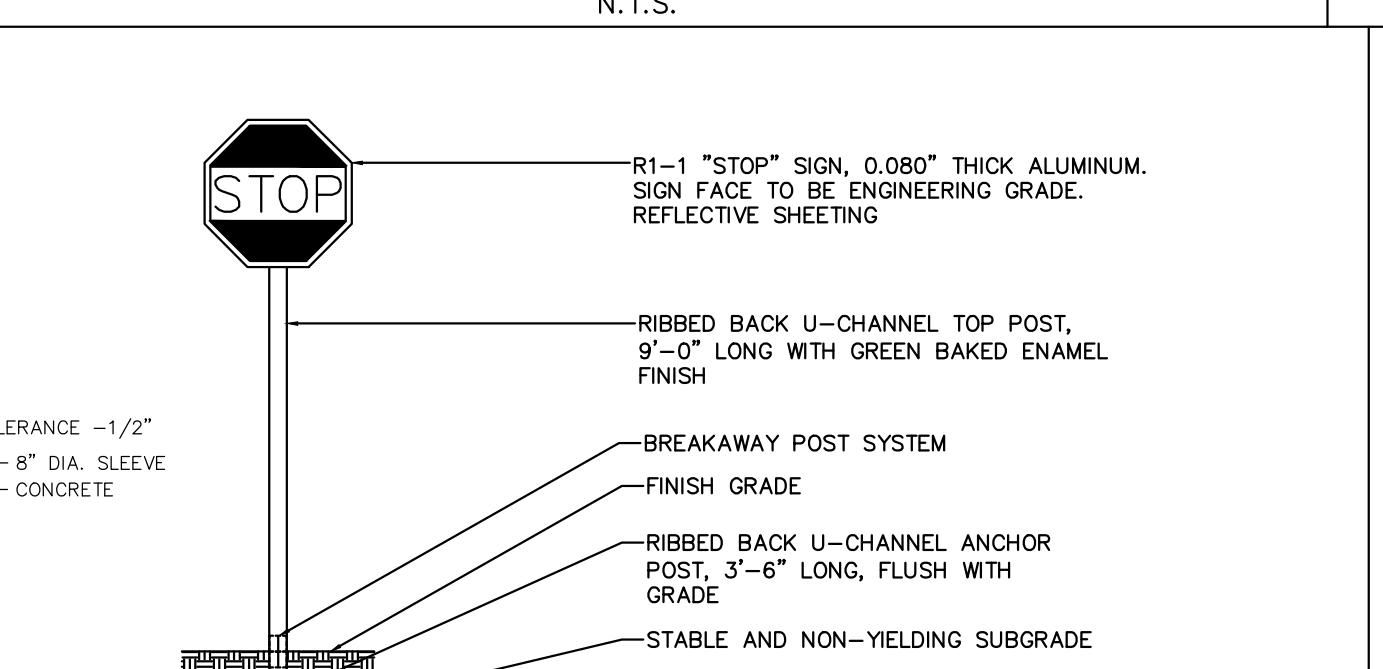
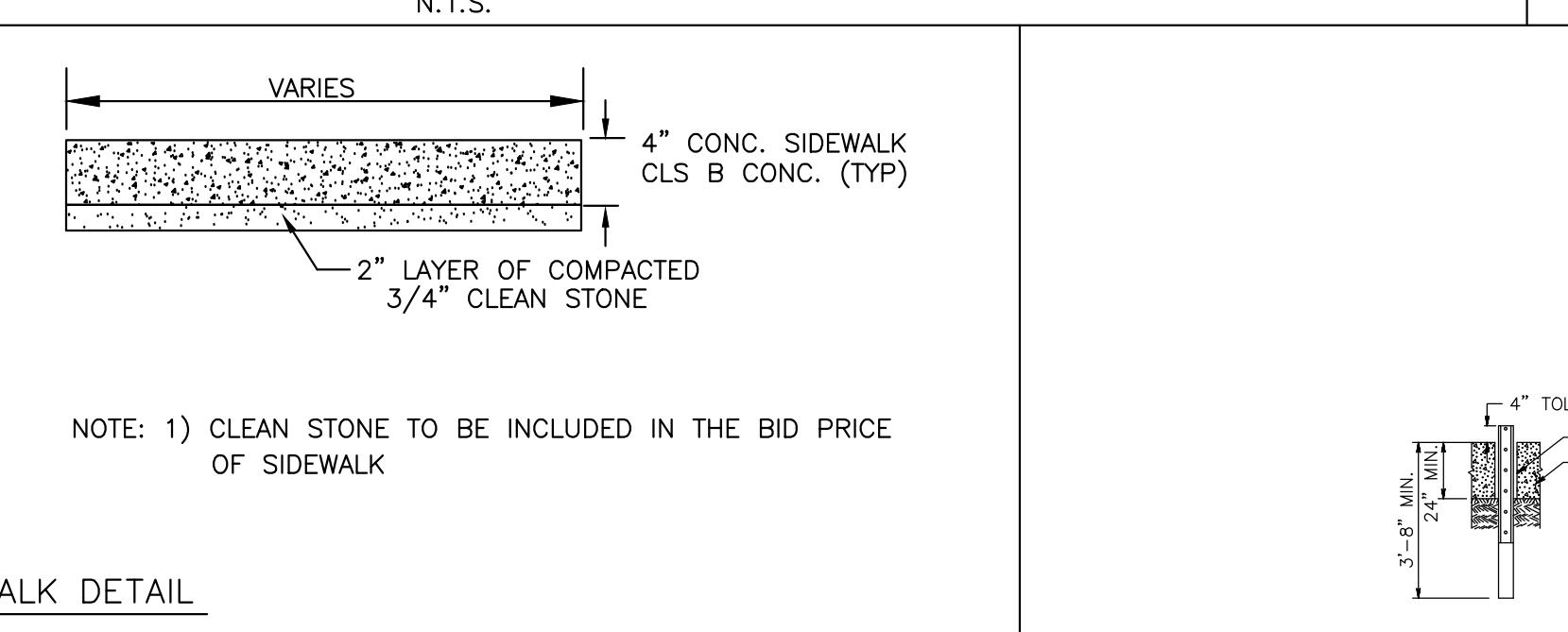
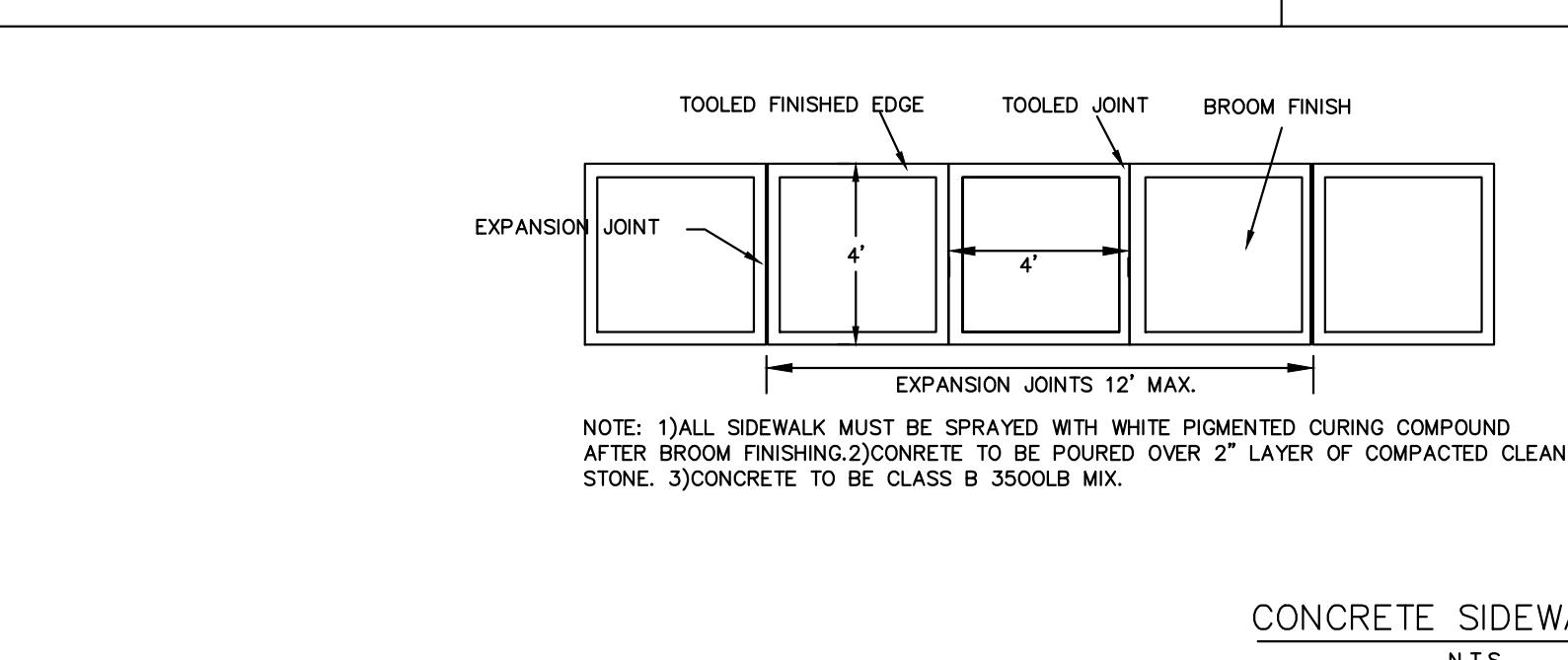


REVISIONS
NO. DATE

DESCRIPTION



HOT MIX ASPHALT SIDEWALK, 4" THICK
N.T.S.

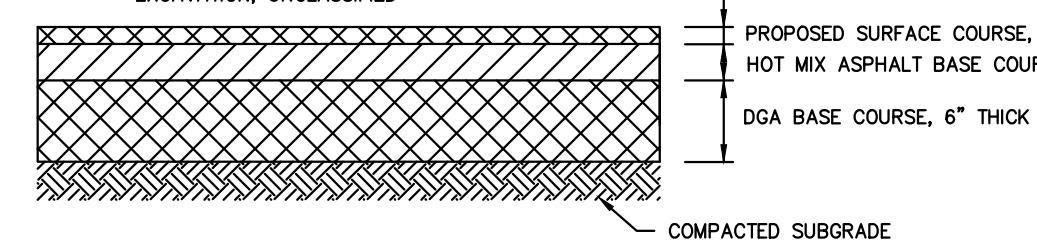


NOTES

1. REMOVE AND REPLACE ROADWAY BASE SHALL CONSIST OF THE REMOVAL OF UNSUITABLE ROADWAY BASE MATERIAL OF WHATEVER NATURE ENCOUNTERED TO A DEPTH OF AT LEAST 10" UNCOVERED AFTER MILLING OR VISIBLE PRIOR TO MILLING OR RESURFACING AND THE INSTALLATION OF AT LEAST 4" HOT MIX ASPHALT BASE COURSE AND 6" DGA. THE PERIMETER OF THE REPAIR SHALL BE SAWCUT.

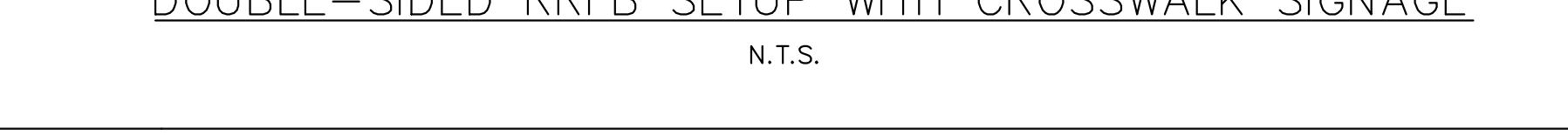
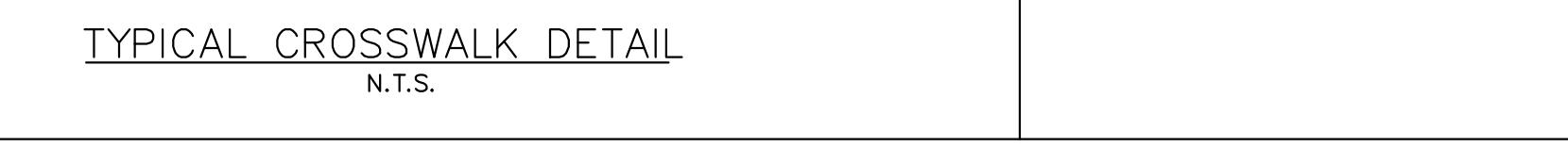
2. THE FOLLOWING ITEMS OF WORK ARE INCLUDED UNDER FULL DEPTH REPAIR:

- SAWCUT
- HOT MIX ASPHALT BASE COURSE
- DGA
- EXCAVATION UNCLASSIFIED

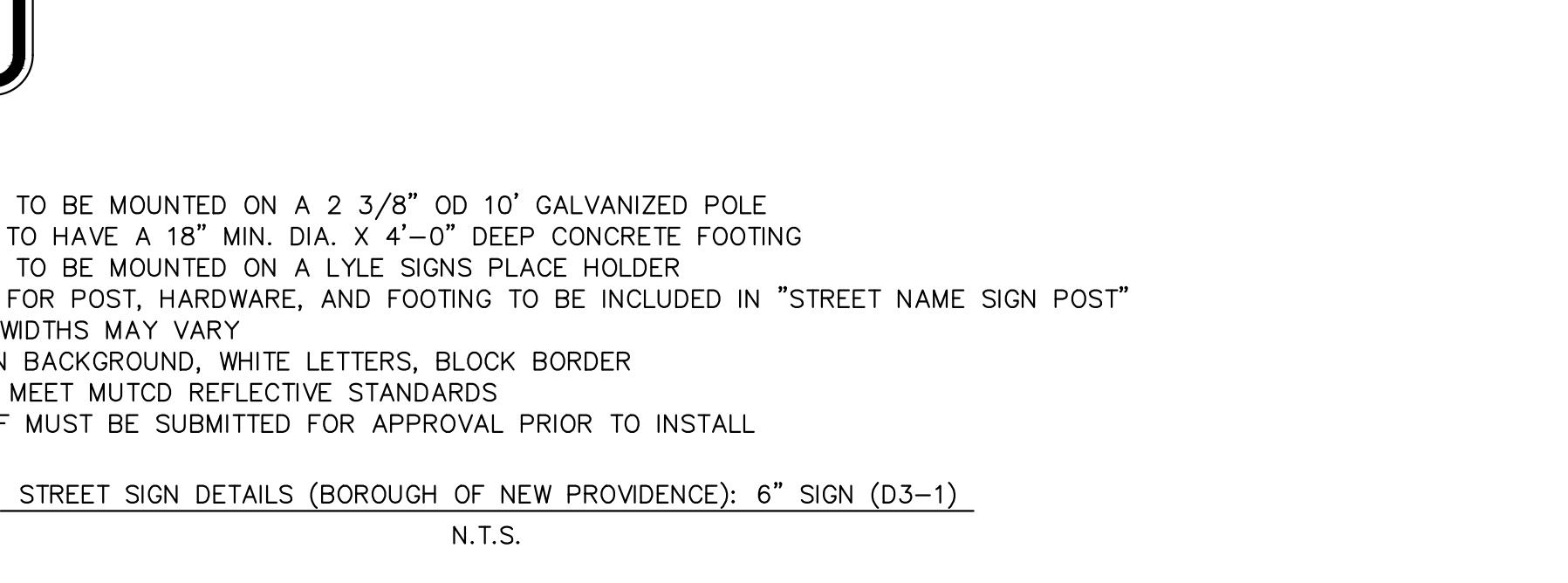
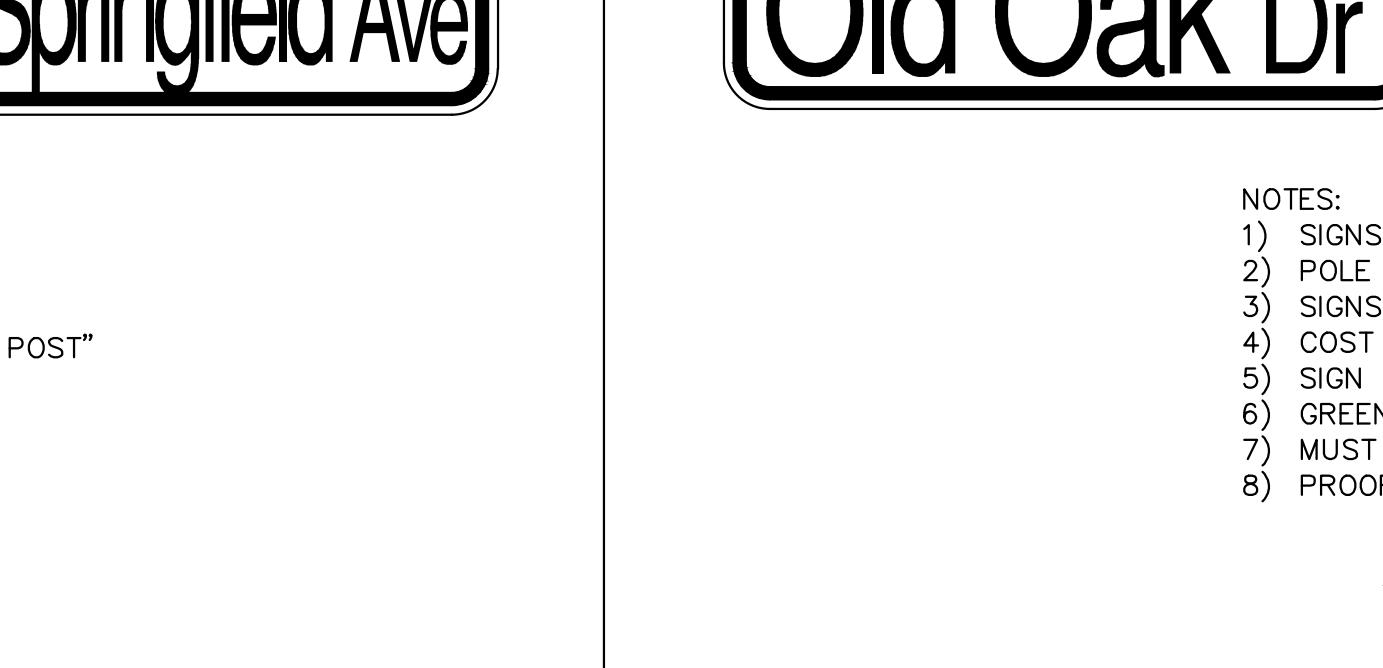
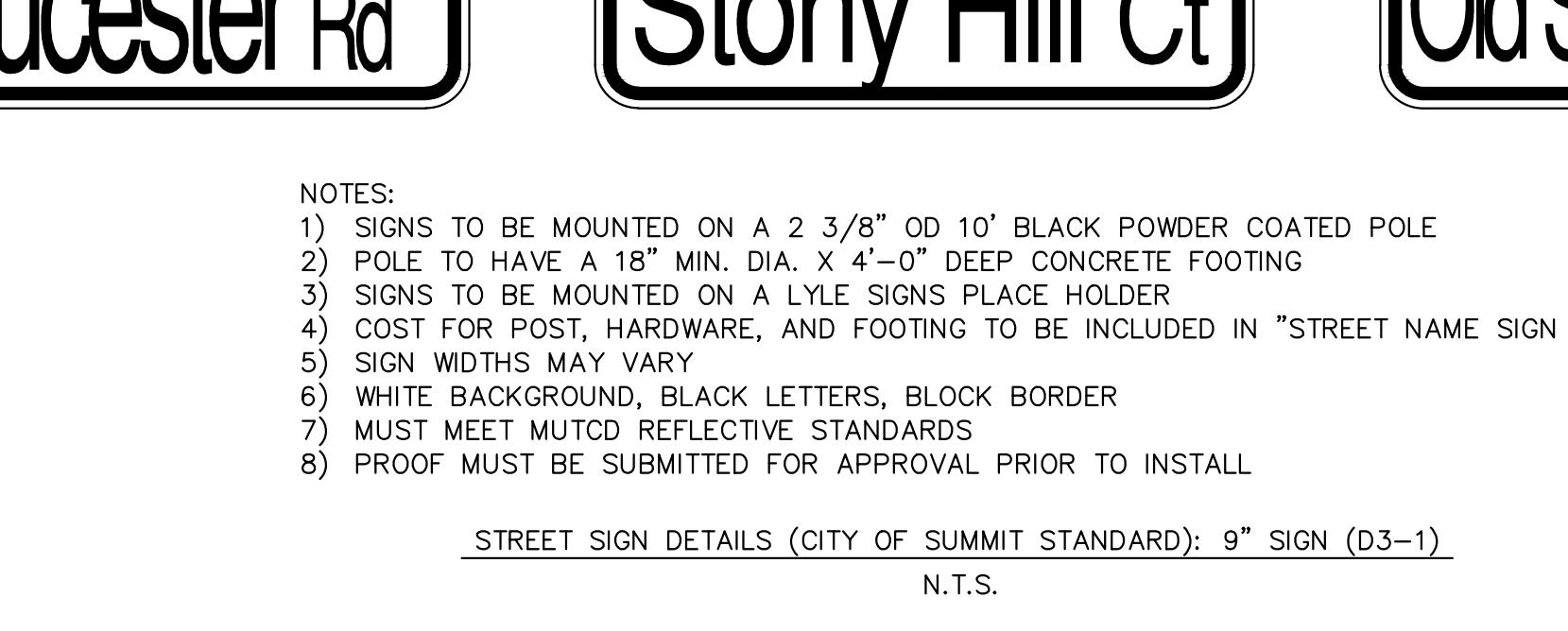
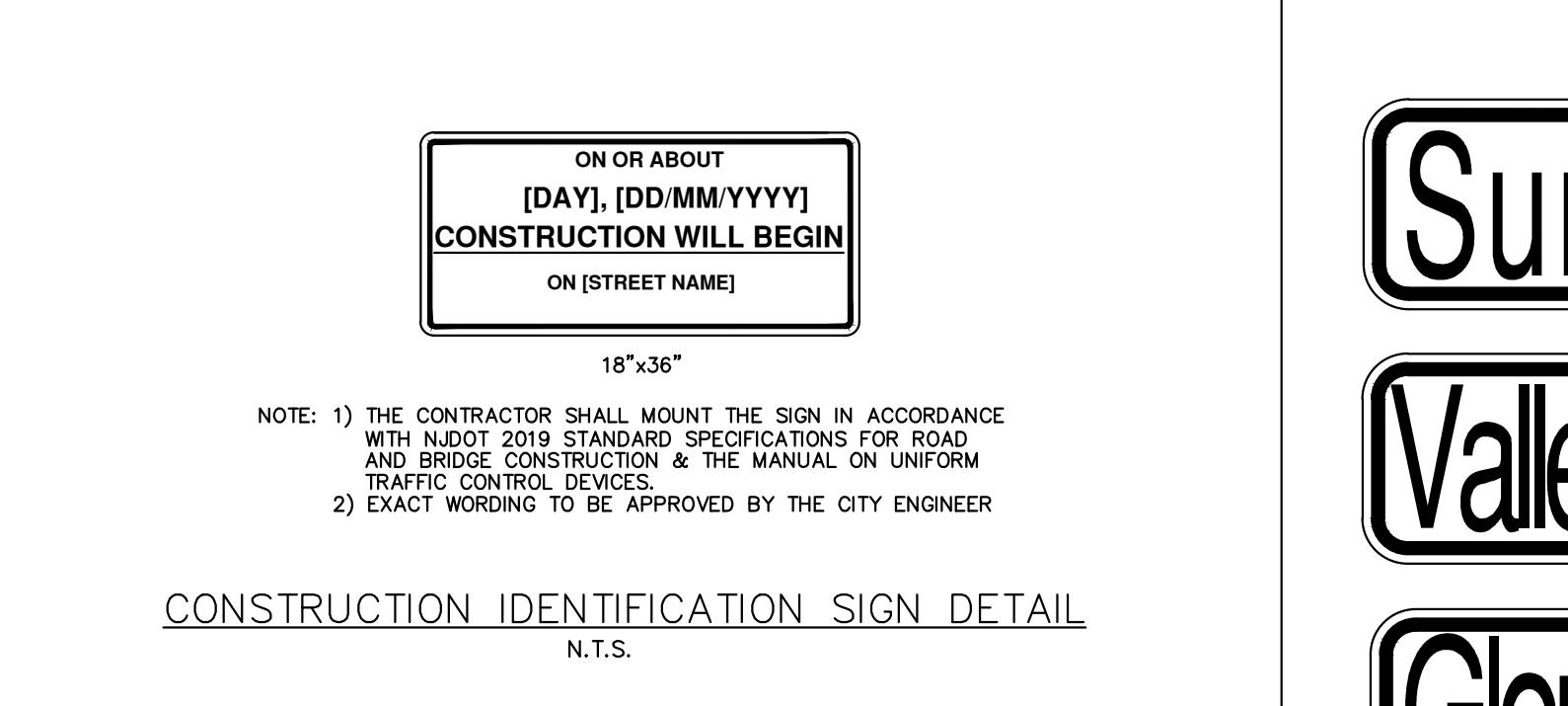


FULL DEPTH REPAIR

N.T.S.



DOUBLE-SIDED RRFB SETUP WITH CROSSWALK SIGNAGE
N.T.S.



REVISIONS	DESCRIPTION
NO. DATE	

CITY OF SUMMIT UNION CO., N.J.
DIVISION OF ENGINEERING
DEPARTMENT OF COMMUNITY SERVICES
512 SPRINGFIELD AVENUE
SUMMIT NJ 07901
UNION COUNTY



DATE:
6/6/2023

DRAWN
BY: KS
SCALE
N.T.S.

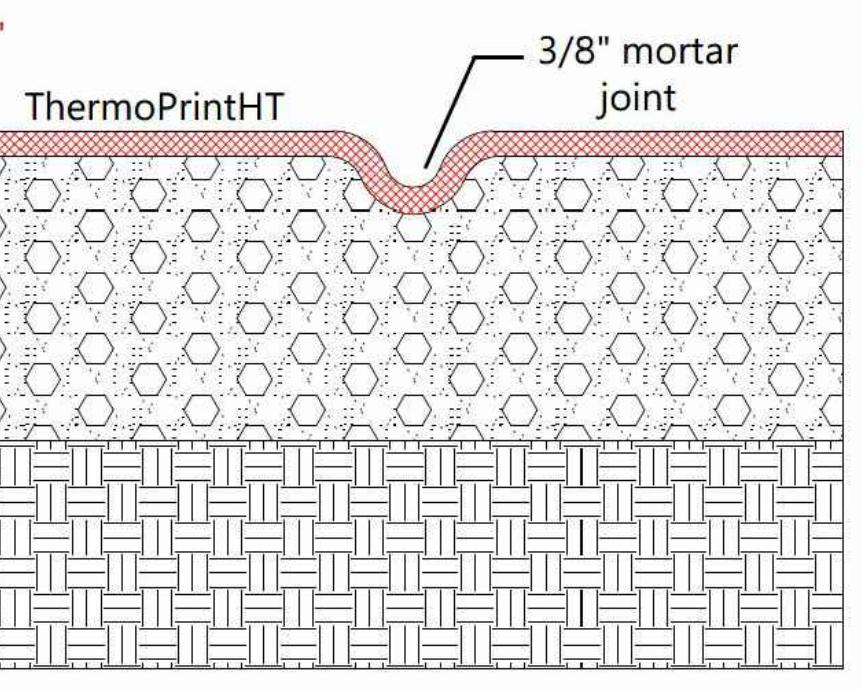
14 OF 14



ThermoPrint HT™
high-traffic thermoplastic crosswalks

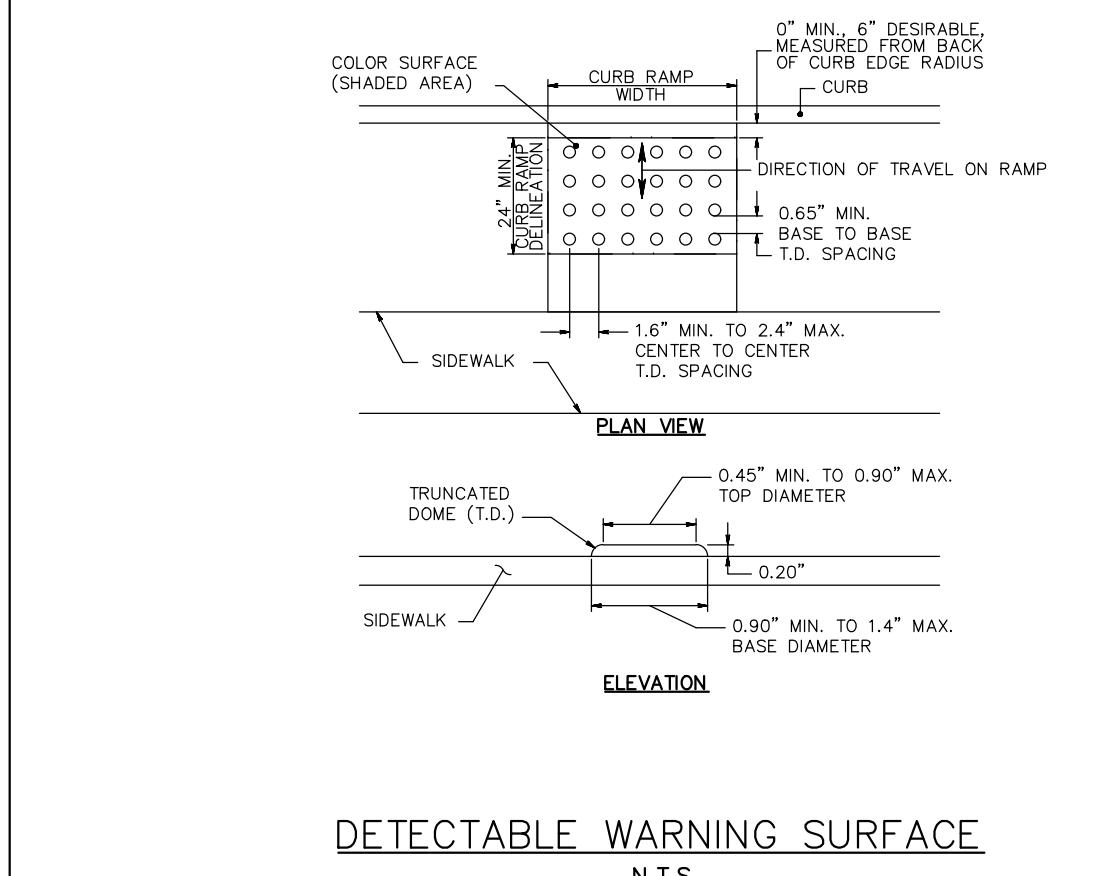
NOTES:

1. TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND STANDARDS.
2. PATTERN SHALL BE RUNNINGBOND AND COLOR SHALL BE TERRA COTTA RED. FINAL COLOR & PATTERN MUST BE SUBMITTED TO CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



ThermoPrint HT
Aggregate Reinforced Thermoplastic
Decorative Surfacing System

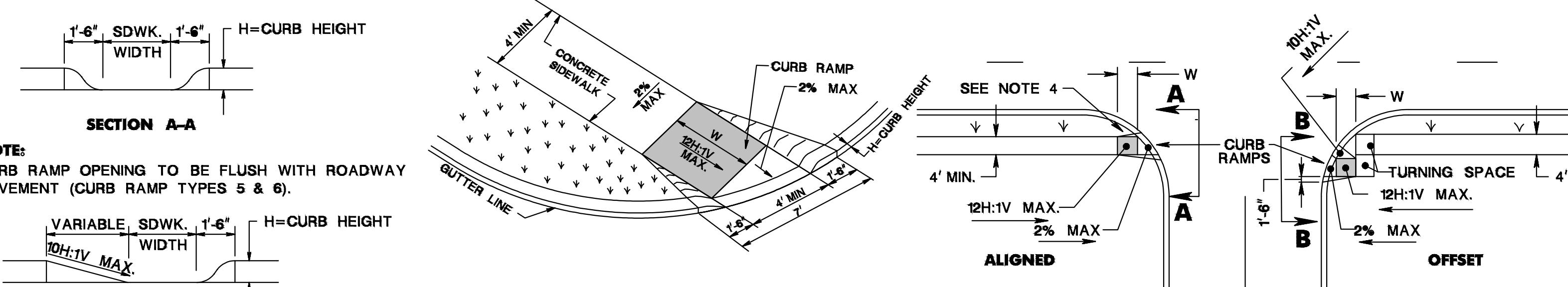
DETAIL OF DECORATIVE HIGH TRAFFIC PAVEMENT SURFACING (THERMOPRINT)
N.T.S.



DETECTABLE WARNING SURFACE
N.T.S.

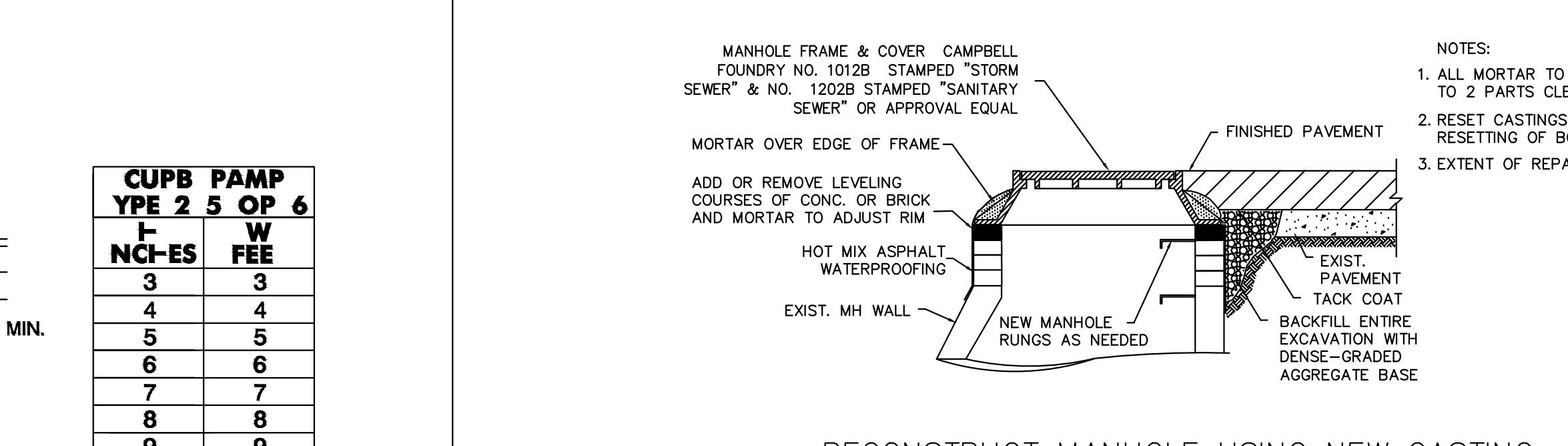
GENERAL NOTES:

1. LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
2. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRAMATICALLY IN AREA OF PROPOSED CURB RAMP.
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
8. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
9. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
10. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.

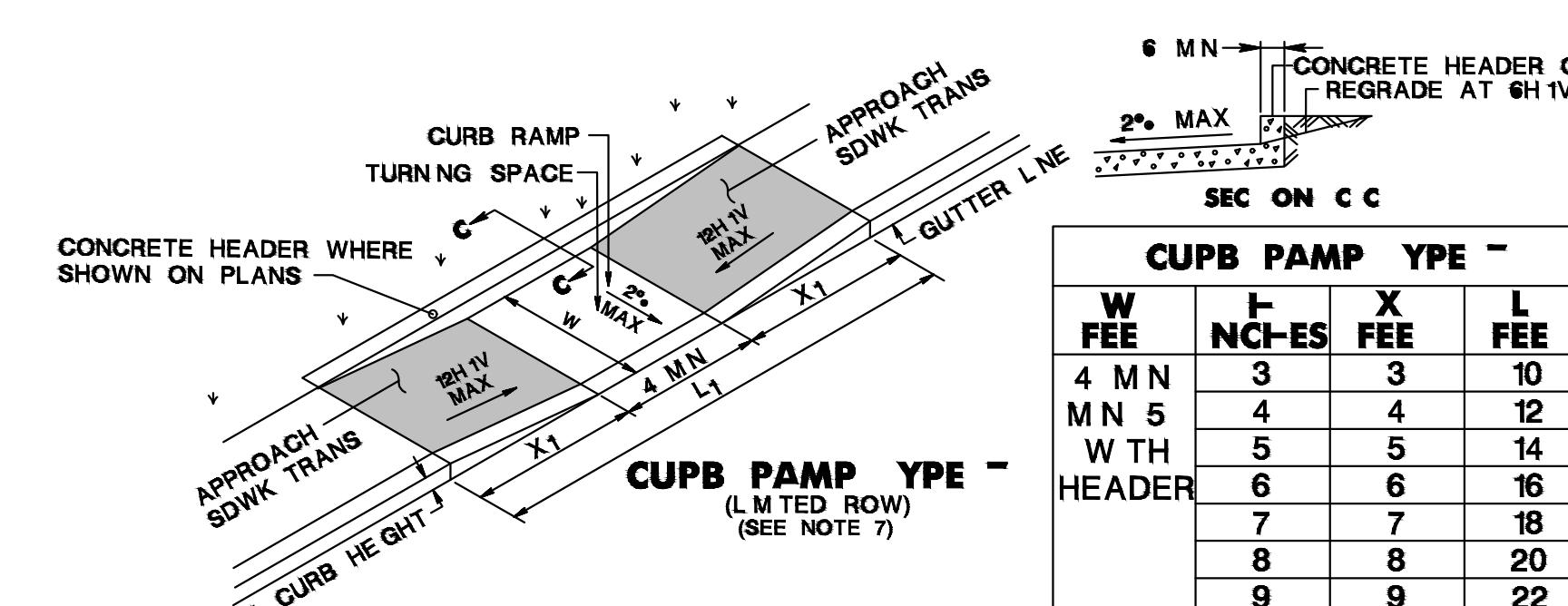


CURB RAMP TYPE 4

W FEET	H INCHES	Y FEET	X2 FEET	L2 FEET	W FEET	H INCHES	Y FEET	X2 FEET	L2 FEET
2.5	3	2.5	0.5	5	3.5	3	**	**	**
	4	2.5	1.5	7		4	3.5	0.5	5
5	2.5	2.5	9		5	3.5	1.5	7	
6	2.5	3.5	11		6	3.5	2.5	9	
7	2.5	4.5	13		7	3.5	3.5	11	
8	2.5	5.5	15		8	3.5	4.5	13	
9	2.5	6.5	17		9	3.5	5.5	15	
3.0	3	**	**	**	3	**	**	**	**
	4	3.0	1	6		4	**	**	**
5	3.0	2	8		5	4.0	1	6	
6	3.0	3	10		6	4.0	2	8	
7	3.0	4	12		7	4.0	3	10	
8	3.0	5	14		8	4.0	4	12	
9	3.0	6	16		9	4.0	5	14	



RECONSTRUCT MANHOLE USING NEW CASTING
N.T.S.

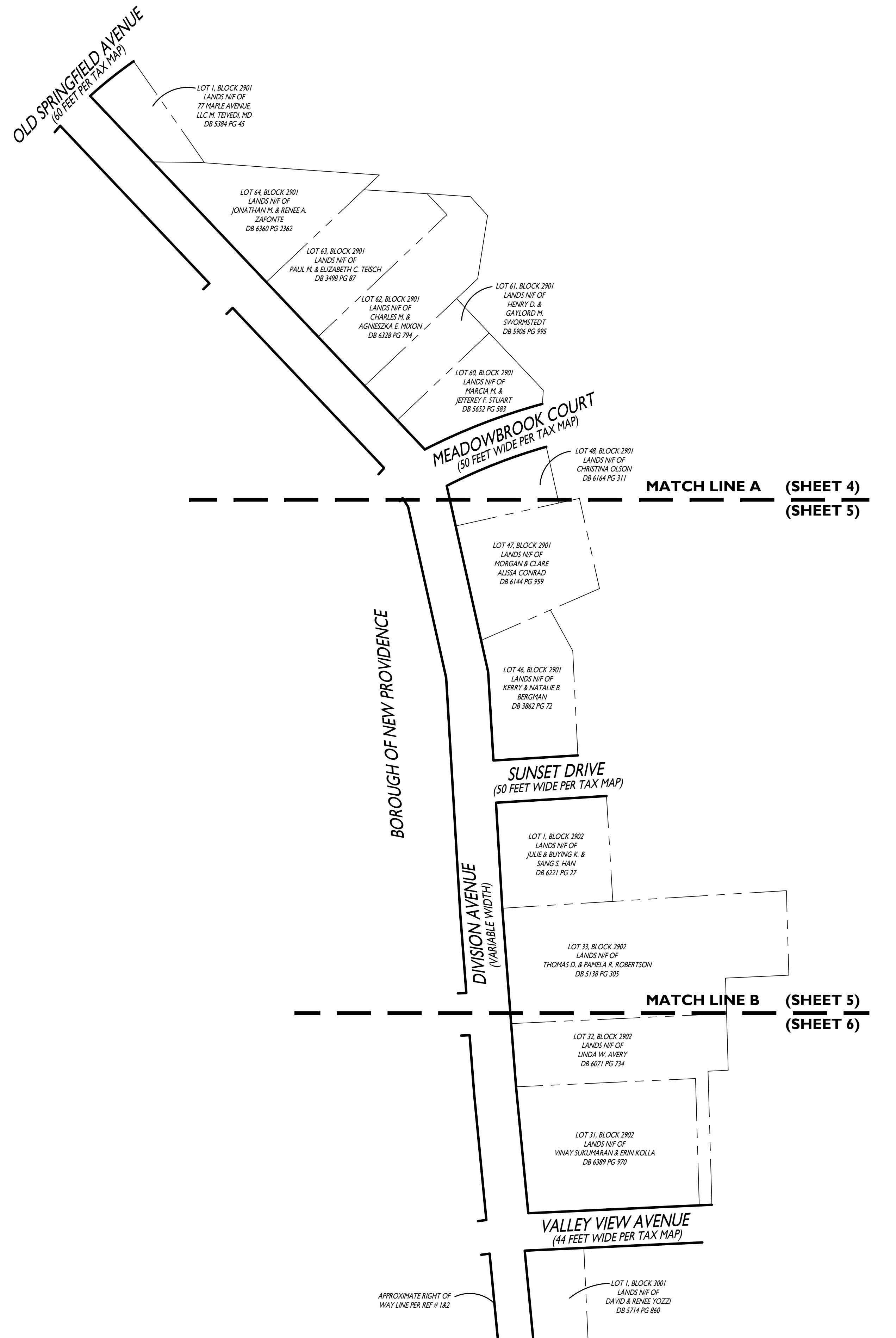


W FEET	N.C.I.-ES	X FEET	L FEET
4 M N	3	3	10
M N 5	4	4	12
W TH	5	5	14
HEADER	6	6	16
	7	7	18
	8	8	20
	9	9	22



Know what's **below**
Call before you dig.

SYMBOL		DESCRIPTION
		BUILDING
		CONCRETE SIDEWALK/MAT
		ASPHALT/CONCRETE CURB
		DEPRESSED CURB
		PROPERTY LINE
		ADJACENT PROPERTY LINE
		CHAIN LINK FENCE
		BOARD-ON-BOARD FENCE
		GUIDE RAIL
		MAST ARM LIGHT POLE
		POLE
		LIGHT POLE
		SIGNS
		WATER VALVE
		GAS VALVE
		FIRE HYDRANT
		DRAIN
		INLET
		MAN HOLE
		MONITORING WELL
		FIRE DEPARTMENT CONNECTION
		BOX (ELEC, GAS, ETC.)
		OVERHEAD WIRE
		UNDERGROUND GAS LINE
		UNDERGROUND WATER LINE
		MAJOR CONTOUR
		MINOR CONTOUR
		GRADE SPOT SHOT
		TOP OF CURB SHOT
		BOTTOM OF CURB SHOT
		TOP OF WALL SHOT
		BOTTOM OF WALL SHOT
		ELEC METER
		GAS METER
		WATER METER
		DECIDUOUS TREE - DIAMETER NOTED
		CLEAN OUT
		IRON PIN
		BENCH MARK
		DETECTABLE WARNING STRIP



SURVEY NOTES

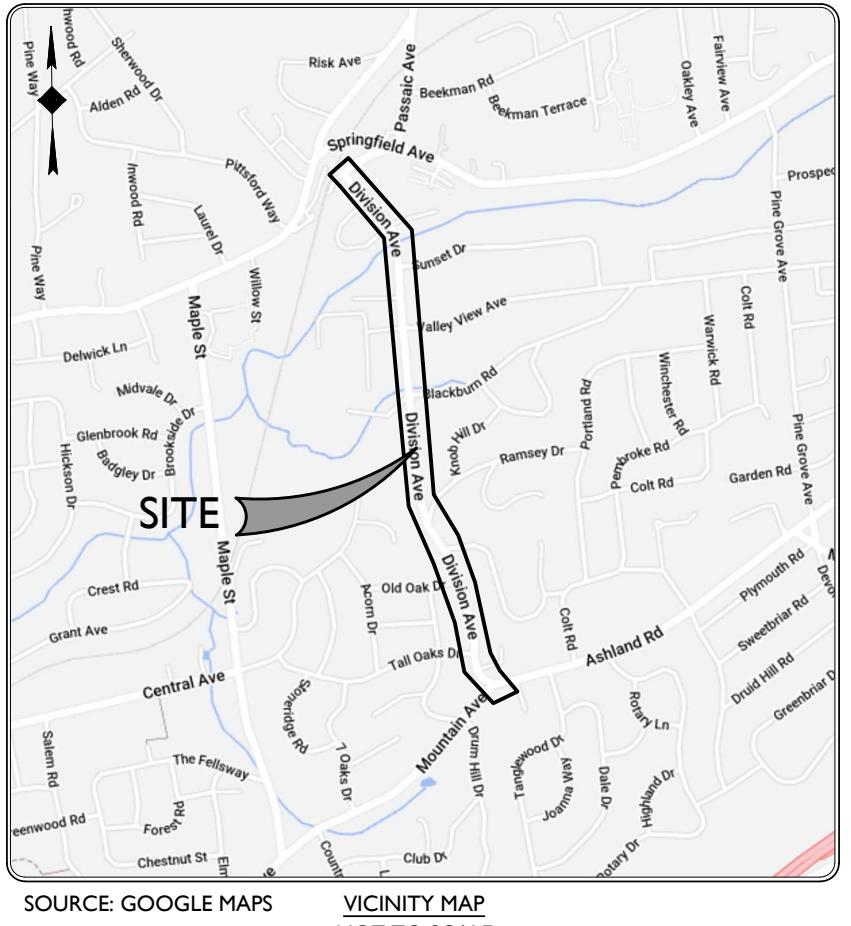
1. THIS SURVEY AND THE BOUNDARIES SHOWN HEREON ARE THE RESULT OF AN ACTUAL FIELD SURVEY PERFORMED DURING AUGUST OF 2022 AND REFERENCE NO. 2022009, BASED ON AVAILABLE MAPS AND PHYSICAL EVIDENCE. THIS SURVEY IS SUBJECT TO ALL EASEMENTS, RIGHTS OF WAYS AND AGREEMENTS OF RECORD THAT A TITLE SEARCH MAY DISCLOSE.
2. THIS SURVEY IS VALID ONLY WHEN A DIGITAL OR EMBOSSED SEAL IS AFFIXED HERETO.
3. THE CERTIFICATION SHOWN HEREON IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
4. ANY SUBSURFACE UTILITIES SHOWN HAVE BEEN LOCATED FROM MARKOUTS OBSERVED ON SITE DURING THE FIELD SURVEY, AND SURFACE FEATURES SUCH AS VALVES, MANHOLE COVERS AND OTHER FEATURES SHOWN ON THE SURFACE MAP ARE NOT LOCATED BASED ON OBSERVATIONS MADE IN THE FIELD. THE SURVEYOR MAKES NO WARRANTIES THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION ON THE SURFACE. THE SURVEYOR LOCATES THE UTILITIES BEFORE ANY EXCAVATIONS ARE BEGUN. THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
5. BEARINGS ARE REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83). ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), ESTABLISHED VIA RTK GPS OBSERVATIONS.
6. BENCHMARK = MAG NAIL = 295.41' (NAVD88).
BENCHMARK = MAG NAIL = 275.65' (NAVD88).
BENCHMARK = MAG NAIL = 403.11' (NAVD88).
7. BASEMENT OR BELOW GRADE STRUCTURES (IF ANY) UNKNOWN.

SURVEY REFERENCES

1. DIGITAL TAX MAP SHEETS 29, 30 & 52 OF THE CITY OF SUMMIT, UNION COUNTY, NEW JERSEY, DATED APRIL 12, 2012.
2. DIGITAL TAX MAP SHEETS 12, 25 & 26 OF THE BOROUGH OF NEW PROVIDENCE, UNION COUNTY, NEW JERSEY, LAST REVISED 5/25/2006.

FLOOD NOTE

BY GRAPHIC PLOTTING ONLY. THIS PROPERTY IS IN ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) OF THE FLOOD INSURANCE RATE MAP, COMMUNITY NO. 340476, MAP NUMBER 34039C0008F WHICH BEARS AN EFFECTIVE DATE OF 9/20/2006.



NJPC (NAD83)

80' 0' 80' 160'
GRAPHIC SCALE IN FEET
1" = 80'

Rutherford, NJ • New York, NY
Princeton, NJ • Tampa, FL • Detroit, MI
www.stonefielddeng.com

Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 • Fax 201.340.4472

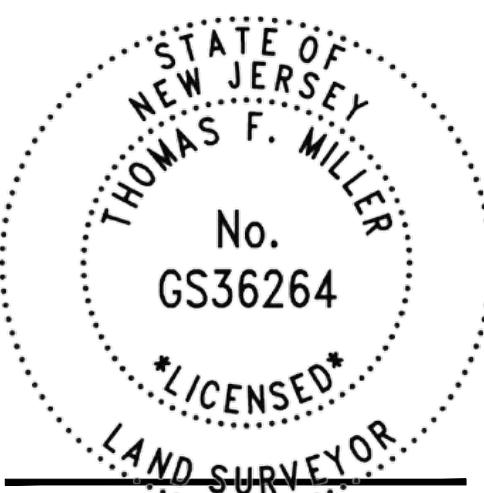
ROUTE SURVEY

MAP OF SURVEY OF:

DIVISION AVENUE
CITY OF SUMMIT
COUNTY OF UNION, STATE OF NEW JERSEY

I	9/23/2022	TDD	AG	8/19/2022	JD	FOR ISSUE
ISSUE	DATE	DRAFT BY	CHECK BY	FIELD DATE	FIELD CREW	DESCRIPTION

SUBJECT TO RESTRICTIONS, EASEMENTS OF RECORD AND OTHER FACTS WHICH A CURRENT TITLE SEARCH MIGHT DISCLOSE.



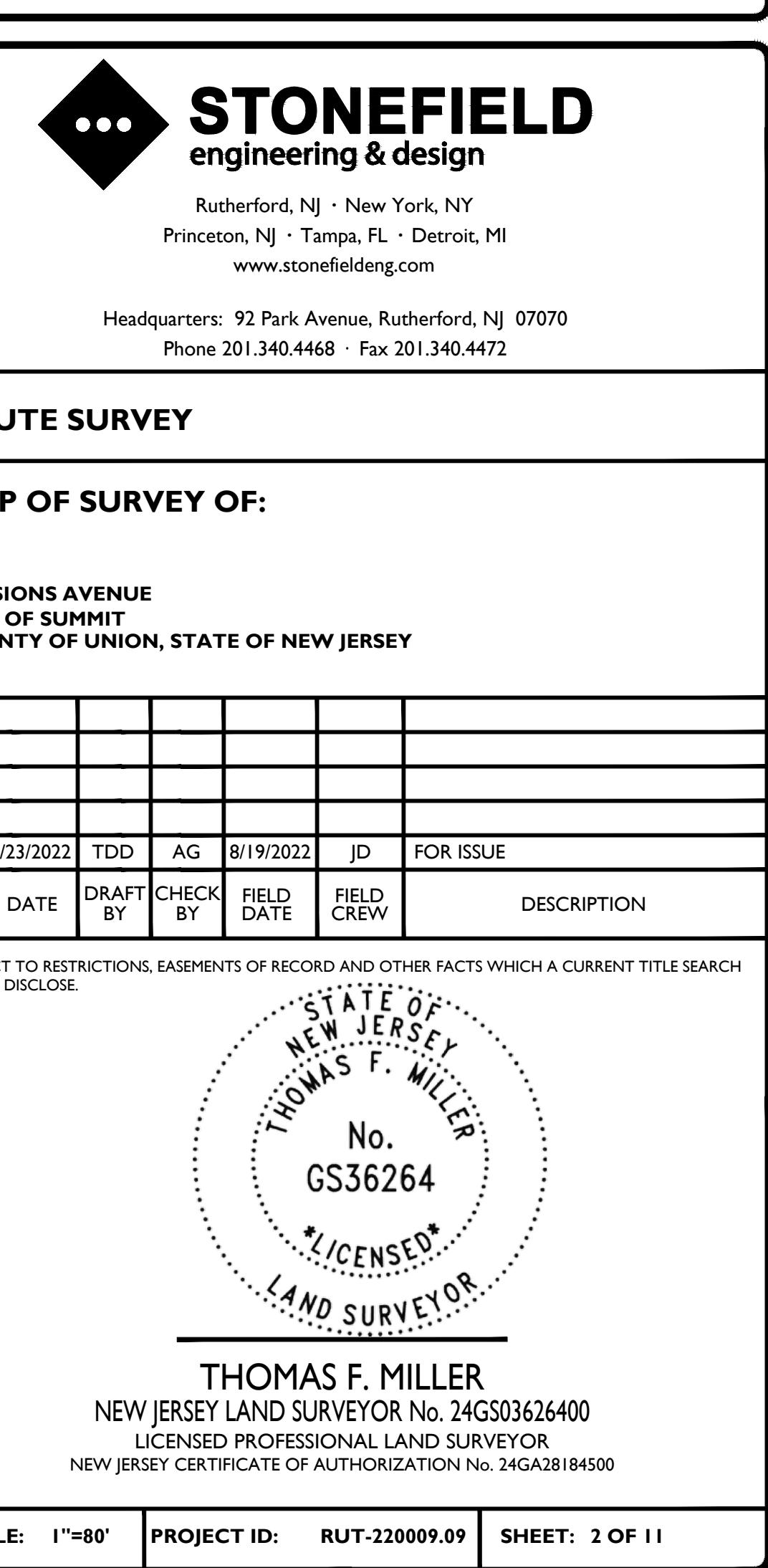
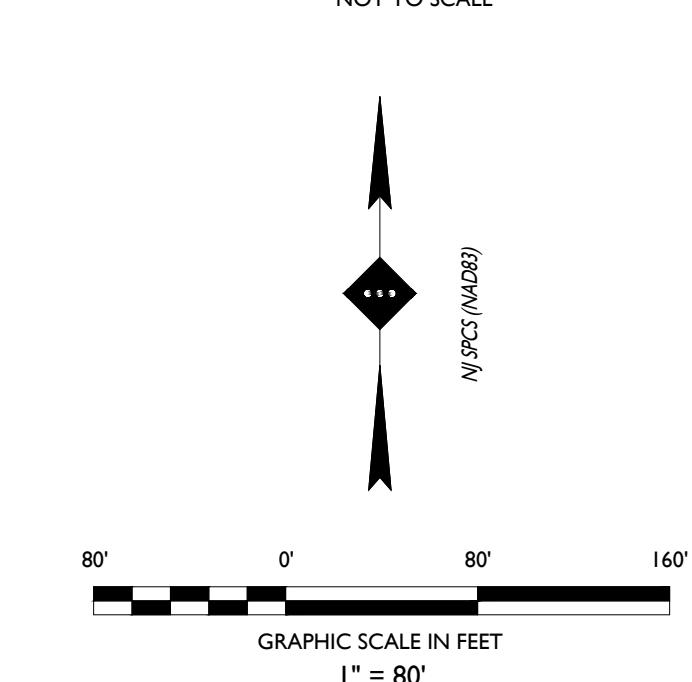
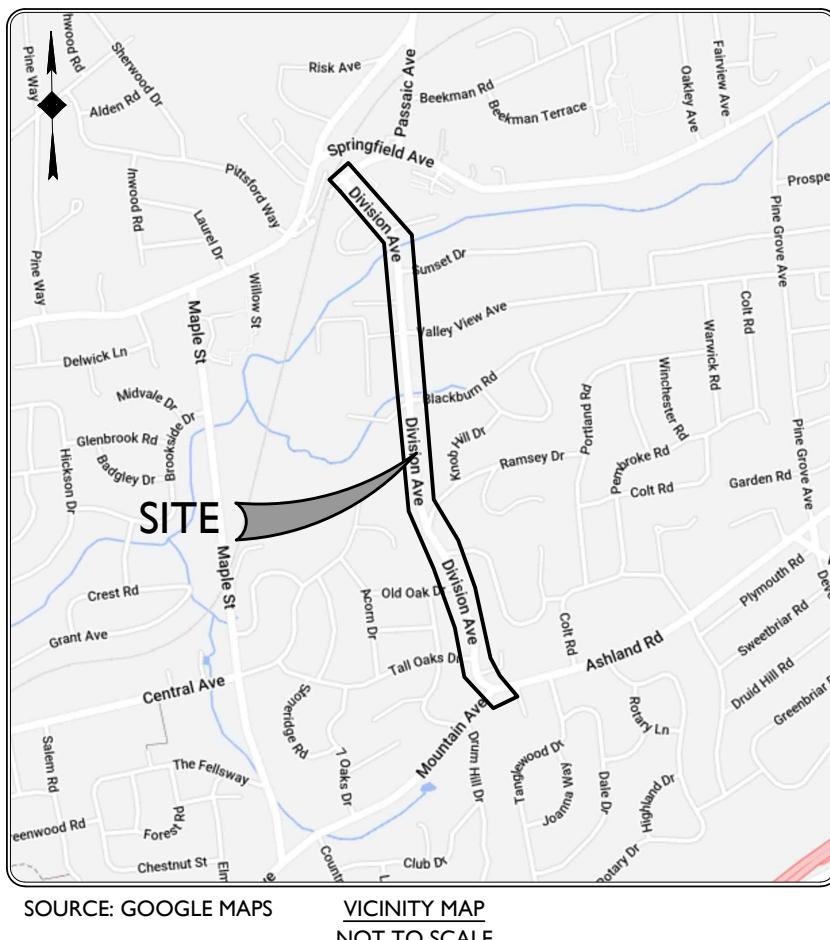
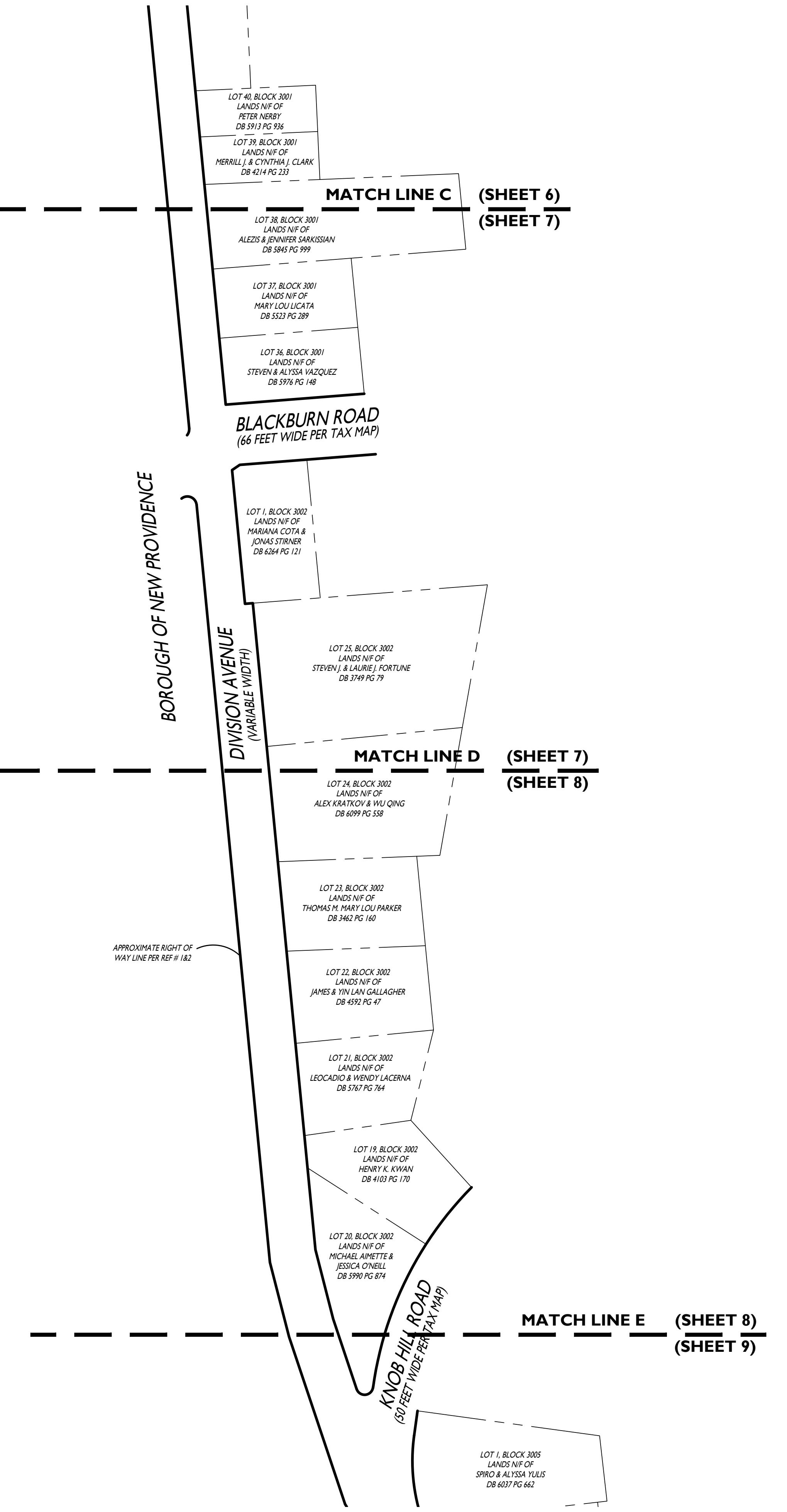
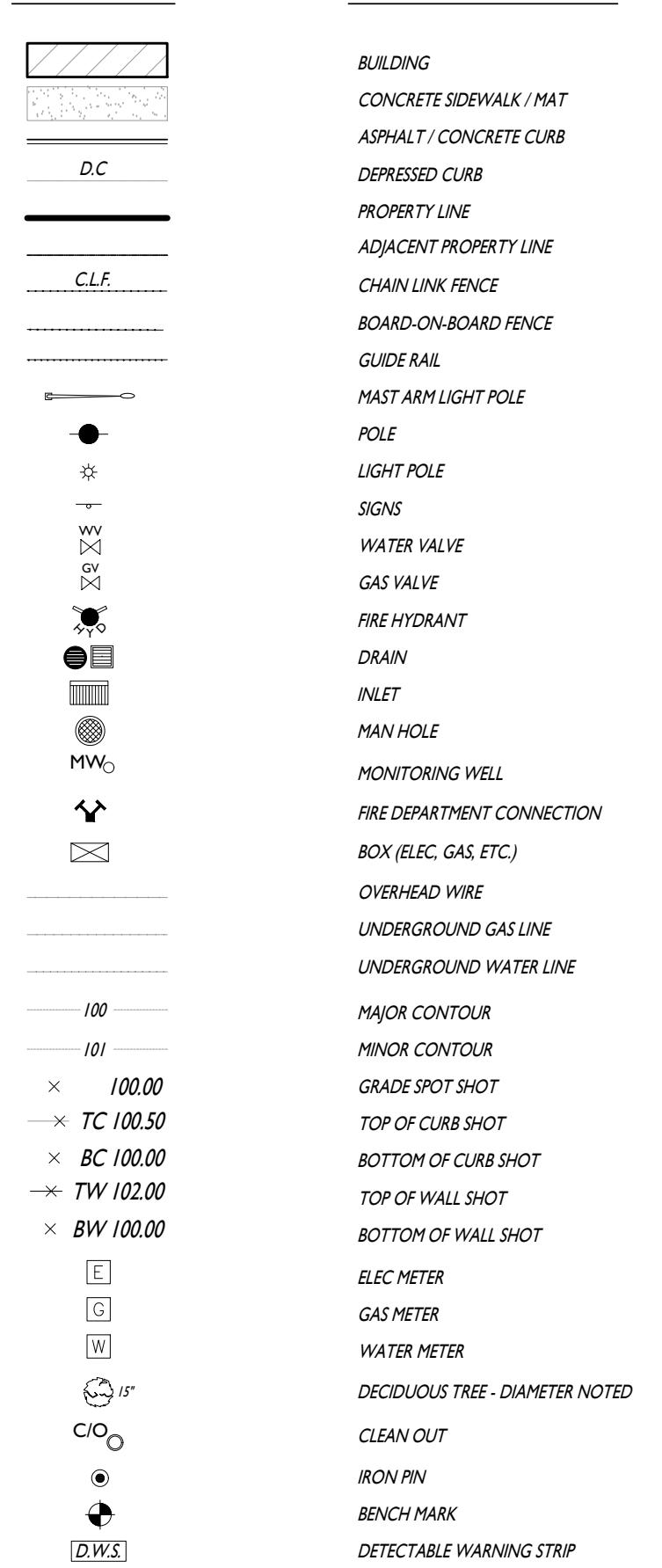
THOMAS F. MILLER

NEW JERSEY LAND SURVEYOR No. 24GS03626400
LICENSED PROFESSIONAL LAND SURVEYOR
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA28184500

SCALE: 1"=80' PROJECT ID: RUT-220009.09 SHEET: 1 OF 11



Know what's **below**
Call before you dig.





Know what's **below**
Call before you dig.

SYMBOL	
	CONCRETE SIDEWALK / MAT
	ASPHALT / CONCRETE CURB
	DEPRESSED CURB
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	CHAIN LINK FENCE
	BOARD-ON-BOARD FENCE
	GUIDE RAIL
	MAST ARM LIGHT POLE
	POLE
	LIGHT POLE
	SIGNS
	WATER VALVE
	GAS VALVE
	FIRE HYDRANT
	DRAIN
	INLET
	MAN HOLE
	MONITORING WELL
	FIRE DEPARTMENT CONNECTION
	BOX (ELEC, GAS, ETC.)
	OVERHEAD WIRE
	UNDERGROUND GAS LINE
	UNDERGROUND WATER LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	GRADE SPOT SHOT
	TOP OF CURB SHOT
	BOTTOM OF CURB SHOT
	TOP OF WALL SHOT
	BOTTOM OF WALL SHOT
	ELEC METER
	GAS METER
	WATER METER
	DECIDUOUS TREE - DIAMETER NOTED
	CLEAN OUT
	IRON PIN
	BENCHMARK
	DETECTABLE WARNING STRIP

DESCRIPTION

BUILDING
CONCRETE SIDEWALK / MAT

ASPHALT / CONCRETE CURB

DEPRESSED CURB

PROPERTY LINE

ADJACENT PROPERTY LINE

CHAIN LINK FENCE

BOARD-ON-BOARD FENCE

GUIDE RAIL

MAST ARM LIGHT POLE

POLE

LIGHT POLE

SIGNS

WATER VALVE

GAS VALVE

FIRE HYDRANT

DRAIN

INLET

MAN HOLE

MONITORING WELL

FIRE DEPARTMENT CONNECTION

BOX (ELEC, GAS, ETC.)

OVERHEAD WIRE

UNDERGROUND GAS LINE

UNDERGROUND WATER LINE

MAJOR CONTOUR

MINOR CONTOUR

GRADE SPOT SHOT

TOP OF CURB SHOT

BOTTOM OF CURB SHOT

TOP OF WALL SHOT

BOTTOM OF WALL SHOT

ELEC METER

GAS METER

WATER METER

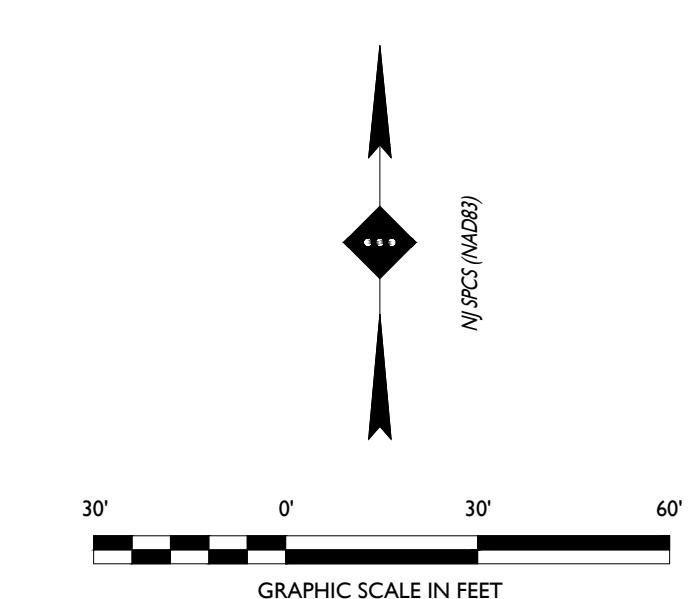
DECIDUOUS TREE - DIAMETER NOTED

CLEAN OUT

IRON PIN

BENCHMARK

DETECTABLE WARNING STRIP



STONEFIELD
engineering & design

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ROUTE SURVEY

MAP OF SURVEY OF:

DIVISIONS AVENUE
CITY OF SUMMIT
COUNTY OF UNION, STATE OF NEW JERSEY

I	9/23/2022	TDD	AG	8/19/2022	JD	FOR ISSUE
ISSUE	DATE	DRAFT BY	CHECK BY	FIELD DATE	FIELD CREW	DESCRIPTION

SUBJECT TO RESTRICTIONS, EASEMENTS OF RECORD AND OTHER FACTS WHICH A CURRENT TITLE SEARCH MIGHT DISCLOSE.



THOMAS F. MILLER

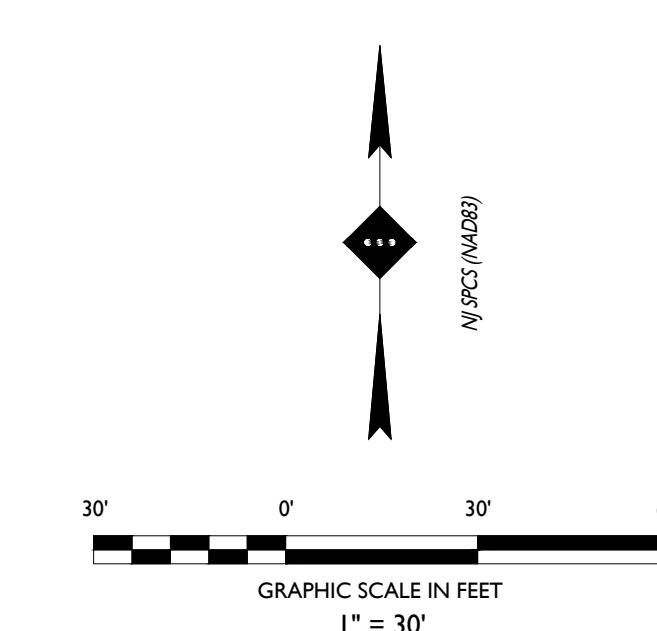
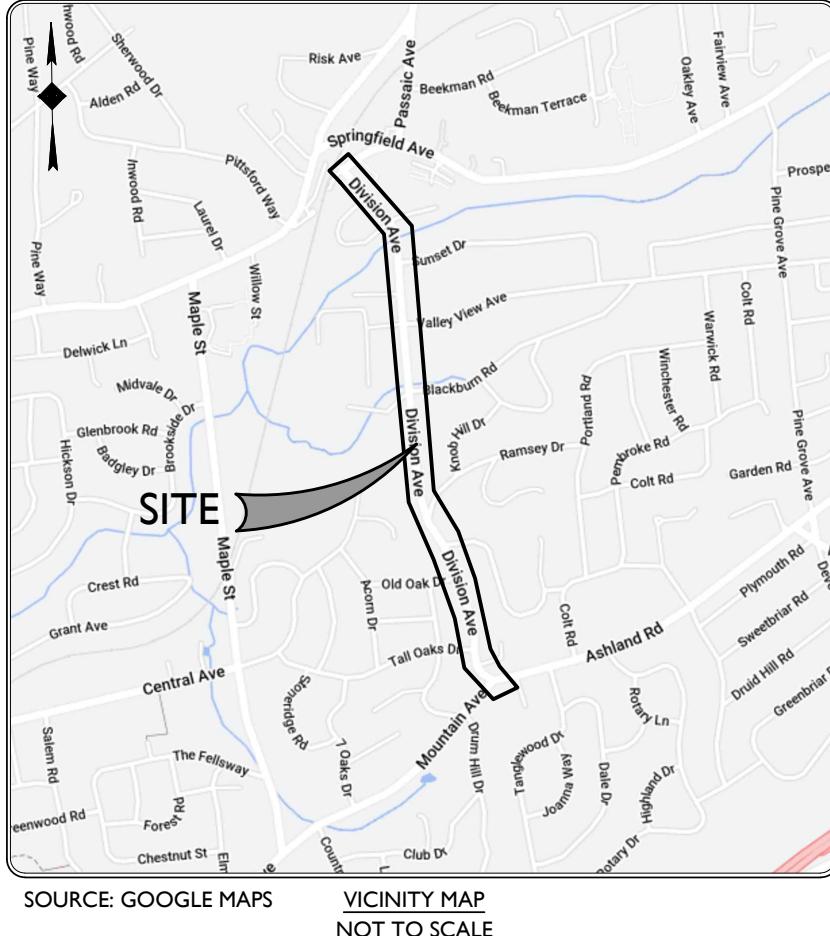
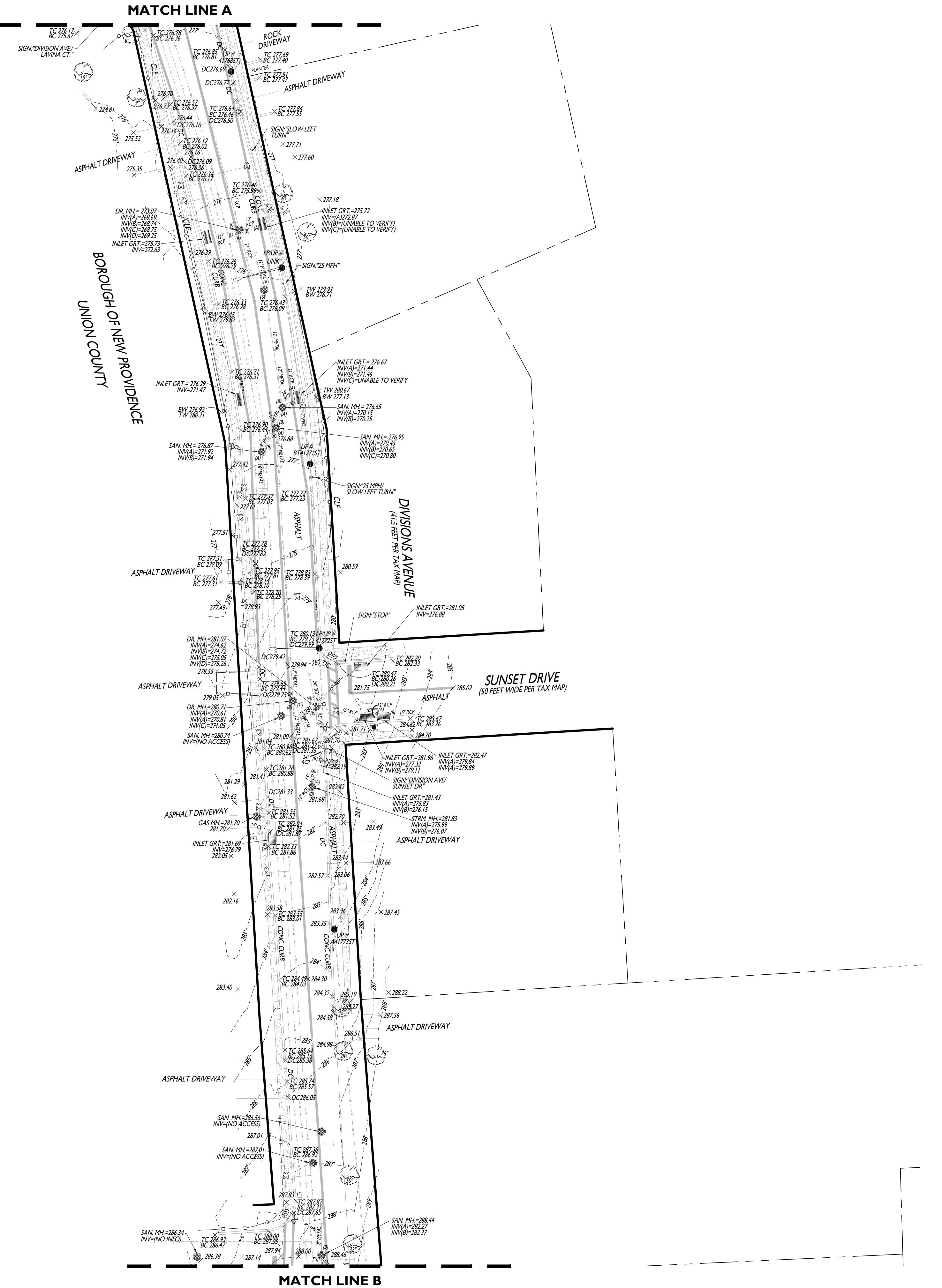
NEW JERSEY LAND SURVEYOR No. 24GS03626400
LICENSED PROFESSIONAL LAND SURVEYOR
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA28184500

SCALE: 1"=30' PROJECT ID: RUT-220009.09 SHEET: 4 OF 11



Know what's **below**
Call before you dig.

SYMBOL	DESCRIPTION
DC	BUILDING
CLF	CONCRETE SIDEWALK / MAT
CLF	ASPHALT / CONCRETE CURB
CLF	DEPRESSED CURB
CLF	PROPERTY LINE
CLF	ADJACENT PROPERTY LINE
CLF	CHAIN LINK FENCE
CLF	BOARD-ON-BOARD FENCE
CLF	GUIDE RAIL
CLF	MAST ARM LIGHT POLE
CLF	POLE
CLF	LIGHT POLE
CLF	SIGNS
CLF	WATER VALVE
CLF	GAS VALVE
CLF	FIRE HYDRANT
CLF	DRAIN
CLF	INLET
CLF	MANHOLE
CLF	MONITORING WELL
CLF	FIRE DEPARTMENT CONNECTION
CLF	BOX (ELEC, GAS, ETC.)
CLF	OVERHEAD WIRE
CLF	UNDERGROUND GAS LINE
CLF	UNDERGROUND WATER LINE
CLF	MAJOR CONTOUR
CLF	MINOR CONTOUR
CLF	GRADE SPOT SHOT
CLF	TOP OF CURB SHOT
CLF	BOTTOM OF CURB SHOT
CLF	TOP OF WALL SHOT
CLF	BOTTOM OF WALL SHOT
E	ELEC METER
G	GAS METER
W	WATER METER
18°	DECIDUOUS TREE - DIAMETER NOTED
CLO	CLEAN OUT
○	IRON PIN
△	BENCH MARK
DWS	DETECTABLE WARNING STRIP



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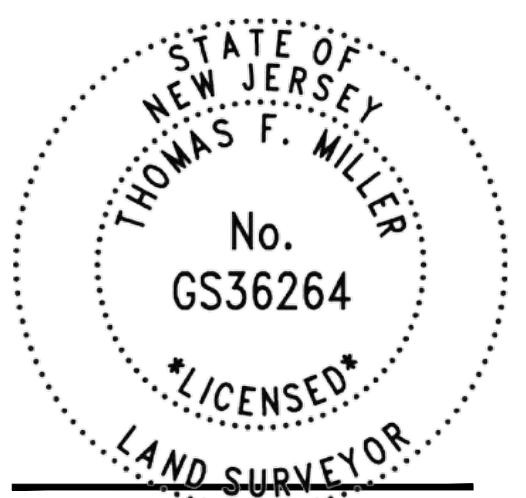
ROUTE SURVEY

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CITY OF SUMMIT
COUNTY OF UNION, STATE OF NEW JERSEY

I	9/23/2022	TDD	AG	8/19/2022	JD	FOR ISSUE
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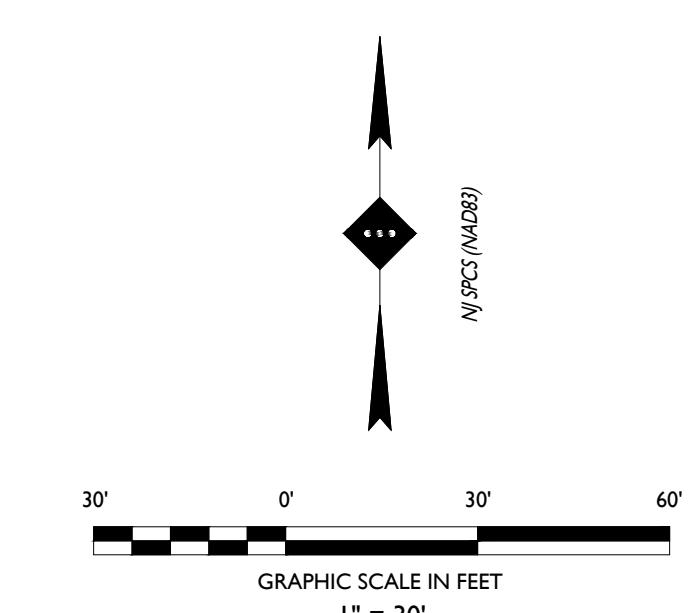
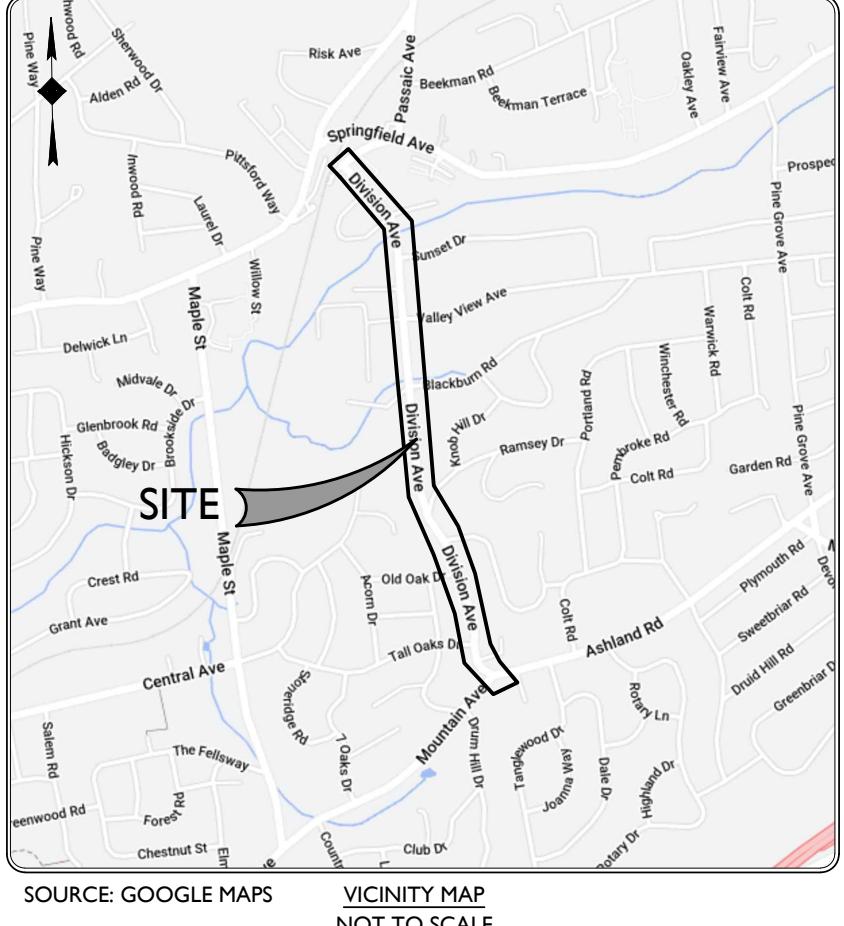
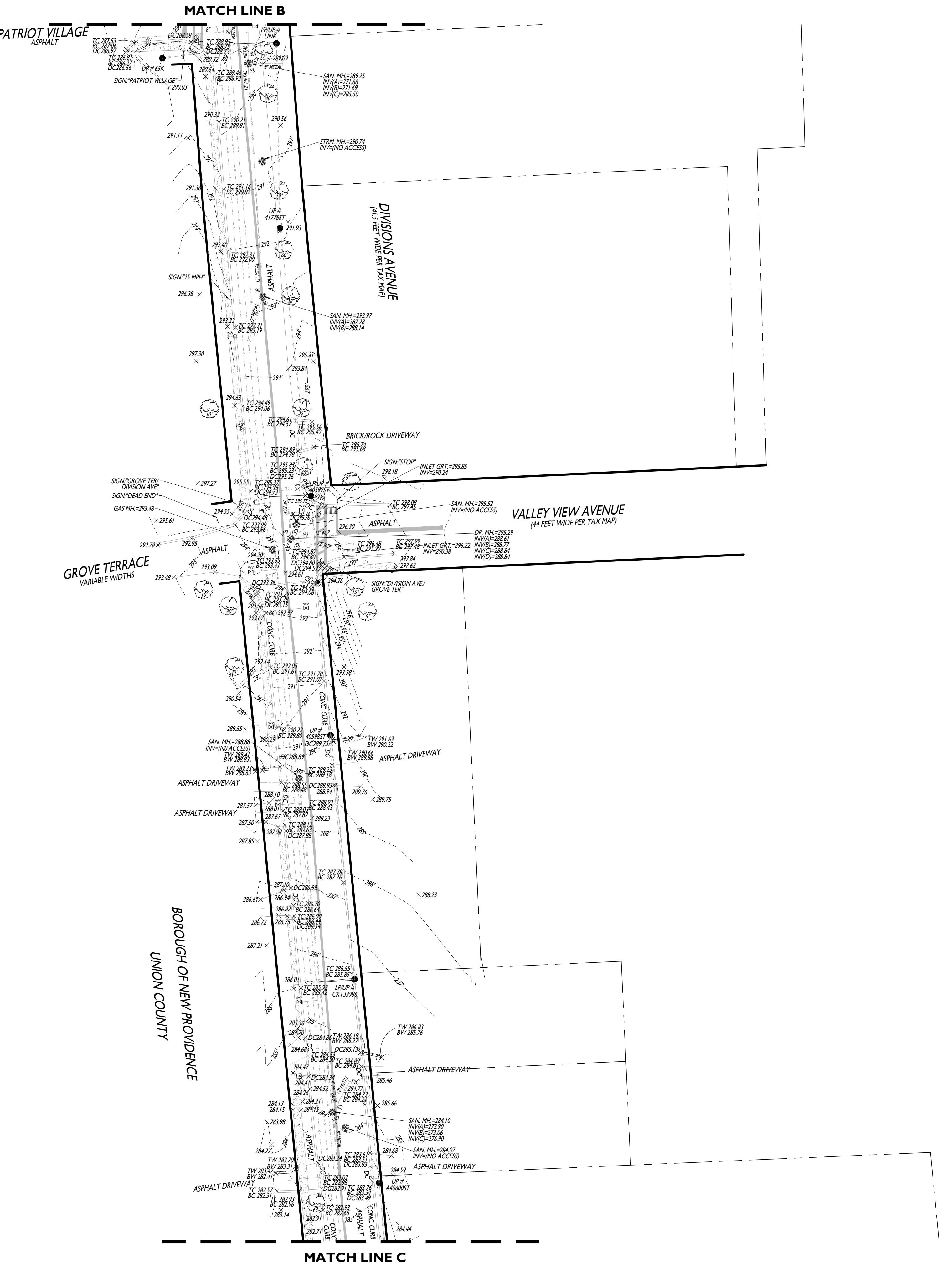
NEW JERSEY LAND SURVEYOR No. 24GS03626400
LICENSED PROFESSIONAL LAND SURVEYOR
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA28184500

SCALE: 1"=30' PROJECT ID: RUT-220009.09 SHEET: 5 OF 11



Know what's **below**
Call before you dig.

SYMBOL	DESCRIPTION
CONCRETE SIDEWALK / MAT	CONCRETE SIDEWALK / MAT
ASPHALT / CONCRETE CURB	ASPHALT / CONCRETE CURB
DEPRESSED CURB	DEPRESSED CURB
PROPERTY LINE	PROPERTY LINE
ADJACENT PROPERTY LINE	ADJACENT PROPERTY LINE
CHAIN LINK FENCE	CHAIN LINK FENCE
BOARD-ON-BOARD FENCE	BOARD-ON-BOARD FENCE
GUIDE RAIL	GUIDE RAIL
MAST ARM LIGHT POLE	MAST ARM LIGHT POLE
POLE	POLE
LIGHT POLE	LIGHT POLE
SIGNS	SIGNS
WATER VALVE	WATER VALVE
GAS VALVE	GAS VALVE
FIRE HYDRANT	FIRE HYDRANT
DRAIN	DRAIN
INLET	INLET
MAN HOLE	MAN HOLE
MONITORING WELL	MONITORING WELL
FIRE DEPARTMENT CONNECTION	FIRE DEPARTMENT CONNECTION
BOX (ELEC, GAS, ETC.)	BOX (ELEC, GAS, ETC.)
OVERHEAD WIRE	OVERHEAD WIRE
UNDERGROUND GAS LINE	UNDERGROUND GAS LINE
UNDERGROUND WATER LINE	UNDERGROUND WATER LINE
MAJOR CONTOUR	MAJOR CONTOUR
MINOR CONTOUR	MINOR CONTOUR
GRADE SPOT SHOT	GRADE SPOT SHOT
TOP OF CURB SHOT	TOP OF CURB SHOT
BOTTOM OF CURB SHOT	BOTTOM OF CURB SHOT
TOP OF WALL SHOT	TOP OF WALL SHOT
BOTTOM OF WALL SHOT	BOTTOM OF WALL SHOT
ELEC METER	ELEC METER
GAS METER	GAS METER
WATER METER	WATER METER
DECIDUOUS TREE - DIAMETER NOTED	DECIDUOUS TREE - DIAMETER NOTED
CLEAN OUT	CLEAN OUT
IRON PIN	IRON PIN
BENCH MARK	BENCH MARK
DETECTABLE WARNING STRIP	DETECTABLE WARNING STRIP



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ROUTE SURVEY

MAP OF SURVEY OF:

DIVISIONS AVENUE
CITY OF SUMMIT
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I	9/23/2022	TDD	AG	8/19/2022	JD	FOR ISSUE
ISSUE	DATE	DRAFT BY	CHECK BY	FIELD DATE	FIELD CREW	DESCRIPTION

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No. GS36264
LICENCED*
LAND SURVEYOR

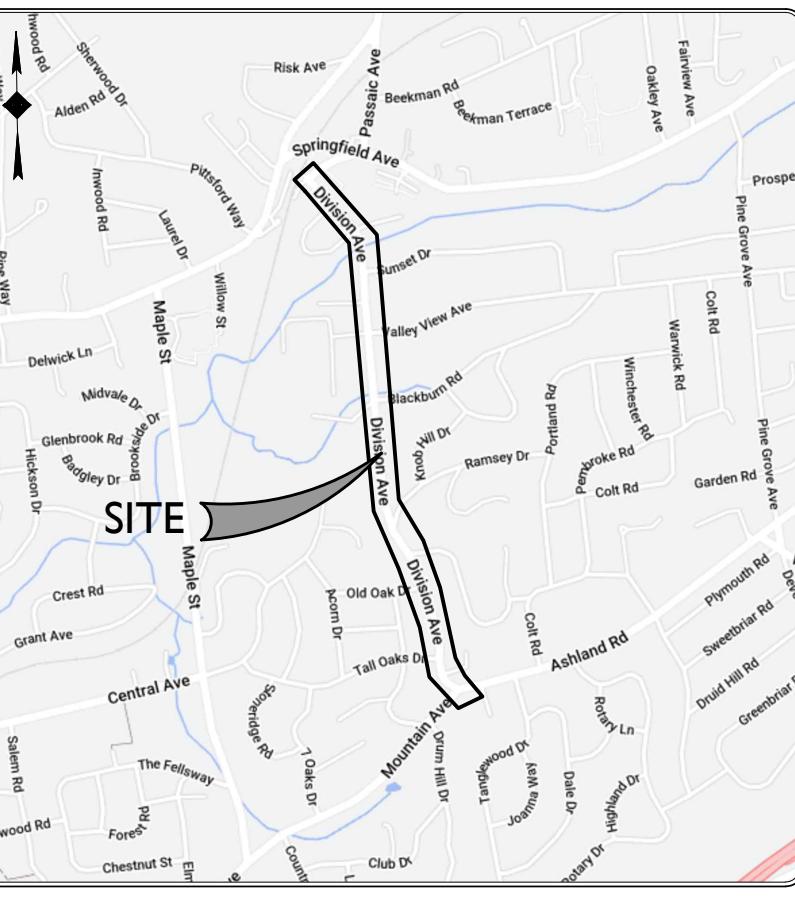
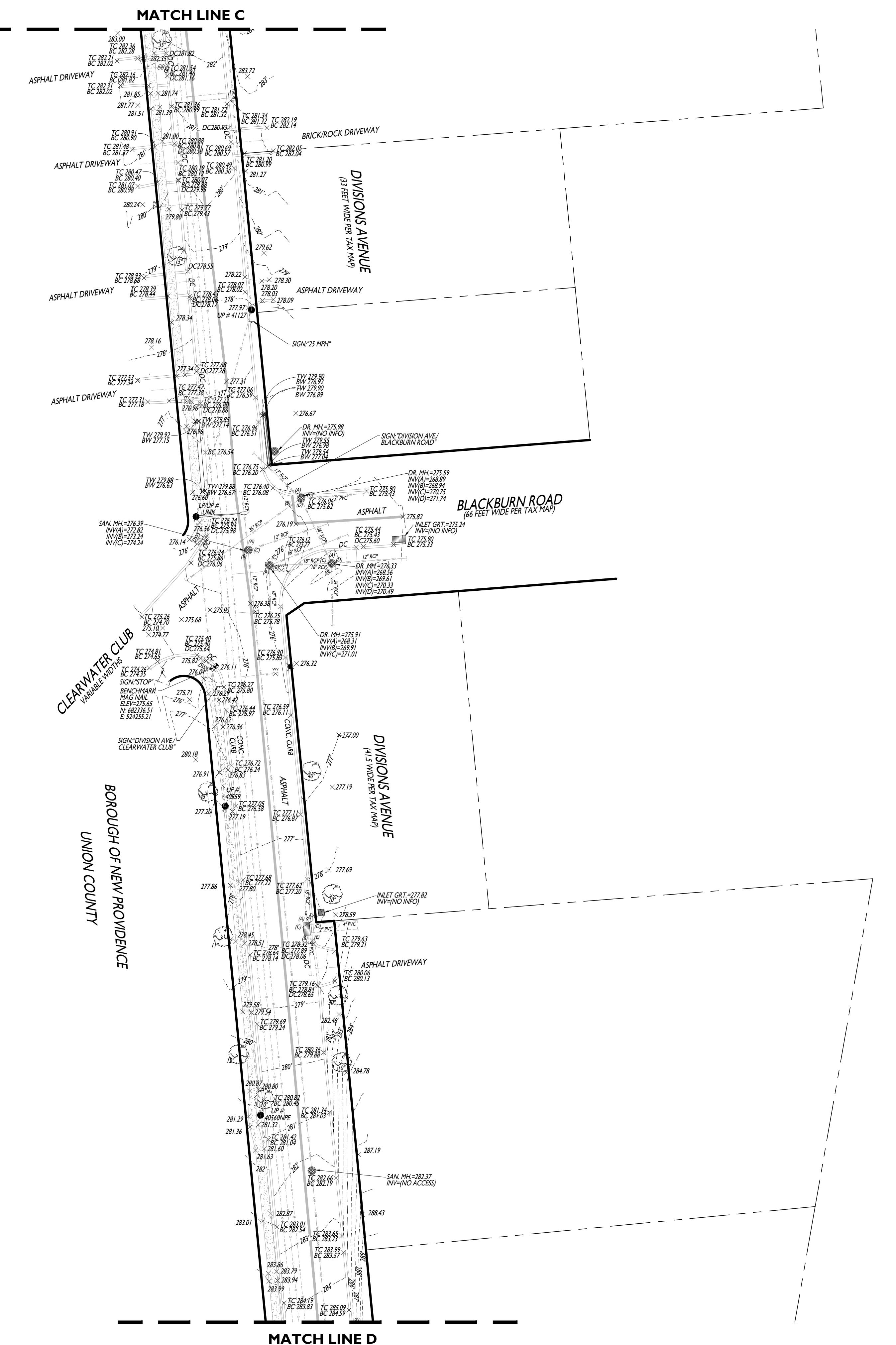
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NEW JERSEY LAND SURVEYOR No. 24GS03626400
LICENSED PROFESSIONAL LAND SURVEYOR
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA28184500

SCALE: 1"=30' PROJECT ID: RUT-220009.09 SHEET: 6 OF 11

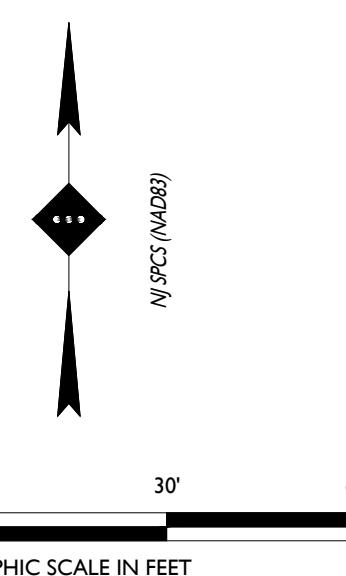


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SYMBOL	DESCRIPTION
	BUILDING
	CONCRETE SIDEWALK / MAT
	ASPHALT / CONCRETE CURB
	DEPRESSED CURB
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	CHAIN LINK FENCE
	BOARD-ON-BOARD FENCE
	GUIDE RAIL
	MAST ARM LIGHT POLE
	POLE
	LIGHT POLE
	SIGNS
	WATER VALVE
	GAS VALVE
	FIRE HYDRANT
	DRAIN
	INLET
	MAN HOLE
	MONITORING WELL
	FIRE DEPARTMENT CONNECTION
	BOX (ELEC, GAS, ETC.)
	OVERHEAD WIRE
	UNDERGROUND GAS LINE
	UNDERGROUND WATER LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	GRADE SPOT SHOT
	TOP OF CURB SHOT
	BOTTOM OF CURB SHOT
	TOP OF WALL SHOT
	BOTTOM OF WALL SHOT
	ELEC METER
	GAS METER
	WATER METER
	DECIDUOUS TREE - DIAMETER NOTED
	CLEAN OUT
	IRON PIN
	BENCH MARK
	DETECTABLE WARNING STRIP
	D.W.S.



SOURCE: GOOGLE MAPS [VICINITY MAP](#)
NOT TO SCALE



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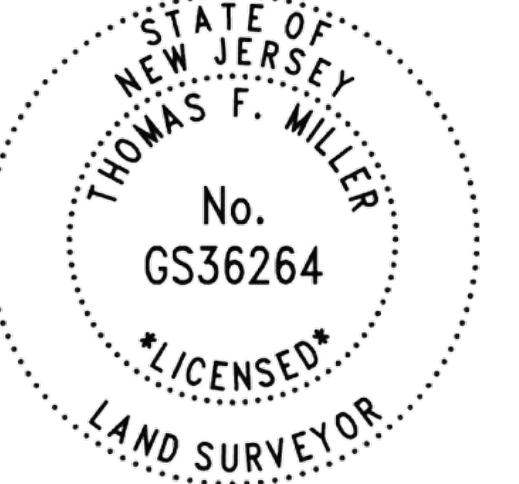
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ROUTE SURVEY

MAP OF SURVEY OF:

**DIVISIONS AVENUE
CITY OF SUMMIT
COUNTY OF UNION, STATE OF NEW JERSEY**

SUBJECT TO RESTRICTIONS, EASEMENTS OF RECORD AND OTHER FACTS WHICH A CURRENT TITLE SEARCH MIGHT DISCLOSE.



THOMAS F. MILLER

**NEW JERSEY LAND SURVEYOR No. 24GS03626400
LICENSING BOARD OF PROFESSIONAL LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION NO. 24GS03626400**

CERTIFICATE OF AUTHORIZATION No. 24GA28184500

Page 1 of 1

SCALE: 1"=30' PROJECT ID: RUT-220009.09 SHEET: 7 OF 11

SCALE: 1-50 PROJECT ID: R01-220007.07 SHEET: 7 OF 11

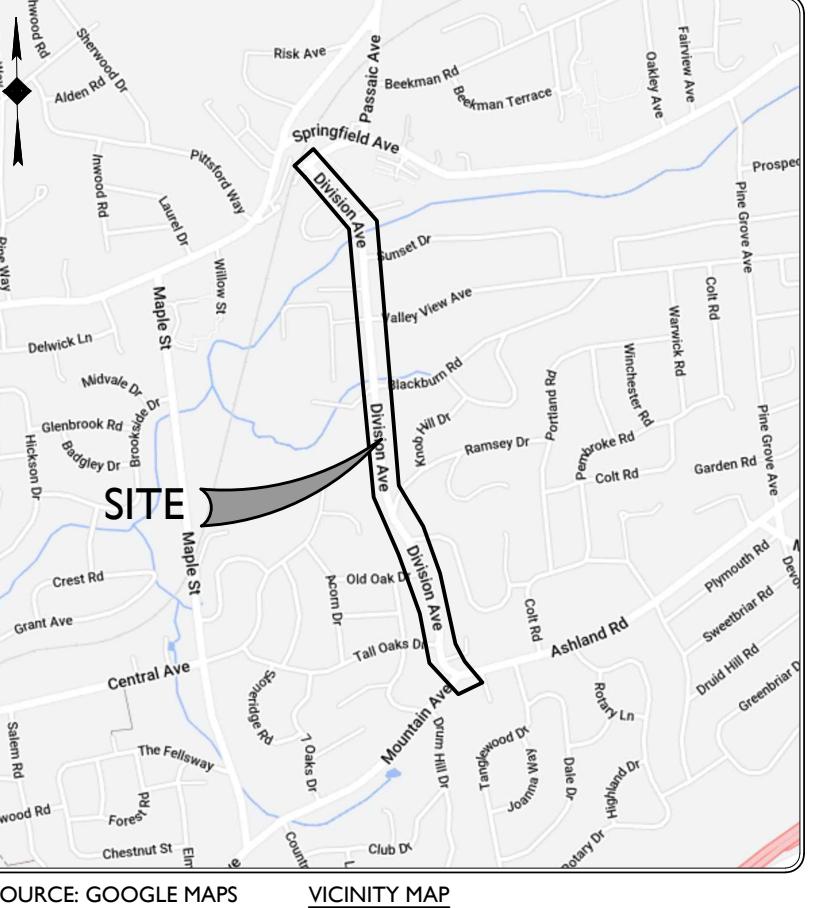
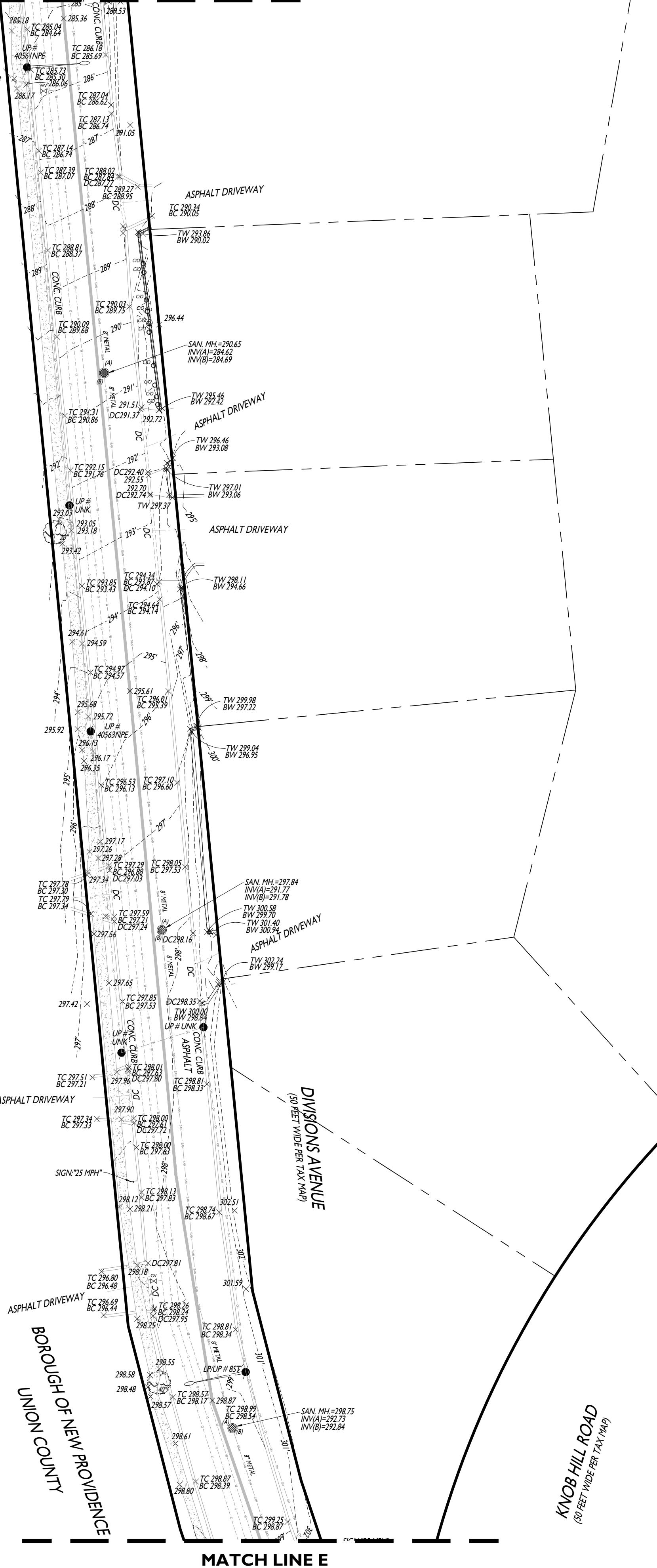
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MATCH LINE D



SOURCE: GOOGLE MAPS VICINITY MAP
NOT TO SCALE



0' 30' 60'

GRAPHIC SCALE IN FEET

1" ≡ 30'

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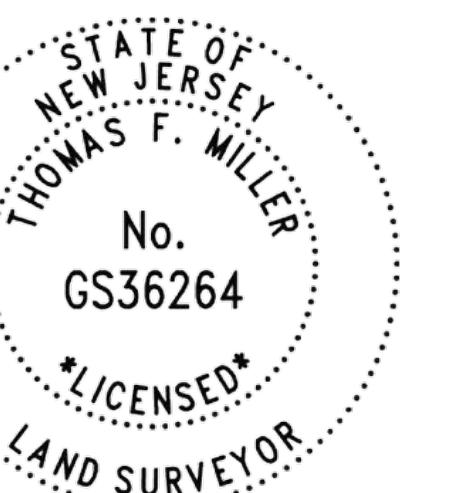
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ROUTE SURVEY

MAP OF SURVEY OF:

**DIVISIONS AVENUE
CITY OF SUMMIT
COUNTY OF UNION, STATE OF NEW JERSEY**

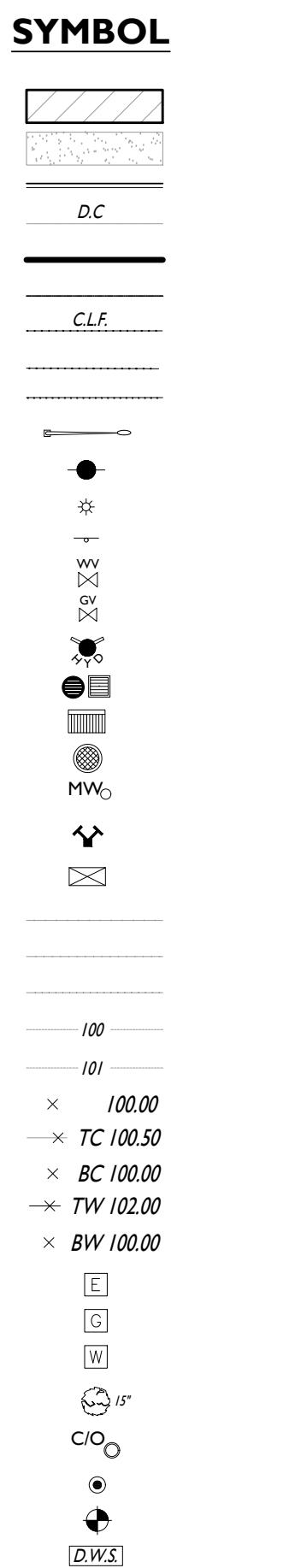
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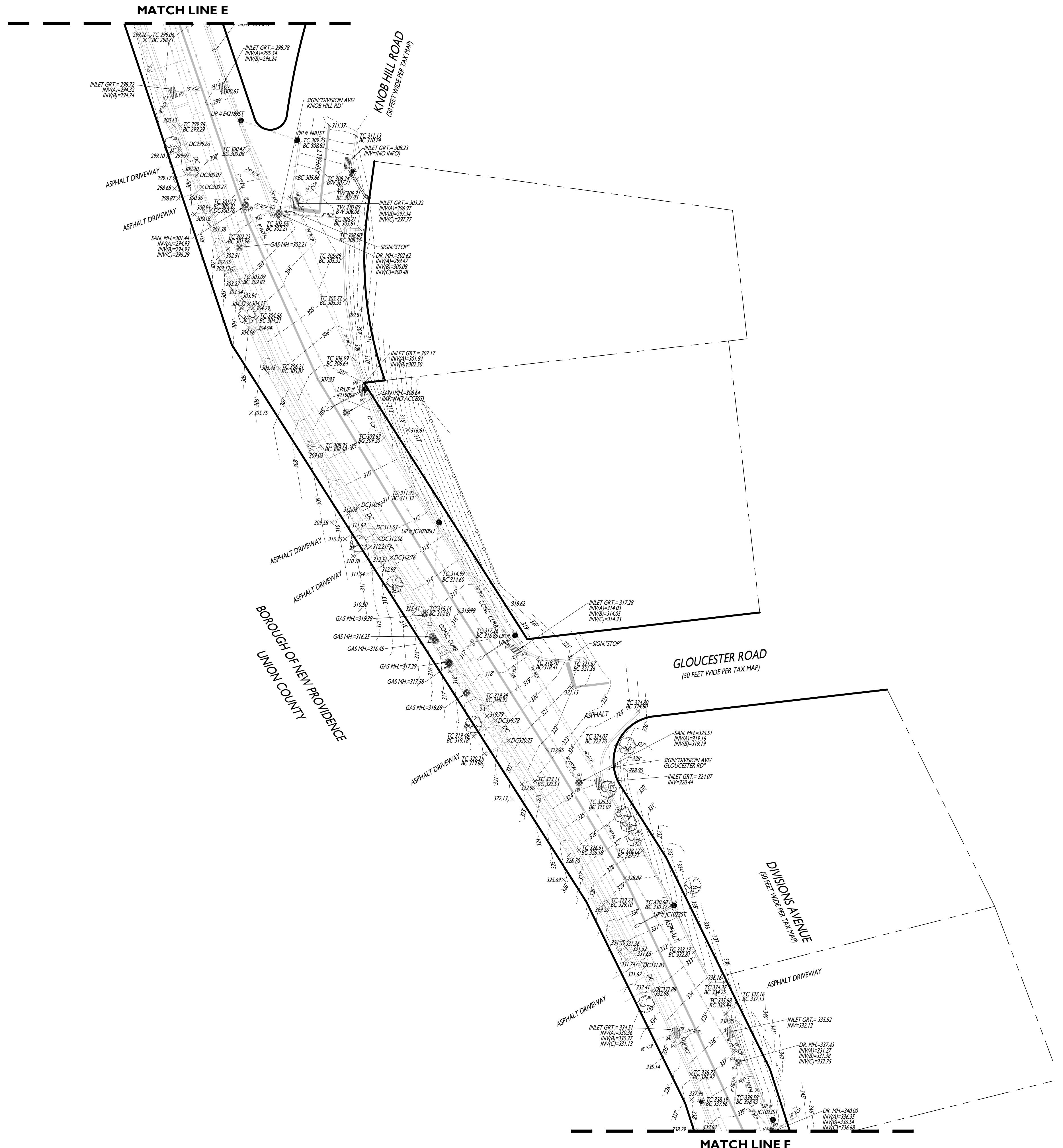
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LICENSED PROFESSIONAL LAND SURVEYOR
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 21CA28184500

SCALE: 1"=30' PROJECT ID: BJT-220009.09 SHEET: 8 OF 11

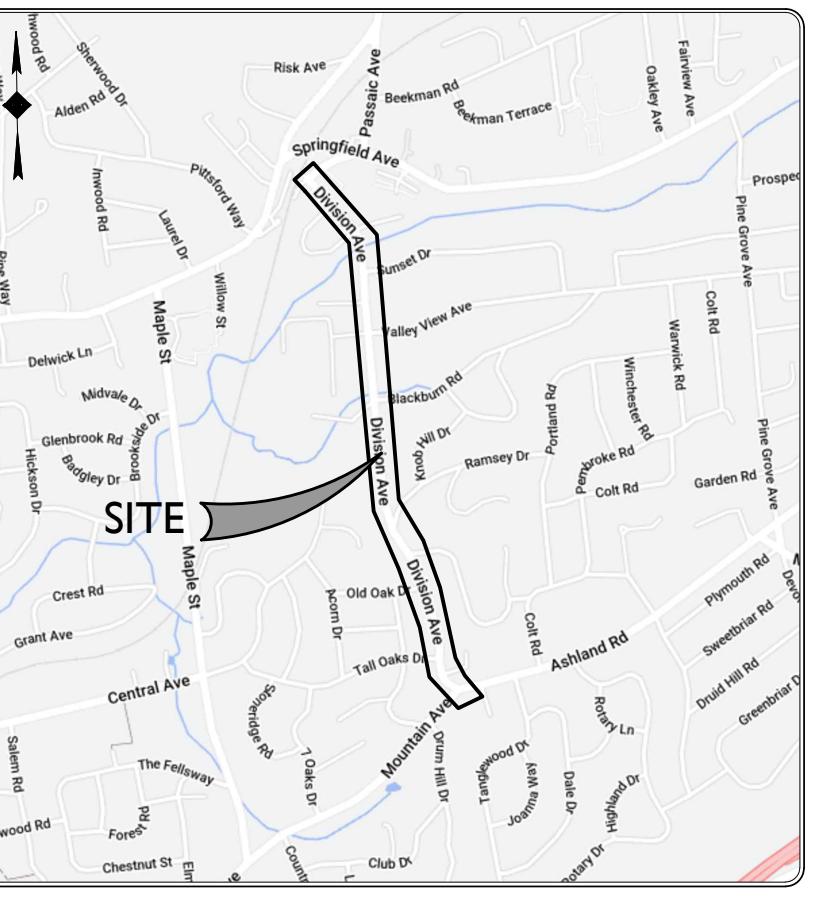


DESCRIPTION

BUILDING
CONCRETE SIDEWALK / MAT
ASPHALT / CONCRETE CURB
DEPRESSED CURB
PROPERTY LINE
ADJACENT PROPERTY LINE
CHAIN LINK FENCE
BOARD-ON-BOARD FENCE
GUIDE RAIL
MAST ARM LIGHT POLE
POLE
LIGHT POLE
SIGNS
WATER VALVE
GAS VALVE
FIRE HYDRANT
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MINOR CONTOUR
GRADE SPOT SHOT
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BOTTOM OF CURB SHOT
TOP OF WALL SHOT
BOTTOM OF WALL SHOT
ELEC METER
GAS METER
WATER METER
DECIDUOUS TREE - DIAMETER NOTED
CLEAN OUT
IRON PIN
BENCH MARK
DETECTABLE WARNING STRIP



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SOURCE: GOOGLE MAPS [VICINITY MAP](#) [NOT TO SCALE](#)



A horizontal graphic scale bar consisting of a series of black and white squares. The first 12 squares are labeled '0' above them, and the next 12 squares are labeled '30' above them. Below the scale bar, the text 'GRAPHIC SCALE IN FEET' is centered, and below that, '1" = 20' is also centered.

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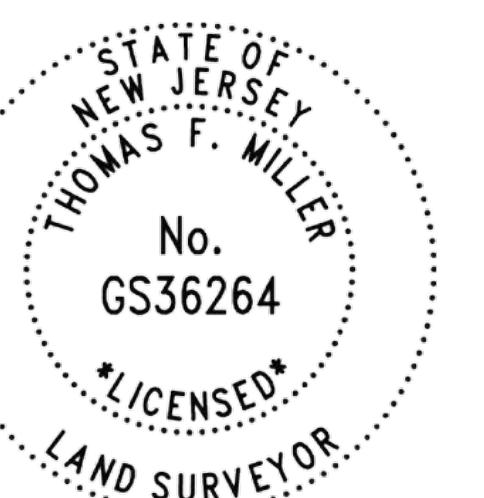
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ROUTE SURVEY

MAP OF SURVEY OF:

**DIVISIONS AVENUE
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COUNTY OF UNION, STATE OF NEW JERSEY**

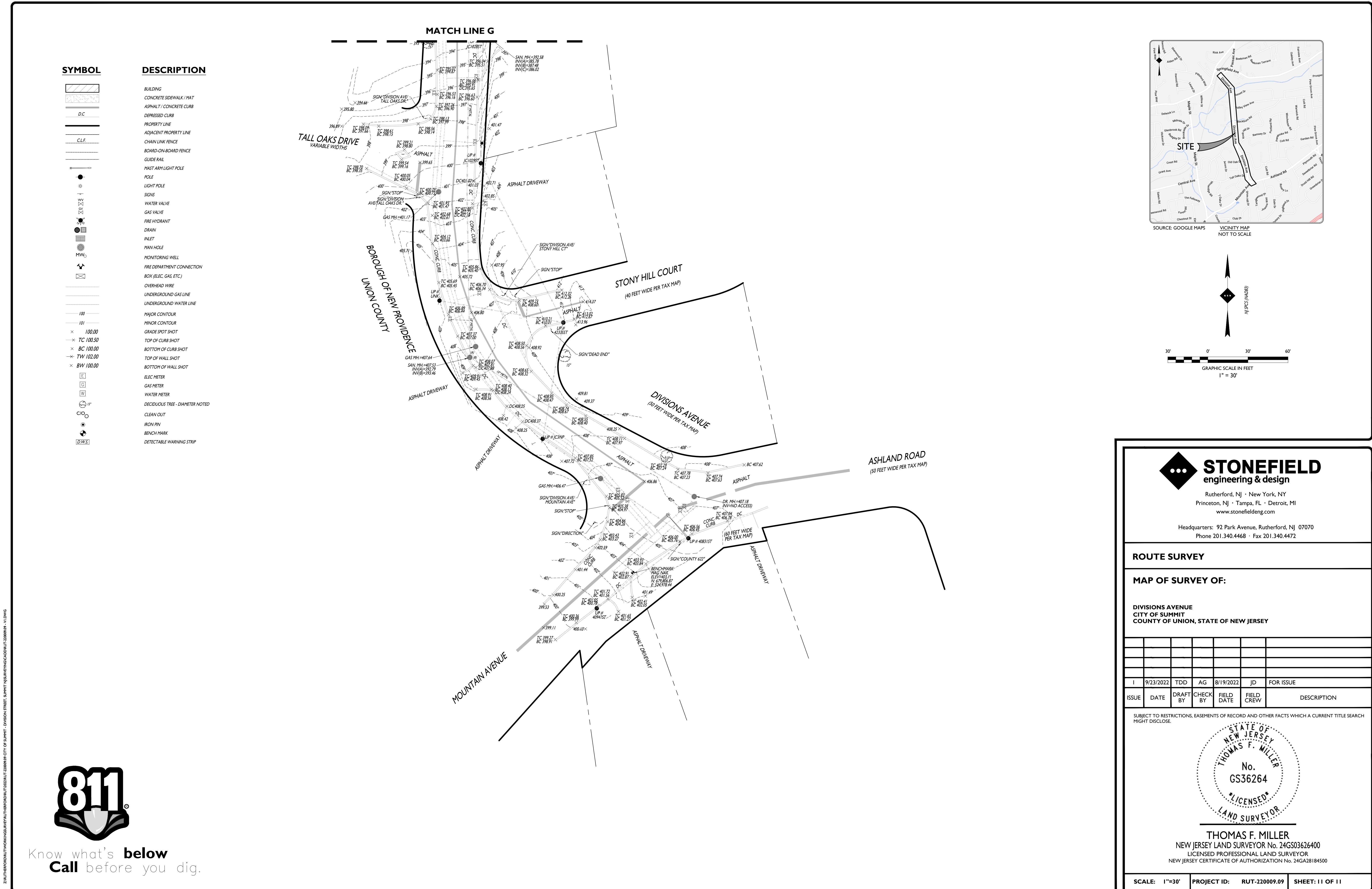
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NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA28184500

SCALE: 1"=30' PROJECT ID: BJT-220009.09 SHEET: 9 OF 11



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