

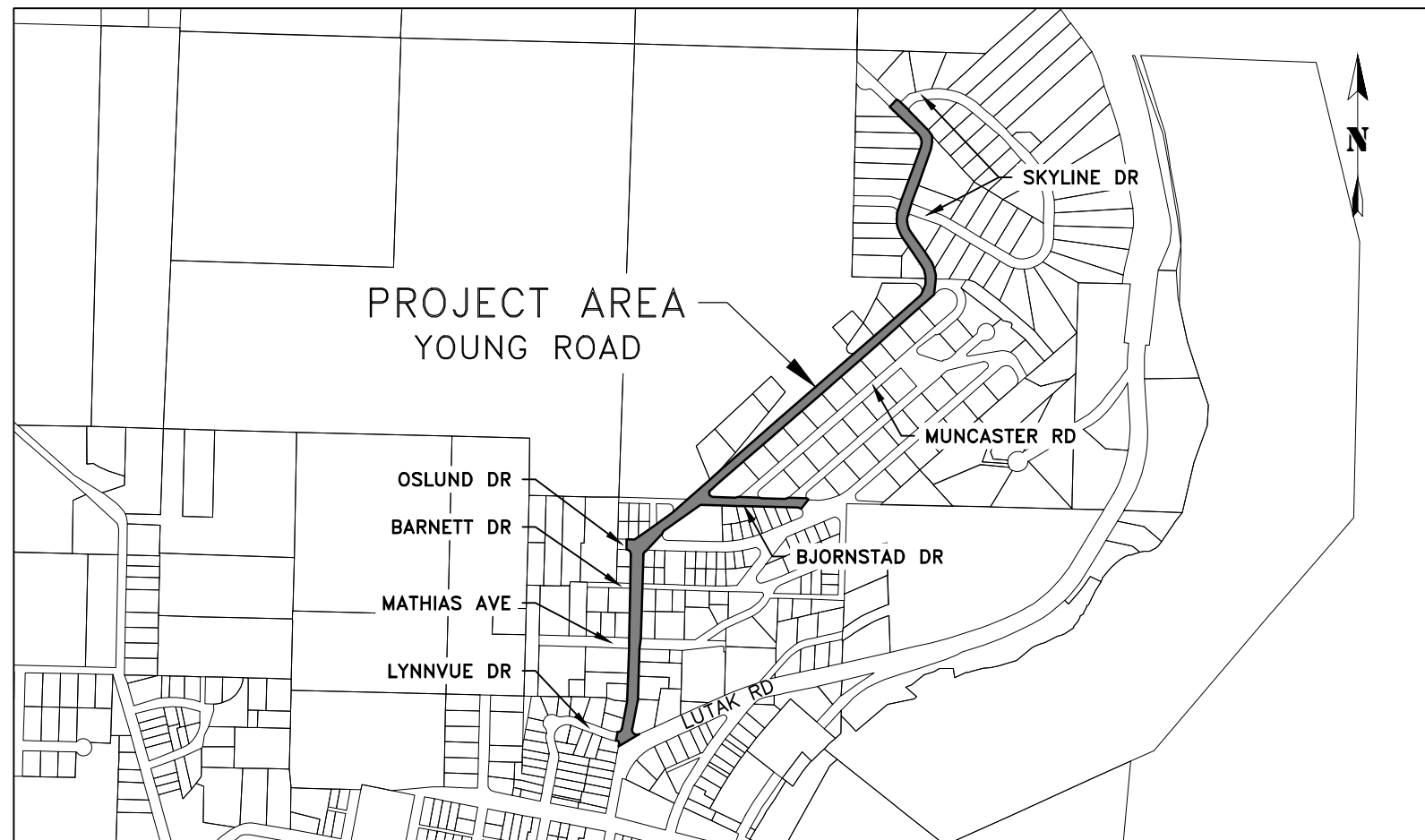
# YOUNG ROAD REPAIRS

## DEC 2020 STORM EVENT 4585DR-AK

### P/W # 00024(435785)

HAINES BOROUGH, ALASKA

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**PROJECT LOCATION MAP**  
NTS



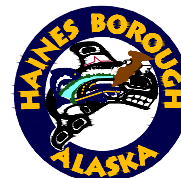
**ALASKA**  
**VICINITY MAP**  
NTS

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No.	DATE	DESCRIPTION	BY



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**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

**COVER SHEET**

SHEET NUMBER	
1	OF
37	

## LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
ASPHALT	EDGE OF ASPHALT		HATCHED AREA
BOLLARDS	● ●	⊗ ⊗	● ●
BUILDING			
CONCRETE			
CURB & GUTTER	====	----	====
CURB - NO GUTTER	====	----	====
FENCE	* * * * *		
FIRE HYDRANT			
MONUMENT			
PROPERTY LINE	----		
SANITARY SEWER CLEANOUT	○	○	○
SANITARY SEWER PIPE	PIPE SIZE & TYPE	----	SP-1
SANITARY SEWER MANHOLE			
SIDEWALK RAMP			
SAWCUT & MTE LIMITS			----
SIGN			
STORM DRAIN CATCH BASIN			
STORM DRAIN PIPE	PIPE SIZE & TYPE SD	PIPE SIZE & TYPE SD	SD P-1 SD
STORM DRAIN MANHOLE, GRATE			
STORM DRAIN MANHOLE, SOLID LID			
TREES			
UNDERGROUND PIPE CAP	[	[	[
UTILITY POLE			
UTILITY POLE WITH LUMINAIRE			
WATER LINE PIPE	PIPE SIZE & TYPE	PIPE SIZE & TYPE	----
WATER VALVE BOX			

## ABBREVIATIONS

AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
BOP	BEGINNING OF PROJECT
BOW	BOTTOM OF WALL
BTM	BOTTOM
BVC	BEGIN VERTICAL CURVE
CB	CATCH BASIN
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CTE	CONNECT TO EXISTING
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
EL	ELEVATION
EOP	END OF PROJECT
EVC	END VERTICAL CURVE
EX	EXISTING
FG	FINISHED GRADE
FRP	FIBERGLASS REINFORCED PLASTIC
FTE	FACE OF THICKENED EDGE
GV	GATE VALVE
HB	HAINES BOROUGH
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH PRESSURE
INV	INVERT
LP	LOW PRESSURE
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MH	MANHOLE
MIN	MINIMUM
MTE	MATCH TO EXISTING
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
RP	RADIUS POINT
RT	RIGHT
ROW	RIGHT-OF-WAY
SDMH	STORM DRAIN MANHOLE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
TBC	TOP BACK OF CURB
TBG	TOP BACK OF GUTTER
TBM	TEMPORARY BENCHMARK
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TYP	TYPICAL
UD	UNDERDRAIN
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY

## GENERAL NOTES

- ALL WORK FOR THESE PLANS SHALL BE CONDUCTED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND STANDARDS.
- LOCATIONS AND ELEVATION OF EXISTING UNDERGROUND WATER, SEWER, POWER, TELEPHONE AND CABLE TELEVISION SHOWN ON THE PLANS WERE DERIVED FROM HAINES BOROUGH AS-BUILTS AND FIELD LOCATES. THE ACTUAL LOCATION OF UTILITIES MAY VARY FROM THOSE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING EXISTING UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. ANY DAMAGE TO UTILITIES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL CONTACT AND REQUEST UTILITY LOCATES, AT A MINIMUM, FROM THE FOLLOWING PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES:
  - HAINES BOROUGH PUBLIC FACILITIES, 907-766-6414.
  - ALASKA POWER & TELEPHONE(AP&T), 907-766-6500.
  - HAINES CABLE TV, 907-766-2337.
- A GEOTECHNICAL INVESTIGATION WAS NOT PERFORMED AS PART OF THIS DESIGN. HARDPAN, CLAY, GROUNDWATER, LARGE BOULDERS, BEDROCK, STUMPS, LOGS, ORGANICS, AND OTHER NATIVE MATERIALS MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING AND SITE GRADING OPERATIONS.
- THE TOTAL DISTURBED AREA FOR THIS PROJECT IS ANTICIPATED TO BE MORE THAN ONE ACRE.
- ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS AND GRADES, UNLESS OTHERWISE SHOWN ON THE PLANS.
- CONTRACTOR SHALL ENSURE GARBAGE PICKUP, PRIVATE AND BUSINESS DELIVERIES, AND DAILY MAIL SERVICE WILL BE UNINTERRUPTED TO ALL BUSINESS AND RESIDENCES AFFECTED BY THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY EACH PROPERTY OWNER OF DRIVEWAY CLOSURE 48 HOURS PRECEDING THE DAY THE DRIVEWAY IS TO BE CLOSED TO VEHICULAR ACCESS. THE PROPERTY OWNER SHALL BE INFORMED OF THE PERIOD OF TIME THE CLOSURE WILL BE IN EFFECT. NO DRIVEWAY CLOSURES WILL BE PERMITTED UNTIL THIS REQUIREMENT HAS BEEN MET TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT THE APPROVAL OF THE PROPERTY OWNER.
- THE PLAN DRAWINGS DO NOT SHOW ALL PLANTINGS, AND OTHER LANDSCAPING THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO PLANTINGS OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- ALL OTHER MATERIALS TO BE REMOVED AND DISPOSED OF SHALL BECOME THE PROPERTY OF THE CONTRACTOR, INCLUDING CONCRETE, ASPHALT, UNSUITABLE SOILS AND ETC.

## THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT

D-01.02, D-04.22, D-07.00, D-20.05, D-22.01, D-23.01, D-24.00, D-25.00, D-26.04  
 I-20.20, I-21.12, I-81.00  
 M-13.01, M-16.01

## STANDARD SPECIFICATION

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.

## TRAFFIC CONTROL NOTES

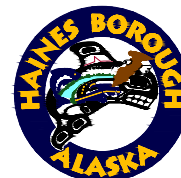
- ALL TRAFFIC TO BE CONTROLLED PER REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL, U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ALASKA SUPPLEMENT.
- ROAD CLOSURES WILL NOT BE PERMITTED FOR THIS PROJECT.
- A MINIMUM OF ONE LANE (10' MINIMUM WIDTH) SHALL BE KEPT OPEN TO VEHICULAR TRAFFIC AT ALL TIMES, EXCEPT A FIVE (5) MINUTE MAXIMUM STOPPAGE TO VEHICULAR TRAFFIC WILL BE PERMITTED, WITH NO MORE THAN ONE TRAFFIC STOPPAGE PER HOUR.
- THE CONTRACTOR WILL NOT BE PERMITTED TO OBSTRUCT VEHICULAR TRAFFIC BETWEEN THE HOURS OF 5:00PM AND 8:00AM SEVEN DAYS A WEEK. DURING THIS PERIOD, ONE LANE (10' MINIMUM WIDTH) SHALL BE OPEN TO VEHICULAR TRAFFIC.
- NOTIFICATION OF WORK THAT MAY IMPEDE TRAFFIC MUST BE PROVIDED TO THE HB PUBLIC WORKS DEPARTMENT, HB POLICE DEPARTMENT, HAINES VOLUNTEER FIRE DEPARTMENT, CHILKOOT INDIAN ASSOCIATION, ALASKA DOT&PF HAINES M&O FOREMAN, AND THE GENERAL PUBLIC A MINIMUM OF 72 HOURS IN ADVANCE OF IMPLEMENTING TRAFFIC CONTROL.
- CONTRACTOR MUST PROVIDE ALL NECESSARY SIGNS AND TRAFFIC CONTROL DEVICES TO MOVE TRAFFIC THROUGH THE PROJECT SITE.
- PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

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No.	DATE	DESCRIPTION	BY



DRAWN BY:	E. ROEMELING
DESIGNED BY:	E. ROEMELING
CHECKED BY:	G. GLADSO



YOUNG ROAD  
REPAIRS

P/W # 00024(435785)

LEGEND  
ABBREVIATIONS &  
GENERAL NOTES


SHEET NUMBER
2
OF
37

**ESTIMATE OF QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	DAMAGE SITE										406 MITIGATION	LOCAL IMPROVEMENTS	TOTAL QUANTITY
			459546	660025	660815	660816	660817	660818	660819	922169	922171	922172			
202.0002.000A	REMOVAL OF PAVEMENT, ASPHALT	SY	2525	--	--	--	--	--	--	--	--	--	--	22	2547
202.0002.000C	REMOVAL OF PAVEMENT, CONCRETE	SY	210	--	--	--	--	--	--	--	--	--	--	--	210
202.0003.0000	REMOVAL OF SIDEWALK	SY	63	--	--	--	--	--	--	--	--	--	30	4	97
202.0004.0000	REMOVAL OF CULVERT PIPE	LF	--	--	33	86	102	38	100	40	40	40	--	--	479
202.0008.0000	REMOVAL OF INLET	EACH	--	--	--	--	1	--	--	--	--	--	--	--	1
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	358	--	--	--	--	--	--	--	--	--	--	10	368
204.0001.0000	PIPE CULVERT EXCAVATION	CY	--	--	22	57	68	25	67	27	27	27	--	--	320
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	831	222	--	--	--	--	--	--	--	--	645	11	1709
301.0003.00E1	AGGREGATE SURFACE COURSE, GRADING E-1	TON	--	--	--	--	--	--	--	--	--	--	391	--	391
401.0001.002B	HMA, TYPE II; CLASS B	TON	450	--	--	--	--	--	--	--	--	--	240	4	694
401.0004.5834	ASPHALT BINDER, GRADE PG 58-34	TON	27	--	--	--	--	--	--	--	--	--	14	1	42
501.2007.0000	HEADWALL CONCRETE, WITH HINGED TRASH RACK	EACH	--	--	1	--	--	--	--	--	--	--	2	--	3
501.2008.0000	HEADWALL CONCRETE, WITHOUT HINGED TRASH RACK	EACH	--	--	--	--	--	--	--	--	--	--	7	--	7
603.0001.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LF	--	--	--	86	102	38	100	--	40	40	822	--	1228
603.0001.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LF	--	--	--	--	--	--	--	40	--	--	--	--	40
603.0001.0048	CORRUGATED POLYETHYLENE PIPE 48 INCH	LF	--	--	33	--	--	--	--	--	--	--	--	--	33
604.0002.0000	SANITARY SEWER MANHOLE	EACH	--	--	--	--	--	--	--	--	--	--	--	2	2
604.0005.000A	INLET, TYPE A	EACH	--	--	--	--	1	--	--	--	--	--	7	--	8
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SY	63	--	--	--	--	--	--	--	--	--	75	4	142
608.0006.0000	CONCRETE CURB RAMP	EACH	1	--	--	--	--	--	--	--	--	--	--	--	1
609.0002.0001	CURB AND GUTTER, TYPE 1	LF	358	--	--	--	--	--	--	--	--	--	904	10	1272
610.0001.0000	DITCH LINING	CY	4	--	--	--	--	--	--	--	--	--	525	--	529
611.0001.0001	RIPRAP, CLASS I	CY	--	--	8	--	--	--	--	--	--	--	--	--	8
626.0001.0008	SANITARY SEWER CONDUIT, 8 INCH	LF	--	--	--	--	--	--	--	--	--	--	--	341	341
626.0002.0000	SANITARY SEWER SERVICE CONNECTION	EACH	--	--	--	--	--	--	--	--	--	--	--	5	5
627.0001.0008	HDPE WATER CONDUIT 8 INCH, SDR 11	LF	--	--	--	--	--	--	--	--	--	--	892	--	892
627.0003.0000	INSTALL VALVE BOX	EACH	--	--	--	--	--	--	--	--	--	--	5	--	5
627.0008.0001	WATER SERVICE CONNECTION	EACH	--	--	--	--	--	--	--	--	--	--	9	1	10
627.0009.0008	GATE VALVE, 8 INCH	EACH	--	--	--	--	--	--	--	--	--	--	5	--	5
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	--	--	--	--	--	--	--	--	--	--	3	--	3
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
671.2005.0000	STREAM DIVERSION AND DEWATERING	LUMP SUM	--	--	ALL REQ'D	--	--	--	--	--	--	--	--	--	ALL REQ'D

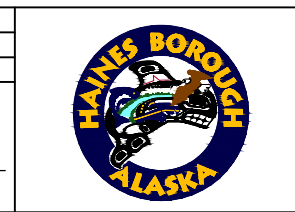
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**HAINES BOROUGH ALASKA**

**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

**ESTIMATE OF QUANTITIES**

SHEET NUMBER  
**3**  
OF  
**37**

WATER SERVICE SUMMARY			
SERVICE TO	STATION & OFFSET	SIZE/TYPE	REMARKS
440 YOUNG ROAD	13+96.48, 30.93 RT	1" POLY	SEE NOTE 1 & 3
LOT 1A ERMA SUBDIVISION	14+56.24, 23.88 LT	1" POLY	SEE NOTE 1
448 YOUNG ROAD	14+88.11, 30.77 RT	1" POLY	SEE NOTES 1 & 2
458 YOUNG ROAD	16+13.11, 57.57 RT	1" POLY	SEE NOTES 1 & 3
2 MATHIAS AVENUE	17+96.66, 30.92 RT	1" POLY	SEE NOTE 1
23 BARNETT DRIVE	17+98.70, 26.25 LT	1" POLY	SEE NOTE 3
4 MATHIAS AVENUE	17+99.66, 30.91 RT	1" POLY	SEE NOTE 1
513 YOUNG ROAD	18+01.70, 26.25 LT	1" POLY	SEE NOTE 1
419 YOUNG ROAD	19+93.19, 26.16 LT	1" POLY	SEE NOTES 1
LOT 12, BLOCK 4 YOUNG SUBDIVISION	19+99.23, 42.88 RT	1" POLY	SEE NOTE 1

NOTES:  
1. INSTALL NEW WATER SERVICE AND CURB BOX PER DETAIL 2 SHEET 10, CONNECT TO EXISTING WATER SERVICE IF EXISTING. STATION AND OFFSET ARE GIVEN TO THE CENTER OF VALVE BOX. REMOVE AND DISPOSE OF EXISTING CURB BOX AND CURB STOP IF EXISTING.  
2. THIS WATER SERVICE BOX WAS NOT FIELD LOCATED, CONTRACTOR SHALL DETERMINE THE LOCATION OF THE EXISTING WATER SERVICE, PRIOR TO INSTALLING NEW WATER SERVICE.  
3. EXISTING CURB BOX IS LOCATED OUTSIDE OF THE ROW. REMOVE EXISTING CURB BOX AND INSTALL NEW CUSTOMER SERVICE LINE FROM NEW CURB BOX TO LOCATION OF REMOVED CURB BOX.

SEWER SERVICE SUMMARY			
SERVICE TO	STATION & OFFSET	SIZE/TYPE	REMARKS
4 MATHIAS AVENUE	17+11.38, 124.38 RT	6" PVC	SEE NOTES 1 & 2
21 BARNETT DRIVE	18+23.99, 124.08 RT	6" PVC	SEE NOTES 1 & 2
13 BARNETT DRIVE	18+32.35, 124.08 RT	6" PVC	SEE NOTES 1 & 2
5 BARNETT DRIVE	18+35.76, 108.13 RT	6" PVC	SEE NOTES 1 & 2
LOT 12, BLOCK 4 YOUNG SUBDIVISION	20+15.05, 29.80 RT	6" PVC	SEE NOTES 1 & 2

NOTES:  
1. INSTALL NEW SEWER CLEANOUT PER DETAIL 5 SHEET 9 AND CBJ STANDARD DETAIL 213, CONNECT TO EXISTING SEWER SERVICE IF EXISTING. STATION AND OFFSET ARE GIVEN TO THE CENTER OF CLEANOUT.  
2. THIS SEWER SERVICE WAS NOT FIELD LOCATED, CONTRACTOR SHALL DETERMINE THE LOCATION OF THE EXISTING SEWER SERVICE, PRIOR TO INSTALLING NEW SEWER SERVICE.

BASIS OF ESTIMATE		
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
301.0003.00D1	AGGREGATE BASE COURSE, GRADING D-1	2.36 TONS/CY
301.0003.00E1	AGGREGATE SURFACE COURSE, GRADING E-1	2.36 TONS/CY
401.0001.002B	HMA, TYPE II; CLASS B	131 LB/SY PER INCH DEPTH
401.0004.5834	ASPHALT BINDER, GRADE PG 58-34	6.0% OF TOTAL WEIGHT OF 401.001.002B

STORM DRAIN STRUCTURE FRAME & GRATE SUMMARY	
STRUCTURE NO.	EAST JORDAN, OLYMPIC FOUNDRY CO., NEENAH FOUNDRY, CBJ STANDARD NO., OR APPROVED EQUAL
S-1	OFCO SM18DI
S-2	OFCO SM18DI
S-3	OFCO SM18DI
S-4	OFCO SM18DI
S-5	OFCO SM18DI
S-6	OFCO SM18DI
S-7	OFCO SM18DI
S-8	EJ 7701, T2 HOOD & 7700 M3 GRATE

NOTES:  
1. CATCH BASIN TOP SLAB OPENINGS SHALL BE DIMENSIONED TO FIT THE FRAME DIMENSIONS. ALL GRATES SHALL BE HEAVY DUTY CONSTRUCTION & BICYCLE SAFE. ALL FRAMES & GRATES TO BE DUCTILE IRON.

STORM DRAIN PIPE REMOVAL SUMMARY				
SIZE	PIPE TYPE	INLET	OUTLET	APPROXIMATE LINEAR FOOTAGE
		STATION & OFFSET	STATION & OFFSET	
18"	CMP	11+91.65, 22.99 RT	12+91.61, 18.92 RT	100
18"	CMP	13+69.55, 21.64 RT	14+09.73, 20.04 RT	40
18"	CMP	14+45.74, 15.87 RT	14+85.80, 12.34 RT	40
24"	CPP	16+21.30, 13.14 RT	16+58.97, 17.47 RT	48
18"	CMP	17+77.26, 18.28 RT	18+17.59, 18.92 RT	40
24"	CPP	19+63.60, 19.58 RT	20+04.05, 20.45 RT	40
18"	CMP	21+11.99, 20.56 RT	21+32.33, 22.11 RT	20
18"	CMP	21+87.74, 28.35 RT	23+05.57, 18.16 LT	119
18"	CMP	22+12.46, 24.29 LT	22+32.18, 35.15 LT	26
16"	STEEL	24+04.87, 17.49 LT	24+29.80, 19.97 LT	25
48"	CPP	27+43.88, 4.89 LT	27+63.59, 22.01 LT	26

FIRE HYDRANT SUMMARY	
REMARKS	STATION & OFFSET
SALVAGE AND REINSTALL EXISTING FIRE HYDRANT	16+69.91, 61.00 RT
SALVAGE AND REINSTALL EXISTING FIRE HYDRANT	19+64.52, 113.29 RT

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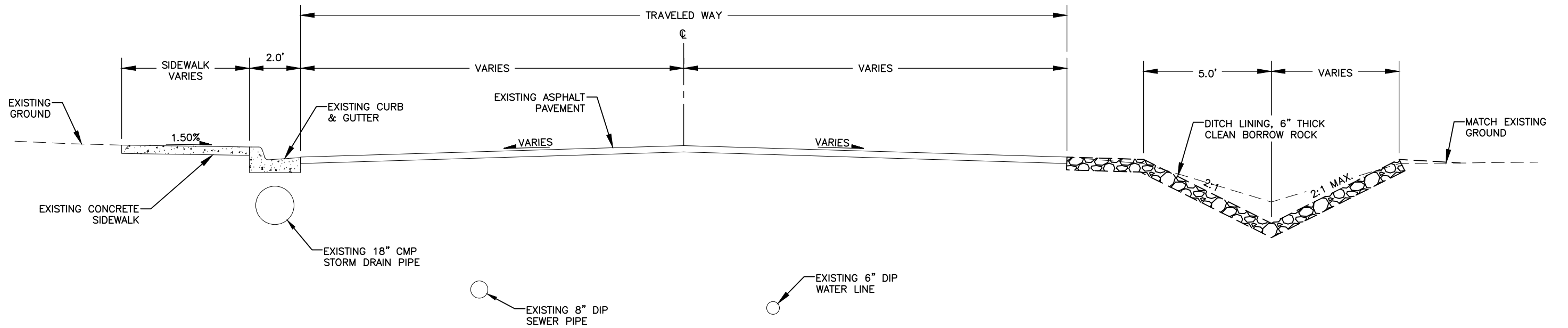
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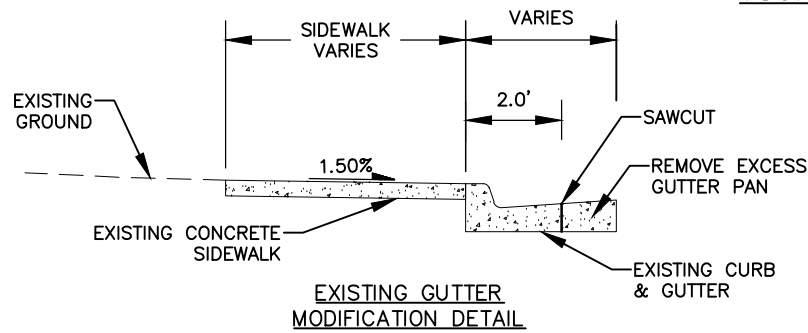
**YOUNG ROAD REPAIRS**  
P/W # 00024(435785)

**SUMMARY TABLES**

SHEET NUMBER
4
OF
37

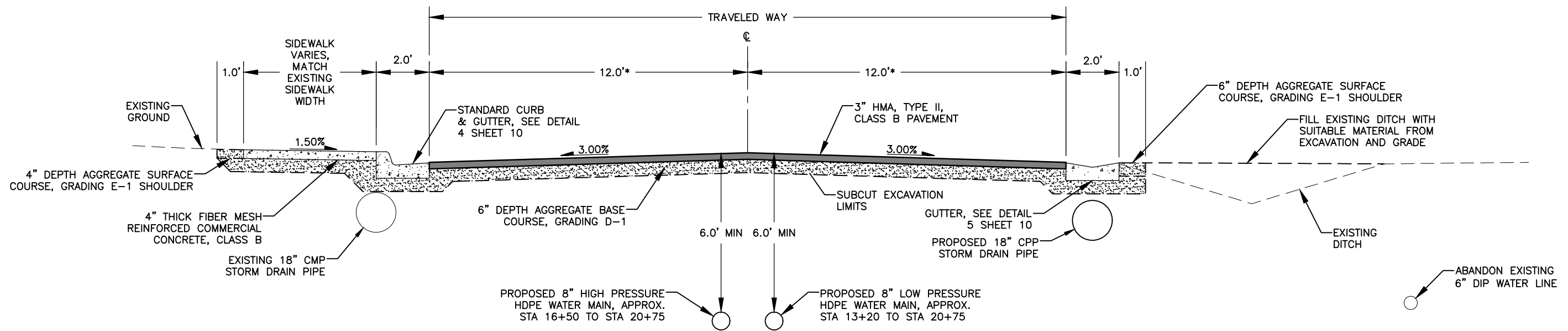


YOUNG ROAD REPAIR STATION RANGE BOP TO 13+20  
NTS



EXISTING GUTTER  
MODIFICATION DETAIL

NOTE:  
SEE SHEET 6 FOR TYPICAL SECTION, TRAFFIC  
CONTROL AND PAVING SEQUENCING NOTES.



YOUNG ROAD REPAIR STATION RANGE 13+20 TO 22+20  
NTS

\*WIDTH VARIES AT INTERSECTIONS

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# YOUNG ROAD REPAIRS

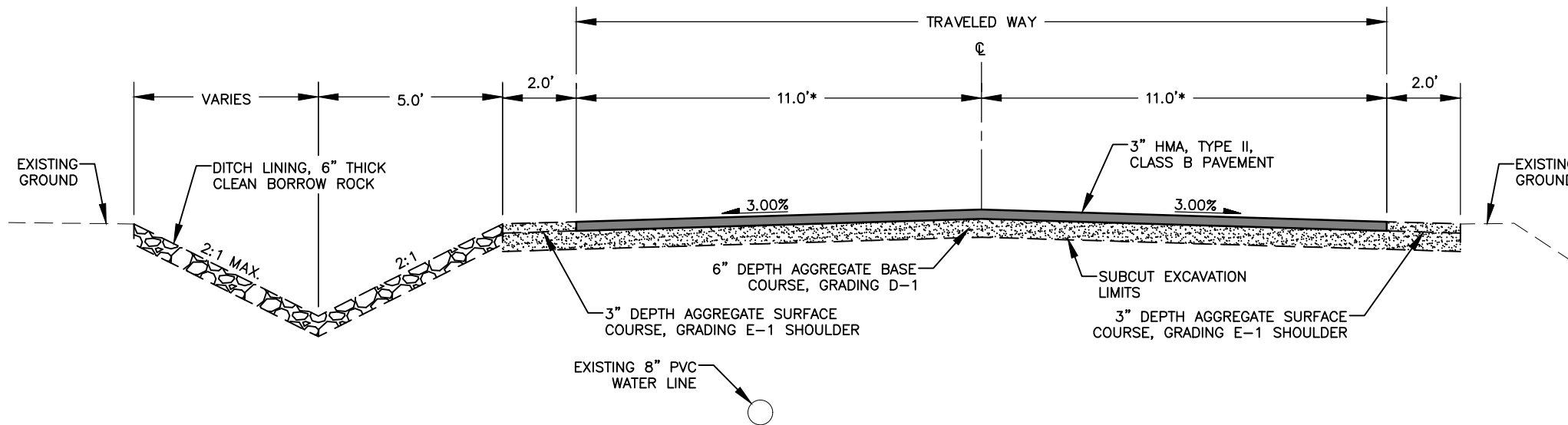
P/W # 00024(435785)

## TYPICAL SECTIONS - 1

SHEET NUMBER	
5	OF
37	

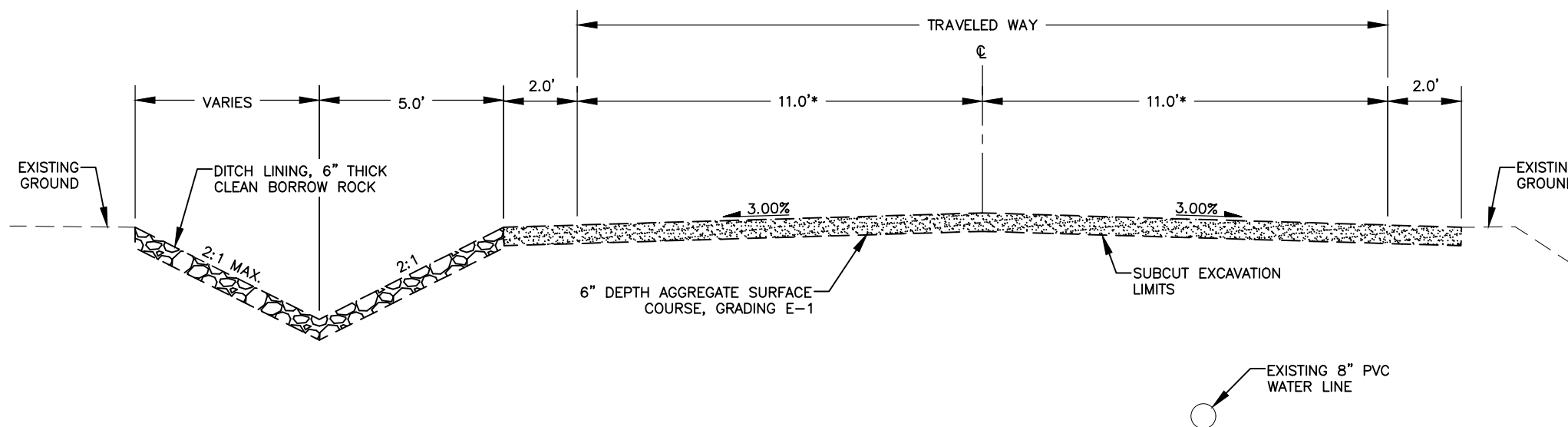
## TYPICAL SECTION NOTES

- SIDE SLOPES, WIDTHS AND GRADES MAY VARY AT SOME LOCATIONS, SEE GRADING SHEETS FOR ADDITIONAL INFORMATION.
- SANITARY SEWER AND WATER SERVICES ARE NOT SHOWN ON TYPICAL SECTIONS. SEE PLAN VIEW DRAWINGS FOR LOCATIONS.
- DEPTH AND HORIZONTAL LOCATION OF EXISTING UNDERGROUND ELECTRICAL, WATER, AND SANITARY SEWER VARIES. SEE PLAN SHEETS FOR APPROXIMATE LOCATIONS.
- ADDITIONAL EXCAVATION BELOW THE NEATLINE SUBCUT LEVEL MAY BE REQUIRED BY THE ENGINEER IF ORGANIC OR OTHER UNSUITABLE MATERIALS ARE FOUND AT OR NEAR THE PLANNED SUBCUT LEVEL. USABLE MATERIAL FROM EXCAVATION SHALL BE USED TO BACKFILL THE ADDITIONAL AREAS OF EXCAVATION. BACKFILLING WITH USABLE MATERIAL FROM EXCAVATION WILL BE CONSIDERED INCIDENTAL TO OTHER WORK.
- DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO EQUAL OR BETTER CONDITION WITH SUBGRADE REPLACED IN LAYERS TO MATCH THOSE REMOVED, EXCEPT:
  - GRAVEL DRIVEWAYS SHALL BE SUBCUT TO 4" BELOW FINISH GRADE AND REPLACED WITH 4" OF SURFACE COURSE, GRADING E-1.
  - ORGANICS, ROOTS, WOOD OR OTHER DELETERIOUS MATERIALS ENCOUNTERED IN DRIVEWAYS DURING EXCAVATION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND DISPOSED OF AT AN APPROVED OFFSITE DISPOSAL SITE. BACKFILL VOIDS BELOW THE REQUIRED SUBCUT LAYER WITH USABLE EXCAVATION.
- PLACE AND GRADE SURFACE COURSE GRADING, E-1 USED TO MATCH TO EXISTING GROUND TO PROVIDE A SMOOTH, WELL DRAINED TRANSITION TO EXISTING GRADES, AS DIRECTED BY THE ENGINEER.
- BACKFILL TRENCHES AND VOIDS FROM EXISTING UTILITY REMOVALS WITH NATIVE MATERIAL TO EXCAVATION LIMITS. PLACE AND COMPACT MAX 12 INCH THICK LIFTS TO SATISFACTION OF THE ENGINEER.
- TOP OF PAVEMENT GRADES GIVEN ON THE PLANS ARE ACTUAL FINISHED PAVEMENT SURFACE ELEVATIONS.
- PROOF ROLLING BOTTOM OF SUBCUT EXCAVATION SHALL BE PERFORMED USING A MINIMUM 10-TON SELF-PROPELLED VIBRATORY COMPACTOR. A MINIMUM OF TWO (2) PASSES (ONE PASS EQUALS DOWN AND BACK) SHALL BE MADE OVER THE SUBCUT SOILS AND AS APPROVED BY THE ENGINEER.



YOUNG ROAD REPAIR STATION RANGE 22+20 TO 25+65  
NTS

\*WIDTH VARIES AT INTERSECTIONS



YOUNG ROAD REPAIR STATION RANGE 25+65 TO EOP  
NTS

\*WIDTH VARIES AT INTERSECTIONS

## PAVING SEQUENCE NOTES

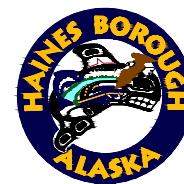
- THE CONTRACTOR SHALL SAWCUT AND TACK CENTERLINE JOINT BEFORE PAVING ADJOINING PANEL, AND THEN SEAL TOP OF JOINT AFTER PAVING WITH CSS-1 OR APPROVED EQUAL.

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RECORD OF REVISIONS			
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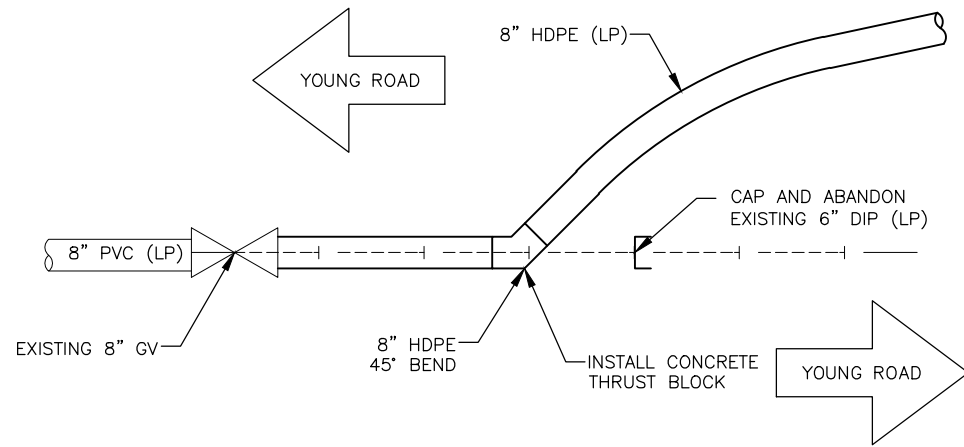


YOUNG ROAD  
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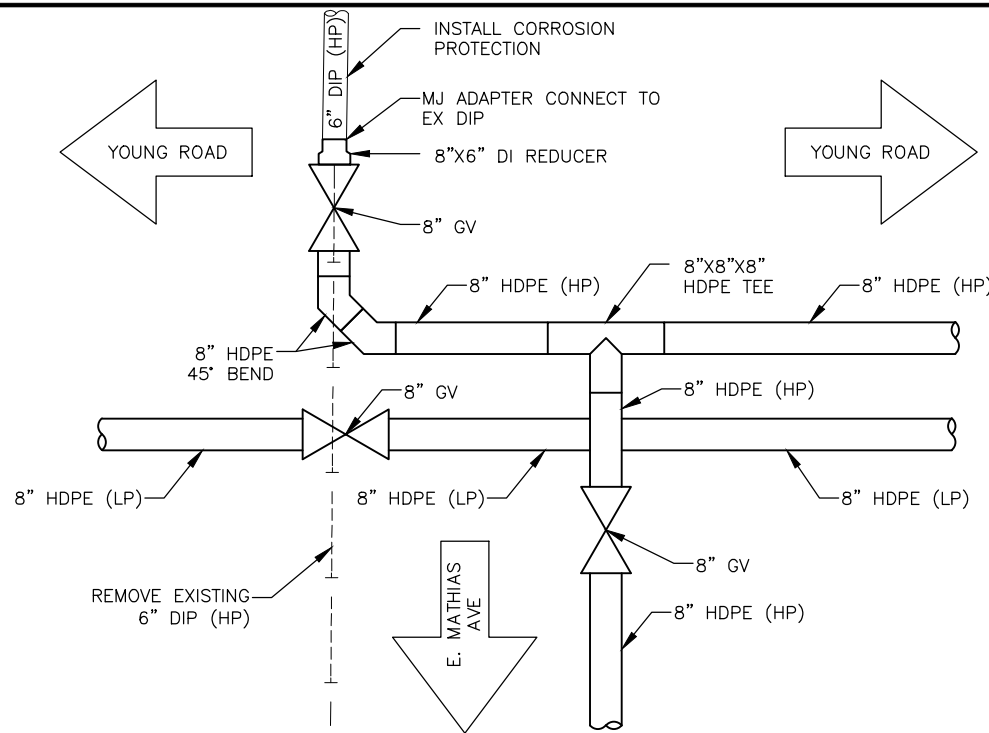
TYPICAL SECTIONS - 2

SHEET NUMBER	
6	OF
37	



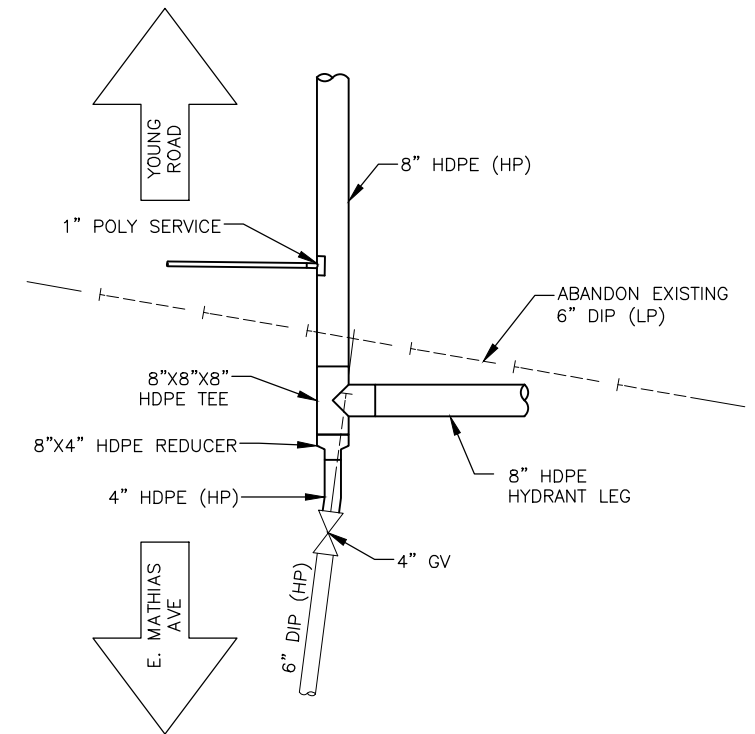
LP WATERLINE CONNECTION  
DETAIL ~STA 13+30

1  
7  
SCALE: NOT TO SCALE



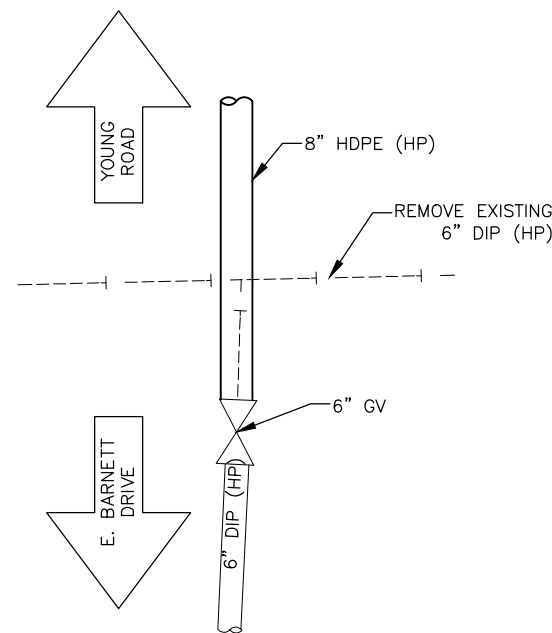
HP WATERLINE CONNECTION  
DETAIL ~STA 16+55 CL

2  
7  
SCALE: NOT TO SCALE



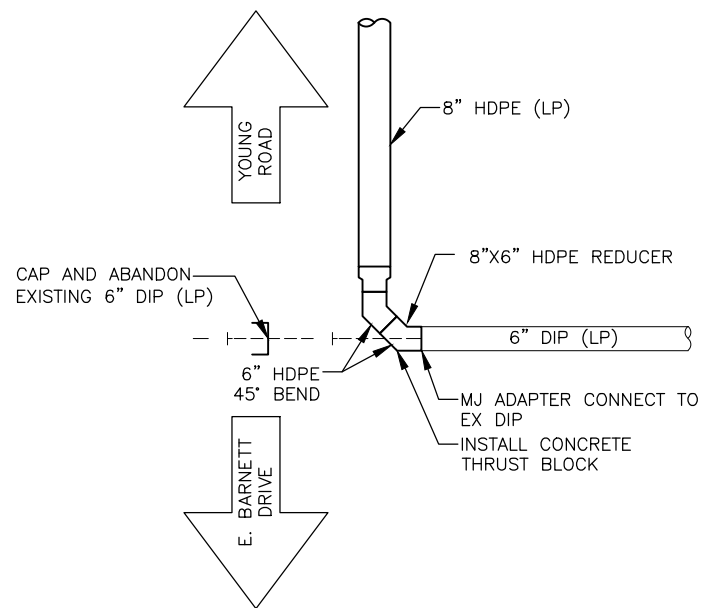
HP WATERLINE CONNECTION  
DETAIL ~STA 16+55 60' RT

3  
7  
SCALE: NOT TO SCALE



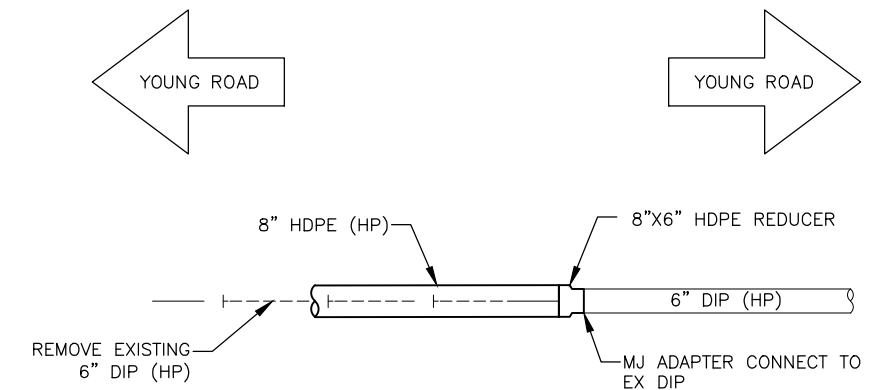
HP WATERLINE CONNECTION  
DETAIL ~STA 19+84 19' RT

4  
7  
SCALE: NOT TO SCALE



LP WATERLINE CONNECTION  
DETAIL ~STA 19+93 123' RT

5  
7  
SCALE: NOT TO SCALE



HP WATERLINE CONNECTION  
DETAIL ~STA 20+80

6  
7  
SCALE: NOT TO SCALE

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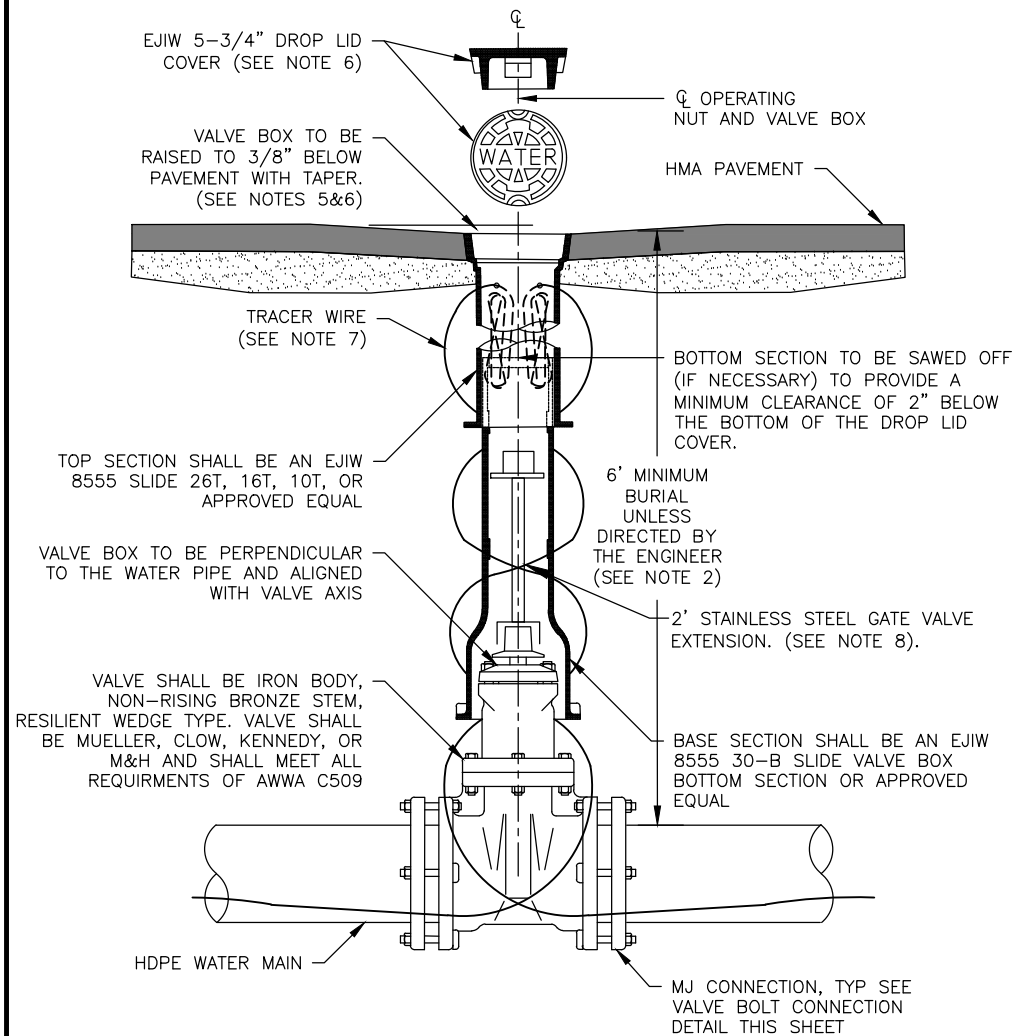


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WATER LINE  
CONNECTION DETAILS

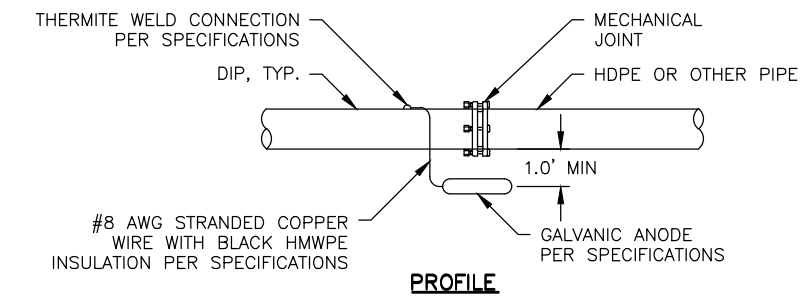
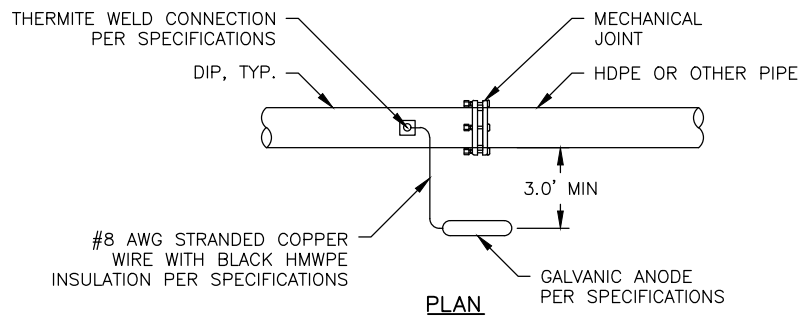
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7	OF
37	



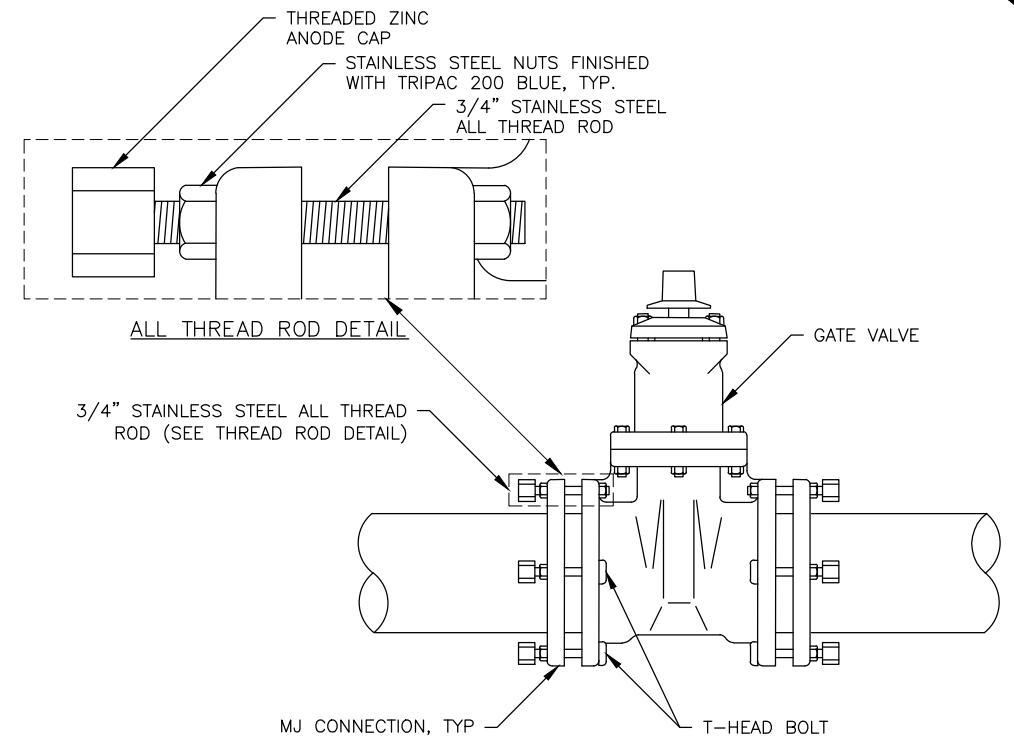
**1**  
8  
**MAIN LINE WATER VALVE DETAIL**  
SCALE: NOT TO SCALE

**DETAIL 1/8 NOTES:**

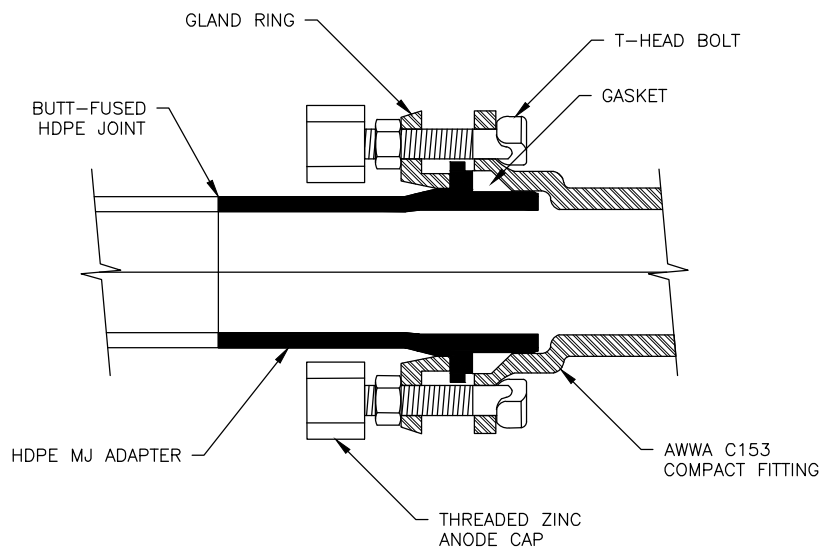
1. A VALVE IS REQUIRED WHERE SHOWN ON THE PLANS.
2. GROUND COVER SHALL BE 6' MINIMUM. ADDITIONAL COVER (MORE THAN 6') MAY BE REQUIRED BY THE ENGINEER. IF WATER MAIN IS MORE THAN 6' DEEP, USE 4" ID CAST IRON SOIL PIPE WITH TOP SECTION EJW 8555 SLIDE (26T,16T, OR 10T) VALVE BOX.
3. THIS DETAIL APPLIES TO ALL MAINLINE VALVES AND ALL WATER VALVES 4" IN DIAMETER OR GREATER.
4. NO MORE THAN 1 VALVE BOX PAVING RISER IS ALLOWED PER VALVE.
5. VALVE BOXES ARE TO BE RAISED DURING PAVING OPERATIONS A MINIMUM OF 3/8" BELOW FINISHED PAVEMENT. VALVE BOXES THAT DO NOT MEET GRADE SPECIFICATIONS SHALL BE SAWCUT, RAISED TO GRADE AND PATCHED.
6. VALVE BOX COVER SHALL BE 5-3/4" DROP LID TYPE WITH 1" RAISED LETTERING (RECESSED FLUSH) AND 2 CLOSED PICKHOLES.
7. TRACER WIRE SHALL BE NO.10 AWG HIGH-STRENGTH COPPER CLAD STEEL WITH BLUE HDPE INSULATION JACKET. MAIN LINE TRACER WIRE SHALL NOT BE SPLICED AND SHALL BE CONTINUOUS BETWEEN VALVE BOXES. TRACER WIRE SHALL BE CONNECTED TO THE BOTTOM QUADRANT OF THE HDPE WATER PIPE. EACH END OF TRACER WIRE SHALL BE TERMINATED AT A VALVE BOX, TRACER WIRE SHALL RUN OUTSIDE THE VALVE BOX AND BE INSERTED INTO THE VALVE BOX THROUGH A 3/4" DRILLED HOLE WITHIN 9"-12" OF THE TOP. 5' OF ADDITIONAL TRACER WIRE SHALL BE NEATLY COILED WITHIN THE VALVE BOX.
8. ALL BOLTS TO HAVE THREADED ZINC ANODE CAP, SEE DETAIL 3 THIS SHEET.
9. GATE VALVE EXTENSION SHALL BE WATER KEY PRODUCT NO. VESS-02 OR APPROVED EQUAL. CONTRACTOR TO VERIFY THAT VALVE EXTENSION IS COMPATIBLE WITH THE VALVE OPERATING NUT.



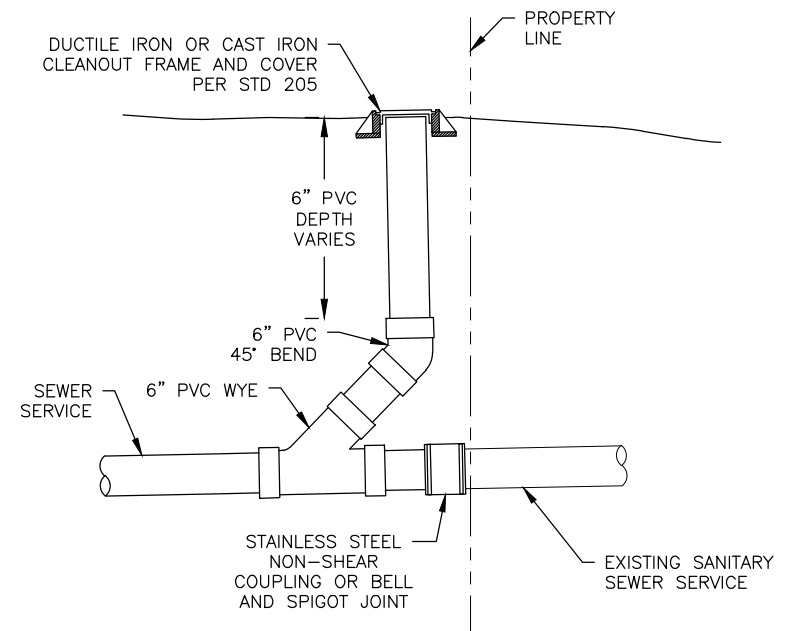
**2**  
8  
**GALVANIC ANODE INSTALLATION FOR PIPE MATERIAL TRANSITION DETAIL**  
SCALE: NOT TO SCALE



**3**  
8  
**VALVE BOLT CONNECTION DETAIL**  
SCALE: NOT TO SCALE



**4**  
8  
**TYPICAL HDPE MJ CONNECTION TO DI FITTING**  
SCALE: NOT TO SCALE



**5**  
8  
**SEWER CLEANOUT FOR EXISTING SERVICE**  
SCALE: NOT TO SCALE

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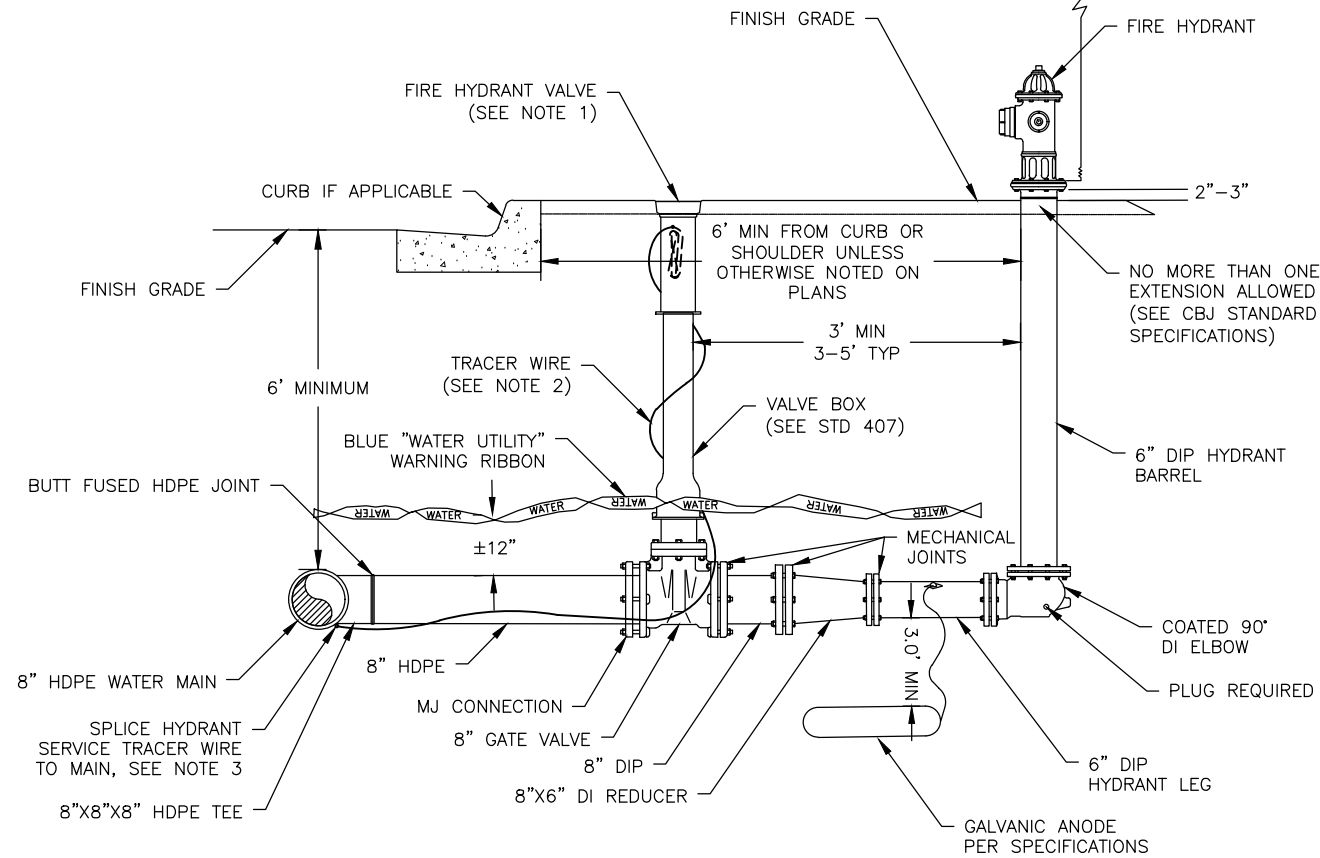
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**CONSTRUCTION DETAILS - 1**

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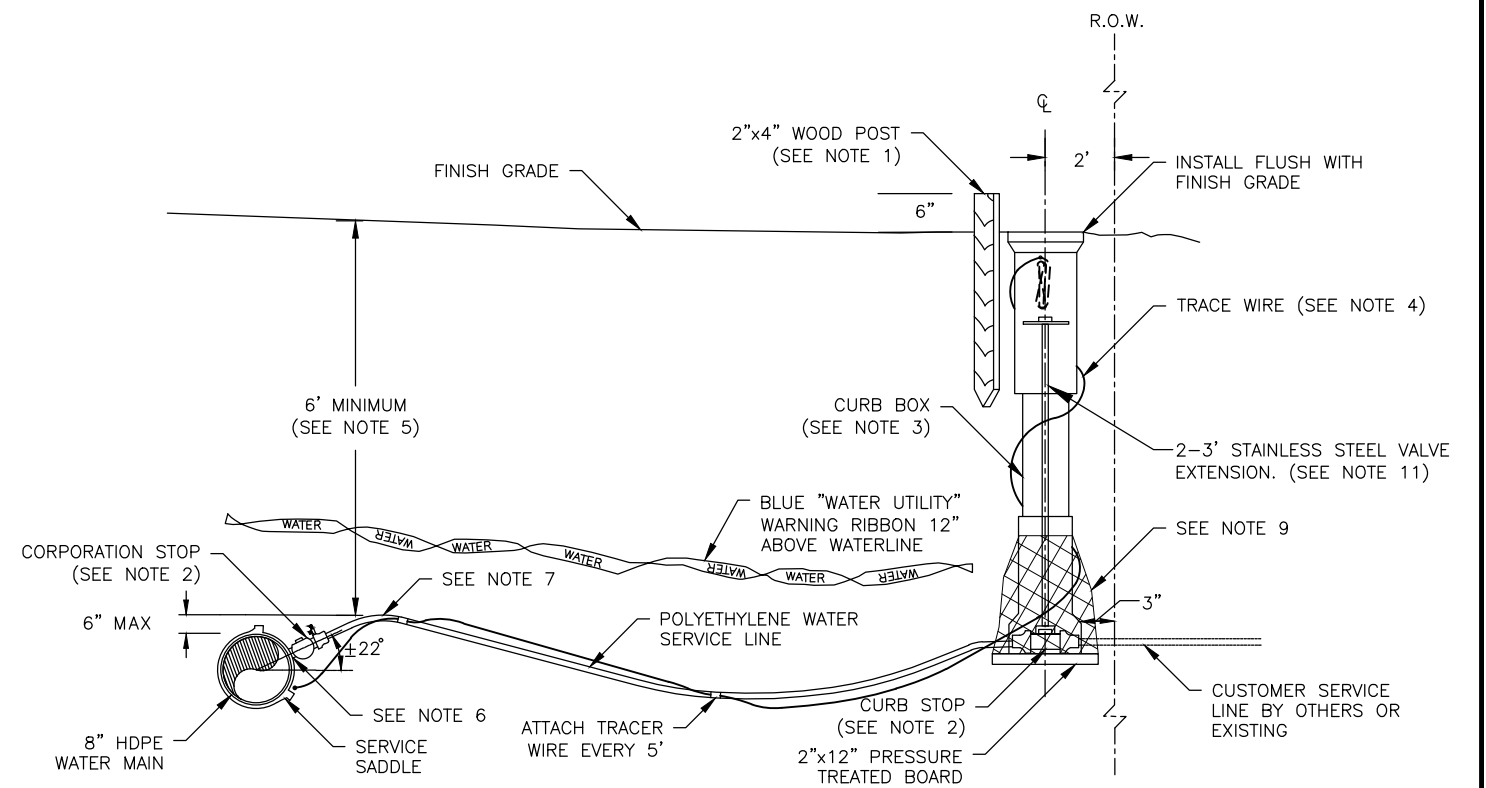




**1** MODIFIED FIRE HYDRANT ASSEMBLY DETAIL  
 9 SCALE: NOT TO SCALE

**DETAIL 1/9 NOTES:**

1. FIRE HYDRANT VALVE BOX TO BE INSTALLED SO THAT THE LID IS A MINIMUM OF 3/8", MAXIMUM OF 5/8" BELOW FINISHED PAVEMENT.
2. TRACER WIRE SHALL BE NO.10 AWG HIGH-STRENGTH COPPER CLAD STEEL WITH BLUE HDPE INSULATION JACKET. MAIN LINE TRACER WIRE SHALL NOT BE SPLICED AND SHALL BE CONTINUOUS BETWEEN VALVE BOXES. SERVICE AND HYDRANT LEGS SHALL USE WATERPROOF DIRECT BURY SPLICE CONNECTION LUGS. TRACER WIRE SHALL BE CONNECTED TO THE BOTTOM QUADRANT OF THE HDPE WATER PIPE. EACH END OF TRACER WIRE SHALL BE TERMINATED AT A VALVE BOX, TRACER WIRE SHALL RUN OUTSIDE THE VALVE BOX AND BE INSERTED INTO THE VALVE BOX THROUGH A 3/4" DRILLED HOLE WITHIN 9"-12" OF THE TOP. 5' OF ADDITIONAL TRACER WIRE SHALL BE NEATLY COILED WITHIN THE VALVE BOX.
3. HYDRANT LEG TRACER SPLICE CONNECTION INTO THE MAIN TRACE WIRE ARE TO BE CONSTRUCTED USING DRYCONN WATERPROOF DIRECT BURY LUGS AS MANUFACTURED BY KING INNOVATION OR APPROVED EQUAL.
4. HYDRANT BARREL AND VALVE BOX SHALL BE PLUMB.
5. GROUND COVER SHALL BE 6' MINIMUM. ADDITIONAL COVER (MORE THAN 6') MAY BE REQUIRED BY THE ENGINEER.
6. ALL HYDRANTS SHALL BE PAINTED CATEPILLAR YELLOW, AND THE NUMBER OF FEET TO THE VALVE SHALL BE PRINTED IN BLACK 1/2" BLOCK LETTERS JUST BELOW THE TOP BONNET. PORT CAPS SHALL BE COLOR CODED PER NFPA STANDARD 291 AS DIRECTED BY THE CBJ WATER UTILITIES DEPARTMENT.
7. HYDRANT SHALL BE MUELLER CENTURION 200 OR 250 WITH INTEGRAL STORZ PUMPER CONNECTION OR APPROVED EQUAL. CLOW F2500 SERIES HYDRANTS ARE NO LONGER ACCEPTED BY CBJ.
8. ALL BOLTS TO HAVE THREADED ZINC ANODE CAP, SEE DETAIL 3 SHEET 9.



**2** POLYETHYLENE WATER SERVICE DETAIL  
 9 SCALE: NOT TO SCALE

**DETAIL 2/9 NOTES:**

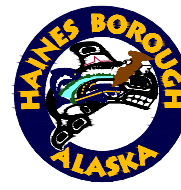
1. AT CURB STOP MARK CURB BOX WITH BLUE 2"x4" WOOD POST OR MARK "W" ON CONCRETE CURB ABOVE THE SERVICE LINE OR CONNECT TO EXISTING LINE.
2. USE MUELLER CORPORATION STOP NO. B25025, FORD CORPORATION STOP NO. FB700-4, OR APPROVED EQUAL. USE MUELLER CURB STOP NO. H15201, OR NO. H15204, FORD CURB STOP B22-444 OR APPROVED EQUAL.
3. CURB BOX SHALL BE KEJRIWAL PACIFIC 145R 49"-62" LID, TOP, MIDDLE AND BOTTOM OR APPROVED EQUIVALENT.
4. TRACER WIRE SHALL BE NO.10 AWG HIGH-STRENGTH COPPER CLAD STEEL WITH BLUE HDPE INSULATION JACKET. MAIN LINE TRACER WIRE SHALL NOT BE SPLICED AND SHALL BE CONTINUOUS BETWEEN VALVE BOXES. SERVICES SHALL USE WATERPROOF DIRECT BURY SPLICE CONNECTION LUGS. TRACER WIRE SHALL BE CONNECTED TO THE BOTTOM QUADRANT OF THE HDPE WATER PIPE. EACH END OF TRACER WIRE SHALL BE TERMINATED AT A VALVE BOX, TRACER WIRE SHALL RUN OUTSIDE THE VALVE BOX AND BE INSERTED INTO THE VALVE BOX THROUGH A 3/4" DRILLED HOLE WITHIN 9"-12" OF THE TOP. 5' OF ADDITIONAL TRACER WIRE SHALL BE NEATLY COILED WITHIN THE VALVE BOX.
5. ALL SERVICES MUST HAVE A MINIMUM OF 6' OF COVER BELOW EXISTING CULVERTS AND DITCHES. ADDITIONAL DEPTH MAY BE REQUIRED BY THE ENGINEER. INSULATE SERVICE LINES PER DETAIL X/X WHERE NEEDED
6. HOLE DRILLED IN THE MAIN FOR THE CORPORATION STOP SHALL BE THE SAME DIAMETER AS THE SERVICE PIPE.
7. PROVIDE AN ADDITIONAL 12" OF SERVICE PIPE BEYOND STRAIGHT LINE LENGTH REQUIRED. LOOP AS SHOWN AT THE CORP STOP. MAINTAIN 6' MINIMUM BURIAL AT HIGH POINT OF SERVICE LINE.
8. MAINTAIN A MINIMUM OF 18" OF SEPARATION BETWEEN VALVE BOXES, AND BETWEEN VALVE BOXES AND OTHER STRUCTURES.
9. WRAP BOTTOM OF CURB BOX WITH FABRIC OR PLASTIC PRIOR TO BACKFILLING TO KEEP MATERIAL FROM INFILTRATING THE BOX.
10. SERVICE BOXES SHALL BE LOCATED 2 FEET INSIDE OF THE RIGHT-OF-WAY LINE.
11. SOME EXISTING WATER SERVICES MAY NOT BE 1". CONTRACTOR TO SUPPLY ALL NECESSARY PARTS AND FITTINGS TO CONNECT THE PROPOSED 1" WATER SERVICES TO THE EXISTING WATER SERVICES AFTER THE CURB STOP.
12. CURB STOP VALVE EXTENSION SHALL BE WATER KEY PRODUCT NO. CBRSS-48 OR APPROVED EQUAL. CONTRACTOR TO VERIFY THAT VALVE EXTENSION IS COMPATIBLE WITH THE CURB STOP OPERATING KEY.

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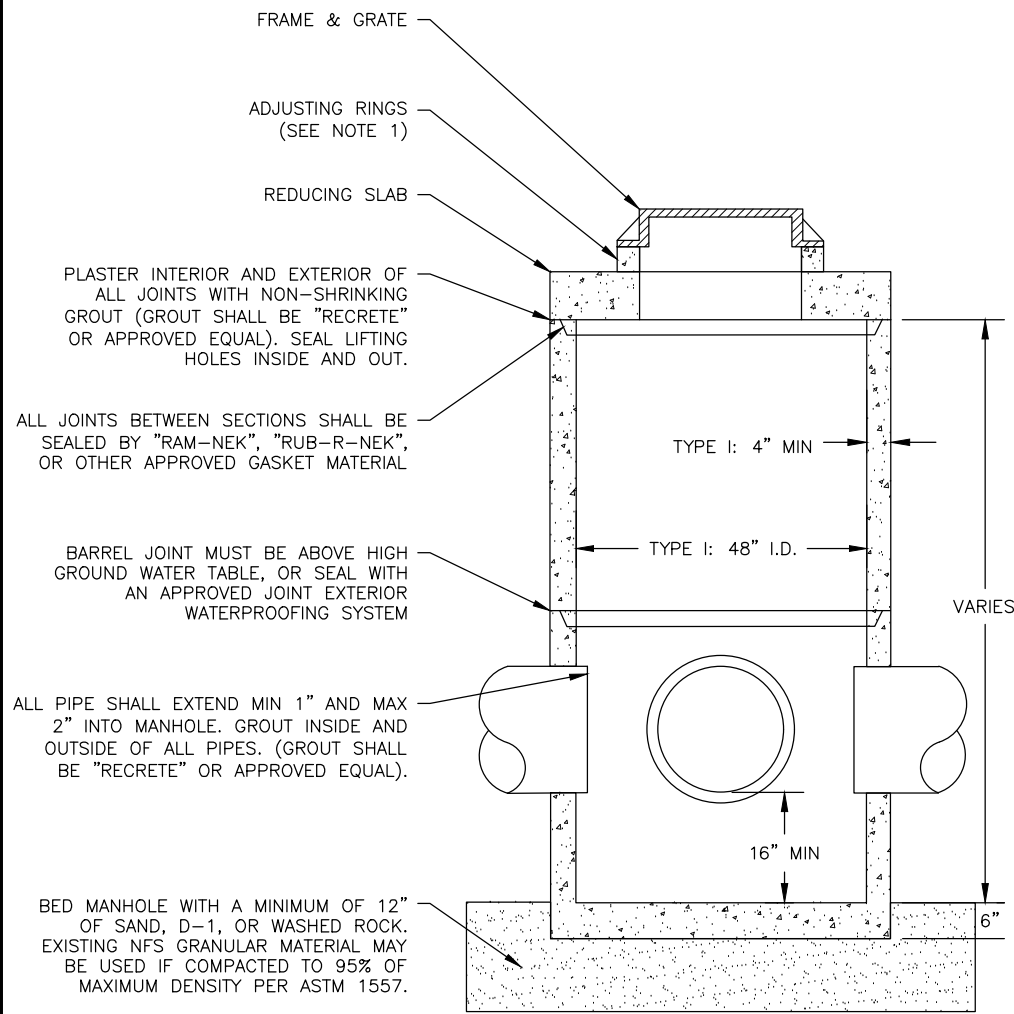


**YOUNG ROAD  
REPAIRS**

P/W # 00024(435785)

**CONSTRUCTION  
DETAILS - 2**

SHEET NUMBER	
9	OF
37	

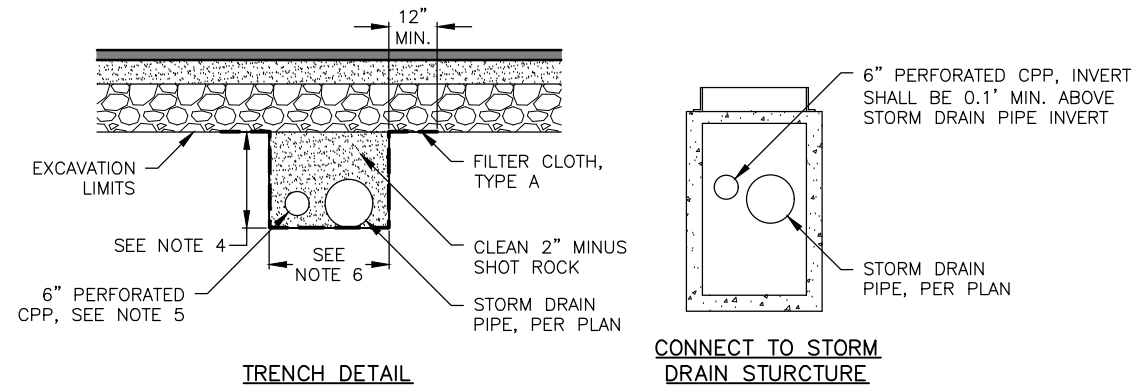


**1** **CONCENTRIC STORM DRAIN MANHOLE WITH REDUCING SLAB – TYPE I**

SCALE: NOT TO SCALE

**DETAIL 1/10 NOTES:**

1. THE AREA BETWEEN THE TOP OF THE CATCH BASIN AND THE FRAME SHALL BE FILLED WITH CONCRETE MEETING THE REQUIREMENTS OF 03302-CONCRETE STRUCTURES. NO BRICKS, WOOD, STONES, ADJUSTING RINGS, OR OTHER GRADE ADJUSTMENT DEVICES SHALL BE USED. TEMPORARY FORM WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH INSIDE EXPOSED SURFACE FREE OF VOIDS AND PROJECTIONS. THE CONSTRUCTED FRAME SUPPORT MUST MATCH THE INTERIOR OF THE FRAME INSTALLED AS APPROVED BY THE ENGINEER.
2. FOR TYPE I MANHOLE, PRIMARY LEADS SHALL NOT EXCEED 30" C.M.P. OR 27" R.C.P. WITH INCLUDED ANGLE BETWEEN LEADS NO LESS THAN 135°. OR PRIMARY LEAD NOT TO EXCEED 24" C.M.P. OR 21" R.C.P. WITH INCLUDED ANGLE LESS THAN 135°.

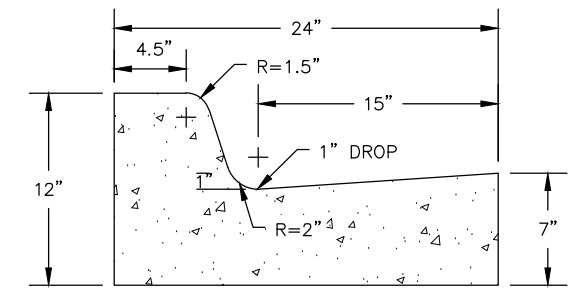


**2** **6-INCH CPP UNDERDRAIN**

SCALE: NOT TO SCALE

**DETAIL 2/10 NOTES:**

1. OUTFALL CONNECTIONS WILL BE INTO CATCH BASINS.
2. BOTH ENDS OF PIPES SHALL BE CONNECTED IN STORM DRAIN STRUCTURES OR CAPPED, SEE PLANS. FILTER CLOTH SHALL BE FOLDED AND OVERLAPPED TO SEAL END OF DRAIN ROCK SECTION.
3. PROVIDE KNOCK OUTS IN STORM DRAIN STRUCTURES LARGE ENOUGH TO ACCOMMODATE BOTH UNDERDRAIN AND STORM DRAIN PIPE.
4. DEPTH VARIES SEE PLAN OR PROFILE SHEETS.
5. MINIMUM PIPE SLOPE SHALL BE 1.00%.
6. TRENCH WIDTH SHALL BE 3'-2" WIDE AT 18" STORM PIPE CROSSINGS AND 1'-6" WIDE WHEN NO STORM DRAIN PIPE IS PRESENT.
7. UNDERDRAIN NOT REQUIRED IF REMOVAL OF BEDROCK IS REQUIRED FOR UNDERDRAIN INSTALLATION.

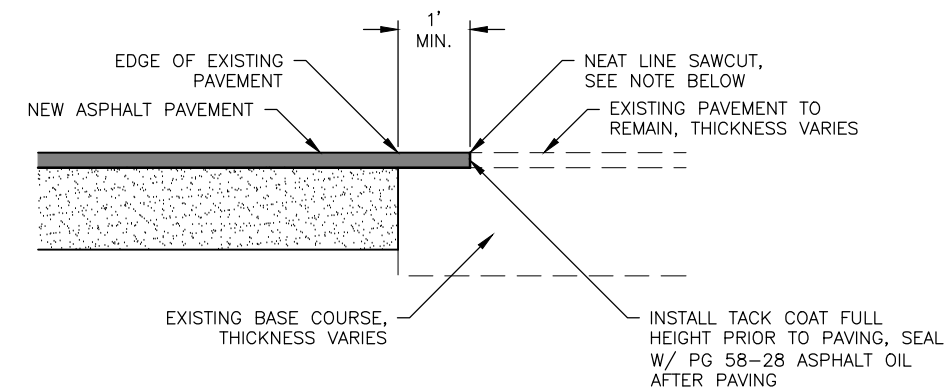


**4** **STANDARD CURB & GUTTER DETAIL**

SCALE: NOT TO SCALE

**DETAIL 4/10 NOTES:**

1. CONCRETE SHALL BE CLASS B COMMERCIAL CONCRETE, FIBER MESH REINFORCED.
2. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.
3. COLD JOINTS ARE REQUIRED EVERY 10' MAXIMUM. ALL JOINTS AND SEAMS SHALL BE EDGED.
4. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
5. MINIMUM LONGITUDINAL SLOPE FOR CURB AND GUTTER SHALL BE NO LESS THAN 0.5%.

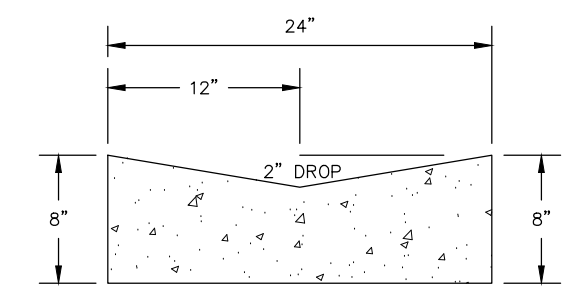


**3** **PAVEMENT MATCH JOINT**

SCALE: NOT TO SCALE

**DETAIL 3/10 NOTES:**

1. FINAL SAWCUT OF EXISTING ASPHALT SHALL NOT BE MADE UNTIL 24 HOURS PRIOR TO PAVING.



**5** **GUTTER DETAIL**

SCALE: NOT TO SCALE

**DETAIL 5/10 NOTES:**

1. CONCRETE SHALL BE CLASS B COMMERCIAL CONCRETE, FIBER MESH REINFORCED.
2. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.
3. COLD JOINTS ARE REQUIRED EVERY 10' MAXIMUM. ALL JOINTS AND SEAMS SHALL BE EDGED.
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**CONSTRUCTION DETAILS - 3**

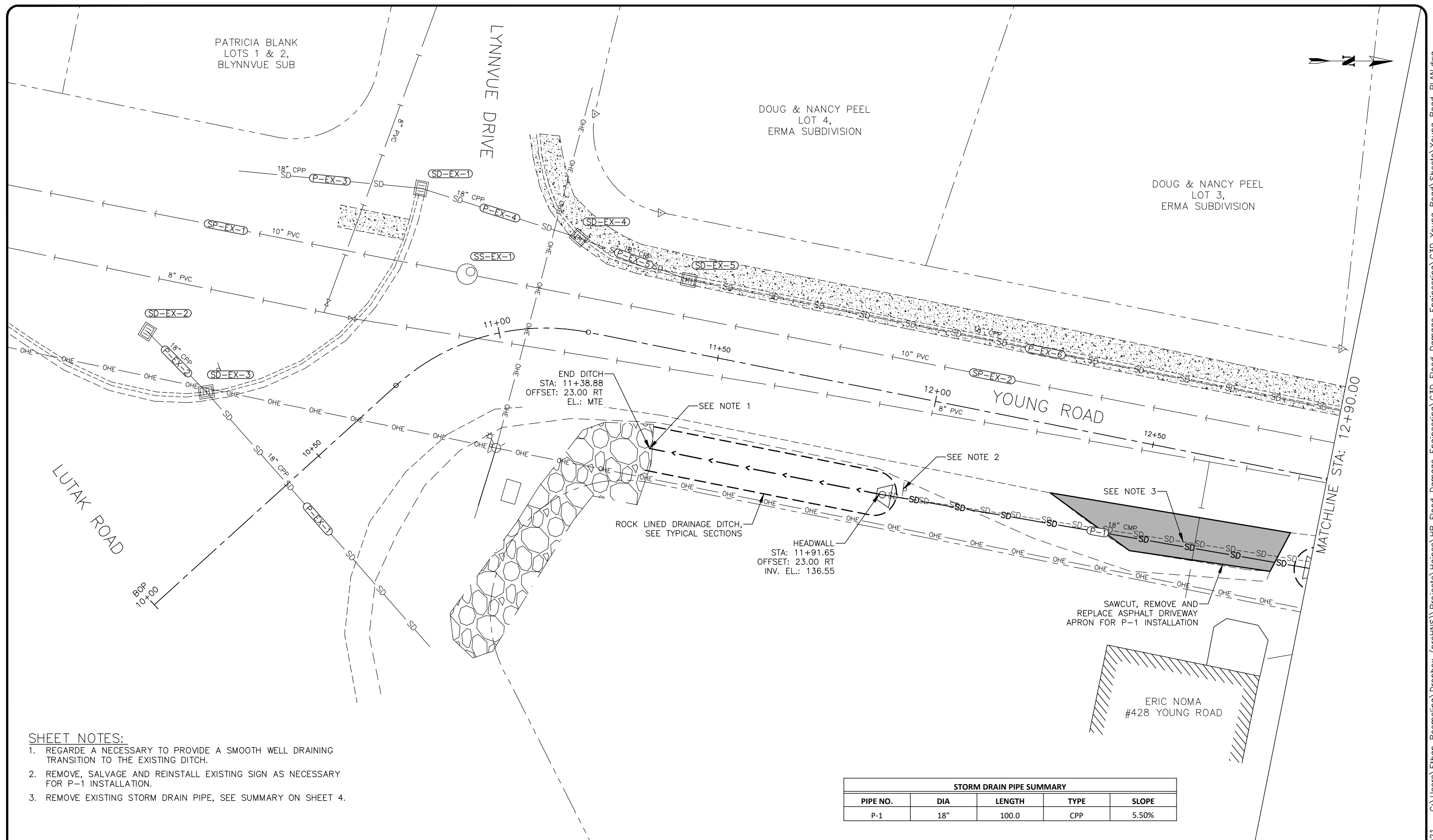
SHEET NUMBER	
10	OF
37	

PATRICIA BLANK  
LOTS 1 & 2,  
BLYNNVUE SUB

LYNNVUE DRIVE

DOUG & NANCY PEEL  
LOT 4,  
ERMA SUBDIVISION

DOUG & NANCY PEEL  
LOT 3,  
ERMA SUBDIVISION



**SHEET NOTES:**

1. REGARDE A NECESSARY TO PROVIDE A SMOOTH WELL DRAINING TRANSITION TO THE EXISTING DITCH.
2. REMOVE, SALVAGE AND REINSTALL EXISTING SIGN AS NECESSARY FOR P-1 INSTALLATION.
3. REMOVE EXISTING STORM DRAIN PIPE, SEE SUMMARY ON SHEET 4.

END DITCH  
STA: 11+38.88  
OFFSET: 23.00 RT  
EL.: MTE

HEADWALL  
STA: 11+91.65  
OFFSET: 23.00 RT  
INV. EL.: 136.55

SAWCUT, REMOVE AND  
REPLACE ASPHALT DRIVEWAY  
APRON FOR P-1 INSTALLATION

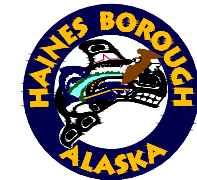
STORM DRAIN PIPE SUMMARY				
PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-1	18"	100.0	CPP	5.50%

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REPAIRS**

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**PLAN - BOP TO 12+90**



SHEET NUMBER	
11	OF
37	

**SHEET NOTES:**

1. PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES.
2. STORM DRAIN STRUCTURES STATION AND OFFSET ARE GIVEN TO THE CENTER OF THE STRUCTURE. LID ELEVATION IS GIVEN TO CENTER OF STRUCTURE. FRAME ELEVATION IS GIVEN TO THE TOP, FRONT OF FRAME.
3. PROVIDE ALL PIPE EXTENSIONS, ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS, AND DEPTHS.
4. INSTALL NEW WATER SERVICE, SEE SUMMARY ON SHEET 4.
5. HDPE PIPE DEFLECTIONS SHALL NOT EXCEED PIPE MANUFACTURERS RECOMMENDATIONS.
6. MAINTAIN AN 18" MINIMUM VERTICAL SEPARATION BETWEEN PROPOSED WATER PIPE AND ALL STORM OR SANITARY SEWER PIPE CROSSINGS.
7. REMOVE EXISTING STORM DRAIN PIPE, SEE SUMMARY ON SHEET 4.

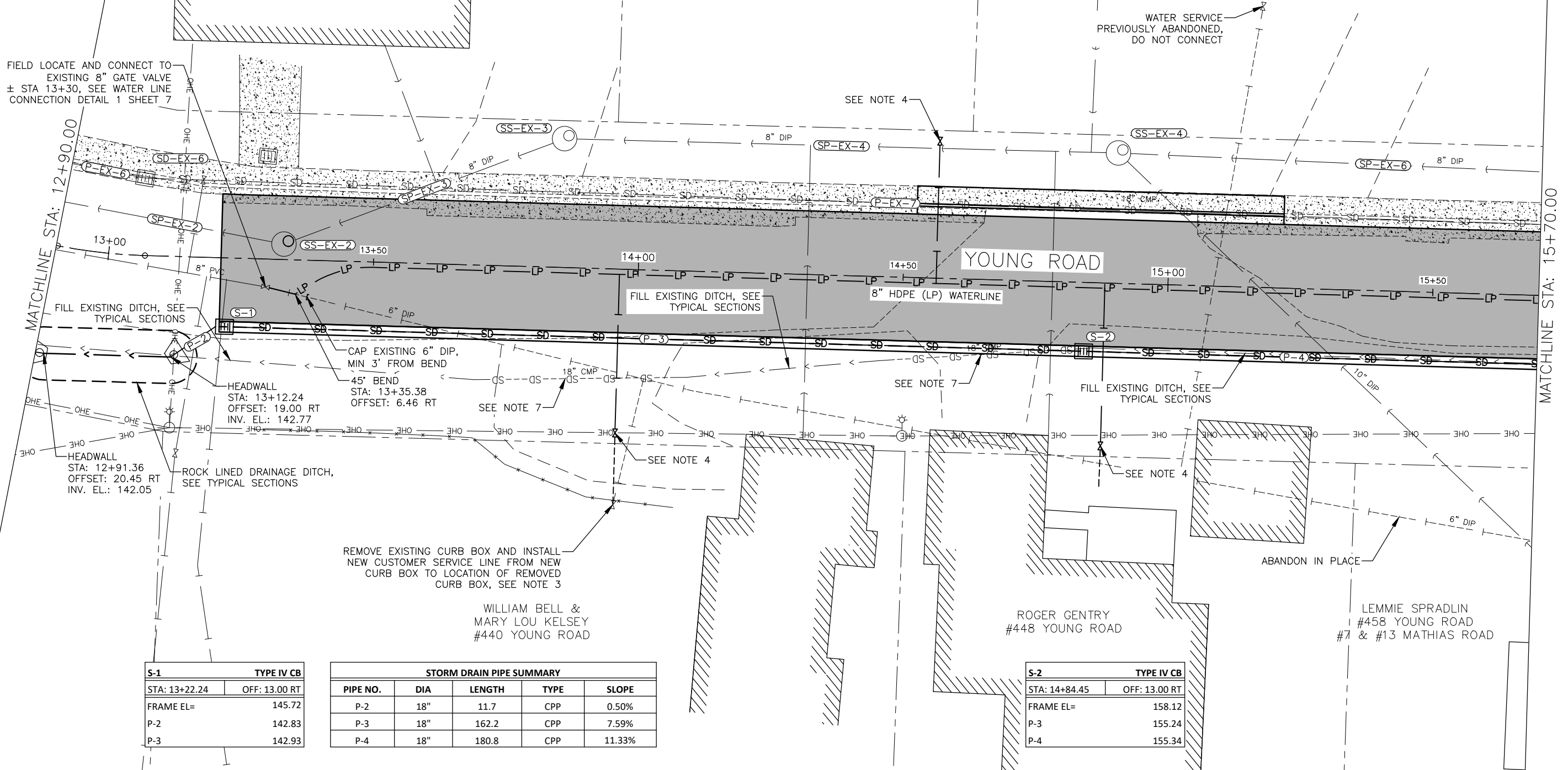


CHRISTOPHER &  
AMY THORGESEN  
#435 & #437  
YOUNG ROAD

SCHNABEL PAYSON  
LOT 1A,  
ERMA SUBDIVISION  
  
(NO EXISTING WATER OR SEWER  
SERVICE FOR THIS LOT)

ROGER & WENDY  
BERGSTRAND  
#453 YOUNG ROAD  
  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)

FIELD LOCATE AND CONNECT TO  
EXISTING 8" GATE VALVE  
± STA 13+30, SEE WATER LINE  
CONNECTION DETAIL 1 SHEET 7



S-1 TYPE IV CB	
STA: 13+22.24	OFF: 13.00 RT
FRAME EL=	145.72
P-2	142.83
P-3	142.93

STORM DRAIN PIPE SUMMARY				
PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-2	18"	11.7	CPP	0.50%
P-3	18"	162.2	CPP	7.59%
P-4	18"	180.8	CPP	11.33%

S-2 TYPE IV CB	
STA: 14+84.45	OFF: 13.00 RT
FRAME EL=	158.12
P-3	155.24
P-4	155.34

REMOVE EXISTING CURB BOX AND INSTALL  
NEW CUSTOMER SERVICE LINE FROM NEW  
CURB BOX TO LOCATION OF REMOVED  
CURB BOX, SEE NOTE 3

WILLIAM BELL &  
MARY LOU KELSEY  
#440 YOUNG ROAD

ROGER GENTRY  
#448 YOUNG ROAD

LEMMIE SPRADLIN  
#458 YOUNG ROAD  
& #13 MATHIAS ROAD

95%  
DRAFT  
FOR REVIEW ONLY

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSKO  
  
219 MAIN ST #13  
HAINEs, AK 99827  
1945 ALEX HOLDEN WAY #101  
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(907) 780-4004  
solutions@proHNS.com  
www.proHNS.com



**YOUNG ROAD  
REPAIRS**

P/W # 00024(435785)

**PLAN - 12+90 TO 15+70**



SHEET NUMBER	
12	OF
37	

**SHEET NOTES:**

1. PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES.
2. STORM DRAIN STRUCTURES STATION AND OFFSET ARE GIVEN TO THE CENTER OF THE STRUCTURE. LID ELEVATION IS GIVEN TO CENTER OF STRUCTURE. FRAME ELEVATION IS GIVEN TO THE TOP, FRONT OF FRAME.
3. PROVIDE ALL PIPE EXTENSIONS, ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS, AND DEPTHS.
4. INSTALL NEW WATER SERVICE, SEE SUMMARY ON SHEET 4.
5. LIMITS OF BASE BID SEWER WORK. ADD. ALT. 1 WORK SEE SHEET 19.
6. HDPE PIPE DEFLECTIONS SHALL NOT EXCEED PIPE MANUFACTURERS RECOMMENDATIONS.
7. MAINTAIN AN 18" MINIMUM VERTICAL SEPARATION BETWEEN PROPOSED WATER PIPE AND ALL STORM OR SANITARY SEWER PIPE CROSSINGS.
8. REMOVE EXISTING STORM DRAIN PIPE, SEE SUMMARY ON SHEET 4.



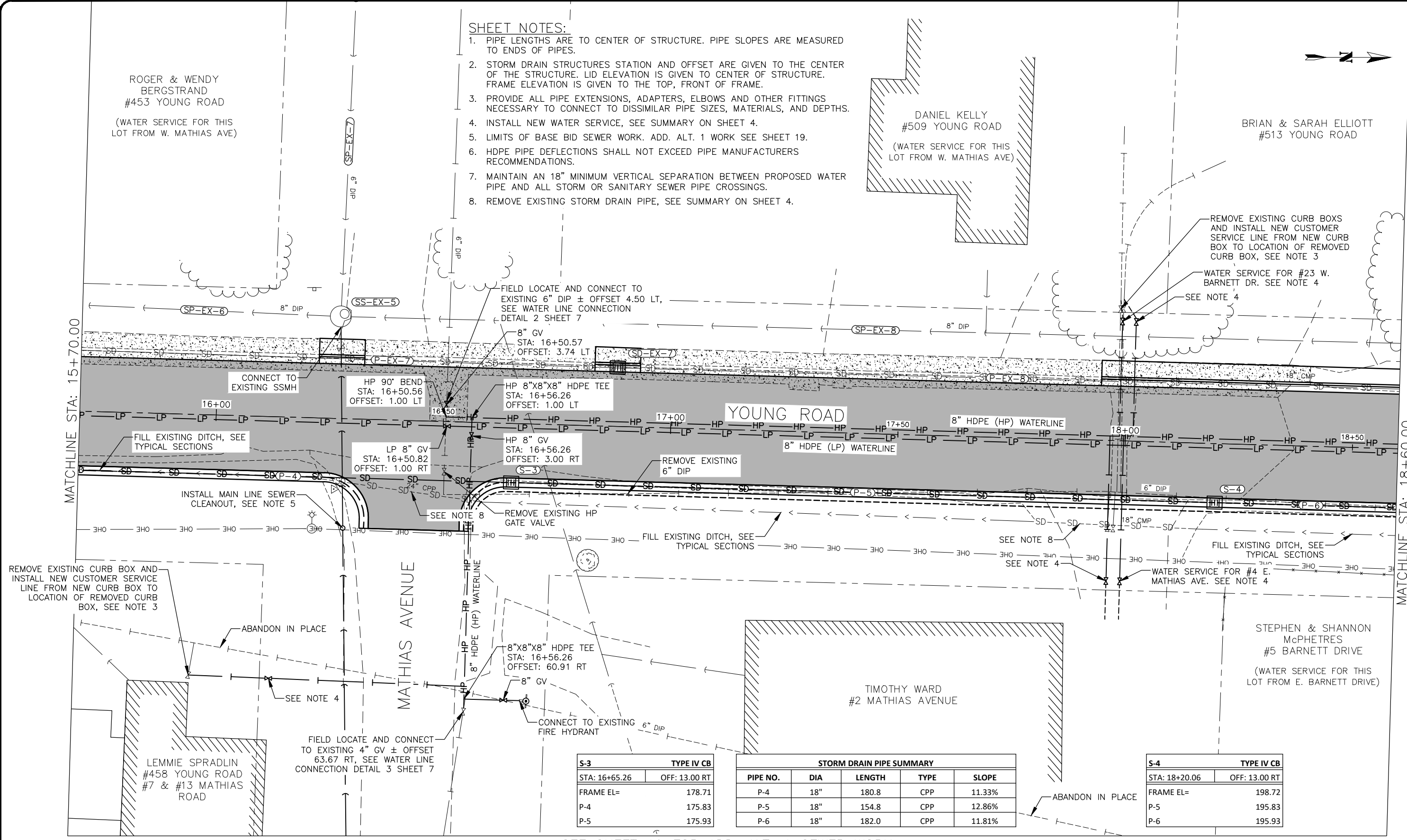
ROGER & WENDY BERGSTRAND  
#453 YOUNG ROAD  
(WATER SERVICE FOR THIS LOT FROM W. MATHIAS AVE)

DANIEL KELLY  
#509 YOUNG ROAD  
(WATER SERVICE FOR THIS LOT FROM W. MATHIAS AVE)

BRIAN & SARAH ELLIOTT  
#513 YOUNG ROAD

MATCHLINE STA: 15+70.00

MATCHLINE STA: 18+60.00



S-3		TYPE IV CB	
STA: 16+65.26	OFF: 13.00 RT		
FRAME EL=	178.71		
P-4	175.83		
P-5	175.93		

STORM DRAIN PIPE SUMMARY				
PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-4	18"	180.8	CPP	11.33%
P-5	18"	154.8	CPP	12.86%
P-6	18"	182.0	CPP	11.81%

S-4		TYPE IV CB	
STA: 18+20.06	OFF: 13.00 RT		
FRAME EL=	198.72		
P-5	195.83		
P-6	195.93		

SEE SHEET 19 FOR ADD. ALT. 1 SEWER WORK

95%  
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RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
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219 MAIN ST #13  
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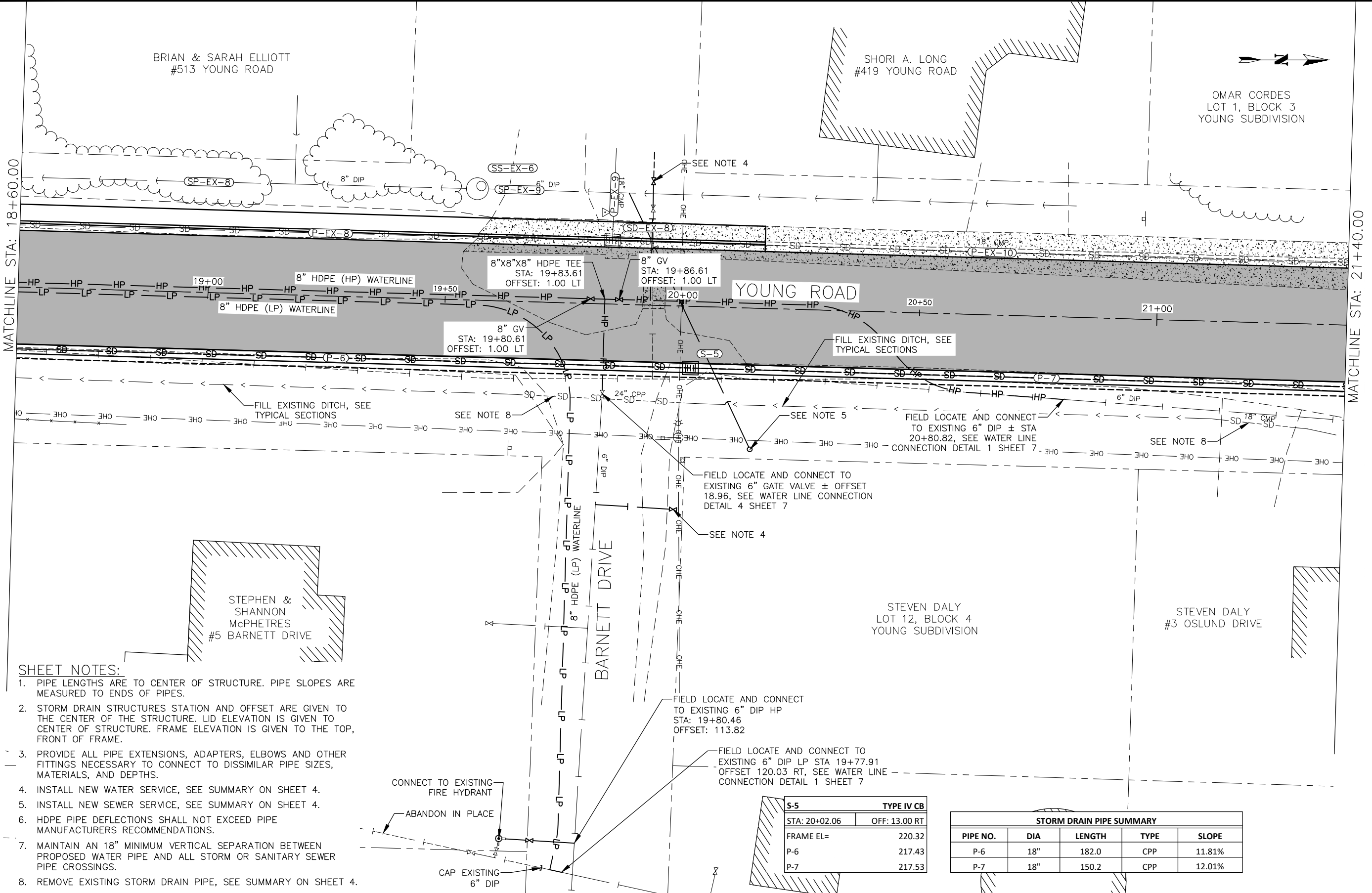


**YOUNG ROAD REPAIRS**  
P/W # 00024(435785)

**PLAN - 15+70 TO 18+60**



SHEET NUMBER  
**13**  
OF  
**37**



**SHEET NOTES:**

1. PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES.
2. STORM DRAIN STRUCTURES STATION AND OFFSET ARE GIVEN TO THE CENTER OF THE STRUCTURE. LID ELEVATION IS GIVEN TO CENTER OF STRUCTURE. FRAME ELEVATION IS GIVEN TO THE TOP, FRONT OF FRAME.
3. PROVIDE ALL PIPE EXTENSIONS, ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS, AND DEPTHS.
4. INSTALL NEW WATER SERVICE, SEE SUMMARY ON SHEET 4.
5. INSTALL NEW SEWER SERVICE, SEE SUMMARY ON SHEET 4.
6. HDPE PIPE DEFLECTIONS SHALL NOT EXCEED PIPE MANUFACTURERS RECOMMENDATIONS.
7. MAINTAIN AN 18" MINIMUM VERTICAL SEPARATION BETWEEN PROPOSED WATER PIPE AND ALL STORM OR SANITARY SEWER PIPE CROSSINGS.
8. REMOVE EXISTING STORM DRAIN PIPE, SEE SUMMARY ON SHEET 4.

S-5		TYPE IV CB	
STA: 20+02.06	OFF: 13.00 RT		
FRAME EL=		220.32	
P-6		217.43	
P-7		217.53	

STORM DRAIN PIPE SUMMARY				
PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-6	18"	182.0	CPP	11.81%
P-7	18"	150.2	CPP	12.01%

95%  
DRAFT  
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RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



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 DESIGNED BY: E. ROEMELING  
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**YOUNG ROAD REPAIRS**  
 P/W # 00024(435785)

**PLAN - 18+60 TO 21+40**



SHEET NUMBER  
**14**  
 OF  
**37**

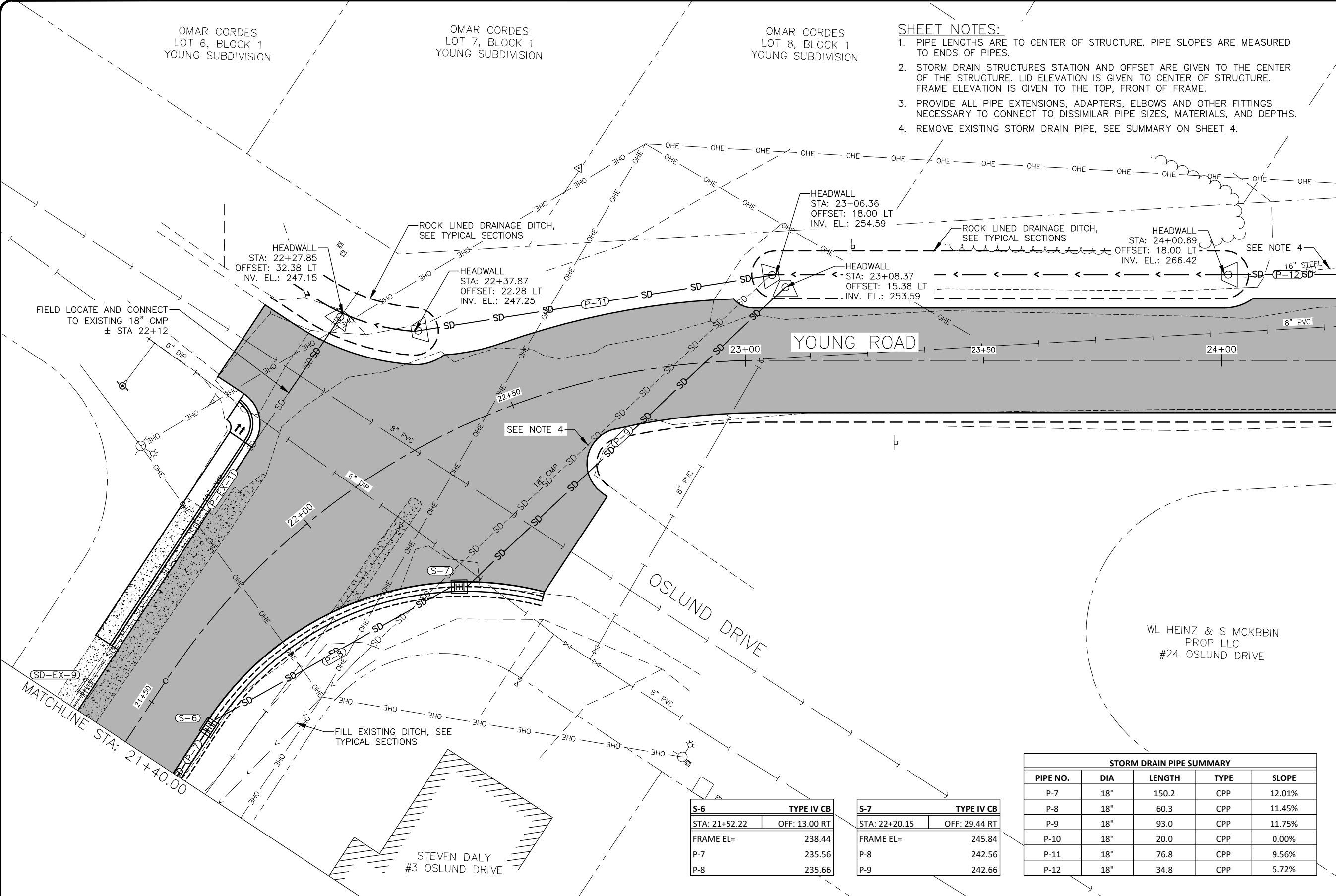
OMAR CORDES  
LOT 6, BLOCK 1  
YOUNG SUBDIVISION

OMAR CORDES  
LOT 7, BLOCK 1  
YOUNG SUBDIVISION

OMAR CORDES  
LOT 8, BLOCK 1  
YOUNG SUBDIVISION

**SHEET NOTES:**

1. PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES.
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3. PROVIDE ALL PIPE EXTENSIONS, ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS, AND DEPTHS.
4. REMOVE EXISTING STORM DRAIN PIPE, SEE SUMMARY ON SHEET 4.



MATCHLINE STA: 24+25.00

FIELD LOCATE AND CONNECT  
TO EXISTING 18" CMP  
± STA 22+12

HEADWALL  
STA: 22+27.85  
OFFSET: 32.38 LT  
INV. EL.: 247.15

HEADWALL  
STA: 22+37.87  
OFFSET: 22.28 LT  
INV. EL.: 247.25

HEADWALL  
STA: 23+06.36  
OFFSET: 18.00 LT  
INV. EL.: 254.59

HEADWALL  
STA: 23+08.37  
OFFSET: 15.38 LT  
INV. EL.: 253.59

HEADWALL  
STA: 24+00.69  
OFFSET: 18.00 LT  
INV. EL.: 266.42

WL HEINZ & S MCKBBIN  
PROP LLC  
#24 OSLUND DRIVE

STEVEN DALY  
#3 OSLUND DRIVE

S-6		TYPE IV CB	
STA: 21+52.22	OFF: 13.00 RT		
FRAME EL=	238.44		
P-7	235.56		
P-8	235.66		

S-7		TYPE IV CB	
STA: 22+20.15	OFF: 29.44 RT		
FRAME EL=	245.84		
P-8	242.56		
P-9	242.66		

STORM DRAIN PIPE SUMMARY				
PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-7	18"	150.2	CPP	12.01%
P-8	18"	60.3	CPP	11.45%
P-9	18"	93.0	CPP	11.75%
P-10	18"	20.0	CPP	0.00%
P-11	18"	76.8	CPP	9.56%
P-12	18"	34.8	CPP	5.72%

95%  
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FOR REVIEW ONLY

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY

proHNS LLC  
CERTIFICATE OF AUTHORIZATION  
#100662

DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSKO  
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**YOUNG ROAD  
REPAIRS**

P/W # 00024(435785)

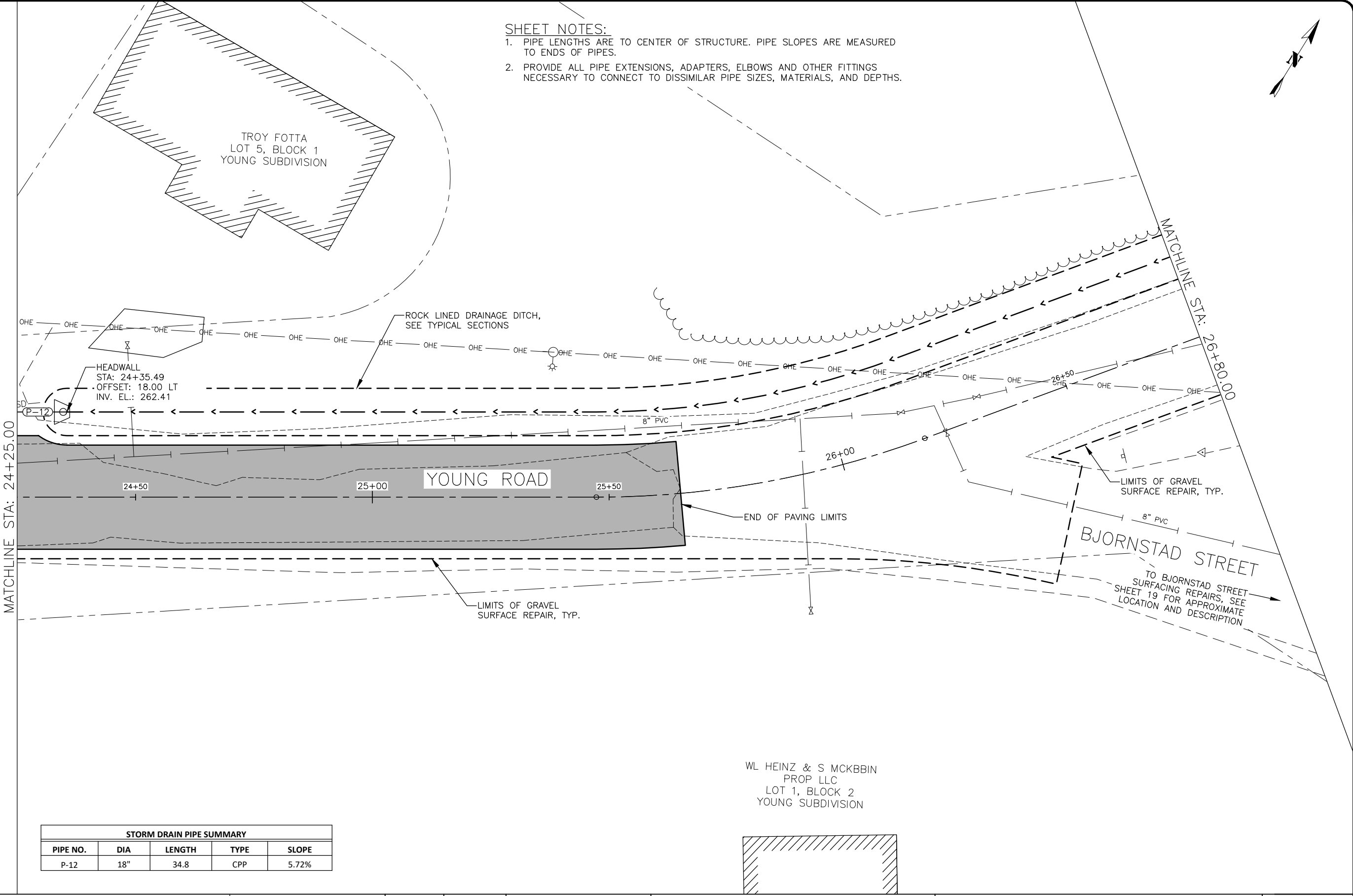
**PLAN - 21+40 TO 24+25**



SHEET NUMBER  
**15**  
OF  
**37**

**SHEET NOTES:**

1. PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES.
2. PROVIDE ALL PIPE EXTENSIONS, ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS, AND DEPTHS.

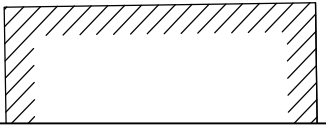


MATCHLINE STA: 24+25.00

MATCHLINE STA: 26+80.00

STORM DRAIN PIPE SUMMARY				
PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-12	18"	34.8	CPP	5.72%

WL HEINZ & S MCKBBIN  
PROP LLC  
LOT 1, BLOCK 2  
YOUNG SUBDIVISION



95%  
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No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

DRAWN BY: E. ROEMELING  
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**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

**PLAN - 24+25 TO 26+80**

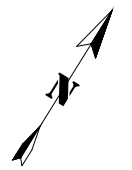


SHEET NUMBER	
16	OF
37	

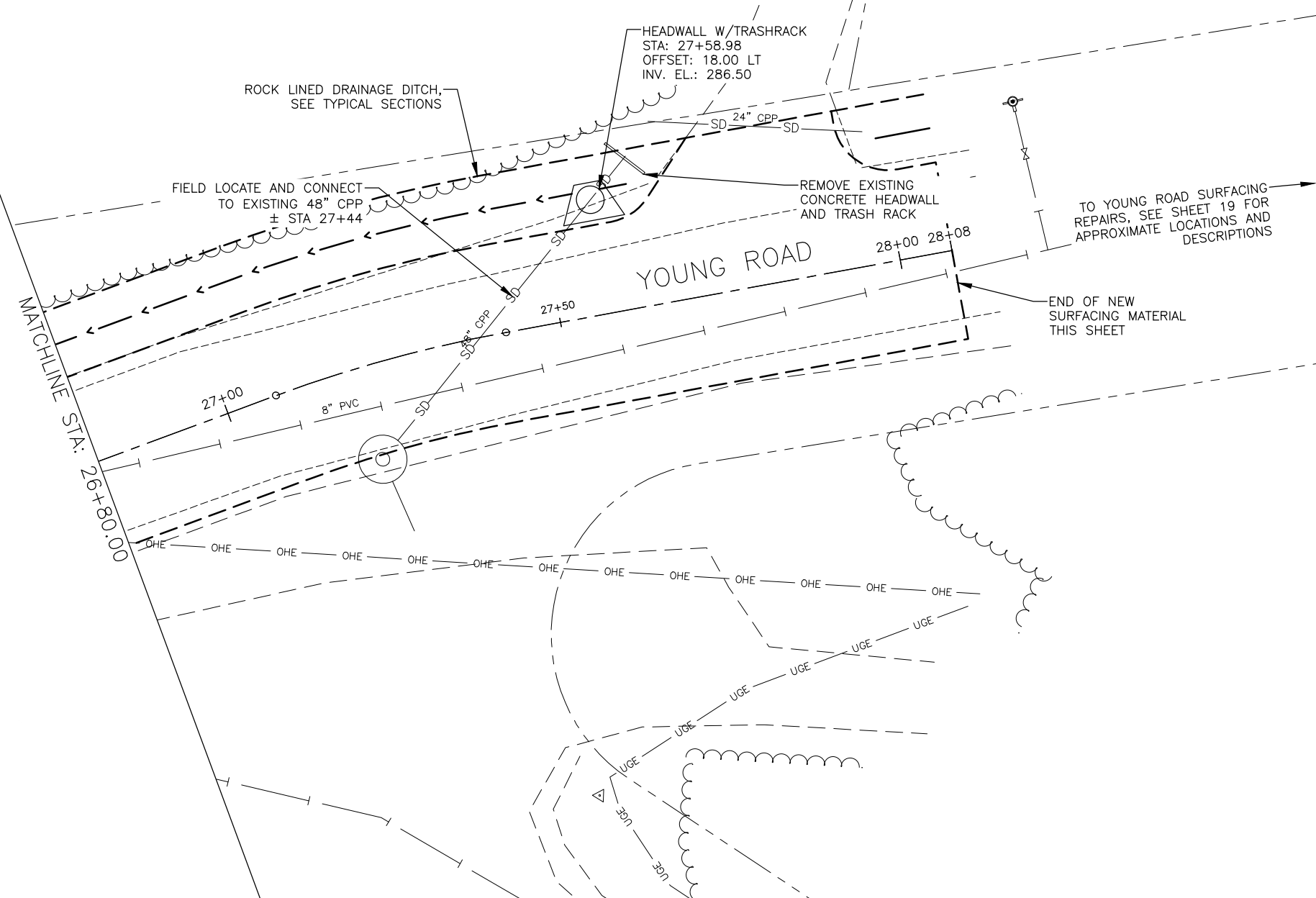


**SHEET NOTES:**

1. PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES.
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3. PROVIDE ALL PIPE EXTENSIONS, ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS, AND DEPTHS.



YNGVE OLSSON  
#811 YOUNG ROAD



95%  
DRAFT  
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No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

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**YOUNG ROAD  
REPAIRS**

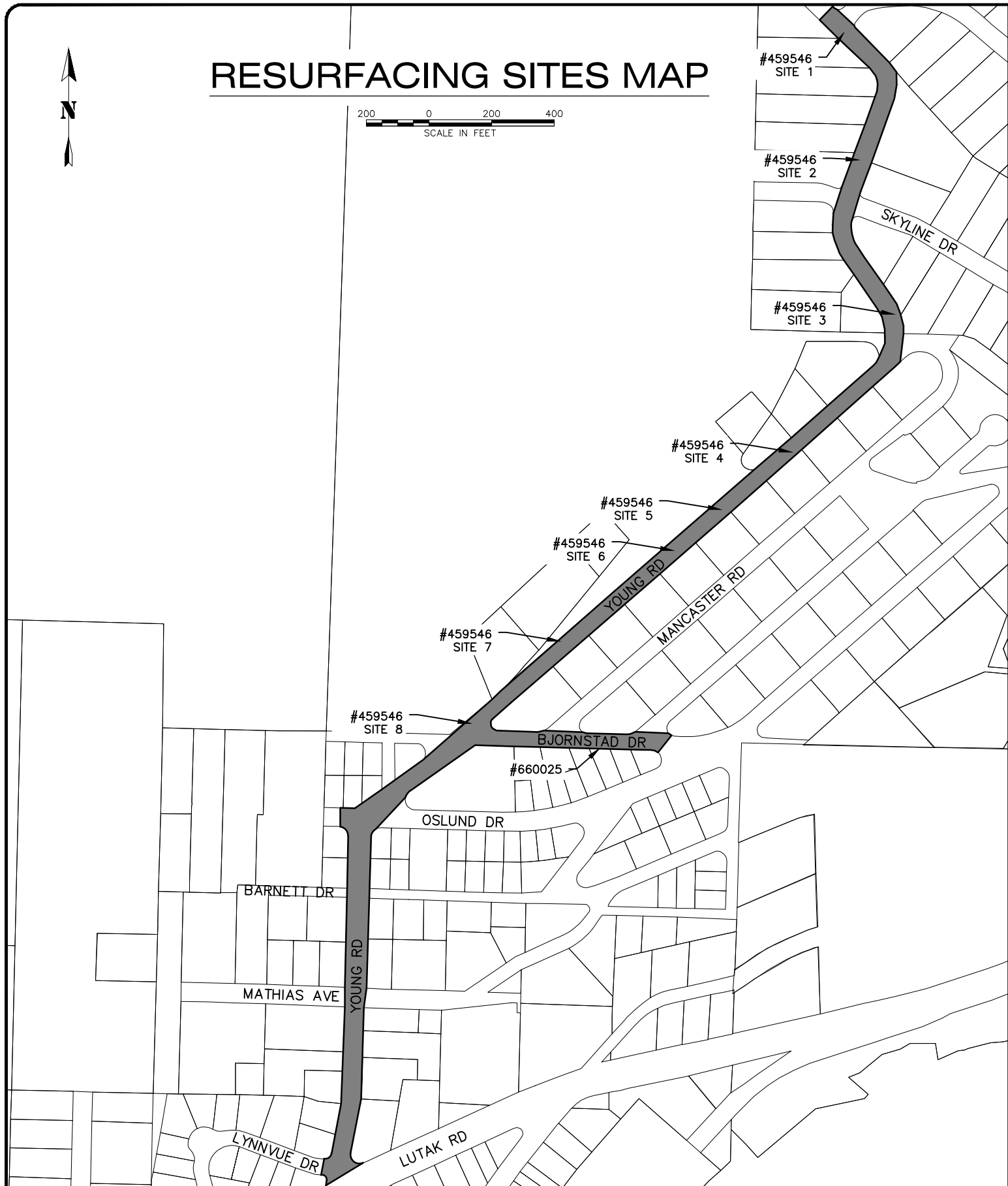
P/W # 00024(435785)

**PLAN - 26+80 TO EOP**



SHEET NUMBER
17
OF
37

# RESURFACING SITES MAP



### RESURFACING NOTES:

1. PLACE E-1 AT RESURFACING SITES TO REPAIR ROADWAY AND SHOULDER GULLIES, RILLS, AND ERODED EXISTING GRAVEL SURFACES ALONG YOUNG ROAD, OR AS DIRECTED BY THE ENGINEER.
2. PLACE, GRADE TO DRAIN, AND COMPACT E-1 TO THE SATISFACTION OF THE ENGINEER.
3. THICKNESS OF COMPACTED E-1 SHALL NOT EXCEED 6 INCHES UNLESS DIRECTED BY THE ENGINEER.

### RESURFACING SITES SUMMARY

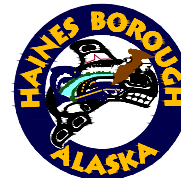
DAMAGE ID	SITE	ITEM DESCRIPTION	QUANTITY (TONS)
459546	1	AGGREGATE SURFACE COURSE, GRADING E-1	177
459546	2	AGGREGATE SURFACE COURSE, GRADING E-1	81
459546	3	AGGREGATE SURFACE COURSE, GRADING E-1	9
459546	4	AGGREGATE SURFACE COURSE, GRADING E-1	12
459546	5	AGGREGATE SURFACE COURSE, GRADING E-1	73
459546	6	AGGREGATE SURFACE COURSE, GRADING E-1	31
459546	7	AGGREGATE SURFACE COURSE, GRADING E-1	314
459546	8	AGGREGATE SURFACE COURSE, GRADING E-1	134
660025	1	AGGREGATE SURFACE COURSE, GRADING E-1	222

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RECORD OF REVISIONS			
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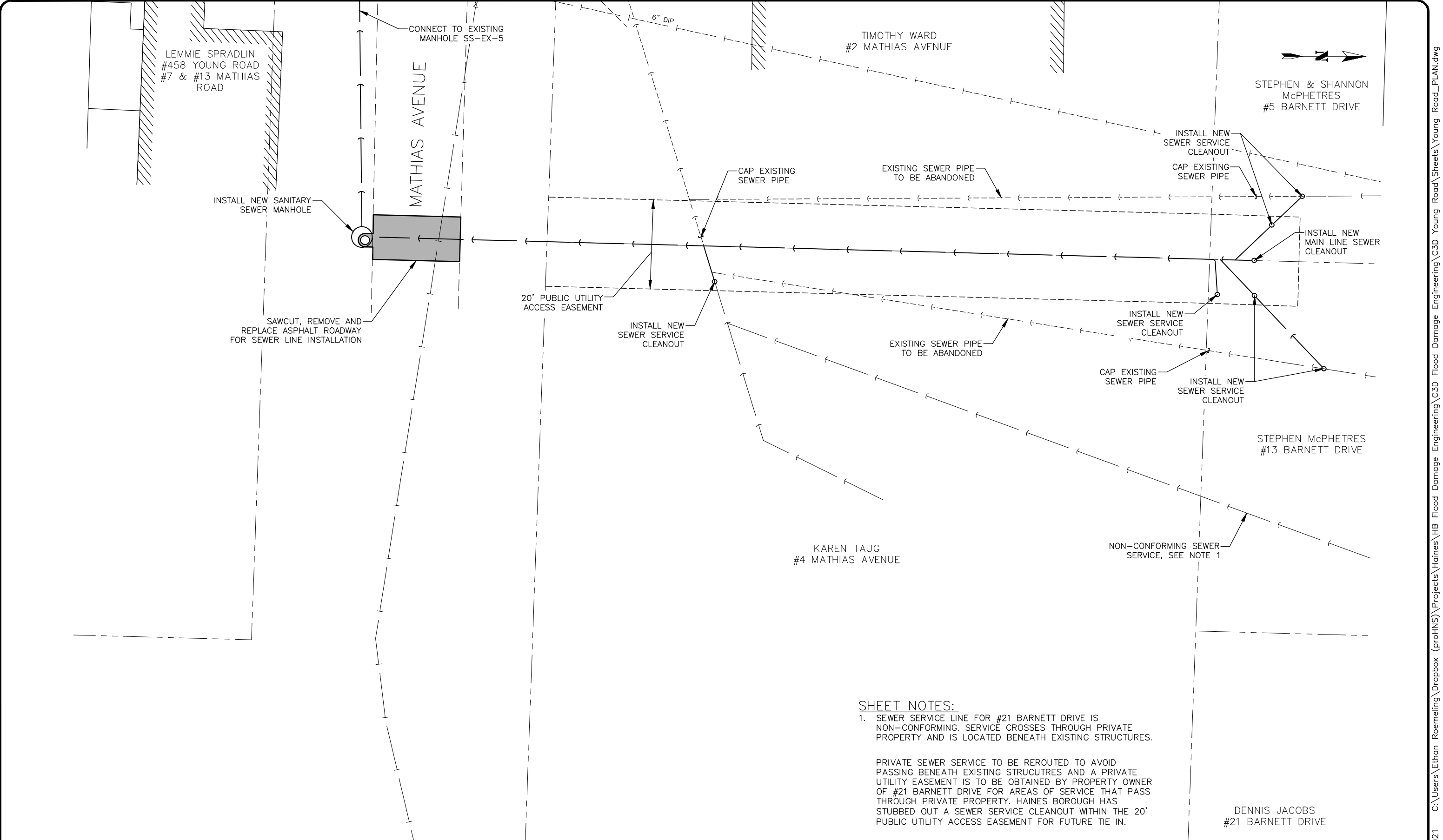


YOUNG ROAD  
REPAIRS

P/W # 00024(435785)

RESURFACING SITES  
SUMMARY

SHEET NUMBER	
18	OF
37	



**SHEET NOTES:**

1. SEWER SERVICE LINE FOR #21 BARNETT DRIVE IS NON-CONFORMING. SERVICE CROSSES THROUGH PRIVATE PROPERTY AND IS LOCATED BENEATH EXISTING STRUCTURES.

PRIVATE SEWER SERVICE TO BE REROUTED TO AVOID PASSING BENEATH EXISTING STRUCTURES AND A PRIVATE UTILITY EASEMENT IS TO BE OBTAINED BY PROPERTY OWNER OF #21 BARNETT DRIVE FOR AREAS OF SERVICE THAT PASS THROUGH PRIVATE PROPERTY. HAINES BOROUGH HAS STUBBED OUT A SEWER SERVICE CLEANOUT WITHIN THE 20' PUBLIC UTILITY ACCESS EASEMENT FOR FUTURE TIE IN.

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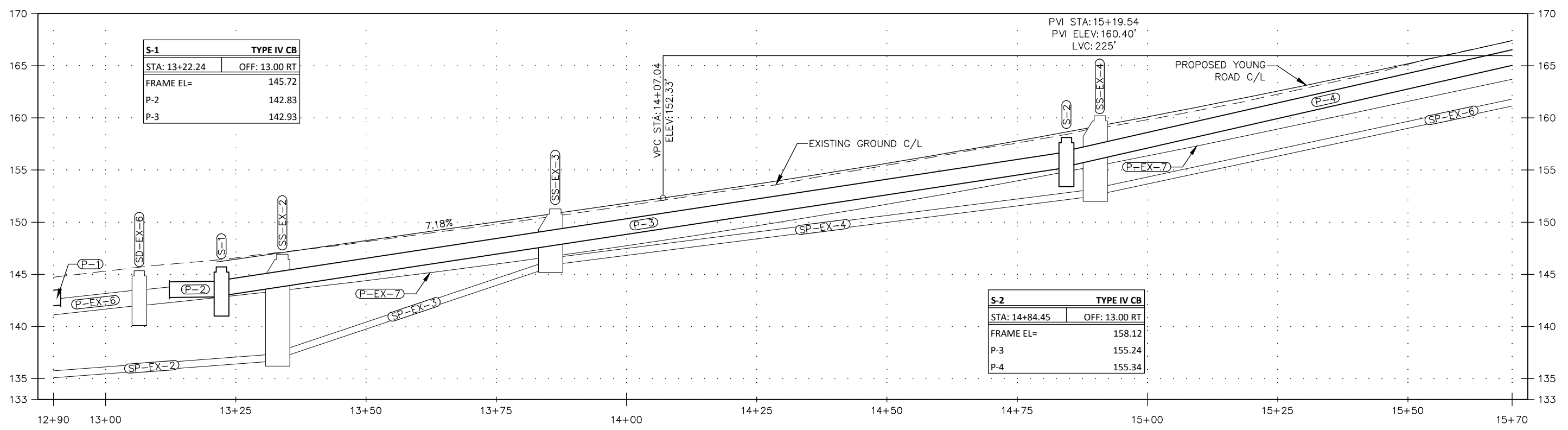
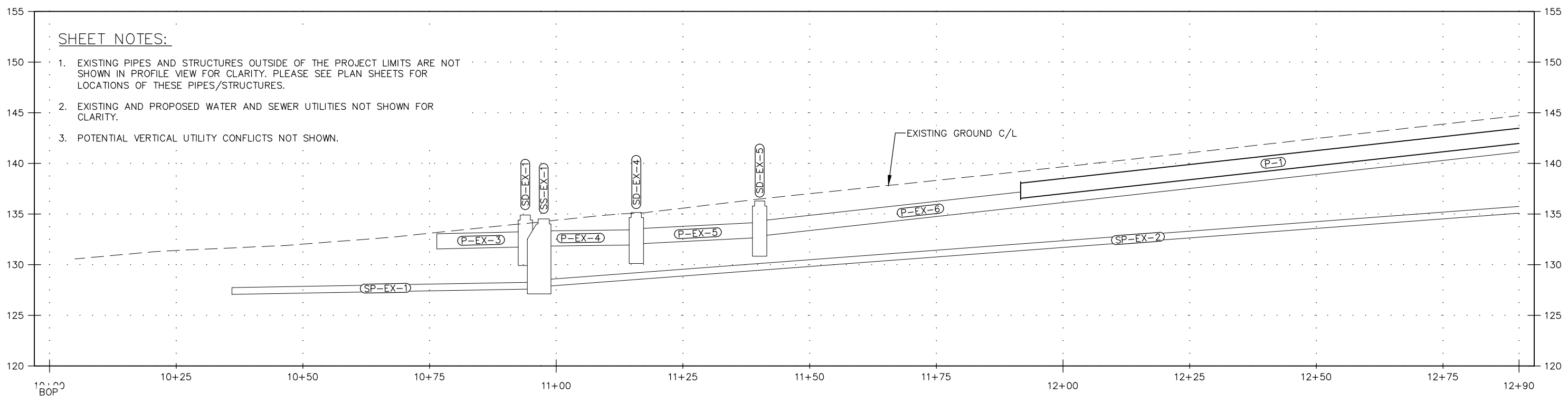
**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

**ADD. ALT. 1 SEWER WORK**



SHEET NUMBER
19
OF
37



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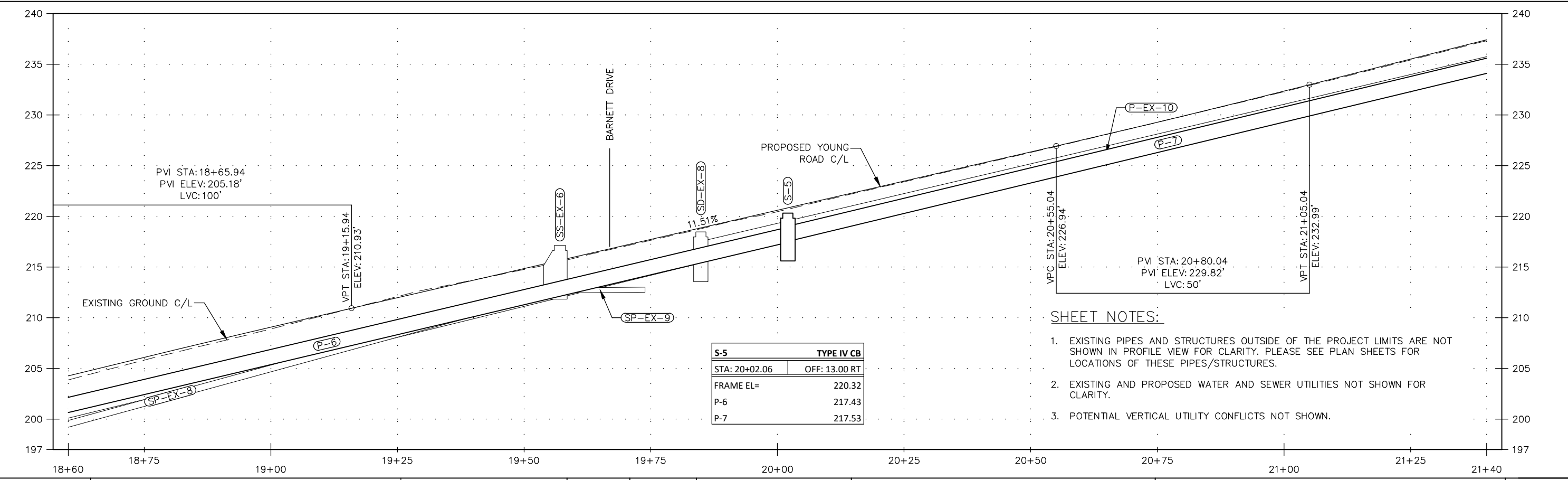
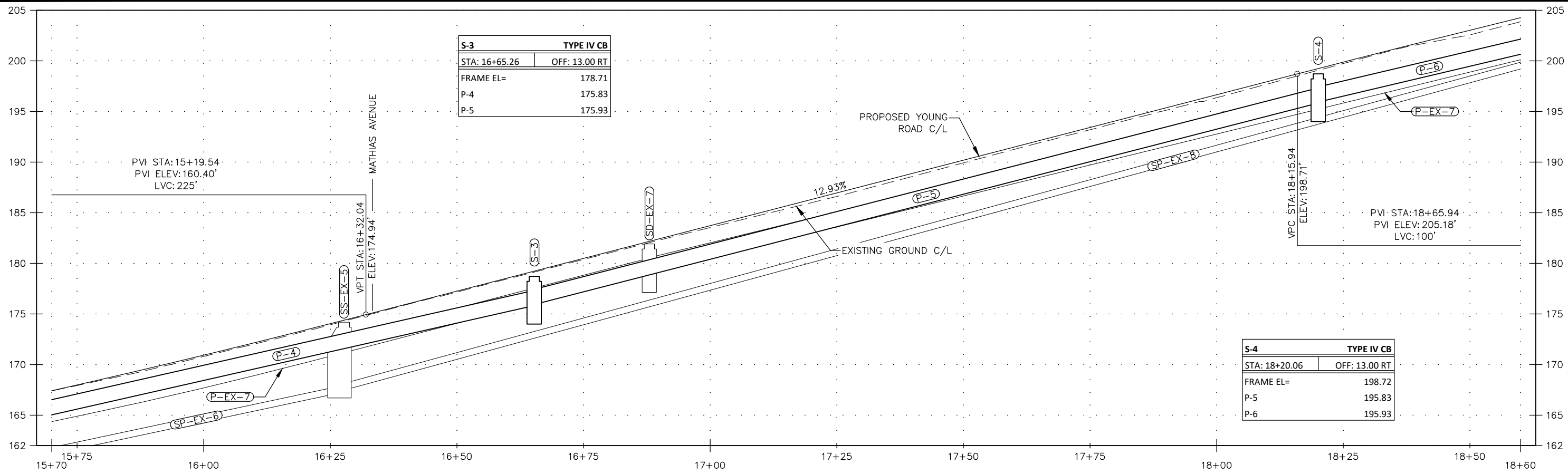


## YOUNG ROAD REPAIRS

P/W # 00024(435785)

## PROFILE - BOP TO 15+70

SHEET NUMBER	
20	OF
37	




**SHEET NOTES:**

1. EXISTING PIPES AND STRUCTURES OUTSIDE OF THE PROJECT LIMITS ARE NOT SHOWN IN PROFILE VIEW FOR CLARITY. PLEASE SEE PLAN SHEETS FOR LOCATIONS OF THESE PIPES/STRUCTURES.
2. EXISTING AND PROPOSED WATER AND SEWER UTILITIES NOT SHOWN FOR CLARITY.
3. POTENTIAL VERTICAL UTILITY CONFLICTS NOT SHOWN.

95%  
DRAFT  
FOR REVIEW ONLY

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



219 MAIN ST #13  
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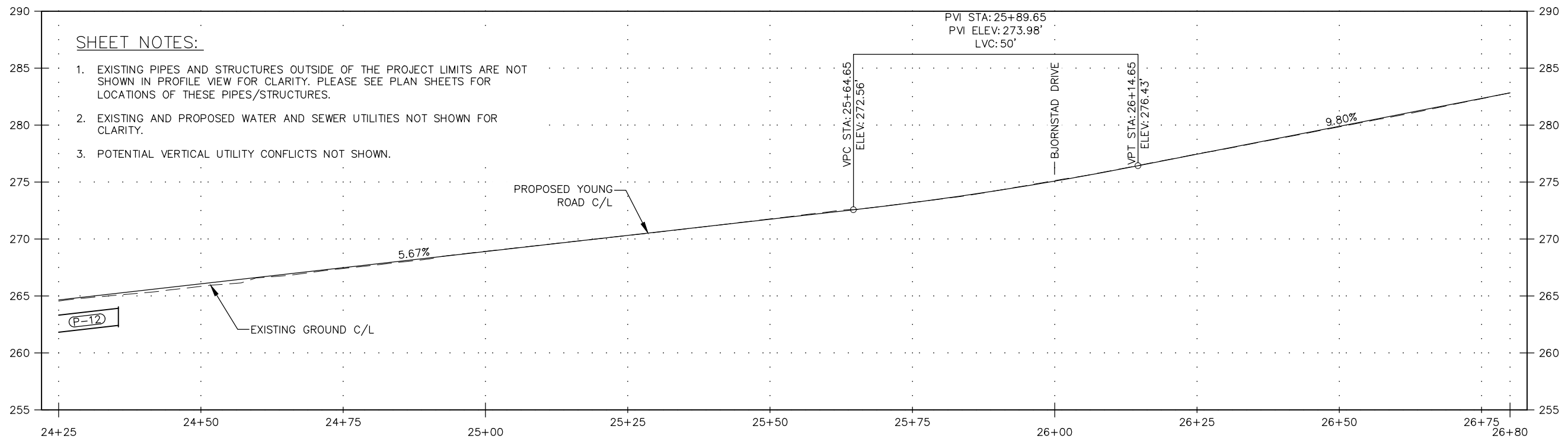
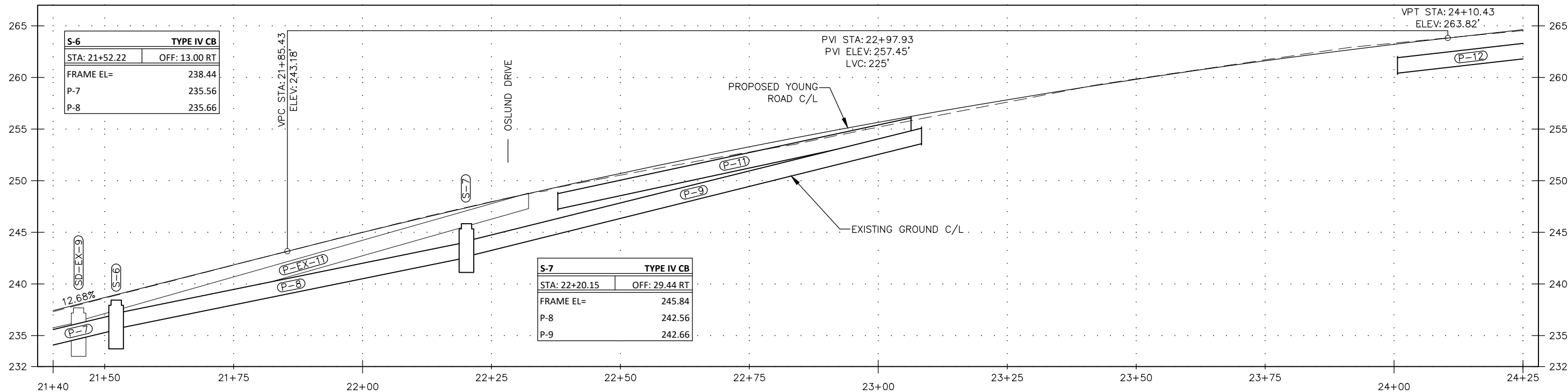
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DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSKO



**YOUNG ROAD REPAIRS**  
P/W # 00024(435785)

**PROFILE - 15+70 TO 21+40**

SHEET NUMBER	
21	OF
37	



**SHEET NOTES:**

1. EXISTING PIPES AND STRUCTURES OUTSIDE OF THE PROJECT LIMITS ARE NOT SHOWN IN PROFILE VIEW FOR CLARITY. PLEASE SEE PLAN SHEETS FOR LOCATIONS OF THESE PIPES/STRUCTURES.
2. EXISTING AND PROPOSED WATER AND SEWER UTILITIES NOT SHOWN FOR CLARITY.
3. POTENTIAL VERTICAL UTILITY CONFLICTS NOT SHOWN.

95%  
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RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



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**YOUNG ROAD REPAIRS**

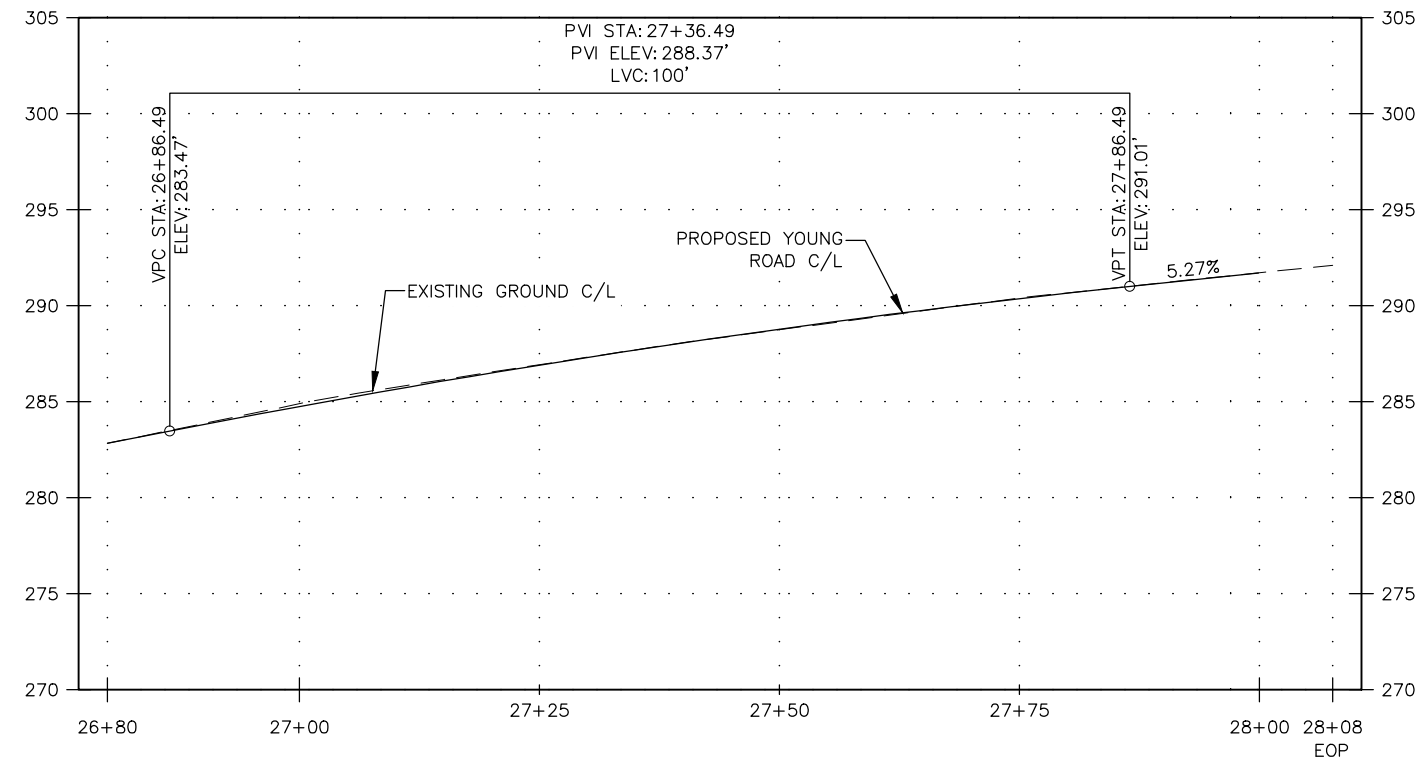
P/W # 00024(435785)

**PROFILE - 21+40 TO 26+80**

SHEET NUMBER	
22	OF
37	

**SHEET NOTES:**

- EXISTING PIPES AND STRUCTURES OUTSIDE OF THE PROJECT LIMITS ARE NOT SHOWN IN PROFILE VIEW FOR CLARITY. PLEASE SEE PLAN SHEETS FOR LOCATIONS OF THESE PIPES/STRUCTURES.



95%  
DRAFT  
FOR REVIEW ONLY

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION #100662

DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSJO  
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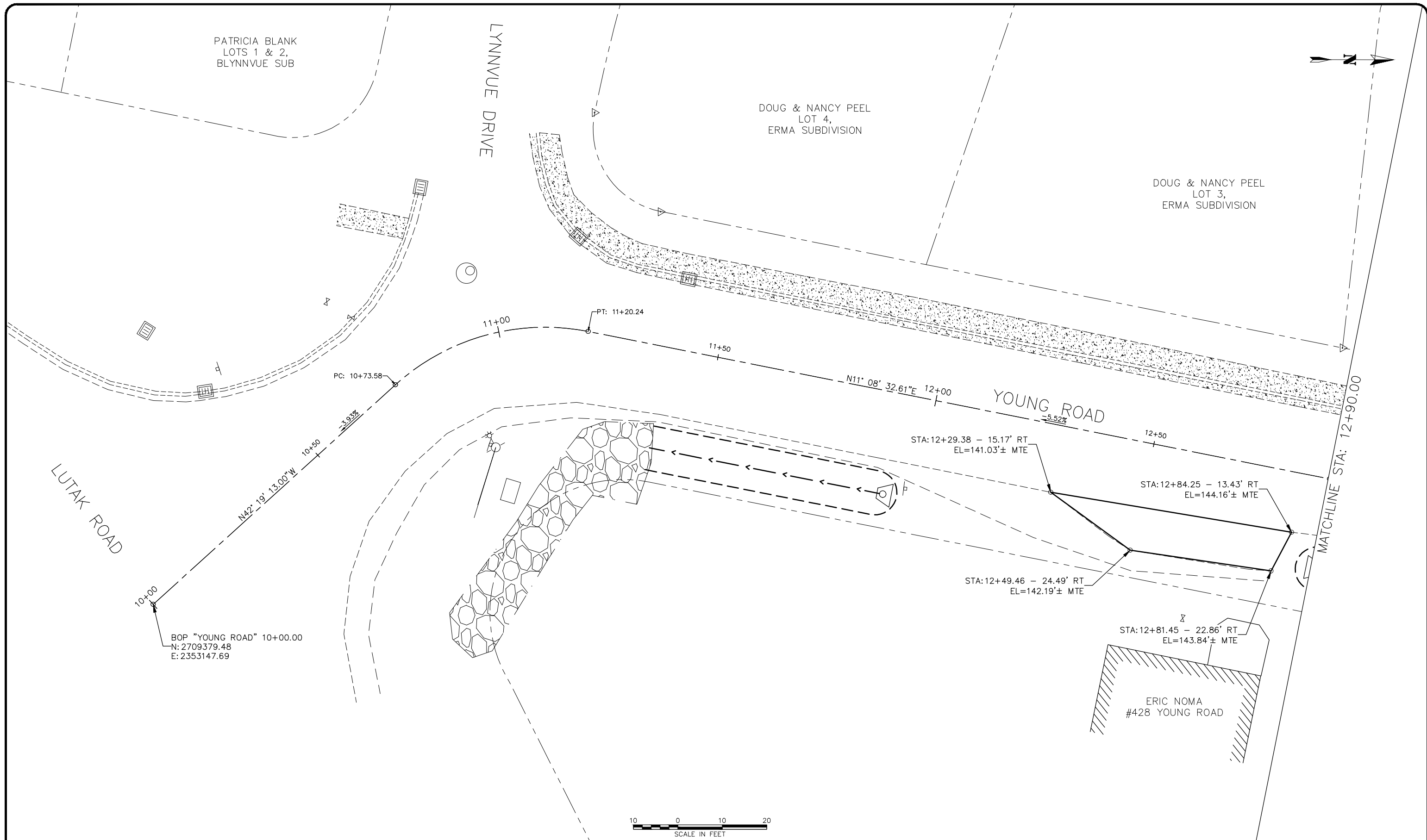


**YOUNG ROAD REPAIRS**

P/W # 00024(435785)


**PROFILE - 26+80 TO EOP**

SHEET NUMBER
23
OF
37



95%  
DRAFT  
FOR REVIEW ONLY

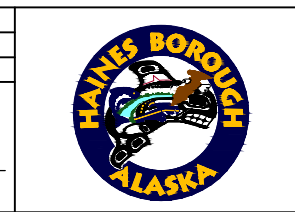
RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



proHNS LLC  
 CERTIFICATE OF AUTHORIZATION  
 #100662

DRAWN BY:	E. ROEMELING
DESIGNED BY:	E. ROEMELING
CHECKED BY:	G. GLADSJO

219 MAIN ST #13  
 HAINES, AK 99827  
 1945 ALEX HOLDEN WAY #101  
 JUNEAU, AK 99801  
 (907) 780-4004  
 solutions@proHNS.com  
 www.proHNS.com



**YOUNG ROAD  
REPAIRS**

P/W # 00024(435785)

**GRADING - BOP TO  
12+90**

SHEET NUMBER	
24	OF
37	



**SHEET NOTES:**

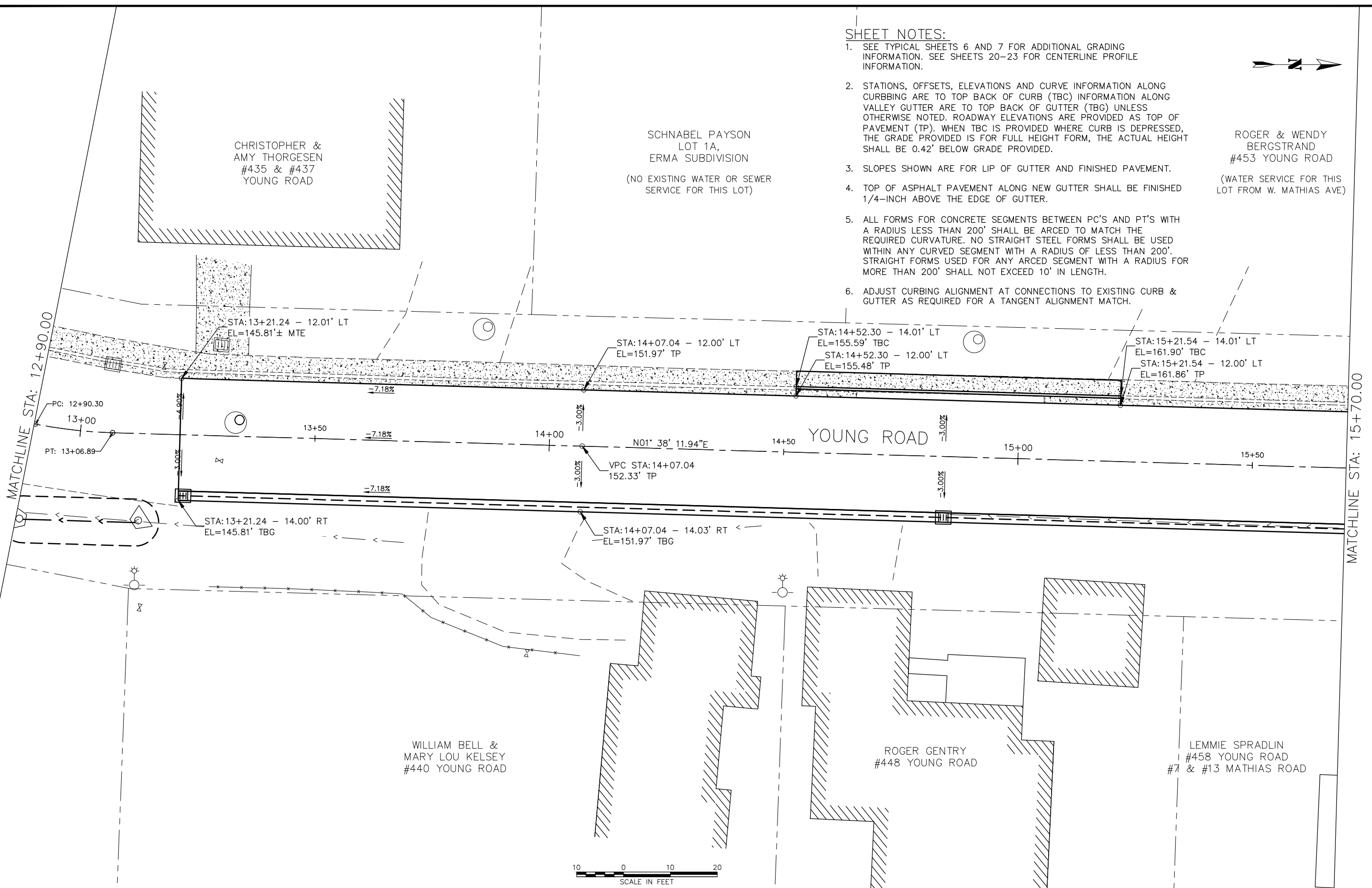
- SEE TYPICAL SHEETS 6 AND 7 FOR ADDITIONAL GRADING INFORMATION. SEE SHEETS 20-23 FOR CENTERLINE PROFILE INFORMATION.
- STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBBING ARE TO TOP BACK OF CURB (TBC) INFORMATION ALONG VALLEY GUTTER ARE TO TOP BACK OF GUTTER (TBG) UNLESS OTHERWISE NOTED. ROADWAY ELEVATIONS ARE PROVIDED AS TOP OF PAVEMENT (TP). WHEN TBC IS PROVIDED WHERE CURB IS DEPRESSED, THE GRADE PROVIDED IS FOR FULL HEIGHT FORM, THE ACTUAL HEIGHT SHALL BE 0.42' BELOW GRADE PROVIDED.
- SLOPES SHOWN ARE FOR LIP OF GUTTER AND FINISHED PAVEMENT.
- TOP OF ASPHALT PAVEMENT ALONG NEW GUTTER SHALL BE FINISHED 1/4-INCH ABOVE THE EDGE OF GUTTER.
- ALL FORMS FOR CONCRETE SEGMENTS BETWEEN PC'S AND PT'S WITH A RADIUS LESS THAN 200' SHALL BE ARCED TO MATCH THE REQUIRED CURVATURE. NO STRAIGHT STEEL FORMS SHALL BE USED WITHIN ANY CURVED SEGMENT WITH A RADIUS OF LESS THAN 200'. STRAIGHT FORMS USED FOR ANY ARCED SEGMENT WITH A RADIUS FOR MORE THAN 200' SHALL NOT EXCEED 10' IN LENGTH.
- ADJUST CURBBING ALIGNMENT AT CONNECTIONS TO EXISTING CURB & GUTTER AS REQUIRED FOR A TANGENT ALIGNMENT MATCH.



CHRISTOPHER &  
AMY THORGESEN  
#435 & #437  
YOUNG ROAD

SCHNABEL PAYSON  
LOT 1A,  
ERMA SUBDIVISION  
(NO EXISTING WATER OR SEWER  
SERVICE FOR THIS LOT)

ROGER & WENDY  
BERGSTRAND  
#453 YOUNG ROAD  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)

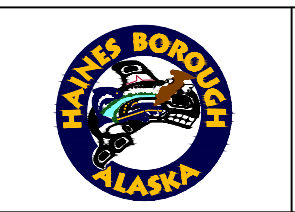


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DRAFT  
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RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSKO  
219 MAIN ST #13  
HAINES, AK 99827  
1945 ALEX HOLDEN WAY #101  
JUNEAU, AK 99801  
(907) 780-4004  
solutions@proHNS.com  
www.proHNS.com



**YOUNG ROAD  
REPAIRS**  
P/W # 00024(435785)

**GRADING - 12+90 TO  
15+70**

SHEET NUMBER	25
OF	37

- SHEET NOTES:**
- SEE TYPICAL SHEETS 6 AND 7 FOR ADDITIONAL GRADING INFORMATION. SEE SHEETS 20-23 FOR CENTERLINE PROFILE INFORMATION.
  - STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBBING ARE TO TOP BACK OF CURB (TBC) INFORMATION ALONG VALLEY GUTTER ARE TO TOP BACK OF GUTTER (TBG) UNLESS OTHERWISE NOTED. ROADWAY ELEVATIONS ARE PROVIDED AS TOP OF PAVEMENT (TP). WHEN TBC IS PROVIDED WHERE CURB IS DEPRESSED, THE GRADE PROVIDED IS FOR FULL HEIGHT FORM, THE ACTUAL HEIGHT SHALL BE 0.42' BELOW GRADE PROVIDED.
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  - ADJUST CURBBING ALIGNMENT AT CONNECTIONS TO EXISTING CURB & GUTTER AS REQUIRED FOR A TANGENT ALIGNMENT MATCH.

ROGER & WENDY  
BERGSTRAND  
#453 YOUNG ROAD  
  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)

DANIEL KELLY  
#509 YOUNG ROAD  
  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)

BRIAN & SARAH ELLIOTT  
#513 YOUNG ROAD

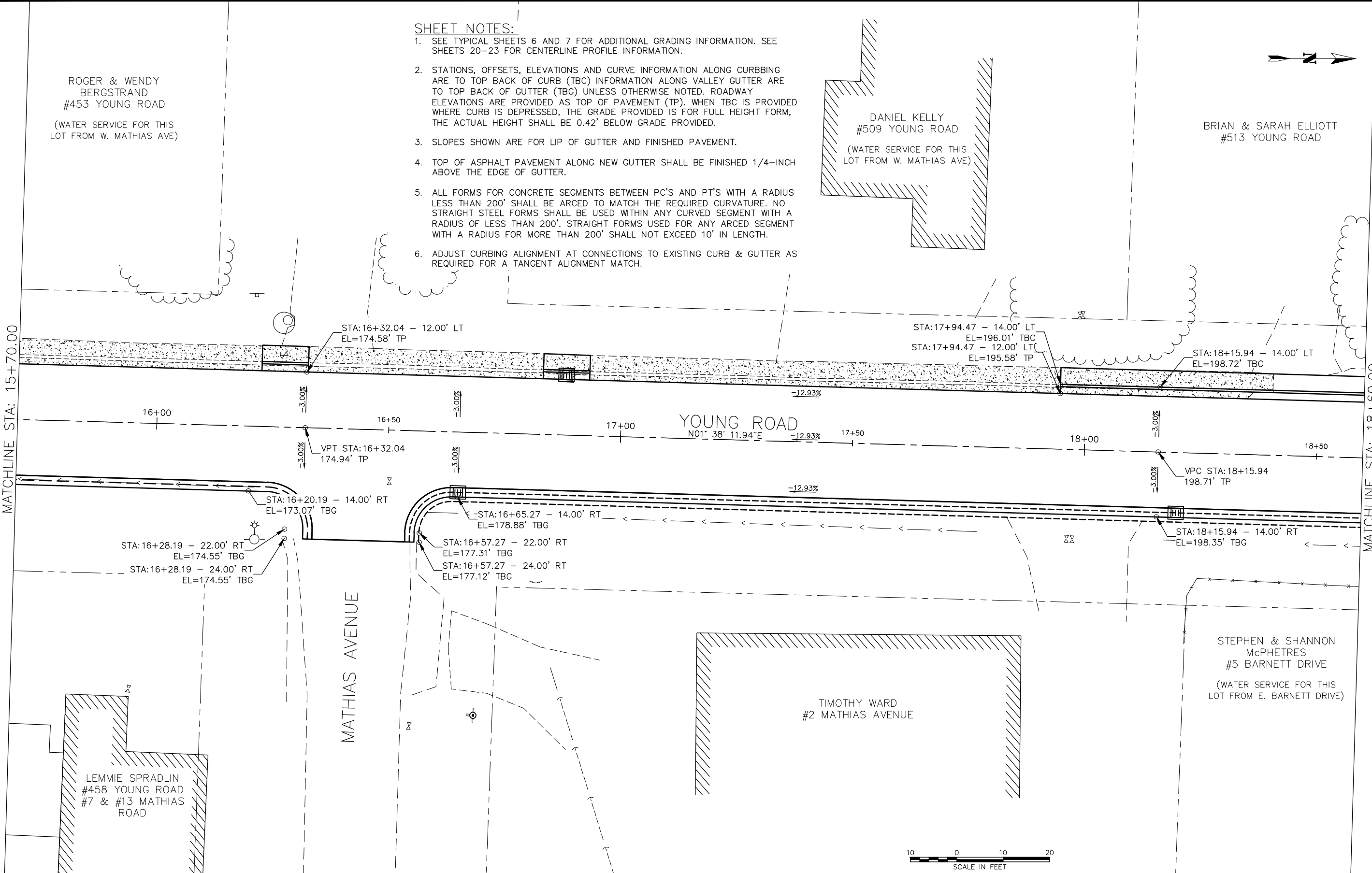
LEMMIE SPRADLIN  
#458 YOUNG ROAD  
#7 & #13 MATHIAS  
ROAD

TIMOTHY WARD  
#2 MATHIAS AVENUE

STEPHEN & SHANNON  
McPHETRES  
#5 BARNETT DRIVE  
  
(WATER SERVICE FOR THIS  
LOT FROM E. BARNETT DRIVE)

MATCHLINE STA: 15+70.00

MATCHLINE STA: 18+60.00



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1945 ALEX HOLDEN WAY #101  
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DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADs,JO



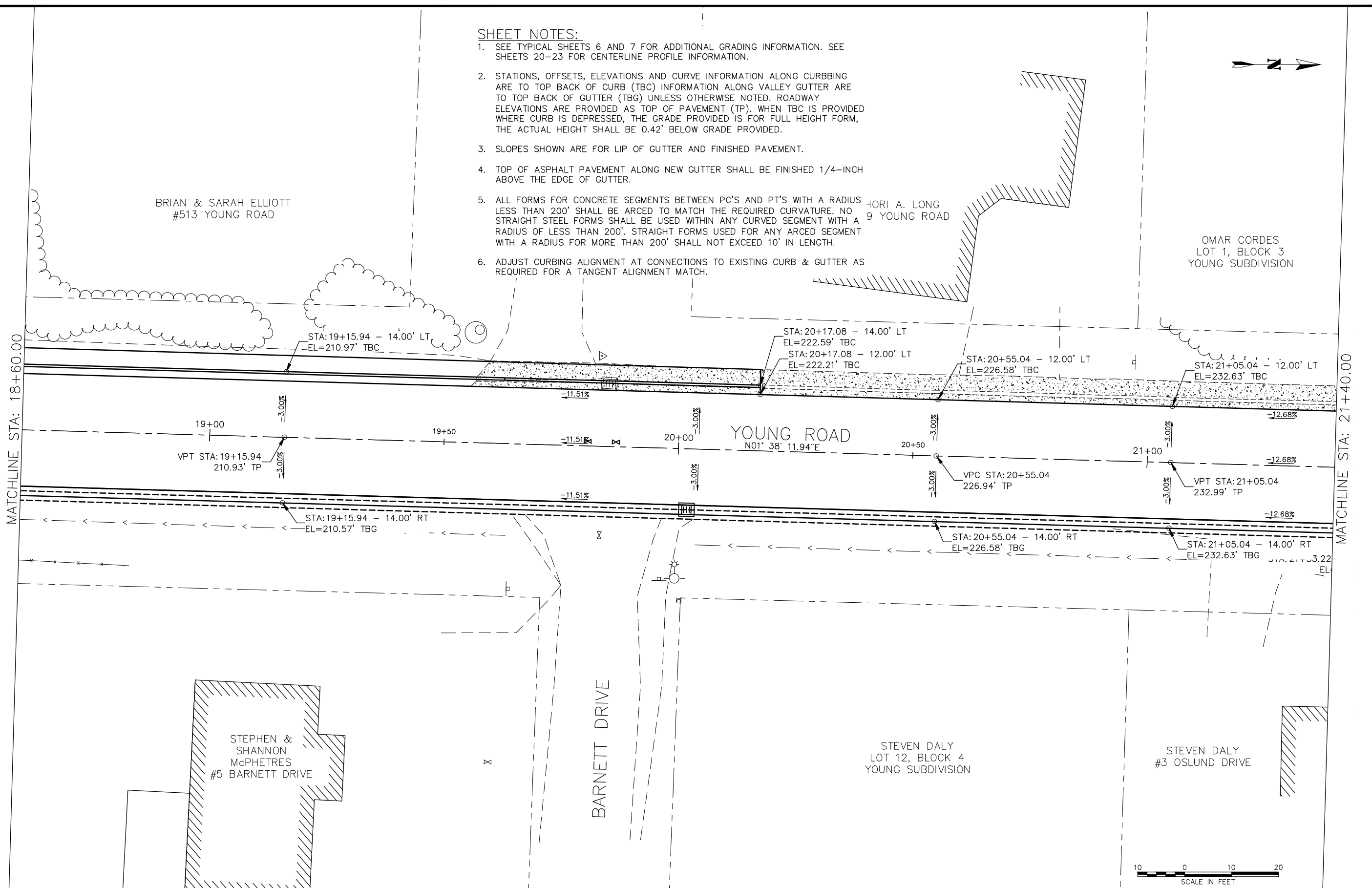
**YOUNG ROAD  
REPAIRS**  
  
P/W # 00024(435785)

**GRADING - 15+70 TO  
18+60**

SHEET NUMBER	
26	OF
37	

**SHEET NOTES:**

1. SEE TYPICAL SHEETS 6 AND 7 FOR ADDITIONAL GRADING INFORMATION. SEE SHEETS 20-23 FOR CENTERLINE PROFILE INFORMATION.
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6. ADJUST CURBBING ALIGNMENT AT CONNECTIONS TO EXISTING CURB & GUTTER AS REQUIRED FOR A TANGENT ALIGNMENT MATCH.



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RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION #100662

DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSO  
219 MAIN ST #13  
HAINES, AK 99827  
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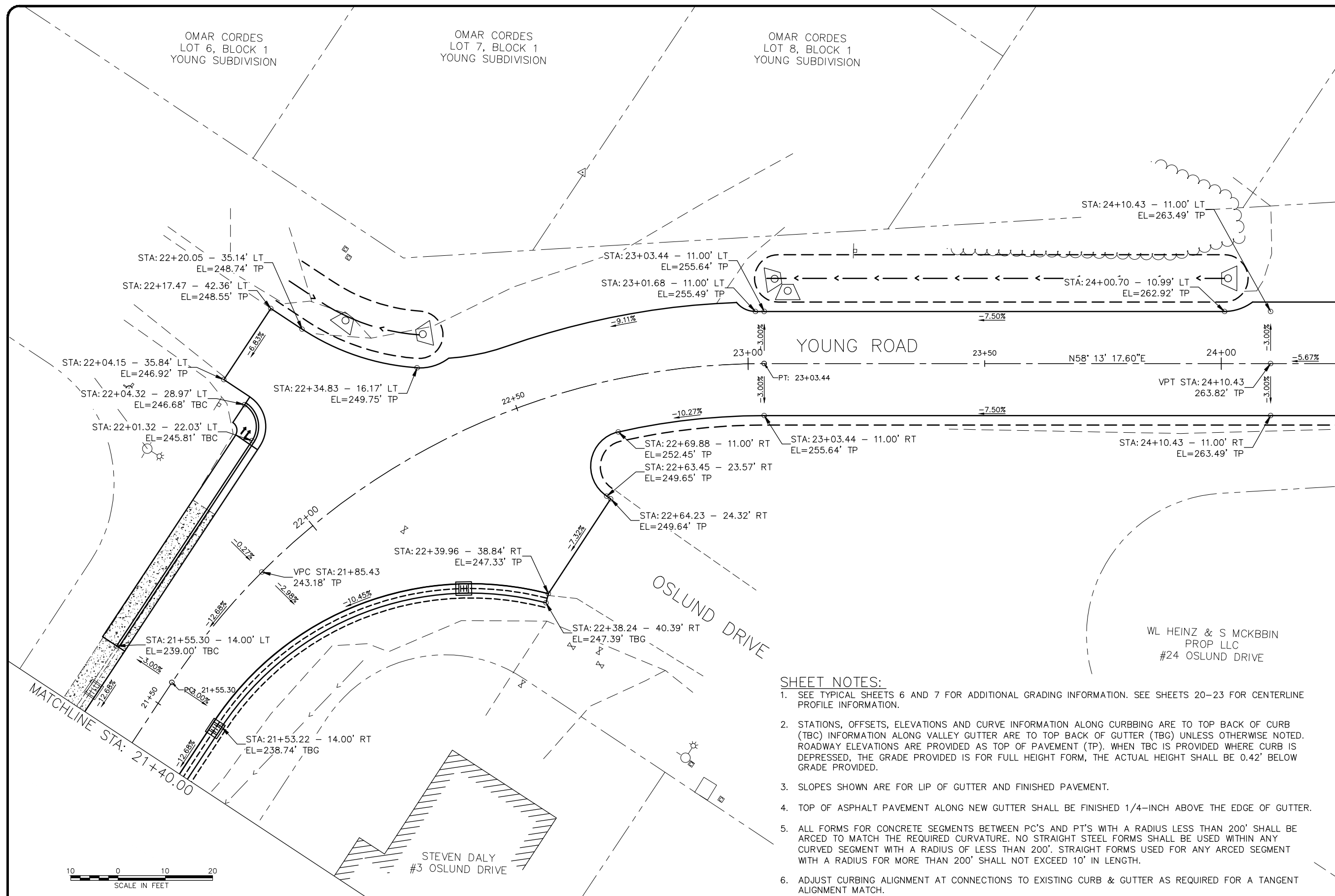


**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

**GRADING - 18+60 TO 21+40**

SHEET NUMBER	27
OF	37



MATCHLINE STA: 24+25.00

**SHEET NOTES:**

- SEE TYPICAL SHEETS 6 AND 7 FOR ADDITIONAL GRADING INFORMATION. SEE SHEETS 20-23 FOR CENTERLINE PROFILE INFORMATION.
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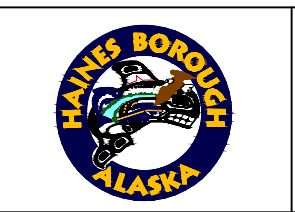
**proHNS LLC**

CERTIFICATE OF AUTHORIZATION  
#100662

DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSKO

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**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

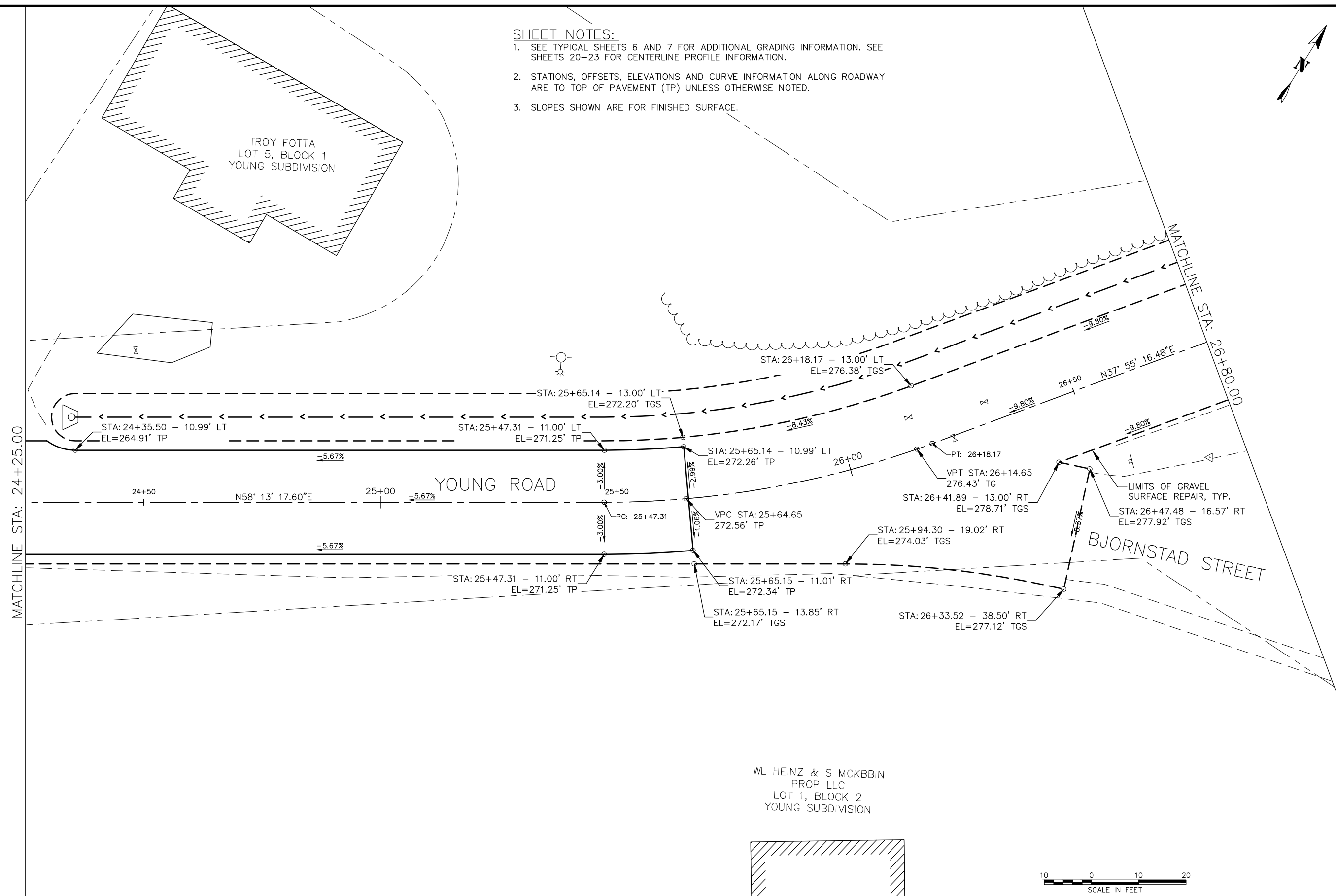
**GRADING - 21+40 TO 24+25**

SHEET NUMBER
<b>28</b>
OF
<b>37</b>

95%  
DRAFT  
FOR REVIEW ONLY

**SHEET NOTES:**

1. SEE TYPICAL SHEETS 6 AND 7 FOR ADDITIONAL GRADING INFORMATION. SEE SHEETS 20-23 FOR CENTERLINE PROFILE INFORMATION.
2. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG ROADWAY ARE TO TOP OF PAVEMENT (TP) UNLESS OTHERWISE NOTED.
3. SLOPES SHOWN ARE FOR FINISHED SURFACE.



WL HEINZ & S MCKBBIN  
PROP LLC  
LOT 1, BLOCK 2  
YOUNG SUBDIVISION



95%  
DRAFT  
FOR REVIEW ONLY

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No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSTJO  
219 MAIN ST #13  
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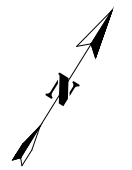
**YOUNG ROAD  
REPAIRS**  
P/W # 00024(435785)

**GRADING - 24+25 TO  
26+80**

SHEET NUMBER
29
OF
37

**SHEET NOTES:**

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2. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG ROADWAY ARE TO TOP OF GRAVEL SURFACE (TGS) UNLESS OTHERWISE NOTED.
3. SLOPES SHOWN ARE FOR FINISHED SURFACE.



YNGVE OLSSON  
#811 YOUNG ROAD



95%  
DRAFT  
FOR REVIEW ONLY

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

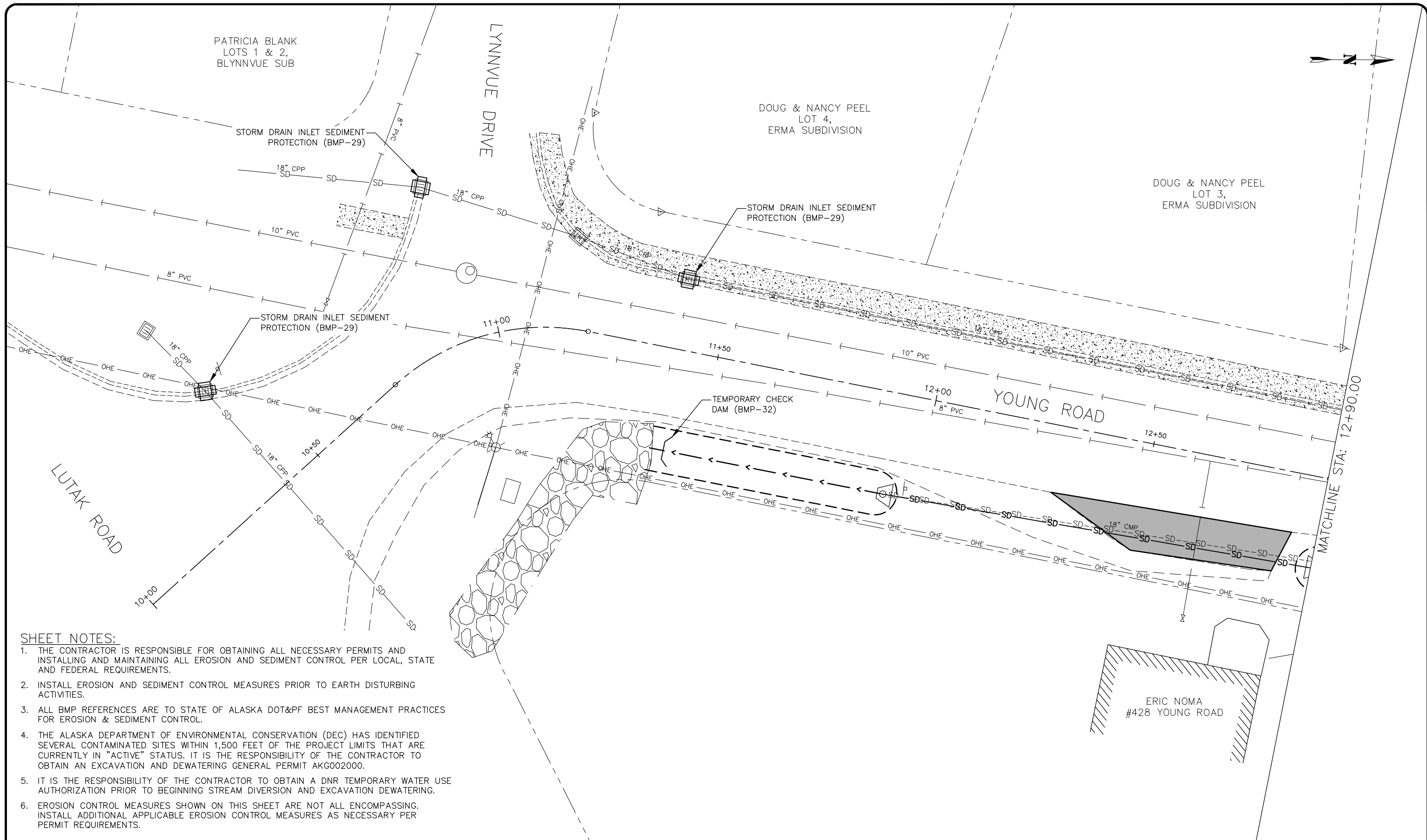
DRAWN BY: E. ROEMELING  
DESIGNED BY: E. ROEMELING  
CHECKED BY: G. GLADSKO  
219 MAIN ST #13  
HAINEES, AK 99827  
1945 ALEX HOLDEN WAY #101  
JUNEAU, AK 99801  
(907) 780-4004  
solutions@proHNS.com  
www.proHNS.com



**YOUNG ROAD REPAIRS**  
P/W # 00024(435785)

**GRADING - 26+80 TO EOP**

SHEET NUMBER	
30	OF
37	



**SHEET NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL PER LOCAL, STATE AND FEDERAL REQUIREMENTS.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO EARTH DISTURBING ACTIVITIES.
3. ALL BMP REFERENCES ARE TO STATE OF ALASKA DOT&PF BEST MANAGEMENT PRACTICES FOR EROSION & SEDIMENT CONTROL.
4. THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) HAS IDENTIFIED SEVERAL CONTAMINATED SITES WITHIN 1,500 FEET OF THE PROJECT LIMITS THAT ARE CURRENTLY IN "ACTIVE" STATUS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION AND DEWATERING GENERAL PERMIT AKG002000.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A DNR TEMPORARY WATER USE AUTHORIZATION PRIOR TO BEGINNING STREAM DIVERSION AND EXCAVATION DEWATERING.
6. EROSION CONTROL MEASURES SHOWN ON THIS SHEET ARE NOT ALL ENCOMPASSING. INSTALL ADDITIONAL APPLICABLE EROSION CONTROL MEASURES AS NECESSARY PER PERMIT REQUIREMENTS.

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



DRAWN BY: E. ROEMELING  
 DESIGNED BY: E. ROEMELING  
 CHECKED BY: G. GLADSJO  
 219 MAIN ST #13  
 HAINES, AK 99827  
 1945 ALEX HOLDEN WAY #101  
 JUNEAU, AK 99801  
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**YOUNG ROAD REPAIRS**

P/W # 00024(435785)

**ESCP - BOP TO 12+90**



SHEET NUMBER	
31	OF
37	

**SHEET NOTES:**

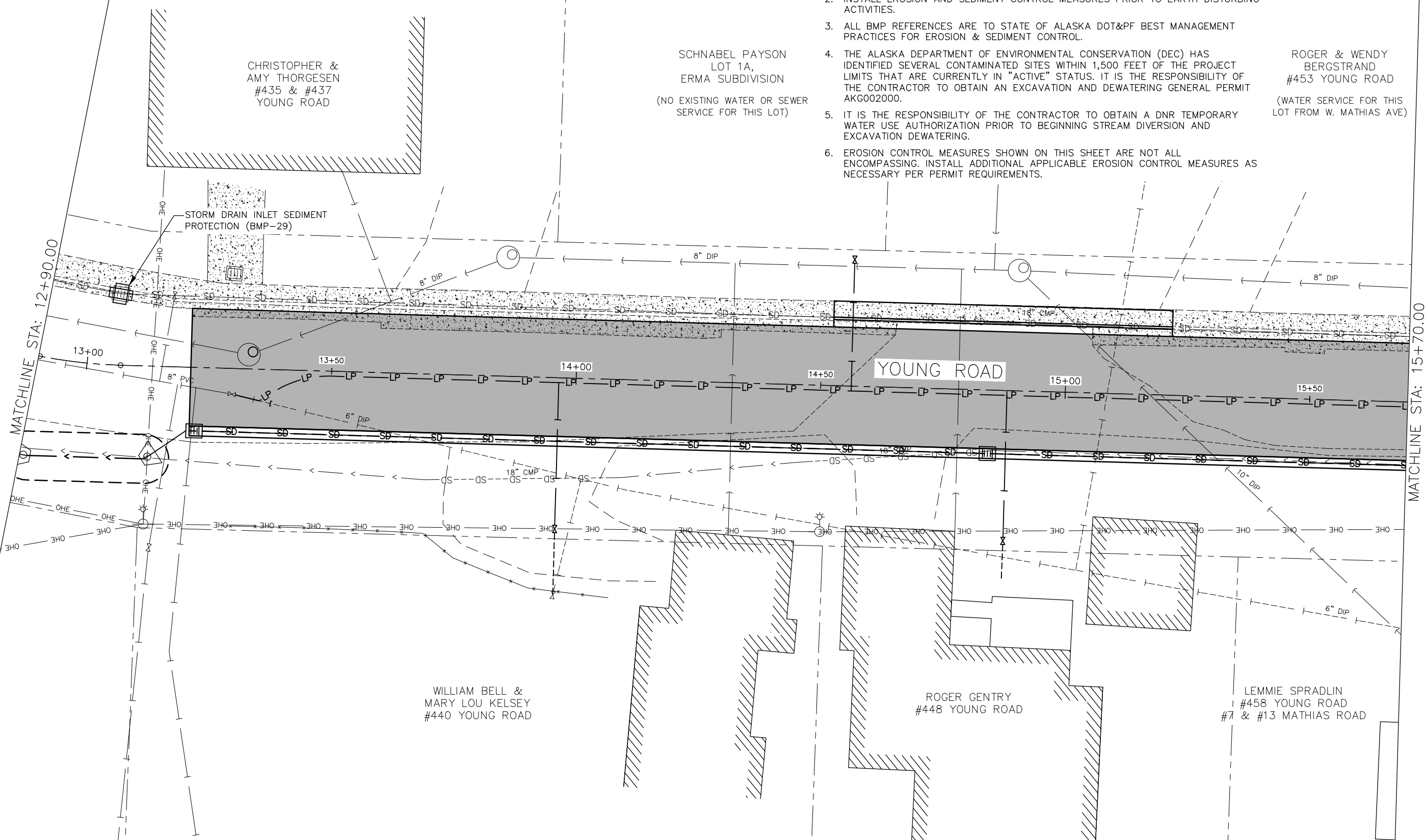
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CHRISTOPHER &  
AMY THORGESEN  
#435 & #437  
YOUNG ROAD

SCHNABEL PAYSON  
LOT 1A,  
ERMA SUBDIVISION  
(NO EXISTING WATER OR SEWER  
SERVICE FOR THIS LOT)

ROGER & WENDY  
BERGSTRAND  
#453 YOUNG ROAD  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)



MATCHLINE STA: 12+90.00

MATCHLINE STA: 15+70.00

WILLIAM BELL &  
MARY LOU KELSEY  
#440 YOUNG ROAD

ROGER GENTRY  
#448 YOUNG ROAD

LEMMIE SPRADLIN  
#458 YOUNG ROAD  
& #13 MATHIAS ROAD

95%  
DRAFT  
FOR REVIEW ONLY

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No.	DATE	DESCRIPTION	BY

**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

DRAWN BY: E. ROEMELING  
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219 MAIN ST #13  
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**YOUNG ROAD  
REPAIRS**

P/W # 00024(435785)

**ESCP - 12+90 TO 15+70**



SHEET NUMBER	32
OF	37



ROGER & WENDY  
BERGSTRAND  
#453 YOUNG ROAD  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)

**SHEET NOTES:**

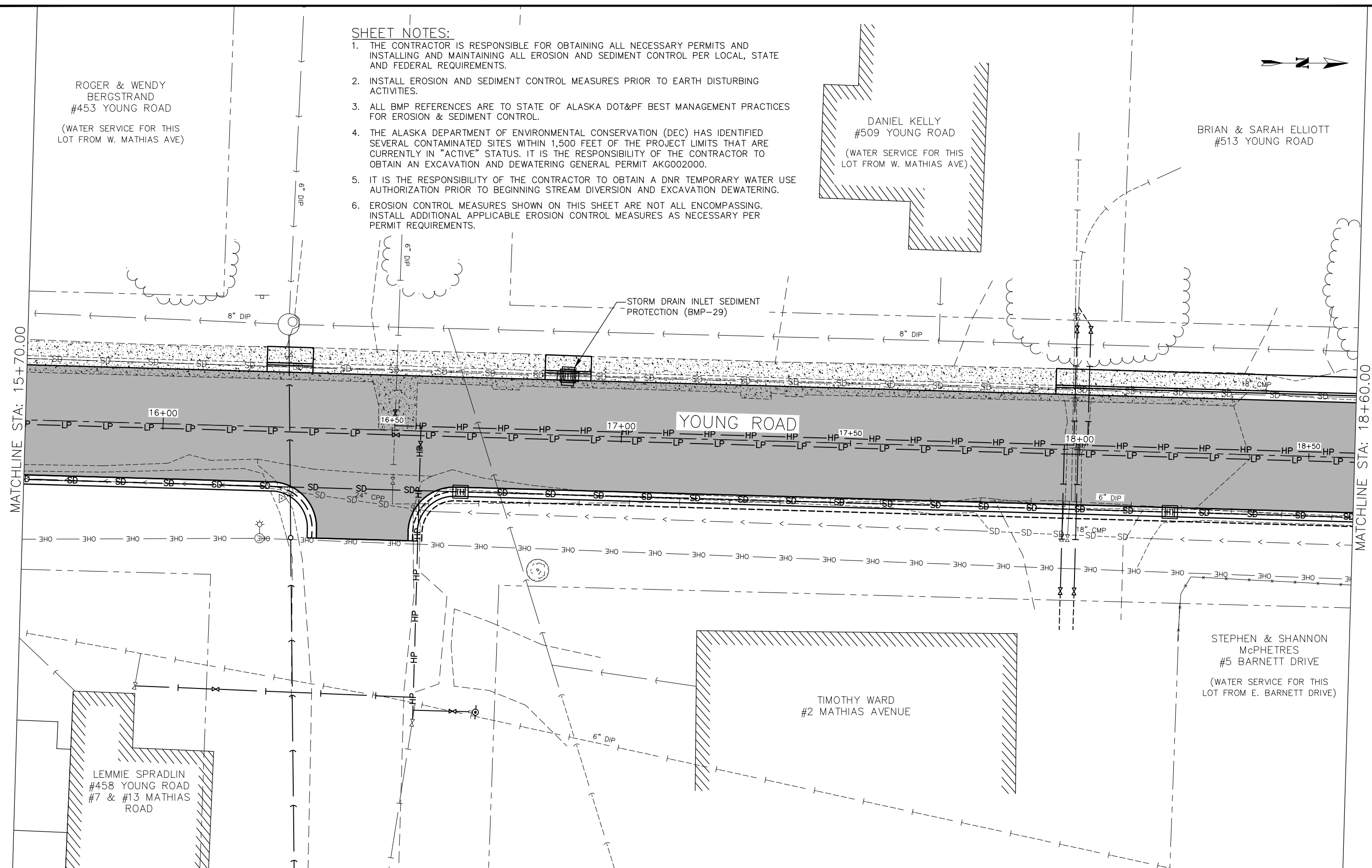
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DANIEL KELLY  
#509 YOUNG ROAD  
(WATER SERVICE FOR THIS  
LOT FROM W. MATHIAS AVE)

BRIAN & SARAH ELLIOTT  
#513 YOUNG ROAD

MATCHLINE STA: 15+70.00

MATCHLINE STA: 18+60.00



LEMMIE SPRADLIN  
#458 YOUNG ROAD  
#7 & #13 MATHIAS ROAD

TIMOTHY WARD  
#2 MATHIAS AVENUE

STEPHEN & SHANNON  
McPHETRES  
#5 BARNETT DRIVE  
(WATER SERVICE FOR THIS  
LOT FROM E. BARNETT DRIVE)

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**YOUNG ROAD  
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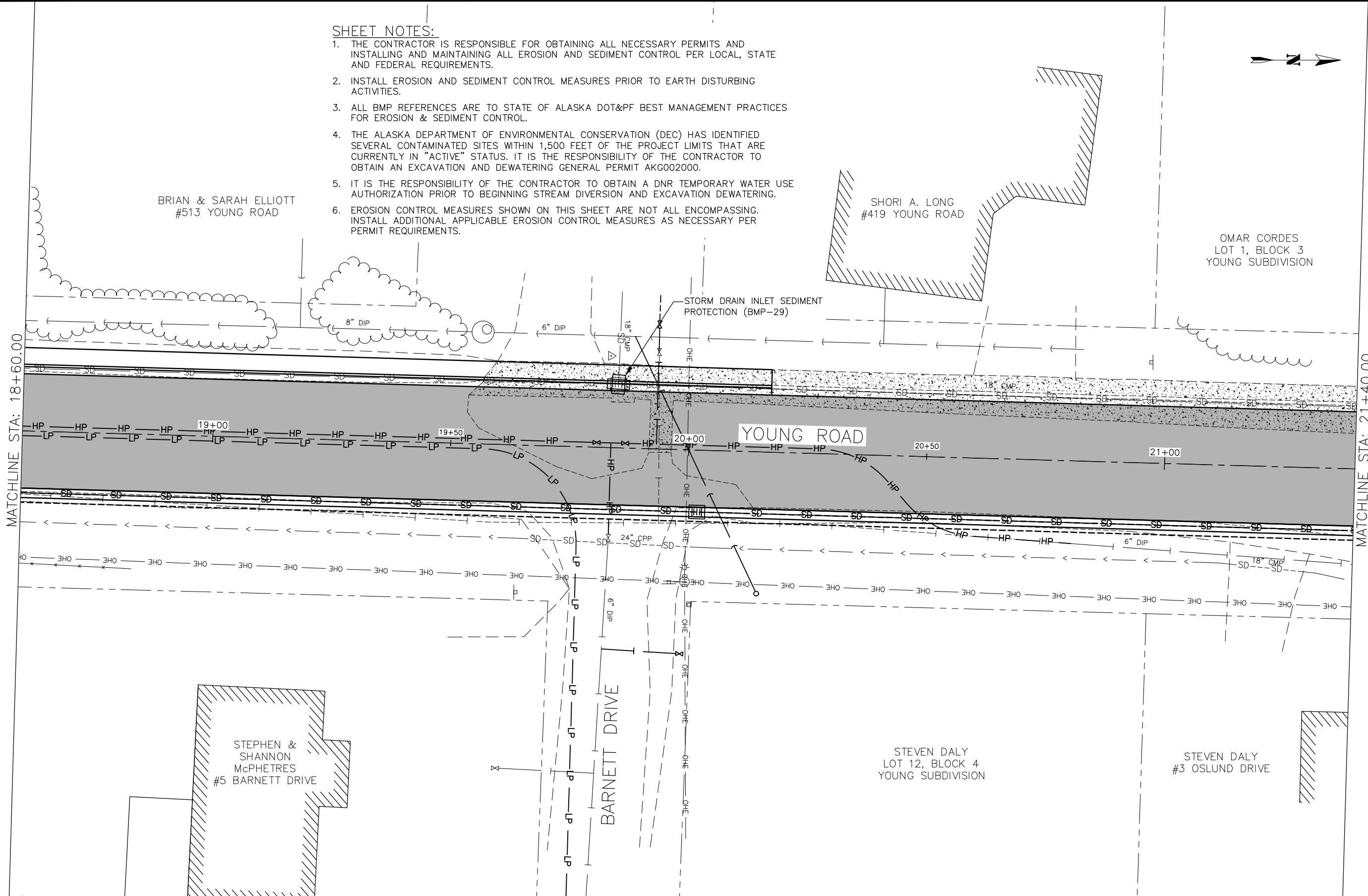
**ESCP - 15+70 TO 18+60**



SHEET NUMBER	33
OF	37

**SHEET NOTES:**

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**YOUNG ROAD  
REPAIRS**

P/W # 00024(435785)

**ESCP - 18+60 TO 21+40**

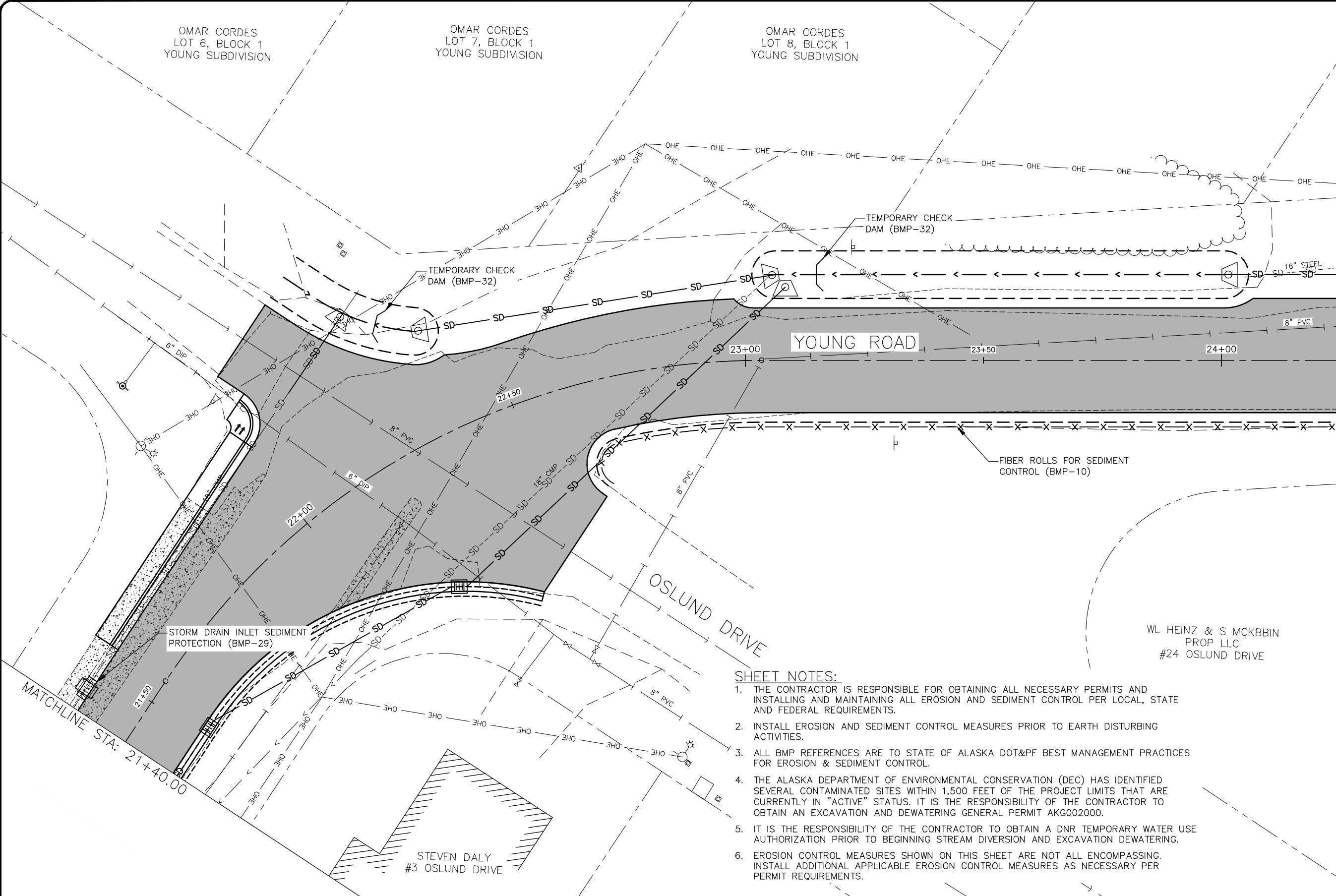


SHEET NUMBER
34
OF
37

OMAR CORDES  
LOT 6, BLOCK 1  
YOUNG SUBDIVISION

OMAR CORDES  
LOT 7, BLOCK 1  
YOUNG SUBDIVISION

OMAR CORDES  
LOT 8, BLOCK 1  
YOUNG SUBDIVISION



MATCHLINE STA: 24+25.00

MATCHLINE STA: 21+40.00

WL HEINZ & S MCKBBIN  
PROP LLC  
#24 OSLUND DRIVE

**SHEET NOTES:**

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6. EROSION CONTROL MEASURES SHOWN ON THIS SHEET ARE NOT ALL ENCOMPASSING. INSTALL ADDITIONAL APPLICABLE EROSION CONTROL MEASURES AS NECESSARY PER PERMIT REQUIREMENTS.



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P/W # 00024(435785)

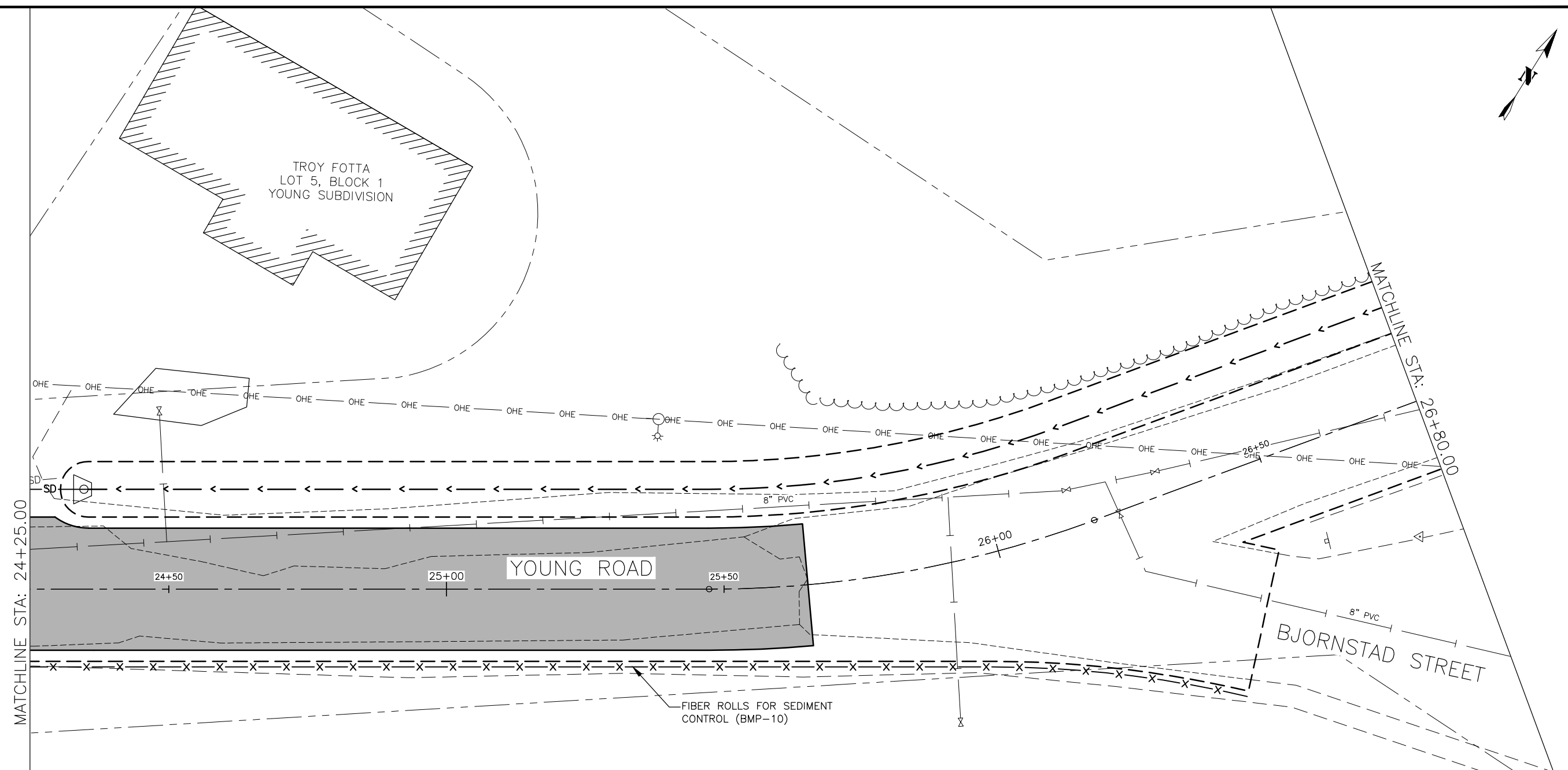
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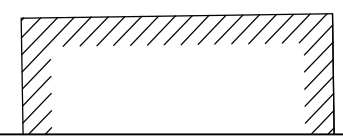
SHEET NUMBER
35
OF
37



**SHEET NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL PER LOCAL, STATE AND FEDERAL REQUIREMENTS.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO EARTH DISTURBING ACTIVITIES.
3. ALL BMP REFERENCES ARE TO STATE OF ALASKA DOT&PF BEST MANAGEMENT PRACTICES FOR EROSION & SEDIMENT CONTROL.
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WL HEINZ & S MCKBBIN  
PROP LLC  
LOT 1, BLOCK 2  
YOUNG SUBDIVISION



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**proHNS LLC**  
CERTIFICATE OF AUTHORIZATION  
#100662

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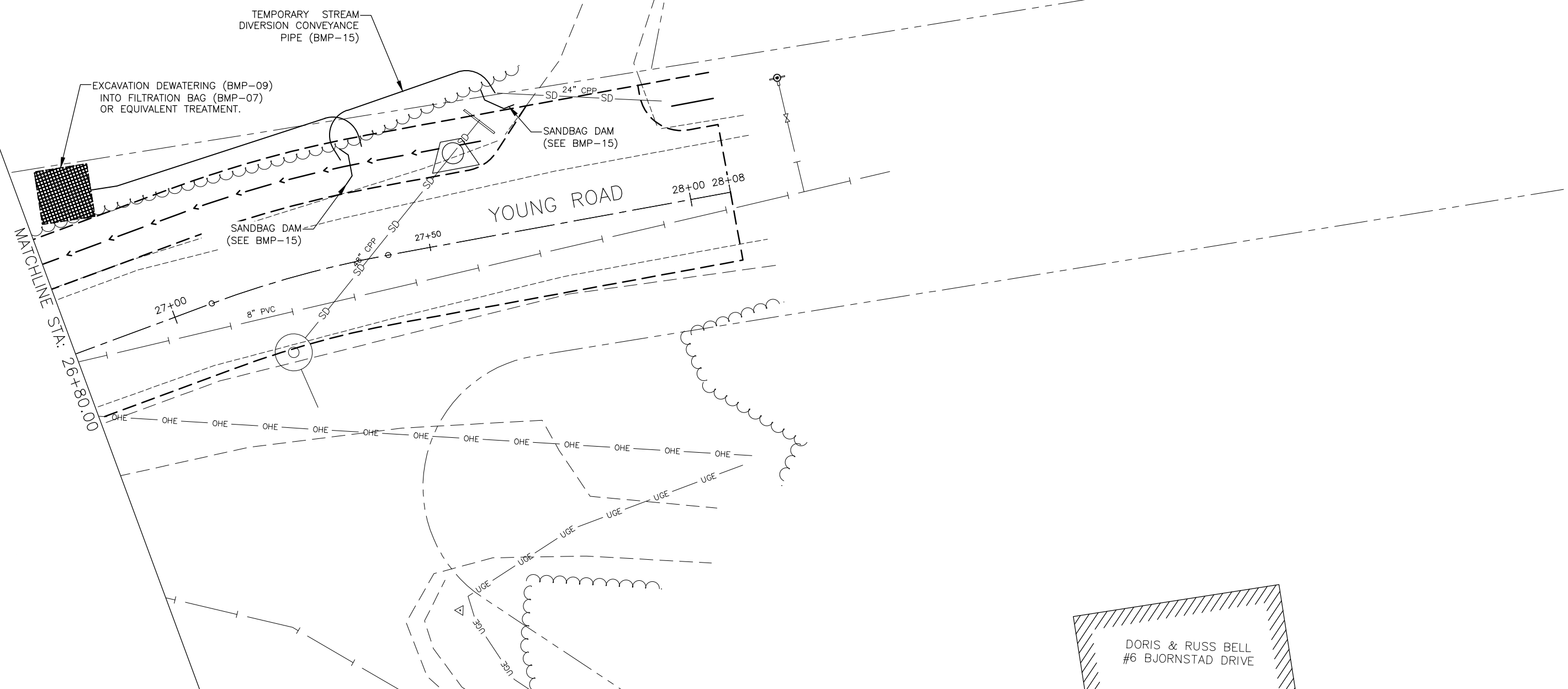


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37	

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YNGVE OLSSON  
#811 YOUNG ROAD



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