

E. ROSE VALLEY PEDESTRIAN WALKWAY IMPROVEMENTS

HIGHWAY OCCUPANCY PLANS (#233978)

PRELIMINARY

NETHER PROVIDENCE TOWNSHIP
DELAWARE COUNTY, PENNSYLVANIA

COMPANY: CHESTER WATER AUTHORITY
ADDRESS: 401 FULTON STREET
PO BOX 467
CHESTER, PA. 19013
GENERAL NUMBER: (610) 876-8181
CONTACT: VITO PAGANO
EMAIL: VITO.PAGANO@CHESTERWATER.COM

COMPANY: COMCAST
ADDRESS: 110 SPRINGBROOKE BOULEVARD
ASTON, PA. 19010
GENERAL NUMBER: (800) 266-2278
CONTACT: RICH KAIN
EMAIL: RICHARD_KAIN@CABLE.COMCAST.COM

COMPANY: AQUA PENNSYLVANIA
ADDRESS: 762 W LANCASTER AVENUE
BRYN MAWR, PA. 19010
GENERAL NUMBER: (877) 987-2782
CONTACT: JAMES THORNTON
EMAIL: JDTHORNTON@AQUAAMERICA.COM

COMPANY: BUCKEYE PARTNERS
ADDRESS: FIVE TEK PARK
9999 HAMILTON BLVD
BREINIGSVILLE, PA. 18031
GENERAL NUMBER: (610) 904-4000
CONTACT: DAVE JONES
EMAIL: DAJONES@BUCKEYE.COM

COMPANY: CATANIA ENGINEERING ASSOCIATES INC
ADDRESS: 520 W MACDADE BLVD
MILMONT PARK, PA. 19033
GENERAL NUMBER: (610) 532-2884
CONTACT: CHARLES CATANIA
EMAIL: CDCA@CATANIAENGINEERING.COM

COMPANY: PECO ENERGY C/O USIC
ADDRESS: 450 S HENDERSON RD SUITE B
KING OF PRUSSIA, PA. 19406
GENERAL NUMBER: (484) 681-5720
CONTACT: NIKKIA SIMPKINS
EMAIL: NIKKIA.SIMPKINS@USICLLC.COM

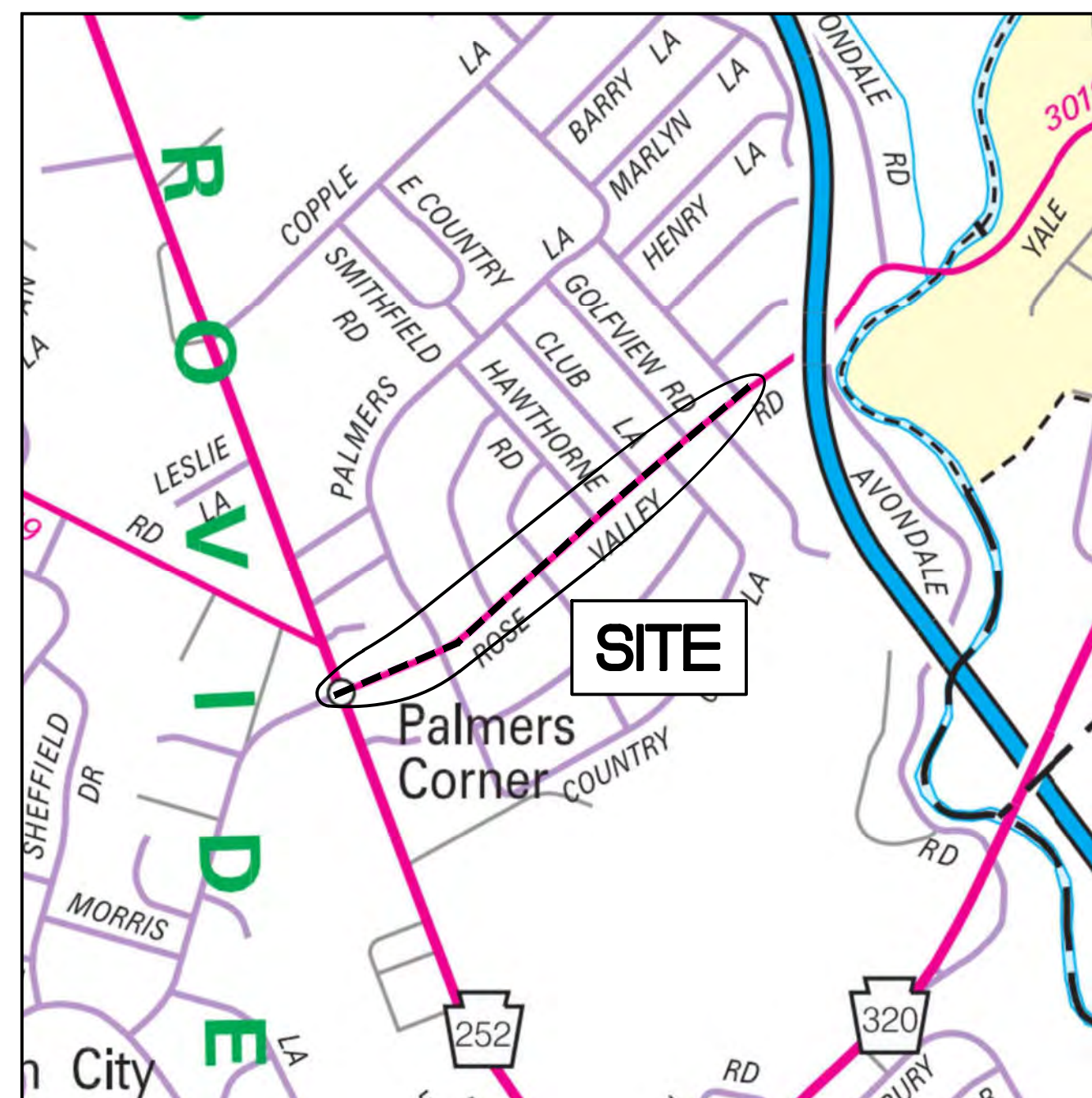
COMPANY: MONROE ENERGY LLC
ADDRESS: 920 CHERRY TREE RD
ASTON, PA. 19014
GENERAL NUMBER: (610) 485-3709
CONTACT: CAROLINE KERR
EMAIL: CAROLNE.KERR@MONROE-ENERGY.COM

COMPANY: NETHER PROVIDENCE TOWNSHIP
ADDRESS: 214 SYKES LN
WALLINGFORD, PA. 19086
GENERAL NUMBER: (610) 566-4516
CONTACT: DARRYL DIXON
EMAIL: DDIXON@NETHERPROVIDENCE.ORG

COMPANY: ENERGY TRANSFER
ADDRESS: 1300 MAIN ST
HOUSTON, TX. 77002
GENERAL NUMBER: (713) 989-7000
CONTACT: CELESTE WATERWALL
EMAIL: CELESTE.WATERWALL@ENERGYTRASFER.COM

COMPANY: SHELL APPALACHIA
ADDRESS: 12880 RT 6
WELLSBORO, PA. 16901
GENERAL NUMBER: (570) 662-9415
CONTACT: ED JAMES JEANES
EMAIL: KATE_N_ED@YAHOO.COM

COMPANY: VERIZON PENNSYLVANIA LLC
ADDRESS: 1050 VIRGINIA DR
FORT WASHINGTON, PA. 19033
GENERAL NUMBER: (856) 805-5200
CONTACT: DARLINE LEPPERD JOHNSON




LOCATION MAP
SCALE: 1" = 800'

TRAFFIC DATA: E. ROSE VALLEY ROAD – OSBORNE RD. TO PROVIDENCE RD.

FUNCTIONAL CLASS	–	MAJOR COLLECTOR
CURRENT YEAR ADT	–	5,355 (05–15–2019)
DHV	–	482
DDHV	–	255
D	–	53%
K	–	9%
TRUCK %	–	5%

PA ONE CALL No. 20210412103
CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE – STOP CALL 8-1-1

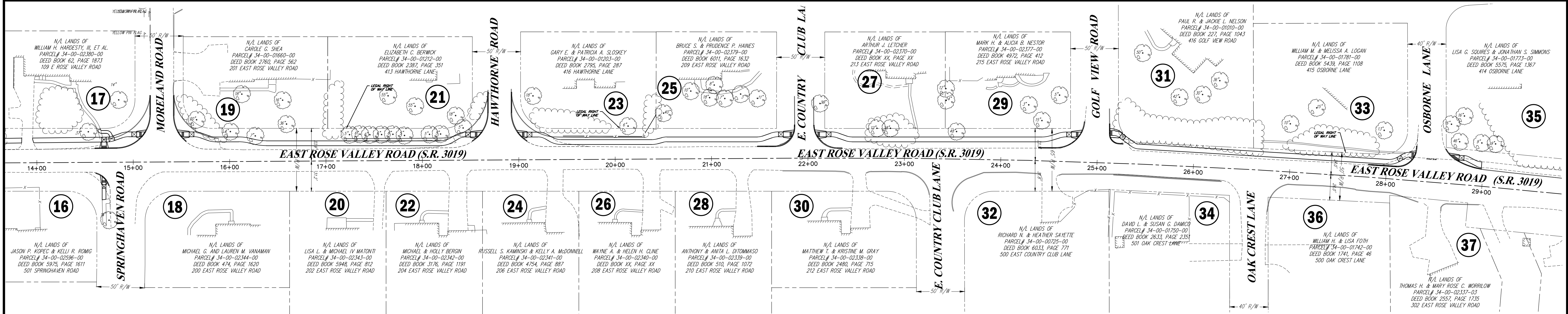
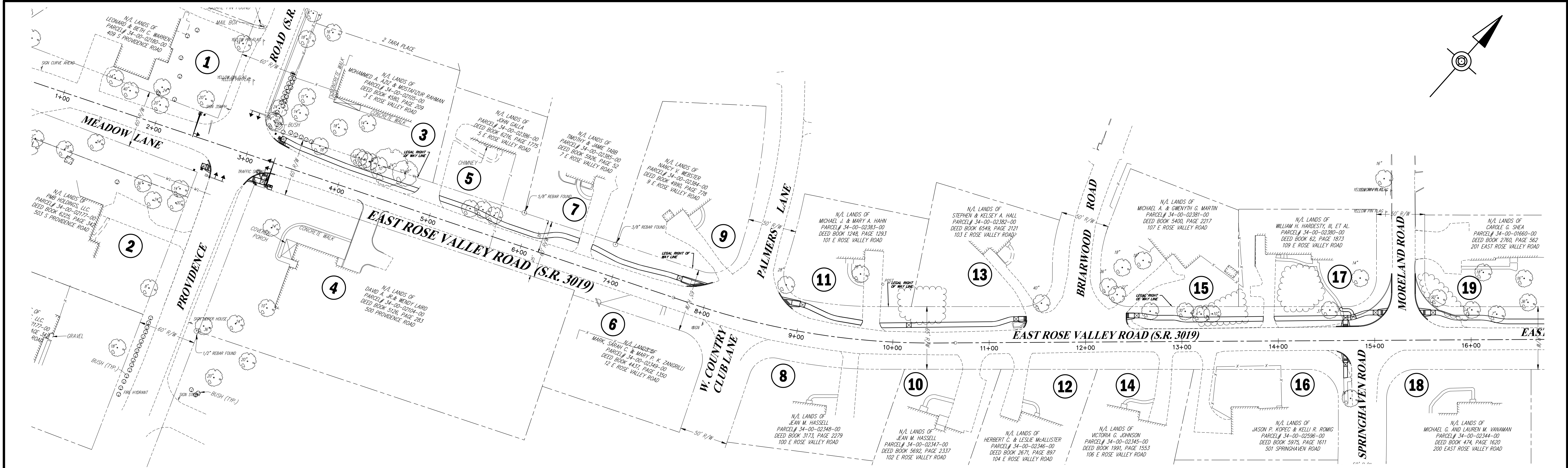
Pennsylvania One Call System, Inc.

 1-800-242-1776
8-1-1 (WITHIN PA.)

THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT PA ONE-CALL AT 811 AT LEAST 3-DAYS BEFORE PROCEEDING WITH ANY EXCAVATION. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE FIELD LOCATIONS OF ALL EXISTING UNDERGROUND AND AERIAL UTILITIES FROM BOTH THE UTILITY COMPANIES AND/OR BY TEST PITS PRIOR TO BEGINNING WORK. ALL UTILITY SERVICES WITHIN THE LIMITS OF WORK MUST ALSO BE FIELD LOCATED PRIOR TO EXCAVATION WORK. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL PREVENTIVE MEASURES TO PROTECT THE LINES IN ACCORDANCE WITH THE PA ONE-CALL ACT.

SHEET INDEX

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UNFORESEEN EROSION CONDITIONS

1. SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT. STOCKPILES OF WOODCHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
2. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL RESOURCES, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
3. PROTECTION TO EXISTING TREES AND SHRUBS SHALL BE TAKEN BY THE CONTRACTOR TO ELIMINATE UNNECESSARY DAMAGE.

MAINTENANCE PROGRAM

1. INSPECT EROSION CONTROL MEASURES MINIMUM WEEKLY AND AFTER EACH SUBSTANTIAL RAINFALL. REPAIR/REPLACE AS REQUIRED.
2. MAINTAIN CONSTRUCTION ENTRANCE. ADD NEW STONE AS REQUIRED.
3. KEEP ALL ROADWAYS, ADJACENT PROPERTIES, AND WATER COURSES FREE FROM ALL DEBRIS, DROPPINGS AND SEDIMENT. IMMEDIATELY REMOVE ANY SUCH OCCURRENCES.
4. ALL AREAS WHICH HAVE ERODED SHALL BE FILLED, COMPACTED, SEEDED AND MULCHED IMMEDIATELY.

NOTES FOR DIRECT-BURIED CONDUIT

1. TRENCH ALONG THE GENERAL LINE SHOWN ON THE PLANS.
2. LOCATE DIRECT BURIAL CONDUIT WITH TEMPORARY PLASTIC MARKERS OR OTHER APPROVED METHODS WHERE THERE IS A POSSIBILITY OF DISTURBANCE BY GUIDE RAIL ERECTION OR SIMILAR CONSTRUCTION.
3. HAVE ALTERNATE TRENCH LINES, OTHER THAN AS SHOWN ON THE PLANS, APPROVED BY THE ENGINEER. IN NO CASE APPROVE AN ALTERNATE TRENCH LINE WHICH RESULTS IN INCREASING THE CIRCUIT LENGTH MORE THAN 5%.
4. PROVIDE PERMANENT MARKING TAPE IN THE LAST LIFT FOR THE ENTIRE TRENCH LENGTH.

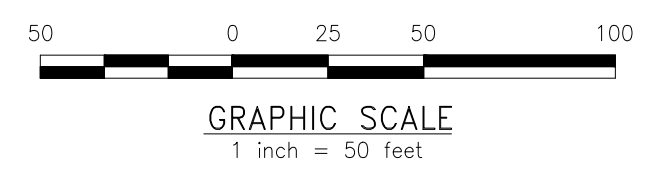
RIGHT OF WAY NOTES

1. THE RIGHT OF WAY OF 50' ON E. ROSE VALLEY ROAD (SR 3019)(LR 23070), IS BASED UPON PADOT FORM 989 (R-4-11-47), ROAD DOCKET No. 3, PAGE 440, LAST REVISED 8/28/1958, FROM THE INTERSECTION OF AVONDALE ROAD TO A POINT AT THE EAST END OF CRUM CREEK BRIDGE, FROM S.L.D. STATION 66+67 TO S.L.D. STATION EQUALITY 70+29 BACK 46+67 AHEAD.
2. THE RIGHT OF WAY OF 60' ON PROVIDENCE ROAD (SR 252)(LR 421), IS BASED UPON PADOT FORM 989 (R-8-19-31), LAST REVISED 9/4/1940, FROM THE INTERSECTION WITH LR 225 AT PLEASANT HILL TO THE INTERSECTION WITH MONROE STREET AND STATE ROAD (LR 23061), FROM ORIGINAL STATION 0+00 TO ORIGINAL STATION 185+76.

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3	7/30/21	3rd HOP SUBMISSION	J.A.R.	G.J.C.F.
2	5/21/21	2nd HOP SUBMISSION	J.A.R.	G.J.C.F.
1	3/19/21	1st HOP SUBMISSION	J.A.R.	G.J.C.F.

NO.	DATE	REVISION	DWN. BY	CHK. BY



CATANIA ENGINEERING ASSOCIATES, INC.
 520 WEST MADRADE BLVD.
 MILMONT PARK, PA. 19033
 TEL. (610) 532-2884
 FAX. (610) 532-2923
 EMAIL: office10@cataniaengineering.com

HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978

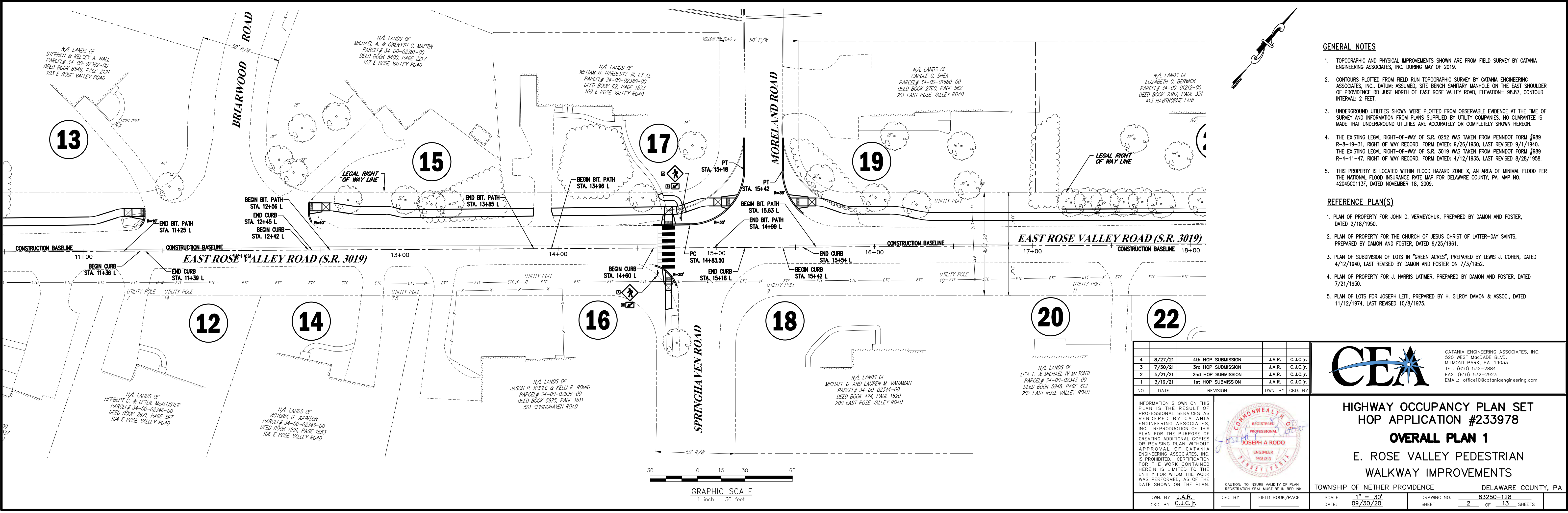
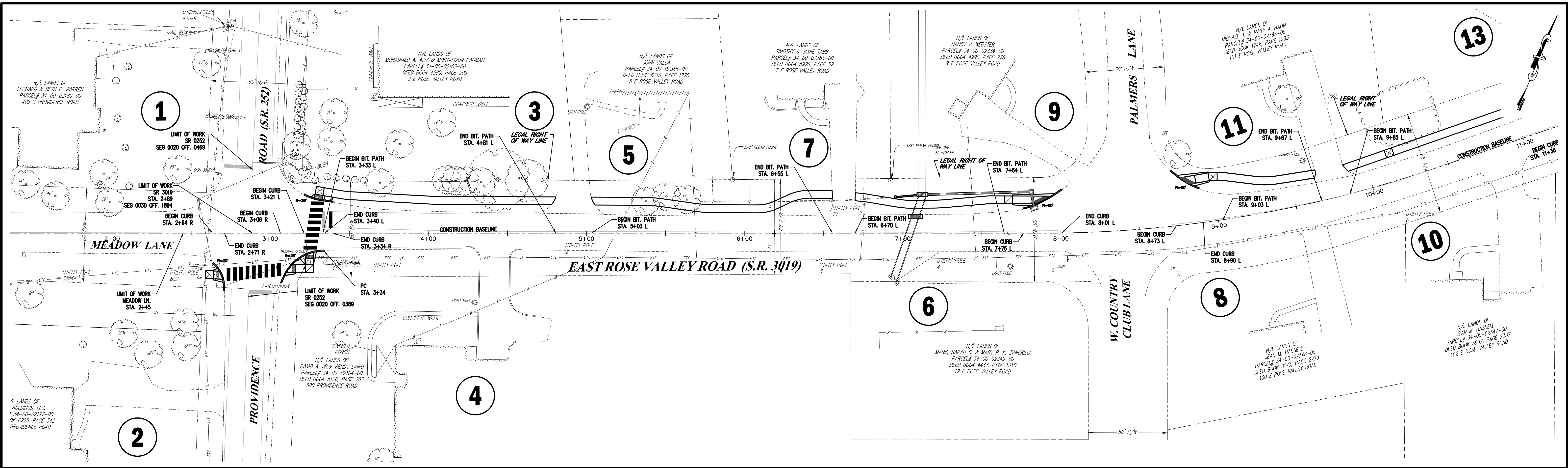
INDEX PLAN

E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

SCALE: 1" = 50'
 DATE: 09/30/20

DRAWING NO. 83250-128
 SHEET 1 OF 13 SHEETS



- GENERAL NOTES**
- TOPOGRAPHIC AND PHYSICAL IMPROVEMENTS SHOWN ARE FROM FIELD SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. DURING MAY OF 2019.
 - CONTOURS PLOTTED FROM FIELD SURVEY TOPOGRAPHIC SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. DATUM ASSUMED, SITE BENCH SANITARY MANHOLE ON THE EAST SHOULDER OF PROVIDENCE RD JUST NORTH OF EAST ROSE VALLEY ROAD, ELEVATION= 98.87, CONTOUR INTERVAL= 2 FEET.
 - UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREON.
 - THE EXISTING LEGAL RIGHT-OF-WAY OF S.R. 0252 WAS TAKEN FROM PENNDOT FORM #989 R-8-19-31, RIGHT OF WAY RECORD, FORM DATED: 9/26/1930, LAST REVISED 9/1/1940. THE EXISTING LEGAL RIGHT-OF-WAY OF S.R. 3019 WAS TAKEN FROM PENNDOT FORM #989 R-4-11-47, RIGHT OF WAY RECORD, FORM DATED: 4/12/1935, LAST REVISED 8/28/1958.
 - THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD ZONE X, AN AREA OF MINIMAL FLOOD PER THE NATIONAL FLOOD INSURANCE RATE MAP FOR DELAWARE COUNTY, PA. MAP NO. 4204500113F, DATED NOVEMBER 18, 2009.

- REFERENCE PLAN(S)**
- PLAN OF PROPERTY FOR JOHN D. VERMEYCHUK, PREPARED BY DAMON AND FOSTER, DATED 2/18/1950.
 - PLAN OF PROPERTY FOR THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, PREPARED BY DAMON AND FOSTER, DATED 9/25/1961.
 - PLAN OF SUBMISSION OF LOTS IN "GREEN ACRES", PREPARED BY LEWIS J. COHEN, DATED 4/12/1940, LAST REVISED BY DAMON AND FOSTER ON 7/3/1952.
 - PLAN OF PROPERTY FOR J. HARRIS LATIMER, PREPARED BY DAMON AND FOSTER, DATED 7/21/1950.
 - PLAN OF LOTS FOR JOSEPH LEITZ, PREPARED BY H. GILROY DAMON & ASSOC., DATED 11/12/1974, LAST REVISED 10/8/1975.

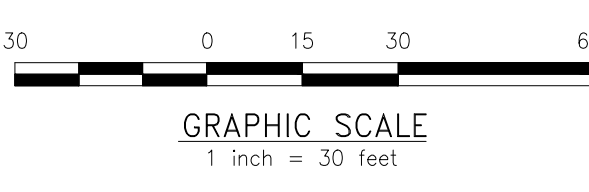
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**HIGHWAY OCCUPANCY PLAN SET
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 WALKWAY IMPROVEMENTS**

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

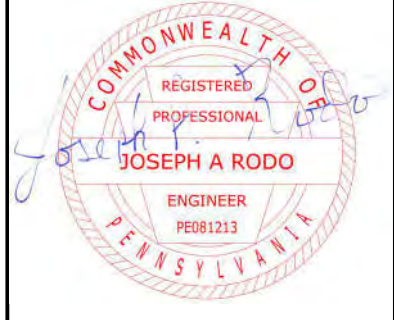
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 SHEET 2 OF 13 SHEETS

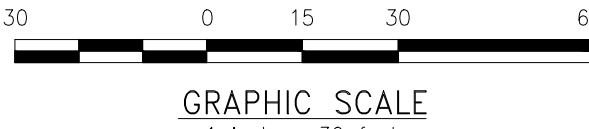
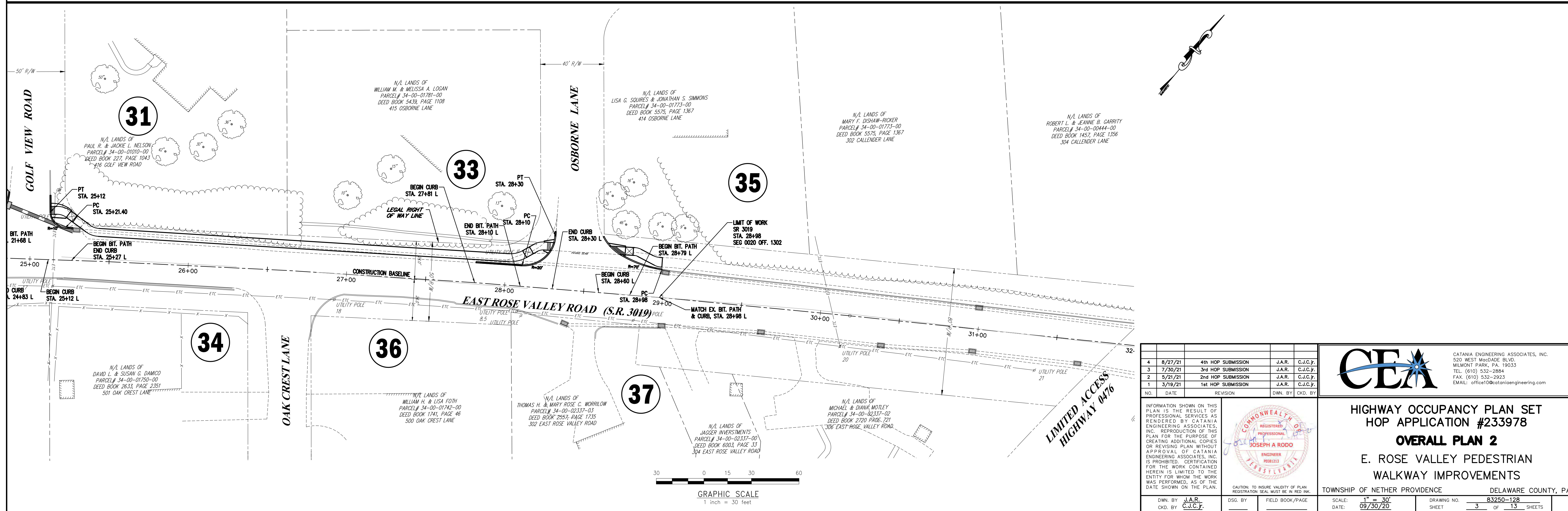
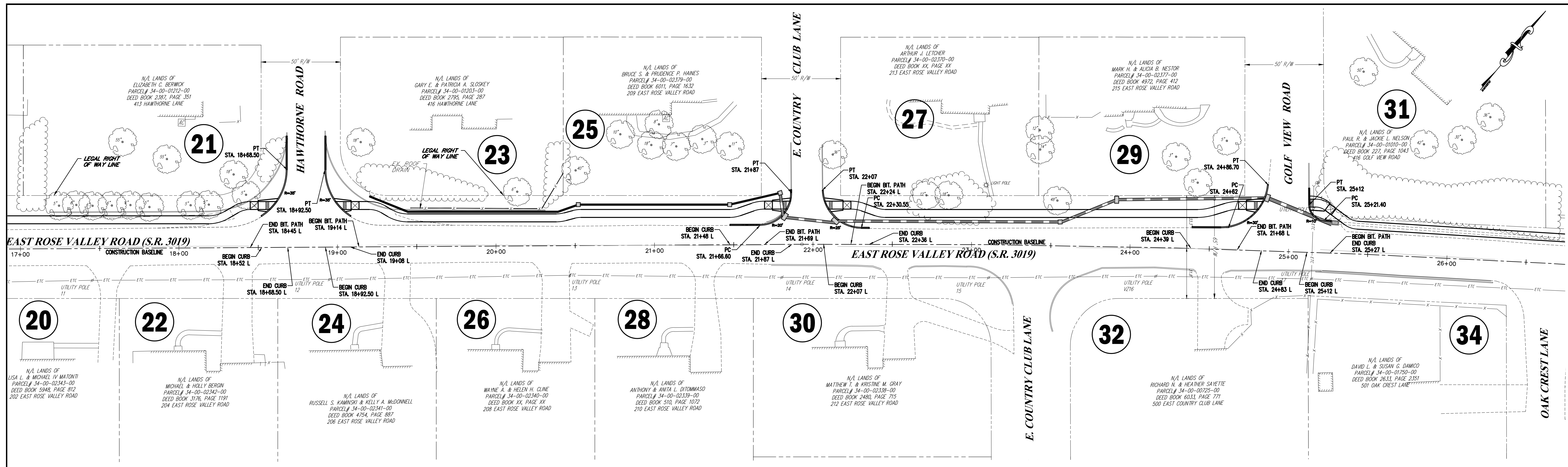


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DWN. BY J.A.R.
 CHK. BY C.J.C.F.

DSC. BY FIELD BOOK/PAGE





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FIELD BOOK/PAGE: _____

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**HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978
OVERALL PLAN 2
E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS**

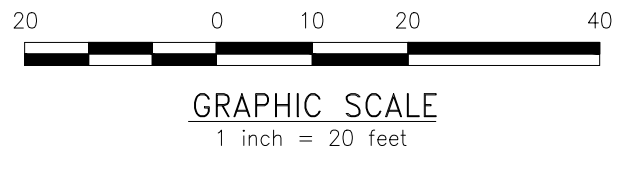
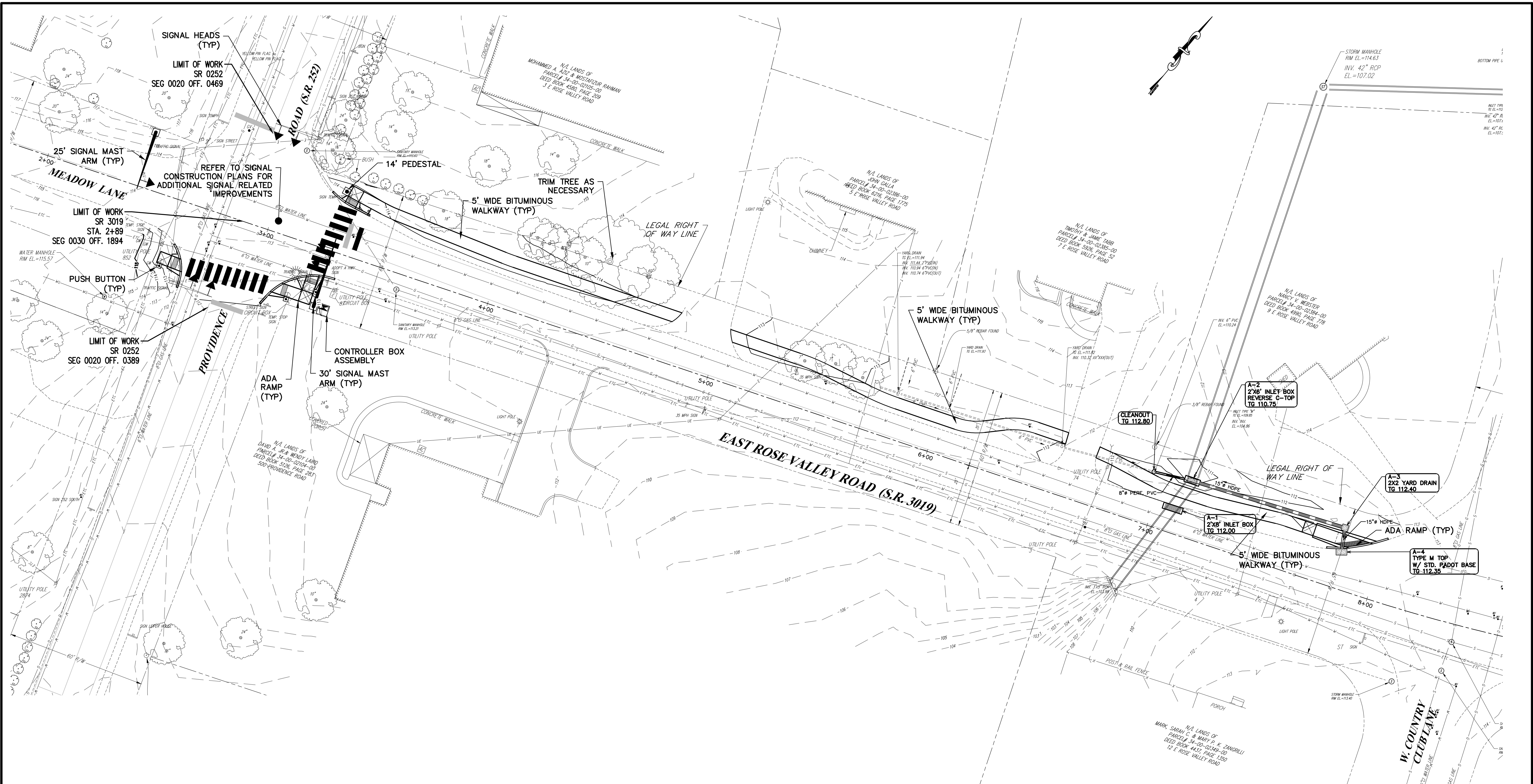
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SCALE: 1" = 30'
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SHEET 3 OF 13 SHEETS



CAUTION: TO INSURE VALIDITY OF PLAN REGISTRATION SEAL MUST BE IN RED INK.

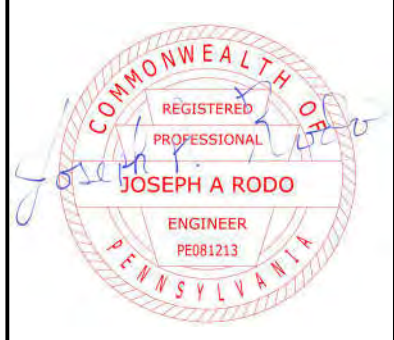


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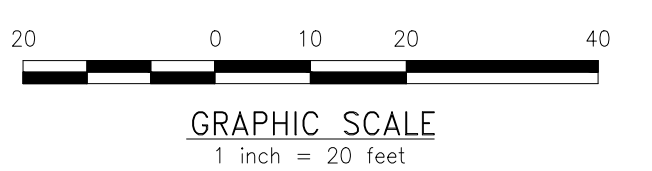
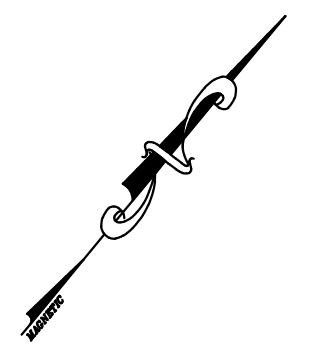
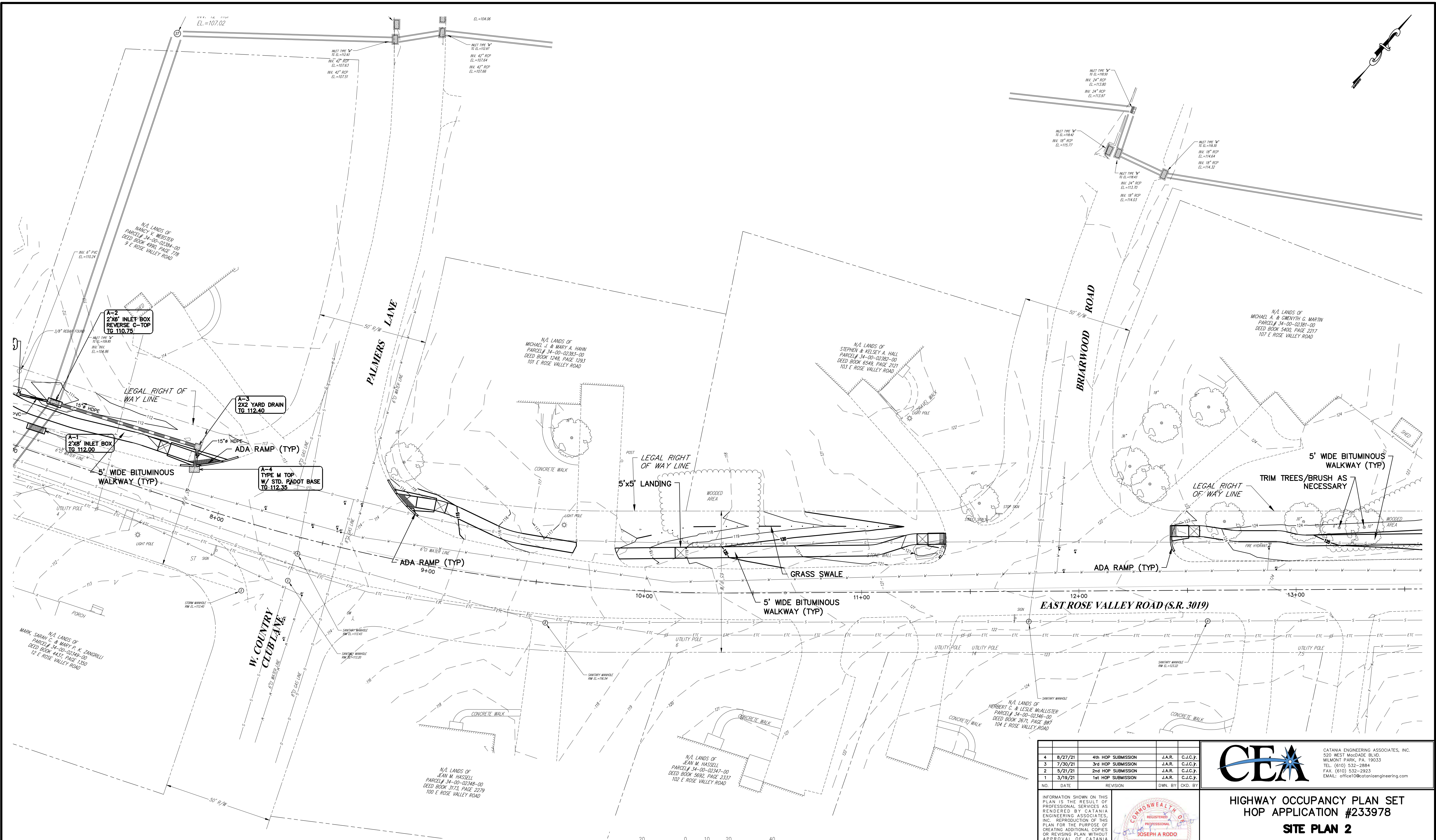
SITE PLAN 1

**E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS**

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

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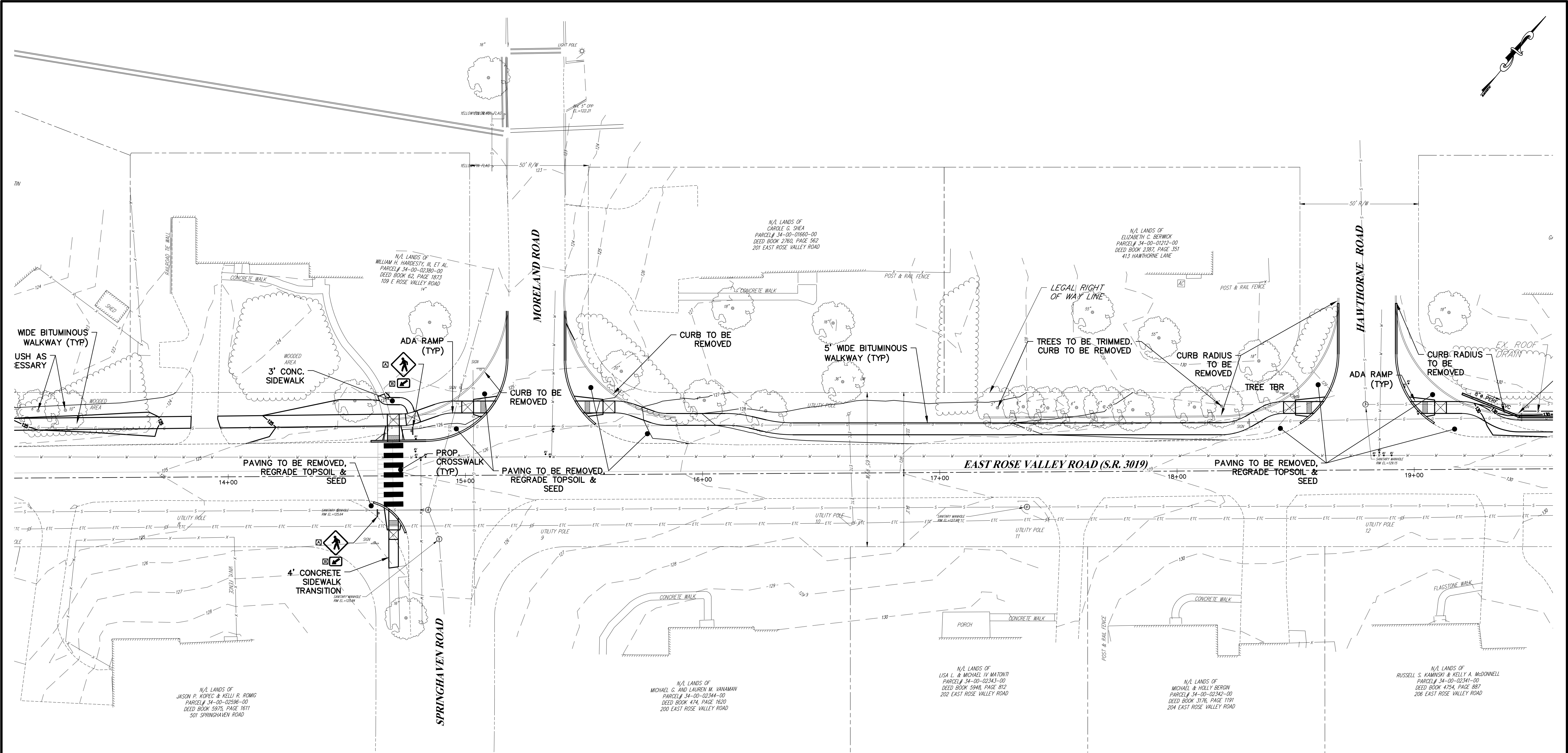
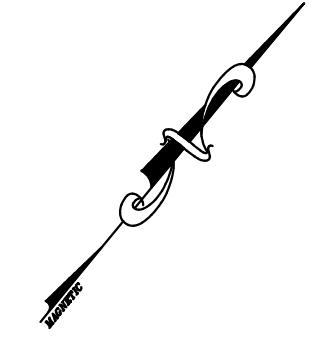


HIGHWAY OCCUPANCY PLAN SET
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N/A LANDS OF
JASON P. KOPKO & KELLY R. ROMIG
PARCEL# 34-00-02596-00
DEED BOOK 5975, PAGE 1611
501 SPRINGHAVEN ROAD

N/A LANDS OF
WILLIAM H. HARDESTY, III, ET AL.
PARCEL# 34-00-02380-00
DEED BOOK 62, PAGE 1873
139 E ROSE VALLEY ROAD

N/A LANDS OF
CAROLE G. SHEA
PARCEL# 34-00-01660-00
DEED BOOK 2760, PAGE 562
201 EAST ROSE VALLEY ROAD

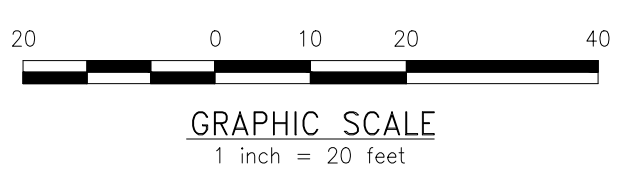
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ELIZABETH C. BERWICK
PARCEL# 34-00-01212-00
DEED BOOK 2357, PAGE 351
413 HAWTHORNE LANE

N/A LANDS OF
MICHAEL G. AND LAUREN M. VANAMAN
PARCEL# 34-00-02344-00
DEED BOOK 474, PAGE 1620
200 EAST ROSE VALLEY ROAD

N/A LANDS OF
LISA L. & MICHAEL IV MATONIT
PARCEL# 34-00-02343-00
DEED BOOK 5948, PAGE 812
202 EAST ROSE VALLEY ROAD

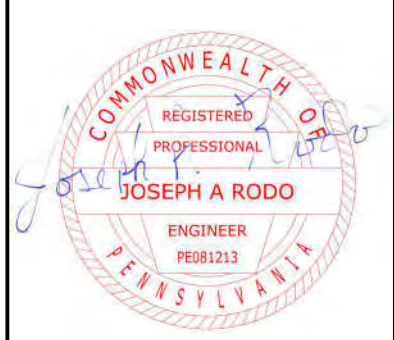
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MICHAEL & HOLLY BERGIN
PARCEL# 34-00-02342-00
DEED BOOK 3176, PAGE 1191
204 EAST ROSE VALLEY ROAD

N/A LANDS OF
RUSSELL S. KAMINSKI & KELLY A. McDONNELL
PARCEL# 34-00-02341-00
DEED BOOK 4754, PAGE 887
206 EAST ROSE VALLEY ROAD



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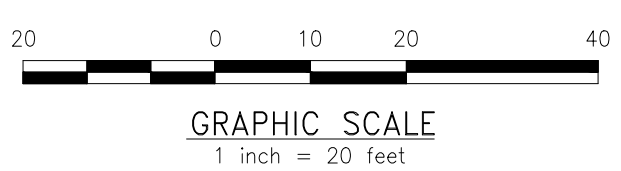
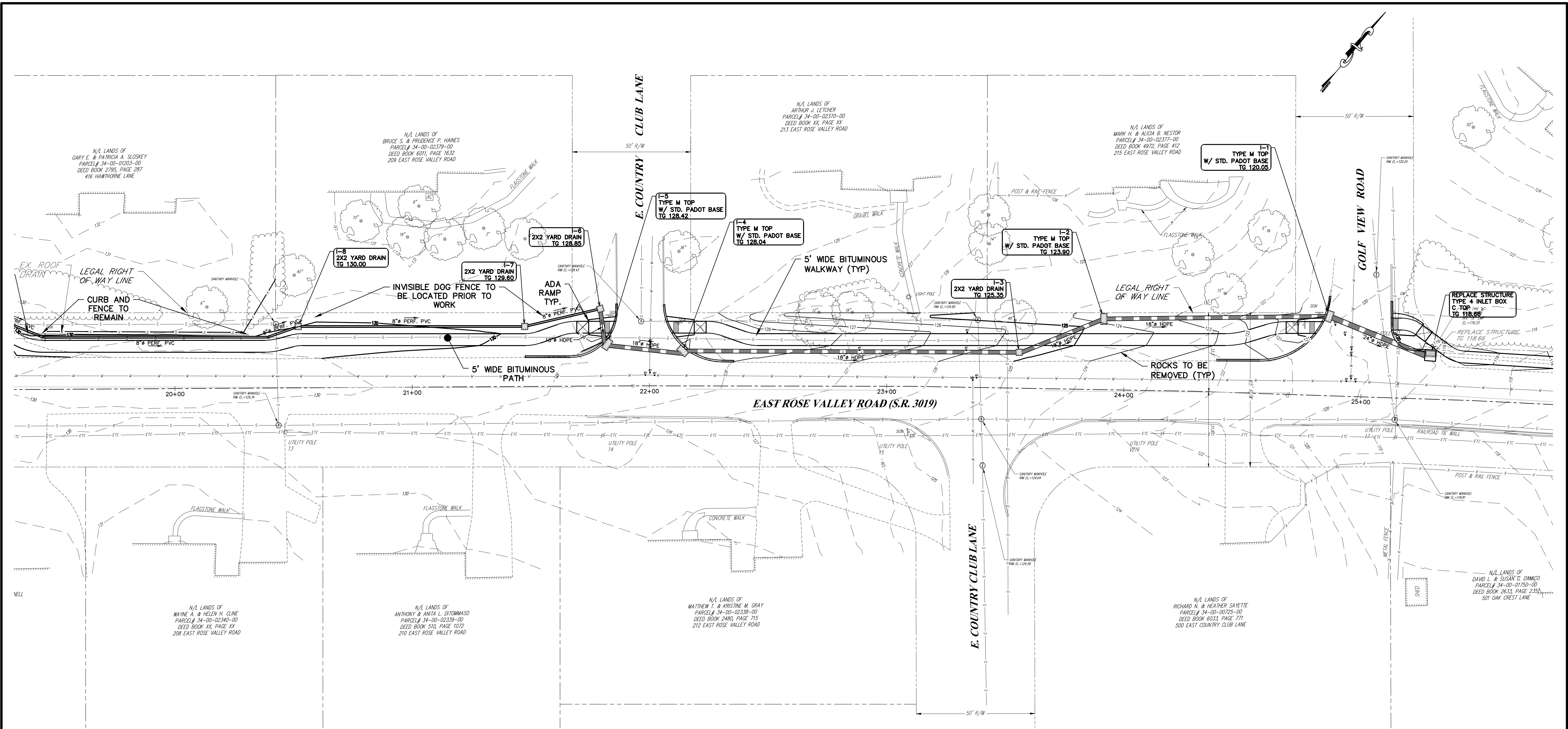


DWN. BY J.A.R.
CHK. BY C.J.C.F.



**HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978
SITE PLAN 3
E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS**

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA
SCALE: 1" = 20'
DATE: 09/30/20 DRAWING NO. 83250-128
SHEET 6 OF 13 SHEETS



4	8/27/21	4th HOP SUBMISSION	J.A.R.	C.J.C.F.
3	7/30/21	3rd HOP SUBMISSION	J.A.R.	C.J.C.F.
2	5/21/21	2nd HOP SUBMISSION	J.A.R.	C.J.C.F.
1	3/19/21	1st HOP SUBMISSION	J.A.R.	C.J.C.F.

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DWN. BY J.A.R.
CKD. BY C.J.C.F.

DSC. BY FIELD BOOK/PAGE



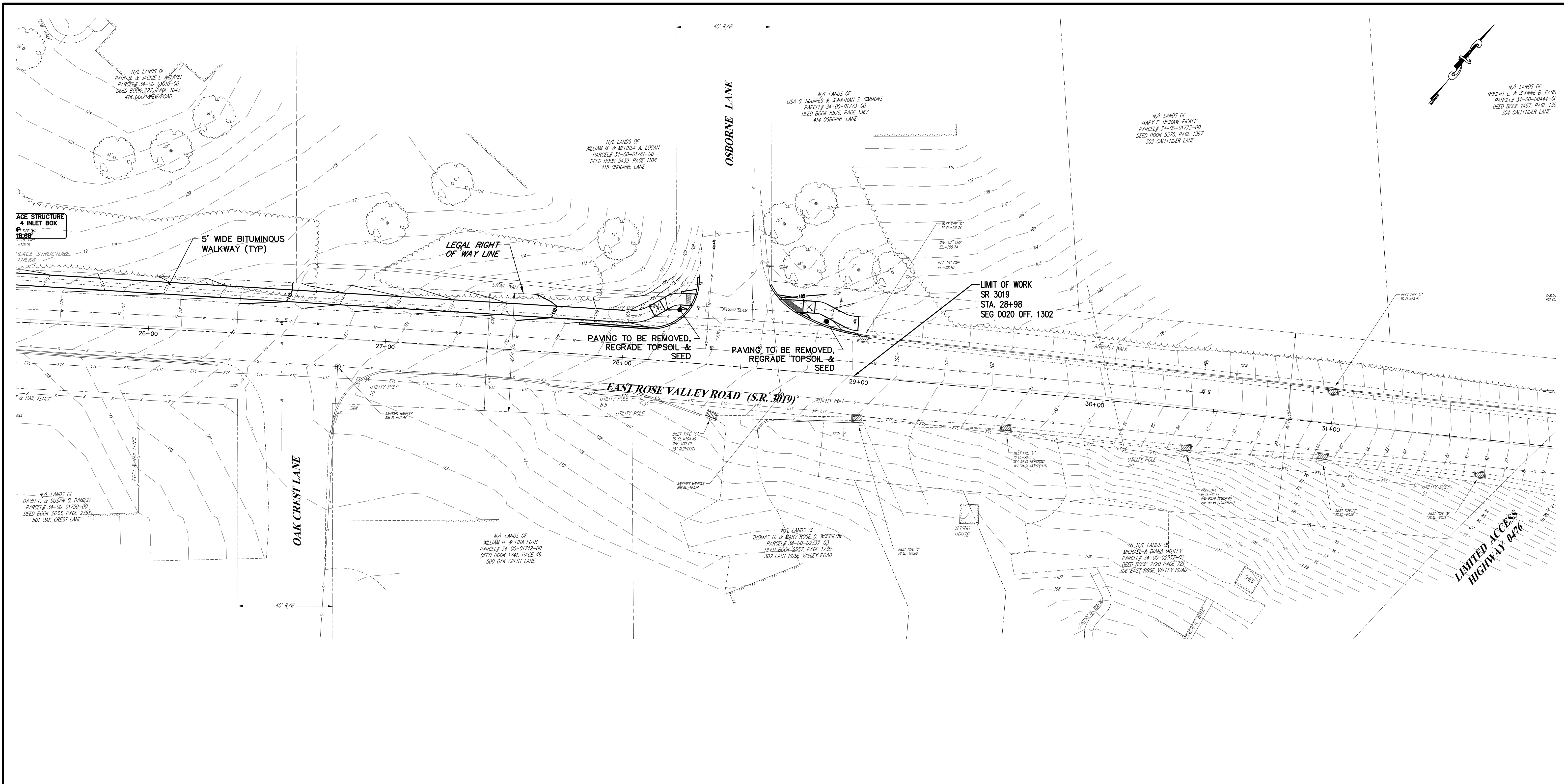
CEA
CATANIA ENGINEERING ASSOCIATES, INC.
520 WEST MAGDALE BLVD.
MILFORD PARK, PA 19033
TEL. (610) 532-2884
FAX. (610) 532-2923
EMAIL: office@cataniaengineering.com

**HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978
SITE PLAN 4
E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS**

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

SCALE: 1" = 20'
DATE: 09/30/20

DRAWING NO. 83250-128
SHEET 7 OF 13 SHEETS



AGE STRUCTURE
4 INLET BOX
HP TYP. 3"
18.66

PLACE STRUCTURE
118.66

5' WIDE BITUMINOUS
WALKWAY (TYP)

LEGAL RIGHT
OF WAY LINE

N/A LANDS OF
WILLIAM M. & MELISSA A. LOGAN
PARCEL# 34-00-01781-00
DEED BOOK 5439, PAGE 1108
415 OSBORNE LANE

N/A LANDS OF
LISA G. SQUIRES & EDITHAN S. SIMMONS
PARCEL# 34-00-01773-00
DEED BOOK 5575, PAGE 1367
414 OSBORNE LANE

N/A LANDS OF
MARY F. DISHAW-RICKER
PARCEL# 34-00-01773-00
DEED BOOK 5575, PAGE 1367
302 CALLENDER LANE

N/A LANDS OF
ROBERT L. & JEANNE B. CARR
PARCEL# 34-00-00444-00
DEED BOOK 1457, PAGE 135
304 CALLENDER LANE

PAVING TO BE REMOVED,
REGRADE TOPSOIL &
SEED

PAVING TO BE REMOVED,
REGRADE TOPSOIL &
SEED

LIMIT OF WORK
SR 3019
STA. 28+98
SEG 0020 OFF. 1302

EAST ROSE VALLEY ROAD (S.R. 3019)

OAK CREST LANE

OSBORNE LANE

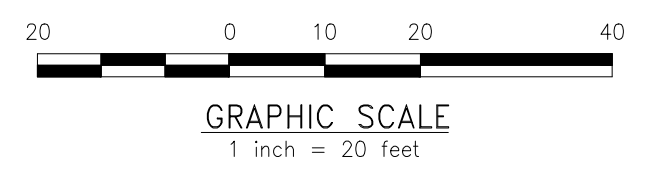
LIMITED ACCESS
HIGHWAY 0476

N/A LANDS OF
DAVID L. & SUSAN G. DAMICO
PARCEL# 34-00-01750-00
DEED BOOK 2633, PAGE 235
501 OAK CREST LANE

N/A LANDS OF
WILLIAM H. & LISA FOTH
PARCEL# 34-00-01742-00
DEED BOOK 1741, PAGE 46
500 OAK CREST LANE

N/A LANDS OF
THOMAS H. & MARY ROSE C. WORRLOW
PARCEL# 34-00-02337-03
DEED BOOK 3657, PAGE 1725
302 EAST ROSE VALLEY ROAD

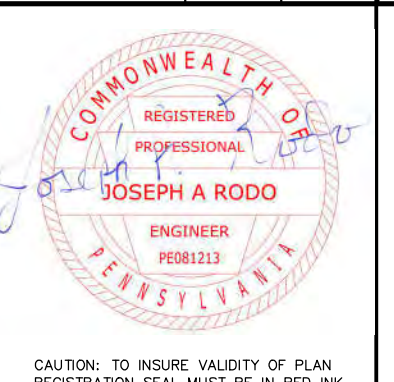
N/A LANDS OF
MICHAEL & DIANA MOTLEY
PARCEL# 34-00-02352-02
DEED BOOK 2720, PAGE 721
306 EAST ROSE VALLEY ROAD



NO.	DATE	REVISION	DWN. BY	CKD. BY
4	8/27/21	4th HOP SUBMISSION	J.A.R.	C.J.C.F.
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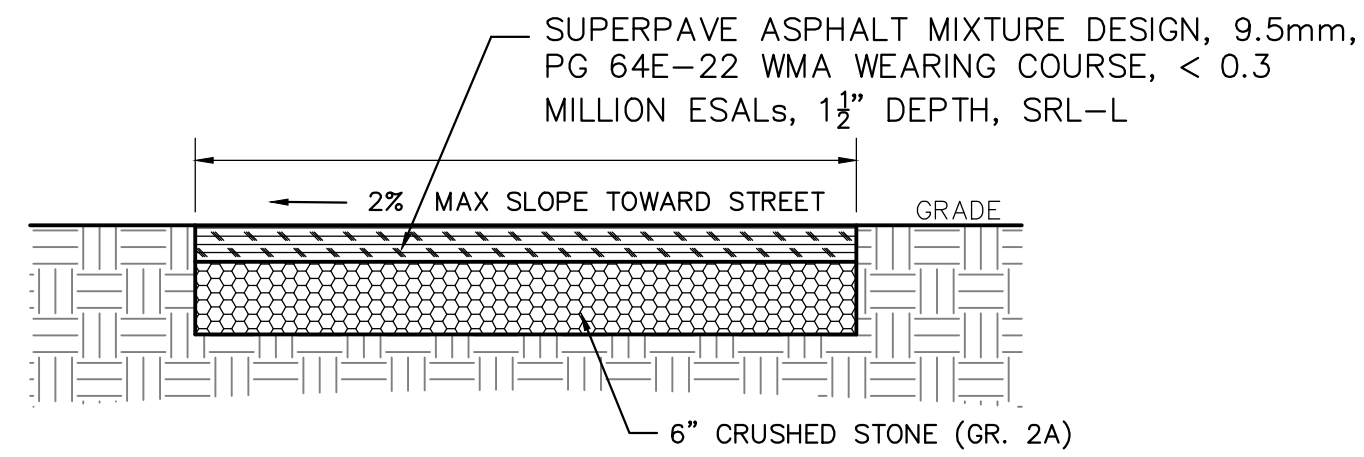
**HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978
SITE PLAN 5
E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS**

DWN. BY: J.A.R.
CKD. BY: C.J.C.F.

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

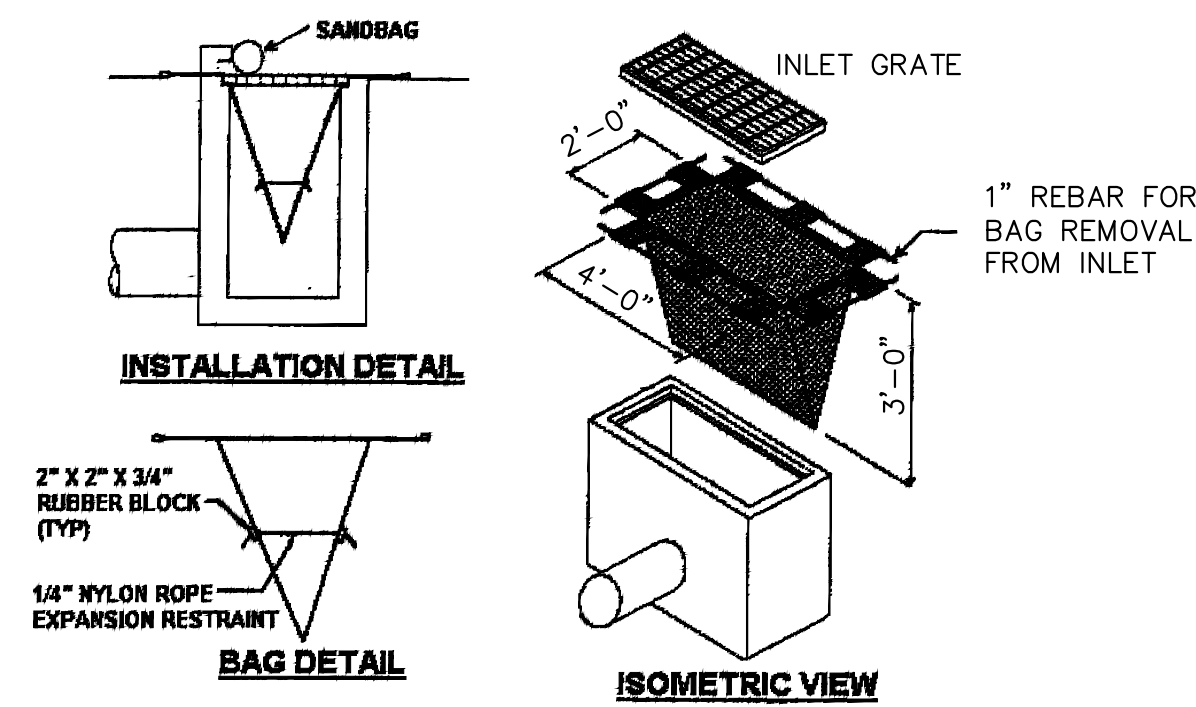
DWG. BY: FIELD BOOK/PAGE

SCALE: 1" = 20'
DATE: 09/30/20 DRAWING NO. 83250-128
SHEET 8 OF 13 SHEETS



BITUMINOUS PATH DETAIL
N.T.S.

- NOTES:
1. MAXIMUM DRAINAGE AREA = 1/2 AREA.
 2. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED.
 3. SIX MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
 4. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS



FILTER BAG INLET PROTECTION, TYPE M
NOT TO SCALE

TABULATION OF SIGNS

PLAN SYMBOL	SERIES	SIZE (IN)	AREA EACH (SF)	QUANTITY	DESCRIPTION
A	R1-5L	36x36	9	2	YIELD HERE TO PEDESTRIAN WITH LEFT ARROW SIGN
B	W16-7P	30x18	3.75	2	DIAGONAL DOWNWARD POINTING ARROW

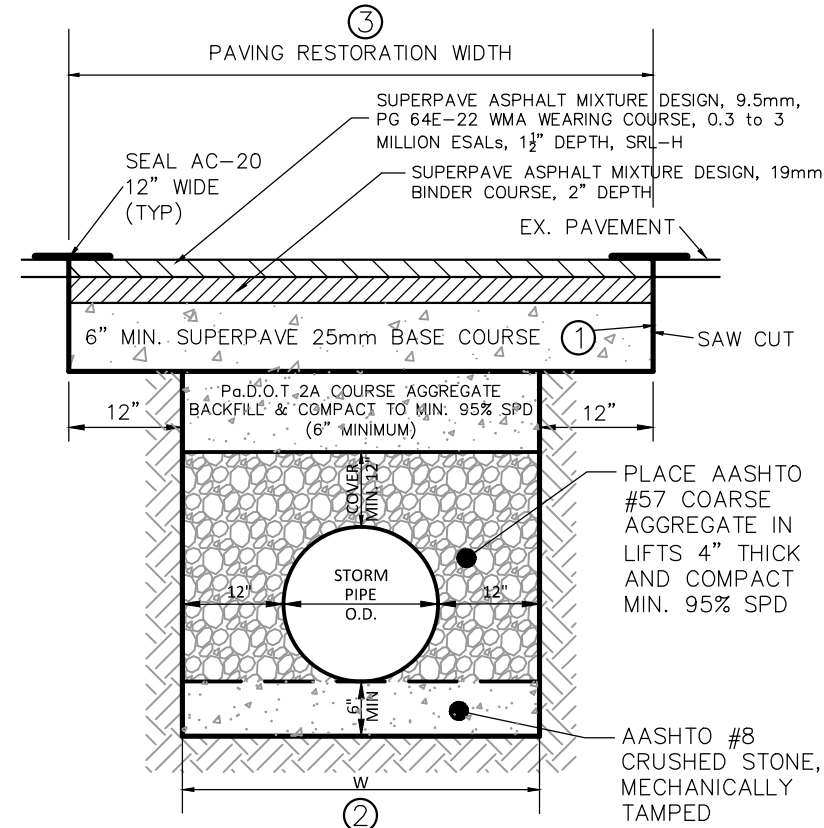
PIPE INNER Ø	TRENCH WIDTH "W"	PAVING RESTORATION WIDTH
12"	39"	63"
15"	42"	66"
18"	46"	70"
24"	52"	76"
30"	60"	84"
36"	66"	90"
48"	79"	103"
60"	91"	115"

- NOTES:
1. EXPOSED VERTICAL AND HORIZONTAL SURFACES SHALL BE PREPARED AS PER PUB. 408, SECT. 401.3(f)
 2. PIPE BEDDING WIDTH IS DEPENDENT UPON PIPE SIZE FOR HDPE STORM PIPE AND PVC SANITARY SEWER PIPE. SEE CHART ABOVE.
 3. CONTRACTOR IS ADVISED THAT TRENCH RESTORATION PAYMENT SHALL BE BASED SOLELY ON THE PAVING WIDTH ASSOCIATED WITH THE PIPE SIZE INSTALLED (SEE TABLE ABOVE). ANY PAVEMENT RESTORATION REQUIRED BEYOND THIS WIDTH SHALL BE DONE AT NO ADDITIONAL COSTS FOR THE OWNER.

CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT TRENCH SIDE SLOPES IN ACCORDANCE WITH OSHA AND ALL OTHER PERTINENT CODE REQUIREMENTS.

IN LOCAL ROADS AND PARKING LOTS THE MINIMUM TRENCH WIDTH "W" SHALL BE AS SHOWN ABOVE OR PER MANUFACTURER, WHICHEVER IS GREATER.

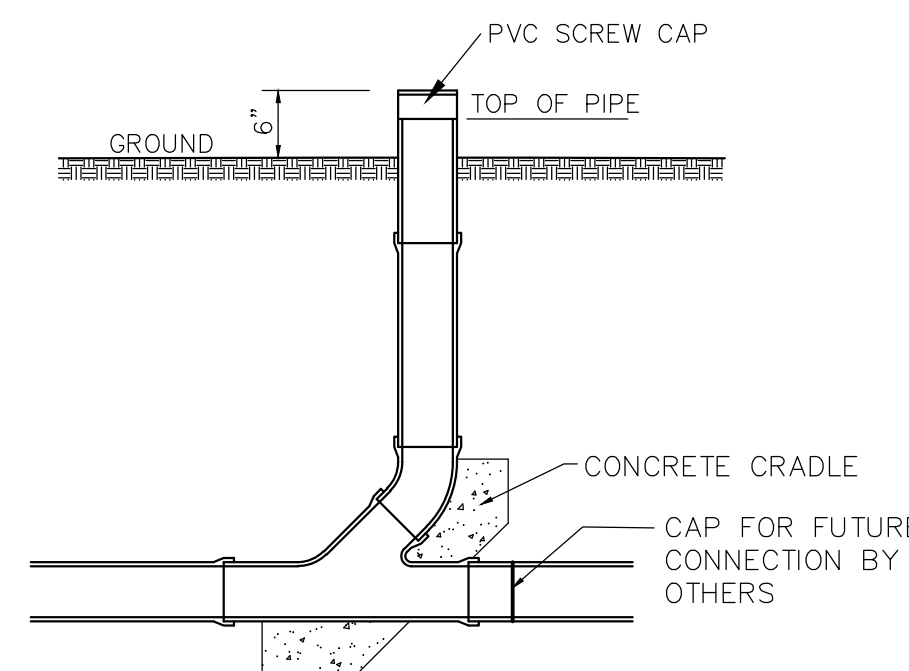
IN PADOT R.O.W. LIMITS, THE MIN. TRENCH WIDTH SHALL BE 4 FT + PIPE O.D.



PIPE TRENCH BEDDING, BACKFILL & PAVEMENT RESTORATION
H.D.P.E. STORM SEWER
N.T.S.

NOTE: CLEANOUT LINE TO BE OF THE SAME DIAMETER AND MATERIAL AS SEWER LATERAL.

FOR FUTURE CONNECTION TO THE PROPOSED SEWER LATERALS, ALL CLEANOUTS SHALL BE CAPPED BY CONTRACTOR. CONNECTION SHALL BE PROPERTY OWNER'S RESPONSIBILITY.

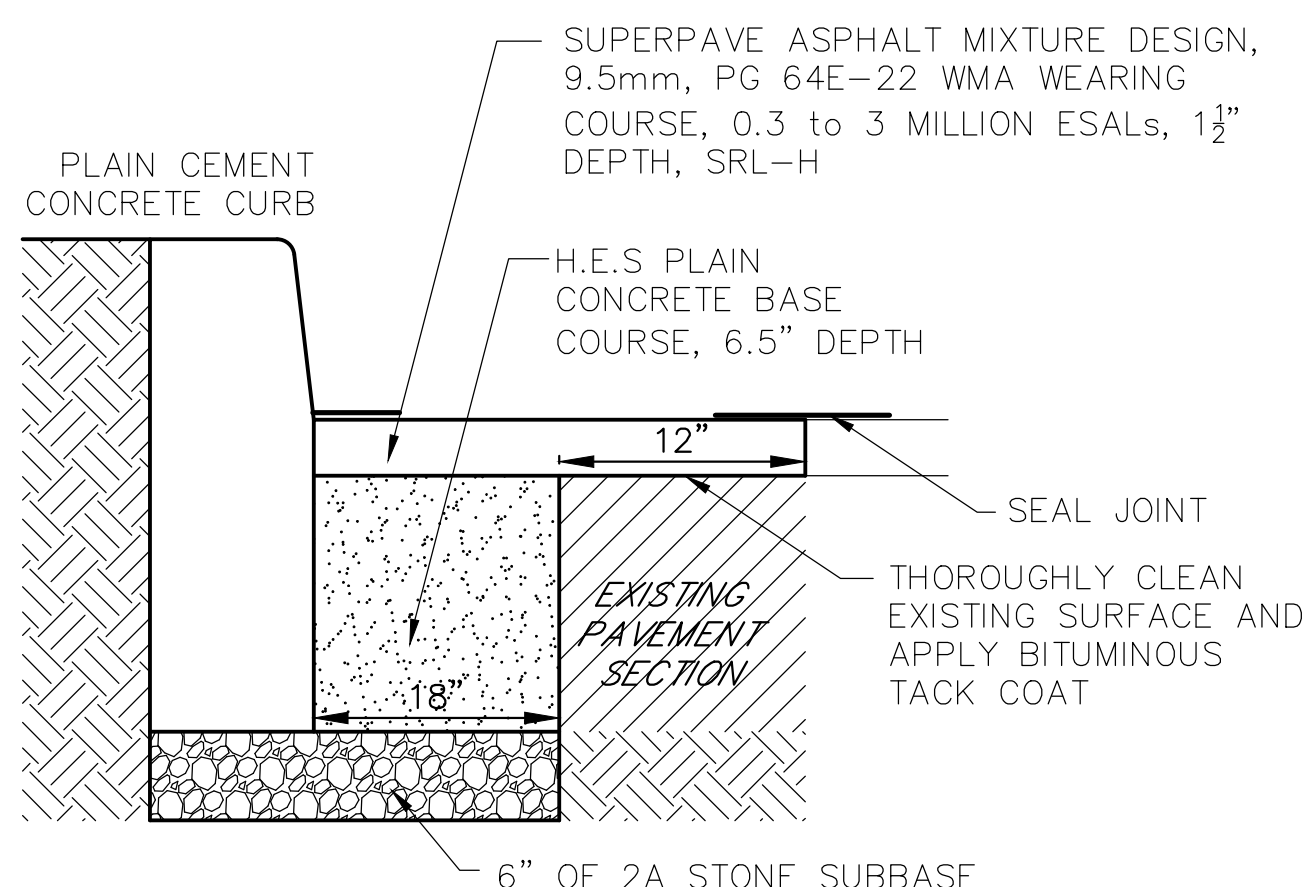


SANITARY SEWER CLEAN-OUT (GRASS AREAS)
N.T.S.

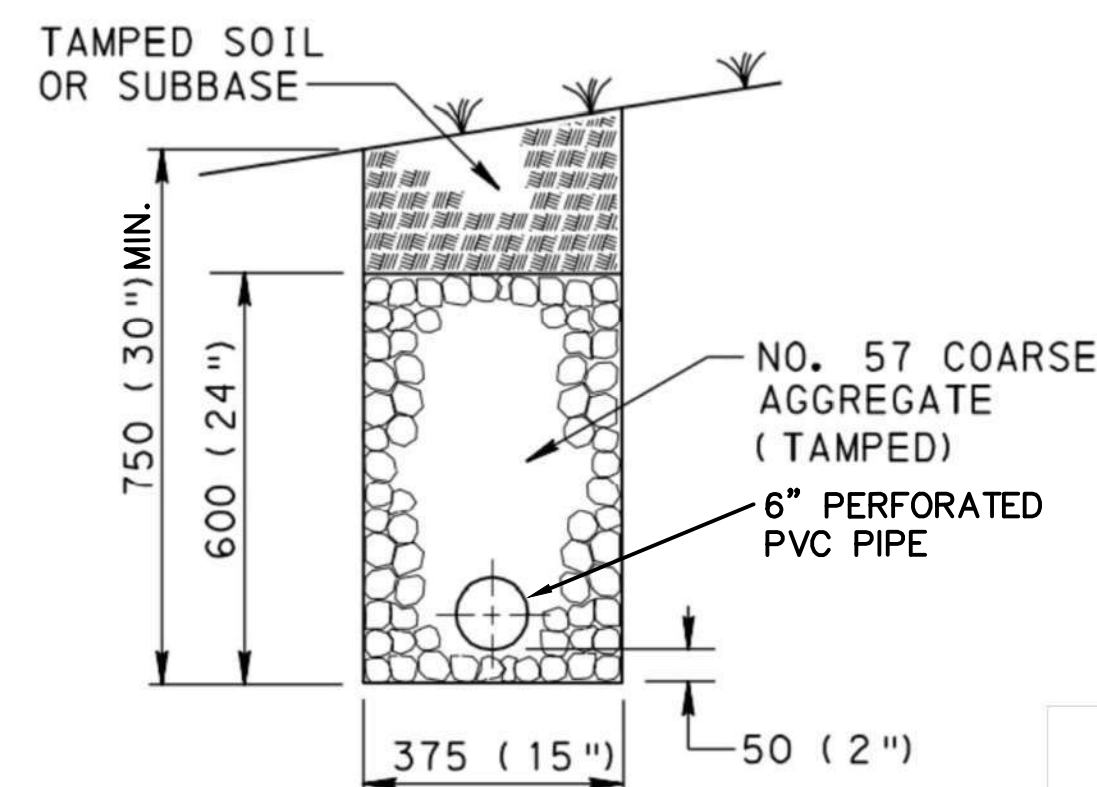
- EAST ROSE VALLEY ROAD (SR 3019)**
- ACCORDING TO THE PADOT LOG, CROSS SECTION IS 4" OF CRUSHED STONE SUBBASE & 4" OF WEARING COURSE

- PROVIDENCE ROAD (SR 252)**
- ACCORDING TO THE PADOT LOG, CROSS SECTION IS 8" OF NATIVE STONE GRANULAR SUBBASE & 7.5" OF WEARING COURSE.

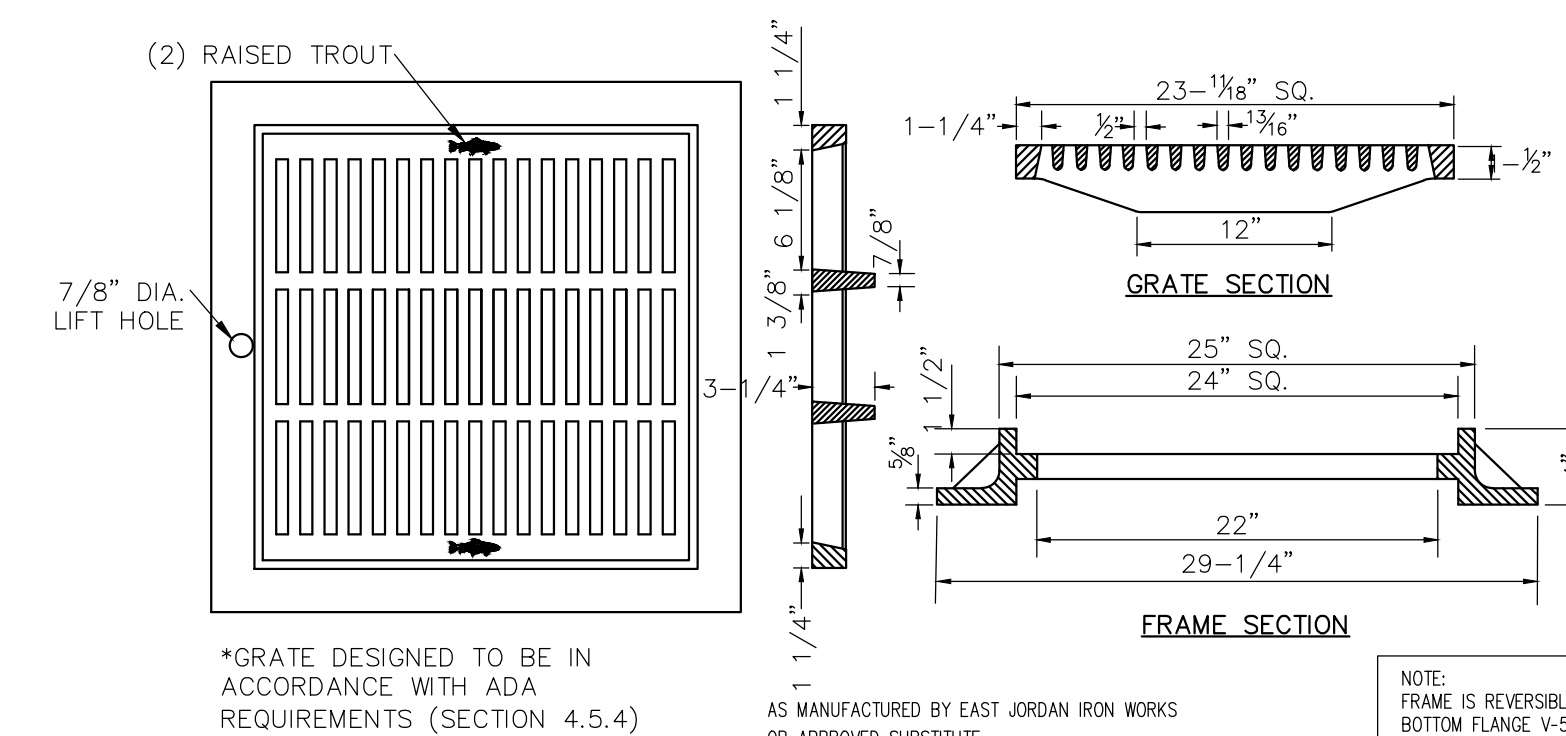
EXISTING PADOT PAVING SECTIONS



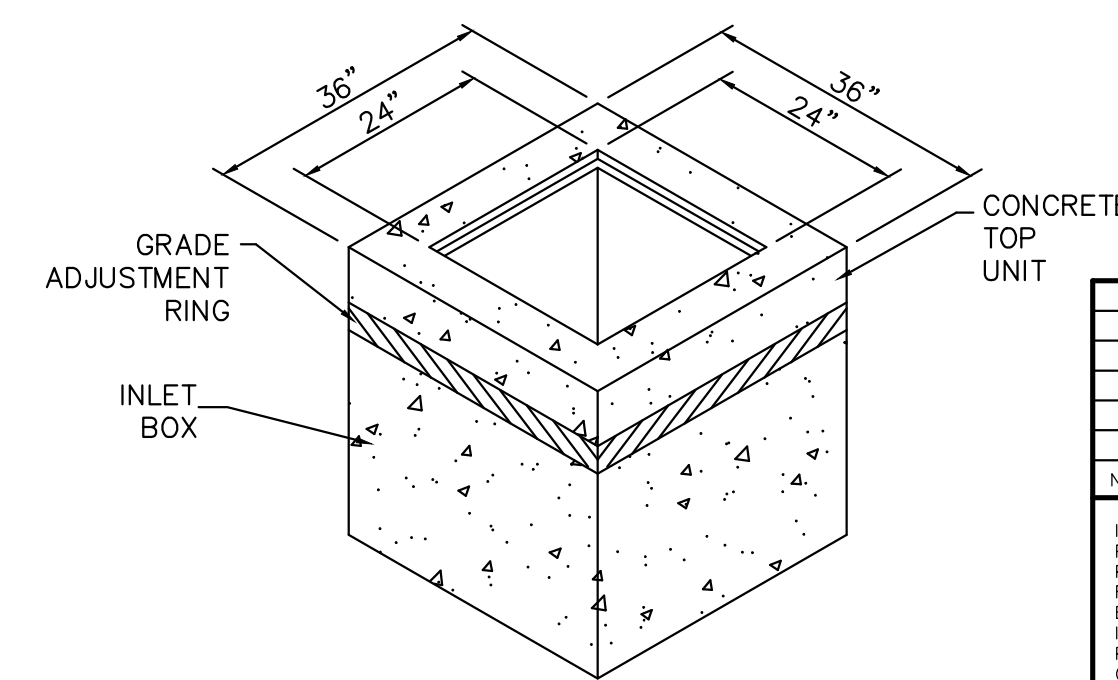
GUTTER RESTORATION
NOT TO SCALE



UNDERDRAIN DETAIL
N.T.S.



2' x 2' ADA YARD DRAIN GRATE
N.T.S.



INLET TO BE PLACED ON A MIN. OF 6" CRUSHED STONE.

YARD DRAIN DETAIL
N.T.S.

NOTE: FRAME IS REVERSIBLE BOTTOM FLANGE V-5622 TOP FLANGE V-5622

AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED SUBSTITUTE

*GRATE DESIGNED TO BE IN ACCORDANCE WITH ADA REQUIREMENTS (SECTION 4.5.4)

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AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED SUBSTITUTE

NOTE: FRAME IS REVERSIBLE BOTTOM FLANGE V-5622 TOP FLANGE V-5622

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NOTE: FRAME IS REVERSIBLE BOTTOM FLANGE V-5622 TOP FLANGE V-5622

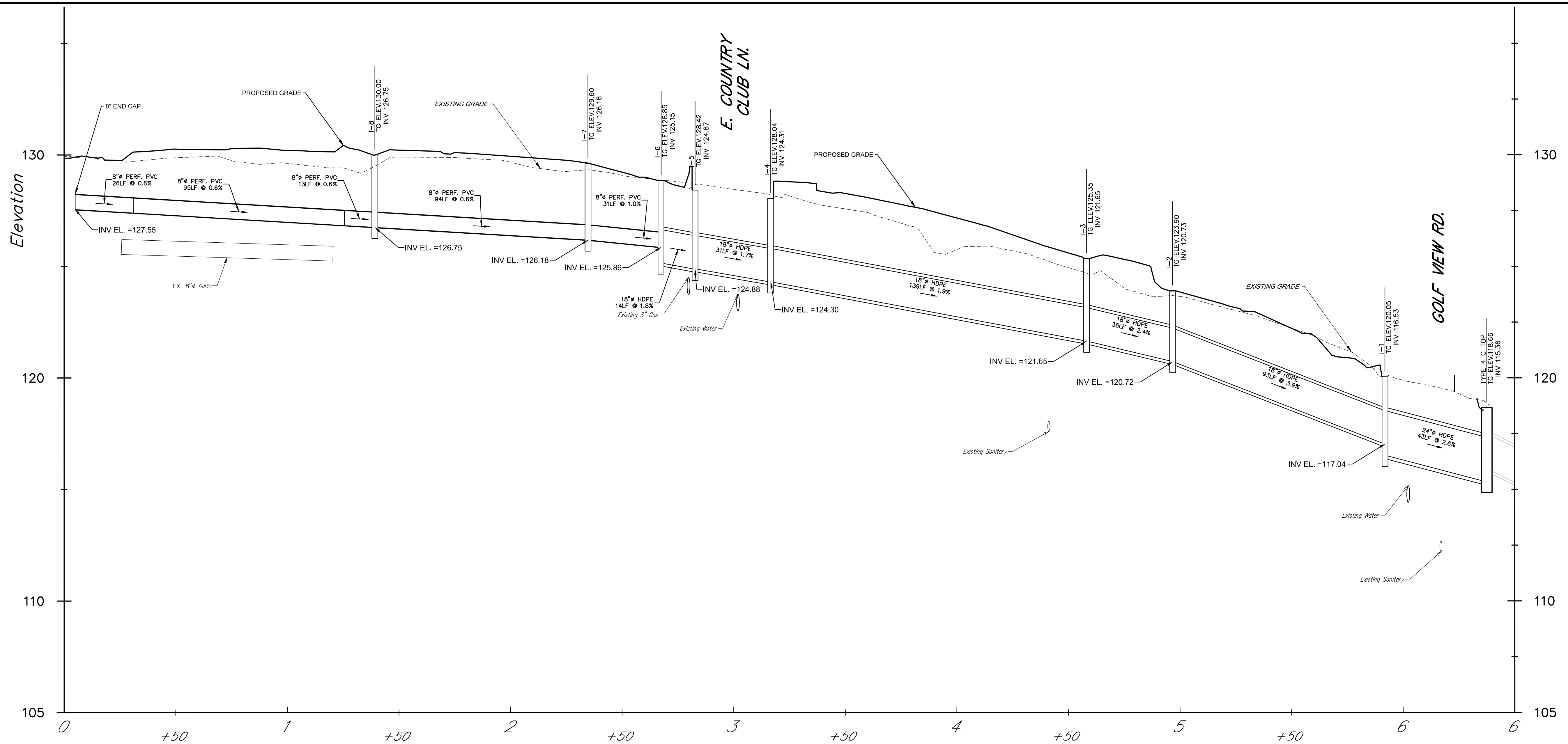
AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED SUBSTITUTE

NOTE: FRAME IS REVERSIBLE BOTTOM FLANGE V-5622 TOP FLANGE V-5622

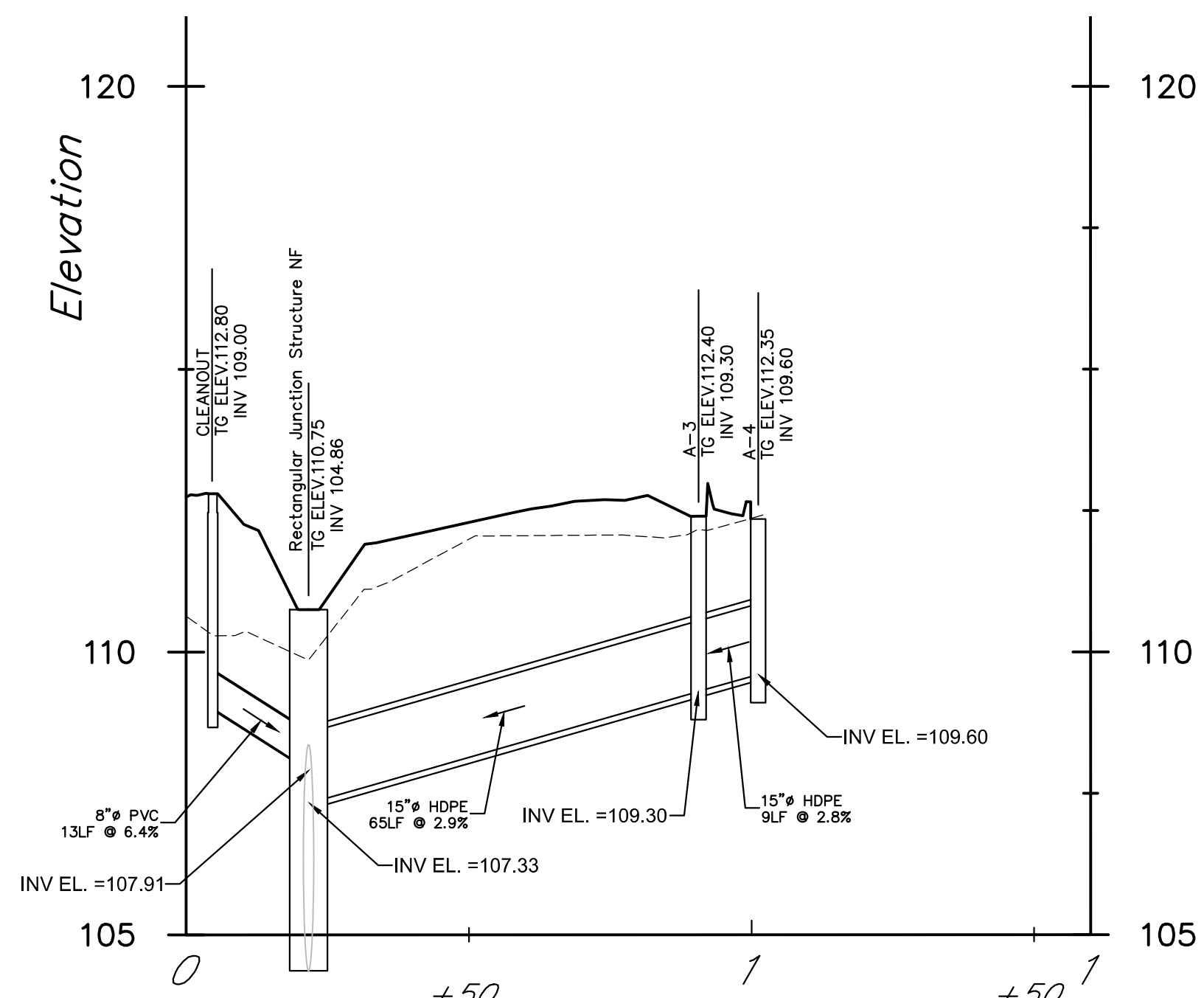
AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED SUBSTITUTE

NOTE: FRAME IS REVERSIBLE BOTTOM FLANGE V-5622 TOP FLANGE V-5622

AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED SUBSTITUTE



Profile: Alignment I-1 to I-8
 HOR. SCALE 1" = 25'
 VERT. SCALE 1" = 2.50'



Profile: Alignment A-2 - A-4
 HOR. SCALE 1" = 25'
 VERT. SCALE 1" = 2.50'

4	8/27/21	4th HOP SUBMISSION	J.A.R.	C.J.C.F.
3	7/30/21	3rd HOP SUBMISSION	J.A.R.	C.J.C.F.
2	5/21/21	2nd HOP SUBMISSION	J.A.R.	C.J.C.F.
1	3/19/21	1st HOP SUBMISSION	J.A.R.	C.J.C.F.
NO.	DATE	REVISION	DWN. BY	CKD. BY

INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF PROFESSIONAL SERVICES AS RENDERED BY CATANIA ENGINEERING ASSOCIATES, INC. REPRODUCTION OF THIS PLAN FOR THE PURPOSE OF CREATING ADDITIONAL COPIES OR REVISING PLAN WITHOUT APPROVAL OF CATANIA ENGINEERING ASSOCIATES, INC. IS PROHIBITED. CERTIFICATION FOR THE WORK CONTAINED HEREIN IS LIMITED TO THE ENTRY FOR WHOM THE WORK WAS PERFORMED, AS OF THE DATE SHOWN ON THE PLAN.

STATE OF PENNSYLVANIA
 REGISTERED PROFESSIONAL ENGINEER
 JOSEPH A. RODO
 ENGINEER
 PE081213

CAUTION: TO PROPERLY ASSEMBLE PLAN, REGISTRATION SEAL MUST BE IN RED INK.

DWN. BY: J.A.R.
 CKD. BY: C.J.C.F.

DSG. BY: FIELD BOOK/PAGE

SCALE: 1" = N/A
 DATE: 09/30/20

DRAWING NO. 83250-128
 SHEET 10 OF 13 SHEETS

CEA
 CATANIA ENGINEERING ASSOCIATES, INC.
 520 WEST McDADE BLVD.
 MILFORD PARK, PA. 19033
 TEL: (610) 532-2894
 FAX: (610) 532-2923
 EMAIL: office10@cataniaengineering.com

HIGHWAY OCCUPANCY PLAN SET
 HOP APPLICATION #233978
STORM PROFILES
 E. ROSE VALLEY PEDESTRIAN
 WALKWAY IMPROVEMENTS
 TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES:

- THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
- FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
 - PENNDOT PUBLICATION 35;
 - PENNDOT PUBLICATION 46;
 - PENNDOT PUBLICATION 72M;
 - PENNDOT PUBLICATION 111;
 - PENNDOT PUBLICATION 212;
 - PENNDOT PUBLICATION 213;
 - PENNDOT PUBLICATION 236;
 - PENNDOT PUBLICATION 408; AND
 - MUTCD, CURRENT EDITION.
- REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
- PERMITTEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
- COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
- MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
- ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
- DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGHT DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
- ALL CHANNELIZING DEVICES, BARRICADES, AND SIGNS SHALL HAVE TYPE III OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).
- NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED BETWEEN 6:00 AM AND 9:00 AM AND BETWEEN 6:00 PM AND 7:00 PM MONDAYS THROUGH FRIDAYS OR ON LEGAL HOLIDAYS AND WEEKENDS ASSOCIATED WITH LEGAL HOLIDAYS. ALL RESTRICTIONS AND CLOSURES ARE TO BE REMOVED BY NOON ON THE DAY PRIOR TO THE LEGAL HOLIDAY.
- PERMITTEE SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G., POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST FOURTEEN DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G., LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).
- MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PATA DRAWING (S) 102, 107, 109-A & 202-A IN THE MARCH 1, 2021 VERSION OF PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES".
- DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3(J).
- REMOVE ALL SHORT-TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD.
- RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
- NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS FALL WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
- THE CONTRACTOR SHALL COMPLY WITH ACT 229 OF DECEMBER 2002 DURING CONSTRUCTION ACTIVITIES WITHIN PENNDOT'S RIGHT-OF-WAY.

GENERAL PERMIT NOTES:

- THE EXISTING SPEED LIMIT ON S.R. 3019 IS 35 M.P.H.
- THE RIGHT-OF-WAY IS FREE ACCESS. (LIMITED OR FREE)
- ALL WORK IN PA STATE HIGHWAY RIGHT-OF-WAY IS TO BE PERFORMED CONSISTENT WITH THE FOLLOWING:
 - PENNDOT PUBLICATION 13M, DESIGN MANUAL PART 2 - HIGHWAY DESIGN
 - PENNDOT PUBLICATION 34, APPROVED AGGREGATE PRODUCERS (BULLETIN 14)
 - PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)
 - PENNDOT PUBLICATION 41, PRODUCERS OF BITUMINOUS MATERIALS (BULLETIN 41)
 - PENNDOT PUBLICATION 42, PRODUCERS OF READY-MIX CONCRETE (BULLETIN 42)
 - PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL
 - PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION
 - PENNDOT PUBLICATION 111, PAVEMENT MARKINGS AND SIGNING STANDARDS
 - PENNDOT PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES
 - PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES
 - PENNDOT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS
 - PENNDOT PUBLICATION 408, SPECIFICATIONS
- DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS: RC'S: 30M, 32M, 45M, 46M, 64M, 67M, 72M AND 92M PER CHANGE #7.
- THE DRIVEWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
- PA STATE HIGHWAY RIGHT-OF-WAY MAY NOT BE USED FOR PARKING.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED STRUCTURES, FACILITIES AND DRAINAGE.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED SIGNS AND PAVEMENT MARKINGS.
- CONTACT PENNSYLVANIA ONE-CALL (1-800-242-1776) THREE WORKING DAYS BEFORE EXCAVATION OR DEMOLITION WORK. SERIAL NUMBER FOR (list Municipality).
- IF A TRAFFIC SIGNAL IS WITHIN 500 FEET OF THE SITE, CALL THE DISTRICT TRAFFIC ENGINEER AT AT LEAST 3 DAYS PRIOR TO THE START OF WORK.
- THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.
- THE PERMITTEE'S CONTRACTOR SHALL SAWCUT AND REMOVE SHOULDER MATERIAL AS NECESSARY TO ENSURE THE PAVEMENT REPLACEMENT IS ADJACENT TO THE FULL-DEPTH PAVEMENT OF THE TRAVEL LANE.
- FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATION WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING. IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.

SEQUENCE OF OPERATION AND TRAFFIC CONTROL

GENERAL:

A MINIMUM OF EIGHT CONSTRUCTION STAGES ARE PROPOSED IN ORDER TO ACCOMPLISH THE DESIRED TRAFFIC MAINTENANCE PATTERNS. NO PARKING IS PERMITTED ALONG E. ROSE VALLEY ROAD AND 300' ALONG INTERSECTING SIDE STREETS DURING CONSTRUCTION.

PHASE SIDEWALK CLOSURES TO MAINTAIN PEDESTRIAN TRAFFIC THRU THE PROJECT AREA WHERE APPLICABLE.

DURING THE CONSTRUCTION OF THE STORM DRAINAGE SYSTEMS AND ANY OTHER UNDERGROUND UTILITY WORK ADJACENT TO THE ROADWAY CONSTRUCTION AREAS, PROVIDE ADEQUATE VEHICULAR AND PEDESTRIAN TRAFFIC PROTECTION AT ALL TIMES BY UTILIZING THE FOLLOWING:

- SIGNING AND DEVICES OUTLINED IN PATA 102, PATA 107, PATA 109-A & PATA 202-A.
- REFLECTIVE PROTECTIVE FENCE.
- STEEL PLATING OVER THE PIPE TRENCH.
- BACKFILL THE TRENCH TO GRADE AT THE END OF EACH WORKDAY.

A DESCRIPTION OF THE CONSTRUCTION STAGING IS PROVIDED BELOW.

NOTIFY THE DISTRICT PRESS OFFICE AND THE TOWNSHIP OF NETHER PROVIDENCE A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION THAT CONSTRUCTION WILL BEGIN AND PARKING RESTRICTIONS WILL BE IN EFFECT.

CONSTRUCTION STAGES ARE AS FOLLOWS:


- OSBORNE LN. TO GOLFVIEW RD. ALONG E. ROSE VALLEY ROAD
- GOLFVIEW RD. TO E. COUNTRY CLUB LN. ALONG E. ROSE VALLEY ROAD
- E. COUNTRY CLUB LN. TO HAWTHORNE RD. ALONG E. ROSE VALLEY ROAD
- HAWTHORNE RD. TO MORELAND RD. ALONG E. ROSE VALLEY ROAD
- MORELAND RD. TO BRIARWOOD RD. ALONG E. ROSE VALLEY ROAD
- BRIARWOOD RD. TO PALMERS LN. ALONG E. ROSE VALLEY ROAD
- PALMERS LN. TO PROVIDENCE RD. ALONG E. ROSE VALLEY ROAD
- INTERSECTION OF E. ROSE VALLEY RD. AND PROVIDENCE RD.

TWO WEEKS PRIOR TO CONSTRUCTION, NOTIFY ALL RESIDENTS WITHIN AND ADJACENT TO THE LIMITS LISTED ABOVE, IN WRITING THAT PARKING RESTRICTIONS WILL BE IN EFFECT DURING CONSTRUCTION.

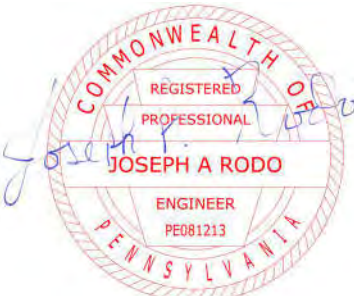
- THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
- PRIOR TO AN OVERLAY, BITUMINOUS OR CONCRETE BASE REPAIR OR JOINT REPLACEMENT MAY BE REQUIRED. REPAIR/REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.

- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- ALL PAVEMENT MARKINGS OTHER THAN LONGITUDINAL LINES TO BE HOT THERMOPLASTIC (PENNDOT PUBLICATION 111, TC-8600).
- MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF WORK.
- MATERIAL CERTIFICATION MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN PENNDOT RIGHT-OF-WAY.
- THE PERMITTEE SHALL CONTACT THE COUNTY MAINTENANCE MANAGER AT THE TIME OF THE GUIDERAIL REMOVAL; ALL EXISTING GUIDERAIL TO BE REMOVED SHALL BE TRANSPORTED TO AND STORED AS PER THE DIRECTION FROM THE COUNTY MAINTENANCE MANAGER OR HIS REPRESENTATIVE.
- ALL PROPOSED PEDESTRIAN FACILITIES REFLECTED ON THESE PLANS, INCLUDING THOSE THAT ARE OUTSIDE OF PENNDOT LEGAL RIGHT-OF-WAY, SHALL BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS OF THE U.S. ACCESS BOARD, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) OF THE ACCESSIBILITY GUIDELINES OF BUILDINGS AND FACILITIES (ADAAG). PENNDOT DESIGN MANUAL PART 2, CHAPTER 6, AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION (PENNDOT PUBLICATION 72M, RC-67M) PROVIDE GUIDANCE ON ADA ACCESSIBLE DESIGN FOR PEDESTRIAN FACILITIES AND CAN BE UTILIZED FOR REFERENCE.
- ALL SLOPE MEASUREMENTS WILL BE INSPECTED/VERIFIED WITH A 2-FOOT SMART LEVEL.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF THE CONSTRUCTION.
- MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE. REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- STRUCTURAL STEEL BICYCLE SAFE GRATES MUST BE PROVIDED FOR ALL INLETS WITHIN THE ROADWAY PAVEMENT OF THOSE THAT MAY RECEIVE BICYCLE TRAFFIC (PENNDOT PUBLICATION 72M, RC-45M).
- THE PERMITTEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
- ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS.

4	8/27/21	4th HOP SUBMISSION	J.A.R.	C.J.C.F.	
3	7/30/21	3rd HOP SUBMISSION	J.A.R.	C.J.C.F.	
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1	3/19/21	1st HOP SUBMISSION	J.A.R.	C.J.C.F.	
NO.	DATE	REVISION	DWN. BY	CKD. BY	
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DWN. BY J.A.R. CKD. BY C.J.C.F.			DSG. BY _____ FIELD BOOK/PAGE _____		
SCALE: 1" = N/A DATE: 09/30/20			DRAWING NO. 83250-128 SHEET 11 OF 13 SHEETS		



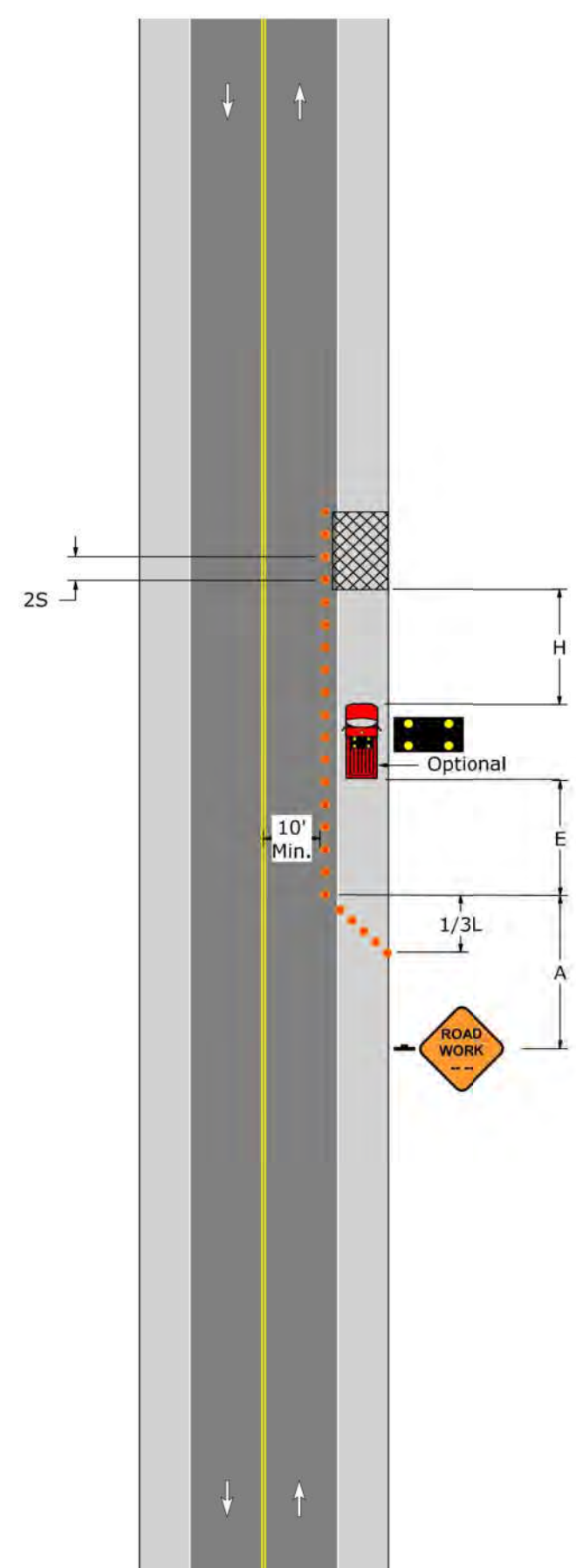
CATANIA ENGINEERING ASSOCIATES, INC.
520 WEST MeCDADE BLVD.
MILMONT PARK, PA. 19033
TEL. (610) 532-2894
FAX. (610) 532-2923
EMAIL: office10@cataniaengineering.com



HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978
TRAFFIC CONTROL 1
E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

PATA 102



PATA 102

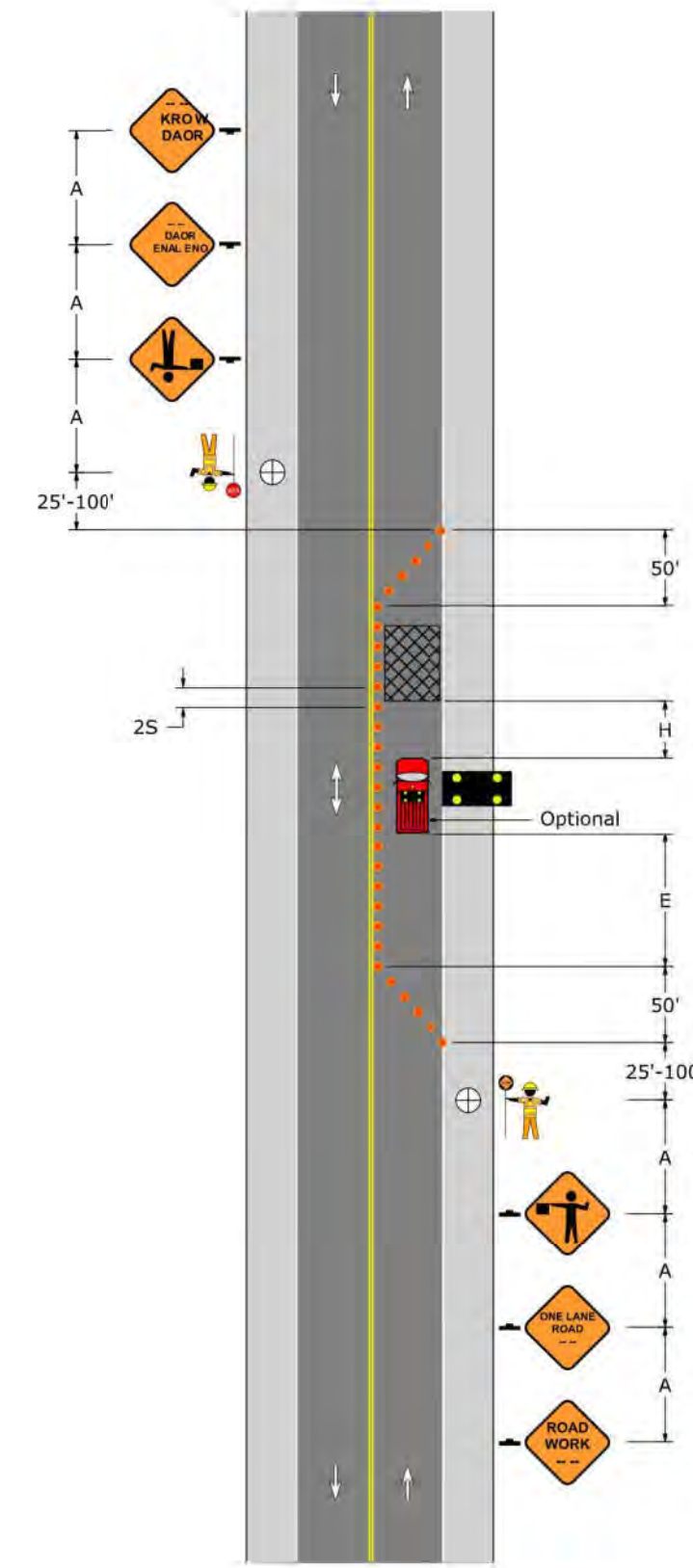
- For operations of 15 minutes or less:
 - The ROAD WORK sign is not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Speed S (MPH)	Shoulder Taper: 1/3L	
	Length (Feet)	Minimum Number Of Devices
25	45	6
30	60	6
35	85	6
40	110	6
45	180	6
50	200	6
55	220	6

PATA 107



PATA 107

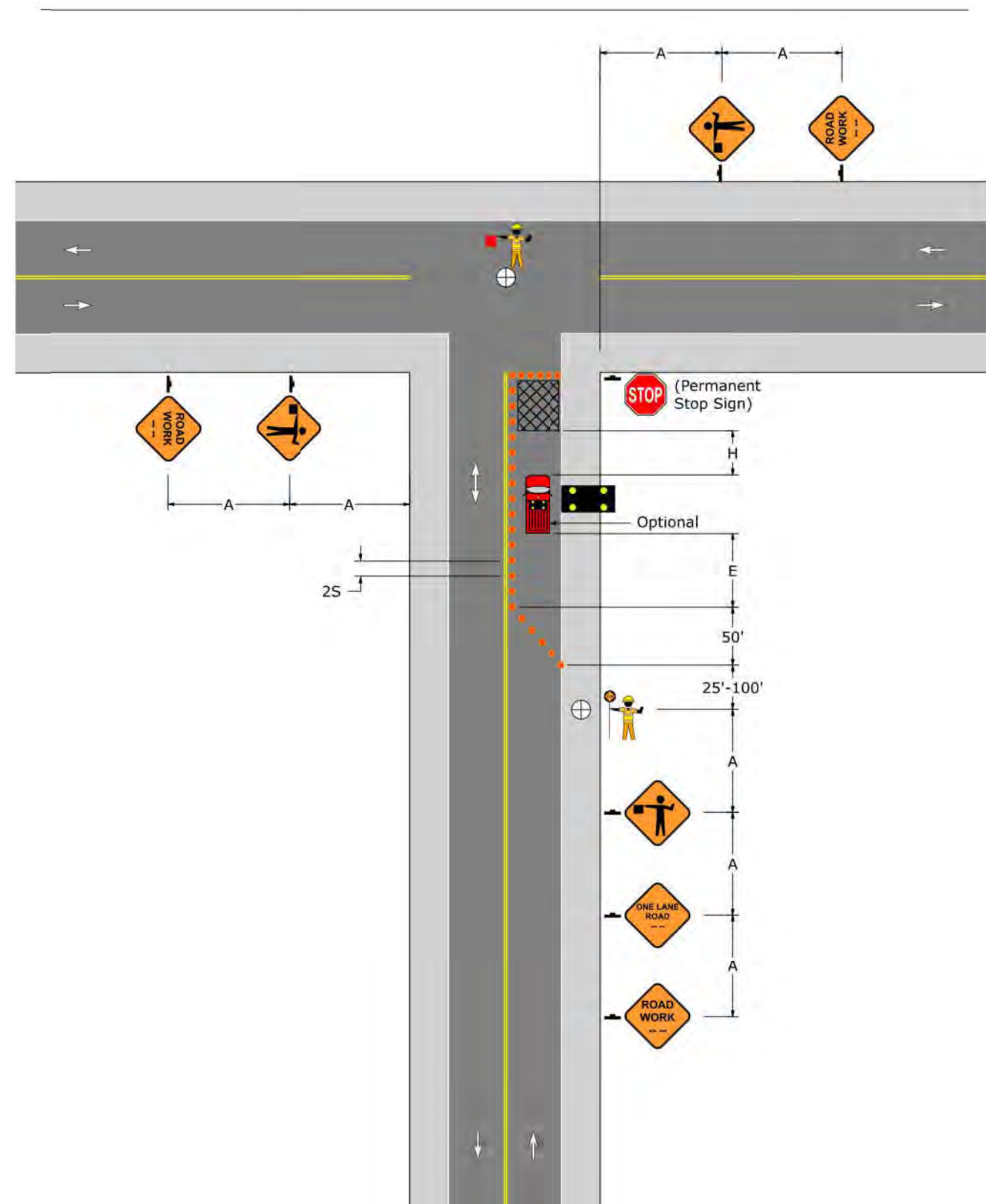
- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
 - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Speed S (MPH)	50' Per Lane Taper	
	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

PATA 109-A



PATA 109 (A Through L)

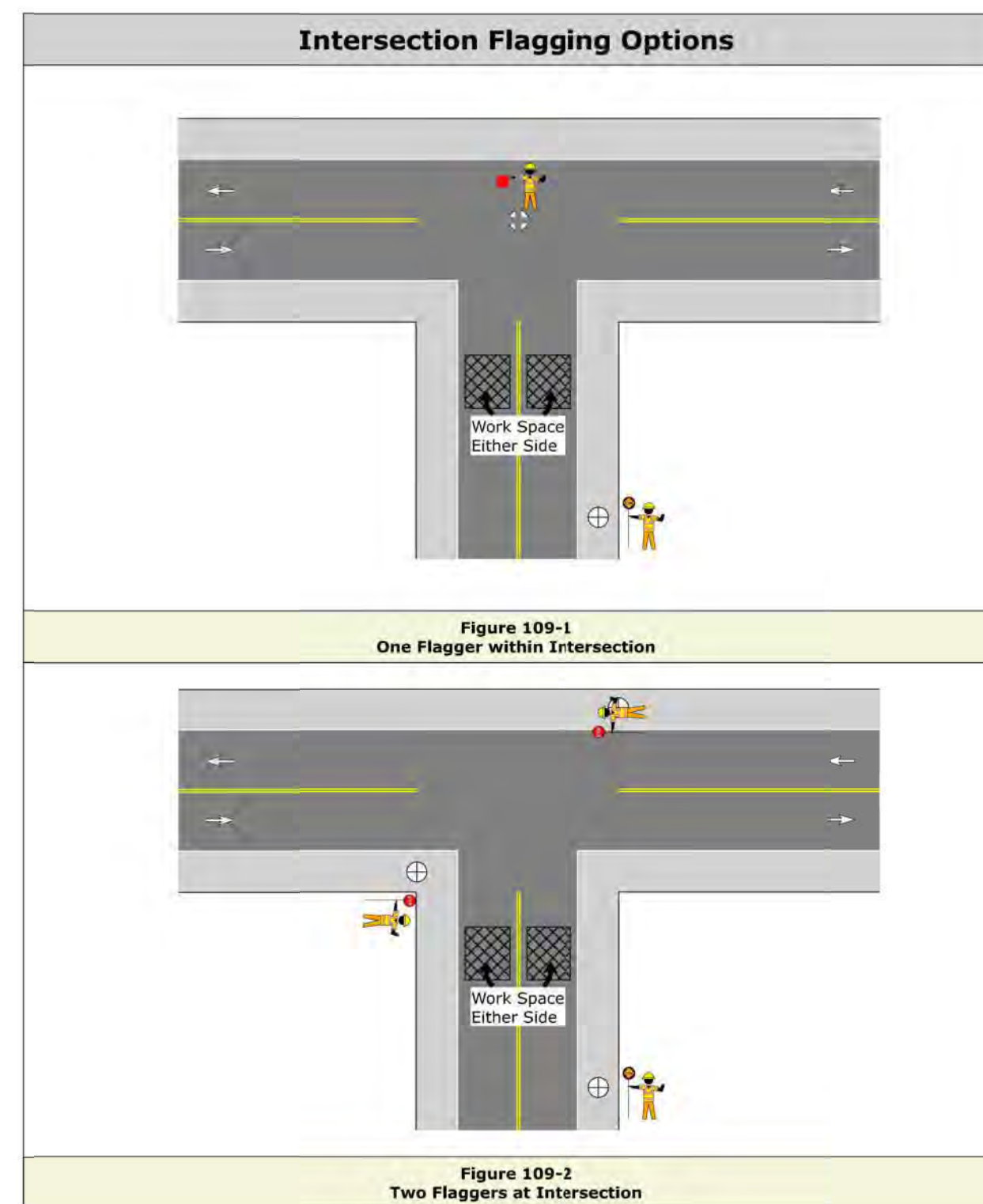
- PATA 109 drawings show work spaces on roads that approach and depart T-intersections with through-roads. Single-flagger or multi-flagger intersection control is illustrated for intersections with three types of permanent control:
 - One-Way Stop
 - All-Way Stop
 - Traffic Signal
- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
 - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

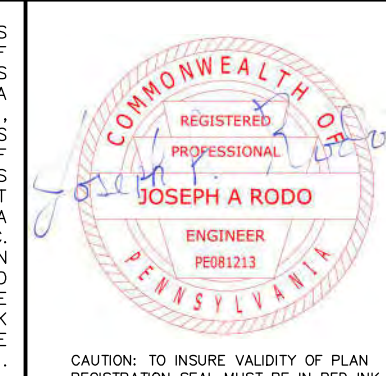
Speed S (MPH)	50' Per Lane Taper	
	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

PATA 109 (A Through L)



NO.	DATE	REVISION	DWN. BY	CKD. BY
4	8/27/21	4th HOP SUBMISSION	J.A.R.	C.J.C.F.
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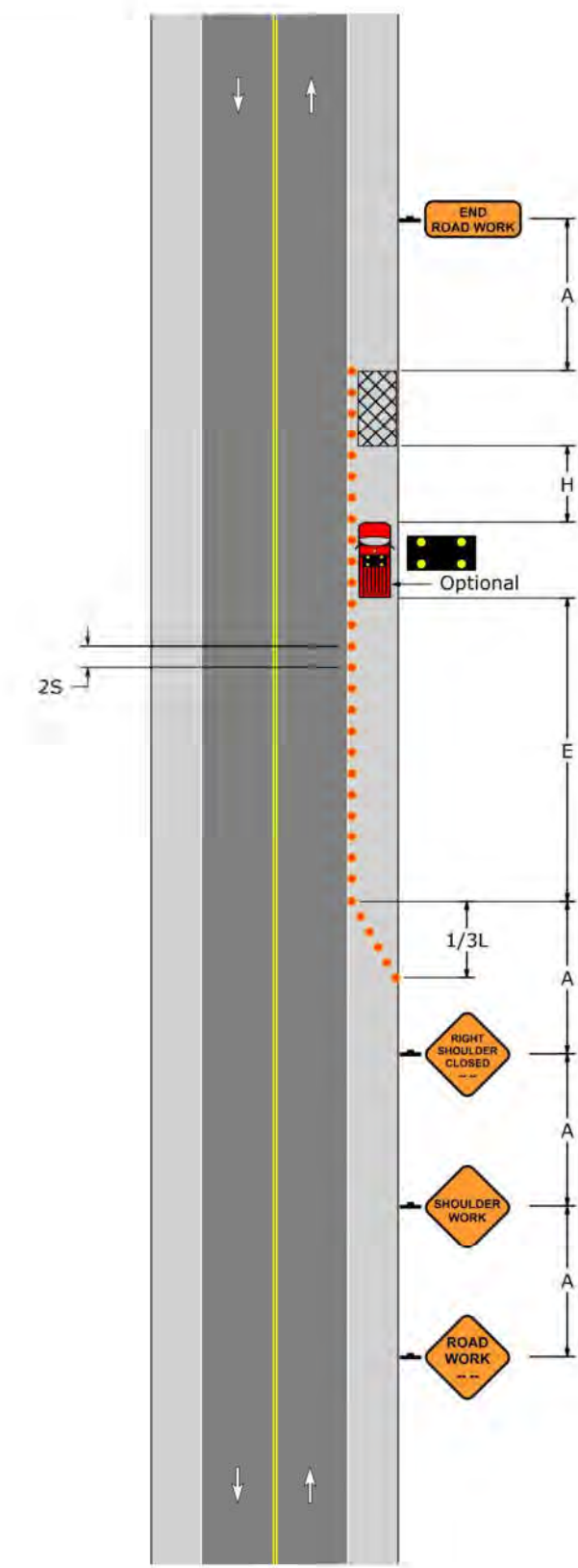


CEA
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MILMONT PARK, PA. 19033
TEL: (610) 532-2894
FAX: (610) 532-2923
EMAIL: office10@cataniaengineering.com

**HIGHWAY OCCUPANCY PLAN SET
HOP APPLICATION #233978
TRAFFIC CONTROL 2
E. ROSE VALLEY PEDESTRIAN
WALKWAY IMPROVEMENTS**

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

PATA 202-A



PATA 202-A

1. TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
2. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs			
W20-1	W21-5	W21-5BR	G20-2

Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
		25	50		
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number of Channelizing Devices		
Speed S (MPH)	Shoulder Taper: 1/3L	
	Length (Feet)	Minimum Number Of Devices
25	45	6
30	60	6
35	85	6
40	110	6
45	180	6
50	200	6
55	220	6

<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION</th> <th>DWN. BY</th> <th>CKD. BY</th> </tr> <tr> <td>4</td> <td>8/27/21</td> <td>4th HOP SUBMISSION</td> <td>J.A.R.</td> <td>C.J.C.F.</td> </tr> <tr> <td>3</td> <td>7/30/21</td> <td>3rd HOP SUBMISSION</td> <td>J.A.R.</td> <td>C.J.C.F.</td> </tr> <tr> <td>2</td> <td>5/21/21</td> <td>2nd HOP SUBMISSION</td> <td>J.A.R.</td> <td>C.J.C.F.</td> </tr> <tr> <td>1</td> <td>3/19/21</td> <td>1st HOP SUBMISSION</td> <td>J.A.R.</td> <td>C.J.C.F.</td> </tr> </table>		NO.	DATE	REVISION	DWN. BY	CKD. BY	4	8/27/21	4th HOP SUBMISSION	J.A.R.	C.J.C.F.	3	7/30/21	3rd HOP SUBMISSION	J.A.R.	C.J.C.F.	2	5/21/21	2nd HOP SUBMISSION	J.A.R.	C.J.C.F.	1	3/19/21	1st HOP SUBMISSION	J.A.R.	C.J.C.F.	<p>CATANIA ENGINEERING ASSOCIATES, INC. 520 WEST McDADE BLVD. MILMONT PARK, PA. 19033 TEL: (610) 532-2894 TEL: (610) 532-2894 FAX: (610) 532-2923 EMAIL: office10@cataniaengineering.com</p>
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<p>DWN. BY J.A.R. CKD. BY C.J.C.F.</p>		<p>SCALE: 1" = N/A DATE: 09/30/20</p>	<p>DRAWING NO. 83250-128 SHEET 13 OF 13 SHEETS</p>																								
<p>TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA</p>		<p>CAUTION: TO INSURE VALIDITY OF PLAN REGISTRATION SEAL MUST BE IN RED INK.</p>																									
<p>HIGHWAY OCCUPANCY PLAN SET HOP APPLICATION #233978 TRAFFIC CONTROL 3 E. ROSE VALLEY PEDESTRIAN WALKWAY IMPROVEMENTS</p>																											