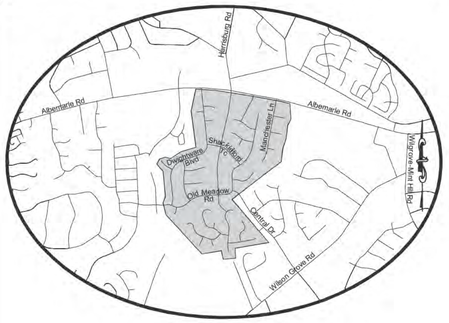
INDEX OF SHEETS

Cover Sheet	1
General Notes	2A
General Details	2B
Typical Sections	2C
Landscape Details	2D
Plan & Profile	3-15
Curb Return Plan	CR1
Traffic Control Plan	TC1 - TC2
Erosion Control Plan	EC1 - EC3
Cross Sections	X1 - XS34

TOTAL SHEETS 58



VICINITY MAP

NTS

CHARLOTTE

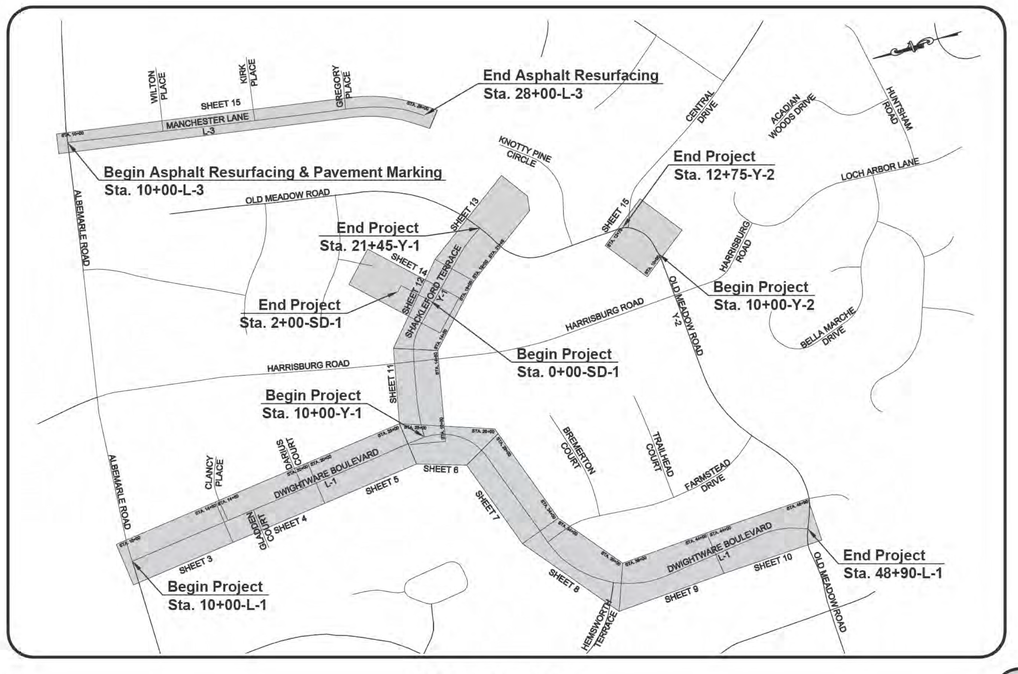
ENGINEERING & PROPERTY MANAGEMENT

Construction Plans of Proposed Eastwoods Neighborhood Improvements

City Project Number 512-08-053

Project Features:

Concrete Sidewalk and Curb and Gutter
Asphalt Milling and Resurfacing
Storm Drainage



LOCATION MAP

NTS

PE SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

Record Drawings

CONVENTIONAL SIGNS

Existing Right-of-Way
Existing Property Line
Proposed Property Line
Railroad Tracks
Proposed Edge of Pavement
Existing Edge of Pavement
Existing Fence
Proposed Fence
Slope Stake Line
Temporary Construction Easement
Sidewalk/Utility Easement
Permanent Utility Easement
Existing Storm Drainage Easement
Proposed Storm Drainage Easement
Proposed Sanitary Sewer Easement
Existing Gas Line
Existing Water Line
Existing Sanitary Sewer
Existing Underground Telecommunications
Existing Underground Fiber Optic
Existing Underground Cable
Existing Overhead Electric
Existing Underground Electric
Existing Storm Drainage
Proposed Storm Drainage
Proposed Saw Cut
Existing Handrail
Proposed Handrail
Existing Tree
Existing Water Meter/Proposed
Existing Mail Box/Proposed
Existing Water Valve
Existing Gas Valve
Existing Sanitary Sewer Manhole
Proposed Sanitary Sewer Manhole
Existing Storm Drain Manhole
Proposed Storm Drain Manhole
Existing Telephone Manhole
Proposed Telephone Manhole
Existing Electric Manhole
Proposed Electric Manhole
Existing Catch Basin
Proposed Catch Basin
Existing Light Pole
Proposed Light Pole
Existing Utility Pole
Proposed Utility Pole
Guy Wire
Iron Pin
Existing Fire Hydrant
Proposed Fire Hydrant
Existing Drop Inlet
Proposed Drop Inlet
Accessible Ramp
Tree Protection
Silt Fence
Proposed Curb & Gutter, Conc. Drive, Sidewalk
Proposed Asphalt Pavement
Proposed Gravel
Proposed Sidewalk Bridging Tree Roots

PLANS PREPARED BY:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

PROJECT LENGTH ± 1.35 MILES
TOTAL SIDEWALK ± 4800 LF
TOTAL CURB & GUTTER ± 5550 LF

2012 STANDARD SPECIFICATIONS

GRAPHIC SCALES

Plan View	20	40	60
Horz. Profile	20	40	60
Vert. Profile	4	8	12
Cross Section	5	10	15

RECOMMENDED FOR CONSTRUCTION

Contract Administration	
Construction Administration	
Landscape Management	
Engineering Services	
Utility Coordinator	
CDOT - Design	
CDOT - Implementation	
CMU	
Planning	
Storm Water Services	

CHARLOTTE
ENGINEERING & PROPERTY MANAGEMENT

Bid Set No.

APPROVED _____ CITY ENGINEER _____ DATE

Project Number: 512-08-053

100% SUBMITTAL

Project Name: Eastwoods Neighborhood Improvements

GENERAL NOTES

DATUM:

FIELD SURVEY WAS PROVIDED BY R. JOE HARRIS & ASSOCIATES, LLC. AND PBS&J.
SITE CONTROL WAS ESTABLISHED BY GPS METHOD. HORIZONTAL LOCATIONS ARE BASED ON PUBLISHED VALUES OF NAD 83/07. ELEVATIONS ARE BASED ON VERTICAL DATUM FROM PUBLISHED VALUES OF NAVD-88.

DRIVEWAYS AND SIDEWALKS:

PROPOSED DRIVEWAY ENTRANCE DIMENSIONS ARE FROM EXPANSION JOINT TO EXPANSION JOINT. MATCH REPLACEMENT MATERIALS TO THE EXISTING SURFACE ACCORDINGLY:

- CONCRETE - 6" PORTLAND CEMENT CONCRETE (3600 PSI).
- ASPHALT - (COMMERCIAL) 2" S9.5B SURFACE COURSE AND 4" I19.0B INTERMEDIATE COURSE.
  (RESIDENTAL) 2" S9.5B SURFACE COURSE AND 4" AGGREGATE BASE (ABC) COURSE.
- GRAVEL - 6" INCIDENTAL STONE

SIDEWALK SHALL BE 4" THICK, AND 6" THICK AT DRIVEWAY CROSSINGS, PER CITY STD. NO. 10.22.

DRAINAGE PIPES:

UNLESS OTHERWISE NOTED, ALL DITCHES BEHIND PROPOSED CURB AND GUTTER SHALL BE BACKFILLED AND ELIMINATED. ALL DRIVEWAY PIPES WHICH ARE NO LONGER NEEDED DUE TO THE ELIMINATION OF THE DITCH SHALL BE REMOVED OR PLUGGED ACCORDING TO THE FOLLOWING:

- FOR EXISTING CONCRETE DRIVES, PLUG PIPES UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
- FOR EXISTING ASPHALT AND GRAVEL DRIVES, REMOVE DRIVEWAY PIPES UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.

DRAINAGE STRUCTURES:

GRADES, ELEVATIONS, DIMENSIONS, AND LOCATIONS SHOWN ON THE PLANS FOR DRAINAGE STRUCTURES ARE APPROXIMATE AND MAY BE ADJUSTED DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER, TO ACCOMMODATE UNFORESEEN EXISTING CONDITIONS. ALL STATION & OFFSET CALLOUTS FOR CATCH BASINS ARE TO THE CENTER OF THE CATCH BASIN AT THE LIP OF GUTTER. CALLOUTS ARE TO THE CENTER OF STRUCTURE FOR DROP INLETS AND MANHOLES. CALLOUTS FOR FLARED END SECTIONS ARE TO THE CENTER OF FLARED OUTLET END. CALLOUTS FOR HEADWALLS ARE TO FRONT OF WALL AT TOP OF PIPE. ALL PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE PLANS.

WEEPHOLES ARE TO BE CONSTRUCTED IN ALL DRAINAGE STRUCTURES, A MINIMUM OF 1 WEEPHOLE PER STRUCTURE. WEEPHOLES ARE TO BE CONSTRUCTED IN THE BOTTOM 1/3 OF STRUCTURE AND COVERED ON THE OUTSIDE OF THE STRUCTURE BY A BAG MADE OF FILTER FABRIC AND FILLED WITH #78 STONE. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

TOLERANCES:

STORM DRAINAGE PIPES SHALL BE CONSTRUCTED TRUE TO LINE AND GRADE AS SHOWN IN THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER. PIPES SHALL MATCH PROPOSED INVERT ELEVATIONS WITHIN A TOLERANCE OF 0.10 FEET.

PROPOSED CURB ELEVATIONS:

EXISTING PAVEMENT SHALL BE RETAINED UNLESS OTHERWISE NOTED. CURB ELEVATIONS SHALL BE SET BY THE CONTRACTOR, TO THE PROPOSED ELEVATIONS ON THE PLANS, AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENT OF CURB ELEVATIONS DURING CONSTRUCTION TO ENSURE PROPER LONGITUDINAL SLOPE AND CROSS SLOPE OF THE PROPOSED CURB LINE. PROPOSED CURB ELEVATIONS ARE PROVIDED AT THE LIP OF GUTTER.

BACKFILLING:

EXISTING CONDITIONS MAY WARRANT BACKFILLING WITH BORROW MATERIAL, SELECT MATERIAL, OR LOCAL SUITABLE MATERIAL BEHIND PROPOSED CURBS AS SHOWN ON PLANS.

UTILITIES:

UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE CITY WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION.
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITY OWNERS, THE CITY UTILITY COORDINATOR AND CITY INSPECTOR WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. THE CONTRACTOR SHALL HOLD THE CITY HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTORS FINANCIAL RESPONSIBILITY. AS NEEDED, THE CONTRACTOR SHALL ADJUST/RELOCATE THE SANITARY SEWER AND WATER LINES ONLY. ALL OTHER ADJUSTMENTS/RELOCATIONS WILL BE PERFORMED BY THE VARIOUS UTILITY OWNERS. THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITY OWNERS SO AS NOT TO ADVERSELY AFFECT THE PROJECT SCHEDULE. THE CITY WILL NOT BE HELD RESPONSIBLE FOR ANY DELAYS OR DISRUPTIONS TO THE WORK SCHEDULE OF OTHER UTILITY OWNERS.

- FOR UTILITY LOCATES CALL NORTH CAROLINA ONE-CALL @ 1-800-632-4949.
- FOR LOCATES OF UTILITIES NOT MEMBERS OF NORTH CAROLINA ONE-CALL CONTACT PROJECT MANAGER & UTILITY COORDINATOR.

THE CONTRACTOR SHALL ADJUST ALL WATER VALVES, WATER METER BOXES AND WATER VAULTS TO FINISHED GRADE. WATER METERS LOCATED IN SIDEWALKS OR CONCRETE DRIVEWAYS SHALL BE INSTALLED WITHIN CONCRETE BOXES.

GAS LINES WILL BE ADJUSTED/RELOCATED AS NEEDED BY PIEDMONT NATURAL GAS. THE CONTRACTOR SHALL CONTACT PIEDMONT NATURAL GAS AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL SUPPORT AND PROTECT ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCH EXCAVATION AND/OR PIPE INSTALLATION.

MILLING:

THE CONTRACTOR SHALL MILL TIE INS TO EXISTING STREET SECTIONS TO CREATE A SMOOTH TRANSITION FROM EXISTING TO NEW ASPHALT PAVEMENT. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION WHEN CROSSING FROM NEW TO EXISTING ASPHALT PAVEMENT. ALL MILLING SHALL CONFORM TO SECTION 607 OF THE NCDOT STANDARD SPECIFICATIONS.

GENERAL NOTES

EXISTING SANITARY SEWER AND WATER LINES:

PRIOR TO THE BEGINNING OF ANY WATER AND/OR SANITARY SEWER WORK, CONTACT ROBERT FROST, P.E. AT 704-621-1827, AND AN INSPECTOR WILL BE PROVIDED FOR WORK OVERSIGHT.

WHERE SANITARY SEWERS AND WATER LINES ARE ENCOUNTERED, THE CONTRACTOR SHALL USE CARE IN WORKING AROUND OR NEAR THEM. IF AN EXISTING SEWER OR WATER LINE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPLACE THE SEWER OR WATER LINE WITH CLASS 350 - DUCTILE IRON PIPE. THE CONTRACTOR SHALL REPLACE A MINIMUM OF 18 FEET OF SANITARY SEWER LINE AND/OR WATER LINE WITH CLASS 350 - DUCTILE IRON PIPE WHEN DRAINAGE PIPE COMES WITHIN 24" OF SAID LINES HORIZONTALLY OR 12" VERTICALLY AS REQUIRED BY CHARLOTTE-MECKLENBURG UTILITIES OR NOTED ON THE PLANS. ALL WATER VALVES, WATER METER BOXES AND WATER VAULTS IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO THE FINISHED GRADE BY THE CONTRACTOR.

SANITARY SEWER AND WATER SERVICE LATERALS ARE NOT SHOWN ON PLANS AND MAY BE ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH THE CMU INSPECTOR TO ENSURE THAT ALL EXISTING SERVICES ARE RELOCATED, BY THE CONTRACTOR, IN COMPLIANCE WITH CMU STANDARDS. THIS WORK IS INCIDENTAL TO SEWER/WATER LINE REPLACEMENT.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR MAY MAKE HIS OWN INVESTIGATION TO DETERMINE SUBSURFACE CONDITIONS.

SAWCUTS:

THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT AND/OR CONCRETE SURFACES PRIOR TO REMOVAL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SAWCUT SHALL BE 1 FOOT MIN. FROM EXISTING EDGE OF PAVEMENT. SAWCUT PAVEMENT SHALL BE REPLACED AS WELL AS ADDITIONAL PAVEMENT REQUIRED TO TIE-IN TO FACE OF PROPOSED CURB AND GUTTER.

ACCESSIBLE RAMPS AND DEPRESSED CURB:

THE CONTRACTOR SHALL CONSTRUCT 6-INCH THICK CONCRETE ACCESSIBLE RAMPS AT INTERSECTIONS IN ACCORDANCE WITH THE LATEST REVISIONS FOR ACCESSIBLE RAMP DETAILS, CONSTRUCTION PLANS & NCDOT STANDARD DRAWINGS.

TRAFFIC CONTROL:

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH) AND THE TRAFFIC CONTROL PLANS ON SHEETS TC1-TC2.

TREES, SHRUBS, AND HEDGES:

CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO REMOVING ANY TREES. IN ADDITION, ALL TREES LOCATED WITHIN THE LOD THAT ARE TO REMAIN AFTER CONSTRUCTION SHALL BE INSPECTED BE THE CITY TO VERIFY THEY ARE SUITABLE TO REMAIN.

FOLLOWING CONSTRUCTION STAKING THE PROJECT TEAM (CONTRACTOR, CITY INSPECTOR, CITY ARBORIST AND CONSULTANT, IF APPLICABLE) WILL HOLD AN ON-SITE MEETING TO ENSURE THE LIMITS OF DISTURBANCE AND THAT TREES PROPOSED FOR PROTECTION ARE CLEARLY IDENTIFIED. THE TEAM WILL WALK THE PROJECT AREA AND AGREE ON THE TREES TO BE PROTECTED AND THOSE TO REMOVE, DISCUSS PROPOSED CONSTRUCTION ACTIVITIES, AND IDENTIFY ANY ADDITIONAL TREES TO PROTECT THAT WERE NOT ORIGINALLY MARKED AS SUCH. THE CONTRACTOR WILL BE GIVEN APPROVAL FOR TREE REMOVAL, IN WRITING, AFTER APPROPRIATE TREE PROTECTION HAS BEEN INSTALLED AND BEFORE ANY CLEARING OR REMOVAL CAN BEGIN.

THE CONTRACTOR SHALL REMOVE TREES, SHRUBS, AND HEDGES WITHIN THE LIMITS OF DISTURBANCE UNLESS SHOWN ON THE PLANS TO BE PROTECTED AND THOSE THAT FALL WITHIN THE TREE PROTECTION BARRIERS. WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER OR OTHER APPROVED METHOD IN ACCORDANCE WITH SECTION 01000 OF THE CITY OF CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS. PRUNING SHALL BE PER THE LATEST STANDARD OF THE LANDSCAPE CONSTRUCTION STANDARDS MANUAL (TYP.) USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK. USE CLD STD. 40.11 FOR BRIDGING TREE ROOTS. TREES SPECIFIED BY THE PLANS TO HAVE ASPHALT CURBING MUST USE CLD STD. 40.13. TREE PROTECTION SHALL BE IN ACCORDANCE WITH CLD STD. 40.02 AND WITH SECTION 1000 OF THE CITY OF CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS. WHEN THE TREE IS CLOSE TO THE WORK AREA TREE PROTECTION CLD STD. 40.12 SHALL BE USED.

THERE WILL BE NO ADDITIONAL PAYMENT FOR TREE PROTECTION INSTALLED AROUND ADDITIONAL TREES IDENTIFIED FOR PROTECTION.

THE CONTRACTOR ASSUMES RESPONSIBILITY FOR "IN-KIND" REPLACEMENT OF TREES DAMAGED THAT HAVE BEEN MARKED FOR PROTECTION OR NOT MARKED FOR REMOVAL.

SIDE SLOPES:

LIMITS OF PROPOSED SLOPES ARE INDICATED IN THE PLANS, DETAILS, AND STANDARD DRAWINGS. ALL SIDE SLOPES ARE 3:1 MAXIMUM AS SHOWN IN THE TYPICAL SECTIONS, UNLESS NOTED OTHERWISE IN THE PLANS. IF DIRECTED BY THE ENGINEER, A CUT SLOPE OF 2:1 MAXIMUM CAN BE USED AROUND TREES TO MINIMIZE DAMAGE TO THE TREE ROOTS, UNLESS OTHERWISE NOTED ON THE PLANS.

EROSION CONTROL:

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN EROSION CONTROL DEVICES AND TO PREVENT SEDIMENTATION DAMAGE TO ALL ADJACENT PROPERTIES AND STREAMS IN ACCORDANCE WITH THE APPROPRIATE CITY,COUNTY AND STATE EROSION AND SEDIMENT CONTROL ORDINANCES, STANDARD DETAILS AND/OR DETAILS SHOWN ON SHEETS EC1-EC3. STANDING WATER WITHIN THE PROJECT LIMITS SHOULD BE PREVENTED. ALL DISTURBED AREAS SHALL BE STABILIZED AND SEEDED AND MULCHED AT THE DIRECTION OF THE ENGINEER.

MAIL BOXES:

THE CONTRACTOR SHALL RELOCATE ALL MAIL BOXES, AS REQUIRED BY SECTION 107-11 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. COORDINATE THIS WORK WITH THE U.S. POSTAL SERVICE.

FENCES:

ALL FENCES WITHIN THE CONSTRUCTION LIMITS THAT REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER ARE TO BE REMOVED AND/OR REPLACED AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL REMOVE, RESET, AND RELOCATE ALL FENCES AS NOTED ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

PAVEMENT DEGRADATION FEE:

CDOT HAS DETERMINED THAT NO PAVEMENT DEGRADATION FEE IS TO BE ASSESSED.

ABBREVIATIONS

ABAND	ABANDONED
ACIC	ASPHALT CONCRETE INTERMEDIATE COURSE
ACSC	ASPHALT CONCRETE SURFACE COURSE
AD	ALGEBRAIC DIFFERENCE
ASPH	ASPHALT
APPROX	APPROXIMATELY
B-B	BACK TO BACK
B/C	BACK OF CURB
BFA	BACK FLOW ASSEMBLY
BIT.	BITUMINOUS
BM	BENCHMARK
BOB	BOTTOM OF BANK
B.O.W.	BOTTOM OF WALL
BRG	BEARING
BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
C&G	CURB AND GUTTER
C/L FENCE	CHAIN LINK FENCE
C/L	CENTERLINE
℄	CENTERLINE
CB	CATCH BASIN
CLD	CHARLOTTE LAND DEVELOPMENT
CLR	CLEARANCE
CMP/CSP	CORRUGATED METAL/STEEL PIPE
CMU/CMUD	CHARLOTTE-MECKLENBURG UTILITIES
CONC	CONCRETE
CONST	CONSTRUCTION
CR	CURB RETURN
DB	DEED BOOK
DCB	DOUBLE CATCH BASIN
DI	DROP INLET
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DUKE	DUKE ENERGY
DW	DRIVEWAY
E	EAST/EASTING
EA	EACH
EL/ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVCS	END VERTICAL CURVE STATION
EVCE	BEGIN VERTICAL CURVE ELEVATION
EW	ENDWALL
EX/EXIST	EXISTING
F&G	FRAME & GRATE
F/C	FACE OF CURB
FES	FLARED END SECTION
FH	FIRE HYDRANT
FOC	FIBER OPTIC CABLE
GL	GAS LINE
GV	GAS VALVE
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HIGH STRENGTH STEEL
HW	HEADWALL
INT	INTERSECTION
INV	INVERT
IP	IRON PIN
JB	JUNCTION BOX
L	LENGTH
lb	POUND
LEOP	LEFT EDGE OF PAVEMENT
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MONO	MONOLITHIC
mph	MILES PER HOUR
MTL	METAL
N	NORTH/NORTHING
NE	NORTHEAST
NTS	NOT TO SCALE

NW	NORTHWEST
OC	ON CENTER
OCB	OFFSET CATCH BASIN
PAVT	PAVEMENT
PCBC	PRECAST CONCRETE BOX CULVERT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PERM	PERMANENT
PG	PAGE
PI	POINT OF INTERSECTION
PK	PK NAIL
PNG	PIEDMONT NATURAL GAS
POC	POINT ON CURVE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PUE	PERMANENT UTILITY EASEMENT
R&C	RING & COVER
R	RADIUS
REOP	RIGHT EDGE OF PAVEMENT
RT	RIGHT
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RCEP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
RELOC	RELOCATE
R/W	RIGHT OF WAY
S	SOUTH
SB	SINGLE STORY BUILDING
SBB	SINGLE STORY BRICK BUILDING
SD	STORM DRAIN
SDE	PERMANENT STORM DRAINAGE EASEMENT
SDMH	STORM DRAIN MANHOLE
STCB	SLAB TYPE CATCH BASIN
SE	SOUTHEAST
SF	SQUARE FEET
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
S/R FENCE	SPLIT RAIL FENCE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STR	STRUCTURE
STD	STANDARD
SW	SOUTHWEST
TAN	TANGENT
TBJB	TRAFFIC BEARING JUNCTION BOX
TBM	TEMPORARY BENCHMARK
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEMP	TEMPORARY
TOB	TOP OF BANK
T.O.W.	TOP OF WALL
TP	TRAVERSE POINT
TW	TOP OF WALL
T/W	TEST WIRE
TYP	TYPICAL
U/G	UNDERGROUND
UP	UTILITY POLE
VC	VERTICAL CURVE
VCP	VITREOUS CLAY PIPE
VERT	VERTICAL
W	WEST
W/	WITH
WL	WATER LINE
WM	WATER METER
W/O	WITHOUT
W VAULT	WATER VAULT
WV	WATER VALVE
60P	SIXTY PENNY NAIL SET
'	FOOT
"	INCH

STANDARDS

THE FOLLOWING STANDARDS AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE CONSIDERED A PART OF THESE PLANS. NCDOT STANDARDS SHALL BE USED. CHARLOTTE LAND DEVELOPMENT STANDARDS MAY BE USED IF THERE IS NOT AN APPLICABLE NCDOT STANDARD.

NCDOT:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROADWAY STANDARD DRAWINGS (2012)

STD. NO.	TITLE:
200.02	METHOD OF CLEARING - METHOD II
300.01	METHOD OF PIPE INSTALLATION - METHOD A
838.01	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
840.01	STANDARD BRICK CATCH BASIN
840.03	STANDARD CATCH BASIN FRAME, GRATE, AND HOOD
840.16	DROP INLET FRAME AND GRATES
840.32	BRICK JUNCTION BOX (12" THRU 66" PIPE)
840.51	BRICK MANHOLE (12" THRU 36" PIPE)
840.54	MANHOLE FRAME AND COVER
840.71	CONCRETE AND BRICK PIPE PLUG
840.72	PIPE COLLAR
840.66	DRAINAGE STRUCTURE STEPS
846.01	CONCRETE CURB, GUTTER, AND CURB & GUTTER
848.03	DRIVEWAY TURNOUT
1205.01	PAVEMENT MARKINGS
1606.01	SPECIAL SEDIMENT CONTROL FENCE

CHARLOTTE:

CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL (JANUARY 2012 AND LATEST REVISION)

CLD STD. NO.	TITLE:
10.17A	STANDARD CURB AND GUTTER
10.17B&C	CURB AND GUTTER
10.19	CURB TRANSITION 2'-6" CURB AND GUTTER TO 2'-0" VALLEY GUTTER
10.22	CONCRETE SIDEWALKS
10.25A	RESIDENTIAL DROP CURB TYPE I DRIVEWAY WITH PLANTING STRIP (2'-6" CURB AND GUTTER)
10.27A	RESIDENTIAL DRIVEWAY (TYPE I) FOR 2'-0" VALLEY GUTTER
10.29	CATCH BASIN FRAME IN VALLEY GUTTER
10.30	CATCH BASIN PLACEMENT AT INTERSECTIONS
10.31A&B	ACCESSIBLE RAMP STANDARD WITH PLANTING STRIP 2'-6" CURB AND GUTTER
10.32A&B	ACCESSIBLE RAMP STANDARD WITHOUT PLANTING STRIP 2'-6" CURB AND GUTTER
10.33A&B	ACCESSIBLE RAMP STANDARD 2'-0" VALLEY GUTTER
10.35A	STANDARD PLACEMENT OF ACCESSIBLE RAMP AND GENERAL NOTES
10.35B	TRUNCATED DOMES PLAN AND CROSS SECTION
20.00A,B,&C	NCDOT STANDINGS APPROVED FOR USE IN THE CITY OF CHARLOTTE AND CHARLOTTE
20.03	BRICK DOUBLE CATCH BASIN 15" THRU 36" PIPE
20.05A	SLAB TYPE CATCH BASIN 15" THRU 48" PIPE
20.25	TRENCH DETAIL FOR STORM DRAIN
30.06A	TEMPORARY SILT FENCE
30.08	STONE INLET PROTECTION
30.10	TEMPORARY ROCK CHECK DAM
30.11A	STABILIZED CONSTRUCTION ENTRANCE
30.12	GRAVEL AND RIP RAP FILTER BERM BASIN
30.15	CATCH BASIN INLET PROTECTION
30.17A&B	SEEDING SCHEDULE
40.02	TREE PROTECTION DETAIL
40.11	BRIDGING TREE ROOTS
40.12	TEMPORARY TREE PROTECTION DETAIL
40.13	ASPHALT CURB PLACEMENT AT EXISTING TREES
40.14	ROCK CHIMNEY

CMUD:

CHARLOTTE-MECKLENBURG UTILITIES DEPARTMENT (CMUD)

WATER STD. NO.	TITLE:
FF	CAST IRON VALVE BOX DETAIL
HH	VALVE BOX INSTALLATION
5, 5A	FIRE HYDRANT DETAIL
AA	PRECAST CONCRETE METER BOX FOR 3/4"WATER METER
BB	PRECAST CONCRETE METER BOX FOR 1" WATER METER

CHARLOTTE.

Plans Prepared By:
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

JOB NO.	512-08-053
SCALE	NA
CAD FILE PATH	H:\LandProjects\080214_01_Eastwoods\plotsheets
PREPARED BY	BS, WB
CHECKED BY	BS,WB
APPROVED BY	SH
DATE	11-27-13

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

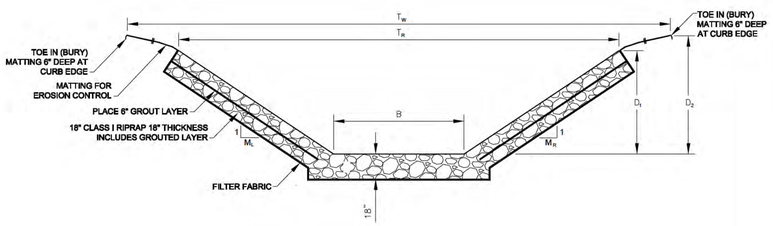
GENERAL NOTES

SHEET 2A OF 2D

DETAILS, STORM DRAINAGE STRUCTURE SCHEDULE, & CUT/FILL QUANTITIES

CHANNEL SECTION	B (ft.)	T_W (ft.)	T_R (ft.)	M_R	M_L	D_1 (ft.)	D_2 (ft.)
1	3	VARIES	VARIES	1.5	1.5	VARIES	1.5

Tw = TOP WIDTH OF CHANNEL
TR = TOP WIDTH OF RIP RAP CHANNEL
D1= DEPTH OF CHANNEL
D2= DEPTH OF RIP RAP CHANNEL



NOTES:

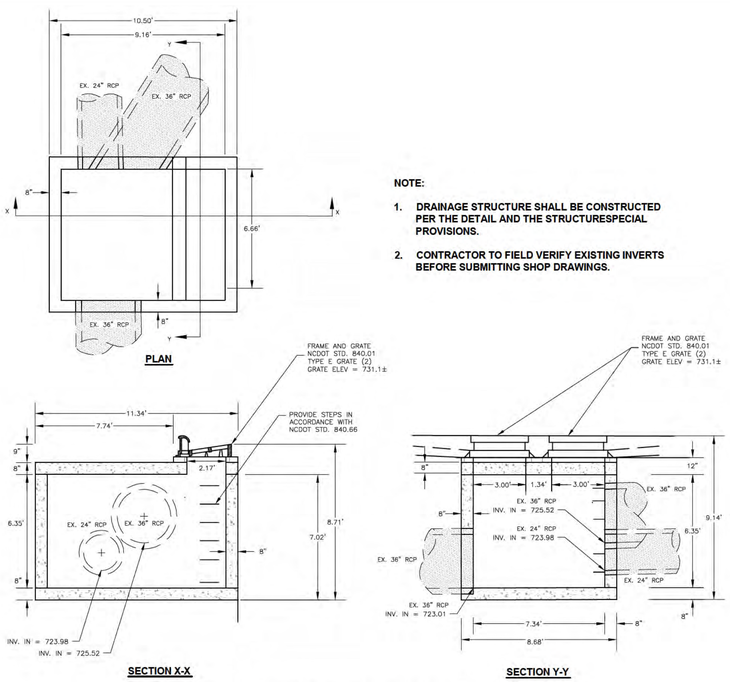
1. MAINTAIN A MINIMUM OF 1.5:1 SLOPE FOR BANKS. MAINTAIN EXISTING CHANNEL SLOPE.
2. PLACE FIRST 9" OF CLASS I RIPRAP A MIN. OF 6" THICK. PLACE AN ADDITIONAL 9" OF CLASS I RIPRAP IN WET GROUT. TOP LAYER OF RIPRAP IS TO HAVE SIMILAR APPEARANCE TO PLAIN RIPRAP.
3. GROUT SHALL BE CONCRETE MEETING THE CONTRACT SPECIFICATIONS. THE QUANTITY OF GROUT SHALL BE PAID FOR ON A CUBIC YARD (CY) BASIS. SUCH PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING, MIXING, AND PLACING GROUT, INCLUDING HAND PLACEMENT OF RIPRAP AS NEEDED FOR TOP LAYER.
4. EROSION CONTROL MATTING SHALL CONSIST OF 70% STRAW AND 30% COCONUT AND BE BACKED. EROSION CONTROL MATTING SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIAL PROVISIONS, AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

GROUTED RIPRAP DETAIL

NOT TO SCALE

DRAINAGE STRUCTURE SCHEDULE

STATION	SHEET NUMBER	OFFSET LOCATION (Ft.)	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	RIM/GRATE ELEVATION	INVERT IN PIPE SIZE	INVERT IN ELEVATION/	INVERT OUT ELEVATION	PIPE LENGTH/ SIZE CLASS III RCP 15"	PIPE LENGTH/ SIZE CLASS III RCP 24"	PIPE LENGTH/ SIZE CLASS III RCP 36"	FRAME, GRATE, & HOOD NCDOT STD. 840.03 TYPE OF GRATE E	F	G	RING & COVER NCDOT STD. 840.54	FRAME & GRATE NCDOT STD. 840.16	TOTAL STRUCTURE DEPTH (LF)	STRUCTURE DEPTH GREATER THAN 5' (LF)	CB NCDOT STD. 840.01	DCB CLD STD. 20.03	DCB DRAINAGE STRUCTURE (DETAILS #9 AND #10)	ST'CB CLD STD. 20.05A	DI NCDOT STD. 840.32 (BRICK JUNCTION BOX)	MH NCDOT STD. 840.51	EW NCDOT STD. 838.01
20+12.00 (L-1)	5	11.00' RT.	5	4	763.6+/-	15"		759.81	137					1			3.79		1						
18+75.00 (L-1)	4	11.00' RT.	4	3	762.3+/-	15"	758.73	758.53	184					1			3.77		1						
16+91.00 (L-1)	4	11.00' RT.	3	2	760.2+/-	15"	757.19	756.99	90					1			3.21		1						
16+01.00 (L-1)	4	11.00' RT.	2	1	759.5+/-	15"	756.38	756.18	100					1			3.32		1						
15+02.00 (L-1)	4	17.00' RT.	1	EX	758.3+/-	15" (PROP.) 15" (EX)	755.22	754.85						1			3.45		1						
31+71.84 (L-1)	7	11.00' RT.	6	EX	750.3+/-	15" (PROP.) 15" (EX)	746.67	745.78 (EX)	8			2					4.52			1					
43+46.80 (L-1)	9	11.00' RT.	7	EX	718.2+/-	15" (EX) 15" (PROP.)	710.61	710.29	8				2				7.91	2.91		1					
13+37.21 (Y-1)	11	12.00' RT.	8	EX	748.7+/-	15" (EX)	-	744.27 (EX)					1				4.43		1						
17+50.44 (Y-1)	12	12.00' RT.	9	10	731.1+/-	36" (EX) 24" (EX)	725.52 (EX) 723.98 (EX)	723.01 (EX)					2				8.09	3.09			1				
21+03.50 (Y-1)	13	12.00' RT.	10	EX	727.9+/-	15" (EX) 36" (EX)	719.63 (EX) 718.66 (EX)	718.66 (EX)				2					9.23	4.23			1				
0+99 (SD-1)	14	0.00'	11	9	732.7+/-	36" (PROP.) 36" (EX)	727.61	727.41 (EX)						1			5.29	0.29	1						
0+21.73 (SD-1)	14	0.00'	12	11	732.9+/-	36"	728.19	728.06			22					1	4.84						1		
2+70.22 (SD-1) 1+00, 0.85' LT (SD-2)	14	0.00'	13	12	736.8+/-	36"	733.24 (EX) 732.50 (24")	729.67			147					1	7.13	2.13				1			
2+85.63 (SD-1)	14	0.00'	14	13	737.5+/-	24"	-	734.00		15							3.50								1
1+08.00 (SD-2)	14	0.00'	15	13	737.2+/-	15" (EX) 15" (PROP.)	735.11	733.60	8						1		3.60							1	
								TOTALS	535	15	169	4	5	6	1	2	76	13	7	2	2	1	1	1	1

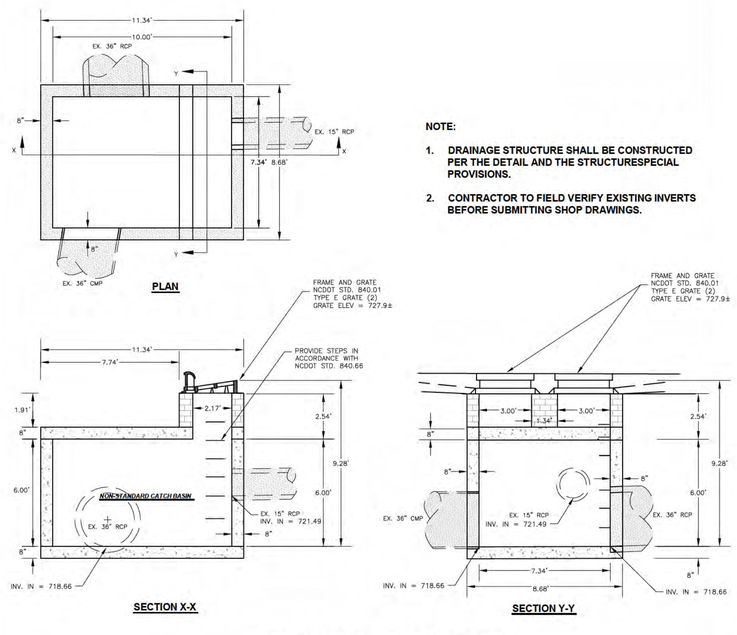


NOTE:

1. DRAINAGE STRUCTURE SHALL BE CONSTRUCTED PER THE DETAIL AND THE STRUCTURESPECIAL PROVISIONS.
2. CONTRACTOR TO FIELD VERIFY EXISTING INVERTS BEFORE SUBMITTING SHOP DRAWINGS.

DRAINAGE STRUCTURE #9

NOT TO SCALE



NOTE:

1. DRAINAGE STRUCTURE SHALL BE CONSTRUCTED PER THE DETAIL AND THE STRUCTURESPECIAL PROVISIONS.
2. CONTRACTOR TO FIELD VERIFY EXISTING INVERTS BEFORE SUBMITTING SHOP DRAWINGS.

DRAINAGE STRUCTURE #10

NOT TO SCALE

CUT/FILL QUANTITIES

SHEET	STREET	TOTAL CUT (CY)	TOTAL FILL (CY)	SHEET	STREET	TOTAL CUT (CY)	TOTAL FILL (CY)
X1	DWIGHTWARE BLVD. L-1	0	0	X16	DWIGHTWARE BLVD. L-1	0	55.38
X2	DWIGHTWARE BLVD. L-1	0	0.26	X17	DWIGHTWARE BLVD. L-1	0	38.93
X3	DWIGHTWARE BLVD. L-1	0.24	30.42	X18	DWIGHTWARE BLVD. L-1	0	40.68
X4	DWIGHTWARE BLVD. L-1	0	99.96	X19	DWIGHTWARE BLVD. L-1	0	63.98
X5	DWIGHTWARE BLVD. L-1	0	199.38	X20	DWIGHTWARE BLVD. L-1	0	50.42
X6	DWIGHTWARE BLVD. L-1	0	113.45	X21	DWIGHTWARE BLVD. L-1	0	94.61
X7	DWIGHTWARE BLVD. L-1	0	66.42	X22	SHACKLEFORD TERRACE Y-1	0	41.45
X8	DWIGHTWARE BLVD. L-1	0	173.48	X23	SHACKLEFORD TERRACE Y-1	0	17.95
X9	DWIGHTWARE BLVD. L-1	0	78.54	X24	SHACKLEFORD TERRACE Y-1	0	53.34
X10	DWIGHTWARE BLVD. L-1	0	116.34	X25	SHACKLEFORD TERRACE Y-1	0	18.99
X11	DWIGHTWARE BLVD. L-1	0	50.76	X26	SHACKLEFORD TERRACE Y-1	0	24
X12	DWIGHTWARE BLVD. L-1	0	83.23	X27	SHACKLEFORD TERRACE Y-1	0	42.04
X13	DWIGHTWARE BLVD. L-1	0	35.46	X28	SHACKLEFORD TERRACE Y-1	0	35.62
X14	DWIGHTWARE BLVD. L-1	0	57.5	X29	SHACKLEFORD TERRACE Y-1	0	23.03
X15	DWIGHTWARE BLVD. L-1	0	39.04	X30	OLD MEADOW ROAD Y-2	0.79	8.9
	SUB-TOTAL	0.24	1144.24		SUB-TOTAL	0.79	609.32
					TOTAL	2	1754

CHARLOTTE

Plans Prepared By:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER SANDRA E. HAYES 11/27/13

1"=20'	SCALE
BS, WB	CHECKED BY
11-27-13	DATE
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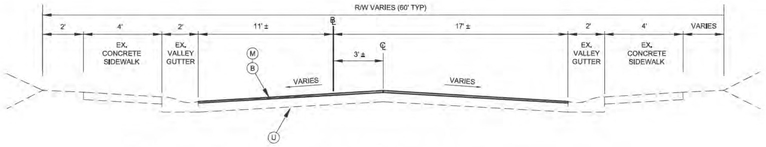
EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

DETAILS, STORM DRAINAGE SCHEDULE, & CUT/FILL QUANTITIES

SHEET 2B OF 2D

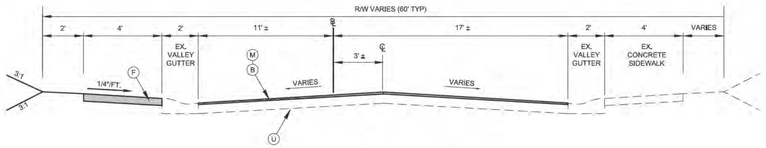
TYPICAL SECTIONS, PAVEMENT SCHEDULE, AND PAVEMENT REPAIR DETAILS



TYPICAL SECTION #1

NOT TO SCALE

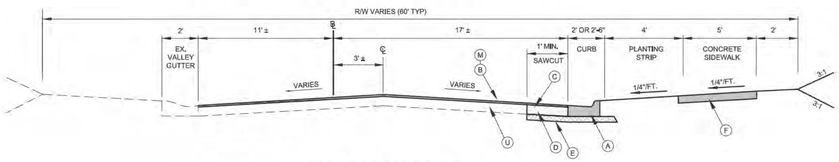
DWIGHTWARE BLVD - L-1: STA. 10+39 - STA. 13+04



TYPICAL SECTION #2

NOT TO SCALE

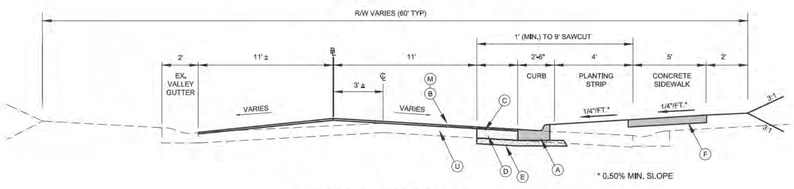
DWIGHTWARE BLVD L-1: STA. 13+04 - STA. 15+00 LT/14+65 RT



TYPICAL SECTION #3

NOT TO SCALE

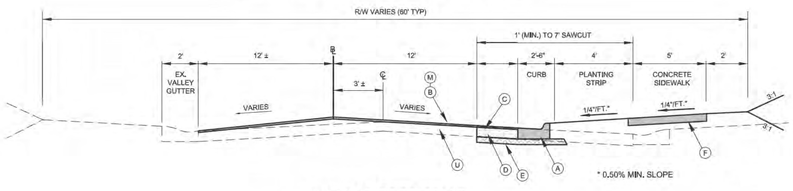
DWIGHTWARE BLVD L-1: STA. 14+65 RT - STA. 16+00



TYPICAL SECTION #4

NOT TO SCALE

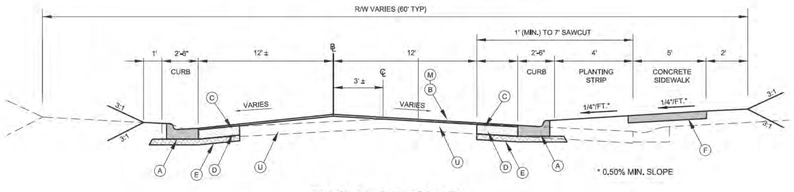
DWIGHTWARE BLVD L-1: STA. 16+00 - STA. 48+75



TYPICAL SECTION #5

NOT TO SCALE

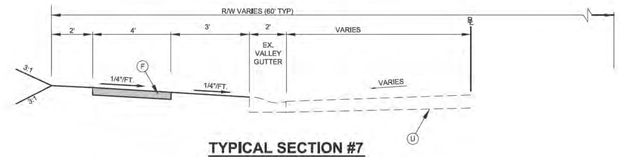
SHACKLEFORD TERRACE Y-1: STA. 10+13 - STA. 13+75



TYPICAL SECTION #6

NOT TO SCALE

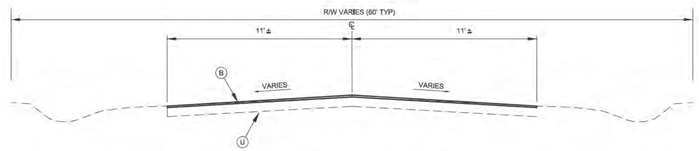
SHACKLEFORD TERRACE Y-1: STA. 13+75 - STA. 21+39



TYPICAL SECTION #7

NOT TO SCALE

OLD MEADOW ROAD - Y-2



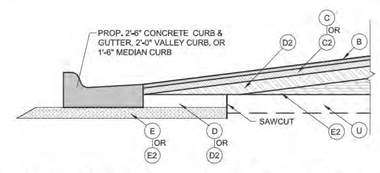
TYPICAL SECTION #8

NOT TO SCALE

MANCHESTER LANE - L-3

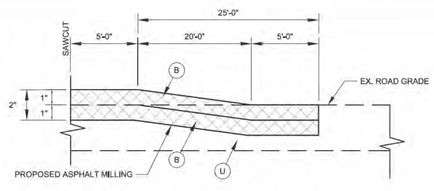
PAVEMENT SCHEDULE

A	PROP. 2'-0' VALLEY GUTTER OR 2'-6" CURB AND GUTTER
B	PROP. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER INCH IN ONE LIFT.
C	PROP. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER INCH IN ONE LIFT.
C2	PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER INCH. TOTAL DEPTH NOT TO EXCEED 3.0" TO BE PLACED IN SINGLE LIFTS OF 1.5" MINIMUM.
D	PROP. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER INCH IN ONE LIFT.
D2	PROP. VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER INCH. TOTAL DEPTH NOT TO EXCEED 4.5" TO BE PLACED IN 2.5" MINIMUM LIFTS AND 4.5" MAXIMUM LIFTS.
E	PROP. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER INCH IN ONE LIFT.
E2	PROP. VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER INCH TO BE PLACED IN 3" MINIMUM LIFTS AND 5.5" MAXIMUM LIFTS.
F	PROP. CONCRETE SIDEWALK
M	PROP. 1" MIN. ASPHALT MILLING (2" MIN. AT TIE-IN LOCATIONS)
U	EXISTING PAVEMENT



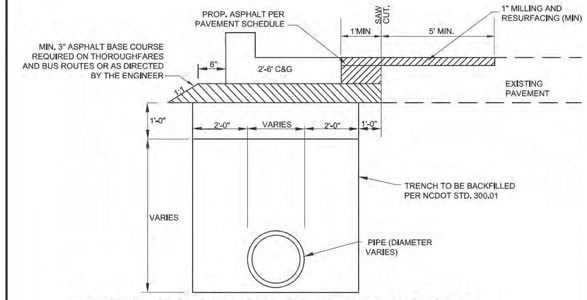
PAVEMENT WIDENING, OVERLAY, AND WEDGING DETAIL

NOT TO SCALE



PAVEMENT TIE-IN DETAIL

THIS DETAIL TO BE USED WHERE THE PROP. ROADWAY TIES TO EX. ROADWAY

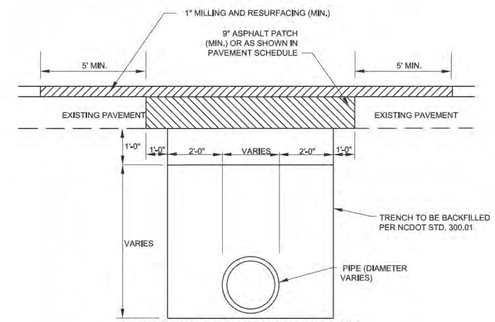


PAVEMENT REPAIR WITH MILLING AT CURB AND GUTTER WITH STORM DRAINAGE

Not to scale

DETAIL 3

No Degradation Fee

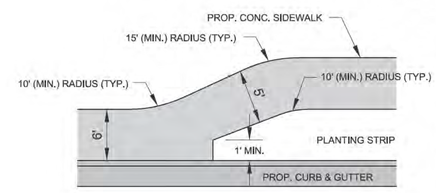


PAVEMENT REPAIR WITH MILLING

Not to scale

DETAIL 2

No Degradation Fee



SIDEWALK TRANSITION DETAIL

NOT TO SCALE

CHARLOTTE.

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
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NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

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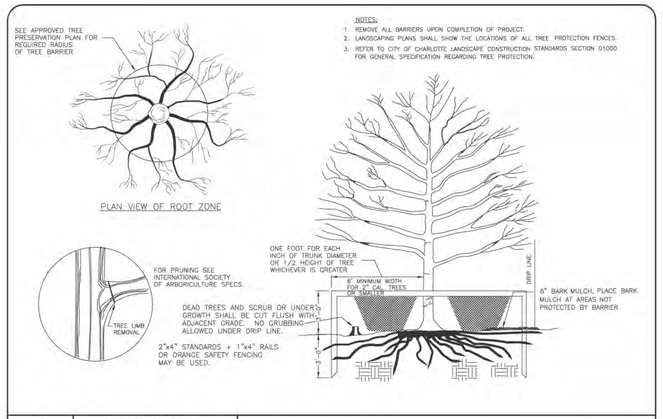
EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

TYPICAL SECTIONS & PAVEMENT SCHEDULE

SHEET 2C OF 2D

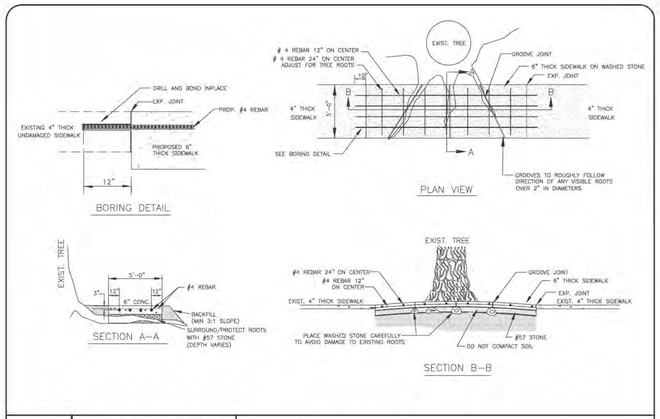
LANDSCAPE DETAILS



CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS
INCLUDES CHARLOTTE ETJ

TREE PROTECTION DETAIL

STD. NO. 40.02 REV.



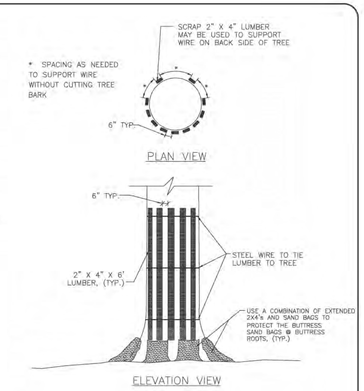
CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS
INCLUDES CHARLOTTE ETJ

BRIDGING TREE ROOTS (MODIFIED)

STD. NO. 40.11 REV.

NOTES:

1. THIS TREE BUMPER DETAIL SHALL BE USED WHEN WORKING WITHIN 10' OF AN EXISTING TREE TO BE PROTECTED.
2. ALL TREES SHALL BE SAVED UNLESS NOTED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. LUMBER, WIRE, AND SANDBAGS MAY BE REUSED AT OTHER TREES.
4. THE INTENT OF THIS DETAIL IS TO PROTECT EXISTING TREES FROM DAMAGE DURING CONSTRUCTION ESPECIALLY FROM BACKHOE ARM SWING. AN ALTERNATE APPROACH MAY BE USED IF APPROVED IN WRITING BY THE ENGINEER AFTER CONSULTATION WITH THE CITY ARBORIST OR HIS DULY AUTHORIZED REPRESENTATIVE.



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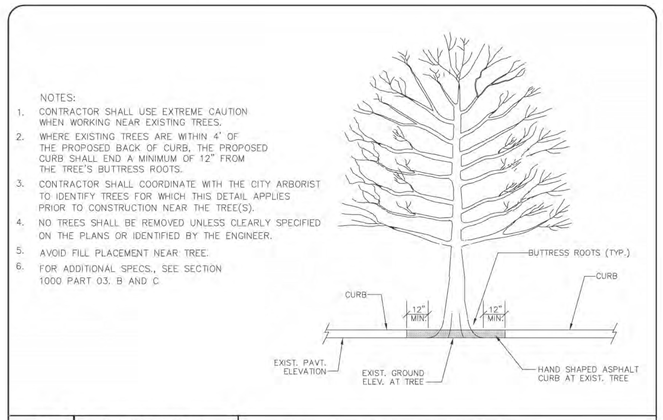
TEMPORARY TREE PROTECTION DETAIL

STD. NO. 40.12 REV.



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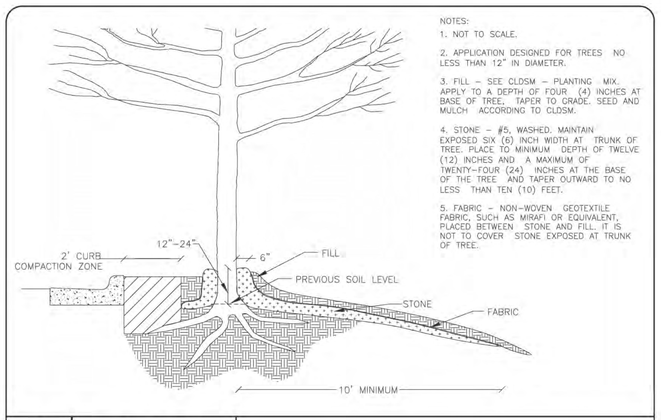
ASPHALT CURB PLACEMENT AT EXISTING TREES

STD. NO. 40.13 REV.



CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS
INCLUDES CHARLOTTE ETJ

ROCK CHIMNEY

STD. NO. 40.14 REV.

PROJECT NOTES:

1. THE DETAILS ON THIS SHEET ARE FOR WORKING NEAR EXISTING TREES.
2. THE TREE PROTECTION DETAIL, CLD STD. 40.02, SHALL BE USED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. THE BRIDGING TREE ROOTS DETAIL, CLD STD. 40.11, SHALL BE USED WHERE INDICATED ON THE PLANS. ADDITIONAL LOCATIONS MAY BE IDENTIFIED BY THE ENGINEER AFTER CONSULTATION WITH THE CITY ARBORIST OR HIS DULY AUTHORIZED REPRESENTATIVE.
4. THE TEMPORARY TREE PROTECTION DETAIL, CLD STD. 40.12, SHALL BE USED WHEN WORKING WITHIN 10' OF AN EXISTING TREE TO BE PROTECTED AS DIRECTED BY THE ENGINEER.
5. ASPHALT CURB PLACEMENT AT EXISTING TREES, CLD STD. 40.13, IS NOT ANTICIPATED TO BE USED FOR THIS PROJECT.
6. THE ROCK CHIMNEY DETAIL, CLD STD. 40.14, HAS NOT BEEN IDENTIFIED FOR USE AT SPECIFIC LOCATIONS IN THE PLANS FOR THIS PROJECT. HOWEVER, THE ENGINEER MAY DIRECT THE INSTALLATION OF THE ROCK CHIMNEY AT SPECIFIC LOCATIONS AFTER CONSULTATION WITH THE CITY ARBORIST OR HIS DULY AUTHORIZED REPRESENTATIVE.

CHARLOTTE

Plans Prepared By:
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 21110 ENGINEER

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EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

LANDSCAPE DETAILS

SHEET 2D OF 2D

CHARLOTTE

Plans Prepared By:

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CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

512-08-053	1"=20' H, 1"=4' V
JOB NO.	SCALE
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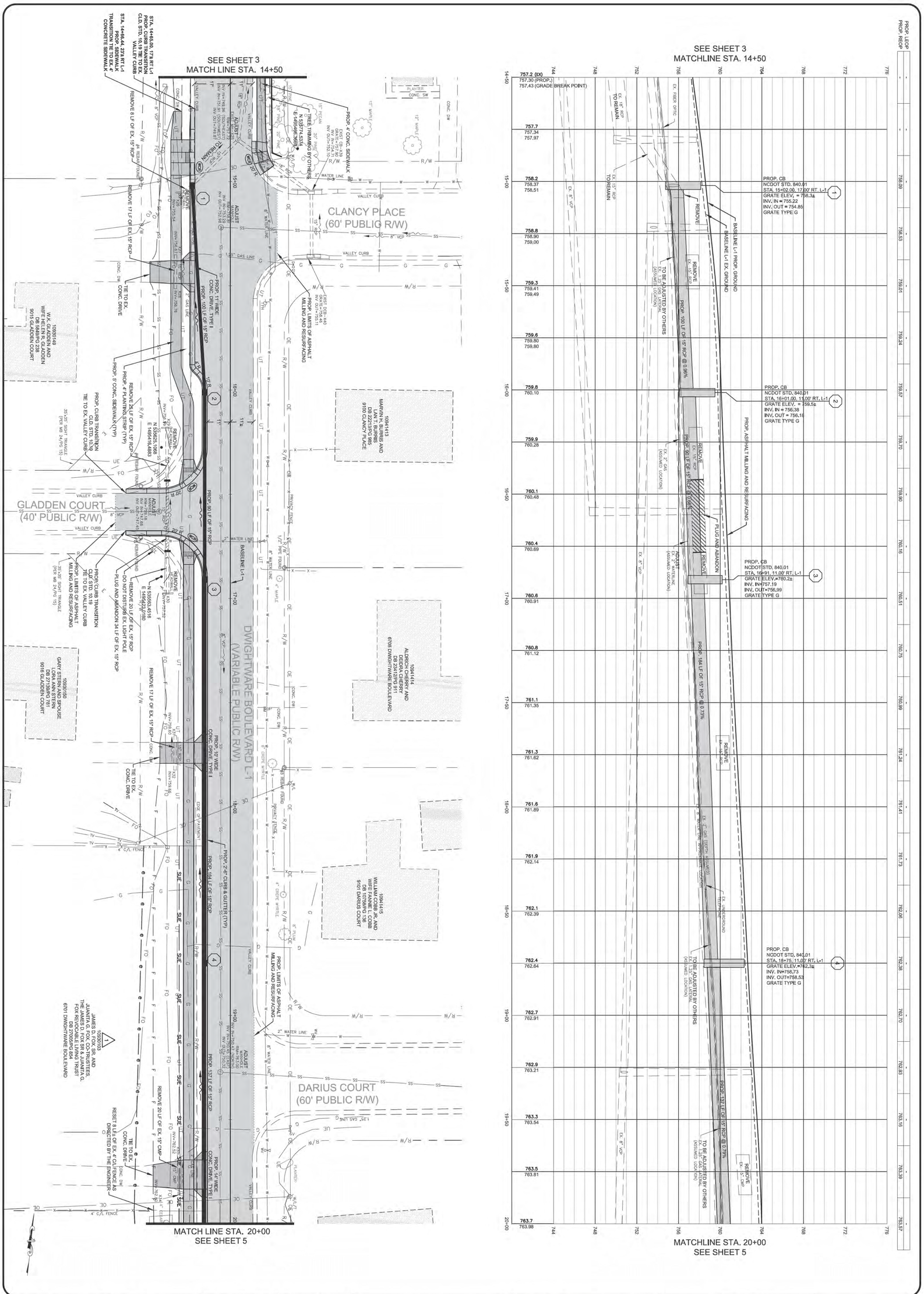
CAD FILE PATH	
BS, MB, CM	BS, MB, CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

DWIGHTWARE BLVD L-1
STA. 10+00 TO STA. 14+50

SHEET 3 OF 15



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' H, 1"=4' V SCALE
4		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
OF	DWIGHTWARE BLVD L-1	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
15	STA. 14+50 TO STA. 20+00	SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
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CHARLOTTE

CHARLOTTE

Plans Prepared By:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

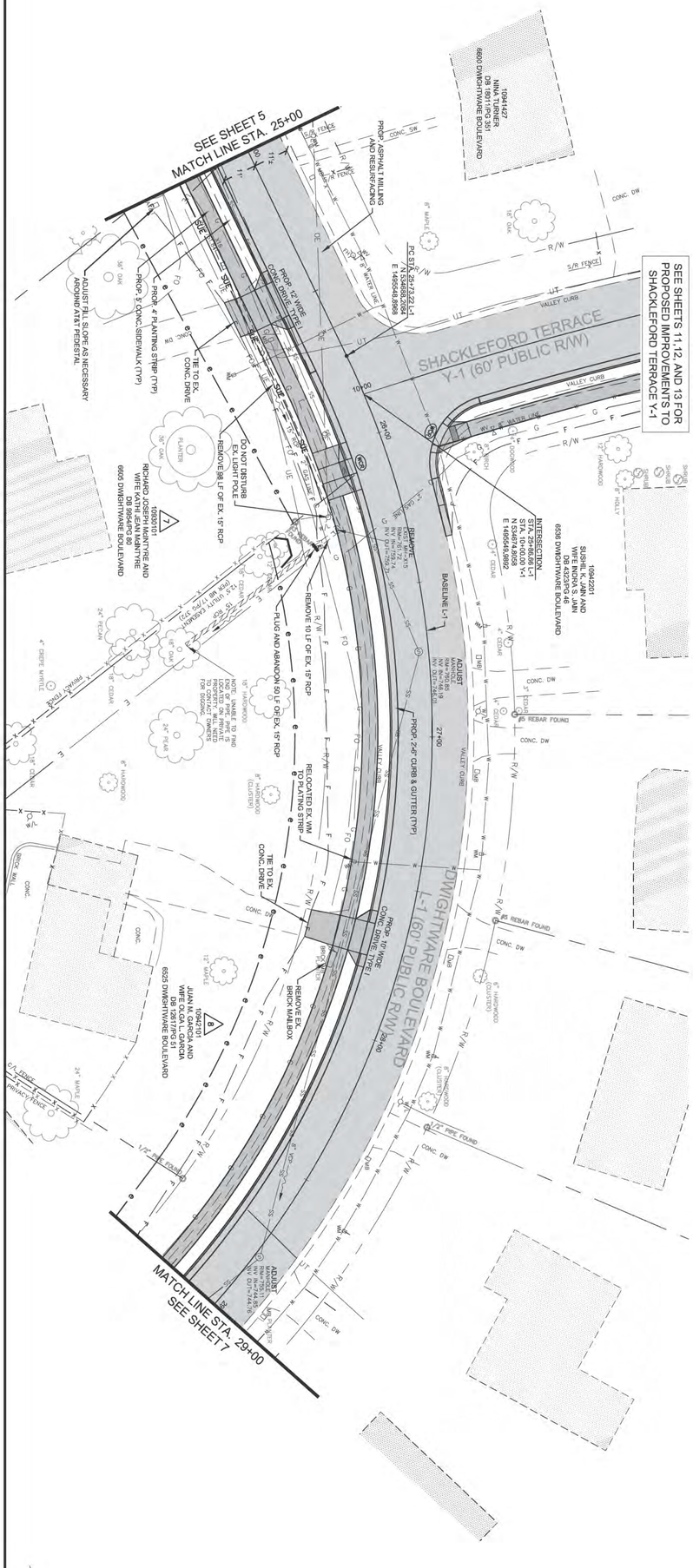
NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

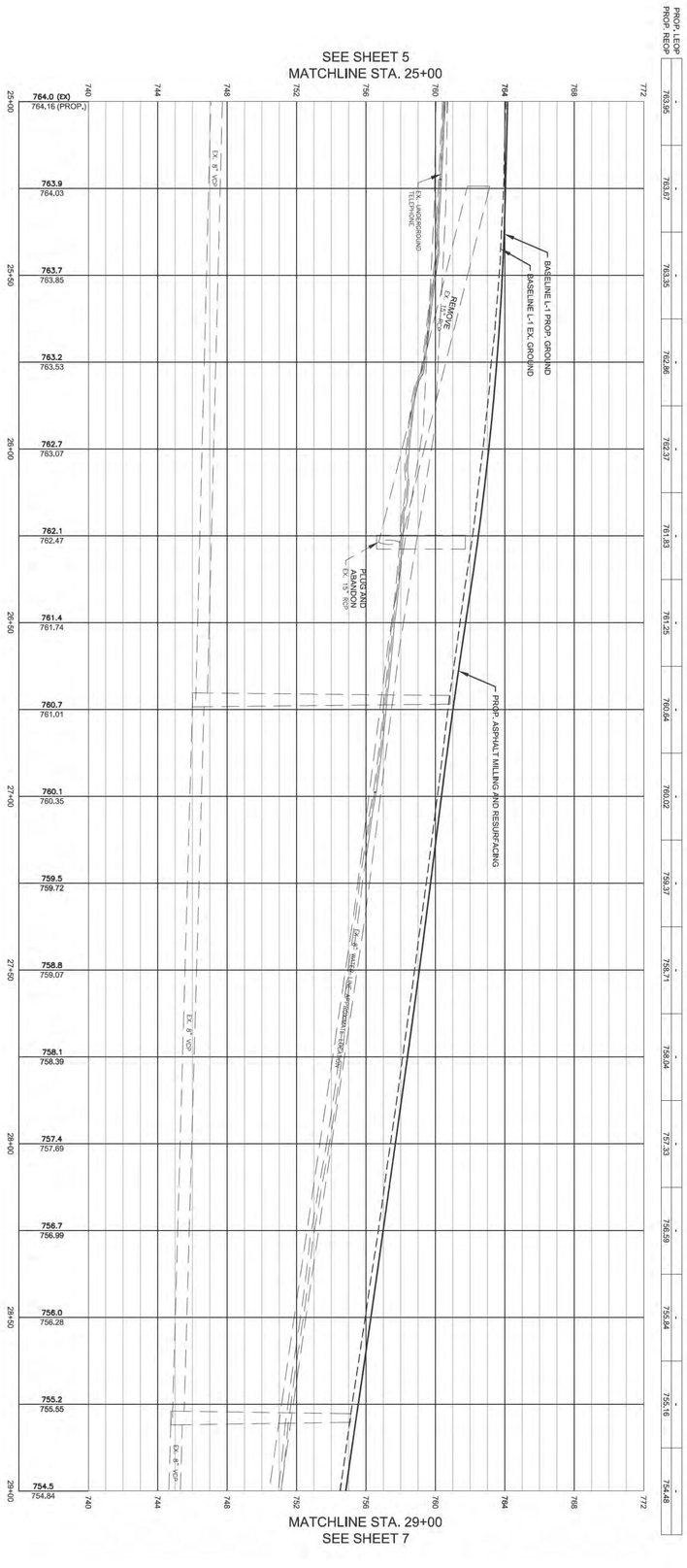
512-08-053	1"=20' H, 1"=4' V
JOB NO.	SCALE
H:\UrcdProjects\U80214_DI_Eastwoods\plotsheets	
CAD FILE PATH	
BS,WB,CM	BS,WB,CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

DWIGHTWARE BLVD L-1
STA. 20+00 TO STA. 25+00

SHEET 5 OF 15





SHEET 6	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' H, 1"=4' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
OF 15	DWIGHTWARE BLVD L-1 STA. 25+00 TO STA. 29+00	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

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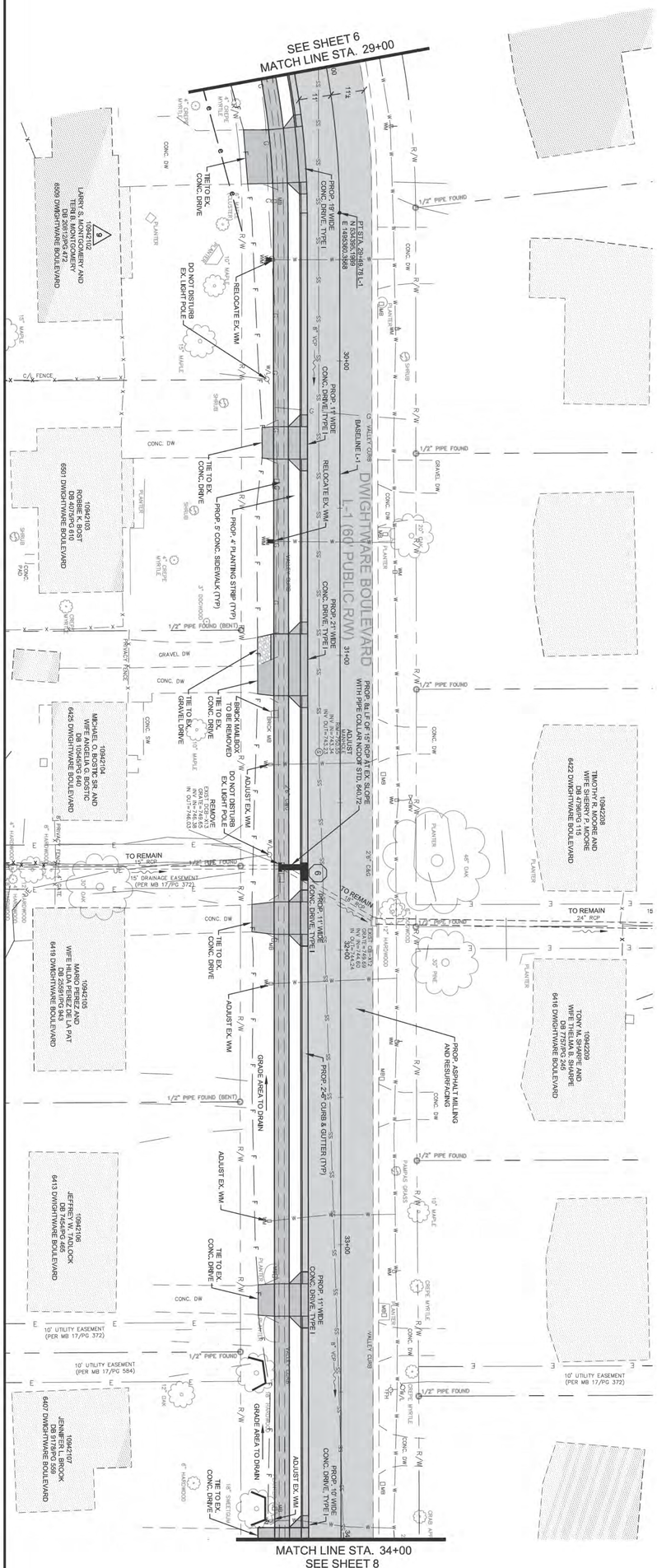
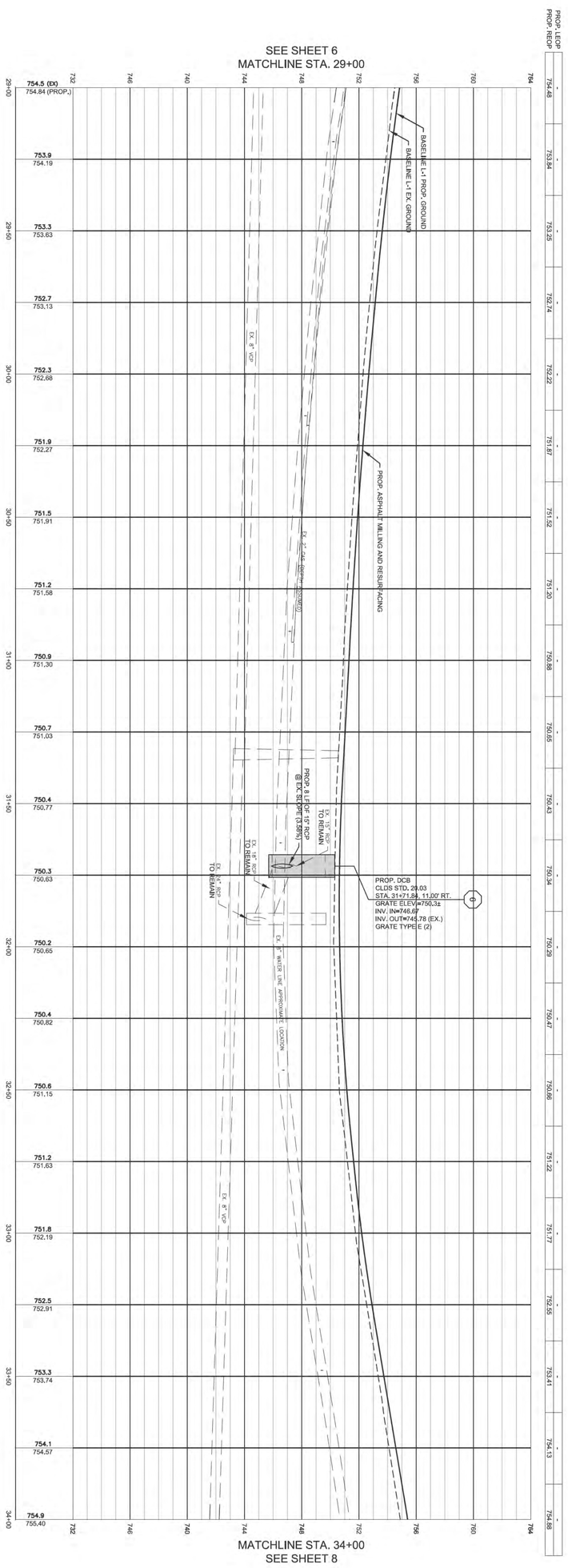
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.





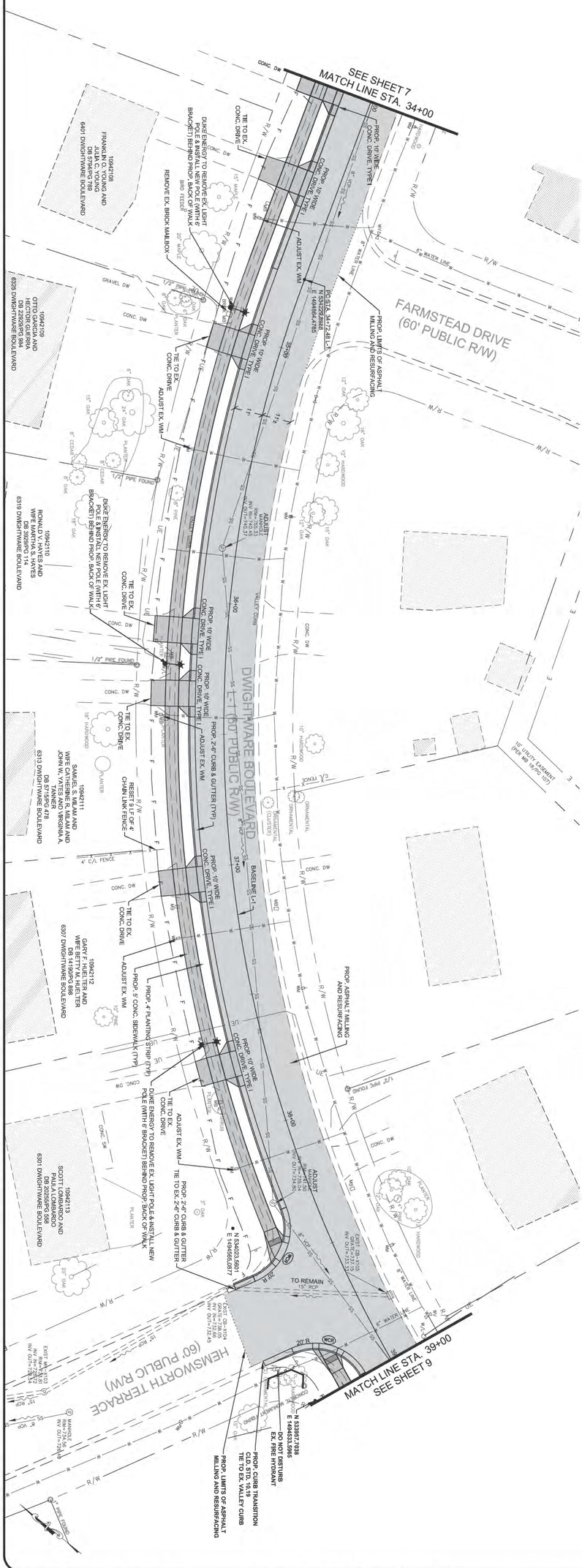
SHEET 7	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' H, 1"=4' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
OF 15	DWIGHTWARE BLVD L-1 STA. 29+00 TO STA. 34+00	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

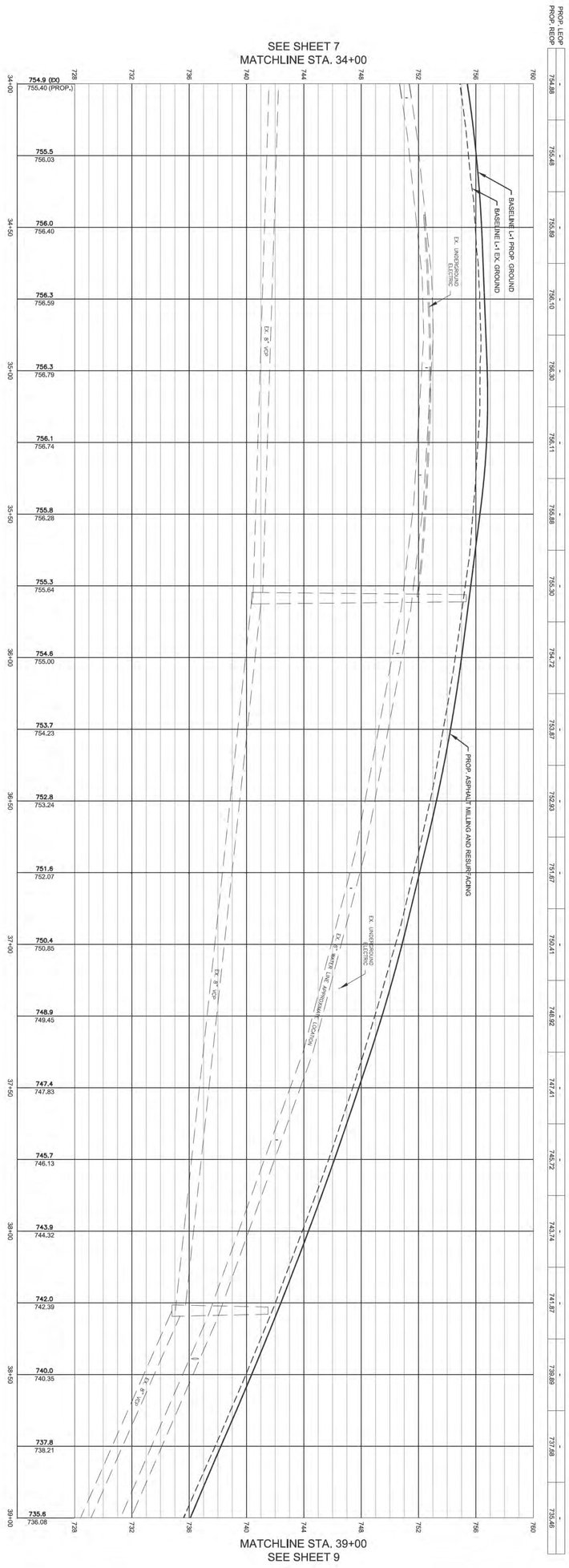
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.





SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' H, 1"=4' V SCALE
8		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
OF	DWIGHTWARE BLVD L-1	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
15	STA. 34+00 TO STA. 39+00	SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

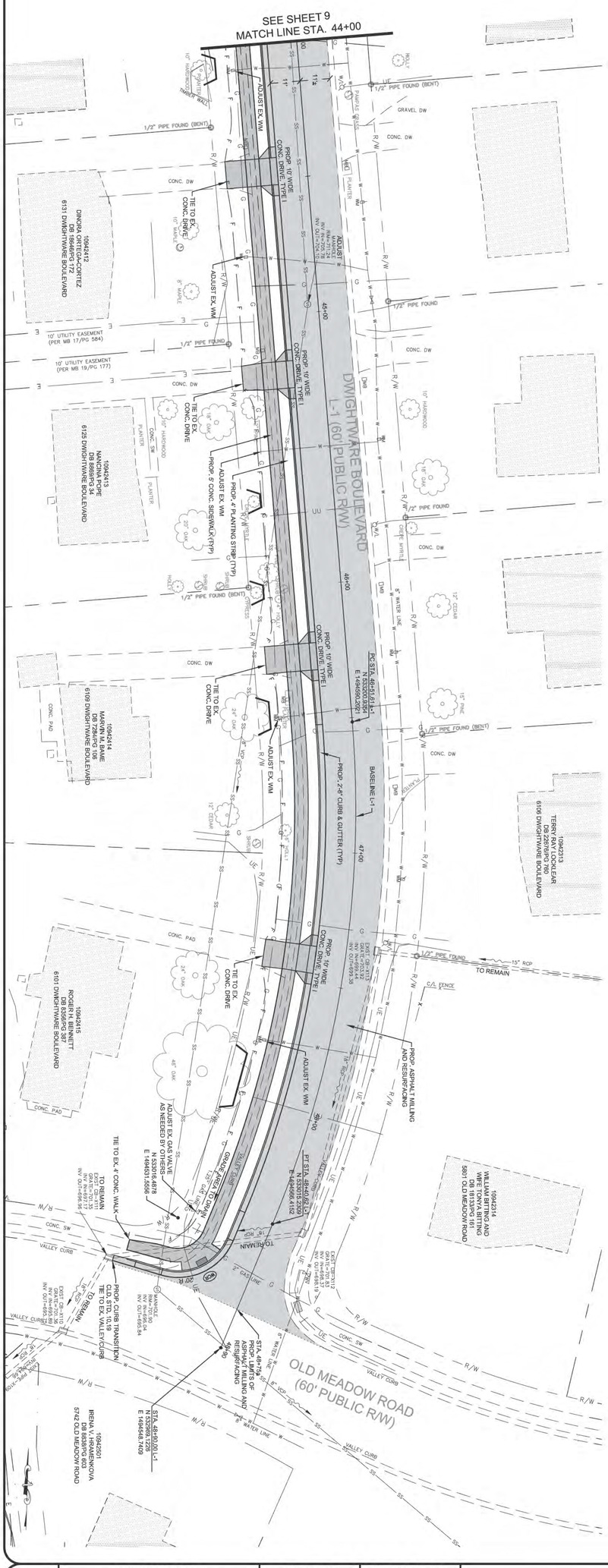
NORTH CAROLINA PROFESSIONAL SEAL 22110 ENGINEER

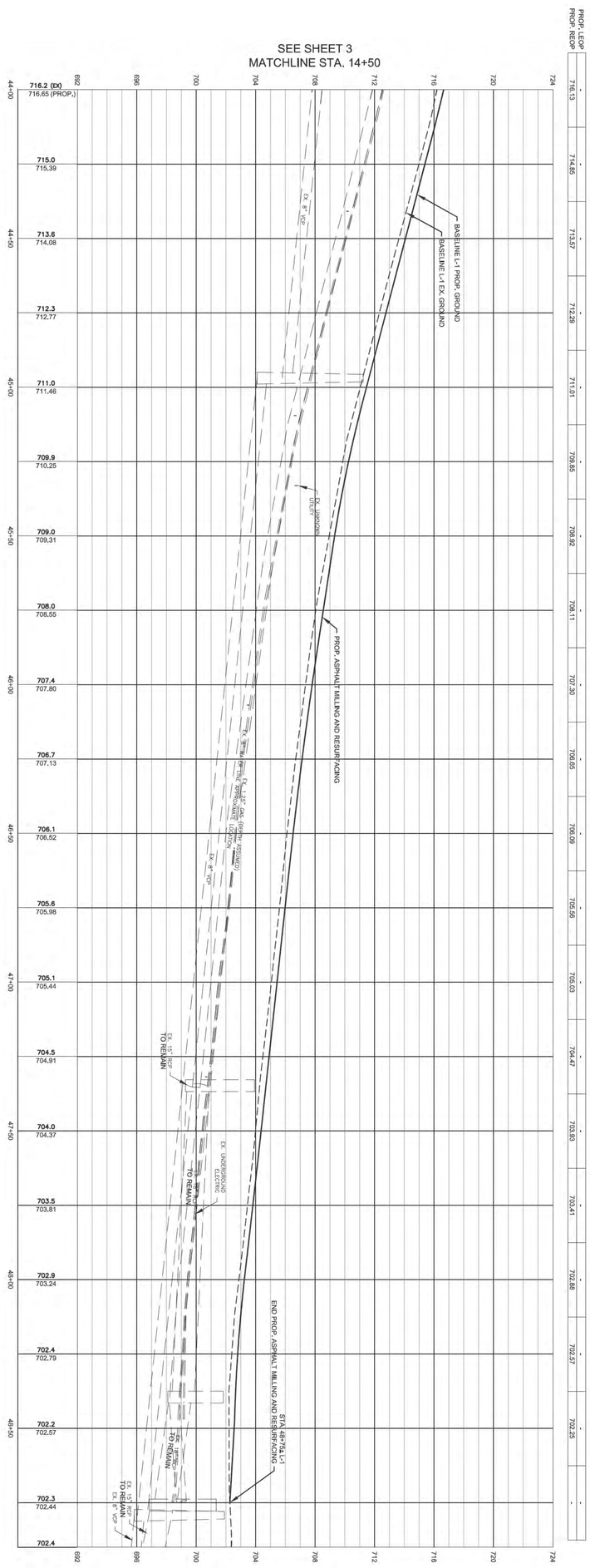
512-08-053	1"=20' H, 1"=4' V
JOB NO.	SCALE
H:\UrbanProjects\U80214_01_Eastwoods\plotsheets	
CAD FILE PATH	
BS, WB, CM	BS, WB, CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

DWIGHTWARE BLVD L-1
STA. 39+00 TO STA. 44+00

SHEET 9 OF 15





SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' H, 1"=4' V SCALE
10		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
OF	DWIGHTWARE BLVD L-1	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
15	STA. 44+00 TO STA. 48+90	SH APPROVED BY	9-30-13 DATE

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE

SEE SHEET 6 FOR PROPOSED IMPROVEMENTS TO DWIGHTWARE BOULEVARD L-1

CHARLOTTE

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CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

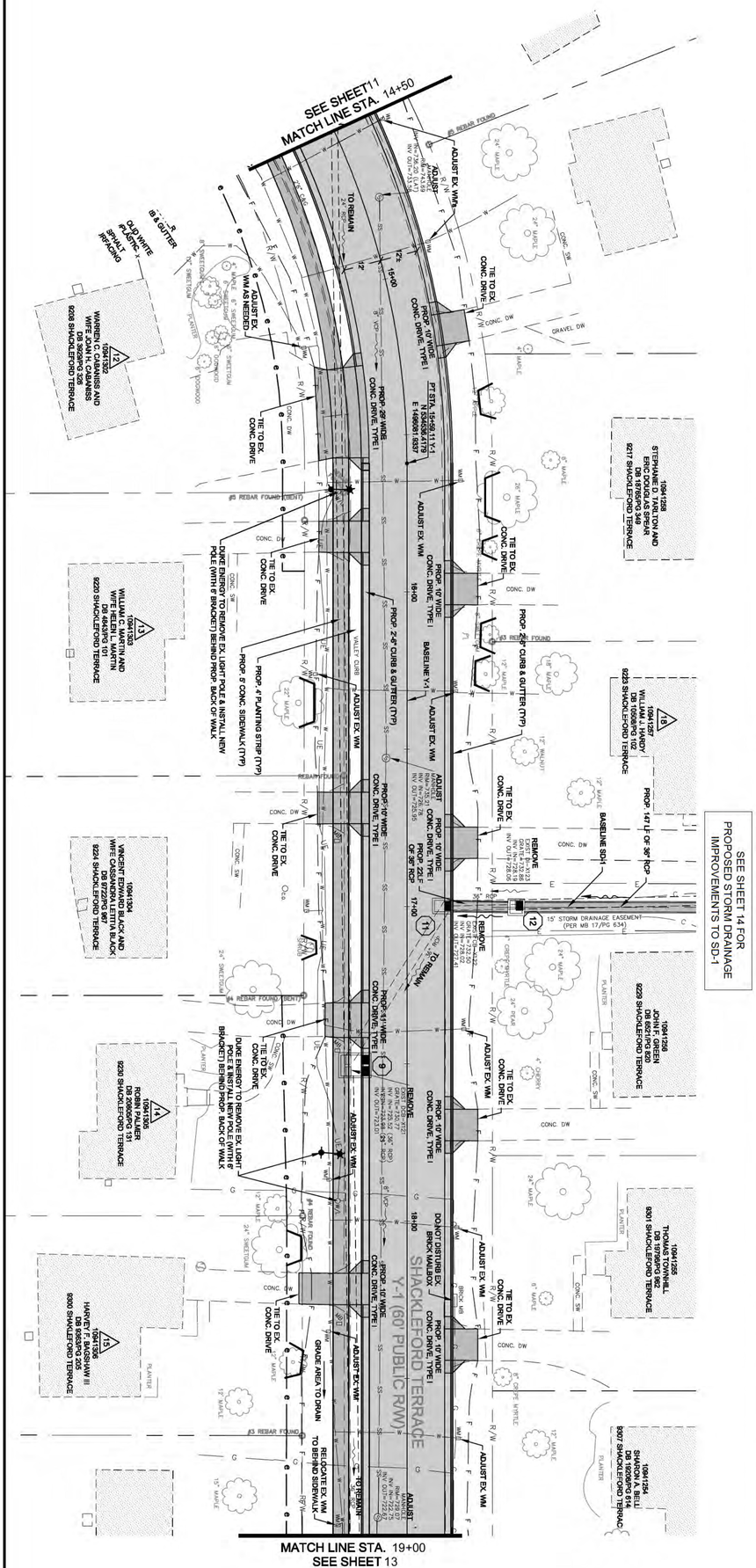
NORTH CAROLINA PROFESSIONAL SEAL 12110 ENGINEER

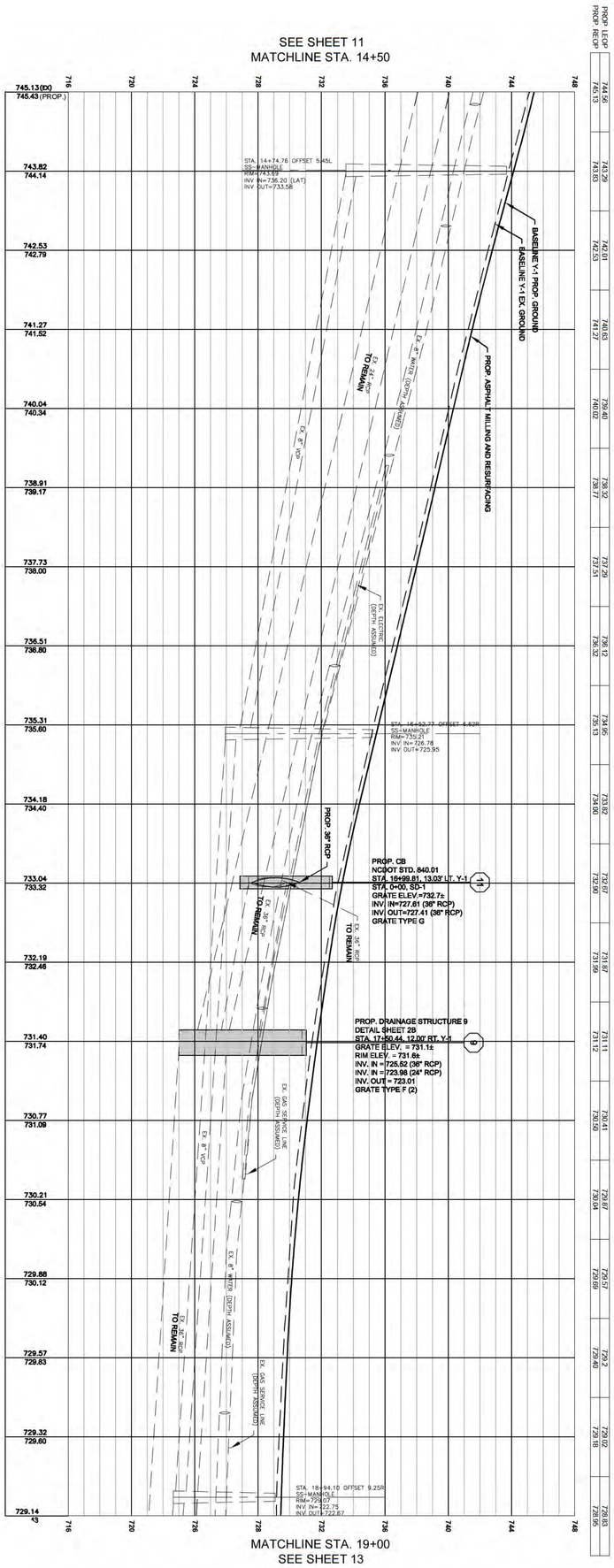
512-08-053	1"=20' H, 1"=4' V
JOB NO.	SCALE
H:\UrcaProjects\U80214_JI_Eastwoods\plotsheets	
CAD FILE PATH	
BS,WB,CM	BS,WB,CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

SHACKLEFORD TERRACE Y-1
STA. 10+00 TO STA. 14+50

SHEET 11 OF 15





SHEET 12	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' H, 1"=4' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
OF 15	SHACKLEFORD TERRACE Y-1 STA. 14+50 TO STA. 19+00	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	11-27-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE

PROP. LEOP	728.73	728.60	728.42	728.29	728.10	727.91	727.68	727.44	-	-
PROP. REOP	728.95	728.79	728.66	728.48	728.30	728.12	727.98	727.92	728.18	-

CHARLOTTE.

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CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER BRIAN S. CAMPBELL

512-08-053	1"=20' H, 1"=4' V
JOB NO.	SCALE
H:\LandProjects\080214_01_Eastwoods\plotsheets	
CAD FILE PATH	
BS, MB, CM	BS, MB, CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

SHACKLEFORD TERRACE Y-1
STA. 19+00 TO STA. 21+45

SHEET 13 OF 15

SD-1

SD-2

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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

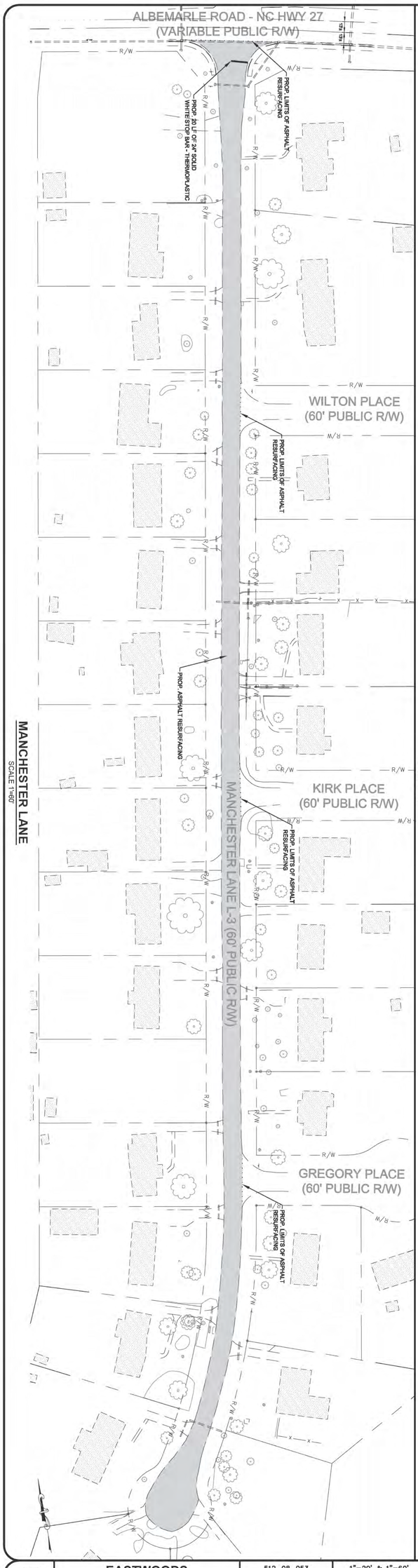
NORTH CAROLINA PROFESSIONAL SEAL 52110 ENGINEER SANDRA P. HAYES
11/27/13

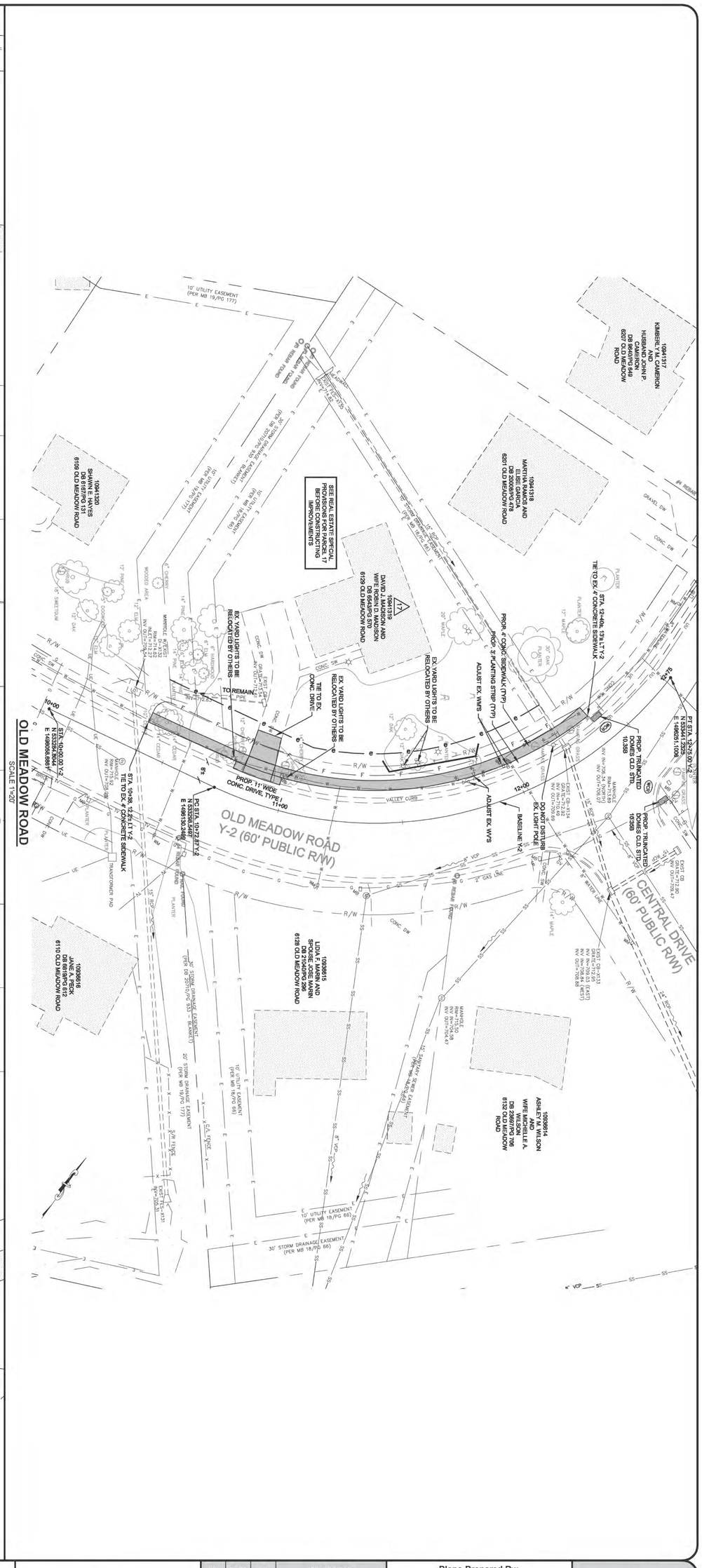
512-08-053	1"=20' H, 1"=4' V
JOB NO.	SCALE
H:\LandProjects\U80214_DI_Eastwoods\plotsheets	
CAD FILE PATH	
BS,MB,CM	BS,MB,CM
PREPARED BY	CHECKED BY
SH	11-27-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

STORM DRAINAGE SD-1 & SD-2
STA. 0+00 TO STA. 3+77.43

SHEET 14 OF 15





SHEET 15	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=20' & 1"=60' SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH	
OF 15	OLD MEADOW ROAD Y-2 & MANCHESTER LANE L-3	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NORTH CAROLINA PROFESSIONAL SEAL 32110 SHAWN P. HAYES

NO.	DATE	BY	DESCRIPTION

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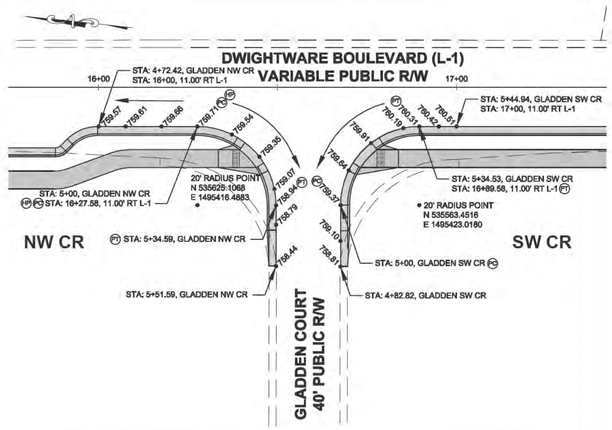
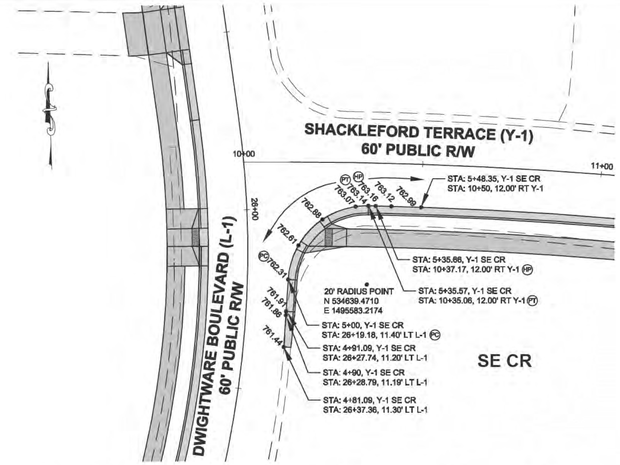
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

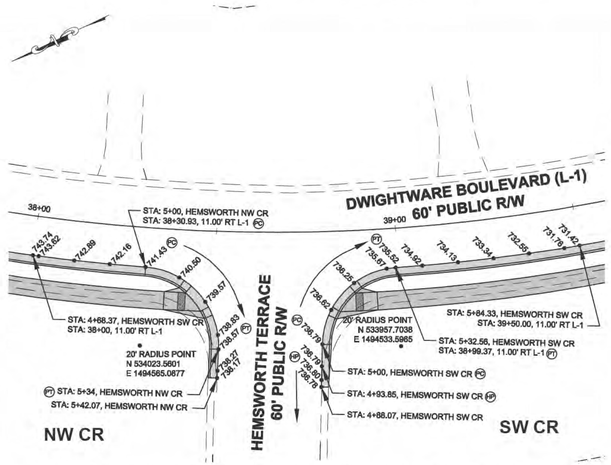
CHARLOTTE



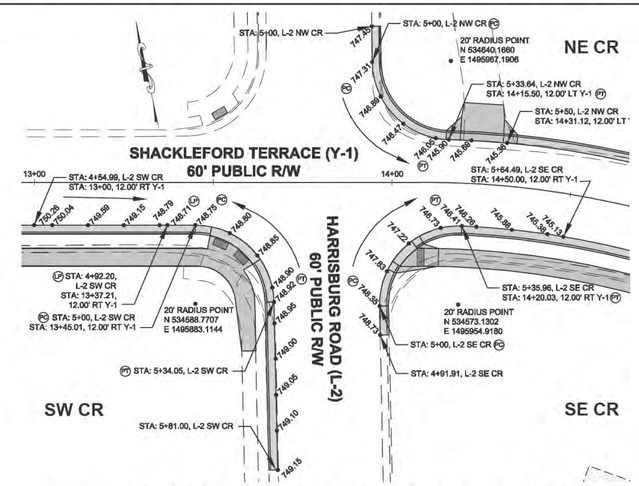
DWIGHTWARE BLVD AND GLADDEN COURT



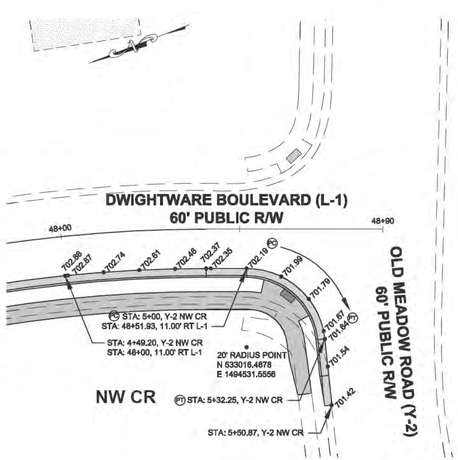
SHACKLEFORD TERRACE AND DWIGHTWARE BLVD



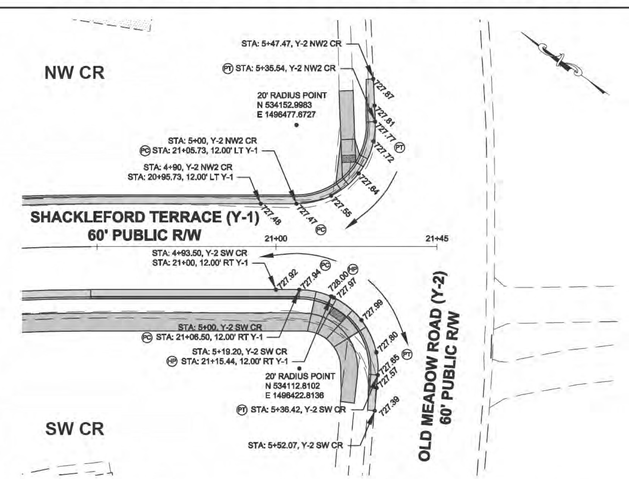
DWIGHTWARE BLVD AND HEMSWORTH TERRACE



SHACKLEFORD TERRACE AND HARRISBURG ROAD



DWIGHTWARE BLVD AND OLD MEADOW ROAD



SHACKLEFORD TERRACE AND OLD MEADOW ROAD

LEGEND

CR	CURB RETURN	R	RADIUS
NW	NORTHWEST	NE	NORTHEAST
SW	SOUTHWEST	SE	SOUTHEAST
HP	HIGH POINT	LP	LOW POINT
PC	POINT OF CURVATURE	PT	POINT OF TANGENCY
	FLOW ARROW		

PROPOSED EDGE OF PAVEMENT ELEVATIONS ARE PROVIDED IN 10' INCREMENTS (MAXIMUM) AROUND CURB RETURNS.

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NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

512-08-053	1"=20'
JOB NO.	SCALE
H:\LoreProjects\080214_01_Eastwoods\plotsheets\WM2012plots	
CAD FILE PATH	
BS, WB, CM	BS, WB, CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

CURB RETURN PLAN

SHEET CR1 OF CR1

GENERAL NOTES

A) ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITIONS OF THE CHARLOTTE DEPT. OF TRANSPORTATION(CDOT) WORK AREA TRAFFIC CONTROL HANDBOOK(W.A.T.C.H.), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(M.U.T.C.D.), THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION(NCDOT) SUPPLEMENT TO THE M.U.T.C.D., THE NCDOT ROADWAY STANDARD DRAWINGS AND THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

B) THE CONTRACTOR IS TO NOTIFY CDOT IN WRITING 10 WORKING DAYS IN ADVANCE OF ANY ROAD CLOSURE OR 5 WORKING DAYS PRIOR TO CLOSING ONE OR MORE TRAVEL LANES IN ACCORDANCE WITH SECTION 3 OF THE W.A.T.C.H. HANDBOOK.

C) ALL SIGNAL REVISIONS OR SHIFTS OF SIGNAL HEADS WILL BE THE RESPONSIBILITY OF CDOT; PRIOR TO REVISING TRAFFIC LANES WHICH REQUIRE SIGNAL REVISIONS, THE CONTRACTOR SHALL NOTIFY THE CDOT IMPLEMENTATION SECTION MANAGER (GUS JORDI / 336-7086) A MINIMUM OF 30 CALENDAR DAYS IN ADVANCE. TRAFFIC LANES SHALL NOT BE SHIFTED UNTIL THE REQUIRED SIGNAL REVISION / SHIFT IS COMPLETE AND READY FOR ACTIVATION. FOR NOTICES RELATED TO SIGNAL WORK REQUIRING NEW UTILITIES, REFER TO PROJECT NOTES.

D) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH, INSTALL, RELOCATE, AND MAINTAIN ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES FOR WORK SITES AND DETOUR ROUTES AS SHOWN IN TRAFFIC CONTROL PLANS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

E) CONSTRUCTION PHASING MAY DICTATE THAT TWO OR MORE TYPICAL W.A.T.C.H. DIAGRAMS OR STANDARDS BE USED IN ONE AREA OF CONSTRUCTION. CHANNELIZING DEVICES ASSOCIATED WITH THESE TYPICALS SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED AS NECESSARY TO COMPLY WITH THE CONSTRUCTION PHASING OF THE PLANS. THE LOCATION AND POSITIONING OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER TO ENSURE THAT THE MOTORIST DOES NOT RECEIVE FALSE INFORMATION WHEN TWO OR MORE TYPICALS AND/OR ROADWAY STANDARD DRAWINGS OVERLAP.

F) CONTRACTOR SHOULD BE AWARE THAT WHEN THE CONSTRUCTION AREA IS IN OR NEAR A VERTICAL CREST OR HORIZONTAL CURVE, THE WORK AREA SHALL BE EXTENDED SO THAT LANE CLOSURE BEGINS IN ADVANCE OF THE CURVE AND MINIMUM STOPPING SIGHT DISTANCE IS MET.

~~G) OFF-DUTY POLICE OFFICERS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER TO BE PRESENT FOR CONTROLLING TRAFFIC DURING CONSTRUCTION HOURS.~~

H) THE CONTRACTOR SHALL MARK ALL HAZARDS WITHIN THE LIMITS OF THE PROJECT WITH WELL-MAINTAINED SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES. ON CONNECTING ROADS, ALL BARRICADES, SIGNS, WARNING, AND/OR CHANNELIZING DEVICES SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED AS REQUIRED DURING THE PROGRESS OF CONSTRUCTION AS APPROVED BY THE ENGINEER.

I) WORK ON THE PROJECT OR ANY SEPARATE ACTIVITY THEREIN SHALL NOT START UNTIL ALL OF THE REQUIRED SIGNS, BARRICADES, WARNING, AND/OR CHANNELIZING DEVICES ARE INSTALLED AND APPROVED BY THE ENGINEER.

J) THE CONTRACTOR SHALL CONTACT GUS JORDI, IMPLEMENTATION SECTION MANAGER (704-336-7086) WITH THE CITY OF CHARLOTTE DEPARTMENT OF TRANSPORTATION (CDOT) TWO WEEKS PRIOR TO BEGINNING ANY WORK THAT WILL REQUIRE THE RELOCATION OR PLACEMENT OF SIGNS OR OTHER TRAFFIC CONTROL DEVICES BY THE CITY.

K) THE CONTRACTOR MUST MAINTAIN TWO WAY TRAFFIC DURING ALL PERIODS OF CONSTRUCTION ACTIVITY UNLESS OTHERWISE SPECIFIED HEREIN. THE CONTRACTOR SHALL HAVE THE ABILITY TO FLAG TRAFFIC USING QUALIFIED FLAGGERS WHEN NECESSARY OR REQUIRED

L) THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS AND ADDRESS CONFLICTING PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 17 OF THE W.A.T.C.H. HANDBOOK OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ANY EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

M) THE CONTRACTOR SHALL MAINTAIN TWO WAY TRAFFIC ON ALL PORTIONS OF THIS PROJECT UNLESS OTHERWISE SPECIFIED IN THE PLANS, PROJECT NOTES, OR BY THE ENGINEER.

N) CONTRACTOR WILL BE REQUIRED TO PROVIDE PROPERTY OWNERS AND TENANTS ACCESS TO THEIR PROPERTY THROUGHOUT THE PROJECT LIMITS, INCLUDING REASONABLE INGRESS AND EGRESS FOR BUSINESSES. SPECIAL ATTENTION SHALL BE PAID TO FIRE HYDRANTS.

O) THE CONTRACTOR IS TO NOTIFY (BY MAIL) ALL PROPERTY OWNERS AND OCCUPANTS WHO HAVE DIRECT ACCESS TO THE ROADWAY WITHIN THE PROJECT LIMITS A MINIMUM OF 5 AND A MAXIMUM OF 10 WORKING DAYS PRIOR TO INSTALLING TRAFFIC CONTROL DEVICES IN FRONT OF THOSE PROPERTIES. NOTIFICATIONS SHOULD INCLUDE CONTACT PERSONS NAME, TELEPHONE NUMBER, EMAIL ADDRESS, AND MAILING ADDRESS.

P) THE CONTRACTOR SHALL PATROL THE WORK SITE AT THE BEGINNING AND END OF EACH WORK DAY (AT A MINIMUM) TO ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND FUNCTIONING PROPERLY. CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND FUNCTIONING AT ALL TIMES DURING PERIODS OF CONSTRUCTION INACTIVITY.

Q) DURING PERIODS OF INACTIVITY OR AT NIGHT, EQUIPMENT SHALL NOT BE PARKED IN SUCH A MANNER AS TO BLOCK SIDEWALKS, TRAFFIC CONTROL DEVICES, OR THE MOTORISTS' VIEW OF TRAFFIC. EQUIPMENT SHALL BE AT LEAST 10 FEET AWAY FROM THE TRAVEL LANE.

R) WHENEVER TRAFFIC MUST BE ROUTED ACROSS THE CENTERLINE DURING CONSTRUCTION ACTIVITY, THE TWO OPPOSING DIRECTIONS MUST BE PHYSICALLY SEPARATED. TRAFFIC CONES CAN BE USED FOR THIS PURPOSE DURING DAYLIGHT HOURS; REFLECTORIZED CONES OR DRUMS MUST BE USED AT NIGHT. TRAFFIC SHALL NOT BE ROUTED ACROSS THE CENTERLINE DURING CONSTRUCTION INACTIVITY UNLESS PAVEMENT MARKING CONFLICTS ARE APPROPRIATELY ADDRESSED AND AGREEMENT ON REMOVAL OR NOT IS WORKED OUT WITH THE ENGINEER IN ACCORDANCE WITH SECTION 16 OF THE W.A.T.C.H. HANDBOOK. IF THE ENGINEER APPROVES TRAFFIC TO CROSS THE CENTER LINE DURING CONSTRUCTION INACTIVITY, ONLY REFLECTORIZED DRUMS MUST BE USED.

S) THE CITY ENGINEER OR DIRECTOR OF THE CHARLOTTE DEPARTMENT OF TRANSPORTATION OR THEIR APPOINTED REPRESENTATIVES ARE AUTHORIZED TO STOP ANY WORK WITHIN PUBLIC RIGHT OF WAY THAT DOES NOT FOLLOW THIS TRAFFIC CONTROL PLAN OR REQUIREMENTS OF THE W.A.T.C.H. AND THE M.U.T.C.D. UNTIL SUCH REQUIREMENTS ARE MET.

T) ADJACENT LANES TO CONSTRUCTION ZONES MAY REMAIN OPEN IF LATERAL CLEARANCE BETWEEN EDGE OF TRAVEL LANE AND EQUIPMENT IS EQUAL TO OR GREATER THAN 2 FEET (INCLUDING WIDTH OF DRUM). IF A DROPOFF EXISTS WITHIN THE WORK ZONE, CONTRACTOR SHOULD FOLLOW SECTION 10 OF THE W.A.T.C.H. HANDBOOK PERTAINING TO ADJACENT LANE CLOSURES DUE TO DROPOFFS.

U) THE CONTRACTOR SHALL FOLLOW THE PHASING AS DESCRIBED HEREIN. THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH CONSTRUCTION PHASE IN SEQUENCE. WHEN A CONSTRUCTION PHASE IS DIVIDED INTO STEPS, THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH STEP IN SEQUENCE. (EXAMPLE: THE REQUIREMENTS OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO PHASE II; THE REQUIREMENTS OF STEP 1 OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO STEP 2 OF PHASE I). ALL WORK DESCRIBED IN THE PROJECT PHASING SHALL BE PERFORMED BY THE CONTRACTOR, EXCEPT WHERE IT IS SPECIFIED FOR CERTAIN WORK TO BE PERFORMED BY OTHERS.

V) THE CONTRACTOR SHALL NOT BE ALLOWED TO STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME IN ANY ONE DIRECTION.

W) CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON BOTH SIDES OF THE ROAD SIMULTANEOUSLY WITHIN THE SAME AREA EXCEPT WHERE THE ROADWAY IS DIVIDED BY A RAISED MEDIAN. IT WILL BE ACCEPTABLE TO CONSTRUCT BORE PITS ON EACH SIDE OF A ROADWAY FOR BORING UTILITIES UNDER THE ROADWAY UNLESS SUPERSEDED BY ENGINEER TO COMPLY WITH PEDESTRIAN REQUIREMENTS OR LATERAL CLEARANCE FROM TRAVEL LANES.

X) THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO SECTION VII (PEDESTRIAN CONSIDERATIONS) OF THE W.A.T.C.H.

PROJECT NOTES

1) CONTRACTOR SHALL PROVIDE AND INSTALL ALL FINAL PAVEMENT MARKINGS. CDOT SHALL PROVIDE AND INSTALL ALL FINAL SIGNAGE. (E&PM PM VERIFY WITH CDOT PM ON EVERY PROJECT)

2) CONTRACTOR SHALL ONLY WORK ON ONE CORNER OF AN INTERSECTION AT A TIME.

3) DURING THE HOURS OF 7:00 AM-9:00 AM AND 4:30 PM-6:30 PM MONDAY THRU FRIDAY CONSTRUCTION OR MAINTENANCE WORK WHICH INVOLVES CLOSURE OF A TRAVEL LANE WILL NOT BE ALLOWED ON THOROUGHFARE STREETS EXCEPT FOR EMERGENCY SITUATIONS OR WITH APPROVAL FROM CDOT.

4) THE CONTRACTOR SHALL LIMIT CONSTRUCTION TO ONE STREET AT A TIME, UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONTRACTOR SHALL LIMIT CONSTRUCTION TO ONE BLOCK EACH DAY IN ORDER TO DECREASE THE AMOUNT OF BACKFILL.

CONSTRUCTION PHASING

THE CONTRACTOR SHALL FOLLOW THE PHASING AS DESCRIBED HEREIN. THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH CONSTRUCTION PHASE IN SEQUENCE. WHEN A CONSTRUCTION PHASE IS DIVIDED INTO STEPS, THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH STEP IN SEQUENCE. (EXAMPLE: THE REQUIREMENTS OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO PHASE II. THE REQUIREMENTS OF STEP 1 OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO STEP 2 OF PHASE I.) ALL WORK DESCRIBED IN THE PROJECT PHASING SHALL BE PERFORMED BY THE CONTRACTOR, EXCEPT WHERE IT IS SPECIFIED FOR CERTAIN WORK TO BE PERFORMED BY OTHERS.

THE FOLLOWING PHASING REFERS TO SPECIFIC TRAFFIC CONTROL DRAWINGS SHOWN OR DIAGRAMS FROM THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) PUBLISHED BY CDOT AND SHOWN ON SHEETS TC1 AND TC2. THE CONTRACTOR SHALL FOLLOW THESE PROCEDURES AND DIAGRAMS. IF THESE PROCEDURES AND/OR DIAGRAMS ARE NOT TYPICAL FOR THE FIELD CONDITIONS, THE DIAGRAMS MAY BE COMBINED OR ALTERED UPON APPROVAL OF THE ENGINEER. THE STANDARDS, PROCEDURES AND DIAGRAMS SHOWN IN THE TRAFFIC CONTROL PLANS OR IN THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) ARE THE MINIMUM REQUIRED. ADDITIONAL SIGNS, CONES, BARRICADES, AND WARNING DEVICES MAY BE USED, BUT AT NO TIME WILL LESS THAN WHAT IS SPECIFIED IN THE STANDARDS, PROCEDURES AND DIAGRAMS BE ACCEPTABLE.

AT THE END OF EACH PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA BY TEMPORARILY SEEDING AND MULCHING THE DISTURBED LIMITS.

INGRESS AND EGRESS MUST BE MAINTAINED TO INDIVIDUAL HOMES AND BUSINESSES DURING CONSTRUCTION.

THE PROJECT SHALL BE DIVIDED INTO THE FOLLOWING WORK AREAS FOR CONSTRUCTION OF CURB AND GUTTER, SIDEWALK, STORM DRAINAGE IMPROVEMENTS, MILLING, AND ASPHALT RESURFACING

WORK AREA 1: DWIGHTWARE BOULEVARD - L-1 - SHEETS 3, 4, 5, 6, 7, 8, 9, AND 10

WORK AREA 2: SHACKLEFORD TERRACE - Y-1: SHEETS 11, 12, AND 13

WORK AREA 3: STORM DRAIN IMPROVEMENTS - SD-1: SHEET 14

WORK AREA 3: OLD MEADOW ROAD - Y-2: SHEET 15

WORK AREA 4: MANCHESTER LANE - L-3 (RESURFACING ONLY): SHEET 15

CONSTRUCTION ACTIVITY SHALL BE LIMITED TO ONE (1) STREET AT A TIME PER WORK AREA. THE CONTRACTOR SHALL PROVIDE MINIMUM STABILIZATION AS DEFINED IN THE PROJECT SPECIAL PROVISIONS FOR THE CURRENT STREETS IN THE WORK AREA PRIOR TO PROCEEDING TO THE NEXT STREET IN THAT WORK AREA. THE CONTRACTOR MAY WORK CONCURRENTLY WITHIN ALL WORK AREAS.

ALL WORK SHALL COMPLY WITH THE CITY OF CHARLOTTE NOISE ORDINANCE.

ALL WORK SHALL FOLLOW THE TRAFFIC CONTROL PHASING BELOW FOR EACH WORK AREA:

PHASE I: CONSTRUCTION SIGNAGE AND ADVANCE WARNING

1. THE CONTRACTOR SHALL PLACE ALL CONSTRUCTION WARNING SIGNS ONE WEEK PRIOR TO THE BEGINNING OF WORK IN ACCORDANCE WITH THE WATCH HANDBOOK. THE APPROACH WARNING SIGNS AND "END OF CONSTRUCTION" SIGNS (G20-2) SHALL BE PLACED ON DWIGHTWARE BOULEVARD, SHACKLEFORD TERRACE, OLD MEADOW ROAD, HARRISBURG ROAD, CENTRAL AVENUE, AND MANCHESTER LANE AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

PHASE II: TEMPORARY TRAVEL LANES

1. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL MEASURES THAT DEFINE TWO (2) 10' TRAVEL LANES. NO PARKING, STOPPING, DELIVERIES, OR STORAGE OF EQUIPMENT SHALL OCCUR IN ANY TRAVEL LANES. NO VEHICLES, EQUIPMENT, OR MATERIALS SHALL BE PLACED IN A TRAVEL LANE AT ANY TIME EXCEPT FOR THE DESIGNATED WORK AREA.

PHASE III: STORM DRAINAGE IMPROVEMENTS

1. THE CONTRACTOR SHALL CONSTRUCT, AS MUCH AS POSSIBLE, THE PROPOSED STORM DRAINAGE IMPROVEMENTS, UTILITY RELOCATIONS, AND RELATED WORK, ETC. USING DIAGRAMS 1, 2, 3, 4, 5, 6, 9, 10, AND 11 OF THE WATCH HANDBOOK.

- PROPOSED DRAINAGE STRUCTURES IN AREA 2 MUST BE CONSTRUCTED IN ORDER: STRUCTURE 10 BEFORE STRUCTURE 9.
- FULL CLOSURE OF SHACKLEFORD ROAD MAY BE CONSIDERED TO CONSTRUCT THE PROPOSED DRAINAGE STRUCTURES. THE CONTRACTOR SHALL INSTALL THE PROPOSED DRAINAGE STRUCTURES IN WORK AREA 2, USING DIAGRAM 26: DETOUR PLAN FOR CLOSED ROAD, AFTER APPROVAL IS OBTAINED FROM CDOT AND THE ENGINEER. IF A FULL ROAD CLOSURE IS CONDUCTED, PROPOSED DRAINAGE STRUCTURES 10 AND 9 CAN BE CONSTRUCTED AT THE SAME TIME.
- PROPOSED DRAINAGE STRUCTURES IN AREA 3 MUST BE CONSTRUCTED IN ORDER: STRUCTURE 11 BEFORE STRUCTURE 12, 12 BEFORE STRUCTURE 13, AND 13 BEFORE GRADE CONTROL STRUCTURES.
- THE CONTRACTOR MUST CONSTRUCT THE PROPOSED DRAINAGE SYSTEM WITH TEMPORARY TIE-IN POINTS (I.E. TEMPORARY PIPES) TO MAINTAIN EXISTING DRAINAGE PATTERNS UNTIL PLACEMENT OF PROPOSED CURB AND GUTTER IS COMPLETE.
- PROPOSED DRAINAGE STRUCTURES WITHIN EXISTING ROADWAY MUST BE BUILT AT EXISTING GRADE (TO BE ADJUSTED TO FINISHED GRADE ONCE CURB AND GUTTER IS COMPLETE) AND MUST USE DETAIL 1 AND DETAIL 2 (SHEET TC2) OR HS-20 LOADING GRADE STEEL PLATES MUST BE USED TO TEMPORARILY COVER STRUCTURES AT EXISTING GRADE.
- EXISTING DRAINAGE SYSTEMS WITH APPROPRIATE EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL THE PROPOSED STORM DRAINAGE CROSSINGS/SYSTEMS ARE COMPLETED.

PHASE IV: PROPOSED TYPICAL SECTION IMPROVEMENTS:

1. THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT AND CONSTRUCT, AS MUCH AS POSSIBLE, THE PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY IMPROVEMENTS, WHEELCHAIR RAMPS AND RELATED WORK, ETC. USING DIAGRAMS 1, 2, 3, 4, 5, 6, 9, 10, AND 11 OF THE WATCH HANDBOOK.
2. THE CONTRACTOR SHALL INSTALL ASPHALT (EXCEPT FOR THE TOP LAYER OF SURFACE COURSE).

CONSTRUCTION PHASING

PHASE V: FINAL ASPHALT SURFACE COURSE & PAVEMENT MARKINGS

1. THE CONTRACTOR SHALL MILL THE EXISTING ASPHALT PAVEMENT TO THE GRADES SHOWN ON THE PLANS (1" MIN) FOR ALL WORK AREAS.
2. THE CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY MANHOLES, VALVES, ETC. TO FINISHED GRADE ELEVATION.
3. CONTRACTOR SHALL MAKE ALL BASE PAVEMENT REPAIRS AS NEEDED AND AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL PLACE THE FINAL ASPHALT SURFACE LAYER FOR THE ENTIRE PROJECT AS DEFINED IN WORK AREAS DURING OFF-PEAK TRAFFIC PERIODS AND USING WATCH DIAGRAM 9 - TWO-WAY, ONE LANE TRAFFIC (FLAGGER CONTROL).
5. THE CONTRACTOR SHALL PLACE THE FINAL PAVEMENT MARKINGS (STOP BARS) FOR THE ENTIRE PROJECT AS DEFINED IN WORK AREAS DURING OFF-PEAK TRAFFIC PERIODS AND USING WATCH DIAGRAM 9 - TWO-WAY, ONE LANE TRAFFIC (FLAGGER CONTROL).

DIAGRAM 1
SIDEWALK CLOSURE

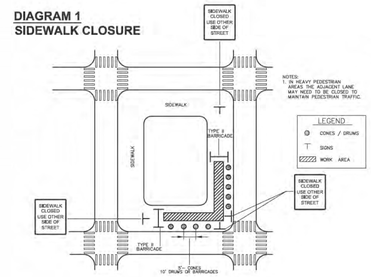


DIAGRAM 2
WORK AREA ON SHOULDER
(6' OR MORE FROM PAVEMENT)

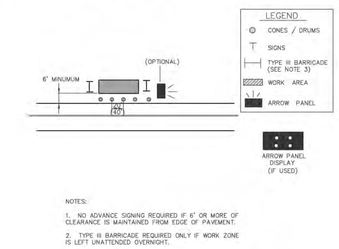
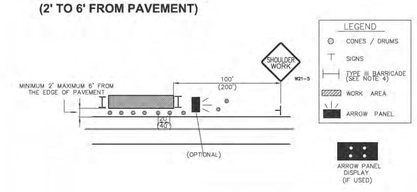
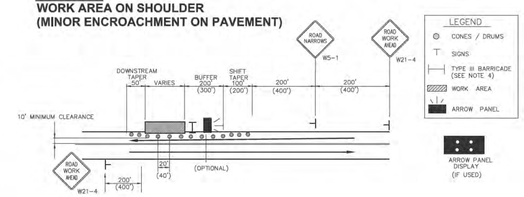


DIAGRAM 3
WORK AREA ON SHOULDER
(2' TO 6' FROM PAVEMENT)



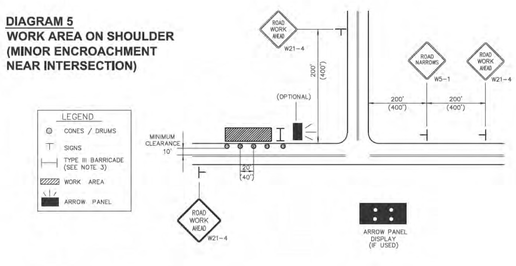
NOTES:
1. IF WORK AREA AND EQUIPMENT ARE CLOSER THAN 2' TO THE EDGE OF THE PAVEMENT, THEN USE OTHER APPLICABLE DIAGRAMS.
2. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
3. IF AN EXCAVATION IS TO BE MADE WITHIN 4' OF THE EDGE OF THE PAVEMENT THE LANE ADJACENT TO THE EXCAVATION SHOULD BE CLOSED USING OTHER APPLICABLE DIAGRAMS.
4. TYPE III BARRICADE REQUIRED ONLY IF WORK ZONE IS LEFT UNATTENDED OVERNIGHT.

DIAGRAM 4
WORK AREA ON SHOULDER
(MINOR ENCROACHMENT ON PAVEMENT)



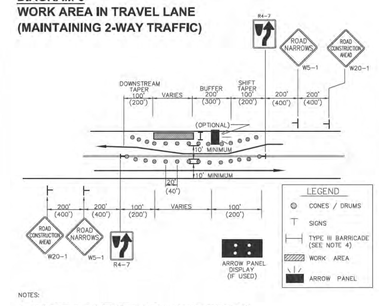
NOTES:
1. IF TRAFFIC ENCROACHES INTO OPPOSING LANES, ADDITIONAL TRAFFIC CONTROLS ARE REQUIRED (SEE DIAGRAM 6 OR DIAGRAM 9)
2. SPACING – 35 M.P.H. OR LESS – (SPACING) – ABOVE 35 M.P.H.
3. IF AN EXCAVATION IS TO BE MADE WITHIN 4' OF THE EDGE OF THE PAVEMENT, THE LANE ADJACENT TO THE EXCAVATION SHOULD BE CLOSED USING OTHER APPLICABLE DIAGRAM.
4. TYPE III BARRICADE REQUIRED ONLY IF WORK ZONE IS LEFT UNATTENDED OVERNIGHT.

DIAGRAM 5
WORK AREA ON SHOULDER
(MINOR ENCROACHMENT
NEAR INTERSECTION)



NOTES:
1. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
2. IF AN EXCAVATION IS TO BE MADE WITHIN 4' OF THE EDGE OF THE PAVEMENT THE LANE ADJACENT TO THE EXCAVATION SHOULD BE CLOSED USING OTHER APPLICABLE ILLUSTRATIONS.
3. TYPE III BARRICADE REQUIRED ONLY IF WORK ZONE IS LEFT UNATTENDED OVERNIGHT.

DIAGRAM 6
WORK AREA IN TRAVEL LANE
(MAINTAINING 2-WAY TRAFFIC)



NOTES:
1. IF CLOSURE IS LONG TERM (SEE W.A.T.C.H HANDBOOK SECTION XVI) CENTERLINE PAVEMENT MARKINGS SHALL BE REVISED TO MATCH TRAFFIC PATTERN. CENTERLINE DRUMS ARE NOT REQUIRED IF PAVEMENT MARKINGS ARE REVISED.
2. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
3. IF AN EXCAVATION IS TO BE MADE WITHIN 4' OF THE EDGE OF THE PAVEMENT, THE LANE ADJACENT TO THE EXCAVATION SHOULD BE CLOSED USING OTHER APPLICABLE ILLUSTRATIONS.
4. TYPE III BARRICADE REQUIRED ONLY IF WORK ZONE IS LEFT UNATTENDED OVERNIGHT.

CHARLOTTE

Plans Prepared By:
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 21110 ENGINEER

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BS,MB,CM	BS,MB,CM
PREPARED BY	CHECKED BY
SH	9-30-13
APPROVED BY	DATE

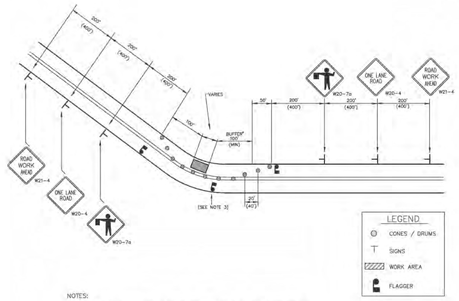
EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

TRAFFIC CONTROL NOTES AND DIAGRAMS

SHEET TC1 OF TC2

TRAFFIC CONTROL DIAGRAMS & DETAILS

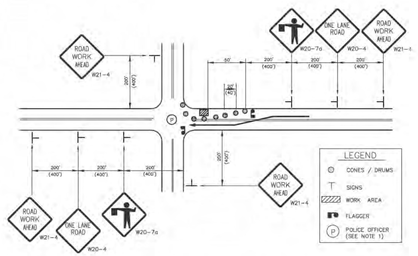
DIAGRAM 9
TWO-WAY, ONE LANE TRAFFIC (FLAGGER CONTROL)



NOTES:

1. BUFFER SHALL EXTEND BACK TO THE BEGINNING OF THE CURVE OR HILL TO PROVIDE ADEQUATE SIGHT DISTANCE FOR APPROACHING TRAFFIC.
2. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
3. ON LOW VOLUME, RESIDENTIAL STREETS WHERE THERE IS ADEQUATE VISIBILTY, A SINGLE FLAGGER POSITIONED AS SHOWN MAY BE ACCEPTABLE.
4. IF WORK ZONE IS WITHIN 50' OF AN INTERSECTION SEE M.A.T.C.H HANDBOOK FOR DIAGRAM 10 AND DIAGRAM 11.

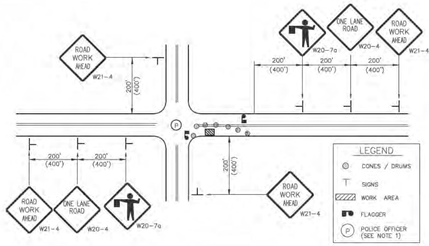
DIAGRAM 10
WORK AREA BEFORE AN INTERSECTION (FLAGGER CONTROL)



NOTES:

1. A UNIFORMED POLICE OFFICER IS REQUIRED TO DIRECT TRAFFIC AT SIGNALIZED INTERSECTIONS.
2. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
3. ADDITIONAL SIGNING, AND/OR TRAFFIC CONTROLS SUCH AS TURN PROHIBITIONS AND ADDITIONAL FLAGGERS MAY BE NECESSARY.

DIAGRAM 11
WORK AREA BEYOND AN INTERSECTION (FLAGGER CONTROL)



NOTES:

1. A UNIFORMED POLICE OFFICER IS REQUIRED TO DIRECT TRAFFIC AT SIGNALIZED INTERSECTIONS.
2. USE THIS APPLICATION WHEN WORK ZONE IS WITHIN 50' OF INTERSECTION
3. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
4. ADDITIONAL SIGNING, AND/OR TRAFFIC CONTROLS SUCH AS TURN PROHIBITIONS AND ADDITIONAL FLAGGERS MAY BE NECESSARY.

DIAGRAM 12
SIDEWALK CLOSURE ON ALBEMARLE ROAD FOR MILLING AND PAVING OPERATIONS

NOTES:
1. SIDEWALK CLOSED SIGN SHALL BE PLACED AT NEAREST SIGNALIZED INTERSECTION. PEDESTRIANS WILL CROSS ALBEMARLE ROAD AT THE CROSSWALK AT THE SIGNALIZED INTERSECTION TO THE SIDEWALK ON THE OPPOSITE SIDE OF THE STREET.
2. SIGNS TO BE INSTALLED ONE DAY PRIOR TO MILLING AND RESURFACING OPERATIONS.

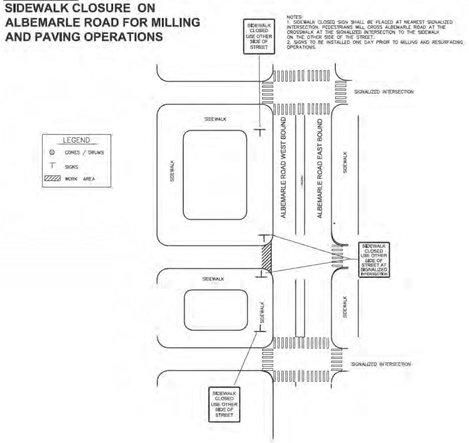
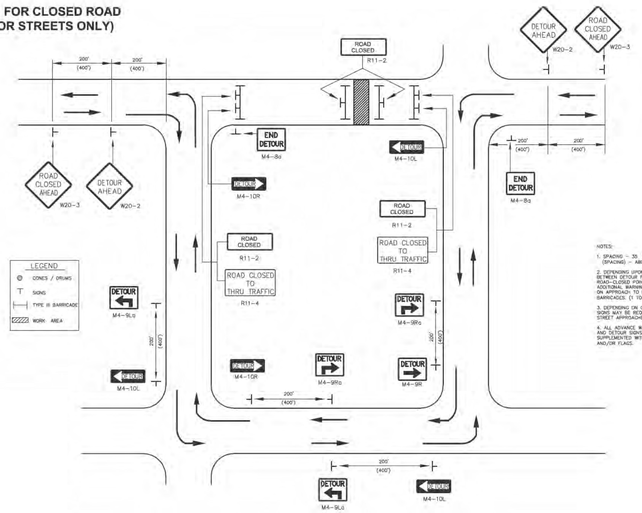


DIAGRAM 26
DETOUR PLAN FOR CLOSED ROAD (USE FOR MINOR STREETS ONLY)

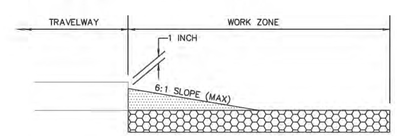


NOTES:

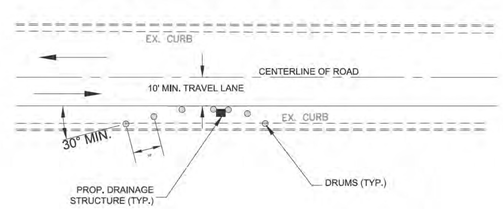
1. SPACING – 35 M.P.H. OR LESS (SPACING) – ABOVE 35 M.P.H.
2. DEPENDING UPON DISTANCE BETWEEN DETOUR POINT AND ROAD CLOSED TO THRU TRAFFIC ADDITIONAL WARNING IS REQUIRED ON APPROACH TO ROAD-CLOSED BARRICADES (1 TO 3 SIGNS).
3. DEPENDING ON CONDITIONS, SOME SIGNS MAY BE REQUIRED ON CROSS STREET APPROACHES.
4. ALL ADVANCE WARNING SIGNS AND DETOUR SIGNS MAYBE SUPPLEMENTED WITH FLASHERS AND/OR FLAGS.

DETAIL A
BACKFILL DETAIL

NOT TO SCALE



DETAIL B
DRAINAGE IN EXISTING ROADWAY DRUM DETAIL (TYP.) IN TANGENT SECTION



CHARLOTTE.

Plans Prepared By:
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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

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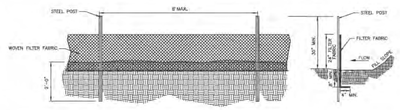
BS,MB,CM PREPARED BY	BS,MB,CM CHECKED BY
SH APPROVED BY	9-30-13 DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

TRAFFIC CONTROL DIAGRAMS & DETAILS

SHEET TC2 OF TC2

EROSION CONTROL NOTES AND DETAILS



GENERAL NOTES:

1. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
2. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
3. TURN SILT FENCE UP SLOPE AT ENDS.
4. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN ZONING IS ADJACENT TO 50FW BUFFERS, STREAMS OR WETLANDS (REFER TO 50FW BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
5. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
6. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
7. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

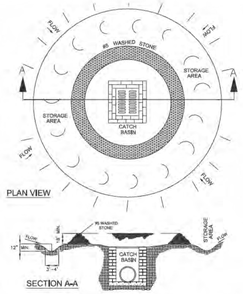
1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | TEMPORARY SILT FENCE | STD. NO. 30.06A | REV. 4

GENERAL NOTES:

1. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
2. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. THE STRUCTURE SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT AFTER EACH STORM EVENT AND REPAIRS MADE AS NECESSARY.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE BASIN HAS BEEN PROPERLY STABILIZED.
6. ON LARGER DRAINAGE AREAS RIP RAP MAY BE REQUIRED UNDER THE WASHED STONE.

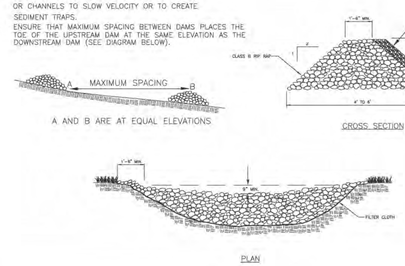


NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | STONE INLET PROTECTION | STD. NO. 30.08 | REV.

GENERAL NOTES:

1. RIPRAP SIZE TO BE DESIGNED BY ENGINEER.
2. CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
3. ENSURE THAT MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE DOWNSTREAM DAM (SEE DIAGRAM BELOW).

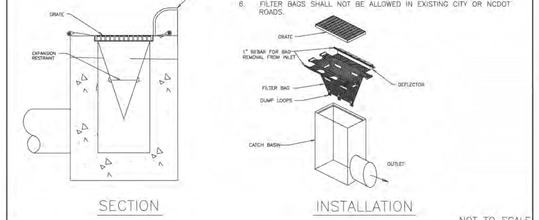


NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | TEMPORARY ROCK CHECK DAM | STD. NO. 30.10 | REV.

NOTES

1. INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
2. FILTER TYPES SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO INSTALLATION.
3. FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE ENGINEER.
4. FILTER BAGS SHALL BE REMOVED PRIOR TO STREET ACCEPTANCE.
5. FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
6. FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING CITY OR NCDOT ROADS.

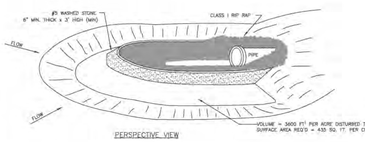


NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | CATCH BASIN INLET PROTECTION | STD. NO. 30.15 | REV.

DATA BLOCK

BASIN NO.	DRAINAGE AREA (ACRES)	DENUDED AREA (ACRES)	BASIN VOLUME REQUIRED (CUBIC FT.)	BASIN VOLUME PROVIDED (CUBIC FT.)	BASIN SURFACE AREA REQUIRED (SQ FT.)	BASIN SURFACE AREA PROVIDED (SQ FT.)	CLEANOUT DEPTH (FT.) $n/2$	n (FEET)



GENERAL NOTES:

1. GRAVEL AND RIP RAP FILTER BERM BASIN SHOULD BE USED TO PROTECT EXISTING PIPE INVERTS THAT DRAIN 3 ACRES OR LESS
2. DIMENSIONS SHOWN ARE THE MINIMUM ACCEPTED UNLESS OTHERWISE NOTED.
3. CLEANOUT PRIOR TO SEDIMENT REACHING HALF OF BERM HEIGHT.

NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | GRAVEL AND RIP RAP FILTER BERM BASIN | STD. NO. 30.12 | REV. 1

	GENTLE SLOPES	STEEP SLOPES
SEEDING MIXTURE	80 lbs/acre of tall fesue	100 lbs/acre tall fescue 30 lbs/acre Sericea lespedeza (unscarified after August 15) 10 lbs/acre Kobe lespedeza
SEEDING DATES	FALL: August 25 – October Late winter: February 15 – April 15 To extend spring seeding into June, add 15 lbs/acre hulled Bermudagrass Overseeding of Kobe lespedeza over fall-seeded tall fescue is very effective.	FALL: August 25 – October 15 Late winter: February 15 – April 15 To extend spring seeding into June, add 15 lbs/acre hulled Bermudagrass Overseeding of Kobe lespedeza over fall-seeded tall fescue is very effective.
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 4000 lbs/acre limestone and 1000 lbs/acre 10–10–10 fertilizer.	Apply lime and fertilizer per soil tests, or 4000 lbs/acre limestone and 1000 lbs/acre 10–10–10 fertilizer.

NOTE: SEE EROSION CONTROL NOTES.

NOTE 1
Ground Cover—Protective cover must be established on all disturbed areas within 21 calendar days after land disturbing activity is completed or has temporarily ceased.

NOTE 2
Graded slopes and fills—Protective cover must be established on all graded slopes and fills within 21 calendar days after a phase of grading is completed or has temporarily ceased.

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | SEEDING SCHEDULE | STD. NO. 30.17A

TEMPORARY SEEDING FOR WARM AND COOL SEASON

	EARLY SUMMER SEASON	STEEP SLOPES
SEEDING MIXTURE	40 lbs/acre of German millet 80 lbs/acre of tall fesue	120 lbs/acre Rye (grain) 80 lbs/acre tall fesue
SEEDING DATES	May 1 – August 15 Refertilize if growth is not fully adequate. Apply 4000 lbs/acre straw or equivalent hydroseeding.	October 25 – December 30 Between December 30 – February 15, add 50 lbs/acre of annual Kobe lespedeza Apply 4000 lbs/acre straw or equivalent hydroseeding.
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10–10–10 fertilizer.	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10–10–10 fertilizer.

NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ | SEEDING SCHEDULE (SEASONAL) | STD. NO. 30.17B

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

7-08

SPECIAL SEDIMENT CONTROL FENCE

ENGLISH STANDARD DRAWING FOR

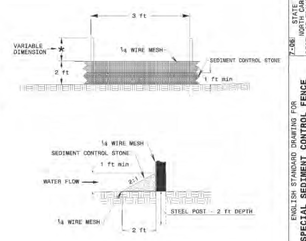
GENERAL NOTES:

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.

USE HARDWARE CLOTH 24 GAUGE WIRE MESH WITH ¼ INCH MESH OPENINGS.

INSTALL 5 FT. SELF FASTENER ANGLE STEEL POST 2 FT. DEEP MINIMUM.

SPACE POST A MAXIMUM OF 3 FT.



SHEET 1 OF 1
1606.01

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

7-08

ENGLISH STANDARD DRAWING FOR

SPECIAL SEDIMENT CONTROL FENCE

SHEET 1 OF 1
1606.01

EROSION CONTROL NOTES

1. DISTURBED AREA: 3.2 ACRES
2. SOIL TYPES: CECIL SANDY CLAY LOAM, ENON SANDY LOAM, HELENA SANDY LOAM, APPLING SANDY LOAM, MECKLENBURG - URBAN COMPLEX AND MONACAN SOILS
3. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WILL BE STABILIZED WITH THE APPROPRIATE TEMPORARY AND/OR PERMANENT VEGETATIVE EROSION CONTROL MEASURE(S) WITHIN 14 DAYS OF DISTURBANCE. PROVIDE GROUND COVER ON PERIMETER AREAS AND SLOPES GREATER THAN 3:1 WITHIN 7 CALENDAR DAYS OF FINAL GRADING.
4. ANY GRADING BEYOND THE CONSTRUCTION LIMITS SHOWN ON THE PLANS IS A VIOLATION OF THE NORTH CAROLINA EROSION CONTROL ORDINANCE, AND IS SUBJECT TO A FINE.
5. TEMPORARY SURFACE STABILIZATION MUST BE APPLIED TO DISTURBED AREAS. TEMPORARY VEGETATION SHOULD BE APPLIED TO CUT AND FILL SLOPES AFTER LAND CLEARING AND ROUGH GRADING HAS OCCURRED.
6. NO ON-SITE BURIAL OF VEGETATION OR CONSTRUCTION DEBRIS WILL BE PERMITTED.
7. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED IN THE FIELD BY THE CONSTRUCTION INSPECTOR.
8. ALL STOCKPILE AREAS DEEMED NECESSARY BY THE CONTRACTOR WILL BE REQUIRED TO HAVE EROSION CONTROL MEASURES SURROUNDING THE AREA IN ORDER TO TRAP EROSION AND SEDIMENT. THE STOCKPILE AREAS MAY ONLY BE LOCATED WITHIN THE CONSTRUCTION LIMITS AND BE APPROVED BY THE ENGINEER. APPROPRIATE EROSION CONTROL MEASURES CONSIST OF: TEMPORARY SILT FENCE, TEMPORARY ROCK CHECK DAMS, CATCH BASIN INLET PROTECTION, ETC. (APPLICABLE EROSION CONTROL MEASURES/STANDARDS AS DEFINED IN THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL).
9. ALL STOCKPILE AREAS LOCATED WITHIN EXISTING PAVEMENT LIMITS MUST BE APPROVED BY THE ENGINEER AND MUST HAVE A 4" MINIMUM STONE OR SAND BASE.
10. IN THE EVENT THE CONTRACTOR PROPOSES A STOCKPILE AREA OUTSIDE OF THE CONSTRUCTION LIMITS; A SKETCH PLAN SHOWING THE AREA AND PROPOSED EROSION AND SEDIMENT CONTROL MEASURES MUST BE SUBMITTED TO NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES LAND QUALITY SECTION FOR REVIEW AND APPROVAL.
11. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
12. THE CONTRACTOR IS REQUIRED TO PREVENT EROSION AND SEDIMENT FROM DEPOSITION ON LOCAL ROADS BY PROVIDING STABILIZED CONSTRUCTION ENTRANCES/EXITS. REFER TO CLD STD. 30.11A , STABILIZED CONSTRUCTION ENTRANCE.
13. SPECIAL SEDIMENT CONTROL FENCE, NCDOT STD. 1606.01, MAY BE USED AS AN ACCEPTABLE SUBSTITUTION FOR CLD STD. 30.06A NEAR EXISTING VEGETATION (TO REMAIN) ONLY.

CONSTRUCTION SCHEDULE

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
2. HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
3. FLAG THE CONSTRUCTION LIMITS AND MARK THE TREES FOR PROTECTION.
4. INSTALL EROSION CONTROL MEASURES REQUIRED FOR THE PROPOSED CONSTRUCTION ACTIVITIES. EXISTING DRAINAGE CROSSINGS/SYSTEMS WITH APPROPRIATE EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL THE PROPOSED STORM DRAINAGE CROSSINGS/SYSTEMS ARE COMPLETED. INLET PROTECTION TO EXISTING STORM DRAINAGE STRUCTURES MUST BE PROVIDED UNTIL THE STRUCTURE IS REMOVED OR ABANDONED.
5. CONDUCT LAND CLEARING AND ROUGH GRADING OPERATIONS.
6. INSTALL SURFACE STABILIZATION MEASURES: TEMPORARY AND PERMANENT SEEDING, MULCHING, ETC.
7. CONSTRUCT THE PROPOSED IMPROVEMENTS AS SHOWN ON THE PLANS.
8. INSPECT THE EROSION CONTROL MEASURES WEEKLY AND MAKE ANY NEEDED REPAIRS.
9. ONCE THE PROPOSED CONSTRUCTION ACTIVITIES HAVE BEEN INSTALLED, REMOVE ALL TEMPORARY MEASURES.

MAINTENANCE PLAN

1. ALL TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AS NOTED IN THE EROSION CONTROL DETAILS.
2. INSPECT THE EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT AND WEEKLY AND REMOVE ACCUMULATED SEDIMENT AND MAKE ANY NEEDED REPAIRS.
3. TRAPPED SEDIMENT SHALL BE PROPERLY REMOVED FROM THE EROSION CONTROL MEASURES AND DISPOSED OF.

VEGETATIVE PLAN

1. ALL DISTURBED AREAS WILL BE STABILIZED BY TEMPORARILY AND/OR PERMANENTLY VEGETATED WITH SEED AND MULCH AS RECOMMENDED BY THE SEEDING SCHEDULE SHOWN ON EC1 DUE TO THE RESTRAINTS ON THE LENGTH OF IMPROVEMENTS AND/OR DURATION OF EXPOSED DISTURBED AREAS.

CHARLOTTE

Plans Prepared By:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

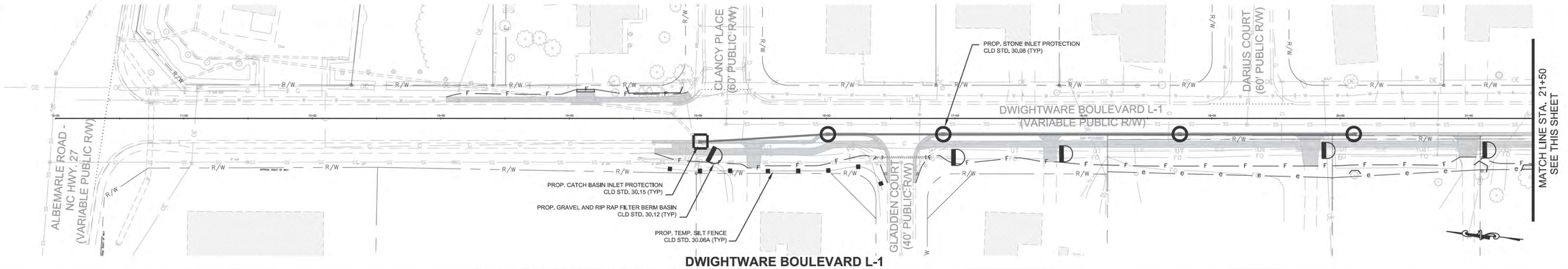
NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER

NOT TO SCALE	SCALE
512-08-053	JOB NO.
H:\LandProjects\U60214_01_Eastwoods\plotsheets	CAD FILE PATH
BS, WB	PREPARED BY
BS, WB	CHECKED BY
SH	APPROVED BY
9-30-13	DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

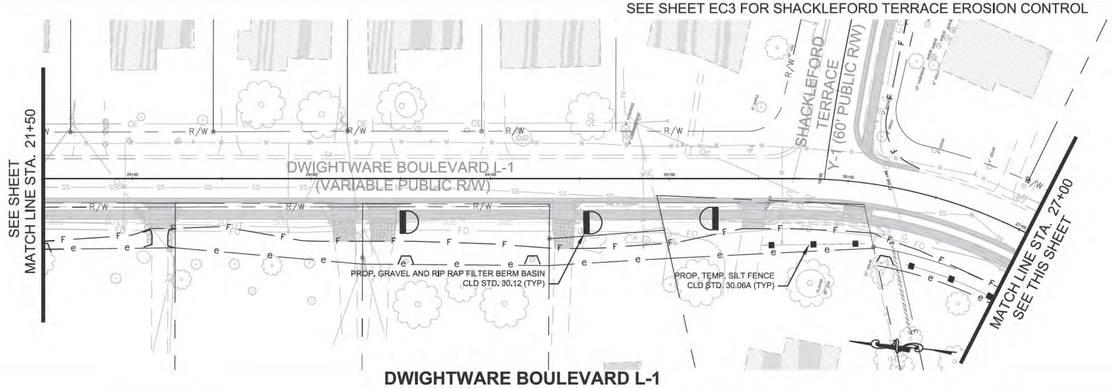
EROSION CONTROL PLAN NOTES AND DETAILS

SHEET EC1 OF EC3



DWIGHTWARE BOULEVARD L-1

SEE SHEET EC3 FOR SHACKLEFORD TERRACE EROSION CONTROL



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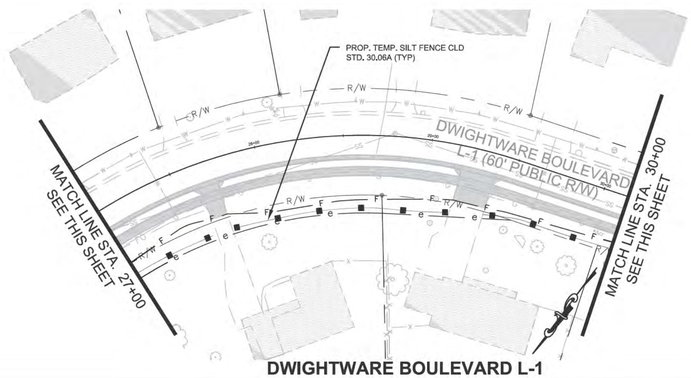

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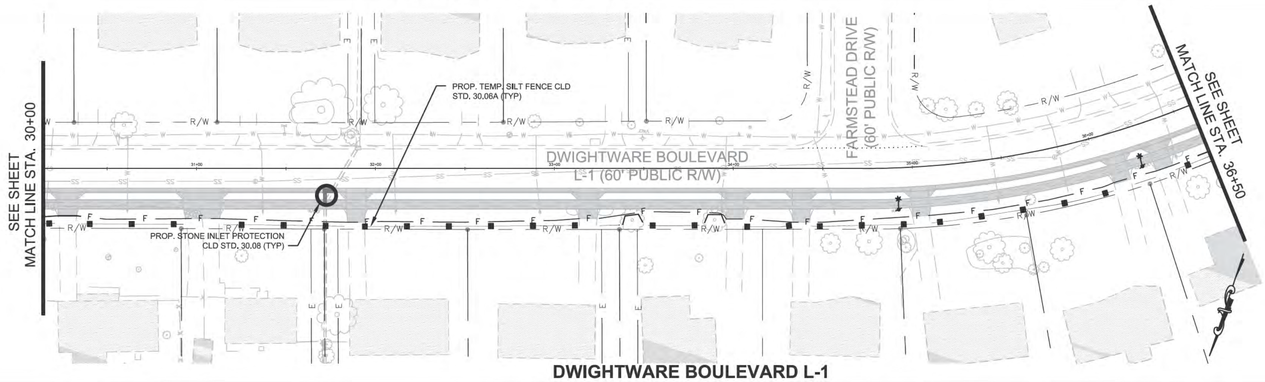

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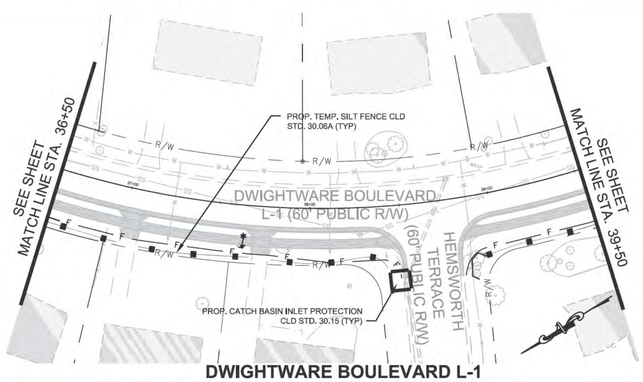

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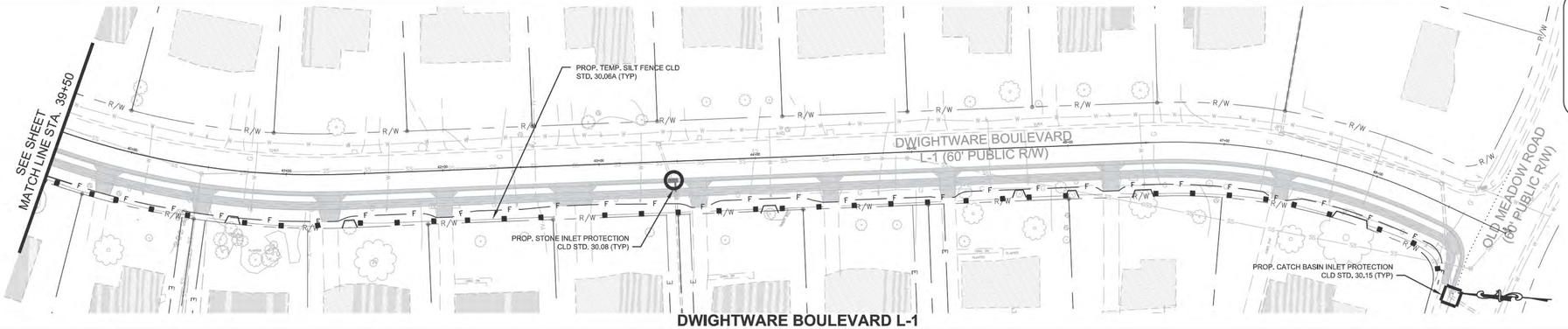

DWIGHTWARE BOULEVARD L-1

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SEE SHEET EC1 FOR EROSION CONTROL NOTES AND DETAILS.

LEGEND

- PROP. GRAVEL AND RIP RAP FILTER BERM BASIN CLD STD. 30.12
- PROP. TEMP. ROCK CHECK DAM CLD STD. 30.10
- PROP. STONE INLET PROTECTION CLD STD. 30.08
- PROP. CATCH BASIN INLET PROTECTION CLD STD. 30.15
- PROP. TEMP. SILT FENCE CLD STD. 30.06A OR NCDOT STD. 1606.01 WHERE APPLICABLE
- PROP. TREE PROTECTION - CLD STD. 40.12 OR NCDOT STD. 1606.01

CHARLOTTE.

Plans Prepared By:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 22110 ENGINEER SANDRA H. HAYES

512-08-053	JOB NO.
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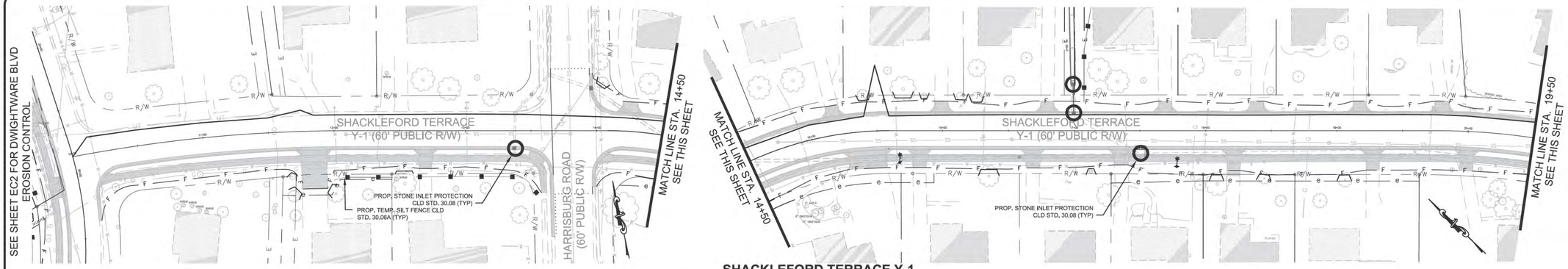
BS, WB	PREPARED BY
SH	APPROVED BY
1" = 40'	SCALE
BS, WB	CHECKED BY
9-30-13	DATE

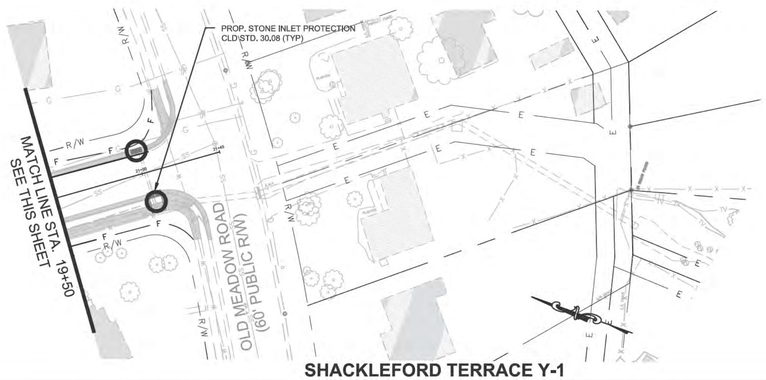
EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

EROSION CONTROL PLAN DWIGHTWARE BLVD L-1

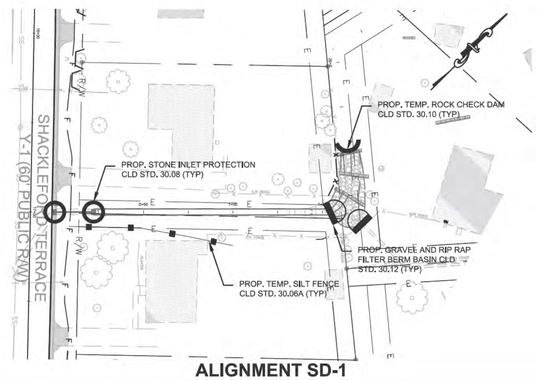
SHEET EC2 OF EC3



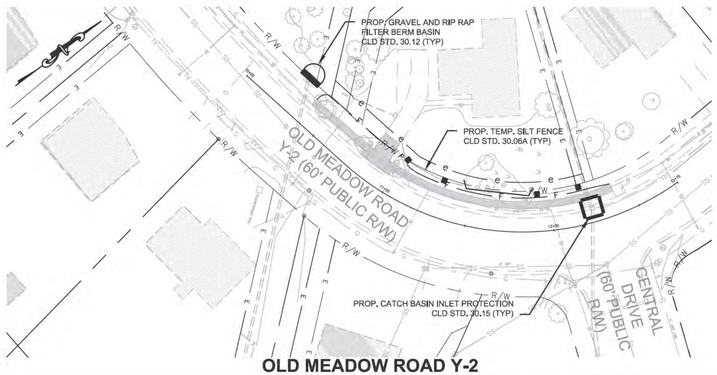
SHACKLEFORD TERRACE Y-1



SHACKLEFORD TERRACE Y-1



ALIGNMENT SD-1



OLD MEADOW ROAD Y-2

STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WILL BE STABILIZED WITH THE APPROPRIATE TEMPORARY AND/OR PERMANENT VEGETATIVE EROSION CONTROL MEASURE(S) WITHIN 14 DAYS OF DISTURBANCE. PROVIDE GROUND COVER ON PERIMETER AREAS AND SLOPES GREATER THAN 3:1 WITHIN 7 CALENDAR DAYS OF FINAL GRADING.

SEE SHEET EC1 FOR EROSION CONTROL NOTES AND DETAILS.

LEGEND

- PROP. GRAVEL AND RIP RAP FILTER BERM BASIN CLD STD. 30.12
- PROP. TEMP. ROCK CHECK DAM CLD STD. 30.10
- PROP. STONE INLET PROTECTION CLD STD. 30.08
- PROP. CATCH BASIN INLET PROTECTION CLD STD. 30.15
- PROP. TEMP. SILT FENCE CLD STD. 30.06A OR NCDOT STD. 1606.01 WHERE APPLICABLE
- PROP. TREE PROTECTION - CLD STD. 40.12 OR NCDOT STD. 1606.01

CHARLOTTE

Plans Prepared By:

USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

NO.	DATE	BY	DESCRIPTION

NORTH CAROLINA PROFESSIONAL SEAL 32110 ENGINEER SANDRA P. HAYES

512-08-053 JOB NO.
1" = 40' SCALE
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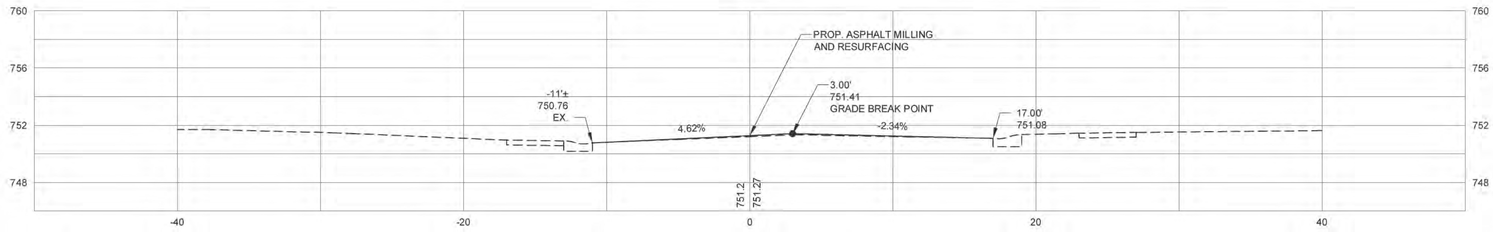
BS, WB PREPARED BY
BS, WB CHECKED BY
SH APPROVED BY
9-30-13 DATE

EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT

EROSION CONTROL PLAN Y-1, Y-2, AND SD-1

SHEET EC3 OF EC3

12+50



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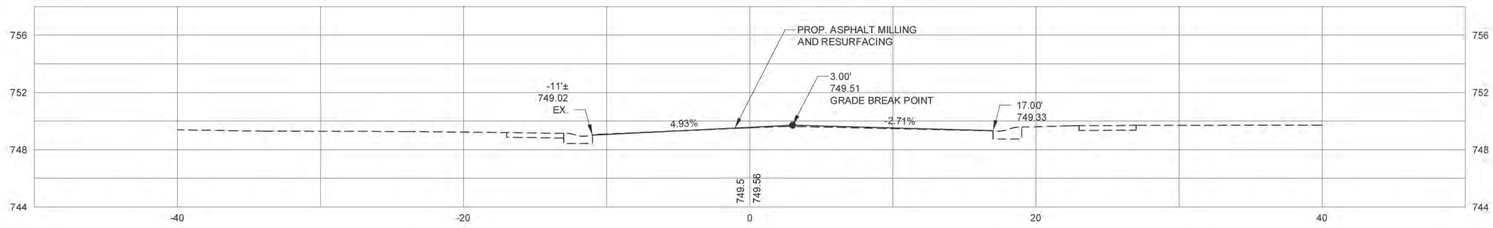

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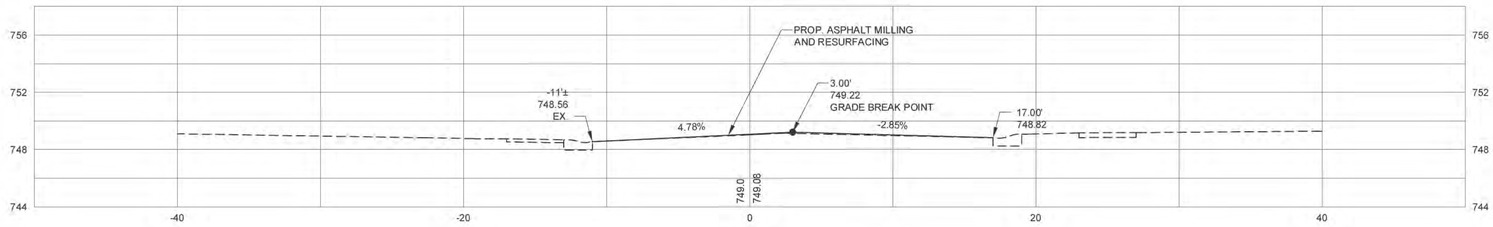

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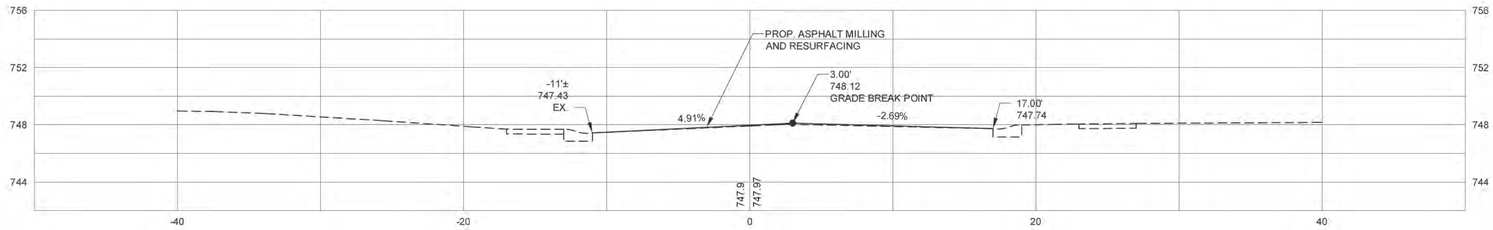

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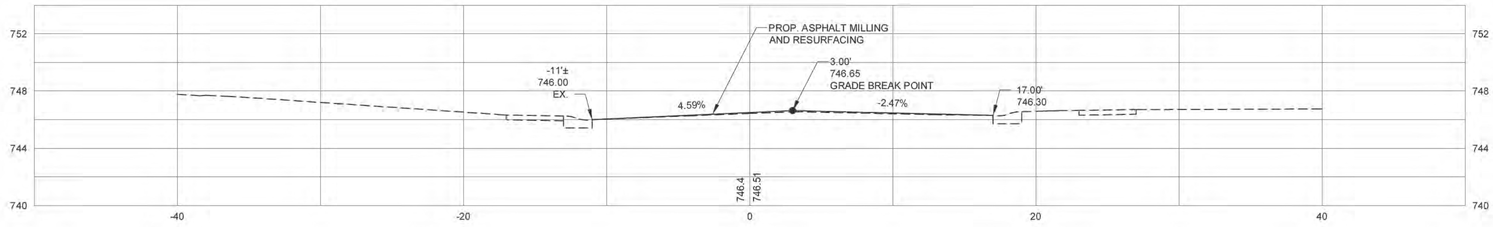
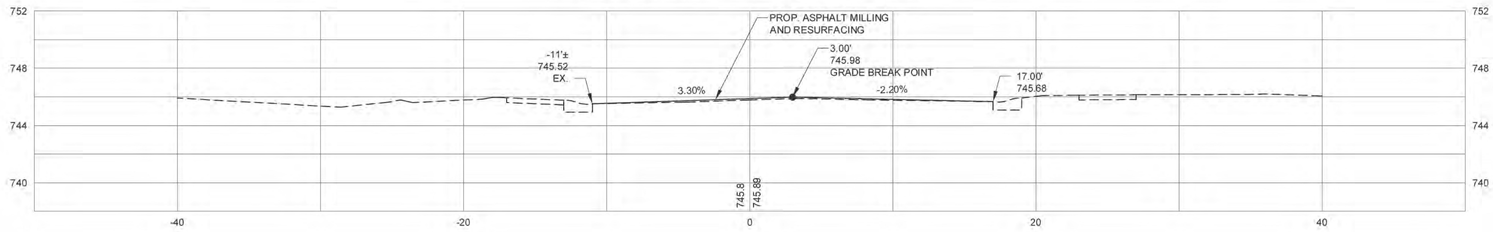


10+79.80 ALBEMARLE ROAD SE CR-PT



SHEET X01 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
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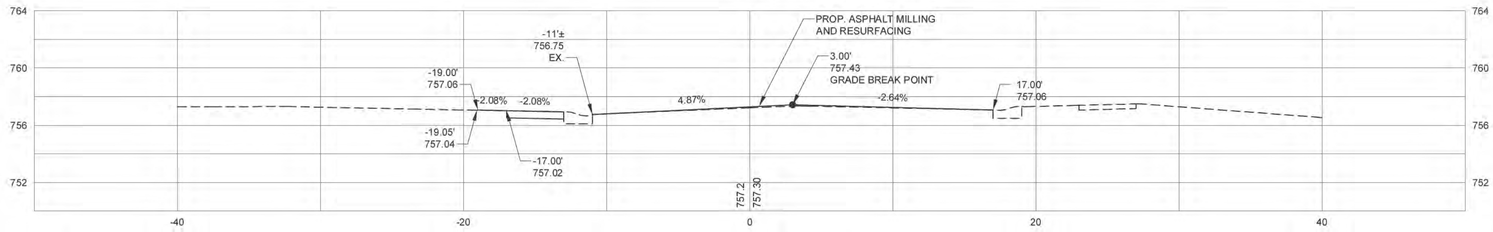
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

14+50



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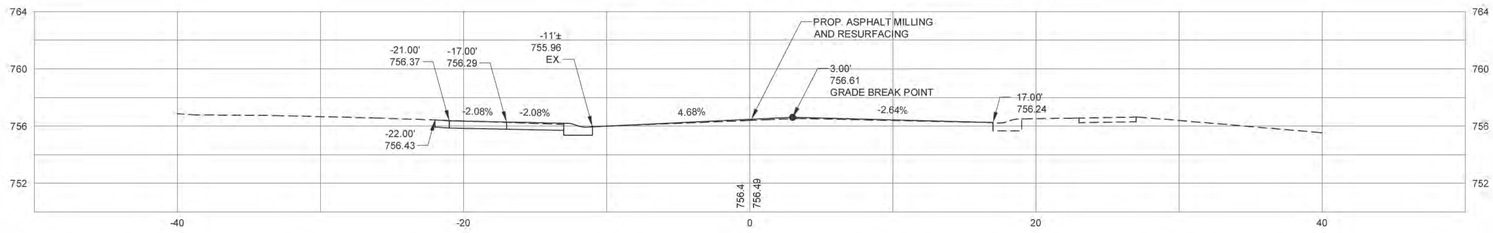

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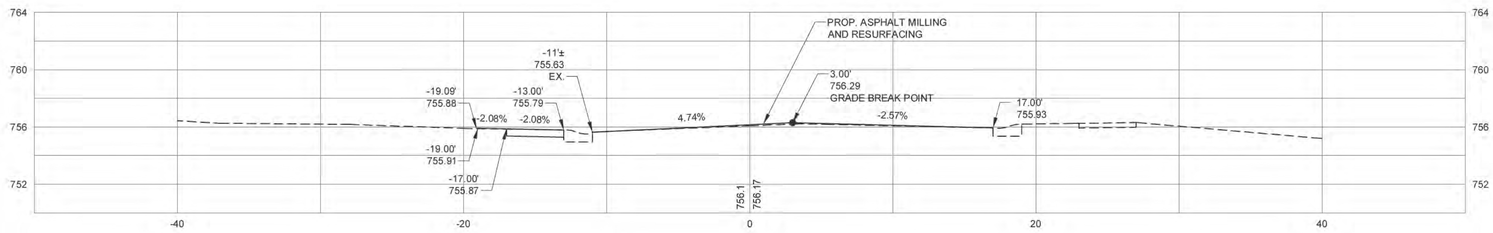

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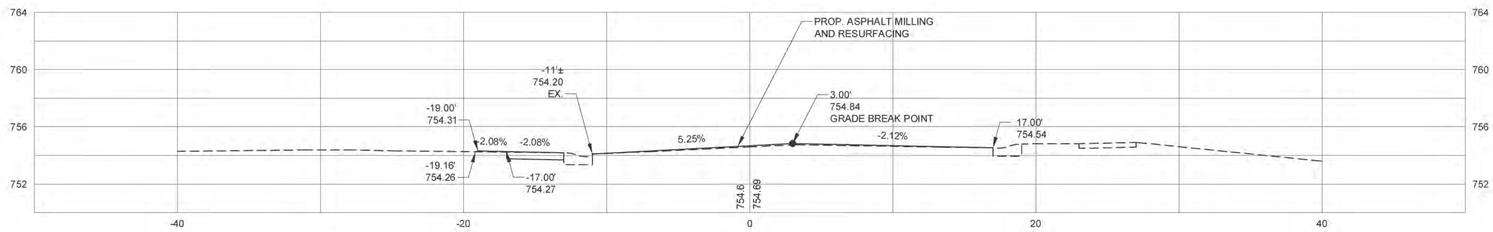

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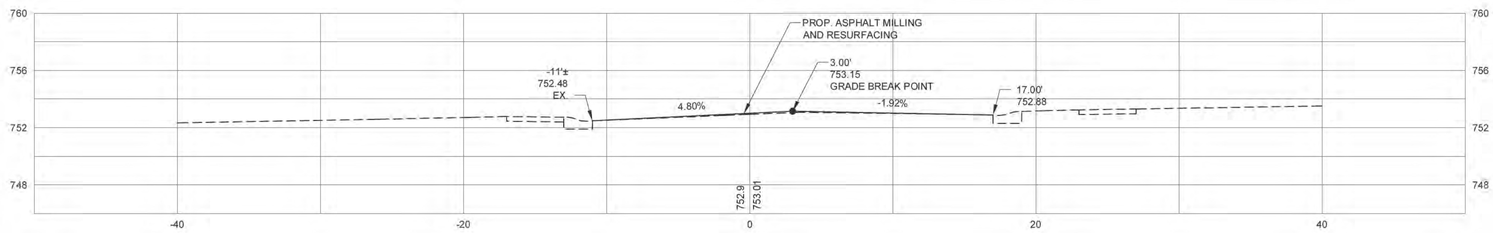
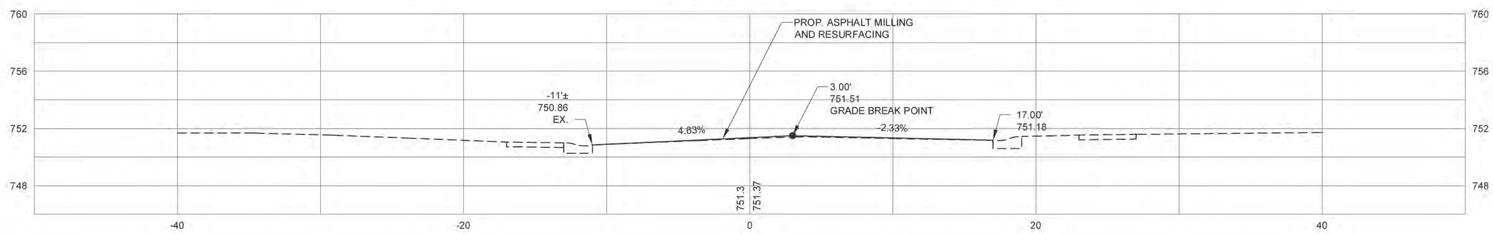


12+52.82 DRIVEWAY CL



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
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OF X34	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

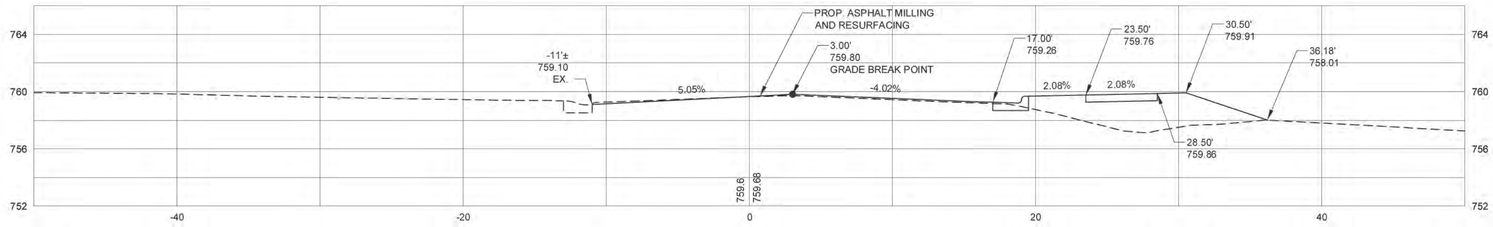
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

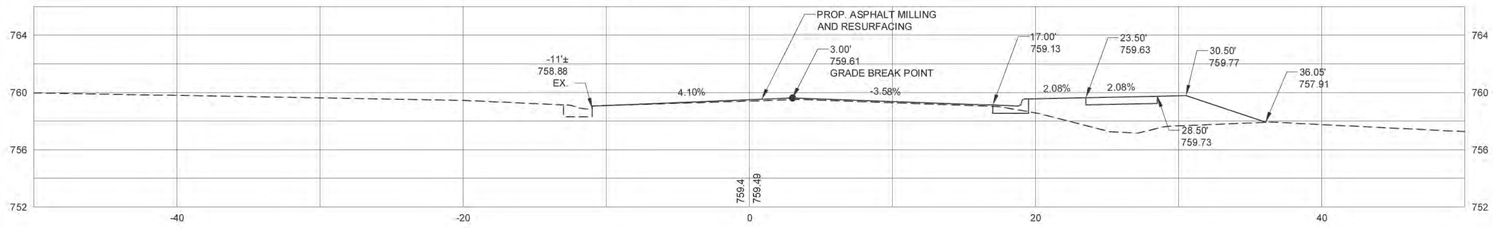
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

15+78.33 DWIGHTWARE BLVD - TRANSITION



15+57.61 CLANCY PLACE SE CR - PT



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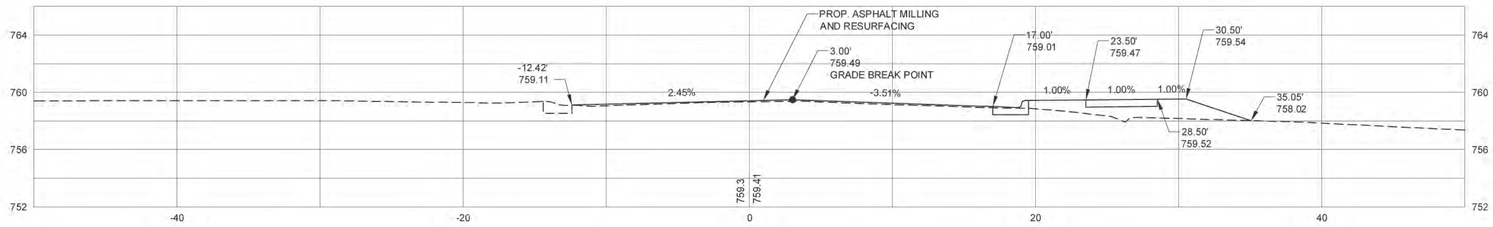

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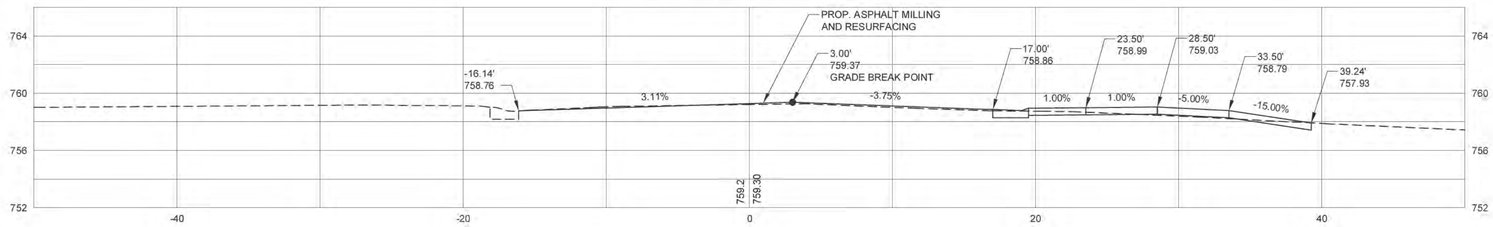

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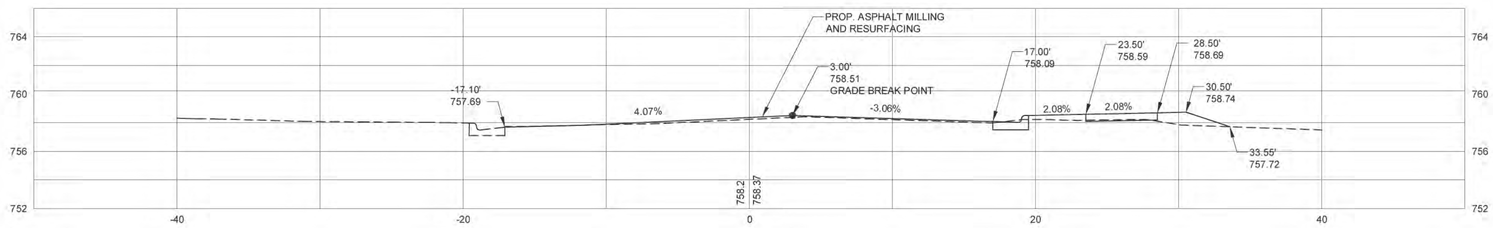
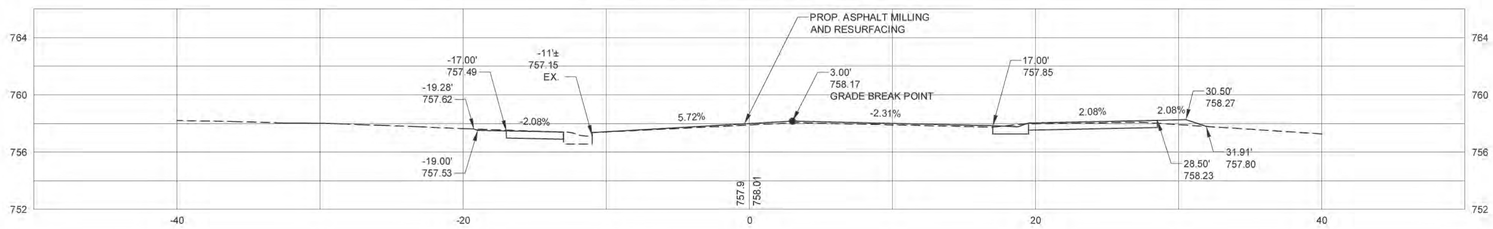


14+83.65 CLANCY PLACE NE CR - PC



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
X03		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
OF X34	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

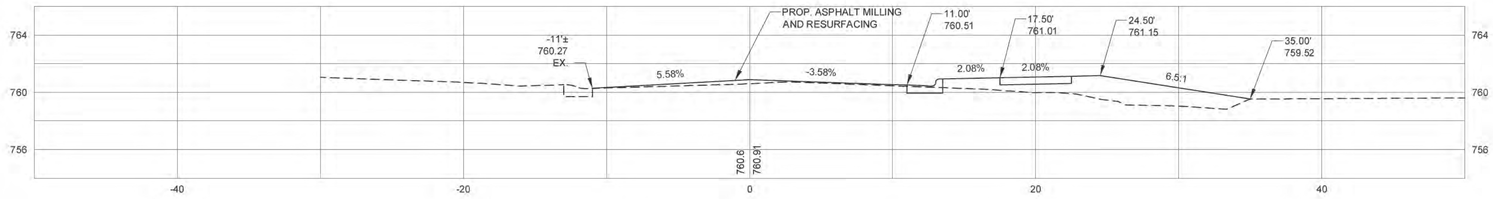
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

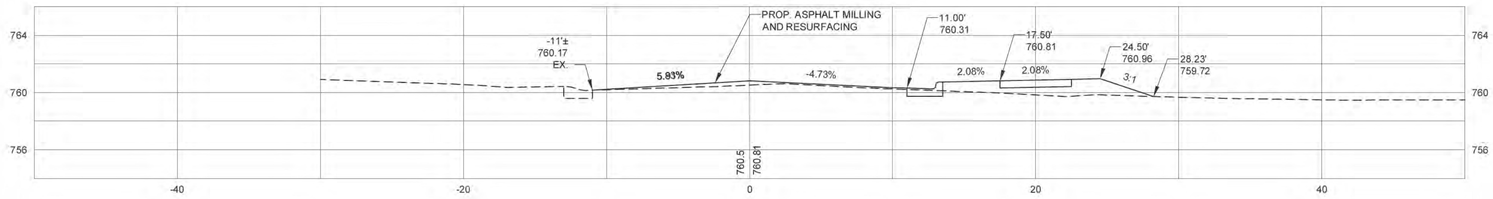
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

17+00



16+89.58 GLADDEN COURT SW CR - PT



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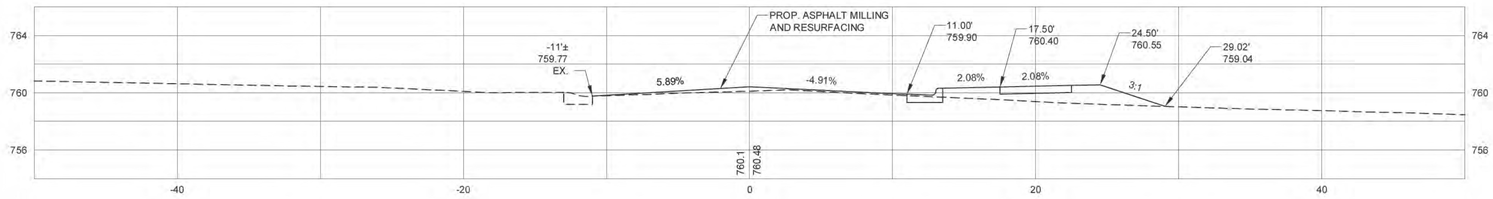
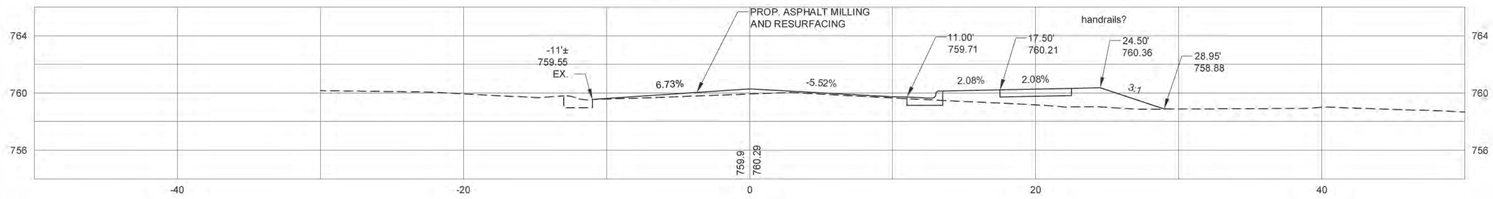


16+27.58 GLADDEN COURT NW CR - PC



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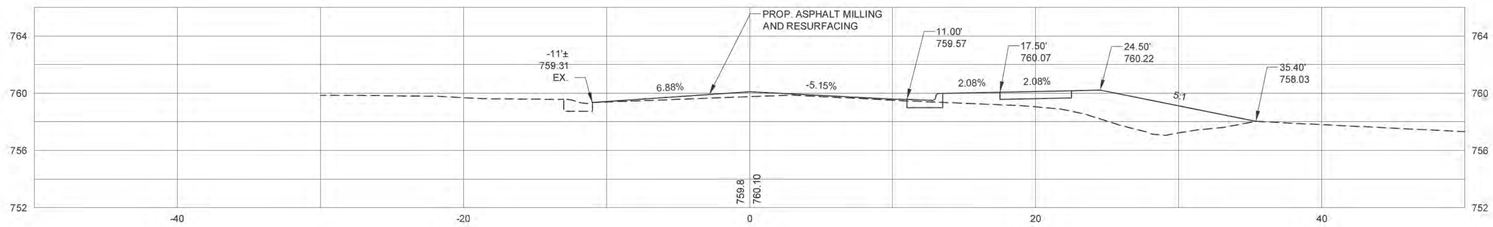
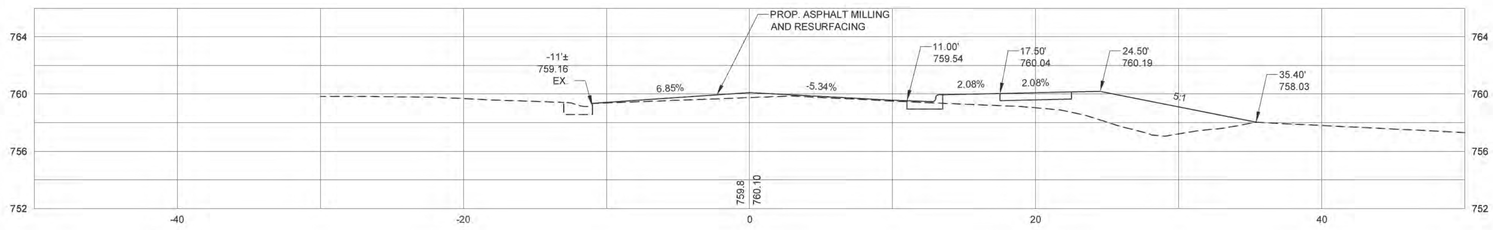
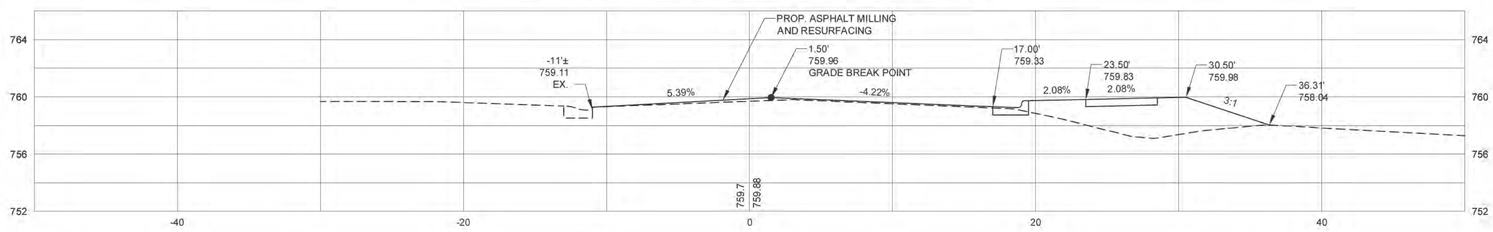


15+99.73 DWIGHTWARE BLVD L-1 TRANS CR2 - PT



15+87.93 DWIGHTWARE BLVD L-1 TRANS CR1 - PT



SHEET X04 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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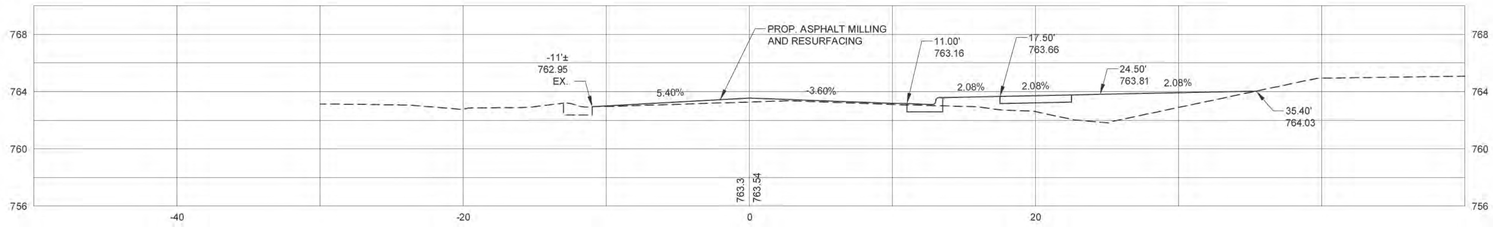
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

19+50



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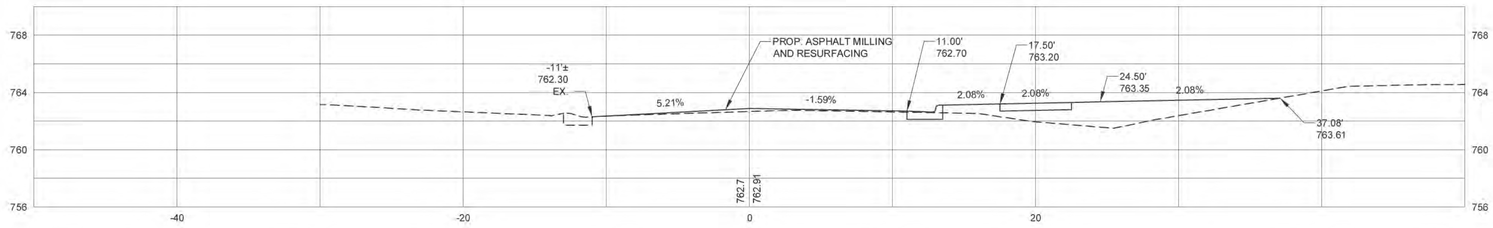

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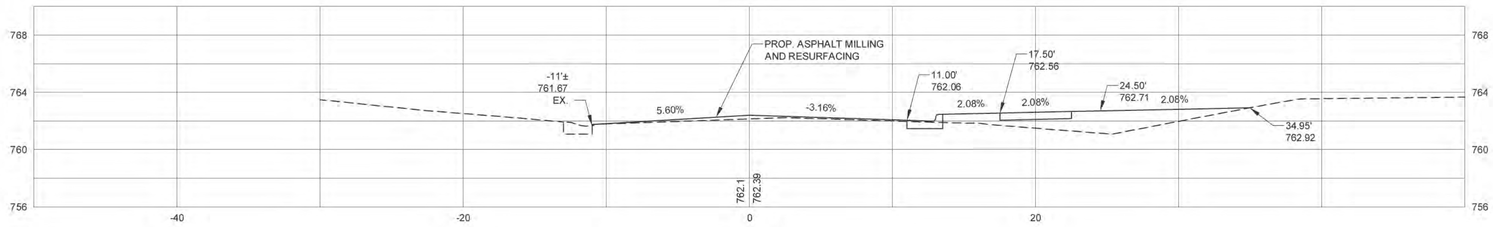
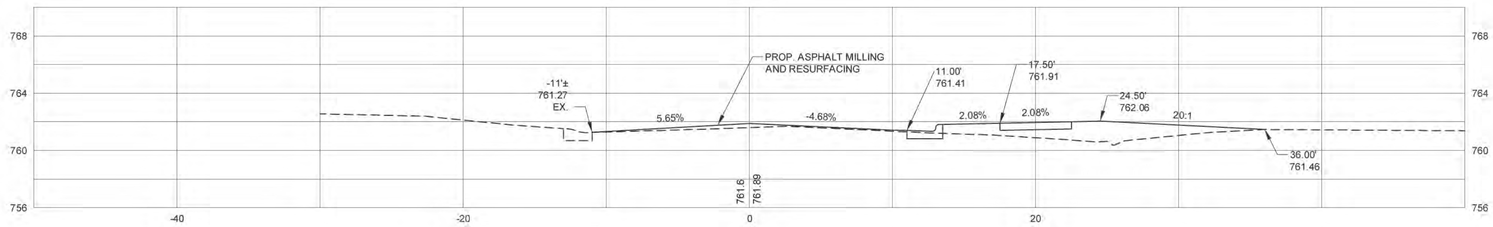
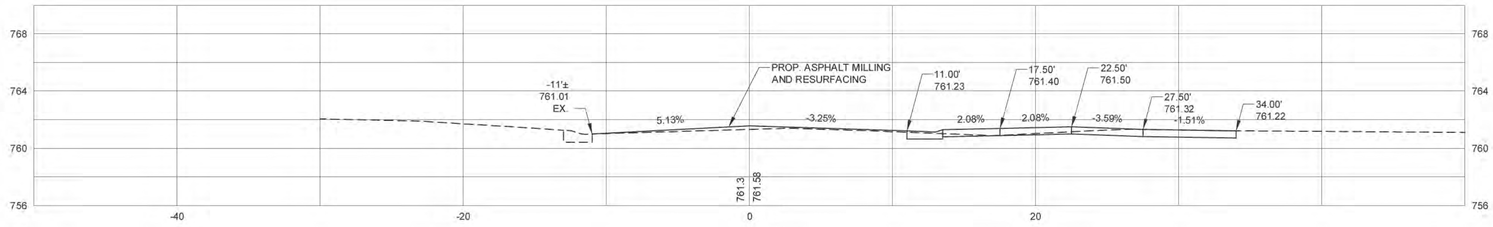


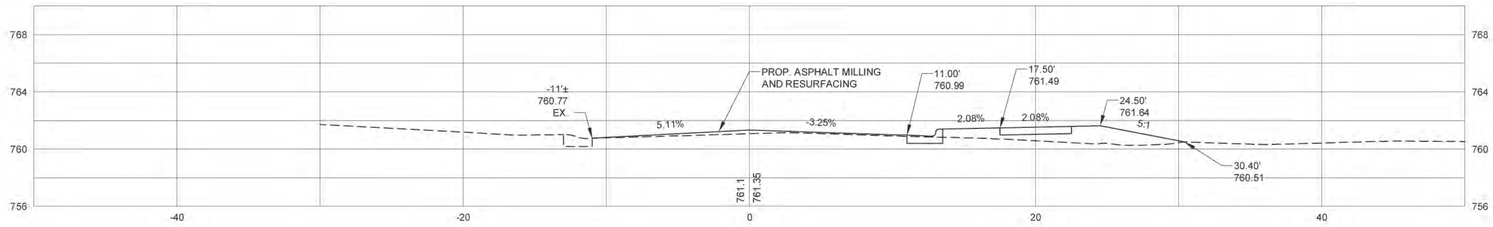
18+00



17+74.13 DRIVEWAY CL

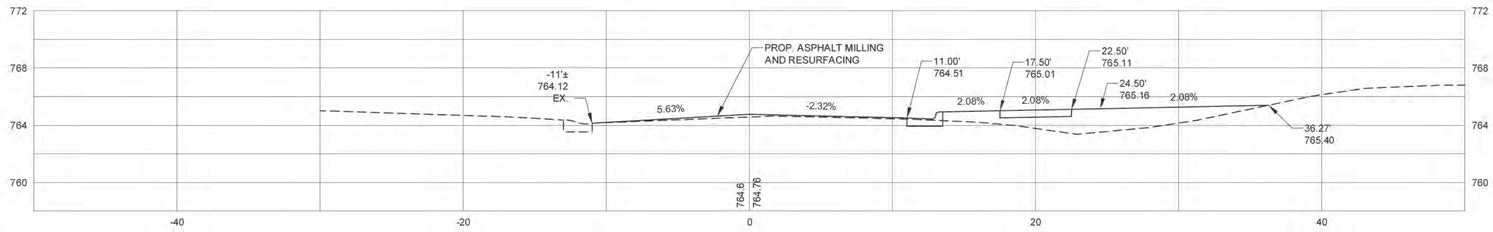


17+50

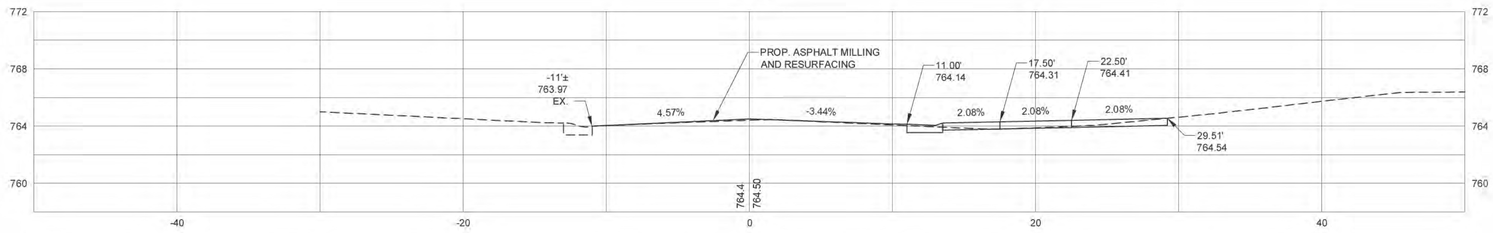


SHEET X05 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT DWIGHTWARE BLVD L-1 CROSS SECTIONS	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE	NO.	DATE	BY	DESCRIPTION	Plans Prepared By: USI INFRASTRUCTURE OF CAROLINA, INC. 1043 E. MOREHEAD STREET, SUITE 203 CHARLOTTE, NORTH CAROLINA 28204 NC LICENSE # C-1950	CHARLOTTE.
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH							
		BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY						
		SH APPROVED BY	9-30-13 DATE						

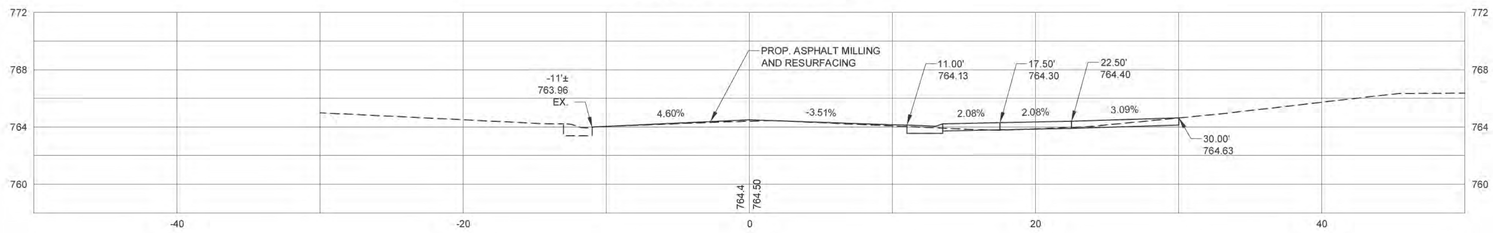
21+50



21+00



20+99.12 DRIVEWAY CL



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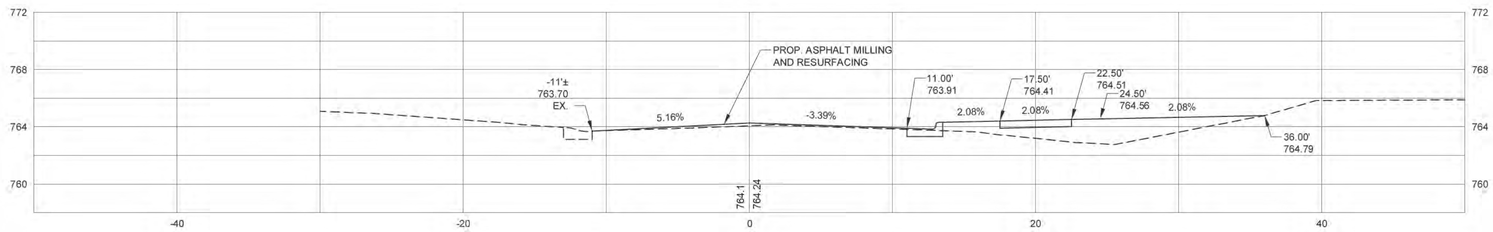
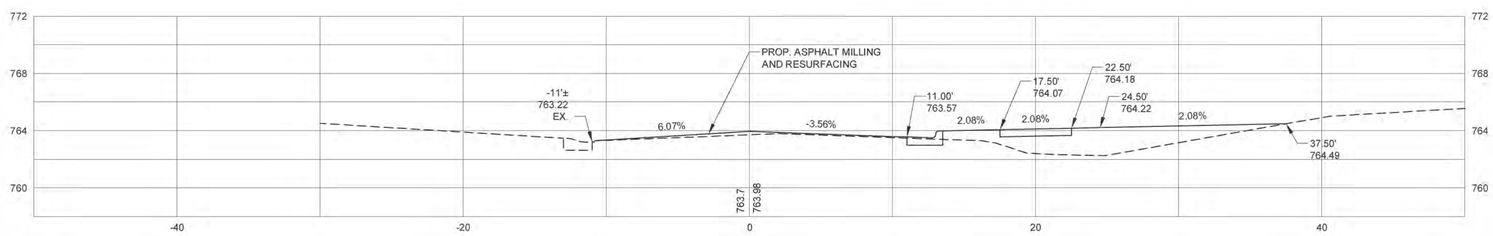
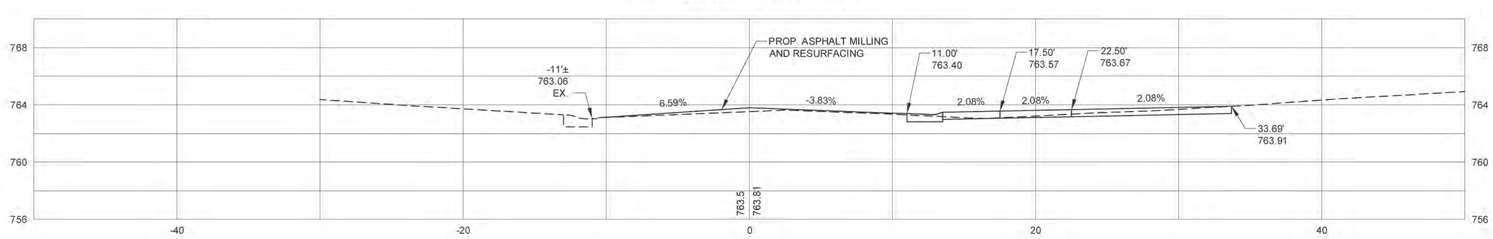


20+00



19+76.39 DRIVEWAY CL



SHEET X06 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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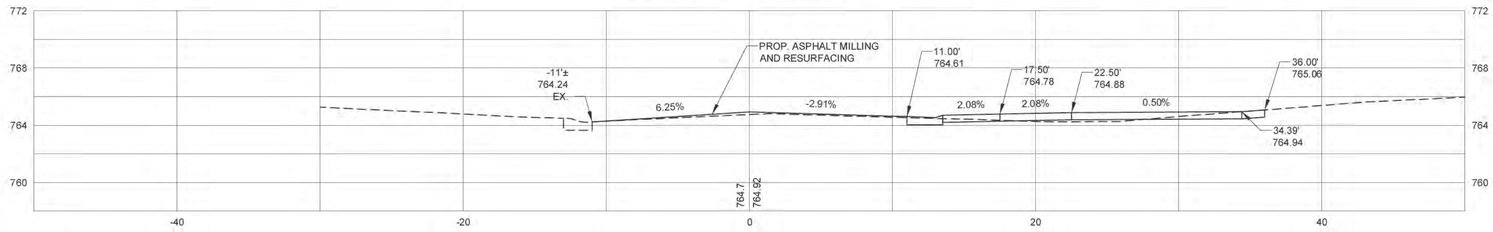
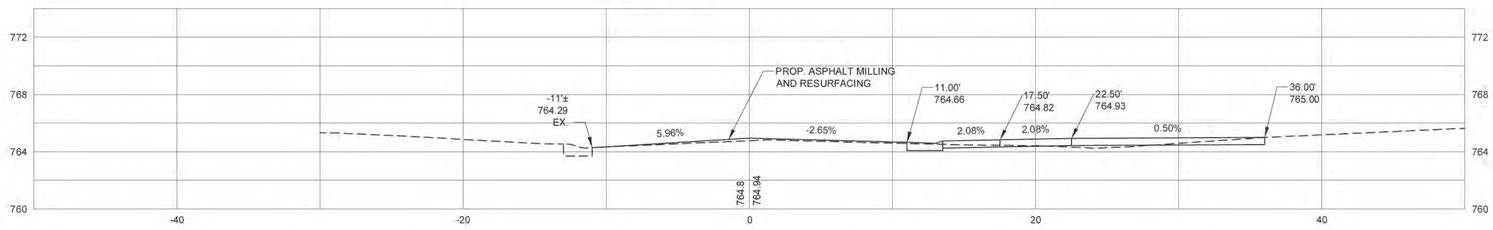
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

23+39.63 DRIVEWAY CL



23+17.99 DRIVEWAY CL



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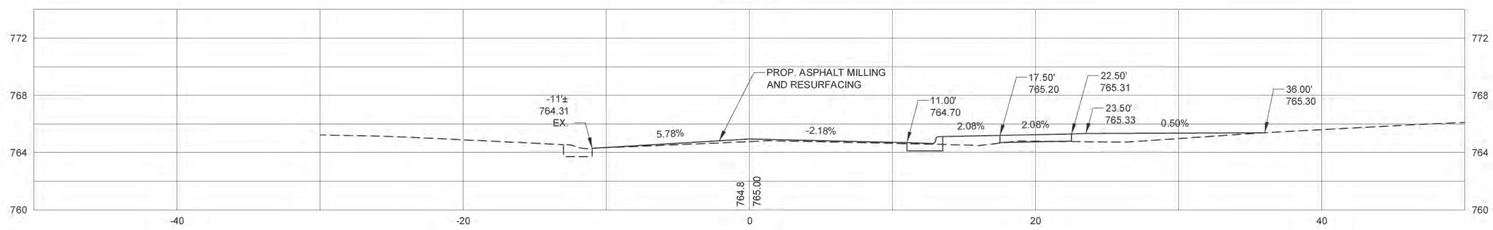
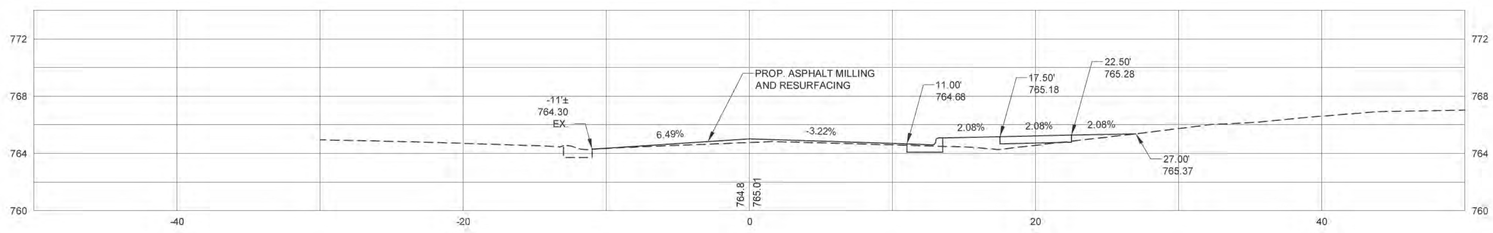
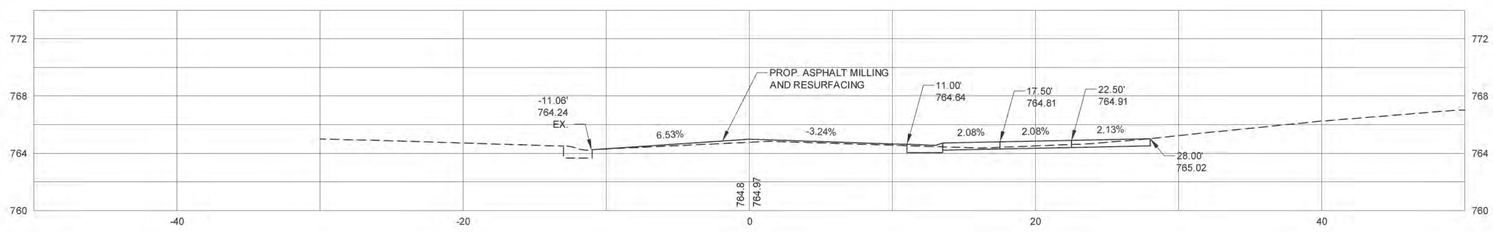


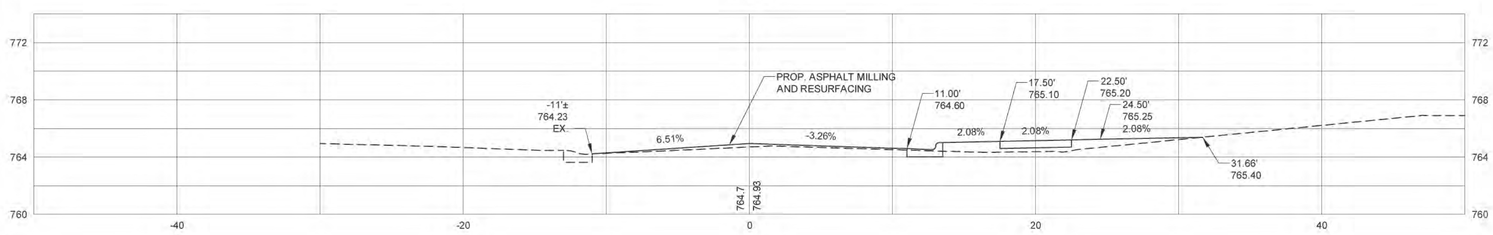
22+50



22+15.27 DRIVEWAY CL



22+00



SHEET X07 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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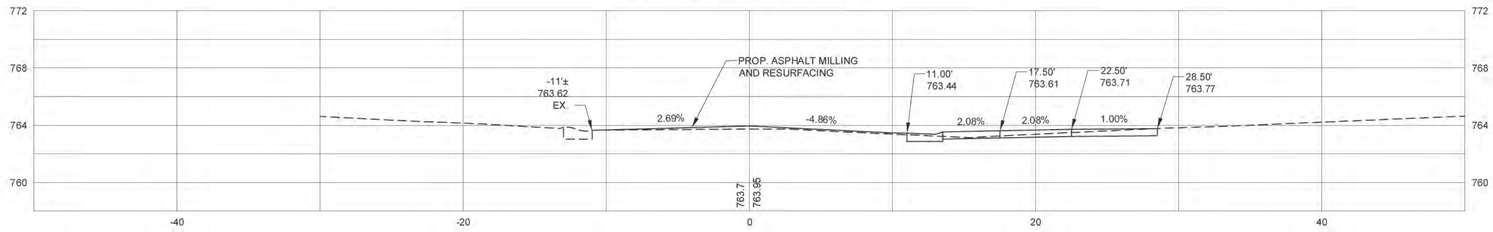
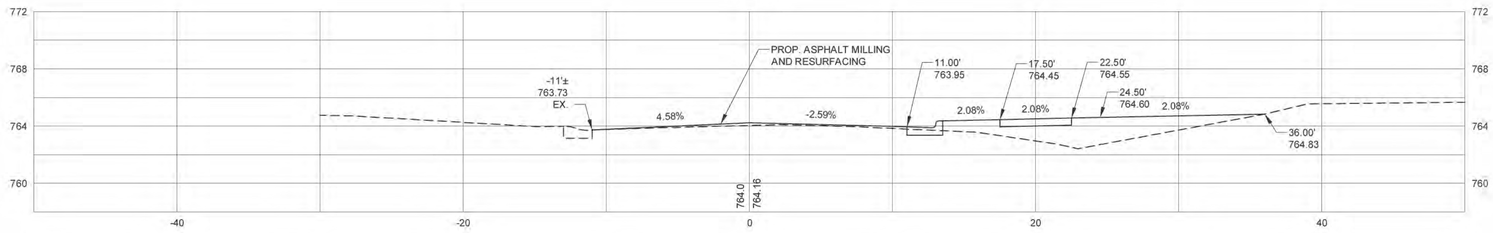
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

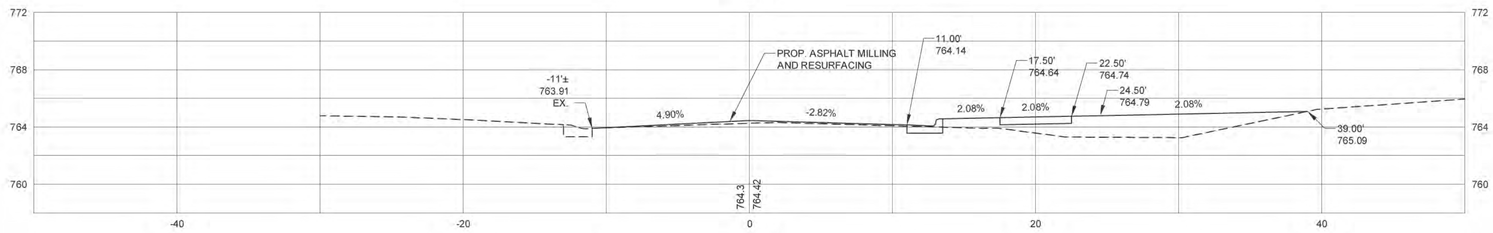
25+46.23 DRIVEWAY CL



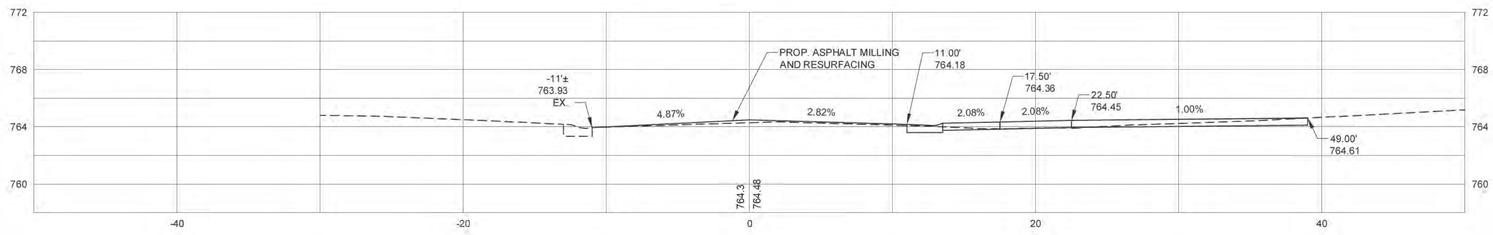
25+00



24+50



24+41.07 DRIVEWAY CL



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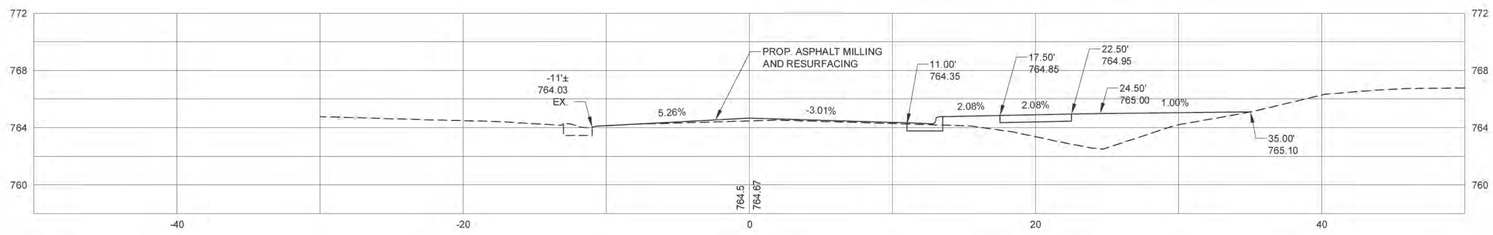
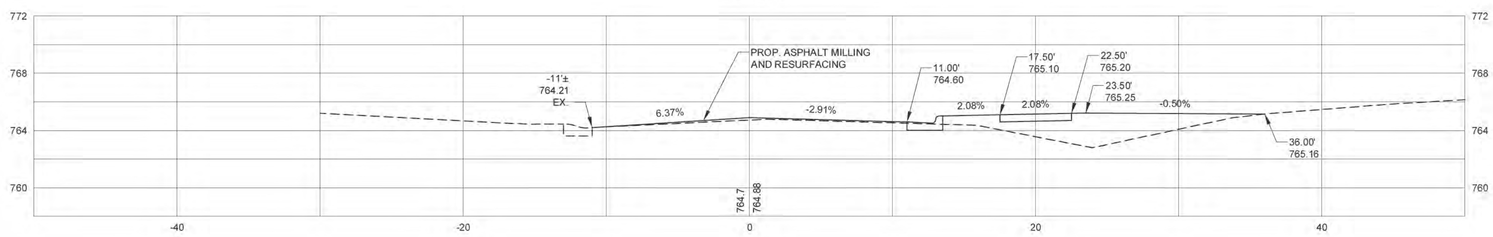


23+50



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
X08		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
OF X34	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
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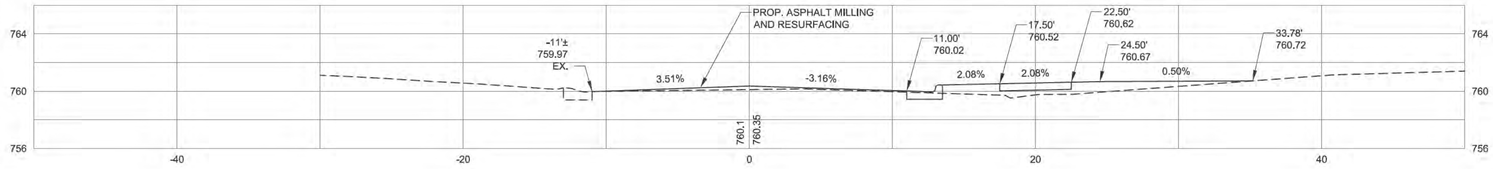
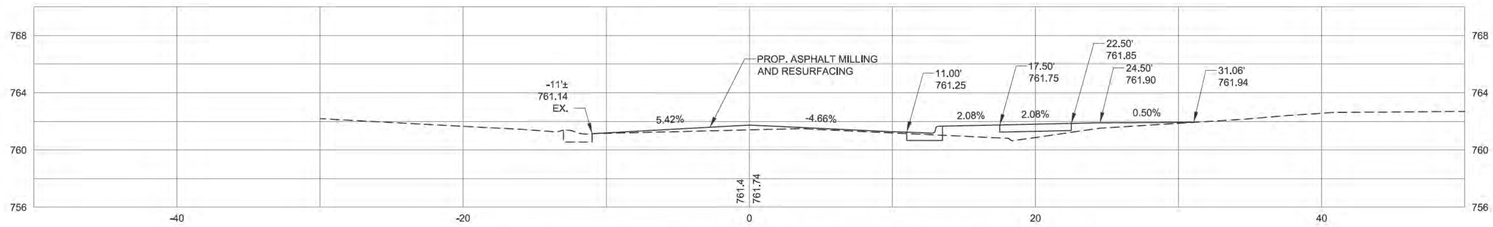
NC LICENSE # C-1950

CHARLOTTE.

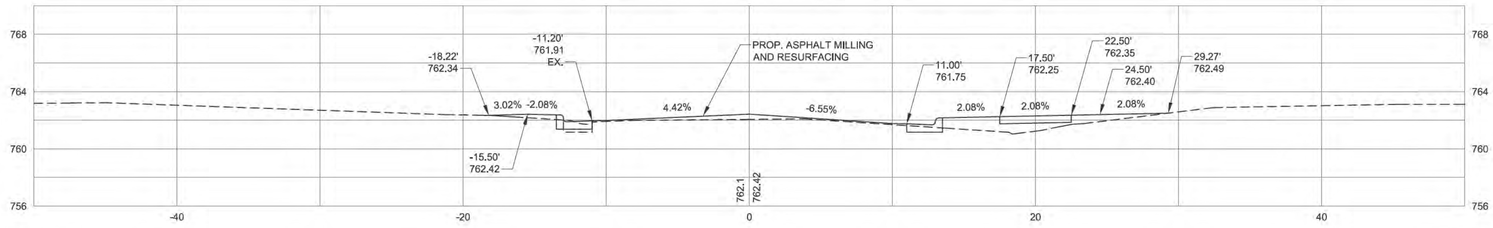
27+00



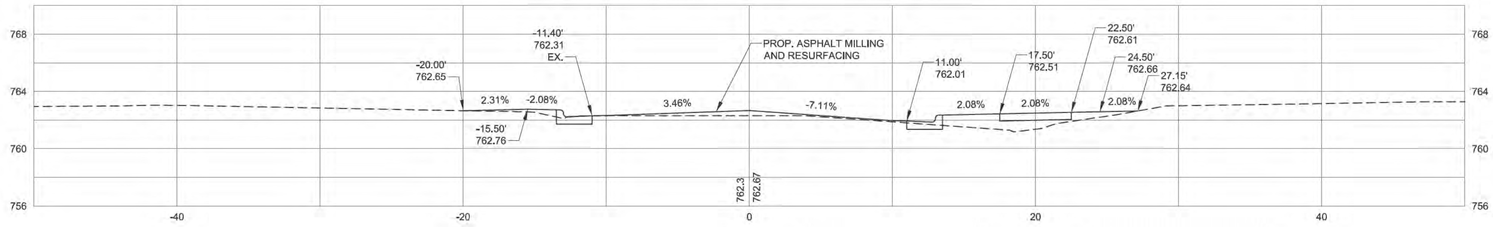
26+50



26+27.74 SHACKLEFORD TERRACE Y-1 TRANSITION



26+19.19 SHACKLEFORD TERRACE Y-1 SE CR - PC



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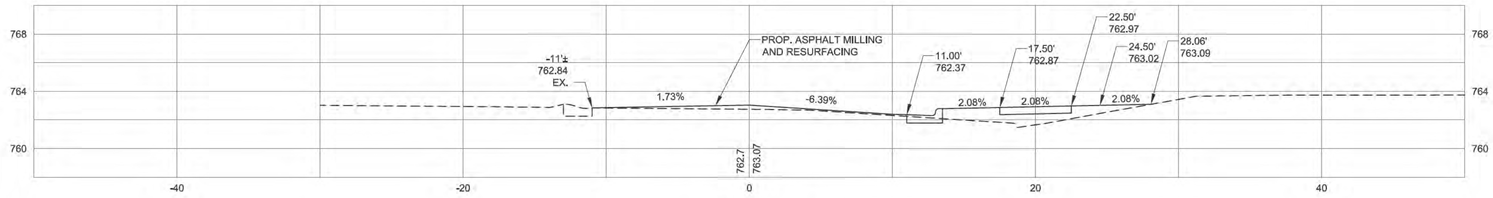
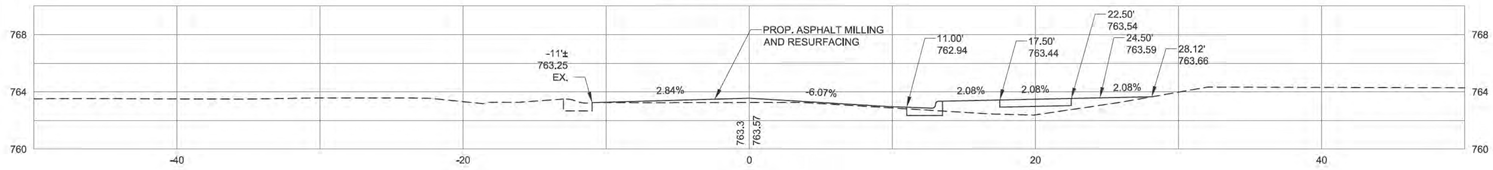
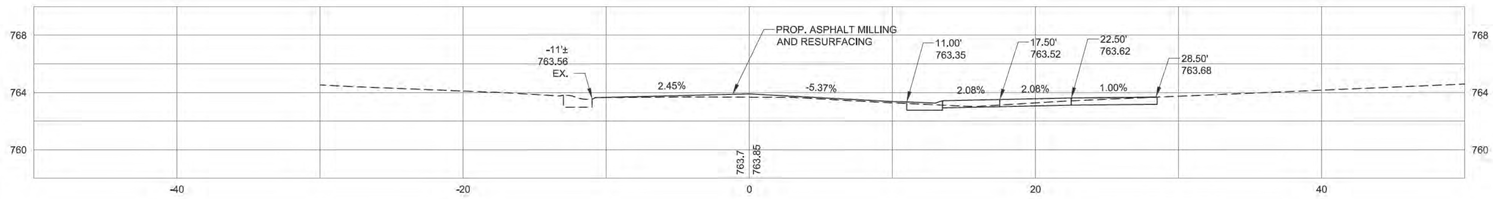


25+73.22 L-1 PC

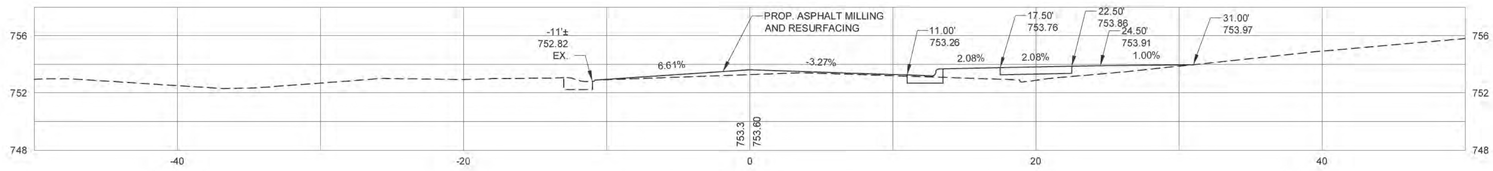


25+50

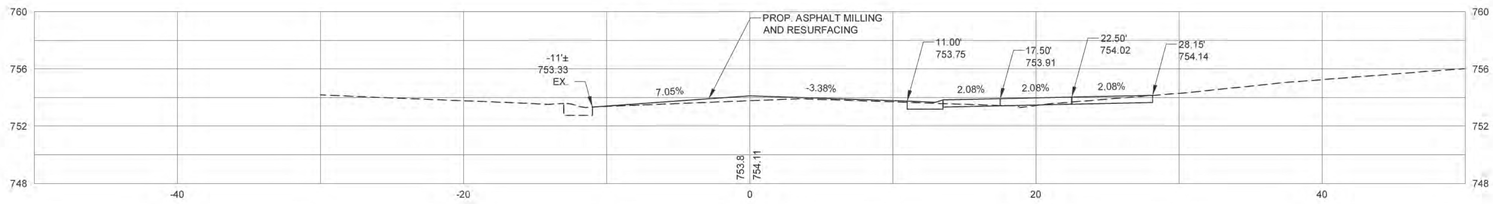


SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE		NO.	DATE	BY	DESCRIPTION	Plans Prepared By:
X09		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH							USI INFRASTRUCTURE OF CAROLINA, INC.
OF	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY						1043 E. MOREHEAD STREET, SUITE 203 CHARLOTTE, NORTH CAROLINA 28204 NC LICENSE # C-1950
X34		SH APPROVED BY	9-30-13 DATE						CHARLOTTE.

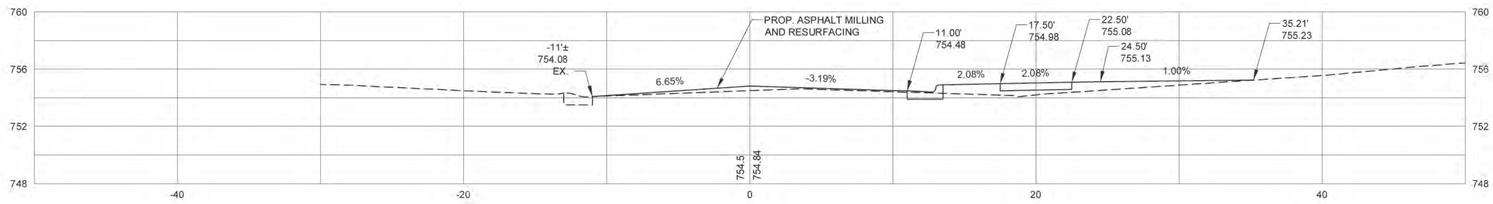
29+49.78 L-1 PT



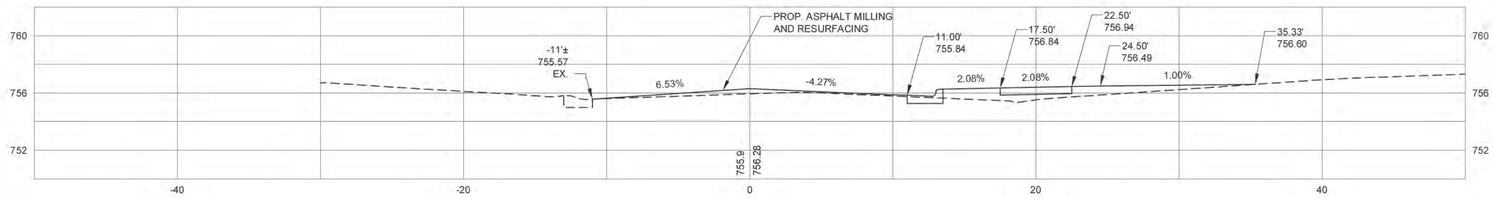
29+28.42 DRIVEWAY CL



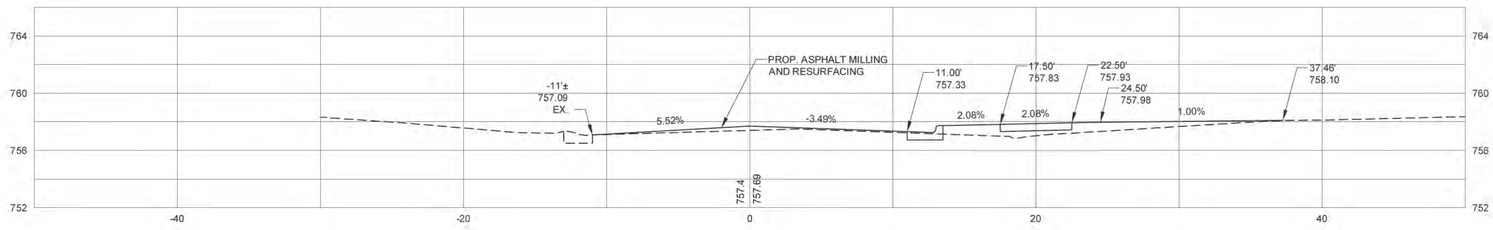
29+00



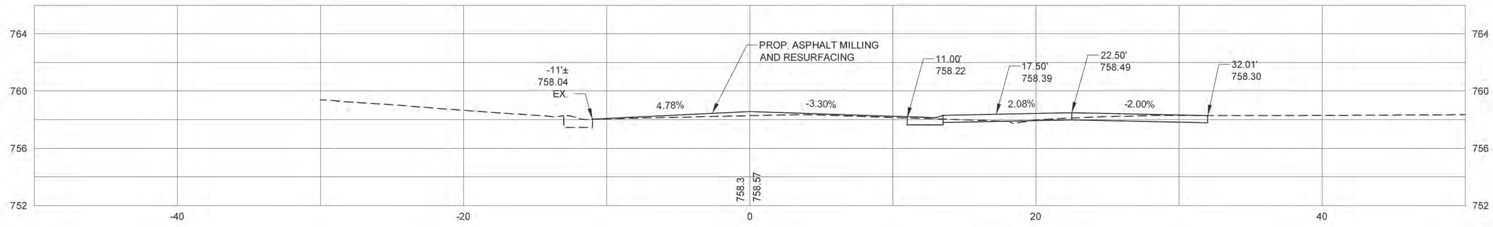
28+50



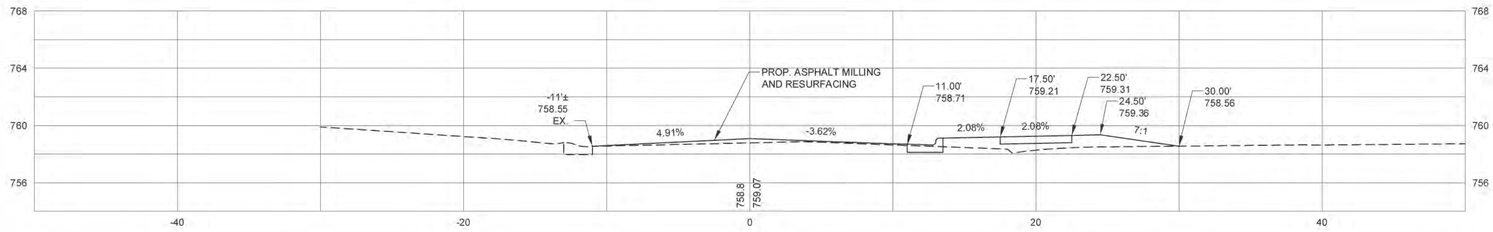
28+00



27+68.70 DRIVEWAY CL

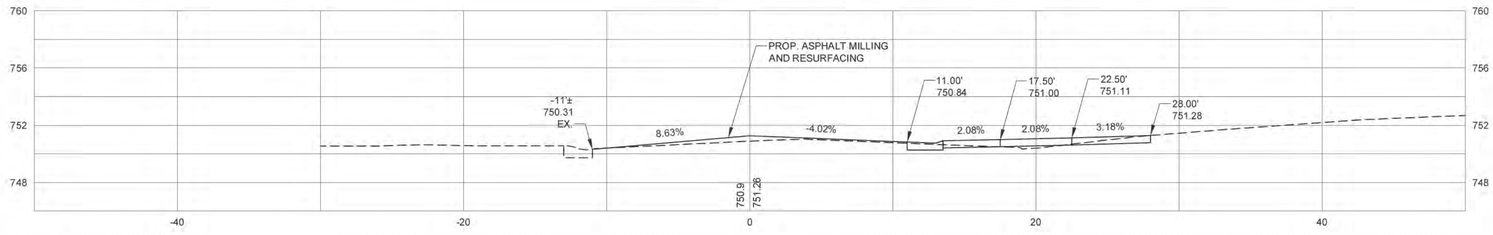


27+50

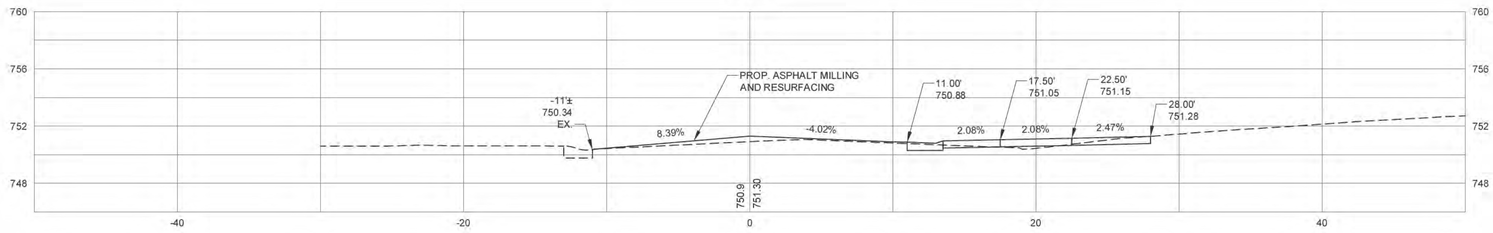


SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE		NO.	DATE	BY	DESCRIPTION	Plans Prepared By:
X10		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH							USI INFRASTRUCTURE OF CAROLINA, INC.
OF	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY						1043 E. MOREHEAD STREET, SUITE 203 CHARLOTTE, NORTH CAROLINA 28204 NC LICENSE # C-1950
X34		SH APPROVED BY	9-30-13 DATE						CHARLOTTE.

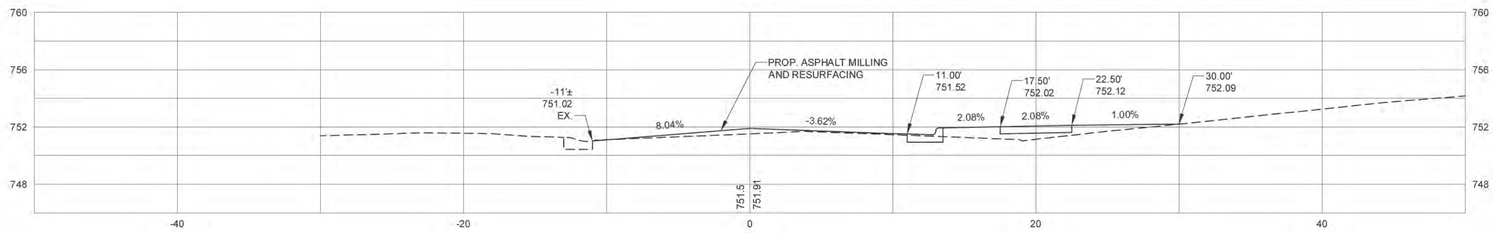
31+03.64 DRIVEWAY CL



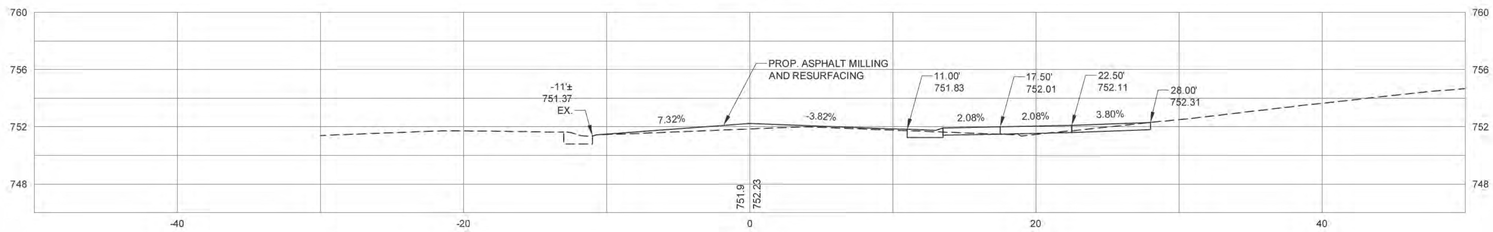
31+00



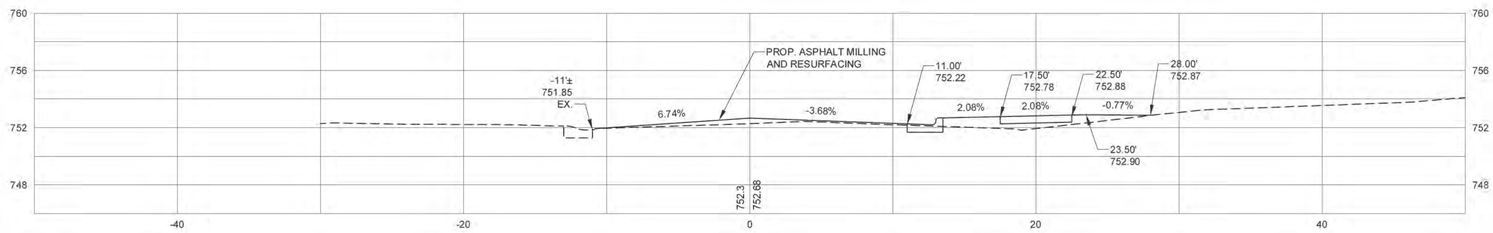
30+50



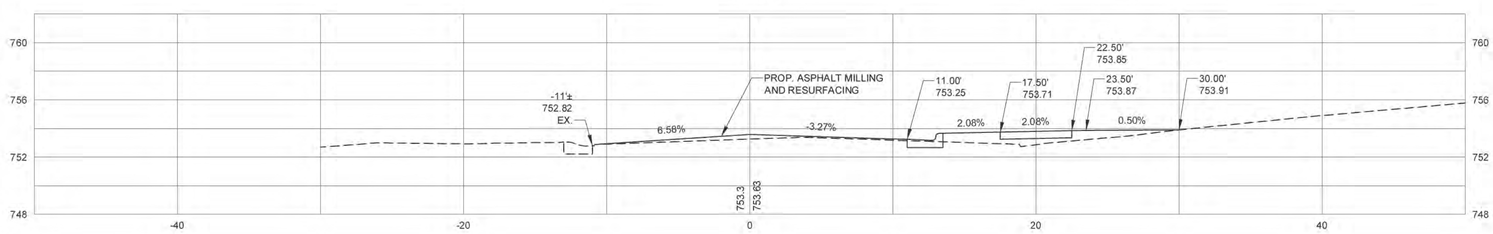
30+27.82 DRIVEWAY CL



30+00

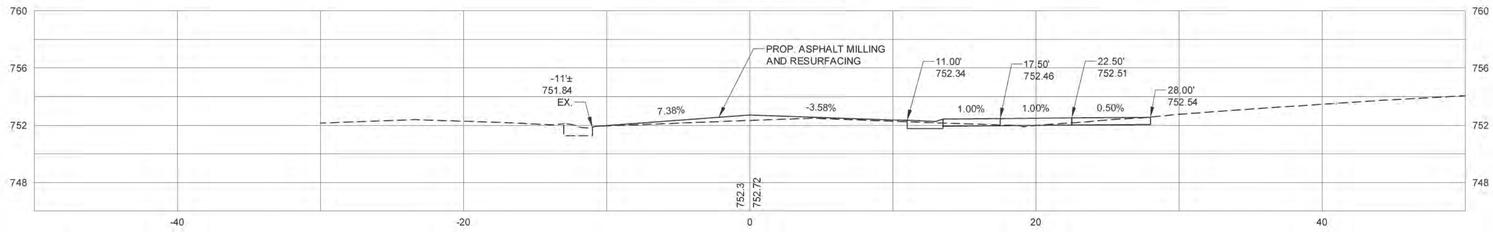


29+50

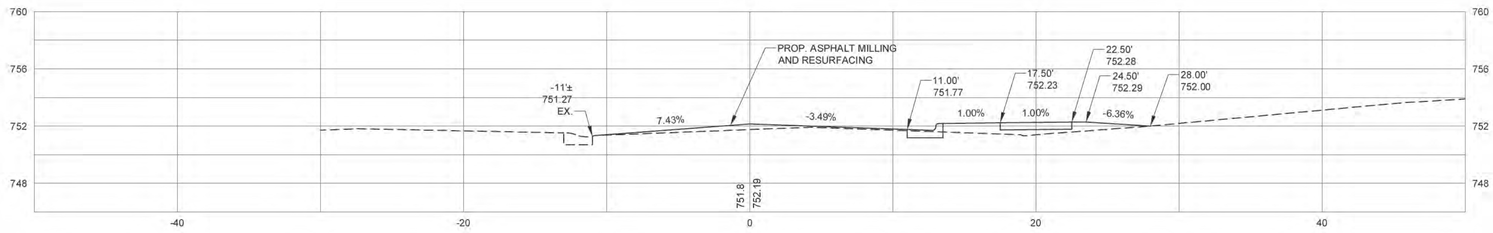


SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE		NO.	DATE	BY	DESCRIPTION	Plans Prepared By:
X11		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH							USI INFRASTRUCTURE OF CAROLINA, INC.
OF	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY						1043 E. MOREHEAD STREET, SUITE 203 CHARLOTTE, NORTH CAROLINA 28204 NC LICENSE # C-1950
X34		SH APPROVED BY	9-30-13 DATE						CHARLOTTE.

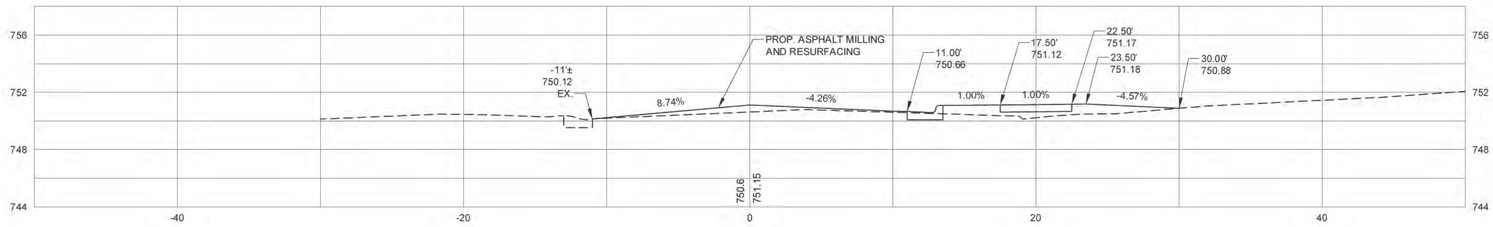
33+18.70 DRIVEWAY CL



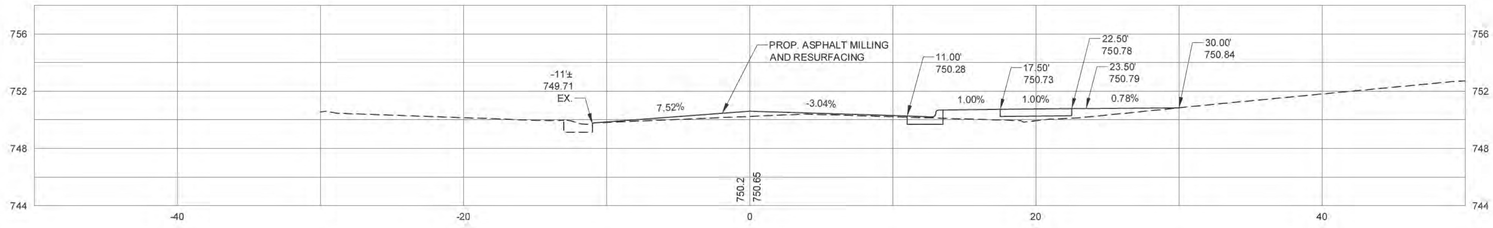
33+00



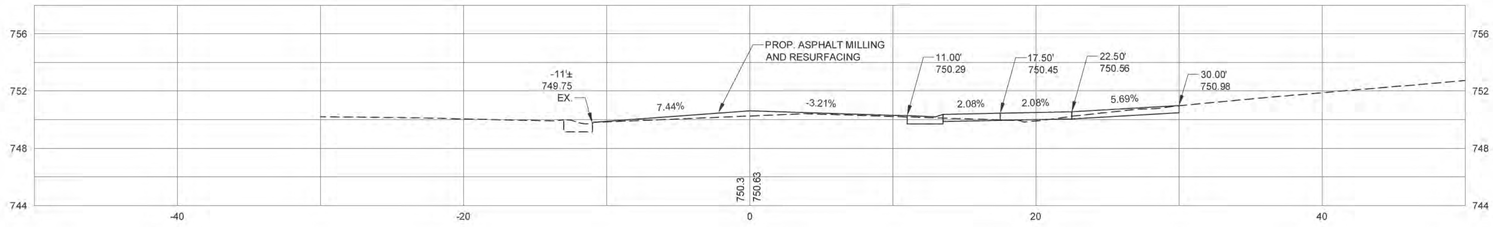
32+50



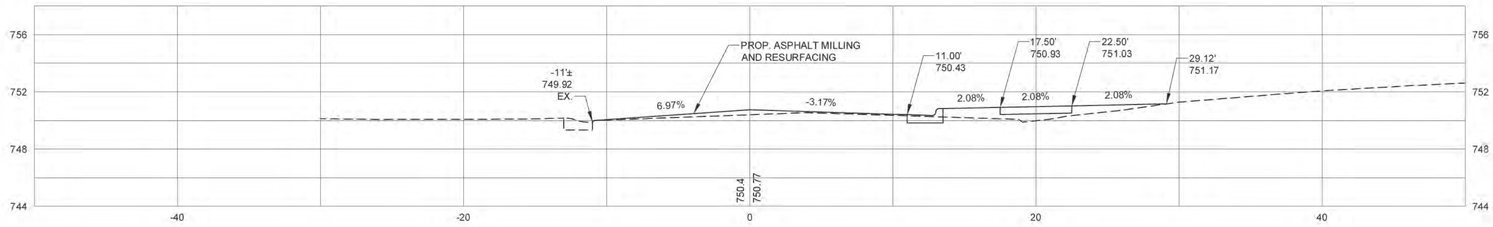
32+00



31+89.10 DRIVEWAY CL



31+50



SHEET X12 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT DWIGHTWARE BLVD L-1 CROSS SECTIONS	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH	
		BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

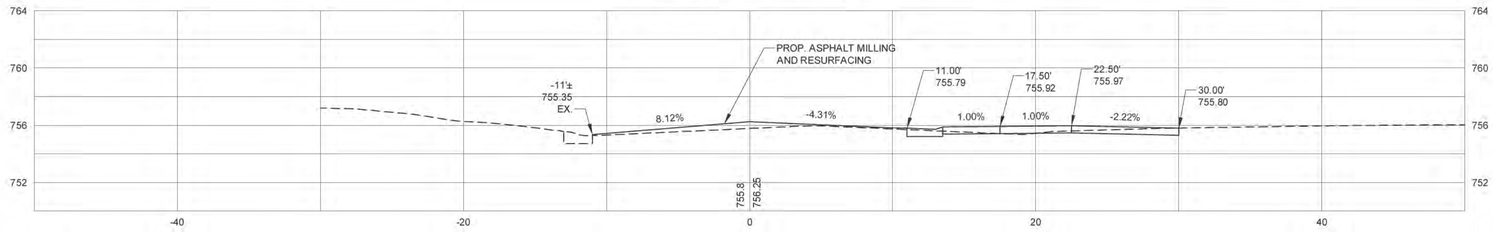
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

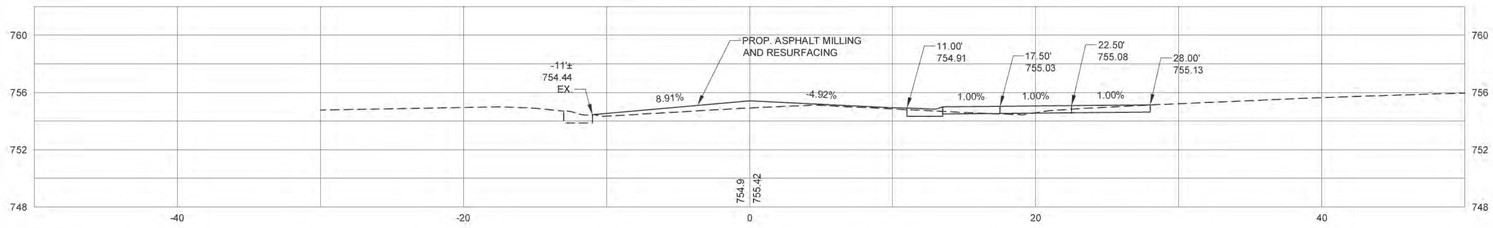
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

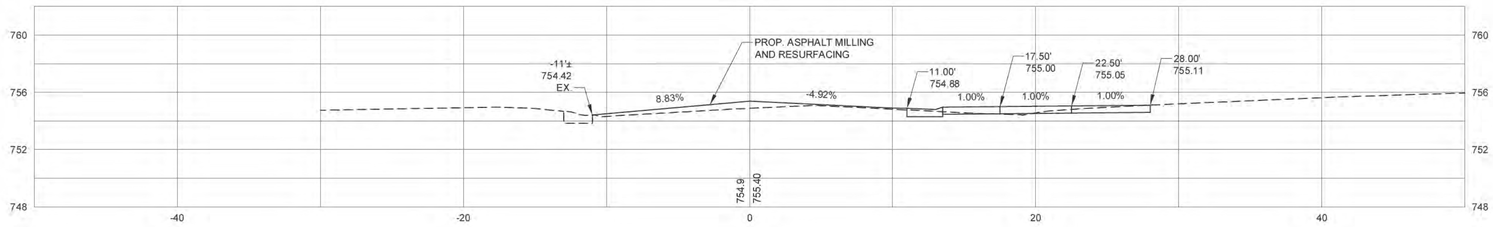
34+37.99 DRIVEWAY CL



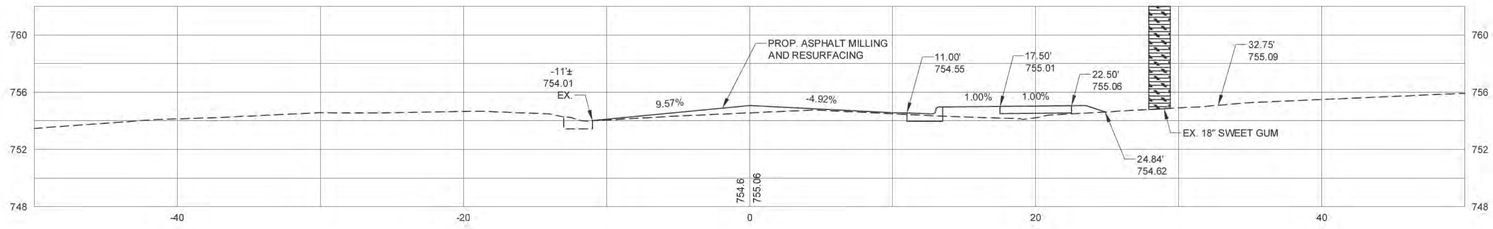
34+00.92 DRIVEWAY CL



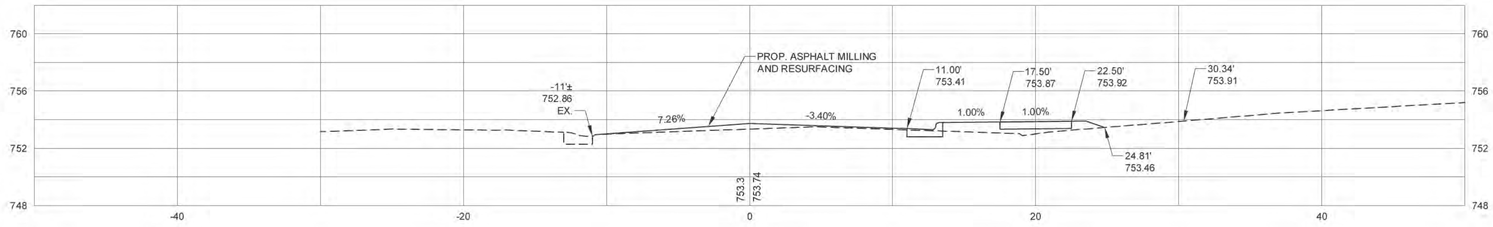
34+00



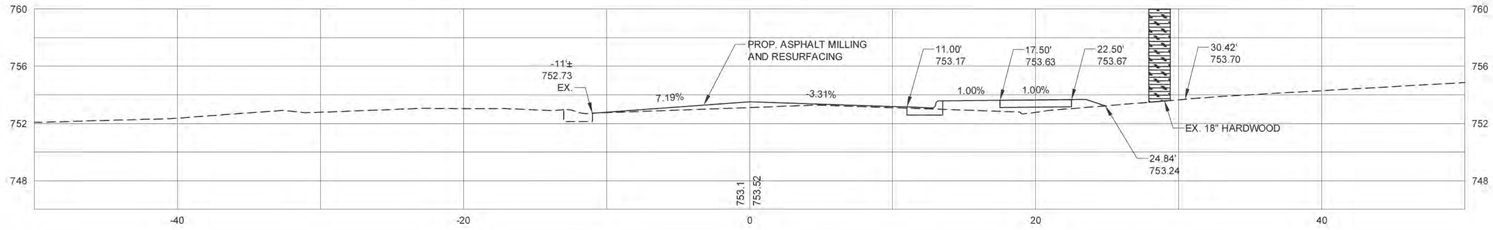
33+89.53 TREE



33+50



33+43.46 TREE



SHEET X13 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT DWIGHTWARE BLVD L-1 CROSS SECTIONS	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
		BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

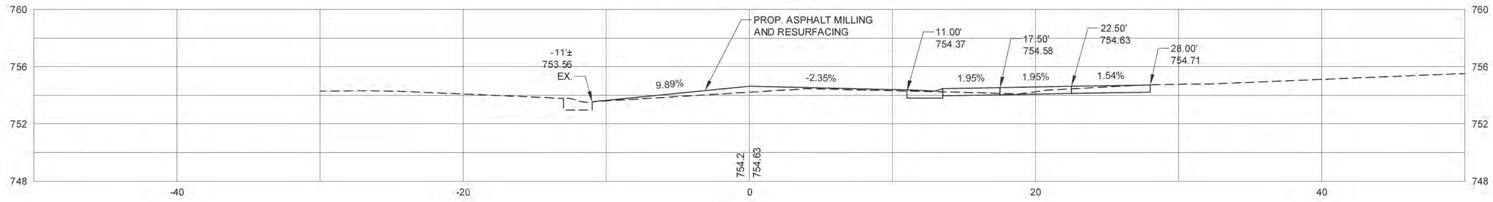
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

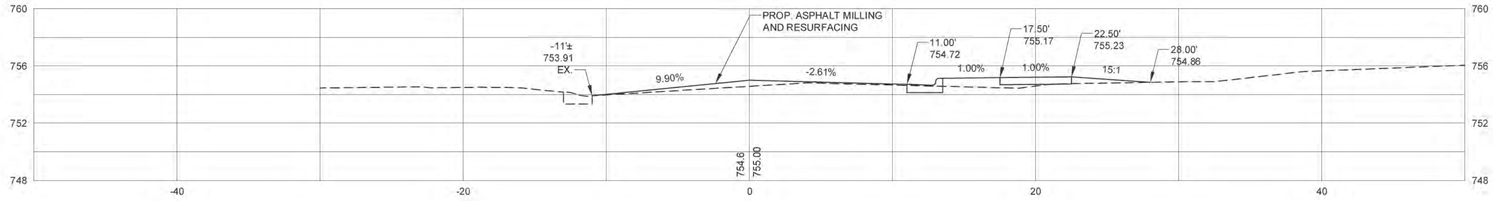
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

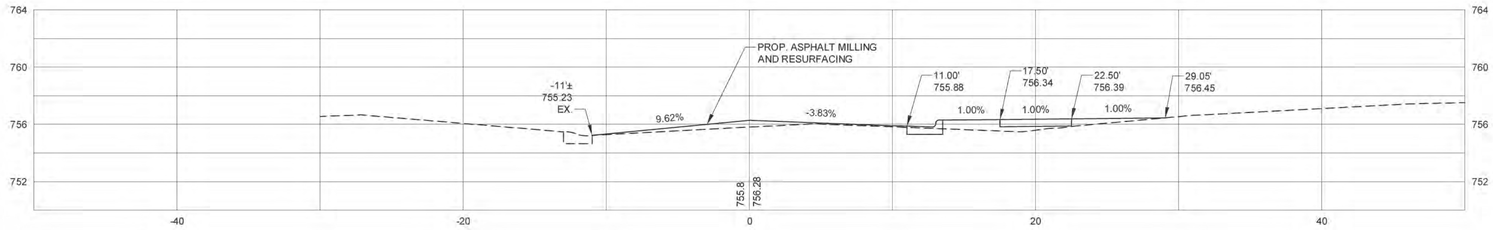
36+11.43 DRIVEWAY CL



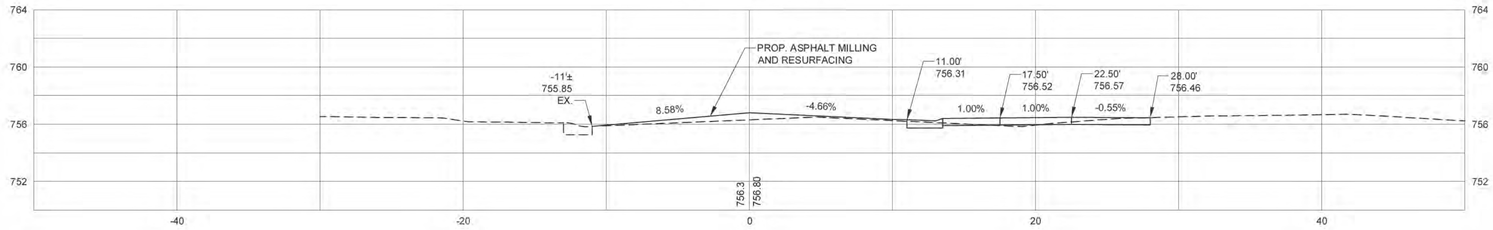
36+00



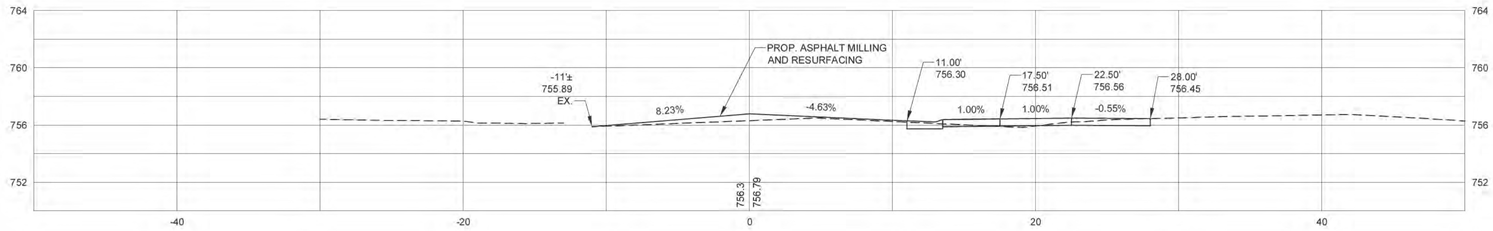
35+50



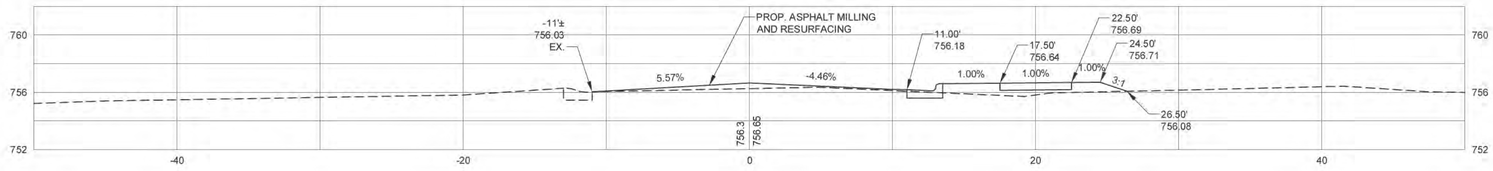
35+03.36 DRIVEWAY CL



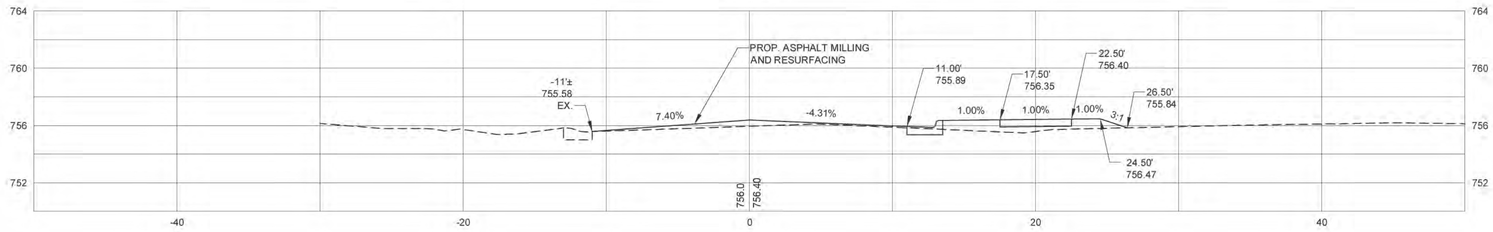
35+00



34+72.48 L-1 PC



34+50



SHEET X14 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

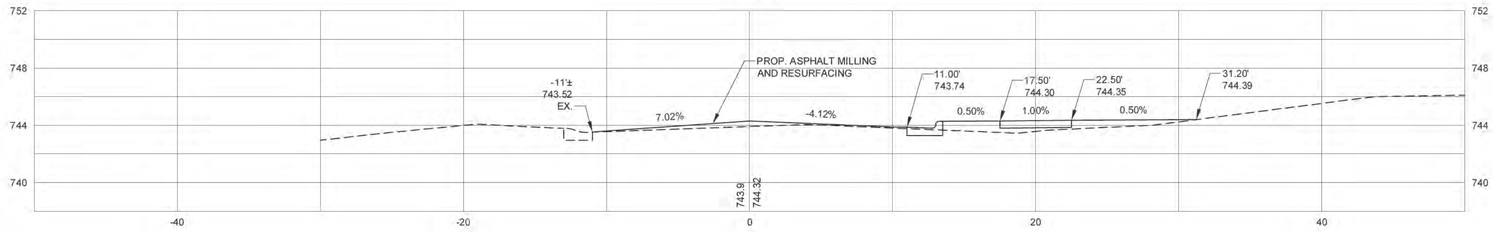
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

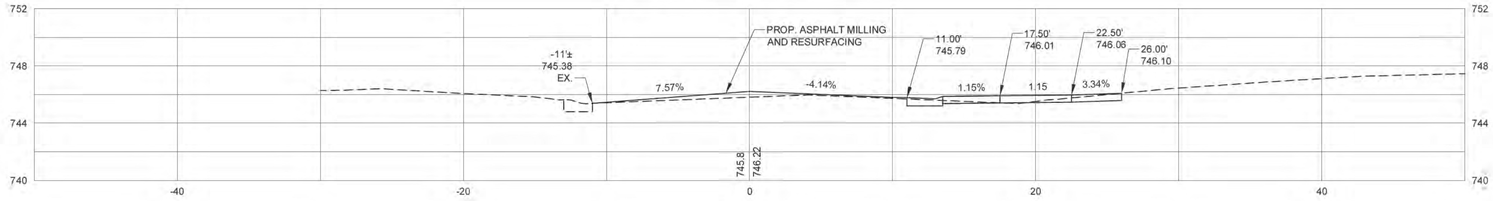
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

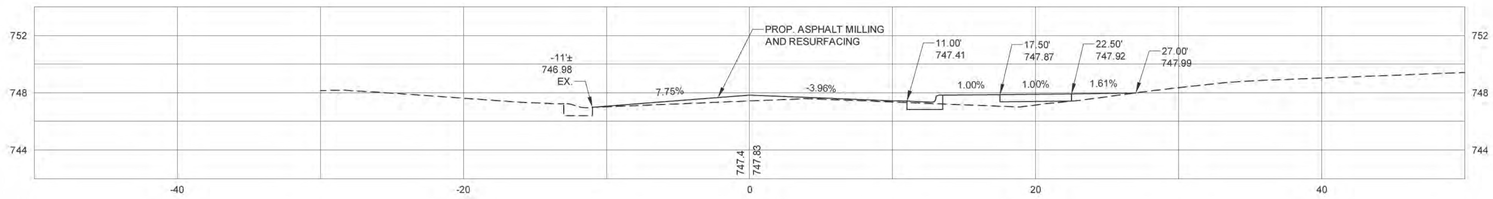
38+00



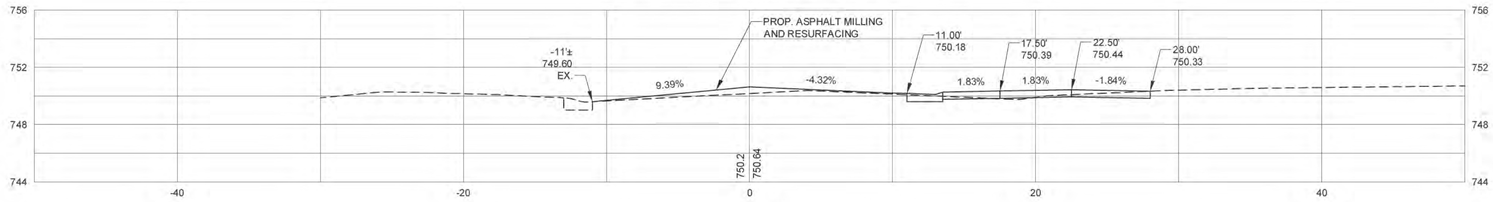
37+74.10 DRIVEWAY CL



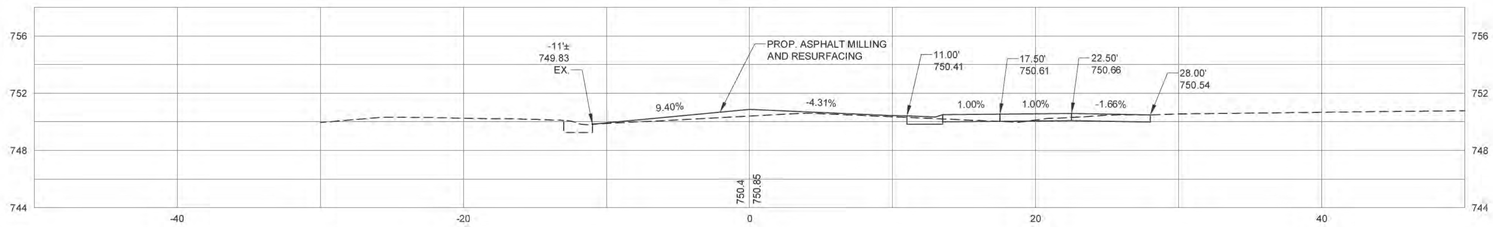
37+50



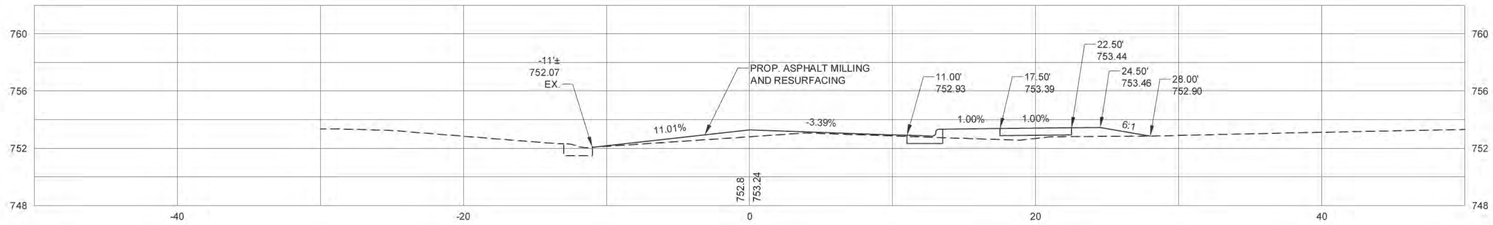
37+04.00 DRIVEWAY CL



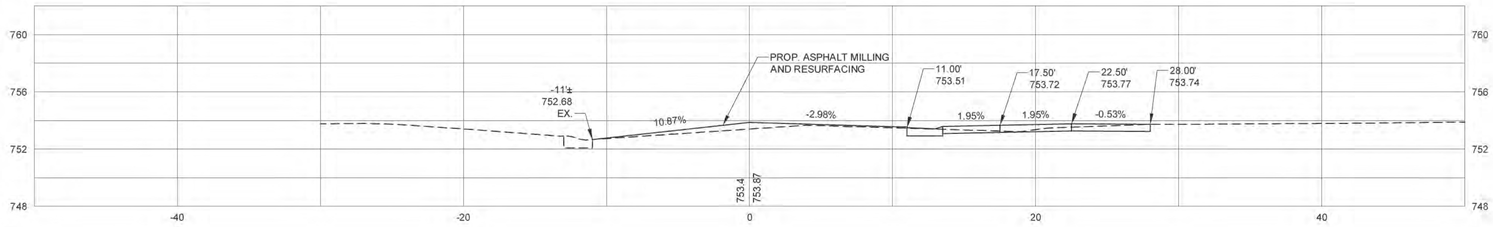
37+00



36+50

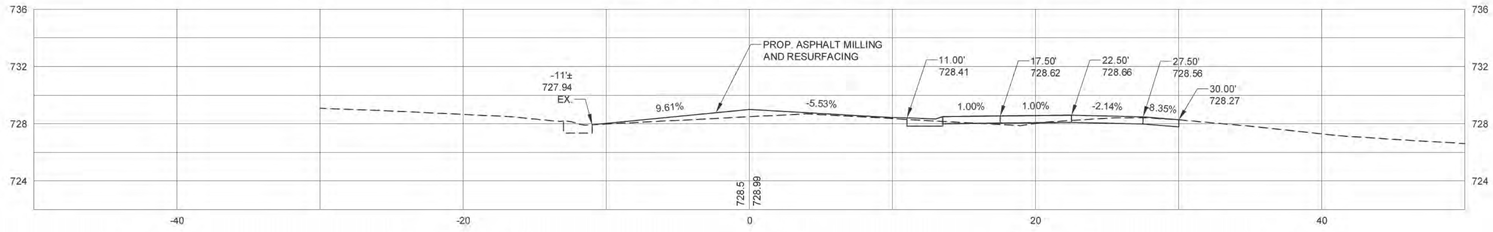


36+34.73 DRIVEWAY CL

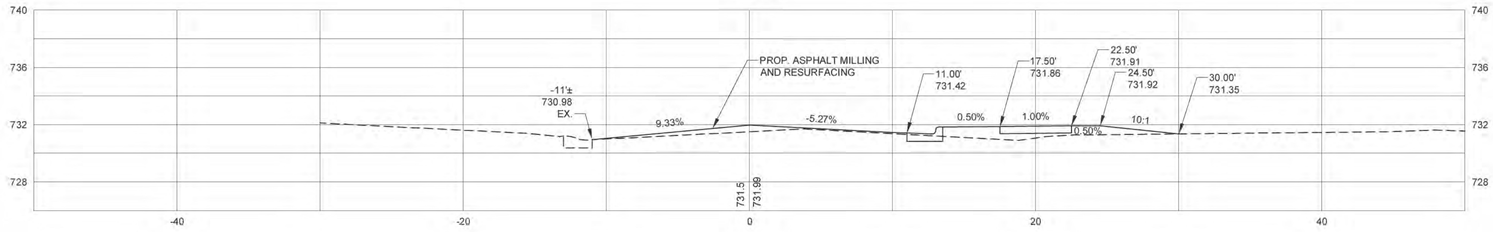


SHEET X15 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE		NO.	DATE	BY	DESCRIPTION	Plans Prepared By:
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH							USI INFRASTRUCTURE OF CAROLINA, INC. 1043 E. MOREHEAD STREET, SUITE 203 CHARLOTTE, NORTH CAROLINA 28204 NC LICENSE # C-1950
		BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY						CHARLOTTE.
		SH APPROVED BY	9-30-13 DATE						

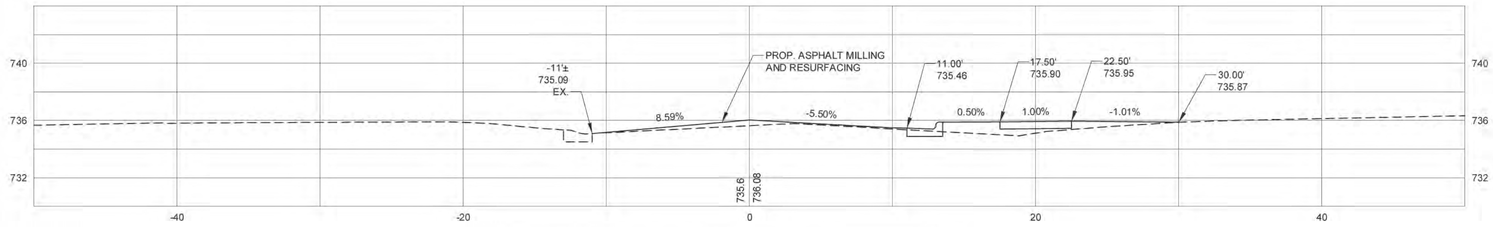
39+88.42 DRIVEWAY CL



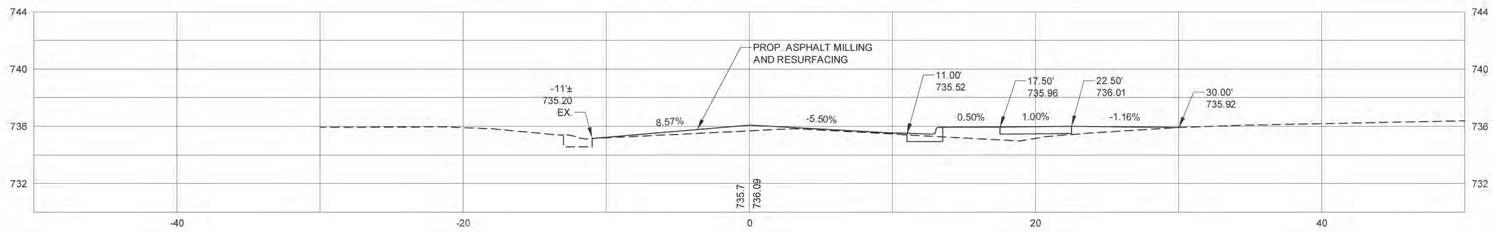
39+50



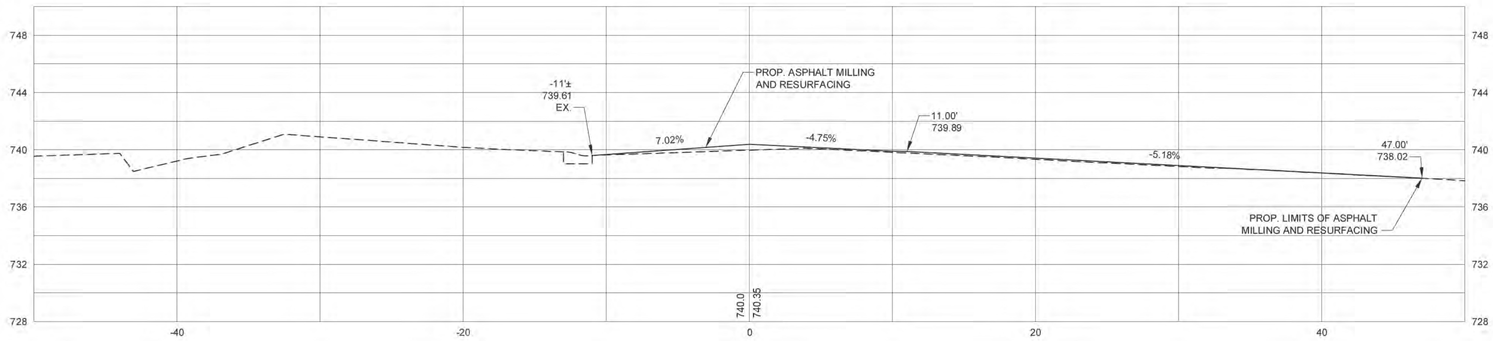
39+00



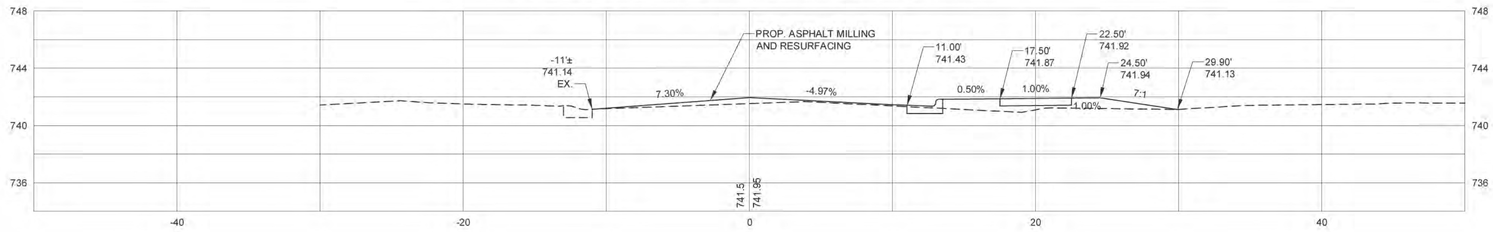
38+99.37 HEMSWORTH TERRANCE SW CR - PT



38+50



38+30.93 - HEMSWORTH TERRANCE NW CR - PC



SHEET X16 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

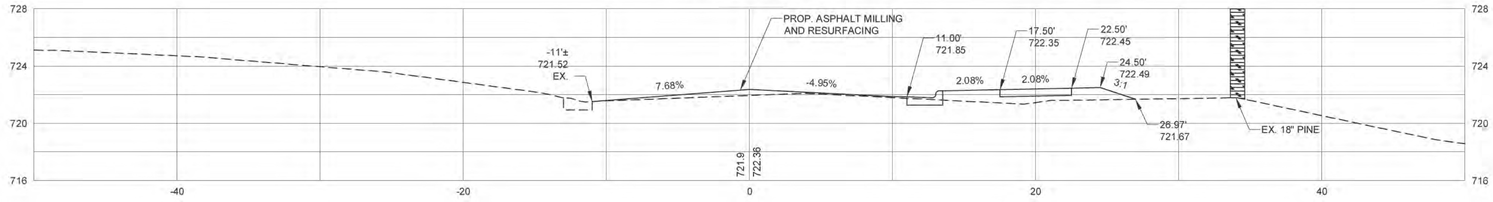
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

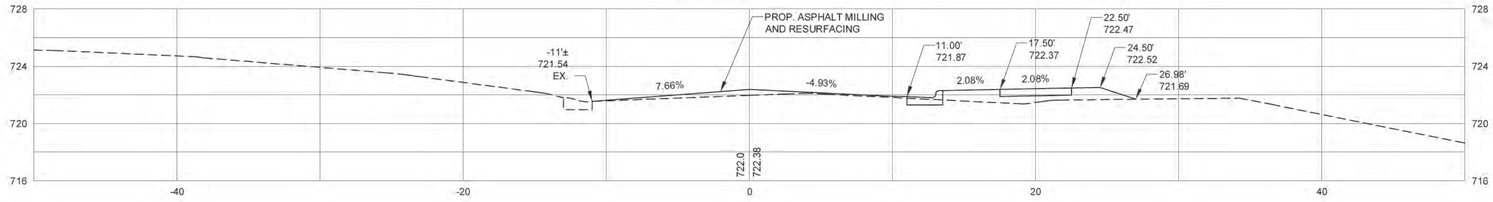
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

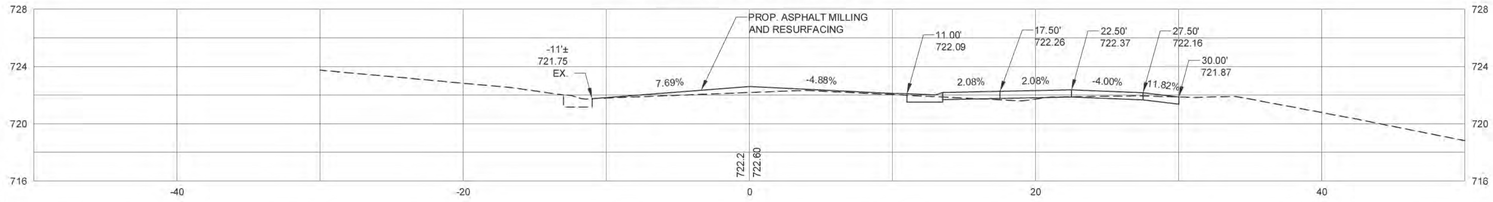
41+39.23 TREE



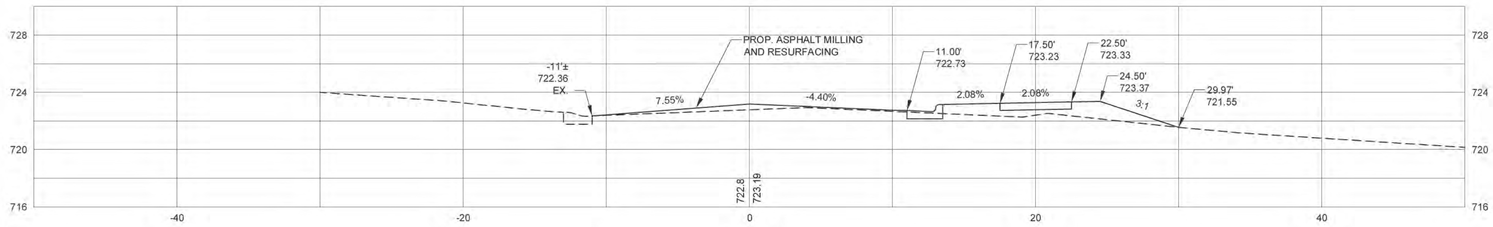
41+37.67 L-1 PT



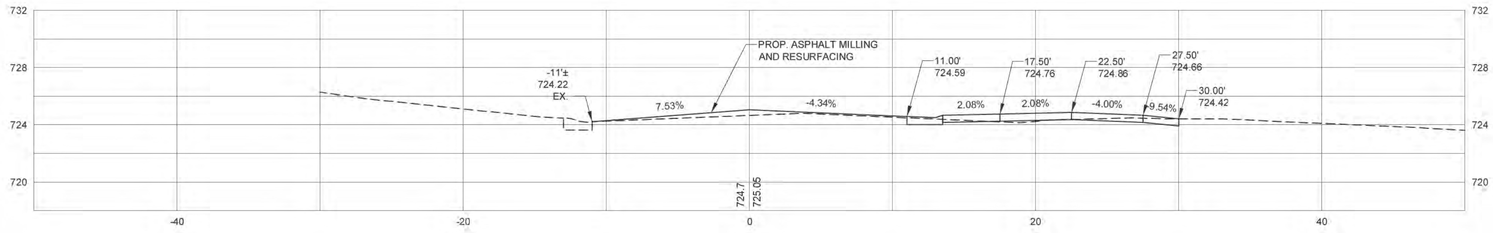
41+27.32 DRIVEWAY CL



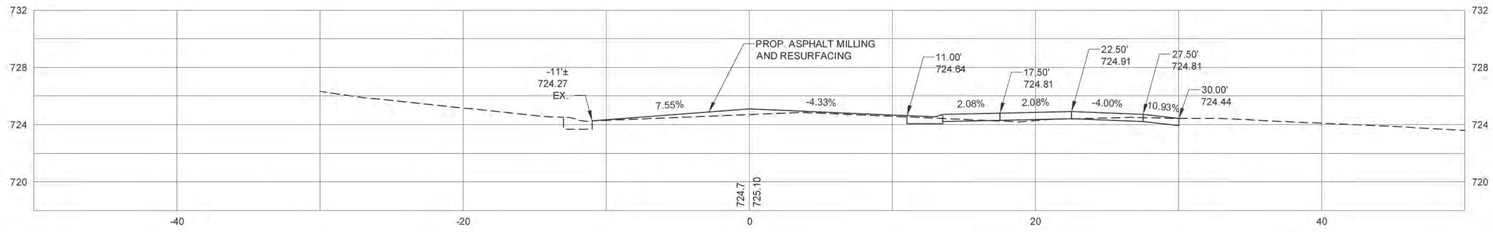
41+00



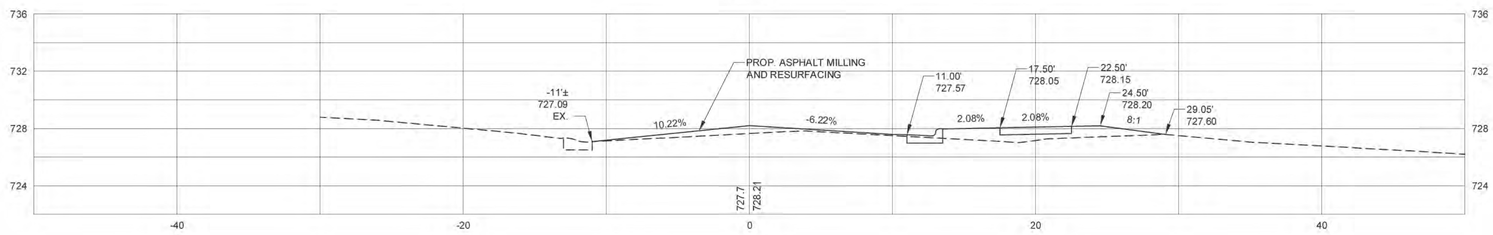
40+50



40+49.01 DRIVEWAY CL



40+00



SHEET X17 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

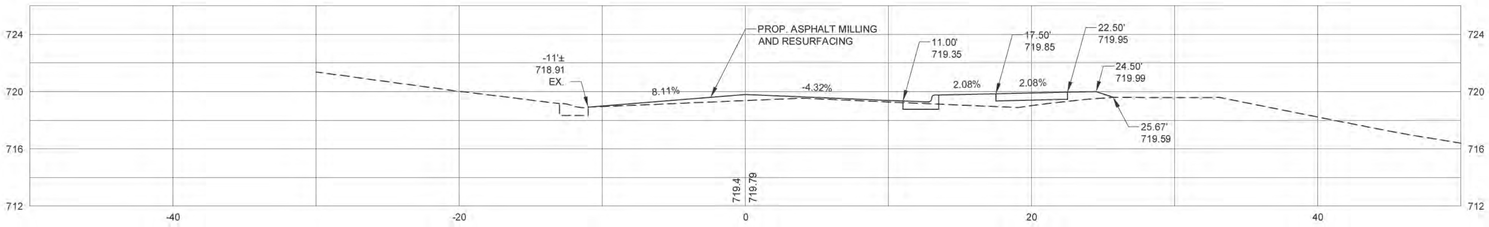
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

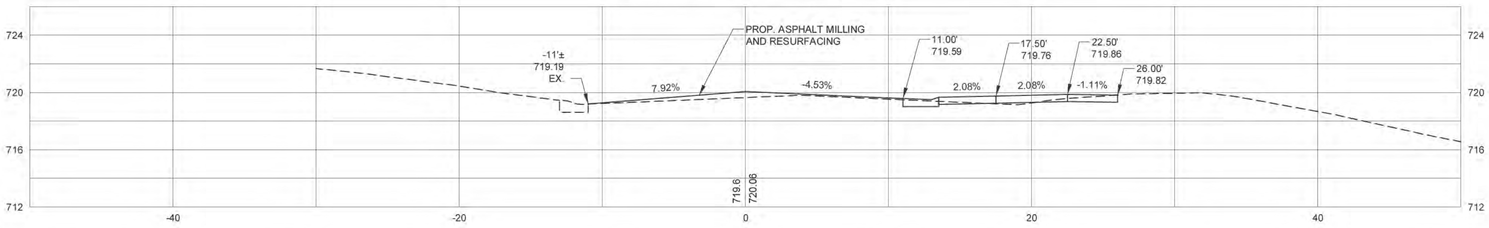
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

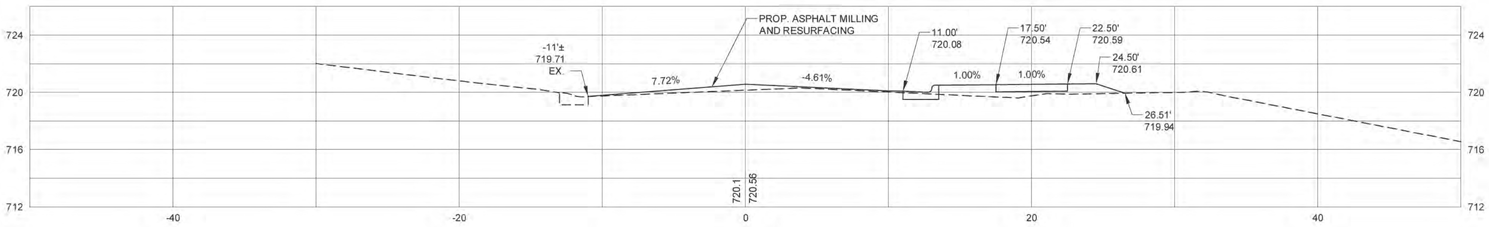
43+00



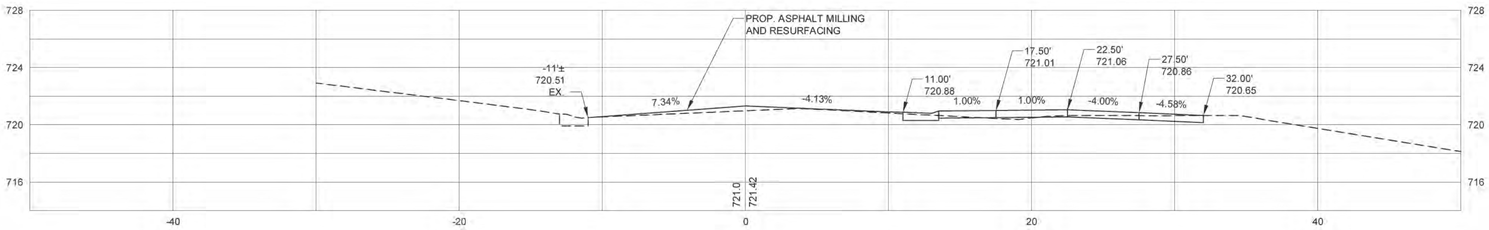
42+82.38 DRIVEWAY CL



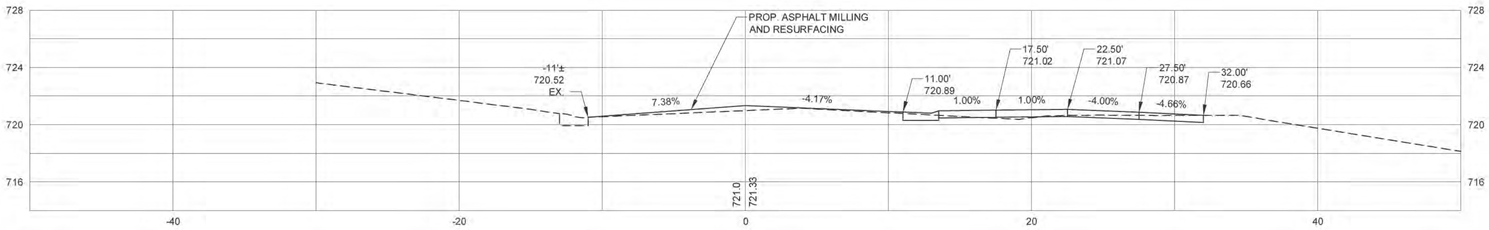
42+50



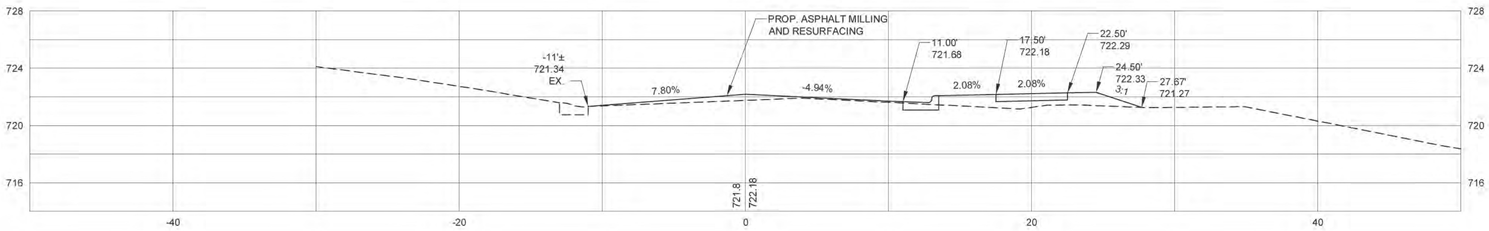
42+00.46 DRIVEWAY CL



42+00



41+50



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
X18		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH	
OF	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
X34		SH APPROVED BY	9-30-13 DATE

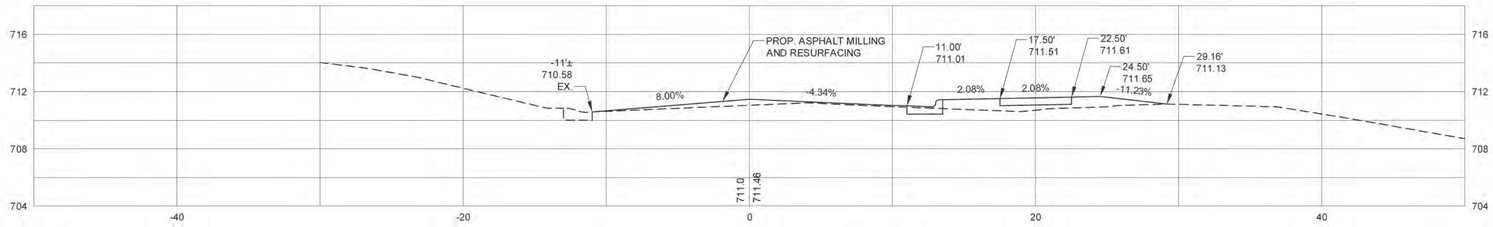
NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

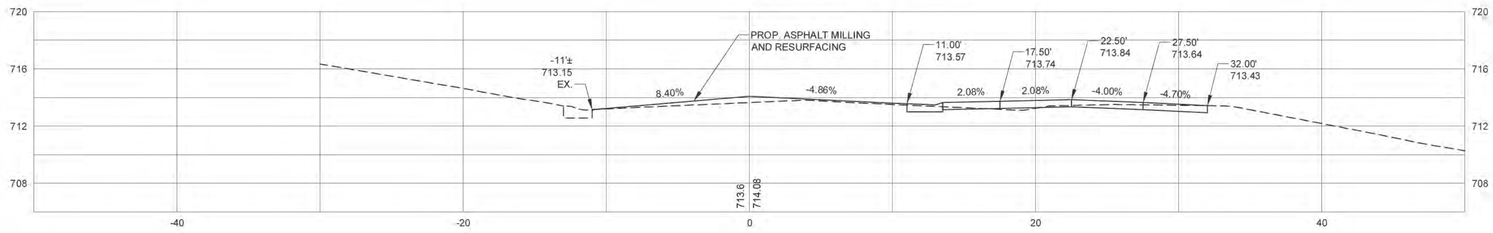
USI INFRASTRUCTURE OF CAROLINA, INC.
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

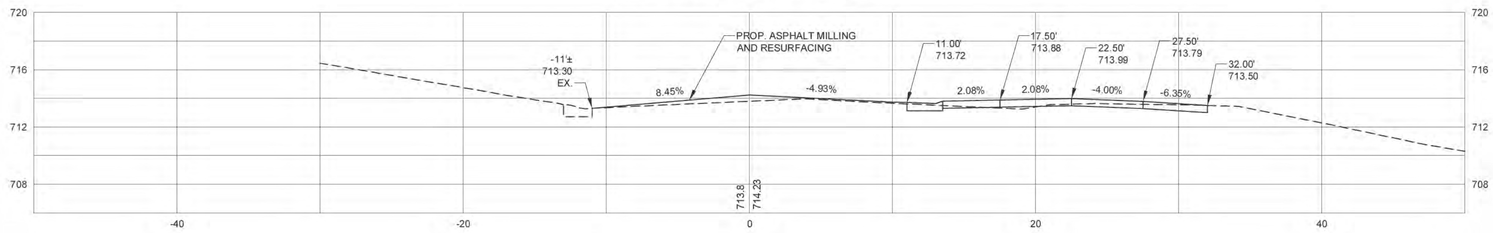
45+00



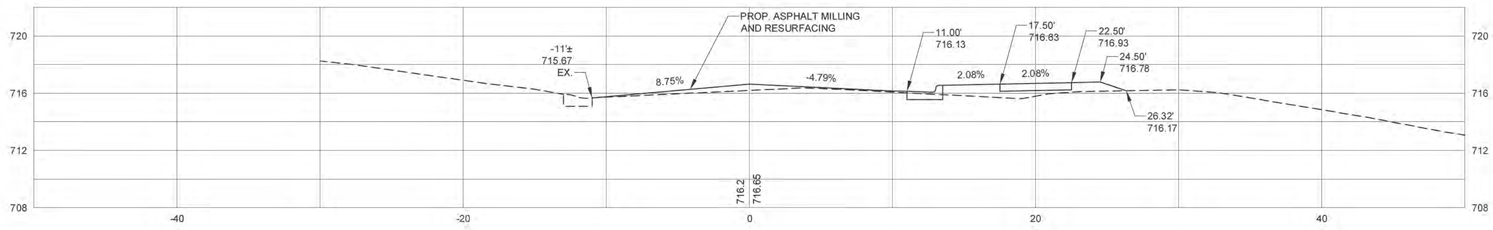
44+50



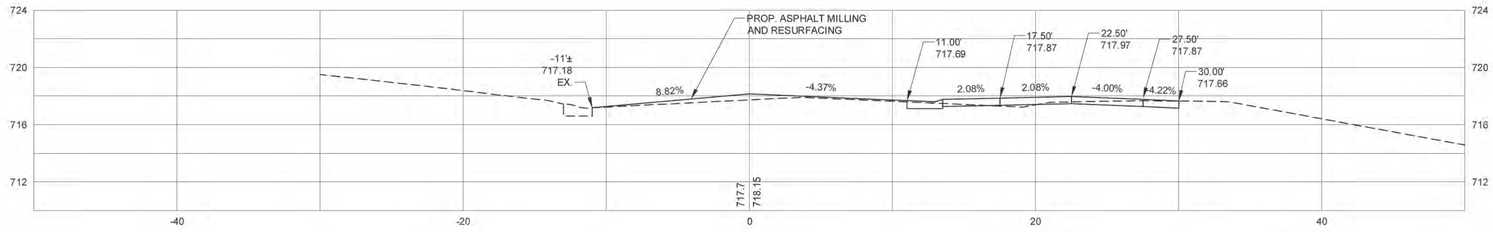
44+47.19 DRIVEWAY CL



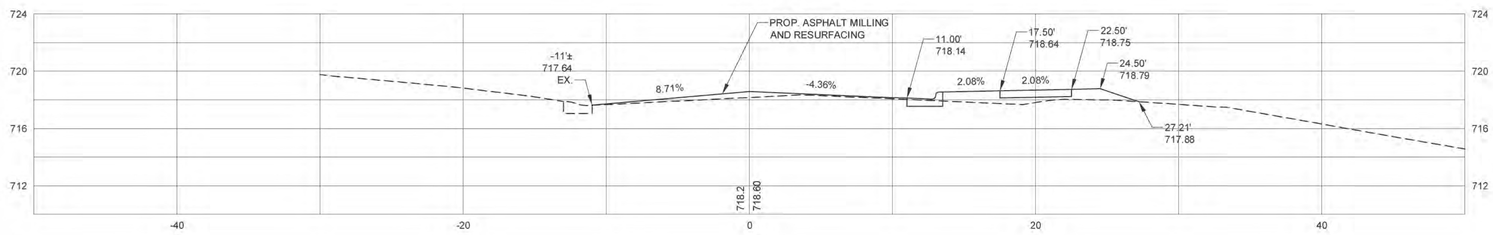
44+00



43+62.95 DRIVEWAY CL



43+50



SHEET X19 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
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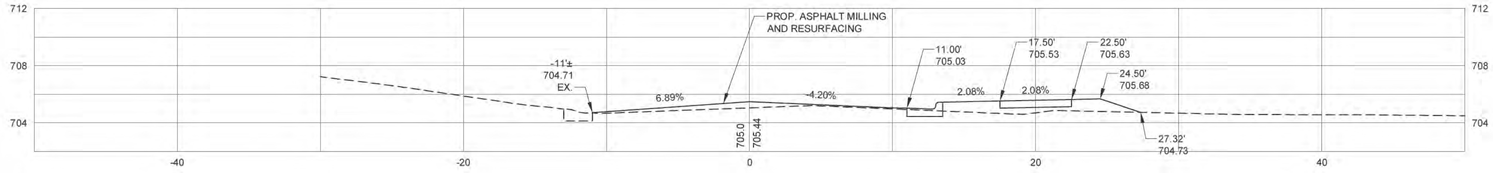
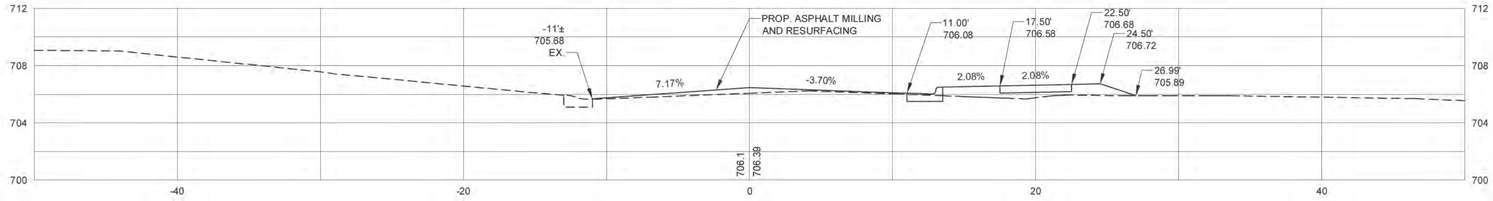
NC LICENSE # C-1950

CHARLOTTE.

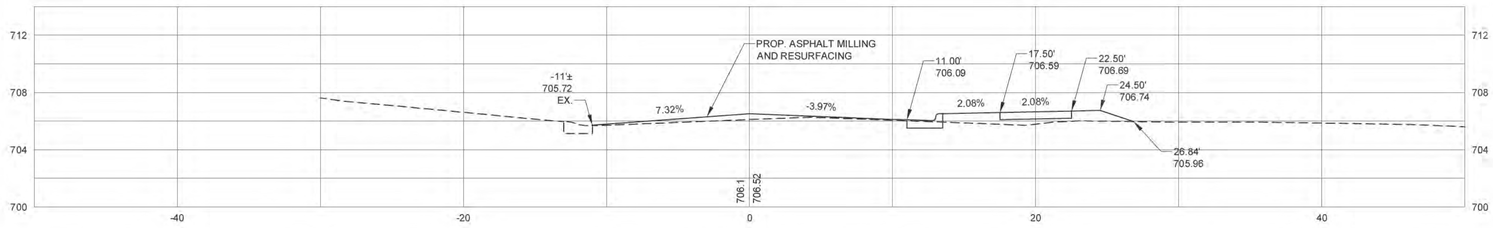
47+00



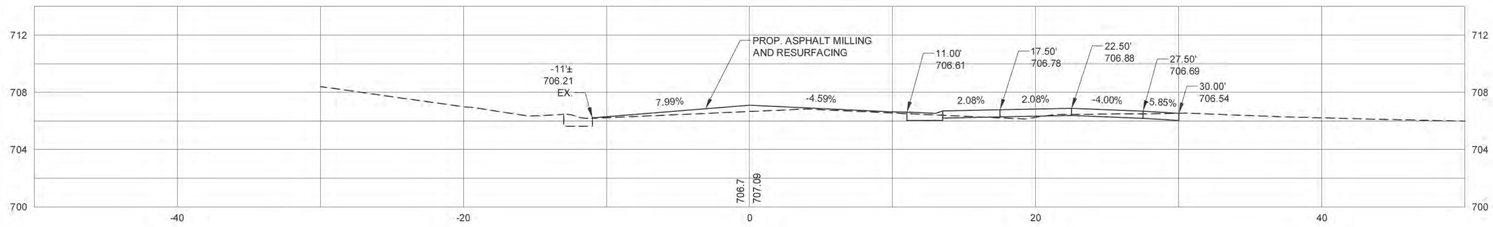
46+51.61 L-1 PC



46+50



46+26.39 DRIVEWAY CL



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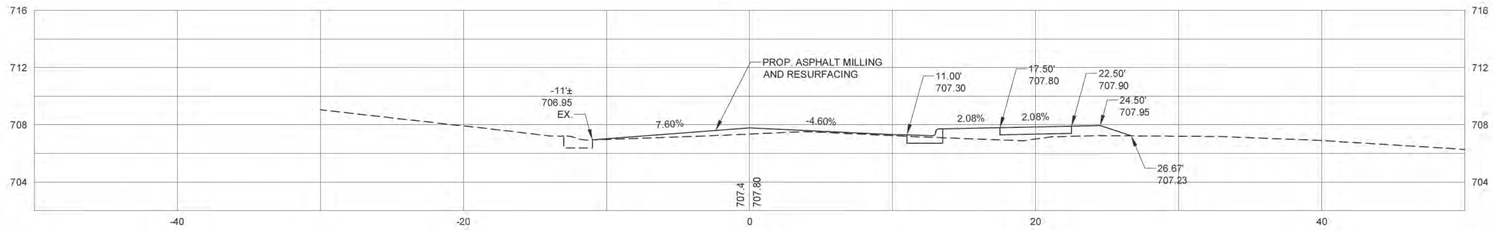
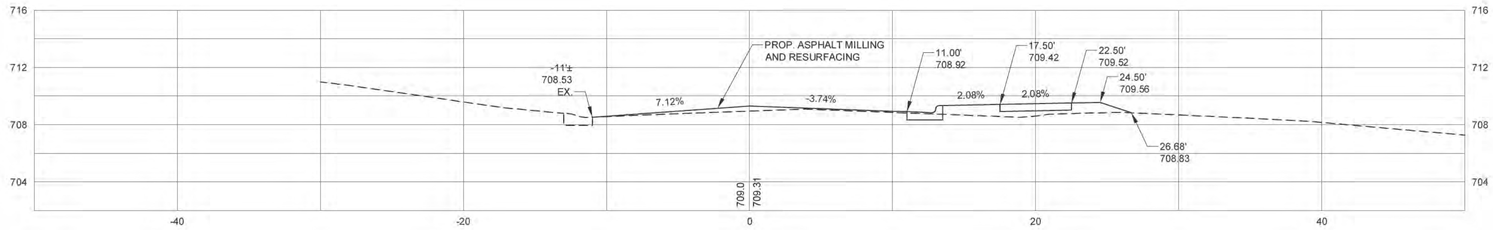
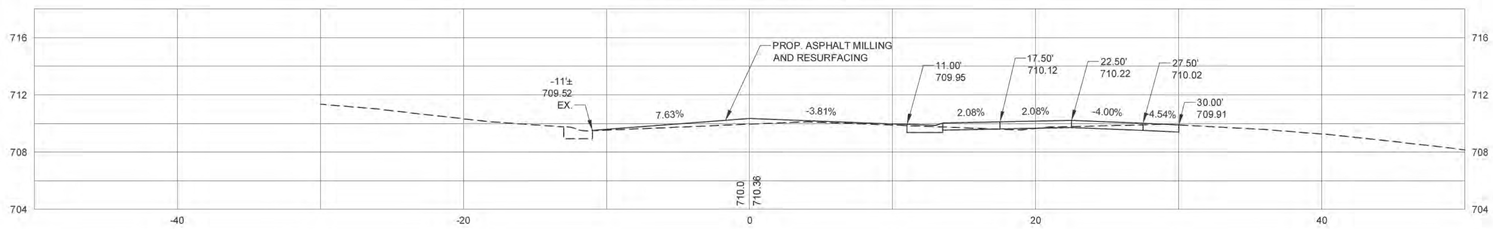


45+50



45+22.19 DRIVEWAY CL



SHEET X20 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH	
	DWIGHTWARE BLVD L-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
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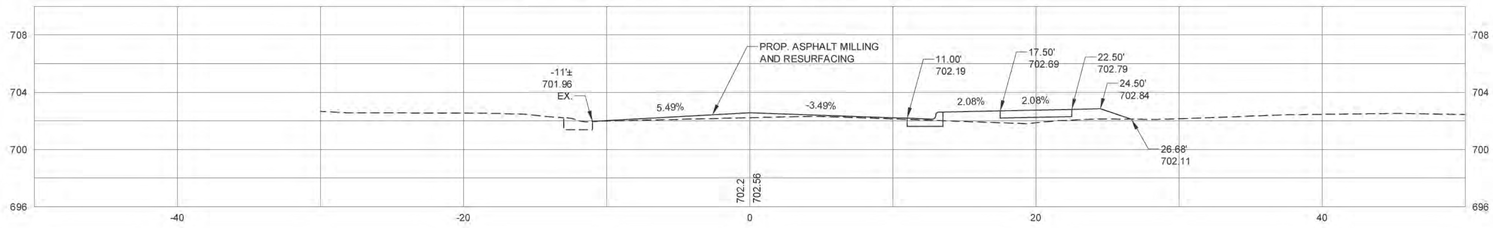
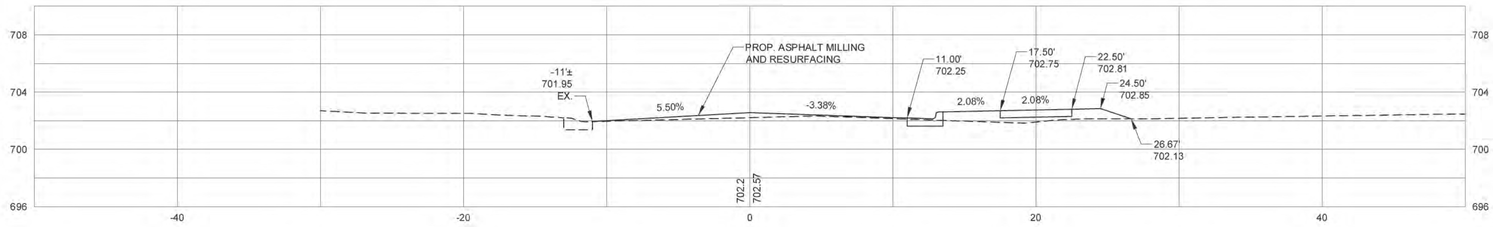
CHARLOTTE.

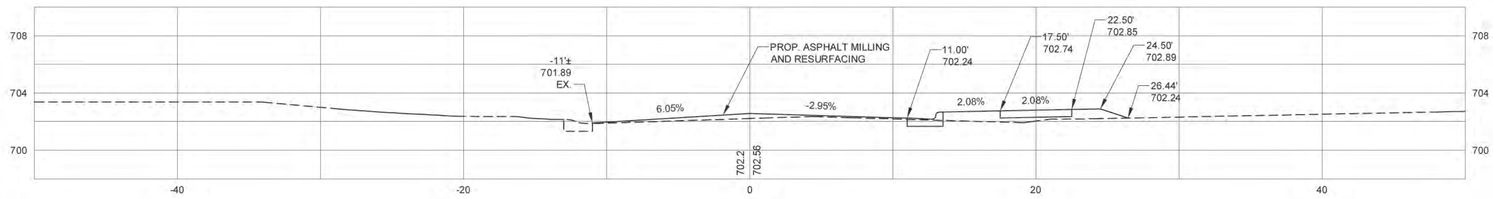
48+51.93 OLD MEADOW ROAD Y-2 NW CR - PC



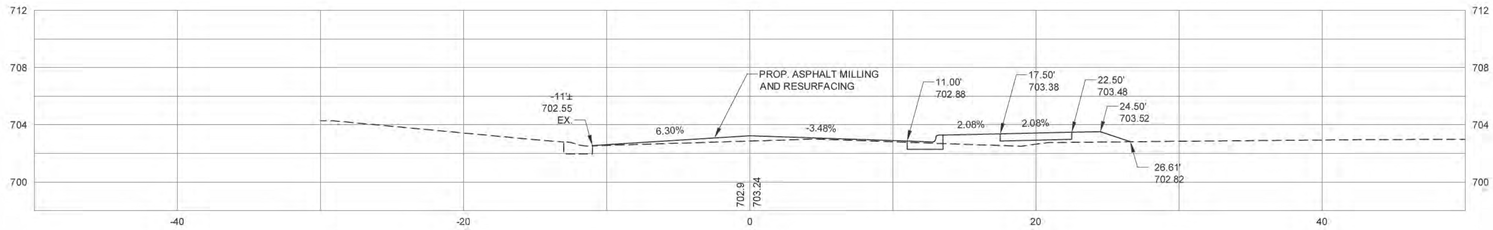
48+50



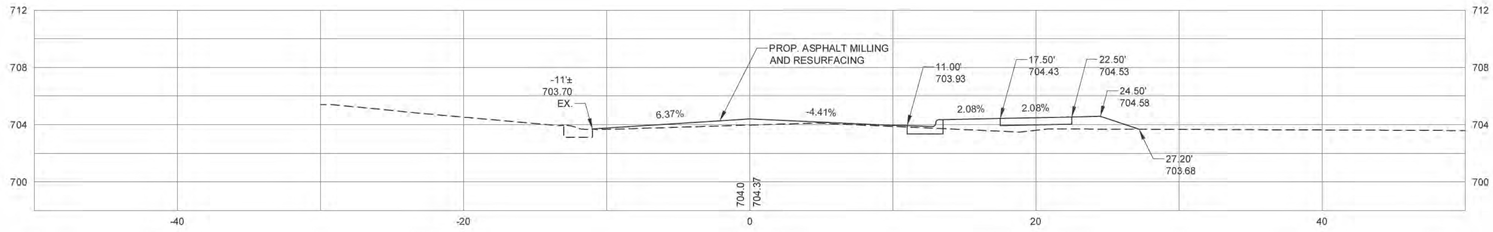
48+40.62 L-1 PT



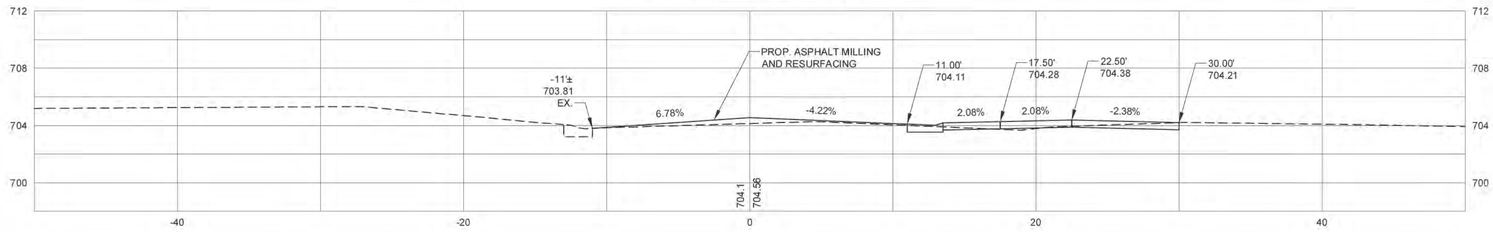
48+00



47+50



47+41.11 DRIVEWAY CL



SHEET X21 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT DWIGHTWARE BLVD L-1 CROSS SECTIONS	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
		BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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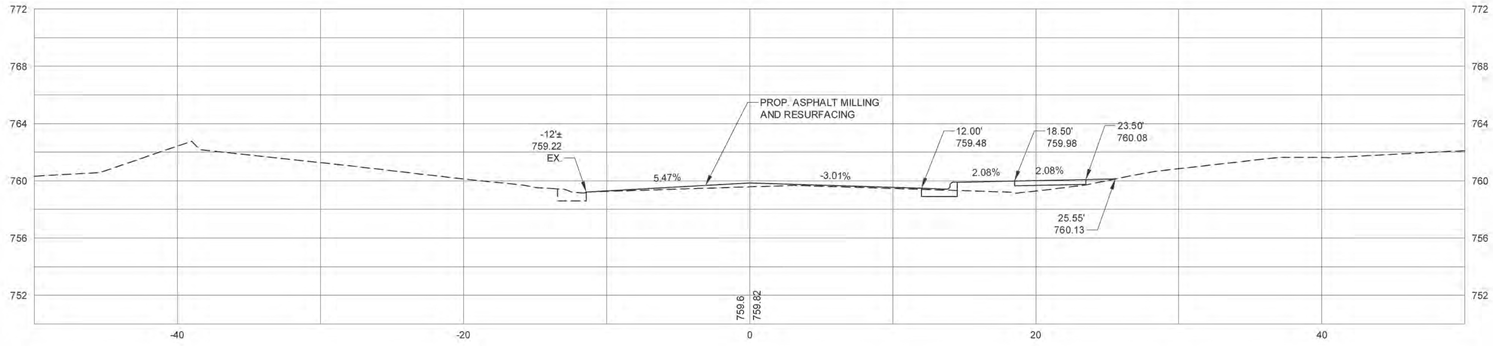
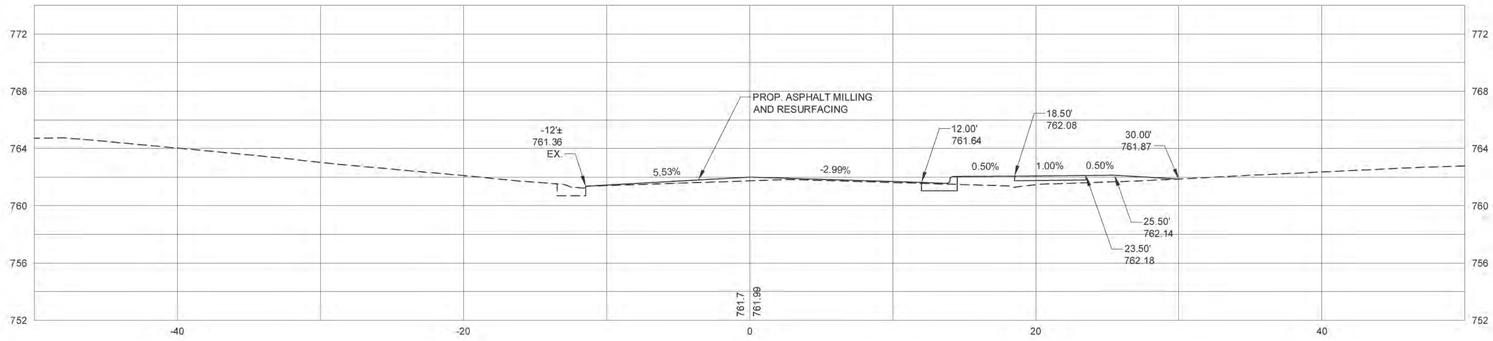
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

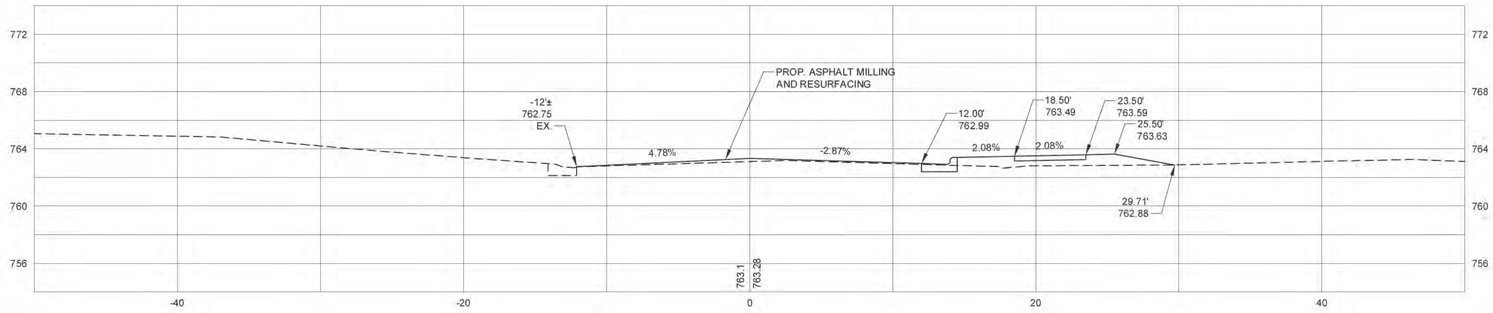
11+50



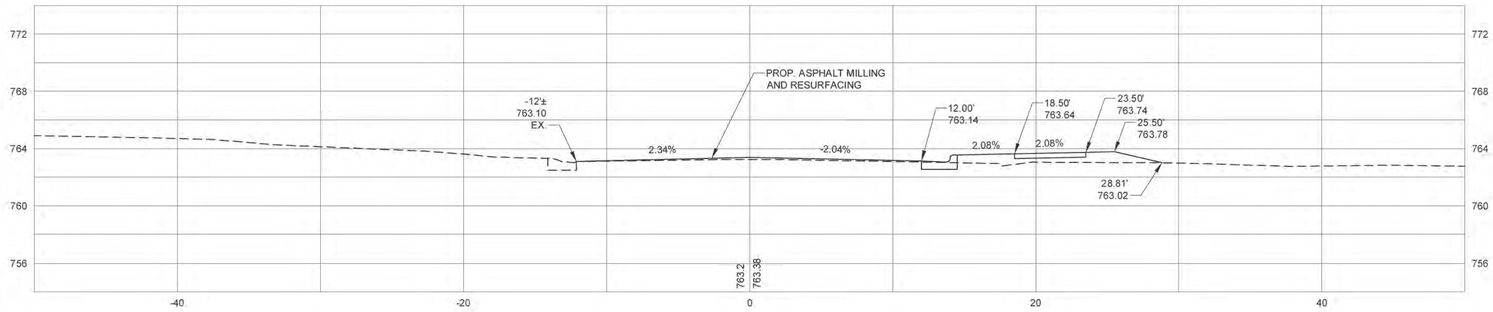
11+00



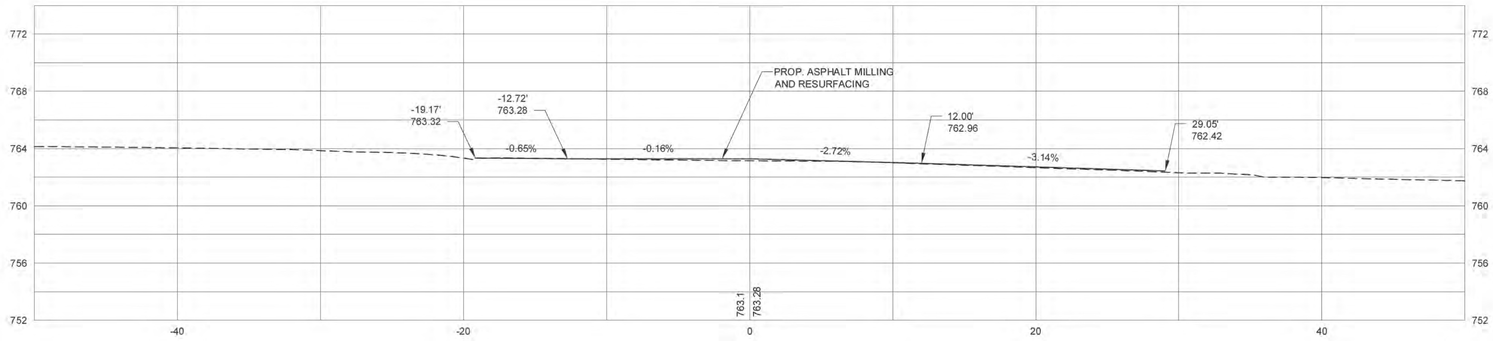
10+50



10+35.06 SHACKLEFORD TERRACE Y-1 SE CR-PT



10+13 Y-1 PC



SHEET X22 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE		NO.	DATE	BY	DESCRIPTION
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH						
	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY					
		SH APPROVED BY	9-30-13 DATE					

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CHARLOTTE, NORTH CAROLINA 28204
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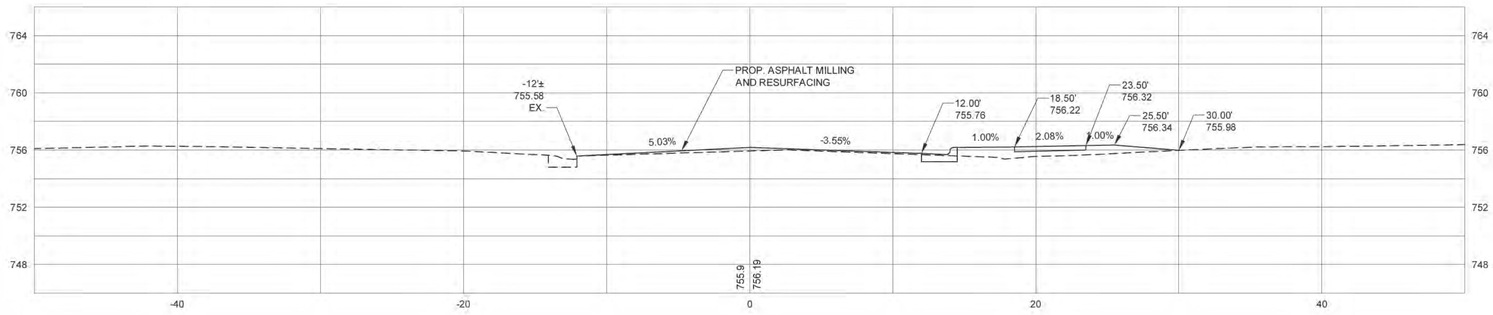
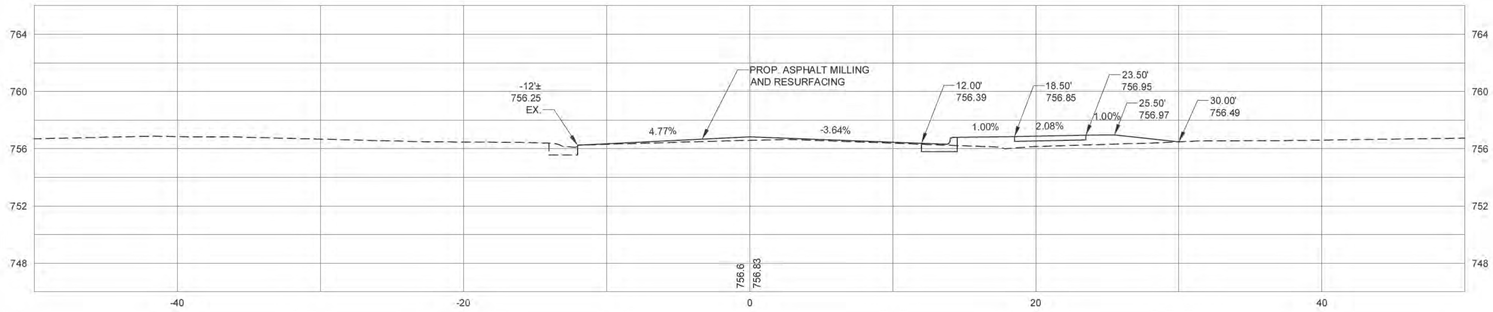
CHARLOTTE.

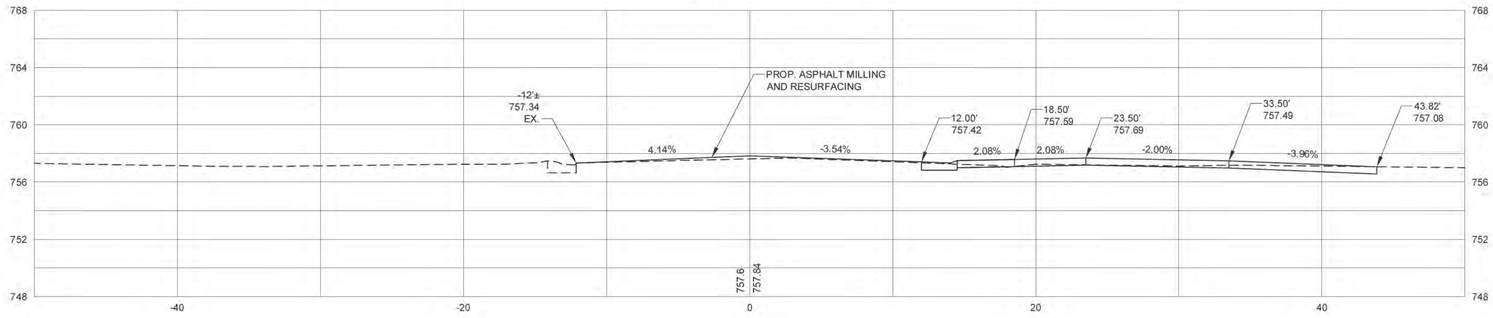
12+09.61 Y-1 PT



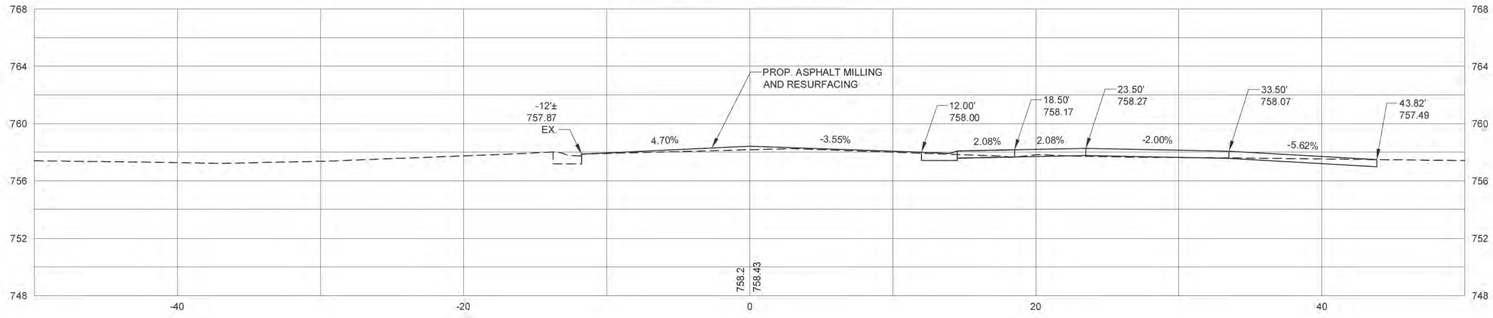
12+00



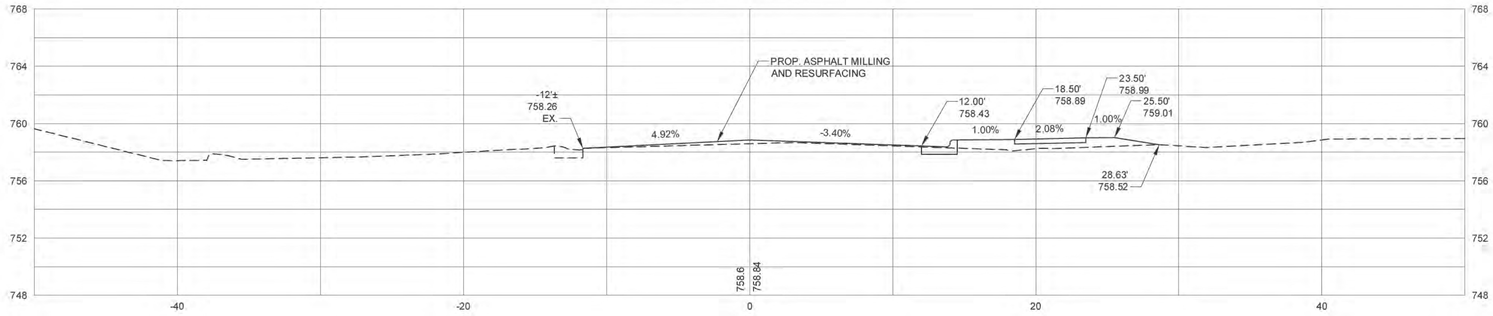
11+84.51 DRIVEWAY CL



11+74.78 DRIVEWAY EDGE



11+67.60 HILL SLOPE



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
X23		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH	
OF	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
X34		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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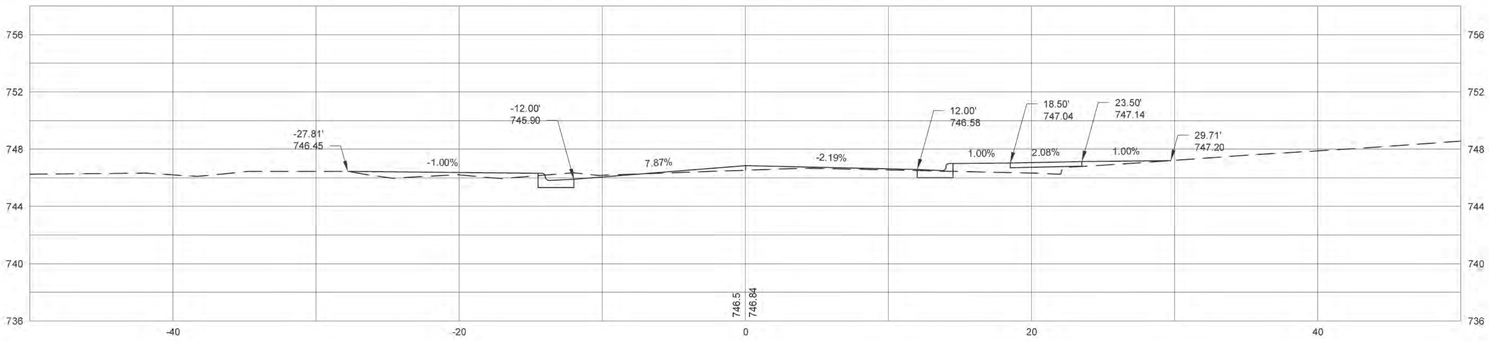
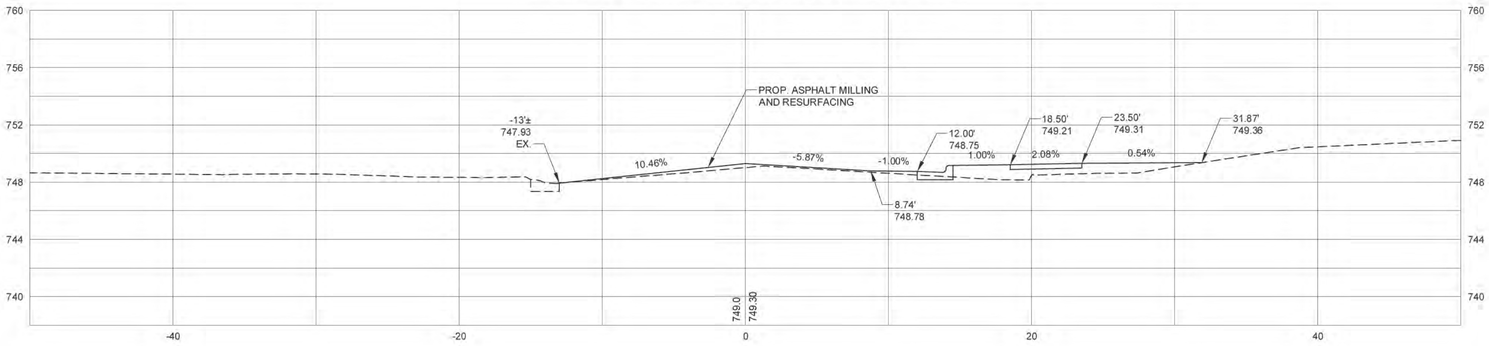
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

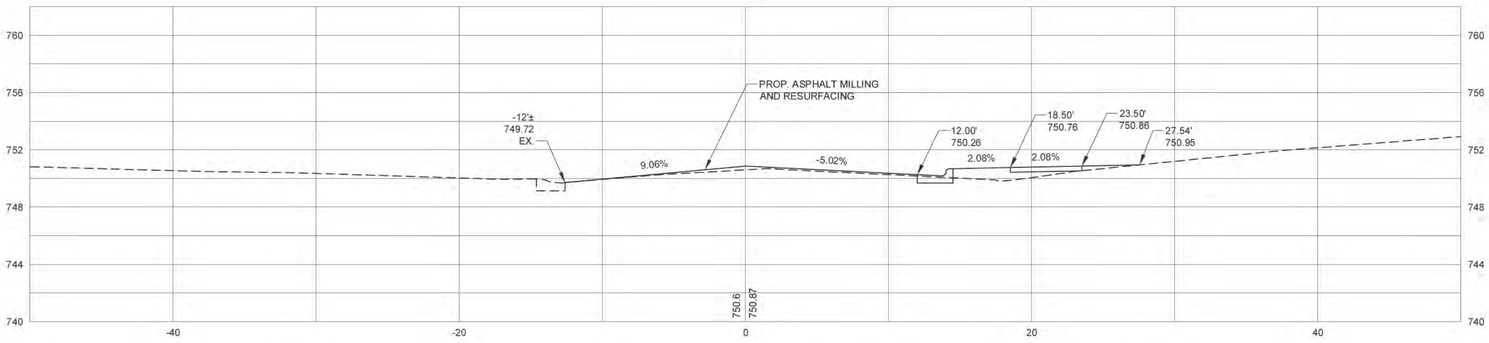
14+15.50 HARRISBURG ROAD L-2 NE CR-PT



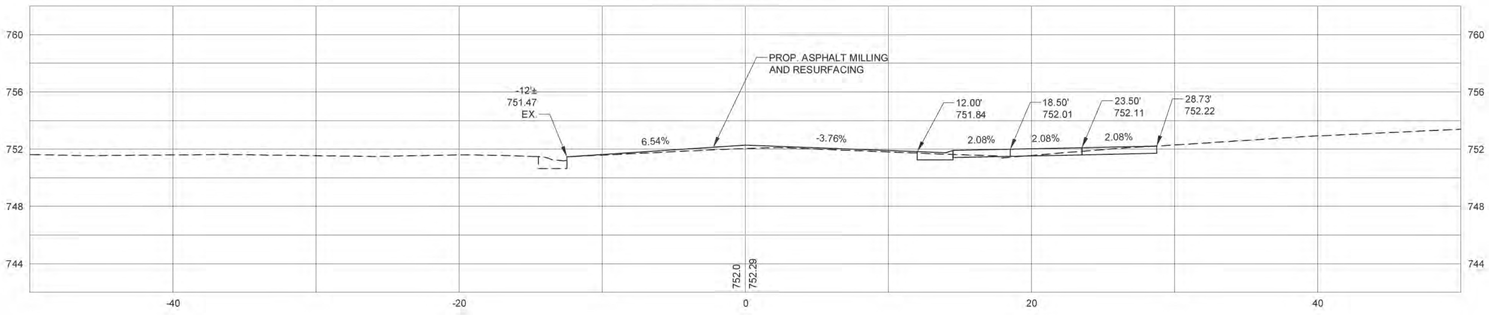
13+45.01 HARRISBURG ROAD L-2 SW CR-PC



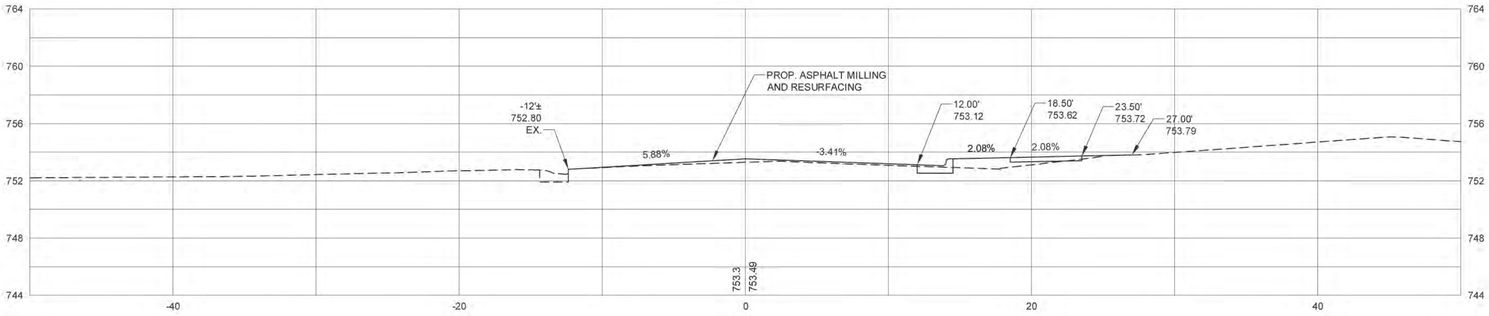
13+00



12+69.69 DRIVEWAY CL



12+50



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
X24		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
OF	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
X34		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

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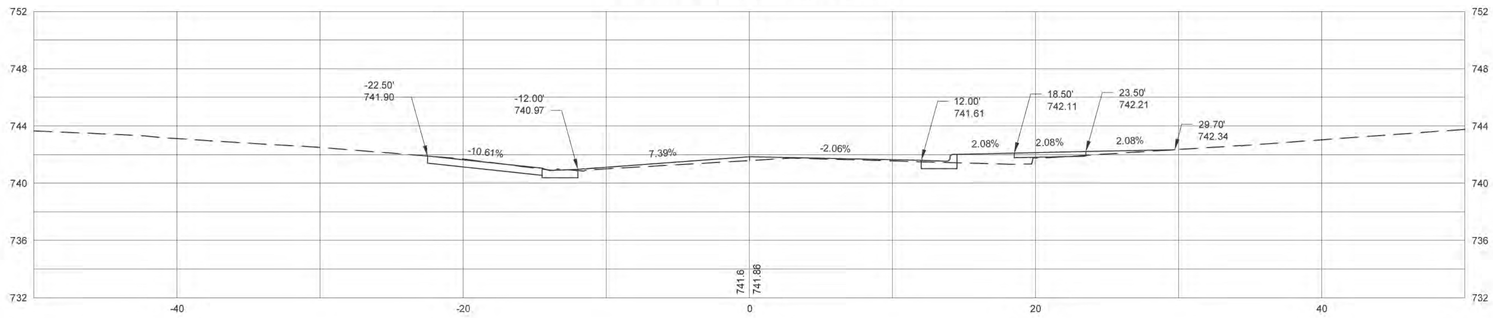
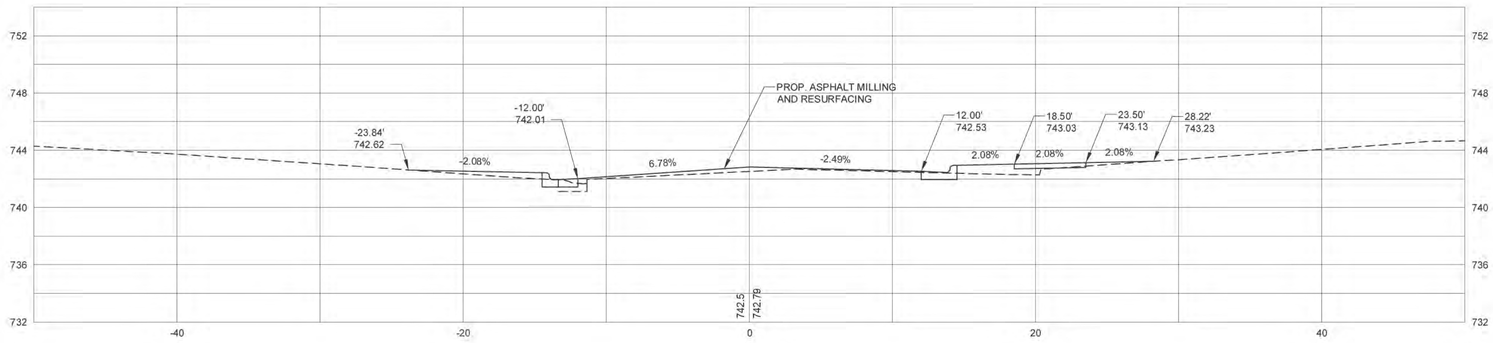
CHARLOTTE.

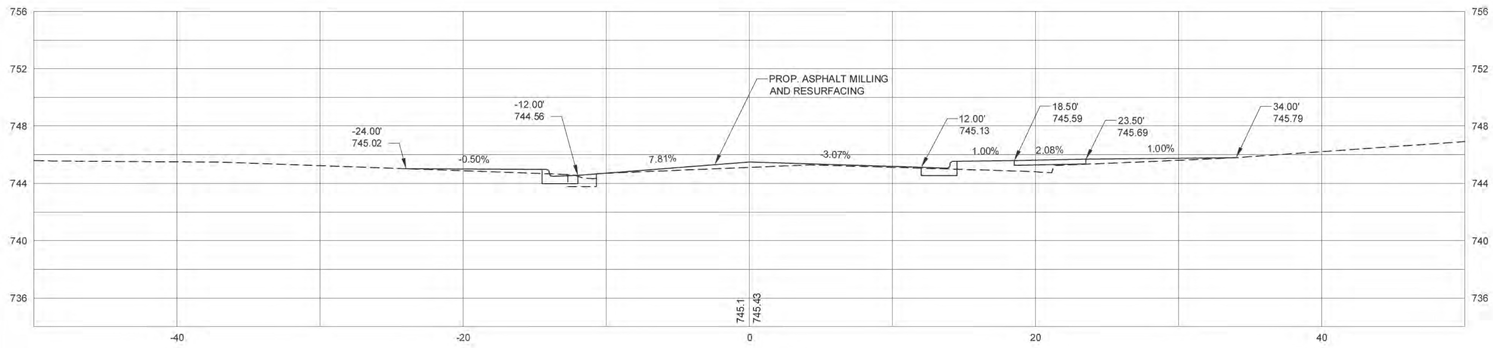
15+18.48 DRIVEWAY (LEFT) CL



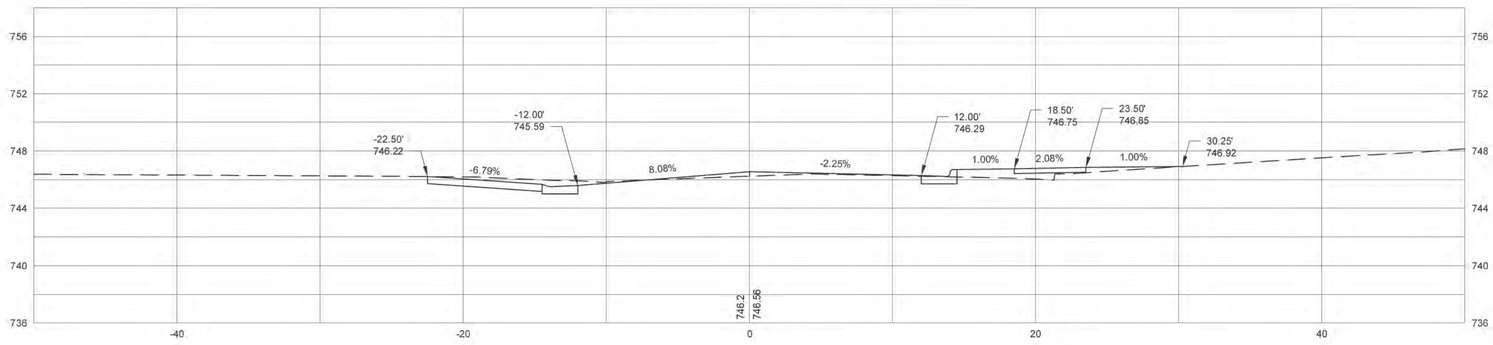
15+00



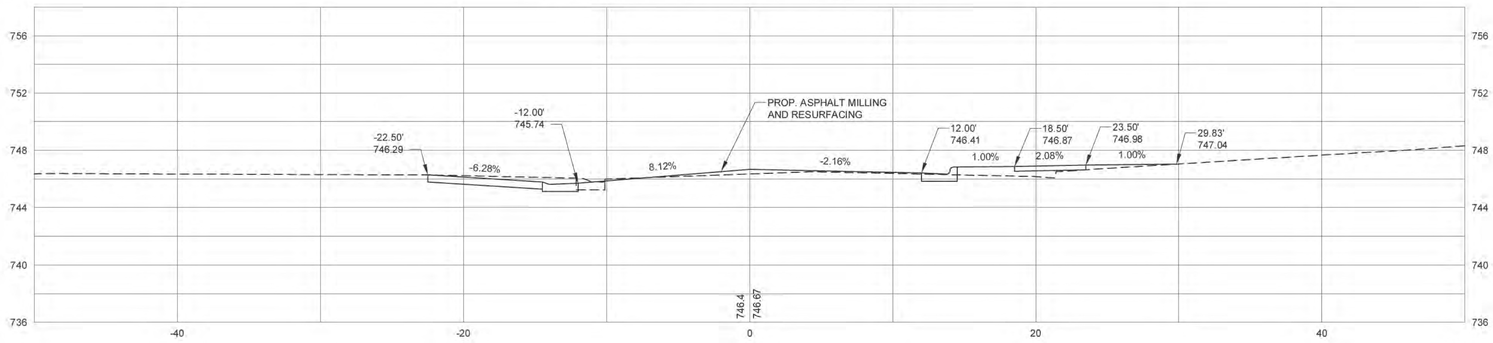
14+50



14+24.30 DRIVEWAY (LEFT) CL



14+20.03 HARRISBURG ROAD L-2 SE CR-PT



SHEET X25 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WR2012plots CAD FILE PATH	
	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NORTH CAROLINA PROFESSIONAL SEAL 5270 ENGINEER

NO.	DATE	BY	DESCRIPTION

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CHARLOTTE, NORTH CAROLINA 28204
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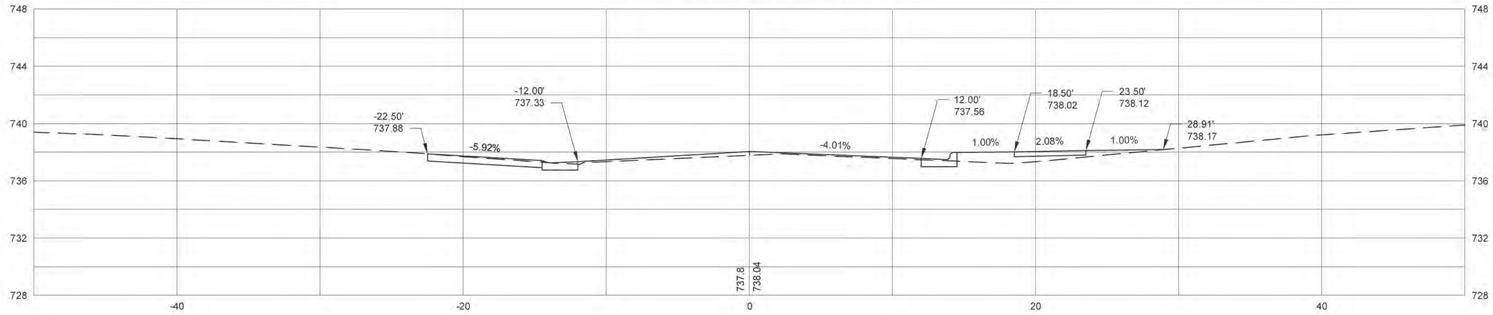
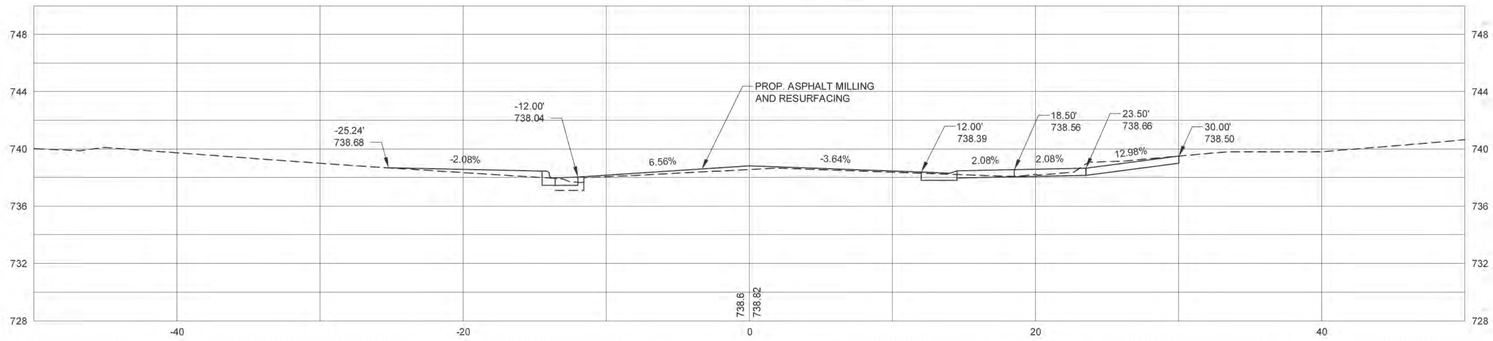
CHARLOTTE.

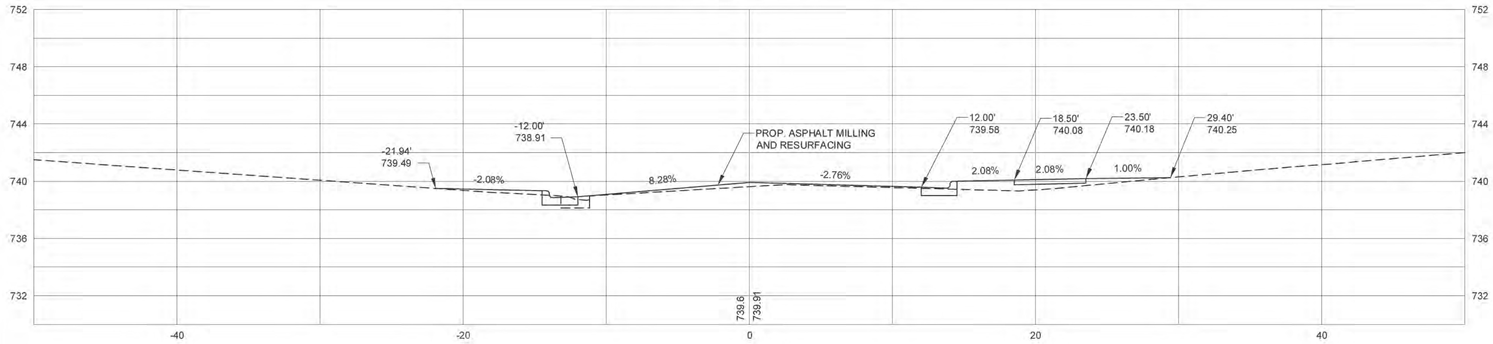
15+99.04 DRIVEWAY (LEFT) CL



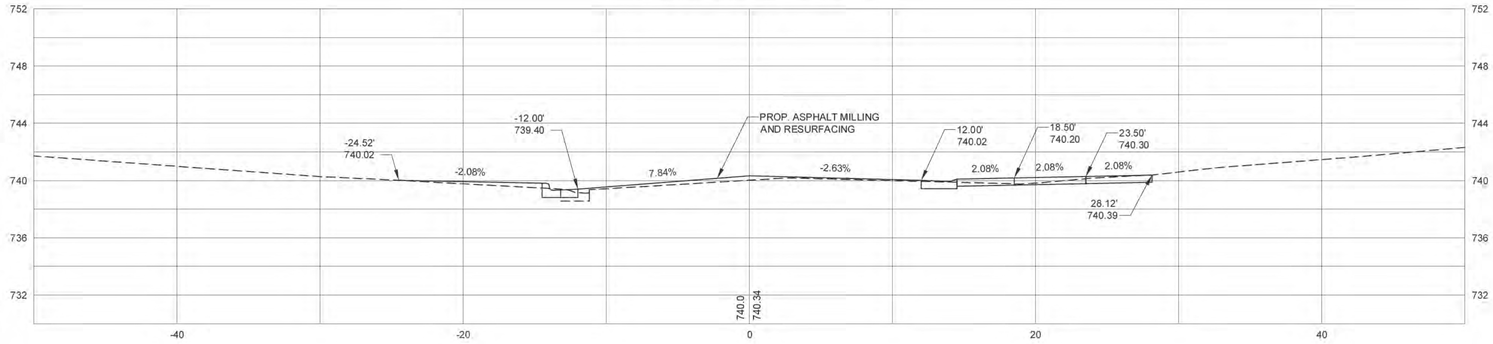
15+82.43 DRIVEWAY (RIGHT) CL



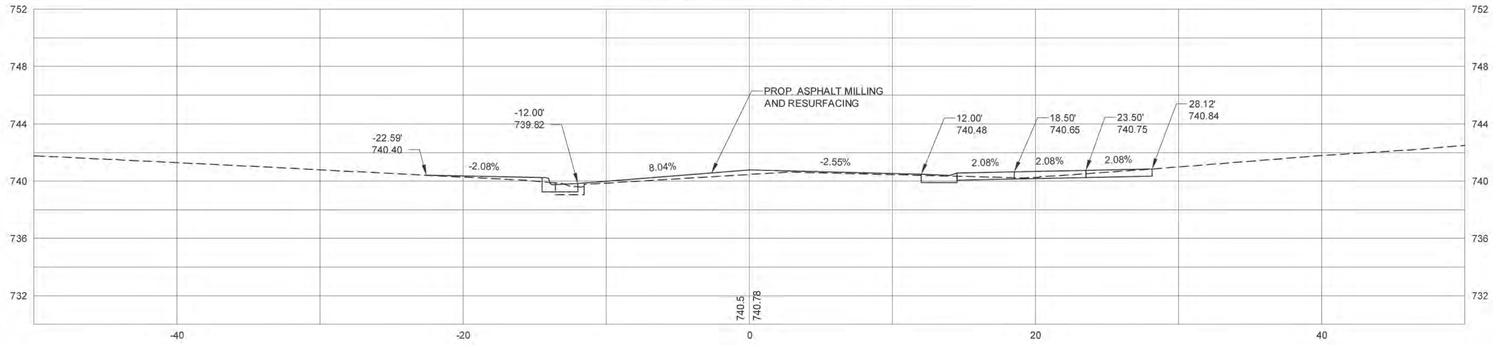
15+59.11 Y-1 PT



15+50 DRIVEWAY (RIGHT)



15+40.67 DRIVEWAY (RIGHT) CL



SHEET X26 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH	
	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

Plans Prepared By:

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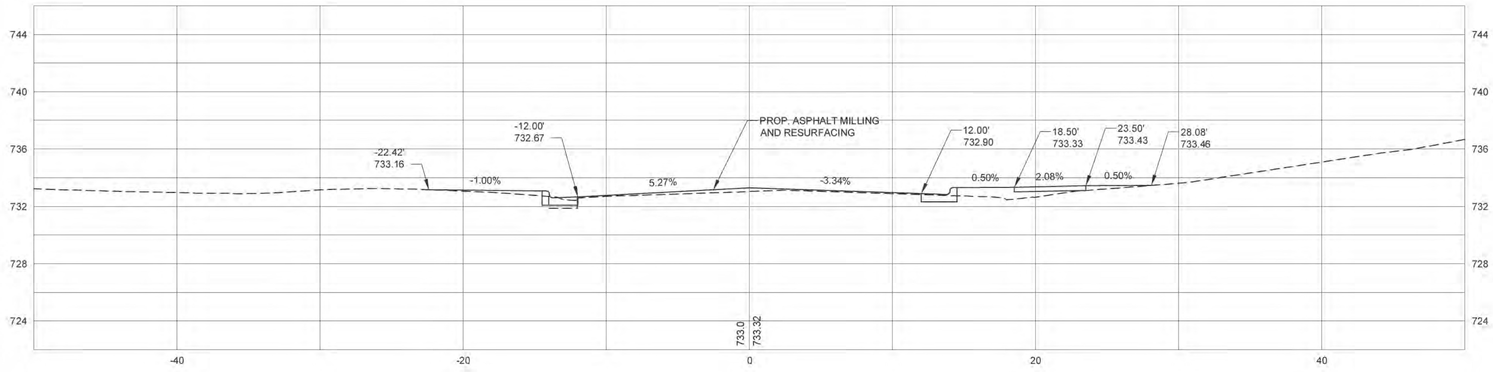
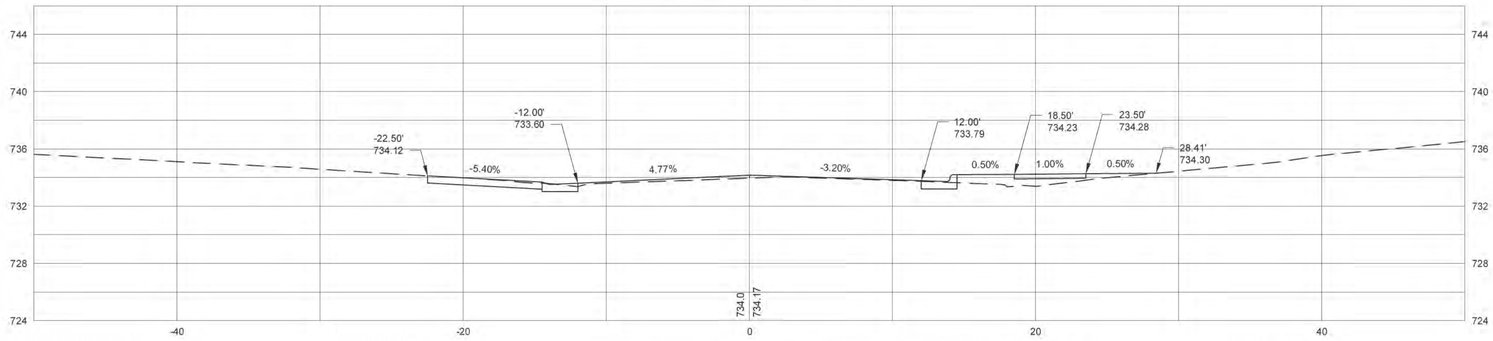
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

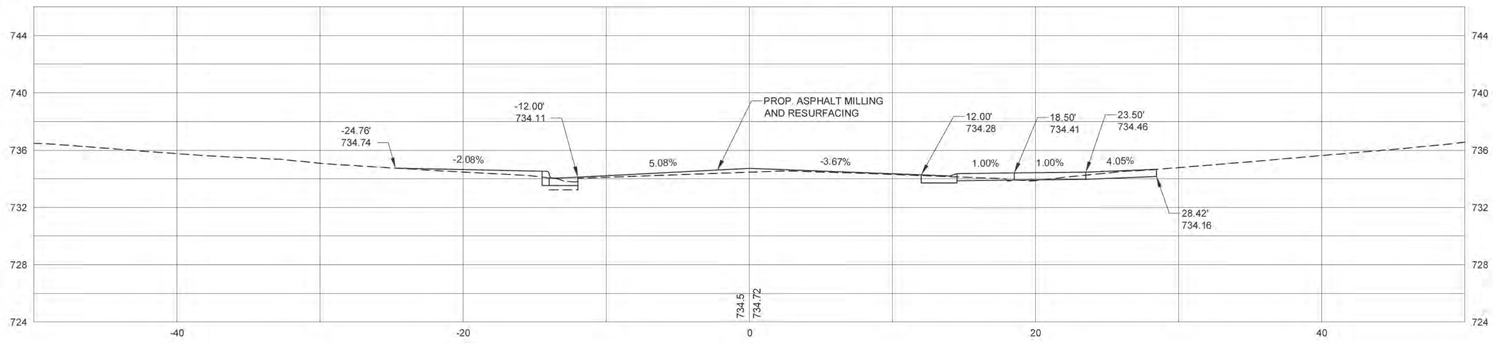
17+00



16+79.76 DRIVEWAY (LEFT) CL



16+68.63 DRIVEWAY (RIGHT) CL



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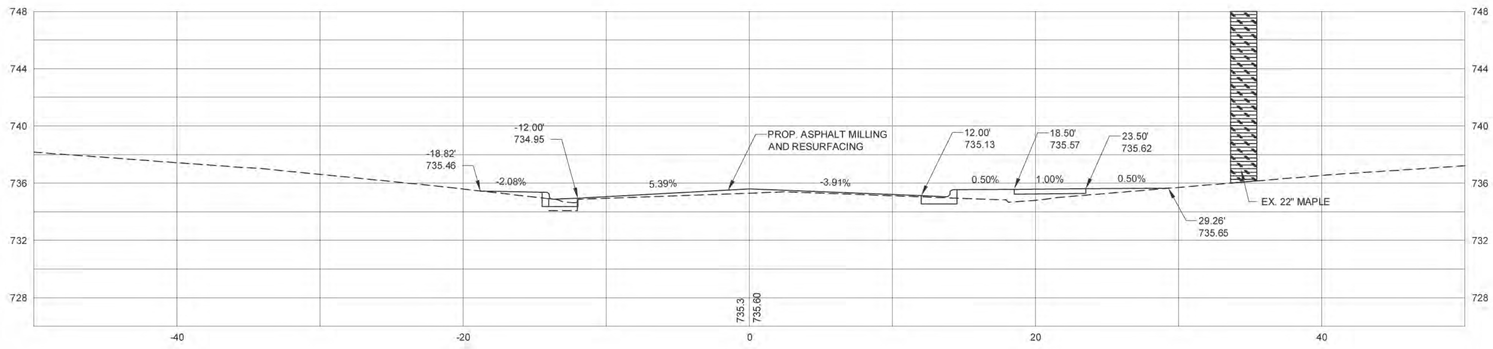

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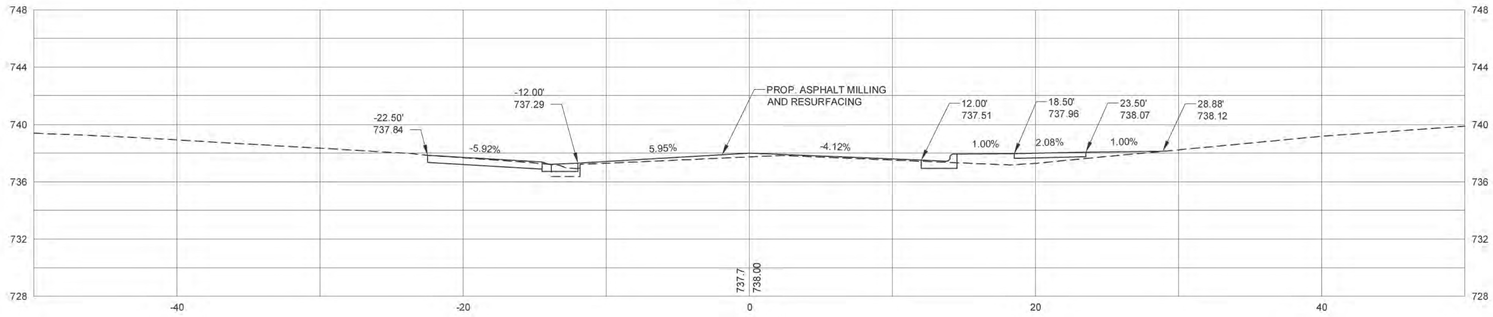

SHEET X27 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
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	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

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1043 E. MOREHEAD STREET, SUITE 203
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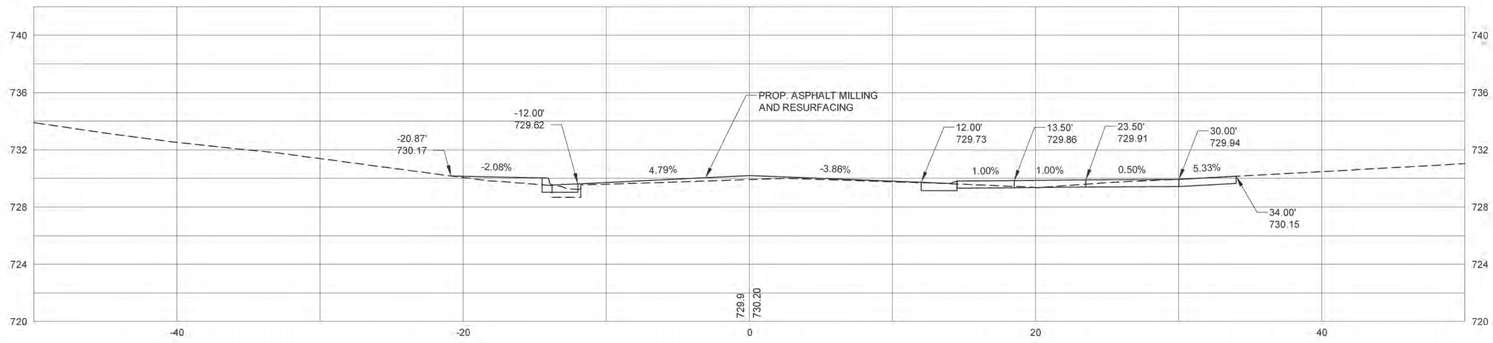
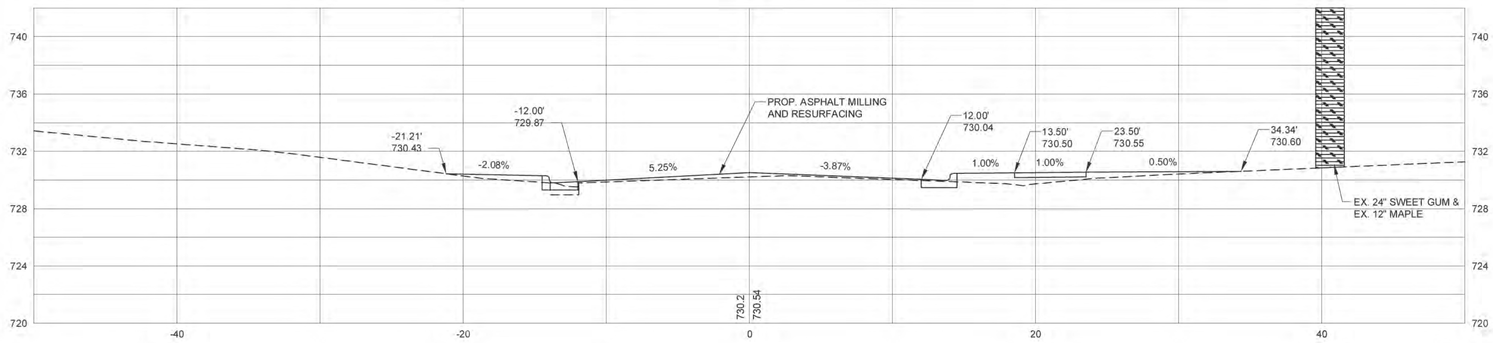
CHARLOTTE.

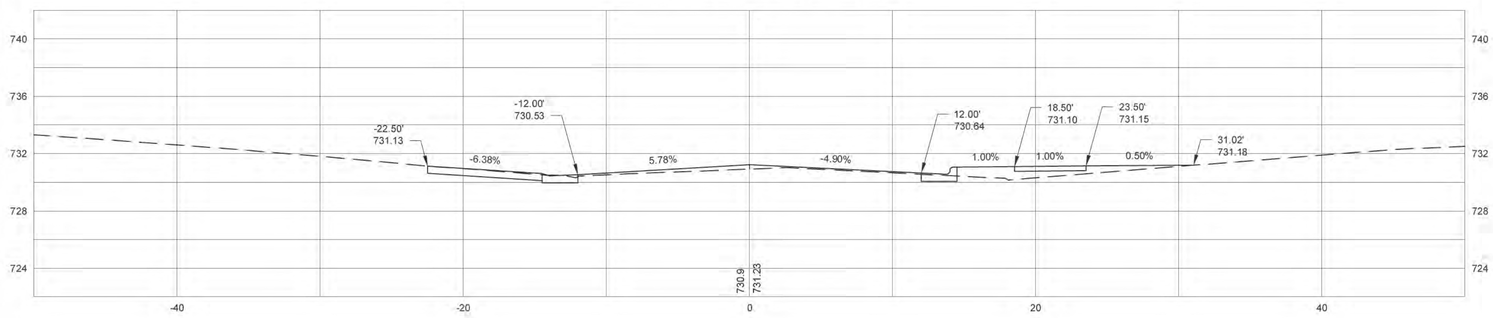
18+21.35 DRIVEWAY (RIGHT) CL



18+00



17+69.33 DRIVEWAY (LEFT) CL



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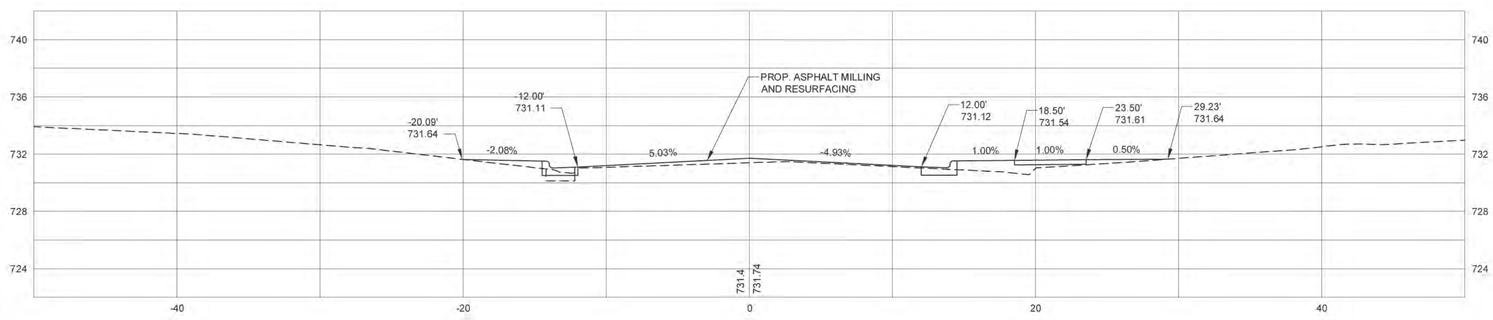
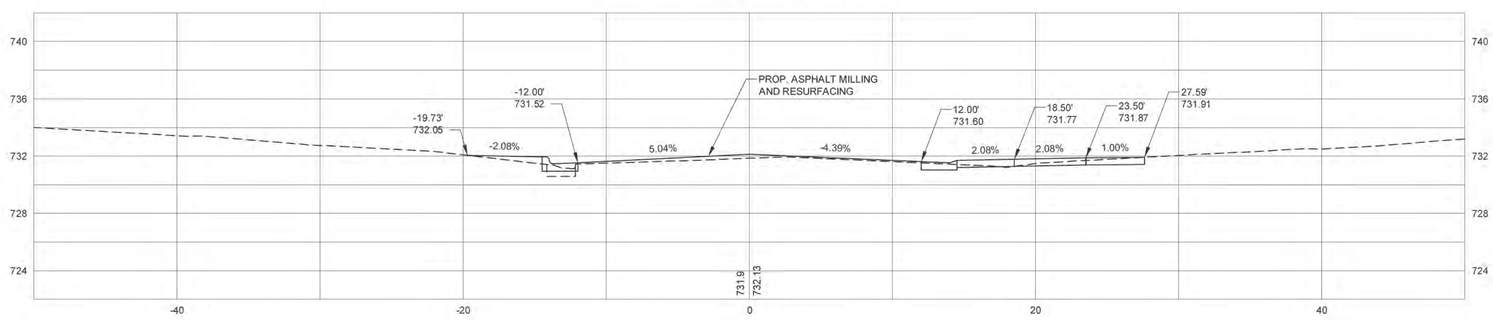


17+35.80 DRIVEWAY (RIGHT) CL



SHEET	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE	NO.	DATE	BY	DESCRIPTION
X28		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH					
OF X34	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY				
		SH APPROVED BY	9-30-13 DATE				

NORTH CAROLINA PROFESSIONAL SEAL 5270 ENGINEER

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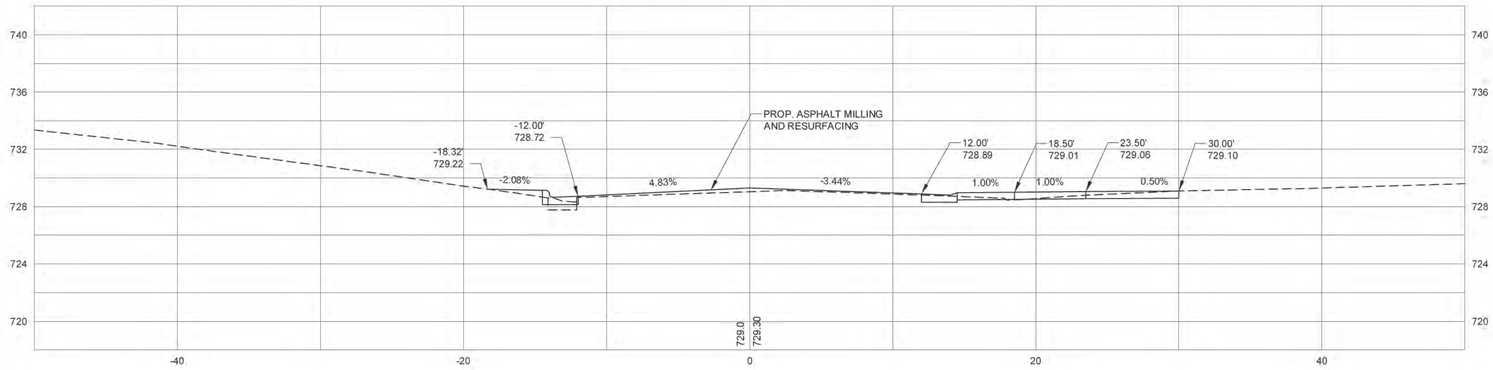
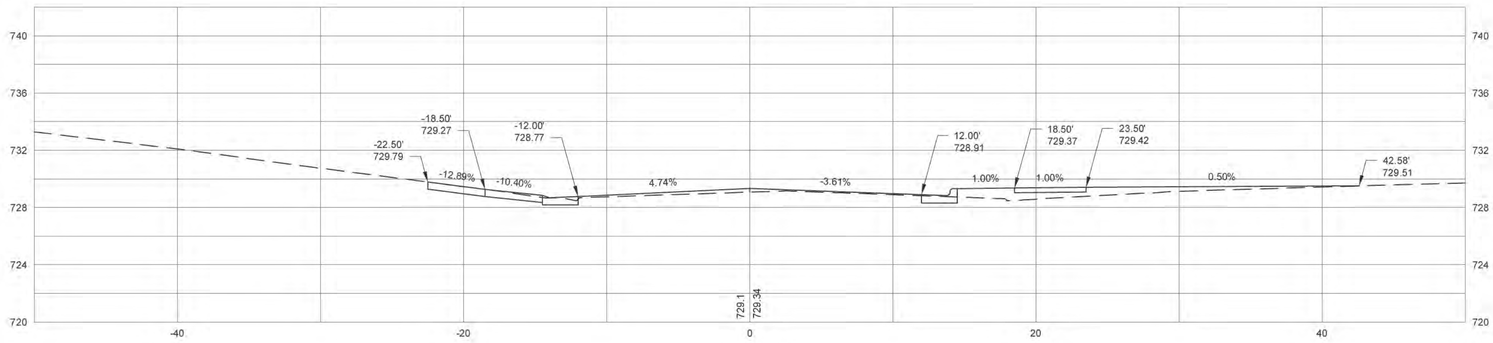
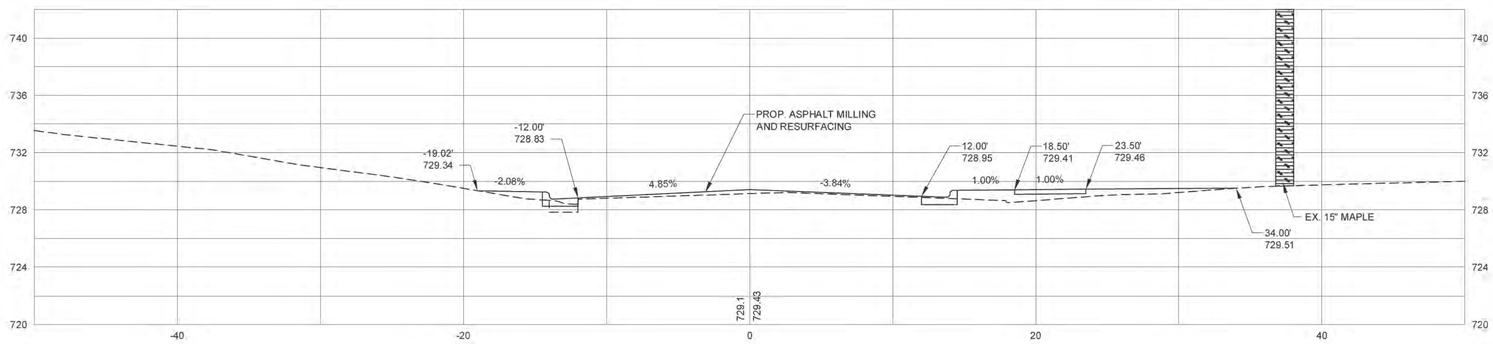
19+27.35 DRIVEWAY (RIGHT) CL



19+17.53 DRIVEWAY (LEFT) CL



19+00



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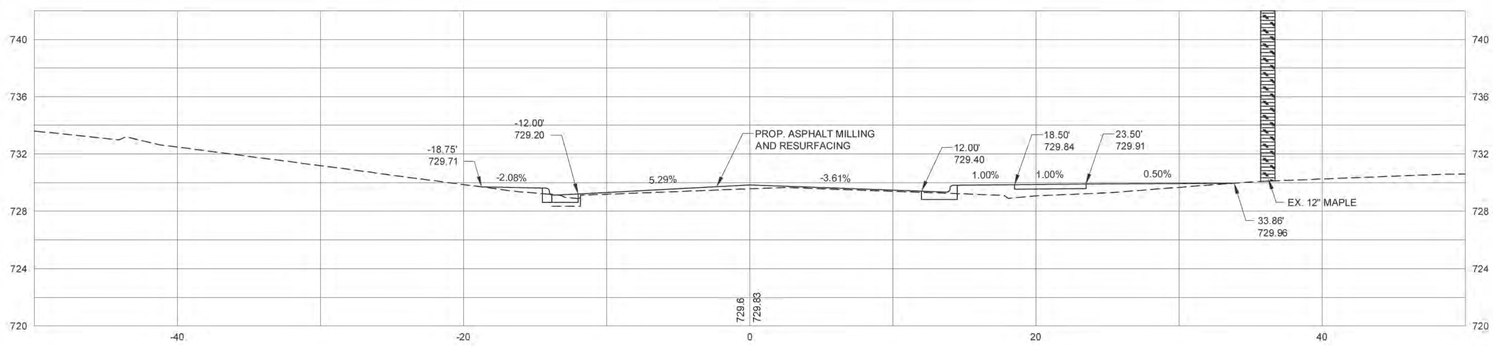
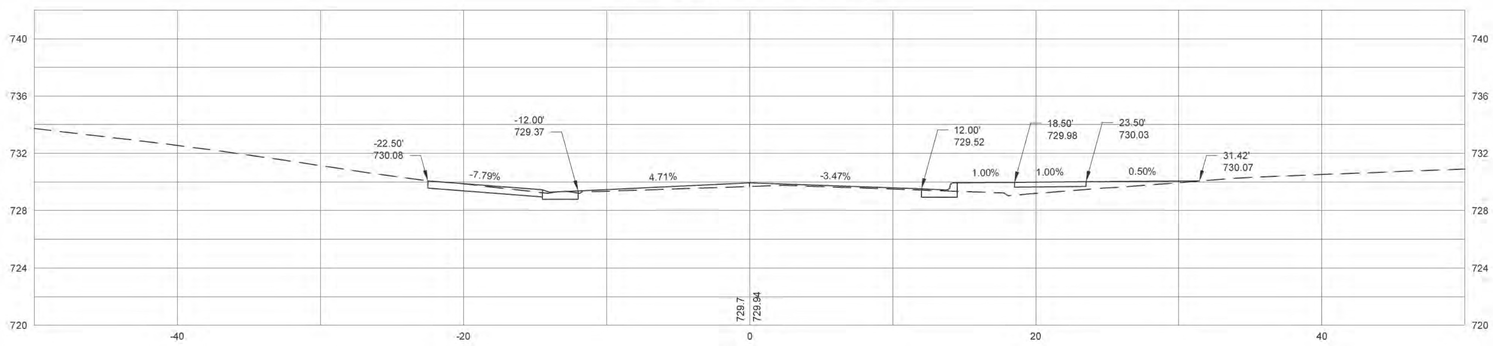


18+39.32 DRIVEWAY (LEFT) CL



SHEET X29 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WH2012plots CAD FILE PATH	
	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

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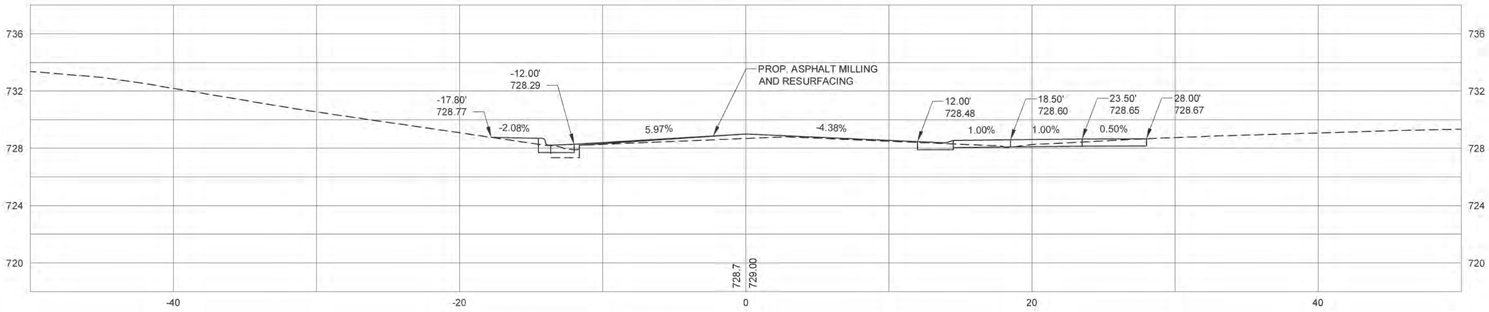
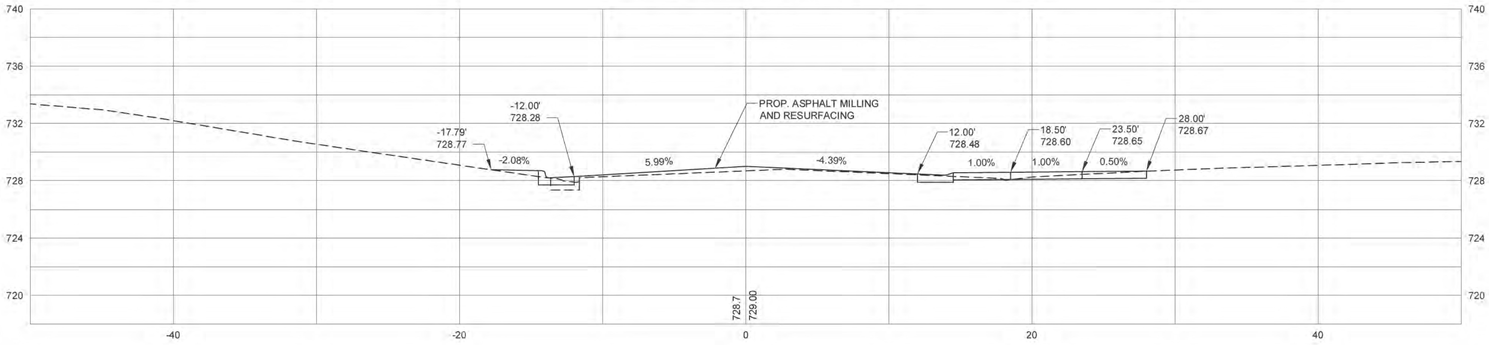
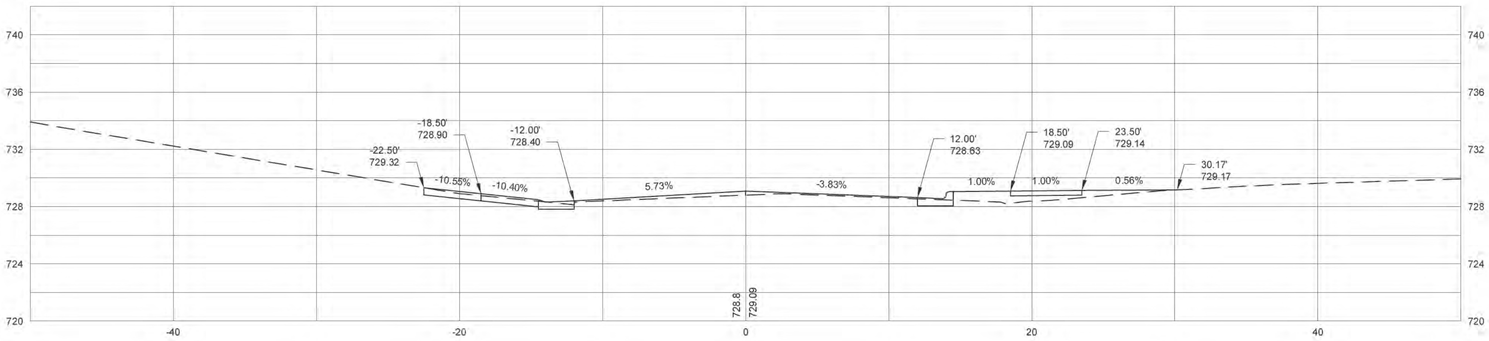
20+00 DRIVEWAY (RIGHT)



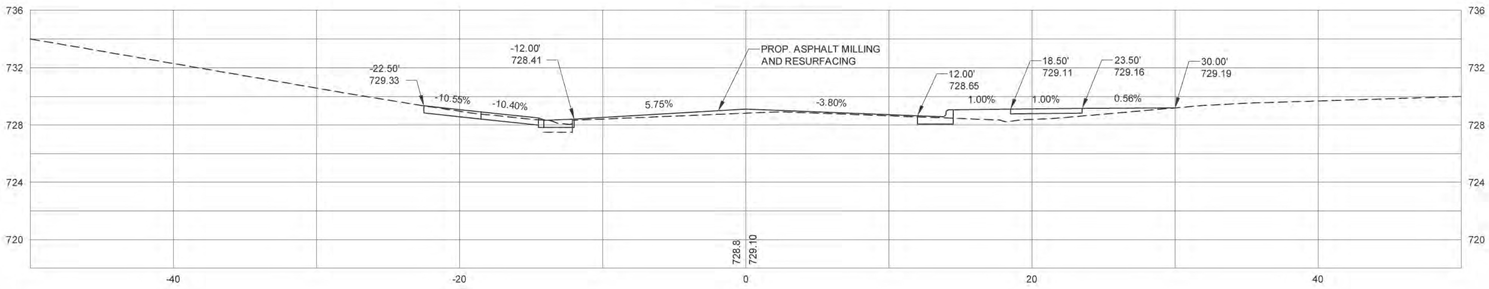
19+99.38 DRIVEWAY (RIGHT) CL



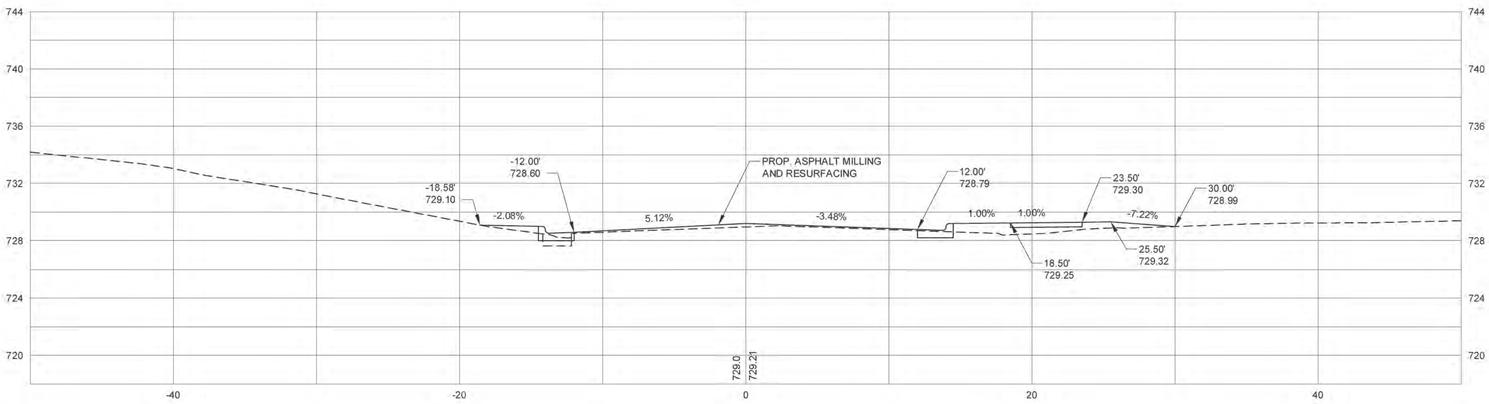
19+79.22 DRIVEWAY (LEFT) CL



19+76 Y-1 PC



19+50



SHEET X30 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets\WB2012plots CAD FILE PATH	
	SHACKLEFORD TER Y-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

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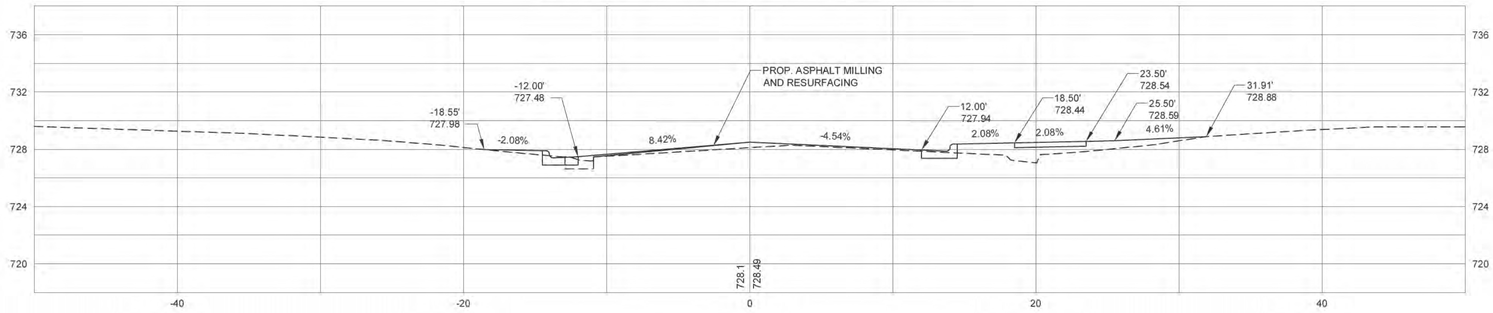
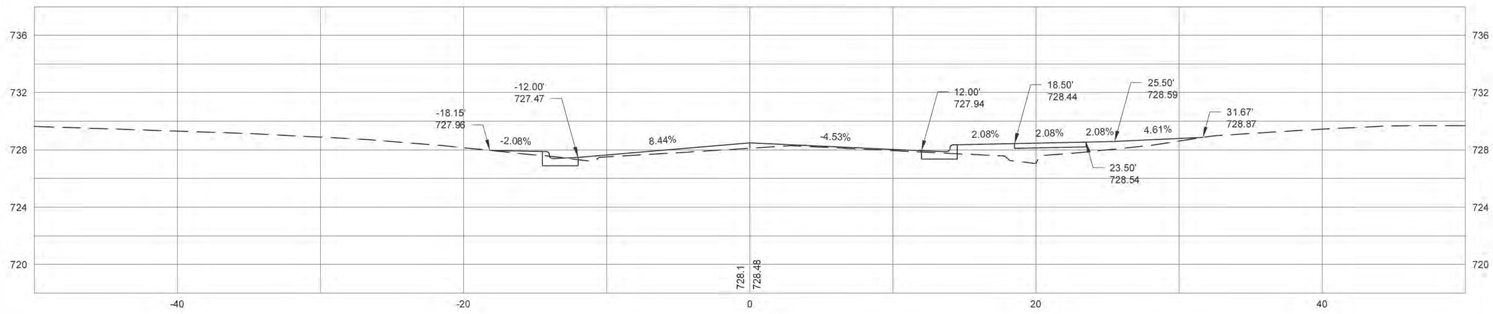
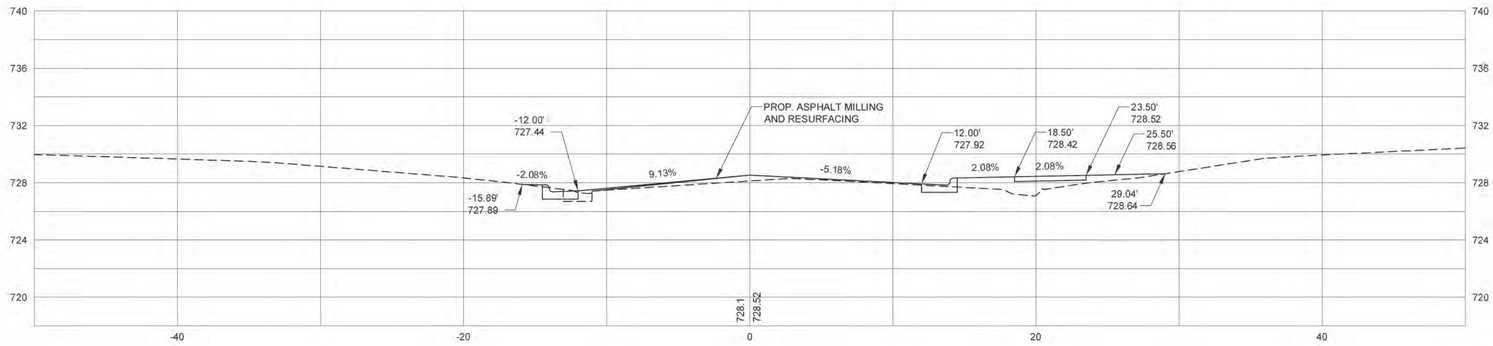
21+06.50 OLD MEADOW ROAD Y-2 SW CR-PC



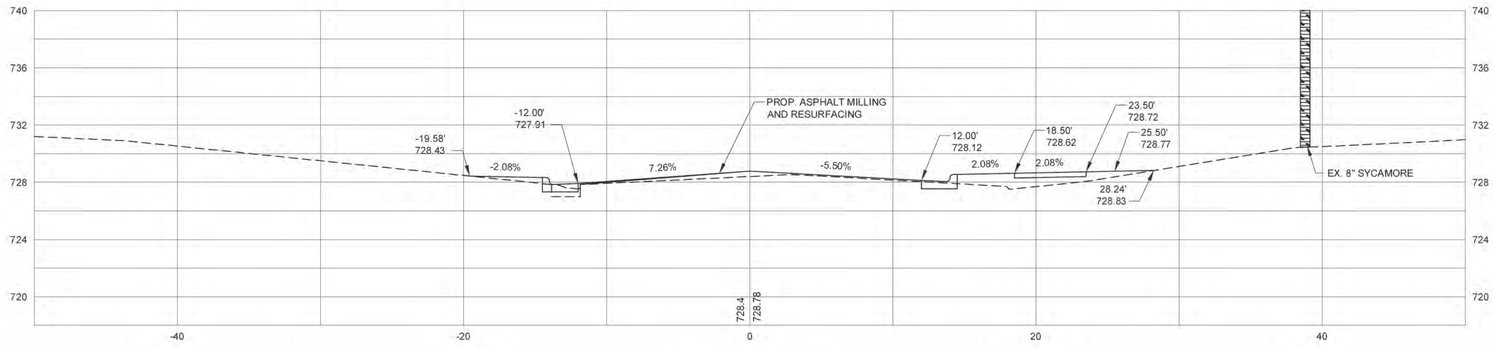
21+05.73 OLD MEADOW ROAD Y-2 NW CR-PC



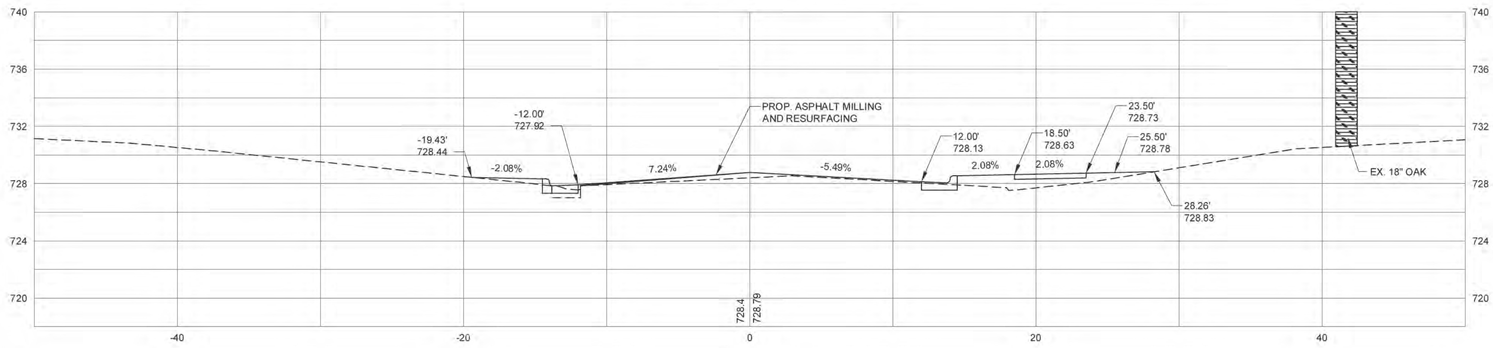
21+00



20+50



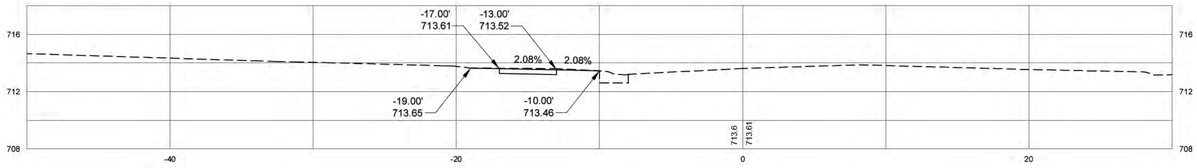
20+48.25 Y-1 PT



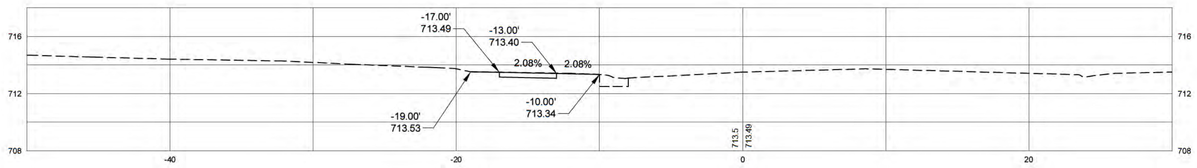
SHEET X31 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE	NO.	DATE	BY	DESCRIPTION	Plans Prepared By:
	SHACKLEFORD TER Y-1 CROSS SECTIONS	H:\LandProjects\080214_01_Eastwoods\plotsheets\WI2012plots CAD FILE PATH						USI INFRASTRUCTURE OF CAROLINA, INC. 1043 E. MOREHEAD STREET, SUITE 203 CHARLOTTE, NORTH CAROLINA 28204 NC LICENSE # C-1950
		BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY					CHARLOTTE.
		SH APPROVED BY	9-30-13 DATE					

END SIDEWALK

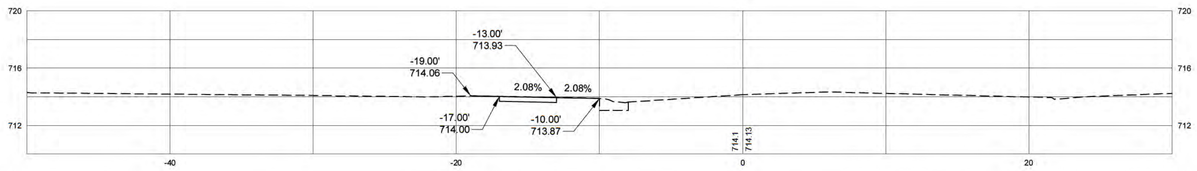
12+40



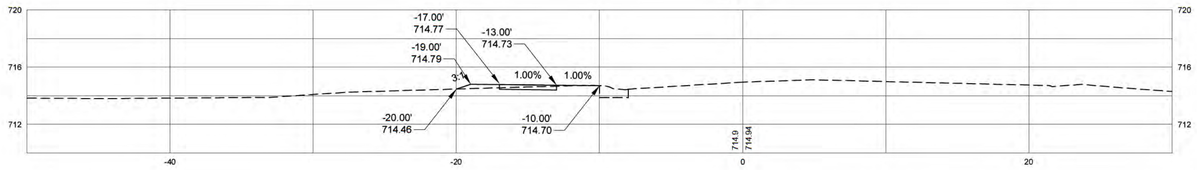
12+00



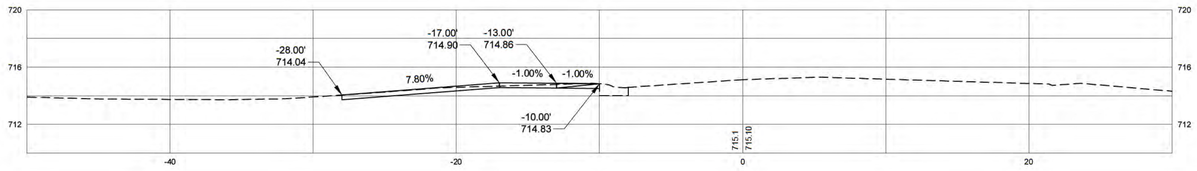
11+50



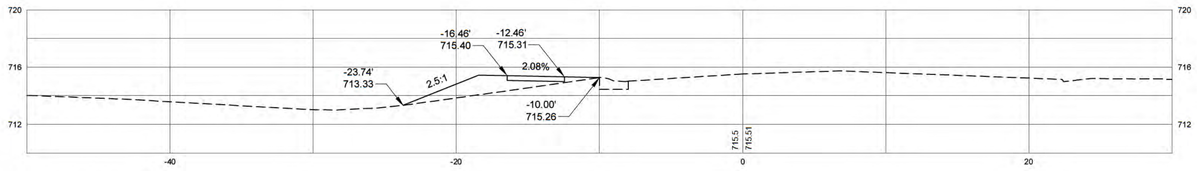
11+00



10+87.16 - DRIVEWAY CL

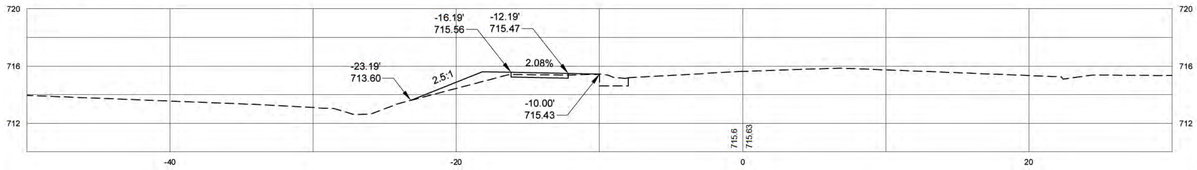


10+50



BEGIN SIDEWALK

10+38



SHEET X32 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
	OLD MEADOW RD Y-2 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	9-30-13 DATE

NO.	DATE	BY	DESCRIPTION

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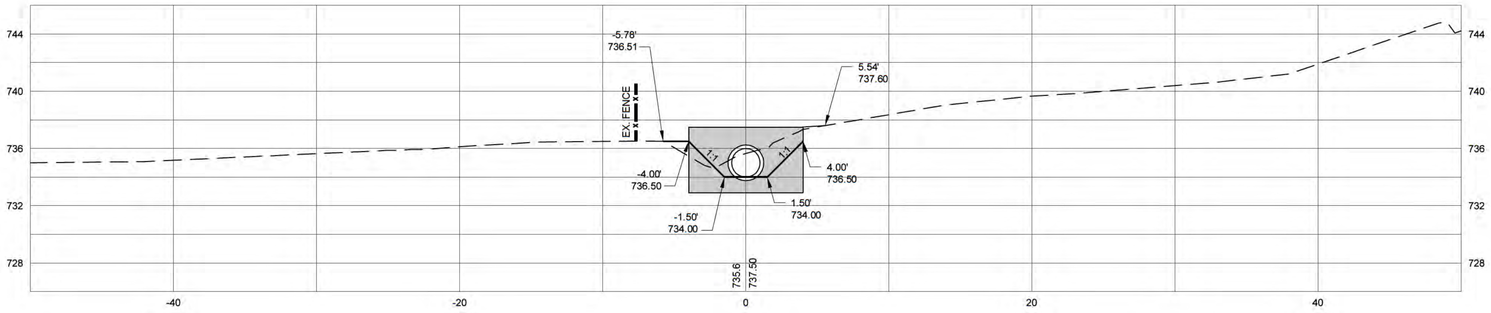
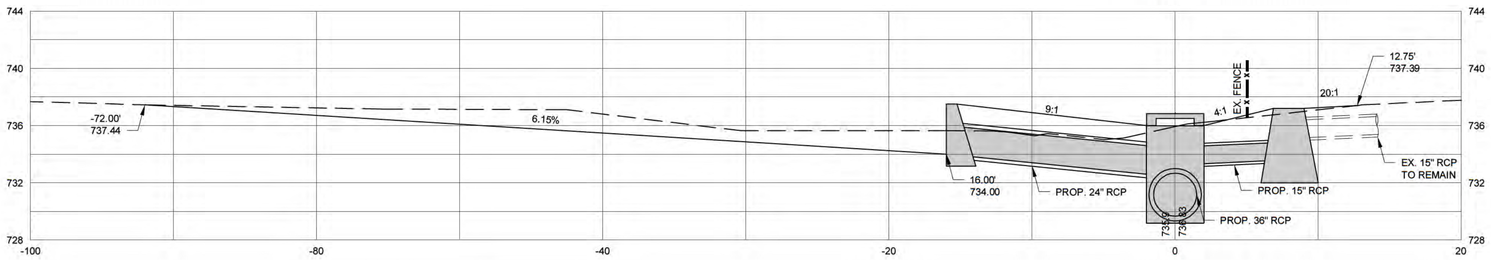
1043 E. MOREHEAD STREET, SUITE 203
CHARLOTTE, NORTH CAROLINA 28204
NC LICENSE # C-1950

CHARLOTTE.

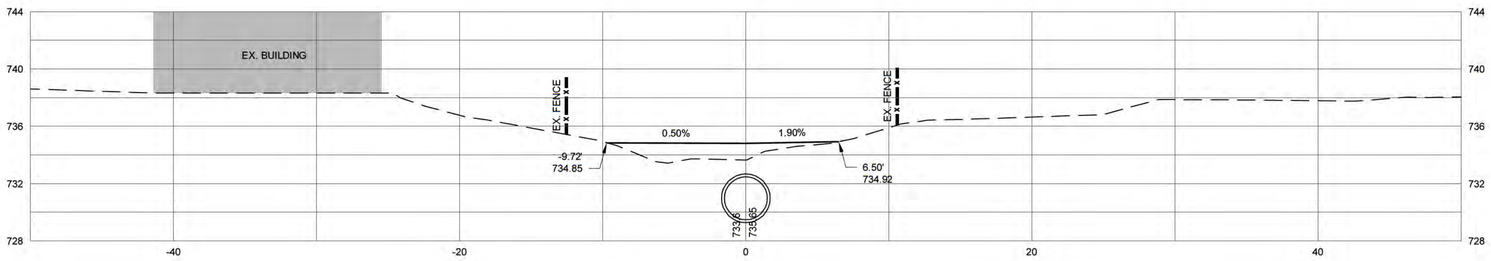
2+85.63



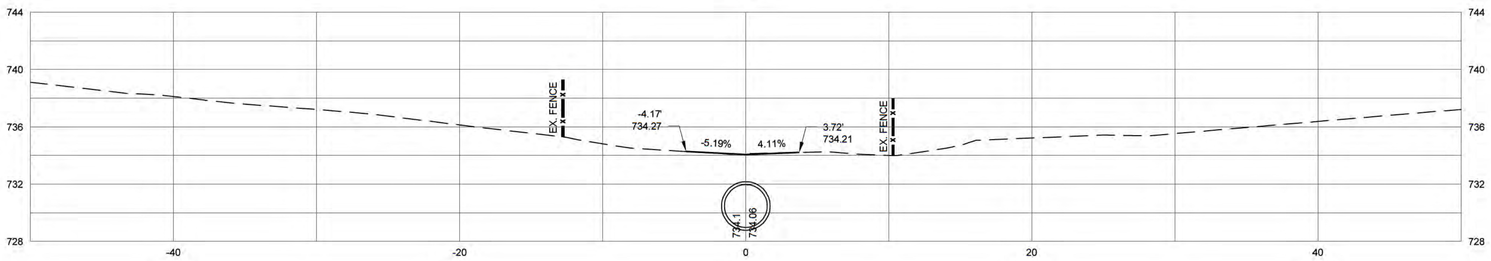
2+69.63



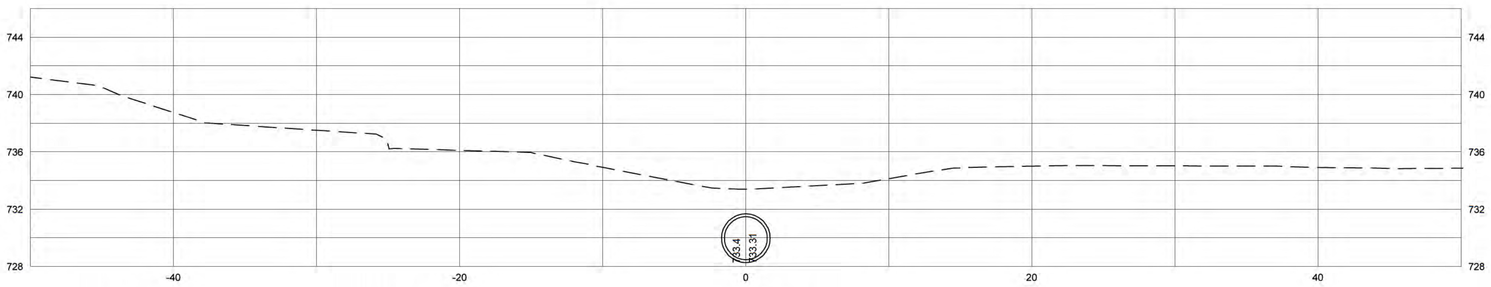
2+50



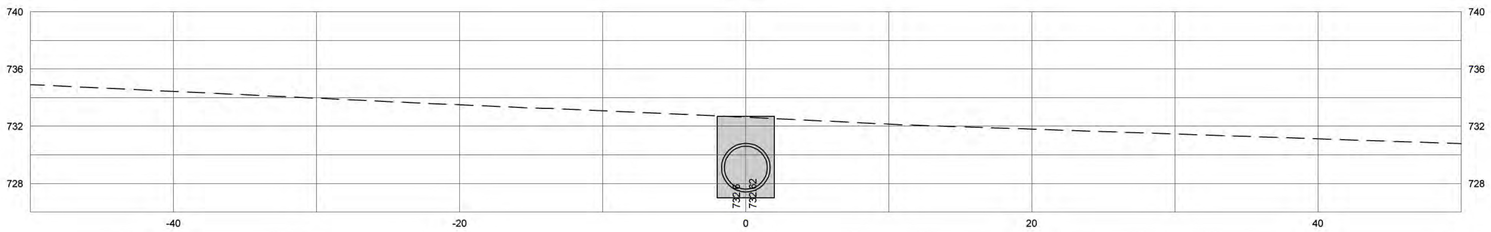
2+00



1+50



1+00



SHEET X33 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE
		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH	
	ALIGNMENT SD-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY
		SH APPROVED BY	11-27-13 DATE

NO.	DATE	BY	DESCRIPTION

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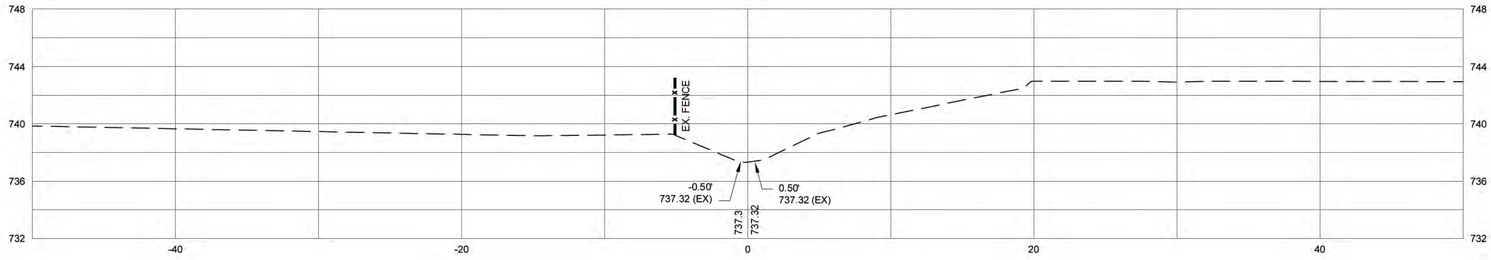
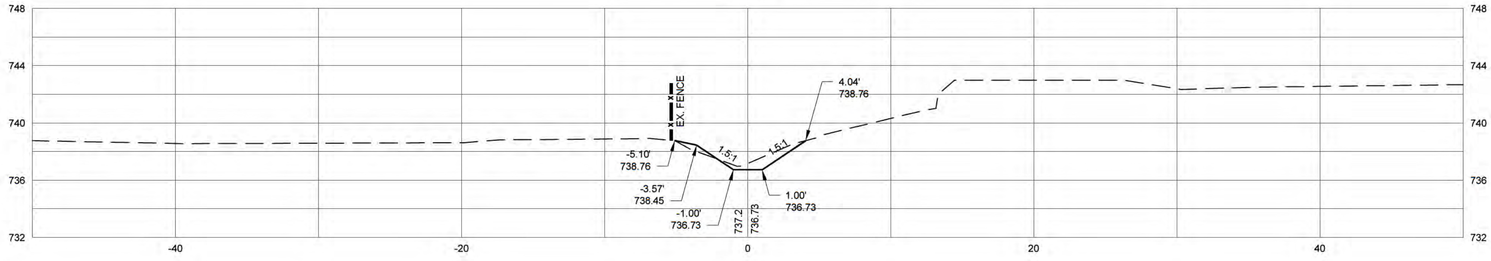
NC LICENSE # C-1950

CHARLOTTE.

3+40



3+30



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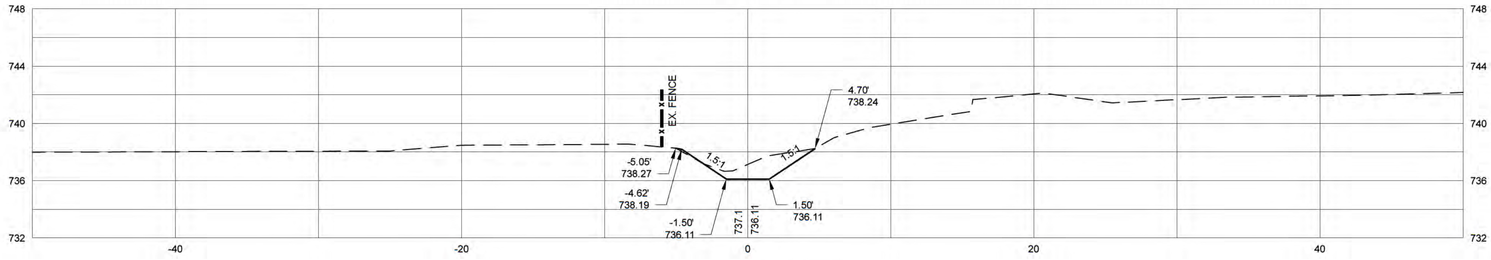

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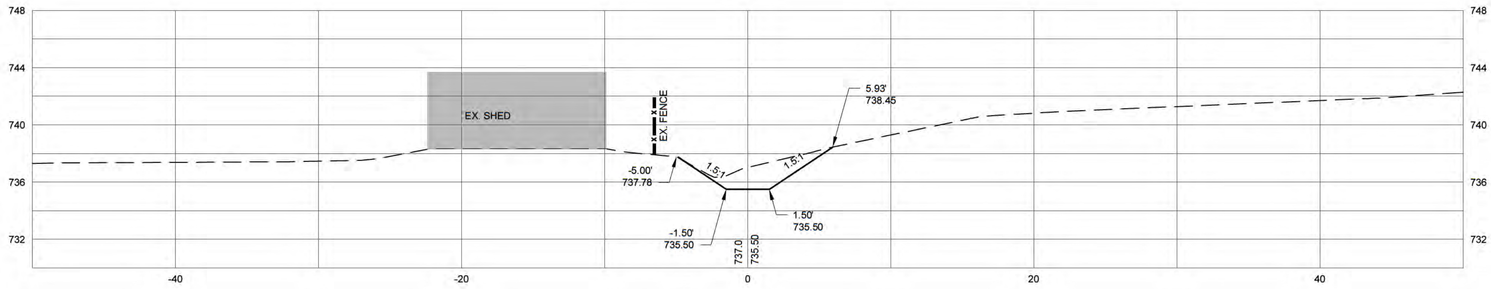
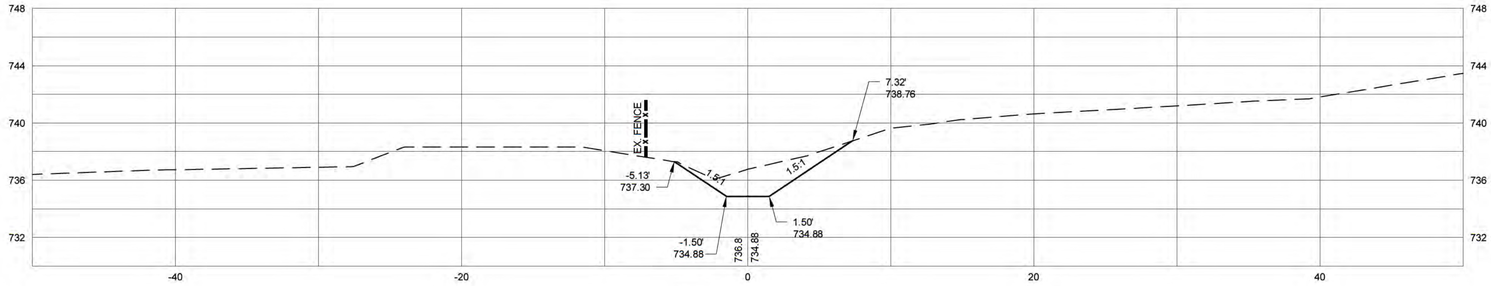


3+00



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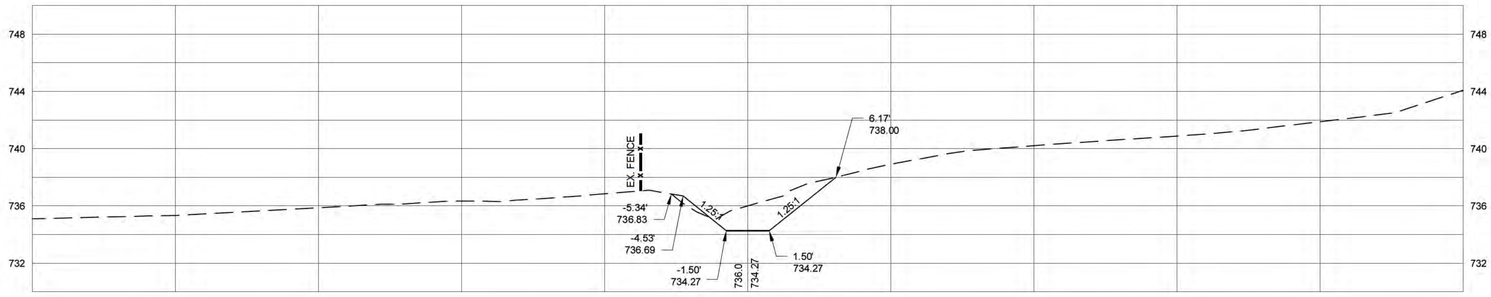

SHEET X34 OF X34	EASTWOODS NEIGHBORHOOD IMPROVEMENTS PROJECT	512-08-053 JOB NO.	1"=5' H; 1"=5' V SCALE		NO.	DATE	BY	DESCRIPTION
		H:\LandProjects\080214_01_Eastwoods\plotsheets CAD FILE PATH						
	ALIGNMENT SD-1 CROSS SECTIONS	BS,WB,CM PREPARED BY	BS,WB,CM CHECKED BY					
		SH APPROVED BY	11-27-13 DATE					

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