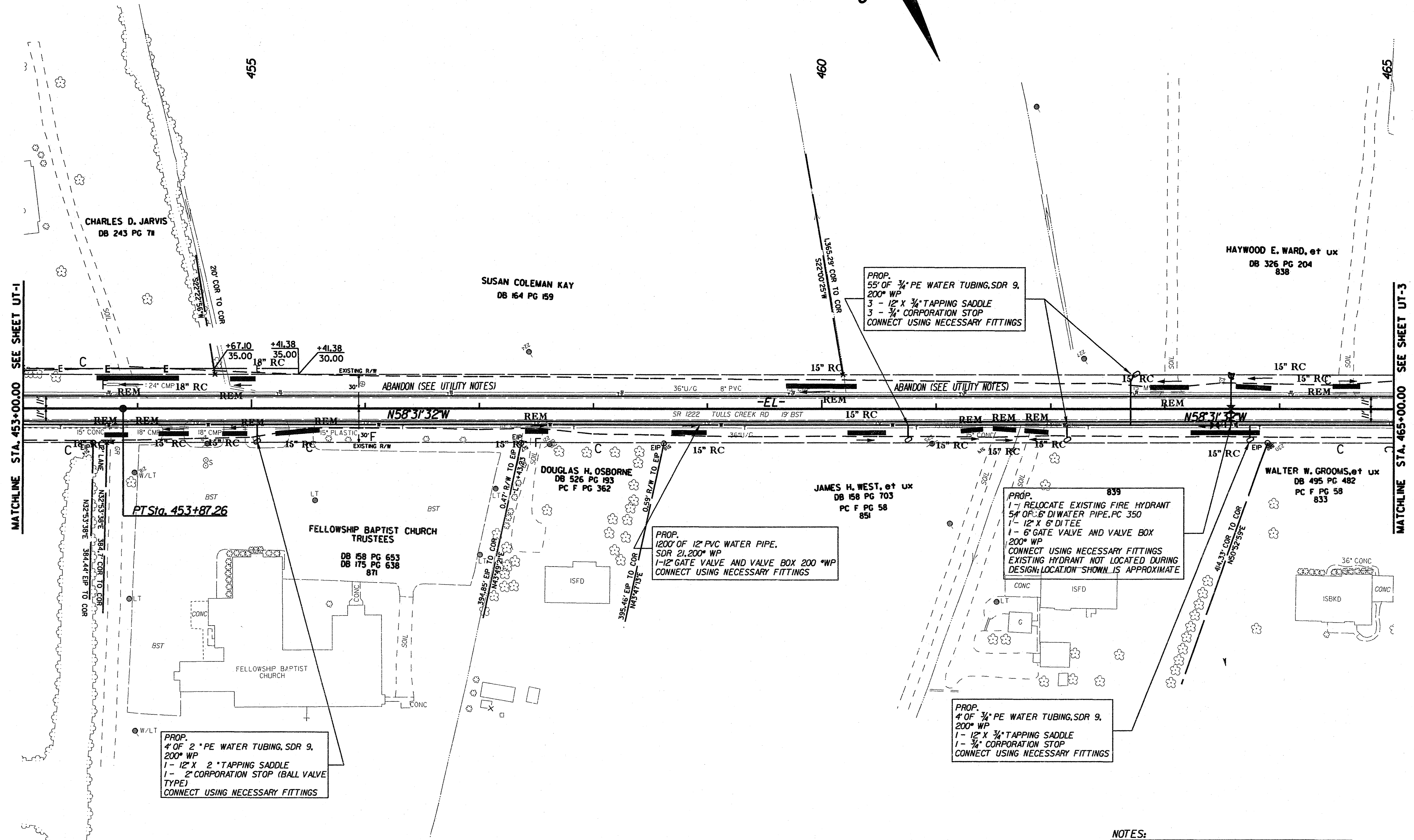
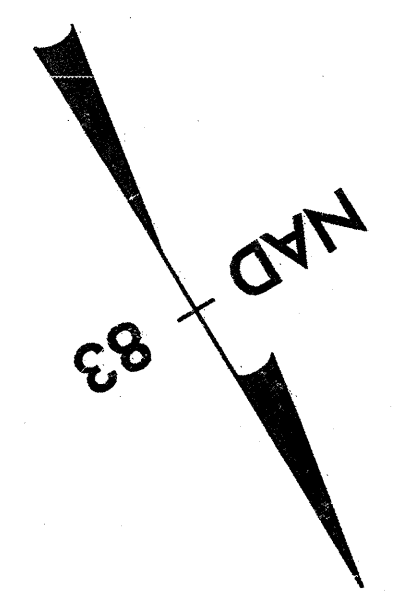


- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



MATCHLINE STA. 453+00.00 SEE SHEET UT-1

MATCHLINE STA. 465+00.00 SEE SHEET UT-3

PROP.  
4' OF 2" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 2" TAPPING SADDLE  
1 - 2" CORPORATION STOP (BALL VALVE  
TYPE)  
CONNECT USING NECESSARY FITTINGS

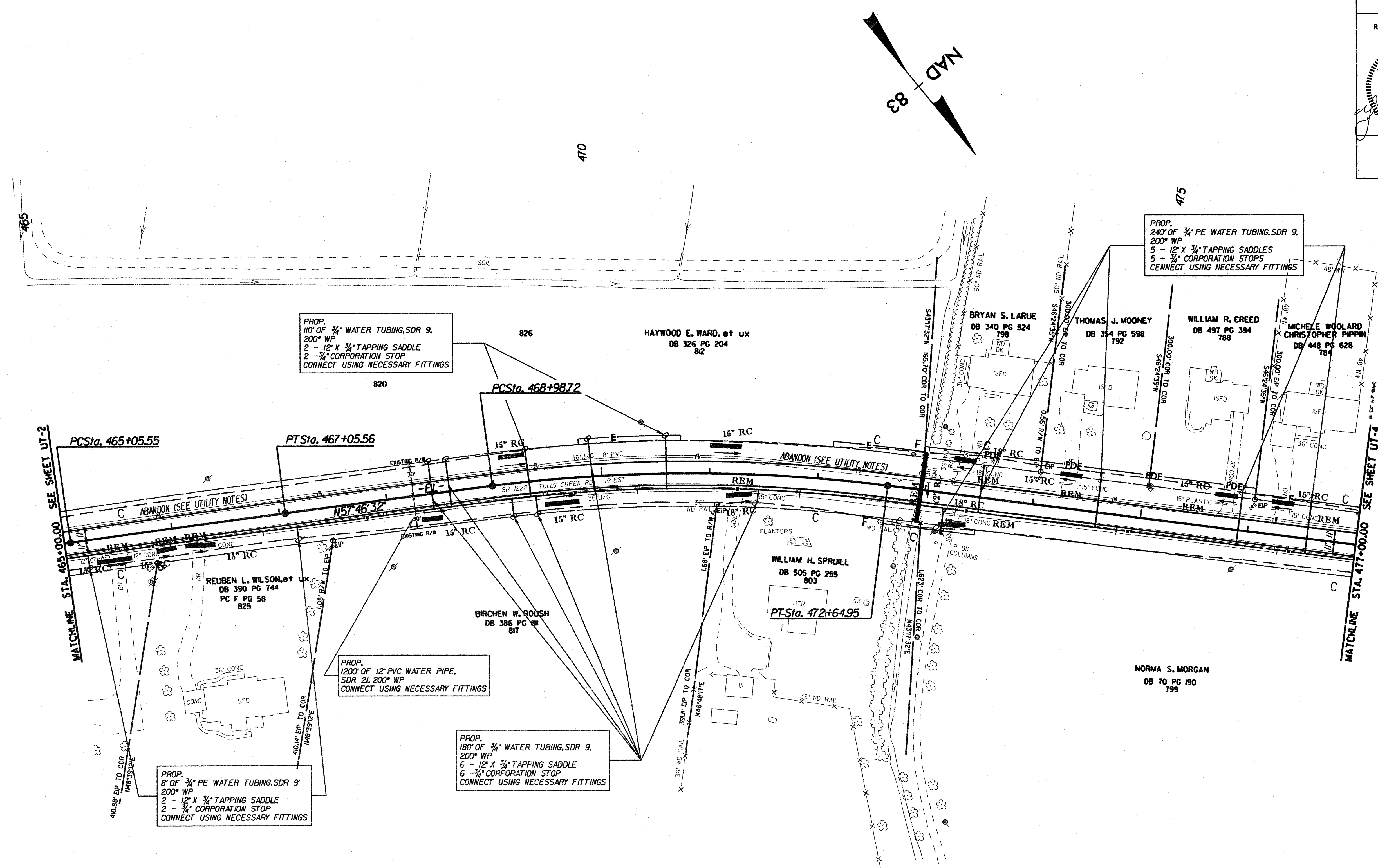
PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
1 - 12" GATE VALVE AND VALVE BOX 200' WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
55' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
3 - 12" X 3/4" TAPPING SADDLE  
3 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
54' OF 6" DI WATER PIPE, PC 350  
1 - 12" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX  
200' WP  
CONNECT USING NECESSARY FITTINGS  
EXISTING HYDRANT NOT LOCATED DURING  
DESIGN; LOCATION SHOWN IS APPROXIMATE

PROP.  
4' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
10' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

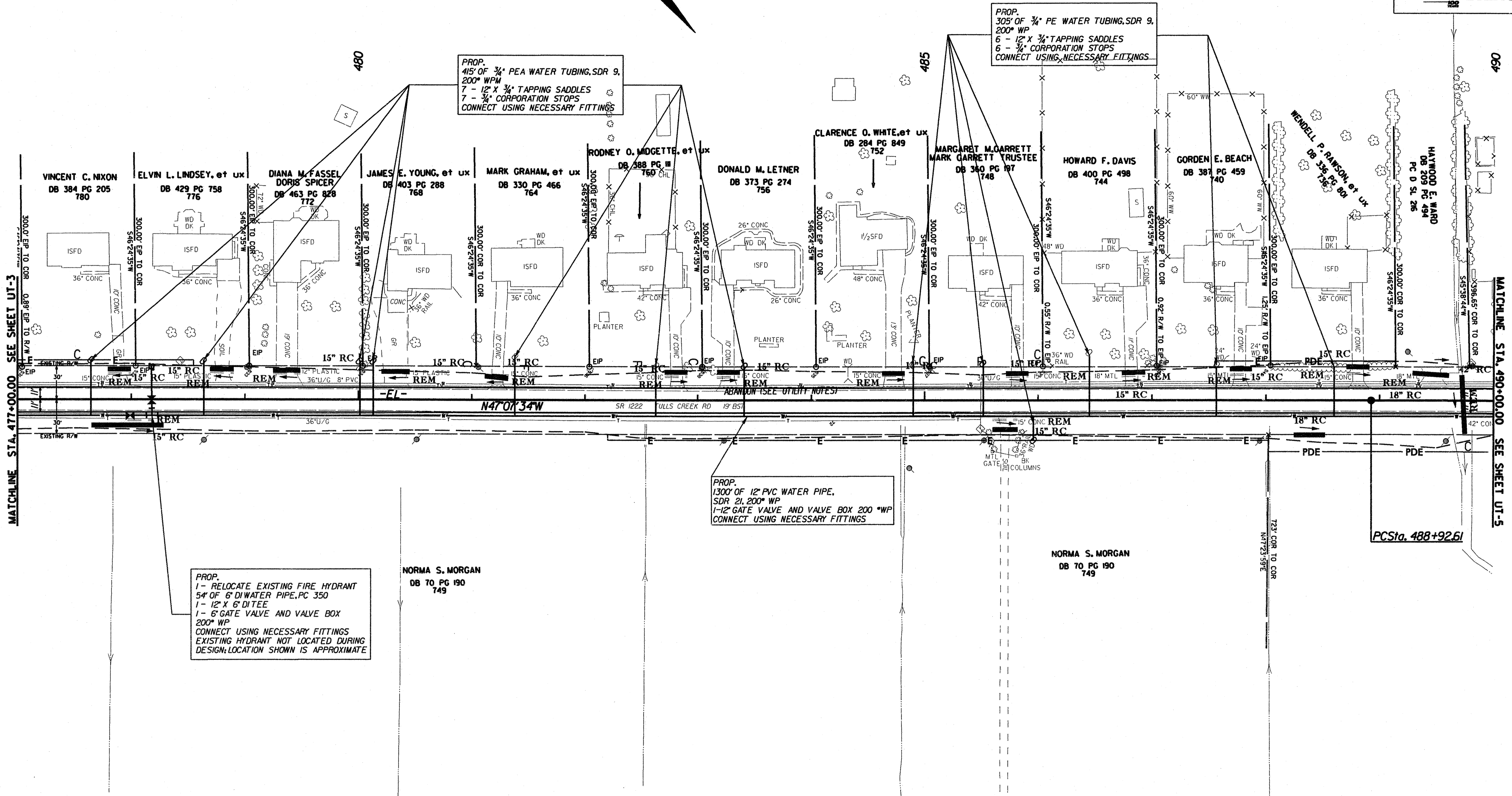
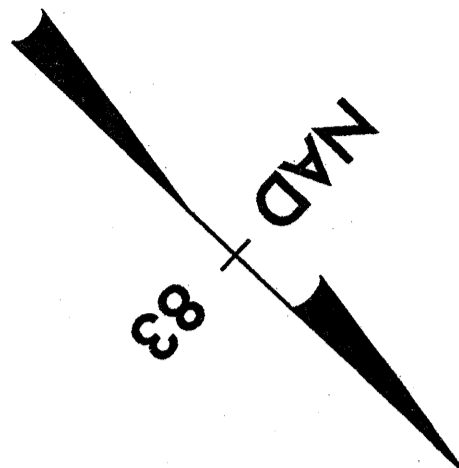
PROP.  
240' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
5 - 12" X 3/4" TAPPING SADDLES  
5 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
8' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
180' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
6 - 12" X 3/4" TAPPING SADDLE  
6 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

- NOTES:
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
415' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
7 - 12" X 3/4" TAPPING SADDLES  
7 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
305' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
6 - 12" X 3/4" TAPPING SADDLES  
6 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1300' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
1-12" GATE VALVE AND VALVE BOX 200" WP  
CONNECT USING NECESSARY FITTINGS

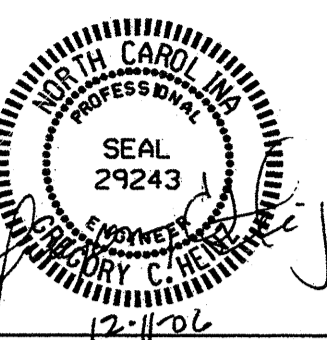

PROP.  
1- RELOCATE EXISTING FIRE HYDRANT  
54' OF 6" DI WATER PIPE, PC 350  
1- 12" X 6" DITEE  
1- 6" GATE VALVE AND VALVE BOX  
200" WP  
CONNECT USING NECESSARY FITTINGS  
EXISTING HYDRANT NOT LOCATED DURING  
DESIGN; LOCATION SHOWN IS APPROXIMATE

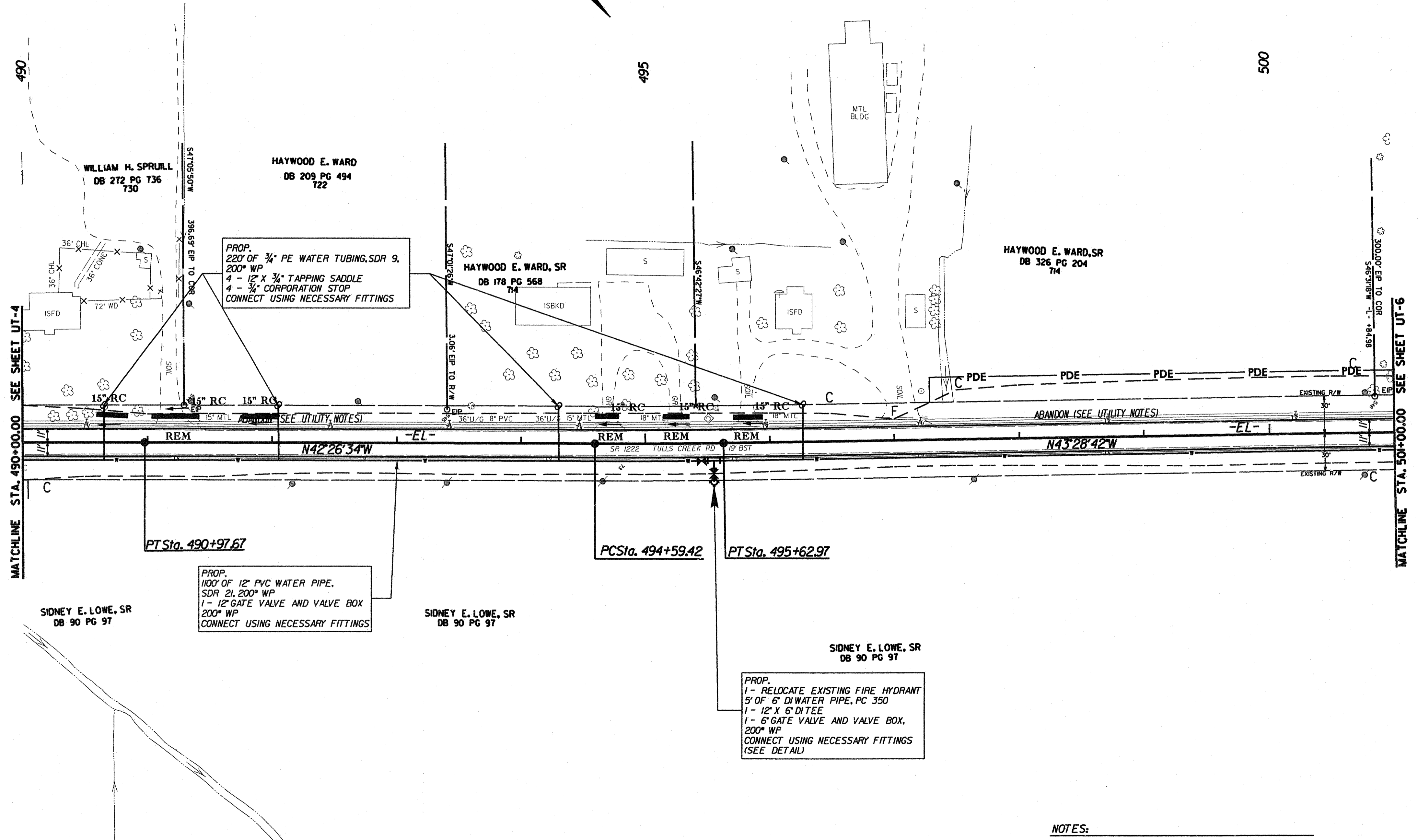
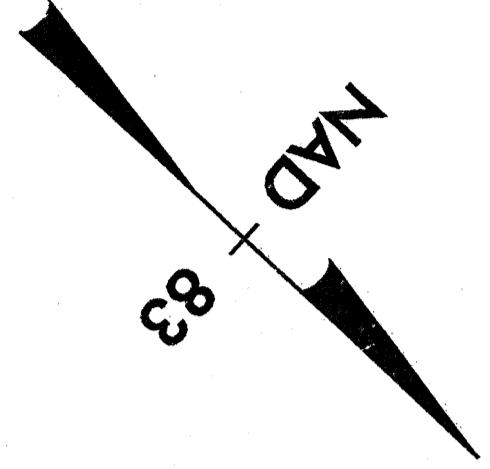
MATCHLINE STA. 477+00.00 SEE SHEET UT-3

MATCHLINE STA. 490+00.00 SEE SHEET UT-5

PCSta. 488+92.61

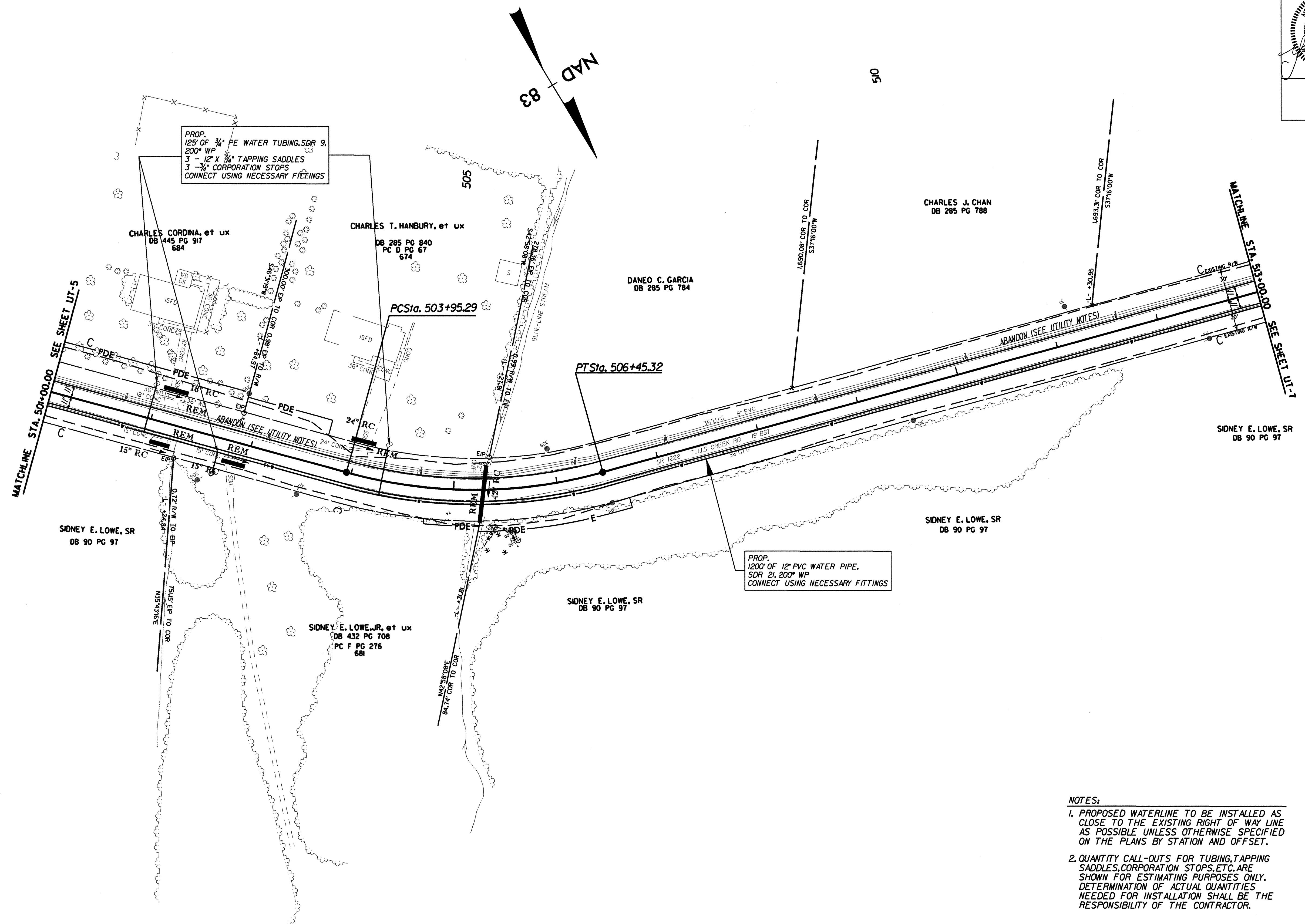
- NOTES:
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PROJECT REFERENCE NO. R-4429C	SHEET NO. UT-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
	



- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

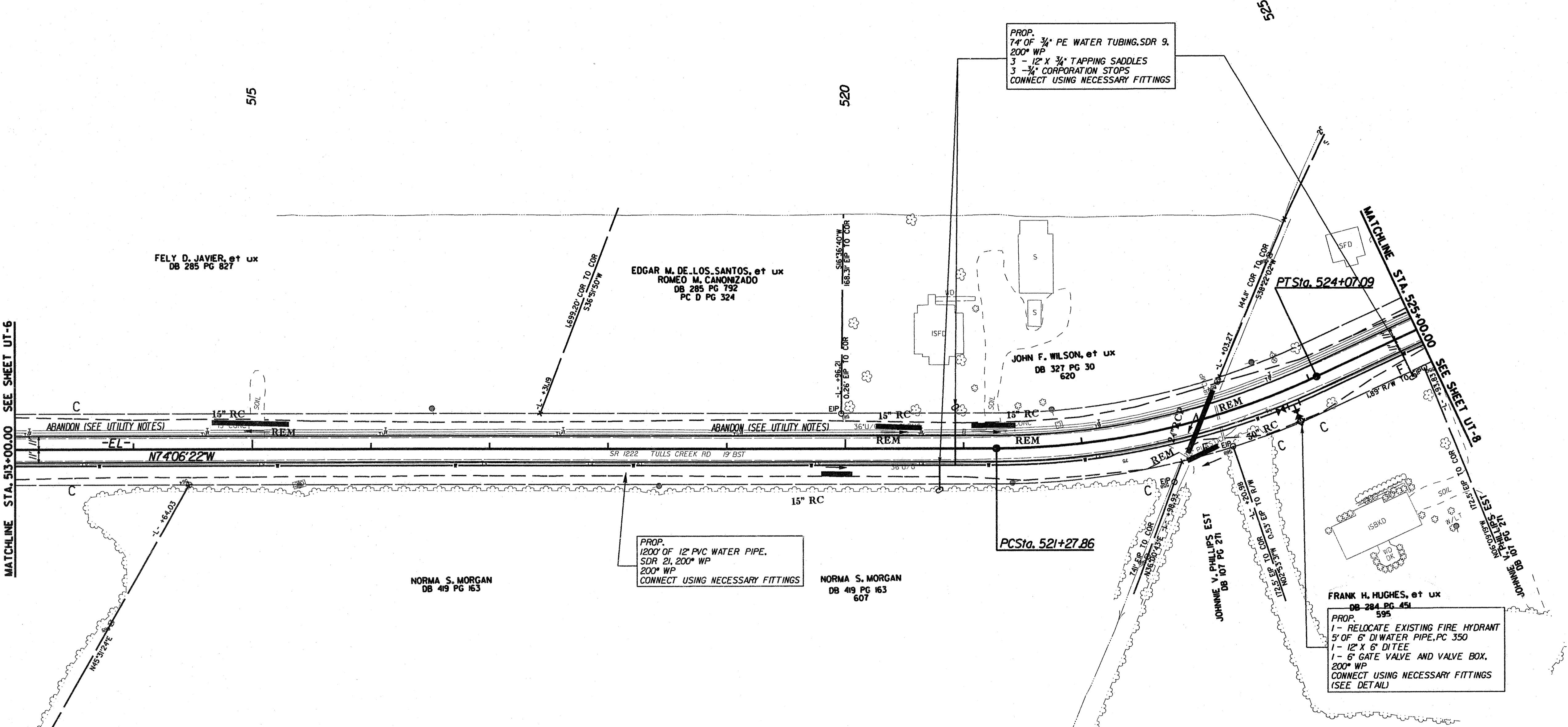
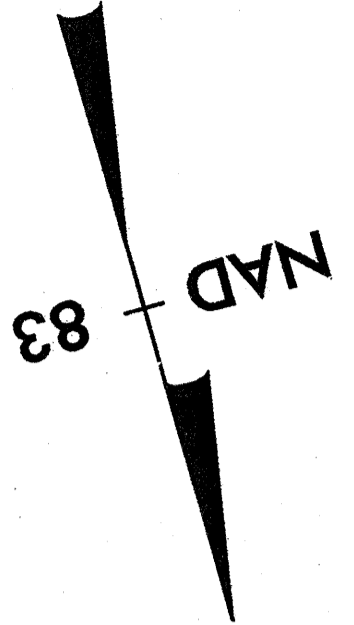
PROJECT REFERENCE NO. R-4429C	SHEET NO. UT-6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	



PROP.  
125' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

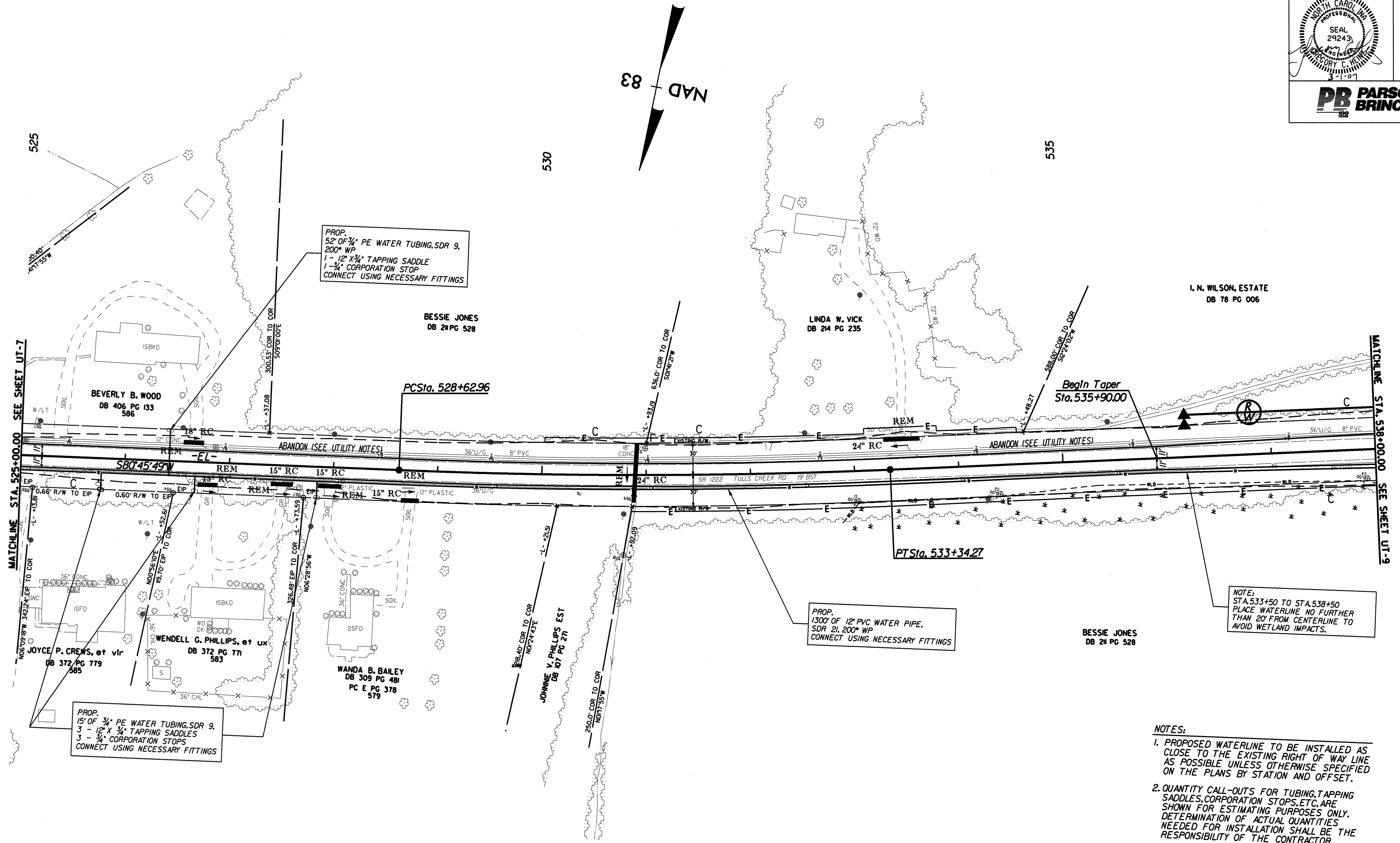


PROP.  
74' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
200" WP  
CONNECT USING NECESSARY FITTINGS

FRANK H. HUGHES, et ux  
DB 284 PG 451  
595  
PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
5' OF 6" DI WATER PIPE, PC 350  
1 - 12" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
CONNECT USING NECESSARY FITTINGS  
(SEE DETAIL)

- NOTES:
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
52' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

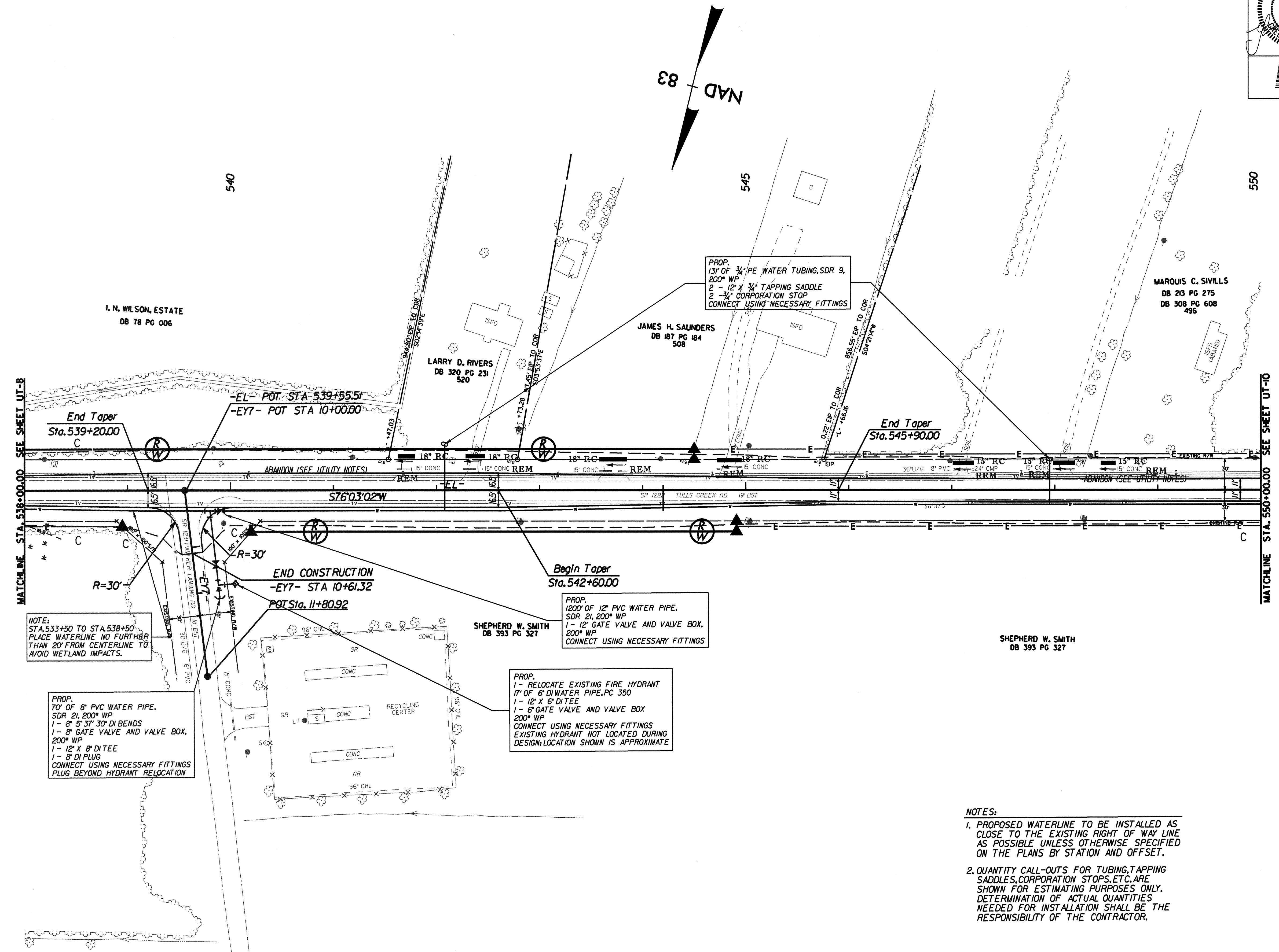
PROP.  
15' OF 3/4" PE WATER TUBING, SDR 9,  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1300' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

NOTE:  
STA. 533+50 TO STA. 538+50  
PLACE WATERLINE NO FURTHER  
THAN 20' FROM CENTERLINE TO  
AVOID WETLAND IMPACTS.

- NOTES:
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.





NOTE:  
STA. 533+50 TO STA. 538+50  
PLACE WATERLINE NO FURTHER  
THAN 20' FROM CENTERLINE TO  
AVOID WETLAND IMPACTS.

PROP.  
70' OF 8" PVC WATER PIPE,  
SDR 21, 200\* WP  
1 - 8" 5' 37" 30" DI BENDS  
1 - 8" GATE VALVE AND VALVE BOX,  
200\* WP  
1 - 12" X 8" DI TEE  
1 - 8" DI PLUG  
CONNECT USING NECESSARY FITTINGS  
PLUG BEYOND HYDRANT RELOCATION

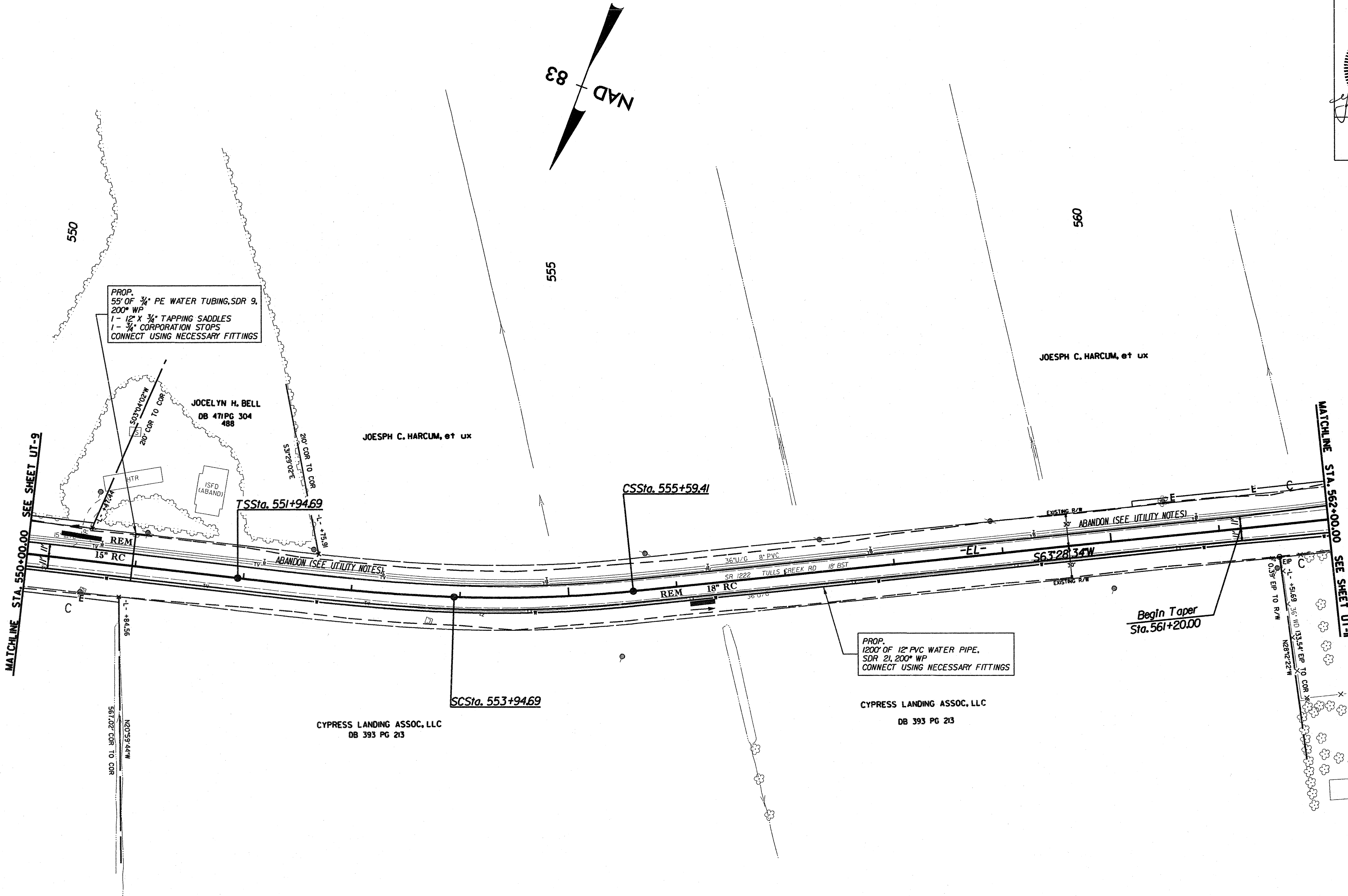
SHEPHERD W. SMITH  
DB 393 PG 327

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
17' OF 6" DI WATER PIPE, PC 350  
1 - 12" X 6" DI TEE  
1 - 6" GATE VALVE AND VALVE BOX  
200\* WP  
CONNECT USING NECESSARY FITTINGS  
EXISTING HYDRANT NOT LOCATED DURING  
DESIGN; LOCATION SHOWN IS APPROXIMATE

PROP.  
131' OF 3/4" PE WATER TUBING, SDR 9,  
200\* WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200\* WP  
1 - 12" GATE VALVE AND VALVE BOX,  
200\* WP  
CONNECT USING NECESSARY FITTINGS

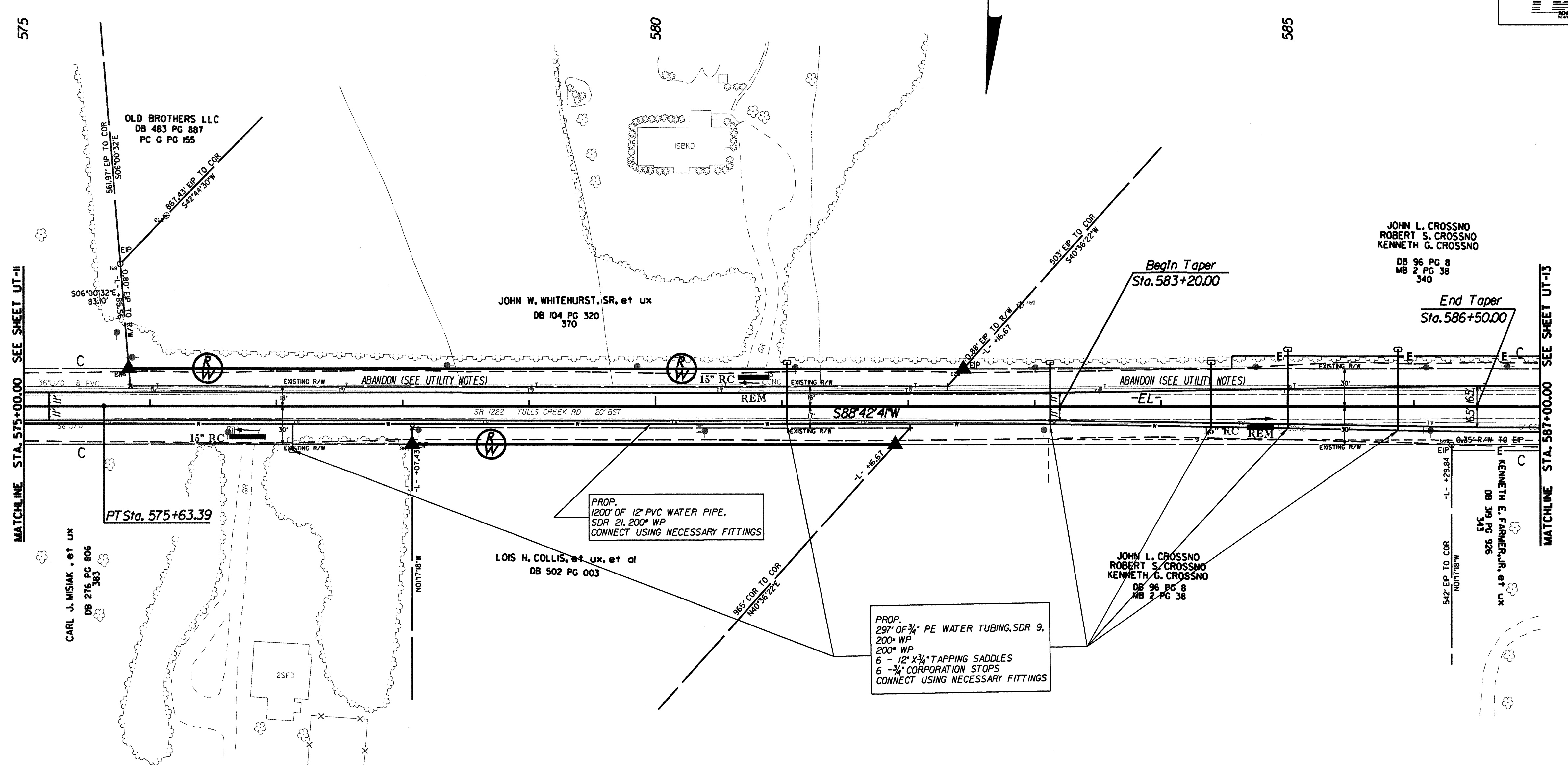
- NOTES:
- PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  - QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
55' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
1 - 12" X 3/4" TAPPING SADDLES  
1 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

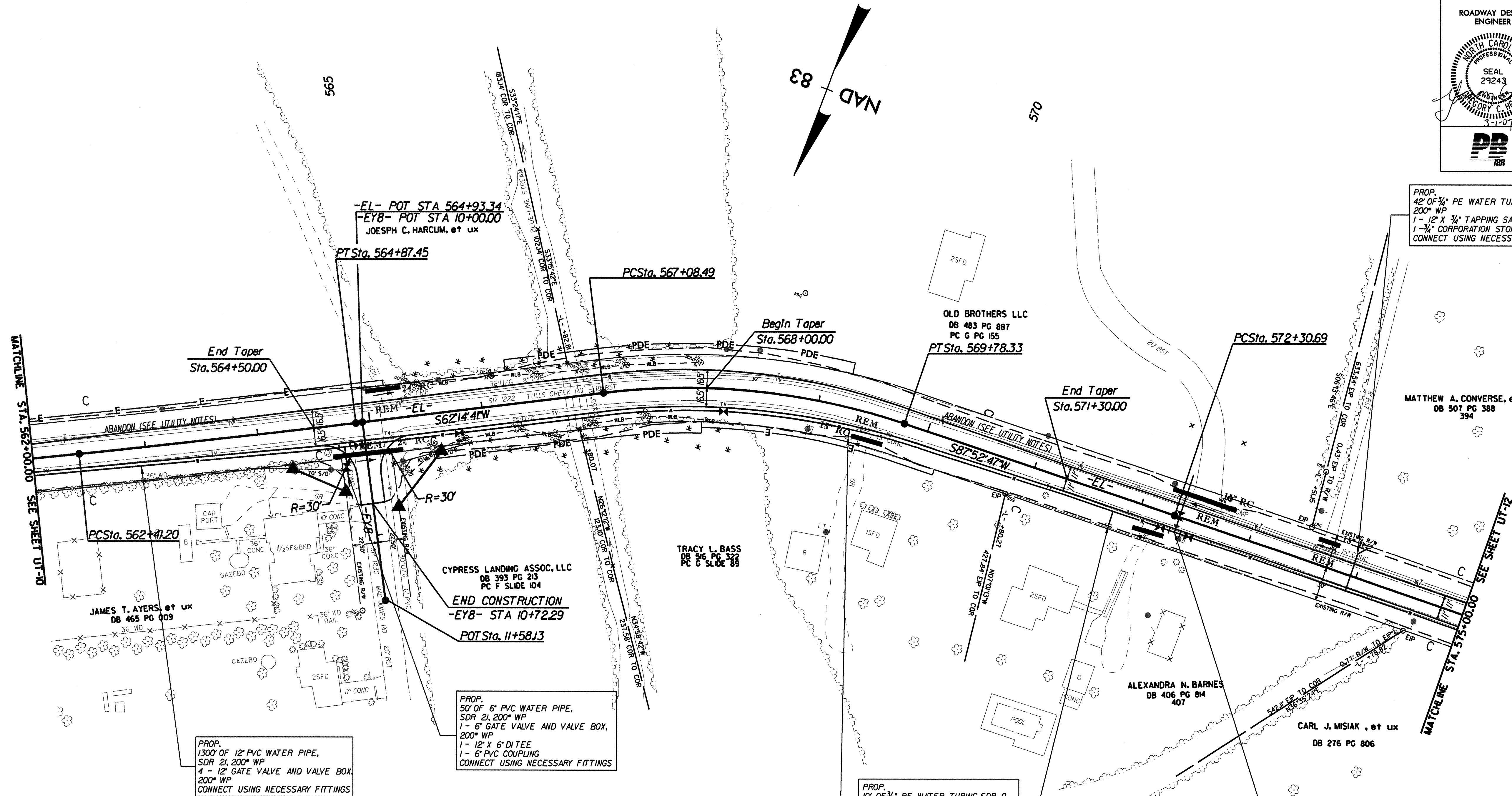
PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



**NOTES:**

- PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
- QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
42' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

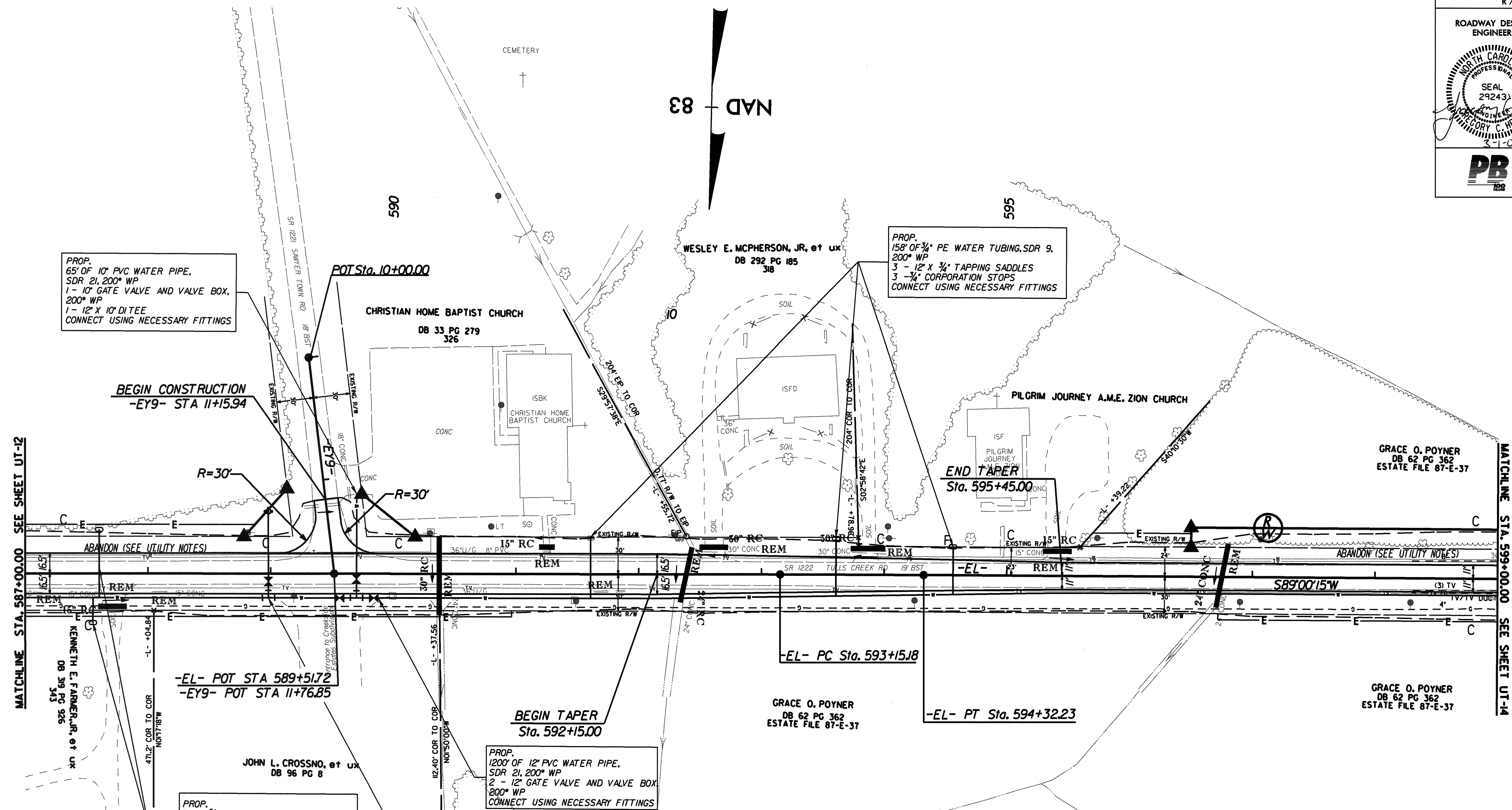
PROP.  
1300' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
4 - 12" GATE VALVE AND VALVE BOX,  
200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
50' OF 6" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 6" DITEE  
1 - 6" PVC COUPLING  
CONNECT USING NECESSARY FITTINGS

PROP.  
10' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
64' OF 6" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 6" DITEE  
2 - 12" VALVE AND VALVE BOXE  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
65' OF 10" PVC WATER PIPE,  
SDR 21, 200' WP  
1 - 10" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 10" DITEE  
CONNECT USING NECESSARY FITTINGS

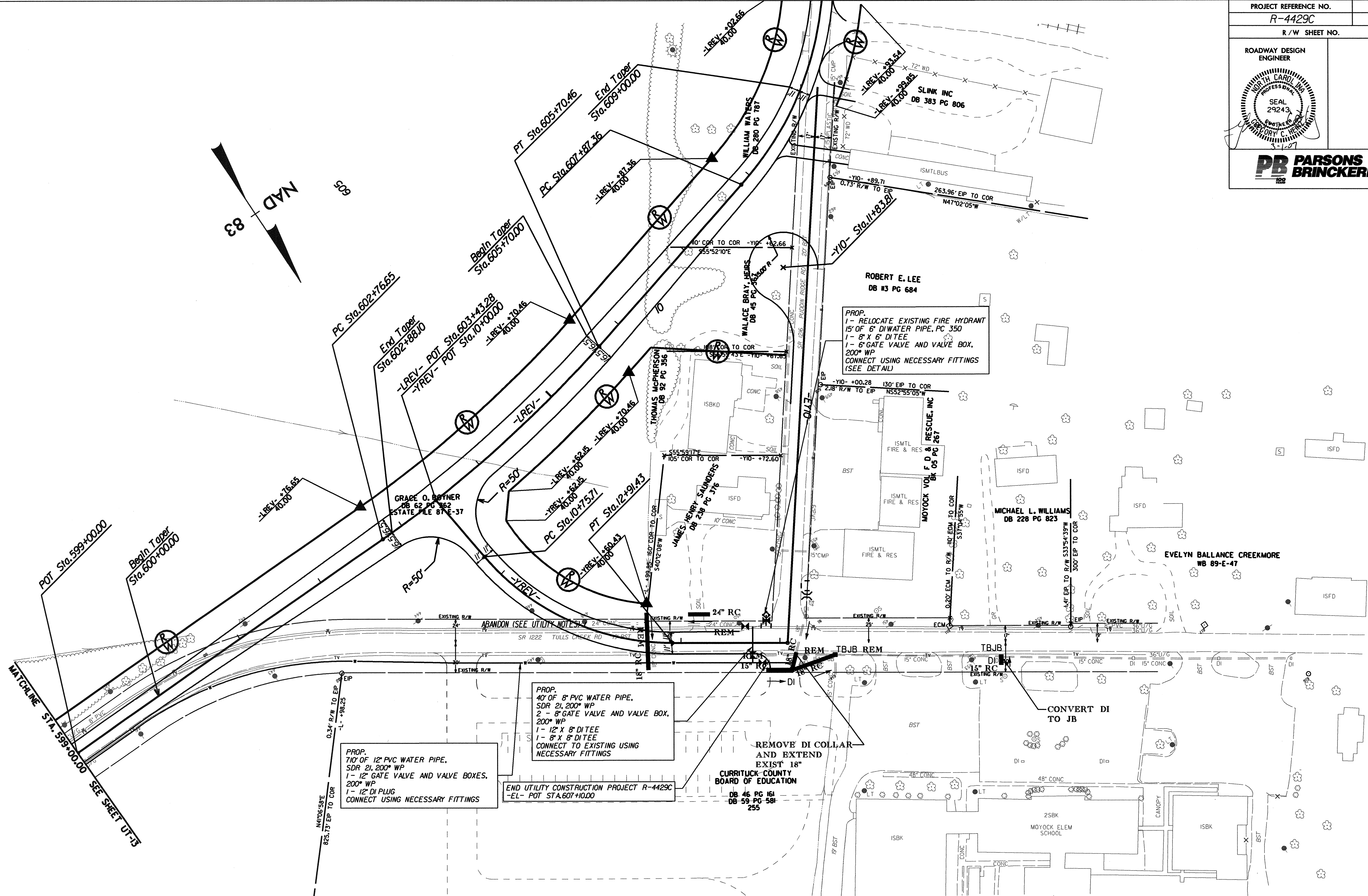
PROP.  
158' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
76' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLES  
2 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
2 - 12" GATE VALVE AND VALVE BOX  
200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1 - NEW FIRE HYDRANT  
76" OF 6" DI WATER PIPE, PC 350  
1 - 12" X 6" DITEE  
1 - 8" GATE VALVE AND VALVE BOX  
200" WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
710' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
1 - 12" GATE VALVE AND VALVE BOXES,  
200' WP  
1 - 12" DI PLUG  
CONNECT USING NECESSARY FITTINGS

PROP.  
40' OF 8" PVC WATER PIPE,  
SDR 21, 200' WP  
2 - 8" GATE VALVE AND VALVE BOX,  
200' WP  
1 - 12" X 8" DITEE  
1 - 8" X 8" DITEE  
CONNECT TO EXISTING USING  
NECESSARY FITTINGS

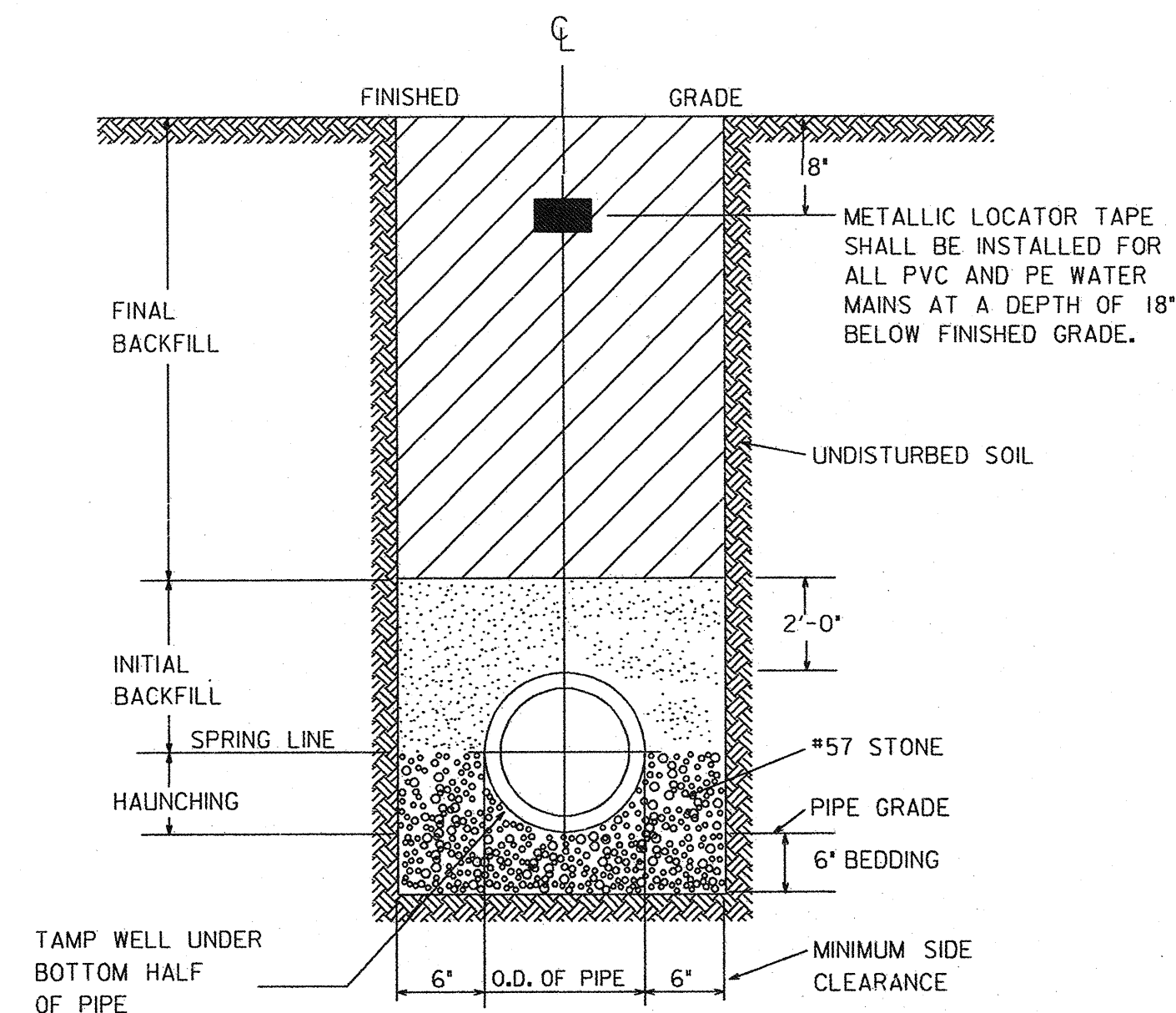
END UTILITY CONSTRUCTION PROJECT R-4429C  
-EL- POT STA. 607+10.00

REMOVE DI COLLAR  
AND EXTEND  
EXIST 18"  
CURRITUCK COUNTY  
BOARD OF EDUCATION  
DB 46 PG 161  
DB 59 PG 581  
255

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
15' OF 6" DI WATER PIPE, PC 350  
1 - 8" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX,  
200' WP  
CONNECT USING NECESSARY FITTINGS  
(SEE DETAIL)

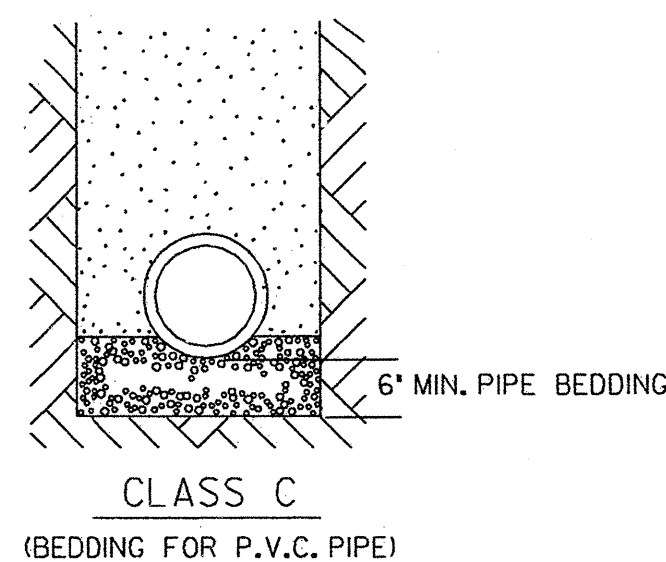
MATCHLINE STA. 599+00.00  
SEE SHEET UT-13

- NOTES:**
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28
6	30
8	32
10	34
12	36

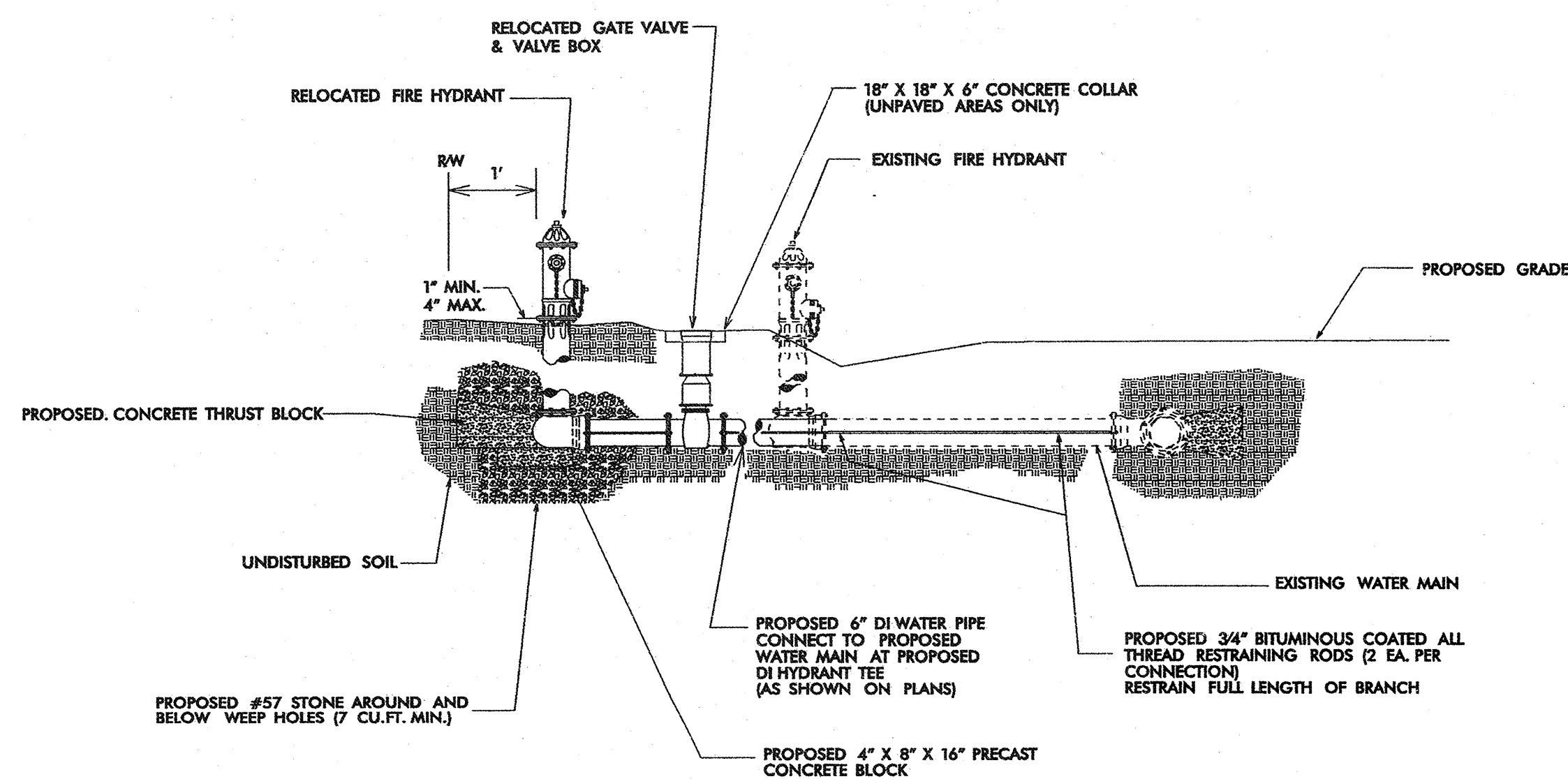


- GENERAL NOTES:
- NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
  - BACKFILL SHALL BE TAMPED IN 6" LIFTS (MAX).
  - ALL BACKFILL MATERIAL SHALL BE NATIVE MATERIAL.
  - FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND THE BRACING.
  - PIPE SHALL BE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE.
  - ALL BACKFILL MATERIAL SHALL BE FREE OF FOREIGN MATERIAL, FROZEN EARTH, AND ORGANICS.
  - COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE NCDOT.

**TRENCH AND BACKFILLING DETAILS**  
N.T.S.

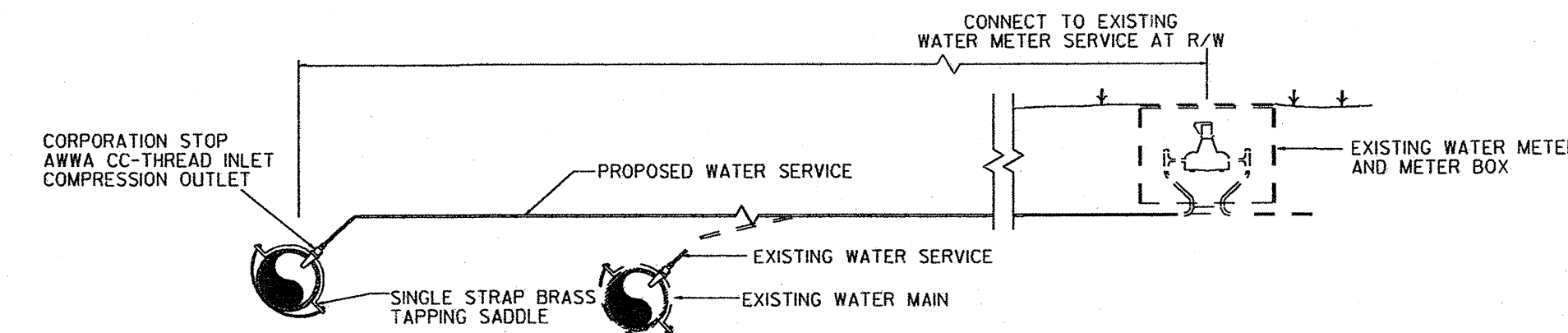
**GENERAL NOTES PERTAINING TO WATERWORKS CONSTRUCTION**

- ALL WATERWORKS RELATED CONSTRUCTION SHALL COMPLY WITH APPLICABLE NCDOT, CURRITUCK COUNTY, AND NCDENR (DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION) STANDARDS.
- MINIMUM COVER FROM FINISHED GRADE FOR ALL WATER LINES SHALL BE 3'.
- UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. NCDOT WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR THE COMPLETENESS OF UTILITY INFORMATION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY INFORMATION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INTERRUPTION OF WATER SERVICE WITH AFFECTED BUSINESSES AND RESIDENTS AT LEAST 48 HOURS PRIOR TO THE PLANNED INTERRUPTION OF SERVICE.
- CONTRACTOR SHALL PHASE WATERWORKS CONSTRUCTION TO MINIMIZE THE FREQUENCY AND DURATION OF WATER SERVICE INTERRUPTIONS.
- CONTRACTOR SHALL PERFORM WATER LINE ACCEPTANCE TESTING IN ACCORDANCE WITH NCDOT, CURRITUCK COUNTY, AND NCDENR (DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION) REQUIREMENTS.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING WATER SERVICES AND ENSURING THAT ALL EXISTING WATER SERVICES WITHIN THE LIMITS OF THE PROPOSED WATER MAIN RELOCATION, ARE RECONNECTED TO THE NEW NEW WATER MAIN.
- CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OF THOSE OF HIS AGENTS. CONTRACTOR SHALL HOLD THE NCDOT HARMLESS FOR ANY THIRD PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS.
- CONTRACTOR SHALL ADJUST VALVE BOXES, MANHOLES, AND OTHER UTILITIES TO THE FINISHED GRADE AS NECESSARY.
- EXISTING WATERWORKS THAT ARE REMOVED FROM SERVICE SHALL BE PLUGGED AND ABANDONED IN PLACE.
- THE CONTRACTOR SHALL NOTE THAT GRAPHICAL REPRESENTATIONS OF VALVE, TEE, HYDRANT, METER, ETC. LOCATIONS SHOWN IN PLANS ARE APPROXIMATE ONLY. WHEN POSSIBLE, CARE SHOULD BE TAKEN TO AVOID PLACING VALVES WITHIN PAVEMENT AREAS; ADDITIONALLY FIRE HYDRANTS SHALL BE PLACED ONE FOOT INSIDE THE AVAILABLE RIGHT-OF-WAY AS NEAR TO THE LOCATION DEPICTED IN THE PLANS AS IS FEASIBLE, AND WATER METERS SHALL BE PLACED INSIDE AVAILABLE RIGHT-OF-WAY OR EASEMENTS.
- EXISTING WATER METERS SHALL BE RELOCATED AS SHOWN IN THE PLANS WHERE FEASIBLE; OTHERWISE, NEW METERS SHALL BE INSTALLED.



- GENERAL NOTES:
- FIRE HYDRANTS SHALL BE PLACED A DISTANCE OF 1 FEET INSIDE OF RW AND 6 FEET BACK OF DITCH IN ROADWAY SECTIONS. PUMPER NOZZLE SHALL BE PERPENDICULAR TO ROADWAY.
  - ALL CONCRETE SHALL BE CLASS "B".
  - HYDRANT BRANCH LINE SHALL HAVE THE SAME COVER AS THE MAIN (36" MINIMUM).

**FIRE HYDRANT RELOCATION DETAIL**  
N.T.S.



- GENERAL NOTES:
- NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
  - THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 3' COVER BELOW FINISHED GRADE.

**TYPICAL SERVICE RECONNECT**  
N.T.S.

BASED ON TEST PRESSURE OF 200 P.S.I.

**HORIZONTAL RESTRAINT**  
(ALL AREAS GIVEN ARE IN SQUARE FEET)

PIPE SIZE	DEGREE OF BEND	LBS. STATIC THRUST *	ALLOWABLE SOIL BEARING (PSF)							
			1000	2000	3000	4000	5000	6000	7000	8000
4"	11/4"	616	1	1	1	1	1	1	1	1
	22 1/2"	1,226	1	1	1	1	1	1	1	1
	45°	2,405	2	2	2	2	2	2	2	2
	90°	4,144	4	4	4	4	4	4	4	4
6"	TEE/PLUG	3,143	3	3	3	3	3	3	3	3
	11/4"	1,385	2	2	2	2	2	2	2	2
	22 1/2"	2,758	2	2	2	2	2	2	2	2
	45°	5,409	4	4	4	4	4	4	4	4
8"	90°	9,999	10	5	3	3	2	2	2	2
	TEE/PLUG	7,068	7	4	3	2	2	2	2	2
	11/4"	2,424	3	3	3	3	3	3	3	3
	22 1/2"	4,904	5	3	2	2	2	2	2	2
10"	45°	9,619	10	5	3	2	2	2	2	2
	90°	17,773	18	8	4	4	3	3	2	2
	TEE/PLUG	12,569	13	8	4	3	3	2	2	2
	11/4"	3,846	4	2	2	2	2	2	2	2
12"	22 1/2"	7,661	8	4	3	2	2	2	2	2
	45°	15,328	15	8	4	3	3	3	2	2
	90°	27,168	28	14	9	7	6	5	4	3
	TEE/PLUG	19,635	20	10	7	5	4	3	3	2
14"	11/4"	5,543	6	3	2	2	2	2	2	2
	22 1/2"	11,032	11	6	4	3	2	2	2	2
	45°	21,641	22	11	5	4	4	4	3	3
	90°	39,987	40	20	13	10	8	7	6	5
16"	TEE/PLUG	28,274	28	14	9	7	6	5	4	4
	11/4"	7,544	8	4	3	2	2	2	2	2
	22 1/2"	15,016	15	8	5	4	3	3	2	2
	45°	29,455	29	15	10	7	6	5	4	4
16"	90°	54,426	54	27	18	14	11	9	8	7
	TEE/PLUG	38,485	38	19	13	10	8	6	5	5
	11/4"	9,854	10	5	3	3	2	2	2	2
	22 1/2"	19,612	20	10	7	5	4	3	3	3
16"	45°	38,471	38	17	13	10	8	6	5	5
	90°	71,085	71	36	24	18	14	12	10	9
16"	TEE/PLUG	50,265	50	25	17	13	10	8	7	6

\* INCLUDES 1.25 SAFETY FACTOR

GENERAL NOTES:

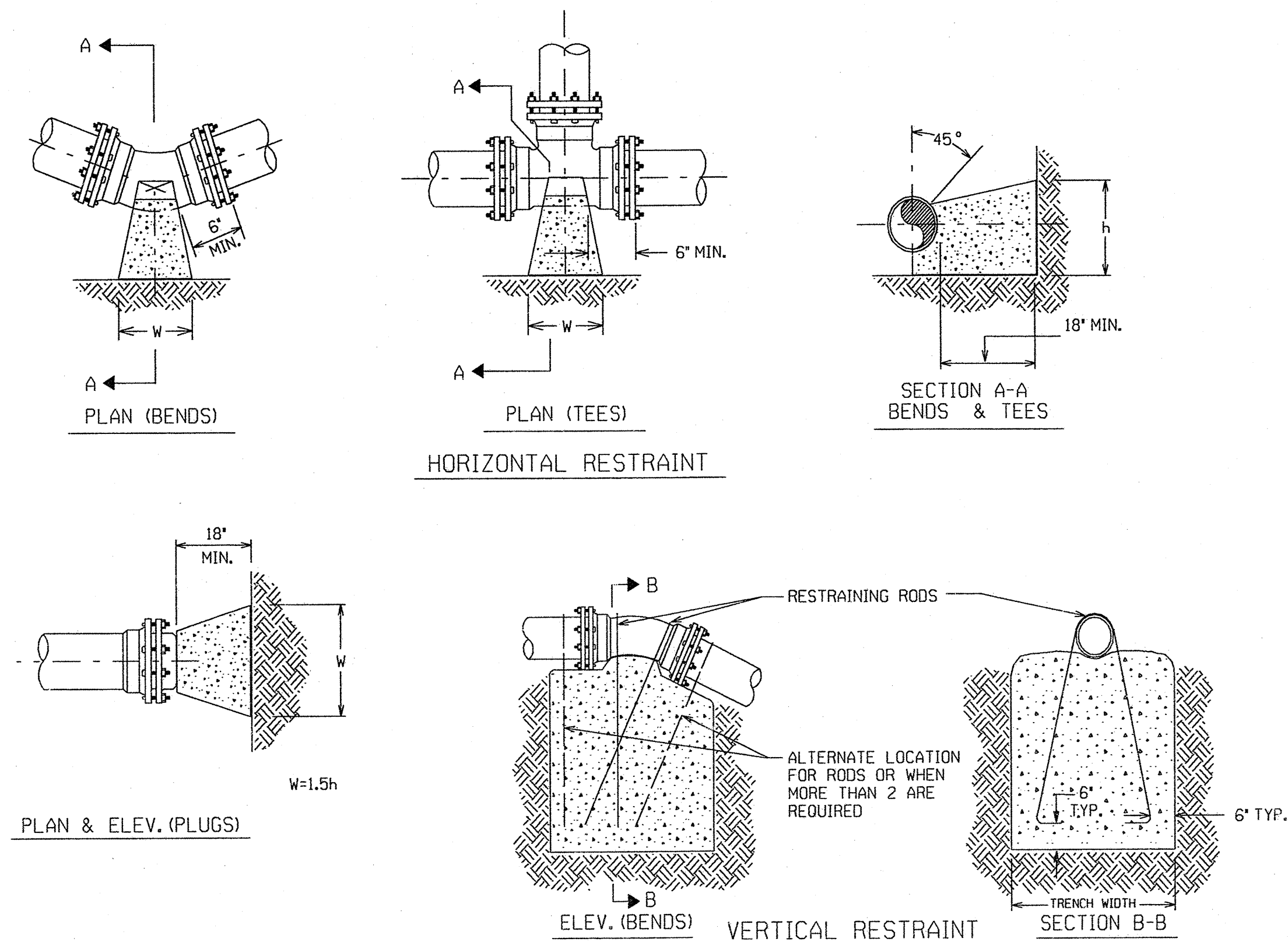
1. CONCRETE SHALL BE CLASS "B".
2. CONCRETE SHALL NOT CONTACT BOLTS ENDS OF MECHANICAL JOINT FITTINGS.
3. ALLOWABLE SOIL BEARING SHALL BE DETERMINED BY THE CONTRACTOR.

**VERTICAL RESTRAINT**

(ALL VOLUMES GIVEN ARE IN CUBIC YARDS)\*\*

PIPE SIZE	RESTRAINING RODS NO. REQ'D	DIA.	DEGREE OF BEND		
			11/4°	22 1/2°	45°
4"	2	1/2"	0.25	0.50	0.75
6"	2	1/2"	0.50	1.0	1.75
8"	2	5/8"	0.75	1.50	3.0
10"	2	3/4"	1.25	2.25	4.50
12"	2	7/8"	1.75	3.25	6.50
14"	4	5/8"	2.25	4.50	8.75
16"	4	3/4"	3.0	6.0	11.50

\*\*INCLUDES 1.50 SAFETY FACTOR



**THRUST RESTRAINT FOR WATER MAINS**  
N.T.S.

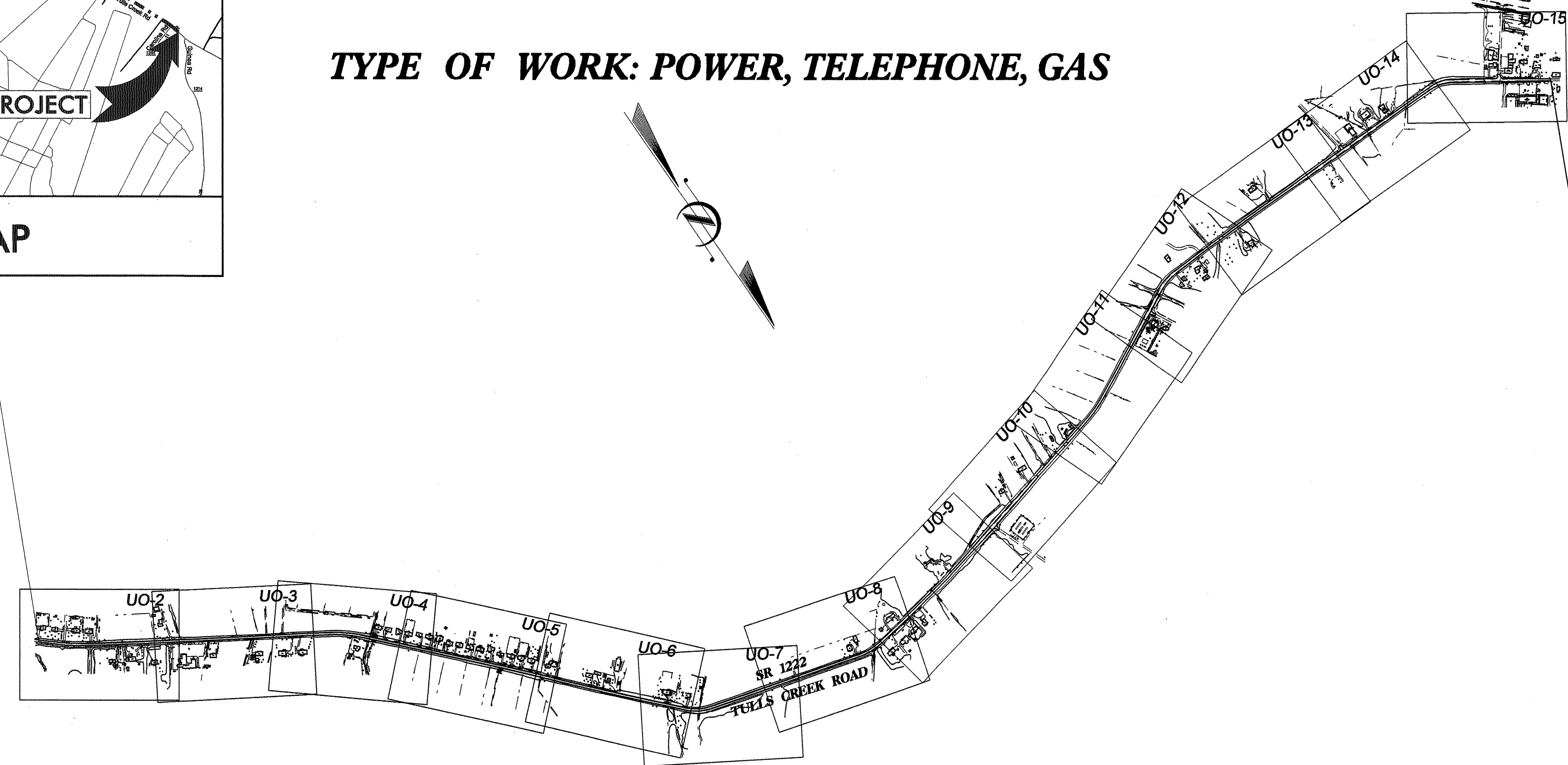
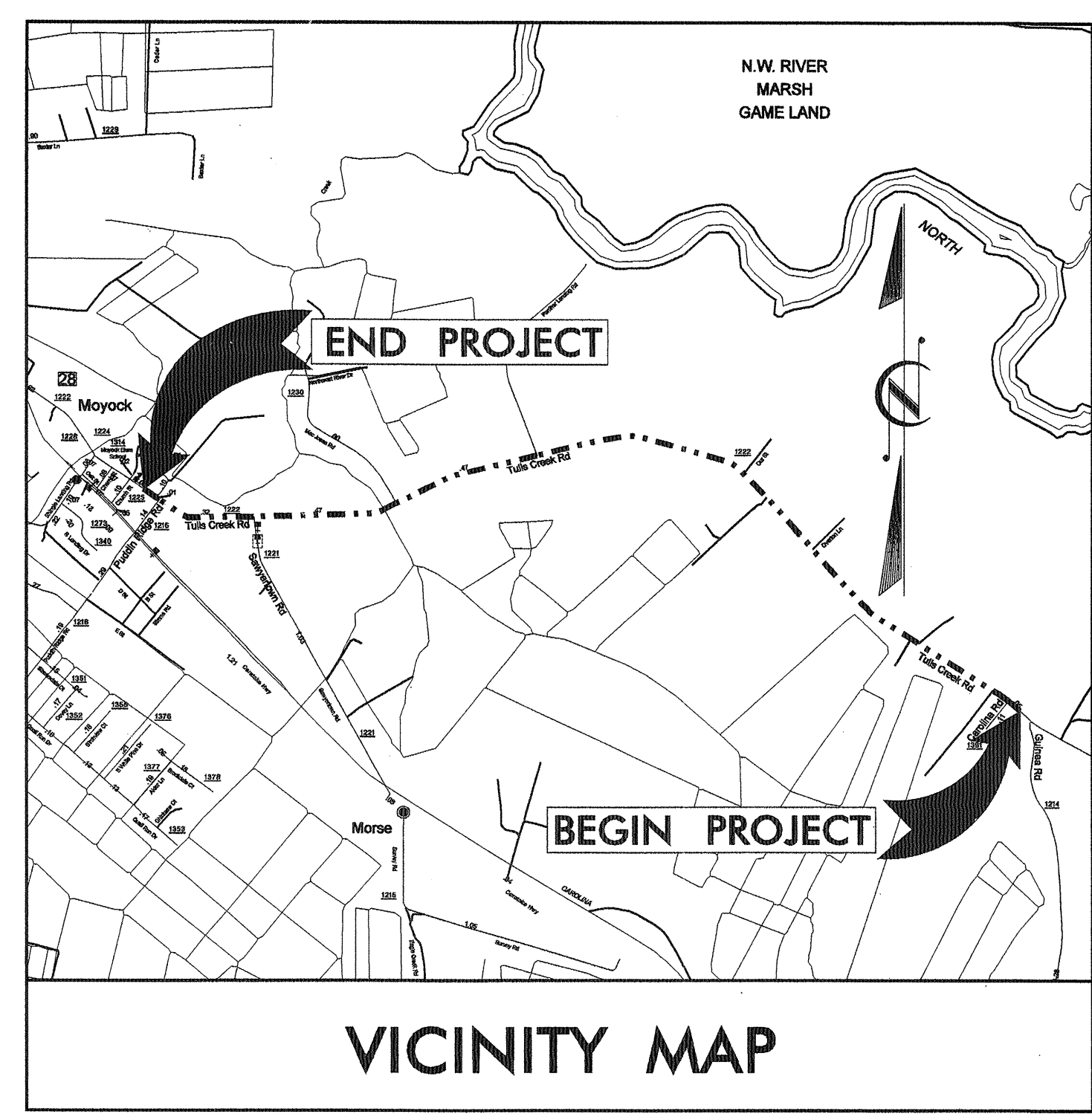


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS  
CURRITUCK COUNTY**

**LOCATION: SR 1222 (TULLS CREEK ROAD)  
FROM SR 1214 (GUINEA ROAD) TO SR 1216 (PUDDIN RIDGE ROAD)**

**TYPE OF WORK: POWER, TELEPHONE, GAS**

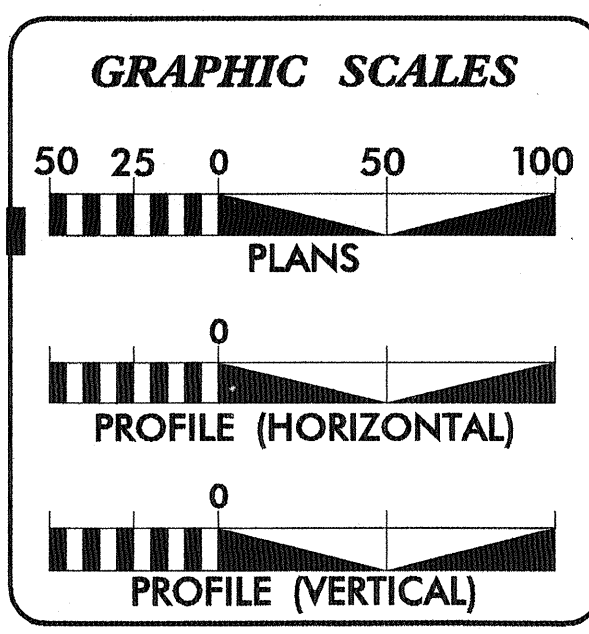


END STATE PROJECT 34622.3.5  
-L- POT Sta. 611+40.00

BEGIN STATE PROJECT 34622.3.5  
-L- POT Sta. 441+19.51

TIP PROJECT: R-4429C

PROJECT: 34622.3.5

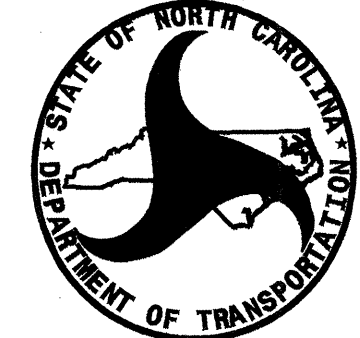


**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-15	UTILITIES BY OTHERS PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

- DOMINION POWER
- GT&T TELEPHONE
- MIDIA-COM
- PIEDMONT NATURAL GAS



PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
DESIGN SERVICES  
UTILITY SECTION**

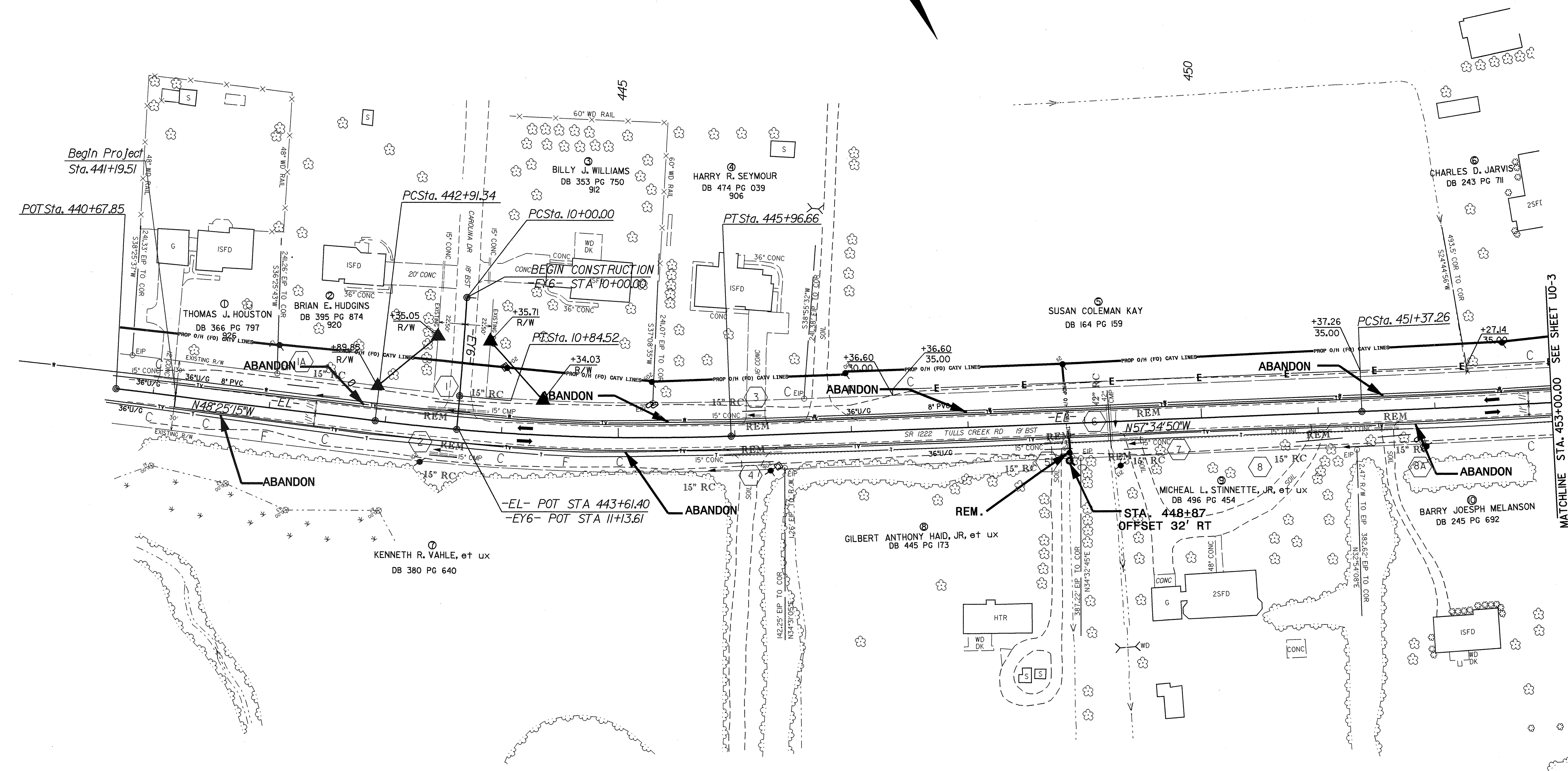
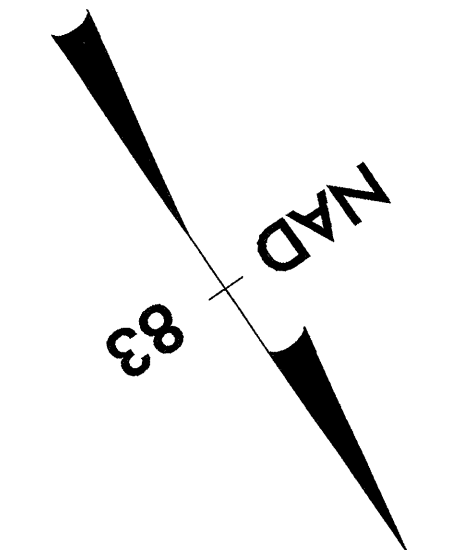
1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 250-4128  
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER  
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER  
Ali Kouchehi UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-	-EL-	-EY6-
PI Sta 444+44.32	PI Sta 452+62.27	PI Sta 10+42.26
$\Delta = 9^{\circ} 09' 34.9" (LT)$	$\Delta = 0^{\circ} 56' 42.2" (LT)$	$\Delta = 1^{\circ} 41' 25" (RT)$
D = 3' 00' 00.0"	D = 2' 22' 40.9"	D = 2' 00' 00.0"
L = 305.32	L = 250.00	L = 84.52
T = 152.99'	T = 125.00'	T = 42.26'
R = 1,909.86'	R = 15,156.62'	R = 2,864.79'



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "HYDRANT" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 1010625.899 (ft) EASTING: 2860510.122 (ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0001084 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HYDRANT" TO L- STATION 440+67.85 IS N 64°46' 07" W 17,017.0403 FT. ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

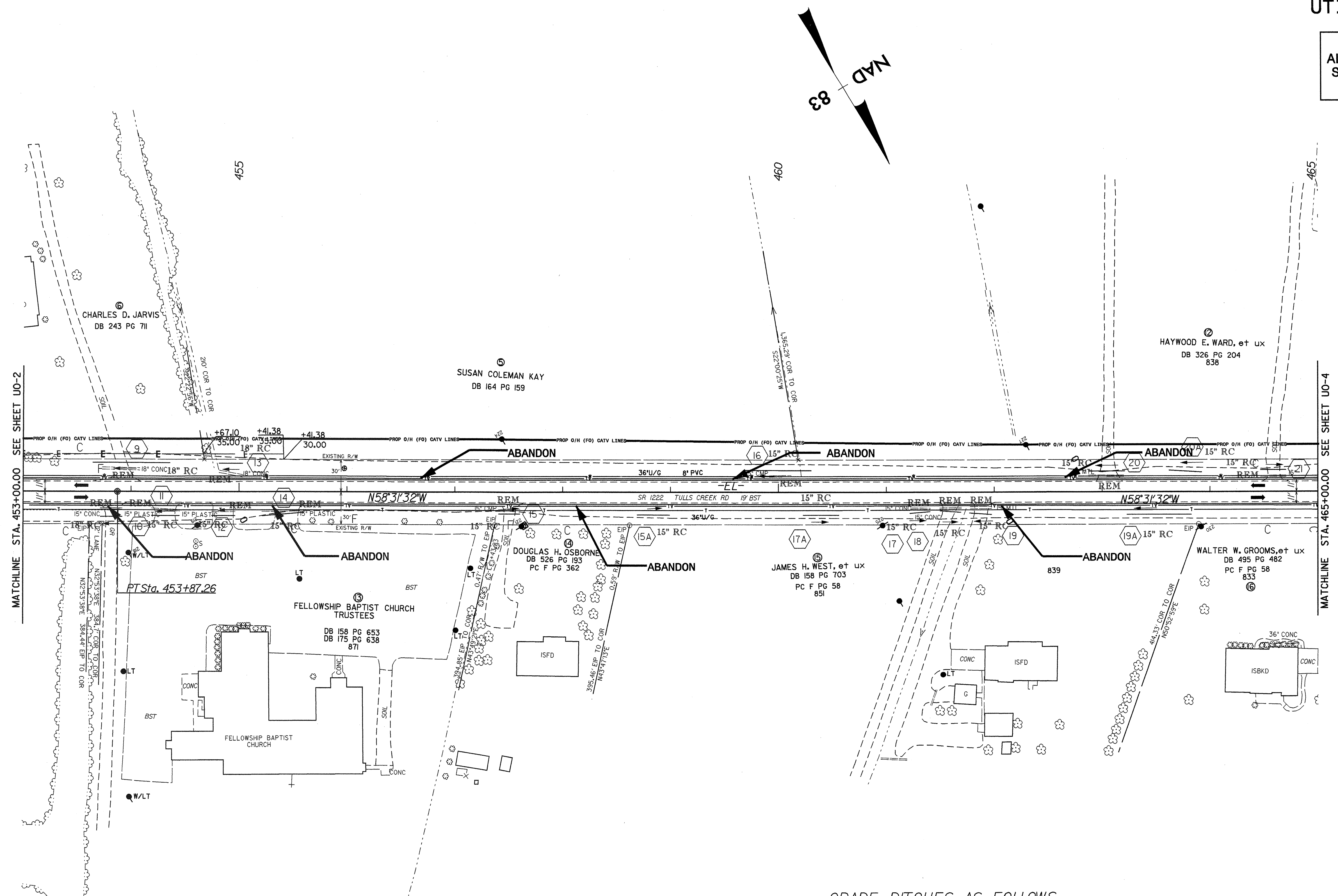
GRADE DITCHES AS FOLLOWS:

- 441+20 (TIE TO EXIST.) ← WATER FLOW ← 446+50 (GRADE BREAK) LEFT SIDE
- 441+20 (TIE TO EXIST.) ← WATER FLOW ← 448+60 (GRADE BREAK) RIGHT SIDE
- 446+50 (GRADE BREAK) → WATER FLOW → 449+20 (CROSS LINE) LEFT SIDE
- 448+60 (GRADE BREAK) → WATER FLOW → 449+20 (OUTLET DITCH) RIGHT SIDE
- 449+20 (CROSS LINE) ← WATER FLOW ← 459+00 (GRADE BREAK) LEFT SIDE
- 449+20 (OUTLET DITCH) ← WATER FLOW ← 455+45 (GRADE BREAK) RIGHT SIDE

5/14/99  
28-FEB-2007 14:51  
\\s01\proj\4429c\_rdy\_psh\_04\_uo2.dgn

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



GRADE DITCHES AS FOLLOWS:

- 449+20 (CROSS LINE) ← WATER FLOW ← 459+00 (GRADE BREAK) LEFT SIDE
- 449+20 (OUTLET DITCH) ← WATER FLOW ← 455+45 (OUTLET DITCH) RIGHT SIDE
- 455+45 (GRADE BREAK) → WATER FLOW → 461+75 (OUTLET DITCH) RIGHT SIDE
- 459+00 (GRADE BREAK) → WATER FLOW → 472+95 (CROSS LINE) LEFT SIDE
- 461+75 (OUTLET DITCH) ← WATER FLOW ← 464+00 (GRADE BREAK) RIGHT SIDE
- 464+00 (GRADE BREAK) → WATER FLOW → 472+95 (OUTLET DITCH) RIGHT SIDE

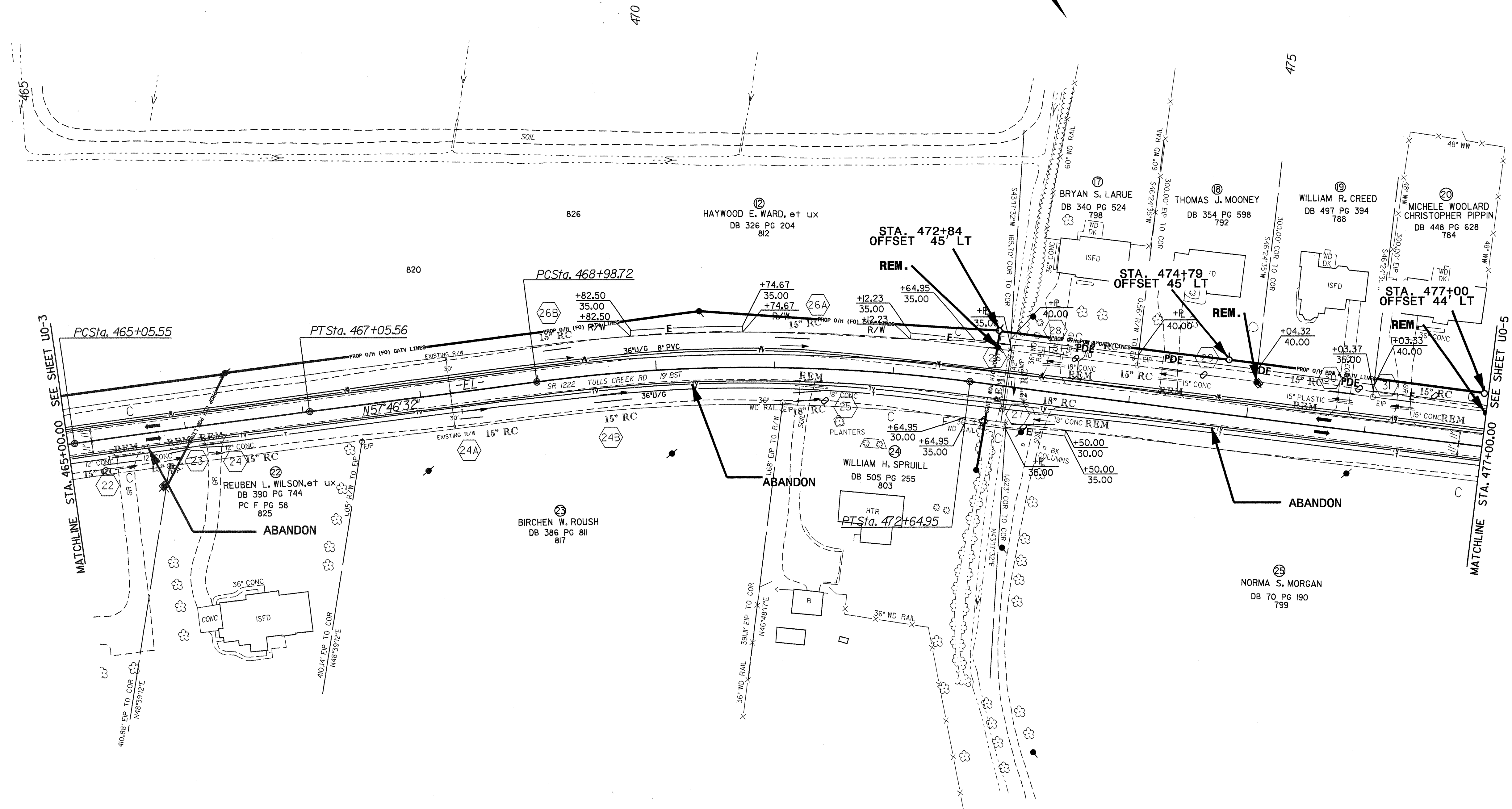
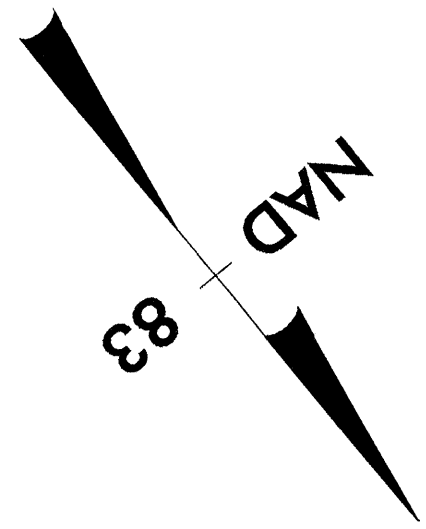
5/14/95

28-FEB-2007 14:51  
\\u:\projects\4429c\psh\05\_uo3.dgn  
\$\$\$\$\$USERNAME\$\$\$\$\$

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-	-EL-
PI Sta 466+05.56	PI Sta 470+82.84
$\Delta = 0^{\circ} 44' 59.8''$ (RT)	$\Delta = 14^{\circ} 38' 58.0''$ (RT)
D = 0' 22' 29.9"	D = 4' 00' 00.0"
L = 200.00'	L = 366.24'
T = 100.00'	T = 184.12'
R = 15,279.79'	R = 1,432.39'



GRADE DITCHES AS FOLLOWS:

- 464+00 (GRADE BREAK) → WATER FLOW → 472+95 (OUTLET DITCH) LEFT SIDE
- 459+00 (GRADE BREAK) → WATER FLOW → 472+95 (CROSS LINE) RIGHT SIDE
- 472+95 (OUTLET DITCH) ← WATER FLOW ← 475+00 (GRADE BREAK) RIGHT SIDE
- 472+95 (CROSS LINE) ← WATER FLOW ← 482+00 (GRADE BREAK) LEFT SIDE
- 475+00 (GRADE BREAK) → WATER FLOW → 489+70 (OUTLET DITCH) RIGHT SIDE

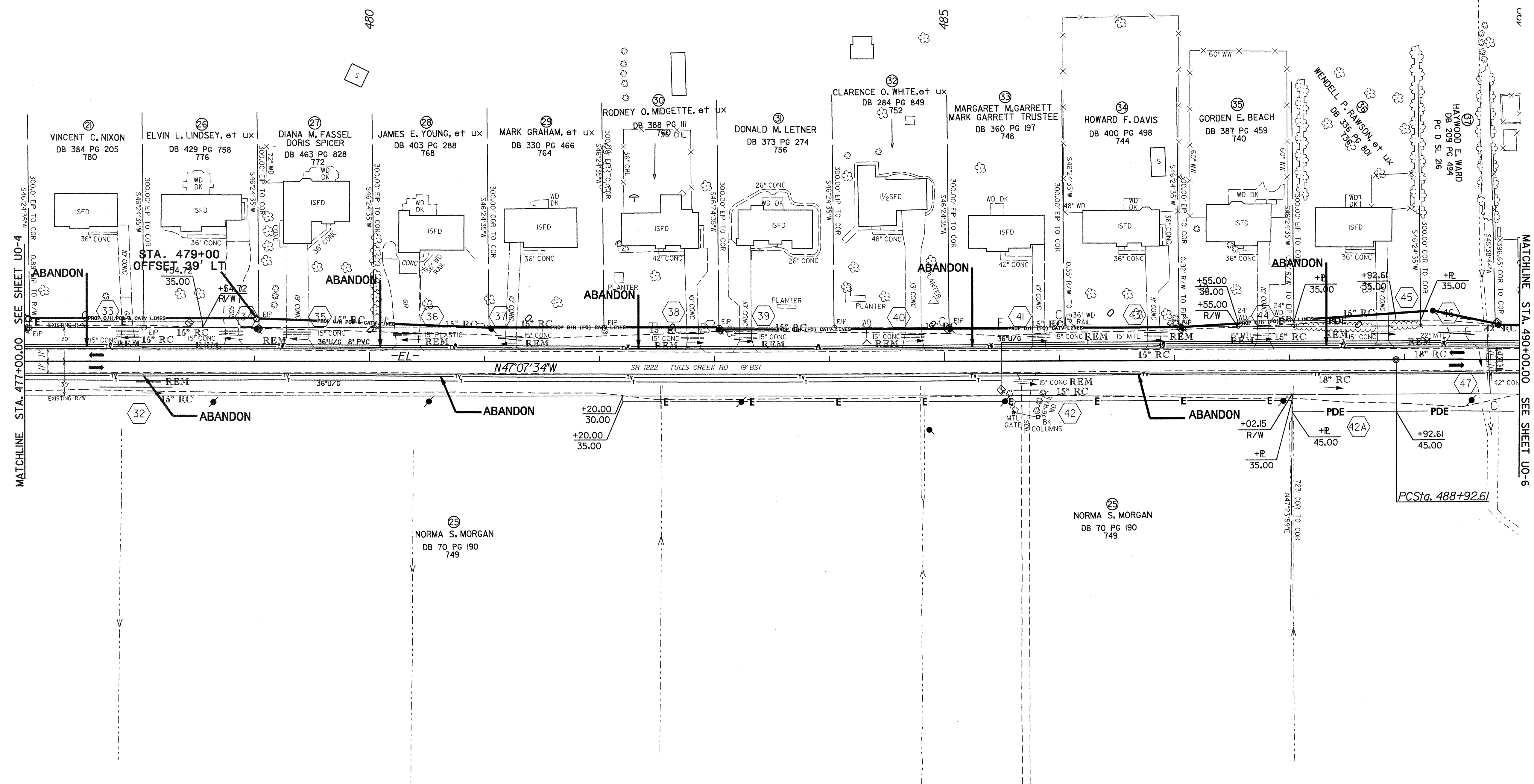
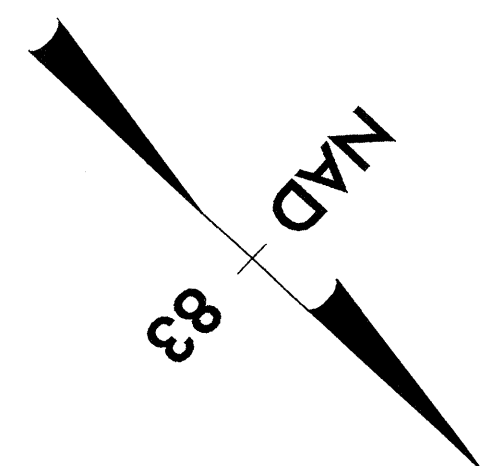
5/14/99

I:\MAP-2007\1339  
:\util\1339\1339.dwg  
:\4429c\_rdu\_psh\_06\_uo4.dgn

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-  
PI Sta. 489+95.14  
Δ = 0' 4" 00.6" (RT)  
D = 0' 20' 00.0"  
L = 205.05'  
T = 102.53'  
R = 17,888.73'



GRADE DITCHES AS FOLLOWS:

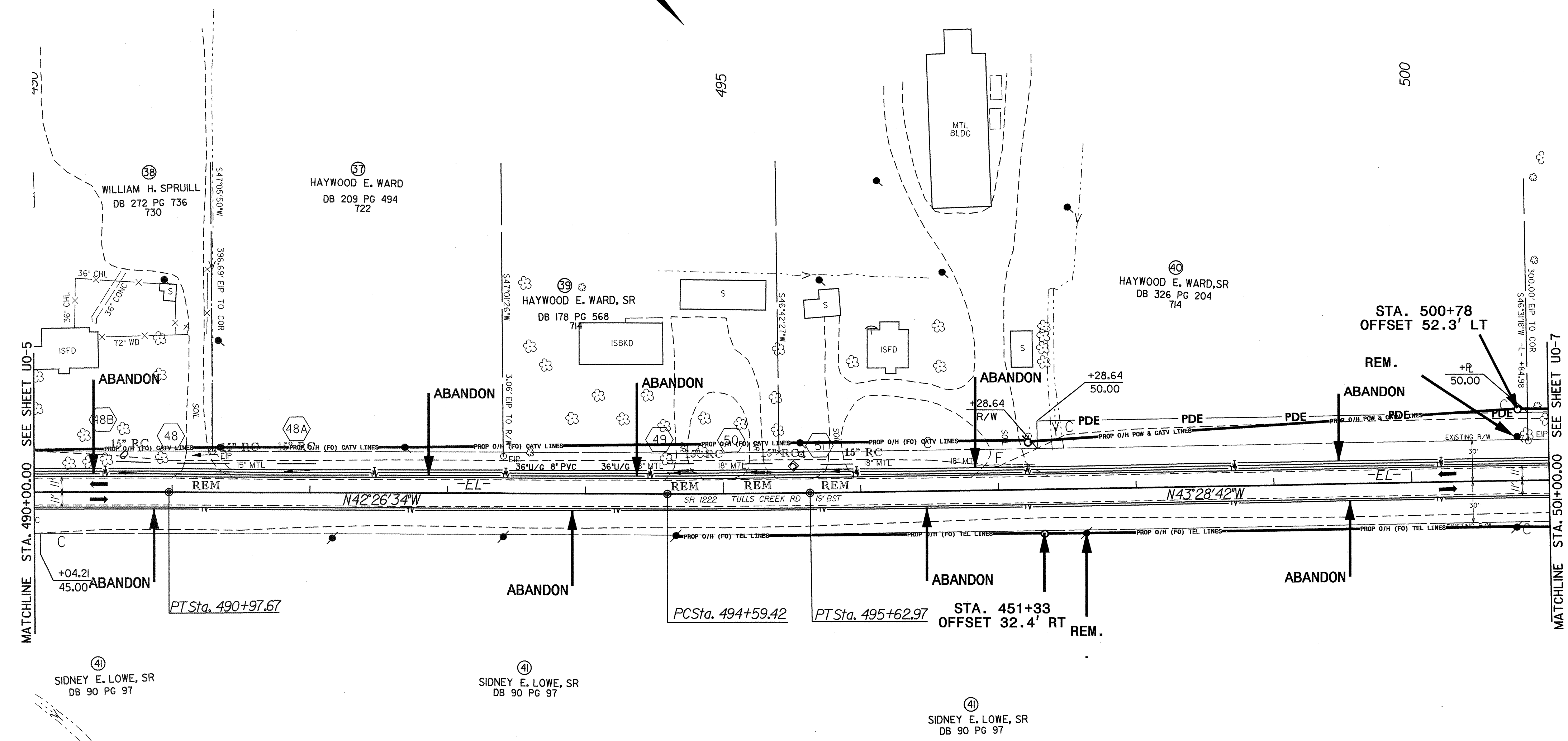
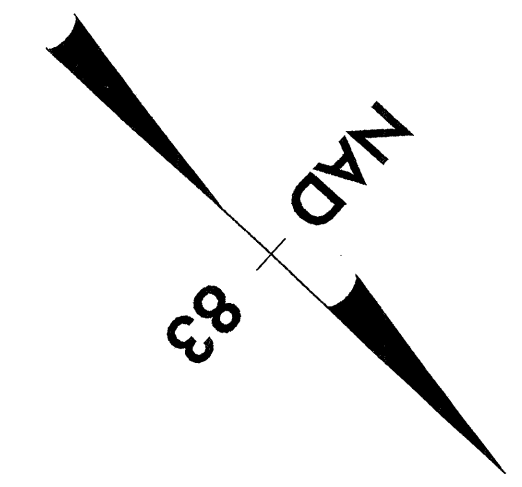
- 472+95 (CROSS LINE) ← WATER FLOW ← 482+00 (GRADE BREAK) LEFT SIDE
- 482+00 (GRADE BREAK) → WATER FLOW → 489+70 (CROSS LINE) LEFT SIDE
- 475+00 (GRADE BREAK) → WATER FLOW → 489+70 (OUTLET DITCH) RIGHT SIDE
- 489+70 (CROSS LINE) ← WATER FLOW ← 497+00 (GRADE BREAK) LEFT SIDE
- 489+70 (OUTLET DITCH) ← WATER FLOW ← 497+00 (GRADE BREAK) RIGHT SIDE

5/14/99  
28-FEB-2007 14:53  
I:\Utilities\CHOUT\PROJECTS\R-4429C\ROY\_PSH\_07\_uo5.dgn  
\$\$\$\$\$USERNM\$\$\$\$\$

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-  
PI Sta. 495+11.9  
 $\Delta = 1^{\circ}02'08.0"$  (LT)  
D = 100' 00.0"  
L = 103.56'  
T = 5.78'  
R = 5,729.58'



GRADE DITCHES AS FOLLOWS:

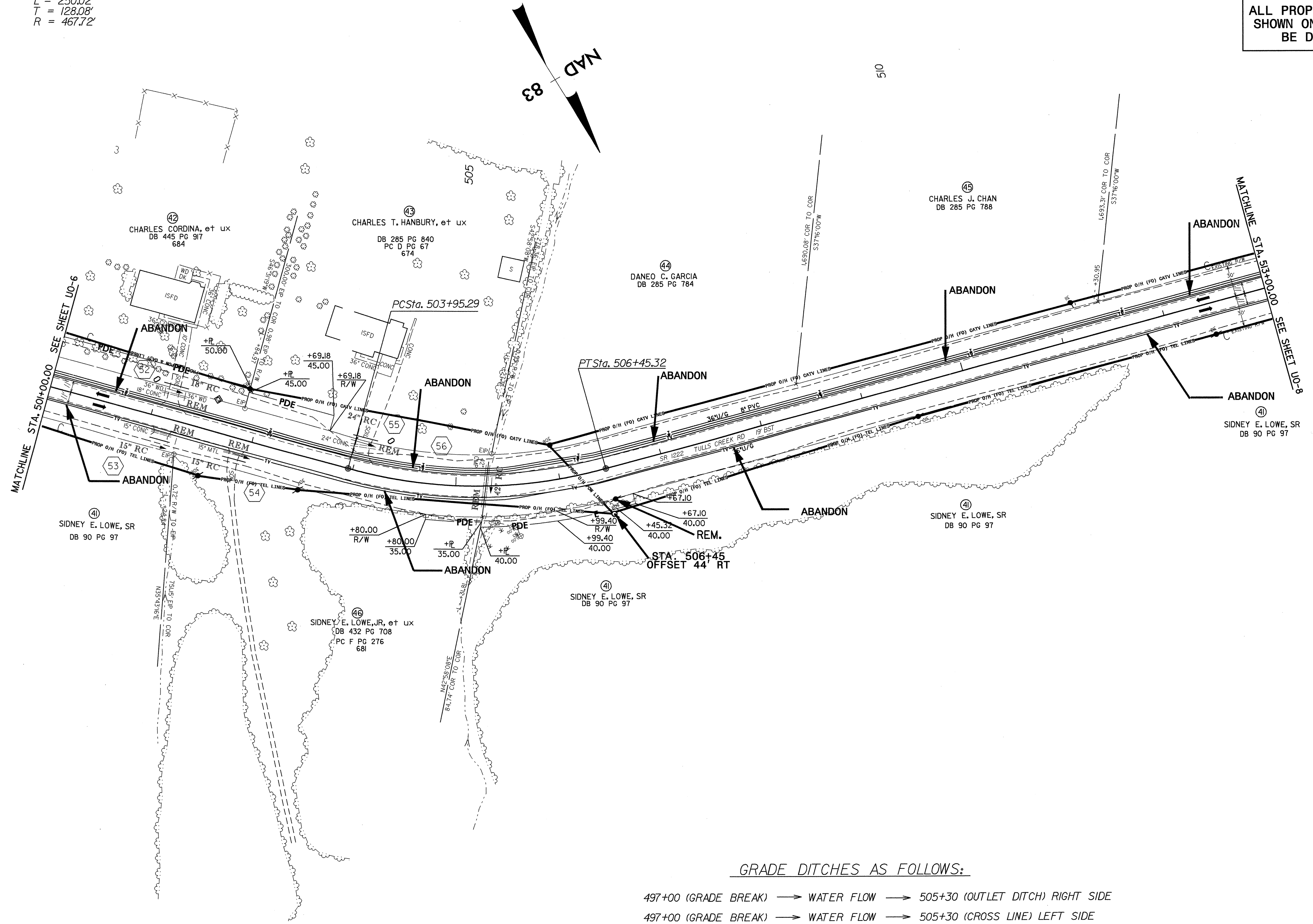
- 489+70 (CROSS LINE) ← WATER FLOW ← 496+50 (GRADE BREAK) LEFT SIDE
- 489+70 (OUTLET DITCH) ← WATER FLOW ← 497+50 (GRADE BREAK) RIGHT SIDE
- 497+00 (GRADE BREAK) → WATER FLOW → 505+30 (OUTLET DITCH) RIGHT SIDE
- 497+00 (GRADE BREAK) → WATER FLOW → 505+30 (CROSS LINE) LEFT SIDE

5/14/99  
 28-FEB-2007 14:53  
 \utilities\chris\4429C\_RDY\_PSH\_08\_uo6.dgn  
 USER:CHRIS

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-  
PI Sta. 505+23.37  
 $\Delta = 30^{\circ} 37' 40.3"$  (LT)  
D = 12' 15" 00.0"  
L = 250.02'  
T = 128.08'  
R = 467.72'



GRADE DITCHES AS FOLLOWS:

- 497+00 (GRADE BREAK) → WATER FLOW → 505+30 (OUTLET DITCH) RIGHT SIDE
- 497+00 (GRADE BREAK) → WATER FLOW → 505+30 (CROSS LINE) LEFT SIDE
- 505+30 (CROSS LINE) ← WATER FLOW ← 517+00 (GRADE BREAK) LEFT SIDE
- 505+30 (OUTLET DITCH) ← WATER FLOW ← 517+00 (GRADE BREAK) RIGHT SIDE
- 517+00 (GRADE BREAK) → WATER FLOW → 522+80 (OUTLET DITCH) RIGHT SIDE
- 517+00 (GRADE BREAK) → WATER FLOW → 523+10 (CROSS LINE) LEFT SIDE

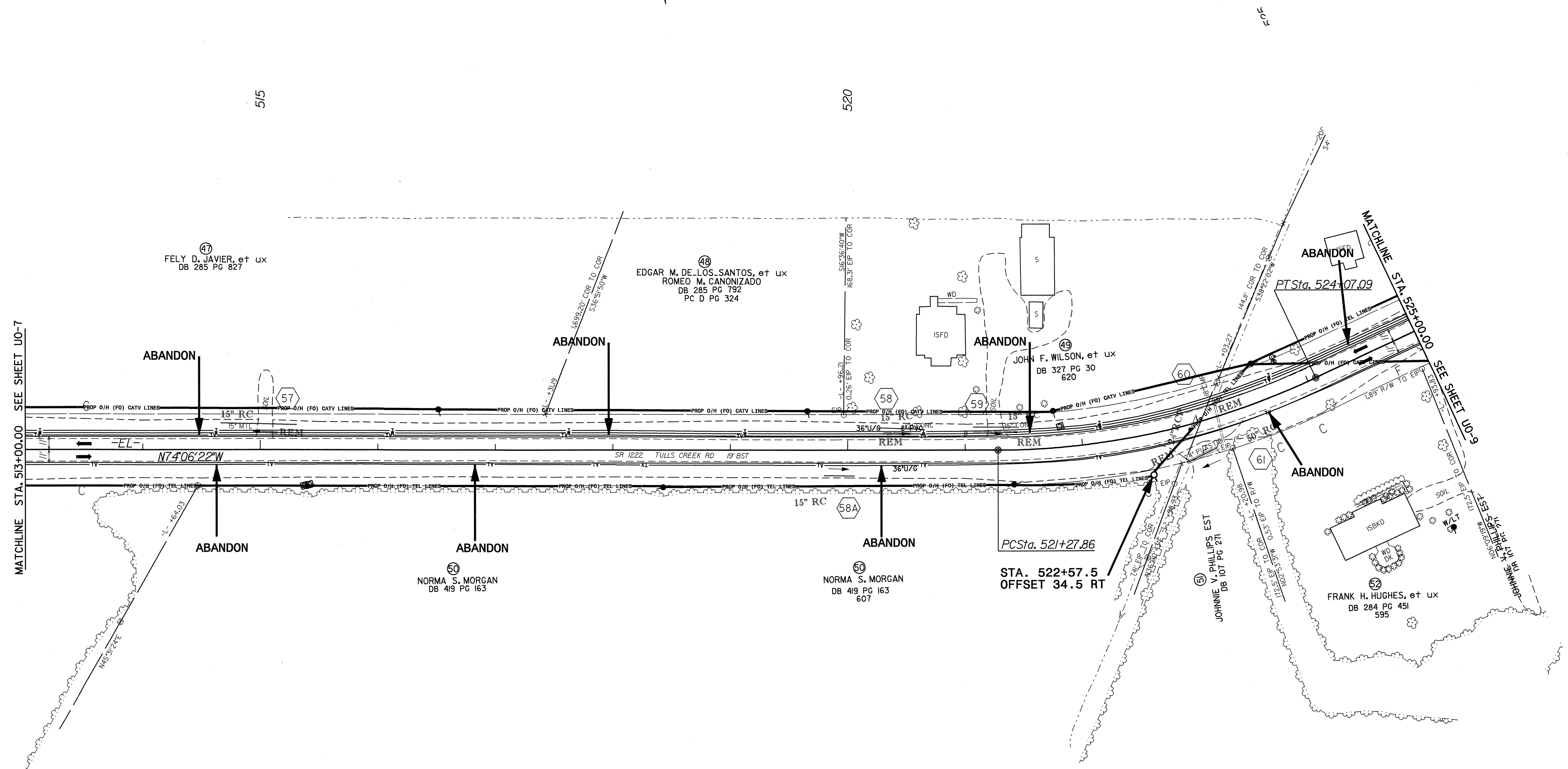
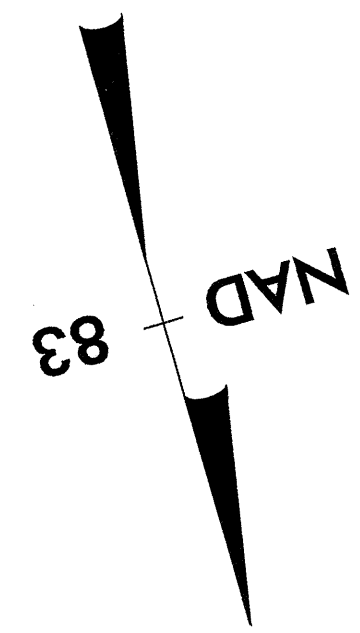
5/14/99

14-MAR-2007 16:40  
\\nautilus\files\civil\proj\4429c\_rdy\_psh\_09\_u07.dgn  
\$\$\$\$\$USERNAME\$\$\$\$\$

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-  
PI Sta 522+69.75  
 $\Delta = 25^{\circ} 07' 49.5" (LT)$   
 $D = 9^{\circ} 00' 00.0"$   
 $L = 279.23'$   
 $T = 141.90'$   
 $R = 636.62'$



GRADE DITCHES AS FOLLOWS:

- 517+00 (GRADE BREAK) → WATER FLOW → 523+10 (CROSS LINE) LEFT SIDE
- 517+00 (GRADE BREAK) → WATER FLOW → 522+80 (OUTLET DITCH) RIGHT SIDE
- 523+10 (CROSS LINE) ← WATER FLOW ← 525+40 (GRADE BREAK) LEFT SIDE
- 522+80 (OUTLET DITCH) ← WATER FLOW ← 525+00 (GRADE BREAK) RIGHT SIDE

5/14/99

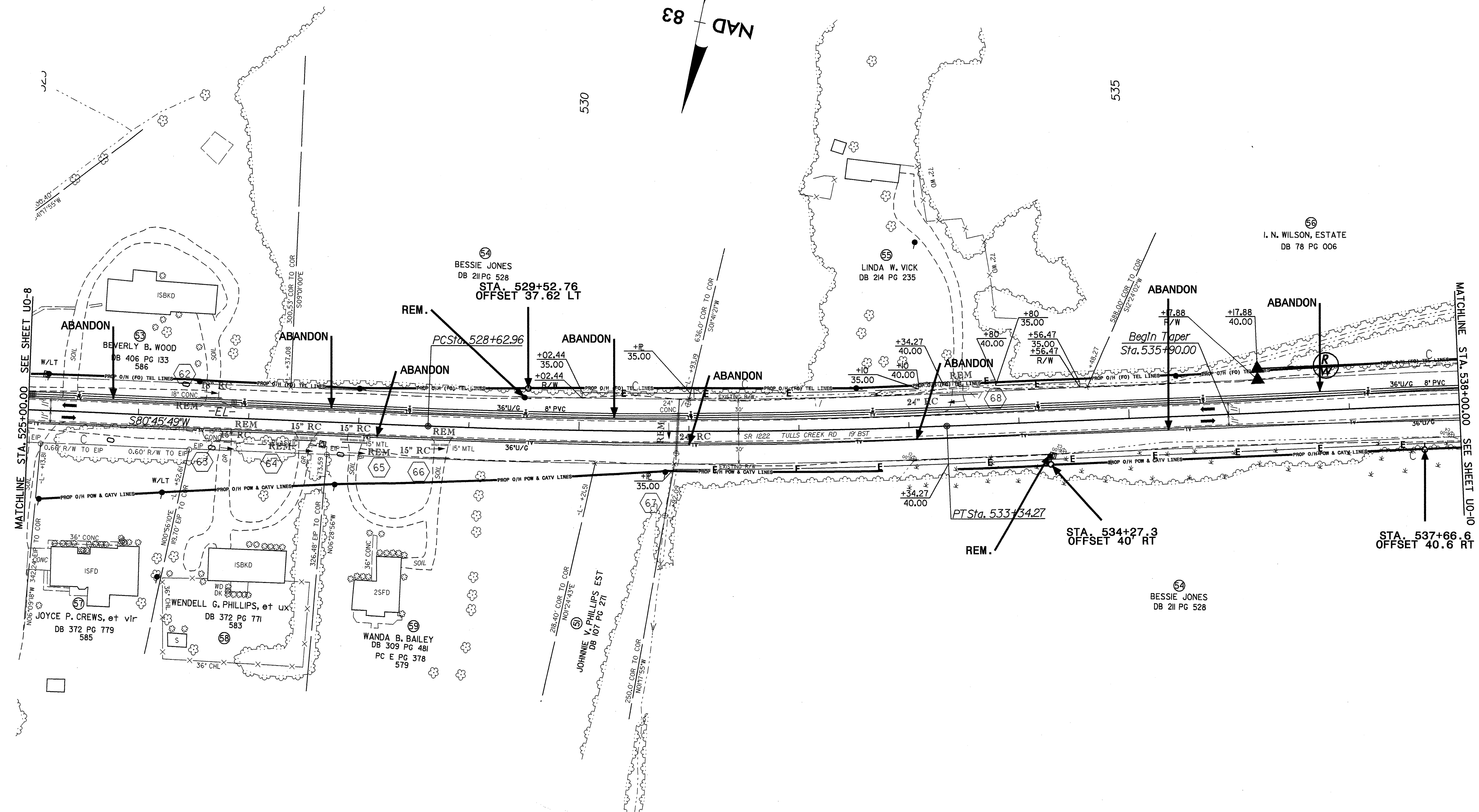
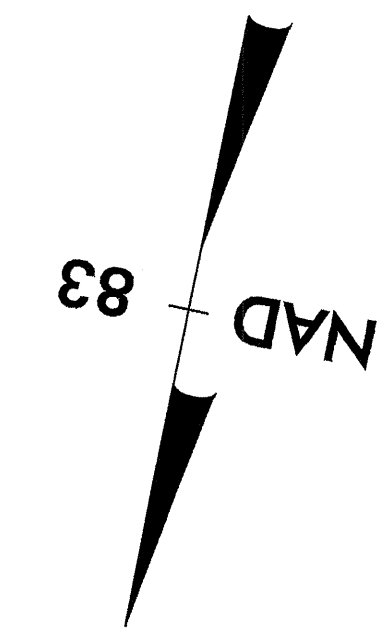
14-MAR-2007 14:43  
I:\projects\4429c\_rdu\_psh\_10\_uo8.dgn



UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-  
PI Sta 530+98.75  
 $\Delta = 4' 42' 47.0'' (LT)$   
D = 1' 00' 00.0''  
L = 471.31'  
T = 235.79'  
R = 5,729.58'



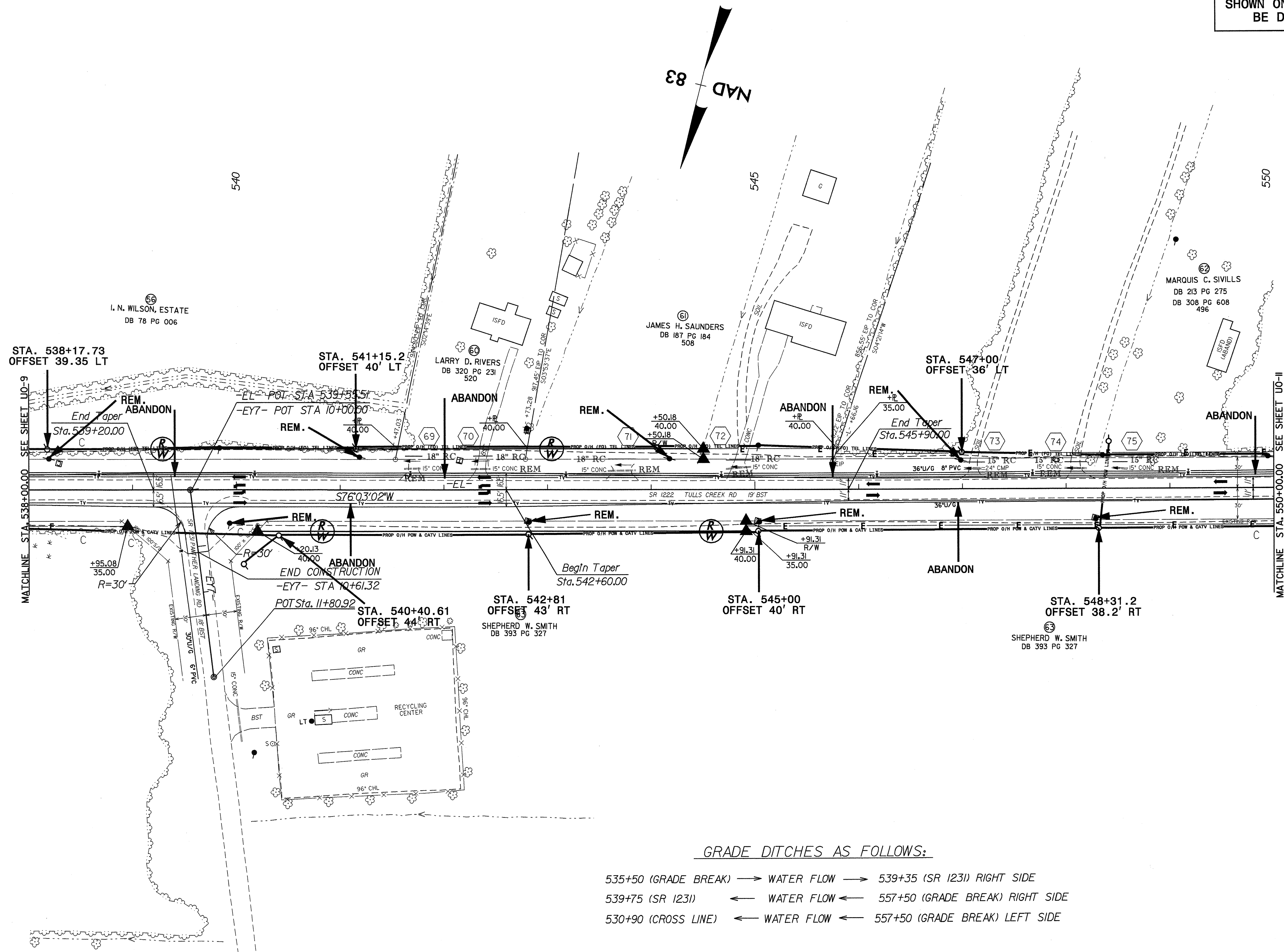
GRADE DITCHES AS FOLLOWS:

- 523+10 (CROSS LINE) ← WATER FLOW ← 525+40 (GRADE BREAK) LEFT SIDE
- 525+40 (GRADE BREAK) → WATER FLOW → 530+90 (OUTLET DITCH) RIGHT SIDE
- 527+00 (SHOULDER EDGE) → WATER FLOW → 530+90 (CROSS LINE) LEFT SIDE
- 530+90 (CROSS LINE) ← WATER FLOW ← 557+50 (GRADE BREAK) LEFT SIDE
- 530+90 (OUTLET DITCH) ← WATER FLOW ← 535+50 (GRADE BREAK) RIGHT SIDE
- 535+50 (GRADE BREAK) → WATER FLOW → 539+35 (OUTLET DITCH) RIGHT SIDE

5/14/99  
14-MAR-2007 15:00  
N:\utilities\rdy\4429c\_rdy\_psh\_11.uo9.dgn

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



GRADE DITCHES AS FOLLOWS:

- 535+50 (GRADE BREAK) → WATER FLOW → 539+35 (SR 1231) RIGHT SIDE
- 539+75 (SR 1231) ← WATER FLOW ← 557+50 (GRADE BREAK) RIGHT SIDE
- 530+90 (CROSS LINE) ← WATER FLOW ← 557+50 (GRADE BREAK) LEFT SIDE

5/14/99

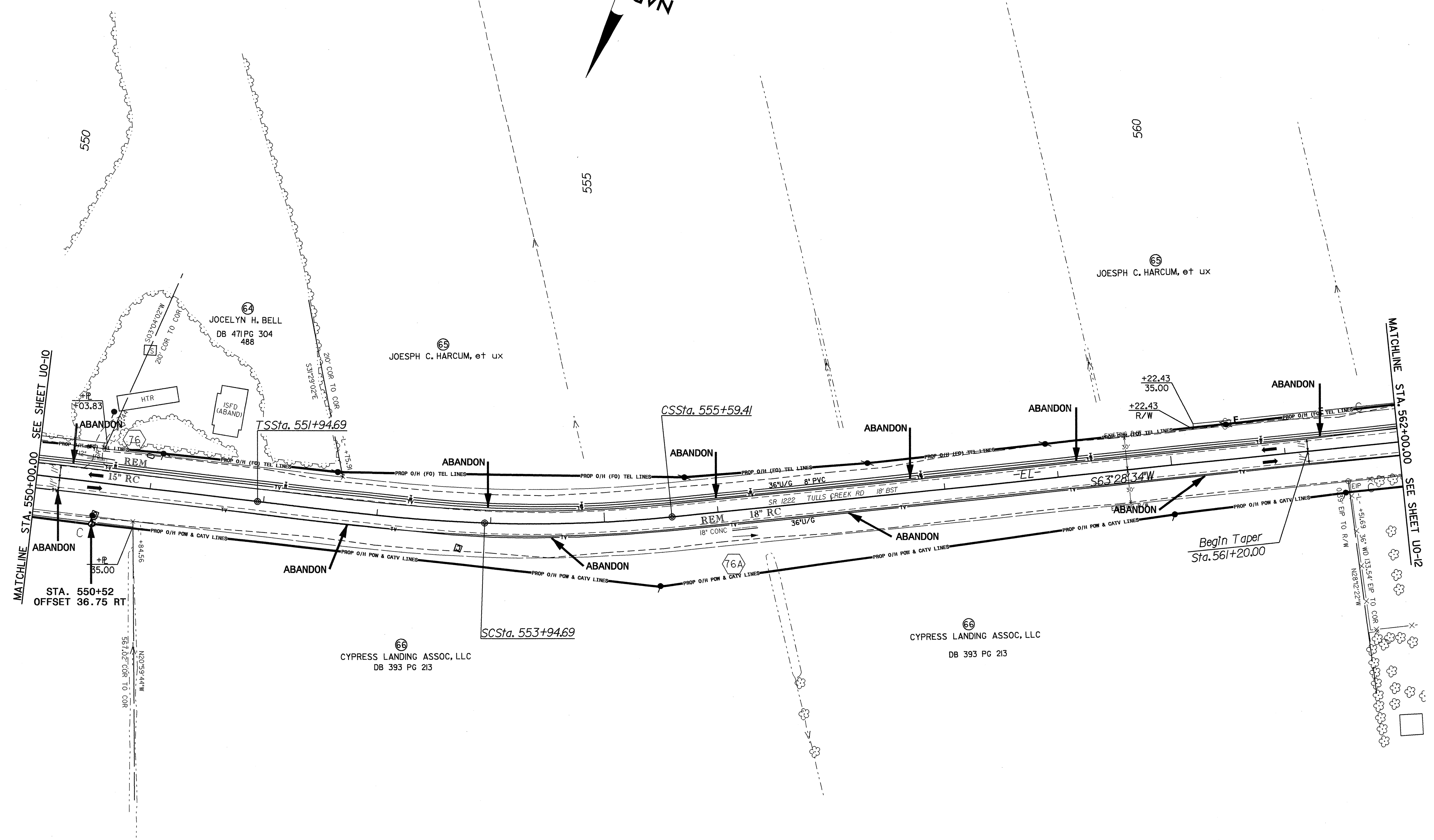
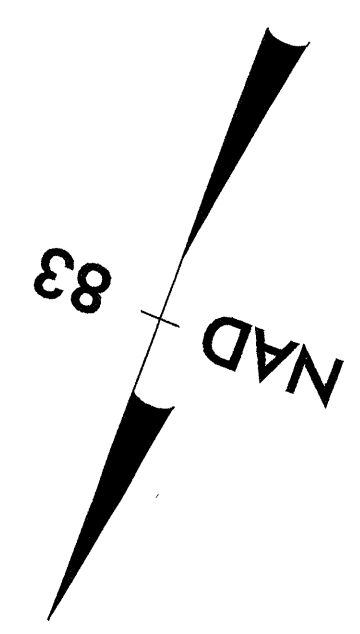
14-MAR-2007 16:24 \\4429c\_rdy\_psh\_12.uo10.dgn

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-EL-  
Pls Sta 553+28.07  
Os = 4' 45" 00.0"  
Ls = 200.00'  
LT = 133.38'  
ST = 66.71'

-EL-  
Pl Sta 554+77.18  
Δ = 7' 49" 27.8" (LT)  
D = 4' 45" 00.0"  
L = 164.72'  
T = 82.49'  
R = 1,206.23'



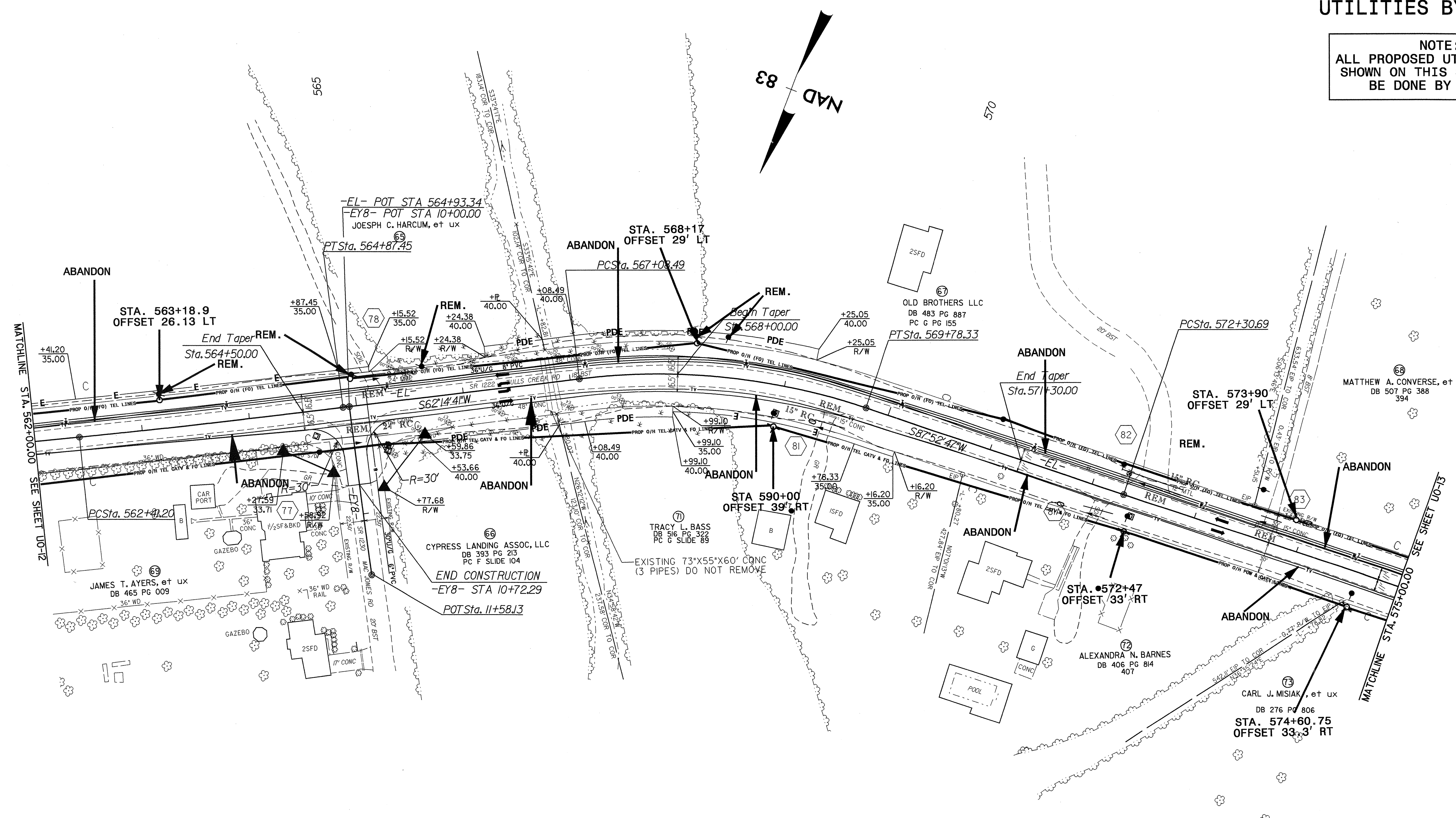
GRADE DITCHES AS FOLLOWS:

557+50 (GRADE BREAK) → WATER FLOW → 566+80 (CROSS LINE) LEFT SIDE  
 557+50 (GRADE BREAK) → WATER FLOW → 566+80 (OUTLET DITCH) RIGHT SIDE

5/14/99  
 28-FEB-2007 14:55  
 \\s:\projects\4429C\RDY\_PSH\_13\_uo11.dgn  
 USER:RDM

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



-EL-	-EL-	-EL-
PI Sta 563+64.33	PI Sta 568+45.71	PI Sta 573+97.04
$\Delta = 1^{\circ}13'52.4"$ (LT)	$\Delta = 25^{\circ}38'05.6"$ (RT)	$\Delta = 0^{\circ}49'54.2"$ (RT)
D = 0'30'00.0"	D = 9'30'00.0"	D = 0'15'00.0"
L = 246.24'	L = 269.84'	L = 332.69'
T = 123.13'	T = 137.22'	T = 166.35'
R = 11,459.16'	R = 603.11'	R = 22,918.31'

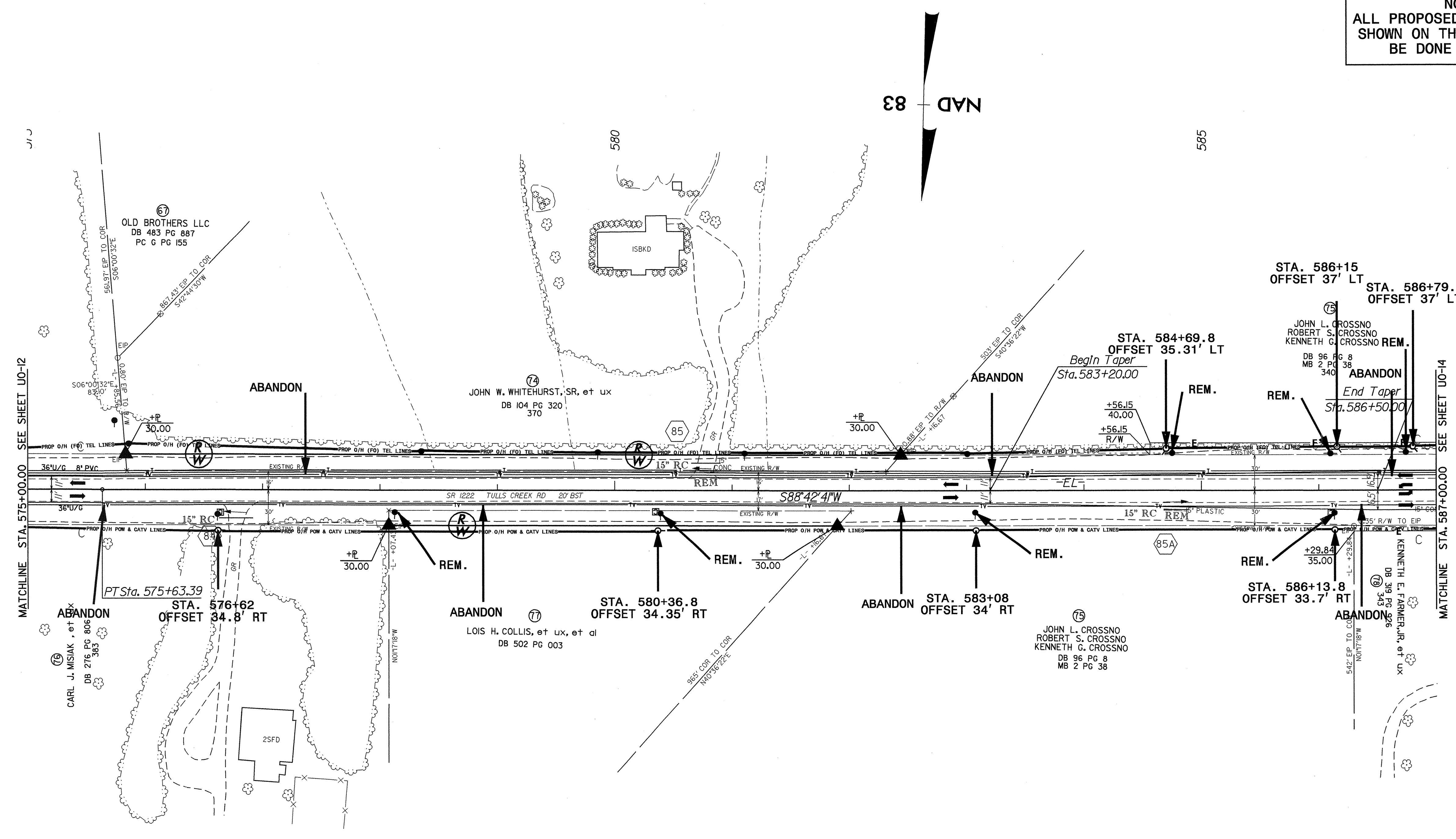
GRADE DITCHES AS FOLLOWS:

- 557+50 (GRADE BREAK) → WATER FLOW → 566+80 (CROSS LINE) LEFT SIDE
- 557+50 (GRADE BREAK) → WATER FLOW → 566+80 (OUTLET DITCH) RIGHT SIDE
- 566+80 (CROSS LINE) ← WATER FLOW ← 585+50 (GRADE BREAK) LEFT SIDE
- 566+80 (OUTLET DITCH) ← WATER FLOW ← 585+50 (GRADE BREAK) RIGHT SIDE

5/14/09  
14-MAR-2007 16:23  
\\nurb111\11\4429c\_rdy\_psh\_14\_uo12.dgn

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



GRADE DITCHES AS FOLLOWS:

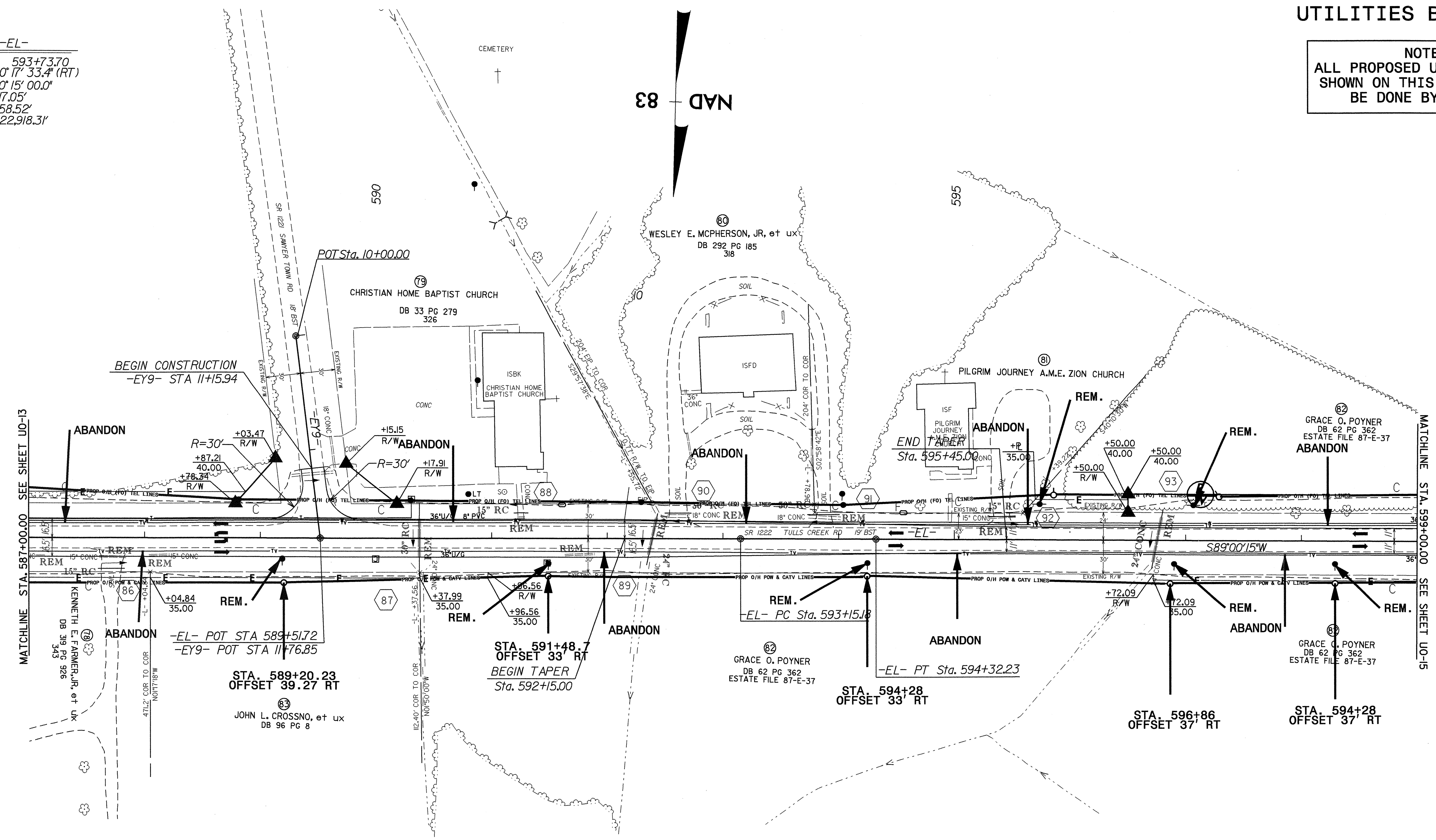
- 566+80 (CROSS LINE) ← WATER FLOW ← 585+00 (GRADE BREAK) LEFT SIDE
- 566+80 (OUTLET DITCH) ← WATER FLOW ← 585+00 (GRADE BREAK) RIGHT SIDE
- 585+00 (GRADE BREAK) → WATER FLOW → 590+40 (CROSS LINE) LEFT SIDE
- 585+00 (GRADE BREAK) → WATER FLOW → 590+40 (OUTLET DITCH) RIGHT SIDE

5/14/99  
 28-FEB-2007 14:56  
 utilities\4429c\RDY\_PSH\_15.u013.dgn  
 3:33:58 PM  
 3:33:58 PM

UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

-EL-  
PI Sta 593+73.70  
Δ = 0° 17' 33.4" (RT)  
D = 0° 15' 00.0"  
L = 117.05'  
T = 58.52'  
R = 22,918.31'



GRADE DITCHES AS FOLLOWS:

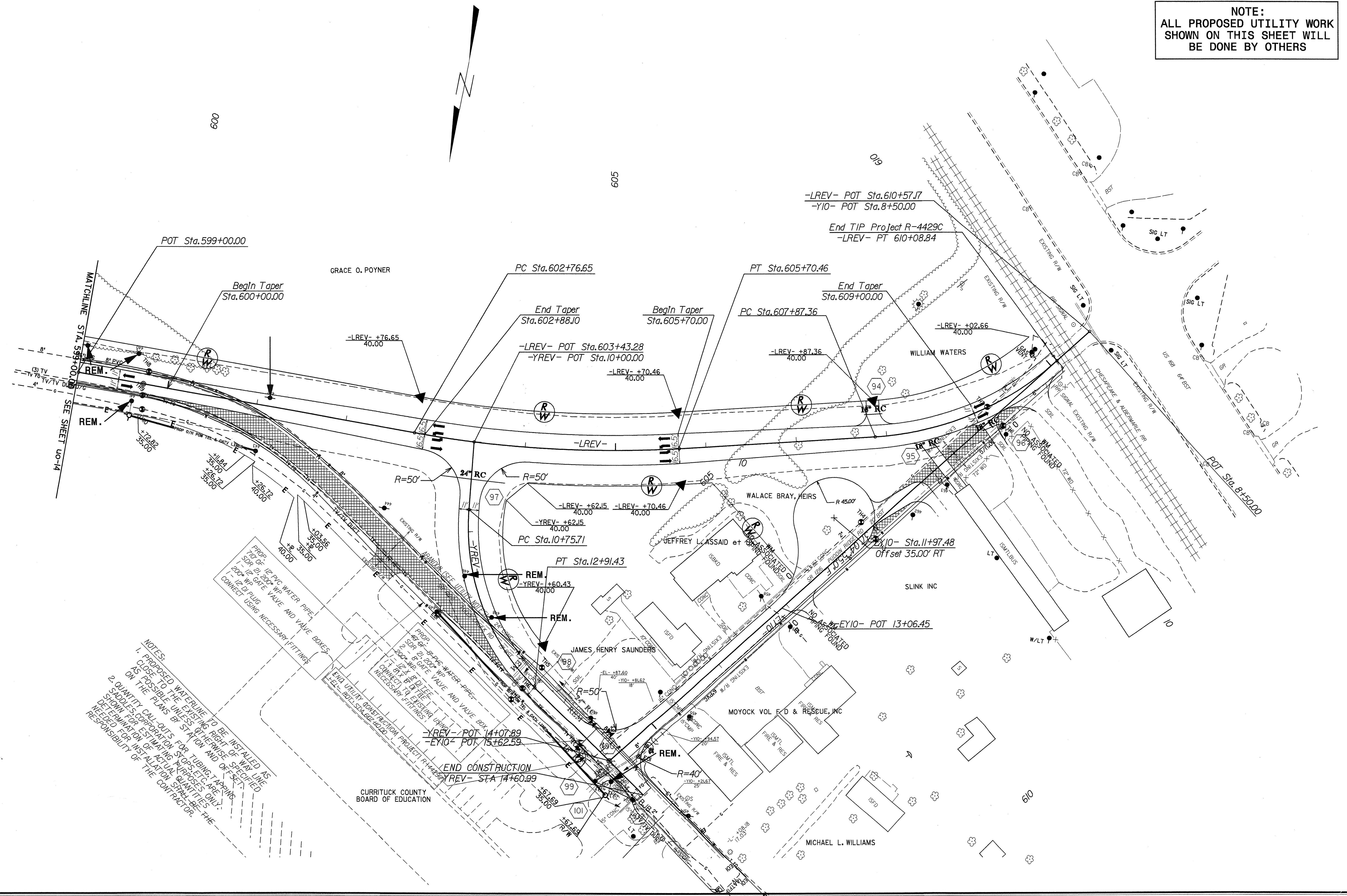
585+00 (GRADE BREAK)	→ WATER FLOW →	590+40 (CROSS LINE) LEFT SIDE
585+00 (GRADE BREAK)	→ WATER FLOW →	590+40 (OUTLET DITCH) RIGHT SIDE
590+40 (CROSS LINE)	← WATER FLOW ←	591+25 (GRADE BREAK) LEFT SIDE
590+40 (OUTLET DITCH)	← WATER FLOW ←	591+75 GRADE BREAK) RIGHT SIDE
591+25 (GRADE BREAK)	→ WATER FLOW →	592+45 (CROSS LINE) LEFT SIDE
591+75 (GRADE BREAK)	→ WATER FLOW →	592+35 (OUTLET DITCH) RIGHT SIDE
592+35 (OUTLET DITCH)	← WATER FLOW ←	596+55 (GRADE BREAK) RIGHT SIDE
592+45 (CROSS LINE)	← WATER FLOW ←	595+00 (GRADE BREAK) LEFT SIDE
596+55 (GRADE BREAK)	→ WATER FLOW →	596+80 (OUTLET DITCH) RIGHT SIDE
595+00 (GRADE BREAK)	→ WATER FLOW →	596+80 (CROSS LINE) LEFT SIDE
596+80 (OUTLET DITCH)	← WATER FLOW ←	600+00 (GRADE BREAK) RIGHT SIDE
596+80 (CROSS LINE)	← WATER FLOW ←	600+00 (GRADE BREAK) LEFT SIDE

5/14/99  
 28-FEB-2007 14:56  
 utilities\4429c\_rdy\_psh\_16.uo14.dgn

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

5/14/99



**NOTES:**  
1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.  
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC., ARE FOR ESTIMATION PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROP. 12" PVC WATER PIPE, 20' OF 24" 200' W.P. 12" DI GATE VALVE AND VALVE BOXES, CONNECT USING NECESSARY FITTINGS

PROP. 8" PVC WATER PIPE, 20' OF 24" 200' W.P. 8" DI GATE VALVE AND VALVE BOXES, CONNECT TO EXISTING UTILITY USING NECESSARY FITTINGS

CURRITUCK COUNTY BOARD OF EDUCATION

15-MAR-2007 15:40  
\\fs1\users\psh\1429\psh\_17\_rev\_no\_ref\_files.dgn